CUSTOMER PRINT SET MAN-1	MAN-2					SET MFG.	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X								D-CS-A133-0-1		1	ANALOG SWITCH	
X								B-CS-A601-0-1		1	3 BIT DAC	
X								B-CS-A704-0-1		1	-10V PRECISION PWR. SUPPLY	
X								B-CS-B104-Ø-1		1	INVERTER	
X								B-CS-B105-Ø-1		1	INVERTER	
X								B-CS-B113-Ø-1		1	DIODE GATE	
X								B-CS-B115-Ø-1		1	DIODE GATE	
X								B-CS-B117-Ø-1		1	DIODE GATE	
X								B-CS-B130-Ø-1		1	3 BIT PARITY CIRCUIT	
X								B-CS-B133-Ø-1		1	DIODE GATE	
X								B-CS-B134-Ø-1		1	DIODE GATE	
X								B-CS-B135-Ø-1		1	DIODE GATE	
X								B-CS-B136-Ø-1		1	DIODE GATE	
X								B-CS-B137-Ø-1		1	DIODE GATE	
X								B-CS-B138-Ø-1		1	ADDER	
X								B-CS-B141-Ø-1		1	DIODE GATE	
X								C-CS-B152-Ø-1		1	BINARY TO OCTAL DECODER	
X								B-CS-B155-Ø-1		1	HALF BINARY TO OCTAL DECODER	
X								B-CS-B156-Ø-1		1	HALF BINARY TO OCTAL DECODER	
X								B-CS-B163-Ø-1		1	DIODE GATE	
X								B-CS-B165-Ø-1		1	DIODE INVERTER	
X								C-CS-B166-Ø-1		1	COUNTING GATE	
X								B-CS-B167-Ø-1		1	ADDER GATE	
X								B-CS-B168-Ø-1		1	DIODE GATE	
X								B-CS-B169-Ø-1		1	INVERTER	
X								B-CS-B171-Ø-1		1	DIODE GATE	
X								B-CS-B172-Ø-1		1	DIODE GATE	
X								B-CS-B173-Ø-1		1	DIODE GATE	
X								D-CS-B198-Ø-1		1	PROTECTION COMPARATOR	
X								C-CS-B199-Ø-1		1	FM ADDRESS DECODER	
X								B-CS-B204-Ø-1		1	FOUR FLIP FLOPS	
X								B-CS-B211-Ø-1		1	FLIP FLOP	
X								C-CS-B212-Ø-1		1	DUAL RS FLIP FLOP	
X								B-CS-B213-Ø-1		1	JAM FLIP FLOP	
X								B-CS-B214-Ø-1		1	FOUR FLIP FLOPS	
X								C-CS-B25Ø-Ø-1		1	FM MODULE	
X								B-CS-B301-Ø-1		1	ONE SHOT DELAY	
X								B-CS-B311-Ø-1		1	TAPPED DELAY LINE	
X								B-CS-B312-Ø-1		1	VARIABLE DELAY LINE	
X								B-CS-B360-Ø-1		1	DELAY WITH PULSE AMPLIFIER	
X								B-CS-B4Ø5		1	CRYSTAL CLOCK	
X								B-CS-B41Ø-Ø-1		1	VFO CLOCK	
X								B-CS-B6Ø2-Ø-1		1	10 MC PULSE AMPLIFIER	
X								B-CS-B611-Ø-1		1	PULSE AMPLIFIER	

CUSTOMER PRINT SET MAN-1	MAN-2					SET MFG	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X								B-CS-B681-Ø-1		1	POWER INVERTER	
X								B-CS-B683-Ø-1		1	50 OR BUS DRIVER	
X								C-CS-B684-Ø-1		1	TWO BUS DRIVER	
X								B-CS-B685-Ø-1		1	DIODE GARE DRIVER	
X								D-UA-BCØ1R-Ø-Ø		1	CABLE CARD ASSY	
X								D-UA-BCØ1X-Ø-Ø		1	CABLE ASSY DATA SET	
X								C-UA-BCØ5D-Ø-Ø		1	ASYNCH MODEM INT. CABLE EXT	
X								D-UA-BCØ1Y-Ø-Ø		1	CABLE ASSY (CALLING UNIT)	
X								A-PL-BC1ØV-Ø-Ø		1	EIA TERMINAL CABLE	
X								C-CS-GØØ5-Ø-1		1	4 INPUT DC SCOPE AMPLIFIER	
X								B-CS-GØØ8-Ø-1		1	MASTER SLICE CONTROL	
X								B-CS-GØ1Ø-Ø-1		1	SENSE AMP SELECTOR	
X								B-CS-GØ2Ø-Ø-1		1	SENSE AMP	
X								B-CS-GØ21-Ø-1		1	SENSE AMP	
X								B-CS-GØ22-Ø-1		1	FOUR INPUT SENSE AMP	
X								B-CS-GØ23-Ø-1		1	MASTER SLICE CONTROL	
X								D-CS-GØ5Ø-Ø-1		1	READ AMPLIFIER	
X								C-CS-GØ6Ø-Ø-1		1	TU10 COMPRESSOR	
X								C-CS-GØ62-Ø-1		1	PEAK DETECTOR	
X								C-CS-GØ64-Ø-1		1	SLICER	
X								B-CS-GØ84-Ø-1		1	MAG TAPE READ AMP	
X								D-CS-G[illegible]		1	SENSE INHIBIT CARD	
X								C-CS-G[illegible]		1	MEMORY LEVELS & GATES	
X								C-CS-G2Ø6-Ø-1		1	MEMORY SELECTOR	
X								C-CS-G2Ø7-Ø-1		1	INHIBIT DRIVER	

TITLE		SIZE	CODE	NUMBER	REV
REPLACEMENT SCHEMATIC (MAN 1)	SHEET 3 OF 9	B	DD	PDP1Ø-Ø-RS	

CUSTOMER PRINT SET						MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
MAN-1	MAN-2											
X								C-CS-G212-Ø-1		1	MEMORY COMMON DRIVER	
X								C-CS-G217-Ø-1		1	MEMORY WORD DRIVER	
X								B-CS-G219-Ø-1		1	INHIBIT DRIVER	
X								B-CS-G221-Ø-1		1	MEMORY SELECTOR	
X								D-CS-G226-Ø-1		1	XY DECODER SWITCH	
X								B-CS-G228-Ø-1		1	INHIBIT DRIVER	
X								D-CS-G230-Ø-1		1	X AND Y CURRENT GEN.	
X								B-CS-G287-Ø-1		1	WRITER DRIVER	
X								D-CS-G350-Ø-1		1	HEAD DRIVER	
X								B-CS-G589-Ø-1		1	FILTERED DIFFERENTIAL AMP.	
X								B-CS-G590-Ø-1		1	FILTERED DIFFERENTIAL AMP.	
X								B-CS-G604		1	MEMORY SELECTOR MATRIX	
X								B-CS-G624-Ø-1		1	RESISTOR BOARD	
X								B-CS-G626-Ø-1		1	RESISTOR BOARD	
X								B-CS-G7ØØ-Ø-1		1	100 TERMINATOR	
X								B-CS-G7Ø3-Ø-1		1	100 TERMINATOR	
X								C-CS-G7Ø4-Ø-1		1	2 MA LEVEL TERMINATOR	
X								B-CS-G7Ø5-Ø-1		1	DEC TAPE JUMPER	
X								B-CS-G7Ø6-Ø-1		1	DEC TAPE ATTENUATOR	
X								B-CS-G715-Ø-1		1	TERMINATOR	
X								B-CS-G726-Ø-1		1	BUS CONTROL	
X								B-CS-G737-Ø-1		1	TERMINATOR	
X								B-CS-G742-Ø-1		1	POSITIVE LOGIC JUMPER CARD	
X								D-CS-G766-Ø-1		1	LEVEL TERMINATOR	
X								B-CS-G795-Ø-1		1	CABLE TERMINATOR	
X								C-CS-G796-Ø-1		1	CLAMP LEVEL CABLE CONN	
X								B-CS-G799-Ø-1		1	CABLE CONN	
X								B-CS-G8ØØ-Ø-1		1	CONTROL FOR 739 P.S.	
X								B-CS-G8Ø5-Ø-1		1	NEGATIVE REGULATOR	
X								B-CS-G81Ø-Ø-1		1	6V REGULATOR CONTROL	
X								B-CS-G816-Ø-1		1	REGULATOR CONTROL	
X								C-CS-G826-Ø-1		1	REGULATOR CONTROL	
X								C-CS-G828-Ø-1		1	6V REGULATOR CONTROL	
X								D-CS-G830-Ø-1		1	+5V REGULATOR	
X								C-CS-G831-Ø-1		2	6 BIT DA COMP. & SWITCH	
X								B-CS-G847-Ø-1		1	DUAL MOTOR VOLT. CONTROL	
X								D-CS-G848-Ø-1		1	MOTOR CONTROL	
X								B-CS-G85Ø-Ø-1		1	SCR MOTOR DRIVER	
X								B-CS-G851-Ø-1		1	RELAY	
X								B-CS-G853-Ø-1		1	MOTION & SELECT. CIRCUIT	
X								B-CS-G854-Ø-1		1	TELEGRAPH LINE CIRCUIT	
X								B-CS-G859-Ø-1		1	CLOCK & REGULATOR	
X								C-CS-G882-Ø-1		1	MANCHESTER READER/WRITER	

CUSTOMER PRINT SET						MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
MAN-1	MAN-2											
X								B-CS-G888-Ø-1		1	MANCHESTER READER/WRITER	
X								B-CS-G9Ø3-Ø-1		1	CLOCK ACCELERATOR	
X								C-CS-G913-Ø-1		1	CLOCK CONTROL	
X								D-CS-G932-Ø-1		1	TU10 CAPSTRAN SERVO PREAMP	
X								C-CS-G933-Ø-1		1	REEL MOTOR AMPLIFIER	
X								B-CS-G998-Ø-1		1	CURRENT MEAS. EXTENDER	
X								D-CS-G7ØØØ-Ø-1		1	I/O BUS TERMINATOR #1	
X								D-CS-G7ØØ1-Ø-1		1	I/O BUS TERMINATOR #2	
X								D-CS-G7ØØ2-Ø-1		1	I/O BUS TERMINATOR #3	
X								D-CS-G7ØØ3-Ø-1		1	I/O BUS TERMINATOR #1	
X								D-CS-G7ØØ4-Ø-1		1	I/O BUS TERMINATOR #2	
X								D-CS-G7ØØ5-Ø-1		1	I/O BUS TERMINATOR #3	
X								D-CS-G7ØØ6-Ø-1		1	I/O BUS TERMINATOR #4	
X								D-CS-G934Ø-Ø-1		1	BRAKE ACTUATOR	
X								D-CS-G9341-Ø-1		1	TU1Ø BRAKE ACTUATOR	
X												
X								B-CS-H701		1	POWER SUPPLY	
X								B-CS-H701A		1	POWER SUPPLY	
X								D-UA-H704-C-Ø		1	POWER SUPPLY (115 VAC)	
X								D-UA-H7Ø4-H-Ø		1	POWER SUPPLY (230 VAC)	
X								D-CS-H71Ø-Ø-1		1	POWER SUPPLY	
X								D-CS-3009282-0-0		1	H716 P.S.	
X								C-CS-H723-Ø-1		1	+8V 40 AMP PWR. SUPPLY	
X								C-CS-H725-Ø-1		1	+15V 20 AMP PWR. SUPPLY	
X								D-CS-H730-Ø-1		1	POWER SUPPLY	
X								C-CS-H732-Ø-1		1	POWER SUPPLY	
X								B-DD-H867-Ø		1	I/O BUS TERMINATOR	
X								B-CS-KØØ3-Ø-1		1	GATE EXPANDER	
X								B-CS-KØ26-Ø-1		1	GATE EXPANDER	
X								B-CS-K113-Ø-1		1	INVERTING GATE	
X								C-CS-K138-Ø-1		1	EIGHT INVERTERS	

TITLE		SIZE	CODE	NUMBER	REV
REPLACEMENT SCHEMATICS (MAN 1)	SHEET 4 OF 9	B	DD	PDP1Ø-Ø-RS	

DEC - 16- (335)-1062-20-R272

CUSTOMER PRINT SET						MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
MAN-1	MAN-2	1										
X								B-CS-K271-Ø-1		1	SET RESET MEMORY	
X								B-CS-K3Ø3-Ø-1		1	THREE TIMERS	
X								C-CS-K522-YA-1		1	COMPARATOR	
X								C-CS-K614-Ø-1		1	ISOLATED AC SWITCH	
X								C-CS-K652-Ø-1		1	DC DRIVERS	
X								C-CS-K683-Ø-1		1	DRIVER	
X								B-CS-K731-Ø-1		1	1 AMP REGULATOR	
X								B-CS-K732-Ø-1		1	SLAVE REGULATOR	

CUSTOMER PRINT SET						MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.

TITLE		SIZE	CODE	NUMBER	REV
REPLACEMENT SCHEMATICS (MAN 1)	SHEET 5 OF 9	B	DD	PDP1Ø-Ø-RS	

CUSTOMER PRINT SET										
MAN-1	MAN-2						MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X									C-CS-G212-Ø-1		1	MEMORY COMMON DRIVER	
X									C-CS-G217-Ø-1		1	MEMORY WORD DRIVER	
X									B-CS-G219-Ø-1		1	INHIBIT DRIVER	
X									B-CS-G221-Ø-1		1	MEMORY SELECTOR	
X									D-CS-G226-Ø-1		1	XY DECODER SWITCH	
X									B-CS-G228-Ø-1		1	INHIBIT DRIVER	
X									D-CS-G230-Ø-1		1	X AND Y CURRENT GEN.	
X									B-CS-G287-Ø-1		1	WRITER DRIVER	
X									D-CS-G350-Ø-1		1	HEAD DRIVER	
X									B-CS-G589-Ø-1		1	FILTERED DIFFERENTIAL AMP.	
X									B-CS-G590-Ø-1		1	FILTERED DIFFERENTIAL AMP.	
X									B-CS-G604		1	MEMORY SELECTOR MATRIX	
X									B-CS-G624-Ø-1		1	RESISTOR BOARD	
X									B-CS-G626-Ø-1		1	RESISTOR BOARD	
X									B-CS-G7ØØ-Ø-1		1	100 TERMINATOR	
X									B-CS-G7Ø3-Ø-1		1	100 TERMINATOR	
X									C-CS-G7Ø4-Ø-1		1	2 MA LEVEL TERMINATOR	
X									B-CS-G7Ø5-Ø-1		1	DEC TAPE JUMPER	
X									B-CS-G7Ø6-Ø-1		1	DEC TAPE ATTENUATOR	
X									B-CS-G715-Ø-1		1	TERMINATOR	
X									B-CS-G726-Ø-1		1	BUS CONTROL	
X									B-CS-G737-Ø-1		1	TERMINATOR	
X									B-CS-G742-Ø-1		1	POSITIVE LOGIC JUMPER CARD	
X									D-CS-G766-Ø-1		1	LEVEL TERMINATOR	
X									B-CS-G795-Ø-1		1	CABLE TERMINATOR	
X									C-CS-G796-Ø-1		1	CLAMP LEVEL CABLE CONN	
X									B-CS-G799-Ø-1		1	CABLE CONN	
X									B-CS-G8ØØ-Ø-1		1	CONTROL FOR 739 P.S.	
X									B-CS-G8Ø5-Ø-1		1	NEGATIVE REGULATOR	
X									B-CS-G81Ø-Ø-1		1	6V REGULATOR CONTROL	
X									B-CS-G816-Ø-1		1	REGULATOR CONTROL	
X									C-CS-G826-Ø-1		1	REGULATOR CONTROL	
X									C-CS-G828-Ø-1		1	6V REGULATOR CONTROL	
X									D-CS-G830-Ø-1		1	+5V REGULATOR	
X									C-CS-G831-Ø-1		2	6 BIT DA COMP. & SWITCH	
X									B-CS-G847-Ø-1		1	DUAL MOTOR VOLT. CONTROL	
X									D-CS-G848-Ø-1		1	MOTOR CONTROL	
X									B-CS-G85Ø-Ø-1		1	SCR MOTOR DRIVER	
X									B-CS-G851-Ø-1		1	RELAY	
X									B-CS-G853-Ø-1		1	MOTION & SELECT. CIRCUIT	
X									B-CS-G854-Ø-1		1	TELEGRAPH LINE CIRCUIT	
X									B-CS-G859-Ø-1		1	CLOCK & REGULATOR	
X									C-CS-G882-Ø-1		1	MANCHESTER READER/WRITER	

CUSTOMER PRINT SET										
MAN-1	MAN-2						MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
X									B-CS-G888-Ø-1		1	MANCHESTER READER/WRITER	
X									B-CS-G9Ø3-Ø-1		1	CLOCK ACCELERATOR	
X									C-CS-G913-Ø-1		1	CLOCK CONTROL	
X									D-CS-G932-Ø-1		1	TU10 CAPSTRAN SERVO PREAMP	
X									C-CS-G933-Ø-1		1	REEL MOTOR AMPLIFIER	
X									B-CS-G998-Ø-1		1	CURRENT MEAS. EXTENDER	
X									D-CS-G7ØØØ-Ø-1		1	I/O BUS TERMINATOR #1	
X									D-CS-G7ØØ1-Ø-1		1	I/O BUS TERMINATOR #2	
X									D-CS-G7ØØ2-Ø-1		1	I/O BUS TERMINATOR #3	
X									D-CS-G7ØØ3-Ø-1		1	I/O BUS TERMINATOR #1	
X									D-CS-G7ØØ4-Ø-1		1	I/O BUS TERMINATOR #2	
X									D-CS-G7ØØ5-Ø-1		1	I/O BUS TERMINATOR #3	
X									D-CS-G7ØØ6-Ø-1		1	I/O BUS TERMINATOR #4	
X									D-CS-G934Ø-Ø-1		1	BRAKE ACTUATOR	
X									D-CS-G9341-Ø-1		1	TU1Ø BRAKE ACTUATOR	
X													
X									B-CS-H701		1	POWER SUPPLY	
X									B-CS-H701A		1	POWER SUPPLY	
X									D-UA-H704-C-Ø		1	POWER SUPPLY (115 VAC)	
X									D-UA-H7Ø4-H-Ø		1	POWER SUPPLY (230 VAC)	
X									D-CS-H71Ø-Ø-1		1	POWER SUPPLY	
X									D-CS-3009282-0-0		1	H716 P.S.	
X									C-CS-H723-Ø-1		1	+8V 40 AMP PWR. SUPPLY	
X									C-CS-H725-Ø-1		1	+15V 20 AMP PWR. SUPPLY	
X									D-CS-H730-Ø-1		1	POWER SUPPLY	
X									C-CS-H732-Ø-1		1	POWER SUPPLY	
X									B-DD-H867-Ø		1	I/O BUS TERMINATOR	
X									B-CS-KØØ3-Ø-1		1	GATE EXPANDER	
X									B-CS-KØ26-Ø-1		1	GATE EXPANDER	
X									B-CS-K113-Ø-1		1	INVERTING GATE	
X									C-CS-K138-Ø-1		1	EIGHT INVERTERS	

TITLE		SIZE	CODE	NUMBER	REV
REPLACEMENT SCHEMATICS (MAN 1)	SHEET 4 OF 9	8	DD	PDP1Ø-Ø-RS	

CUSTOMER PRINT SET						SET						
MAN-1	MAN-2					MFG.	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
	x							B-CS-M5Ø1-Ø-1		1	SCHMITT TRIGGER	
	x							B-CS-M5Ø2-Ø-1		1	NEGATIVE INPUT	
	x							B-CS-M5Ø6-Ø-1		1	NEGATIVE INPUT CONVERTER	
	x							C-CS-M5Ø7-Ø-1		1	BUS CONVERTER (OBSOLETE)	
	X							C-CS-M5Ø8-Ø-1		1	BUS CONVERTER	
	x							C-CS-M511-Ø-1		1	POSITIVE BUS RECEIVER	
	x							D-CS-M514-Ø-1		1	BUS TRANSCIEVER	
	x							B-CS-M516-Ø-1		1	POSITIVE BUS RECEIVER	
	x							C-CS-M517-Ø-1		1	BUS CONVERTER	
	x							C-CS-M531-Ø-1		1	NEGATIVE BUS CONVERTER	
	x							D-CS-M564-Ø-1		1	-3V I/O BUS RECEIVER	
	x							D-CS-M565-Ø-1		1	MEMORY BUS RECIEVER	
	x							D-CS-M592-Ø-1		1	I.O. DEVICE SELECT	
	x							C-CS-M6Ø3-Ø-1		1	P A MODULE	
	x							C-CS-M612-Ø-1		1	POWER DRIVER MODULE	
	x							B-CS-M617-Ø-1		1	6-4 INPUT NOR BUFFERS	
	x							C-CS-M623-Ø-1		1	BUS DRIVER	
	x							B-CS-M627-Ø-1		1	POWER AMPLIFIER	
	x							C-CS-M629-Ø-1		1	BUS DRIVERS	
	x							B-CS-M65Ø-Ø-1		1	NEG. OUTPUT CONVERTER	
	x							C-CS-M651-Ø-1		1	NEG. OUTPUT CONVERTER	
	x							B-CS-M66Ø-Ø-1		1	POSITIVE LEVEL DRIVER	
	x							B-CS-M661-Ø-1		1	POSITIVE LEVEL DRIVER	
	x							D-CS-M663-Ø-1		1	50 OHM "OR" BUS DRIVER	
	x							C-CS-M664-Ø-1		1	10 BUS DRIVER	
	x							D-CS-M665-Ø-1		1	MEMORY BUS TRANSMITTER	
	x							C-CS-M666-Ø-1		1	I O BUS RESET	
	x							C-CS-M7ØØ-Ø-1		1	MANUAL TIMING GENERATOR	
	x							B-CS-M7Ø3-Ø-1		1	POWER FAIL	
	x							C-CS-M7Ø6-Ø-1		1	TELETYPE RECEIVER	
	x							C-CS-M7Ø7-Ø-1		1	TELETYPE TRANSMITTER	
	x							C-CS-M7Ø8-Ø-1		1	CLOCK CONTROL	
	x							D-CS-M7Ø9-Ø-1		1	CLOCK COUNTER	
	x							D-CS-M71Ø-Ø-1		1	PUNCH CONTROL	
	x							C-CS-M714-Ø-1		1	CONTROL FOR CR 81	
	x							C-CS-M715-Ø-1		1	READER CLOCK	
	x							C-CS-M716-Ø-1		1	CONTROL FOR CR 81	
	x							B-CS-M72Ø-Ø-1		1	MEMORY DETECTION	
	x							C-CS-M75Ø-Ø-1		1	LINE I/O CONTROL	
	x							D-CS-M751-Ø-1		1	LINE REGISTER	
	x							D-CS-M752-Ø-1		1	INSTRUCTION DECODER	
	x							D-CS-M753-Ø-1		1	ASYNC MEDEM LINE CONTROL	
	x							D-CS-M763-Ø-1		1	WRITER BUFFER	
	x							C-CS-M765-Ø-1		1	READ BUFFER	

CUSTOMER PRINT SET						SET						
MAN-1	MAN-2					MFG	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
	x							C-CS-M767-Ø-1		1	CLOCK & SKEW DELAY	
	x							D-CS-M768-Ø-1		1	DELAY TRANSMITTER	
	x							D-CS-M769-Ø-1		1	FUNCTION CONTROL	
	x							B-CS-M783-Ø-1		1	UNIBUS DRIVERS	
	x							B-CS-M784-Ø-1		1	UNIBUS RECEIVERS	
	x							B-CS-M785-Ø-1		1	UNIBUS TRANSCEIVERS	
	x							B-CS-M85Ø-Ø-1		1	CONVERTER & CABLE CONN	
	X							D-CS-M89Ø-Ø-1		2	MOTION CONTROL	
	x							B-CS-M9Ø1-Ø-1		1	FLEXPRINT CABLE CONN	
	x							B-CS-M9Ø2-YA-1		1	RESISTOR TERMINATOR	
	x							E-CS-M9Ø2-YB-1		1	RESISTOR TERMINATOR	
	x							B-CS-M9Ø3-Ø-1		1	CONNECTOR FLEXPRINT	
	x							B-CS-M9Ø4-Ø-1		1	CONNECTOR COAXIAL	
	x							B-CS-M9Ø6-Ø-1		1	CABLE TERMINATOR	
	x							B-CS-m9Ø7-Ø-1		1	DIODE CLAMP	
	x							B-CS-M9Ø8-Ø-1		1	CONNECTOR MODULE	
	x							B-CS-M919-Ø-1		1	BUS CONNECTOR	
	x							B-CS-M921-Ø-1		1	DIODE CODE SEL. JUMPER BD.	
	x							B-CS-M922-Ø-1		1	FLEX PRINT CABLE CONN.	
	x							B-CS-M926-Ø-1		1	FLEX PRINT CABLE CARD	
	x							C-CS-M931-Ø-1		1	15 TERM. WITH IND. RES.	
	x							B-CS-M941-Ø-1		1	JUMPER EXTENDER BOARD	
	x							C-CS-M947-Ø-1		1	KI1Ø INDICATOR DRIVER	
	x							C-CS-M948-Ø-1		1	KI1Ø INDICATOR BOARD	
	x							C-CS-M949-Ø-1		1	INDICATOR CABLE CONN.	
	x							D-CS-M95Ø-Ø-1		1	INDICATOR CABLE CONN.	
	x							C-CS-M952-Ø-1		1	27 LEVEL TERMINATOR	
	x							C-CS-M956-Ø-1		1	18 TERMINATORS	
	x							B-CS-M957-Ø-1		1	CABLE CONNECTOR	
	x							C-CS-M969-Ø-1		1	24 LEVEL TERMINATOR	
	x							D-CS-M97Ø-Ø-1		1	CABLE INTERFACE BD.	
	x							D-CS-M3Ø7Ø-Ø-1		1	INTERGRATING ONE SHOT	

TITLE		SIZE	CODE	NUMBER	REV
REPLACEMENT SCHEMATICS (MANUAL2	SHEET 7 OF 9	B	DD	PDP1Ø-Ø-RS	

DRB 108

DEC - 16- (335)-1062-20-B272

CUSTOMER PRINT SET						MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
MAN-1	MAN-2			–								
	x							D-BS-PDP1Ø-Ø-LE1	*	1	PDP-1Ø M-SERIES LOGIC ELE #1	
	x							D-BS-PDP1Ø-Ø-LE2	*	1	PDP-1Ø M-SERIES LOGIC ELE #2	
	x							D-BS-PDP1Ø-Ø-LE3	*	1	PDP-1Ø M-SERIES LOGIC ELE #3	
	x							D-BS-PDP1Ø-Ø-LE4	*	1	PDP-1Ø M-SERIES LOGIC ELE #4	
	x							D-BS-PDP1Ø-Ø-LE5	*	1	PDP-1Ø M-SERIES LOGIC ELE #5	
	x							D-BS-PDP1Ø-Ø-LE6	*	1	PDP-1Ø M-SERIES LOGIC ELE #6	
	x							D-BS-PDP1Ø-Ø-LE7	*	1	PDP-1Ø M-SERIES LOGIC ELE #7	
	x							D-BS-PDP1Ø-Ø-LE8	*	1	PDP-1Ø M-SERIES LOGIC ELE #8	
	x							B-CS-MØØ2-Ø-1		1	15 LOADS	
	X							B-CS-MØ4Ø-Ø-1		1	SOLENOID DRIVERS	
	x							B-CS-MØ5Ø-Ø-1		1	50 MA IND. & RELAY DRIVERS	
	x							B-CS-MØ51-Ø-1		1	LEVEL CONVERTER	
	x							C-CS-M1ØØ-Ø-1		1	BUS DATA INTERFACE	
	x							B-CS-M1Ø1-Ø-1		1	BUS DATA INTERFACE	
	x							B-CS-M1Ø3-Ø-1		1	DEVICE SELECTOR	
	x							C-CS-M1Ø5-Ø-1		1	ADDRESS SELECTOR	
	x							B-CS-M111-Ø-1		1	INVERTER	
	x							B-CS-M112-Ø-1		1	NOR GATE	
	x							B-CS-M113-Ø-1		1	10-2 INPUT NAND GATES	
	x							B-CS-M115-Ø-1		1	8-3 NAND GATES	
	x							B-CS-M117-Ø-1		1	6-4 NAND GATES	
	x							B-CS-M119-Ø-1		1	3-8 INPUT NAND GATES	
	x							B-CS-M121-Ø-1		1	AND NOR GATES	
	x							C-CS-M126-Ø-1		1	SIX 2-2 AND NOR GATES	
	x							C-CS-M128-Ø-1		1	FOUR AND NOR GATES	
	x							D-CS-M13Ø-Ø-1		1	PARITY CHECKERS AND GATES	
	x							B-CS-M139-Ø-1		1	3-8 INPUT NAND GATE	
	x							B-CS-M141-Ø-1		1	AND/NOR GATES	
	x							D-CS-M142-Ø-1		2	FOUR BIT ADDER	
	x							B-CS-M143-Ø-1		1	NAND GATE	
	x							C-CS-M145-Ø-1		1	SEVEN 3 INPUT NAND GATES	
	x							C-CS-M147-Ø-1		1	FIVE 4 INPUT NAND GATES	
	x							C-CS-M151-Ø-1		1	2 DECODERS	
	x							C-CS-M152-Ø-1		1	2 DECODERS	
	x							B-CS-M16Ø-Ø-1		1	GATE MODULE	
	x							B-CS-M162-Ø-1		1	PARITY CIRCUIT	
	x							B-CS-M163-Ø-1		1	DUAL BINARY TO OCTAL DECODER	
	x							C-CS-M165-Ø-1		1	8 BUFFERS	
	x							D-CS-M166-Ø-1		1	+1 GATE	
	x							C-CS-M17Ø-Ø-1		1	8 WIDE AND - NOR	
	x							C-CS-M171-Ø-1		1	THREE 2-2-2-3 AND NOR GATES	

CUSTOMER PRINT SET						MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
MAN-1	MAN-2											
	x							C-CS-M172-Ø-1		1	2x9 DATA MIXER	
	x							C-CS-M173-Ø-1		1	10 AND GATES	
	x							D-CS-M174-Ø-1		1	4x9 DATA MIXER	
	x							C-CS-M175-Ø-1		1	SEVEN 3 INPUT AND GATES	
	x							C-CS-M177-Ø-1		1	FIVE 4 INPUT AND GATES	
	x							C-CS-M178-Ø-1		1	8 x 6 DATA MIXER	
	x							C-CS-M181-Ø-1		1	THREE 2-2-2-3 AND - OR GATES	
	x							B-CS-M2Ø3-Ø-1		1	SET RESET FUP FLOP MODULES	
	x							B-CS-M2Ø6-Ø-1		1	SIX FLIP FLOPS	
	x							C-CS-M211-Ø-1		1	BINARY UP DOWN COUNTER	
	x							B-CS-M216-Ø-1		1	SIX FLIP FLOPS	
	x							D-CS-M22Ø-Ø-1		1	MAJOR REGISTERS	
	x							C-CS-M241-Ø-1		1	6 TYPE D FLIP FLOPS	
	x							D-CS-M243-Ø-1		1	8 TYPE D FLIP FLOPS	
	x							C-CS-M246-Ø-1		1	5 D FLIP FLOPS	
	x							C-CS-M247-Ø-1		1	CONSOLE SW FLIP FLOPS	
	x							C-CS-M25Ø-Ø-1		1	4 BIT 16 WORD MEMORY	
	x							C-CS-M253-Ø-1		1	12 BIT 16 WORD MEMORY	
	x							D-CS-M26Ø-Ø-1		1	12 BIT 16 WORD MEM. CELL	
	x							B-CS-M3Ø2-Ø-1		1	ONE SHOT DELAY	
	x							C-CS-M3Ø4-Ø-1		1	ONE SHOT DELAY	
	x							B-CS-M3Ø7-Ø-1		1	INTERGRATING ONE SHOT	
	x							D-CS-M3Ø8-Ø-1		1	INTERGRATING ONE SHOT	
	x							B-CS-M31Ø-Ø-1		1	DELAY LINE	
	x							C-CS-M321-Ø-1		1	TRIPPED DELAY LINE	
	x							B-CS-M36Ø-Ø-1		1	VARIABLE DELAY	
	x							C-CS-M362-Ø-1		1	LATCHED REGISTER DRIVER	
	x							C-CS-M363-Ø-1		1	VARIABLE DELAY	
	x							B-CS-M4Ø1-Ø-1		1	CLOCK	
	x							D-CS-M4Ø5-Ø-1		1	CRYSTAL CLOCK	
	x							B-CS-M41Ø-Ø-1		1	READ CLOCK	
	x							B-CS-M452-Ø-1		1	VARIABLE CLOCK	

TITLE	SIZE	CODE	NUMBER	REV
REPLACEMENT SCHEMATICS (MAN 2) SHEET 6 OF 9	B	DD	PDP1Ø-Ø-RS	

CUSTOMER PRINT SET MAN-1	CUSTOMER PRINT SET MAN-2	MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
	x			B-CS-W3ØØ-Ø-1		1	DELAY LINE	
	x			C-CS-W3Ø1-Ø-1		1	DELAY LINE	
	x			B-CS-W5ØØ-Ø-1		1	HIGH IMPENDENCE FOLLOWER	
	x			B-CS-W5Ø1-Ø-1		1	SCHMITT TRIGGER	
	x			B-CS-W5Ø4-Ø-1		1	INITIAL TRANSIENT DETECTOR	
	x			B-CS-W5Ø5-Ø-1		1	LOW VOLTAGE DETECTOR	
	x			D-CS-W5Ø7-Ø-1		1	LOW VOLTAGE DETECTOR	
	x			D-CS-W5Ø9-Ø-1		1	3 PHASE LOW AC VOLT. DETECTOR	
	x			B-CS-W51Ø-Ø-1		1	POSITIVE LEVEL CONVERTER	
	x			B-CS-W511-Ø-1		1	NEGATIVE LEVEL CONVERTER	
	x			B-CS-W513-Ø-1		1	LEVEL AMPLIFIER	
	x			B-CS-W514-Ø-1		1	POSITIVE LEVEL CONVERTER	
	x			D-CS-W519-Ø-1		1	PWR. SEQUENCE AND CROBAR	
	x			B-CS-W52Ø-Ø-1		1	COMPARATOR	
	x			B-CS-W532-Ø-1		1	DIFFERENCE AMP.	
	x			B-CS-W533-Ø-1		1	RECTIFYING SLICER	
	x			C-CS-W591-Ø-1		1	POS. LEVEL TO DEC LEVEL RECEIV.	
	X			B-CS-W592-Ø-1		1	IBM 360 TO DEC BUS RECEIV.	
	x							
	x			B-CS-W6ØØ-Ø-1		1	NEG. LEVEL AMPLIFIER	
	x			B-CS-W6Ø1-Ø-1		1	POS. LEVEL AMPLIFIER	
	x			C-CS-W6Ø2-Ø-1		1	BIPOLAR LEVEL AMPLIFIER	
	X			B-CS-W6Ø7-Ø-1		1	PULSE AMPLIFIER	
	x			D-CS-W612-YA-1		1	PULSE AMPLIFIER	
	x			D-CS-W64Ø-Ø-1		1	PULSE AMPLIFIER	
	x			B-CS-W681-Ø-1		1	SCOPE INTENSIFIER	
	x			B-CS-W692-Ø-1		1	DEC TO IBM 360 BUS DRIVER	
	x			B-CS-W693-Ø-1		1	DEC TO CT UL LINE DRIVER	
	x			B-CS-W7ØØ-Ø-1		1	SWITCH FILTER	
	x			B-CS-W7Ø1-Ø-1		1	INPUT NETWORK	
	x			B-CS-W7Ø2-Ø-1		1	TELETYPE LEVEL CONV	
	x			C-CS-W7Ø6-Ø-1		1	TELETYPE RECEIVER	
	x			D-CS-W7Ø7-Ø-1		1	TELETYPE TRANSMITTER	
	x			C-CS-W7Ø8-Ø-1		1	COMMUNICATIONS INTERFACER	
	x			C-CS-W726-Ø-1		1	SWITCH FILTER	
	x			B-CS-W8ØØ-Ø-1		1	RELAY	
	x			B-CS-W8Ø8-Ø-1		1	RELAY	
	x			B-CS-W841-Ø-1		1	CABLE TERMINATOR	

CUSTOMER PRINT SET MAN-1	CUSTOMER PRINT SET MAN-2	MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
	x			C-CS-W85Ø-Ø-1		1	10 CONNECTOR	
	x			C-CS-W851-Ø-1		1	PDP1Ø BUS CONN. BD.	
	x			B-CS-W852-Ø-1		1	CONNECTOR	
	x			C-CS-W853-Ø-1		1	EIA LOW FREQ DATA SET CONV	
	x			B-CS-W99Ø-Ø-1		1	BLANK MODULE	

TITLE	SIZE	CODE	NUMBER	REV
REPLACEMENT SCHEMATICS (MANUAL 2) SHEET 9 OF 9	B	DD	PDP1Ø-Ø-RS	

CUSTOMER PRINT SET MAN-1	CUSTOMER PRINT SET MAN-2					MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
	x							D-CS-M594Ø-Ø-1		1	EIA LEVEL CONVERTER	
	x							D-CS-M7Ø5Ø-Ø-1		1	READER CONTROL	
	x							D-CS-M71ØØ-Ø-1		1	10 DEVICE CONTROL	
	x							D-CS-M711Ø-Ø-1		3	SYNC. MODEM INTERFACE	
	x							C-CS-m767Ø-Ø-1		1	FORWARD B.O.T. TIMER	
	x							D-CS-M782Ø-Ø-1		1	INTERRUPT CONTROL	
	x							B-CS-RØØ1		1	DIODE NETWORK	
	x							B-CS-RØØ2-Ø-1		1	DIODE CLUSTERS	
	x							B-CS-R1Ø7-Ø-1		1	INVERTER	
	x							B-CS-R111-Ø-1		1	DIODE GATE	
	x							B-CS-R113-Ø-1		1	DIODE GATE	
	x							B-CS-R121-Ø-1		1	NAND GATE	
	x							B-CS-R123-Ø-1		1	DIODE GATE	
	x							B-CS-R141-Ø-1		1	DIODE GATE	
	x							B-CS-R151-Ø-1		1	BINARY TO OCTAL DECODER	
	x							B-CS-R181-Ø-1		1	DC CARRY CHAIN	
	x							B-CS-R2Ø1-Ø-1		1	FLIP FLOP	
	x							B-CS-R2Ø2-Ø-1		1	DUAL FLIP FLOPS	
	x							B-CS-R2Ø3		1	TRIPLE FLIP FLOP	
	x							B-CS-R2Ø5		1	DUAL FLIP FLOP	
	x							C-CS-R22Ø-Ø-1		1	3 BIT SHIFT REGISTER	
	x							B-CS-R3Ø2-Ø-1		1	DELAY (ONE SHOT)	
	x							B-CS-R3Ø3-Ø-1		1	INTERGRATING ONE SHOT	
	x							B-CS-R4Ø1-Ø-1		1	CLOCK	
	x							B-CS-R4Ø5-Ø-1		1	CRYSTAL CLOCK	
	x							C-CS-R45Ø-Ø-1		1	VARIABLE CLOCK	
	x							C-CS-R451-Ø-1		1	CURRENT DRIVER 790 P.S. 60 HZ	
	x							B-CS-R6Ø1-Ø-1		1	PULSE AMPLIFIER	

CUSTOMER PRINT SET MAN-1	CUSTOMER PRINT SET MAN-2					MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO.
	x							B-CS-R6Ø2-Ø-1		1	PULSE AMPLIFIER	
	x							B-CS-R6Ø3		1	PULSE AMPLIFIER	
	x							B-CS-R613-Ø-1		1	PULSE AMPLIFIER	
	x							B-CS-S1Ø7-Ø-1		1	INVERTER	
	x							C-CS-S111-Ø-1		1	DIODE GATE	
	x							B-CS-S151-Ø-1		1	BINARY TO OCTAL DECODER	
	x							B-CS-S181-Ø-1		1	DC CARRY CHAIN	
	x							B-CS-S2Ø2-Ø-1		1	DUAL FLIP FLOP	
	x							B-CS-S2Ø3-Ø-1		1	TRIPLE FLIP FLOP	
	x							B-CS-S2Ø5-Ø-1		1	DUAL FLIP FLOP	
	x							B-CS-S6Ø2-Ø-1		1	PULSE AMPLIFIER	
	x							B-CS-S6Ø3-Ø-1		1	PULSE AMPLIFIER	
	x							C-CS-WØØ2		1	CLAMP LOAD	
	x							B-CS-WØØ5-Ø-1		1	CLAMPED LOADS	
	x							B-CS-WØ1Ø-Ø-1		1	CLAMPED LOADS	
	x							B-CS-WØ11-Ø-1		1	SIGNAL CABLE CONNECTOR	
	x							B-CS-WØ12-Ø-1		1	INDICATOR CABLE CONN.	
	x							B-CS-WØ13-Ø-1		1	WORD SYNC STACK CONN.	
	x							C-CS-WØ14-Ø-1		1	DIGITAL STACK CONN.	
	x							B-CS-WØ17-Ø-1		1	WORD DRIVE STACK CONN.	
	x							B-CS-WØ2Ø		1	INDICATOR CABLE	
	x							B-CS-WØ21		1	SIGNAL CABLE CONN	
	x							B-CS-WØ23-Ø-1		1	CONNECTOR	
	x							B-CS-WØ25-Ø-1		1	CONNECTOR BOARD	
	x							B-CS-WØ28-Ø-1		1	TERMINAL BOARD	
	x							B-CS-WØ32-Ø-1		1	CONNECTOR	
	x							B-CS-WØ33-Ø-1		1	CABLE CONNECTOR	
	x							B-CS-WØ4Ø		1	SOLEHOID DRIVER	
	x							B-CS-WØ51		1	100 MA IND. & RELAY DRIVER	
	x							B-CS-WØ76-Ø-1		1	TELETYPE CONN.	
	x							B-CS-WØ78-Ø-1		1	TELETYPE CONN.	
	x							B-CS-W1Ø1-Ø-1		1	10 BUS DRIVER	
	x							B-CS-W1Ø2-Ø-1		1	PULSED BUS TRANSCEIVER	
	x							D-CS-W1Ø6-Ø-1		1	P.I. REQUEST GRANT	
	x							B-CS-W1Ø7-Ø-1		1	10 BUS RECEIVER	
	x							B-CS-W122-Ø-1		1	BUS TRANSCEIVER	
	x							D-CS-W132-Ø-1		1	BUS TRANSCEIVER	
	x							B-CS-W25Ø-Ø-1		1	INDICATOR CABLE CONN.	

TITLE		SIZE	CODE	NUMBER	REV
REPLACEMENT SCHEMATICS (MANUAL 2)	SHEET 8 OF 9	B	DD	PDP1Ø-Ø-RS	

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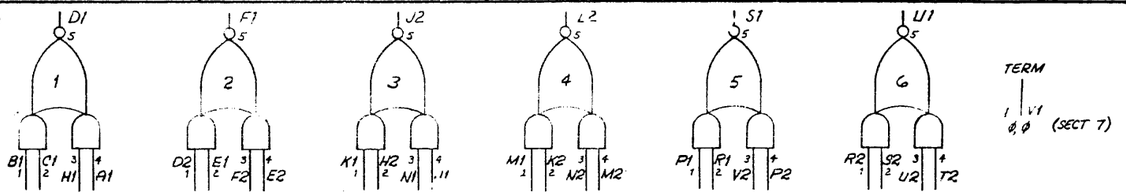
M126 ETCH REV B
(MS 923)
2-2 AND-NOR GATE

+5V A2
-15V B2 NOT USED
GND C2, T1 & L1 (SECT 1)

✓19 NOV 70 ✓16 DEC 70 ✓WDW 20 JAN 71

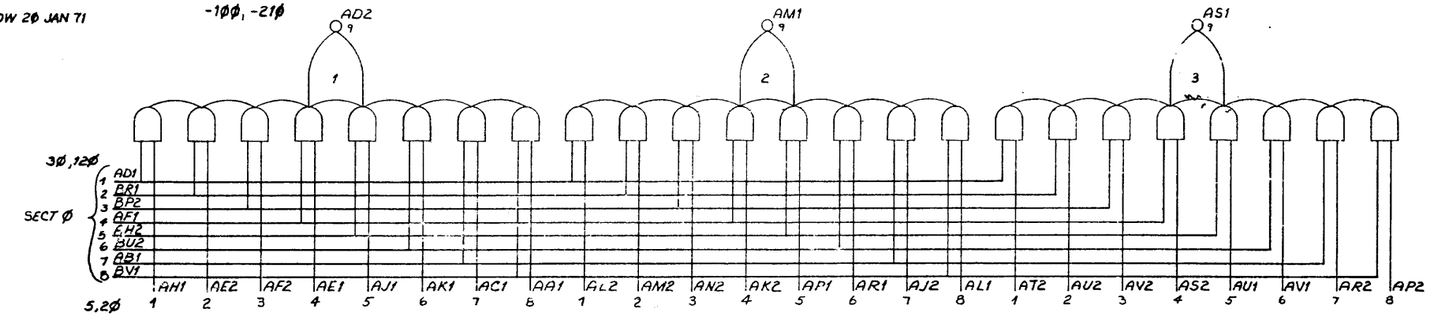
-10Ø, -21Ø



5,2Ø

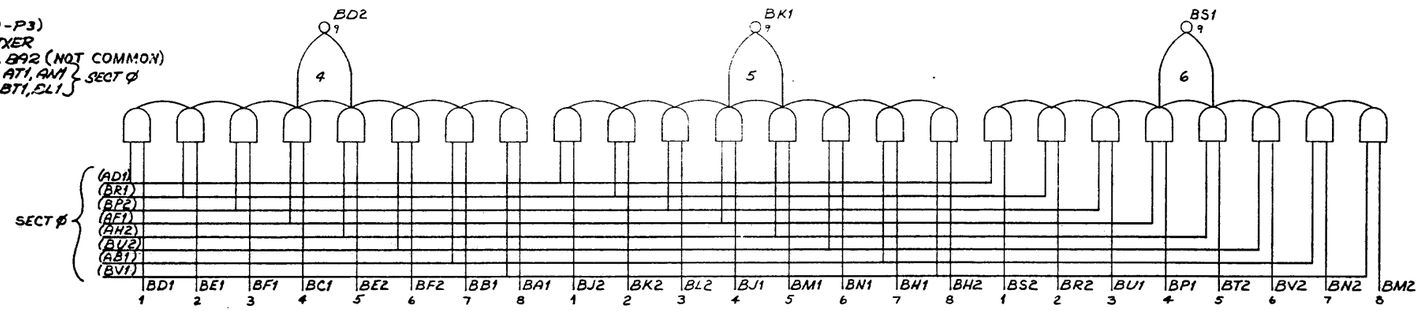
✓WDW 20 JAN 71

-10Ø, -21Ø



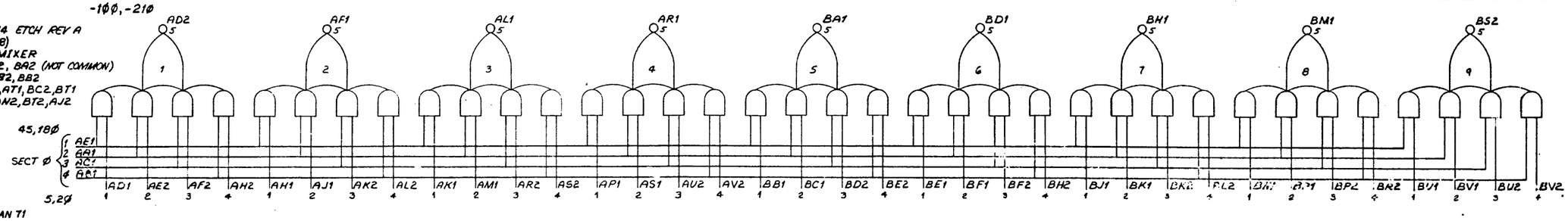
5,2Ø

M178
(MS 509-P3)
6x8 MIXER
+5: AA2, BA2 (NOT COMMON)
⏚ AC2, AT1, AN1 } SECT Ø
⏚ BC2, BT1, BL1 }



-1Ø, -21Ø

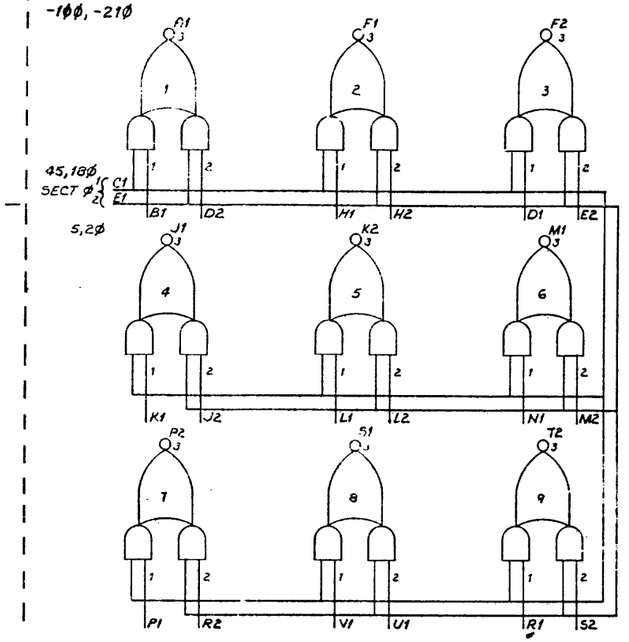
M174 ETCH REV A
(MS 518)
9x4 MIXER
+5: AA2, BA2 (NOT COMMON)
N/C: AB2, BB2
SECT Ø ⏚: AC2, AT1, BC2, BT1
⏚: BL1, AN2, BT2, AJ2



5,2Ø

✓3 DEC 70
✓WDW 20 JAN 71

-1Ø, -21Ø



M172 ETCH REV A
(MS532)
9x2 MIXER
+5: A2
N/C: B2
⏚: C2, T1, N2 SECT Ø
-3V2 SECT Ø
-258, 999

✓3 DEC 70
✓WDW 20 JAN 71

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS	REV.	CHANGE NO.	CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KI1Ø		PARTS LIST		

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY / REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

DRN	D.J. Sweeney	DATE 6/5/70
CHK	Richard Gross	DATE 31 Jan 72
ENG	Anthony Kotch	DATE 31 Jan 72
PROJ ENG	John Kent	DATE 31 Jan 72
PROD		DATE 31 JAN 72

NEXT HIGHER ASSY: B-DD-KI1Ø-Ø
SCALE
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: PDP-1Ø M-SERIES LOGIC ELEMENTS

SIZE	CODE	NUMBER	REV.
D	BS	PDP1Ø-Ø-LE2	

DIST.

DEC FORM NO DRD 102A

8 7 6 5 4 3 2 1

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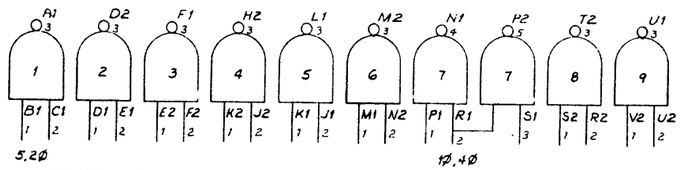
✓ WDW 20 JAN 71

M143 ETCH REV A
(MS833-P1)
2-IN NAND
+5: A2
N/C: B2
⏚: C2, T1, H1, L2 (SECT 1.)
+3V ___ V1 (SECT 1)
-34Ø, 999

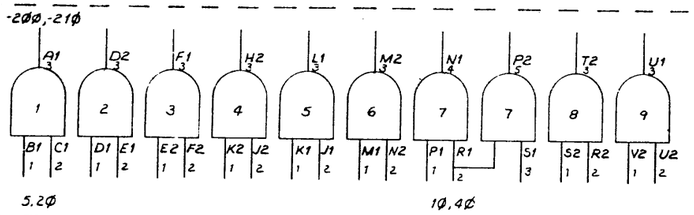
-1ØØ, -21Ø



M173 ETCH REV A
(MS881)
2-IN AND
+5: A2
N/C: B2
⏚: C2, T1, H1, L2 (SECT 1)
+3 ___ V1 (SECT 1)
-258, 999

✓ WDW 20 JAN 71
✓ 19 NOV 70

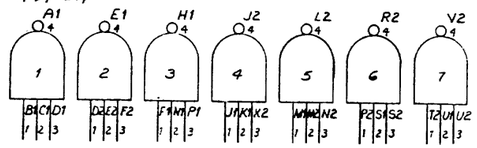
-2ØØ, -21Ø



M145 ETCH REV A
(MS729)
7 3-IN NAND
+5: A2
N/C: B2
⏚: C2, T1, H2, L1, R1 (SECT 1.)
+3V ___ V1 (SECT 1)
-258, 999

✓ 3 DEC 70 ✓ WDW 20 JAN 71

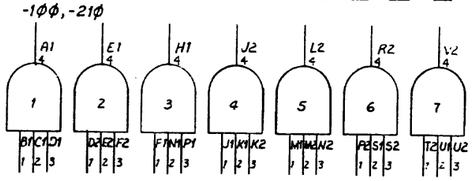
-1ØØ, -21Ø



M175 ETCH REV A
(MS883)
7 3-IN AND
+5: A2
N/C: B2
⏚: C2, T1, H2, L2, R1 (SECT 1)
+3 ___ V1 (SECT 1)
-258, 999

✓ WDW 20 JAN 71
✓ 19 NOV 70

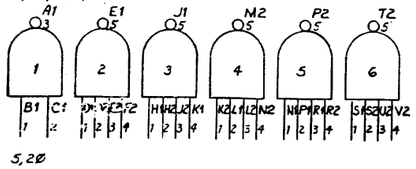
-1ØØ, -21Ø



M147 ETCH REV B
(MS734)
5 4-IN NAND
1 2-IN NAND
+5: A2
N/C: B2
⏚: C2, T1, F1, M1 (SECT 1)
+3 ___ U1
+3 ___ V1 (SECT 1)
-258, 999

✓ 11 DEC 70
✓ 19 NOV 70 ✓ WDW 20 JAN 71

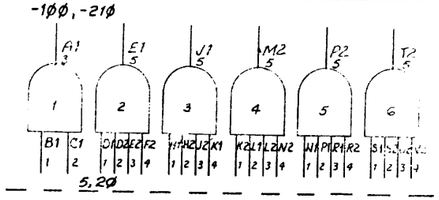
-1ØØ, -21Ø



M177 ETCH REV A
(MS885)
3 4-IN NAND
1 2-IN NAND
+5: A2
N/C: B2
⏚: C2, T1, F1, M1 (SECT 1)
+3 ___ U1
+3 ___ V1 } SECT 1
-258, 999

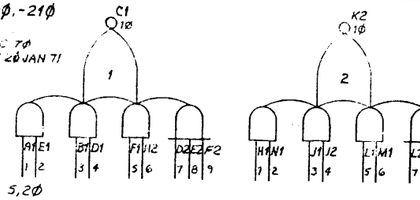
✓ WDW 20 JAN 71
✓ 3 DEC 70

-1ØØ, -21Ø



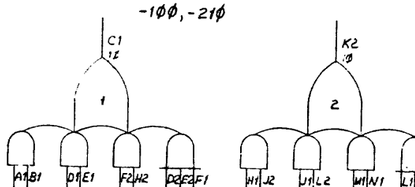
-1ØØ, -21Ø

✓ 3 DEC 70
✓ WDW 20 JAN 71



M171 ETCH REV A
(MS727)
4 2-2-2-3 AND NOR
+5: A2
N/C: B2
⏚: C2, T1, K1 (SECT 1)
+3 ___ V1 (SECT 1)
-258, 999

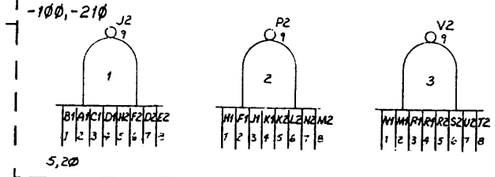
-1ØØ, -21Ø



M181 ETCH REV A
(MS887)
+5: A2
N/C: B2
⏚: C2, T1, K1 (SECT 1)
+3 ___ V1 (SECT 1)
-258, 999

✓ WDW 20 JAN 71
✓ 11 DEC 70
✓ 19 NOV 70

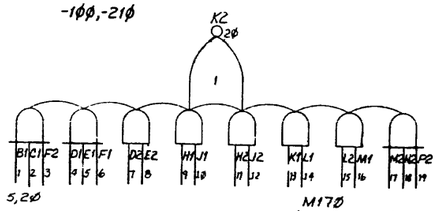
-1ØØ, -21Ø



M139 ETCH REV B
3 8-IN NAND
+5: A2
N/C: B2
⏚: C2, T1, E1, L1 S1 (SECT 1)
+3 ___ U1
+3 ___ V1 } SECT 1
-34Ø, 999

✓ WDW 20 JAN 71

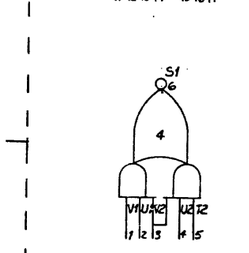
-1ØØ, -21Ø



M170
(MS593-P2) 2 AS'TD AND NOR
+5: A2
N/C: B2
⏚: C2, T1 (SECT 1) +3 ___ A1 (SECT 1) -258, 999

✓ WDW 20 JAN 71

-1ØØ, -21Ø



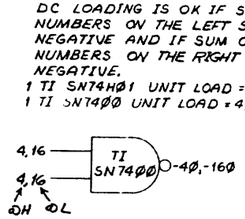
5,2Ø EA.
1Ø,4Ø COMMON

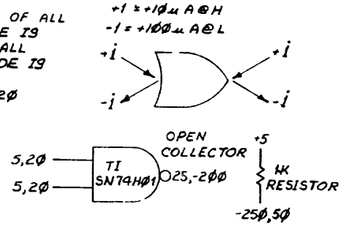
M128 ETCH REV A
(MS731)
+5: A2
N/C: B2
⏚: C2, T1, L2, P1 (SECT 1)

✓ WDW 20 JAN 71
✓ 19 NOV 70

KEY
- (T) PIN HAS FULL TERMINATOR 'H' IT IN ADDITION TO LOGIC FUNCTION.
- (TL) PIN HAS TERMINATOR FOR LOW LEVEL IN ADDITION TO LOGIC FUNCTION.
- (TH) PIN HAS TERMINATOR FOR HIGH LEVEL IN ADDITION TO LOGIC FUNCTION
- ✓ DATE REVISION OF ETCH CHECKED AGAINST LE DWGS AND NEW

LOADING NOTATION
DC LOADING IS OK IF SUM OF ALL NUMBERS ON THE LEFT SIDE IS NEGATIVE AND IF SUM OF ALL NUMBERS ON THE RIGHT SIDE IS NEGATIVE.
1 TI SN74HØ1 UNIT LOAD = 5,2Ø
1 TI SN74ØØ UNIT LOAD = 4,16





+1 = +1Ø μ A @ H
-1 = +16Ø μ A @ L

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS	REV.	CHANGE NO.	CHK

DEC FORM NO SRD 102A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
K1Ø		PARTS LIST		

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .ØØ8 FRACTIONS ± 1/64 ANGLES ± Ø°3Ø'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

DRN. [illegible] DATE 6/3/70
CHK. Richard Grove DATE 7/Jan/71
ENG. Allan Kotok DATE 7/Jan/71
PROJ. ENG. Allan Kent DATE 7/Jan/71
PROD. [illegible] DATE 7/Jan/71
NEXT HIGHER ASSY B-DD-K1Ø-Ø
SCALE
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
PDP-1Ø M-SERIES
LOGIC ELEMENTS

SIZE	CODE	NUMBER	REV.
D	BS	PDP1Ø - Ø - LE1	
DIST.			

BS PDP10 - Ø - LE1 REV J

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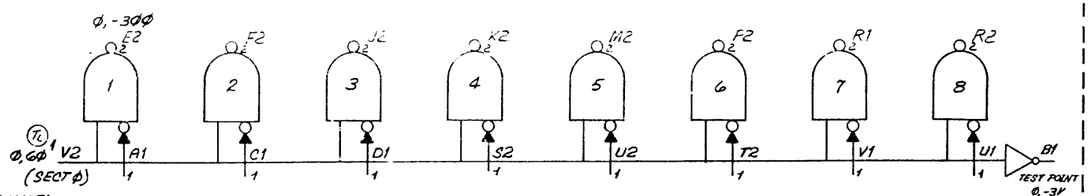
M565 ETCH REV B
(MS898)
8 MEMORY BUS RECEIVERS

+5V: A2
-15V: B2
GND: C2, F1, H1, K1, L1, N2, P1, T1 (SECT Ø)

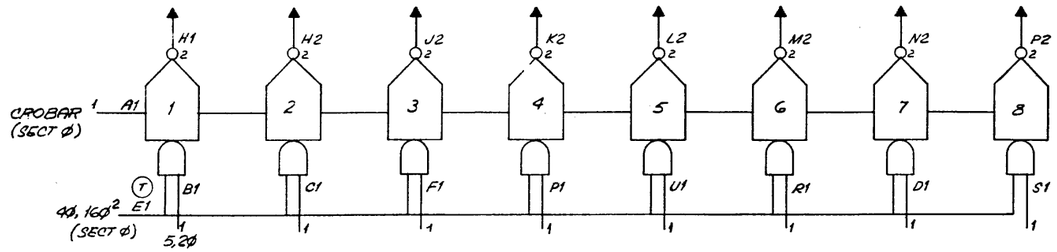
✓ 18 NOV 70 ✓ 7 DEC 70 ✓ PS 7 JAN 71



M665 ETCH REV D
(MS910)
8 MEMORY BUS TRANSMITTERS

+5V: A2
-15: B2
GND: C2, T1, E2, F2, M1, N1, V1 (SECT Ø)

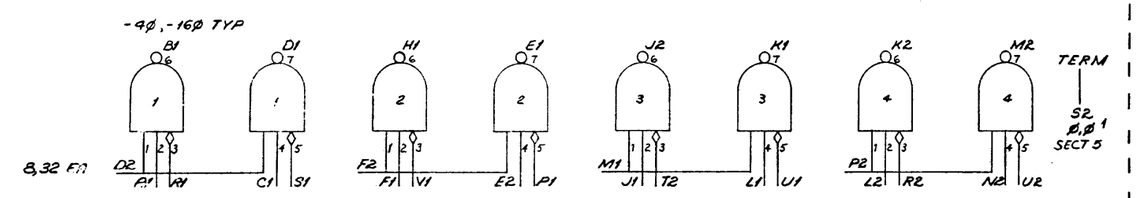
✓ PS 7 JAN 71
✓ 7 DEC 70
✓ 18 NOV 70



M564 ETCH REV C
(MS927)
I/O BUS RCVR
+5: A2
-15: B2
⏚ C2, T1 (SECT 1)
H2, N1

V2 -5V TEST POINT

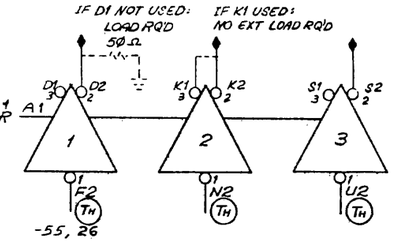
✓ PS 7 JAN 71
✓ 7 DEC 70
✓ 18 NOV 70



M663 ETCH REV C
(MS659)
MEMORY BUS ADDRESS DRIVER

+5V: A2
-15V: B2
⏚ C2, M2, V2 SECT Ø

✓ 18 NOV 70 ✓ 7 DEC 70 ✓ PS 7 JAN 71

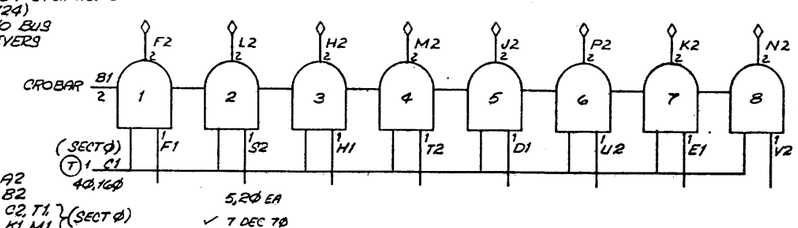


NOTE: T1 (SECT Ø) IS GND TO BACKPLANE ONLY. NO CONNECTION TO MODULE.

M664 ETCH REV C
(MS724)
8 I/O BUS DRIVERS

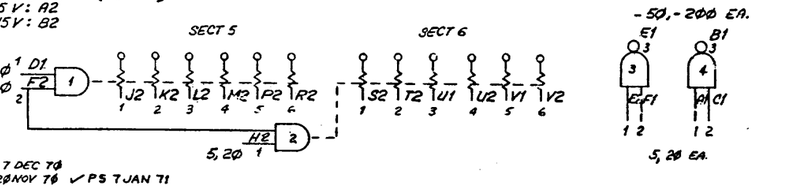
+5: A2
-15: B2
GND C2, T1, K1, M1 } (SECT Ø)

✓ 7 DEC 70
✓ 18 NOV 70 ✓ PS 7 JAN 71



M666 ETCH REV B
(MS966)
12 IOB RESET CKTS
⏚ C2, T1, H1, N2 (SECT 1)
= +5V: A2
-15V: B2

✓ 7 DEC 70
✓ 28 NOV 70 ✓ PS 7 JAN 71



✓ GFA 29 JAN 71

M952
M985
+5: A2
N/C: B2
⏚ (A1) C2, F1, L2, R1, T1, U2 (SECT 1)

27 TERMINATORS Ø, Ø LOAD

SECT	1	2	3	4	5	6	7	8	9	1Ø	11	12	13
	B1	C1	D1	D2	E1	E2	F2	H1	H2	J1	J2	K1	K2
SECT	14	15	16	17	18	19	2Ø	21	22	23	24	25	26	27
	L1	M1	M2	N1	N2	P1	P2	R2	S1	S2	T2	U1	V1	V2

M948 (M947)
(M3795/M3794)
24 LAMP DRIVERS
(MAINT IND)

LOGIC END
LAMP END
LOAD 80, 1
UPPER LEVEL = +1.5V

SECT 1
1 2 3 4 5 6 7 8 9 1Ø 11 12 13 14 15 16 17 18 19 2Ø 21 22 23 24
D2 K2 E2 J2 D1 E1 C1 F2 H1 F1 A1 H2 J1 M2 L2 P1 P2 L1 R1 S1 N1 S2 M1 K1
(J2)(H2)(D2)(B1)(C1)(A1)(D1)(E1)(J1)(H1)(F1)(K2)(L1)(J1)(P1)(S1)(P2)(R1)(S2)(U2)(R2)(V2)(M2)(L2)
LAMP I9 ON FOR HIGH INPUT
LAMP TEST: *V1 - LAMPS ARE ON FOR LOW INPUT } SECT Ø { GND C2, T1
LAMP TEST BUTTON: *U2 (F2)

M936 ETCH REV B
(MS1032)
18 RESIS. TERM.
⏚ C2, T1, (A1), C1, F1, F2, J2, L2, K1, N2, N1, U2
+5V: A2 (SECT 1)
N/C: B2

✓ 18 NOV 70
✓ 8 DEC 70 ✓ PS 7 JAN 71

REVISIONS	REV.	CHANGE NO.	CHK.

FIRST USED ON OPTION / MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KI1Ø		PARTS LIST		

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY ✓
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

	NAME	DATE
DRN.	W. Hartman	11/18/70
CHK'D		
ENG.		
PROJ. ENG.		
PROD.		

NEXT HIGHER ASSY: B-DD-KI1Ø-Ø

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: PDP 1Ø M-SERIES LOGIC ELEMENTS

SIZE	CODE	NUMBER	REV
D	BS	PDP1Ø - Ø - LE4	

SCALE
SHEET 1 OF 1
DIST.

DEC FORM NO DRO 102 A

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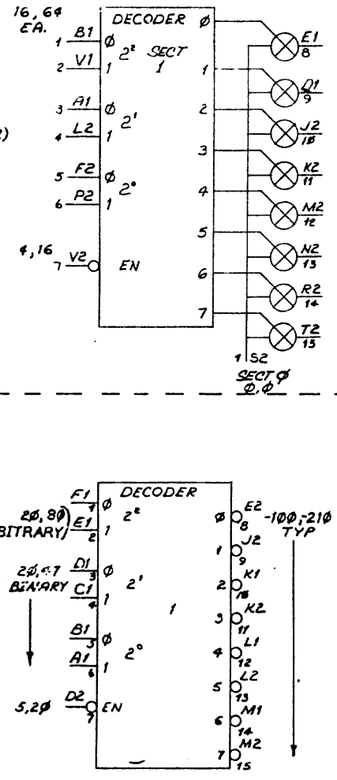
A133-A
(MS662-P2)
DECODER
ANALOG
MULTIPLEXOR
+5V: A2
-15: B2
⏚: C2, T1 (SECT Ø)
+15V: H2 (SECT Ø-2)

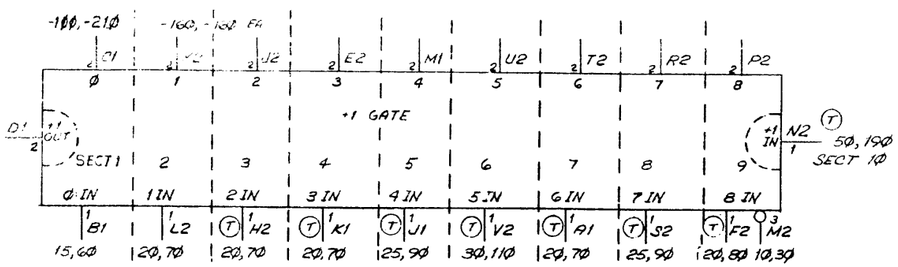
16, 64 EA.



✓ JED 1 FEB 71
✓ 7 DEC 70

M166 ETCH REV E
(MS1075)
+1 GATE
+5: A2
N/C: B2
⏚: C2, D2, L1, T1, U1
(SECT 1Ø)

+3V TEST POINT: V1



ALL INPUTS
HAVE LEVEL TERMINATOR
EXCEPT B1, L2, M2

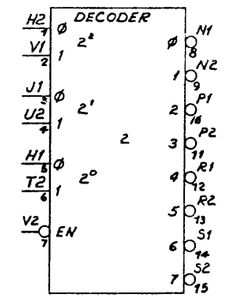
✓ P.S. 7 JAN 71
✓ 7 DEC 70
✓ 18 NOV 70

✓ GFA 29 JAN 71

M151
(MS543-P5)
+5: A2
N/C: B2
⏚: C2, T1 (SECT 1)
2X BINARY
TO OCTAL
DECODER

(IF ARBITRARY)
(IF BINARY)

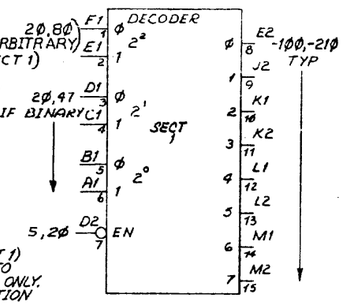
F2, U1 (SECT 1) ARE GNDS TO BACKPLANE ONLY. NO CONNECTION TO MODULE.



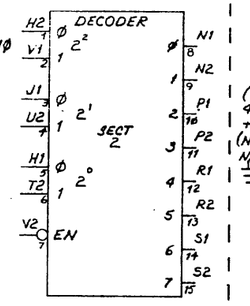
✓ GFA 29 JAN 71 (5, 2Ø PER GFA 5 FEB 71)

M152
(MS6Ø5-P4)
+5: A2
N/C: B2
⏚: C2, T1 (SECT 1)
2X BINARY
TO OCTAL
DECODER

(IF ARBITRARY)
(IF BINARY)



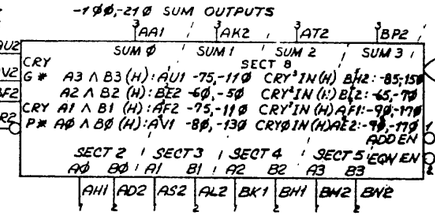
F2, U1 (SECT 1) ARE GNDS TO BACKPLANE ONLY. NO CONNECTION TO MODULE.



M142 ETCH REV A 1
(MS565-P5)
4-BIT ADDER
+5: AA2, BA2
(NOT COMMON)
N/C: AB2, BB2
⏚: AC2, AT1, BC2, BT1
AJ1, BJ1 (SECT 1)

SECT 7
-1ØØ, -21Ø

-1ØØ, -21Ø SUM OUTPUTS

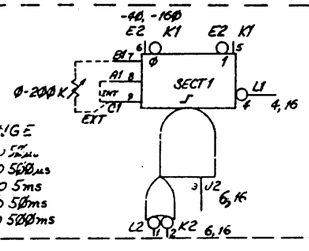


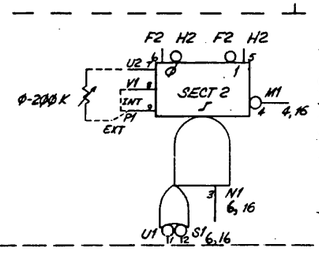
CRY G * A3 ∧ B3 (H): AU1 -75, -17Ø CRY* IN (H) BU2: -85, -15Ø
A2 ∧ B2 (H): BE2 -6Ø, -5Ø CRY* IN (L) BL2: -45, -7Ø
CRY A1 ∧ B1 (H): AF2 -75, -11Ø CRY* IN (H) AF1: -9Ø, -17Ø
P * AØ ∧ BØ (H): AV1 -8Ø, -13Ø CRYØ IN (H) AE2: -9Ø, -17Ø
ADD EN

Ø'S ≙ 2'S IN = 25, 1ØØ
1'S ≙ 3'S IN = 30, 12Ø

M307 REV B #1
DUAL TIMER
+5: A2
-15: B2
⏚: C2, T1 (SECT 1)

SWITCH	RANGE
"5"	5 μs TO 5 ms
"4"	5Øμs TO 5ØØμs
"3"	5ØØμs TO 5 ms
"2"	5 ms TO 5Ø ms
"1"	5Ø ms TO 5ØØ ms





✓ JED 1 FEB 71
THE M3070 IS PIN & LOAD COMPATIBLE WITH THE M307 WITH THE FOLLOWING RANGES:

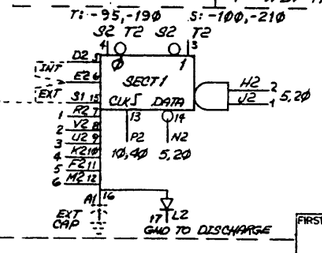
SWITCH	RANGE
5	200NS TO 2 μs
4	2 μs TO 20 μs
3	20 μs TO 200 μs
2	200 μs TO 2 ms
1	2 ms TO 20 ms

THE M3070 MAY USE A Ø-5K ⎍ EXT POT

M308 REV
(M91043)
GLITCHLESS TIMER
+5: A2
N/C: B2
⏚: C2, T1 (SECT 1)

✓ RYW 1 FEB 71
(-19Ø & -21Ø PER P.S. 1 FEB 71)

✓ WDV 19 FEB 71



PIN	DESIG.	RANGE
R2	"1"	2ØØns TO 2.Ø μs
V2	"2"	2.Ø μs TO 2Ø μs
U2	"3"	2Ø μs TO 5ØØ μs
K2	"4"	5ØØ μs TO 6 ms
F2	"5"	6 ms TO 16Ø ms
M2	"6"	16Ø ms TO 4 s

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS	CHANGE NO.	REV.

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KI1Ø		PARTS LIST		

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .ØØØ FRACTIONS ± 1/64 ANGLES ± Ø°3Ø'
FINAL SURFACE QUALITY ✓
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

DRN.	DP Lewin	DATE 2/14/7Ø
CHKD.	Wavid Stroud	DATE 3/1Ø/72
ENG.	Allan Kotik	DATE 3/1Ø/72
PROJ. ENG.	Allen Kent	DATE 3/1Ø/72
PROD.	[illegible]	DATE 3/1Ø/72

NEXT HIGHER ASSY B-DD-KI1Ø-Ø
SCALE
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
PDP-1Ø M-SERIES
LOGIC ELEMENTS

SIZE	CODE	NUMBER	REV
D	BS	PDP1Ø-Ø-LE3	

DIST.

DEC FORM NO DRD. 102A

8 7 6 5 4 3 2 1

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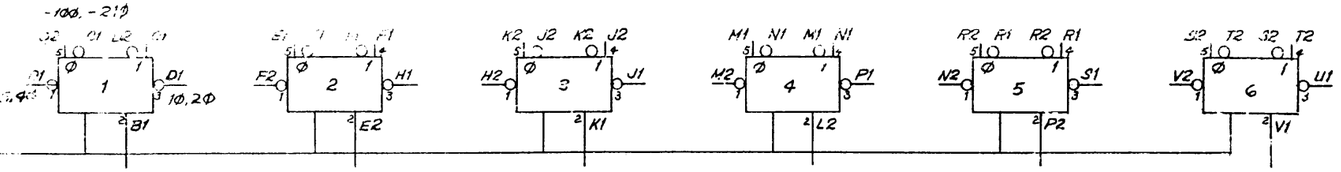
M241
(M9665-P3)
6 D FLIP-FLOPS
+5V: A2
-15V: B2
GND C2, L1, T1 (SECT Ø).

"M241A" IF SKEW IS NOT IMPORTANT
CLOCK LOAD IS 29, 25
+23Ø, +46 U2 (SECT Ø) 1 (TL)

-10Ø, -21Ø

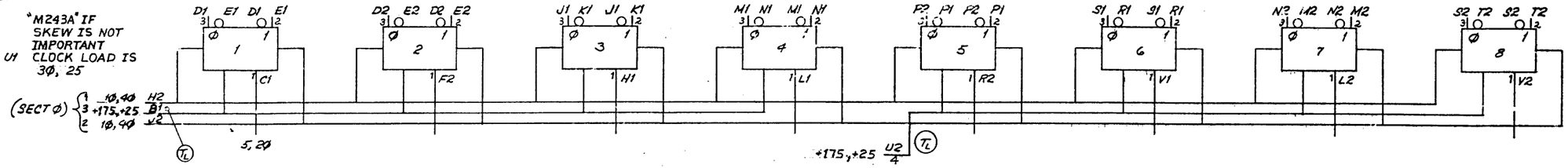


✓ WDW 20 JAN 71
✓ 2 DEC 70

M243 ETCH REV A
(M9892)
8 D FLIP-FLOP
+5V: A2
-15V: B2
GND: C2, F1, K2, T1, U1 (SECT 1)

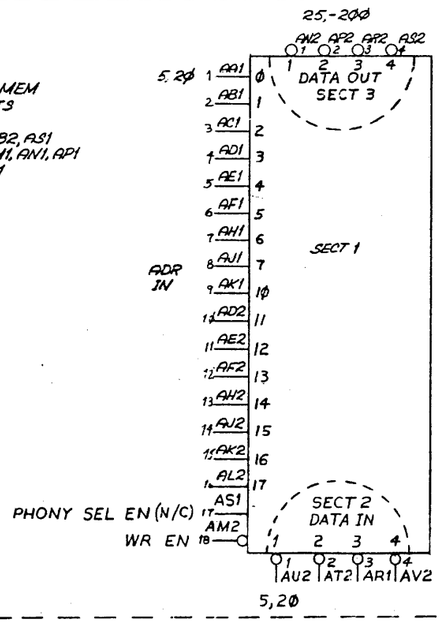
"M243A" IF SKEW IS NOT IMPORTANT
CLOCK LOAD IS 3Ø, 25

-10Ø, -21Ø



✓ WDW 20 JAN 71
✓ 20 NOV 70

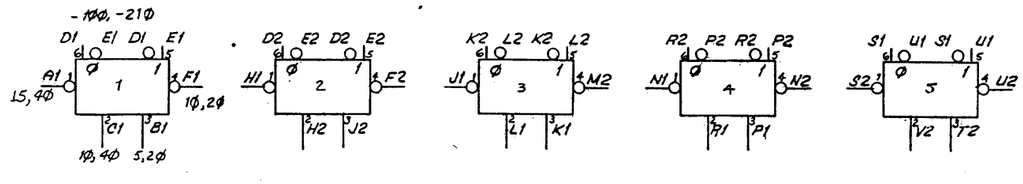
M252
(MS541)
RANDOM ACCESS MEM
(16 WORDS x 4 BITS)
+5V: AA2
N/C: BA2, AB2, BB2, AS1
GND: AC2, AL1, AM1, AN1, AP1, AT1, BC2, BT1
(SECT 1)



✓ GFA 29 JAN 71

M1246-A
(MS1014)
+5: A2
N/C: B2
⏚: C2, M1, T1 (SECT 1)

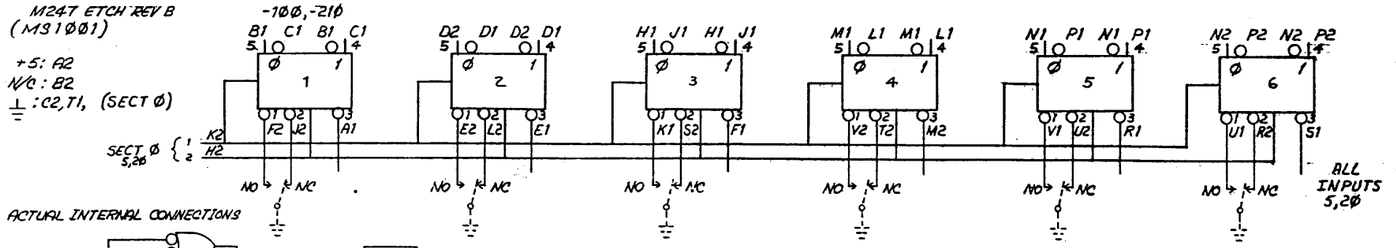
-10Ø, -21Ø



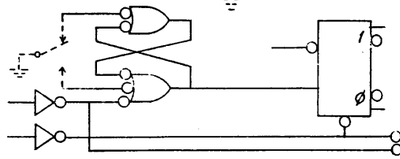
✓ WDW 20 JAN 71

M247 ETCH REV B
(M91001)
+5: A2
N/C: B2
⏚: C2, T1, (SECT Ø)

-10Ø, -21Ø



ACTUAL INTERNAL CONNECTIONS



✓ 18 NOV 70 ✓ PS 7 JAN 71

NOTE: INVERTED DEFINITIONS OF FLIP-FLOPS ARE ALSO INCLUDED IN MODULE DEFINITIONS.

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS	CHANGE NO.	CHK.

FIRST USED ON OPTION / MODEL: KI1Ø

QTY.	DESCRIPTION	PART NO.	ITEM NO.
	PARTS LIST		

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DRN	J. Stephenson	DATE 6/4/70
CHD	Richard Gross	DATE 9/15/70
ENGR	Wm. Kotok	DATE 9/15/70
PROJ ENGR	Peter Kent	DATE 30 Jun 72
PROD	[illegible]	DATE 30 Jun 72

NEXT HIGHER ASSY: B-DD-KI1Ø-Ø
SCALE: NONE
SHEET 1 OF 1

DIGITAL EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE: PDP 1Ø Mi-SERIES LOGIC ELEMENTS

SIZE	CODE	NUMBER	REV.
D	BS	PDP1Ø-Ø-LE6	

DIST.

DEC FORM NO DIRD 102A

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M25Ø
(MS534-P4)
16 WORD x 4 BIT MEMORY
+5:A2
N/C:B2, U1, V1
⏚ C2, T1, L1, M1, N1, P1 (SECT 1)

3Ø,-1ØØ LOW OUTPUTS

10,16 EACH

A1 B1 C1 D1 E1 F1 H1 U1 K1 D2 E2 F2 H2 J2 K2 L2 S1 M2

N2 P2 R2 S2

DATA OUT SECT 3

ADDRESS

SECT 1 MEMORY

SECT 2 DATA IN

160,16 17 SEL EN
10,16 18 WR EN

U2 T2 R1 V2

20,32

✓GFA 29 JAN 71

✓GFA 29 JAN 71

M26Ø
(MS575-P4)
ASSOCIATIVE MEMORY
+5:AA2
N/C:AB2, BB2
⏚:AC2, AT1, BT1 (SECT 1)

5,-1ØV DATA OUTPUTS

BL1 BL2 BM1 BM2 BN1 BN2 BP1 BP2 BR1 BR2 BS1 BS2

18,98 EA

AK1 ADR SEL
AM1
API
AS1
AB1 WR EN

SECT 1 SECT: 2 3 4 5 6 7 8 9 1Ø 11 12 13

DATA OUTPUTS

ASSOCIATIVE MEMORY

MATCH OUTPUTS

AJ1 AL1 AN1 AR1

33,-1ØØ (SECT 1)

DATA & MASK INPUTS (MASK HIGH FORCES MATCH IN BIT)

27,72

DØ MØ D1 M1 D2 M2 D3 M3 D4 M4 D5 M5 D6 M6 D7 M7 D8 M8 D9 M9 D1Ø M1Ø D11 M11

BD1 AU2 BD2 AT2 BE1 AS2 BE2 AR2 BF1 AP2 BF2 AN2 BH1 AM2 BH2 AL2 BJ1 AK2 BJ2 AJ2 BK1 AH2 BK2 AF2

6,16 DATA INPUTS 9,24 MASK INPUTS

BC2 (SECT 1) IS GND TO BACKPLANE ONLY. NO CONNECTION TO MODULE.

RC1 1K +5V
AD1 +5V
AE1 +5V
AF1 +5V
-235,58 (SECT 14)

✓GFA 29 JAN 71 (OUTPUTS INVERTED PER GFA 5 FEB 71)

M253
(MS655-P3)
16 WORD x 12 BIT MEMORY
+5:A2
N/C:B2
⏚:C2, T1, J2, V2 (SECT 1)

1Ø,-1ØØ

J1 D2 D1 E1 M2 K2 H2 M1 T2 U2 R1 R2

12,48 EA

K1 S1 N1 U1 F1

SECT: 1

Ø 1 2 3 4 5 6 7 8 9 1Ø 11 12 13

BINARY ADDRESS

DATA OUTPUTS (COLLECTOR ORABLE)

MEMORY

SEL EN WR EN

5,2Ø 12,48

DATA INPUTS

H1 E2 C1 B1 N2 L2 F2 L1 S2 V1 P1 P2

4,16

M165
(MS886-P4)
+5:A2
N/C:B2, U1, V1
⏚:C2, F2, J2, K2, M2, N2 T1, T2 (SECT 1)

-1ØØ,-21Ø H OUT.
-2ØØ,-21Ø L OUT

B1 H1 D1 J1 A1 F1 E1 K1 L1 S1 P1 S2 M1 R1 N1 U2

+5 C1 D2 E2 H2 L2 F2 R2 V2

-139,77 EA

FAST MEMORY BUFFER

✓GFA 29 JAN 71
(-2ØØ,21Ø PER P.S. 1 FEB 71)

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
KJ1Ø		PARTS LIST		

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY ✓
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DRN.	DATE	6/1/70
CHK'D. David Brooks	DATE	31 Jan 72
ENG.	DATE	31 Jan 72
PROJ. ENG.	DATE	31 Jan 72
PROD.	DATE	31 JAN 72

NEXT HIGHER ASSY B-DD-KJ1Ø-Ø

SCALE

SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
PDP-1Ø M-SERIES LOGIC ELEMENTS

SIZE	CODE	NUMBER	REV.
D	BS	PDP1Ø-Ø-LE5	

DIST.

REVISIONS | REV. | CHANGE NO. | CHK

DEC FORM NO DRD 102A

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✓ RYW 3 FEB 71

P2: -1ØØ, -21Ø
P1: -35, -19Ø

M71ØØ
MS1117
+5 : A2
N/C: B2
⏚ : C2, T1 (SECT Ø)

IOB SYNC
SECT 4

-5Ø, -2ØØ EA

DECODER
SECT 5

EQUALITY
SECT 6

SECT 6 S1 → 6 -1ØØ, -21Ø
R1 5,2Ø
N1 4 -1ØØ, -21Ø (SECT 6)

S2 1Ø, 4Ø
T2 8 1Ø, 44 (SECT 5)

5, 32 (SECT 6)

PIA 33 SECT 1
PIA 34 SECT 2
PIA 35 SECT 3

H1, L1, H2: -95, -178 EACH
M2, K2, D2: -92, -178 EACH

-6Ø, -5Ø R2 (SECT Ø)

5,2Ø (SECT Ø) U1
3Ø, 12Ø F2

N2 → 5,2Ø
J2 → 5,2Ø
E2 → 5,2Ø

M321
TAPPED DELAY LINE
1 4-IN NAND
1 4-IN NAND WITH
DELAYED OUTPUT
+5 : A2
-15 : B2
+3V — V1 (SECT 2) -34Ø+999
⏚ : C2, H1, N1, T1 (SECT 2)

1Ø, 4Ø
-1Ø; -2Ø P2
K4 L1 18 -999, -3ØØ EA (-3ØØ ns)
EXTERNAL JUMPER TO SPECIFY DELAY

✓ GFA 29 JAN 71

✓ RYW 3 FEB 71

M592
MS1Ø5Ø
I/O DEVICE SELECT
+5 : A2
-15 : B2
⏚ : C2, T1 (SECT 1)

5,2Ø (SECT Ø) CROBAR

SECT 1

DEVICE INTERRUPT
IOB GRANT IN
-5ØØ, -14Ø 3 DEVICE INT START
4 IOB GRANT OUT
POWER

W1ØG
(MS974)
RELAY IOB
PI GRANT
+5 : A2
-15 : B2
⏚ : C2, T1 (SECT 1)

✓ RYW 1 FEB 71

+8V
+5 BUS (A2)
PROGRAM VOLTAGE
REF
+5V
+ SENSE E2
- SENSE R2
TURN OFF

INDICATES REAR MATE-N-LOCK CONNECTOR

TURN OFF
+15V
+5V
+5V MONITOR
+5V CROBAR
CROBAR GND
C2 (SECT 1)

GB3Ø ETCH REV C
MS638

PIN T1 IS CONNECTED TO GROUND IN BACKPLANE (SECT 1)

✓ JED 1 FEB 71
✓ 7 DEC 70

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS			
REV	CHANGE NO.	CHK	

FIRST USED ON OPTION/MODEL: KIØ	QTY.	DESCRIPTION	PART NO. / ITEM NO.
		PARTS LIST	

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY 7
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL
FINISH

DRN.		DATE 12/9/70
CHK.	Richard Gross	DATE 9 Jan 72
ENG.	William Kotok	DATE 9 Jan 72
PROJ ENG.	Allan Kent	DATE 9 Jan 72
PROJ		DATE 12 Jan 72

NEXT HIGHER ASSY: B-DD-KIØ-Ø
SCALE
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: PDP 1Ø M-SERIES LOGIC ELEMENTS

SIZE D | CODE BS | NUMBER PDP1Ø - Ø - LE8 | REV
DIST.

DEC FORM NO DRD 102 A

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M363 M9248 VARIABLE DELAY

+5V : A2
-15V : B2
GND : C2, T1, H1, N2 (SECT 1)

17NS TO 85NS MIN RANGE

SECT 1

Ø, 16Ø A1 1 — K2 2, L2 3 — -999, -3ØØ EACH (-3ØØØ)

1 V2, 2 U2, 3 V1, 4 U1, 5 N1, 6 R1, 7 S1, 8 M2 — -1ØØ, -21Ø — 9 P1

5, 2Ø

SECT 2

✓ RYW 3 FEB 71

MG12 POWER DRIVER (M9862-PØ)

+5 : A2
N/C : B2
GND : C2, D2, L1, N1, T1, U2 (SECT 1)
+3V ___ U1 - 72Ø, 999 SECT 1

-15Ø, -6ØØ PER OUTPUT PAIR = -75, -3ØØ EACH

C1 D1 E2 F2 — A1 H1 F1 B1 E1 — SECT 1

K1 K2 M1 M2 — H2 J1 J2 L2 N2 — SECT 2

S1 S2 T2 V2 — P1 P2 R1 R2 V1 — SECT 3

1Ø, 9Ø SINGLE INPUTS

2Ø, 8Ø DUAL INPUTS

✓ GFA 29 JAN 71

M501 SCHMITT TRIGGER

+5V : A2
N/C : B2, T1
GND : C2 (SECT 1)
(T1 GND IN COMPLICATED)

K1 — A1 H1 F1 B1 — K2 — ST 2 — E2 3 — -1Ø, -1GØ — F2 2 — -32, -144

P2 4 — R2 1 — 1, 19

N2 5 — DO NOT USE — L2 6 — N2 — THRESHOLD SET

TEST POINT

SECT 1

τ = 3.3 ms — 3 U2 — 1 S2 — 150 — 150 — T2 2 — 22 µf NON-POLAR

τ = 6.6 ms

SECT 2

M362 ETCH REV B (M9721) LATCHED REGISTER DRIVER

+5V : A2
-15V : B2
GND : C2, T1, J1, M2, N2 SECT 1
+3 ___ J2 -34Ø, 999 SECT 1

CLOCK PULSE — E2 5 — F2 — 5, 2Ø 11 — 1 — 18 ns — -8Ø, -13Ø — 8 M2

STEERING DATA

H1 6 — A1 1, B1 2 — C1 7, D1 9, D2 10 — E1 3, F1 4

23-55NS MIN RANGE

K2 12 — L2 13 — -999, -3ØØ (-3ØØØ) EACH

5, 2Ø EA ← ADJUSTED IN CHECKOUT & FIELD TO EQUALIZE DELAYS TO FF CLOCKS

✓ PS 1 FEB 71
✓ 7 DEC 7Ø
✓ 2Ø NOV 7Ø

5, 2Ø — A1, B1 — E1, F1 — RD M362 — E2 5 — 15, 6Ø — A1, C1 — K2 12, L2 13 — -999, -3ØØ EACH

W2, D1, D2, F2 11 — 1Ø — 5, 2Ø — ×3

NOTE : THIS IS THE LOGICAL SYMBOL TO BE USED FOR THE M362 LATCHED REGISTER DRIVER

✓ 2Ø NOV 7Ø

M931 ETCH REV D (M91Ø31) 15 LEVEL TERMINATORS

+5V : A2
N/C : B2
GND : C2, F2, S1, T1 (SECT 1)

B1 C1 D1 E2 W1 V1 K1 L1 M1 N1 P1 R1 U1 T2 D2 — A1 E1 F1 D2 H2 J2 K2 L2 M2 N2 P2 R2 V1 S2 V2

SECT 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

+35, +1Ø (WHEN IND. USED "1")
-55, +1Ø (WHEN IND. NOT USED)
-9Ø, -2 (UPPER LEVEL) +1.5V.

✓ PS 1 FEB 71
✓ 18 NOV 7Ø

M9Ø3 (MS 735) PULSE AMPLIFIER

+5V : A2
N/C : B2
GND : C2, T1, K2 (SECT 1)

1Ø, 4Ø — K1 1 — 1 — -95, -19Ø — J1 2

BEING REVISED

M1 1 — 2 — L2 2

FIXED W1 3, P1 4, Z1 5 VARIABLE

REV WDW 19 FEB 71
✓ WDW 2Ø JAN 71

-1ØØ, -21Ø

J2 3 — 3 — F2, H2 1, 2
E1 3 — 4 — H1, F1 1, 2
E2 3 — 5 — D2, D1 1, 2
C1 3 — 6 — B1, A1 1, 2
N2 4 — 7 — K2, M2 1, 2, 3
R1 4 — 8 — W1, U1, S1 1, 2, 3
R2 4 — 9 — S2, T2, P2 1, 2, 3

5, 2Ø EA

AE2 / AN2 / AU1 / BE2 / BN2

-16Ø, -16Ø

AE2 9 — SECT ODD PARITY 1 — AP1 AE1 AF2 AH2 AD2 AB1 AC1 AD1 — 1 2 3 4 5 6 7 8 — 8, 28 EA

AN2 9 — ODD PARITY 2 — AH1 AM1 AP2 AR2 AM2 AL1 AK1 AJ1 — 1 2 3 4 5 6 7 8

AU1 9 — ODD PARITY 3 — AN1 AR1 BB1 BF1 AS1 AV1 AP1 AP1 — 1 2 3 4 5 6 7 8

BE2 9 — ODD PARITY 4 — BL1 BN1 BF2 BK2 BD2 BH1 BJ1 BK1 — 1 2 3 4 5 6 7 8

BN2 9 — ODD PARITY 5 — BP1 BV2 BR2 BR2 BM2 BS1 BJ1 BP1 — 1 2 3 4 5 6 7 8

NOTE : ALL INPUT PINS HAVE TERMINATORS.

-16Ø, -16Ø

AK2 3 — 6 — AV2, AL2 1, 2
AT2 3 — 7 — AS2, AJ2 1, 2
BC1 3 — 8 — BE1, BD1 1, 2
BK2 3 — 9 — BJ2, BL2 1, 2
BT2 3 — 1Ø — BS2, BJ2 1, 2

9, 28 EA

✓ PS 7 JAN 71
✓ 7 DEC 7Ø
✓ 2Ø NOV 7Ø

M13Ø ETCH REV B (MS 917) 5-8 BIT PARITY CHECKER

5-2 INPUT XOR GATES
+5 : AA2, BA2 (NOT COMMON)
N/C : AB2, BB2
GND : AC2, AF1, AT1, BC2, BN1, BT1 (SECT 1)
+3V ___ AV2
+3V ___ BV1 SECT 1
(-34Ø, 999)

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "0" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS	REV.	CHANGE NO.	CHK

FIRST USED ON OPTION MODEL KI1Ø	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES
TOLERANCES DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY ✓ REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

DRN.	M. Stephenson	DATE 6/29/70
CH'D.	David Gross	DATE 9 JUN 72
ENG.	Stan Kotok	DATE 12 JUN 72
PROJ. ENG.	Alan Kotok	DATE 12 JUN 72
PROD.	Matthews	DATE 9 JUN 72

NEXT HIGHER ASSY B-DD-KI1Ø-Ø
SCALE 2/1
SHEET 1 OF 1

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: PDP1Ø M-SERIES LOGIC ELEMENTS

SIZE D | CODE BS | NUMBER PDP1Ø-Ø-LE7 | REV.
DIST.

DEC FORM NO DRD 102A

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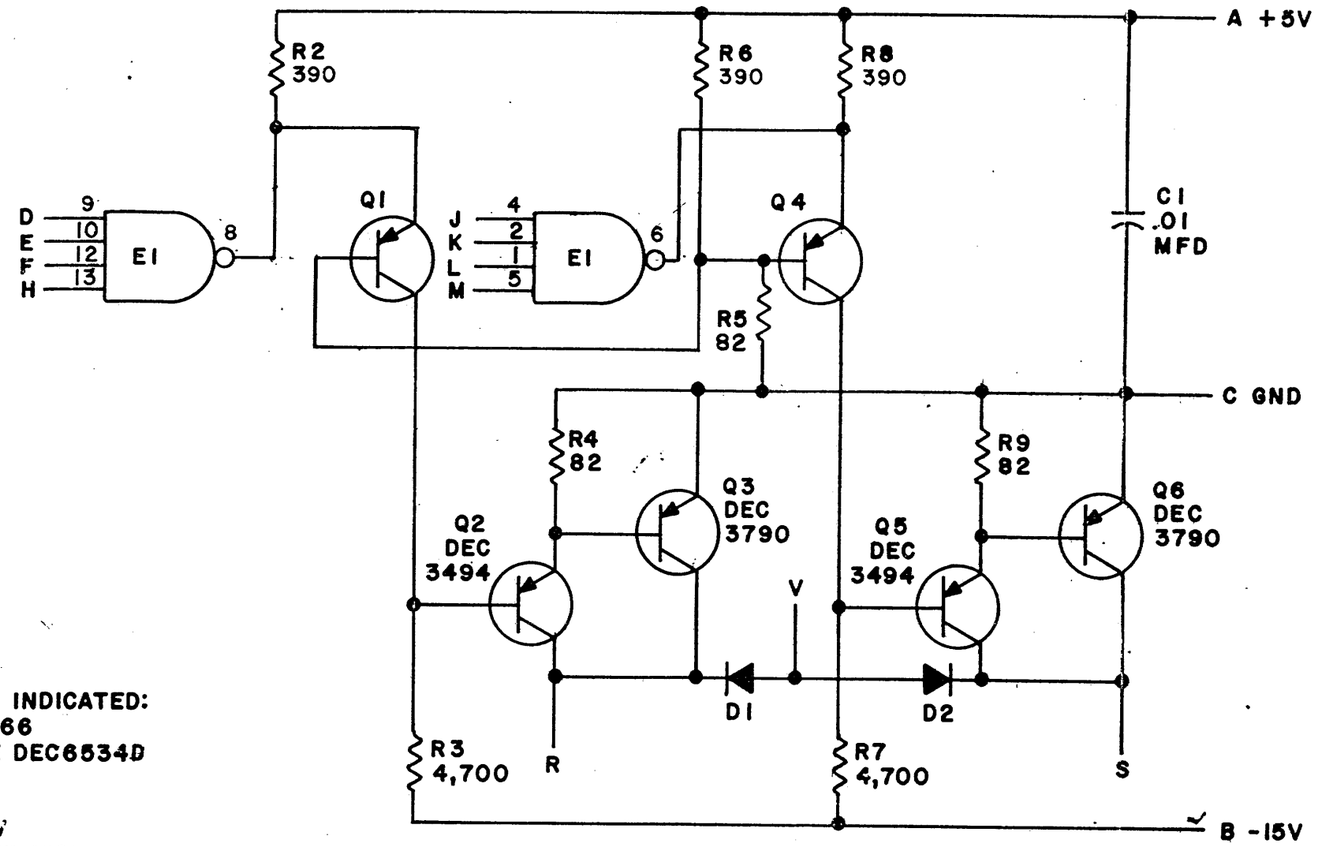

UNLESS OTHERWISE INDICATED:
DIODES ARE MR2066
TRANSISTORS ARE DEC6534D
E1 IS DEC7420N
PIN 7 ON IC = GND
PIN 14 ON IC = +5V
RESISTORS ARE 1/4W, 10%

PARTS LIST A-PL-M040-0-0

REVISIONS			DRN.	DATE
REV.	E		M. Keller	9-14-67
CHG NO.	00001		CHK'D	DATE
	00002		R. Silverman	9/22/67
CHK			ENG.	DATE
			N. Doyle	9/19/67
			PROD. 4	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3494	SAME		
DEC3790	2N3790		
DEC6534D	MPS6534		
D662	IN645		
MR2066	IN4003		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: SOLENOID DRIVER M040

SIZE	CODE	NUMBER	REV.
B	CS	M040-0-1	E

PRINTED CIRCUIT REV. E

DEC FORM NO.
DRB 102

5 DIST 320 334 436 3 PINK

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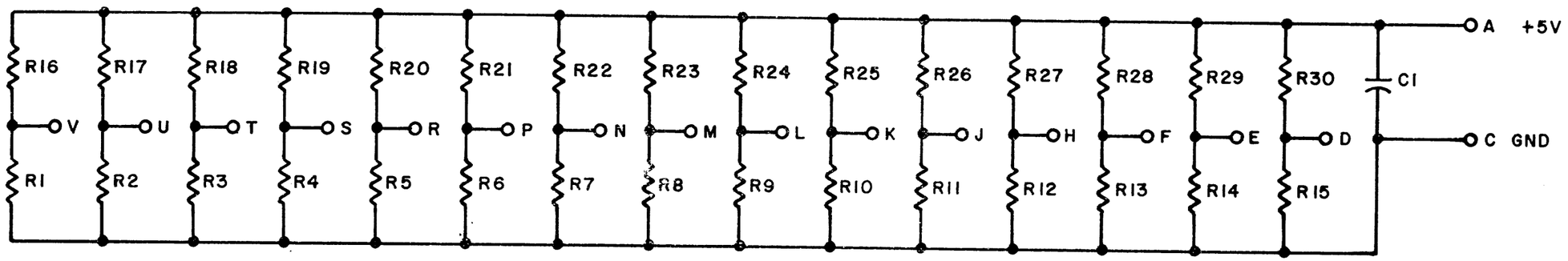

R16 - R30	RES. 1.8K 1/4W 10% CC	1301428
R1 - R15	RES. 3.3K 1/4W 5% CC	1300439
C1	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M002-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REVISIONS	REV.	CHG NO.	CHK

DRN. M. Waller	DATE 6-21-68	
CHK'D W Miller	DATE 6/26/68	
ENG. D Wilcox	DATE 7/8/68	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: 15 LOADS M002

SIZE	CODE	NUMBER	REV.
B	CS	M002-0-1	

PRINTED CIRCUIT REV. A

DIST. 324 434 435

DEC FORM NO.
DRB 102

PINK

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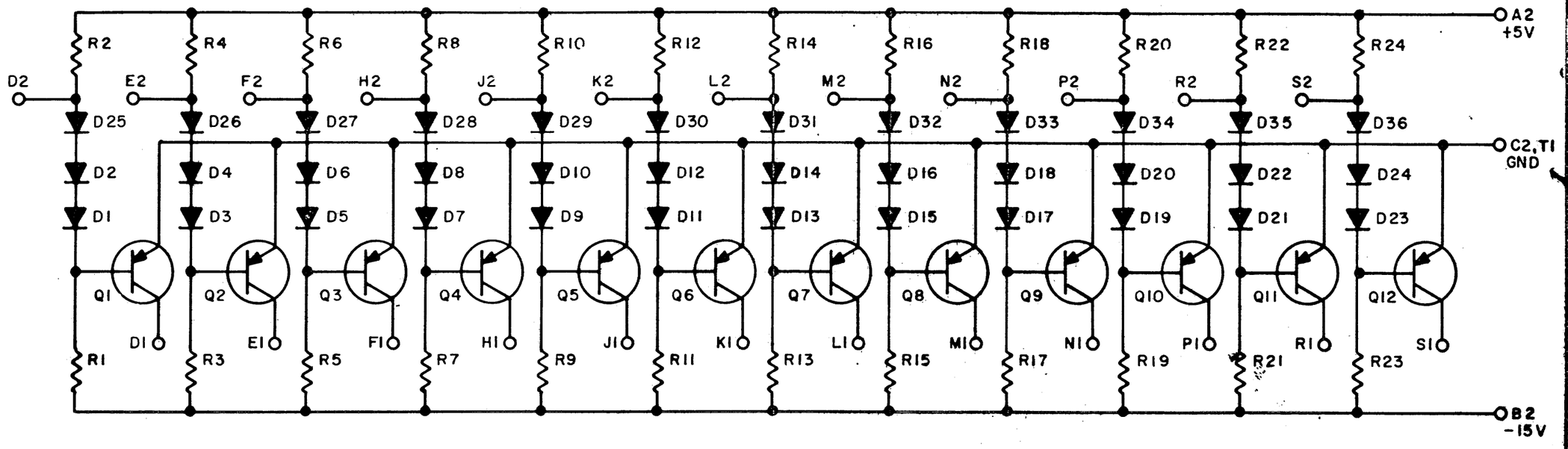
SIZE	CODE	NUMBER	REV.
B	CS	M051-0-1	



REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	
	PARTS LIST	A PL-M050-0-0
D1 - D36	DIODE D664	1100114
R1,R3,R5,R7,R9,R11,R13,R15,R17,R19, R21,R23	RES. 15K 1/4W 5% CC	1300496
R2,R4,R6,R8,R10,R12,R14,R16,R18 R20,R22,R24	RES. 1.5K 1/4W 5% CC	1300391
Q1 - Q12	TRANSISTOR DEC3639B	1502762

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D664	IN3606		

REVISIONS	REV	CHG NO	CHK

DRN	M. Keller	DATE	10-23-68
CHK'D	W. Mellow	DATE	10-28-68
ENG	[illegible]	DATE	12/11/68
PROD		DATE	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: LEVEL CONVERTER M051

SIZE	CODE	NUMBER	REV.
B	CS	M051-0-1	

PRINTED CIRCUIT REV A

Dist 324 434 435 2

DEC FORM NO
DRB 102

PINK 19

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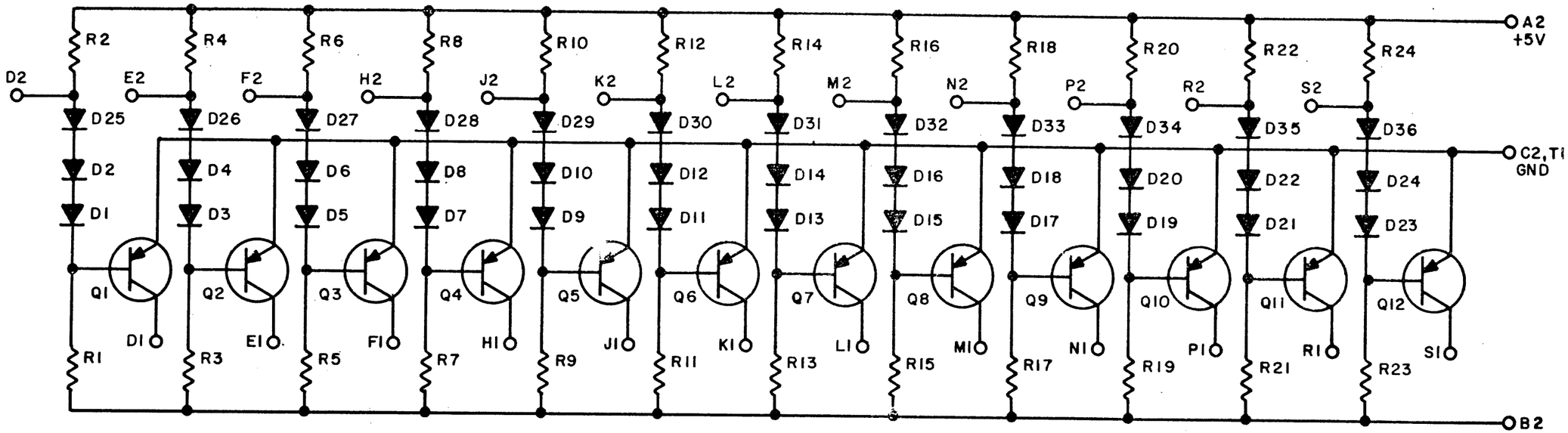

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A PL-M050-0-6
	DIODE D664	1100114
Q1 - Q12	TRANSISTOR DEC6534D	1503409
R20, R22, R24 R2, R4, R6, R8, R10, R12, R14, R16, R18	RES. 1.5K 1/4W 5% CC	1300391
R21, R23 R1, R3, R5, R7, R9, R11, R13, R15, R17, R19,	RES. 15K 1/4W 5% CC	1300496
D1 - D36		

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534D	MPS6534		
D664	IN3606		

REVISIONS			
REV.	C	D	
CHG NO.	6612	6896	
CHK	Paul	Paul	

DRN. M. Waller	DATE 5-25-67	
CHK'D	DATE 5-25-67	
ENG. J. Roberts	DATE 5-25-67	
PROD. 2	DATE	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE 50 MA INDICATOR AND RELAY DRIVER M050

SIZE	CODE	NUMBER	REV.
B	CS	M050-0-1	D

PRINTED CIRCUIT REV. B

DIST. 324 434 435²

PINK

DEC FORM NO.
DRB 102

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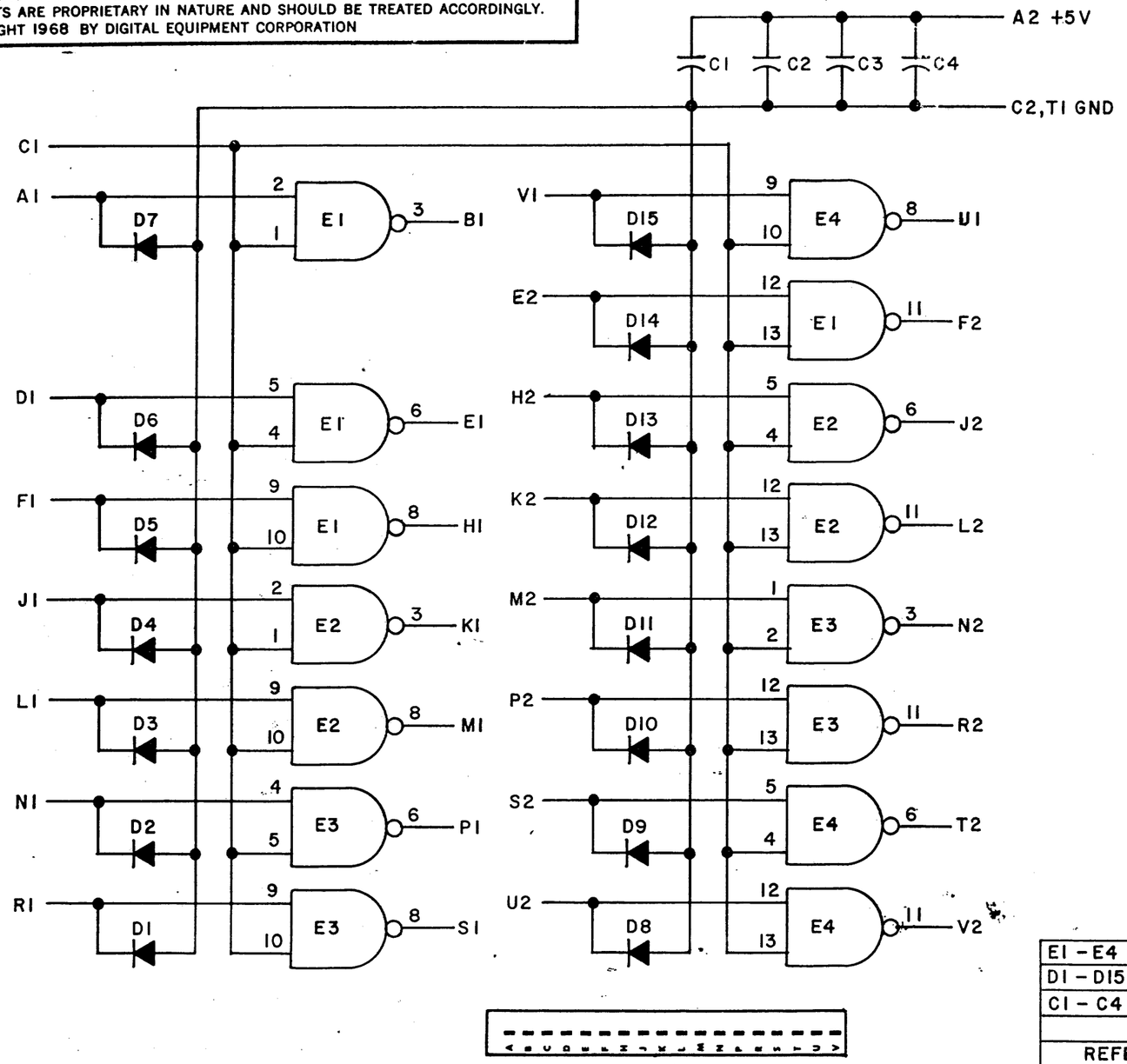

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M101-0-0
C1 - C4	CAP. .01MFD 100V 20% DISC	1001610
D1 - D15	DIODE D664	1100114
E1 - E4	INTEGRATED CKT. DEC7400N	1905575

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		

REVISIONS		
REV.	CHG NO.	CHK
B	00001	

DRN. M. Keller	DATE 8-5-68	
CHK'D	DATE 8-6-68	
ENG.	DATE 8/16/68	
PROD.	DATE	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: BUS DATA INTERFACE M101

SIZE	CODE	NUMBER	REV.
B	CS	M101-0-1	B

PRINTED CIRCUIT REV. A

DEC FORM NO. DRB 102

4 PINK

DIST. 324 434 435 2

SIZE B | CODE CS | NUMBER M101-0-1 | REV. B

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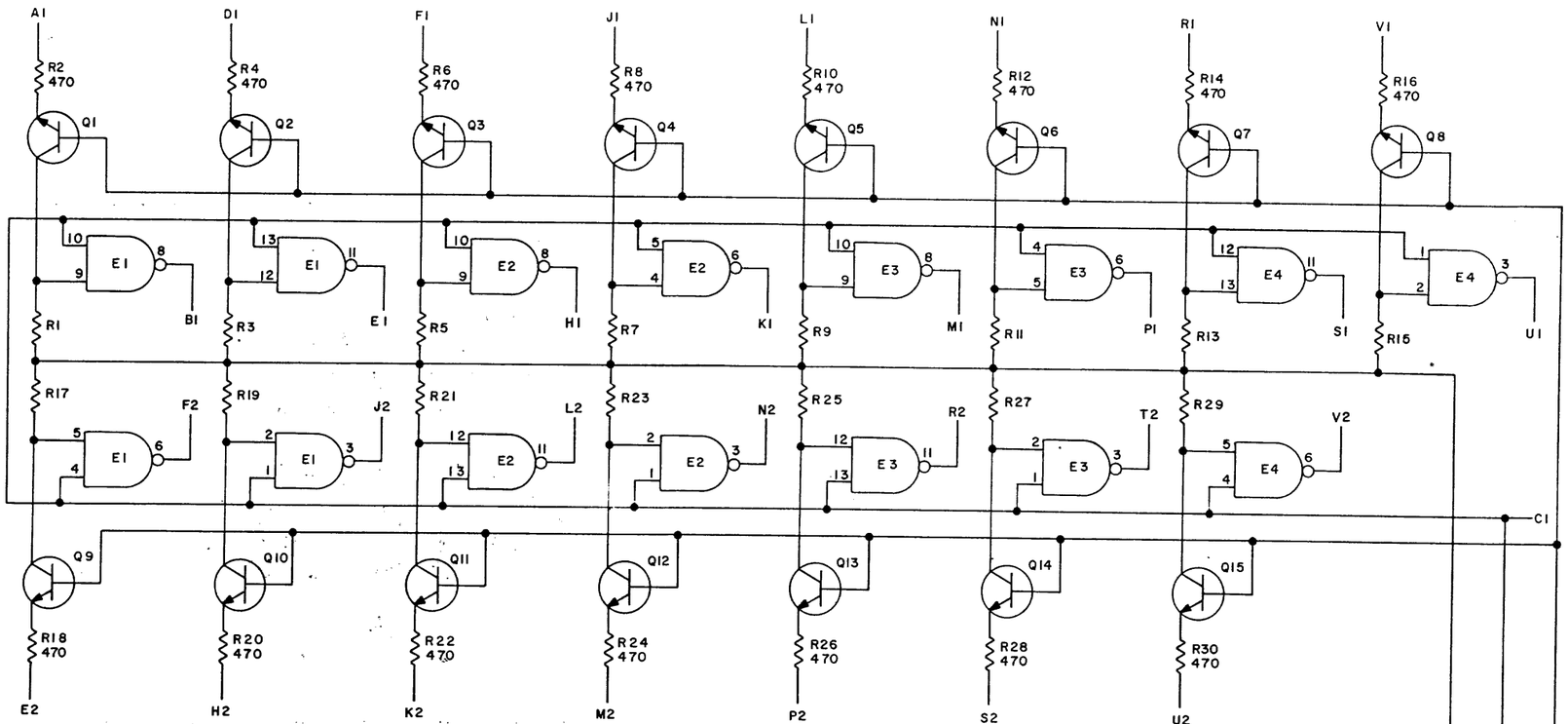

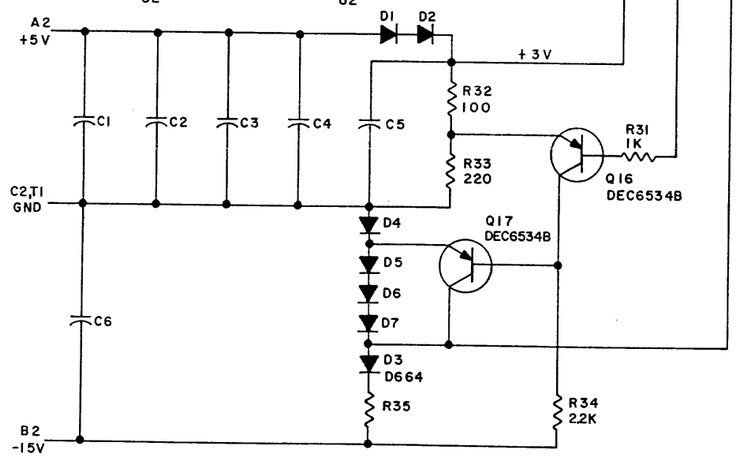

UNLESS OTHERWISE INDICATED:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
IC'S ARE DEC 7400N
CAPACITORS ARE .01 MFD
DIODES ARE D662
RESISTORS ARE 1/4W 5%
RESISTORS ARE 4.7K
TRANSISTORS ARE DEC3009B

REVISIONS			
CHK	CHG NO.	REV.	
KA	00001	B	

DRN.		DATE 3-21-69
CHK'D	M. Mantei	DATE 3/24/69
ENG.	L. Vopalensky	DATE 3-21-69
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		
DEC3009B	2N3009		
DEC6534B	MPS6534		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE BUS DATA INTERFACE M100

SIZE	CODE	NUMBER	REV.
C	CS	M100-0-1	B

PRINTED CIRCUIT REV. A

DEC FORM NO. DRC 102

DIST 324-1-1-1 435-3 5 PIN14

SIZE C | CODE CS | NUMBER M100-0-1 | REV. B

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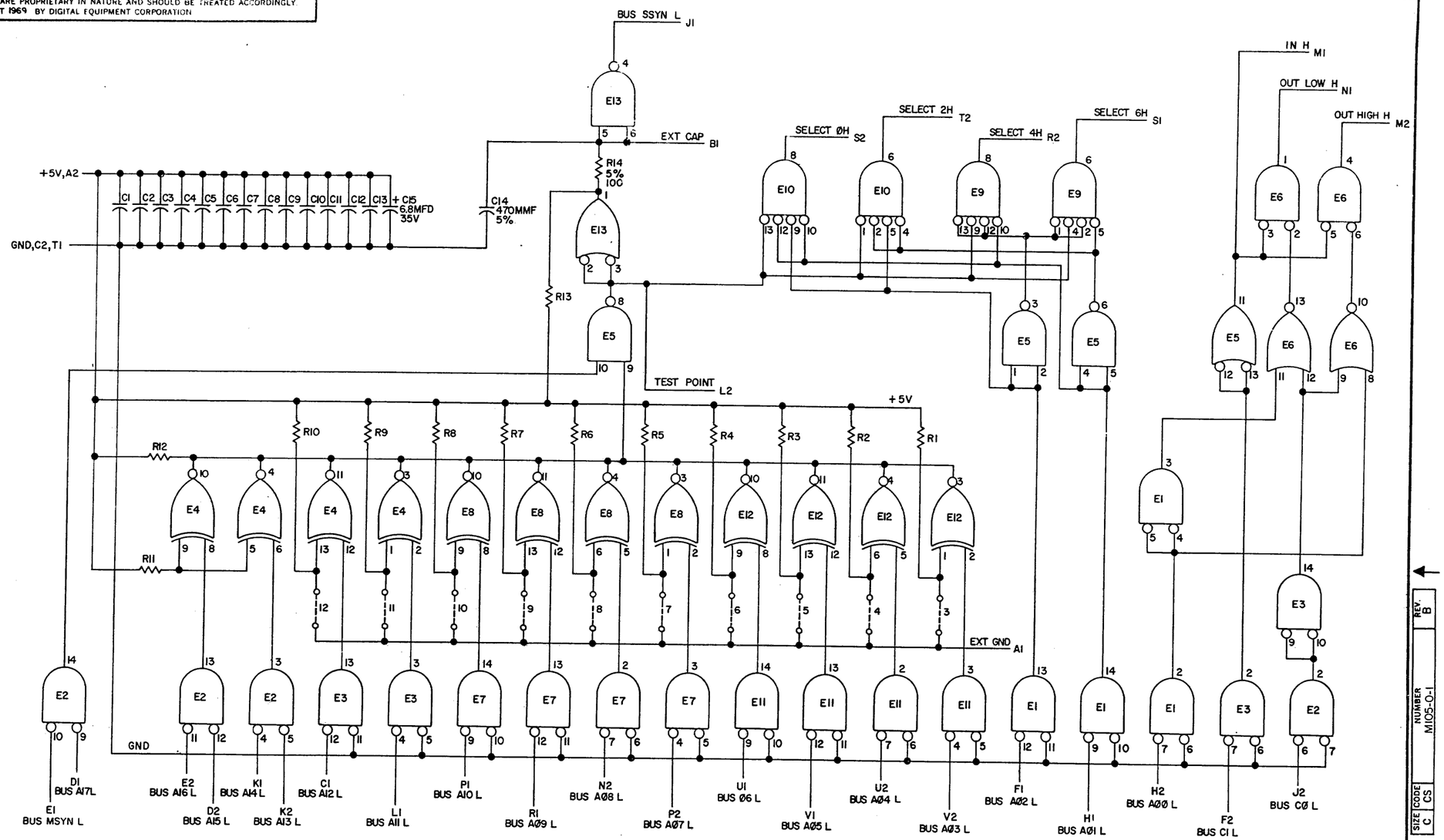

UNLESS OTHERWISE INDICATED:
- o----o INDICATES JUMPERS
- RESISTORS ARE 1K, 1/4W, 5%
- CAPACITORS ARE .01MFD, 100V, 20%
- E1, E2, E3, E7, E11 ARE DEC380
- E4, E8, E12 ARE DEC8242
- E9, E10 ARE DEC8815
- E5 IS DEC74H00
- E6 IS DEC7402
- E13 IS DEC8881

PIN 1 ON E1, E2, E3, E7, E11 = GND
PIN 8 ON E1, E2, E3, E7, E11 = +5V
PIN 7 ON E4, E5, E6, E8, E9, E10, E12, E13 = GND
PIN 14 ON E4, E5, E6, E8, E9, E10, E12, E13 = +5V

REVISIONS	CHK	CHG NO.	REV.
	TS	LRI 00002	A
			B

DRN.	L. Riley	DATE 11-26-69
CHK'D		DATE 1-9-70
ENG.		DATE 3-3-70
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: ADDRESS SELECTOR M105

SIZE	CODE	NUMBER	REV.
C	CS	M105-0-1	B

PRINTED CIRCUIT REV. C

DEC FORM NO. DRC 102

SIZE C | CODE CS | NUMBER M105-0-1 | REV. B

15-41-P6

Dist. ... 1345

5 Pink

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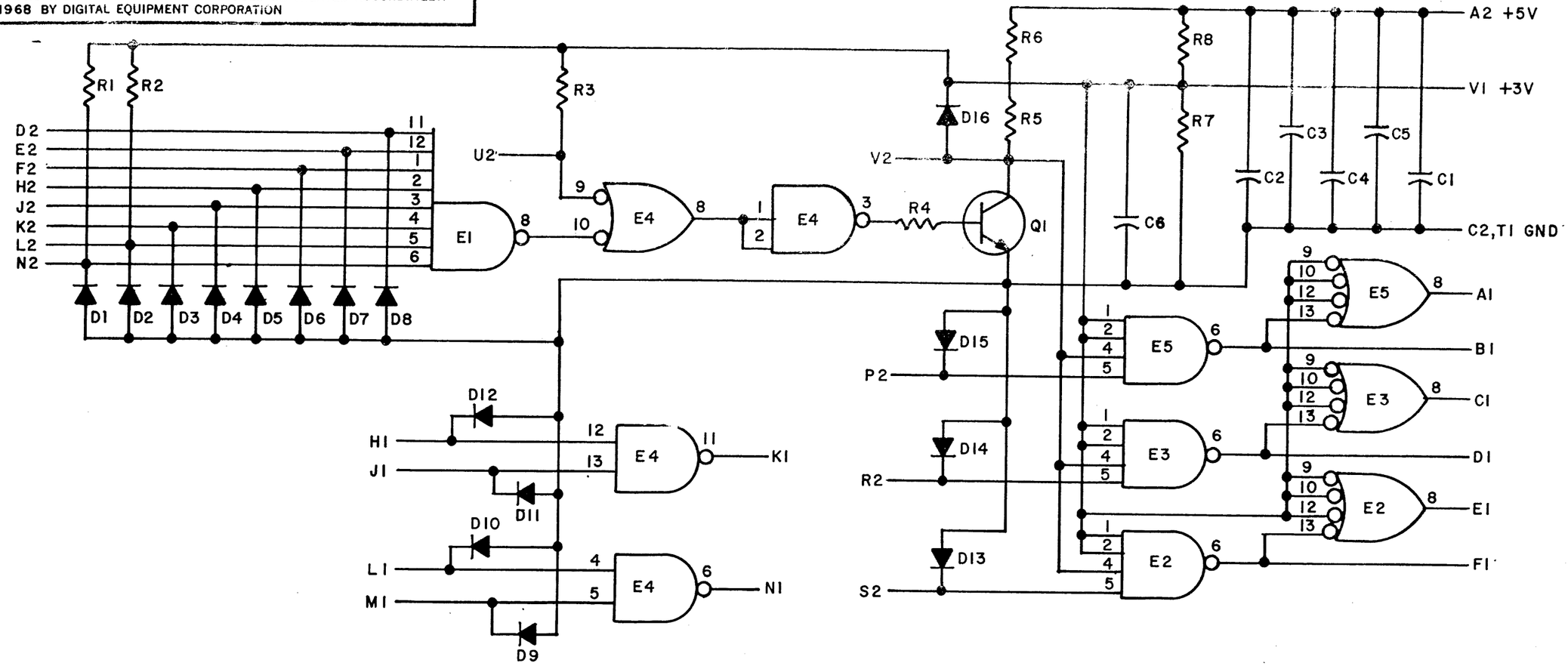

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M103-0-0
Q1	TRANSISTOR DEC3009B-S	1503100
E4	INTEGRATED CKT. DEC7400N	1905575
E2, E3, E5	INTEGRATED CKT. DEC74H40N	1905586
E1	INTEGRATED CKT. DEC7430N	1905578
R8	RES. 330 1/4W 5% CC	1300295
R4-R7	RES. 750 1/4W 5% CC	1301401
R1,R2,R3	RES. 8.2K 1/4W 5% CC	1303179
D1-D16	DIODE D664	1100114
C1-C6	CAP. .01MFD 100V 20% DISC	1001610

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	1N3606		

REVISIONS	CHK	CHG NO.	REV.
		00001	A
		00002	C

DRN. M. Keller	DATE	10-4-68
CHK'D G. Younger	DATE	3-12-69
ENG. J. Laughlin/KP	DATE	11/27/68
PROD.	DATE	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DEVICE SELECTOR M103

SIZE	CODE	NUMBER	REV.
B	CS	M103-0-1	C

PRINTED CIRCUIT REV. B

DIST: 324 434 4351 PINK

DEC FORM NO. DRB 102

4

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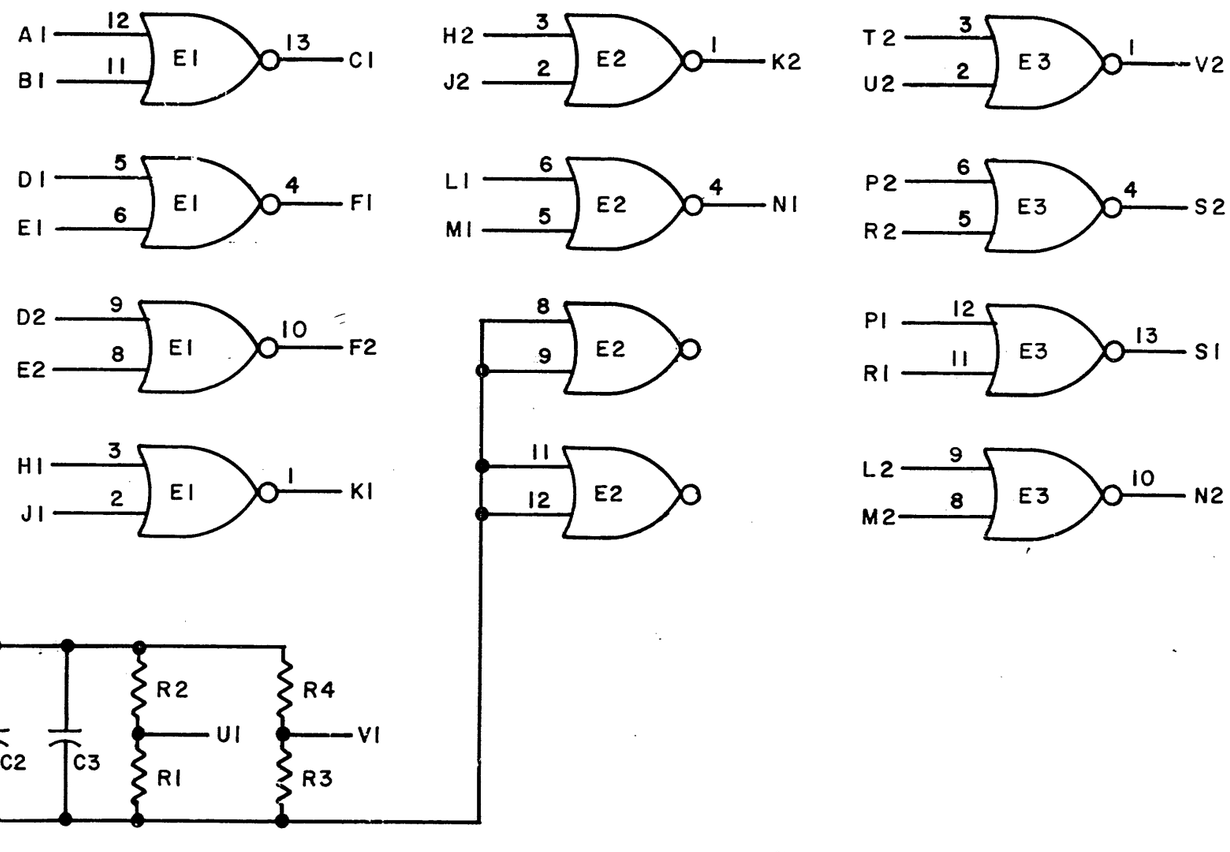

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M112-0-0
C1,C2,C3	CAP. .01MFD 100V 20% DISC	1001610
E1,E2,E3	INTEGRATED CKT. DEC7402N	1909004
R2,R4	RES. 330 1/4W 5% CC	1300295
R1,R3	RES. 750 1/4W 5% CC	1301401

PARTS LIST

REVISIONS	REV.	CHG NO.	CHK
	A	00001	MM
	C	00002	
	D	00003	

		DATE
DRN.	M. Waller	2-20-68
CHK'D		2/20/68
ENG.	G. Pickrell	3/7/68
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: NOR GATE M112

SIZE	CODE	NUMBER	REV.
B	CS	M112-0-1	D

PRINTED CIRCUIT REV. D

DIST. 324 434 435 (5) PINK

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	M111-0-1	A

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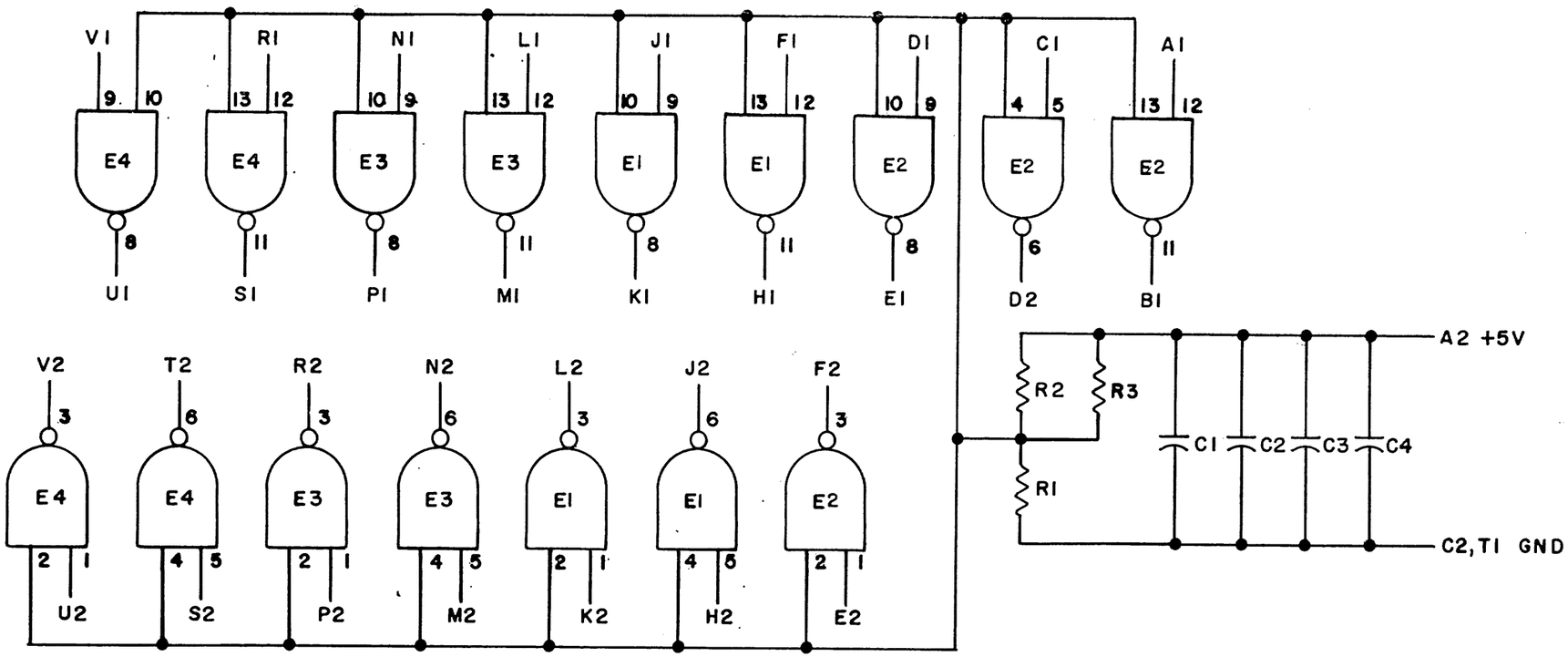

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M111-0-0
C1-C4	CAP. .01MFD 100V 20% DISC	1001610
R1-R3	RES. 750 1/4W 5% CC	1301401
E1-E4	INTEGRATED CKT. DEC7400N	1905575

PARTS LIST

REVISIONS		
CHK	CHG NO.	REV.
	00001	A

DRN.	M. Waller	DATE 5-31-68
CHK'D	M. Waller	DATE 6/11/68
ENG.	John Eggert	DATE 7/5/68
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: INVERTER M111

SIZE	CODE	NUMBER	REV.
B	CS	M111-0-1	A

PRINTED CIRCUIT REV. C

DEC FORM NO.
DRB 102

DIST 434 435 324

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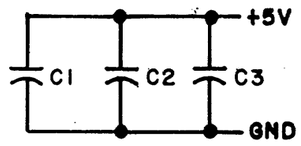
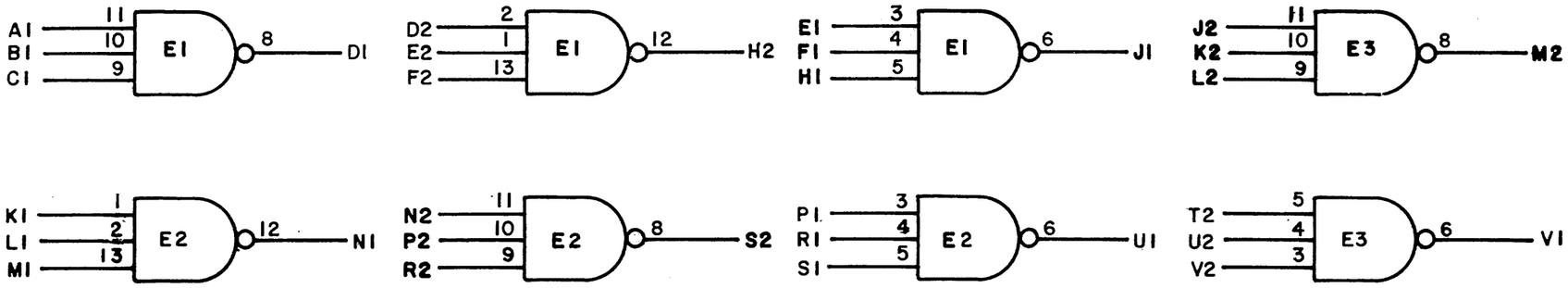
+5V — A2
NOT USED -15V — B2
GND — C2, T1





NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M115-0-0
C1 THRU C3	CAP. .01MFD 100V 20% DISC	1001610
E1 THRU E3	INTEGRATED CKT. DEC7410N	1905576

PARTS LIST

REVISIONS			
REV.	A	B	C
CHG NO.	3423	6800	00001
CHK			MM

DRN. M. Waller	DATE 4-20-67	
CHK'D	DATE 4-21-67	
ENG. L. White	DATE 4/21/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE 8-3 INPUT NAND GATES M115

SIZE	CODE	NUMBER	REV.
B	CS	M115-0-1	C

PRINTED CIRCUIT REV. D

DEC FORM NO.
DRB 102

PINK

DIST. 2 4 4 33 - 1

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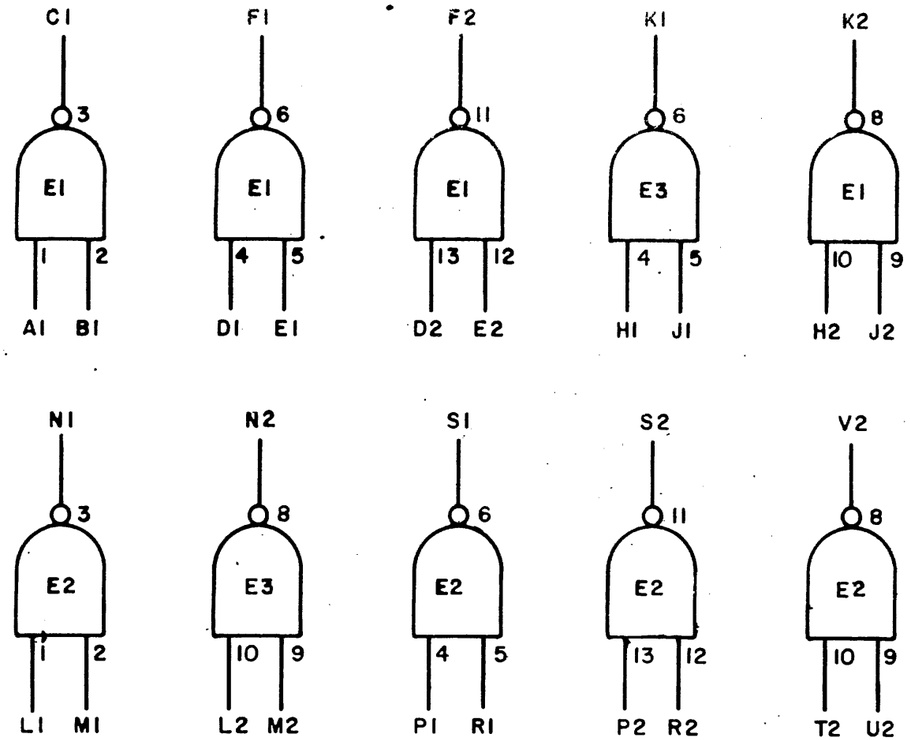
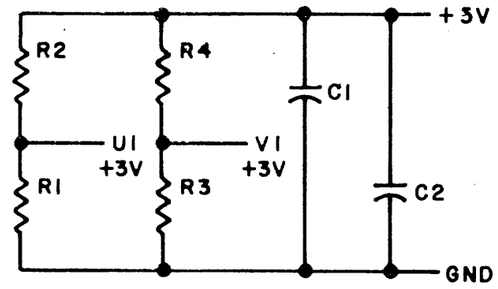
+5V ——— A2
NOT USED −15V ——— B2
GND ——— C2, T1





NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

PARTS LIST

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M113-0-0
C1 AND C2	CAP. .01MFD 100V 20% DISC	1001610
R2 AND R4	RES. 330 1/4W 10% CC	1300293
R1 AND R3	RES. 750 1/4W 5% CC	1301401
E1 THRU E3	INTEGRATED CKT. DEC7400N	1905575

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

REVISIONS	CHK	CHG NO.	REV.
		6425	A
		6801	B
		00001	C

DRN. M. Haller	DATE 3-15-67	
CHK'D. M. Seymour	DATE 4-21-67	
ENG. L. White	DATE 4-21-67	
PROD.	DATE	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 10-2 INPUT NAND GATES M113.

SIZE	CODE	NUMBER	REV.
B	CS	M113-0-1	C

PRINTED CIRCUIT REV. D

DEC FORM NO. DRB 102

PINK

DIST. 324 434 435

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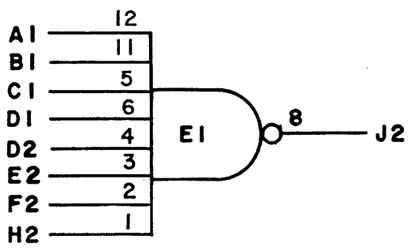
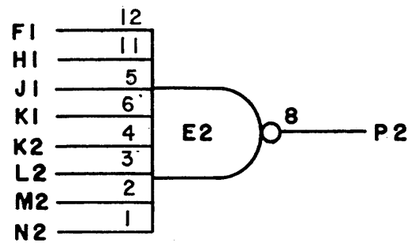
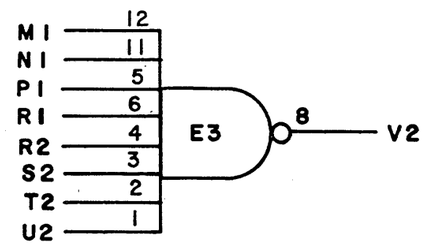
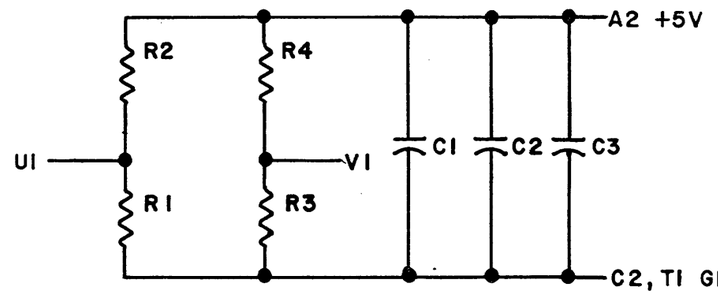






NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V



REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M119-0-0
C1 THRU C3	CAP. .01MFD 100V 20% DISC	1001610
R1 & R3	RES. 750 1/4W 5% CC	1301401
R2 & R4	RES. 330 1/4W 10% CC	1300293
E1 THRU E3	INTEGRATED CKT. DEC7430N	1905578

PARTS LIST

REVISIONS			
REV.	A	B	
CHG NO.	6804	00001	
CHK	Paul	MM	

DRN.	M. Waller	DATE 8-1-67
CHK'D	R. Silverman	DATE 8/4/67
ENG.	Glen Puckett	DATE 8/7/67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE 3-8 INPUT NAND-GATES M119

SIZE	CODE	NUMBER	REV.
B	CS	M119-0-1	B

PRINTED CIRCUIT REV. C

DIST. 324 434 435

PINK

DEC FORM NO.
DRB 102

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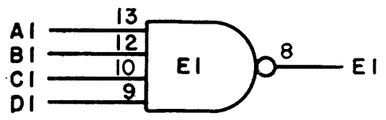
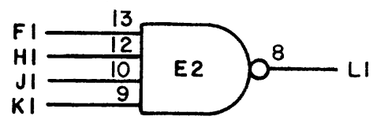
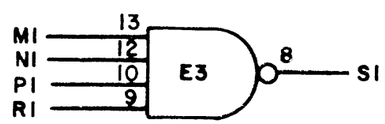
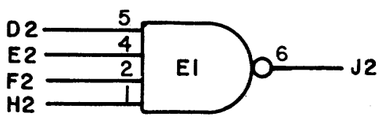
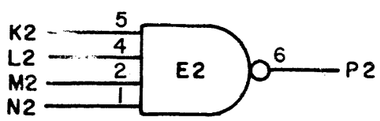
+5V — A2
NOT USED -15V — B2
GND — C2, T1

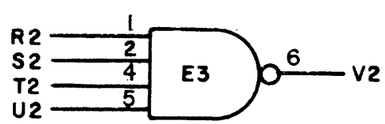


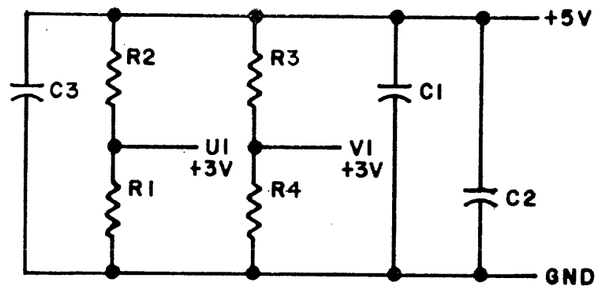












NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M117-0-0
E1 THRU E3	INTEGRATED CKT. DEC7420N	1905577
R1 & R4	RES. 750 1/4W 5% CC	1301401
R2 & R3	RES. 330 1/4W 10% CC	1300293
C1 THRU C3	CAP. .01MFD 100V 20% DISC	1001610

PARTS LIST

REVISIONS	REV.	CHG NO.	CHK
	A	6424	
	B	6799	
	C	00001	MM
	E	00002	

DRN. M. Waller	DATE 3-15-67	
CHK'D	DATE 4-21-67	
ENG. L. White	DATE 4-21-67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE 6-4 INPUT NAND GATES M117

SIZE	CODE	NUMBER	REV.
B	CS	M117-0-1	E

PRINTED CIRCUIT REV. E

DIST. 324 434 435 3

DEC FORM NO.
DRB 102

PINK

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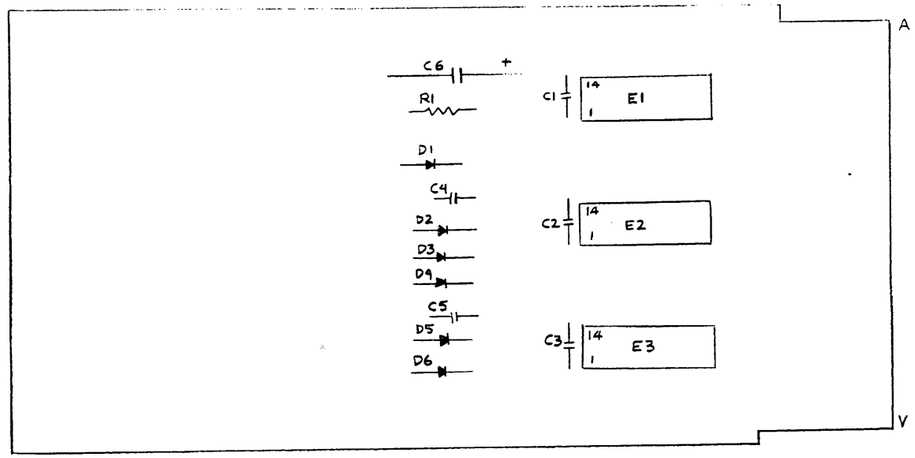

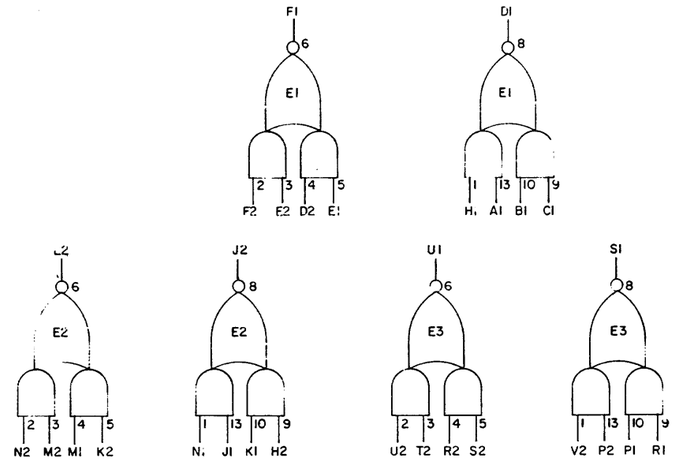

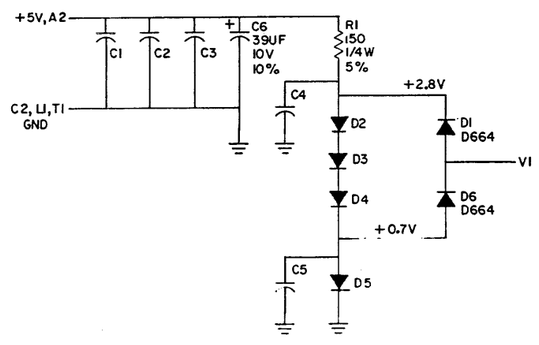

UNLESS OTHERWISE INDICATED:
CAPACITORS = .01UF, 100V, 20%
DIODES = D662
IC'S = DEC1074H50
PIN 7 = GND
PIN 14 = +5V ON ALL IC'S

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
12	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
11	9006732	EYELET #GS 4-7	2
10	1910812	I.C. DEC 1074H50	3
9	1300250	RES. 150, ¼W, 5%	1
8	1100114	DIODE D664	2
7	1100113	DIODE D662	4
6	1001610	CAP. .01UF, 100V, 20% DISC	5
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009295	ETCHED CIRCUIT BOARD	1
3	B-MH-M126-0-6	MODULE ECO HISTORY	
2	C-AH-M126-0-5	ASSY/DRILING HOLE LAYOUT	
1	K-CC-M126-0-4	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645	D664	IN3606

REVISIONS: CHK | CHG NO | REV: 00001 | B

DRN NANCY MOORE DATE 12/8/70
CHK'D DATE 1/4/71
ENG DATE
PROD DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: SIX 2-2 AND-NOR GATES M126

SIZE	CODE	NUMBER	REV
C	CS	M126-0-1	B

PRINTED CIRCUIT REV B

REV B | NUMBER M126-0-1 | SIZE C | CODE CS

DEC FORM NO.

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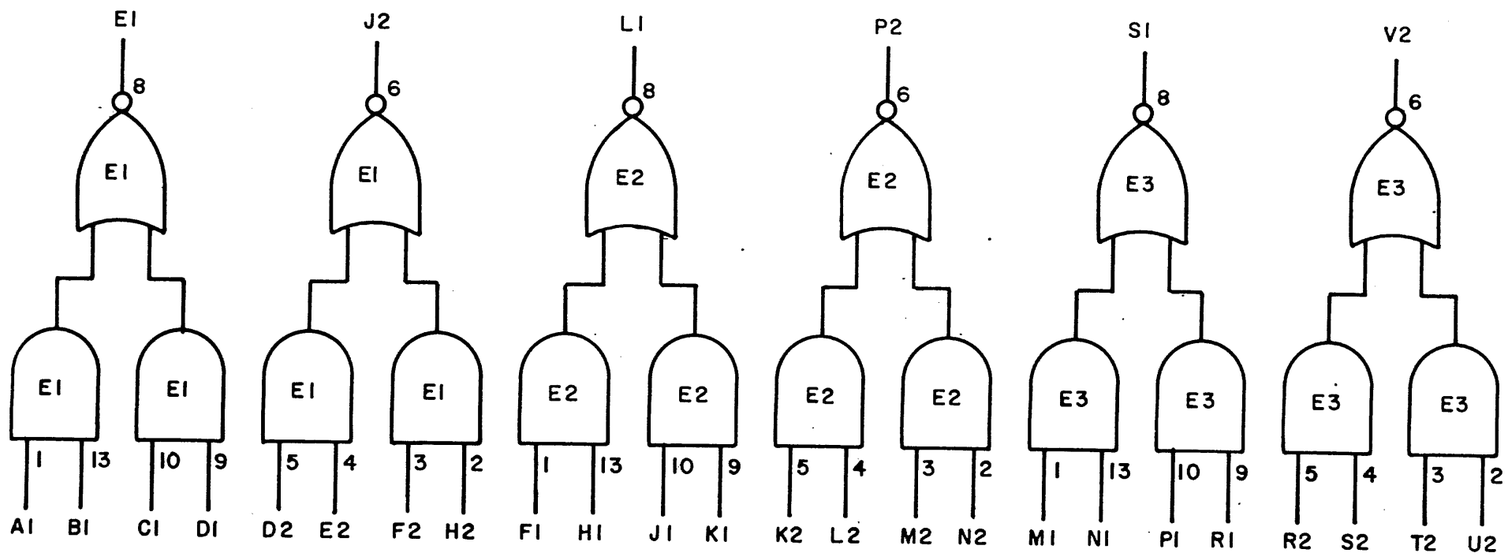

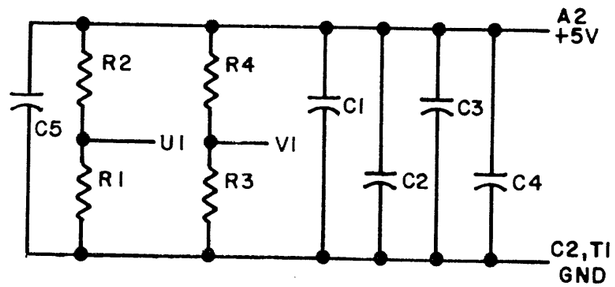

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M121-0-0
C1 THRU C5	CAP. .01 MFD 100V 20% DISC	1001610
R1 & R3	RES. 750 1/4W 5% CC	1301401
R2 & R4	RES. 330 1/4W 10% CC	1300293
E1 THRU E3	INTEGRATED CKT. DEC7450N	1905580

PARTS LIST

REVISIONS	REV.	CHG NO.	CHK
	A	6802	MW
	B	00001	
	C	00002	

DRN.	M. Waller	DATE 4-21-67
CHK'D		DATE 4-21-67
ENG.	L. White	DATE 4-21-67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: AND-NOR GATE M121

SIZE	CODE	NUMBER	REV.
B	CS	M121-0-1	C

PRINTED CIRCUIT REV. D

DEC FORM NO.
DRB 102

PINK

DIST 324 434 4353 15

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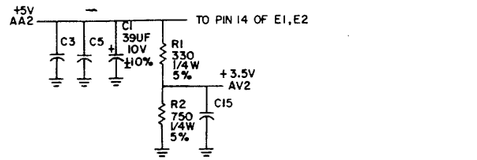

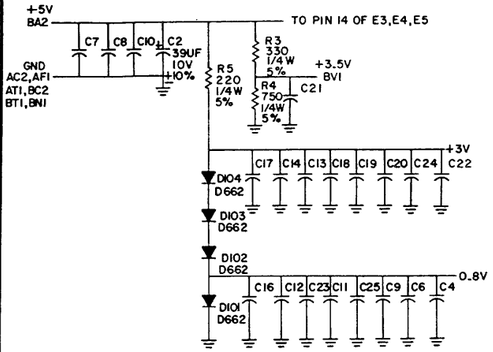

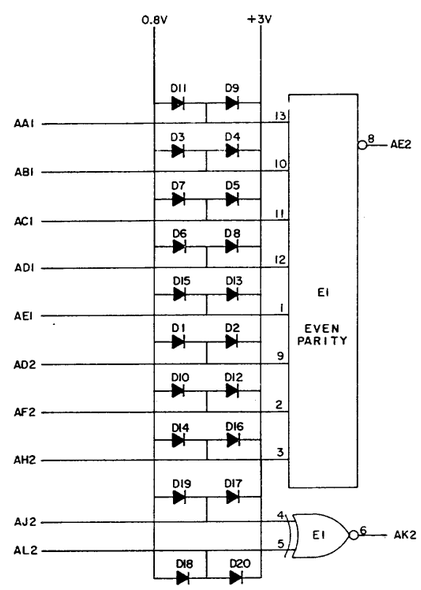

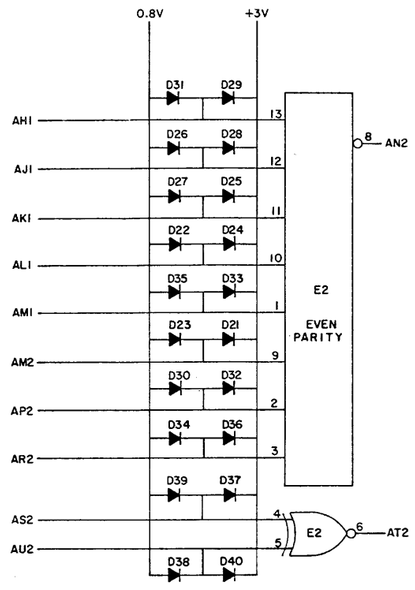

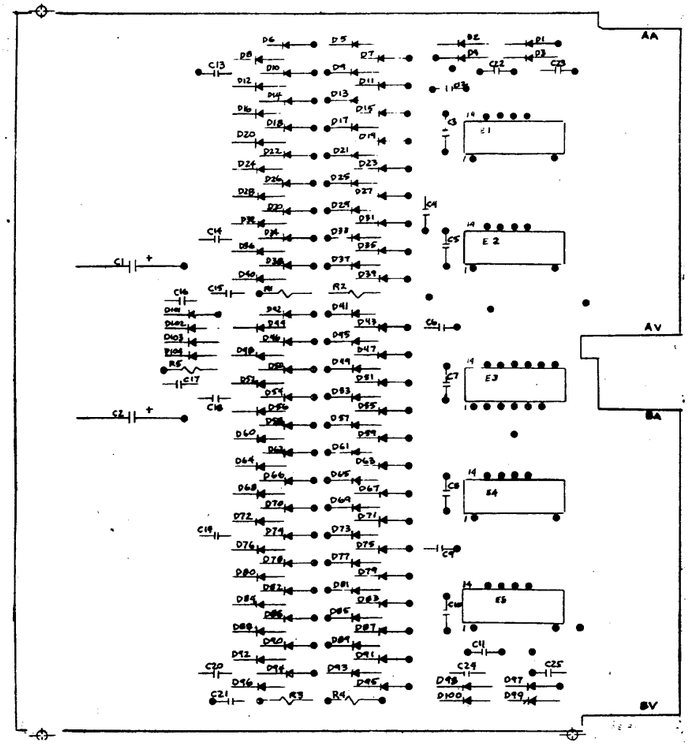

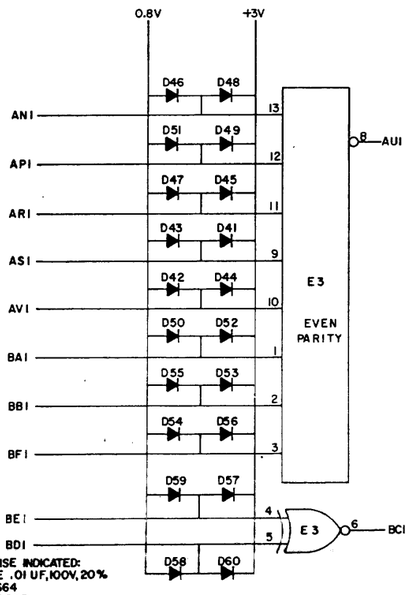

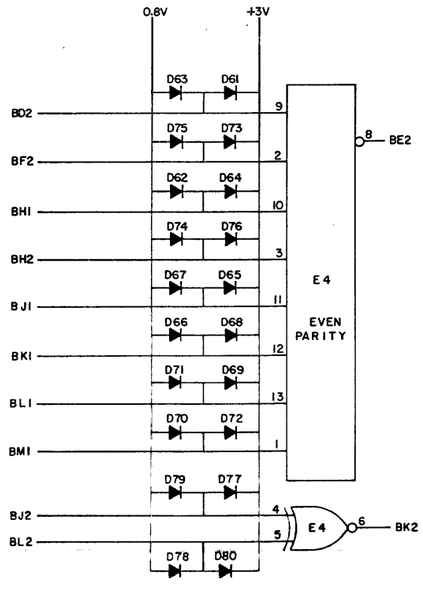

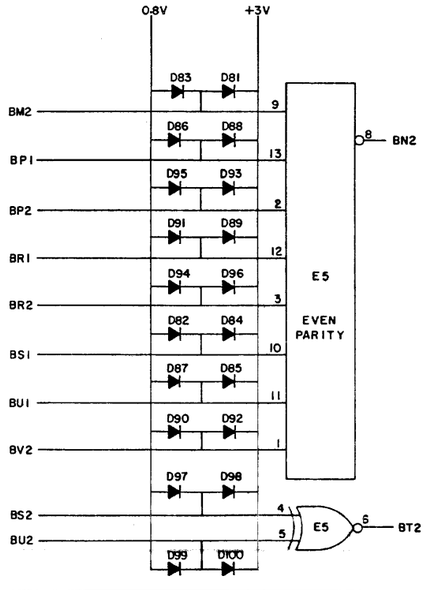

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01 UF,100V,20%
DIODES ARE D664
IC'S ARE DEC 4008P
PIN 7=GND
PIN 14=+5V ON ALL IC'S

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
14	9008337-06	HANDLE, FLIP CHIP - MAGENTA	2
13	9006732	EYELET #GS 4-7	4
12	1910270	I.C. DEC4008P	5
11	1301401	RES. 750, ¼W, 5%	2
10	1300295	RES. 330, ¼W, 5%	2
9	1300271	RES. 220, ¼W, 5%	1
8	1100114	DIODE D664	100
7	1100113	DIODE D662	4
6	1001610	CAP. .01UF, 100V, 20%	23
5	1000076	CAP. 39UF, 10V, 10% S. TANT	2
4	5009373	ETCHED CIRCUIT BOARD	1
3	B-M1-M130-0-6	MODULE ECO HISTORY	
2	D-AH-M130-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CC-M130-C-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

REVISIONS			
CHR	CHG NO	REV	
	00001	B	

DRN	J. Cooper	12/4/70
CHK'D		DATE
ENG	T.J. Sloan	1/11/71
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		
D662	IN645		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE PARITY CHECKERS AND GATES M130

SIZE	CODE	NUMBER	REV.
D	CS	M130-0-1	B

PRINTED CIRCUIT REV. C

DEC FORM NO. 060 116

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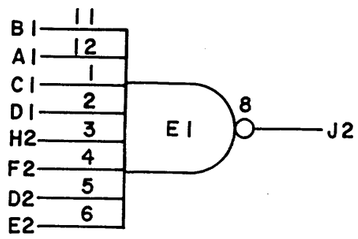
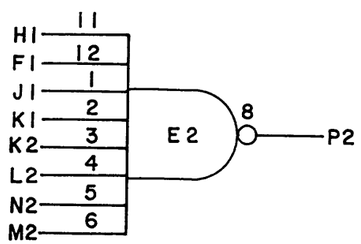
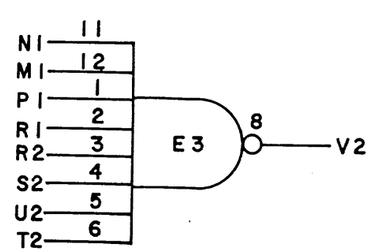
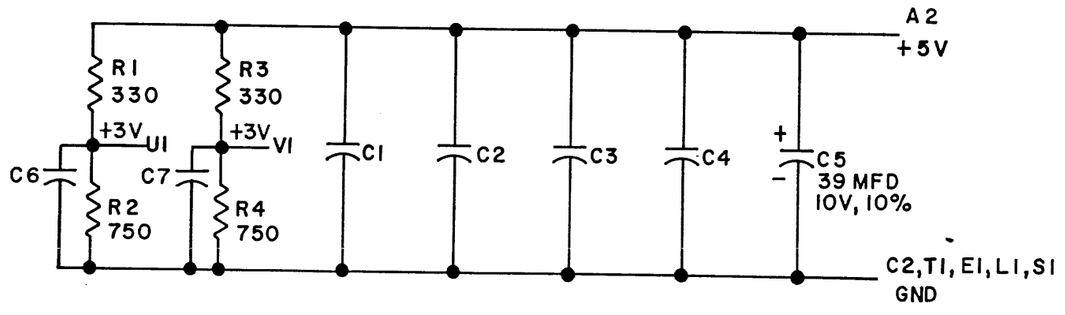






UNLESS OTHERWISE INDICATED:
IC'S ARE DEC1074H30
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
CAPACITORS ARE .01 MFD, 100V, 20%
RESISTORS ARE 1/4W, 5%



REVISIONS	REV.	CHG NO.	CHK
	B	00001	PT.
	C	00002	
	D	00003	MM

DRN.		DATE 3-4-69
CHK'D	A. Yanga	DATE 3-6-69
ENG.	DEO'Connor	DATE 4-7-69
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
3-8 INPUT NAND GATE M139

SIZE	CODE	NUMBER	REV.
B	CS	M139-0-1	D.

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

DIST. 334, 434, 432

PINK

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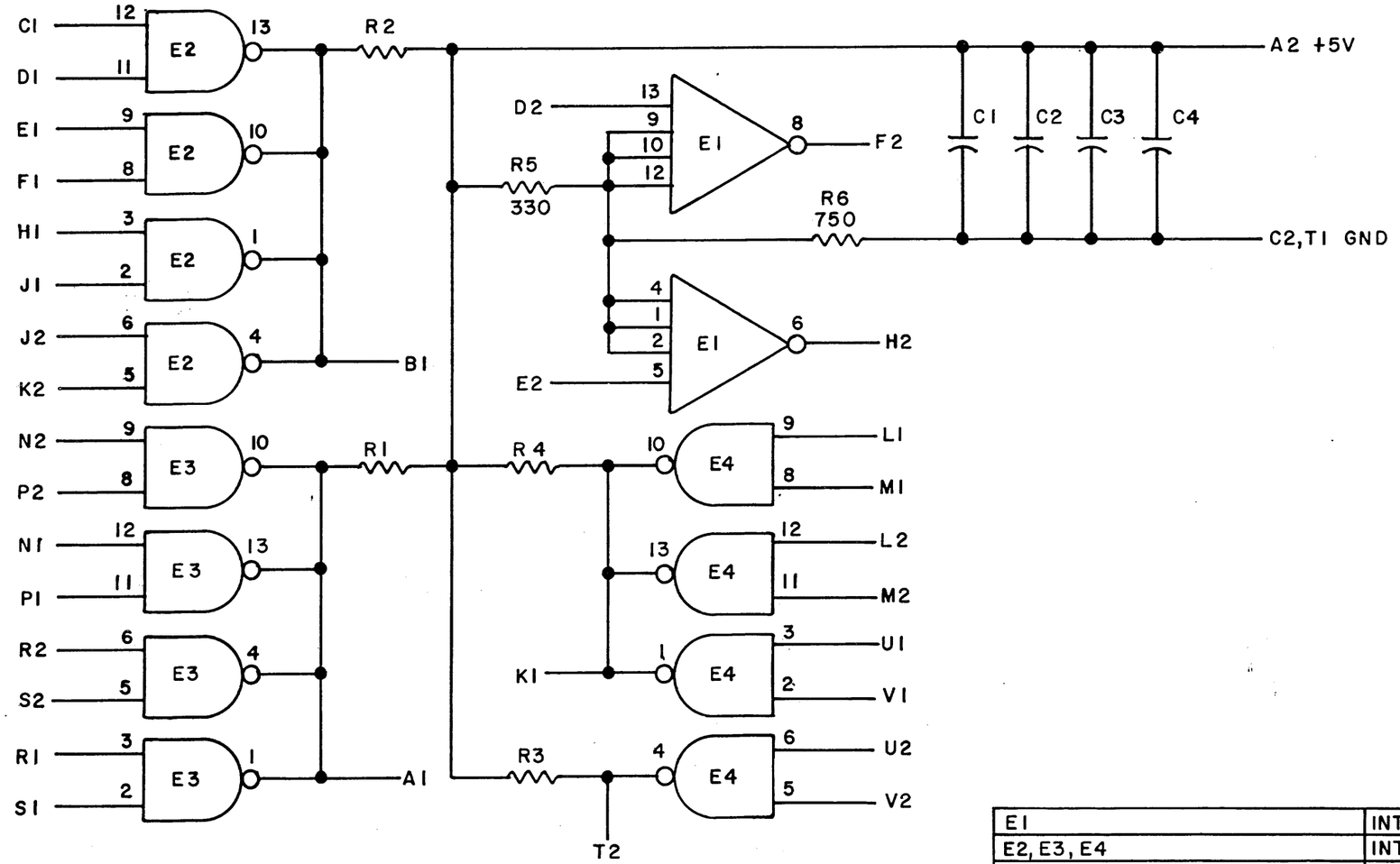

NOTE:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	
E1	INTEGRATED CKT. DEC7420N	1905577
E2, E3, E4	INTEGRATED CKT. DEC7401N	1905590
R6	RES. 750 1/4W 5% CC	1301401
R5	RES. 330 1/4W 10% CC	1300293
R1 THRU R4	RES. 1.5K 1/4W 5% CC	1300391
C1 THRU C4	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M141-0-0

PARTS LIST

REVISIONS			
REV.	CHG NO.	CHK	
B	00001		REDRAWN 6803 A

DRN. M.HALLER	DATE 10-6-67	
CHK'D R.SILVERMAN	DATE 10-13-67	
ENG. L.WHITE	DATE 10-13-67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: AND/NOR GATES M141

SIZE	CODE	NUMBER	REV.
B	CS	M141-0-1	B

PRINTED CIRCUIT REV. C

DIST. 324 434 435

DEC FORM NO.
DRB 102

PINK

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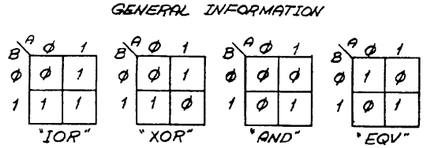
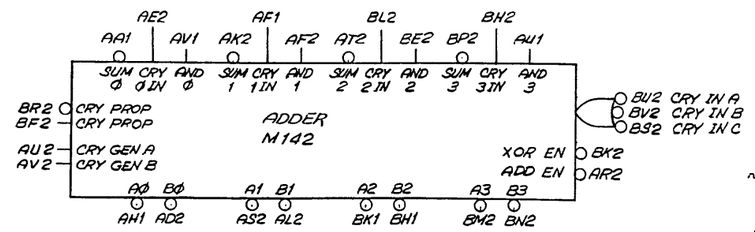
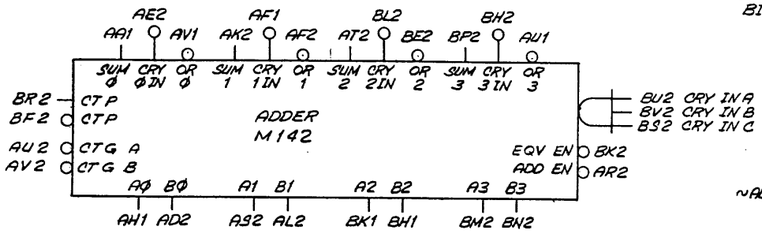
GENERAL INFORMATION



A_n "+" B_n = $A_n \forall B_n \forall CRY_n IN$
= $(A_n \wedge \sim B_n \wedge \sim CRY_n IN) \vee$
$(\sim A_n \wedge B_n \wedge \sim CRY_n IN) \vee$
$(\sim A_n \wedge \sim B_n \wedge CRY_n IN) \vee$
$(A_n \wedge B_n \wedge CRY_n IN)$



M142 USED FOR LOW INPUTS



M142 USED FOR HIGH INPUTS

THE SUM OUTPUTS REPRESENT VARIOUS FUNCTIONS DEPENDING ON THE ENABLES

	~XOR EN	XOR EN
~ADD EN	SUM = A "IOR" B	SUM = A "XOR" B
ADD EN	SUM = NON-STANDARD FUNCTION	SUM = A "+" B

THE NON-STANDARD FUNCTION DEPENDS UPON CARRIES AND IS DIFFERENT FOR DIFFERENT BITS.

THE SUM OUTPUTS REPRESENT VARIOUS FUNCTIONS DEPENDING ON THE ENABLES

	~EQV EN	EQV EN
~ADD EN	SUM = A "AND" B	SUM = A "EQV" B
ADD EN	SUM = NON-STANDARD FUNCTION	SUM = A "+" B

THE NON-STANDARD FUNCTION DEPENDS UPON CARRIES AND IS DIFFERENT FOR DIFFERENT BITS.

THE AND OUTPUTS REPRESENT THE "AND" OF THE INPUTS

THE CRY$_n$ IN OUTPUTS REPRESENT THE PROPER CARRY IN TO THE PARTICULAR BIT FOR ADDITION. CRY 1 IN IS THE PROPER CARRY TERM ONLY WHEN ADD EN AND XOR EN ARE ASSERTED. CRY 1 IN IS ASSERTED IF XOR EN IS NOT ASSERTED. CRY 1 IN IS NOT ASSERTED IF XOR EN IS ASSERTED BUT ADD EN IS NOT ASSERTED. THE OTHER CRY$_n$ IN OUTPUTS ARE ALWAYS THE PROPER CARRY INTO THE PARTICULAR BITS.

THE OR OUTPUTS REPRESENT THE "OR" OF THE INPUTS

THE CRY$_n$ IN OUTPUTS REPRESENT THE PROPER CARRY IN TO THE PARTICULAR BIT FOR ADDITION. CRY 2 IN IS THE PROPER CARRY TERM ONLY WHEN ADD EN AND EQV EN ARE ASSERTED. CRY 1 IN IS NOT ASSERTED IF EQV EN IS NOT ASSERTED. CRY 1 IN IS ASSERTED IF EQV EN IS ASSERTED BUT ADD EN IS NOT ASSERTED. THE OTHER CRY$_n$ IN OUTPUTS ARE ALWAYS THE PROPER CARRY INTO THE PARTICULAR BITS.

FOR LOW INPUTS

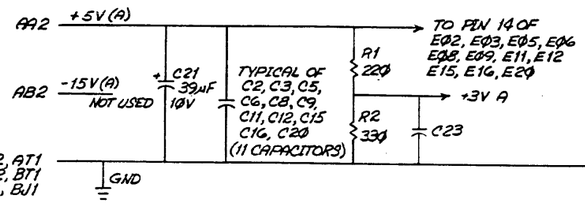
CRY 3 IN = CRY IN A ∨ CRY IN B ∨ CRY IN C
CRY 2 IN = (CRY 3 IN ∧ A3) ∨ (CRY 3 IN ∧ B3) ∨ (A3 ∧ B3)
CRY 1 IN* = (CRY 2 IN ∧ A2) ∨ (CRY 2 IN ∧ B2) ∨ (A2 ∧ B2)
CRY 1 IN = (CRY 1 IN* ∧ ADD EN) ∨ ~XOR EN
CRY Ø IN = (CRY 1 IN* ∧ A1) ∨ (CRY 1 IN* ∧ B1) ∨ (A1 ∧ B1)
CRY PROP = (A3 ∨ B3) ∧ (A2 ∨ B2) ∧ (A1 ∨ B1) ∧ (AØ ∨ BØ)
CRY GEN = {AØ ∧ BØ} ∨ {A1 ∧ B1 ∧ (AØ ∨ BØ)} ∨ {A2 ∧ B2 ∧ (A1 ∨ B1) ∧ (AØ ∨ BØ)} ∨ {A3 ∧ B3 ∧ (A2 ∨ B2) ∧ (A1 ∨ B1) ∧ (AØ ∨ BØ)}

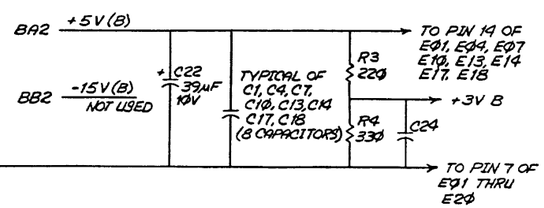
FOR HIGH INPUTS

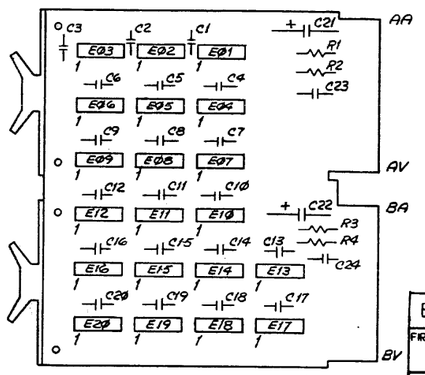
CRY 3 IN = CRY IN A ∧ CRY IN B ∧ CRY IN C
CRY 2 IN = (CRY 3 IN ∧ A3) ∨ (CRY 3 IN ∧ B3) ∨ (A3 ∧ B3)
CRY 1 IN* = (CRY 2 IN ∧ A2) ∨ (CRY 2 IN ∧ B2) ∨ (A2 ∧ B2)
CRY 1 IN = (CRY 1 IN* ∧ EQV EN) ∨ (~ADD EN ∧ EQV EN)
CRY Ø IN = (CRY 1 IN* ∧ A1) ∨ (CRY 1 IN* ∧ B1) ∨ (A1 ∧ B1)
CTP = (A3 ∧ B3) ∨ (A2 ∧ B2) ∨ (A1 ∧ B1) ∨ (AØ ∧ BØ)
CTG = {AØ ∧ BØ} ∨ {A1 ∧ B1 ∧ (AØ ∨ BØ)} ∨ {A2 ∧ B2 ∧ (A1 ∨ B1) ∧ (AØ ∨ BØ)} ∨ {(A3 ∨ B3) ∧ (A2 ∨ B2) ∧ (A1 ∨ B1) ∧ (AØ ∨ BØ)}

NOTE SUBTLE DIFFERENCE FROM CRY GEN ABOVE

UNLESS OTHERWISE INDICATED:
IC'S ARE DEC 1074H - - N AS NOTED
CAPACITORS ARE .Ø1 μF 1ØØV
RESISTORS ARE 1/4 W







NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS	CHK	CHANGE NO.	REV.
		M142-00001 K. Thomas 6-20-71 WALTON	A
		M142-00002 W.D. WALTON	B
		M142-00003 B.J. Nelson 7-12-72 B. WALTON	C

ETCH REV A

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

UNLESS OTHERWISE SPECIFIED
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES TOLERANCES DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30' FINAL SURFACE QUALITY REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH
NEXT HIGHER ASSY
SCALE
SHEET 1 OF 2

DRN.	W. Stephenson	DATE 9/1/70
CHK'D.		DATE 3-3-71
ENG.		DATE 3-3-71
PROJ. ENG.		DATE 3-3-71
PROD.		DATE

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE
M142
4 BIT
ADDER

SIZE	CODE	NUMBER	REV.
D	CS	M142-Ø-1	C

DIST.

DEC FORM NO CPD 102A

SIZE D CODE CS NUMBER M142-Ø-1 REV C

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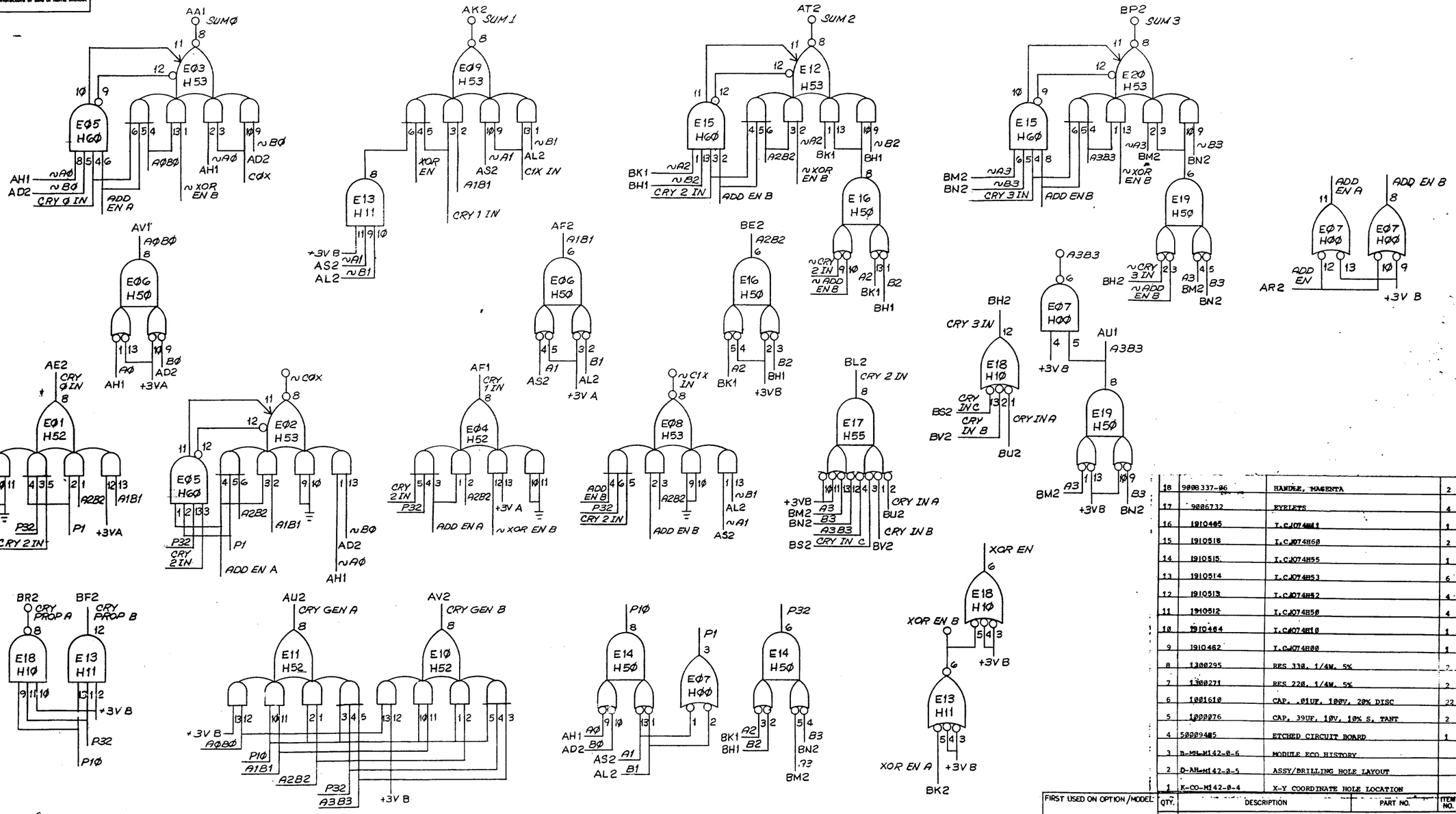

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "0" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

ITEM NO.	PART NO.	DESCRIPTION	QTY.
18	9008337-00	HANDLE, MAGENTA	2
17	9006732	EYELETS	4
16	1910485	I.C.#074H81	1
15	1910518	I.C.#074H60	2
14	1910515	I.C.#074H55	1
13	1910514	I.C.#074H53	6
12	1910513	I.C.#074H52	4
11	1910512	I.C.#074H50	4
10	1910484	I.C.#074H10	1
9	1910482	I.C.#074H00	1
8	1300295	RES 33Ω, 1/4W, 5%	2
7	1300271	RES 22Ω, 1/4W, 5%	2
6	1001610	CAP, .01UF, 100V, 20% DISC	22
5	1000076	CAP, 39UF, 10V, 10% S, TANT	2
4	50009485	ETCHED CIRCUIT BOARD	1
3	D-MTL-M142-0-6	MODULE ECO HISTORY	
2	D-AH-M142-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M142-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

FIRST USED ON OPTION/MODEL:

UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS ± .005 FRACTIONS ± 1/64 ANGLES ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS

MATERIAL

FINISH

DRN. W. Stephenson DATE 3/25/70
CHK'D. DATE 3-3-71
ENG. DATE
PROJ. ENG. DATE
PROD. DATE

FIRST USED ON

SCALE

SHEET 2 OF 2

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
M142
4 BIT
ADDER

SIZE D CODE CS NUMBER M142 - Ø - 1 REV. C

DIST.

REVISIONS
REV. | CHANGE NO.

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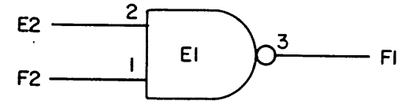
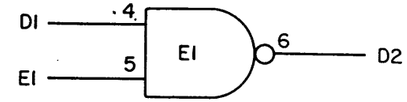
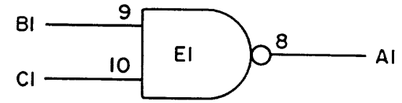
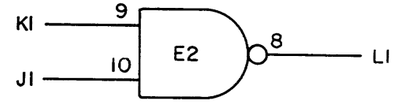
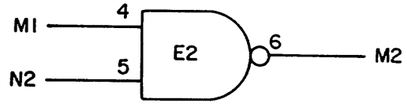
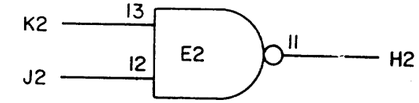


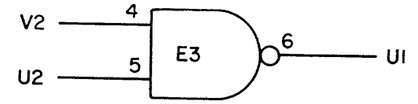


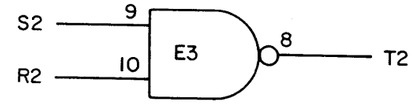


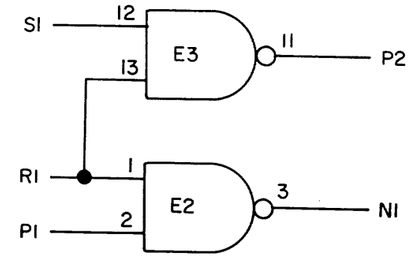






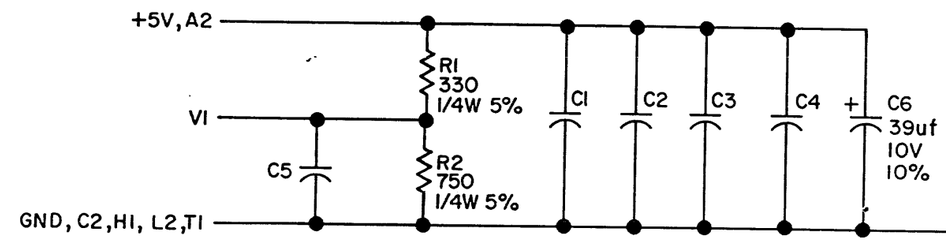


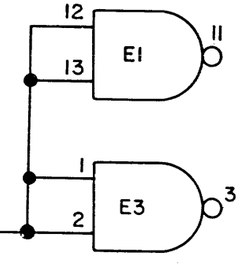




UNLESS OTHERWISE INDICATED:
IC'S ARE DEC1074H00
PIN 14 = +5V
PIN 7 = GND ON ALL IC'S

CAPACITORS ARE .01uf, 100V, 20%





REVISIONS			
CHK	CHG NO.	REV.	
KJ	00001	A	

DRN. BUTLER	DATE 4-2-70	
CHK'D T. Shiteworski	DATE 4/13/70	
ENG. J.E. Pinn	DATE 4/15/70	
PROD. R Wall	DATE 6/3/70	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: NAND GATE MI43

SIZE	CODE	NUMBER	REV.
B	CS	MI43-0-1	A

PRINTED CIRCUIT REV. A

DEC FORM NO. DRB 102

DISI 324,434,4[illegible] 5

5 PINK-

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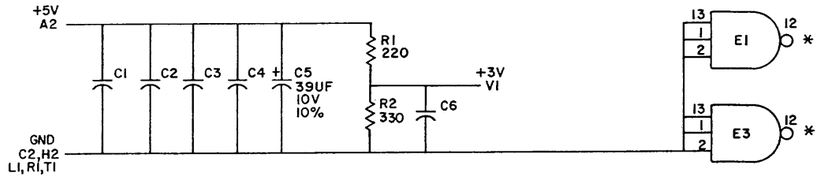
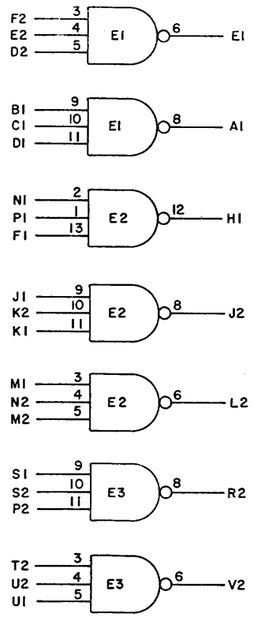
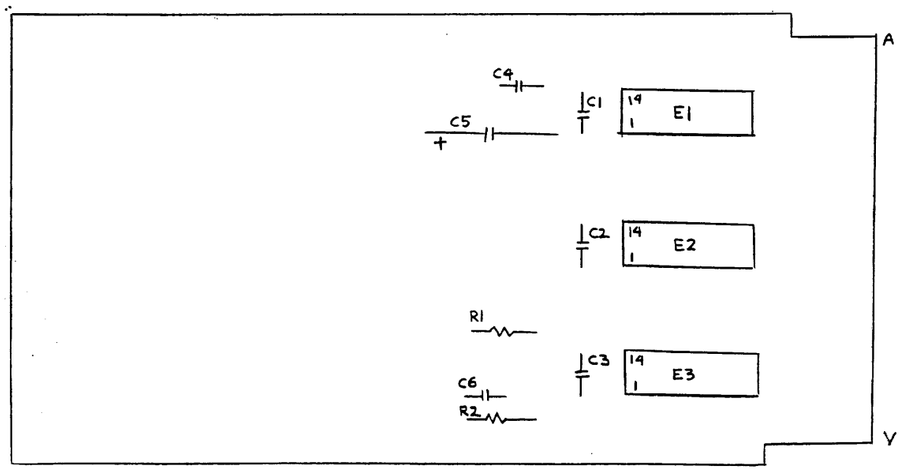


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
IC'S ARE DEC1074H10
PIN 7=GND ON EACH IC
PIN 14=+5V
* INDICATES NOT CONNECTED





ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1910464	I.C. DEC1074H10	3
8	1300295	RES. 330, 1/4W, 5%	1
7	1300271	RES. 220, 1/4W, 5%	1
6	1001610	CAP. .01UF, 100V, 20% DISC	5
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5008723	ETCHED CIRCUIT BOARD	1
3	B-~~MH~~-M145-0-6	MODULE ECO HISTORY	
2	C-AH-M145-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M145-0-4	X-Y COORDINATE HOLE LOCATION	

SIZE C | CODE CS | NUMBER M145-0-1 | REV A

REVISIONS		
CHK	CHG NO	REV
	00001	A

DRN	H. COOPER	DATE 12/9/70
CHK'D		DATE
ENG		DATE
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE SEVEN 3 INPUT NAND GATES MI45

SIZE C | CODE CS | NUMBER MI45-0-1 | REV. A

PRINTED CIRCUIT REV A

DEC FORM NO. DPC 101

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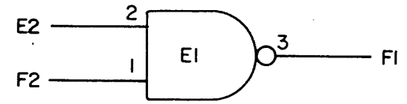
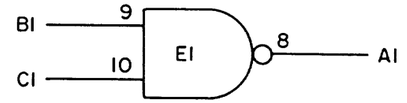
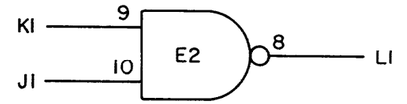
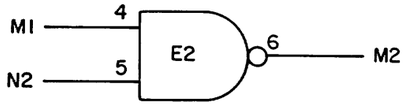
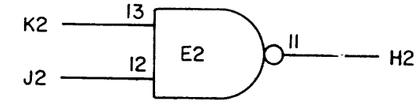
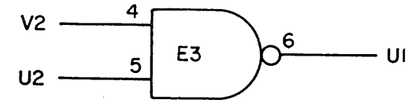


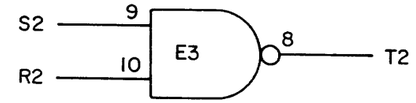


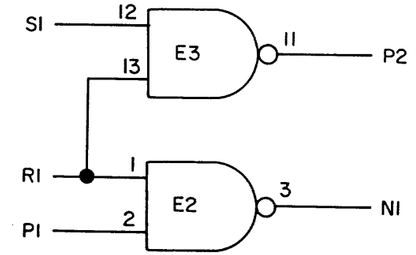




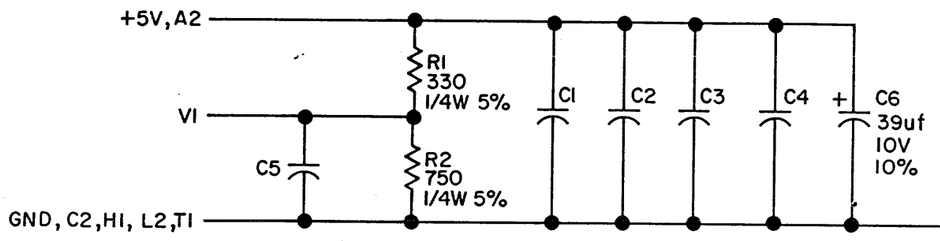


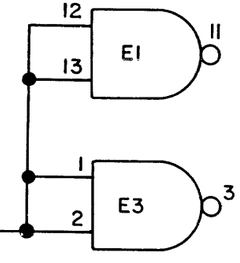






UNLESS OTHERWISE INDICATED:
IC'S ARE DEC1074H00
PIN 14 = +5V
PIN 7 = GND ON ALL IC'S
CAPACITORS ARE .01uf, 100V, 20%





REVISIONS			
REV.	A		
CHG NO.	00001		
CHK			

DRN. BUTLER	DATE 4-2-70	
CHK. T. Butkowski	DATE 4/13/70	
ENG. JEP	DATE 4/15/70	
PROD. RDwall	DATE 6/3/70	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: NAND GATE MI43

SIZE	CODE	NUMBER	REV.
B	CS	MI43-0-1	A

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

DISI 324,934,4[illegible]

5 PINK-

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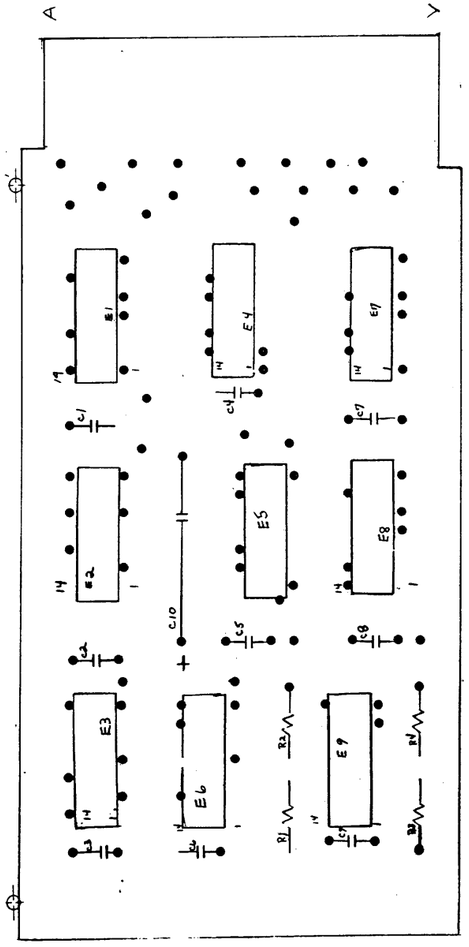
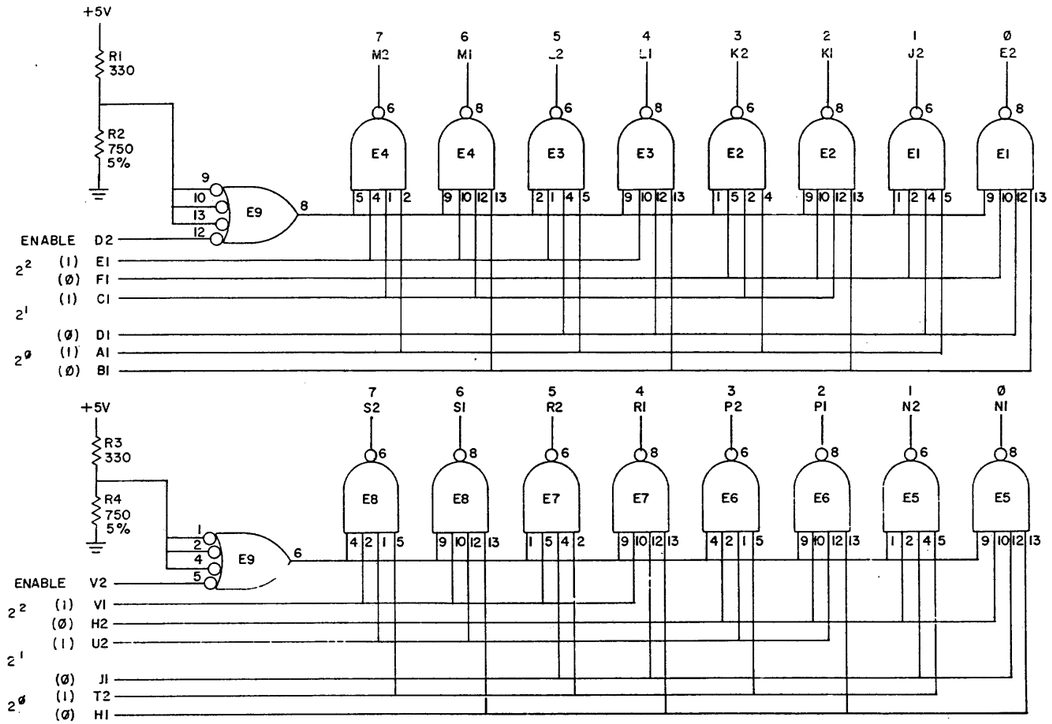
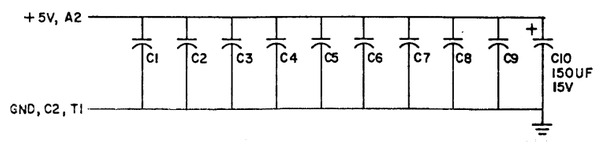




UNLESS OTHERWISE INDICATED:

CAPACITORS = .01UF, 100V, 20%
RESISTORS = 1/4W, 10%
IC'S = DEC1074H20
PIN 7 = GND
PIN 14 = +5V ON ALL IC'S

PINS F2 AND U1 CAN NOT BE USED.
THEY ARE USED FOR BACKPLANE
TWISTED PAIR GROUNDS.



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1910466	I.C. DEC1074H20	9
8	1301401	RES. 750, ¼W, 5%	2
7	1300293	RES. 330, ¼W, 10%	2
6	1001610	CAP. .01UF, 100V, 20% DISC	9
5	1000084	CAP. 150UF, 15V, 20% S. TANT	1
4	5008783	ETCHED CIRCUIT BOARD	1
3	B-MH-M151-0-6	MODULE ECO HISTORY	
2	C-AH-M151-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CC-M151-0-4	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

REVISIONS: CHK | CHG NO. 00001 | REV. D

DRN. NANCY MOORE DATE 11/23/70
CHK'D DATE
ENG. DATE
PROD. DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 2 DECODERS M151

SIZE C | CODE CS | NUMBER M151-0-1 | REV. D

PRINTED CIRCUIT REV. B

DEC FORM NO. DRC 102

SIZE C | CODE CS | NUMBER M151-0-1 | REV. D

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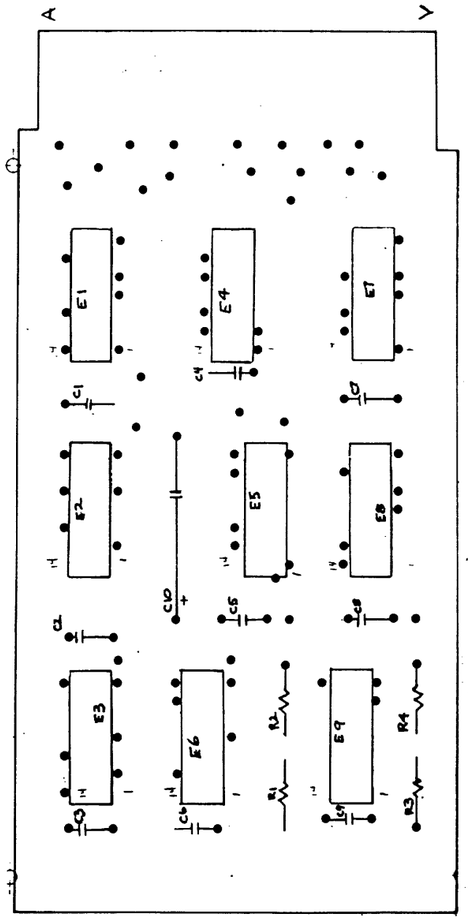
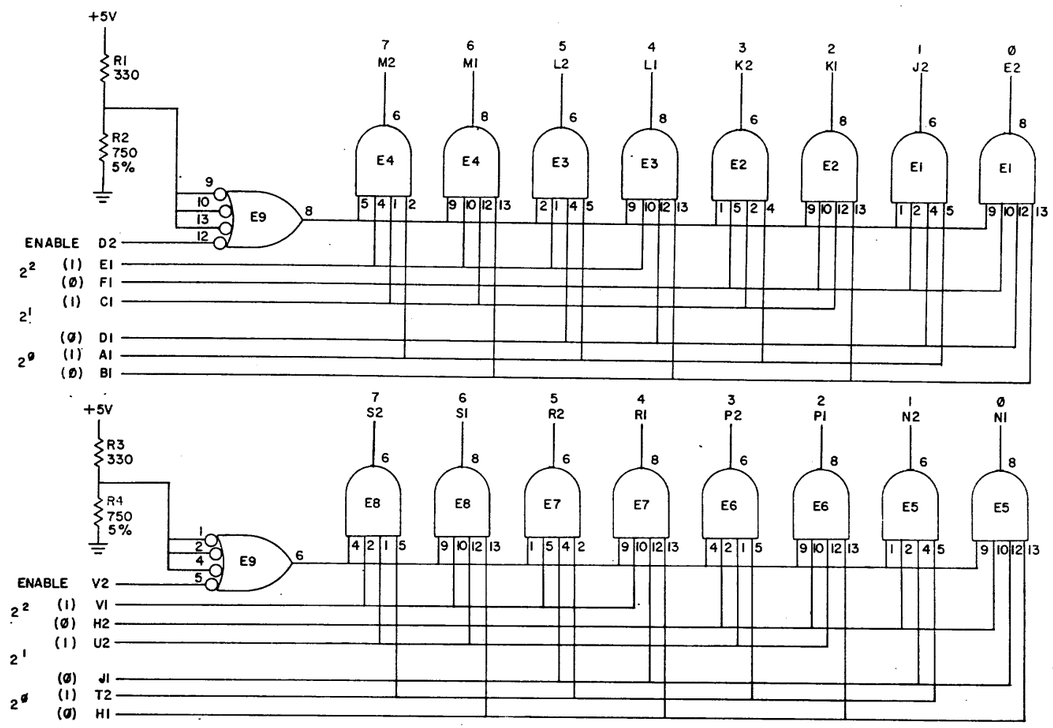
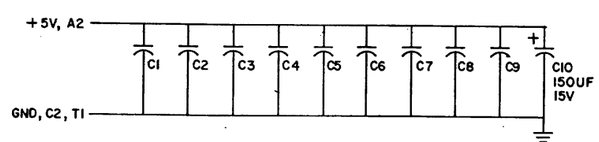




UNLESS OTHERWISE INDICATED:
CAPACITORS = .01UF, 100V, 20%
RESISTORS = 1/4W, 10%
E1–E8 = DEC1074H21
E9 = DEC1074H20
PIN 7 = GND
PIN 14 = +5V ON ALL IC'S

PINS F2 AND U1 CAN NOT BE USED.
THEY ARE USED FOR BACKPLANE
TWISTED PAIR GROUNDS.



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
12	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
11	9006732	EYELET #GS 4-7	2
10	1910467	I.C. DEC1074H21	8
9	1910466	I.C. DEC1074H20	1
8	1301401	RES. 750, ¼W, 5%	2
7	1300293	RES. 330, ¼W, 10%	2
6	1001610	CAP. .01UF, 100V, 20% DISC	9
5	1000084	CAP. 150UF, 15V, 20% S. TANT	1
4	5009323	ETCHED CIRCUIT BOARD	1
3	B-MH-M152-0-6	MODULE ECO HISTORY	
2	C-AH-M152-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M152-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS

CHK	CHG NO.	REV.
JH	CO0011	B
MM		
G. ATTERBURY		

DRN. NANCY MOORE DATE 11/23/70
CHK'D DATE
ENG. DATE 1/23/71
PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 2 DECODERS M152

SIZE C | CODE CS | NUMBER M152-0-1 | REV. B

PRINTED CIRCUIT REV. B

SIZE C | CODE CS | NUMBER M152-0-1 | REV. B

DEC FORM NO. DRC 102

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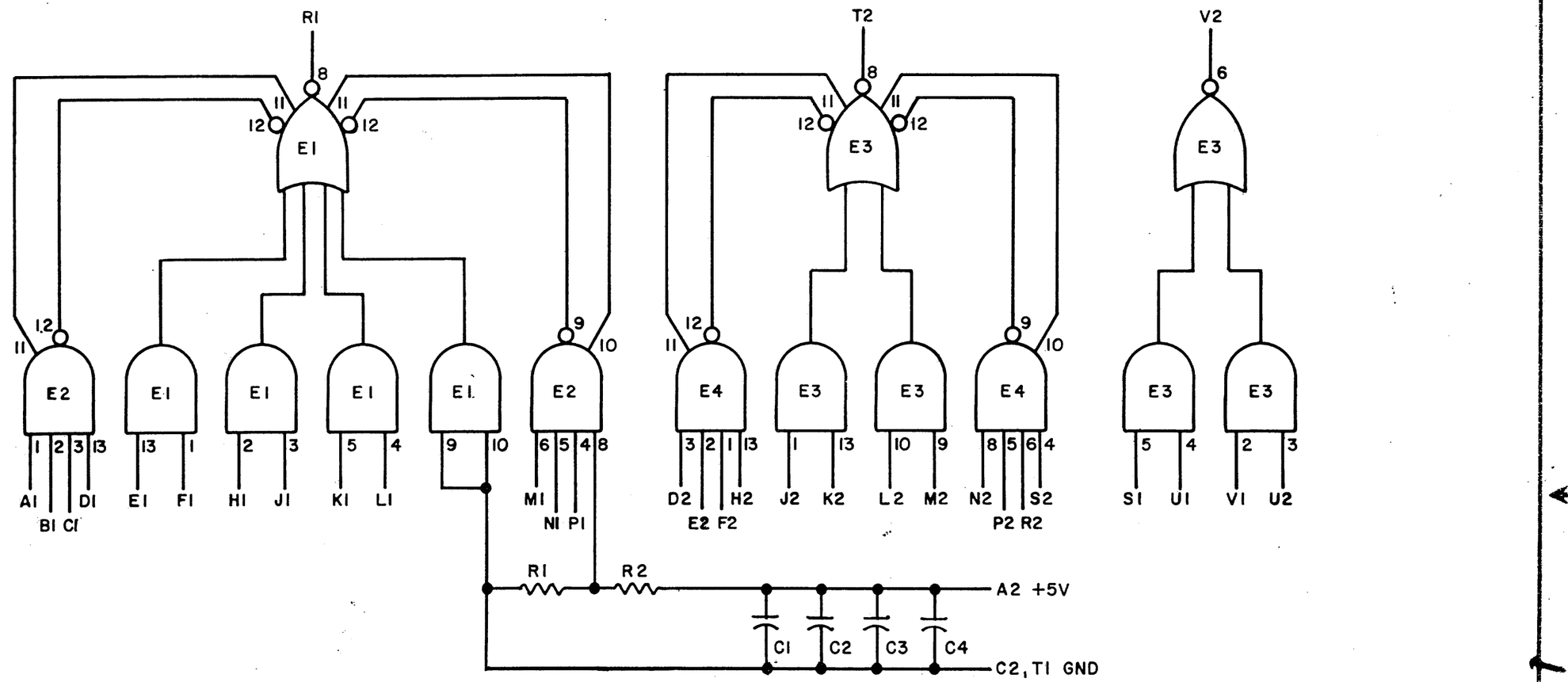

NOTES
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M160-0-0
C1 THRU C4	CAP, .01 MFD 100V 20% DISC	1001610
R1	RES. 6.8K 1/4W 10% CC	1300463
R2	RES. 4.7K 1/4W 10% CC	1300448
E2 & E4	INTEGRATED CKT. DEC7460N	1905581
E1	INTEGRATED CKT. DEC7453N	1905582
E3	INTEGRATED CKT. DEC7450N	1905580

PARTS LIST

REVISIONS			
REV.	A		B
CHG NO.	6807		00001
CHK	Pvc		MM

DRN.	M. Haller	DATE 4-24-67
CHK'D		DATE 5/5/67
ENG.	V. Doyle	DATE 5/5/67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: GATE MODULE M160

SIZE	CODE	NUMBER	REV.
B	CS	M160-0-1	B

PRINTED CIRCUIT REV. D

DIST. 324 434 433

PINK

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	M162-0-1	A

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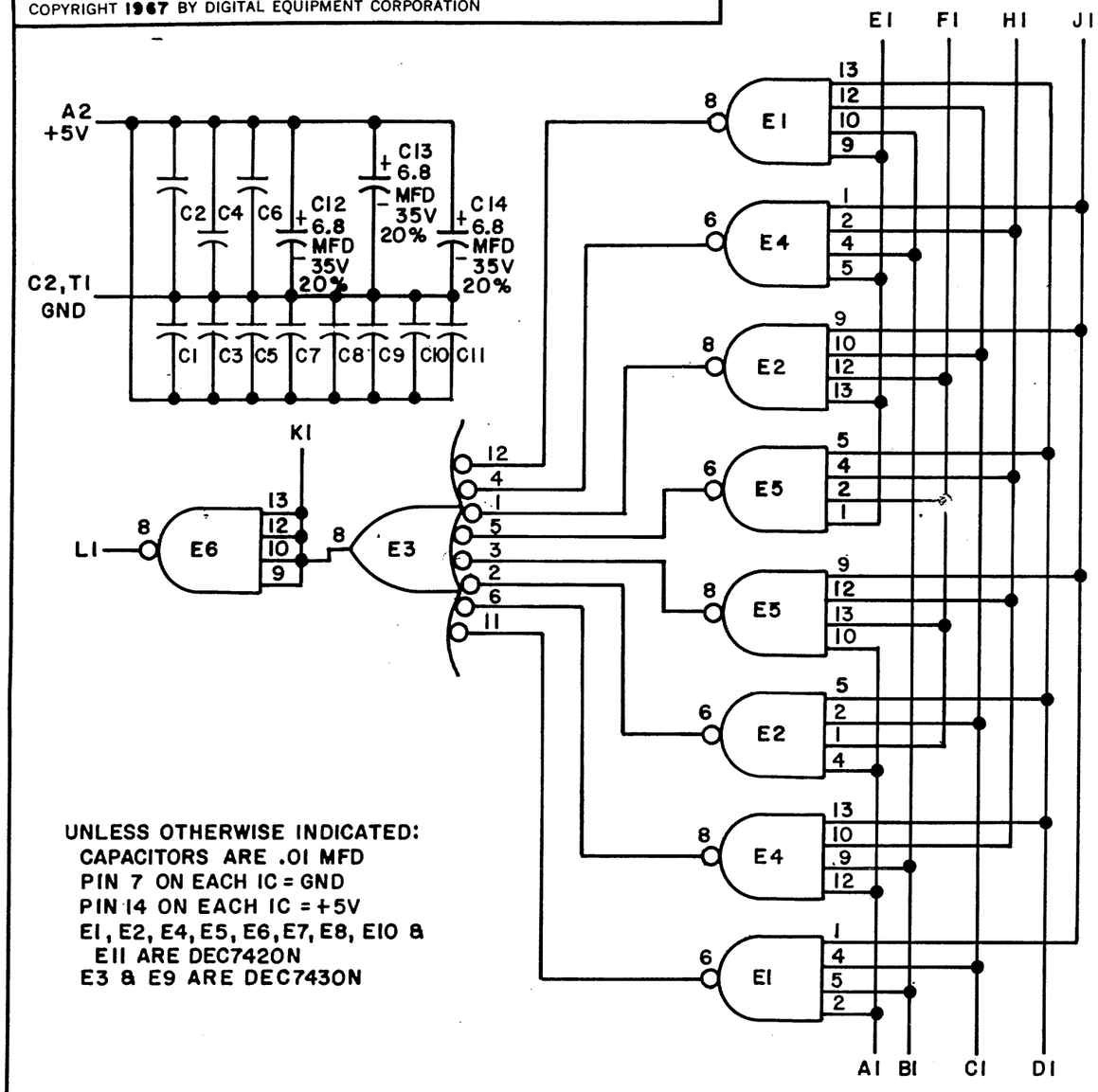

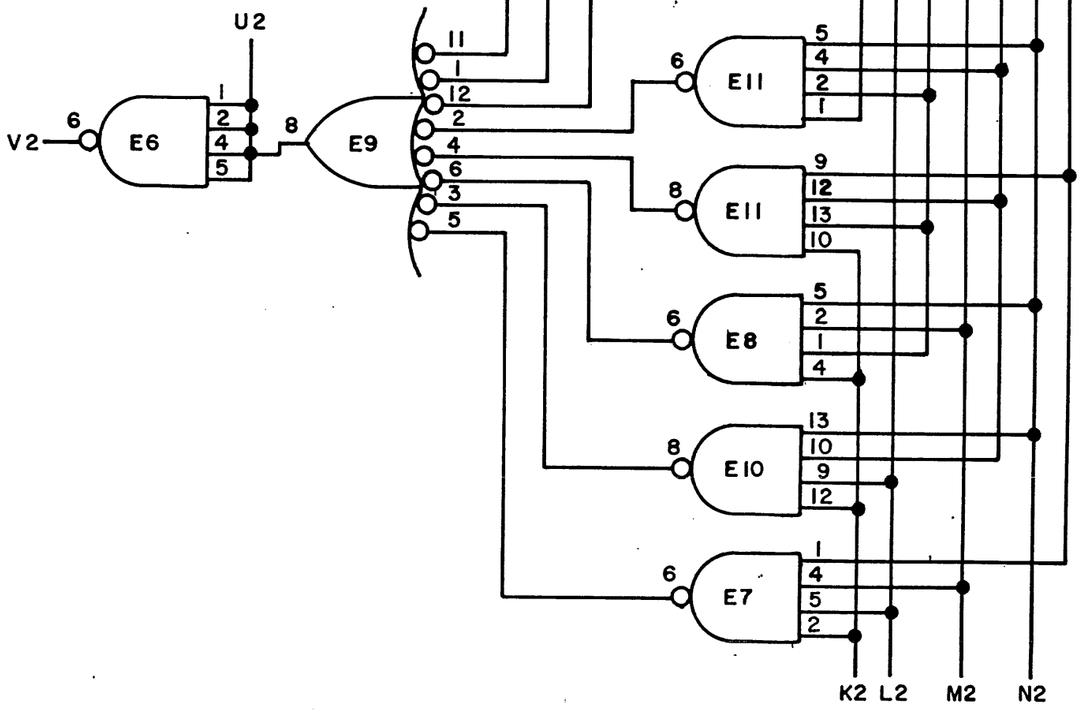

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01 MFD
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
E1, E2, E4, E5, E6, E7, E8, E10 & E11 ARE DEC7420N
E3 & E9 ARE DEC7430N

PARTS LIST IS A-PL-M162-0-0

REVISIONS		
REV.	CHG NO.	CHK
A	00001	MM

DRN. M. Waller	DATE 4-18-67	
CHK'D	DATE	
ENG.	DATE 5/5/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PARITY CIRCUIT M162

SIZE	CODE	NUMBER	REV.
B	CS	M162-0-1	A

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

DIST. 324 434 435 5 PINK

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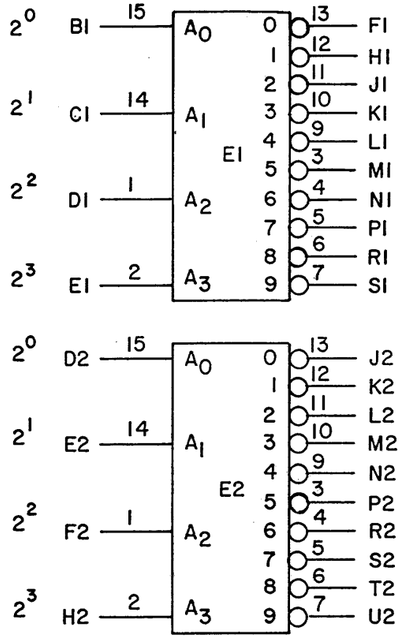

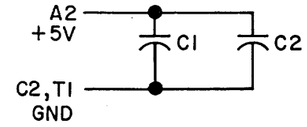

UNLESS OTHERWISE INDICATED:
PIN 8 ON EACH IC = GND
PIN 16 ON EACH IC = +5V
E1 AND E2 ARE FAIRCHILD 9301
CAPACITORS ARE .01 MFD

REVISIONS	REV.	CHG NO.	CHK
	A	00001	

DRN. BUTLER.	DATE 7/29/69	
CHK'D	DATE	
ENG.	DATE Oct 7, 69	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE DUAL BINARY TO DECIMAL DECODER M163

SIZE	CODE	NUMBER	REV.
B	CS	M163-0-1	A

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

5 DIST. 324,434,435 PINK

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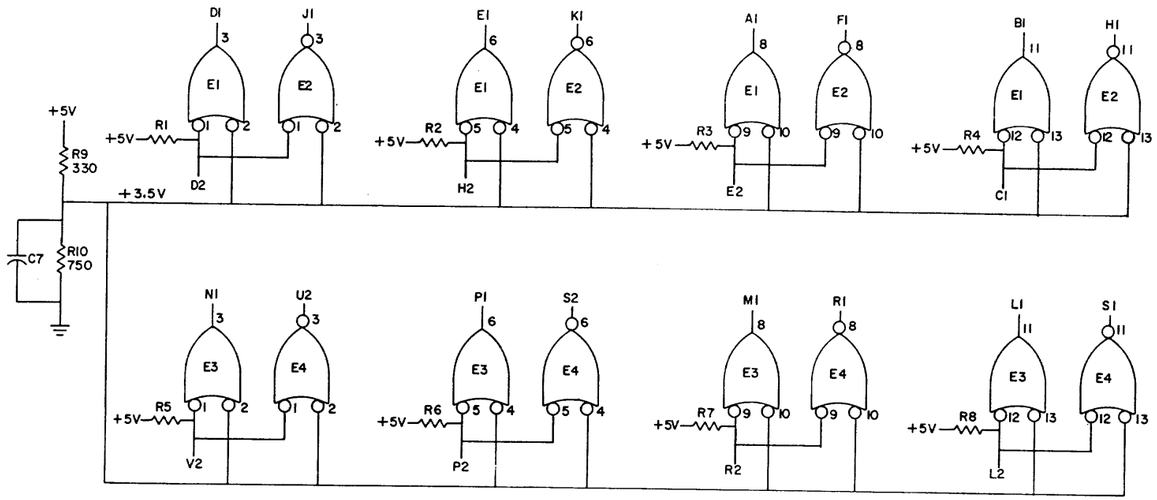
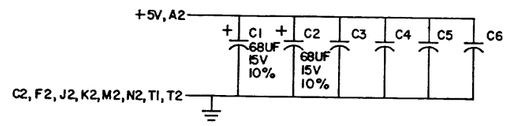
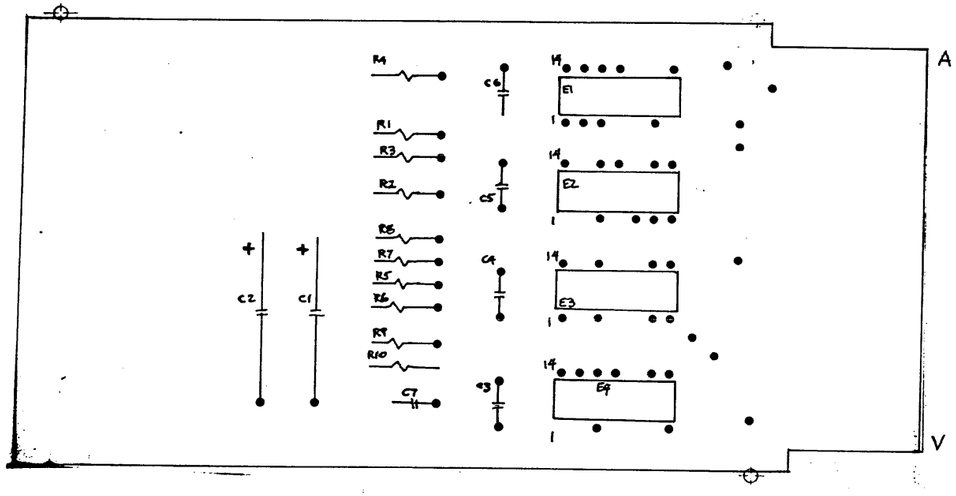


UNLESS OTHERWISE INDICATED:
CAPACITORS = .01UF, 100V, 20%
RESISTORS = 1.5K, 1/4W, 5%
E1, E3 = DEC1074H00
E2, E4 = DEC3001
PIN 7 = GND
PIN 14 = +5V ON ALL IC'S





ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
13	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
12	9006732	EYELET #GS 4-7	2
11	1909514	I.C. DEC 3001	2
10	1910462	I.C. DEC1074H00	2
9	1301401	RES. 750, ¼W, 5%	1
8	1300391	RES. 1.5K, ¼W, 5%	8
7	1300295	RES. 330, ¼W, 5%	1
6	1001610	CAP. .01UF, 100V, 20% DISC	5
5	1000082	CAP. 68UF, 15V, 10% S. TANT	2
4	5009287	ETCHED CIRCUIT BOARD	1
3	B-ME-M165-0-6	MODULE ECO HISTORY	
2	C-AH-M165-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M165-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS	CHK	CHG NO.	REV.
		00001	D
		00002	E

DRN.	NANCY MOORE	DATE 11/16/70
CHK'D	M. Weller	DATE 11/16/70
ENG.	G. McGinn	DATE 12-23-70
PROD.		DATE

DEC FORM NO. DRC 102

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: 8 BUFFERS M165

SIZE	CODE	NUMBER	REV
C	CS	M165-0-1	E

PRINTED CIRCUIT REV D

SIZE C | CODE CS | M165-0-1 | E

MS886

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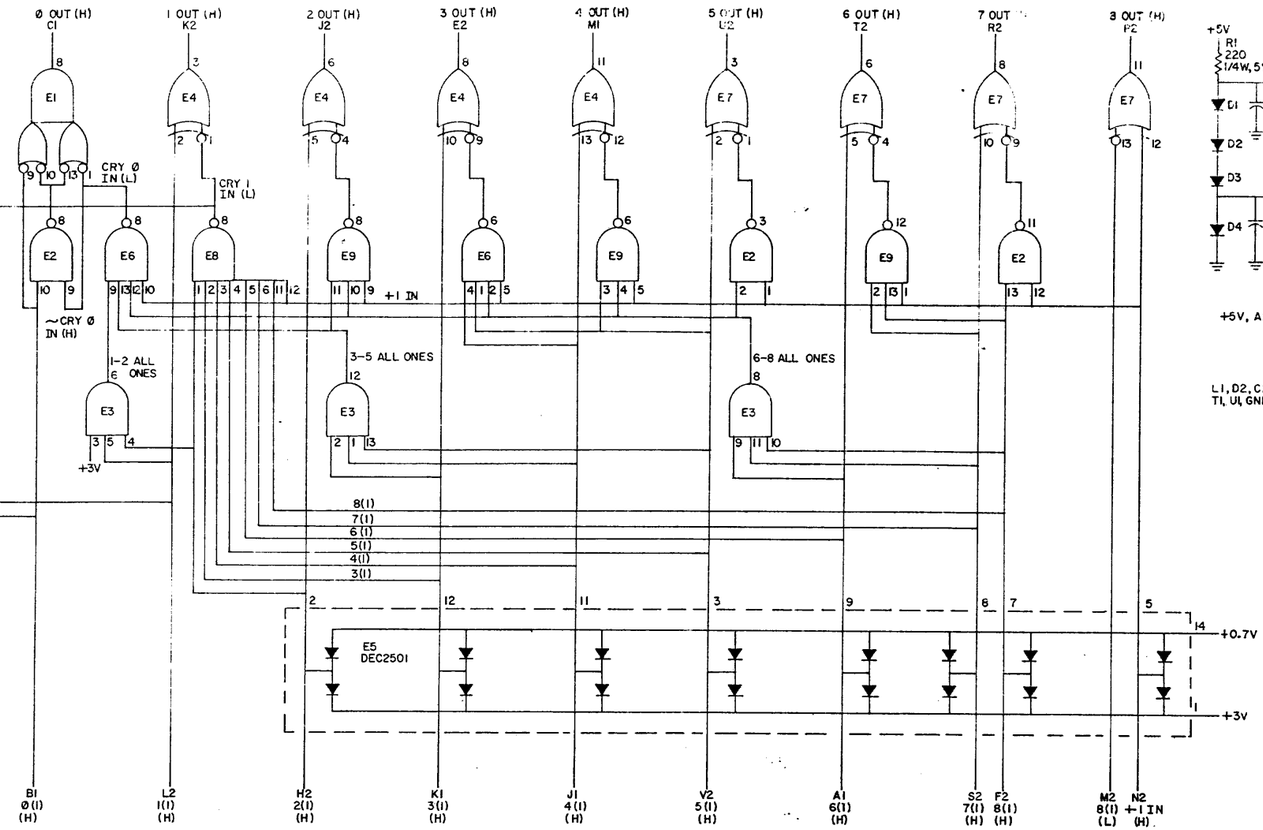
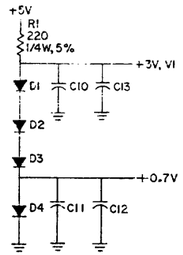
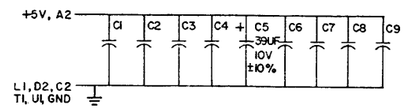
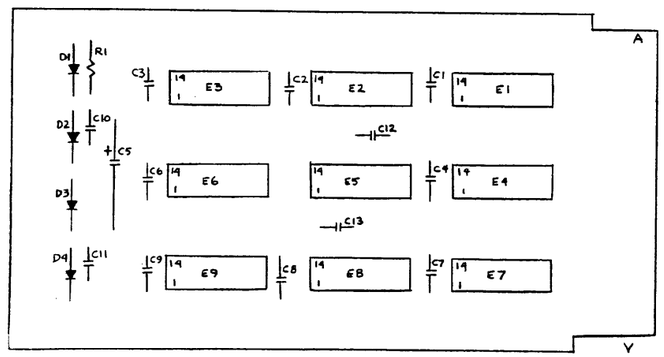






UNLESS OTHERWISE INDICATED:

CAPACITORS = .01UF, 100V, 20%
DIODES = D662
E1 = DEC1074H50
E2 = DEC1074H00
E3 = DEC1074H11
E4, E7 = DEC3022
E5 = DEC2501
E6 = DEC1074H20
E8 = DEC1074H30
E9 = DEC1074H10
PIN 7 GND ON E1-E4, E6-E9
PIN 14 = +5V



18	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
17	9006732	EYELET #GS 4-7	2
16	1910269	I.C. DEC 3022P	2
15	1910013	I.C. DEC 2501	1
14	1910465	I.C. DEC1074H11	1
13	1910512	I.C. DEC10 4H50	1
12	1910468	I.C. DEC1074H30	1
11	1910464	I.C. DEC1074H10	1
10	1910462	I.C. DEC1074H00	1
9	1910466	I.C. DEC1074H20	1
8	1300271	RES. 220, ¼W, 5%	1
7	1100113	DIODE D662	4
6	1001610	CAP. .01UF, 100V, 20% DISC	12
5	1000074	CAP. 39UF, 10V, 10%	1
4	5009387	ETCHED CIRCUIT BOARD	1
3	-MM-1166-0-E	MODULE ECO HISTORY	
-	-AP-1166-0-1	ASSY/DRILLING HOLE LAYOUT	
-	-DL-1166-0-E	X-Y COORDINATE HOLE LOCATION	
ITEM	-MM-1166-0-1	DESCRIPTION	QTY.

PARTS LIST

REVISIONS: CHG | CHG NO | REV: 1 | A0001 | E

DRN: Nancy Mabee 12/24/70
CHK'D: [illegible] DATE
MFG: [illegible] DATE 2/3/71
PROD: DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: +1 GATE M166
SIZE D | CODE CS | NUMBER M166-0-1 | REV. E
PRINTED CIRCUIT REV. E

REV. E | NUMBER M166-0-1 | SIZE D | CODE CS

DEC FORM NO. 040 116

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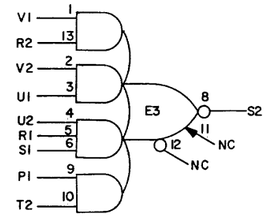

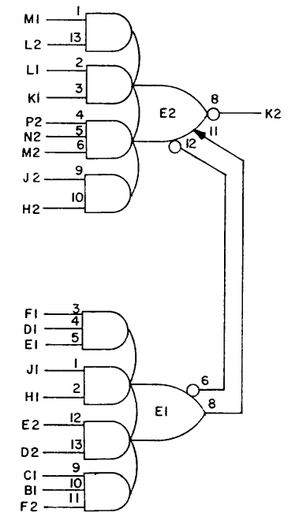

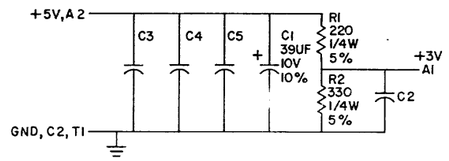

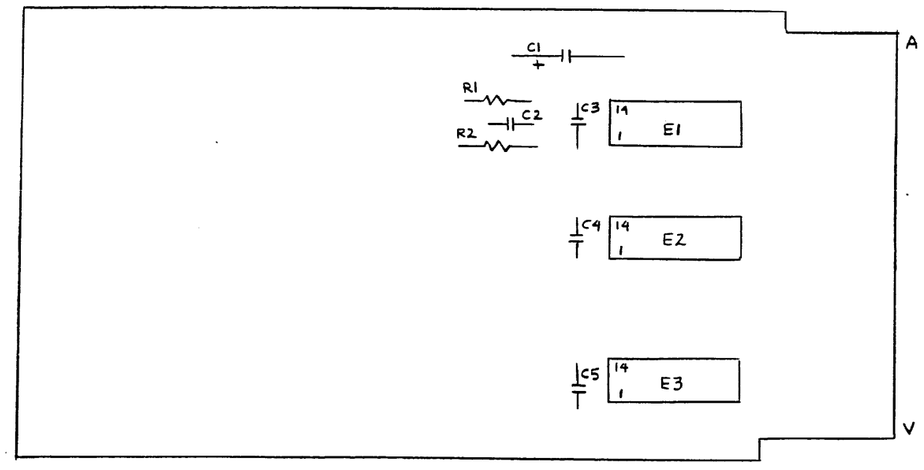

UNLESS OTHERWISE INDICATED:

CAPACITORS = .01UF, 100V, 20%
E1 = DEC1074H62
E2, E3 = DEC1074H53
PIN 7 = GND ON ALL IC'S
PIN 14 = +5V

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
12	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
11	9006732	EYELETS #GS 4-7	2
10	1940517	I.C. DEC1074H62	1
9	1940514	I.C. DEC1074H53	2
8	1300295	RES. 330, ¼W, 5%	1
7	1300271	RES. 220, ¼W, 5%	1
6	1001610	CAP. .01UF, 100V, 20% DISC	4
5	1000076	CAP. 39UF, 10V, 10%	1
4	5009331	ETCHED CIRCUIT BOARD	1
3	B-MH-M170-0-6	MODULE ECO HISTORY	
2	C-AH-M170-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M170-0-4	X-Y COORDINATE HOLE LOCATION	

SIZE C | CODE CS | NUMBER M170-0-1 | REV. B

REVISIONS

CHK	CHG NO	REV
	00001	B

DRN	NANCY MOORE	DATE 12/9/70
CHK'D		DATE
ENG		DATE 3/11
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 8 WIDE AND-NOR M17C

SIZE	CODE	NUMBER	REV
C	CS	M170-0-1	B

PRINTED CIRCUIT REV B

DEC FORM NO. DRC 101

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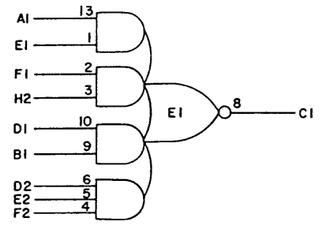
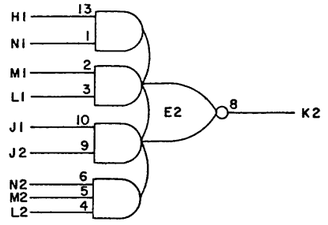
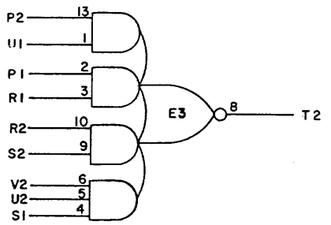
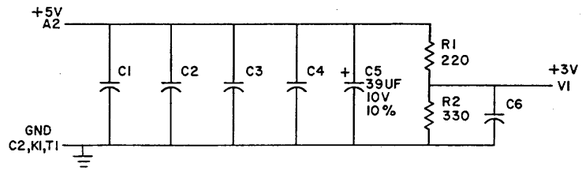
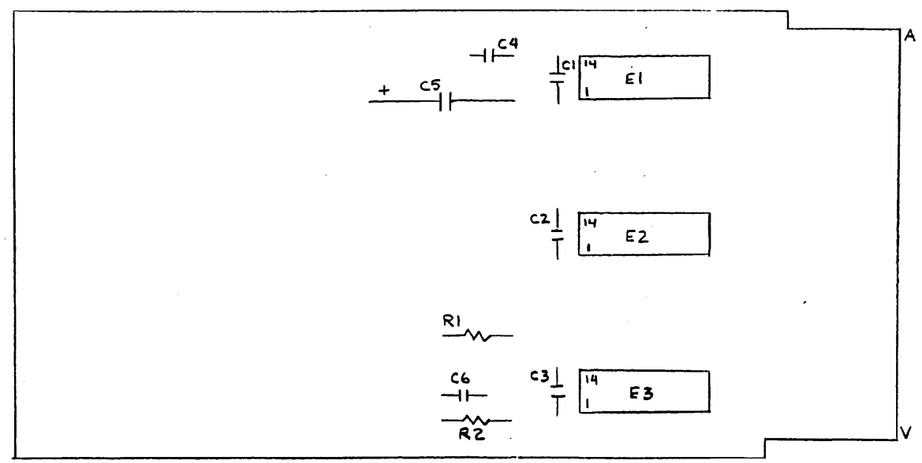








UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
IC'S ARE DEC1074H53
PIN 7 = GND
PIN 14 = +5V ON EACH IC



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1910514	I.C. DEC1074H53	3
8	1300295	RES. 330, ¼W, 5%	1
7	1300271	RES. 220, ¼W, 5%	1
6	1001610	CAP. .01UF, 100V, 20% DISC	5
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009325	ETCHED CIRCUIT BOARD	1
3	B-MH-M171-0-6	MODULE ECO HISTORY	
2	C-AH-M171-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M171-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS: CHK | CHG NO | REV: 00001 | B

DRN	J. Cooper	DATE 12/4/70
CHK'D	Ordway	DATE 12/4/70
ENG.		DATE
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: THREE 2-2-2-3 AND-NOR GATES M171

SIZE	CODE	NUMBER	REV.
C	CS	M171-0-1	B

PRINTED CIRCUIT REV A

SIZE C | CODE CS | NUMBER M171-0-1 | REV B

DEC FORM NO. DRC 10:

Pin R

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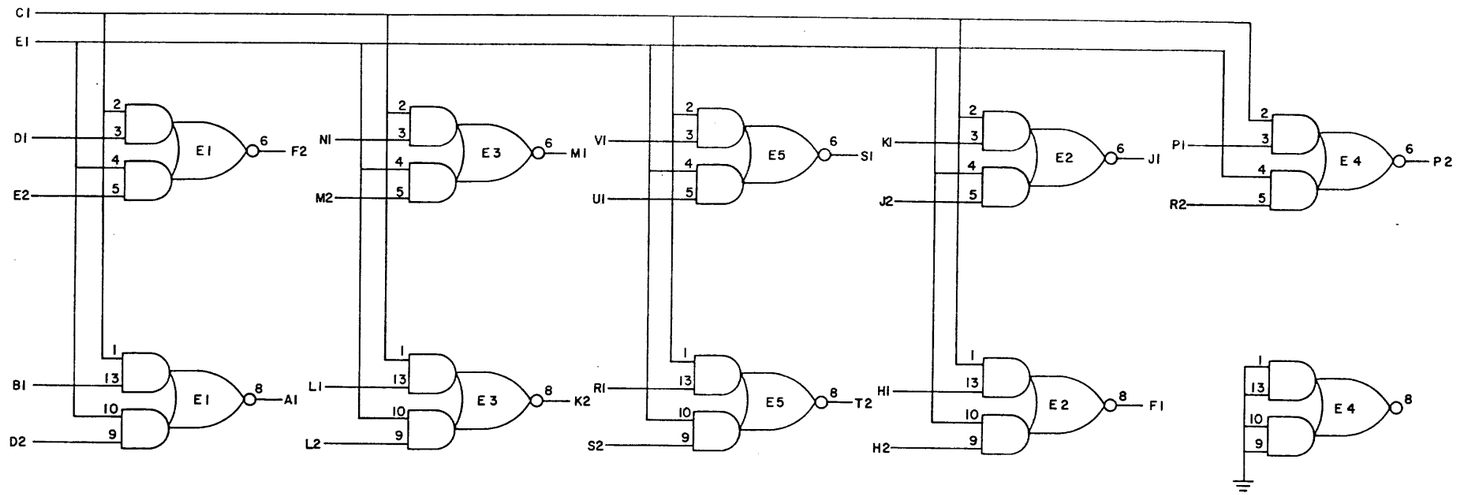
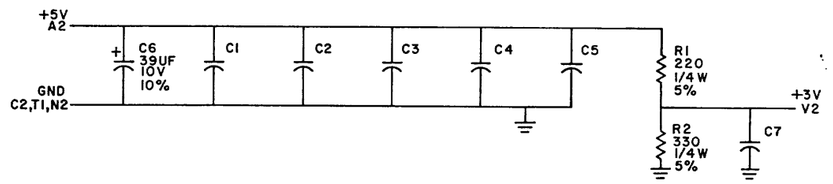
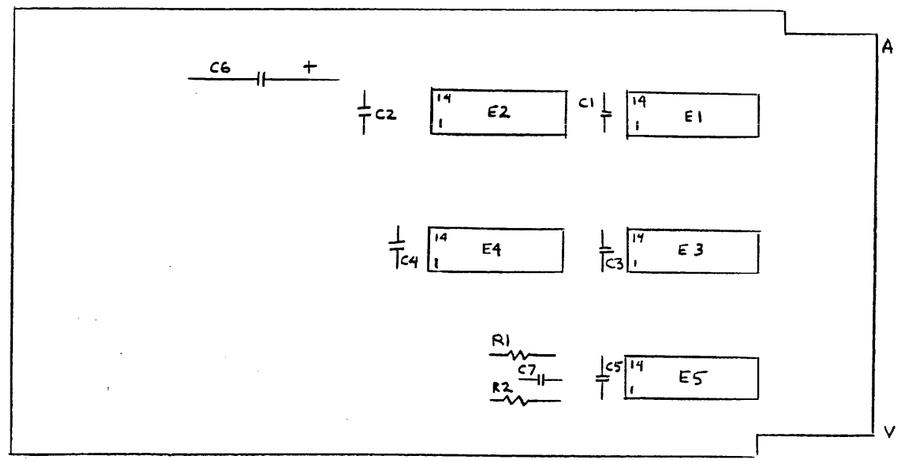




UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01 UF, 100V, 20%
IC'S ARE DEC1074H50
PIN 7= GND
PIN 14=+5V ON EACH IC



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1910512	I.C. DEC1074H50	5
8	1300295	RES. 330, ¼W, 5% CC	1
7	1300271	RES. 220, ¼W, 5% CC	1
6	1001610	CAP. .01UF, 100V, 20% DISC	6
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5008536	ETCHED CIRCUIT BOARD	1
3	B-MH-M172-0-6	MODULE ECO HISTORY	
2	C-AH-M172-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M172-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS			
CHK	CHG NO.	REV.	
JM	00001	A	

DRN.	S. COOPER	DATE 12/14/70
CHK'D		DATE
ENG.		DATE
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: 2X9 DATA MIXER M172

SIZE	CODE	NUMBER	REV.
C	CS	M172-0-1	A

PRINTED CIRCUIT REV. A

SIZE	CODE	NUMBER	REV.
C	CS	M172-0-1	A

DEC FORM NO.
DRC 102

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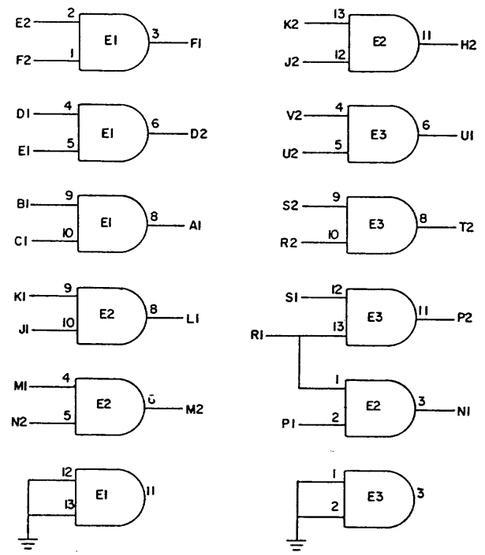

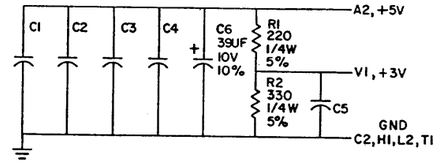

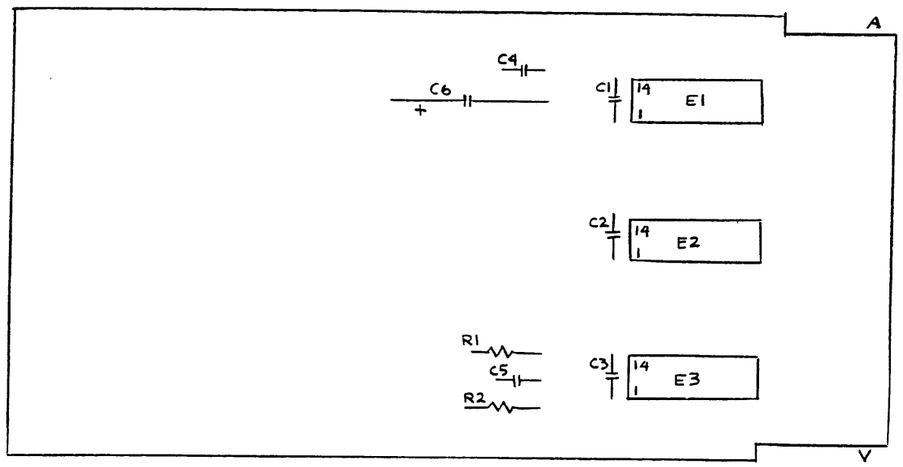

UNLESS OTHERWISE INDICATED:
CAPACITORS = .01UF, 100V, 20%
IC'S = DEC3001
PIN 7 = GND
PIN 14 = +5V ON ALL IC'S

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1909514	I.C. DEC 3001	3
8	1300295	RES. 330, ¼W, 5%	1
7	1300271	RES. 220, ¼W, 5%	1
6	1001610	CAP. .01UF, 100V, 20% DISC	5
5	1000076	CAP. 39UF, 10V, 10% TANT	1
4	5009292	ETCHED CIRCUIT BOARD	1
3	B-MH-M173-0-6	MODULE ECO HISTORY	
2	C-AH-M173-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M173-0-4	X-Y COORDINATE HOLE LOCATION	

SIZE C | CODE CS | NUMBER M173-0-1 | REV A

REVISIONS			
CHK	CHG NO	REV	
JS	00001	A	

DRN	Nancy Moore	DATE 12/16/70
CHK'D		DATE
ENG		DATE
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: IO AND GATES M173

SIZE	CODE	NUMBER	REV
C	CS	M173-0-1	A

PRINTED CIRCUIT REV A B

DEC FORM NO. DRC 10:

Print Blue

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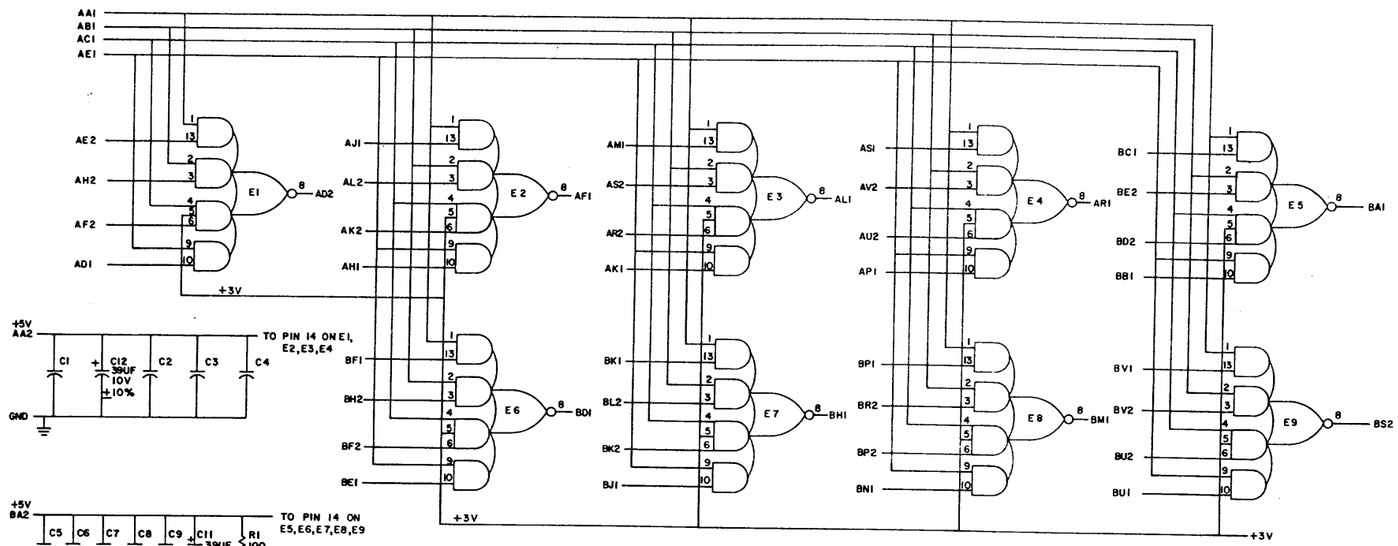

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	2
10	9006732	EYELET 8GS 4-7	4
9	190514	I.C. DEC10MH53	9
8	1300250	RES. 150, ¼W, 5%	1
7	1300229	RES. 100, ¼W, 5%	1
6	1001610	CAP. .01UF, 100V, 20% DISC	10
5	1000076	CAP. 39UF, 10V, 10% S. TANT	2
4	5008527	ETCHED CIRCUIT BOARD	1
3	B-MH-M174-0-6	MODULE ECO HISTORY	.
2	C-AH-M174-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CC-M174-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS	CHG NO	CHK NO	REV
ADD 1			A

DRW	J. COOPER	DATE 12/11/70
CHK	L. Golick	DATE 12/11/70
ENG	W. S. Hamilton	DATE 12/11/70
PROG		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 4X9 DATA MIXER M174

SIZE	CODE	NUMBER	REV.
D	CS	M174-0-1	A

PRINTED CIRCUIT REV. A

DEC FORM NO. 960 116

SIZE D | CODE CS | NUMBER M174-0-1 | REV A

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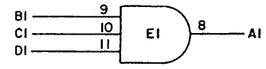
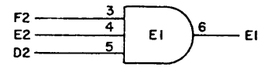
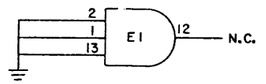
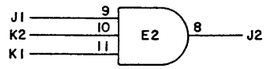
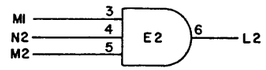
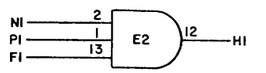


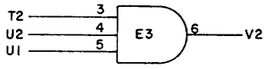


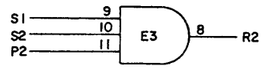


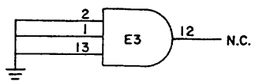










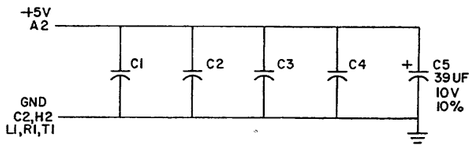


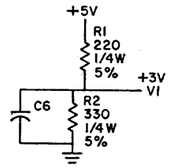
UNLESS OTHERWISE INDICATED:

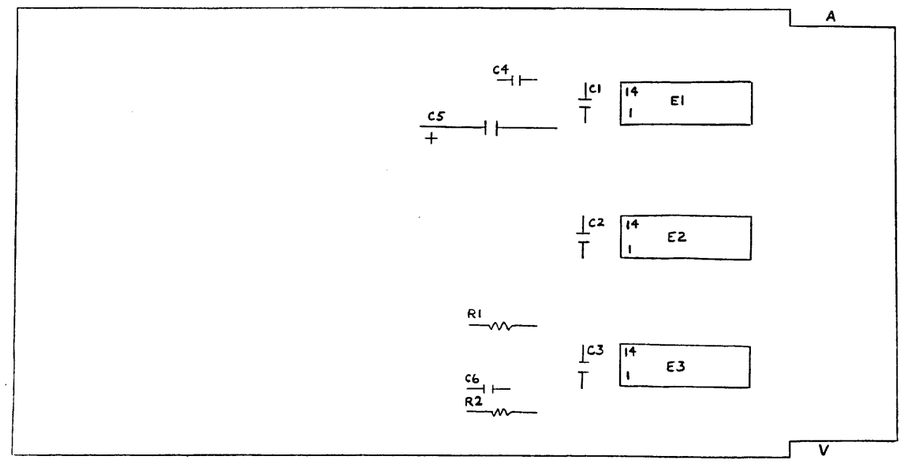
CAPACITORS ARE .01UF, 100V, 20%

IC'S ARE 1074H11

PIN 7 = GND
PIN 14 = +5V ON ALL IC'S







ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1910465	I.C. DEC1074H11	3
8	1300295	RES. 330, ¼W, 5%	1
7	1300271	RES. 220, ¼W, 5%	1
6	1001610	CAP. .01UF, 100V, 20% DISC	5
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	50C9290	ETCHED CIRCUIT BOARD	1
3	B-MH-M175-0-6	MODULE ECO HISTORY	
2	C-AH-M175-0-5	ASSY/DRILLING HOLE LAYOUT	
1	B-CO-M175-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS

CHK	CHG NO	REV
JW	00001	A

DRN. L. COOPER DATE 12/9/70
CHK'D DATE
ENG DATE
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE SEVEN 3 INPUT AND GATES M175

SIZE C | CODE CS | NUMBER M175-0-1 | REV. A

PRINTED CIRCUIT REV A

SIZE C | CODE CS | NUMBER M175-0-1 | REV A

DEC FORM NO DRC 102

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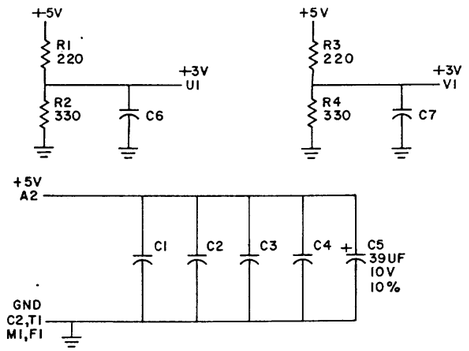
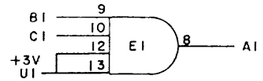
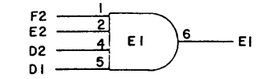
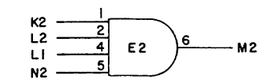
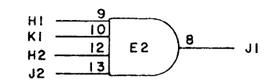
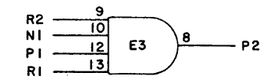


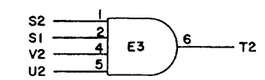




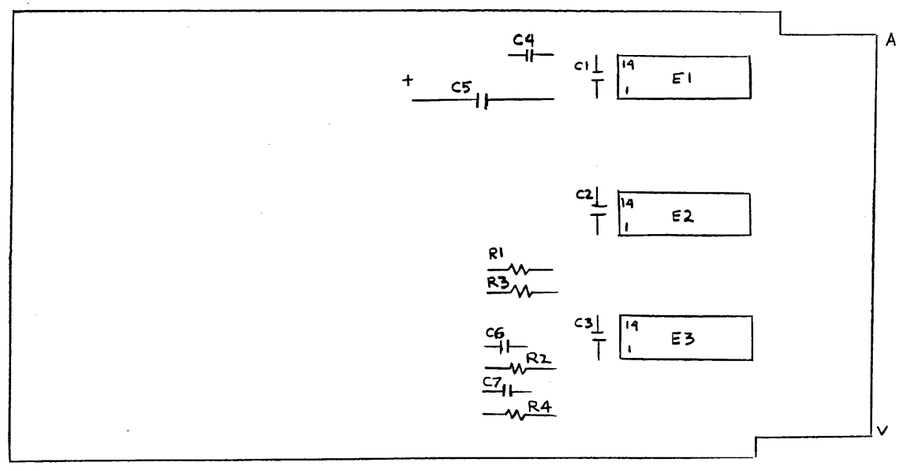








UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 5%
CAPACITORS ARE .01UF, 100V, 20%
IC'S ARE DEC1074H21
PIN 7 = GND ON EACH IC
PIN 14 = +5V



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1910467	I.C. DEC1074H21	3
8	1300295	RES. 330, ¼W, 5%	2
7	1300271	RES. 220, ¼W, 5%	2
6	1001610	CAP. .01UF, 100V, 20%	6
5	1000076	CAP. 39UF, 10V, 10%	1
4	5009330	ETCHED CIRCUIT BOARD	1
3	B-MH-M177-0-6	MODULE ECO HISTORY	
2	C-AH-M177-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M177-0-4	X-Y COORDINATE HOLE LOCATION	

REV. A
SIZE C | CODE CS | NUMBER M177-0-1

REVISIONS: REV. A | CHG NO 00001 | CHK

DRN A. Cooper 12/5/70
CHK'D [illegible] 12/7/70
ENG [illegible] 12/7/70
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE FIVE 4 INPUT AND GATES M177

SIZE C | CODE CS | NUMBER M177-0-1 | REV. A

PRINTED CIRCUIT REV. A

DEC FORM NO. DEC 10-

Print

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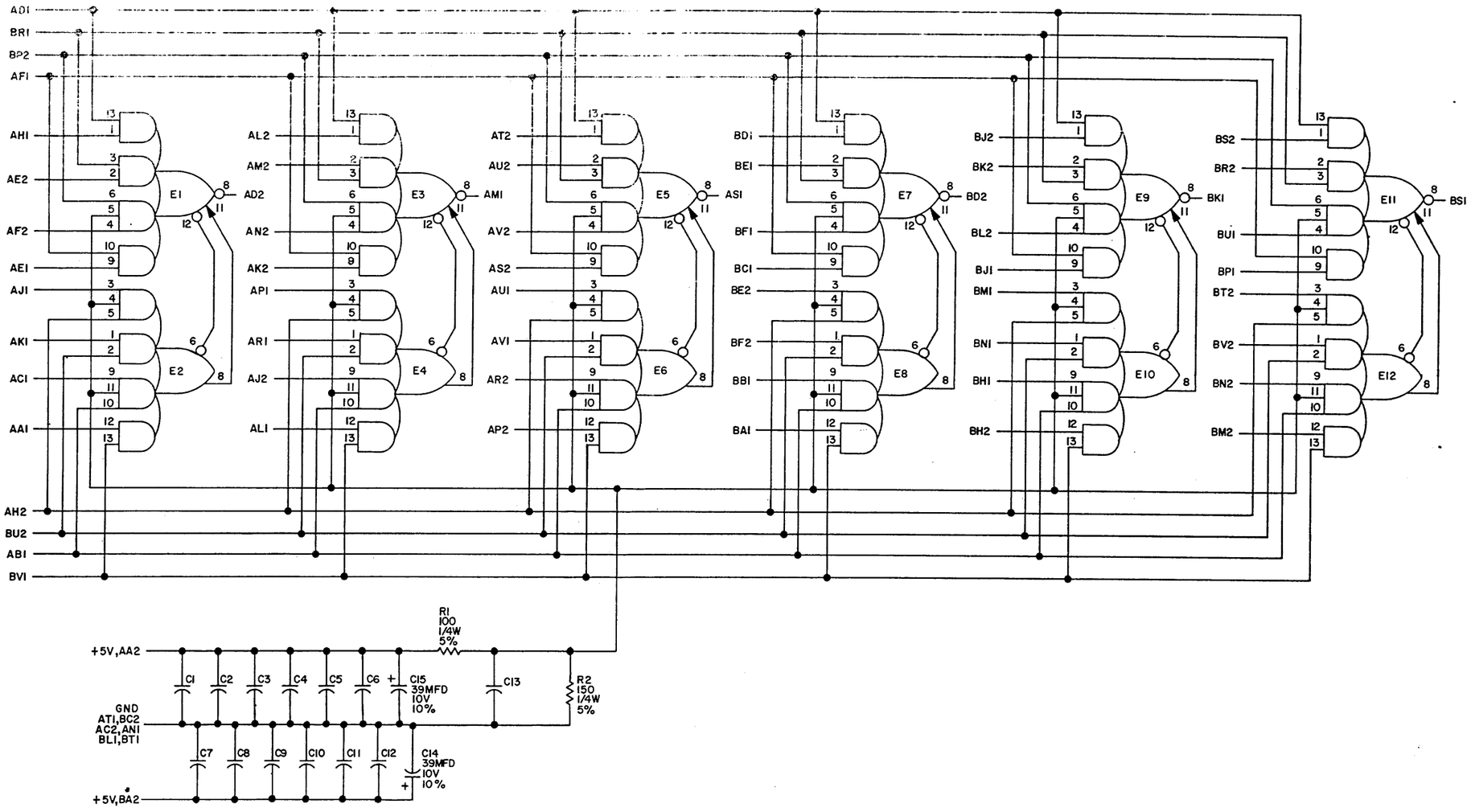

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01 MFD, 100V, 20%
E2, E4, E6, E8, E10, E12 ARE DEC|074-H62
E1, E3, E5, E7, E9, E11 ARE DEC|074-H53
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REVISIONS	CHK	CHG NO.	REV.
		00001	B

DRN. ALLAN RITCEY	DATE 1-20-70	
CHK'D	DATE 8-26-70	
ENG.	DATE 9-7-70	
PROD.	DATE 10/26/70	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: 8X6 DATA MIXER M178

SIZE	CODE	NUMBER	REV
C	CS	M178-0-1	B

PRINTED CIRCUIT REV. B

DEC FORM NO. DRC 102

M178-P2

SIZE	CODE	NUMBER	REV.
C	CS	M178-0-1	B

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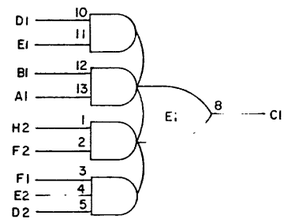

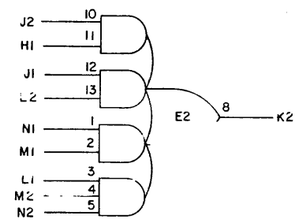

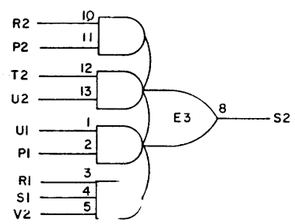

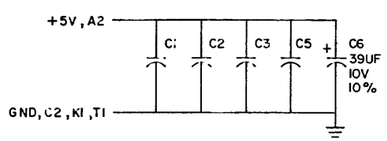

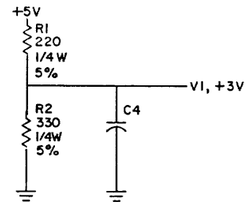

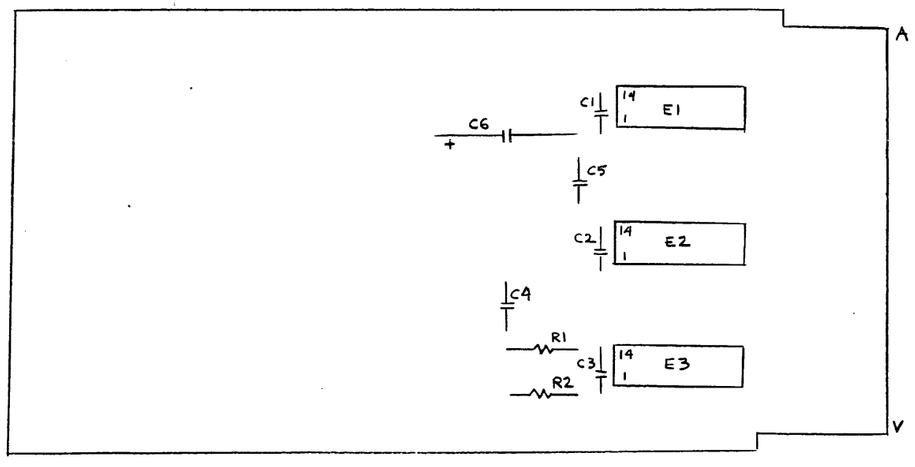

UNLESS OTHERWISE INDICATED:

CAPACITORS = .01UF, 100V, 20%
IC'S = DEC1074H52
PIN 7 = GND
PIN 14 = +5V ON ALL IC'S

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	19910513	I.C. DEC1074H52	3
8	1300295	RES. 330, ¼W, 5% CC	1
7	1300271	RES. 220, ¼W, 5% CC	1
6	1001610	CAP. .01UF, 100V, 20% DISC	5
5	1000076	CAP. 39UF, 10V, 10% TANT	1
4	5008873	ETCHED CIRCUIT BOARD	1
3	B-MH-M181-0-6	MODULE ECO HISTORY	
2	C-AH-M181-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M181-0-4	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

REVISIONS		
ENG NO	CHG NO	REV
	00001	A

DRN	NANCY MOORE	DATE 12/8/70
CHK'D		DATE 12/16/70
ENG		DATE
PROD		DATE

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE THREE
2-2-2-3 AND-OR GATES M181

SIZE	CODE	NUMBER	REV.
C	CS	M181-0-1	A

PRINTED CIRCUIT REV. A

SIZE C | CODE CS | NUMBER M181-0-1 | REV A

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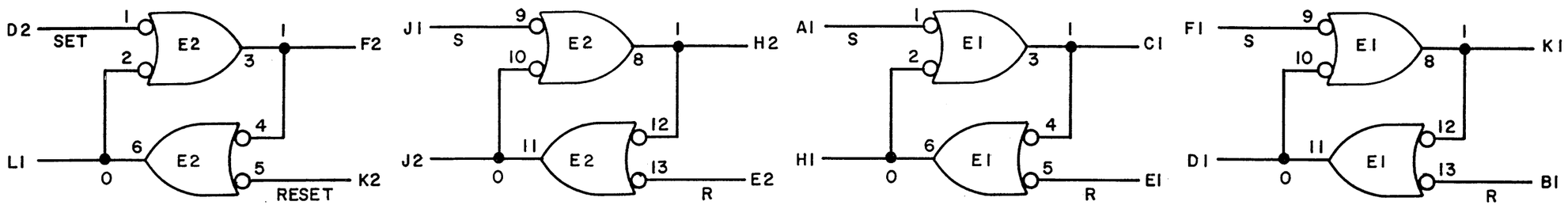
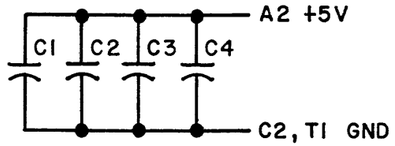


NOTES
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V



REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M203-0-0
E1 THRU E4	INTEGRATED CKT. DEC7400N	1905575
C1 THRU C4	CAP. .01MFD 50V-0+20% DISC	1000001

PARTS LIST

REVISIONS			
REV.	A	B	
CHG NO.	6808	00001	
CHK	Prof	MM	

DRN. M. Haller	DATE 7-11-67	
CHK'D	DATE 7/18/67	
ENG. M. Siegel	DATE 7/21/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
SET-RESET FLIP FLOP MODULE M203

SIZE	CODE	NUMBER	REV.
B	CS	M203-0-1	B

PRINTED CIRCUIT REV. C

DIST. 324 434 3/435

PINK

DEC FORM NO.
DRB 102

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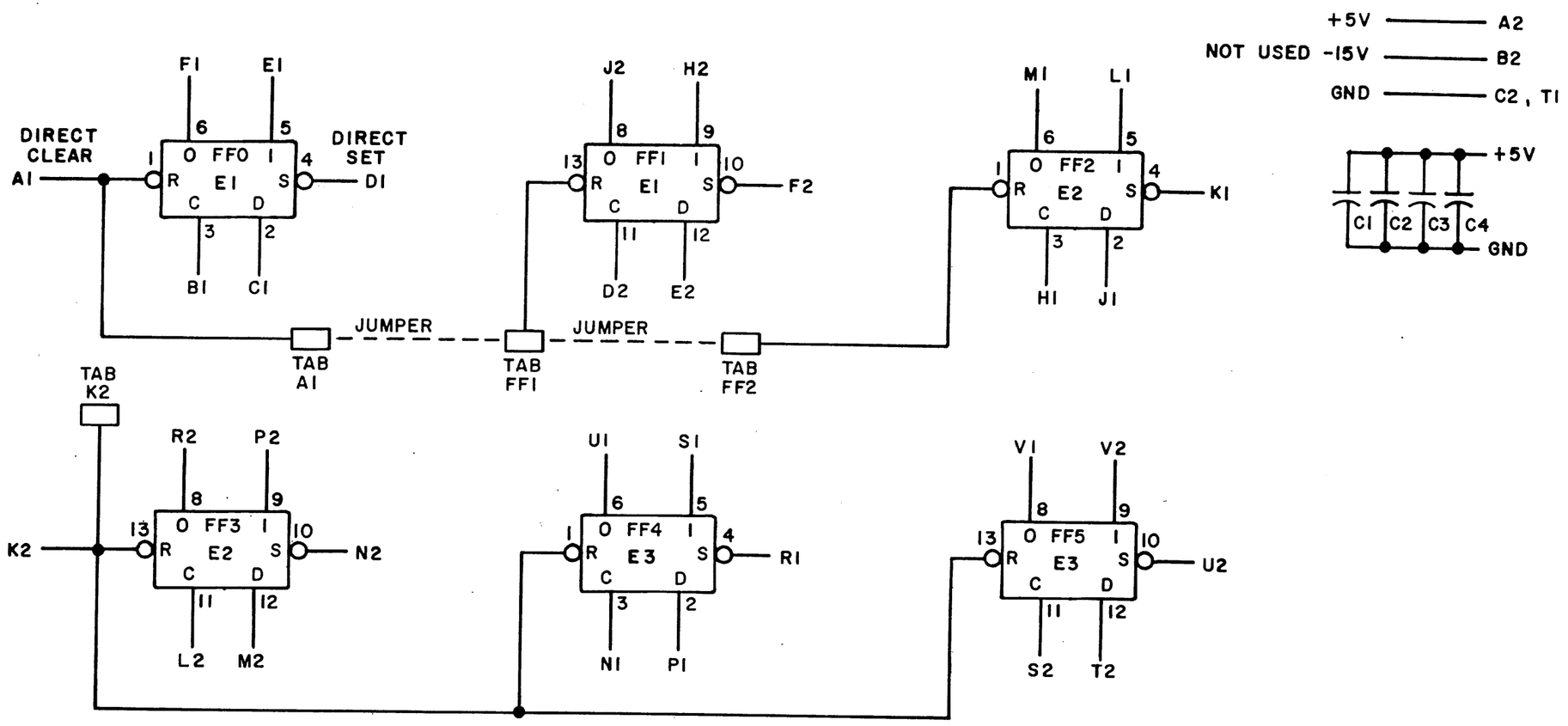

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M206-0-0
C1 THRU C4	CAP. .01MFD 100V 20% DISC	1001610
E1 THRU E3	INTEGRATED CKT. DEC7474N	1905547

PARTS LIST

REVISIONS	REV.	CHG NO.	CHK
	A	6810	
	B	00001	

DRN. M. Waller	DATE 4-15-67	
CHK'D	DATE 4-21-67	
ENG. L. White	DATE 4-21-67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: SIX FLIP-FLOPS M206

SIZE	CODE	NUMBER	REV.
B	CS	M206-0-1	B

PRINTED CIRCUIT REV. D

DIST. 324 434 435

PINK

DEC FORM NO.
DRB 102

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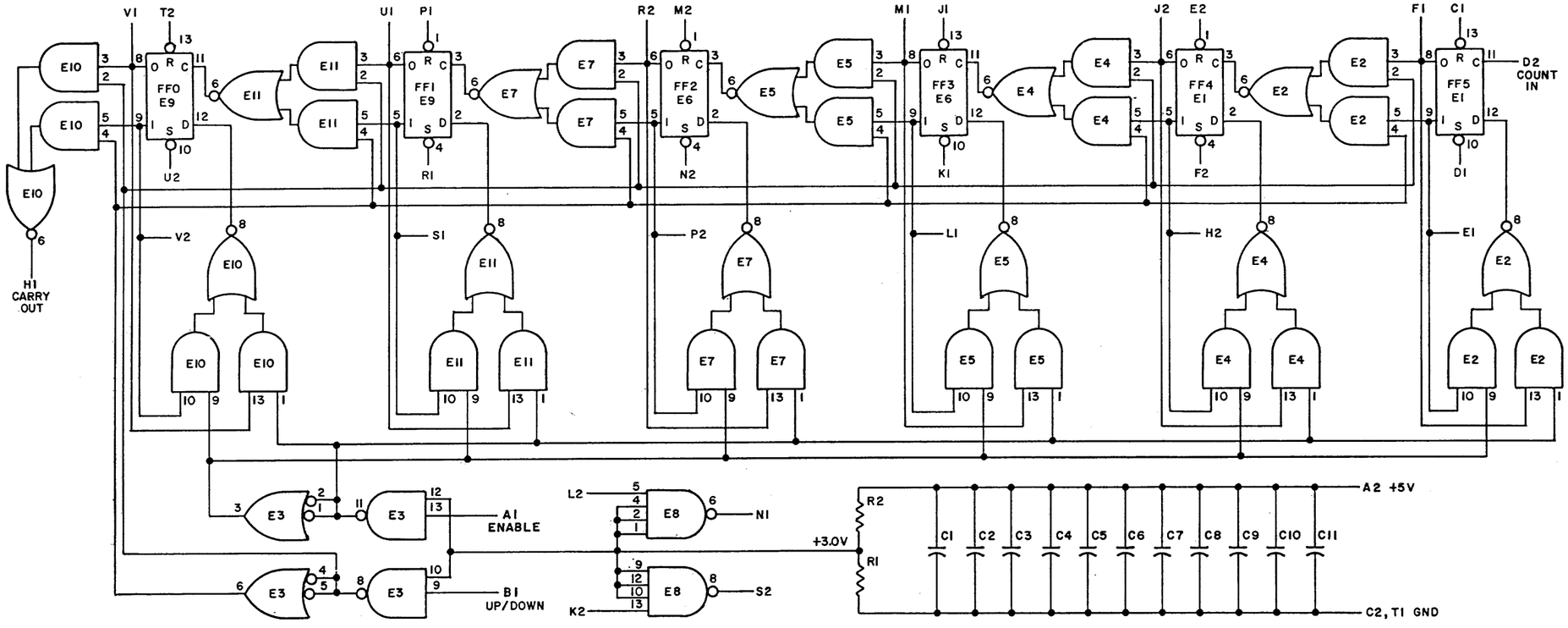

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
DEC7451N MAY BE USED IN PLACE OF DEC7450N

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M211-0-0
E8	INTEGRATED CKT. DEC7440N	1905579
E3	INTEGRATED CKT. DEC7400N	1905575
E2, E4, E5, E7, E10, E11	INTEGRATED CKT. DEC7450N	1905580
E1, E6, E9	INTEGRATED CKT. DEC7474N	1905547
R2	RES. 3.3K 1/4W 5% CC	1300439
R1	RES. 7.5K 1/4W 5% CC	1301422
C1 THRU C11	CAP. .01MFD 100V 20% DISC	1001610

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

REVISIONS	CHK	CHG NO.	REV.
		00001	A
		00002	C

DRN. m. Keller DATE 10-12-67
CHK'D DATE
ENG. DATE 11/10/67
PROD. DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE BINARY UP/DOWN COUNTER M211

SIZE C | CODE CS | NUMBER M211-0-1 | REV. C

PRINTED CIRCUIT REV. B

DEC FORM NO. DRC 102

4 IC 324,454,435 PINS

REV. C | SIZE C | CODE CS | NUMBER M211-0-1

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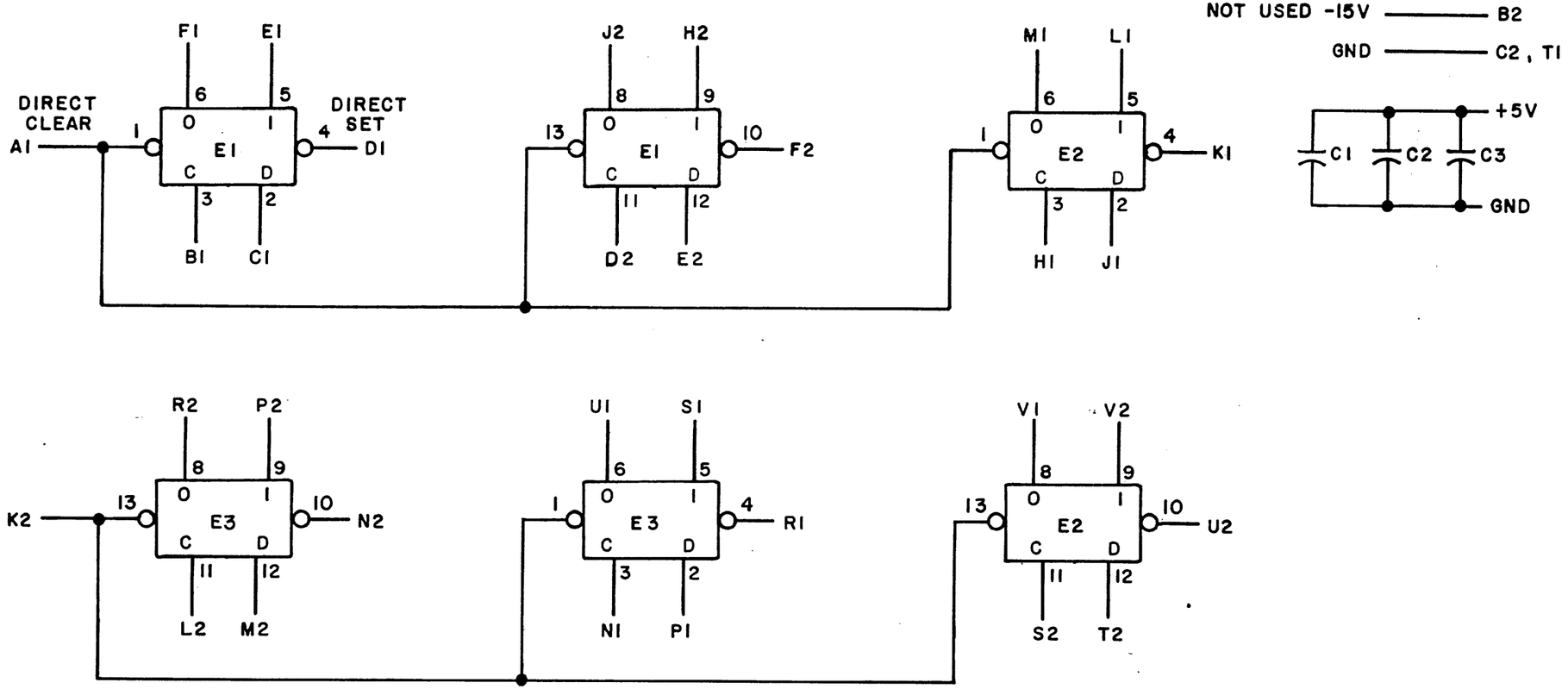

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
E1 THRU E3	INTEGRATED CKT. DEC7474N	1905547
C1 THRU C3	CAP. .01 MFD 100V 20% DISC	100610
	PARTS LIST	A-PL-M216-0-0

PARTS LIST

REVISIONS			
REV.	A	B	
CHG NO.	6806	00001	
CHK		MM	

DRN.	M. Waller	DATE 4-15-67
CHK'D		DATE 4/26/67
ENG.		DATE 4/28/67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: SIX FLIP-FLOPS M216

SIZE	CODE	NUMBER	REV.
B	CS	M216-0-1	B

PRINTED CIRCUIT REV. C

DEC FORM NO.
DRB 102

PINK | DIST. 324 | 434 | 433 1/3 5/

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SIZE D | CODE CS | NUMBER M220-0-1 | REV C

AC2 E10 — AT2, AU2 — AU1
AC3 E10 — AV2, AV1
MB2 E8 — AR1
MB3 E8
PC2 E9 — AR2, AP1 — AN2
PC3 E9 — AP2, AN1
MA2 E4 — AM1, AM2 — AK1 — AJ1
MA3 E4 — AL1, AL2 — AK2
E7 — AS1, AS2

+5V ——— AA2, BA2
GND ——— AC2, AT1, BC2, BT1

R6 330 5%, R7 750 5%, +3V, C9, C1, C2, C3, C4, C5, C6, C7, C8, +5V, GND

E1, E2, E3, E5, E6

MB2(0) +3V
ADDER Ø AB1
BB2
MB3(0) +3V
ADDER 5 AJ2

+5V, +3V, R4 3,000 5%, R5 3,000 5%, R3 3,000 5%, Q1 DEC3009B
TT LINE SHIFT — AB2

AND	AA1
SHIFT RIGHT	AD2
SHIFT RIGHT TWICE	AD1
NO SHIFT	AE1
SHIFT LEFT	AF2
SHIFT LEFT TWICE	AH1
ADDER 1	AC1
ADDER 2	AE2
ADDER 3	AF1
ADDER 4	AH2

ADDER 2 E13 — BK2 C2 — CO BJ1 — ADDER 3 E13

E16, E14, E17, E12, E15, E18

AC2 (1)	AC2 (0)	MQ2 (1) BH1		SR2 BE1	SC2 BD1	DATA 2 BM2	IO 2 BK1		MA2 (1)	PC2 (1)	MEM 2 BR1	DATA ADD. 2 BS1		BE2	AC3 (1)	AC3 (0)	MQ3 (1) BM2		SR3 BD2	SC3 BN1	DATA 3 BP2	IO 3 BM1		MA 3 (1)	PC3 (1)	MEM 3 BV2	DATA ADDRESS 3 BU1
											+5V, R1 180			+3V											BR2	BV1	

AC ENABLE	BH2
AC ENABLE	BJ2
MQ ENABLE	BF1
SR ENABLE	BC1
SC ENABLE	BF2
DATA ENABLE	BL1
IO ENABLE	BL2
MA ENABLE	BP1
PC ENABLE	BS2
MEM ENABLE	BU2
DATA ADDRESS ENABLE	BT2

UNLESS OTHERWISE INDICATED:
E4, E8, E9, E10 ARE DEC7474N

E3, E5, E6 ARE DEC7460N
E1, E2, E12, E15, E14, E16, E17, E18 ARE DEC7483N
E13 IS DEC7482N
PIN 7 ON EACH IC EXCEPT E13 = GND
PIN 11 ON E13 = GND
PIN 14 ON EACH IC EXCEPT E13 = +5V
PIN 4 ON E13 = +5V
RESISTORS ARE 1/4W; 10%
CAPACITORS ARE 0.8 MFD, 35V, 20%
E7 & E11 ARE DEC7440N

PARTS LIST A-PL-M220-0-0

REVISIONS	CHK	CHG NO.	REV.
	MP	00001	A
	-	00002	B
	-	00003	C

DRN. M. Waller DATE 3-15-67
CHK'D DATE
ENG DATE
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: MAJOR REGISTERS M220
SIZE D | CODE CS | NUMBER M220-0-1 | REV.
PRINTED CIRCUIT REV.

DEC FORM NO. DRD 101

SIZE D | CODE CS | M220-0-1 | REV C

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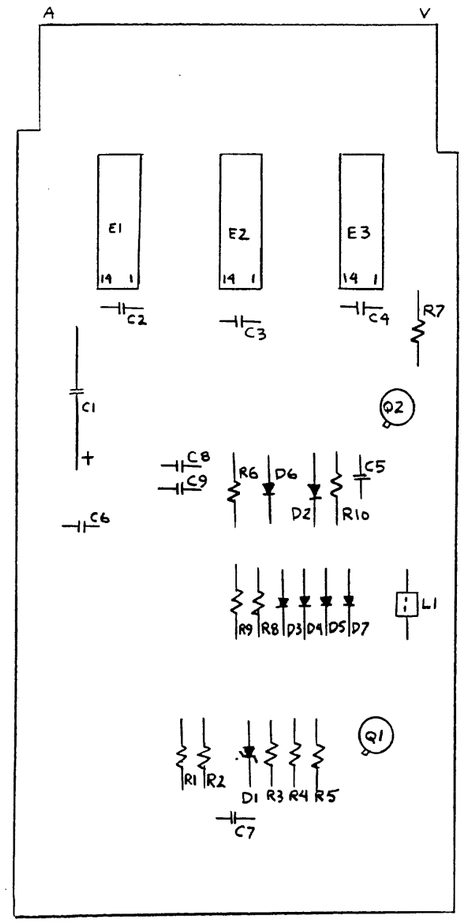

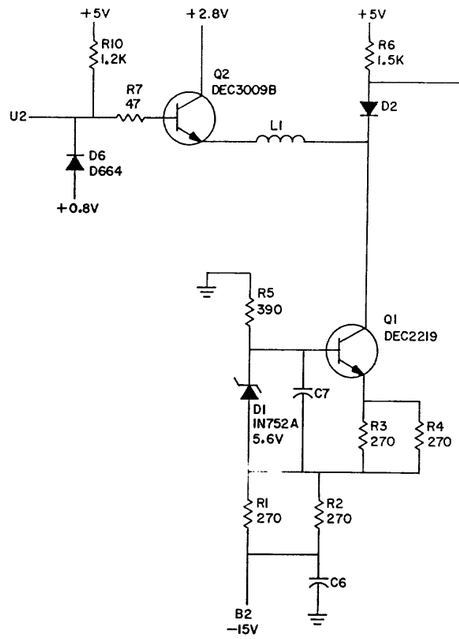

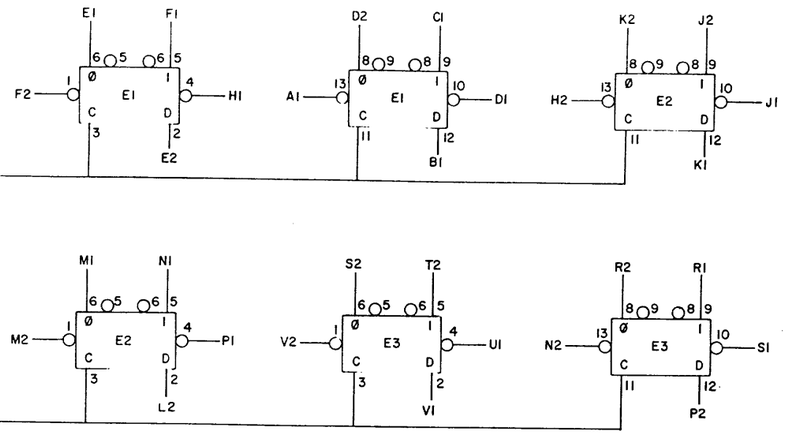

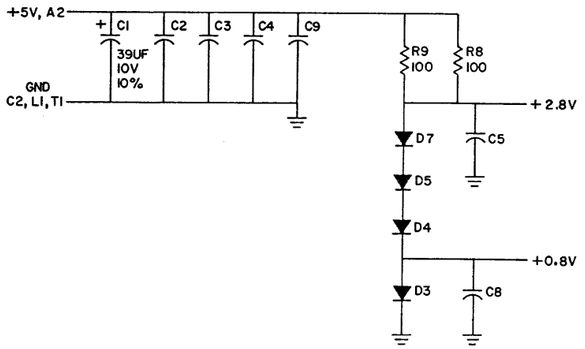

UNLESS OTHERWISE INDICATED:

CAPACITORS = .01UF, 100V, 20%
RESISTORS = 1/4W, 5%
DIODES = D662
ALL IC'S = DEC1074H74
PIN 7 = GND
PIN 14 = +5V ON ALL IC'S
L1 IS FERRITE BEAD DEC5209508

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
21	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
20	9006732	EYELET #GS 4-7	2
19	5209508	FERRITE BEAD,	1
18	1910553	I.C. DEC1074H74	3
17	1501881	TRANSISTOR DEC 2219	1
16	1503100	TRANSISTOR DEC 3009B	1
15	1301972	RES. 270, ¼W, 5%	4
14	1301320	RES. 1.2K, ¼W, 5%	1
13	1300391	RES. 1.5K, ¼W, 5%	1
12	1300309	RES. 390, ¼W, 5%	1
11	1300229	RES. 100, ¼W, 5%	2
10	1300202	RES. 47, ¼W, 5%	1
9	1102808	DIODE 1N752A 5.6V, ZENER	1
8	1100114	DIODE D664	1
7	1100113	DIODE D662	5
6	1001610	CAP. .01UF, 100V, 20% DISC	8
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5008535	ETCHED CIRCUIT BOARD	1
3	B-MH-M241-0-6	MODULE ECO HISTORY	
2	C-AH-M241-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M241-0-4	X-Y COORDINATE HOLE LOCATION	

SIZE C | CODE CS | NUMBER M241-0-1 | REV A

REVISIONS				
SYM	CHG NO	REV		
	00001	A	D. WATSON	6/1/70

DRN	NANCY MOORE	DATE 12/17/70
CHK'D		DATE
ENG		DATE
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009	D664	IN3606
DEC2219	2N2219	D662	IN645
		IN752A	SAME

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 6 TYPE D FLIP-FLOPS M241

SIZE C | CODE CS | NUMBER M241-0-1 | REV A

PRINTED CIRCUIT REV B

DEC FORM NO. DRF 1-05

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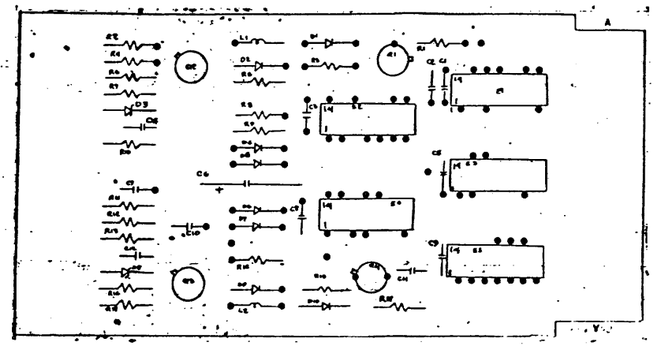
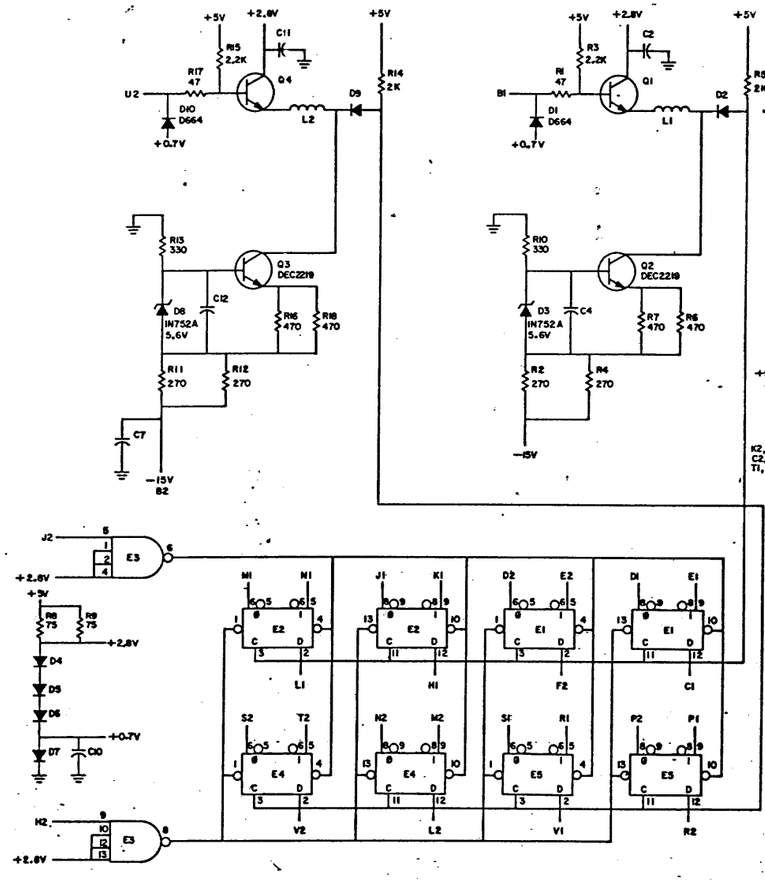


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
TRANSISTORS ARE DEC3009B
DIODES ARE D662
DEC 8T74 H74 = E1, E2, E4, E5
DEC 8T74 H40 = E3
PIN 7 = GND
PIN 14 = +5V
L1, L2 = FERRITE BEAD



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
23	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
22	9006732	EYELET BGS 4-7	2
21	5209508	FERRITE BEAD	2
20	1910553	I.C. DEC 1074 H74	4
19	1910469	I.C. DEC 1074 H40	1
18	1503100	TRANSISTOR DEC 3009B	2
17	1501881	TRANSISTOR DEC 2219	2
16	1302388	RES. 2K, 1/4W, 5%	2
15	1302379	RES. 75, 1/4W, 5%	2
14	1301972	RES. 270, 1/4W, 5%	4
13	1300417	RES. 2.2K, 1/4W, 5%	2
12	1300316	RES. 470, 1/4W, 5%	4
11	1300295	RES. 330, 1/4W, 5%	2
10	1300202	RES. 47, 1/4W, 5%	2
9	1102808	DIODE 1N752A, 5.6V	2
8	1100114	DIODE D664	2
7	1100113	DIODE D662	6
6	1001610	CAP. .01UF, 100V, 20% DISC	11
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009332	ETCHED CIRCUIT BOARD	1
3	B-MM-M243-0-6	MODULE ECO HISTORY	
2	C-AM-M243-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M243-0-4	X-Y COCADINATE HOLE LOCATION	

PARTS LIST

REVISIONS			
ECO	CHG NO	REV	
SAM00001		B	

DSN Harry Hyatt 12-03-69
DWN Dan Pi 2-19-70
ENG [illegible] DATE
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		
IN752A	SAME		
DEC2219	2N2219		
DEC3009B	2N3009		

TITLE: 8 TYPE D FLIP FLOPS M243

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

SIZE D | CODE CS | NUMBER M243-0-1 | REV B

PRINTED CIRCUIT REV. B

M-892

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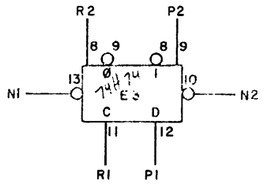
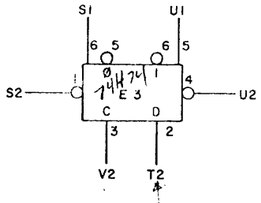
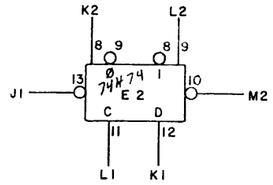
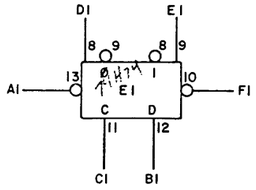
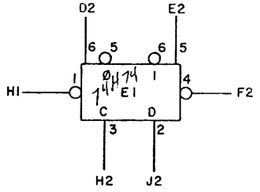
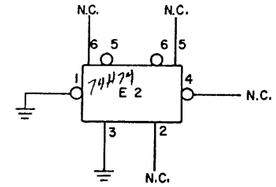


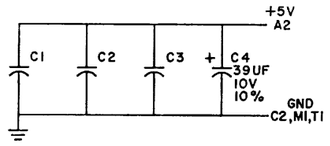


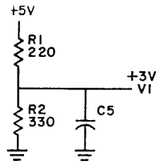




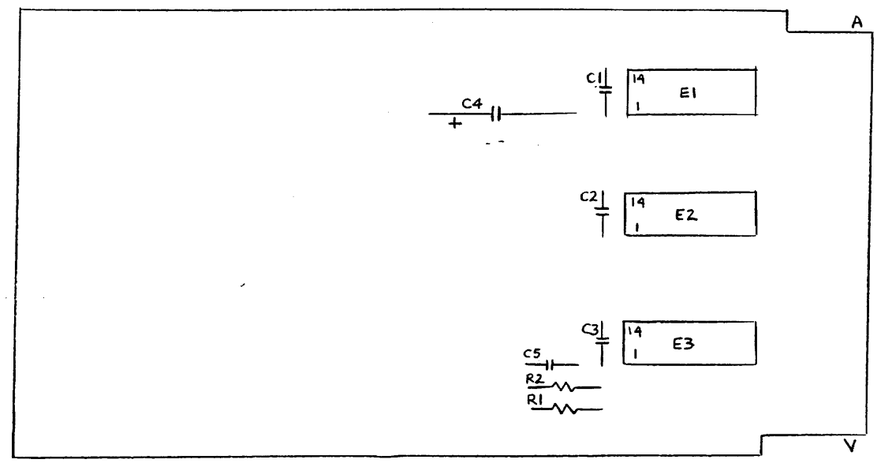








UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
IC'S ARE DEC1074H74
PIN 7= GND
PIN 14=+5V ON EACH IC



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1940553	I.C. DEC1074H74	3
8	1300295	RES. 330, ¼W, 5% CC	1
7	1300271	RES. 220, ¼W, 5% CC	1
6	1001610	CAP. .01UF, 100V, 20% DISC	4
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009357	ETCHED CIRCUIT BOARD	1
3	B-MH-M246-0-6	MODULE ECO HISTORY	
2	C-AH-M246-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M246-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

REVISIONS			
CHK	CHG NO.	REV.	
DW	00001	A	

DRN.	S. COOPER	DATE 12/18/70
CHK'D		DATE
ENG.		DATE
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: 5 D FLIP FLOPS M246

SIZE	CODE	NUMBER	REV.
C	CS	M246-0-1	A

PRINTED CIRCUIT REV. A

DEC FORM NO. DRC 102

REV A | NUMBER M246-0-1 | CODE CS | SIZE C

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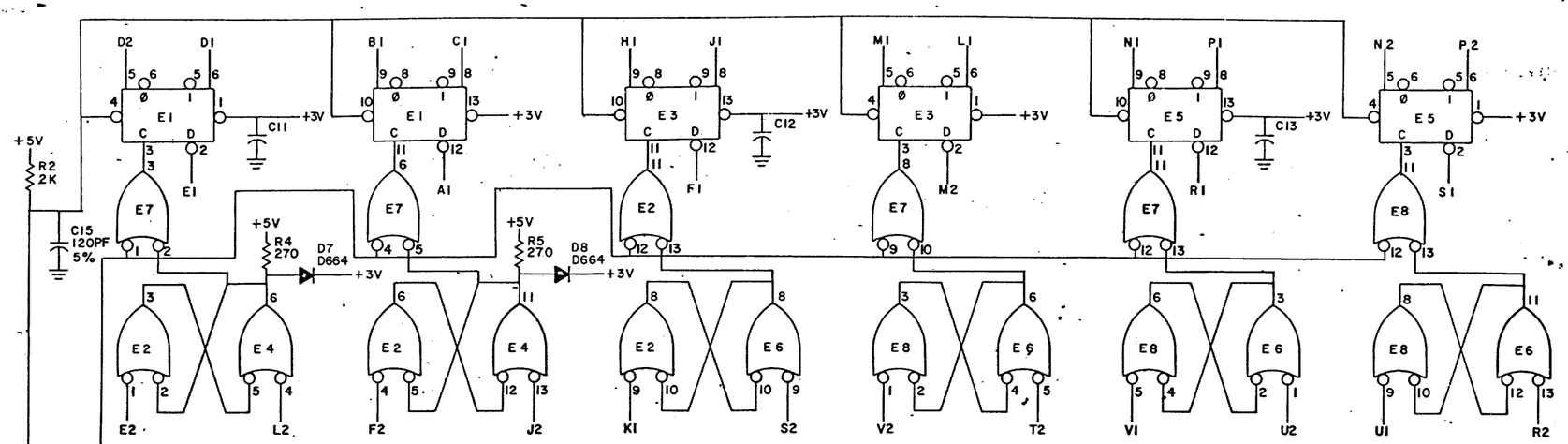
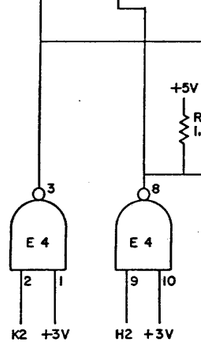
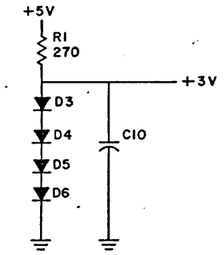
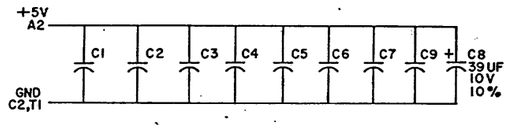


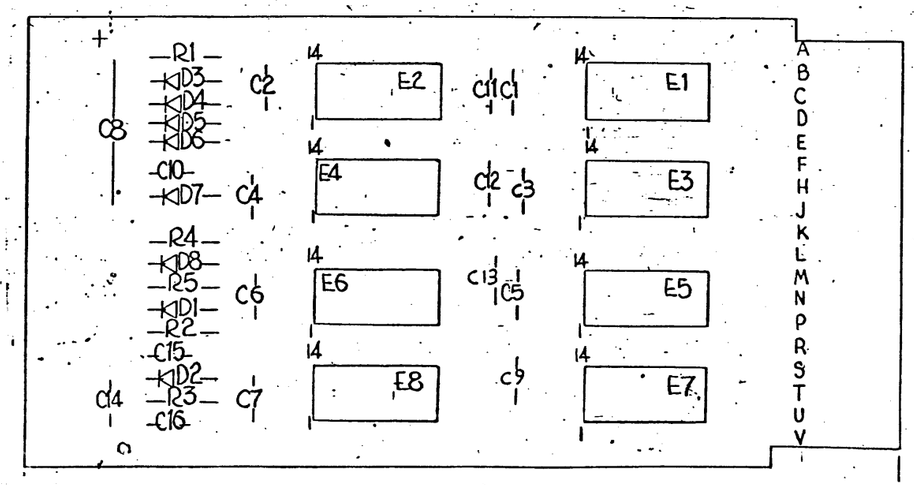






UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01 UF, 100V, 20%
DIODES ARE D662
E1, E3, AND E5 ARE DEC1074H74
E2, E6, E7, E8 ARE DEC1074H00
E4 IS DEC1074H01

PIN 7 = GND
PIN 14=+5V ON EACH IC



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
18	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
17	9006732	EYELET #GS 4-7	2
16	1910887	I.C. DEC1074H01	1
15	1910553	I.C. DEC1074H74	3
14	~~1910464~~	~~I.C. DEC1074H10~~	~~2~~
13	1910462	I.C. DEC1074H00	4
12	1302388	RES. 2K, ¼W, 5%	1
11	1301320	RES. 1.2K, ¼W, 5%	1
10	1301972	RES. 270, ¼W, 5%	3
9	1100114	DIODE D664	4
8	1100113	DIODE D662	4
7	1001610	CAP. .01UF, 100V, 20% DISC	13
6	1000076	CAP. 39UF, 10V, 10% S. TANT	1
5	1000018	CAP. 120PF, 100V, 5%	2
4	5009354	ETCHED CIRCUIT BOARD	1
3	B-MM-M247-0-6	MODULE ECO HISTORY	
2	C-AH-M247-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M247-0-4	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
D662	IN645		

REVISIONS			
CHK	CHG NO.	REV.	
	00001	C	D

DRN. S. COOPER DATE 12/11/70
CHK'D DATE
ENG. P. Sullivan DATE 1-7-71
PROD. DATE 5-10-72

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CONSOLE SWITCH FLIP FLOPS M247
SIZE C | CODE CS | NUMBER M247-0-1 | REV. D
PRINTED CIRCUIT REV. C

REV. D | NUMBER M247-0-1 | CODE CS | SIZE C

DIC FORM NO. DNC 102

15

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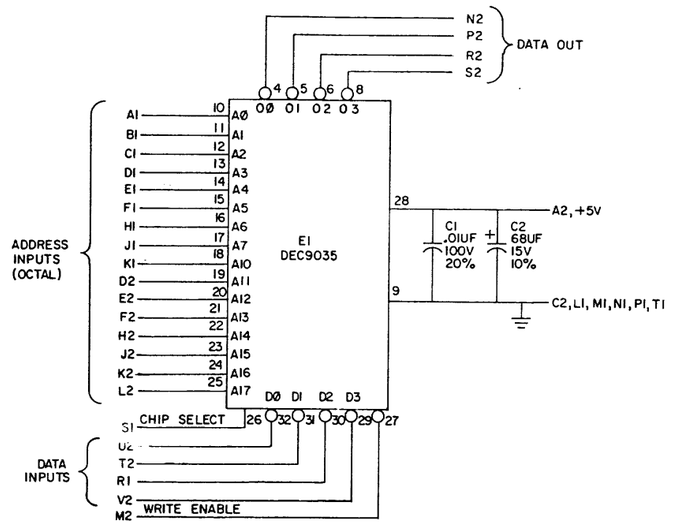
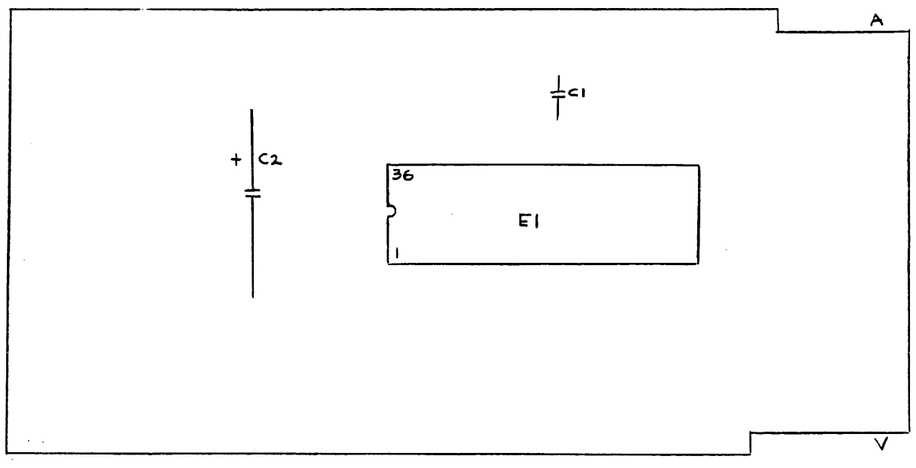




ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
9	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
8	9006732	EYELET #GS 4-7	2
7	1909722	I.C. DEC 9035	1
6	1001610	CAP. .01UF, 100V, 20% DISC	1
5	1000082	CAP. 68UF, 15V, 10% S. TANT	1
4	5008796	ETCHED CIRCUIT BOARD	1
3	B-MH-M250-0-6	MODULE ECO HISTORY	
2	C-AH-M250-0-5	ASSY/DRILLING HOLE LAYCUT	
1	K-CO-M250-0-4	X-Y COORDINATE HOLE LOCATION	

SIZE C | CODE CS | NUMBER M250-0-1 | REV. A

REVISIONS

CHK	CHG NO.	REV.

DRN	NANCY MOORE	DATE 11/12/70
CHK'D		DATE
ENG.		DATE 12-23-70
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

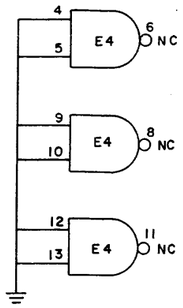
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

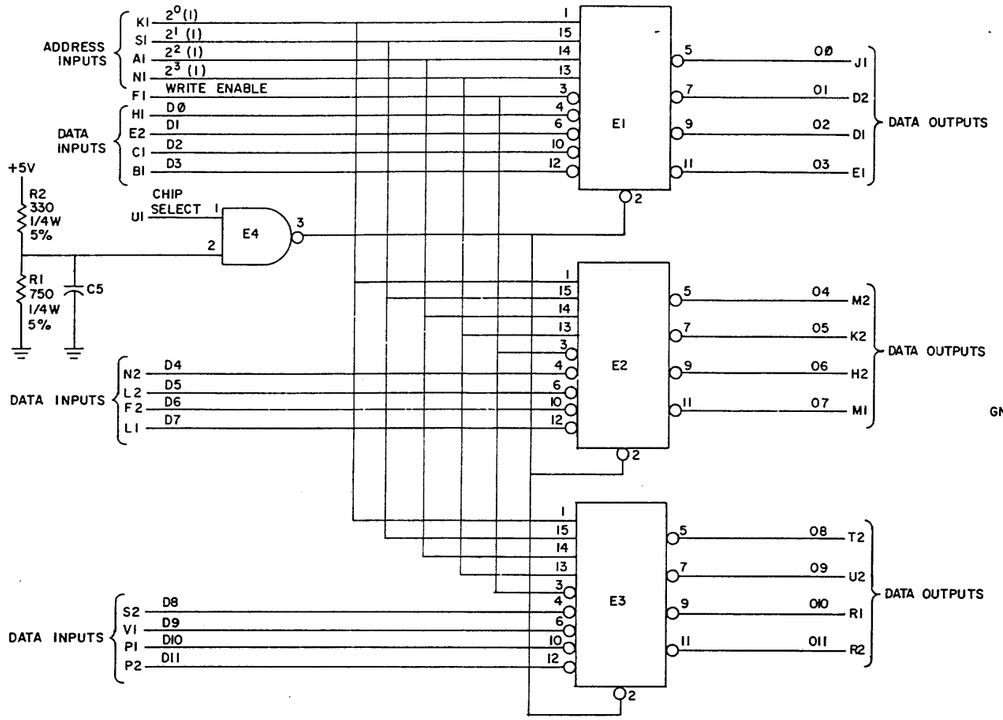
TITLE 4 BIT 16 WORD MEMORY M250

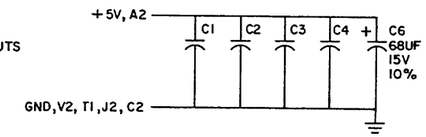
SIZE	CODE	NUMBER	REV.
C	CS	M250-0-1	A

PRINTED CIRCUIT REV. B

DEC FORM NO. DRC 102

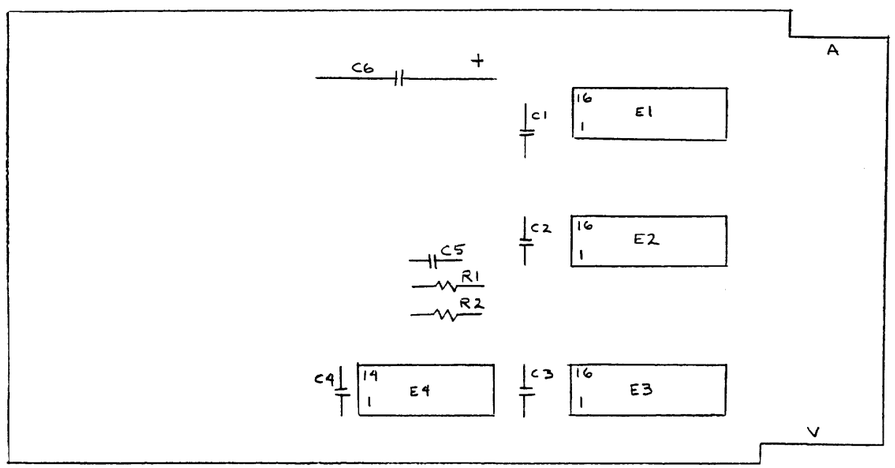






UNLESS OTHERWISE INDICATED:
CAPACITORS = .01UF, 100V, 20%
E1, E2, E3 = DEC7489
E4 = DEC1074H00

PIN 8 = GND ON E1–E3
PIN 16 = +5V
PIN 7 = GND ON E4
PIN 14 = +5V



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
12	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
11	9006732	EYELETS #GS4-7	2
10	19/0396	I.C. DEC 7489	
9	1910462	I.C. DEC 1074H00	1
8	1901401	RES. 750, ¼W, 5%	1
7	1830295	RES. 330, ¼W, 5%	1
6	1001610	CAP. .01UF, 100V, 20% DISC	4
5	1000082	CAP. 68UF, 15V, 10% TANT	1
4	5009407	ETCHED CIRCUIT BOARD	1
3	E-PH-M253-0-6	INCLUDE ECO HISTORY	
2	C-AH-M253-0-5	ASSY/DRILLING PLOT LAYOUT	
1	E-SO-M253-0-4	X-Y COORDINATE DATA LISTING	

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART

EIA	DEC	EIA

REVISIONS
LTR | ENGINEERING CHANGE NO | REV
A | 00001 | B

DRN NANCY MOORE 1/14/71
CHK'D
ENG.
MFG

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE 12 BIT 16 WORD MEMORY M253

SIZE	CODE	NUMBER	REV
C	CS	M253-0-1	B

PRINTED CIRCUIT REV B

SIZE C | CODE CS | NUMBER M253-0-1 | REV B

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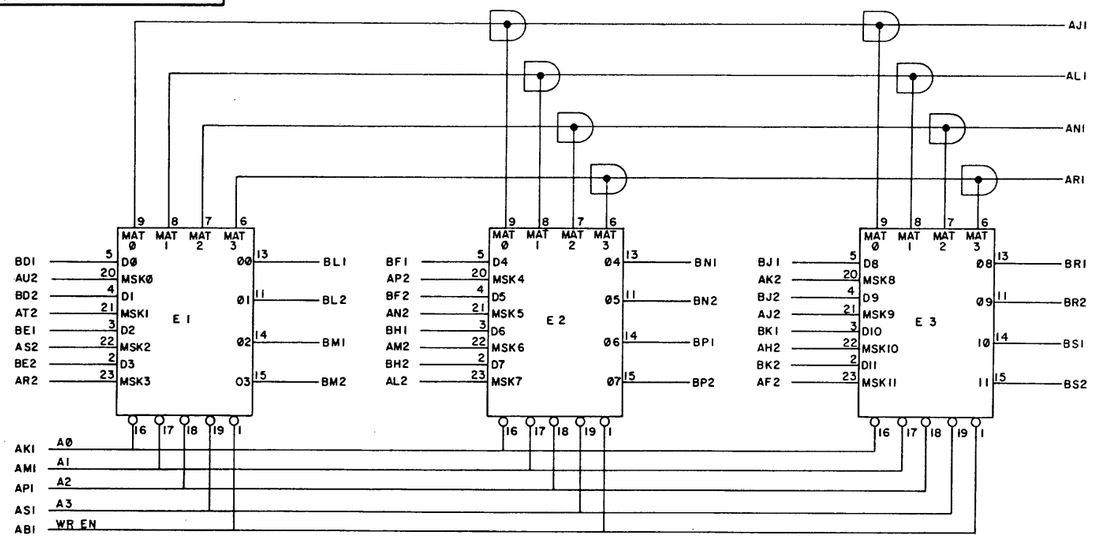

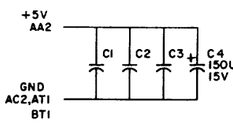

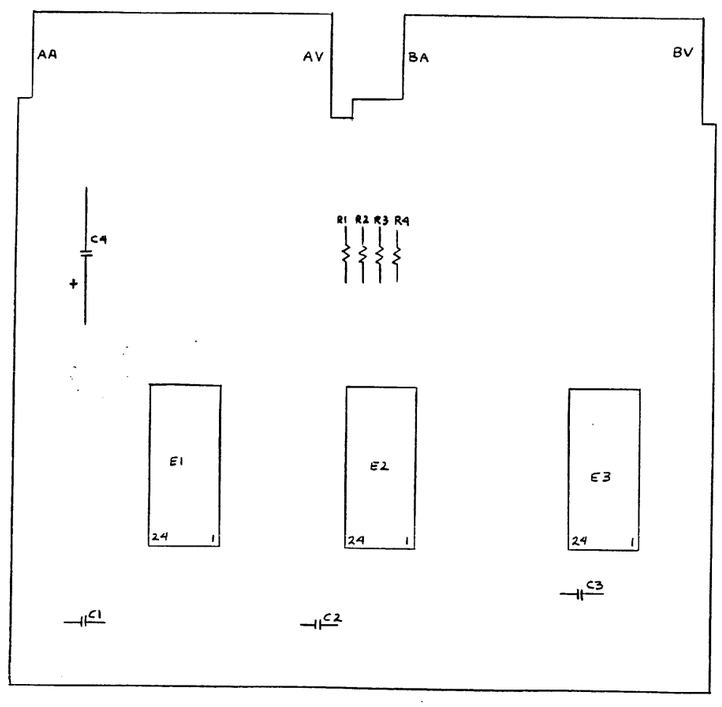

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 5%
CAPACITORS ARE .01UF, 100V, 20%
IC'S ARE DEC4102
PIN 12 = GND
PIN 24 = +5V ON EACH IC

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
10	9008337-06	HANDLE, FLIP CHIP - MAGENTA	2
9	9006732	EYELET #GS 4-7	4
8	1909721	I.C. DEC 4102	3
7	1300365	RES. 1K, ¼W, 5%	12
6	1001610	CAP. .01UF, 100V, 20% DISC	3
5	1000084	CAP. 150UF, 15V, 20%	1
4	5009394	ETCHED CIRCUIT BOARD	1
3	B-MH-M260-0-6	MODULE ECO HISTORY	
2	D-AH-M260-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M260-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS | REV | CHK | CHG NO.

DRN S. COOPER DATE 10/71
CHK'D DATE 12-71
ENG DATE
PROD DATE 10/71

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 16 WORD X 12 BIT ASS. MEM. CELL M260

SIZE D | CODE CS | NUMBER M260-0-1 | REV.

PRINTED CIRCUIT REV. A

SIZE D | CODE CS | NUMBER M260-0-1 | REV

DEC FORM NO. 9BB 116

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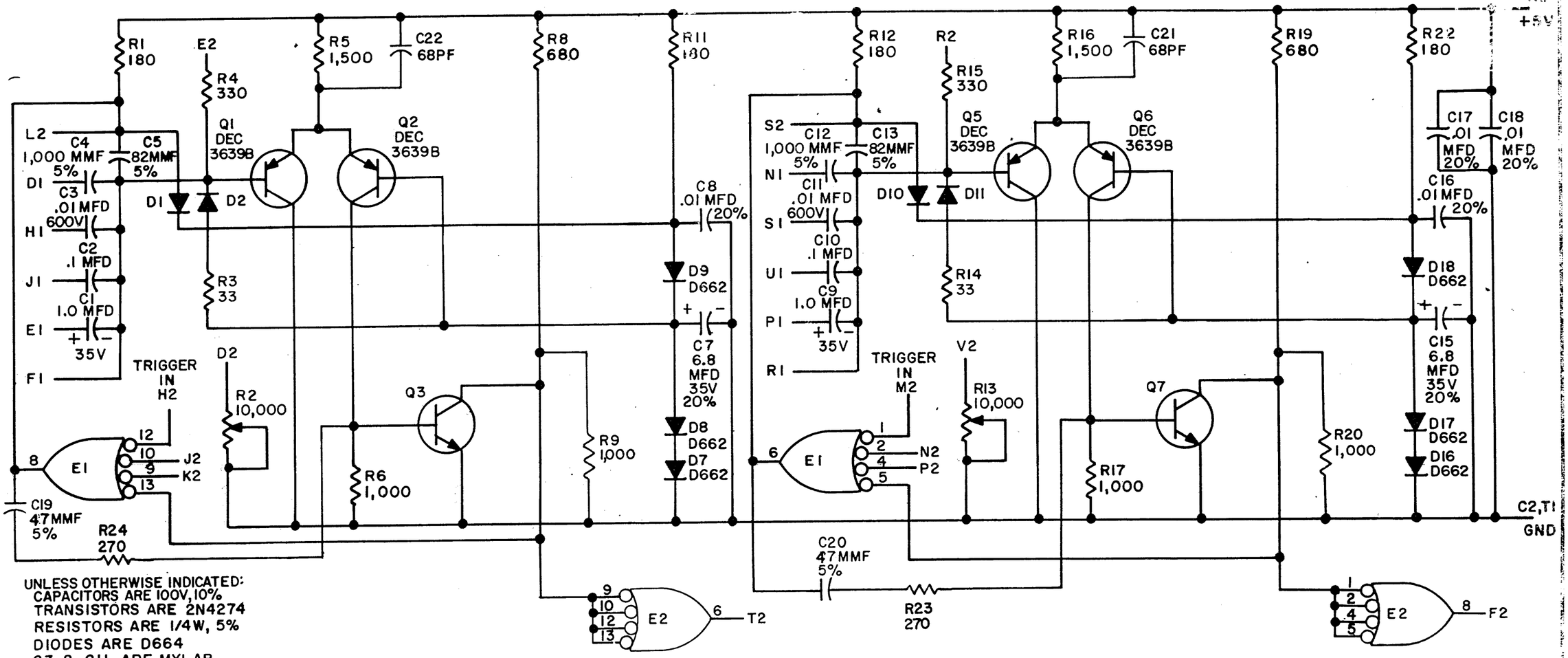

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 100V, 10%
TRANSISTORS ARE 2N4274
RESISTORS ARE 1/4W, 5%
DIODES ARE D664
C3 & C11 ARE MYLAR
E1 IS DEC74H40N
PIN 7 ON IC'S = GND
PIN 14 ON IC'S = +5V
R2 & R13 ARE HELITRIM POT #78PR
1.0MFD CAPACITORS ARE TANTALUM
E2 IS DEC7413N

PARTS LIST A-PL-M302-0-0

REVISIONS											
REV.		B	C	D	E	F	H	J	K	L	
CHG NO.		6507	6719		6881	7077	000001	000002	000003	000004	
CHK											

DRN.	M. Haller	DATE 6-15-67
CHK'D		DATE 6/21/67
ENG.	L. White	DATE 6/21/67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
2N4274	SAME		
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: ONE SHOT DELAY M302

SIZE	CODE	NUMBER	REV.
B	CS	M302-0-1	L

PRINTED CIRCUIT REV. L

DIST. 324 | 434 | 435 2 4 PINK

DEC FORM NO.
DRB 102

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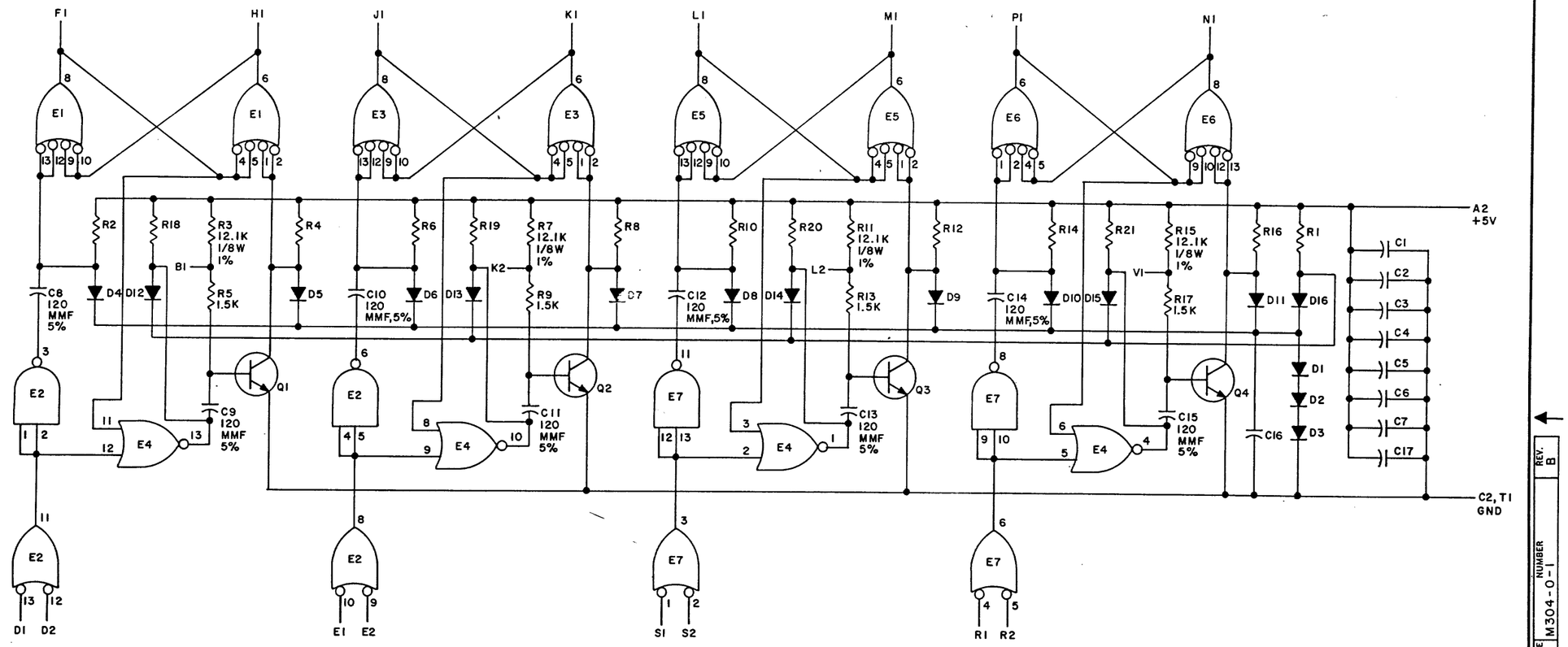

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1K
RESISTORS ARE 1/4W, 5%
TRANSISTORS ARE DEC3009B
E1, E3, E5, E6 ARE DEC7440
E2, E7 ARE DEC7400
E4 IS DEC7402
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
DIODES ARE D664
CAPACITORS ARE .01 MFD, 100V, 20%

REVISIONS

CHK	CHG NO.	REV.
	00001	A
	00002	B

DRN. M. Waller	DATE 4-22-69	
CHK'D M. Moreland	DATE 4-23-69	
ENG. R. [illegible]	DATE [illegible]	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	1N3606		
DEC3009B	2N3009		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: ONE SHOT DELAY M304

SIZE	CODE	NUMBER	REV.
C	CS	M304-0-1	B

PRINTED CIRCUIT REV. B

DEC FORM NO. DRC 102

DIST.

REV. B
SIZE C | CODE CS | NUMBER M304-0-1

SIZE	CODE	NUMBER	REV
B	CS	M307-0-1	C

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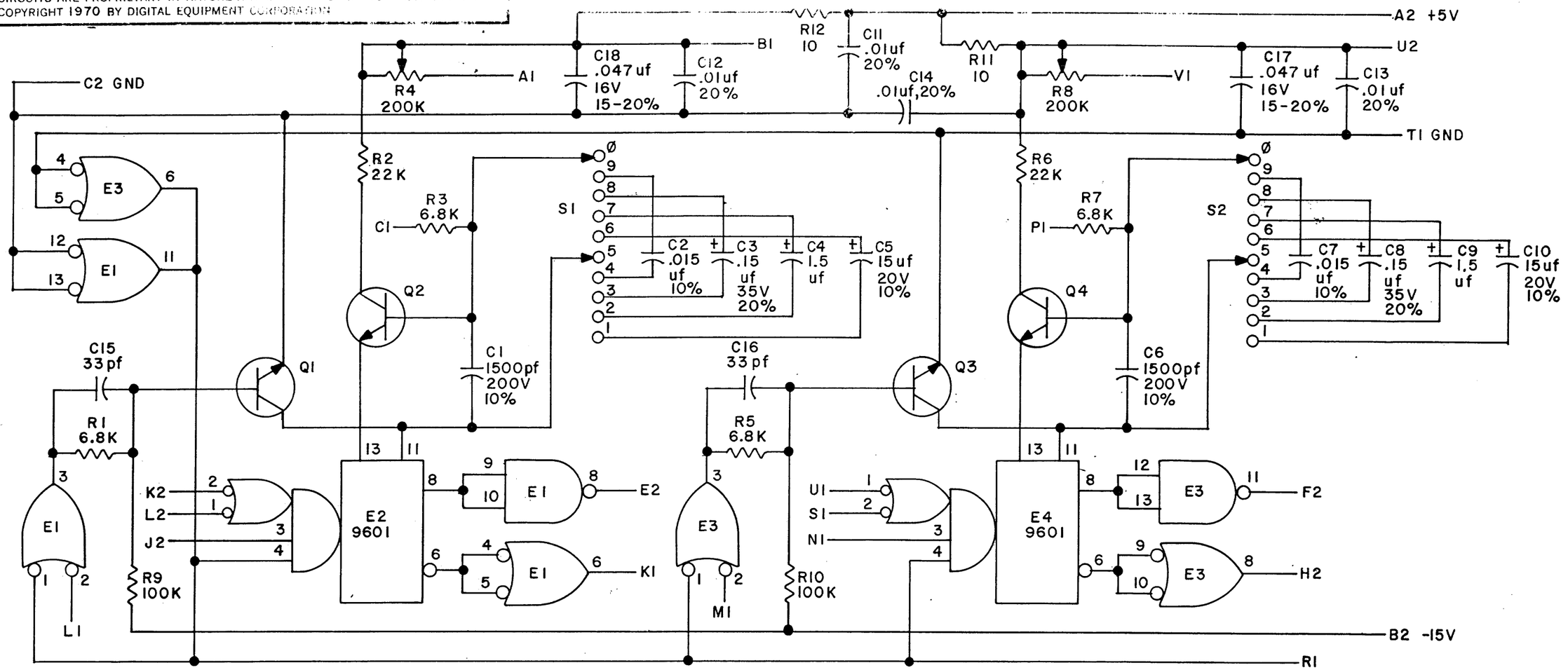
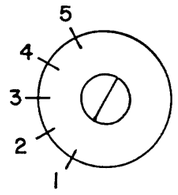


UNLESS OTHERWISE INDICATED:
- TRANSISTORS ARE DEC 3009B
- RESISTORS ARE 1/4 W, 5%
- CAPACITORS ARE 100V, 5%
- R4 & R8 ARE 78PR POTS
- SWITCHES ARE 2 POLE, 5 POSITION SPECTROL
- E1, E3 ARE DEC7400
- PIN 7 ON EACH IC = GND
- PIN 14 ON E1, E3 = +5V
- PIN 14 ON E2 = VCC, PIN B1
- PIN 14 ON E4 = VCC, PIN U2



RANGE
- 5 — 5 µsec. — 50 µsec.
- 4 — 50 µsec. — 500 µsec.
- 3 — 500 µsec. — 5 msec.
- 2 — 5 msec. — 50 msec.
- 1 — 50 msec. — 500 msec.

REVISIONS				
CHK	CHG NO.	REV.		
MH	00001	A		
REV. & REDR.				
Per 00002		B		
G. BUDIANSKY				
00003		C		

DRN. M. HALLER	DATE 9-3-69	
CHK'D A. YAUGA	DATE 9-3-69	
ENG. R. SCHWEGLER	DATE 9-4-69	
PROD. R. SCHWEGLER	DATE 9-4-69	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC 3009B	2N3009		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: INTEGRATING ONE SHOT M307

SIZE	CODE	NUMBER	REV.
B	CS	M307-0-1	C

PRINTED CIRCUIT REV. B

DEC FORM NO. DRB 102

5 PINK DIST 3,24,434,435, 3

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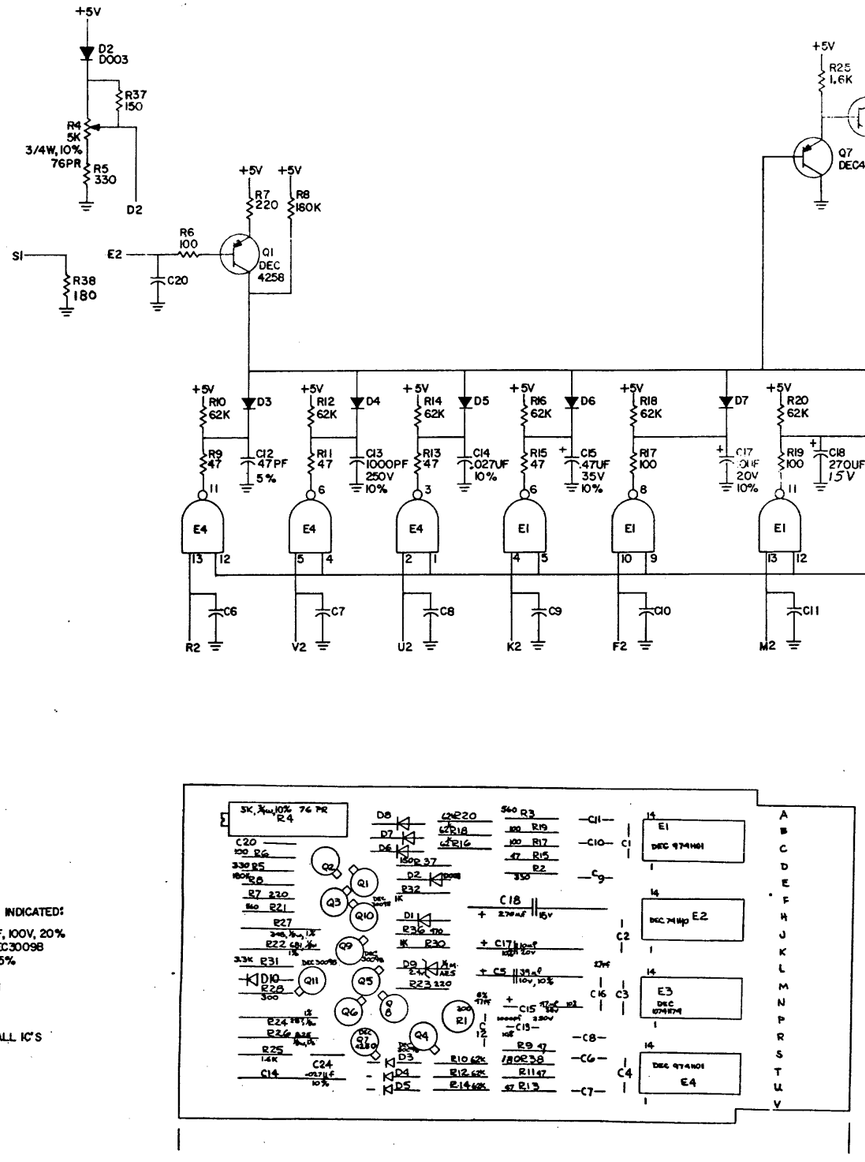

UNLESS OTHERWISE INDICATED:

CAPACITORS = .01UF, 100V, 20%
TRANSISTORS = DEC3009B
RESISTORS = 1/4W, 5%
DIODES = D664
E1, E4 = DEC9741101
E2 = DEC74H10
E3 = DEC1074H74

PIN 7 = GND
PIN 14 = +5V ON ALL IC'S

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
42	1322	RES. 180 ¼W 5%	1
41	1001736	CAP. 27PF 100V 5% MICA	1
40	3051284	RES. 287 1/8W 1% MF	1
39	1302866	RES. 825 1/8W 1% MF	1
38	1300202	RES. 47 ¼W 5%	4
37	1509142	TRANSISTOR DEC 4250	1
36	1301425	RES. 300 ¼W 5%	1
41	1300271	RES. 220 ¼W 5%	2
40	1309150-11	RES 200 ¼W 20% 62PR POT	1
39	1304858	RES. 348 1/8W 1% MF	1
38	1304878	RES. 681 1/8W 1% MF	1
37	1000018	CAP. 180PF 100V 5%	1
36	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
35	9006732	EYELET	2
34	1910176-0	I.C. DEC 974H01	2
33	1910563	I.C. DEC1074H74	1
32	1909057	I.C. DEC 74H10	1
31	1505321	TRANSISTOR DEC 4258	6
30	1503100	TRANSISTOR DEC 3009B	4
29	1309143-09	RES. 5K 3/4W 10% 76PR POT	1
28	1304840	RES. 62K ¼W 5%	6
27	1303176	RES. 1.6K ¼W 5%	1
26	1302397	RES. 180K, ¼W, 5%	1
25	1301890	RES. 560, ¼W, 5%	2
24	1300439	RES. 3.3K, ¼W, 5%	1
23	1300365	RES. 1K, ¼W, 5%	2
22	1300295	RES. 330, ¼W, 5%	2
21	1300316	RES. 470, ¼W 5%	1
20	1000047	RES. 150, ¼W 5%	1
19	1300250	RES. 150, ¼W, 5%	1
18	1300229	RES. 100, ¼W, 5%	1
17	1101938	DIODE ½W, 2.4V, AZ5	1
16	1100114	DIODE D664	8
15	1100100	DIODE DO03	1
14	1001813	CAP. 10UF 20V 10% S.TANT	1
13	1001886	CAP. 270UF 15V 10% S.TANT	1
12	1005965	CAP. .47UF 35V 10% TANT	1
11	1001610	CAP. .01UF. 100V. 20% DISC	12
10	1000076	CAP. 39UF, 10V, 10% TANT	1
9	1000061	CAP. 2.2UF, 16V, 10% TANT	1
8	1000043	CAP. 1000PF 250V 10% DISC	1
7	1000049	CAP. .027UF 100V 10% MYLAR	1
6	1000011	CAP. 47PF 100V 5% D.M.	1
5	1000014	CAP. 470PF, 100V, 5%	1
4	5009409	ETCHED CIRCUIT BOARD	1
3	D-AA-M308-0-6	MODULE ECO HISTORY	
2	D-AA-M308-0-5	ASSY/DRILLING HOLE LAYOUT	
1	D-CL-M308-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

REVISIONS				
CHG	CHG NO.	REV		
1	1000001	B		
2	1000021	C		
3	1000043	D	G. ATTERBURY	7/15/71

DRN. NANCY MOORE	DATE 11/15/71	
CHKD	DATE	
ENG. R.F. W...	DATE 7-7-71	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009	DEC4258	2N4258
DO03	IN994	D664	IN3606
AZ5	IN4370		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: INTEGRATING ONE SHOT M308

SIZE	CODE	NUMBER	REV
D	CS	M308-0-1	D

PRINTED CIRCUIT REV. C

DEC FORM NO. 888 116

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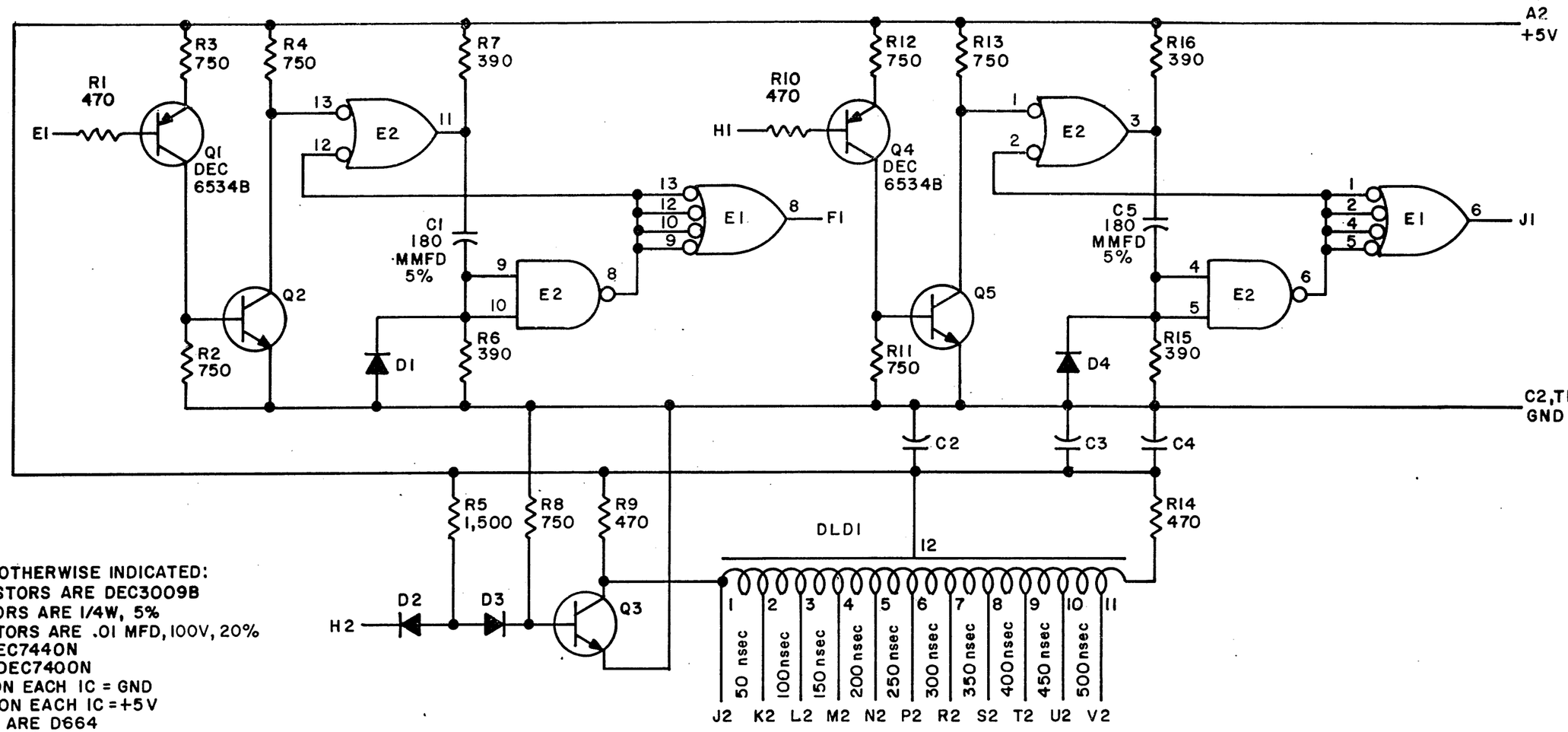

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC3009B
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01 MFD, 100V, 20%
E1 IS DEC7440N
E2 IS DEC7400N
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
DIODES ARE D664
DLD1 IS DEC16-05530

REVISIONS	CHK	CHG NO.	REV.
		6771	A
		00001	B
		00002	C
		00003	D

DRN. M. Haller	DATE 4-7-67	
CHK'D	DATE 5/5/67	
ENG.	DATE 5/5/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC6534B	MPS6534		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: DELAY LINE M310

SIZE	CODE	NUMBER	REV
B	CS	M310-0-1	D

PRINTED CIRCUIT REV. C

DEC FORM NO. DRB 102

DIST. 324, 434, 435

PINK

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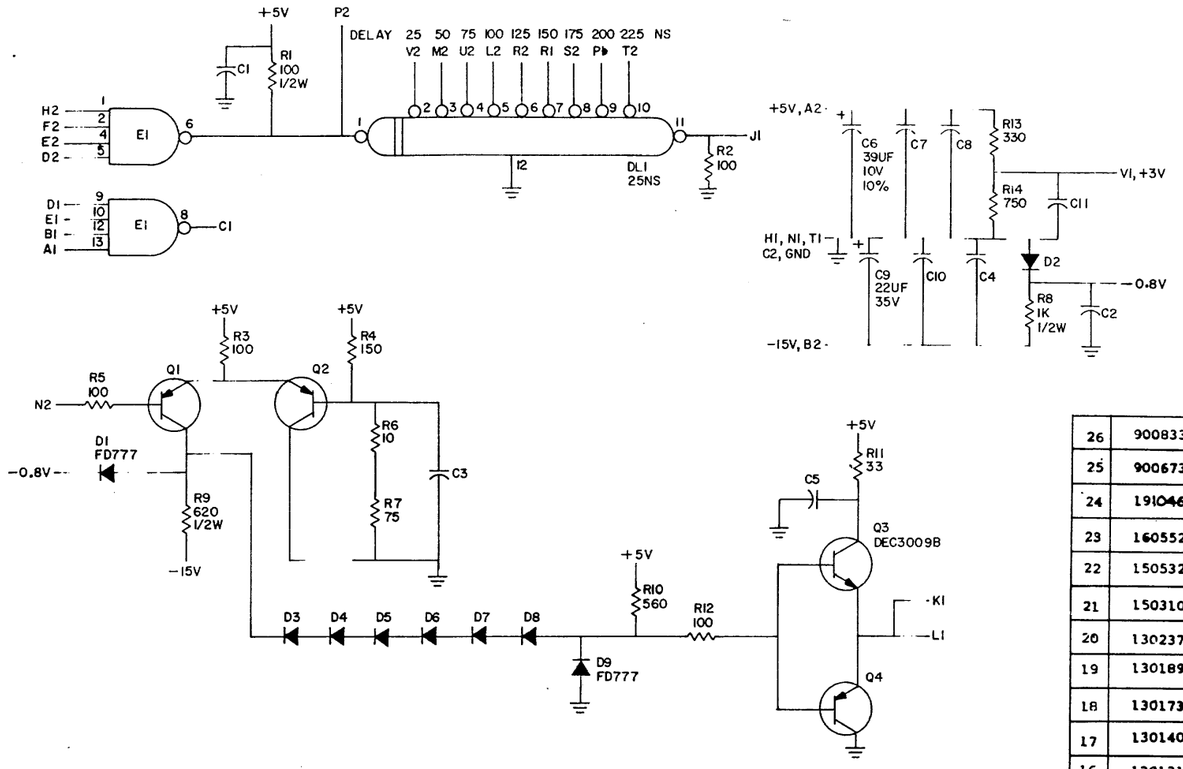

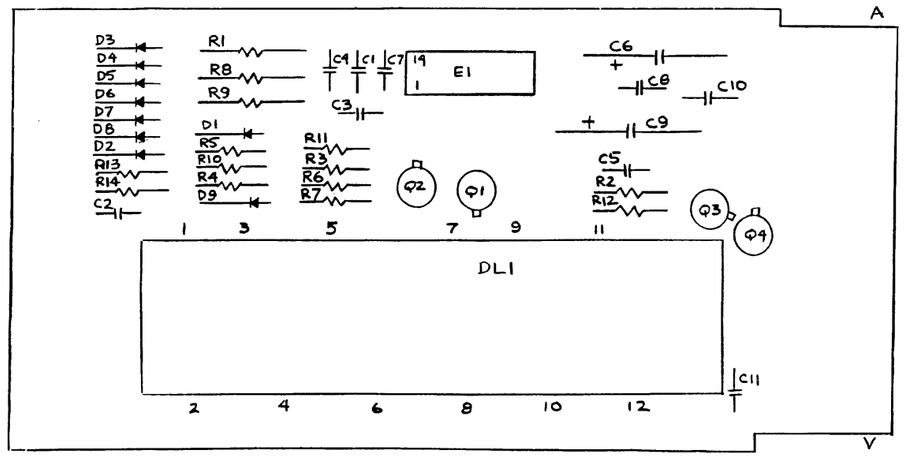

UNLESS OTHERWISE INDICATED:
CAPACITORS = .01UF, 100V, 20%
TRANSISTORS = DEC4258
RESISTORS = 1/4W, 5%
DIODES = D662
E1 = DEC1074H40
PIN 7 = GND ON E1
PIN 14 = +5V

26	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
25	9006732	EYELET #GS 4-7	2
24	1910469	I.C. DEC1074H40	1
23	1605529	DELAY LINE-DL-5183	1
22	1505321	TRANSISTOR DEC 4258	3
21	1503100	TRANSISTOR DEC 3009B	1
20	1302379	RES. 75, ¼W, 5%	1
19	1301890	RES. 560, ¼W, 5%	1
18	1301732	RES. 620, ¼W, 5%	1
17	1301401	RES. 750, ¼W, 5%	1
16	1301317	RES. 10, ¼W, 5%	1
15	1300364	RES. 1K, ¼W, 5%	1
14	1300295	RES. 330, ¼W, 5%	1
13	1300250	RES. 150, ¼W, 5%	1
12	1300229	RES. 100, ¼W, 5%	4
11	1300228	RES. 100, ½W, 5%	1
10	1300197	RES. 33, ¼W, 5%	1
9	1103041	DIODE FD777, 400V	2
8	1100113	DIODE D662	7
7	1002433	CAP. 22UF, 35V, 20% S. TANT	1
6	1001610	CAP. .01UF, 100V, 20% DISC	9
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009346	ETCHED CIRCUIT BOARD	1
3	B-MH-M321-0-[illegible]	MODULE ECO HISTORY	
2	C-AH-M321-0-[illegible]	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M321-0-[illegible]	X-Y COORDINATE HOLE LOCATION	

SIZE C | CODE CS | NUMBER M321-0-1 | REV. B

REVISIONS

REV.	CHG NO.	CHK
B	00001	

DRN. NANCY MOORE DATE 12/15/70
CHK'D DATE 2-10-71
ENG DATE 2-10-71
PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009	D662	1N645
FD777	SAME		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE TAPPED DELAY LINE M321

SIZE C | CODE CS | NUMBER M321-0-1 | REV. B

PRINTED CIRCUIT REV. B

DEC FORM NO. DRC 102

SIZE	CODE	NUMBER	REV.
B	CS	M360-0-1	B

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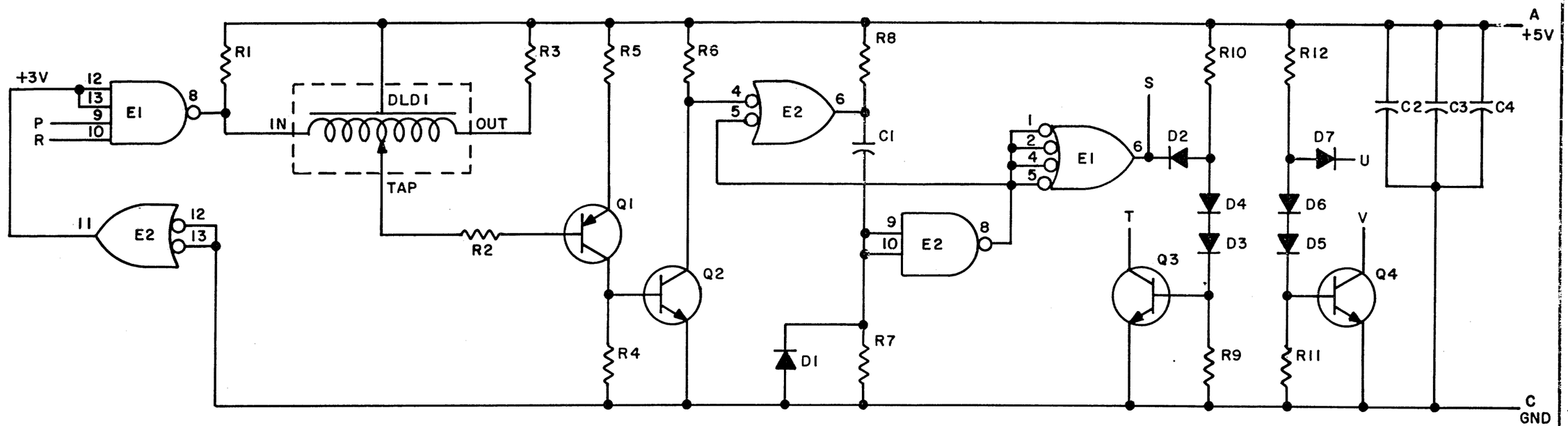

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M360-0-0
C1	CAP. 330MMF 100V 5% D.M.	1000023
C2, C3, C4	CAP. .01 MFD 100V 20% DISC	1001610
D1-D7	DIODE D664	1100114
R1, R2, R3, R8	RES. 470 1/4W 5% CC	1300316
R4, R5, R6	RES. 750 1/4W 5% CC	1301401
R7	RES. 220 1/4W 5% CC	1300271
R9, R11	RES. 3K 1/4W 5% CC	1300432
R10, R12	RES. 1.5K 1/4W 5% CC	1300391
Q2, Q3, Q4	TRANSISTOR DEC3009B-S	1503100
Q1	TRANSISTOR DEC6534B	1503409-01
E1	INTEGRATED CKT. DEC744ON	1905579
E2	INTEGRATED CKT. DEC740ON	1905575
DLD1	DELAY LINE 500	1602167

PARTS LIST

REVISIONS			
REV.	A	B	
CHG NO.	6978	7058	00001
CHK	P.S.	MM	

DRN.	M. Waller	3-31-67
CHK'D		DATE 5-5-67
ENG.		DATE 5/15/67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC6534B	MPS6534		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: VARIABLE DELAY M360

SIZE	CODE	NUMBER	REV.
B	CS	M360-0-1	B

PRINTED CIRCUIT REV. A B

DEC FORM NO.
DRB 102

DIST. 324 434 435

4 PINK

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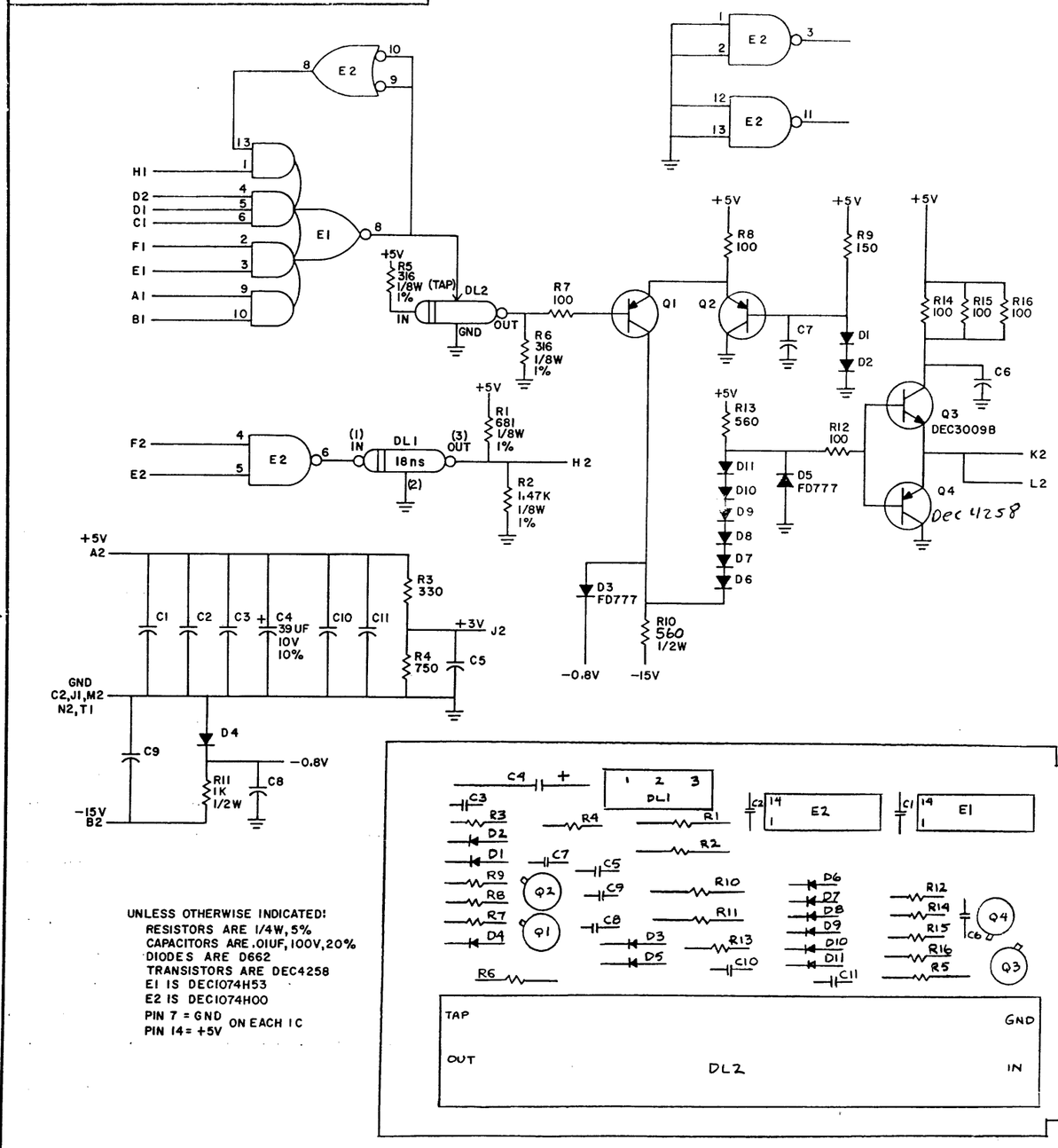

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
DIODES ARE D662
TRANSISTORS ARE DEC4258
E1 IS DEC1074H53
E2 IS DEC1074H00
PIN 7 = GND
PIN 14 = +5V
ON EACH IC

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
1	K-CO-M362-0-4	X-Y COORDINATE HOLE LOCATION	
2	C-AH-M362-0-5	ASSY/DRILLING HOLE LAYOUT	
3	B-MH-M362-0-6	MODULE ECO HISTORY	
4	5009380	ETCHED CIRCUIT BOARD	1
5	1001610	CAP. .01UF, 100v, 20%	10
6	1000076	CAP. 39UF, 10V, 10%	1
7	1100113	DIODE D662	9
8	1103041	DIODE FD777	2
9	1300229	RES. 100, ¼W, 5%	6
10	1300250	RES. 150, ¼W, 5%	1
11	1300364	RES. 1K, ¼W, 5%	1
12	1300338	RES. 560, ¼W, 5%	1
13	1301890	RES. 560, ¼W, 5%	1
14	1301401	RES. 750, ¼W, 5%	1
15	1304863	RES. 316, 1/8W, 1% MF	2
16	1300295	RES. 330, ¼W, 5%	1
17	1302872	RES. 681, 1/8W, 1% MF	1
18	1305108	RES. 1.47K, 1/8W, 1% MF	1
19	1503100	TRANSISTOR 3009 B-S	1
20	1505321	TRANSISTOR 2N4258	3
21	1610080	DELAY LINE 18 N SEC 390 10%	1
22	1610079-0	DELAY LINE 80 N SEC VAR 300Ω	1
23	1910462	I.C. DEC1074H00	1
24	1910514	I.C. DEC1074H53	1
25	9006	SYMBOL #35 4-7	2
26	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1

REV. C
SIZE C CODE CS NUMBER M362-0-1

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645	DEC30098	2N30098
FD777	SAME	DEC4258	2N4258

REVISIONS

REV	CHG NO.	CHK
C	00001	

DRN S. Cooper DATE 1/6/71
CHK'D DATE 1-27
ENG P.S. DATE 1-27-71
PROD DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE LATCHED REGISTER DRIVER M362
SIZE C CODE CS NUMBER M362-0-1 REV C
PRINTED CIRCUIT REV C

DEC FORM NO. DRC 102

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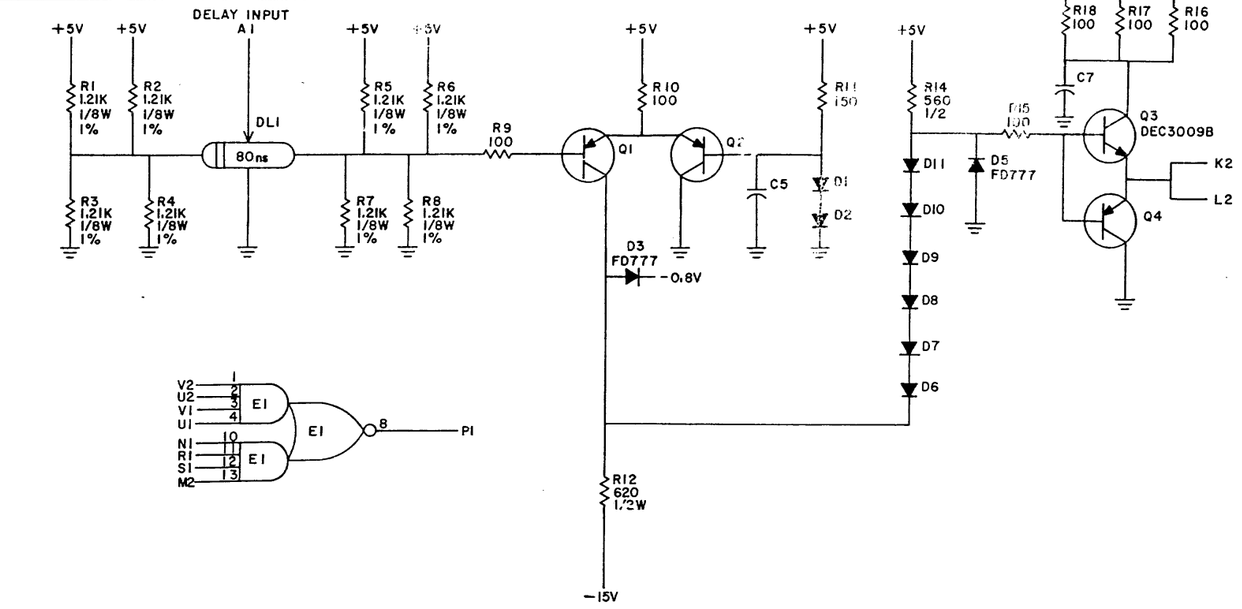
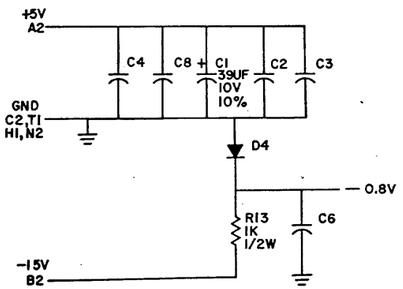
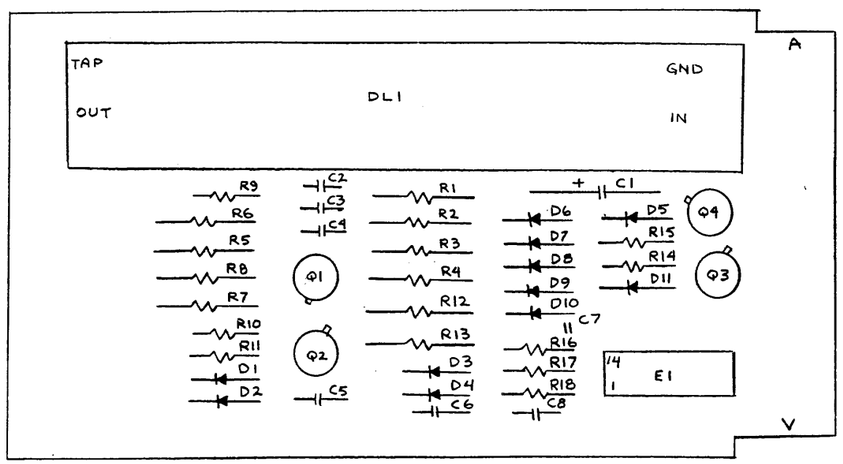




UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01 UF, 100V, 20%
DIODES ARE D662
TRANSISTORS ARE DEC4258
E1 IS 1074H55
PIN 7 ON IC = GND
PIN 14 ON IC = +5V
DELAY LINE IS A 1610079-0



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
20	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
19	9006732	EYELET #GS4-7	2
18	1610079-0	DELAY LINE BONDEC VAR 300 5%	1
17	19[illegible]	I.C. DEC 1074H55	1
16	1505321	TRANSISTOR 2N4258	3
15	1503100	TRANSISTOR DEC 3009B	1
14	1302871	RES. 1.21K 1/8W 1% MF	8
13	1301890	RES. 560 ¼W 5%	1
12	1301732	RES. 620 ½W 5%	1
11	1300364	RES. 1K ¼W 5%	1
10	1300250	RES. 150 ¼W 5%	1
9	1300229	RES. 100 ¼W 5%	6
8	1103041	DIODE FD777	2
7	1100113	DIODE D662	9
6	1000610	CAP. .01UF 100V 20% DISC	7
5	1000076	CAP. 39UF 10V 10% S. TANT	1
4	5009113	ETCHED CIRCUIT BOARD	1
3	B-MH-M363-0-6	MODULE ECO HISTORY	
2	C-AH-M363-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M363-0-4	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009B		
DEC4258	2N4258		
D662	1N645		
FD777	NONE		

REVISIONS					
REV.	B	C	D		
CHG NO.	00001	REV B REDR	0000 2	0003	
CHK	DW				

		DATE
DRN.	S. COOPER	8/3/70
CHK'D	R. WALDIE	8/26/70
ENG.	[illegible]	8/26/70
PROD		DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: VARIABLE DELAY M363

SIZE	CODE	NUMBER	REV.
C	CS	M363-0-1	D

PRINTED CIRCUIT REV. B

DEC FORM NO. DRC 102

C CS M363-0-1 D

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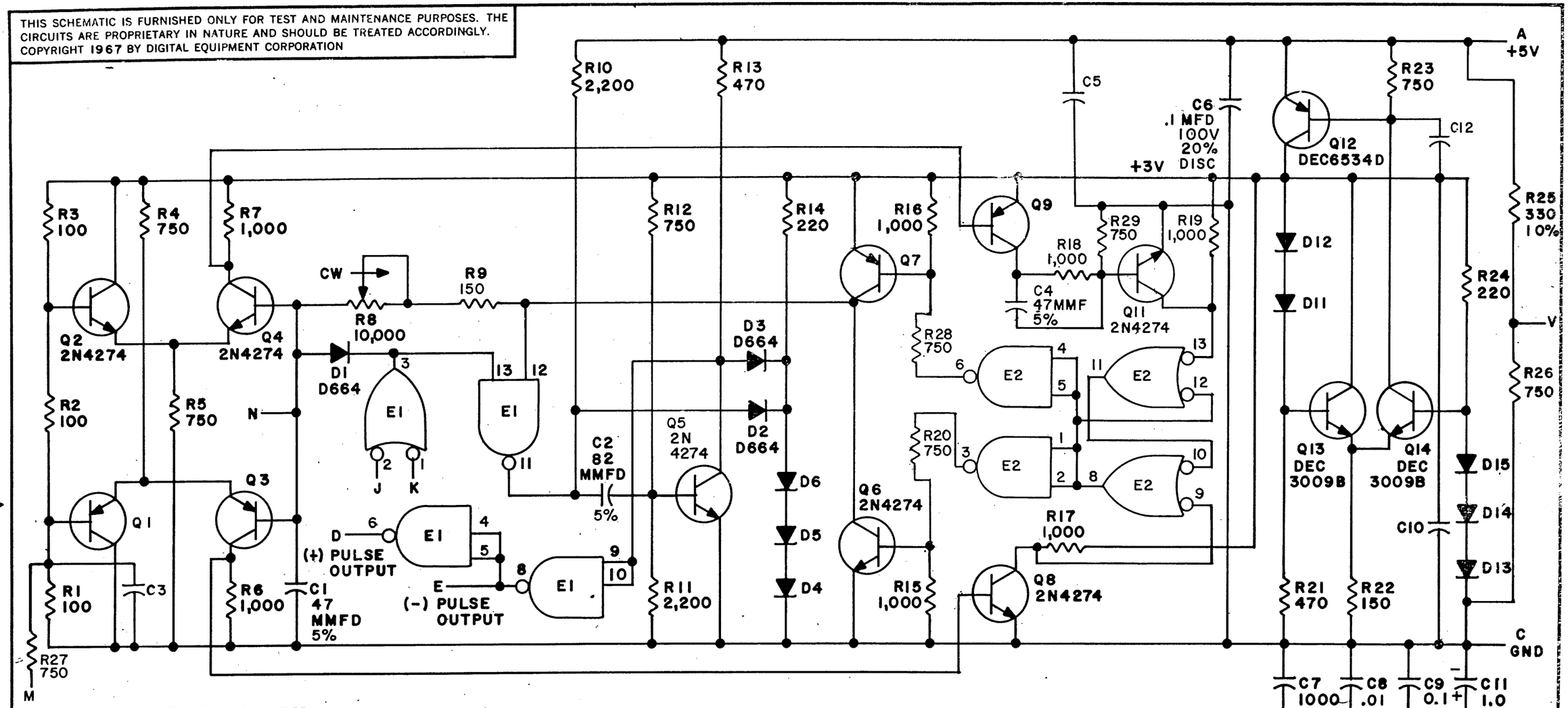
SIZE	CODE	NUMBER	REV.
B	CS	M401-0-1	M



UNLESS OTHERWISE INDICATED:
- DIODES ARE D662
- CAPACITORS ARE .01 MFD, 100V, 20%
- RESISTORS ARE 1/4W, 5%
- E1 IS DEC7400, E2 IS DEC74H00
- PIN 7 ON IC = GND
- PIN 14 ON IC = +5V
- TRANSISTORS ARE DEC4258
- R8 IS A HELITRIM POT 10%-78PR

PARTS LIST A-PL-M401-0-0

REVISIONS	CHK	CHG NO.	REV.
		6769	A
		6844	B
		00001	C
		00002	D
		00003	
		00004	F
		00005	J
		00006	K
		00007	L
		00008	M

DRN. M. Waller	DATE	9-11-67
CHK'D A. Subramanian	DATE	9/13/67
ENG. A. P. White	DATE	9/13/67
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009	D662	IN645
DEC4258	2N4258	D664	IN3606
2N4274	SAME		
DEC6534D	MPS6534		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE VARIABLE CLOCK M401

SIZE	CODE	NUMBER	REV.
B	CS	M401-0-1	M

PRINTED CIRCUIT REV. M

DEC FORM NO. DRB 102

4 | DIST. | 324 | 434 | 435 | PINK

SIZE	CODE	NUMBER	REV.
B	CS	M405-0-1	C

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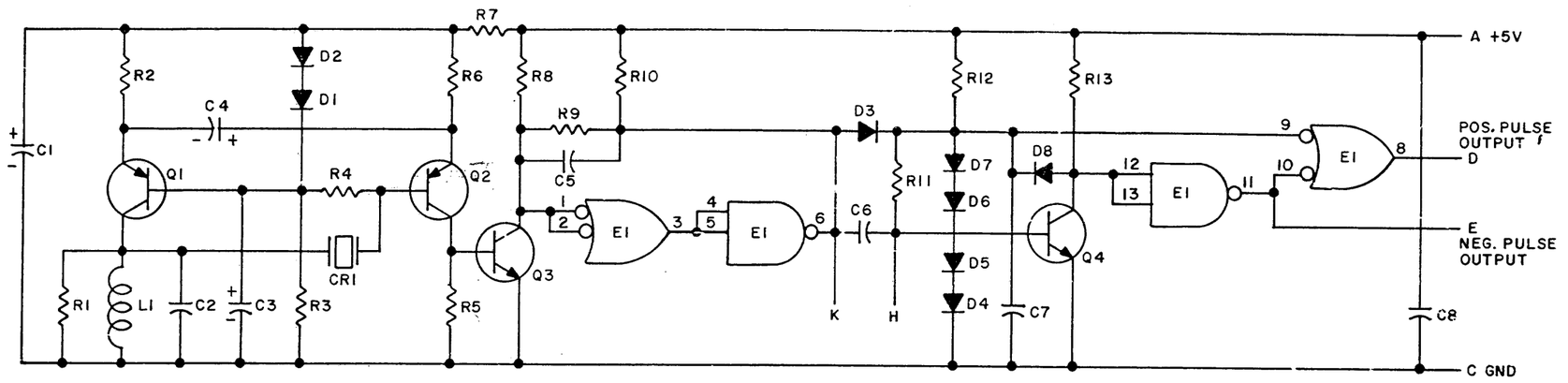

NOTES:
1. PIN 14 ON IC = +5V
2. PIN 7 ON IC = GND
3. FOR VALUES OF C2, L1, CR1 SEE DWG. CHART A-00517-2

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M405-0-0
R11, R12	RES. 390 1/4W 5% CC	1300309
C6	CAP. 120 MMF 100V 5% D.M.	1000018
L1, C2, CR1	SEE NOTE 3	
E1	INTEGRATED CKT. DEC7400N	1905575
Q3, Q4	TRANSISTOR DEC4274	1505302
Q1, Q2	TRANSISTOR DEC4258	1505321
R7	RES. 100 1/4W 10% CC	1300231
R4	RES. 100K 1/4W 10% CC	1300534
R3, R8, R10, R13	RES. 1K 1/4W 5% CC	1300365
R2, R5, R6, R9	RES. 2.2K 1/4W 10% CC	1300418
R1	RES. 10K 1/4W 10% CC	1300481
D3, D8	DIODE D664	1100114
D1, D2, D4-D7	DIODE D662	1100113
C7, C8	CAP. .01 MFD 100V 20% DISC	1001610
C5	CAP. 47 MMF 100V 5% D.M.	1000011
C1, C3, C4	CAP. 39 MFD 10V 10% S.TANT	1000076

PARTS LIST

REVISIONS			
CHK	CHG NO.	REV.	
	00001	B	
	00003	C	

DRN.	M. Fuller	DATE 4-17-68
CHK'D		DATE
ENG.	R. Puckett	DATE
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC4258	2N4256		
DEC4274	NONE		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: CRYSTAL CLOCK M405

SIZE	CODE	NUMBER	REV.
B	CS	M405-0-1	C

PRINTED CIRCUIT REV. B

DEC FORM NO. DRB 102

DIST. PINK

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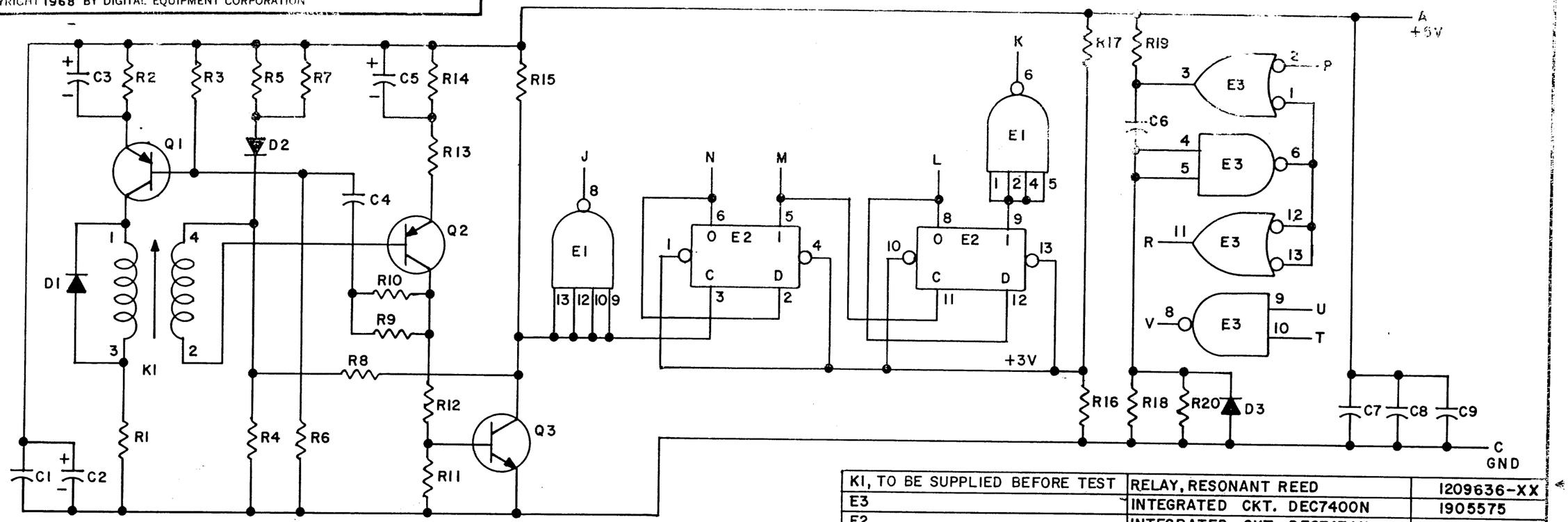

NOTE:
THE VARIANT IN K1 SPECIFIED AS -XX CHANGES ACCORDING TO FREQUENCY.
FOR FREQUENCIES NOT SPECIFIED AS XX VARIANTS, K1 BECOMES PART #1209640-00
FREQUENCY IN Hz FREQUENCY RANGE IS 70-3150 Hz

PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M410-0-0
K1, TO BE SUPPLIED BEFORE TEST	RELAY, RESONANT REED	1209636-XX
E3	INTEGRATED CKT. DEC7400N	1905575
E2	INTEGRATED CKT. DEC7474N	1905547
E1	INTEGRATED CKT. DEC7440N	1905579
Q3	TRANSISTOR DEC3009B-S	1503100
Q1, Q2	TRANSISTOR DEC6534D	1503409
R13	RES. 82 1/4W 10% CC	1300224
R8	RES. 4.7K 1/4W 10% CC	1300448
R4, R5, R7, R11, R12, R17, R18, R19, R20	RES. 470 1/4W 10% CC	1300317
R3, R6, R9, R10	RES. 27K 1/4W 10% CC	1300508
R1, R2, R14, R15, R16	RES. 1.5K 1/4W 5% CC	1300391
D1 – D3	DIODE D664	1100114
C6	CAP. 470MMF 100V 5% D.M.	1000024
C4	CAP. .1MFD 100V 10%	1002342
C2, C3, C5	CAP. 39MFD 10V 10% S.TANT.	1000076
C1, C7, C8, C9	CAP. .01MFD 100V 20% DISC	1001610

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534D	MPS6534		
DEC3009B	2N3009		
D664	1N3606		

REVISIONS				
REV.	A	B	C	
CHG NO.	00001	00002	00003	
CHK				

DRN. M. Haller	DATE 12-2-68	
CHK'D M. Marshall	DATE 12-16-68	
ENG. J. Puckett	DATE 2-5-69	
PROD.	DATE	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: REED CLOCK M410

SIZE	CODE	NUMBER	REV.
B	CS	M410-0-1	C

PRINTED CIRCUIT REV. A

DEC FORM NO. DRB 102

5 DIST. 324 434 435

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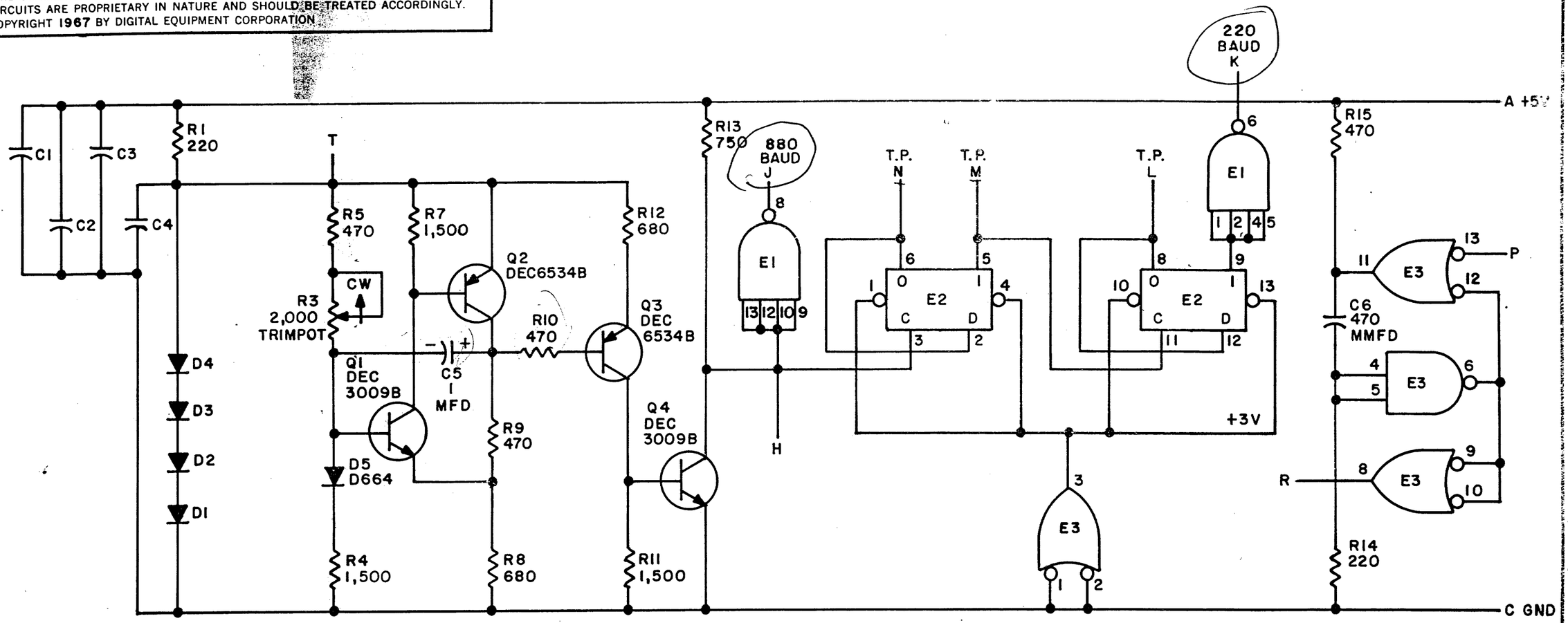

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01 MFD
C5 IS 35V, 10%, TANT.
DIODES ARE D662
E1 IS DEC7440N
E2 IS DEC7474N
E3 IS DEC7400N
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
R3 IS A #275P

REVISIONS	REV.	CHG NO.	CHK

DRN. M. Waller	DATE 4-7-67	
CHK'D	DATE 4/28/67	
ENG.	DATE 4/28/67	
PROD. 1	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC6534B	MPS6534		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: VARIABLE CLOCK M452

SIZE	CODE	NUMBER	REV.
B	CS	M452-0-1	A

PRINTED CIRCUIT REV. A

DEC FORM NO. DRB 102

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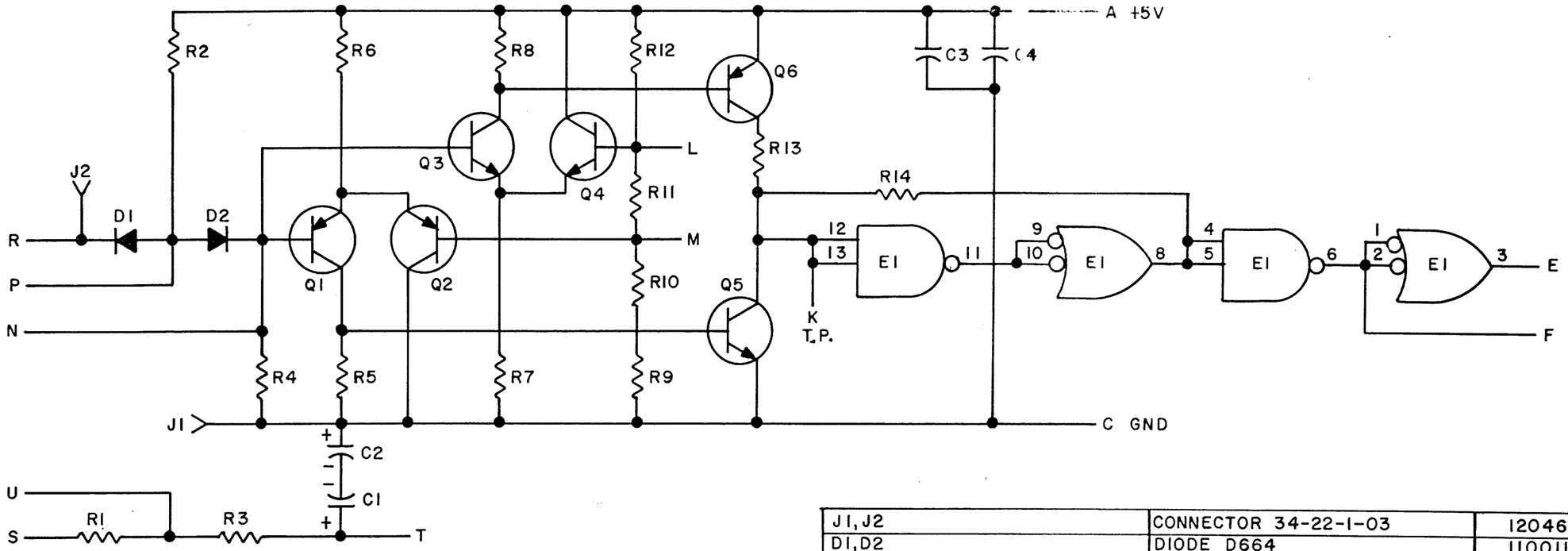

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M501-0-0
J1, J2	CONNECTOR 34-22-1-03	1204699
D1, D2	DIODE D664	1100114
E1	INTEGRATED CKT. DEC7400N	1905575
Q1, Q2, Q6	TRANSISTOR DEC4258	1505321
Q3, Q4, Q5	TRANSISTOR DEC3009B-S	1503100
R13, R14	RES. 180 1/4W 10% CC	1301324
R12	RES. 681 1/8W 1% 100MFP	1302872
R11	RES. 121 1/8W 1% 100MFP	1302957
R10	RES. 215 1/8W 1% 100MFP	1305123
R9	RES. 15 1/4W 10% CC	1301421
R5, R7	RES. 1K 1/4W 5% CC	1300365
R2, R4, R6, R8	RES. 2.7K 1/4W 10% CC	1300428
R1, R3	RES. 150 1/4W 10% CC	1300252
C3, C4	CAP. .01MFD 100V 20% DISC	1001610
C1, C2	CAP. 47MFD 20V 20% S. TANT	1000079

PARTS LIST

REVISIONS			
REV.	CHG NO.	CHK	
A	00001		

DRN.	M. Haller	DATE 4-5-68
CHK'D		DATE 4/21/68
ENG.	J. Ruberts	DATE 4/22/68
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	1N3606		
DEC3009B	2N3009		
DEC4258	2N4258		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: SCHMITT TRIGGER M501

SIZE	CODE	NUMBER	REV.
B	CS	M501-0-1	A

PRINTED CIRCUIT REV. B

DEC FORM NO. DRB 102

DIST. 3/4/434/435 5 PINK

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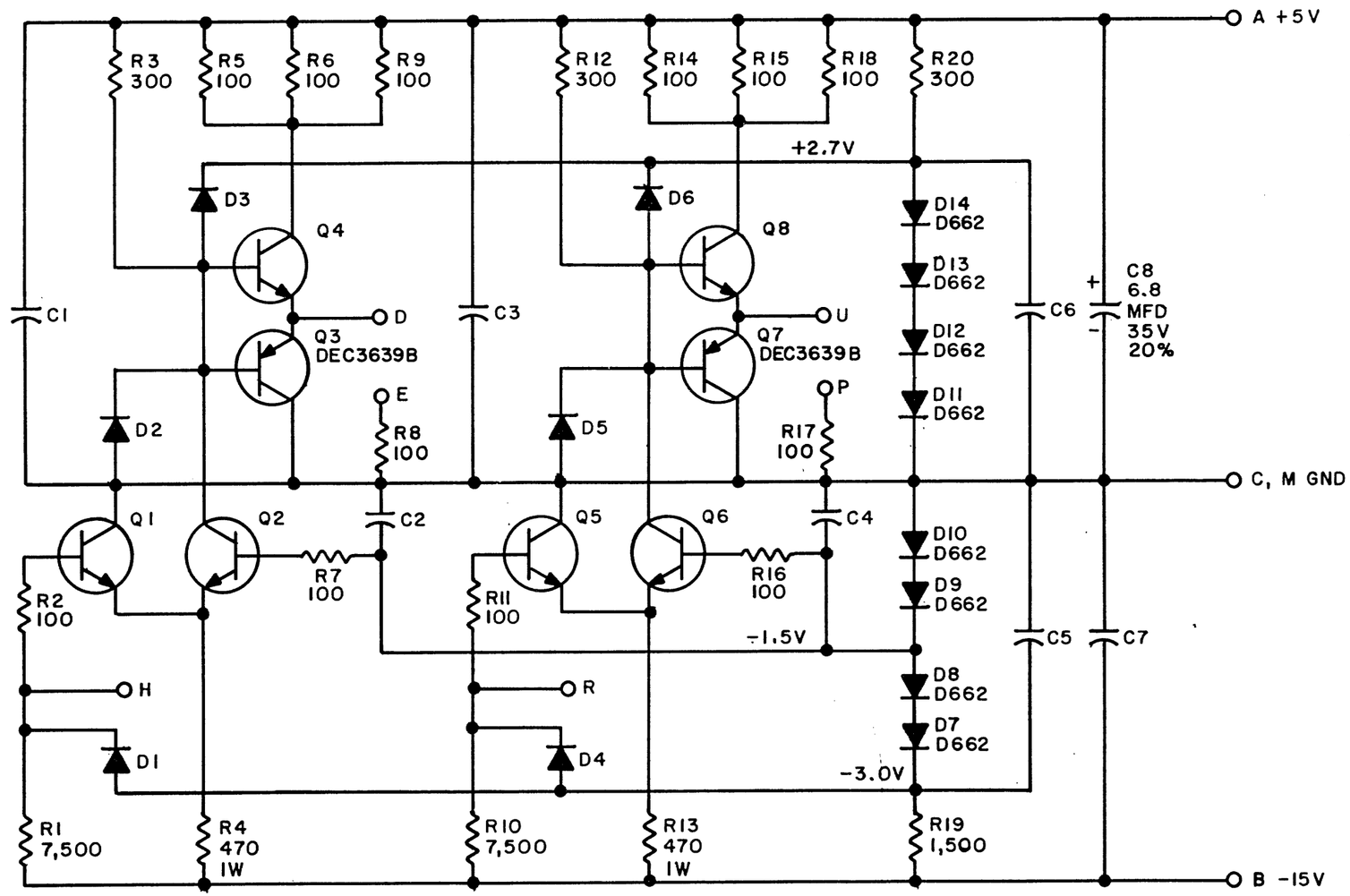

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC3009B
CAPACITORS ARE .01 MFD
DIODES ARE D664
RESISTORS ARE 1/4W, 5%

PARTS LIST A-PL-M502-0-0

REVISIONS	REV.	CHG NO.	CHK
	A	6675	Prof
	B	6784	Prof
	C	100001	J.ORLANDO

DRN. M. Haller	DATE 6-2-67	
CHK'D	DATE 6-2-67	
ENG. A. Ricketts	DATE 6-2-67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE NEGATIVE INPUT CONVERTER M502

SIZE	CODE	NUMBER	REV.
B	CS	M502-0-1	C

PRINTED CIRCUIT REV. C

DIST. 324 434 435

PINK

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	M506-0-1	D

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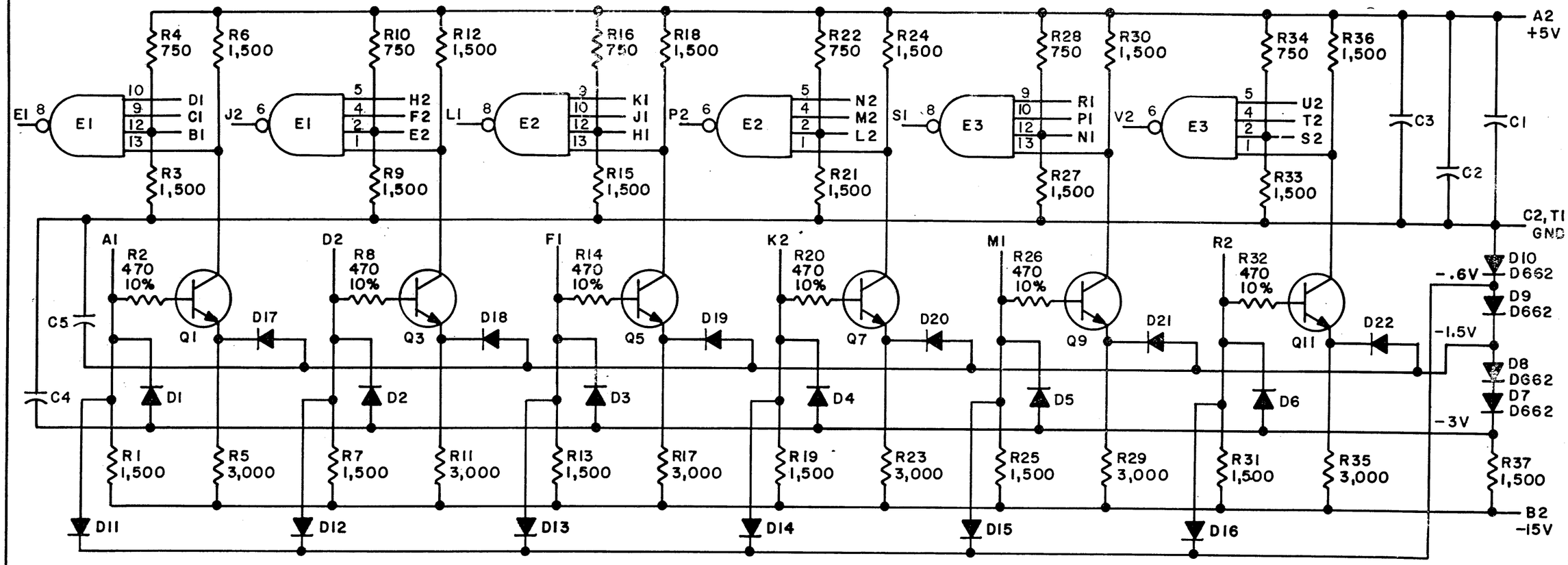

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC3009B
RESISTORS ARE 1/4W, 5%
DIODES ARE D664
CAPACITORS ARE .01 MFD, 100V, 20%
IC'S ARE DEC7420N
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

PARTS LIST A-PL-M506-0-0

REVISIONS	CHK	CHG'NO.	REV.
		6874	A
		00001	B
		00002	D
		00003	

DRN.	M. Waller	DATE 4-14-67
CHK'D	W. Ferguson	DATE 4-28-67
ENG.	P. Boyce	DATE 4/28/67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	IN3606		
D662	IN645		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE NEGATIVE INPUT CONVERTER M506

SIZE	CODE	NUMBER	REV.
B	CS	M506-0-1	D

PRINTED CIRCUIT REV. D

DEC FORM NO.
DRB 102

DIST 324 434 435

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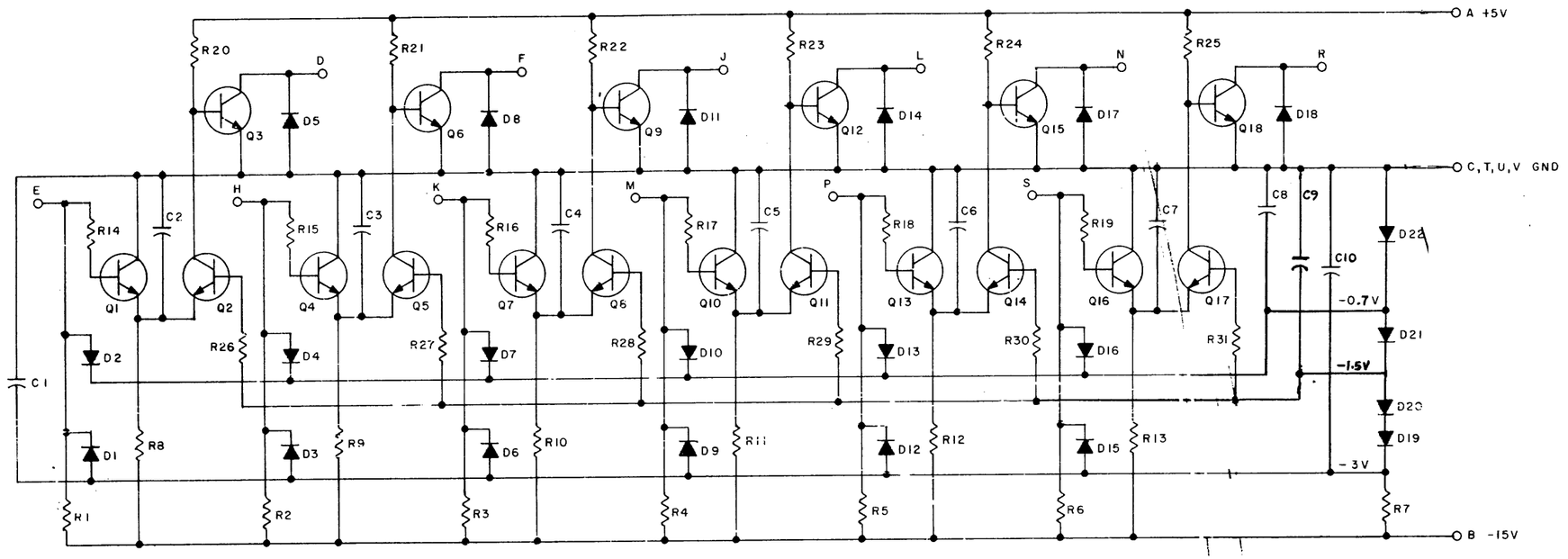

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	
Q1-Q18	TRANSISTOR DEC3009B-S	1503100
R20-R25,	RES. 1K 1/4W 5% CC	1300365
R8-R13	RES. 2.2K 1/4W 5% CC	1300417
R14-R19, R26-R31,	RES. 470 1/4W 5% CC	1300316
R1-R7,	RES. 1.5K 1/4W 5% CC	1300391
C2-C7	CAP. 470 MMF 100V 5% DM	1000024
C1, C8, C10	CAP. .01 MFD 100V 20% DISC	1001610
D19-D22,	DIODE D662	1100113
D1-D18,	DIODE D664	1100114
	PARTS LIST,	A-PL-M507-0-0

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		
DEC2994-18	NONE		

REVISIONS			
CHK	CHG NO	REV	
	00001	A	
	00003	D	
RC	00005	E	

DRN.	M Keller	DATE 8-21-68
CHK'D	W Miller	DATE 8-21-68
ENG	[illegible]	DATE 8-21-68
MROD		DATE

DEC FORM 60
SMC 1107

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: BUS CONVERTER M507

SIZE	CODE	NUMBER	REV
C	CS	M507-0-1	E

PRINTED CIRCUIT REV. B

SIZE C | CODE CS | NUMBER M507-0-1

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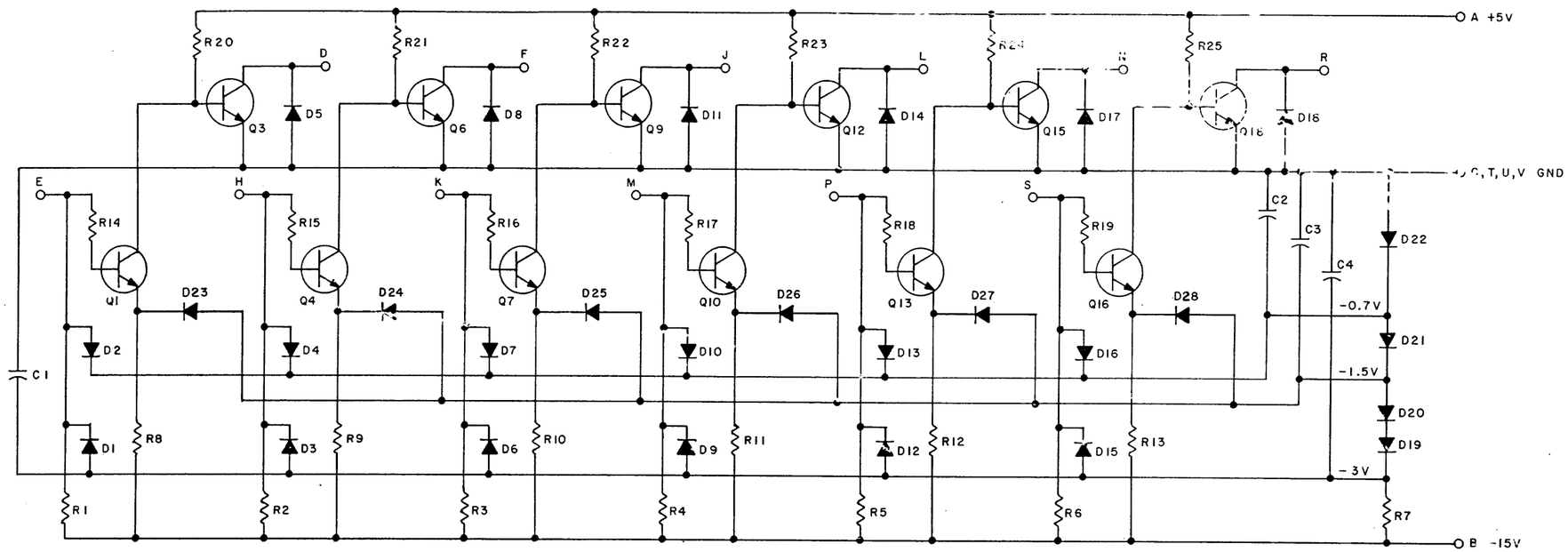

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M508-0-0
D1-D18, D23-D28	DIODE D664	1100114
D19-D22	DIODE D662	1100113
C1-C4	CAP. .01 MFD 100V 20% DISC	1001610
R1-R6	RES. 7.5K 1/4W 5% CC	1301422
R7	RES. 1.5K 1/4W 5% CC	1300391
R14-R19	RES. 470 1/4W 5% CC	1300316
R8-R13	RES. 2.2K 1/4W 5% CC	1300417
R20-R25	RES. 1K 1/4W 5% CC	1300365
Q1,Q3,Q4,Q6,Q7,Q9,Q10,Q12,Q13,	TRANSISTOR DEC3009B-S	1503100
Q15,Q16,Q18		

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D662	IN645		
D664	IN3595		

REVISIONS			
CHK	CHG NO	REV	
	00001	A	

DRN M. Keller 8-23-68
CHK [illegible] DATE 8-23-68
ENG [illegible] DATE [illegible]
PROD DATE

DEC FORM NO
DRC 102

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: BUS CONVERTER M508

SIZE	CODE	NUMBER	REV.
C	CS	M508-0-1	A

PRINTED CIRCUIT REV. C

SIZE C | CODE CS | NUMBER M508-0-1 | REV. A

IND 5

07

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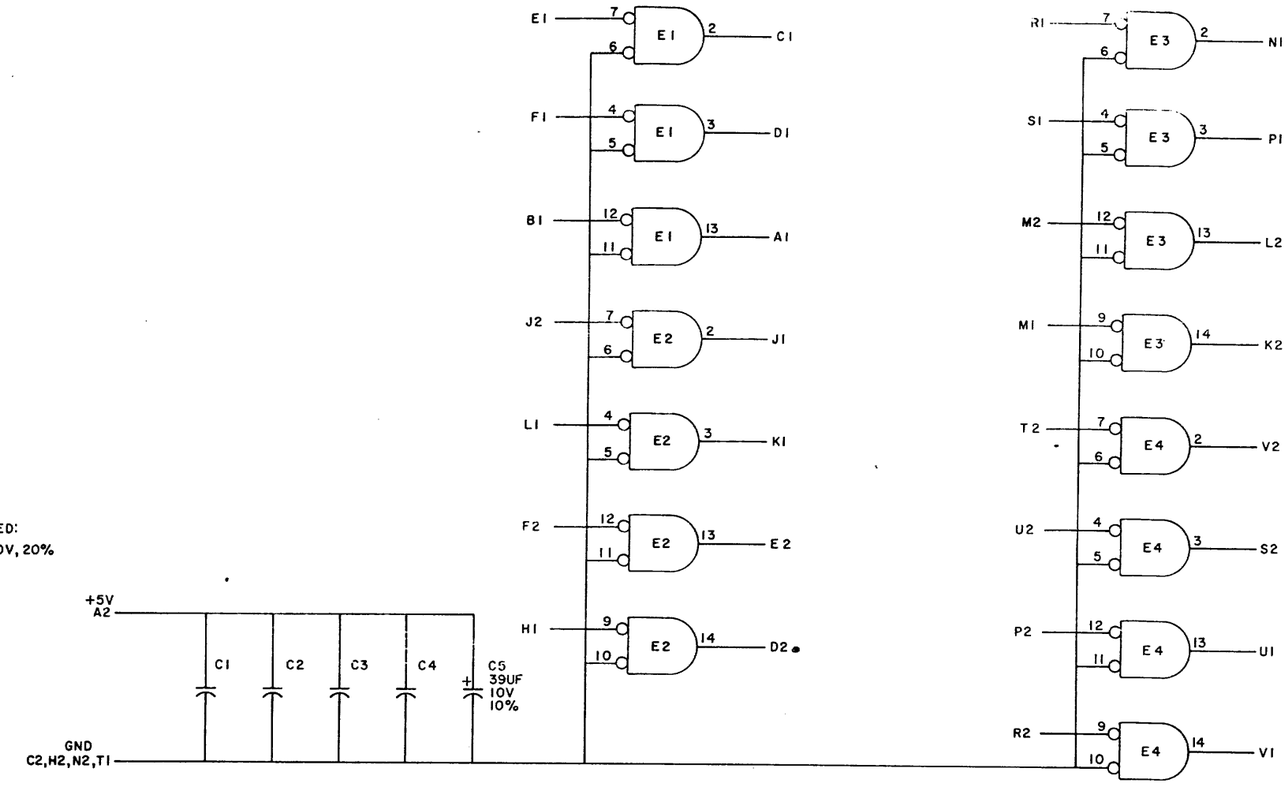
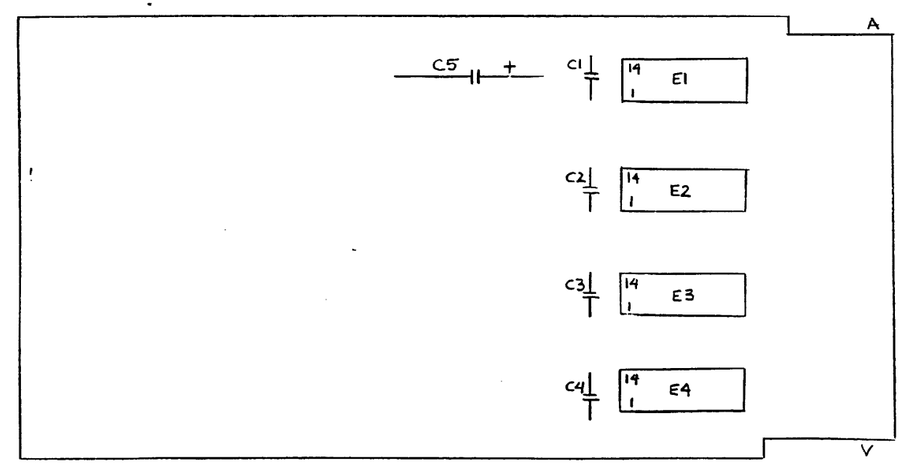
UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01UF, 100V, 20%
IC'S ARE DEC 380A
PIN 1= GND ON EACH IC
PIN 8= +5V





ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
		PARTS LIST	
9	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
8	9006732	EYELET #GS 4-7	2
7	1909485	I.C. DEC 380A	4
6	1001610	CAP. .01UF, 100V, 20% DISC	4
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009338	ETCHED CIRCUIT BOARD	1
3	B-MH-M511-0-6	MODULE ECO HISTORY	
2	C-AH-M511-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M511-0-4	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

REVISIONS	REV
CHK CHG NO	

DRN	S. COOPER	DATE 12/14/70
CHK'D		DATE 2-4-71
ENG.		DATE
PROD		DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE POSITIVE BUS RECEIVER M511

SIZE C | CODE CS | NUMBER M511-0-1 | REV A

PRINTED CIRCUIT REV B

SIZE C | CODE CS | NUMBER M511-0-1 | REV A

DEC FORM NO
DRC 102

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+5V, AA2, BA2

R2 330 · R3 330 · Q2 · BE1 B SET R1

E2 · E2 · SET FUNCTION L ADI

R8 680 · R53 5.6K · C7 10 pf · E3 DEC9601 · R73 10K +5V

8 SET PULSE H BK2 · 6 SET PULSE L BJ2

D2

MATCH 4 H ALI · LOCAL L AHI · SW 4 AMI

R11 · R12 1.2K · R13 10K · Q4 · Q3 · BE2 B SEL 0 R10 · C4 · E4 · E1

C8 · R25 10K · E2 · 7 CH H AJI

R15 · R16 12K · R17 10K · Q5 · Q30 · BM2 B SEL 1 R14 · C5 · E4 · MATCH 2 H ARI

SW 2 ASI

R30 BK2

R19 · R20 1.2K · R21 10K · Q7 · Q6 · BK1 B SEL 2 R18 · C6 · E4 · MATCH 1 H ANI

SW 1 API

R34 · DEN 8L BMI

D3 · D4 · D8

R26 560 · R27 560 · R38 · E1 · SELECT REMOTE L AFI · E5 · R37 330 · Q12 · BV1 B STOP R36

R31 330 · Q11 · BL2 B DENS R32

R35 330 · Q10 · BL1 B DEN 5 R33

BIT CLOCK

D5 · BCT L · R40 3K · E5 · R43 1.8K · Q19 DEC65348 · MUX OUT L AE

D6 · END POINT L · R41 3K · E5 · R44 8.2K · Q18 DEC65348 · B EOT BH1

D7 · REWIND STATUS L · R42 3K · E5 · R49 8.2K · Q21 DEC65348 · R53 1.8K · R54 8.2K · Q13 DEC65348 · B 7 CH AVI

E2 · CLEAR FUNCTION L AH2 · R29 1.8K

SELECT REMOTE H AJ2

Q16 · C15 56 PF 5% · Q17 · R47 1.2K · R52 1.2K · R FWD H BJ1

R50 · Q19 · C17 56PF 5% · R51 · Q20 · C18 56PF 5% · R48 · R FWD H BF1

R54 · Q21 · C19 56PF 5% · R55 · Q23 · C20 56PF 5% · R39 10K · R WRE H BN1

R59 39Ω · R60 56 · Q24 · V CLAMP BJ1 · R61 560 · R62 100 · C9 1uf 35V

R63 1.2K · R64 1.2K · WRITE STROBE H BT2 · Q26 · R65 100 · Q25 · R66 2.2K · BN2 BREC

D9 · D10 D662 · R68 1K · C STROBE BS2 · Q27

R70 1.2K · R71 220 · LRCC STROBE H BR2 · Q29 · Q28 · R67 12K

BP2 GLR CC · R69 2.2K

C1 39uf 10V 10% · D1 IN746A · Q31 DEC1008 · R4 220 · C2 39uf 10V 10% · Q1 DEC2904 · R5 2W 120 · R72 640 · R6 2W 68

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 2.7K, 1/4W, 5%
CAPACITORS ARE .01uf, 100V, 20%
TRANSISTORS ARE DEC30098
DIODES ARE D003
E1 IS A DEC7440
E2 IS A DEC7400
E3 IS A DEC9601
E4 IS A DEC7486
E5 IS A DEC384
ON E5 PIN 1 = GND, PIN 8 = +5V
ON ALL OTHER IC'S PIN 7 = GND, PIN 14 = +5V

-2.4V, BD2
GND, AC2, AT1, BC2, BT1
-3.3V, BR1
-15V, AB2, BB2

+5V · C10 · C11 · C12 · C13 · C14 · GND

REVISIONS

CHR	CHG NO	REV
	00001	F
	00002	H
	00003	J
	1500004	K

DRN jeanne french DATE 8/11/70
CHKD DATE
ENG DATE
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC2904	2N1132		
DEC65348	MPS6534		
DEC30098	2N3909		
D003	1N994		
IN746A	5AVE		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE BUS TRANSCIEVER M514

SIZE D | CODE CS | NUMBER M514-0-1 | REV K

PRINTED CIRCUIT REV

DEC FORM NO. DRB 118

SIZE	CODE	NUMBER	REV.
B	CS	M516-0-1	

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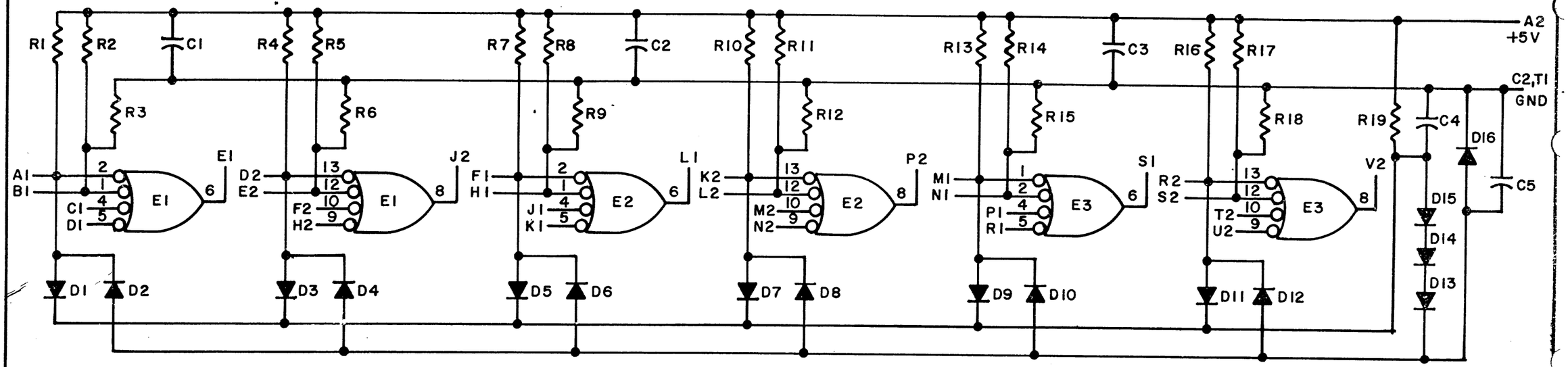

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M516-0-0
C1 - C5	CAP. .01MFD 100V 20% DISC	1001610
D1 - D12	DIODE D664	1100114
D13 - D16	DIODE D662	1100113
R2,R5,R8,R11,R14,R17	RES. 750 1/4W 5% CC	1301401
R1,R4,R7,R10,R13,R16	RES. 220 1/4W 5% CC	1300271
R3,R6,R9,R12,R15,R18	RES. 1.5K 1/4W 5% CC	1300391
R19	RES. 330 1/4W 5% CC	1300295
E1-E3	INTEGRATED CKT. DEC7420N	1905577

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

REVISIONS	REV.	CHG NO.	CHK

DRN. M. Walter	DATE 6-20-68	
CHK'D M. Gorinello	DATE 6-20-68	
ENG. [illegible]	DATE 7/16/68	
PROD.	DATE	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: POSITIVE BUS RECEIVER M516

SIZE	CODE	NUMBER	REV.
B	CS	M516-0-1	

PRINTED CIRCUIT REV. A

DIST. 324 434 437

PINK

DEC FORM NO.
DRB 102

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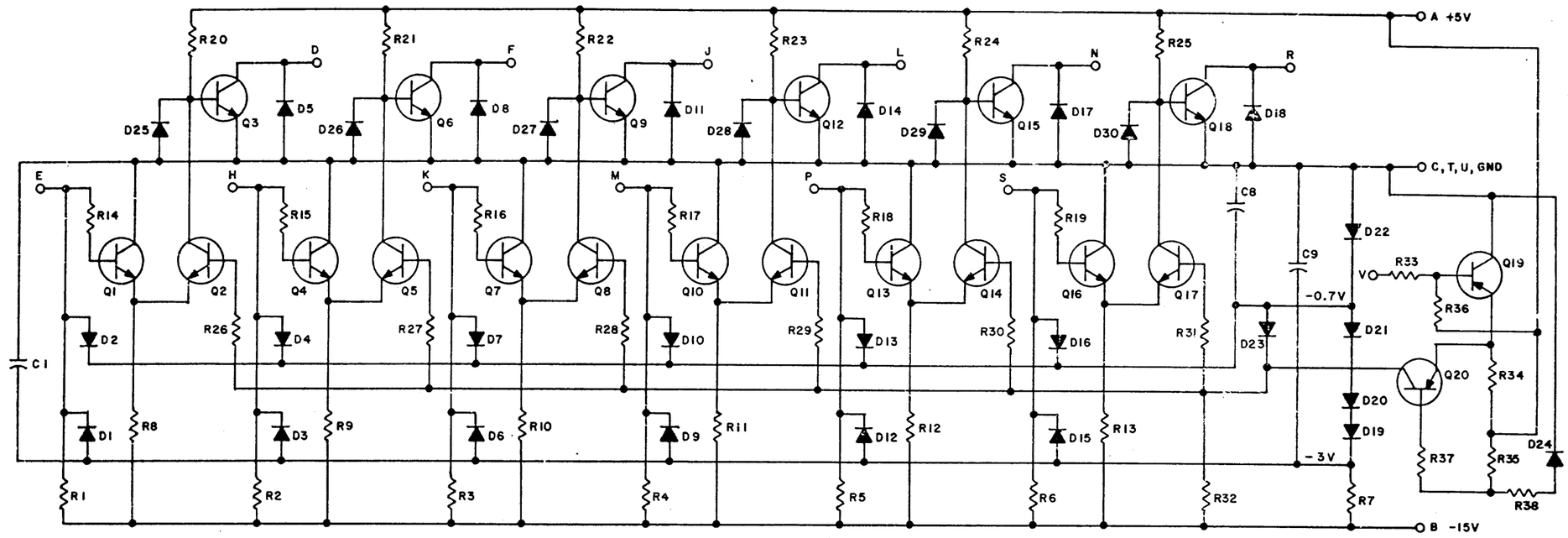

R34	RES. 100 1/4W 5% CC	1300229
R36	RES. 10K 1/4W 10% CC	1300481
R38	RES. 220 1/4W 10% CC	1300275
Q19 Q20	TRANSISTOR DEC2894-18	1503097
Q1-Q18	TRANSISTOR DEC30098-S	1503100
R20-R25, R35, R37	RES. 1K 1/4W 5% CC	1300365
R8-R13	RES. 2.2K 1/4W 5% CC	1300417
R14-R19, R26-R31, R33	RES. 470 1/4W 5% CC	1300316
R1-R7, R32	RES. 1.5K 1/4W 5% CC	1300391
C1, C8, C9	CAP. .01 MFD 100V 20% DISC	1001610
D19-D22, D24	DIODE D662	1100113
D1-D18, D23, D25-D30	DIODE D664	1100114
	PARTS LIST	A-PL-M517-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REVISIONS		
CHK	CHG NO.	REV.
JW	00001	A

DRN	J. Campo	DATE 5/7/70
CHK'D	JW	DATE 5/7/70
ENG		DATE 6/1/70
CONTROL		DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC30098	2N3009		
D662	1N645		
D664	1N3606		
DEC2894-18	NONE		

DIGITAL EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: BUS CONVERTER M517

SIZE CODE: C | CS | NUMBER: M517-0-1 | REV: A

PRINTED CIRCUIT REV

DEC FORM NO.

DIST 32 M MINUS

SIZE	CODE	NUMBER	REV.
C	CS	M517-0-1	A

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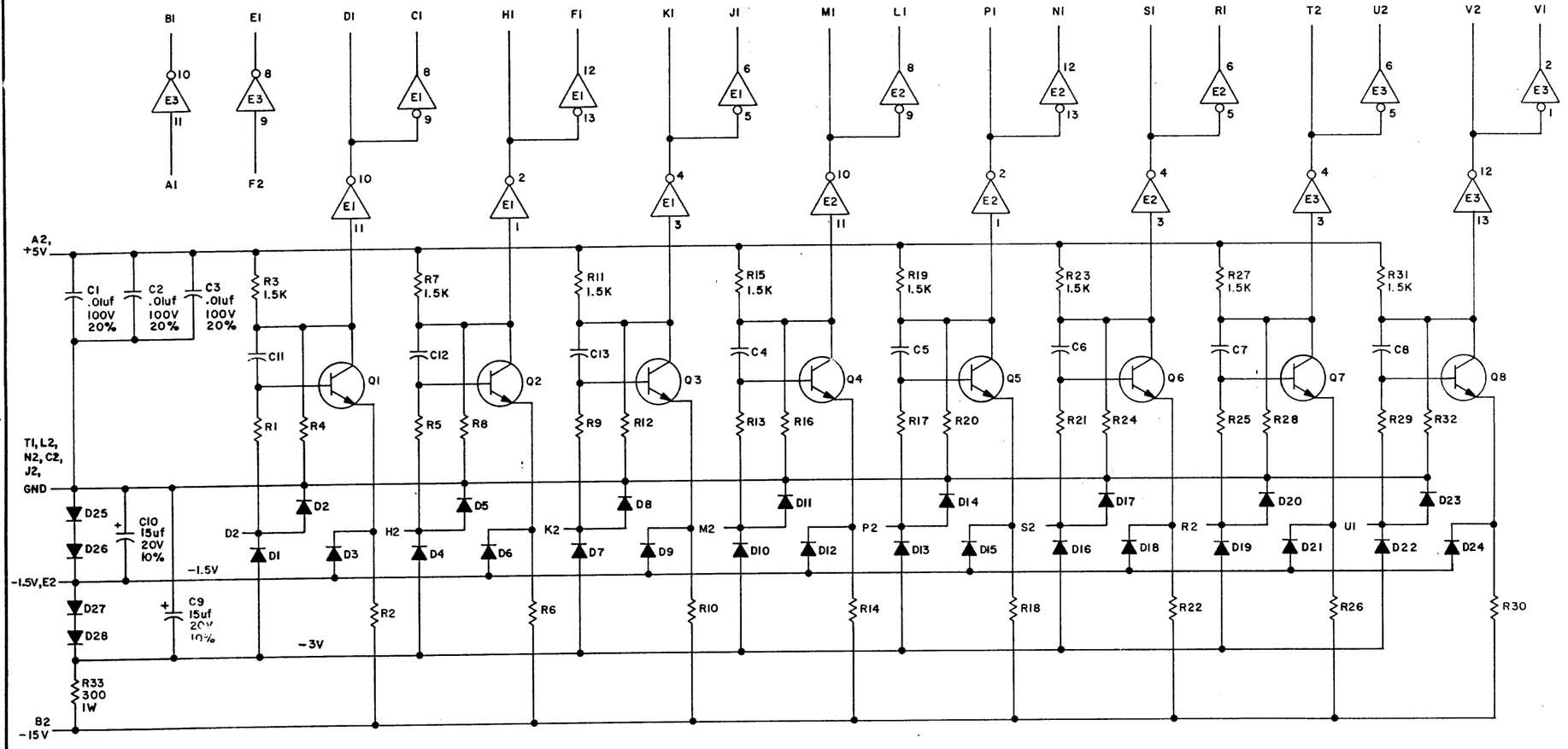

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 3K, 1/4W, 5%
DIODES ARE D664
CAPACITORS ARE 150 pf, 100V, 5%
TRANSISTORS ARE DEC3009B
IC'S ARE DEC7404

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	IN3606		

REVISIONS			
CHK	CHG NO.	REV.	
	00001	A	

DRN. Nancy Moore 3/5/70
CHK'D. R. Silverman
ENG. L. Lutz 6/8/70
PROD. D. Wall 6/9/70

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE NEGATIVE BUS CONVERTER

SIZE C | CODE CS | NUMBER M531-0-1 | REV. A

PRINTED CIRCUIT REV. A

SIZE C | CODE CS | NUMBER M531-0-1 | REV. A

DEC FORM NO. DRC 102

Dist. 321 434 435 5 rk

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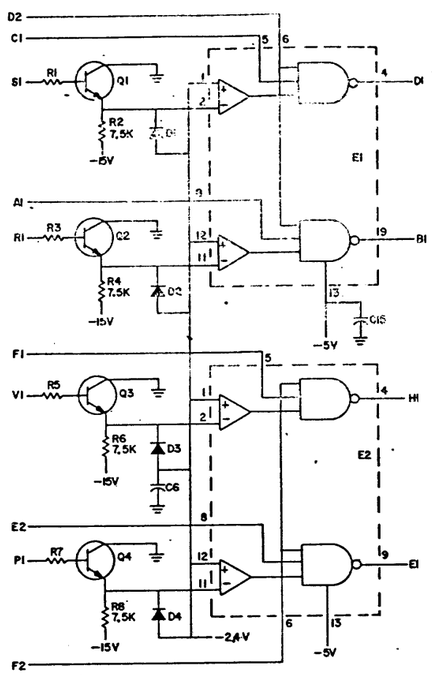
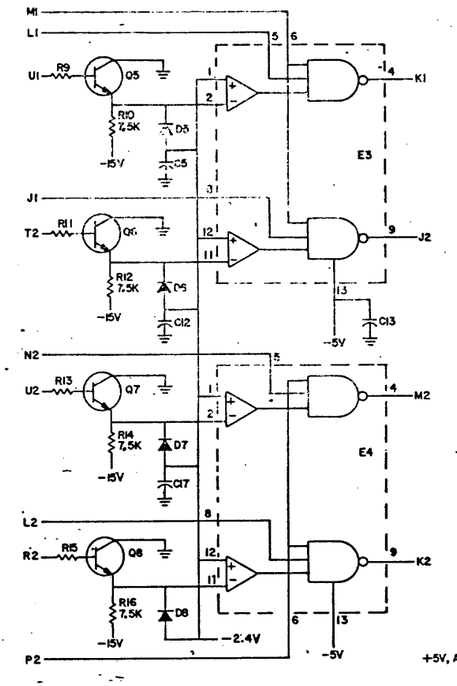
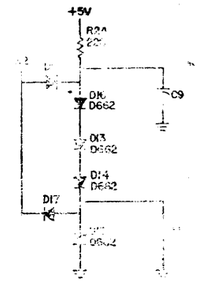
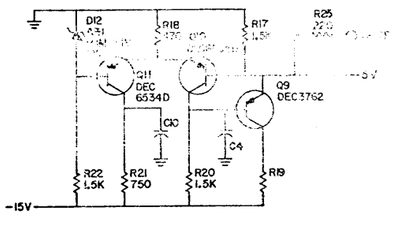
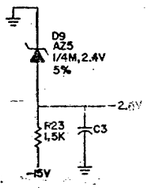
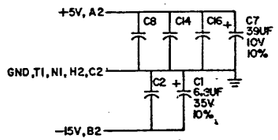




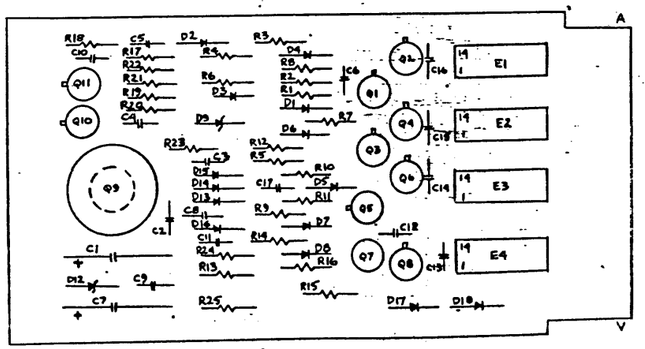








UNLESS OTHERWISE INDICATED:
TRANSISTORS = DEC3009B
DIODES = D664
RESISTORS = 100, 1/4W, 5%
CAPACITORS = .01UF, 100V, 20%
ICS = DEC75107
PIN 7 = GND ON ALL IC'S
PIN 14 = +5V



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
25	1101938	DIODE AZ5 1/4M 2.4V 5%	1
24	9008268	WAKEFIELD THERMAL COMPOUND	A/R
23	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
22	9006732	EYELET #GS 4-7	2
21	1910268	I.C. DEC 75107	4
20	1509649	TRANSISTOR DEC 3762	1
19	1503409-00	TRANSISTOR DEC 6534D	2
18	1503100	TRANSISTOR DEC 3009B	8
17	1301422	RES. 7.5K, 1/4W, 5%	8
16	1301401	RES. 750, 1/4W, 5%	1
15	1300391	RES. 1.5K, 1/4W, 5%	4
14	1300316	RES. 470, 1/4W, 5%	1
13	1300271	RES. 220, 1/4W, 5%	2
12	1300229	RES. 100, 1/4W, 5%	9
11	1202313	HEAT SINK	1
10	1105871	DIODE AZ1, 1/4W, 5.1V, 1%	1
9	1100114	DIODE D664	10
8	1100113	DIODE D662	4
7	1605306	CAP. 6.8UF, 35V, 10% S. TANT	1
6	1001610	CAP. .01UF, 100V, 20% DISC	15
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009353	ETCHED CIRCUIT BOARD	1
3	E-KK-M564-0-6	MODULE ECO HISTORY	
2	C-AA-M564-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CC-M564-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS			
ITEM	CHG NO	REV	
24	00001	E	
24	00002	F	

DRN	RANDY HOWE	DATE 7/15/70
CHKD		DATE 7-21-71
ENG		DATE 7-22-71
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3569	DEC6534D	MPS6534
D664	1N3606	D662	1N648
DEC3762		A21	

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE -3V I.O. BUS RECEIVER M564

SIZE	CODE	NUMBER	REV.
D	CS	M564-0-1	F

PRINTED CIRCUIT REV

DEC FORM NO. 960 116

07

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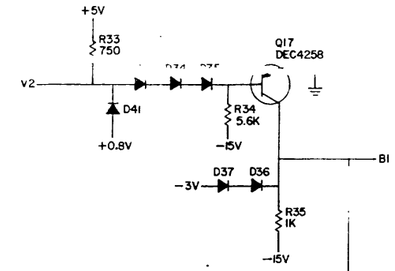
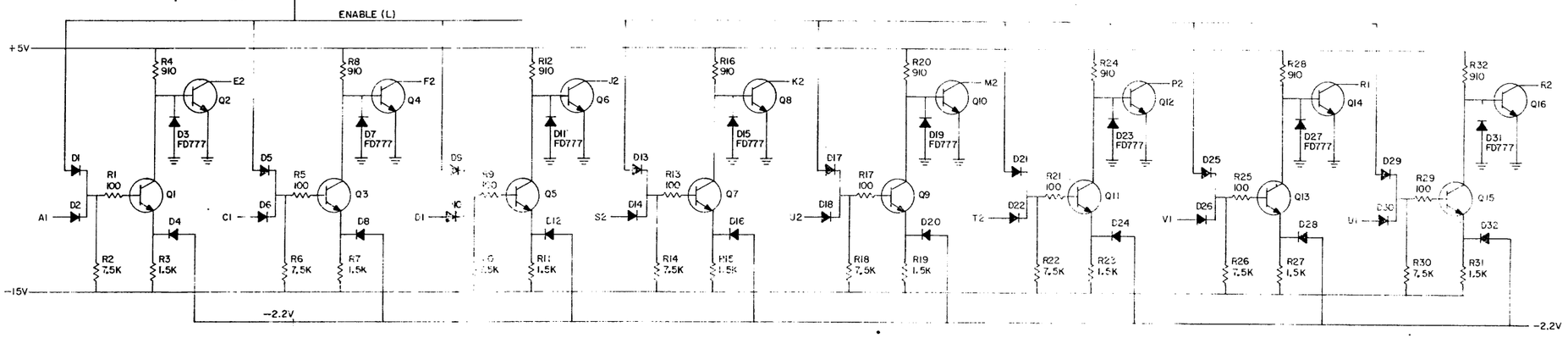
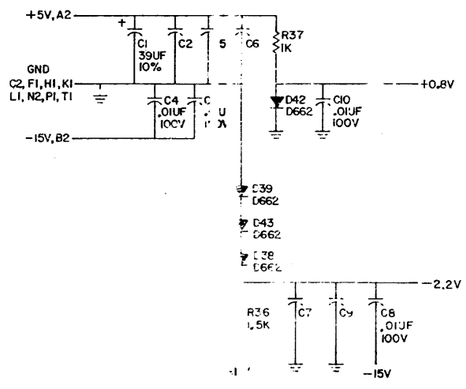
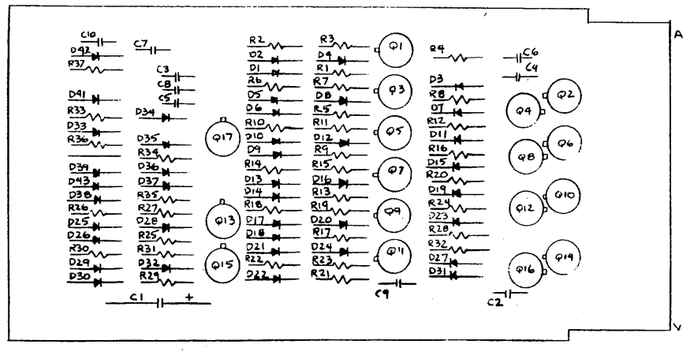






UNLESS OTHERWISE INDICATED:

CAPACITORS = .047UF, 16V, +15-20%
DIODES = D664
RESISTORS = 1/4W, 5%
TRANSISTORS = DEC4274



21	1305374	RES. 910 ¼W 5%	8
20	1301874	RES. 5.6K ¼W 5%	1
19	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
18	9006732	EYELET # GS 4-7	2
17	1505321	TRANSISTOR DEC 4258	1
16	1505302	TRANSISTOR DEC 4274	16
15	1301422	RES. 7.5K, ¼W, 5%	8
14	1301401	RES. 750, ¼W, 5%	1
13	1300391	RES. 1.5K, ¼W, 5%	9
12	1300365	RES. 1K, ¼W, 5%	2
11	1300229	RES. 100, ¼W, 5%	
10	1103041	DIODE FD777	
9	1100114	DIODE D664	30
8	1100113	DIODE D662	4
7	1009678	CAP. .047UF, 16V, 15-20%	5
6	1001610	CAP. .01UF, 100V, 20% DISC	4
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009324	ETCHED CIRCUIT BOARD	1
3	B-MH-M565-0-6	MODULE ECO HISTORY	
2	B-MH-M565-0-5	ASSY/DRILLING HOLE LAYOUT	
1	B-XC-M565-0-4	X-Y COORDINATE HOLE LOCATION	
ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	

REV D
SIZE D CODE CS M565-0-1

REVISIONS			
CHG	CHG NO	REV	
ECO	10001	C	
ECO	10021	D	
6	10022	D	

P. SULLIVAN

DRN	RANDY MARR	DATE 12/9/70
CHK'D		DATE
ENG		DATE
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC4274	2N4274	D664	1N3606
D662	1N645	DEC4258	2N4258
FD777	SAME		

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE MEMORY BUS RECEIVER LOGIC

SIZE	CODE	NUMBER	REV
D	CS	M565-0-...	D

PRINTED CIRCUIT REV C

DEC FORM NO. 240 116

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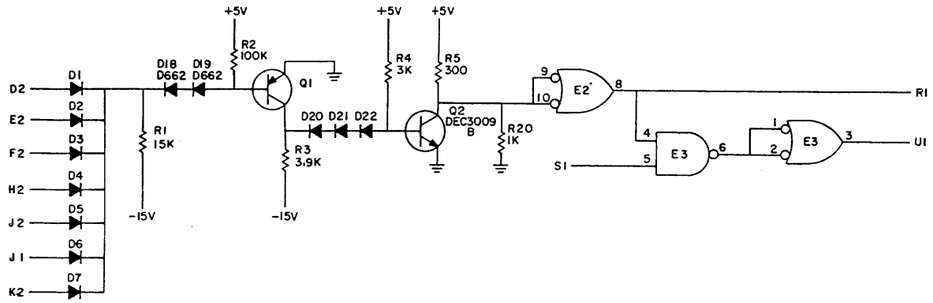
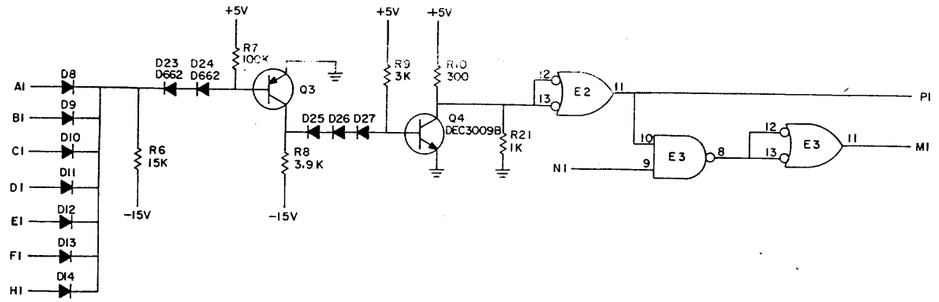
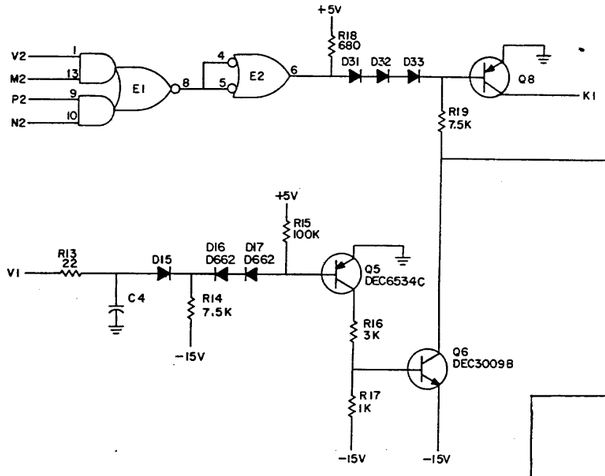
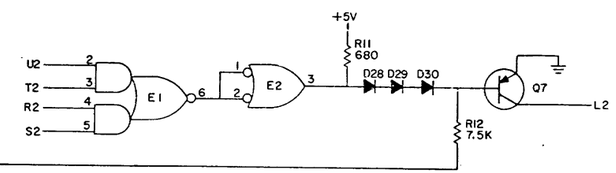
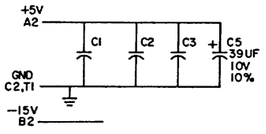


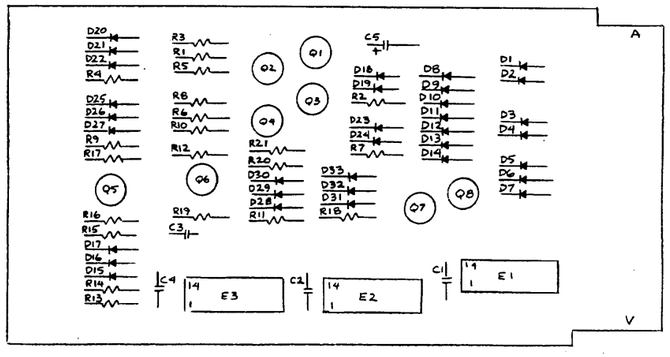






UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
TRANSISTORS ARE DEC4258
DIODES ARE D664
E1 IS DEC1074H50
E2, E3 ARE DEC1074H00
PIN 7 = GND ON EACH IC
PIN 14 = +5V ON EACH IC





24	9009337-06	HANDLE, FLIP CHIP - MAGENTA	1
23	9006732	EYELETS	2
22	1910512	I.C. DEC1074H50	1
21	1910462	I.C. DEC1074H00	2
20	1505321	TRANSISTOR DEC 4258	6
19	1503100	TRANSISTOR DEC 3009B	3
18	1508409-02	TRANSISTOR DEC6534C	1
17	1302466	RES. 100K, ¼W, 5%	3
16	1301969	RES. 22, ¼W, 5%	1
15	1301425	RES. 300, ¼W, 5%	2
14	1301424	RES. 680, ¼W, 5%	2
13	1301422	RES. 7.5K, ¼W, 5%	3
12	1300496	RES. 15K, ¼W, 5%	2
11	1300444	RES. 3.9K, ¼W, 5%	2
10	1300432	RES. 3K, ¼W, 5%	3
9	1300365	RES. 1K, ¼W, 5%	3
8	1100114	DIODE D664	27
7	1100113	DIODE D662	6
6	1001610	CAP. .01UF, 100V, 20% DISC	4
5	1000076	CAP. 39UF, 10V, 10% [illegible]	1
4	9009379	PRINTED CIRCUIT BOARD	1
3	[illegible]	MODULE M592 (M7009)	
	[illegible]	ASSY/DRILLING DIAGRAM	
	[illegible]	X-Y COORDINATE PCB LOCATION	
[illegible]	[illegible]	DESCRIPTION	QTY.
		PARTS LIST	

REVISIONS			
DWR	CHKD	REV	
0	10/27/71	C	W. WALTON

DRN J. Cooper DATE 11/4/71
CHKD DATE
ENG DATE
PROG DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009	D664	IN1908
DEC4258	2N4258	D662	IN645

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE I.O DEVICE SELECT M592

SIZE	CODE	NUMBER	REV.
D	CS	M592-0-1	D

PRINTED CIRCUIT REV. C

DEC FORM NO. 880 118

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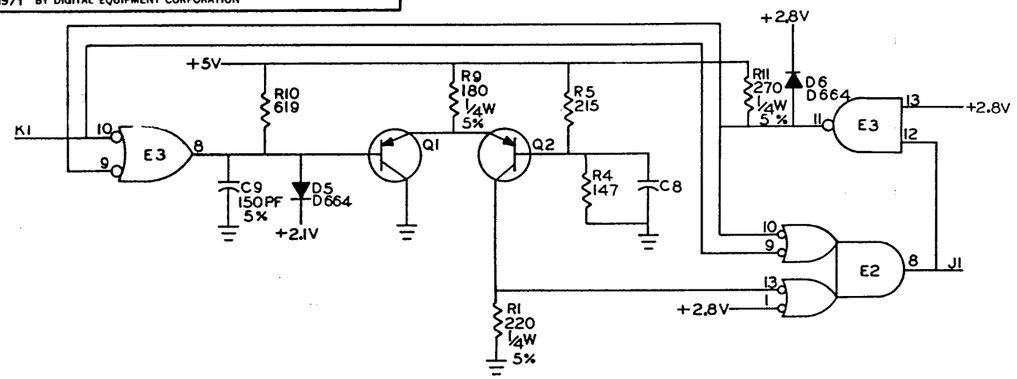
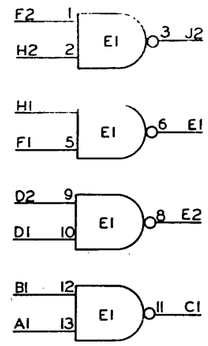
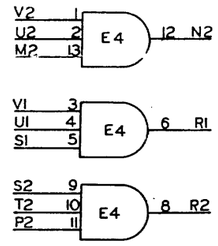
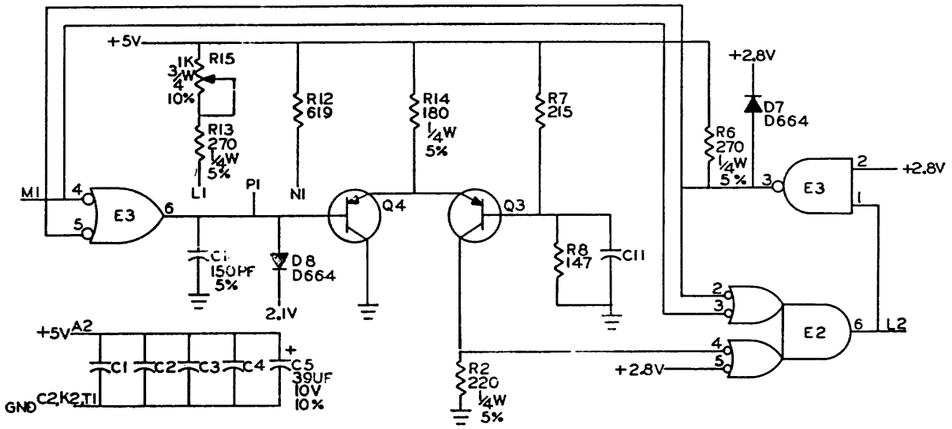
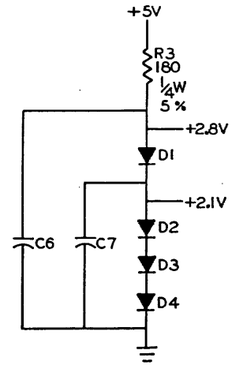


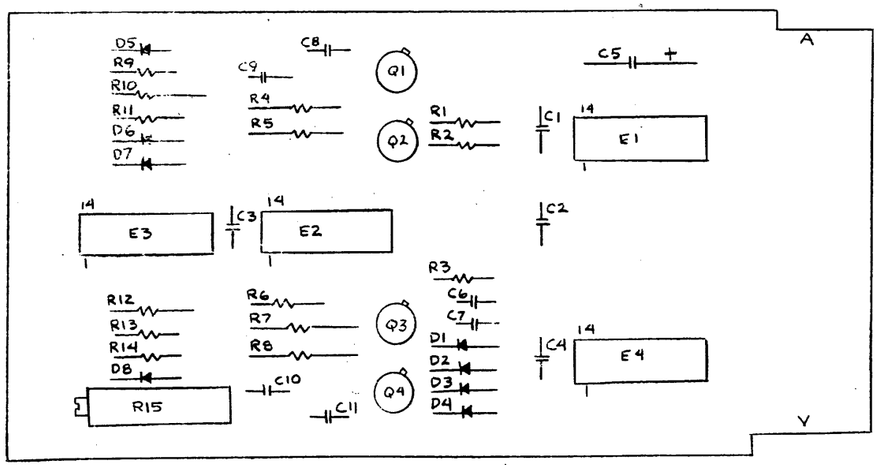








UNLESS OTHERWISE INDICATED
RESISTORS ARE 1/8W, 1% MF
CAPACITORS ARE .01UF, 100V, 20%
DIODES ARE DEC662
PIN 14 = +5V ON ALL IC'S
PIN 7 = GND
DEC1074H00 = E1
DEC1074H50 = E2
DEC74H011 = E3
DEC1074H11 = E4
Q1,Q2,Q3,Q4 = DEC4258



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
23	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
22	9006732	EYELET #GS4-7	2
21	1909849	I.C. DEC 74H011	1
20	1910465	I.C. DEC1074H11	1
19	1910512	I.C. DEC1074H50	1
18	1910462	I.C. DEC1074H00	1
17	1505321	TRANSISTOR DEC 4258	4
16	1100114	DIODE D664	4
15	1100113	DIODE D662	4
14	1309143-07	RES. 1K 3/4W 10% HELI POT	1
13	1305126	RES. 619 1/8W 1% MF	2
12	1305123	RES. 215 1/8W 1% MF	2
11	1302874	RES. 147 1/8W 1% MF	2
10	1301972	RES. 270 1/4W 5%	3
9	1301322	RES. 180 1/4W 5%	3
8	1300271	RES. 220 1/4W 5%	2
7	1001610	CAP. .01UF 100V 20%	8
6	1000076	CAP. 39UF 10V 10%	1
5	1000019	CAP. 150PF 100V 5% DM	2
4	5009360	ETCHED CIRCUIT BOARD	1
3	B-MH-M603-0-6	MODULE ECO HISTORY	
2	C-AH-M603-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M603-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS			
CHK	CHG NO	REV.	
	00001	B	

DRN. RJ DOUCETTE	DATE 3-3-71	
CHK'D	DATE 3-4-71	
ENG	DATE 3-4-71	
PROD	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	1N3605		
D662	1N645		
DEC 4258	2N4258		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE P.A. MODULE

SIZE	CODE	NUMBER	REV.
C	CS	M603-0-1	B

PRINTED CIRCUIT REV B

SIZE	CODE	NUMBER	REV.
C	CS	M603-0-1	B

DEC FORM NO. DRC 102

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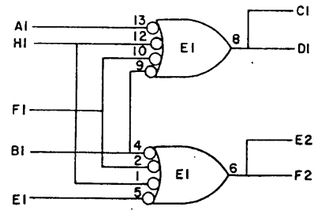
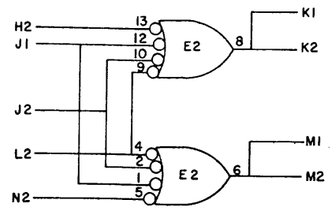
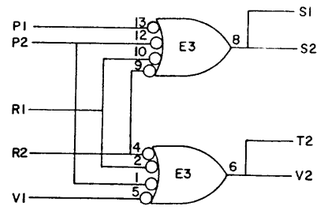
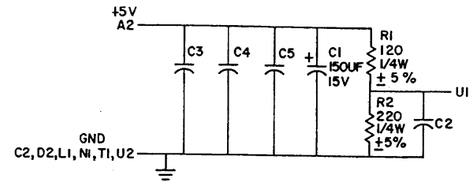
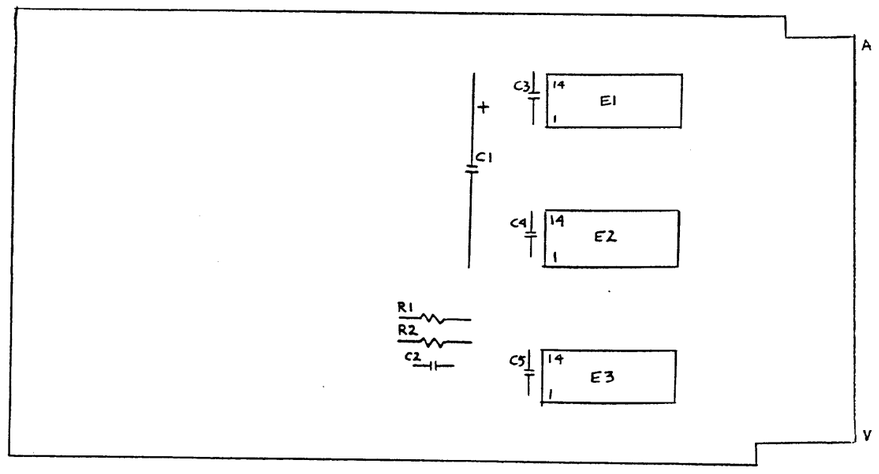








UNLESS OTHERWISE INDICATED:
CAPACITORS = .01UF, 100V, ±20%
IC'S = DEC 1074H40
PIN 7 = GND
PIN 14 = +5V ON ALL IC'S



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1910469	I.C. DEC1074H40	3
8	1300271	RES. 220, ¼W, 5%	1
7	1300247	RES. 120, ¼W, 5%	1
6	1001610	CAP. .01UF, 100V, 20% DISC	4
5	1000084	CAP. 150UF, 15V, 20% [illegible]	1
4	5009289	[illegible] CIRCUIT BOARD	1
3	B-MH-M612-0-6	MODULE ECO HISTORY	
2	C-AH-M612-0-5	ASSY/DRILL HOLE LAYOUT	
1	K-CO-M612-0-4	[illegible] PLATE HOLE LOCATION	

REVISIONS			
CHK	CHG NO	REV	
E.A.O	00001	A	
JA	00002	B	

DRN J. Cooper	DATE 12/1/70	
CHKD [illegible]	DATE [illegible]	
ENG	DATE	
PROD	DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: POWER DRIVER MODULE M612

SIZE	CODE	NUMBER	REV
C	CS	M612-0-1	B

PRINTED CIRCUIT REF B

SIZE C CS M612-0-1 REV. B

DEC FORM NG
DRC 102

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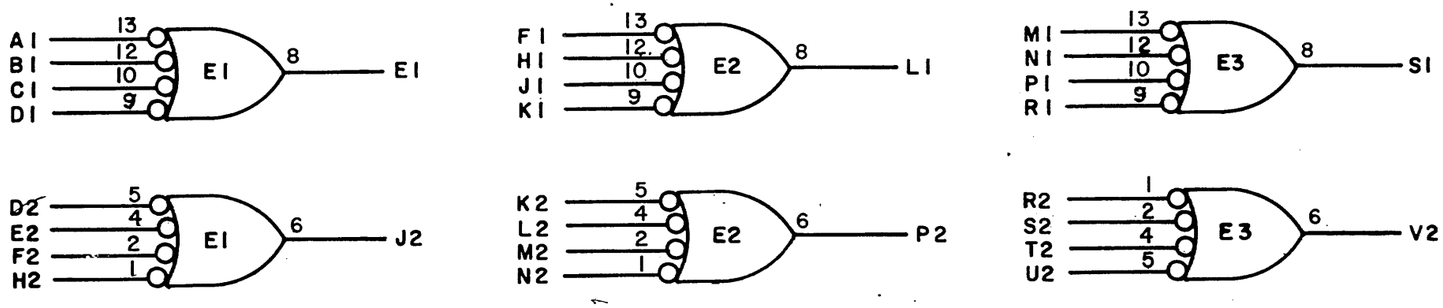
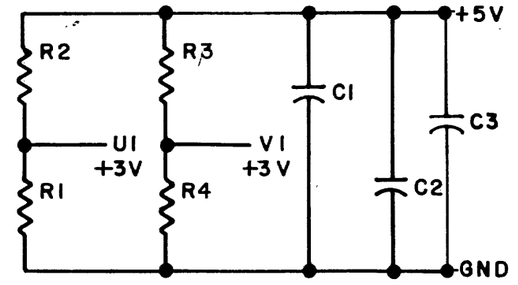
+5V ——— A 2
NOT USED -15V ——— B2
GND ——— C2, T1





NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M617-0-0
R2 & R3	RES 330 1/4W 10% CC	1300293
R1 & R4	RES. 750 1/4W 5% CC	1301401
C1 & C2 & C3	CAP. .01MFD 100V 20% DISC	1001610
E1 THRU E3	INTEGRATED CKT. DEC744ON	1905579

PARTS LIST

REVISIONS	CHK	CHG NO.	REV.
		6422	A
		6824	B
		00001	C
		00002	G
		00003	E

		DATE
DRN.	M. Waller	3-15-67
CHK'D		4-21-67
ENG.	L. White	4-21-67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: 6-4 INPUT NOR BUFFERS M617

SIZE	CODE	NUMBER	REV.
B	CS	M617-0-1	E

PRINTED CIRCUIT REV. A

DIST. 324 434 435[3]

Pink 5

DEC FORM NO.
DRB 102

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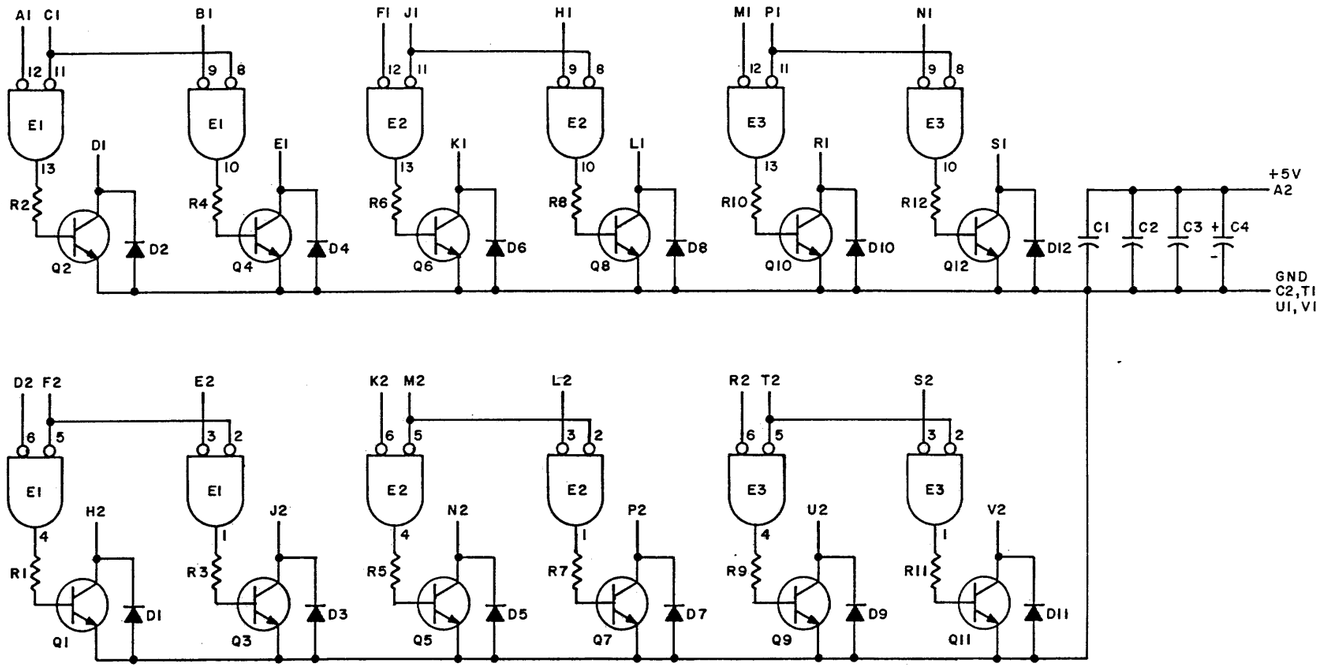

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M623-0-0
C1 - C3	CAP. .01 MFD 100V 20% DISC	1001610
C4	CAP. 6.8 MFD 35V 20% S.TANT	1000067
D1 - D12	DIODE D664	1100114
R1 - R12	RES. 390 1/4W 5% CC	1300309
Q1 - Q12	TRANSISTOR DEC30098	1503100
E1 - E3	INTEGRATED CKT. DEC7402	1909004

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3606		
DEC30098	2N3009		

REVISIONS			
CHK	CHG NO.	REV.	
	00002	B	
	00003	D	
	00005	E	
	00007	F	

DRN. M. Keller DATE 6-4-68
CHK'D DATE 6/10/68
ENG. DATE 7/11/68
PROD. DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: BUS DRIVER M623

SIZE	CODE	NUMBER	REV.
C	CS	M623-0-1	F

PRINTED CIRCUIT REV. D E

DEC FORM NO. DRC 102

PINK 4

DIST. 324 434 493 3

SIZE C CODE CS NUMBER M623-0-1 REV. F

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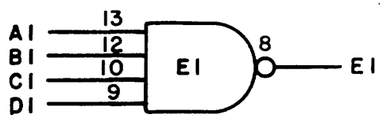
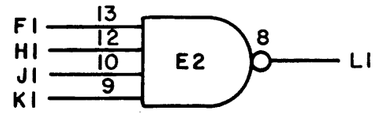
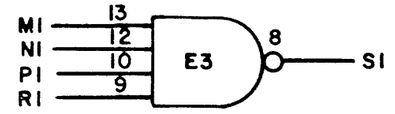
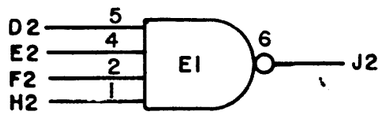
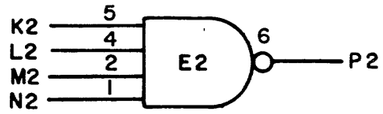
+5V —— A2
NOT USED -15V —— B2
GND —— C2, T1

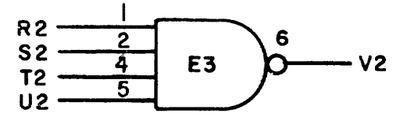




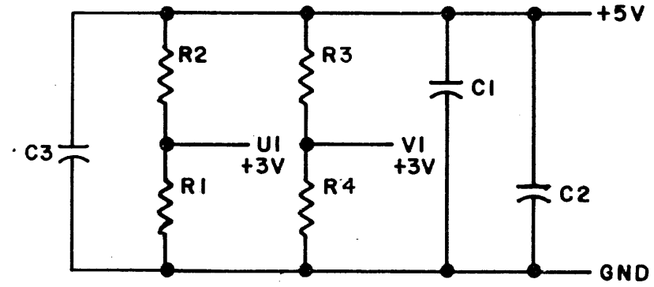








NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V



REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M627-0-0
C1 THRU C3	CAP. .01 MFD 100V 20% DISC	1001610
R1 & R4	RES. 750 1/4W 5% CC	1301401
R2 & R3	RES. 330 1/4W 10% CC	1300293
E1 THRU E3	INTEGRATED CKT. DEC74H40	1905586

PARTS LIST

REVISIONS						
REV	A	B	E	F		
CHG NO	6825	00001	00002	00003		
CHK	Rad	MM	[illegible]	JRZ		

DRN. M. Waller	DATE 7-18-67	
CHK'D R. Silverman	DATE 7/19/67	
ENG M. J. Gordon	DATE 7/20	
PROD	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: POWER AMPLIFIER MODULE M627

SIZE	CODE	NUMBER	REV.
B	CS	M627-0-1	F

PRINTED CIRCUIT REV. A

DIST. 324 434 435

DEC FORM NO
DRB 102

PINK · 5

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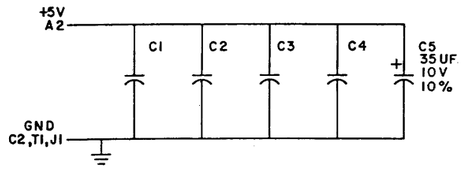
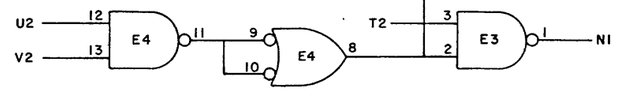
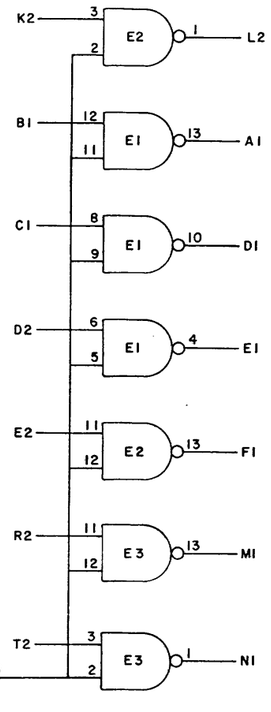
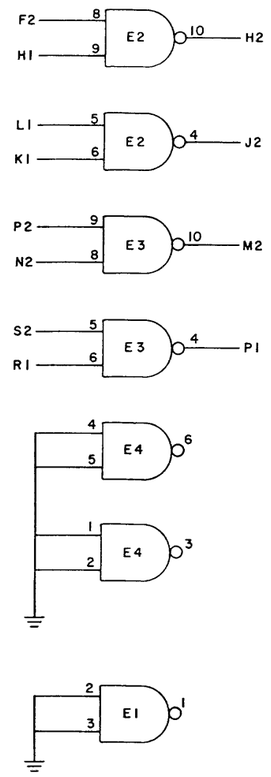
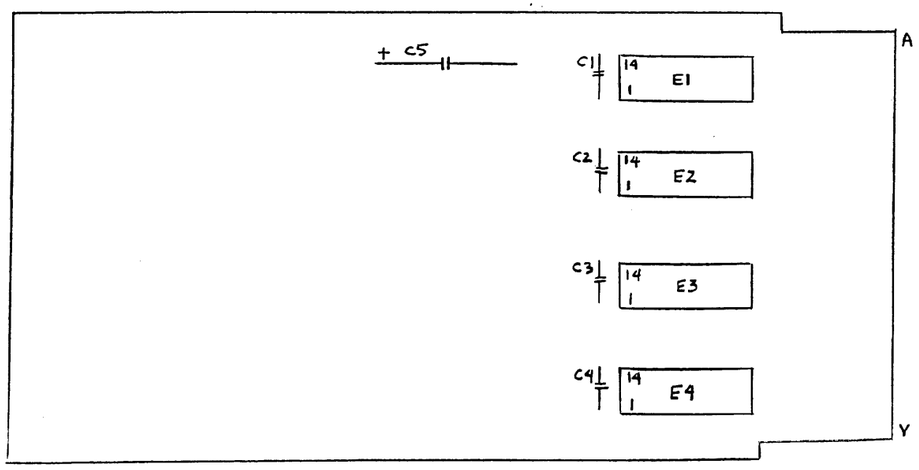


UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01UF, 100V, 20%
E1, E2 AND E3 ARE DEC 8881
E4 IS DEC 7400
PIN 7 = GND ON EACH IC
PIN 14 = +5V









ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
10	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
9	9006732	EYELET	2
8	1909705	I.C. DEC 8881	3
7	1905575	I.C. DEC 7400	1
6	1001610	CAP. .01UF, 100V, 20% DISC	4
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009347	ETCHED CIRCUIT BOARD	1
3	B-MH-M629-0-6	MODULE ECO HISTORY	
2	C-AH-M629-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M629-0-4	X-Y COORDINATE HOLE LOCATION	

SIZE C | CODE CS | NUMBER M629-0-1 | REV.

REVISIONS | REV. | NO | CHK

DRN	J. Cooper	DATE 12/14/70
CHK'D		DATE
ENG.		DATE
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: BUS DRIVERS M629

SIZE C | CODE CS | NUMBER M629-0-1 | REV.

PRINTED CIRCUIT REV. A

DEC FORM NG
DRC 102

SIZE	CODE	NUMBER	REV.
B	CS	M650-0-1	C

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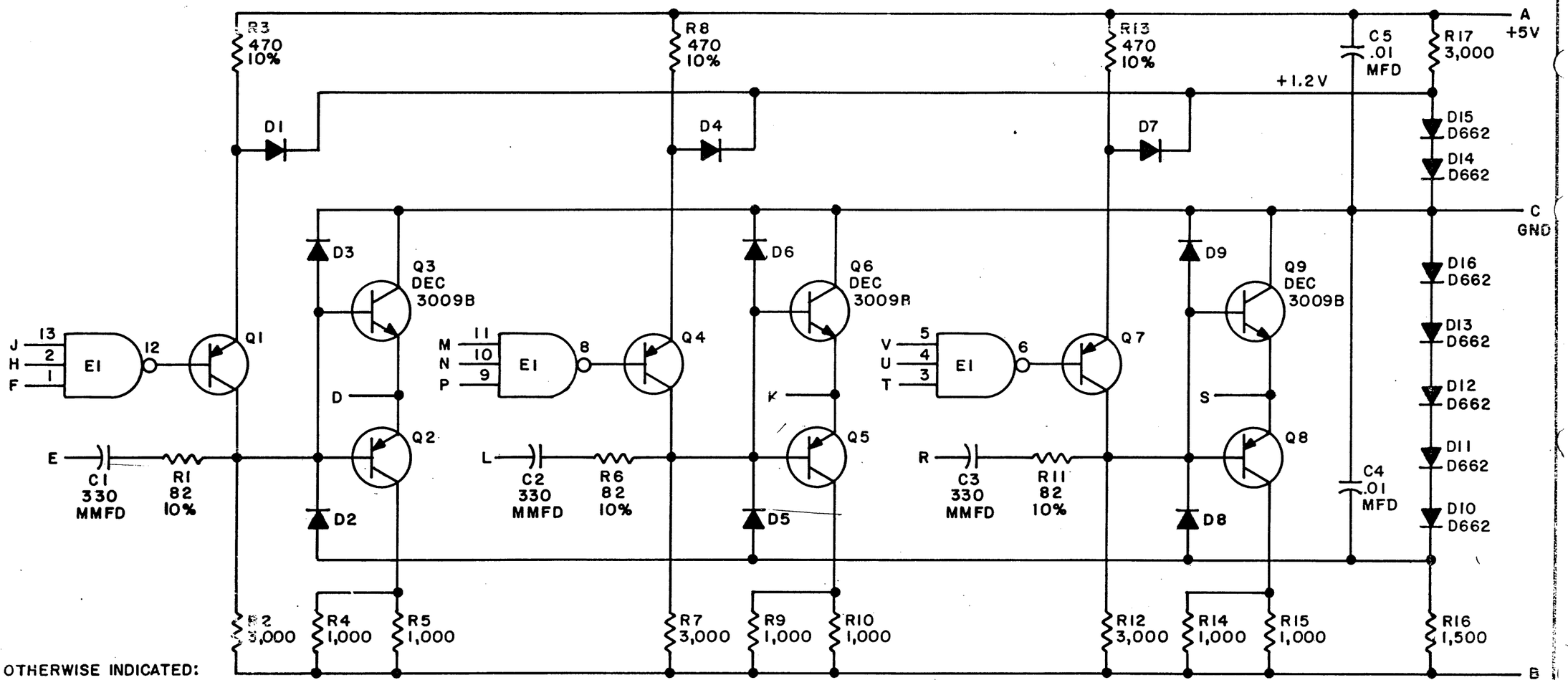

UNLESS OTHERWISE INDICATED:
DIODES ARE D664
TRANSISTORS ARE DEC6534B
RESISTORS ARE 1/4W, 5%
IC IS DEC74ION
PIN 7 ON IC = GND
PIN 14 ON IC = +5V

PARTS LIST A-PL-M650-0-0

REVISIONS	REV.	CHG NO.	CHK
	A	6676	
	B	7105	
	C	00001	MH

DRN. M. Haller	DATE 4-6-67	
CHK'D.	DATE	
ENG.	DATE 4/28/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC6534B	MPS6534		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE NEGATIVE OUTPUT CONVERTER M650

SIZE	CODE	NUMBER	REV.
B	CS	M650-0-1	C

PRINTED CIRCUIT REV. D

DEC FORM NO. DRB 102

PINK DIST. 434 435 324

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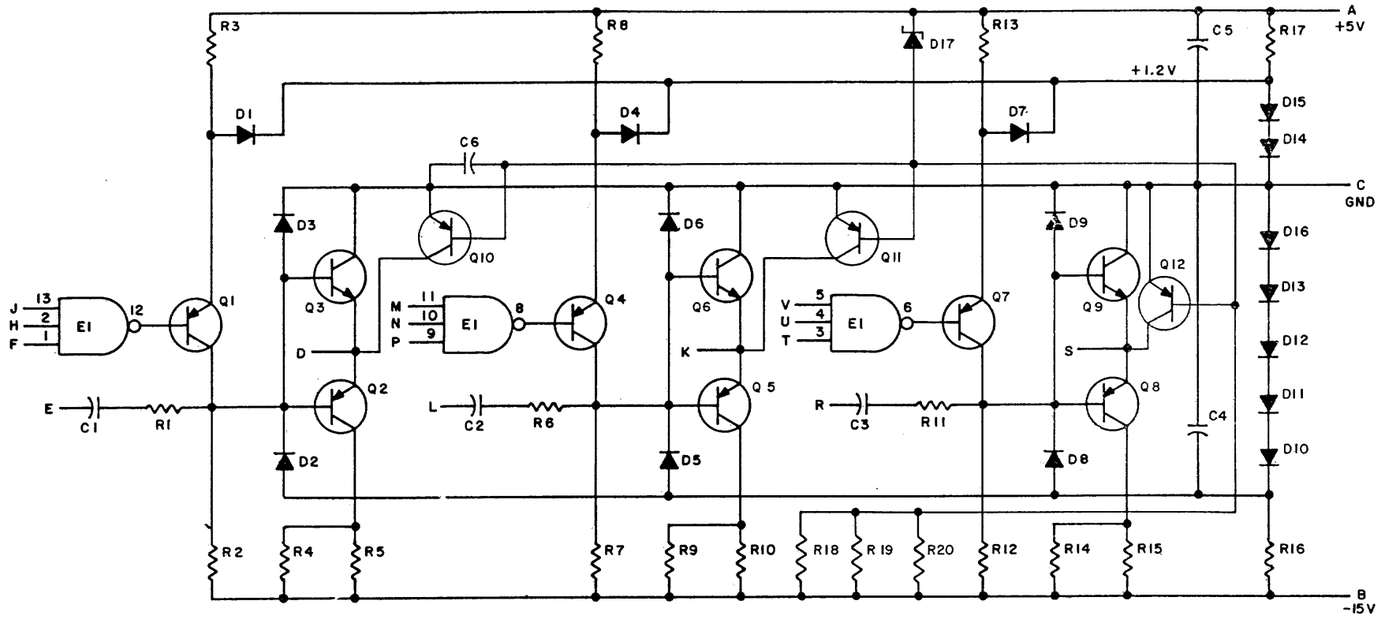

REFERENCE DESIGNATION	DESCRIPTION	PART NO
	PARTS LIST	
	~~PARTS LIST~~	~~A-PL-M651-0-0~~
C1, C2, C3	CAP .330 MMF 100V 5% D.M	1000023
C4, C5, C6	CAP .01 MFD 100V 20% DISC.	1001610
D1 - D9	DIODE D664	1100114
D10 - D16	DIODE D662	1100113
D17	DIODE IN750A	1100124
R1, R6, R11	RES. 82 1/4W 10% CC.	1300224
R2, R7, R12, R17	RES. 3K 1/4W 5% CC	1300432
R3, R8, R13	RES 470 1/4W 10% CC	1300317
R4, R5, R9, R10, R14, R15	RES. 1K 1/4W 5% CC	1300365
R16, R18, R19, R20	RES. 15K 1/4W 5% CC.	1300391
Q1, Q2, Q4, Q5, Q7, Q8, Q10, Q11, Q12	TRANSISTOR DEC 6534B	1503409-01
Q3, Q6, Q9	TRANSISTOR DEC 3009B-S	1503100
E1	INTEGRATED CKT. DEC 7410N	1905576

REVISIONS			
CHK	CHG NO.	REV	
4	00001	B	

DRN	Schilling	DATE 2-3-69
CHK'D	[illegible]	DATE 2-17-69
ENG.	Mel Overmark	DATE 2-17-69
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC6534B	MPS6534		
D662	IN645		
D664	IN3606		
IN750A	SAME		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: NEGATIVE OUTPUT CONVERTER M651

SIZE	CODE	NUMBER	REV
C	CS	M651-0-1	B

PRINTED CIRCUIT REV. A C

SIZE	CODE	NUMBER	REV
C	CS	M651-0-1	B

DEC FORM NO.
DRC 102

SIZE	CODE	NUMBER	REV.
B	CS	M660-0-1	A

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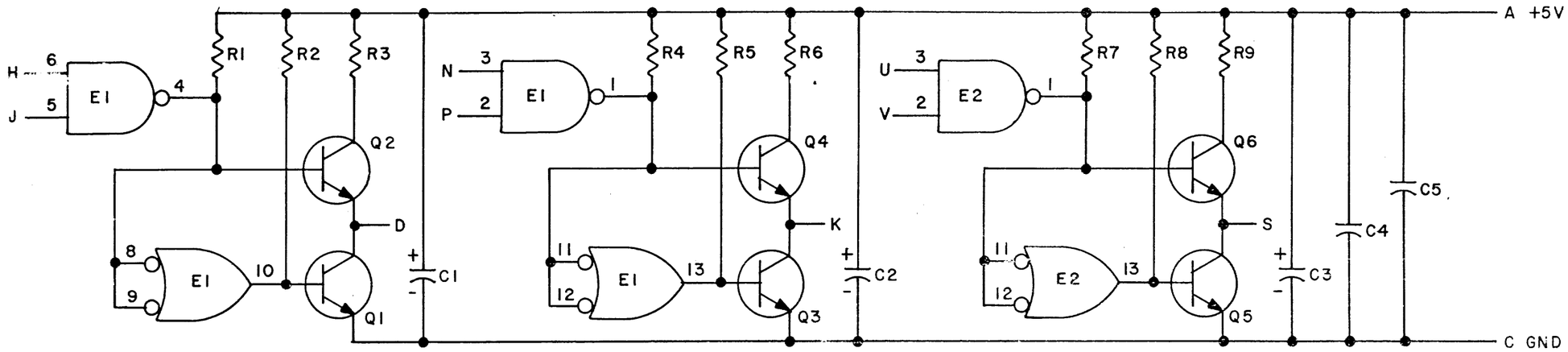

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M660-0-0
C1-C3	CAP. 6.8MFD 35V 20% S.TANT	1000067
C4,C5	CAP. .01MFD 100V 20% DISC	1001610
R1,R4,R7	RES. 470 1/4W 5% CC	1300316
R2,R5,R8	RES. 1.5K 1/4W 5% CC	1300391
R3,R6,R9	RES. 27 1/2W 5% CC	1302253
Q1-Q6	TRANSISTOR DEC3009B-S	1503100
E1,E2	INTEGRATED CKT. DEC740IN	1905590

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		
IN750	SAME		
DEC3009B	2N3009		

REVISIONS		
CHK	CHG NO.	REV.
	00001	A

DRN.	M. Keller	DATE 7-12-68
CHK'D	W. Mueller	DATE 7/12/68
ENG.	[illegible]	DATE 7/24/68
PROD.		DATE

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: POSITIVE LEVEL DRIVER M660

SIZE	CODE	NUMBER	REV
B	CS	M660-0-1	A

PRINTED CIRCUIT REV. B

DIST. 1 | 434 | 435-2 | 324

PINK

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	M661-0-1	

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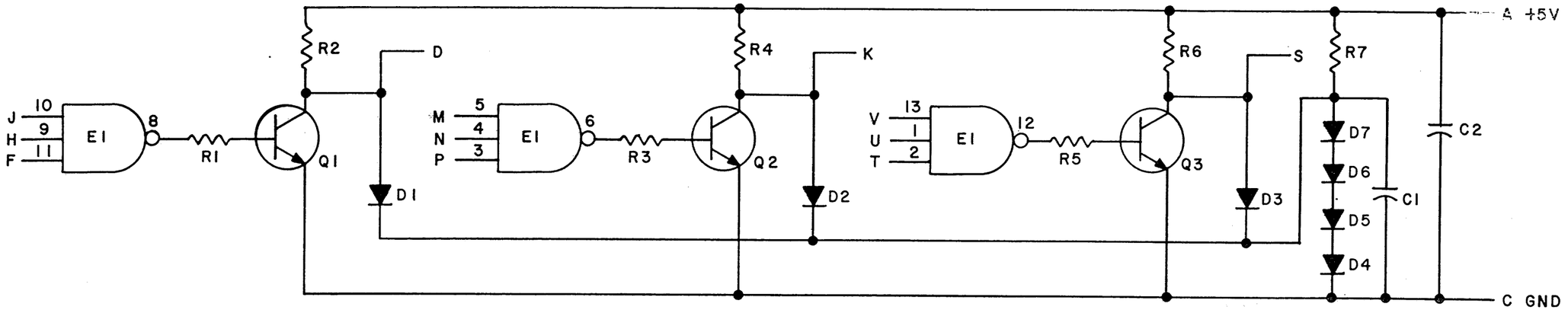

NOTES:
PIN 7 ON IC = GND
PIN 14 ON IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M661-0-0
C1, C2	CAP. .01MFD 100V 20% DISC	1001610
D1, D2, D3	DIODE D664	1100114
D4-D7	DIODE D662	1100113
R1, R3, R5	RES. 680 1/4W 5% CC	1301424
R2, R4, R6	RES. 220 1/4W 5% CC	1300271
R7	RES 330 1/4W 5% CC	1300295
Q1, Q2, Q3	TRANSISTOR DEC3009B-S	1503100
E1	INTEGRATED CKT, DEC7410N	1905576

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		

REVISIONS	REV.	CHG NO.	CHK

DRN.	M. Mullen	DATE 6-20-68
CHK'D	W. Mullen	DATE 6/28/68
ENG.		DATE
PROD.		DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: POSITIVE LEVEL DRIVER M661

SIZE	CODE	NUMBER	REV.
B	CS	M661-0-1	

PRINTED CIRCUIT REV. A

DIST. 324 434 437

DEC FORM NO.
DRB 102

PINK

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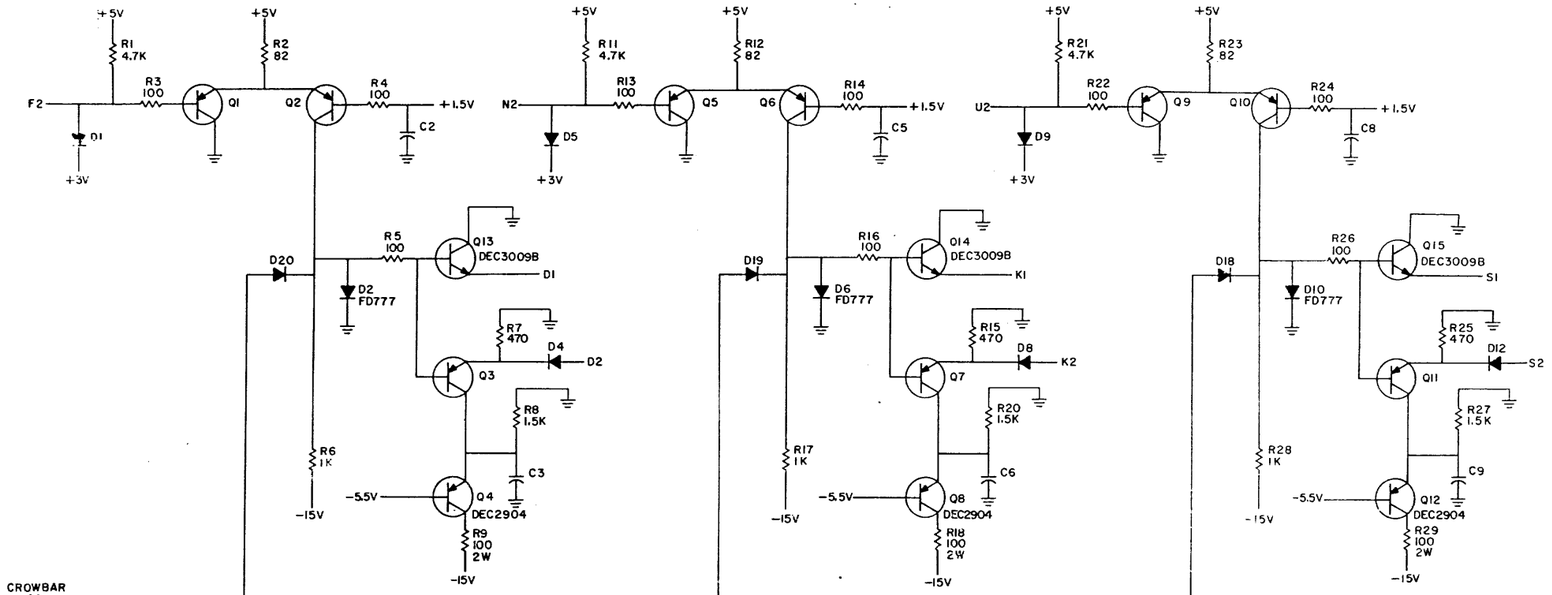
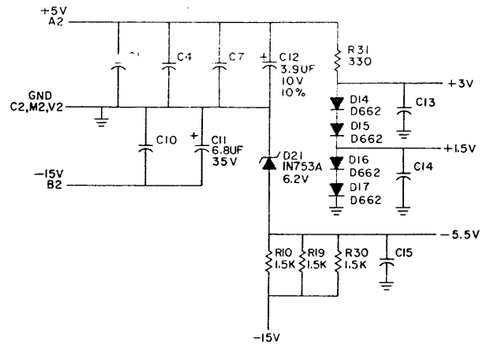
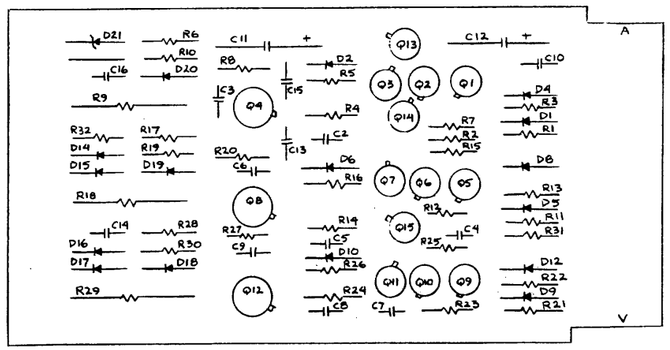




UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5 %
CAPACITORS ARE .01UF, 100V, 20%
DIODES ARE D664
TRANSISTORS ARE DEC4258



24	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
23	9006732	EYELET #GS 4-7	2
22	1505321	TRANSISTOR DEC 4258	9
21	1503100	TRANSISTOR DEC 3009B	3
20	1501742	TRANSISTOR DEC 2904	3
19	1302380	RES. 10C, 2W, 5%	3
18	1301477	RES. 82, ½W, 5%	3
17	1300447	RES. 4.7K, ¼W, 5%	3
16	1300391	RES. 1.5K, ¼W, 5%	7
15	1300365	RES. 1K, ¼W, 5%	3
14	1300316	RES. 470, ¼W, 5%	3
13	1300295	RES. 330, ¼W, 5%	1
12	1300229	RES. 100, ¼W, 5%	9
11	1103041	DIODE FD777	3
10	1102121	DIODE 1N753A	1
9	1100114	DIODE D664	9
8	1100113	DIODE D662	4
7	1001611	CAP. .01UF, 100V, 20% DISC	14
6	1000076	CAP. 3.9UF, 10V, 10% S. TANT	1
5	1000067	CAP. 6.8UF, 35V, 20% S. TANT	1
4	5009391	ETCHED CIRCUIT BOARD	1
3	[illegible]-0-6	MODULE ECO HISTORY	
2	[illegible]-0-5	ASSY/WIRE LIST/HOLE LAYOUT	
1	[illegible]-0-4	ASSY/WIRE LIST/HOLE LOCATION	
ITEM NO.	PART NO.	DESCRIPTION	QTY

REVISIONS			
CHK	CHG NO	REV	
P.A.	10001	C	
D.J. Dolle	3-1-72		
P.F. SULLIVAN			

DRN J. Cooper DATE 1-7-71
CHK'D DATE
ENG DATE
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606	DEC2904	2N2118A
D662	IN645	DEC3009B	2N3009
IN753A 6.2V	SAME	DEC4258	2N4258

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 50 OHM "OR" BUS DRIVER M663

SIZE D | CODE CS | NUMBER M663-0-1 | REV C

PRINTED CIRCUIT REV. C

SIZE D | CODE CS | M663-0-1 | REV C

DEC FORM NO. D68 116

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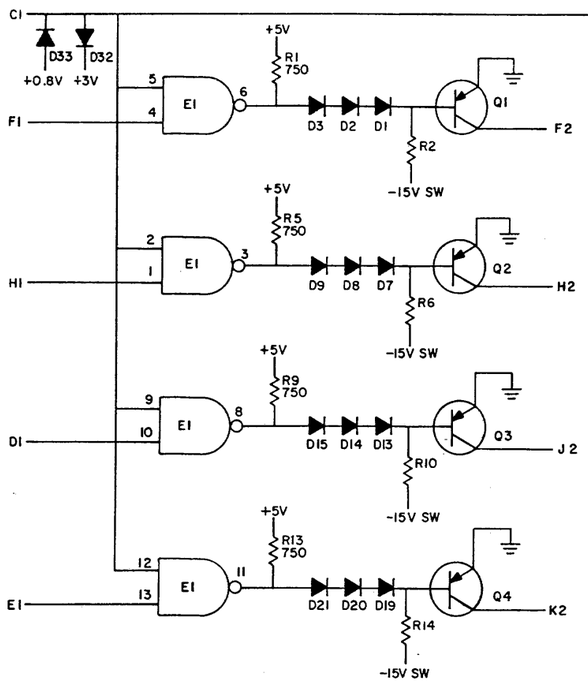
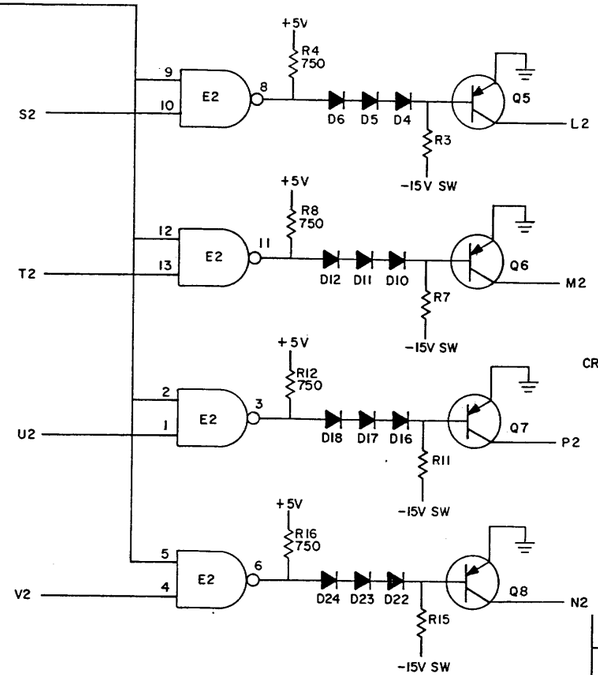
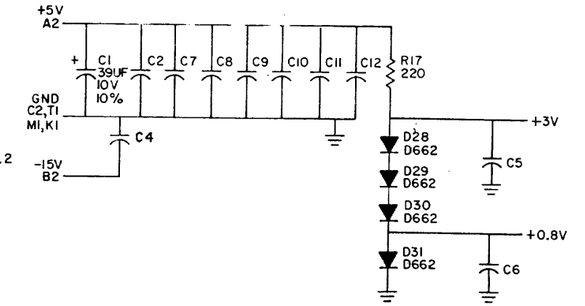
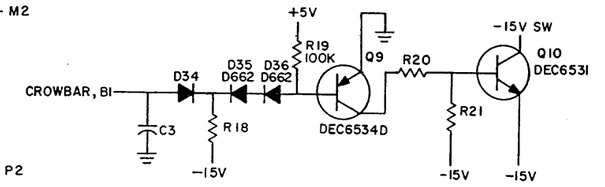


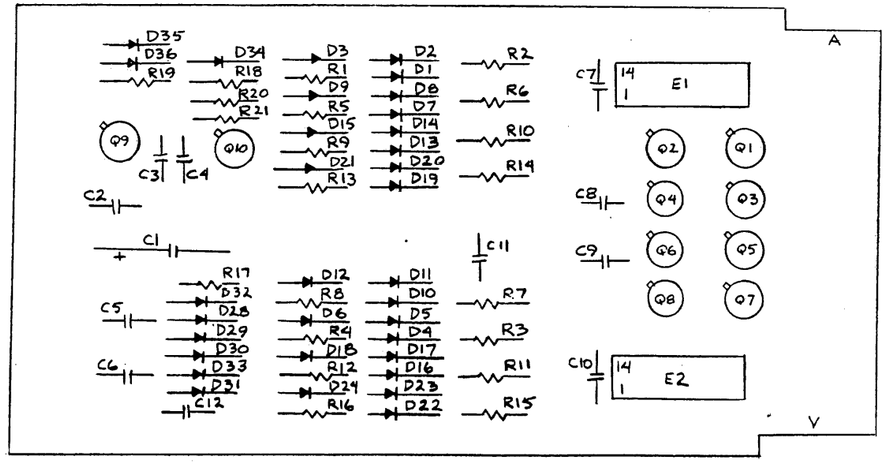






UNLESS OTHERWISE INDICATED:
RESISTORS ARE 7.5K, 1/4W, 5%
DIODES ARE D664
CAPACITORS ARE .01UF, 100V, 20%
TRANSISTORS ARE DEC4258
IC'S ARE DEC1074H00

PIN 7 = GND
PIN 14 = +5V ON ALL IC'S



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
		PARTS LIST	
18	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
17	9006732	EYELET #GS 4-7	2
16	1910462	I.C. DEC1074H00	2
15	1509338	TRANSISTOR DEC 6531	1
14	1505321	TRANSISTOR DEC 4258	8
13	1503409-00	TRANSISTOR DEC 6534D	1
12	1302466	RES. 100K, ¼W, 5%	1
11	1301422	RES. 7.5K, ¼W, 5%	11
10	1301401	RES. 750, ¼W, 5%	8
9	1300271	RES. 220, ¼W, 5%	1
8	1100114	DIODE D664	27
7	1100113	DIODE D662	6
6	1001610	CAP. .01UF, 100V, 20% DISC	11
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009381	ETCHED CIRCUIT BOARD	1
3	B-MH-M664-0-6	MODULE ECO HISTORY	
2	C-AH-M664-0-5	ASS/DRILLING HOLE LAYOUT	
1	K-CC-M664-0-4	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		
DEC4258	2N4258		
DEC6534	MPS6534		
DEC6531	MPS6531		

REVISIONS	CHK	CHG NO.	REV.
		00001	A

DRN. J. Cotter	DATE	1/6/71
CHK'D	DATE	2-3-71
ENG.	DATE	
PROD.	DATE	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: IO BUS DRIVER M664

SIZE	CODE	NUMBER	REV.
C	CS	M664-0-1	A

PRINTED CIRCUIT REV. B

STATE CODE	NUMBER	REV.
C	M664-0-1	A

DEC FORM NO.
DRC 102

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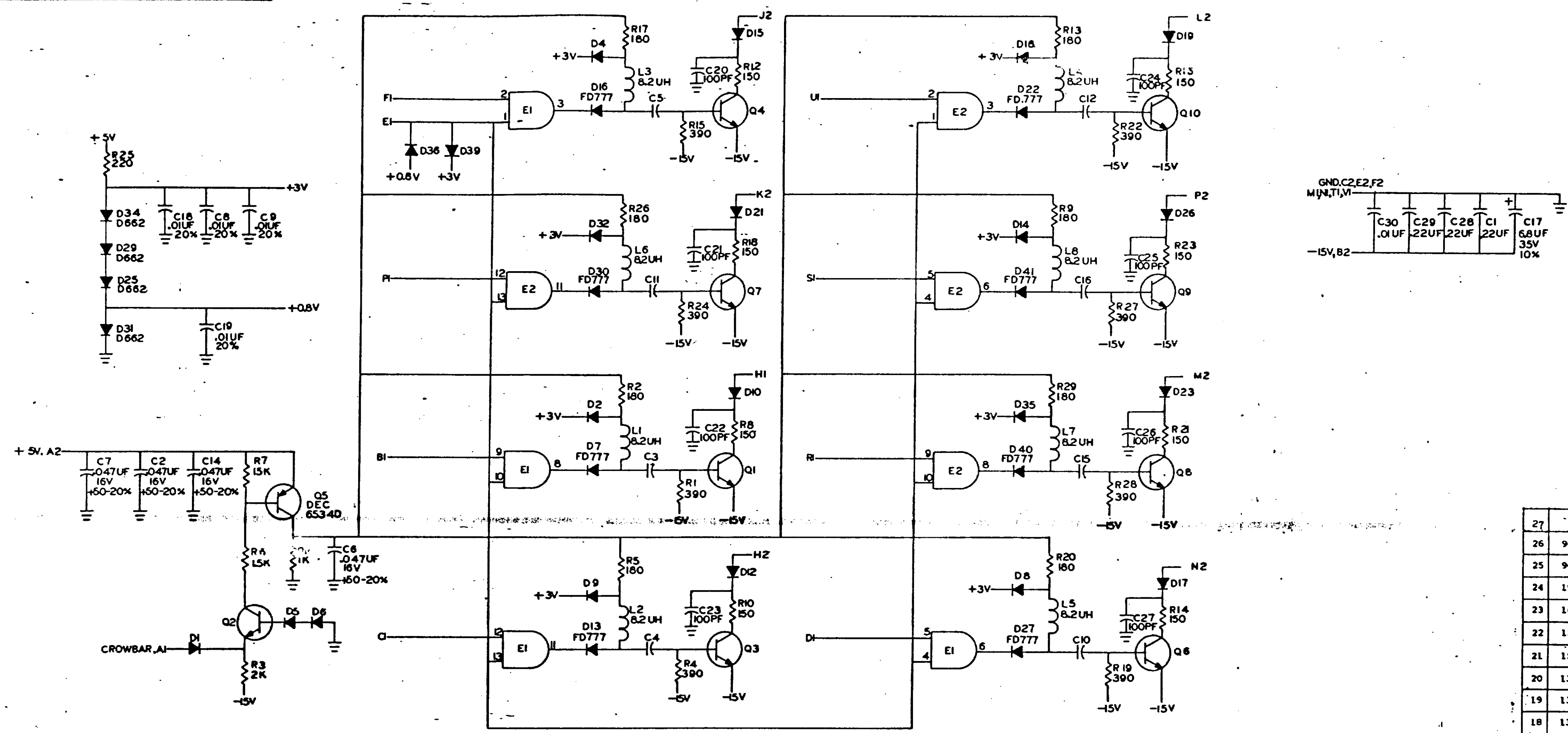

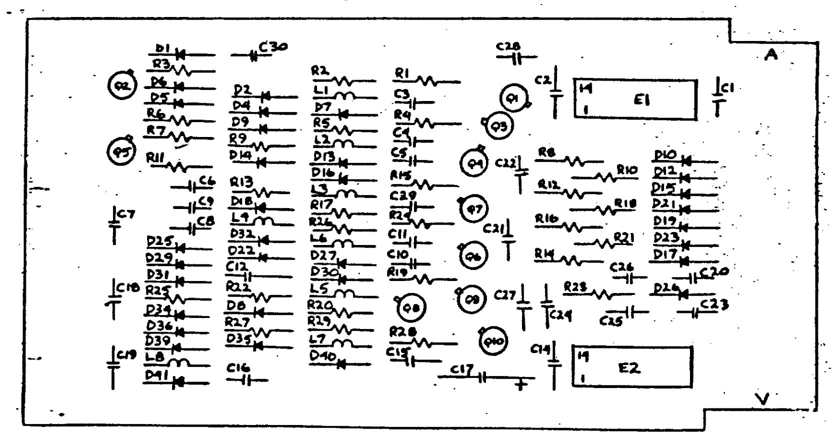

UNLESS OTHERWISE INDICATED:
DIODES = D664
RESISTORS = 1/4W, 5%
TRANSISTORS = DEC3009B
E1 E2 = DEC3001
PIN 7 = GND
PIN 14 = +5V
ON ALL IC'S
CAPACITORS = 180PF, 100V, 5%

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
27	1300250	RES. 150, 1/4W, 5%	8
26	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
25	9006732	EYELET #GS4-7	2
24	1909514	I.C. DEC 3001	2
23	1610273	INDUCTANCE 8.2 UH	8
22	1503409	TRANSISTOR DEC 6534D	1
21	1503100	TRANSISTOR DEC 3009B	9
20	1302388	RES. 2K, 1/4W, 5%	1
19	1301322	RES. 180, 1/4W, 5%	8
18	1300496	RES. 15K, 1/4W, 5%	1
17	1300391	RES. 1.5K, 1/4W, 5%	1
16	1300365	RES. 1K, 1/4W, 5%	1
15	1300309	RES. 390, 1/4W, 5%	8
14	1300271	RES. 220, 1/4W, 5%	1
13	1103041	DIODE FD777	8
12	1100114	DIODE D664	21
11	1100113	DIODE D662	4
10	1010274	CAP. .22UF 50V	3
9	1009678	CAP. .047UF, 16V, +50 -20%	4
8	1005306	CAP. 6.8UF, 35V, 10% S. TANT	1
7	1001610	CAP. .01UF, 100V, 20% DISC	5
6	1000020	CAP. 180PF, 100V, 5%	8
5	1000016	CAP. 100PF, 100V, 5%	8
4	5009408	ETCHED CIRCUIT BOARD	1
3	B-MH-M665-0-6	MODULE ECO HISTORY	
2	C-AH-M665-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CC-M665-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

REVISIONS		
REV	CHG NO	CHK
E	10000	

DRN R. J. Doucette DATE 1-15-70
CHK'D DATE
ENG P. Sullivan DATE 2-9-71
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	1N645		
FD777	SAME		
DEC6534D	MPS6534		
DEC3009B	2N3009		
D664	1N3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE MEMORY BUS TRANSMITTER M665

SIZE D CODE CS NUMBER M665-0-1 REV. E

PRINTED CIRCUIT REV E

DEC FORM NO. DRR 116

P.2R Blue

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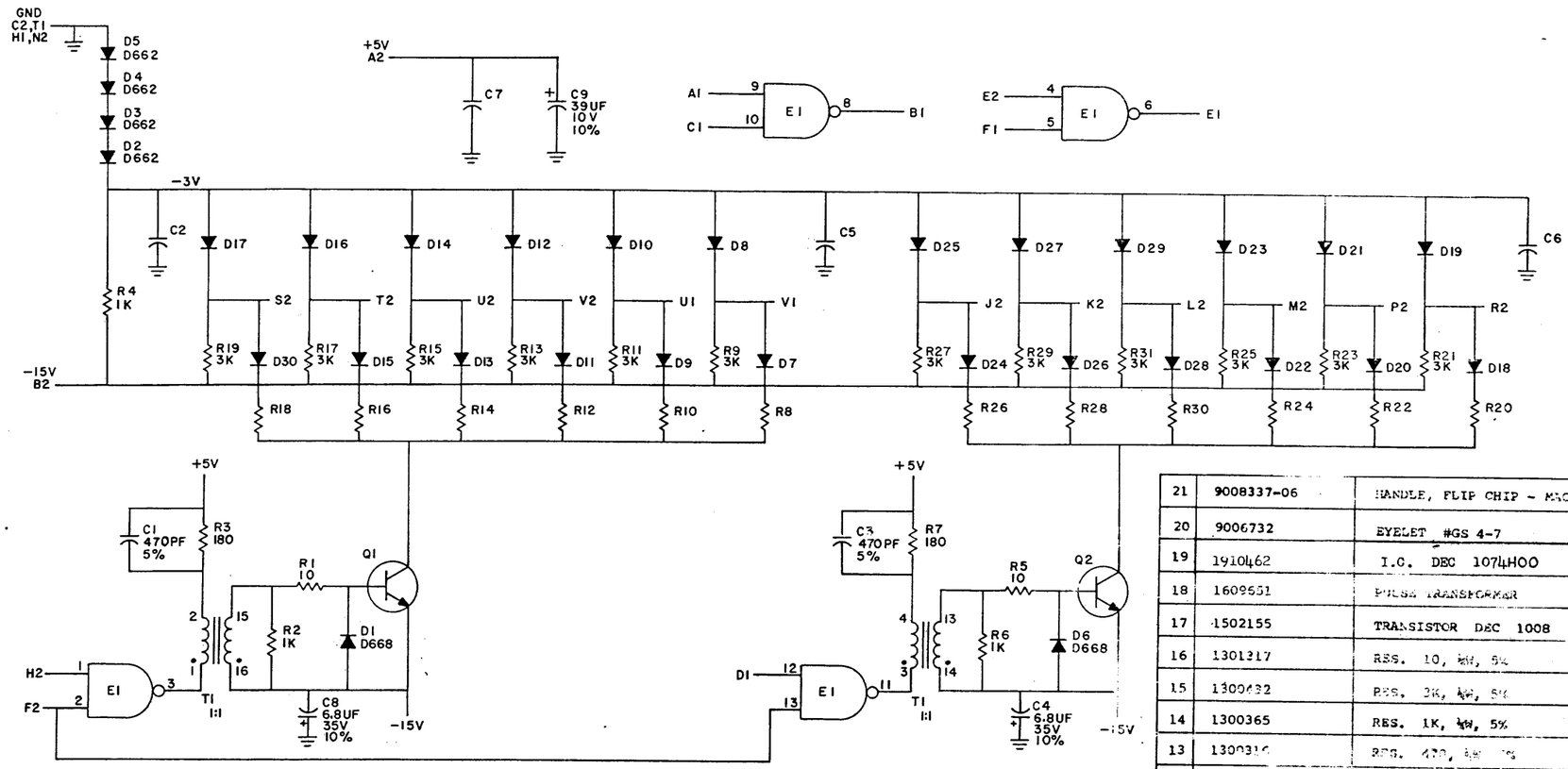
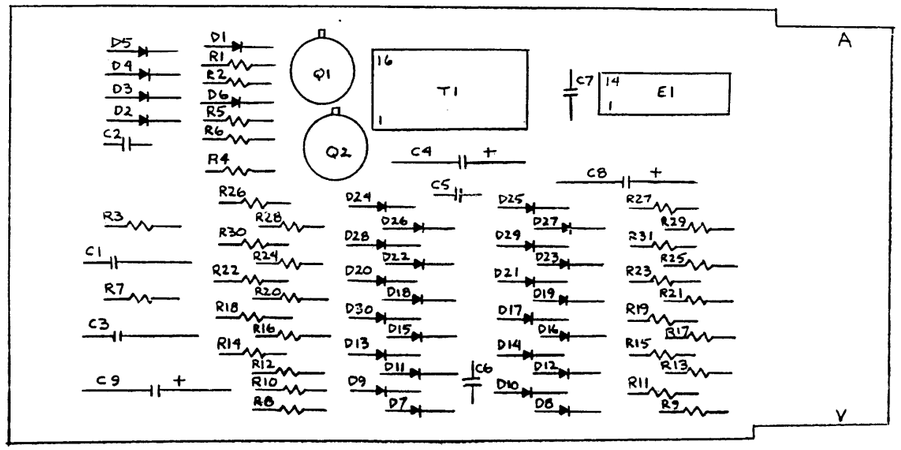


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 470, 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
TRANSISTORS ARE DEC1008
DIODES ARE D664
T1 IS T20 PULSE TRANSFORMER 1609651
E1 IS DEC1074H00
PIN 7 = GND ON EACH IC
PIN 14 = +5V



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
21	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
20	9006732	EYELET #GS 4-7	2
19	1910462	I.C. DEC 1074H00	1
18	1609651	PULSE TRANSFORMER	1
17	1502155	TRANSISTOR DEC 1008	2
16	1301317	RES. 10, ¼W, 5%	2
15	1300432	RES. 2K, ¼W, 5%	12
14	1300365	RES. 1K, ¼W, 5%	3
13	1300316	RES. 470, ¼W, 5%	13
12	1301322	RES. 180, ¼W, 5%	2
11	1102161	DIODE D668	2
10	1100114	DIODE D664	2
9	1100113	DIODE D662	4
8	1005306	CAP. 6.8UF, 35V, 10%	2
7	1001610	CAP. .01UF, 100V, 20%	4
6	1000076	CAP. 39UF, 10V, 10% TANT	1
5	1000024	CAP. 470PF, 100V, 5%	2
4	5009288	ETCHED CIRCUIT BOARD	1
3	B-MH-M666-0-6	MODULE ECO HISTORY	
2	C-AH-M666-C-5	ASSY DRAWING (COLE LAYOUT)	
1	B-CC-M666-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

* 2 (TWO) IN3606 IN SERIES

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606	DEC 1008	MM 1008
D662	IN645		
D668	D668 *		

REVISIONS	CHK	CHG NO.	REV.
		00201	D
		00902	E

DRN. A. Cooper DATE 11/20/70
CHK'D DATE 1-19-71
ENG. DATE 1/19/71
PROD. DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE I.O. BUS RESET M666

SIZE C | CODE CS | NUMBER M666-0-1 | REV E

PRINTED CIRCUIT REV

DEC FORM NO. DRC 102

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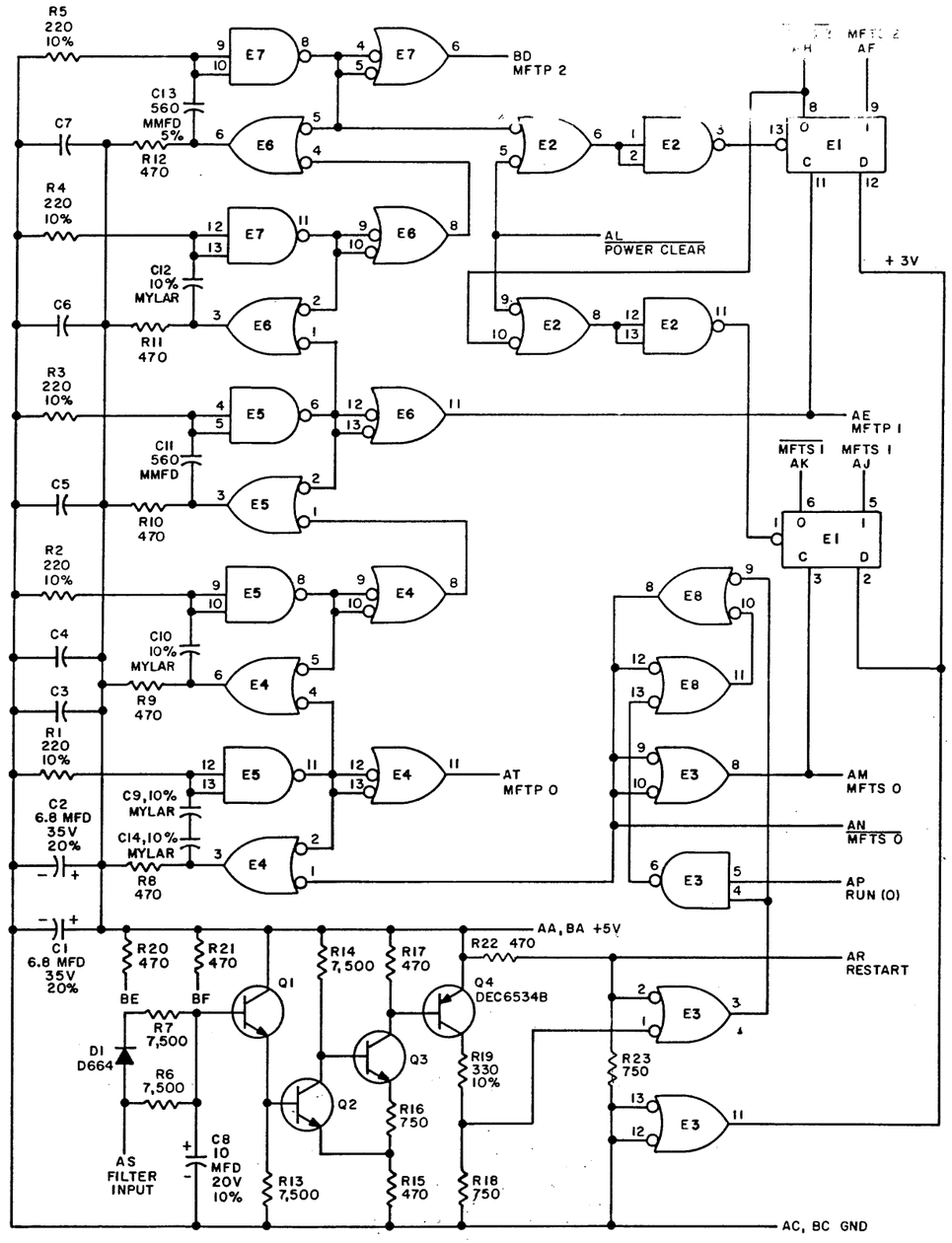

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC3009B
CAPACITORS ARE .01 MFD, 100V, 20%
RESISTORS ARE 1/4W, 5%
E1 IS DEC7474
E2, E3, E4, E5, E6, E7, E8 ARE DEC7400
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

PARTS LIST A-PL-M700-0-0

REVISIONS			
CHK	CHG NO.	REV.	
	6829	A	
	00001	B	
	00002		
	00003	E	

DRN. M. Walker	DATE 4-27-67	
CHK'D	DATE 5/5/67	
ENG.	DATE 5/16/67	
PROD.	DATE 2-5-68	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC6534B	MPS6534		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE MANUAL TIMING GENERATOR M700

SIZE	CODE	NUMBER	REV.
C	CS	M700-0-1	E

PRINTED CIRCUIT REV. E

DEC FORM NO. DRC 102

PINK - DIST. 331/334/335

5

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SIZE B | CODE CS | NUMBER M703-0-1 | REV. J

PWR LOW (1) T2
INITIALIZE S2
PWR LOW (0) R2
STOP O.K. P2
U2 SHUT DOWN
MB3 (0) D2
MB4 (0) E2
MB5 (1) F2
MB6 (0) H2
MB7 (0) J2
MB8 (0) K2
IOP2 (1) M2
L2 PWR SKIP
RESTART N2
U1
S1
C1 T.P.
A2 +5V
C2 TP GND

R1 470
R2 1,000
R3 470
R4 470
R5 1,500
R6 330
R7 1,000
R8 220
R9 180
R10 470
R11 1,500
R12 330
R13 220
R14 220
R15 180
R16 3,000
R17 220
R18 1,200
R19 220
R20 180
R21 4,700
R22 15,000
R23 3,000
R24 15,000
R25 3,900
R26 330
R27 1,500
R28 220
R29 33,000 10%
R30 7,500
R31 3,000
R32 1,500
R33 3,000
R34 4,700
R35 7,500
R36 180

C1 1 MFD 35V 10%
C2 2.2 MFD 20 V 10%
C3 C4 C5 C8 C10 C11 C12
C13 6.8 MFD 35V,20%
C14 22 MFD 35 V,10%
C7 560 MMFD 5%

D1 D2 D3 D4

Q1 Q2 Q3 Q4 Q5 DEC 3009B
Q6 DEC 3009B
Q7
Q8 DEC 3009B
Q9 DEC 3009B

E1 E2 E3 E4 E5 E6 E7

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
DIODES ARE D664
TRANSISTORS ARE DEC6534B
CAPACITORS ARE .01 MFD, 100V, 20%
E4 IS DEC7430N
E2, E6 ARE DEC7460N
E1, E3, E5, E7 ARE DEC7400N
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
S1 IS SWITCH #6ATI-T2

PARTS LIST A-PL-M703-0-0

REVISIONS	REV.	C	D	E	F	J
	CHG NO.	6617	7148 7125	7165	00001	00004
	CHK					

		DATE
DRN.	M. Waller	9-27-67
CHK'D		DATE
ENG.		DATE
PROD.	2	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534B	MPS6534		
D664	JN3606		
DEC3009B	2N3009		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

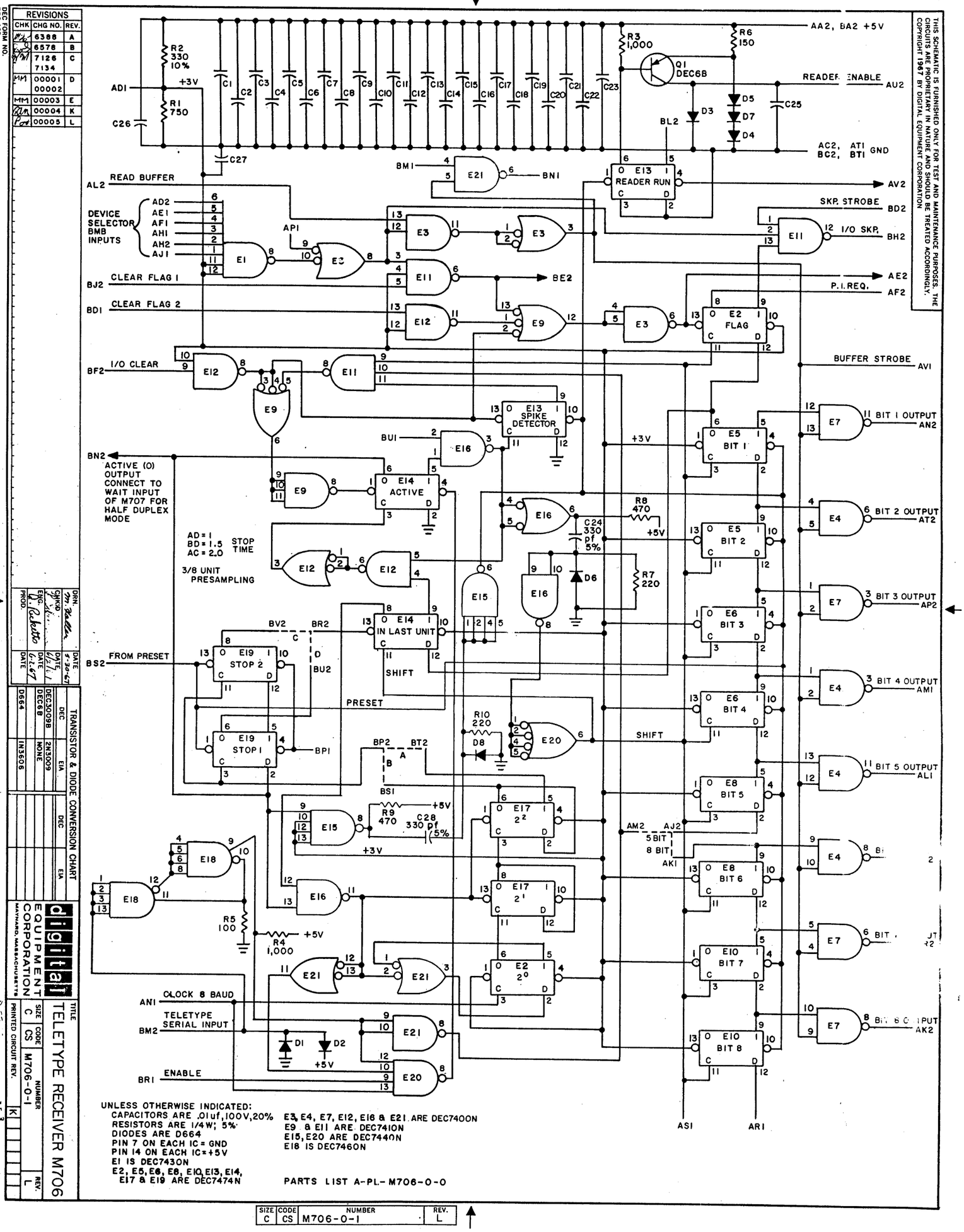
TITLE: POWER FAIL M703

SIZE	CODE	NUMBER	REV.
B	CS	M703-0-1	J

PRINTED CIRCUIT REV. J

DEC FORM NO. DRB 102

DIST 324 4351


REVISIONS
CHK | CHG NO. | REV.
6388 A
6578 B
7126 7134 C
00001 00002 D
00003 E
00004 K
00005 L
R2 330 10%
R1 750
+3V
AD1
C26
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23
C27
R3 1,000
R6 150
Q1 DEC6B
D3
D5 D7 D4
C25
BL2
AA2, BA2 +5V
READER ENABLE AU2
AC2, AT1 GND BC2, BT1
BM1
E21
BN1
E13 READER RUN
AV2
AL2 READ BUFFER
SKP. STROBE BD2
DEVICE SELECTOR BMB INPUTS
AD2 AE1 AF1 AH1 AH2 AJ1
E1
API
E3
E11 I/O SKP. BH2
BJ2 CLEAR FLAG 1
BE2
AE2
P.I.REQ. AF2
BD1 CLEAR FLAG 2
E12
E9
E2 FLAG
BF2 I/O CLEAR
BUFFER STROBE AV1
E13 SPIKE DETECTOR
BU1
E16
E5 BIT 1
E7 BIT 1 OUTPUT AN2
+3V
BN2
ACTIVE (0) OUTPUT CONNECT TO WAIT INPUT OF M707 FOR HALF DUPLEX MODE
E14 ACTIVE
R8 470
C24 330 pf 5%
+5V
E5 BIT 2
E4 BIT 2 OUTPUT AT2
AD=1 BD=1.5 AC=2.0 STOP TIME
3/8 UNIT PRESAMPLING
E15
D6
R7 220
E6 BIT 3
E7 BIT 3 OUTPUT AP2
BV2 BR2
E14 IN LAST UNIT
SHIFT
FROM PRESET BS2
E19 STOP 2
BU2
E6 BIT 4
E4 BIT 4 OUTPUT AM1
PRESET
R10 220
D8
E20
SHIFT
E19 STOP 1
BP1
BP2 BT2
BS1
R9 470
C28 330 pf 5%
E17 2²
E8 BIT 5
E4 BIT 5 OUTPUT AL1
AM2 AJ2
5 BIT
8 BIT
AK1
E18
R5 100
R4 1,000
E17 2¹
E8 BIT 6
E17 2⁰
E10 BIT 7
E7 BIT 7 OUTPUT AJ2
CLOCK 8 BAUD AN1
TELETYPE SERIAL INPUT BM2
D1 D2
E21
E20
BR1 ENABLE
E10 BIT 8
E7 BIT 8 OUTPUT AK2
ASI
ARI
UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01uf,100V,20%
RESISTORS ARE 1/4W; 5%
DIODES ARE D664
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
E1 IS DEC7430N
E2, E5, E6, E8, E10, E13, E14, E17 & E19 ARE DEC7474N
E3, E4, E7, E12, E16 & E21 ARE DEC7400N
E9 & E11 ARE DEC7410N
E15, E20 ARE DEC7440N
E18 IS DEC7460N
PARTS LIST A-PL-M706-0-0
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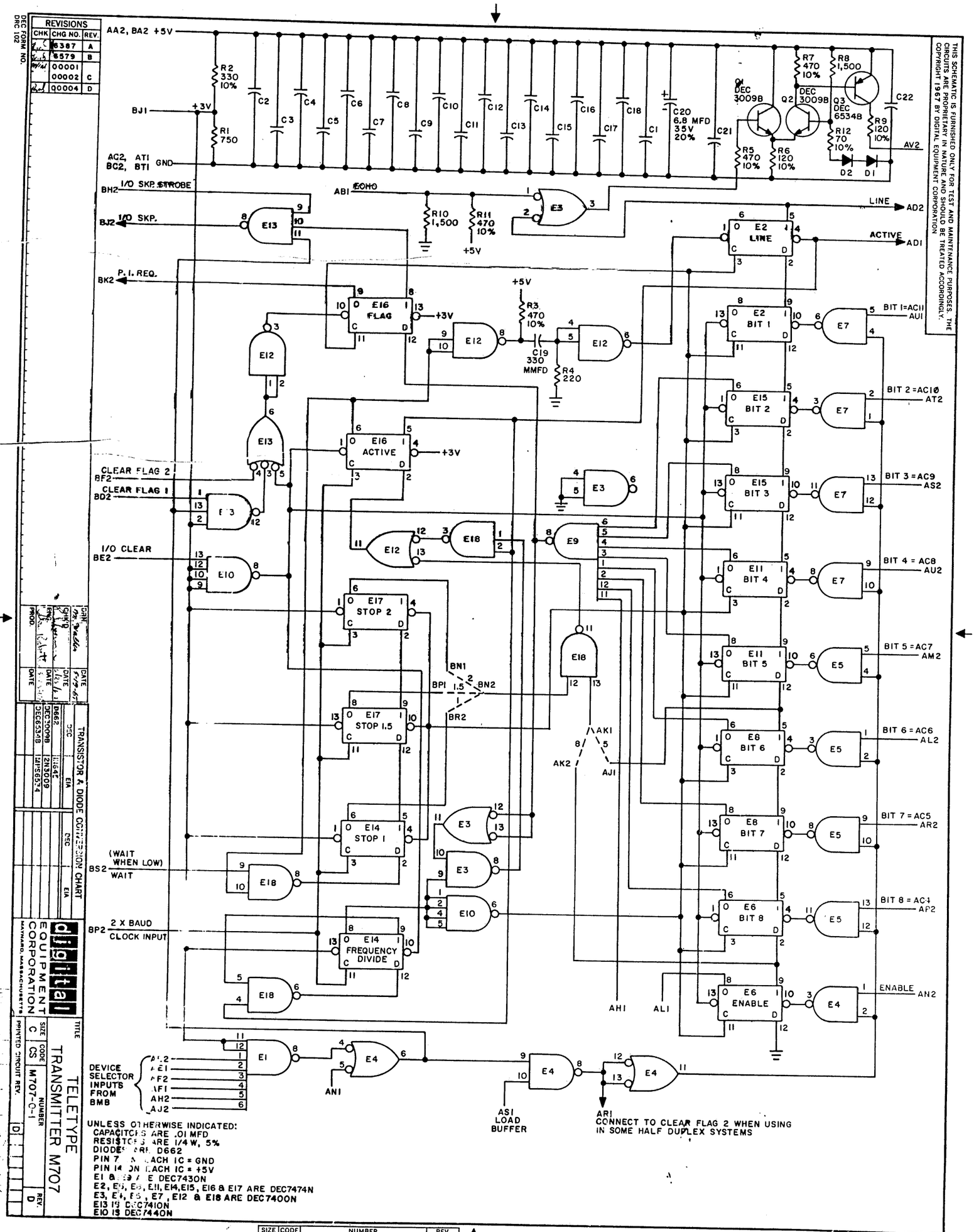
DRN. Jm Wallace 5-30-67
CHK'D. Jm Stevens 6-1-67
ENG. W. Colletto 6-1-67
PROD. DATE
TRANSISTOR & DIODE CONVERSION CHART
D664 IN3606
DEC 3009B DEC6B
2N3009 NONE
EIA
DEC
EIA
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS
TITLE TELETYPE RECEIVER M706
SIZE C CODE CS NUMBER M706-0-1 REV. L
PRINTED CIRCUIT REV. K
SIZE C CODE CS NUMBER M706-0-1 REV. L



SIZE C | CODE CS | NUMBER M707-0-1 | REV. D

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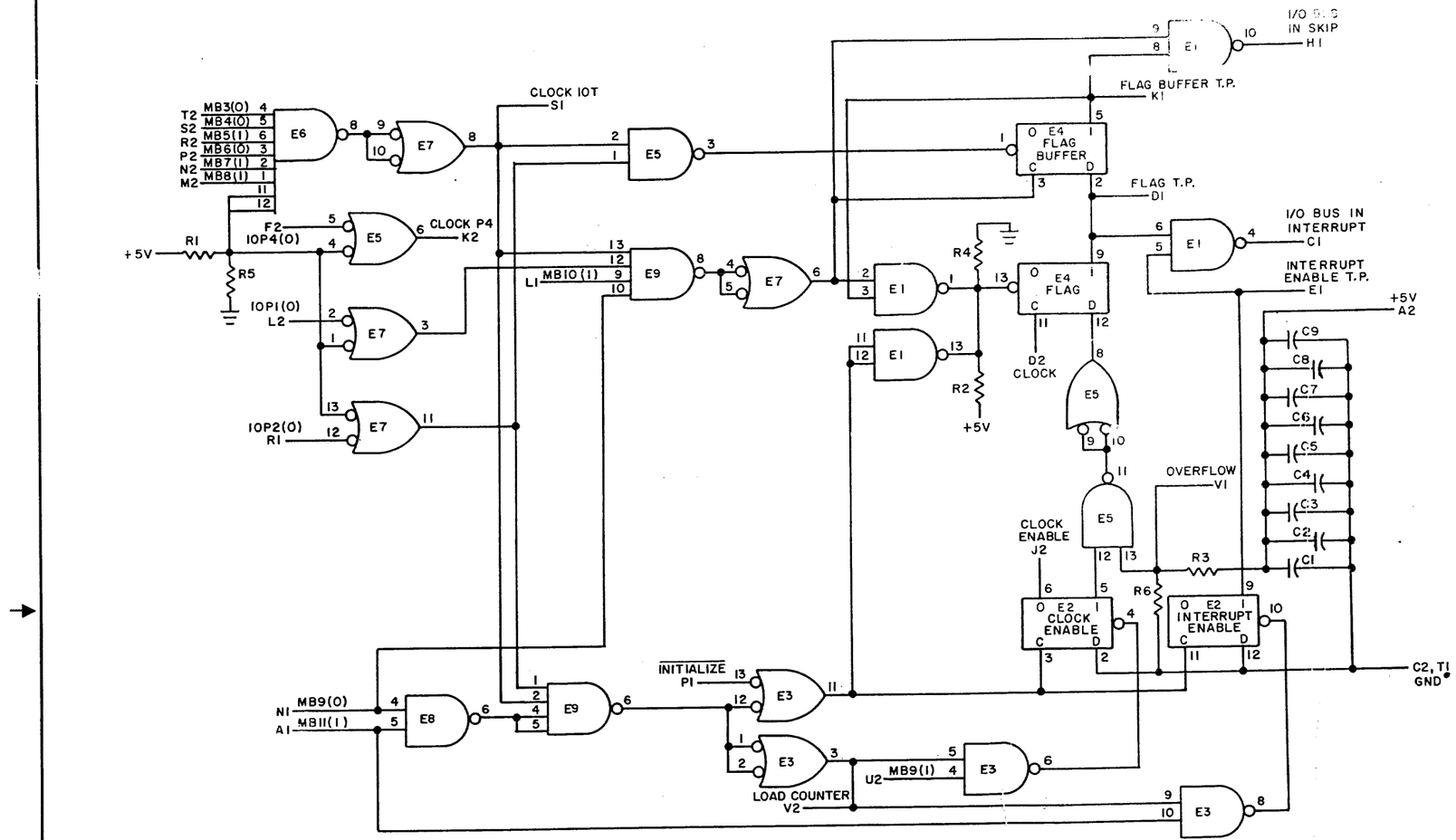

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
R4 - R6	RES. 1.5K 1/4W 5% CC	1300391
E9	INTEGRATED CKT. DEC7420N	1905577
E3,E5,E7,E8	INTEGRATED CKT. DEC7400N	1905575
E6	INTEGRATED CKT. DEC7430N	1905578
E2,E4	INTEGRATED CKT. DEC7474N	1905547
E1	INTEGRATED CKT. DEC7401N	1905590
R1-R3	RES. 750 1/4W 5% CC	1301401
C1 - C9	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M708-0-0

PARTS LIST

REVISIONS			
REV.	A	B	C
CHG NO.	00001	00002	00003
CHK	MH	MH	MH

DRN. M. Keller	DATE 3-8-68	
CHK'D	DATE 3/21/68	
ENG.	DATE 4/11/68	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: CLOCK CONTROL M708

SIZE	CODE	NUMBER	REV.
C	CS	M708-0-1	C

PRINTED CIRCUIT REV. C

PINK

DEC FORM NO. DRC 102

SIZE C CODE CS NUMBER M708-0-1 REV. C

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SIZE D | CODE CS | NUMBER M709-0-1 | REV A

I/O BUS IN 00 AF2
I/O BUS IN 01 BD1
I/O BUS IN 02 AF1
I/O BUS IN 03 BB1
I/O BUS IN 04 AJ2
I/O BUS IN 05 AU1
I/O BUS IN 06 AJ1
I/O BUS IN 07 AV2
I/O BUS IN 08 AM1
I/O BUS IN 09 AP2
I/O BUS IN 10 AM2
I/O BUS IN 11 AS1

E12 E12 E12 E12 E10 E10 E10 E10 E8 E8 E8 E8

O E6 CLOCK 0 C D
O E6 CLOCK 1 C D
O E5 CLOCK 2 C D
O E5 CLOCK 3 C D
O E4 CLOCK 4 C D
O E4 CLOCK 5 C D
O E3 CLOCK 6 C D
O E3 CLOCK 7 C D
O E2 CLOCK 8 C D
O E2 CLOCK 9 C D
O E1 CLOCK 10 C D
O E1 CLOCK 11 C D

OVERFLOW BS1
O E23 OVERFLOW C D

O E18 COUNT 0 C D
O E18 COUNT 1 C D
O E17 COUNT 2 C D
O E17 COUNT 3 C D
O E16 COUNT 4 C D
O E16 COUNT 5 C D
O E15 COUNT 6 C D
O E15 COUNT 7 C D
O E14 COUNT 8 C D
O E14 COUNT 9 C D
O E13 COUNT 10 C D
O E13 COUNT 11 C D

E11 E11 E11 E11 E9 E9 E9 E9 E7 E7 E7 E7

AE1 AC00(1)
BA1 AC01(1)
AV1 AC02(1)
AH1 AC03(1)
AU2 AC04(1)
AK1 AC05(1)
AT2 AC06(1)
AL1 AC07(1)
AR1 AC08(1)
AN2 AC09(1)
AR2 AC10(1)
AP1 AC11(1)

E22

GATE(1) T.P. BH2
BJ2 CLOCK
O E23 GATE C D
CLOCK TO COUNTER T.P. BF1
SET COUNTER T.P. BH1

+5V AA2, BA2
GND AC2, AT1 BC2, BT1
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20 C21 C22 C23 C24 C25

BN1 LOAD COUNTER
BJ1 MB10(1)
BK1 CLOCK P4
BL1 CLOCK 10T
BP1 MB10(0)
E19 E21 E21 E21

+5V R1 R2 D1 GND C26 E20 E20 R3 +5V C27 E19
TRANSFER T.P. AE2
READ 0-5 T.P. BR1
READ 6-11 T.P. BM1
CLK AC CLR BM2
E20 E20

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M709-0-0
C1 - C23	CAP. .01MFD 100V 20% DISC	1001610
C24, C25	CAP. 6.8MFD 35V 20% S. TANT	1000067
C26	CAP. 470MMF 100V 5% MICA	1000024
C27	CAP. 220MMF 100V 5% D.M.	1000021
D1	DIODE D664	1100114
R3	RES. 100 1/4W 5% CC	1300229
R2	RES. 220 1/4W 5% CC	1300271
R1	RES. 470 1/4W 5% CC	1300316
E8, E10, E12	INTEGRATED CKT. DEC7401N	1905590
E1-E6, E13-E18, E23	INTEGRATED CKT. DEC7474N	1905547
E7, E9, E11, E20, E22	INTEGRATED CKT. DEC7400N	1905575
E21	INTEGRATED CKT. DEC7410N	1905576
E19	INTEGRATED CKT. DEC7440N	1905579

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		

REVISIONS: CHG NO 00001 REV 4

DRN Jim Mathews DATE 3-18-68
CHK'D DATE 3/21/68
ENG. DATE 4/16/68
QUAL DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: CLOCK COUNTER M709

SIZE D | CODE CS | NUMBER M709-0-1 | REV A
PRINTED CIRCUIT REV. B

DIST. 324 434 435

PINK

DEC FORM NO. DRD 101

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M710-0-1 REV K

BF2, BD1, BD2, BE1, BE2, BF1 → E11, E14

IOP4 AP2 → E8 → BS2 I/O IN INT (E12)

IOP1 AR2 → E8 → E6 → ASI IOP 02 (T.P.)

IOP2 ARI, INITIALIZE AS2 → E8, E8, E6 → AJI CLEAR (T.P.)

FEED SW AT2, +5V R15 → E14, E13 → BUI FEED (T.P.)

AU2 PUN ACT (T.P.)

"0" → E9 ACTIVE

SYNC BIAS BU2, R14 100, +5V, R12 56, R13 5.6K

SYNC PUN AV2, R11 3K, Q2, Q1, C26, R10 3K, R9 150

E14, E14 → E16 PUN

R3 15K, R4 50K, BJ2 4.5MS, +5V, C22 2.2UF 35V 10%, D1 → E10 (10/4.5MS) → E12

+5V R5

BVI SYNC PUN 0 (T.P.)

AUI DEL PUN 1

BMI 4 SEC

R6 75K, R7 51K, R8 51K, +5V

C25 150 15V, C24 150 15V, D3

C23 180 6V, D2

E5 MOTOR (5 SEC)

E15 1st DELAY (.4/3 SEC)

E16 → E13

DEL PUN 2

SCR ACTIVE (0)

UNLESS OTHERWISE INDICATED:

CAPACITORS ARE .01UF, 100V, 20%
RESISTORS ARE 1K, 1/4W, 5%
DIODES ARE D664
TRANSISTORS ARE DEC6534D
DEC7474 = E1, E2, E4, E7, E9, E16
DEC9601 = E5, E10, E15
DEC7404 = E3, E6
DEC7400 = E8, E14
DEC 7440 = E13
DEC7401 = E12
DEC7430 = E11
PIN 7 = GND ON ALL IC'S
PIN 14 = +5V

AP1 CLOCK B (T.P.)

AJ2 CLOCK A (T.P.)

AC4 AH1 E4	AK1 PB0	AC8 AE1 E2	AK2 PB4
AC5 AH2 E4	AL1 PB1	AC9 AE2 E2	AL2 PB5
AC6 AF1 E7	AM1 PB2	AC10 AD1 E1	AM2 PB6
AC7 AF2 E7	AN1 PB3	AC11 AD2 E1	AN2 PB7

R1, R2

BH2 PUN DONE

+5V AA2, BA2

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 6.8UF 35V, C19 6.8UF 35V, C20 6.8UF 35V, C21 6.8UF 35V

GND AC2, AT1, BC2, BT1

REVISIONS			
COM	CHG NO	REV	
	00005	J	
	00008	K	
	00007		

DRN George Wyatt	DATE 1-4-71	
CHK	DATE 1/14/71	
ENG. M. Lee	DATE 1/14/71	
PROD. M. Lee	DATE 1-1	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		
DEC6534D	NONE		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: PUNCH . CONTROL M710

SIZE D | CODE CS | NUMBER M710-0-1 | REV K

PRINTED CIRCUIT REV. H

DEC FORM NO. 240 116

AUT CODE D CS | NUMBER M710-0-1 | REV K

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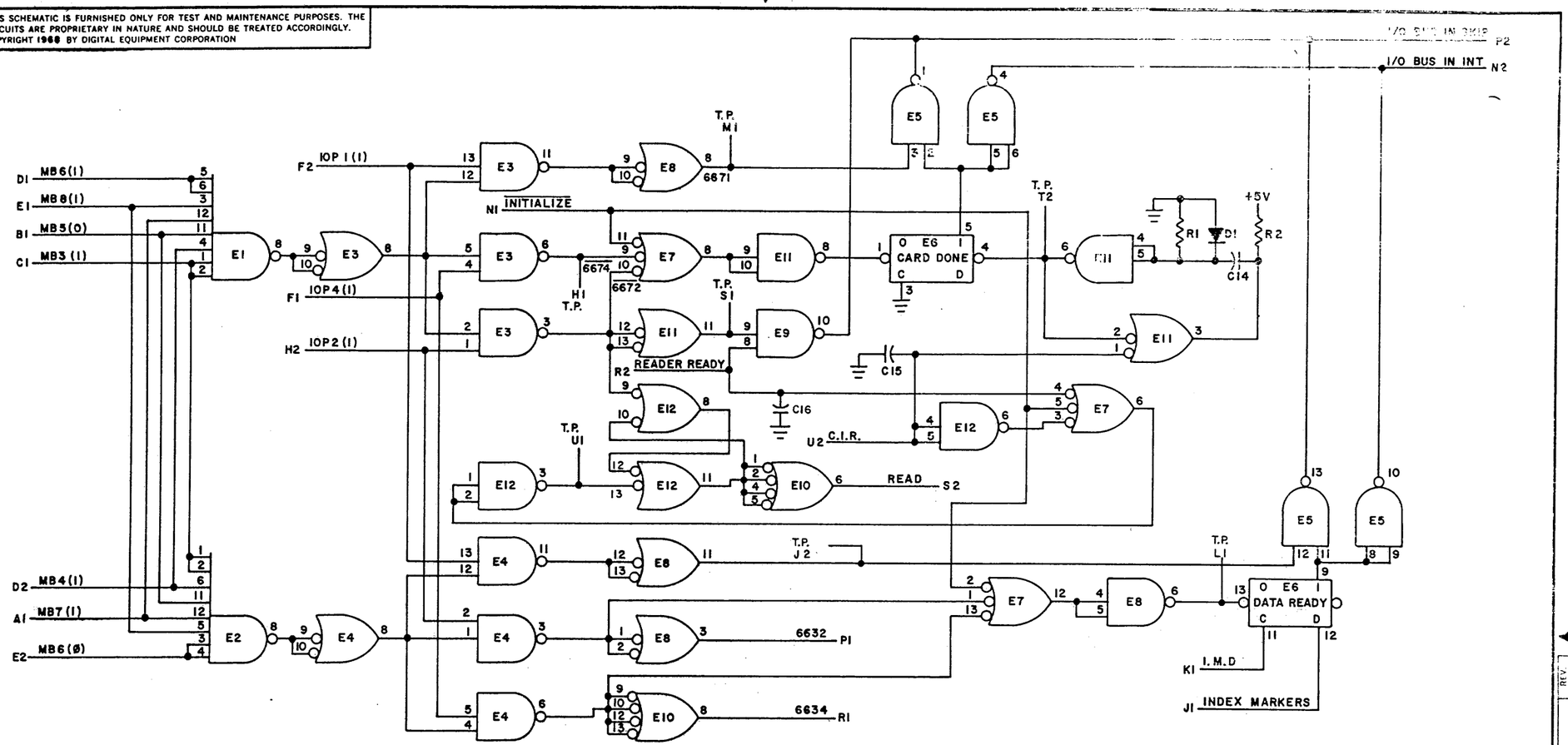

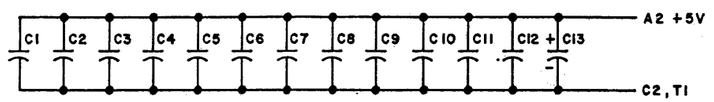

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M714-0-0
C1 THRU C12,C16	CAP. .01MFD 100V 20% DISC	1001610
C13	CAP. 6.8 MFD 35V 20% S.TANT	1000067
C14,C15	CAP. .005MFD 50V 20% D.CER.	1001765
D1	DIODE D564	1100114
E1, E2	INTEGRATED CKT. DEC7430N	1905578
R1	RES. 220 1/4W 5% CC	1300271
R2	RES. 470 1/4W 5% CC	1300316
E3,E4,E8,E11,E12	INTEGRATED CKT. DEC7400N	1905575
E5, E9	INTEGRATED CKT. DEC7401N	1905590
E6	INTEGRATED CKT. DEC7420N	1905577
E7	INTEGRATED CKT. DEC7404N	1905576
E10	INTEGRATED CKT. DEC7402N	1905579

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		

REVISIONS

REV.	CHG NO.	CHK
A	00001	

DRN. M. Waller DATE 1-27-69
CHK'D DATE 1-31-69
ENG. Hal. DATE 2/14/69
PROD. DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: CONTROL FOR CR 81 M714

SIZE	CODE	NUMBER	REV.
C	CS	M714-0-1	A

PRINTED CIRCUIT REV. B

DEC FORM NO. DRC 102

SIZE C CODE CS M714-0-1 REV. A

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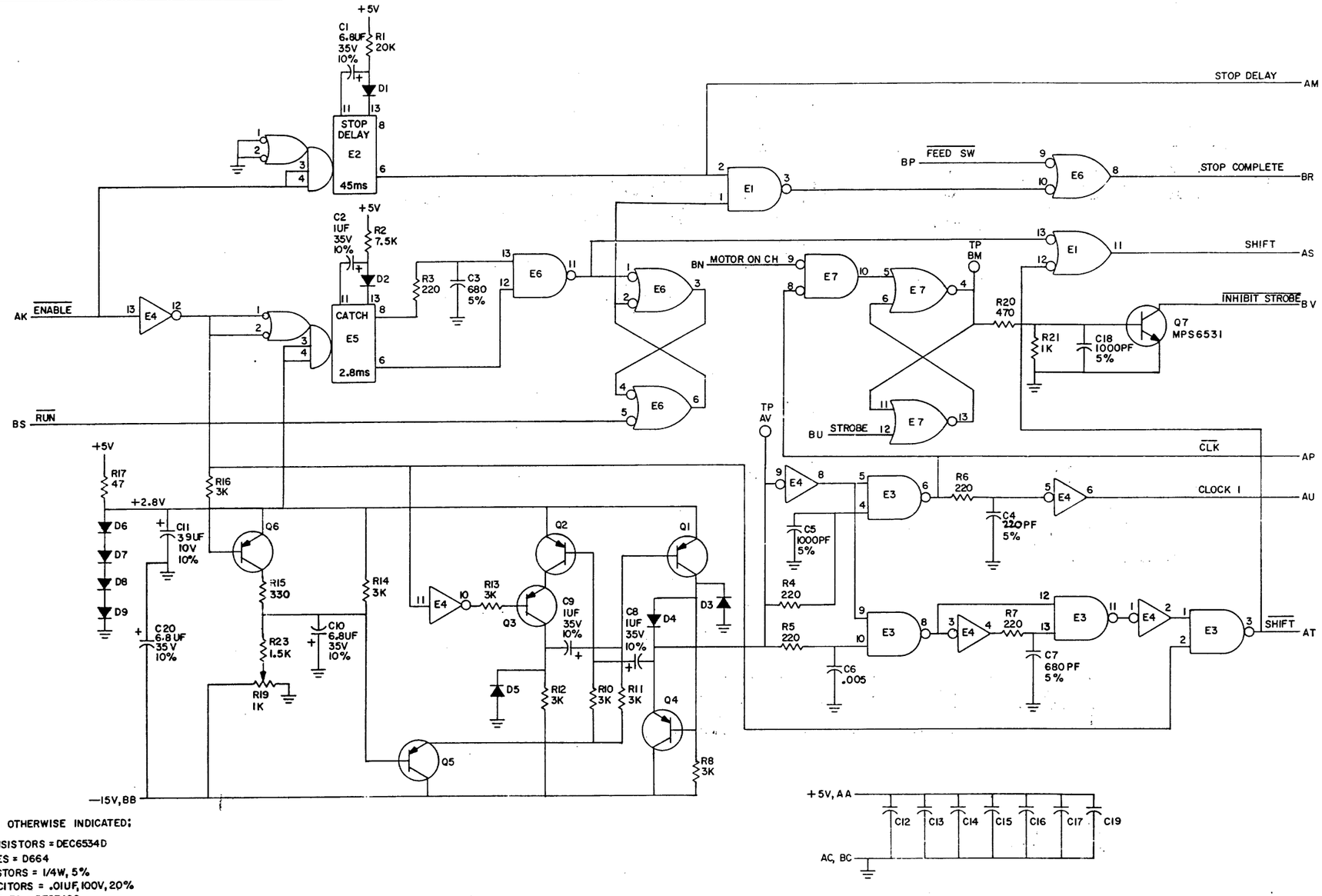

UNLESS OTHERWISE INDICATED:

TRANSISTORS = DEC6534D
DIODES = D664
RESISTORS = 1/4W, 5%
CAPACITORS = .01UF, 100V, 20%
E1, E3, E6 = DEC7400
E4 = DEC7404
E2, E5 = DEC9601
PIN 7 = GND ON ALL IC'S
PIN 14 = +5V
E7 = DEC7402

REVISIONS	CHK	CHG NO	REV
	AY	00002	E
		00006	K
REV & REDR			
& CANCELS		ECO 00005	
		00007	L
		00008	

DRN. M. HALLER	DATE 10/16/67	
CHK'D R. SILVERMAN	DATE 11/2/67	
ENG. R. G. SOGGE	DATE 11/2/67	
PROD	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534D	MPS6534	IN758	SAME
D664	IN3606		
DEC6531	MPS6531		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: READER CLOCK M715

SIZE	CODE	NUMBER	REV.
C	CS	M715-0-1	L

PRINTED CIRCUIT REV. F

SIZE CODE	NUMBER	REV.
C CS	M715-0-1	L

DEC FORM NO. DRC 102

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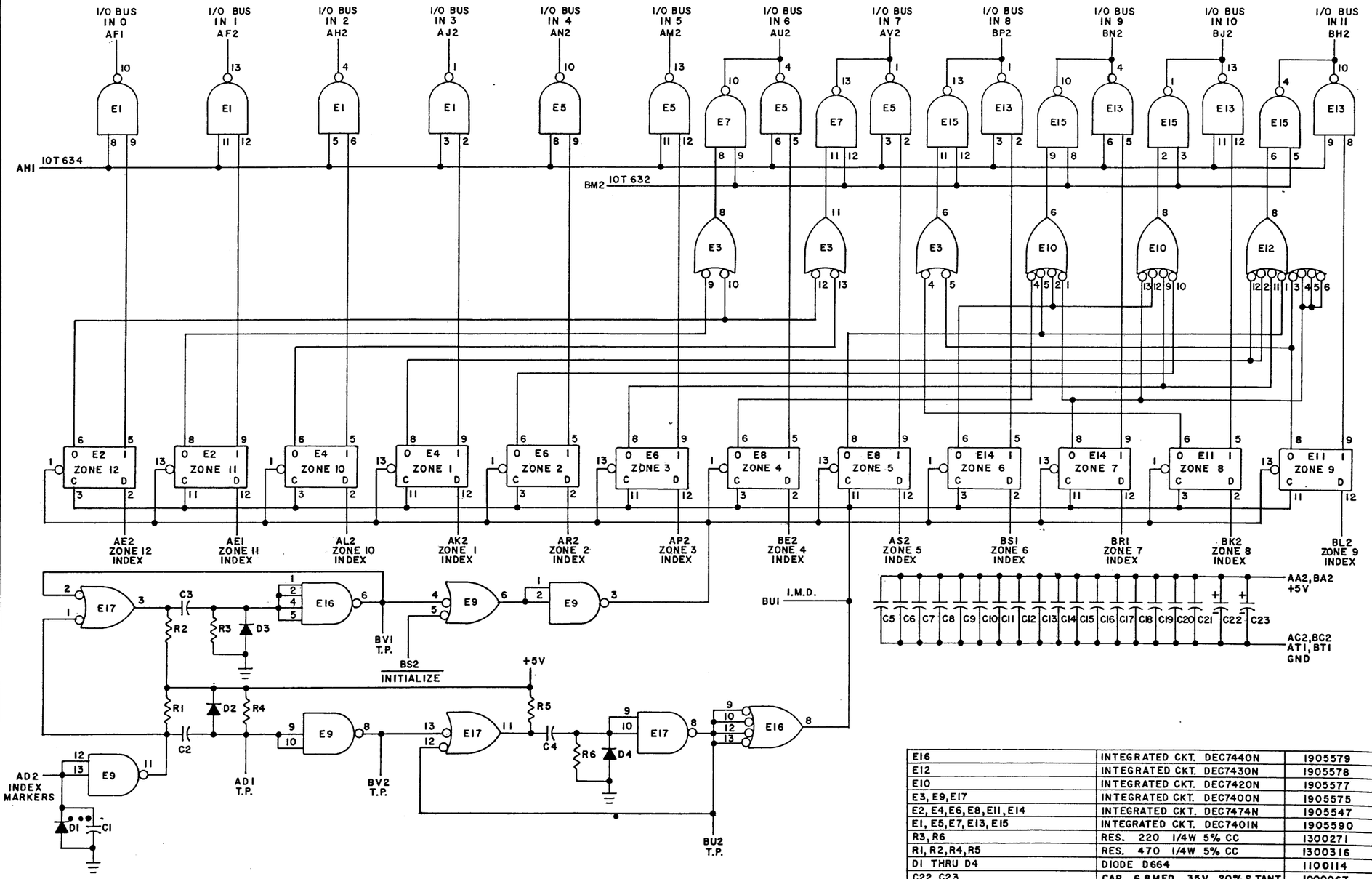

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M716-0-0
E16	INTEGRATED CKT. DEC7440N	1905579
E12	INTEGRATED CKT. DEC7430N	1905578
E10	INTEGRATED CKT. DEC7420N	1905577
E3, E9, E17	INTEGRATED CKT. DEC7400N	1905575
E2, E4, E6, E8, E11, E14	INTEGRATED CKT. DEC7474N	1905547
E1, E5, E7, E13, E15	INTEGRATED CKT. DEC7401N	1905590
R3, R6	RES. 220 1/4W 5% CC	1300271
R1, R2, R4, R5	RES. 470 1/4W 5% CC	1300316
D1 THRU D4	DIODE D664	1100114
C22, C23	CAP. 6.8MFD 35V 20% S.TANT	1000067
C3, C4	CAP. 560MMF 100V 5% D.M.	1000025
C1, C2, C5 THRU C21	CAP. .01MFD 100V 20% DISC	1001610

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	IN3606		

REVISIONS			
CHK	CHG NO.	REV.	
[illegible]	00001	A	

DRN. M. Keller	DATE	12-9-68
CHK'D [signature]	DATE	12-9-68
ENG. [signature]	DATE	2/27/69
PROD.	DATE	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: CONTROL FOR CR 81 M716

SIZE	CODE	NUMBER	REV.
C	CS	M716-0-1	A

PRINTED CIRCUIT REV. A

DEC FORM NO. DRC 102

SIZE	CODE	NUMBER	REV.
C	CS	M716-0-1	A

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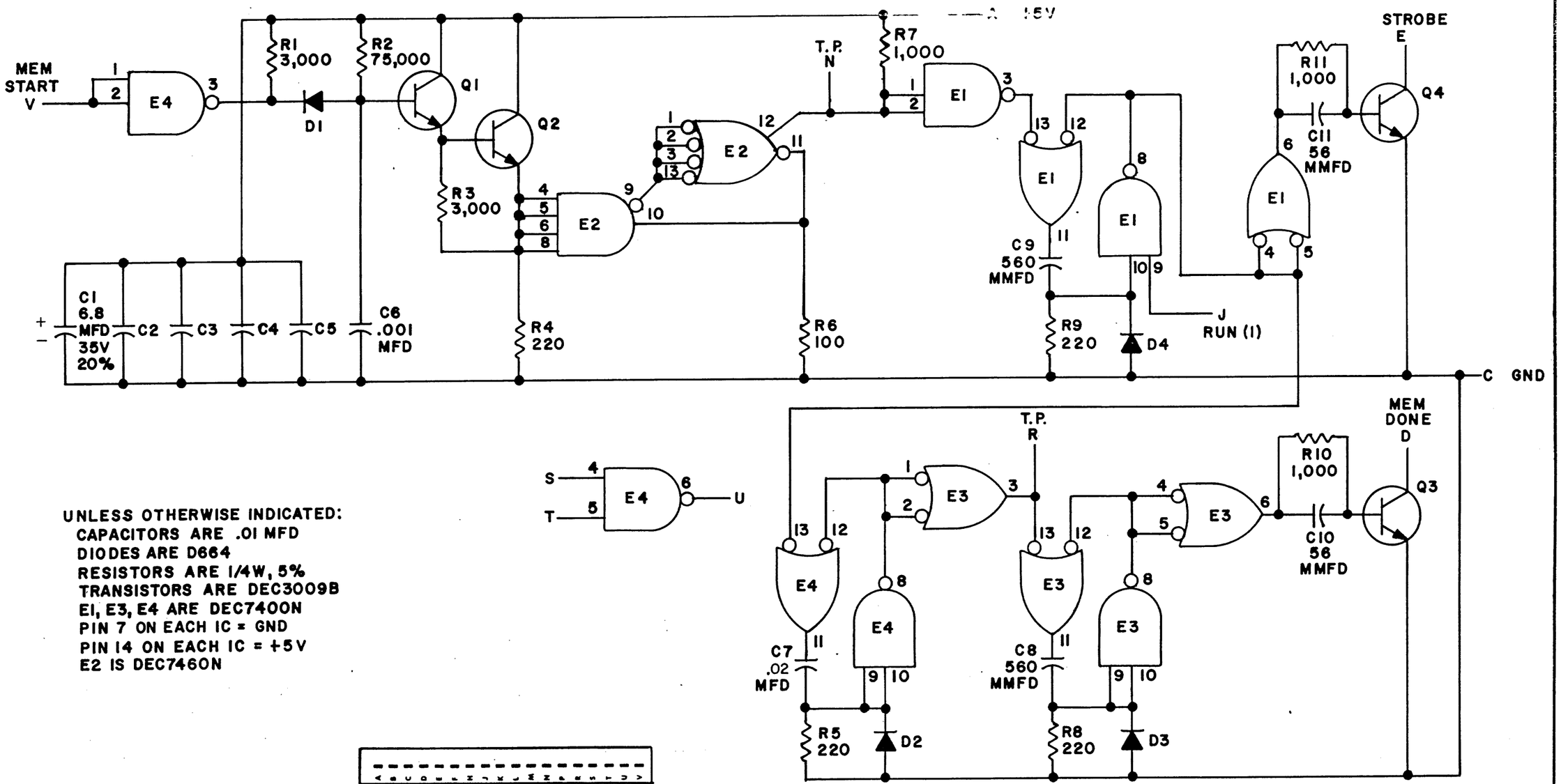

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01 MFD
DIODES ARE D664
RESISTORS ARE 1/4W, 5%
TRANSISTORS ARE DEC3009B
E1, E3, E4 ARE DEC7400N
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
E2 IS DEC7460N

REVISIONS		
REV.	CHG NO.	CHK
A	00001	

DRN. M. Waller	DATE 9-28-67	
CHK'D	DATE 9/29/67	
ENG.	DATE	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: MEMORY DETECTION M720

SIZE	CODE	NUMBER	REV.
B	CS	M720-0-1	A

PRINTED CIRCUIT REV. A

DIST. 32, 434, 435 PINK

DEC FORM NO.
DRB 102

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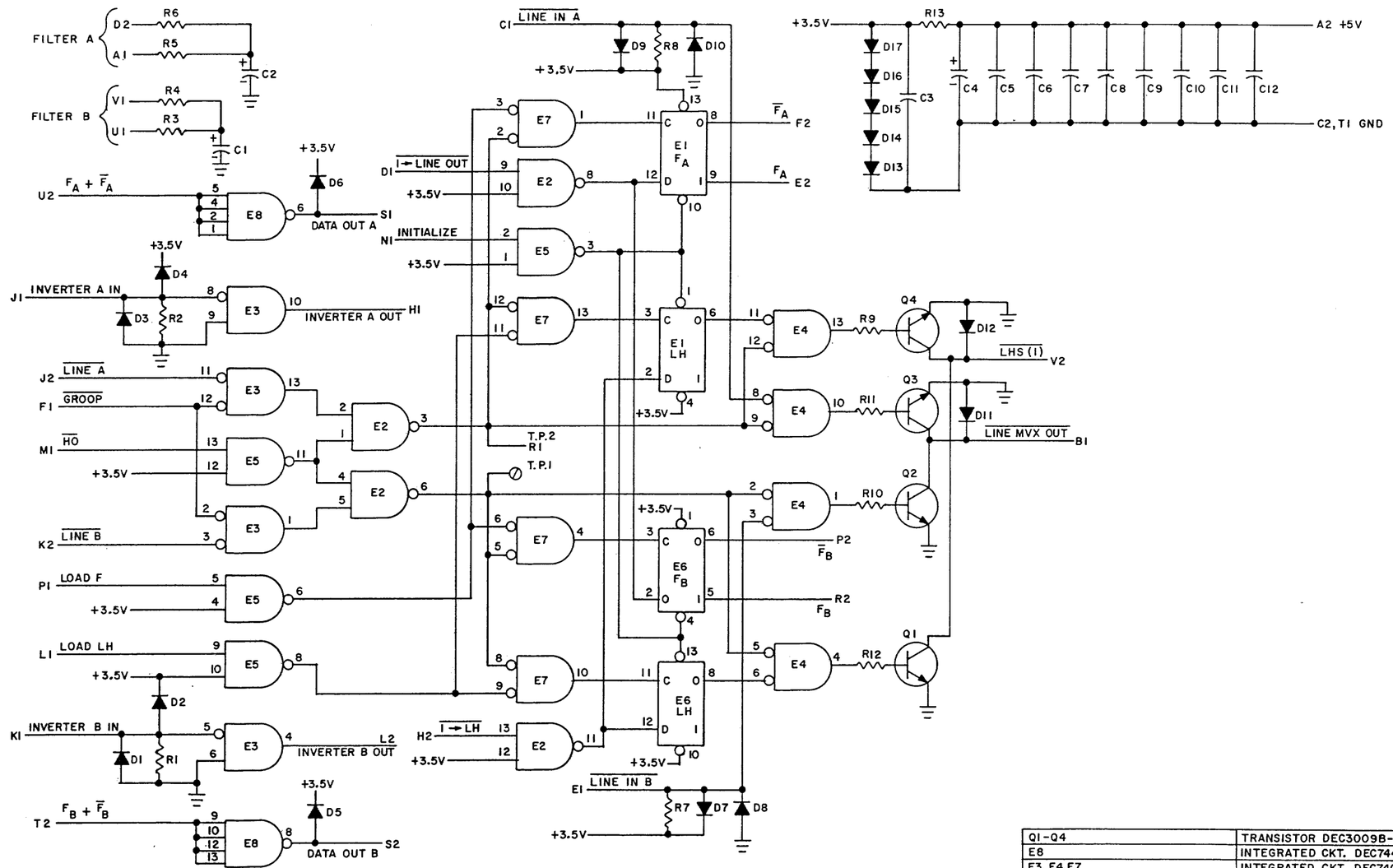

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
∅ = SPLIT LUG

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M750-0-0
C1, C2, C4	CAP. 6.8MFD 35V 20% S.TANT	1000067
C3, C5–C12	CAP. .01MFD 100V 20% DISC	1001610
D1 – D12	DIODE D664	1100114
D13–D17	DIODE D662	1100113
R1, R2, R9–R12	RES. 390 1/4W 5% CC	1300309
R3, R5	RES. 82 1/4W 10% CC	1300224
R4, R6	RES. 100 1/4W 10% CC	1300231
R7, R8	RES. 1.5K 1/4W 5% CC	1300391
R13	RES. 220 1/4W 5% CC	1300271
E8	INTEGRATED CKT. DEC7440N	1905579
E3, E4, E7	INTEGRATED CKT. DEC7402N	1909004
E2, E5	INTEGRATED CKT. DEC74H00N	1909056
E1, E6	INTEGRATED CKT. DEC7474N	1905547
Q1–Q4	TRANSISTOR DEC3009B-S	1503100

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		

REVISIONS			
CHK	CHG NO.	REV.	
	00001	A	
	00002		C
	00003		

DRN. M. Keller DATE 10-30-68
CHK'D DATE 11-1-68
ENG. DATE 11-17-68
PROP. DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: LINE I/O CONTROL M750

SIZE	CODE	NUMBER	REV.
C	CS	M750-0-1	C

PRINTED CIRCUIT REV. C

DEC FORM NO. DRC 102

REV. C | NUMBER M750-0-1 | CODE CS | SIZE C

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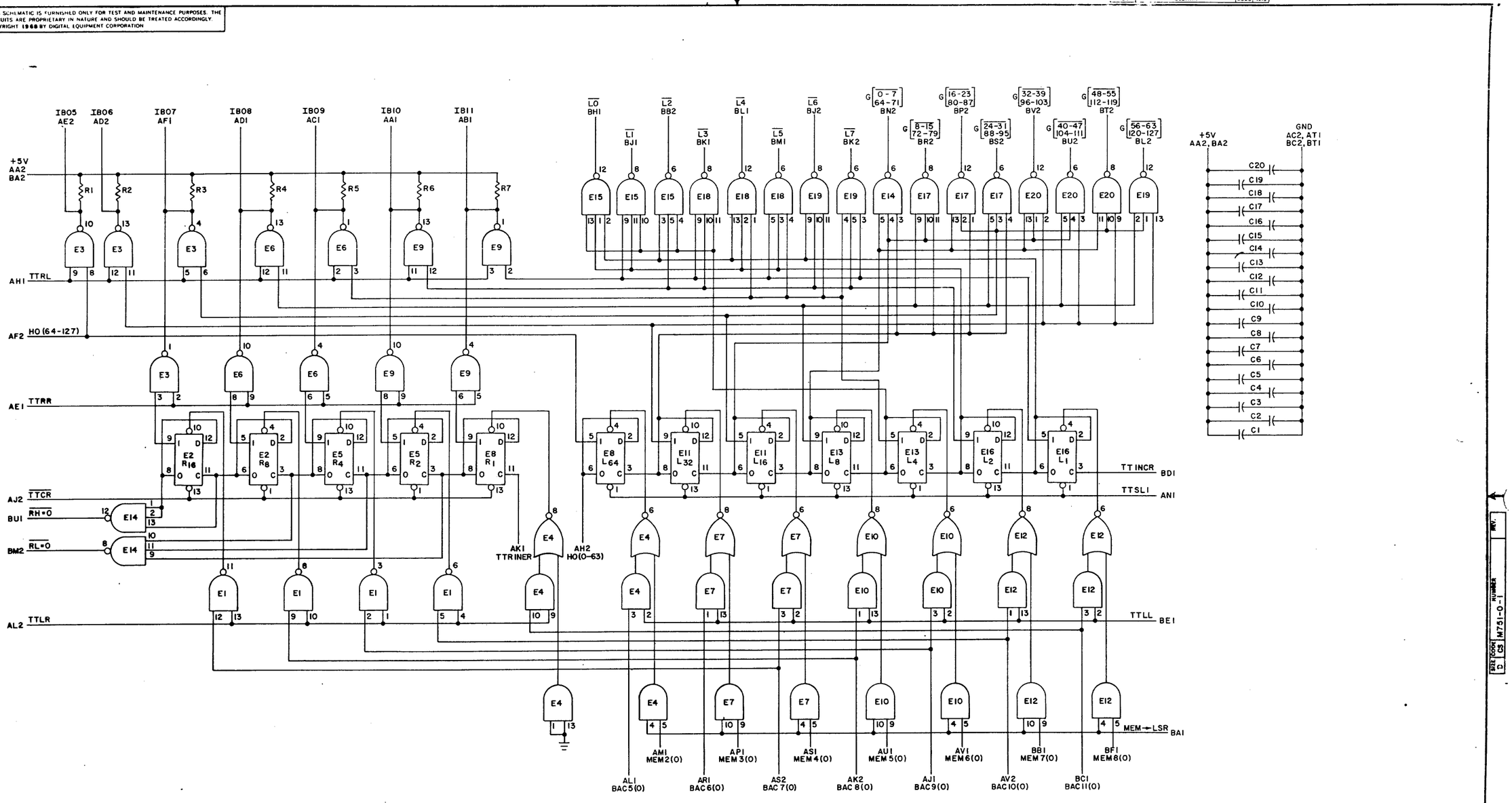

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M751-0-0
C1-C20	CAP. .01MFD 100V 20% DISC	1001610
R1-R7	RES. 1.5K 1/4W 5% CC	1300391
E1	INTEGRATED CKT. DEC7400N	1905575
E2,E5,E8,E11,E13,E16	INTEGRATED CKT. DEC7474N	1905547
E3,E6,E9	INTEGRATED CKT. DEC7401N	1905590
E4,E7,E10,E12	INTEGRATED CKT. DEC74H50N	1909060
E14,E15,E17,-E20	INTEGRATED CKT. DEC74H10N	1909057

PARTS LIST

REVISIONS

CHK	CHG NO.	REV.

DRN. W. Walker DATE 11-13-68
CHK'D W. McClure DATE 11-18-68
ENG. DATE
PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: LINE REGISTER AND CONTROL M751

SIZE	CODE	NUMBER	REV.
D	CS	M751-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO. DRD 101

SIZE D | CODE CS | M751-0-1 | REV.

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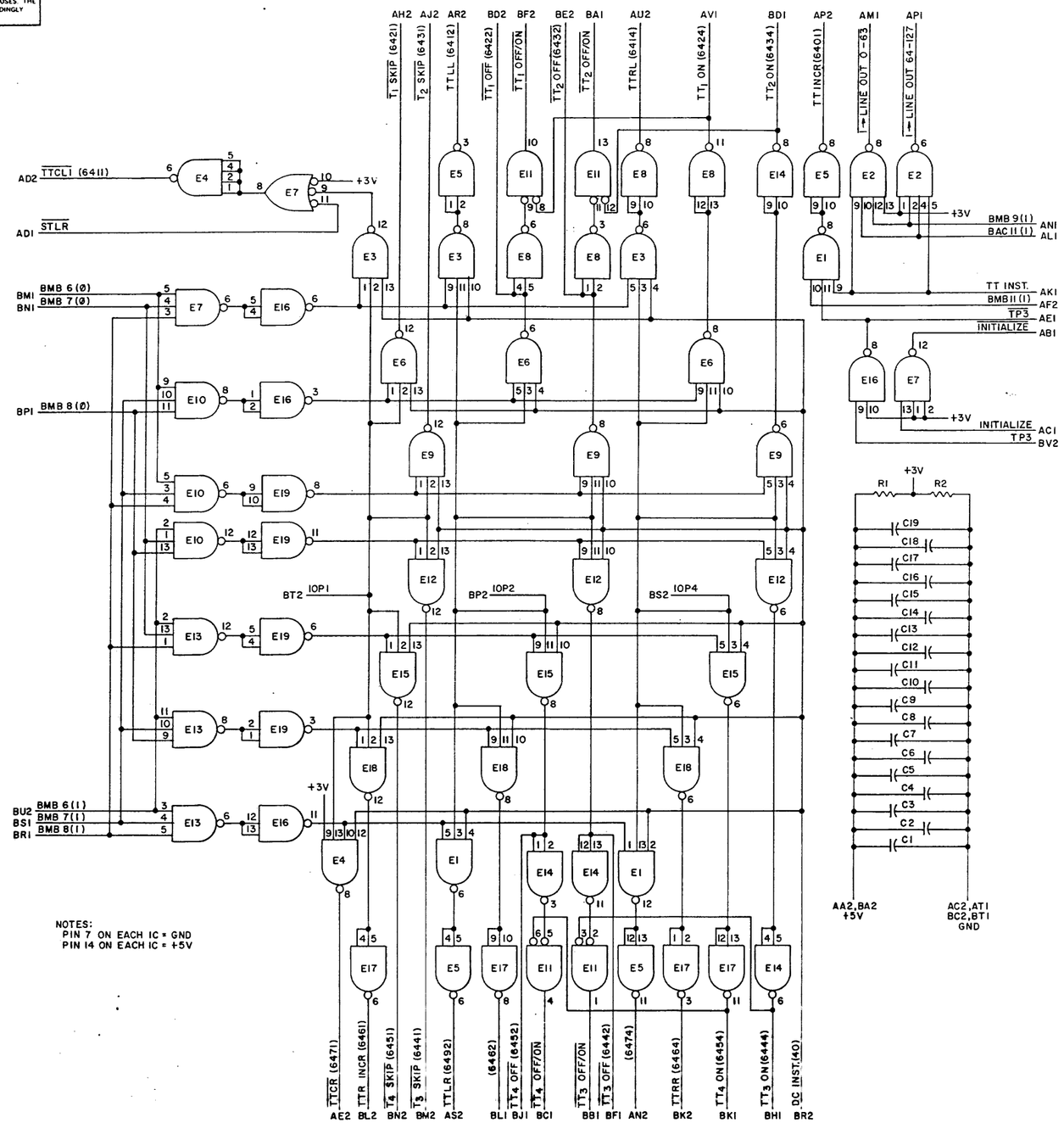

NOTES:
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-M752-0-0
C1 - C19	CAP. .01 MFD 100V 20% DISC	1001610
R1	RES. 330 1/4W 5% CC	1300295
R2	RES. 750 1/4W 5% CC	1301401
E1, E3, E6, E7, E9, E10, E12, E13, E15, E18	INTEGRATED CKT. DEC7410N	1905576
E4	INTEGRATED CKT. DEC7440N	1905579
E2	INTEGRATED CKT. DEC74H40N	1905586
E5, E8, E14, E16, E17, E19	INTEGRATED CKT. DEC7400N	1905575
E11	INTEGRATED CKT. DEC7402N	1909004

PARTS LIST

REVISIONS			
CHK	CHG NO	REV.	

DRN.	M. Waller	DATE 11-4-68
CHK'D	M. Waller	DATE 11-7-68
ENG.		DATE
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: INSTRUCTION DECODER M752

SIZE	CODE	NUMBER	REV.
D	CS	M752-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO. DRD 101

SIZE D | CODE CS | NUMBER M752-0-1 | REV.

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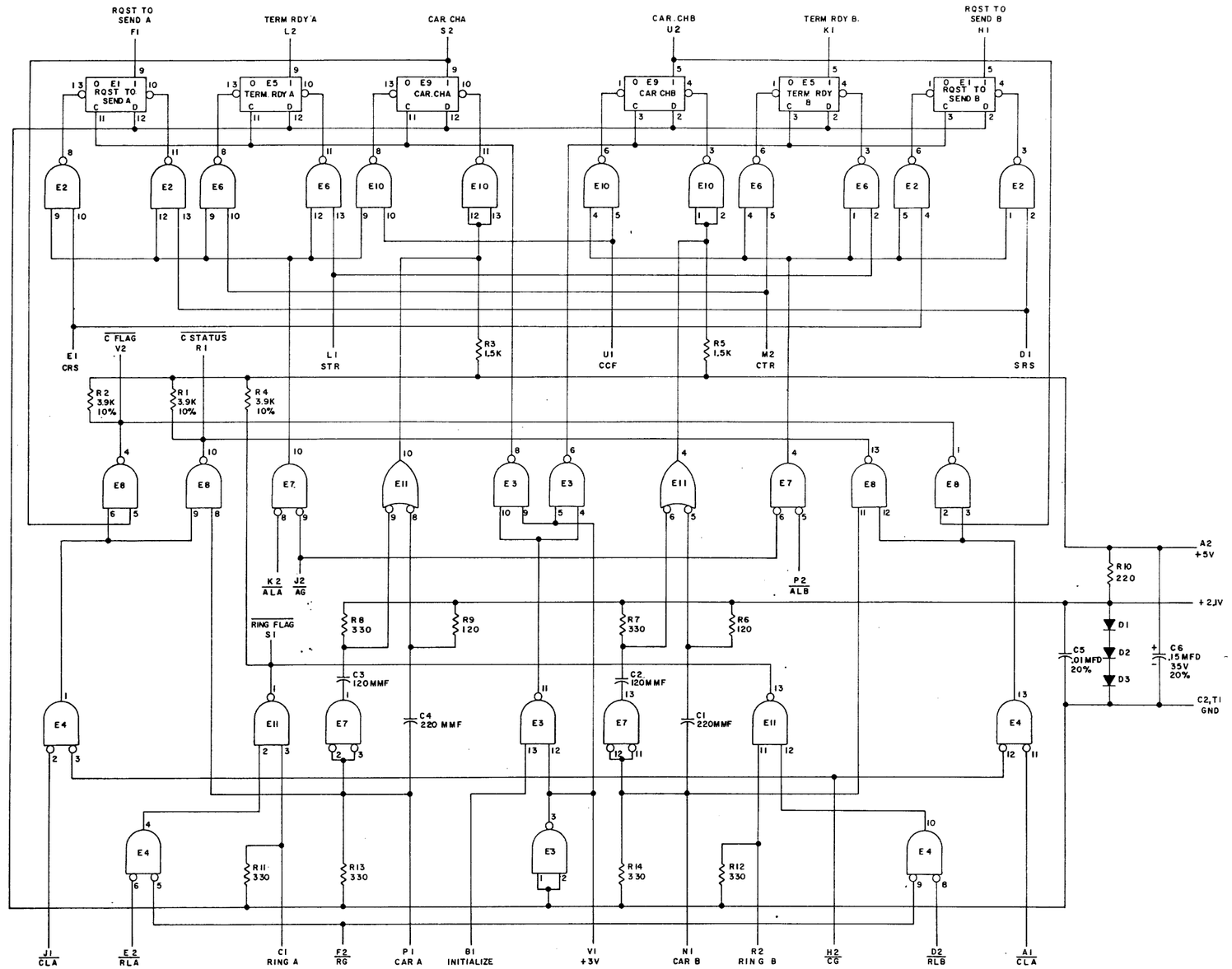

UNLES OTHERWISE INDICATED
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V
E1, E5, E9 ARE DEC7474N

E4, E7, ARE DEC7402N
E8, E11 ARE DEC 7401N
E2, E3, E6, E10 ARE DEC7400N
DIODES ARE D662
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE 100V 5%

REVISIONS		
CHR	CHG NO	REV
AK	10001	C

DRN		DATE 12-19-79
CHKD		DATE 5/24/79
ENG.		DATE 7-1
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: ASYNC MODEM LINE CONTROL M753

SIZE	CODE	NUMBER	REV.
D	CS	M753-0-1	C

PRINTED CIRCUIT REV. B

DEC FORM NO. DRD 101

1ST 324, 434, 435 ? SINK

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AH1 BWD0 R1 4.7K 10% C14 220PF 5% D1 D5
−15V BB2 R27 1K D20 C24 1UF 35V 10% C23 D19 1N746A
AJ1 BWD1 R2 4.7K 10% C15 220PF 5% D2 D6
AF1 BWDP R3 4.7K 10% C16 220PF 5% D3 D7
AE1 BWD2 R4 4.7K 10% C17 220PF 5% D4 D8
AP1 LRCC STROBE H
AR2 V CLAMP
AU1 C STROBE

E2 R5 1K, R6 1K, R7 1K, R8 1K
E4
E10

E1: WB0H AK2, WB0L AL2, WB1H AM2, WB1L AN2
E3: WBPH AE2, WBPL AF2, WB2H AS2, WB2L AT2

E13 CLEAR
SW0 SW1 SW2 SW3 SW4 SW5 SW6 SW7
R9 R10 R11 R12 R13 R14 R15 R16 +5V
BV2 CLR4H, BR1 CLR3H, BS1 CLR2H, BU1 CLR1H
CLR5H BN1, CLR6H BU2, CLR7H BD1, CLR8H BJ1
SWP

AU2 WB3H, AV2 WB3L → E5
BE2 WB4H, BF2 WB4H → E5
BJ2 WB5H, BK2 WB5L → E7
BM2 WB6H, BN2 WB6L → E7
BR2 WB7H, BS2 WB7L → E9

E6 R17 1K, E6 R18 1K, E8 R19 1K, E8 R20 1K, E10 R21 1K

C18 220PF 5% D9 D14 — R22 4.7K 10% BWD3 AK1
C19 220PF 5% D10 D15 — R23 4.7K 10% BWD4 AD1
C20 220PF 5% D11 D16 — R24 4.7K 10% BWD5 AJ2
C21 220PF 5% D12 D17 — R25 4.7K 10% BWD6 AH2
C22 220PF 5% D13 D18 — R26 4.7K 10% BWD7 AD2

WB CLEAR L BL1
SELECT REMOTE H BM1
E11
E12
CLOCK L BK1
E9 WB SET ENBL H AP2
WRITE STROBE H BP1
+5V AA2, BA2
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 AC2, AT1, BC2, BT1

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 680, 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
DIODES ARE D664
SWITCHES ARE 1210042
DEC 7473 = E1, E3, E5, E7, E9
DEC 6380 = E2, E4, E6, E8, E10
DEC 7474 = E12
DEC 74164 = E13
DEC 7400 = E11

PIN 4 = +5V
PIN 11 = GND ON DEC 7473

PIN 1 = GND
PIN 8 = +5V ON DEC 6380

PIN 7 = GND
PIN 14 = +5V ON DEC 7474, DEC74164, DEC 7400

REVISIONS	CHK	CHG NO.	REV.
3 MOVED E13		20007	C
4 ADDED E12		20002	D

DRN C. Smith 8/21/70
DSGD C. Gilday 11/24/70
ENG M. Segarra 11/24/70
PROD K. Stevens 5/5/71

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN2606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: WRITE BUFFER M763
SIZE D | CODE CS | NUMBER M763-0-1 | REV. E
PRINTED CIRCUIT REV. D

DEC Fiche No. 000 116.

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TPP AL2 · AP2 · TPØ AN2 · AR2 · TPI AS2 · RBI · TP2 BAI · BCI · TP3 BD2 · BK2 · TP4 BJ2 · BL2 · BM2 · BR2 · TP6 BUI · BS2 · TP7 BT2

AK2

E11 · E1 · E5 · E9 · E14 · E13 · E16

AC2,AT1
GND
BC2,BT1

GND

+5V

E2 · E4 · E6 · E7 · E8 · E10 · E12 · E15 · E17

SP · SC · S1 · S2 · S3 · S4 · S5 · S6 · S7

SA · SB · CP · CLR

AF2 · AM2 · AT2 · AU2 · BF2 · BH2 · BN2 · BP2 · BU2

R2 1K

SHIFT ENABLE H — BV2

AA2
+5V
BA2

BE2 — CLOCK L

AH2 — CLEAR H

R1 1K

E3 — START SKEW DELAY L — AJ2

BUFFER CLEAR L — AV2

-5V

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17

GND

R3 330

R4 750

C18

WINDOW E1

AVI — DELAY STROBE L

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01MFD,100V,20%
E1,E5,E9,E13,E16 ARE DEC7474N
E2,E4,E6,E7,E8,E10,E12,E15, E17 ARE DM8570
E3 IS DEC7400N
E11, E14 ARE DEC7405N
PIN 7 ON EACH IC=GND
PIN 14 ON EACH IC=+5V
SWITCHES ARE SPECTROL 1210042-0

REVISIONS | REV | CHG NO | CHK
A

DRN B. Allen — DATE 12-3-68
CHK'D — DATE
ENG H. Mirandette — DATE 7/5/70
PROD — DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	E-A	DEC	E-A

EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE: READ BUFFER M7[illegible]

SIZE	CODE	NUMBER	REV
C	CS	M765-0[illegible]	A

PRINTED CIRCUIT REV A

NUMBER M765-0-1 · SIZE C · CODE CS · REV A

DEC FORM NO.
DRC 102

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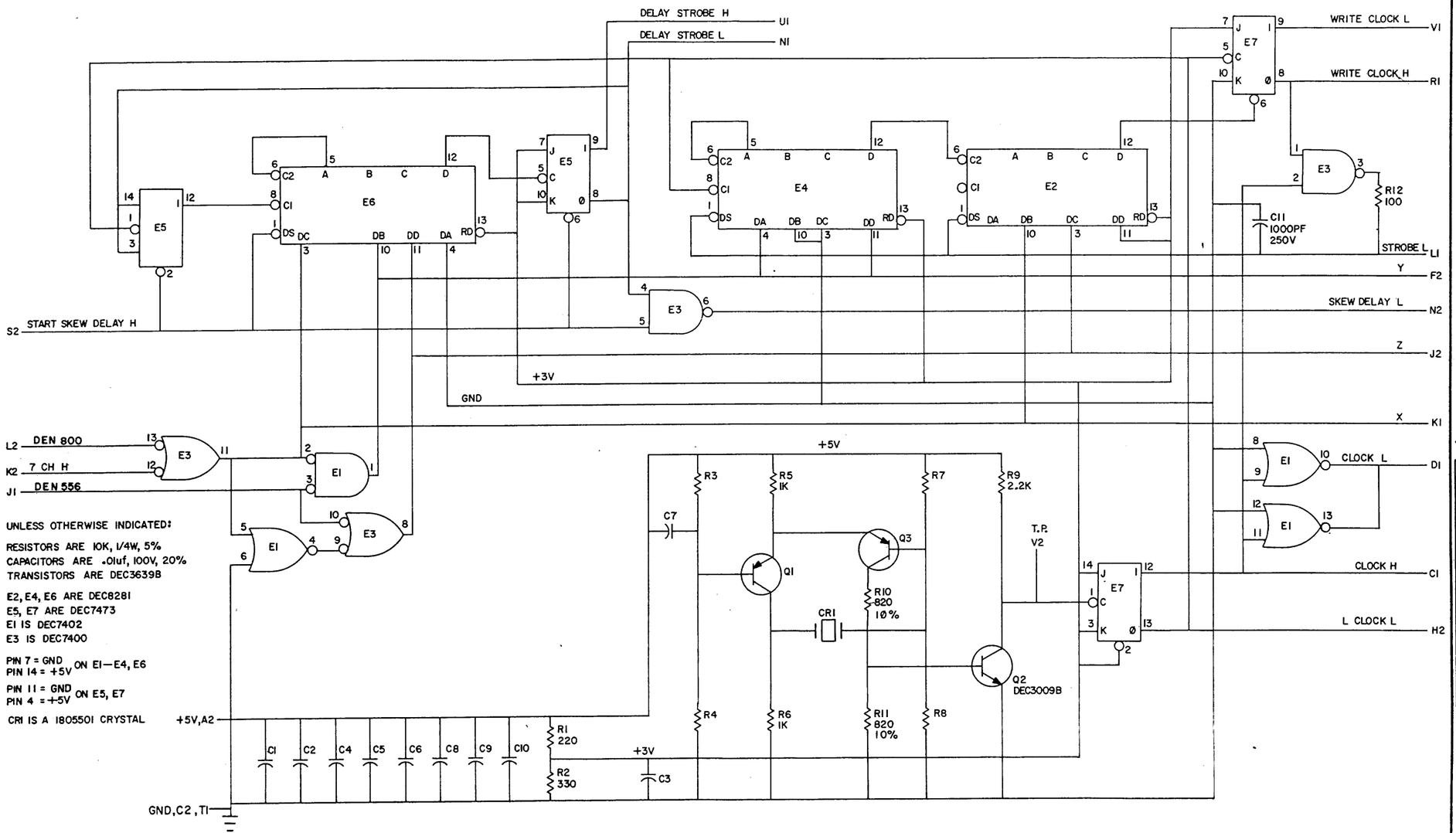

UNLESS OTHERWISE INDICATED:

RESISTORS ARE 10K, 1/4W, 5%
CAPACITORS ARE .01uf, 100V, 20%
TRANSISTORS ARE DEC3639B

E2, E4, E6 ARE DEC8281
E5, E7 ARE DEC7473
E1 IS DEC7402
E3 IS DEC7400

PIN 7 = GND
PIN 14 = +5V ON E1—E4, E6

PIN 11 = GND
PIN 4 = +5V ON E5, E7

CR1 IS A 1805501 CRYSTAL

REVISIONS			
CHK	CHG NO.	REV.	
RP	00001	A	
[illegible]	00002	B	
DW	00003	C	

DRN. NANCY MOORE	DATE 7/23/70	
CHK'D. R Wilder	DATE 7-9-70	
ENG. [illegible]	DATE 7-15-70	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009B		
DEC3639B	2N3639B		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE CLOCK AND SKEW DELAY M767

SIZE	CODE	NUMBER	REV.
C	CS	M767 -0-1	C

PRINTED CIRCUIT REV. A C

DEC FORM NO. DRC 102

DIST. 324,434,435

REV. C | NUMBER M767 -0-1 | SIZE C | CODE CS

177

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AF1 RD 2 — X2 — E2 — R1 1.2K, D1, R21 1.8K, R62 8.2K, Q1 — BRD2 H * BC1

AH1 RD 3 — X3 — E2 — R2 1.2K, D2, R22 1.8K, R63 8.2K, Q2 — BRD3H * BD1

AJ1 RD 4 — X4 — E2 — R3 1.2K, D3, R19 1.8K, R60 8.2K, Q3 — BRD4 H * BM2

AK1 RD 5 — X5 — E2 — R4 1.2K, D4, R20 1.8K, R61 8.2K, Q4 — BRD5 H * BB1

AL1 RD 6 — X6 — E3 — R5 1.2K, D5, R24 1.8K, R65 8.2K, Q5 — BRD6 H * BF1

AN1 RD 7 — X7 — E3 — R6 1.2K, D6, R23 1.8K, R64 8.2K, Q6 — BRD7 H * BN2

AP1 RD P — XP — E3 — R7 1.2K, D7, R26 1.8K, R67 8.2K, Q7 — BRD P H * BJ1

AR1 RD 1 — X1 — E3 — R8 1.2K, D8, R25 1.8K, R66 8.2K, Q8 — BRD 1 H * BP2

AS1 RD 0 — X0 — E4 — R9 1.2K, D9, R27 1.8K, R68 8.2K, Q9 — BRD0 H * BR2

All resistors -15V

ACI SELECT REMOTE L — pin 2 D
AAI FORWARD(Ø) H — pin 1 C
ABI WRITE ENABLE(0)H — pin 14 B
pin 15 A

E1 DEC 8251 — outputs 9, 8, 7, 6, 5, 4, 10, 11, 12, 1, 13, Ø

R10 1.2K … R18 1.2K

	X2	X3	X4	X5	X6	X7	XP	X1	X0
REV STOP L BF2	D28	D29	D30	D31	D32	D33	D34	D35	
FOR RD STOP L BD2	D11	D12	D13	D14	D15	D16	D17	D18	
FOR WR STOP L BE2	D19	D20	D21	D22	D23	D24	D25	D26	
FOR WD START L BL2	D36	D37	D38	D39	D40	D41	D42	D43	
REV START L AD1	D27								
FOR RD START L AE2	D10								

BT2 CLOCK L — E6 DEC8281 (C2, C1, RD, DS; A B C D; DA DB DC DD)

E4 — C800 L BH2 — R44 3K +5V — R40 10K +5V — R29 1.8K — BC800 H * BS2 — Q19 — R37 8.2K -15V

+5V AA2,BA2 — E1 E2 E3 E4 E5 E6 — +5V
GND ATI,AC2,BC2 BTI — C1 C2 C3 C4 C5 C6 — GND

BLI TRANSPORT SETTLING DOWN L — D46 — R47 3K +5V — E5 — R33 1.8K — BSDWN H * BS1 — Q14 — R43 8.2K -15V

BHI DELAY STROBE L — D45 — R46 3K +5V — E5 — R32 1.8K — BSKEW H * BP1 — Q15 — R42 8.2K -15V

BRI WRITE CLOCK L — D48 — R49 3K +5V — E5 — R30 1.8K — BWRC H * BM1 — Q16 — R36 8.2K -15V

BUI WRITE LOCK L — D47 — R48 3K +5V — E5 — R31 1.8K — BWRL H * BN1 — Q17 — R41 8.2K -15V

AD2 MUX OUT L

BK2 SELECT REMOTE H — +5V — R54 1.2K — Q11 — R53 1.2K — R52 220 — BEMD L — R55 2.7K — BV2 — Q10 DEC3009B

D49 — Q12 — R38 1.2K — READ OUT L AF2 — R51 1.2K — R50 220

DELAY OUT L AH2

BEI READY L — D44 — E4 — R28 1.8K — BTUR H * BK1 — Q18 — R34 8.2K -15V — R45 3K +5V

+5V — R39 2.7K — START/STOP L BJ2 — D53 D003 — C7 — D50 D51 D52 — T.P.-2.4V BV1 — R56 560 -15V

BU2 BALFA — R57 2.7K — Q13 DEC3009B — R58 330

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
TRANSISTORS ARE DEC65348
DIODES ARE D664
CAPACITORS ARE .01UF, 100V, 20%
IC'S ARE SP384

NOTE:
* NEGATIVE LOGIC SIGNALS
EG. L = —3V
H = 0V

REVISIONS			
CHG NO	DATE	BY	
10001	10/1/73	D	
00002	10/1/73	E	
00003	11/1/73	E	
			N. MILLER 8-1-74
			MOSEANSTERN

DRN	J. COOPER	DATE 10/1/73
CHK'D		DATE
ENG	M. McGauvran	DATE 10/1/73
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606	DEC36398	NONE
D003	IN994	DEC30098	2N3009 B
DEL=394B	MPS6532-1		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: DELAY TRANSMITTER M768

SIZE	CODE	NUMBER	REV
D	CS	M768-0-1	F

PRINTED CIRCUIT REV E

DEC FORM NO. 9981 116

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RB CLEAR H BDI
REWIND STATUS L BR2
INIT L BJI
FORWARD H AR2
START L BMI
STOP PULSE H BJ2
START PULSE H BN2
FORWARD L BE2
MOTION H BBI
REVERSE L BL2
LOCAL H BEI
LOCAL L BF2
LINE SW CL L BP2
LED C ADI
W B CLEAR L AU2
EOT L API
REVERSE H BM2
BOT H BK2
REWIND STATUS H AVI
BOT L AAI
WRITE LOCK H AN2
EOT H AL2

R1 47 1/2W 5%
R2 1.2K
R3 1.2K
R4 10K
R5 390
R6 1.2K
R7 1.2K
R8 1.2K
R9 1.8K
R10 56K 5%
R11 1.2K
R12 1.8K
R13 56K 5%
R14 10K
R15 6.8K
R16 6.8K
R17 4.7K
R18 4.7K
R19 680
R20 10K
C21 220PF 5%
C22 100PF 5%
C23 .005UF
C24 .005UF
C17 3.9UF 10V 10%
C18 3.9UF 10V 10%
C19 3.9UF 10V 10%
C20 3.9UF 10V 10%
D1
D2
D3
D4
D5
Q1
Q2
+5V
AB2 −15V
−15V

BRI START/STOP L
BV2 CLEAR FUNCTION L
BD2 VACUUM ON H
AP2 END POINT H
AV2 SELECT REMOTE H
BH2 STOP L
BCI OFF LINE L
BS2 ON LINE L
ARI RUNNING L
AUI WRITE ENABLE H
AH2 PCLR L
ASI WRITE ENABLE L
AM2 END POINT L
BUI R REV H
BT2 M REV L
BVI R FWD H
BSI M FWD L
AFI SET PULSE L
BNI M REW L
BFI R WRL H
AJ2 R REW H
AK2 R WRE H
AEI WRITE LOCK L
ACI BOT EMIT;
ABI EOT EMIT;

UNLESS OTHERWISE INDICATED:
RESISTORS = 1/4W, 10%
CAPACITORS = .01UF, 100V, 20%
DIODES = D003
TRANSISTORS = DEC2639B
DEC 7474 = E6, E12, E13
DEC 7400 = E4, E7, E14
DEC 7410 = E8, E10
DEC 7420 = E1, E9
DEC 7450 = E16
DEC 7402 = E2, E11
DEC 384 = E3
DEC 7404 = E5, E15

PIN 7 = GND ON ALL IC'S
PIN 14 = +5V

PIN 1 = GND ON E3
PIN 8 = +5V

+5V, AA2, BA2 — C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 — AC2, AT1, BC2, BT1

REVISIONS				
CHG	CHG NO	REV		
1	00001	F		
2	00002	H	MORGANSTERN	

DRN NANCY MOORE DATE 11/9/71
CHK'D DATE 1/5/71
ENG DATE 1/12/71
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D003	IN994		
DEC2639B	NONE		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: FUNCTION CONTROL M769

SIZE	CODE	NUMBER	REV
D	CS	M769-0-1	H

PRINTED CIRCUIT REV J

DEC FORM NO. D68 116

REV H | NUMBER M769-0-1 | SIZE CODE D CS

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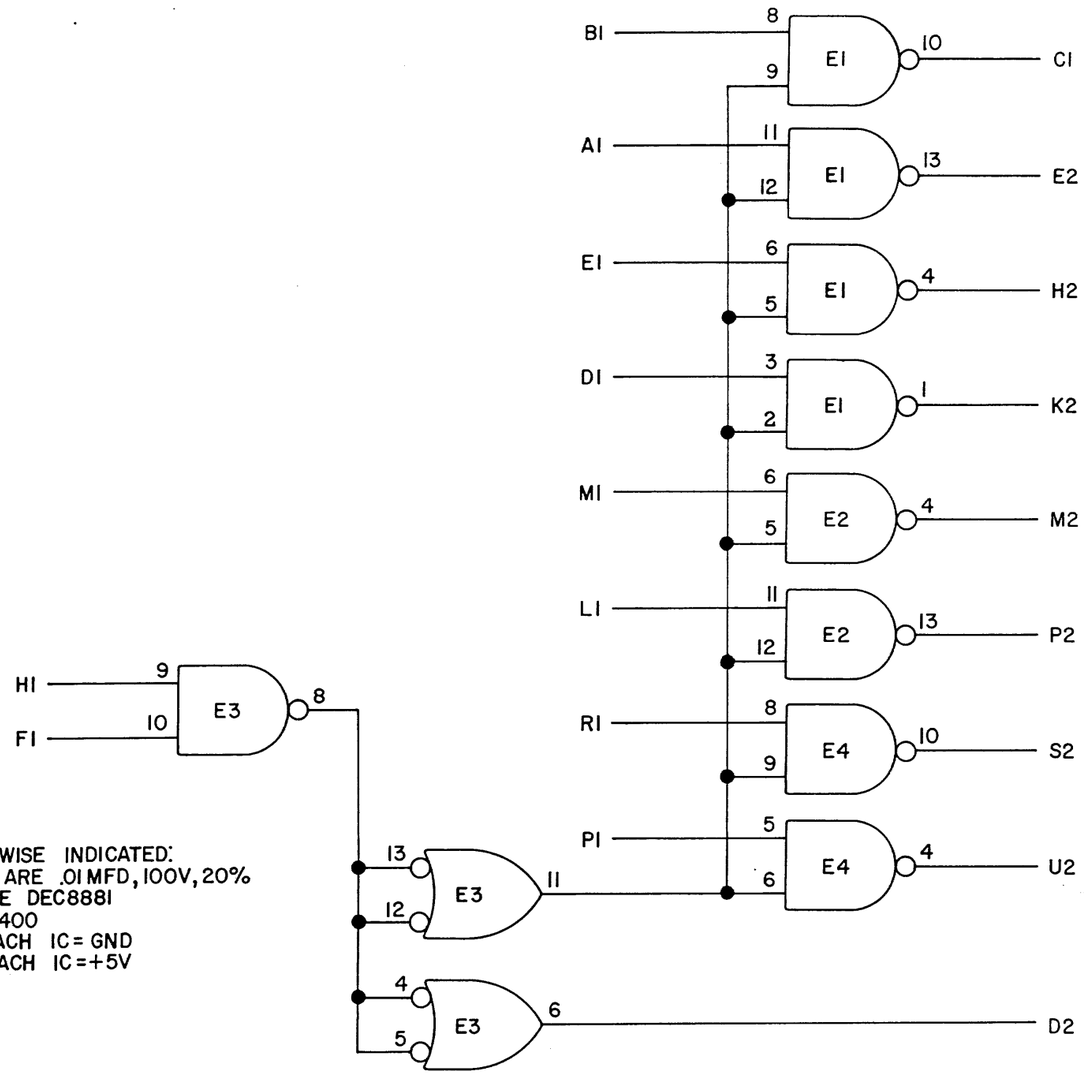
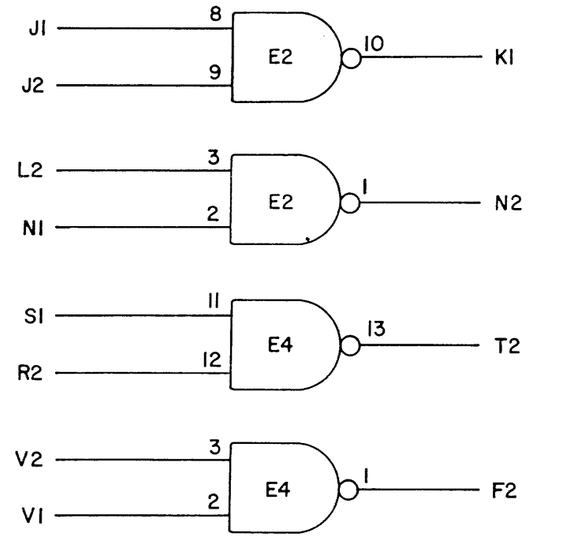
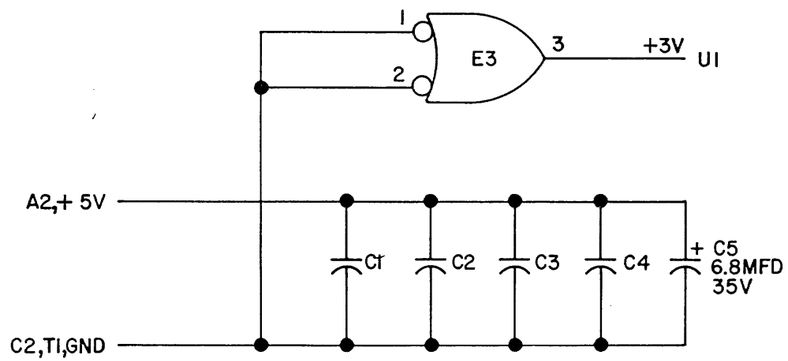


UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01 MFD, 100V, 20%
E1,E2,E4 ARE DEC8881
E3 IS DEC7400
PIN 7 ON EACH IC = GND
PIN 14 ON EACH IC = +5V





REVISIONS					
REV.	CHG NO.	CHK	DRN. A. Riley	DATE 11-21-69	
			CHK'D	DATE	
			ENG. E. Johnson	DATE 2/25/70	
			PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: UNIBUS DRIVERS M783

SIZE	CODE	NUMBER	REV.
B	CS	M783-0-1	

PRINTED CIRCUIT REV. A, B

DEC FORM NO.
DRB 102

5

DIST. 324, 434, 435 3

PINK.

SIZE	CODE	NUMBER	REV.
B	CS	M784-0-1	B

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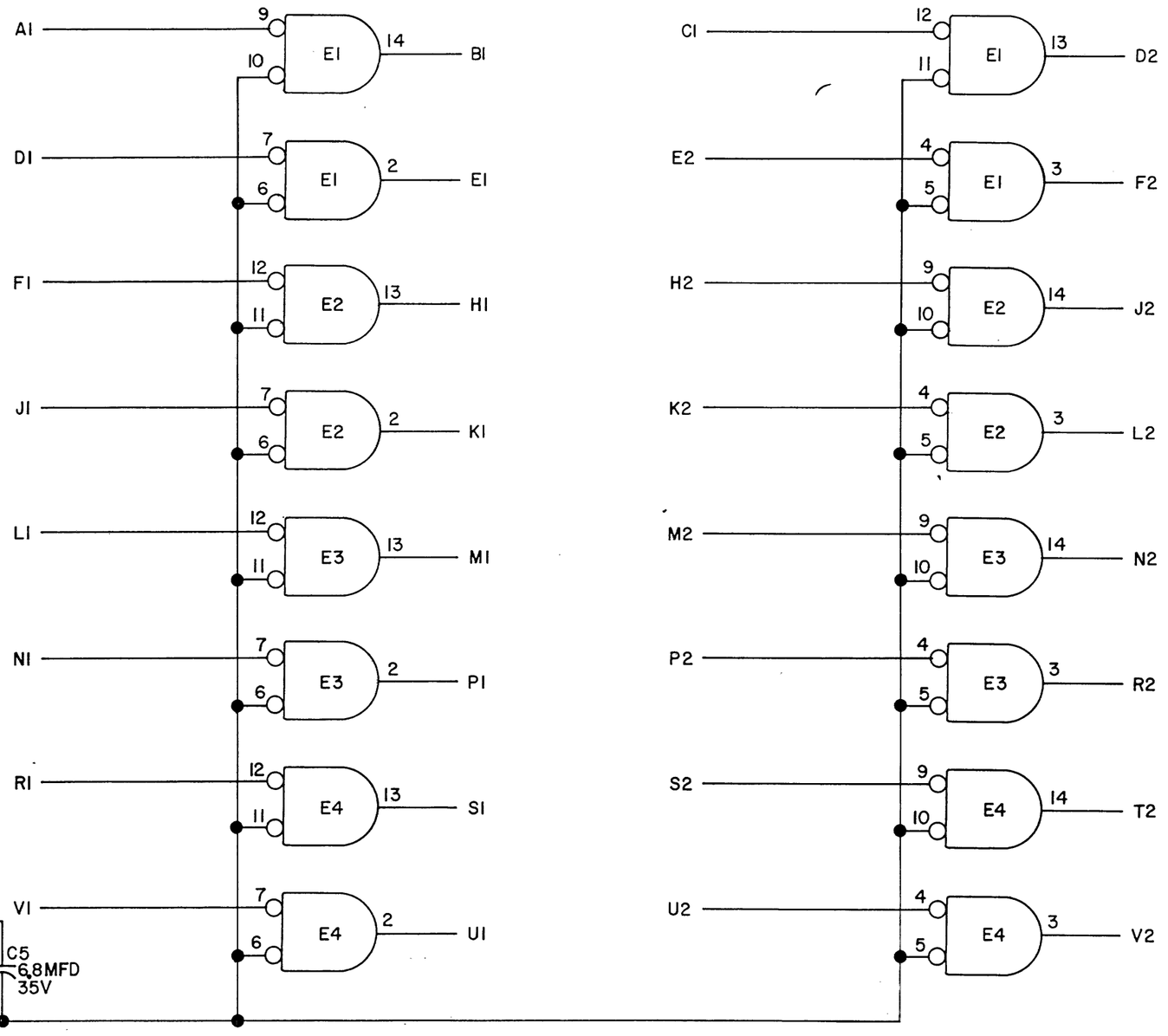
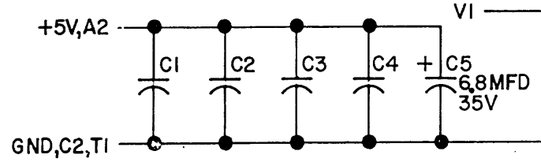


UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01MFD, 100V, 20%
IC'S ARE DEC380
PIN 1 ON EACH IC=GND
PIN 8 ON EACH IC=+5V



REVISIONS	REV.	CHG NO	CHK
	A	00001	
	B	00002	

DRN.	C. Talley	DATE 11-18-69
CHK'D	J. Whitcomb	DATE 1-7-70
ENG.	P. E. Jones	DATE 1/14/70
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE UNIBUS RECEIVERS
M784

SIZE	CODE	NUMBER	REV.
B	CS	M784-0-1	B

PRINTED CIRCUIT REV. A B C

DEC FORM NO.
DRB 102

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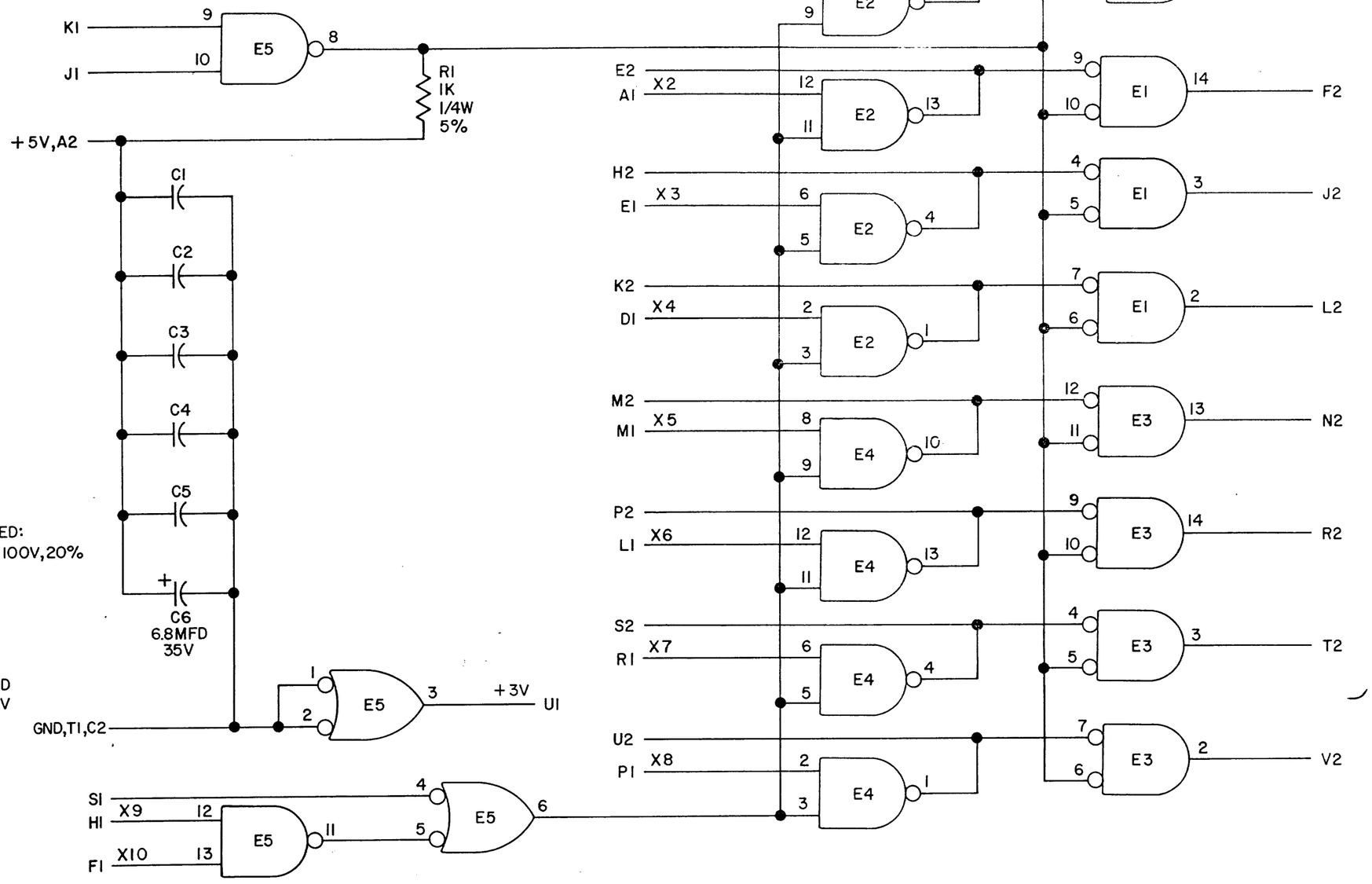

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01MFD,100V,20%
E1,E3 ARE DEC380 A
E2,E4 ARE DEC8881
E5 IS DEC7400

PIN 1 ON E1,E3 =GND
PIN 8 ON E1,E3 = +5V

PIN 7 ON E2,E4,E5 = GND
PIN 14 ON E2,E4, E5 = +5V

REVISIONS		
REV.		A
CHG NO.		00001
CHK		

DRN.	A. Peters	DATE 11-19-69
CHK'D		DATE 1-7-70
ENG.		DATE 3/4/70
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE UNIBUS TRANCEIVERS M785

SIZE	CODE	NUMBER	REV.
B	CS	M785-0-1	A

PRINTED CIRCUIT REV. A B

DEC FORM NO. DRB 102

5 PRINT DIST. 231,431,4353

SIZE	CODE	NUMBER	REV.
B	CS	M850-0-1	A

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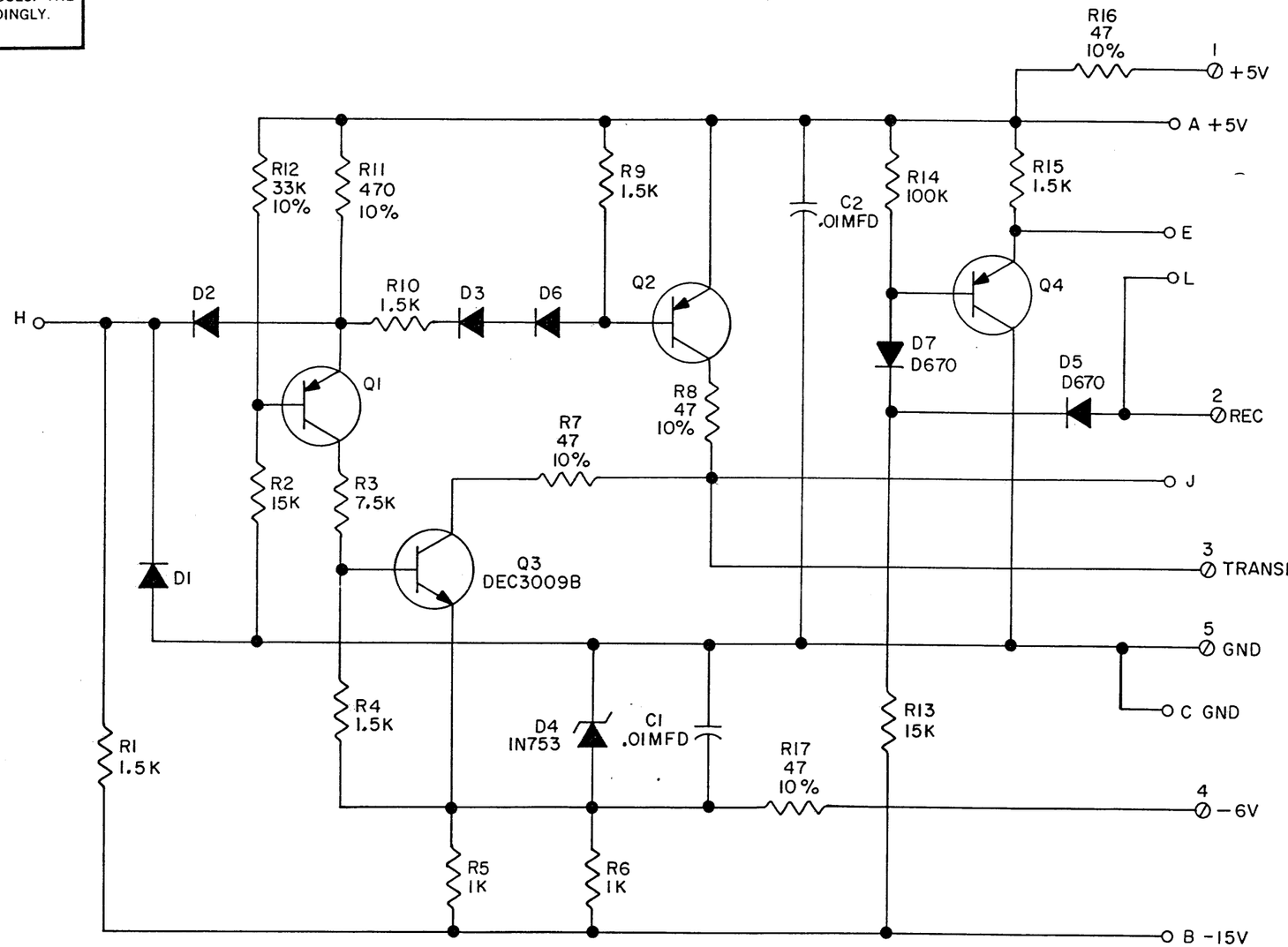

UNLESS OTHERWISE INDICATED:
- ∅ ARE SPLIT LUGS
- RESISTORS ARE 1/4W,5%
- DIODES ARE D664
- TRANSISTORS ARE DEC6534B

REVISIONS		
REV.	CHG NO.	CHK
A	00001	

DRN.	BUTLER	DATE 6/2/69
CHK'D	M. Marshall	DATE 6/3/69
ENG.	Louis Klug	DATE 6/3/69
PROD.		DATE 6/4/69

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534B	MPS6534		
DEC3009B	2N3009		
D664	IN3606		
D670	IN3653		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CONVERTER AND CABLE CONNECTOR M850

SIZE	CODE	NUMBER	REV.
B	CS	M850-0-1	A

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

DIST.

PINK

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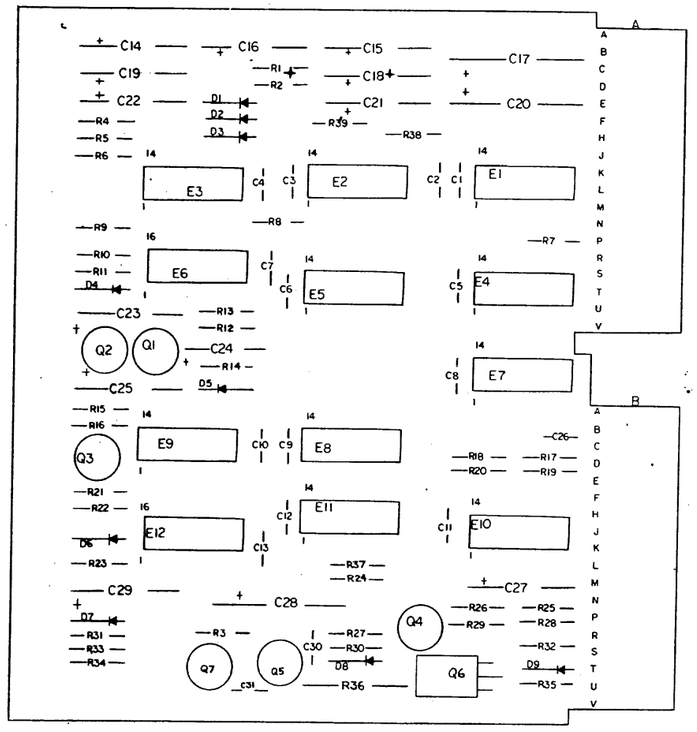

1		NUT, NYLON 4-40	9007992	41
1		SCREW, NYLON 4-40 x 3/8	9006401-4	40
2		HANDLE, FLIP CHIP - MAGENTA	9008339-06	39
4		EYELET	9006732	38
2	E6, 12	I.C. DEC 74123	1910436	37
3	E3, 5, 9	I.C. DEC 9601	1909373	36
2	E2, 7	I.C. DEC 7402	1909004	35
1	E11	I.C. DEC 7450	1905580	34
2	E4, 10	I.C. DEC 7400	1905575	33
2	E1, 8	I.C. DEC 7474	1905547	32
1	Q6	TRANSISTOR DEC 4920	1509405	31
1	Q4	TRANSISTOR DEC 6531	1509338	30
5	Q1, 2, 3, 5, 7	TRANSISTOR DEC 3009B	1503100	29
1	R31	RES. 39K ¼W 5%	1302514	28
1	R11	RES. 30K ¼W 5%	1302394	27
1	R36	RES. 390 1W 5%	1302384	26
1	R5	RES. 22K ¼W 5%	1301808	25
1	R30	RES. 820 ¼W 5%	1301775	24
5	R8, 19, 20, 38, 39	RES. 680 ¼W 5%	1301424	23
1	R2	RES. 180 ¼W 5%	1301322	22
8	R21,28,29,32,33,34,35,37	RES. 1.2K ¼W 5%	1301320	21
3	R6, 7, 22	RES. 12K ¼W 5%	1300488	20
4	R10, 13, 14, 23	RES. 10K ¼W 5%	1300479	19
3	R3, 18, 26	RES. 3.9K ¼W 5%	1300444	18
1	R12	RES. 3K ¼W 5%	1300432	17
1	R9	RES. 2.2K ¼W 5%	1300417	16
4	R15, 16, 24, 27	RES. 1.8K ¼W 5%	1300398	15
1	R4	RES. 27K ¼W 5%	1305346	14
3	R1, 17, 25	RES. 220 ¼W 5%	1300271	13
1	D9	DIODE 1N4001	1102942	12
8	D1 thru D8	DIODE D664	1100114	11
1	C28	CAP. 100UF 20V 10% TANT	1004815	10
2	C17, 20	CAP. 47UF 20V 10% TANT	1004814	9
1	C26	CAP. .05UF 25V -20% +80% DISC	1001774	8
15	C1 thru C13, 30, 31	CAP. .01UF 100V 20% DISC	1001610	7
11	C14, 15, 16, 18, 19, 21-23, 27, 29, 25	CAP. 39UF 10V 10% TANT	1000076	6
1	C24	CAP. 3.9UF 10V 10% TANT	1000064	5
1		ETCHED CIRCUIT BOARD	500 9129	4
		MODULE ECO HISTORY	B-MH-M890-0-6	3
		ASSY/DRILLING HOLE LAYOUT	D-AH-M890-0-5	2
		X-Y COORDINATE HOLE LOCATION	X-CO-M890-0-4	1
QTY.	REF DESIGNATION	DESCRIPTION	DEC PART NO.	LIST NO.

PARTS LIST

SHEET 1 OF 2

REVISIONS			
CHR	CHG NO.	REV	
[illegible]	00003	H	
[illegible]	00004	J	

DRN: JOSEE DOUCETTE DATE: 2/15/71
CHK'D: [illegible] DATE: 2/15/71
ENG: [illegible] DATE: [illegible]
PROD: DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: MOTION CONTROL

SIZE	CODE	NUMBER	REV
D	CS	M890-0-1	J

PRINTED CIRCUIT REV. H

DEC FORM NO. 960 118

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REWIND STATUS H AAI
REWIND BRK H AJI
FORWARD L AD2
FOR H AB1
TSL AM1
TDL AN1
TA H AL1
REWIND CAP H AH1
REWIND BRK L AK1
REWIND H AP2
PCLR H AS1
PCLR L AT2
LOCAL H AU1
MOTION H AV2
LD ON LINE AF1
TRANS SETTLING DOWN AR1
RUNNING H AP1
RUNNING L BE2
READY L BE1
OFF L BL1
LOAD PULSE L BH1
RELAY ENBL L BD1
RELAY ENABLE H BD2
FORCE BRK ON H BP2
FORCE BRK ON L BN2
BRK REL L BB1
CLR RLY ENBL L BJ1
VACUUM ON L BU1
VACUUM ON H BF2
REEL MTR ENBL L BV1
REEL MTR ENBL H BV2
MTR PWR RELAY COIL BS2
PWR COM BT2
+18V BU2
FAIL H BL2
FAIL L BK1
LFS L BA1
UFS L BM2
LFS H BC1

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01UF
DIODES ARE D664
RESISTORS ARE 1.2K
TRANSISTORS ARE DEC 3009B
DEC 7400 = E4, E10 PIN 7 = GND, PIN 14 = +5V
DEC 7402 = E2, E7 " "
DEC 7450 = E11 " "
DEC 7474 = E1, E8 " "
DEC 9601 = E3, E5, E9 " "
DEC 74123 = E6, E12 PIN 8 = GND, PIN 16 = +5V

+5V, AA2, BA2
GND, AC2, AT1, BC2, BT1
-15V, AB2, BB2

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC 4920		IN4001	SAME
DEC 3009B	2N3009	664	IN3606
DEC 655I	MPS6531		

REVISIONS: CHG NO 00003 BY; CHG NO 00004 J

DRN Roger Doucette 5/3/71
CHKD 5/5/71
ENG 5/7/71
PROD.

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: MOTION CONTROL
SIZE D | CODE CS | NUMBER M890-0-1 | REV J
PRINTED CIRCUIT REV H

SHEET 2 OF 2

DEC FORM NO. BMD 116

SIZE	CODE	NUMBER	REV.
B	CS	M901-0-1	C

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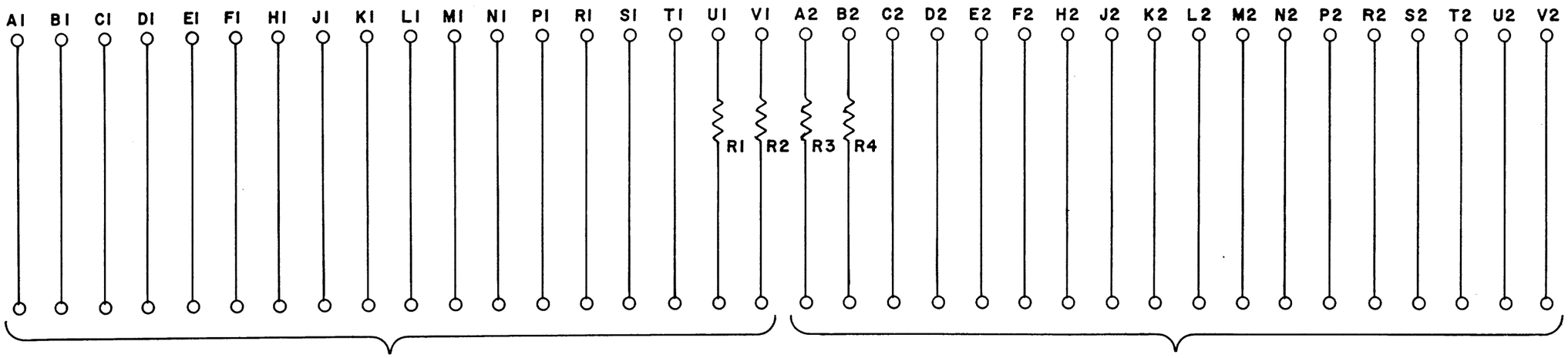

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
R1-R4	RES. 10 1/4W 10% CC	1300170
	PARTS LIST	A-PL-M901-0-0

PARTS LIST

REVISIONS			
CHK	CHG NO.	REV.	
[illegible]	00001	C	

DRN. M. Waller	DATE 8-14-68	
CHK'D W. A. Gillen	DATE 8-14-68	
ENG. [illegible]	DATE 11/5/68	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE FLEXPRINT CABLE CONNECTOR M901

SIZE	CODE	NUMBER	REV.
B	CS	M901-0-1	C

PRINTED CIRCUIT REV. B C

DIST. 324 434 435

PINK

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	M902 – YA-1	

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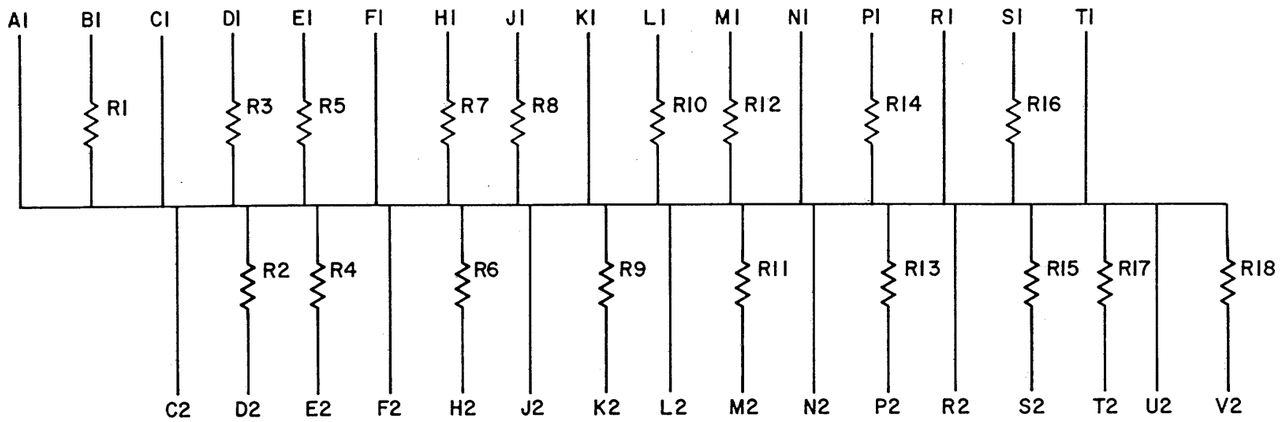

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 470, 1/4W, 5%

REVISIONS	REV.	CHG NO.	CHK

DRN. S. Cooper	DATE 10/5/70	
CHK'D M. Waller	DATE 10/7/70	
ENG. [illegible]	DATE 11/12/70	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
RESISTOR TERMINATOR M902-YA

SIZE	CODE	NUMBER	REV.
B	CS	M902-YA-1	
PRINTED CIRCUIT REV.		A	

DEC FORM NO.
DRB 102

DIST. 324.434.435 3 S PINK

SIZE B | CODE CS | NUMBER M902-YB-1 | REV.

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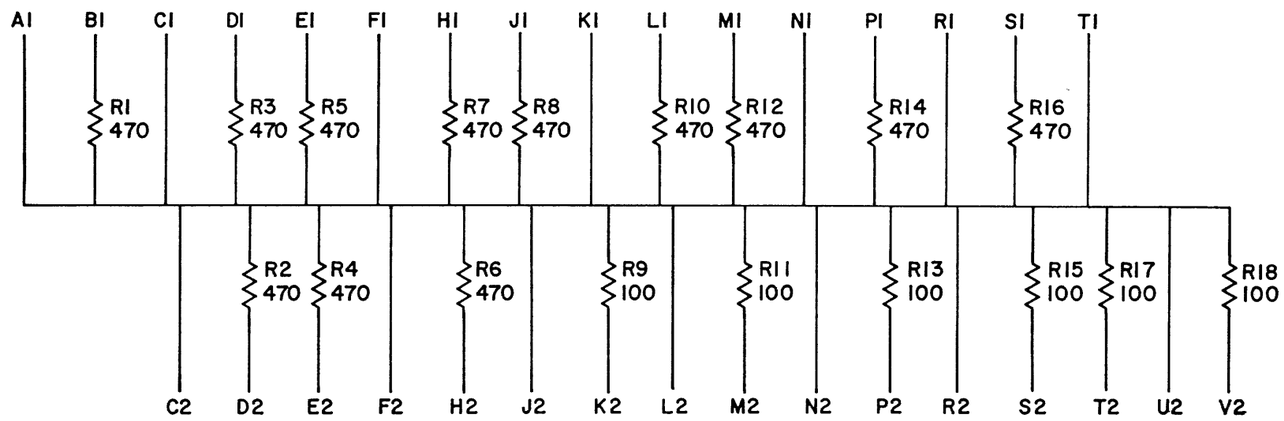

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%

REVISIONS	REV.	CHG NO.	CHK

DRN. J. Cooper	DATE 5/7/70	
CHK'D M Waller	DATE 10/8/70	
ENG. [illegible]	DATE 11/12/70	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE RESISTOR TERMINATOR M902-YB

SIZE	CODE	NUMBER	REV.
B	CS	M902-YB-1	

PRINTED CIRCUIT REV. A

DEC FORM NO. DRB 102

DIST. 324,424,4353

5 PINK

SIZE	CODE	NUMBER	REV.
B	CS	M903-0-1	

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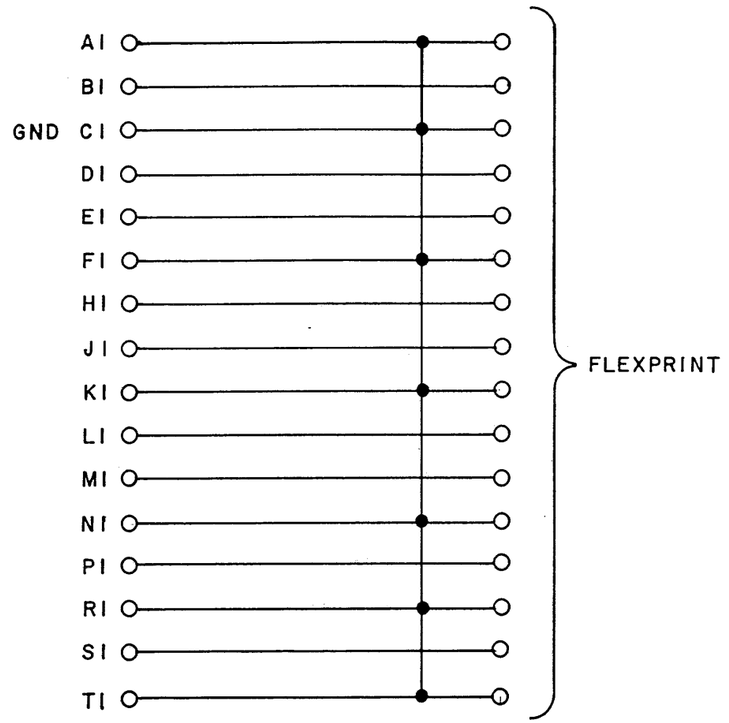

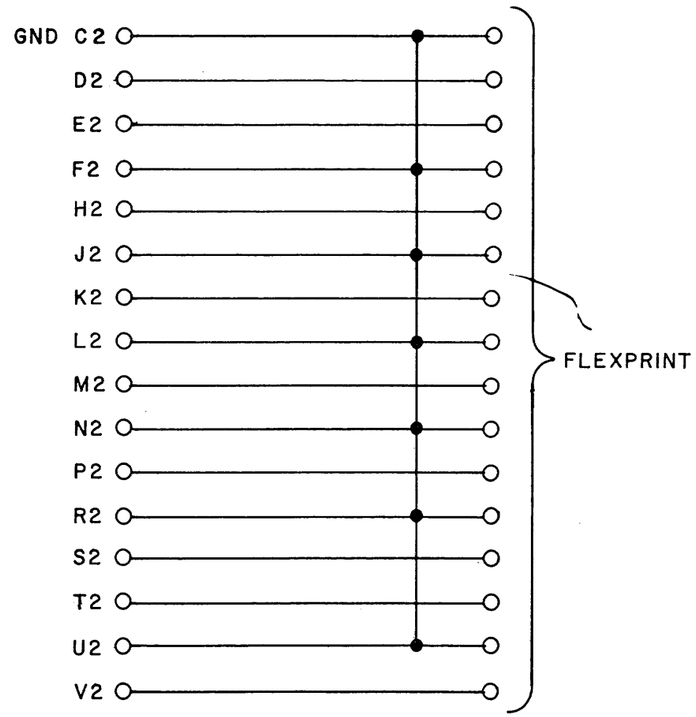

PARTS LIST IS A-PL-M903-0-0

REVISIONS					
REV.	CHG NO.	CHK	DRN.	DATE	
			M. Waller	7-2-68	
			CHK'D W. Mullen	DATE 7-3-68	
			ENG. [illegible]	DATE 7/12/68	
			PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CONNECTOR (FLEXPRINT) M903

SIZE	CODE	NUMBER	REV.
B	CS	M903-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO. DRB 102

DIST. 324 434 435

PINK

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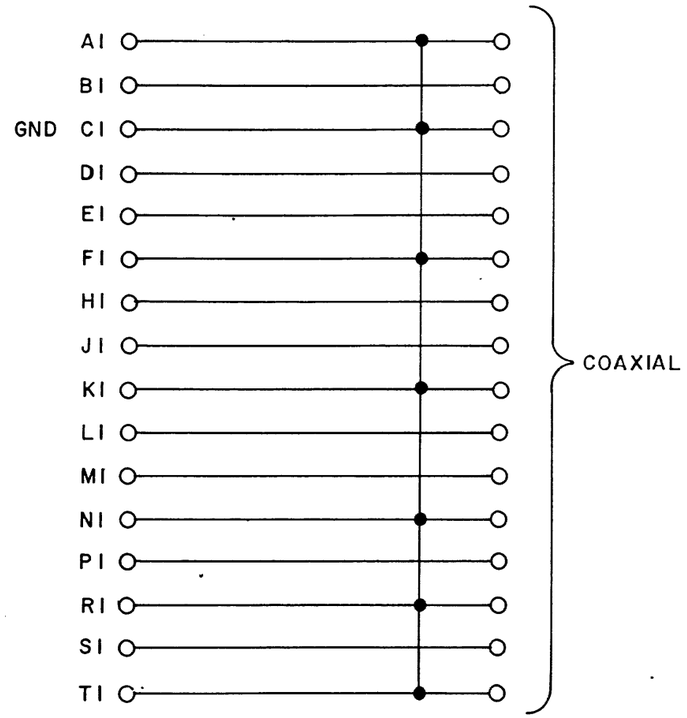

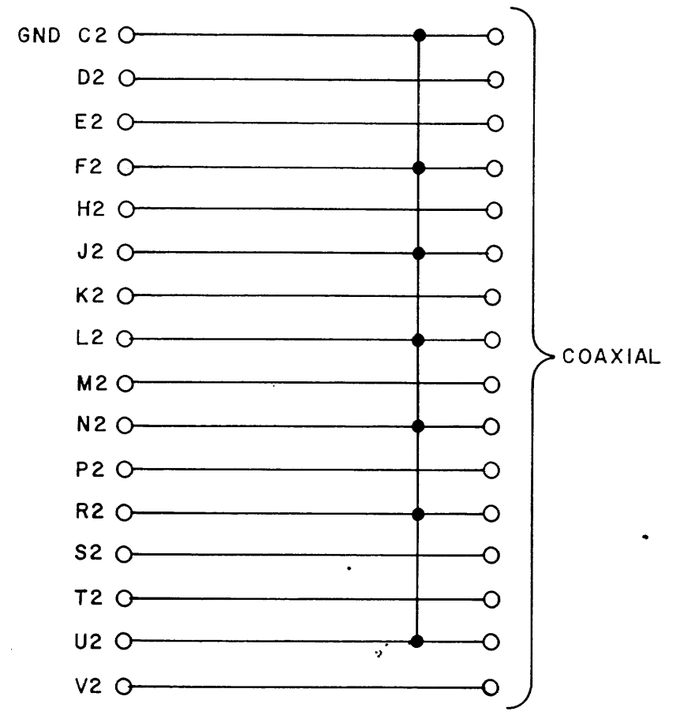

PARTS LIST IS A-PL-M904-0-0

REVISIONS				DRN.	DATE
REV.	A	C		M. Halber	7-12-68
CHG NO.	00001	00003		CHK'D	DATE
CHK	[illegible]	[illegible]		W. [illegible]	7-22-68
				ENG.	DATE
				[illegible]	7/15/68
				PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: CONNECTOR (COAXIAL) M904

SIZE	CODE	NUMBER	REV.
B	CS	M904-0-1	C

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

5

DIST. 321 [illegible] 435

PINK

SIZE	CODE	NUMBER	REV.
B	CS	M906-0-1	B

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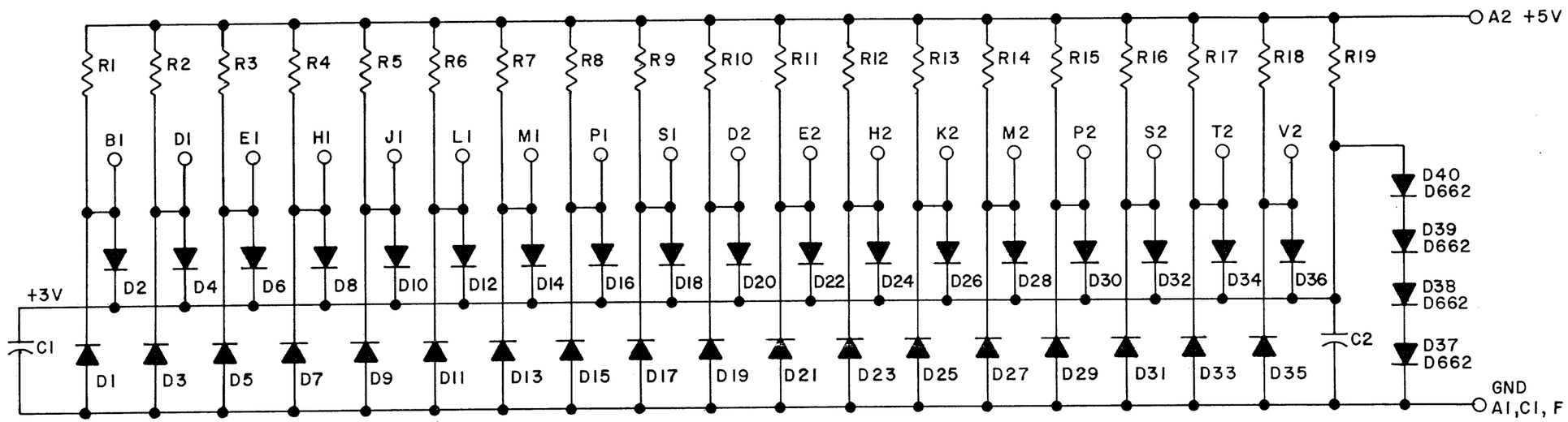

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 220, 1/4W,5%
DIODES ARE D664
CAPACITORS ARE .01 MFD, 100V,20%

REVISIONS			
REV.	CHG NO.	REV. & REDR.	B
CHK		00001	

DRN. M. HALLER	DATE 8-2-68	
CHK'D W. MULLEN	DATE 8-2-68	
ENG. D.A.WHITE	DATE 10-16-68	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CABLE TERMINATOR M906

SIZE	CODE	NUMBER	REV.
B	CS	M906-0-1	B

PRINTED CIRCUIT REV. A B

DEC FORM NO.
DRB 102

5

PINK

141

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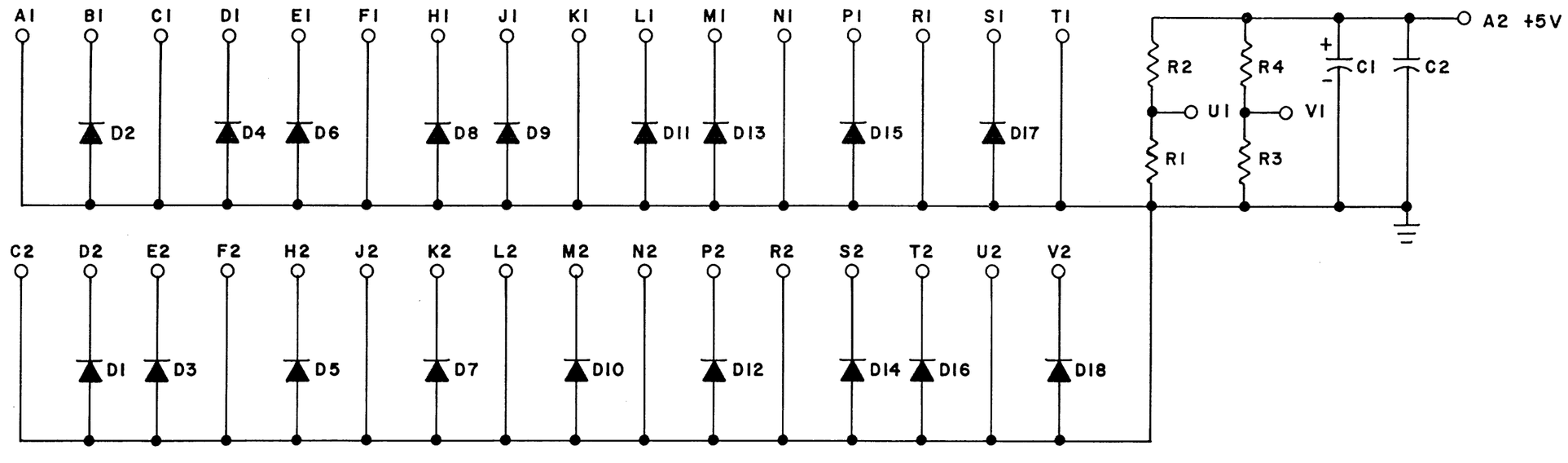

D1 - D18	DIODE D664	1100114
R2, R4	RES. 330 1/4W 5% CC	1300295
R1, R3	RES. 750 1/4W 5% CC	1301401
C1	CAP. 6.8MFD 35V 20% S.TANT	1000067
C2	CAP. .01MFD 100V 20% DISC	1001610
	PARTS LIST	A-PL-M907-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REVISIONS		
CHK	CHG NO.	REV.
	00001	B

DRN. m. Keller	DATE 8-9-68	
CHK'D M. Mullen	DATE 8-9-68	
ENG. F. Holbrook	DATE 9/11/68	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: DIODE CLAMP M907

SIZE	CODE	NUMBER	REV.
B	CS	M907-0-1	B

PRINTED CIRCUIT REV. A

DEC FORM NO. DRB 102

4

DISC 324 434 435 PINK

SIZE	CODE	NUMBER	REV.
B	CS	M908-0-1	

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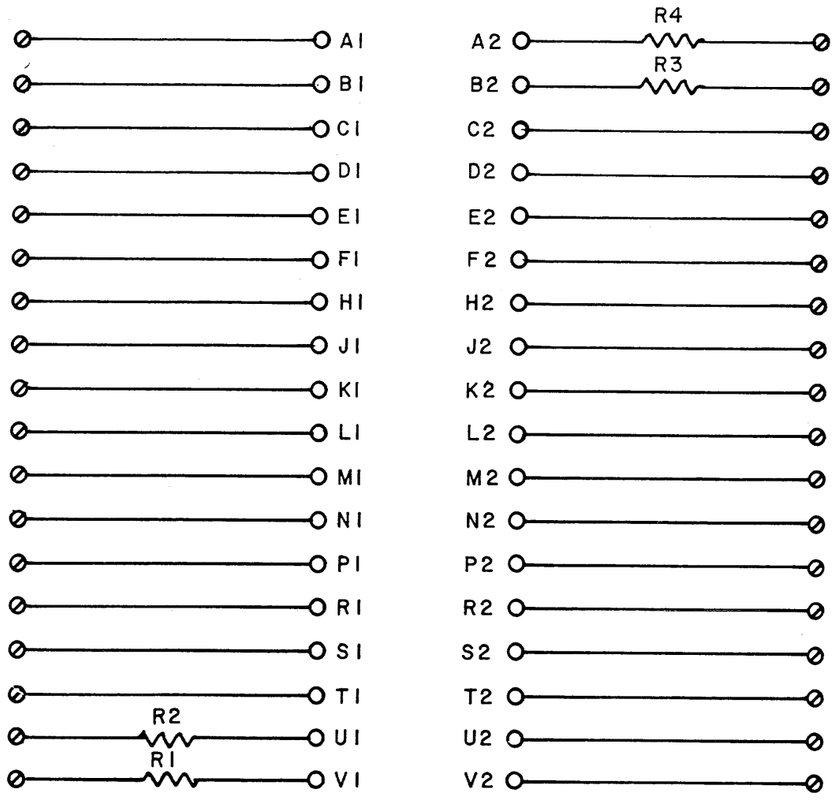

⊘ SPLIT LUG

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
R1 - R4	RES. 10 1/4W 10% CC	1300170
	PARTS LIST	A-PL-M908-0-0

PARTS LIST

REVISIONS					
REV.					
CHG NO.					
CHK					

DRN. M. Keller	DATE 9-27-68	
CHK'D D. Fuller	DATE 9-27-68	
ENG. [illegible]	DATE 11/5/68	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: CONNECTOR MODULE M908

SIZE	CODE	NUMBER	REV.
B	CS	M908-0-1	

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

PINK DIST. 324 434 435²

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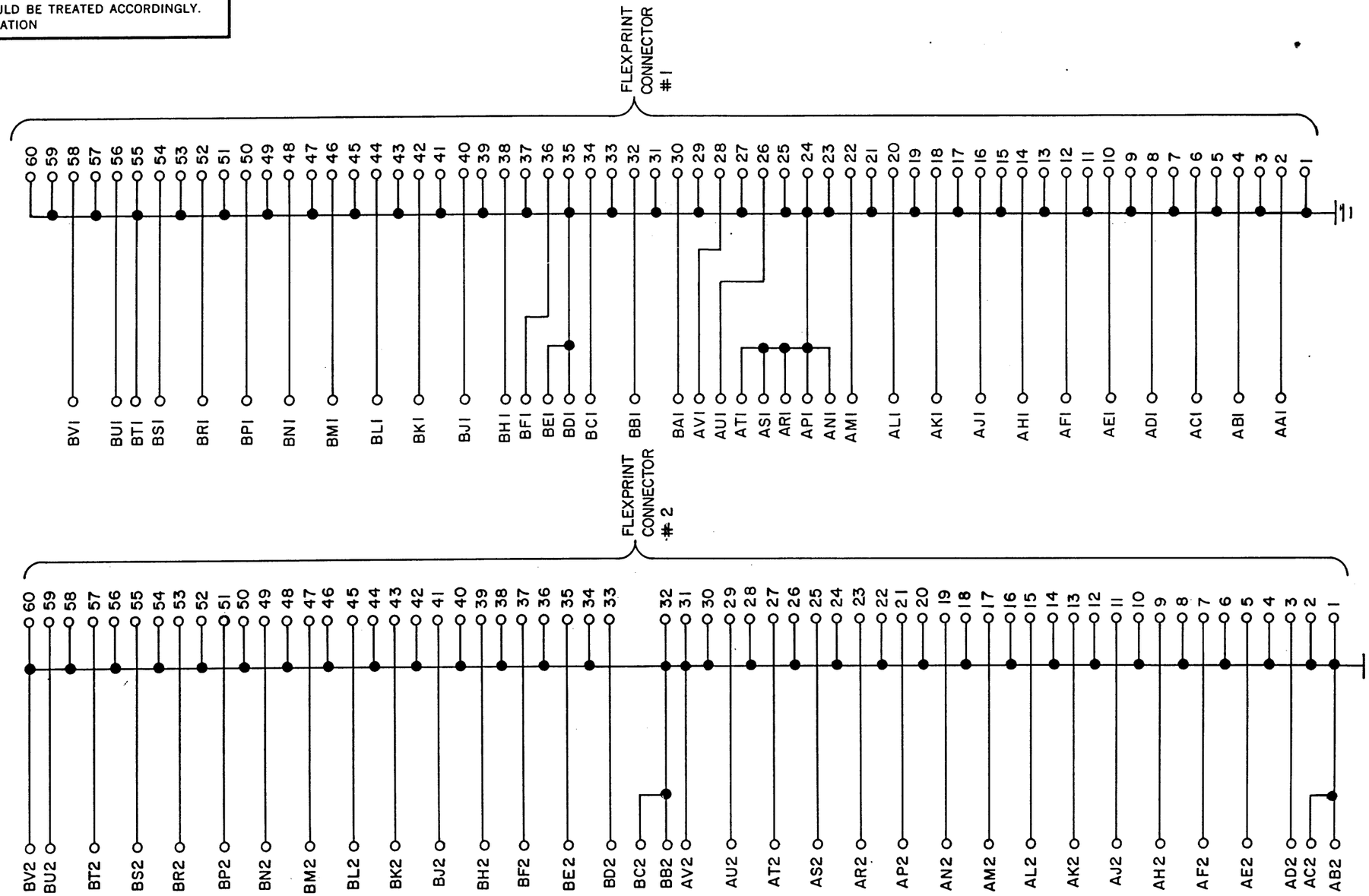

REVISIONS			
CHK	CHG NO.	REV.	
22	00001	A	

DRN. BUTLER	DATE 10/17/69	
CHK'D G. Yarayan	DATE 10-20-69	
ENG. C. Bhasi	DATE 11-7-69	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: BUS CONNECTOR M919

SIZE	CODE	NUMBER	REV.
B	CS	M919-0-1	A

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

5

DIST. 324,434,435 3

PINK

SIZE	CODE	NUMBER	REV.
B	CS	M921-0-1	

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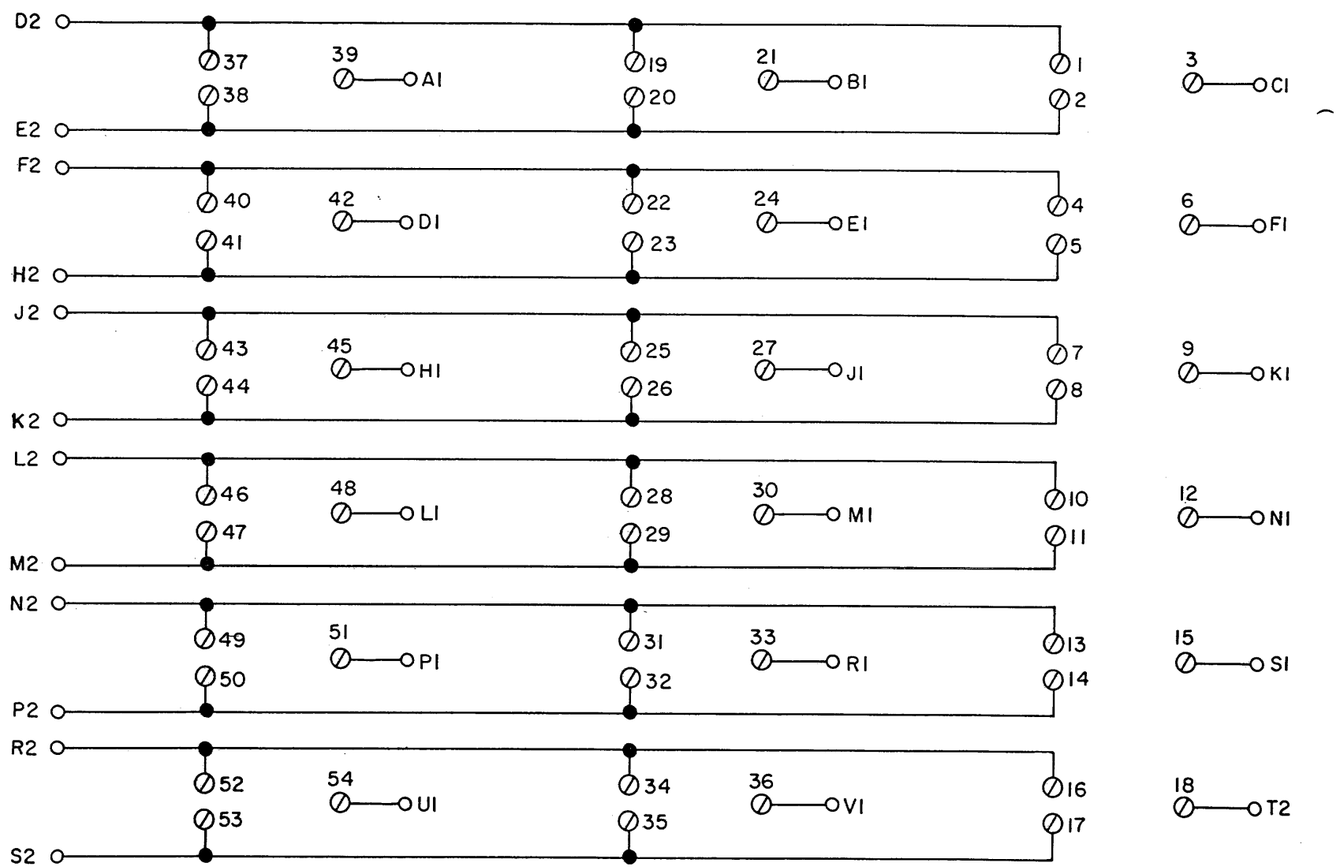
PIN SIGNAL ASSIGNMENTS

OUT			
DEVICE A	DEVICE B	DEVICE C	SIGNAL
AI	BI	CI	MB3
DI	EI	FI	MB4
HI	JI	KI	MB5
LI	MI	NI	MB6
PI	RI	SI	MB7
UI	VI	T2	MB8

IN	
D2	MB3(0)
E2	MB3(1)
F2	MB4(0)
H2	MB4(1)
J2	MB5(0)
K2	MB5(1)
L2	MB6(0)
M2	MB6(1)
N2	MB7(0)
P2	MB7(1)
R2	MB8(0)
S2	MB8(1)



UNLESS OTHERWISE INDICATED:
⌀ ARE SPLIT LUGS

REVISIONS	REV.	CHG NO.	CHK

DRN. BUTLER	DATE 7/16/69	
CHK'D C.G. Galette	DATE 7/29/69	
ENG. J. Scanlon	DATE 9/29/69	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE DEVICE CODE SELECT JUMPER BOARD

SIZE	CODE	NUMBER	REV.
B	CS	M921-0-1	

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

5 DIST: 3,24,43,43,53 PINK

SIZE	CODE	NUMBER	REV.
B	CS	M922-0-1	B

CHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE
TS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY.
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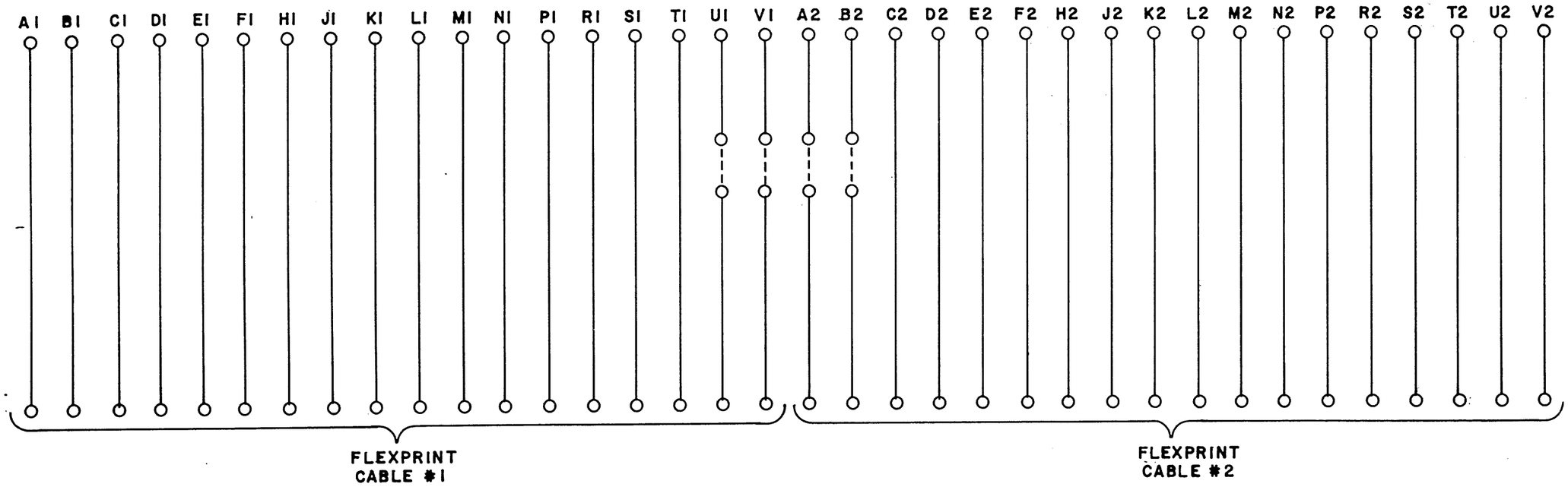

UNLESS OTHERWISE INDICATED:
O---O INDICATES JUMPERS
USE THE ETCH BOARD OF THE M901

DRN.	M. Keller	DATE 9-5-69
CHK'D		DATE 9/5/69
ENG.	F.C. Ausmann	DATE 9/16/69
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE FLEXPRINT CABLE CONNECTOR M922

SIZE	CODE	NUMBER	REV.
B	CS	M922-0-1	B

PRINTED CIRCUIT REV. B C

5 DIST: 324, 434, 435 PINK

B 00001 12

RM NO.
2

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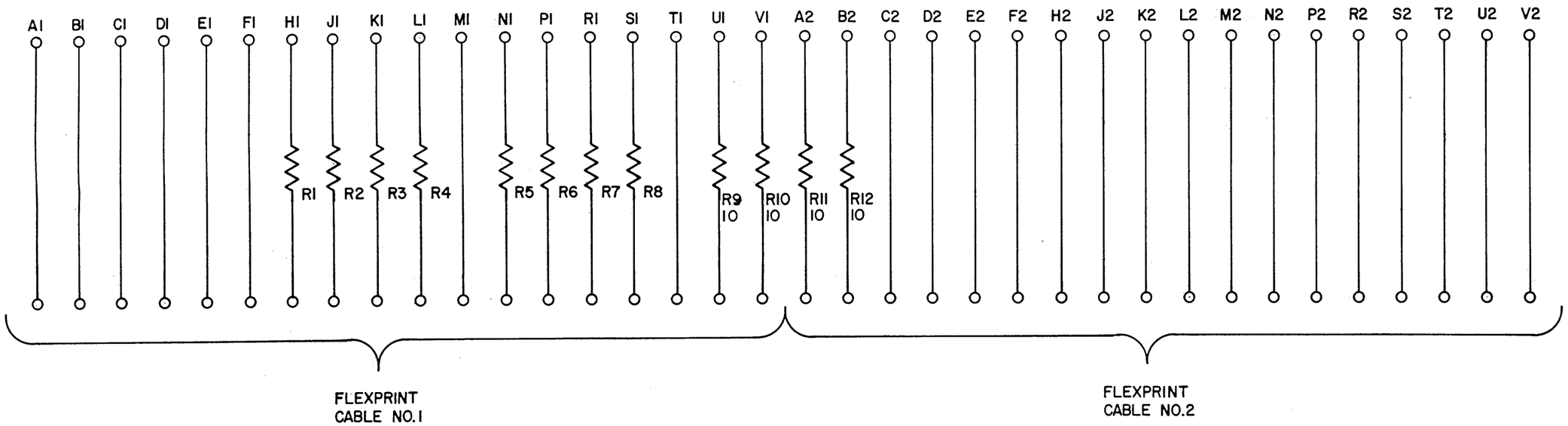

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 100,1/4W,10%

REVISIONS	REV.	CHG NO.	CHK

DRN. C. Ritey	DATE 11-18-69	
CHK'D D Smith	DATE 11-19-69	
ENG. W Quinn	DATE 12/1/69	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE FLEXPRINT CABLE CONNECTOR

SIZE	CODE	NUMBER	REV.
B	CS	M926-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO. DRB 102

MS656-1-5

5 PINK

DIST. 3,14,4,4,4,5,3

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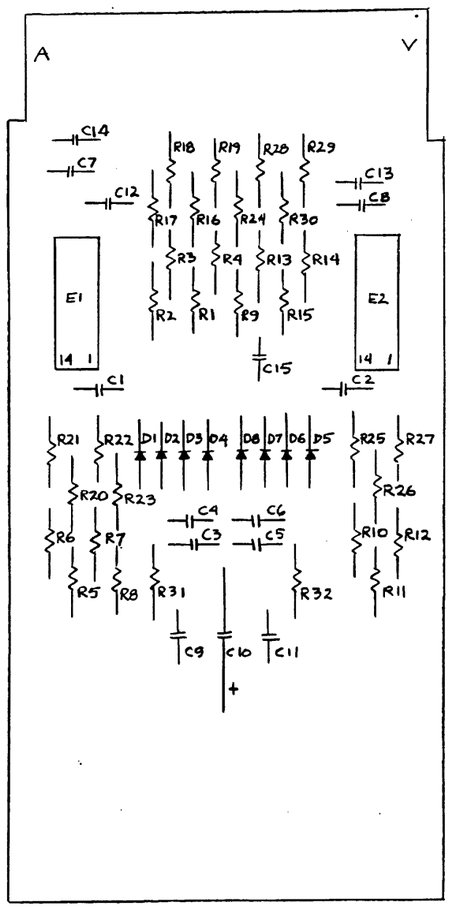

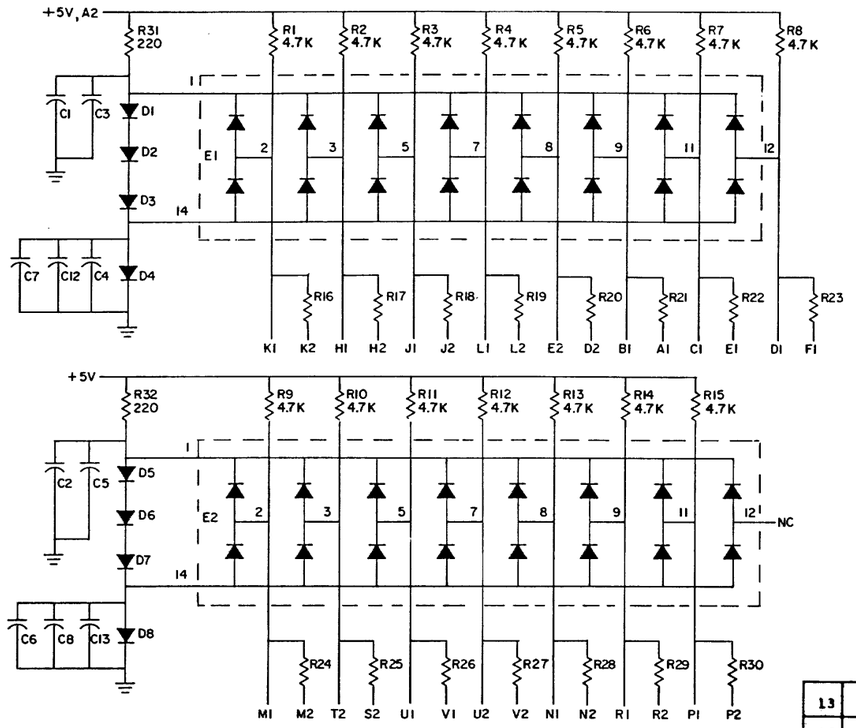

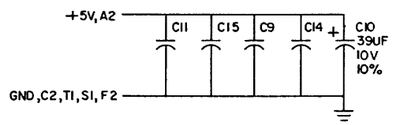

UNLESS OTHERWISE INDICATED:

CAPACITORS = .047UF, 16V, +50-20%
E1, E2 = DEC2501
DIODES = D662
RESISTORS = 1K, 1/4W, 5%

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
13	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
12	9006732	EYELET #GS 4-7	2
11	1910010	I.C. DEC 2501	2
10	1300447	RES. 4.7K, 1/4W 5%	15
9	1300365	RES. 1K, 1/4W, 5%	15
8	1300271	RES. 220, 1/4W, 5%	2
7	1100113	DIODE D662	8
6	1009678	CAP. .047, 16V, 50-20%	14
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5008685	ETCHED CIRCUIT BOARD	1
3	B-MI-M931-0-6	MODULE ECO HISTORY	
2	C-AH-M931-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M931-0-4	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	1N645		

REVISIONS: REV. | CHG NO. | CHK

DRN. NANCY MOORE DATE 1/5/70
CHK'D [illegible] DATE 1-19-71
ENG. [illegible] DATE 1/19/71
PROD. DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 15 TERMINATORS WITH IND. RES.
SIZE C | CODE CS | NUMBER M931-0-1 | REV. D
PRINTED CIRCUIT REV. D

REV. D | NUMBER M931-0-1 | CODE CS | SIZE C

DEC FORM NO DRC 102

REV.	NUMBER	CODE	SIZE
	M941-0-1	CS	B

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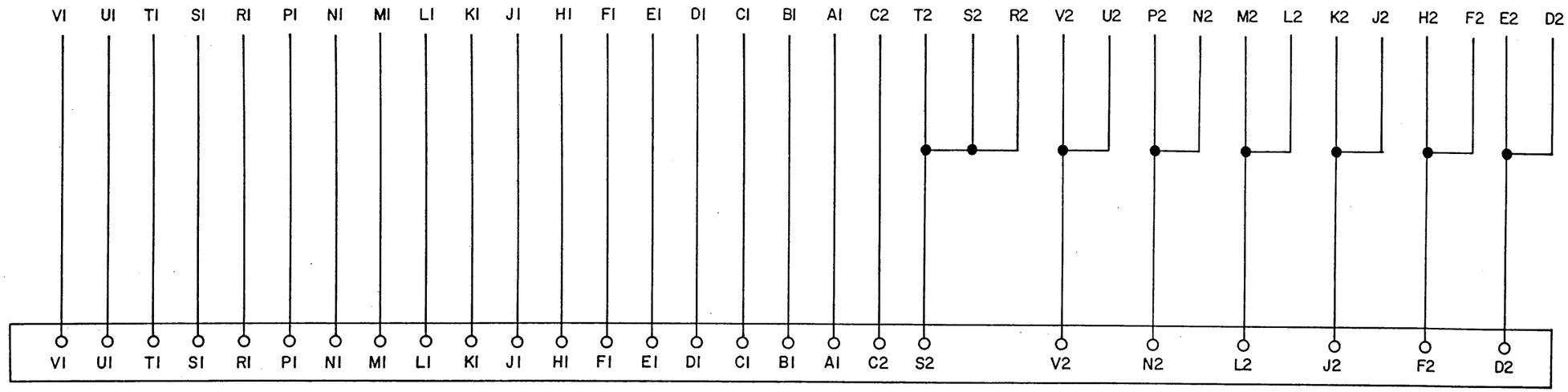

CONNECTOR 7900-0155-0

REVISIONS	REV.	CHG NO.	CHK

DRN.	NANCY MOORE	DATE	4/14/70
CHK'D		DATE	4/14/70
ENG.		DATE	5/15/70
PROD.		DATE	5/27/70

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: JUMPER/EXTENDER BOARD M941

SIZE	CODE	NUMBER	REV.
B	CS	M941-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

DIST 324, 434, 435 3

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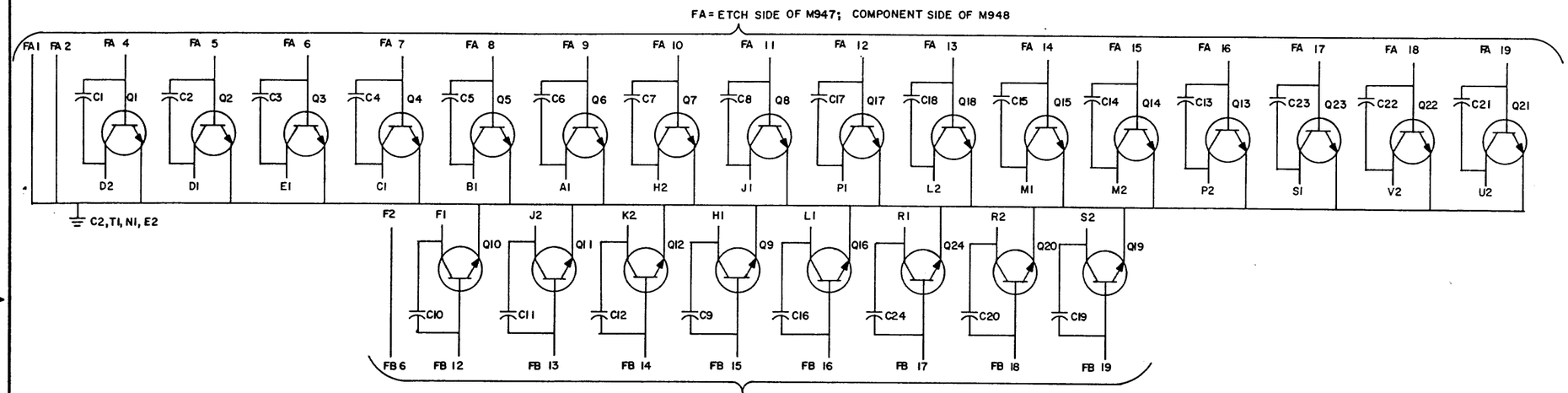
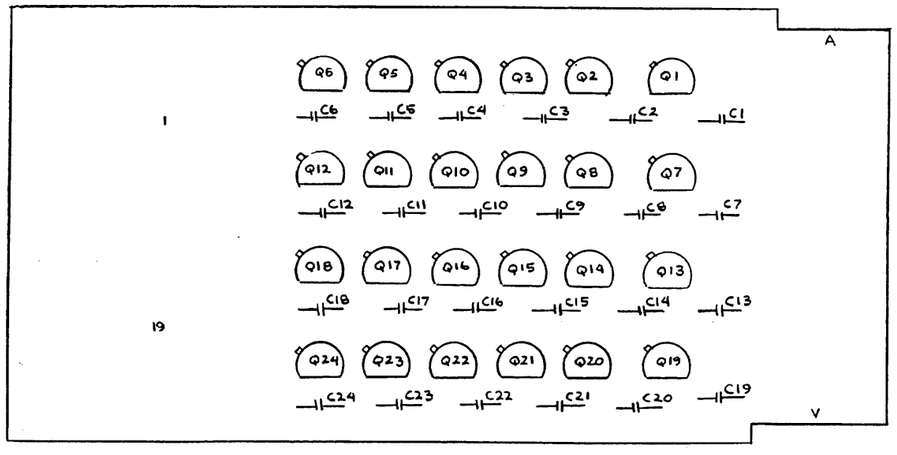


UNLESS OTHERWISE INDICATED:
CAPACITORS ARE 470PF, 100V, ±5%
TRANSISTORS ARE DEC6531B



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
6	1509338	TRANSISTOR DEC 6531B	24
5	1000024	CAP. 470 PF 100V 5%	24
4	5009370	ETCHED CKT. BOARD	1
3	B-MH-M947-0-6	MODULE ECO HISTORY	
2	C-AH-M947-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M947-0-4	X-Y COORDINATE HOLE LOACTION	

PARTS LIST

REVISIONS			
REV.			
CHG NO.			
CHK			

DRN.	NANCY MOORE	DATE 5/18/70
CHK'D		DATE
ENG.		DATE 7-27-71
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6531B	MPS6531		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE KI-10 INDICATOR DRIVER M947

SIZE	CODE	NUMBER	REV.
C	CS	M947-0-1	B

PRINTED CIRCUIT REV. C

SIZE	CODE	NUMBER	REV.
C	CS	M947-0-1	B

DEC FORM NO.
DRC 102

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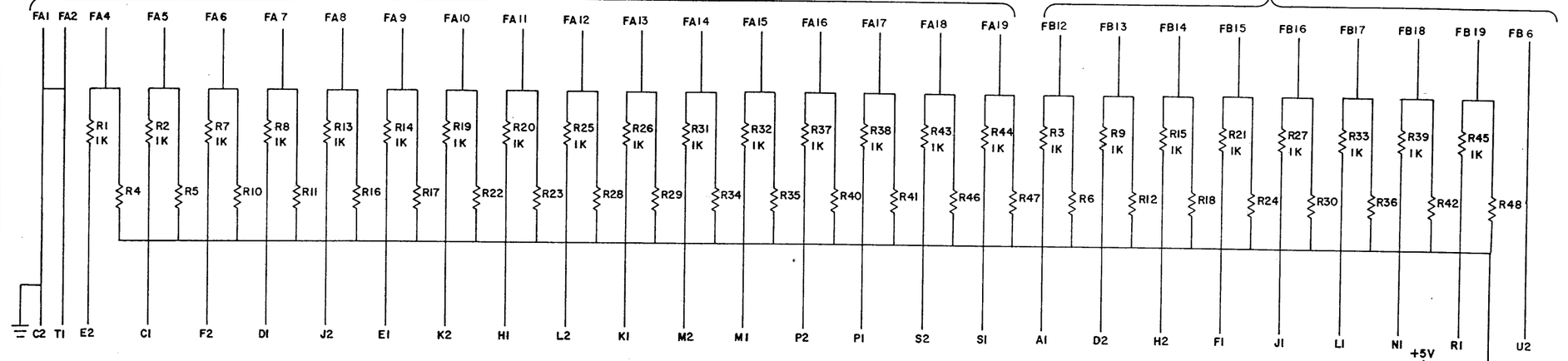
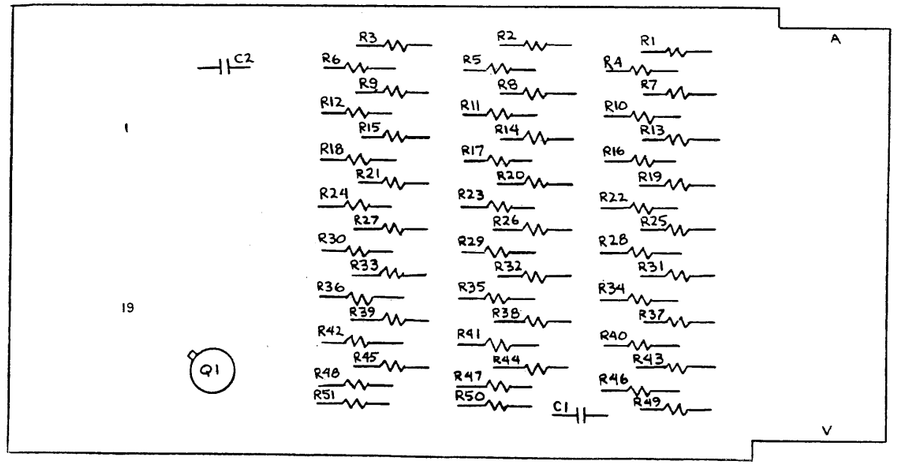
FA=COMPONENT SIDE OF M948; ETCH SIDE OF M947

FB= ETCH SIDE OF M948; COMPONENT SIDE OF M947



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 3.3K, 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
10	1503409-00	TRANSISTOR DEC 6534D	1
9	1300439	RES. 3.3K ¼W 5%	26
8	1300365	RES. 1K ¼W 5%	24
7	1300231	RES. 100 ¼W 10%	1
6	1009678	CAP. .047 UF 16V 50 -20%	1
5	1001610	CAP. .01 UF 100V 20% DISC	1
4	5009449	ETCHED CKT. BOARD	1
3	B-MH-M948-0-6	MODULE ECO HISTORY	
2	C-AH-M948-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M948-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

REVISIONS | REV. | CHG NO. | CHK

DRN. S. Cooper	DATE 5/14/70	
CHK'D	DATE 7-7	
ENG.	DATE 7-29-71	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534D	MPS6534		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: KI Ø INDICATOR BOARD

SIZE	CODE	NUMBER	REV.
C	CS	M948-0-1	A

PRINTED CIRCUIT REV. B

REV. A | NUMBER M948-0-1 | SIZE C | CODE CS

DEC FORM NO. DRC 102

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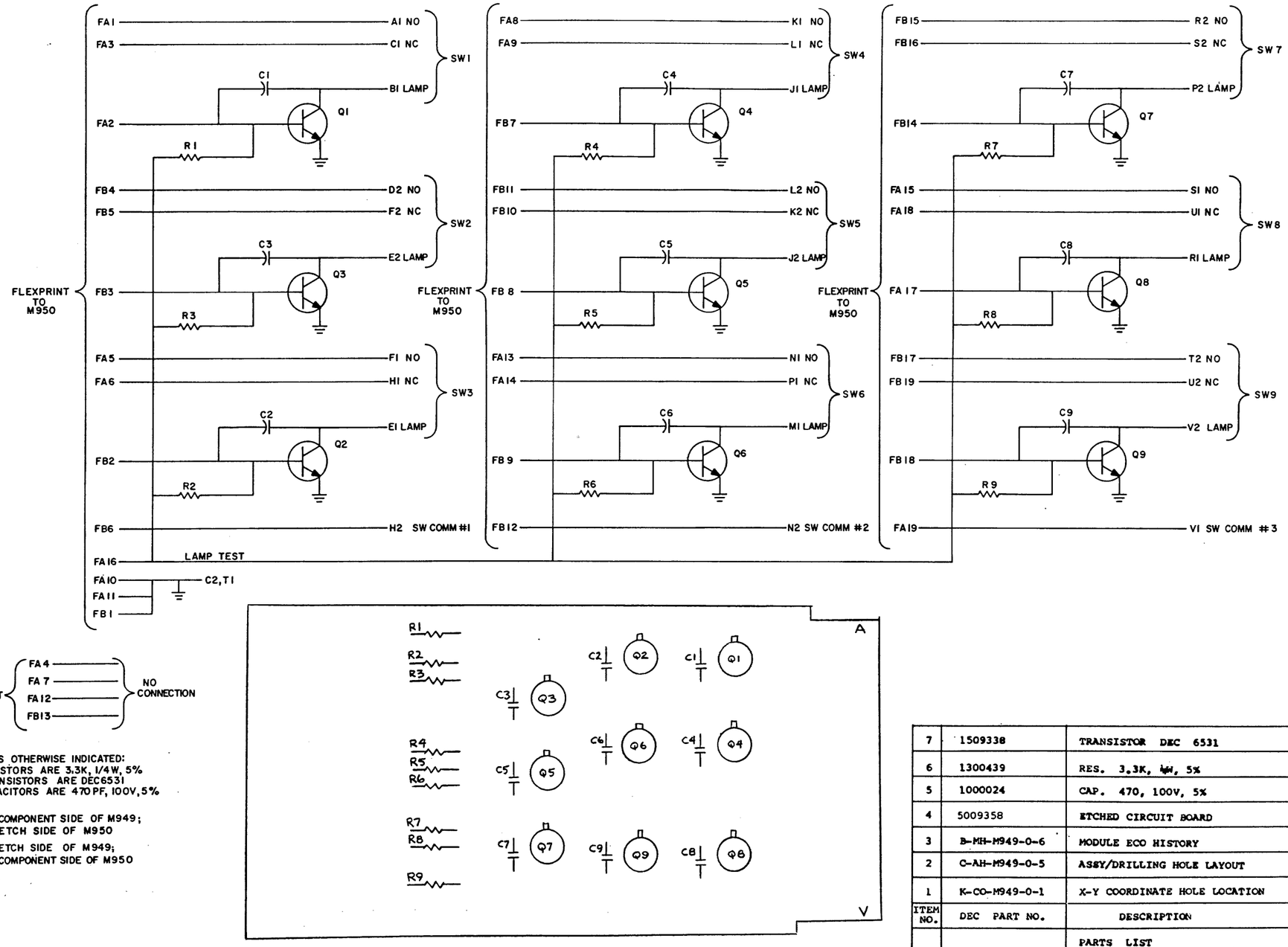

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 3.3K, 1/4W, 5%
TRANSISTORS ARE DEC6531
CAPACITORS ARE 470 PF, 100V, 5%

FA= COMPONENT SIDE OF M949;
ETCH SIDE OF M950

FB= ETCH SIDE OF M949;
COMPONENT SIDE OF M950

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
7	1509338	TRANSISTOR DEC 6531	9
6	1300439	RES. 3.3K, ¼W, 5%	9
5	1000024	CAP. 470, 100V, 5%	9
4	5009358	ETCHED CIRCUIT BOARD	1
3	B-MH-M949-0-6	MODULE ECO HISTORY	
2	C-AH-M949-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M949-0-1	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6531	MPS6531		

REVISIONS: REV. | CHG NO. | CHK

DRN S Cooper DATE 12/15/70
CHK'D DATE
ENG DATE 1/7/71
PROD DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: INDICATOR CABLE CONN. M949

SIZE C | CODE CS | NUMBER M949-0-1 | REV.

PRINTED CIRCUIT REV. A

SIZE C | CODE CS | M949-0-1 | REV.

DEC FORM NO. DRC 102

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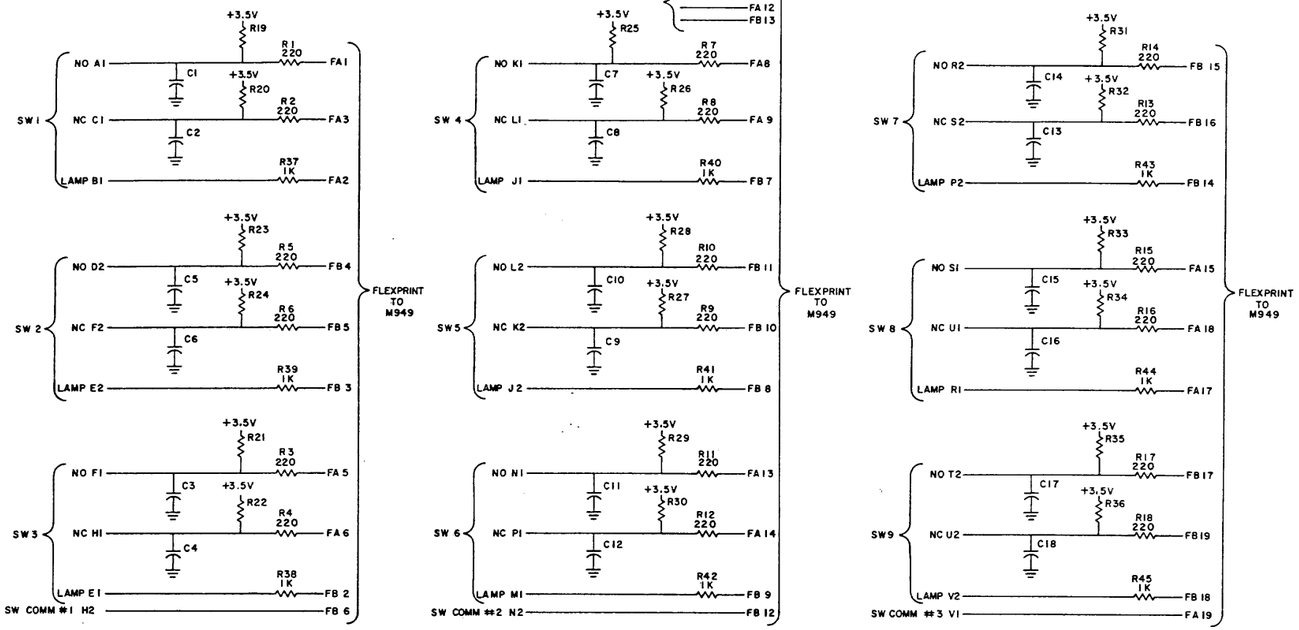
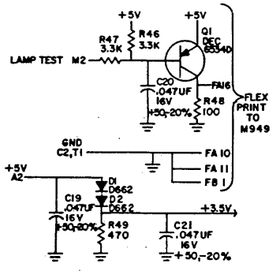
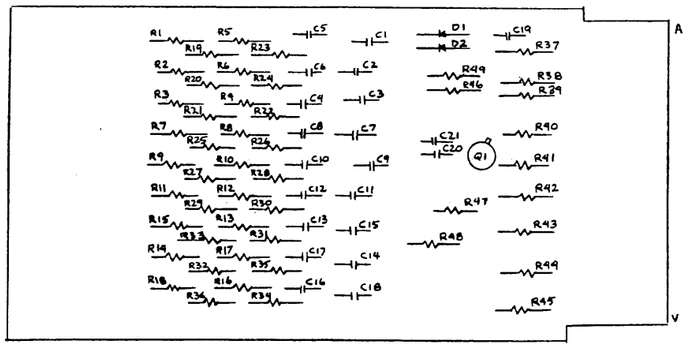




UNLESS OTHERWISE INDICATED:
RESISTORS ARE 4.7K, 1/4W, 5%
CAPACITORS ARE 470PF, 100V, 5%

FA= ETCH SIDE OF M950; COMPONENT SIDE OF M949
FB= COMPONENT SIDE OF M950; ETCH SIDE OF M949



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
14	1503409-00	TRANSISTOR DEC 6534D	1
13	1300447	RES. 4.7K, 1/4W, 5%	18
12	1300439	RES. 3.3K, 1/4W, 5%	2
11	1300365	RES. 1K, 1/4W, 5%	9
10	1300316	RES. 470, 1/4W, 5%	1
9	1300229	RES. 100, 1/4W, 5%	1
8	1300271	RES. 220, 1/4W, 5%	18
7	1100113	DIODE D662	2
6	1009678	CAP. .047UF, 16V, 50-20%	3
5	1000024	CAP. 470PF, 100V, 5%	18
4	5009372	ETCHED CIRCUIT BOARD	1
3	B-MH-M950-0-6	MODULE ECO HISTORY	
2	C-AH-M950-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M950-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645	DEC6534D	MPS6534D

REVISIONS			
CHN	CHG NO	REV	

DRW J. Cooper DATE 1/10/71
ENG'D DATE 2-9-71
TST DATE 2-9-71
PROD DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: INDICATOR CABLE CONN. M950

SIZE	CODE	NUMBER	REV
D	CS	M950-0-1	

PRINTED CIRCUIT REV A

DEC FORM NO. 9100 110

SIZE D | CODE CS | M950-0-1 | REV

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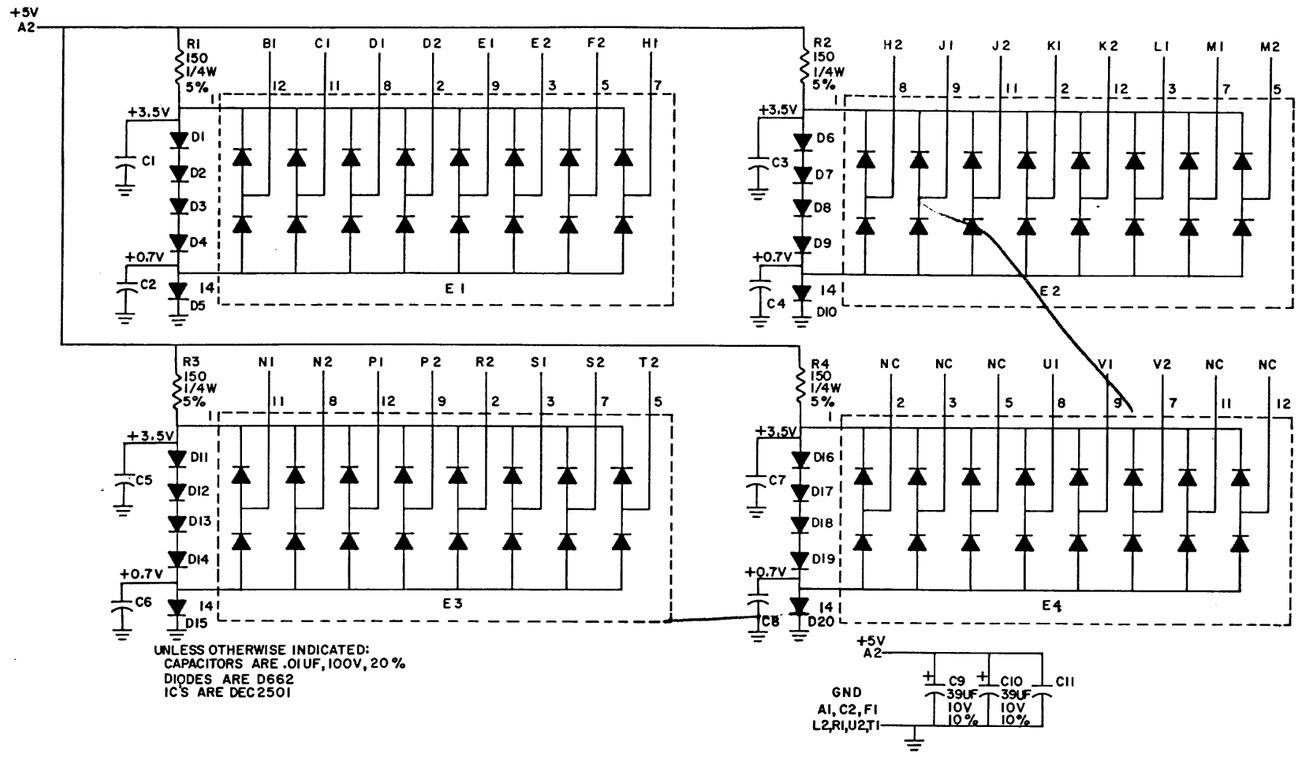

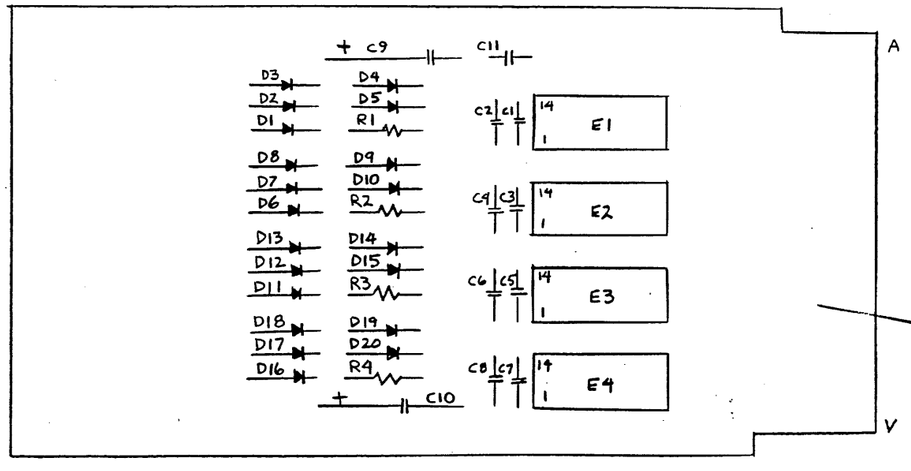

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
11	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
10	9006732	EYELET #GS 4-7	2
9	1910010	I.C. DEC 2501	4
8	1300250	RES. 150, ¼W, 5%	4
7	1100113	DIODE D662	20
6	1001610	CAP. .01UF, 100V, 20% DISC	9
5	1000076	CAP. 39UF, 10V, 10% S. TANT	2
4	5009291	ETCHED CIRCUIT BOARD	1
3	B-MH-M952-0-6	MODULE ECO HISTORY	
2	C-AH-M952-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M952-0-4	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645		

REVISIONS

CHK	CHG NO	REV
	00001	B

DRN J. Cooper 11/13/70
CHK'D 12-24-70
ENG 12-28-70
PROG

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE LEVEL TERMINATOR M952

SIZE	CODE	NUMBER	REV.
C	CS	M952-0-1	B

PRINTED CIRCUIT REV. C

REV. B
CS M952-0-1

DEC FORM NC
DRC 102

1159B5

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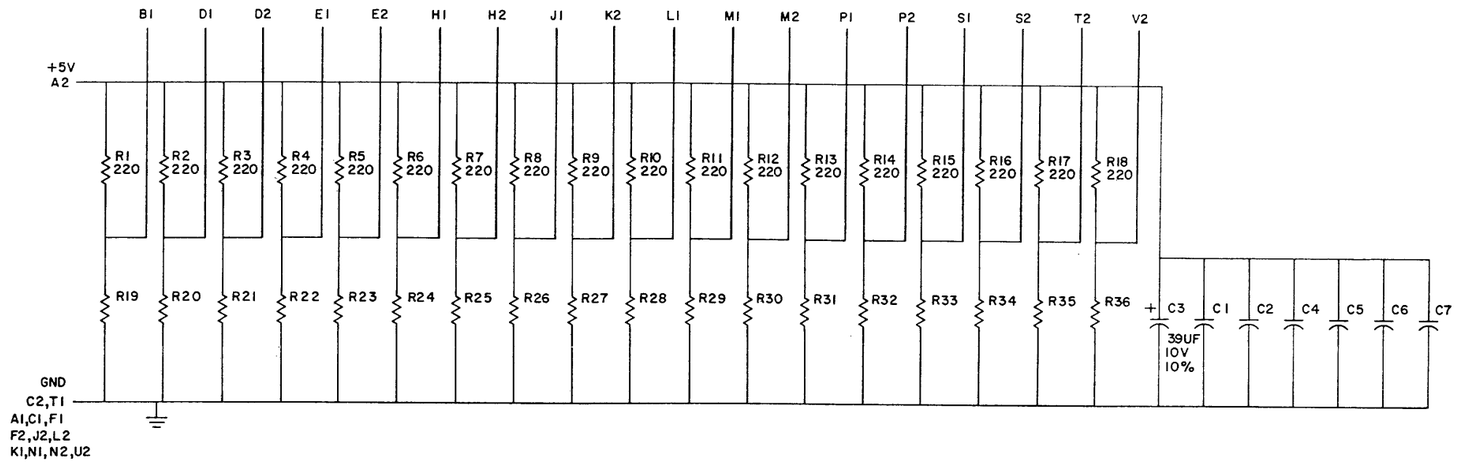
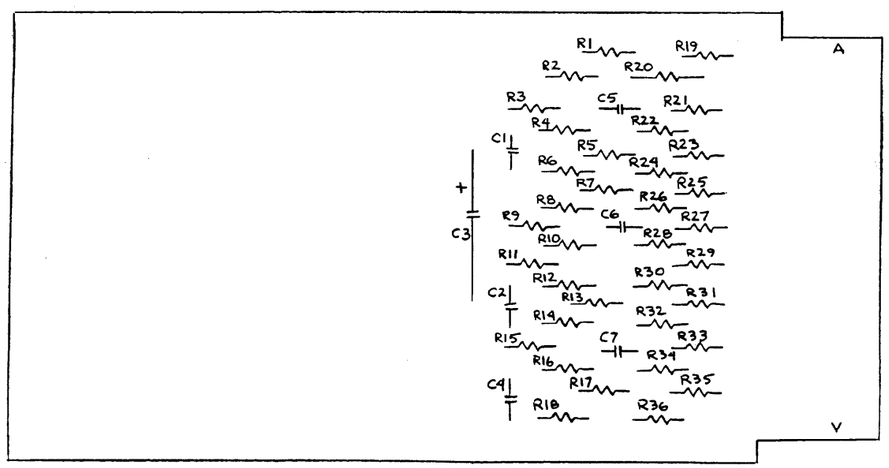


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 330,1/4W,5%
CAPACITORS ARE .047 UF,16V,50-20%



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
10	9008337-06	HANDLE, FLIP CHIP - MAGNETA	1
9	9006732	EYELET #GS 4-7	2
8	1300295	RES. 330, ¼W, 5%	18
7	1300271	RES. 220, ¼W, 5%	18
6	1009678	CAP. .047UF, 16V, 50-20%	6
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009285	ETCHED CIRCUIT BOARD	1
3	B-MH-M956-0-6	MODULE ECO HISTORY	
2	C-AH-M956-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M956-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

SIZE C | CODE CS | NUMBER M956-0-1 | REV. A

REVISIONS

CHK	CHG NO.	REV.

DRN	A. COOPER	DATE 12/4/70
CHK'D	[illegible]	DATE 1-12-71
ENG	P. Sullivan	DATE 1-12-71
PROD		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: 18 TERMINATORS M956

SIZE	CODE	NUMBER	REV.
C	CS	M956-0-1	A

PRINTED CIRCUIT REV. B

DEC FORM NO
DRC 102

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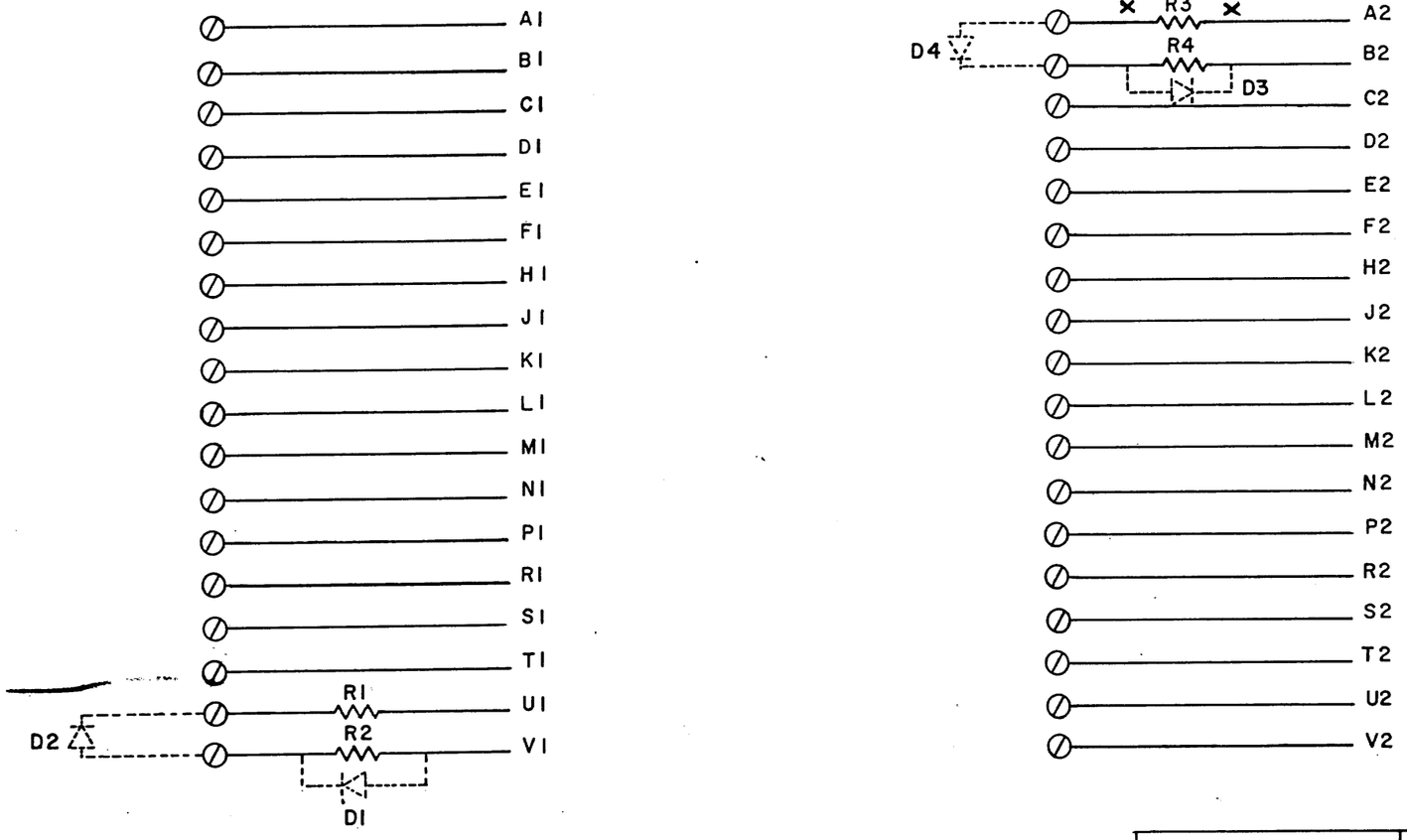

NOTE:
1. DOTTED LINES INDICATE YA VERSION ONLY.
   R4 & R2 ARE DELETED IN THE YA VERSION.
2. X LINES INDICATE YB VERSION ONLY.
   R3 IS REPLACED BY JUMPER.

M957-YB	R3=0 Ω R1=10 Ω 1/4W 5%	10 1/4W 5%
M957-YA	1K 1/8W ±1%MF	D664
M957	10 1/4W 5%	10 1/4W 5%
VARIATION	R1 & R3	D1, D2, D3, D4 R2 & R4

REVISIONS

CHK	CHG NO.	REV.	
R.C.	00001	A	B. Parker 2-21-72
R.C.	00002	B	F. STRAIGHT
	00003	C	F.S. MWK 7-24-72
	00004	D	R.C. 10-2-72
	00005	E	R. CARNEY 10-5-72
			Beasley 12-6-72
			CARNEY

DRN	Gilmartin	DATE 10/21/70
CHK'D	M. Waller	DATE 10/27/70
ENG.	V Bortoni	DATE 11/20/70
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE CABLE CONNECTOR M957

SIZE	CODE	NUMBER	REV.
B	CS	M957-0-1	E

PRINTED CIRCUIT REV. C

DEC FORM NO.
DRB 102

D157, 324, 434, 452

4 PINK - ...

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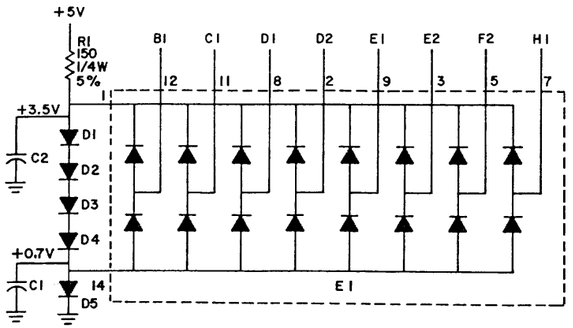
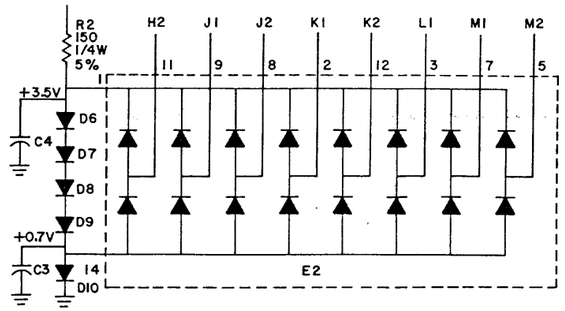
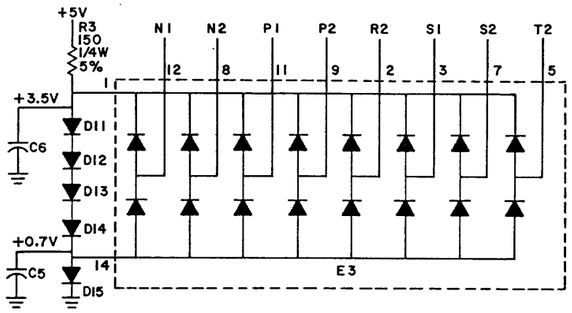
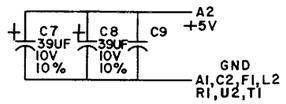
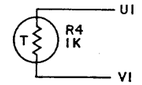


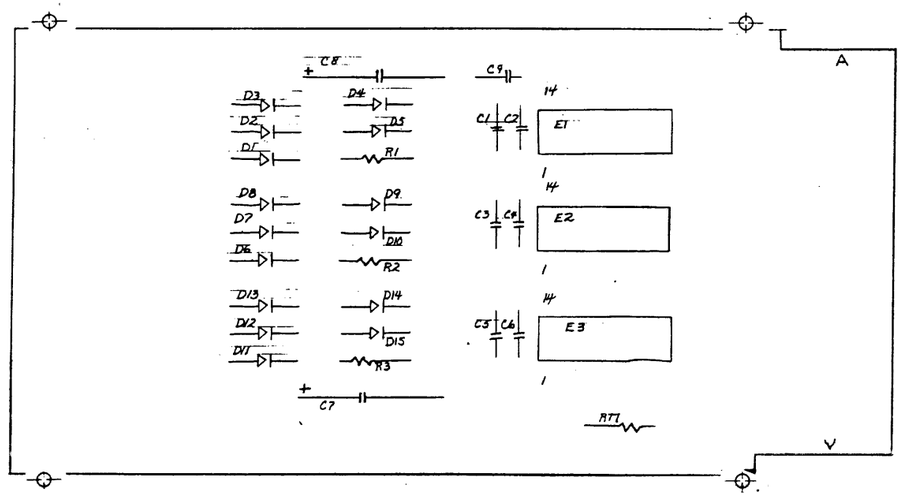








UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01UF, 100V, 5%
DIODES ARE D662
IC'S ARE DEC2501
THERMISTOR = DEC1310071



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
10	1910011	I.C.- DEC2501M	3
9	1310071	THERMISTOR 1K ±1% 75°F - 25°C	1
8	1300250	RES. 150 ¼W 5%	3
7	1100113	DICDE D662	15
6	1001610	CAP. .01UF 100V 20% DISC	7
5	1000076	CAP. 39UF 10V 10%	2
4	5009532	ETCHED CIRCUIT BOARD	1
3	B-MH-M969-0-1	MODULE HISTORY	
2	C-AH-M969-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-M969-0-6	X-Y COORDINATE HOLE LOCATION	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	1N3606		

REVISIONS: REV. | CHK | CHG NO.

DRN. J. Cotter DATE 4/30/71
CHK'D DATE 4/2/71
ENG. DATE 4/27/71
PROD DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 24 LEVEL TERMINATORS AND THERMISTOR
SIZE C | CODE CS | NUMBER M969-0-1 | REV. A
PRINTED CIRCUIT REV. B

REV. A | NUMBER M969-0-1 | SIZE C | CODE CS

DEC FORM NO. DRC 102

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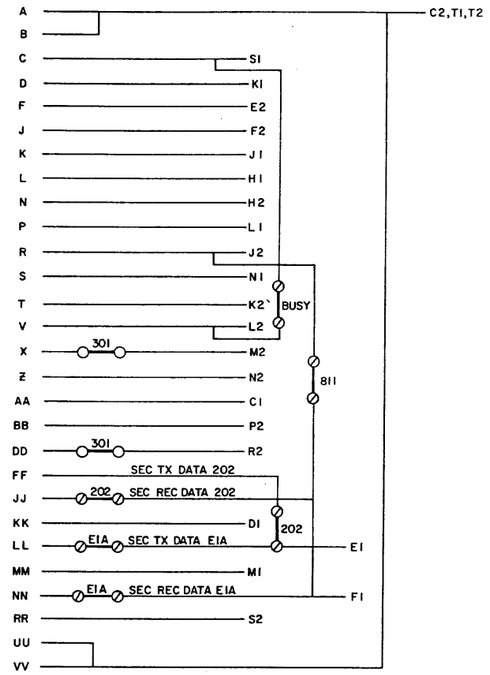
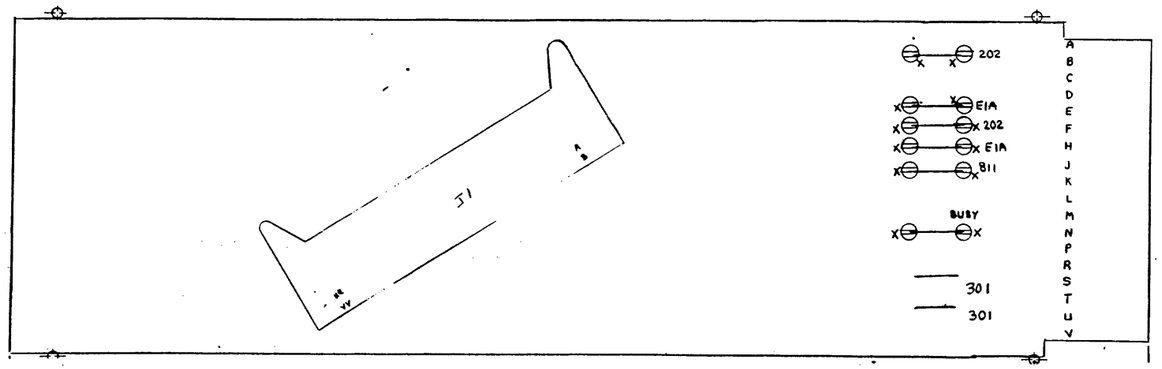
1. FUNCTIONS OF MODEM JUMPERS (WHEN INSTALLED)
   - A. E1A — SECONDARY TRANSMIT & RECEIVE DATA LINES TO E1A PINS 14 & 16
   - B. 202 — SECONDARY TRANSMIT & RECEIVE DATA LINES TO E1A PIN 11 & 12
   - C. 301 — ALLOW OPERATION OF RING AND DATA TERMINAL READY FUNCTIONS WITH BELL 303 SERIES
   - D. 811 — BELL 811B RESTRAINT FUNCTION IS MONITORED BY SECONDARY RECEIVE
   - E. BUSY — BELL 811B FORCE BUSY FUNCTION ANDED WITH REQUEST TO SEND
2. 301 — REMOVE FOR BELL 301 USE ONLY





ITEM NO.	QTY.	REF. DESIGNATION	DESCRIPTION	DEC PART NO.
			PARTS LIST	
1			HANDLE, FLIP CHIP - MAGENTA	9008337-06
12			SPLIT LUGS	9006735
2			EYELETS	9006732
1		J1	CONN 40P RT ANG HEADER	1209941
1			ETCHED CIRCUIT BOARD	5009752
			MODULE ECO HISTORY	B-MH-M970-0-6
			ASSY/DRILLING HOLE LAYOUT	D-AH-M970-0-5
			X-Y COORDINATE HOLE LOCATION	K-CO-M970-0-4

REVISIONS			
CHR	CHG NO	REV	

DRN. S. Cooper DATE 10-5-71
CHK'D D. Iali DATE 10-5-71
ENG. R. Smith DATE 10/6/71
PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: CABLE INTERFACE BD. #1

SIZE	CODE	NUMBER	REV
D	CS	M970-0-1	C

PRINTED CIRCUIT REV. D

DEC FORM NO. BMB 1H

SIZE D | CODE CS | NUMBER M970-0-1 | REV C

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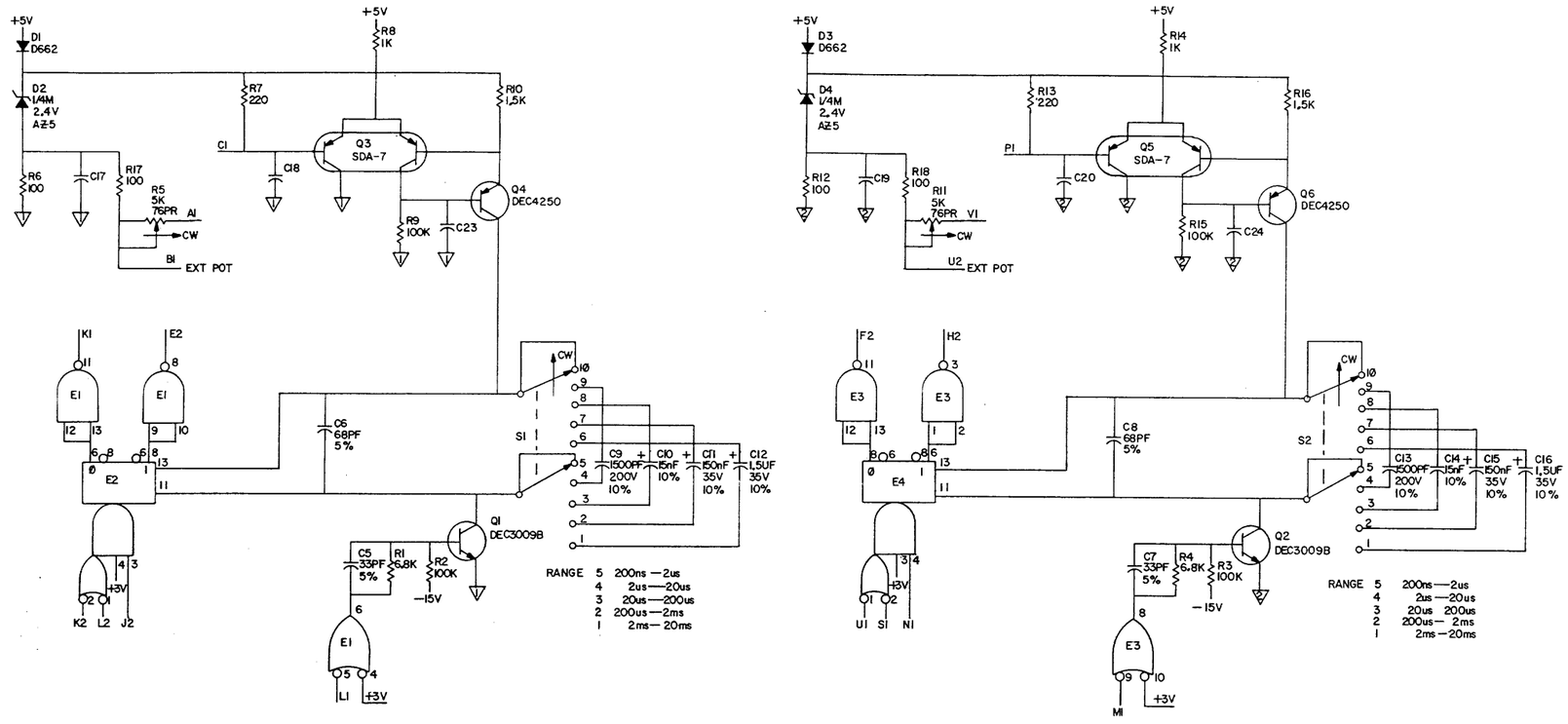

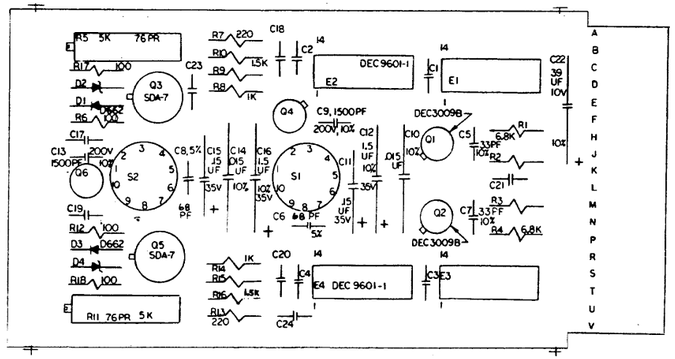

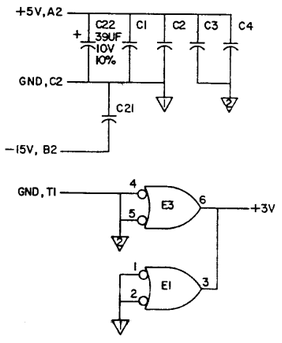

UNLESS OTHERWISE INDICATED:
CAPACITORS = .01UF, 100V, 20%
RESISTORS = 1/4W, 5%
S1, S2 = SPECTROL 82-21-25
E1, E3 = DEC1074H00
E2, E4 = DEC9601-1

PIN 7 = GND ON ALL IC'S
PIN 14 = +5V

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
29	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
28	9006732	EYELET #GS4-7	2
27	1910407	I.C. DEC 9601-1	2
26	1910462	I.C. DEC1074H00	2
25	1509142	TRANSISTOR 2N4250	2
24	1403100	TRANSISTOR DEC 3009B	2
23	1501901	TRANSISTOR SDA-7-S	2
22	1309143-09	POTENTIOMETER 5K 76PR 3/4W 10%	2
21	1302466	RES. 100K 1/4W 5%	4
20	1301423	RES. 6.8K 1/4W 5%	2
19	1300391	RES. 1.5K 1/4W 5%	2
18	1300365	RES. 1K 1/4W 5%	2
17	1300271	RES. 220 1/4W 5%	2
16	1300229	RES. 100 1/4W 5%	4
15	1209806	SWITCH, SPECTROL 87-21-25	2
14	1101938	DIODE 1/4W 2.4 AZ5	2
13	1100113	DIODE D662	2
12	1009725	CAP. 1.5UF 35V 10%	2
11	1002630	CAP. .015UF 100V 10%	2
10	1002180	CAP. .15UF 35V 20%	2
9	1001610	CAP. .01UF 100V 20%	11
8	1000076	CAP. 39UF 10V 10%	1
7	1000054	CAP. 1500PF 200V 10%	2
6	1000014	CAP. 68PF 100V 5%	2
5	1000009	CAP. 33PF 100V 5%	2
4	5009544	ETCHED CIRCUIT BOARD	1
3	B-MAK-M3070-0-6	MODULE ECO HISTORY	
2	C-AH-M3070-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CC-M3070-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS: CHR | CHG NO | REV | C | 00001 | DREW

DRN NANCY MOORE DATE 4-2-71
CHK'D DATE
ENG DATE 4-2-71
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	1N645	AZ5	1N4370
DEC4250	2N4250	SDA-7	
DEC3009B	2N3009		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: INTEGRATING ONE SHOT

SIZE D | CODE CS | NUMBER M3070-0-1 | REV C

PRINTED CIRCUIT REV. C

NEXT ASSY M7030-0-1 | REV D | CODE CS | NUMBER M7030-0-1 | REV C

DEC FORM NO. DRD 118

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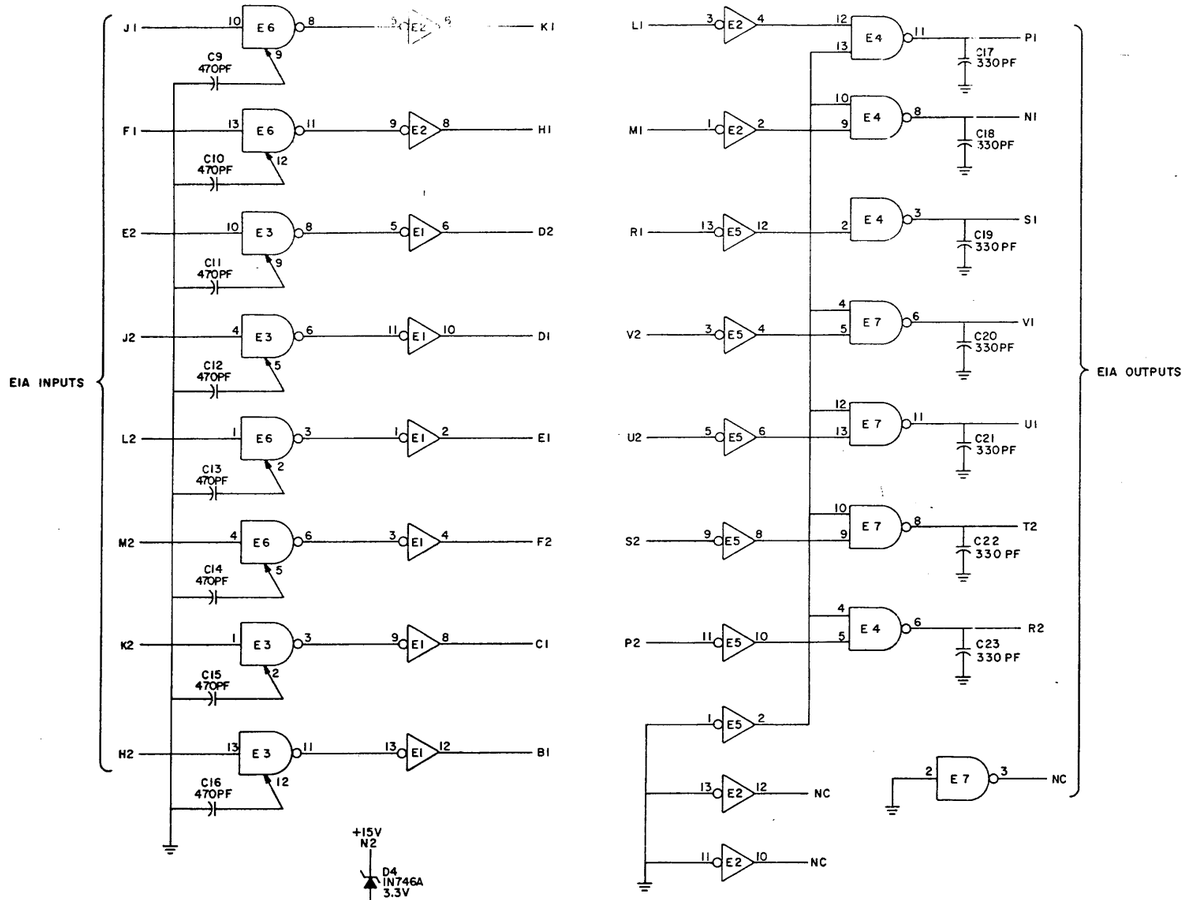

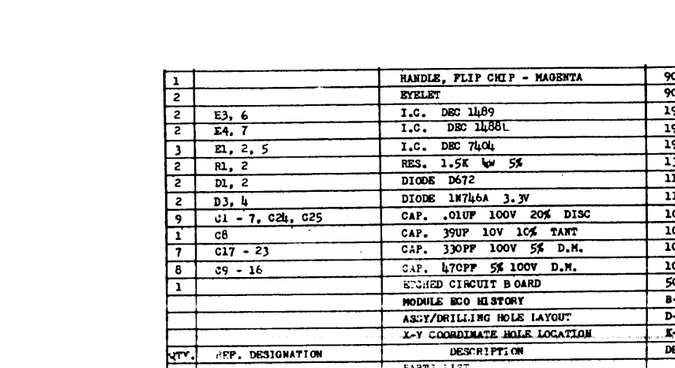

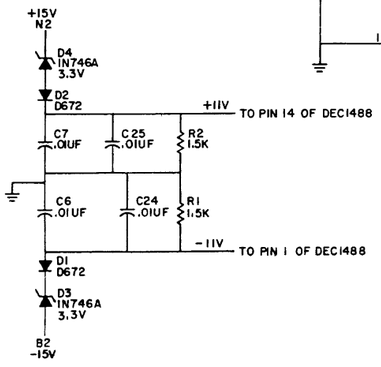

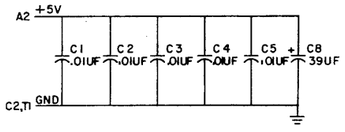

UNLESS OTHERWISE INDICATED:

DEC1489 = E3 & E6
DEC7404 = E1, E2 & E5
DEC1488 = E4 & E7
GND = PIN 7
+5V = PIN 14 ON E1, E2, E3, E5 & E6

QTY.	REF. DESIGNATION	DESCRIPTION	DEC PART NO.	ITEM NO.
		PARTS LIST		
		MODULE ECO HISTORY	B-MH-M5940-0-6	3
		ASSY/DRILLING HOLE LAYOUT	D-AH-M5940-0-5	2
		X-Y COORDINATE HOLE LOCATION	X-CO-M5940-0-4	1
1		PRINTED CIRCUIT BOARD	5009702	4
8	C9 - 16	CAP. 470PF 5% 100V D.M.	1000024	5
7	C17 - 23	CAP. 330PF 100V 5% D.M.	1000023	6
1	C8	CAP. 39UF 10V 10% TANT	1000076	7
9	C1 - 7, C24, C25	CAP. .01UF 100V 20% DISC	1001610	8
2	D3, 4	DIODE 1N746A 3.3V	1104860	9
2	D1, 2	DIODE D672	1105275	10
2	R1, 2	RES. 1.5K ¼W 5%	1300391	11
3	E1, 2, 5	I.C. DEC 7404	1909686	12
2	E4, 7	I.C. DEC 1488L	1910322	13
2	E3, 6	I.C. DEC 1489	1910323	14
2		EYELET	9006732	15
1		HANDLE, FLIP CHIP - MAGENTA	9008337-06	16

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D672	1N3653		
IN746A	SAME		

REVISIONS			
CHM	CHG NO	REV	
	00001	B	

DRN S. COOPER DATE 4/13/71
CHK'D W. WALTON DATE
ENG DATE
PROD DATE

TITLE: EIA LEVEL CONVERTER

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

SIZE D | CODE CS | NUMBER M5940-0-1 | REV B

PRINTED CIRCUIT REV. B

M5940-0-1 REV B

DEC FORM NO. DSD 110

161

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UNLESS OTHERWISE INDICATED:
RESISTORS = 1/4W, 5%
CAPACITORS = .01UF, 100V, 20%
DEC7401 = E6, E7, E11
DEC9601 = E3
DEC7404 = E8, E13, E17
DEC7475 = E1, E4
DEC7474 = E5, E15, E18
DEC7400 = E2, E9, E16, E19
DEC7410 = E10
DEC7430 = E14
DEC7440 = E12
PIN 12 = GND ON E1, E4
PIN 5 = +5V
PIN 7 = GND ON ALL OTHER IC'S
PIN 14 = +5V ON ALL OTHER IC'S

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
MPS6531	MPS6531	D664	IN3606

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: READER CONTROL

SIZE D | CODE CS | NUMBER M7050-0-1 | REV C
PRINTED CIRCUIT REV. D

REVISIONS: CHG NO. 30001, REV C

DRN MARY MOORE DATE 1/13/71
CHKD DATE 2-24-71
ENG DATE
PROD DATE

DEC FORM NO. 2100 1/70

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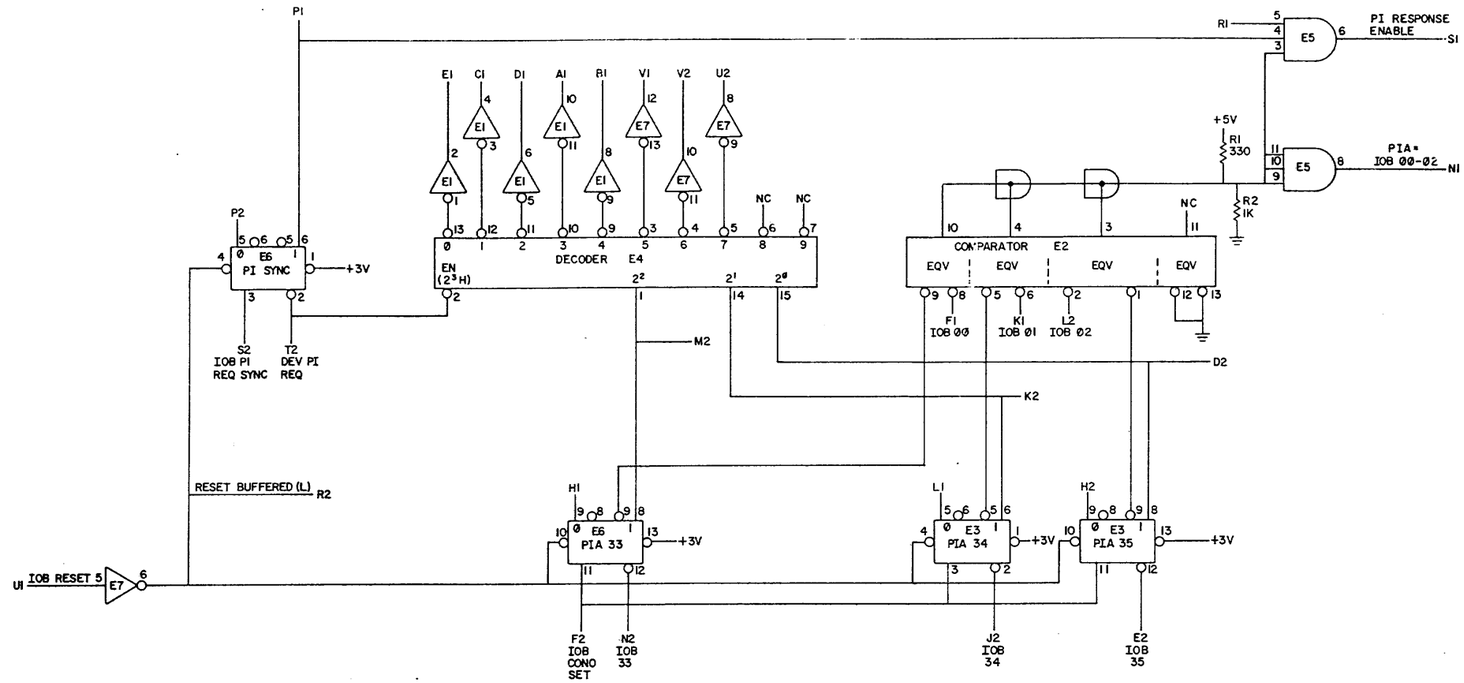
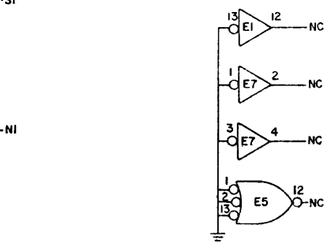
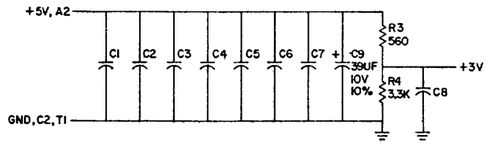
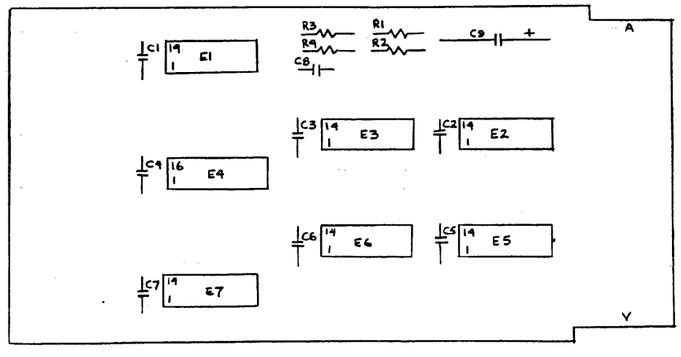






UNLESS OTHERWISE INDICATED:

- E1, E7 = DEC1074H04
- E5 = DEC1074H11
- E4 = DEC8251
- E2 = DEC8242
- E3, E6 = DEC1074H74
- PIN 7 = GND ON E1-E3, E5-E7
  PIN 14 = +5V
- PIN 8 = GND ON E4
  PIN 16 = +5V
- CAPACITORS = .01UF, 100V, 20%
- RESISTORS = 1/4W, 5%



17	9008337-06	HANDLE, FLIP CHIP - MAGENTA	1
16	9006732	EYELET 6GS 4-7	2
15	1910463	I.C. DEC1074H04	2
14	1909712	I.C. DEC 8242	1
13	1910558	I.C. DEC1074H74	2
12	1909594	I.C. DEC 8251	1
11	1910465	I.C. DEC1074H11	1
10	1301890	RES. 560, 4W, 5%	1
9	1300439	RES. 3.3K, 4W, 5%	1
8	1300365	RES. 1K, 4W, 5%	1
7	1300295	RES. 330, 4W, 5%	1
6	1001610	CAP. .01UF, 100V, 20%	6
5	1000076	CAP. 39UF, 10V, 10% S. TANT	1
4	5009374	ETCHED CIRCUIT BOARD	1
3	B-MH-M710C-0-6	MODULE ECO HISTORY	
2	C-AA-7100-0-5	ASSY/DRILLING HOLE LYAOUT	
1	B-CS-M7100-0-4	X-Y COORDINATE HOLE LOCATION	
ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.

PARTS LIST

REVISIONS: COM | CHG NO | REV | DATE | BY
B WALTON 12/19/70

DRAWN NANCY MOORE 12/19/70
CHKD 3-16-71
ENGR 1-11-71
APPROVED

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

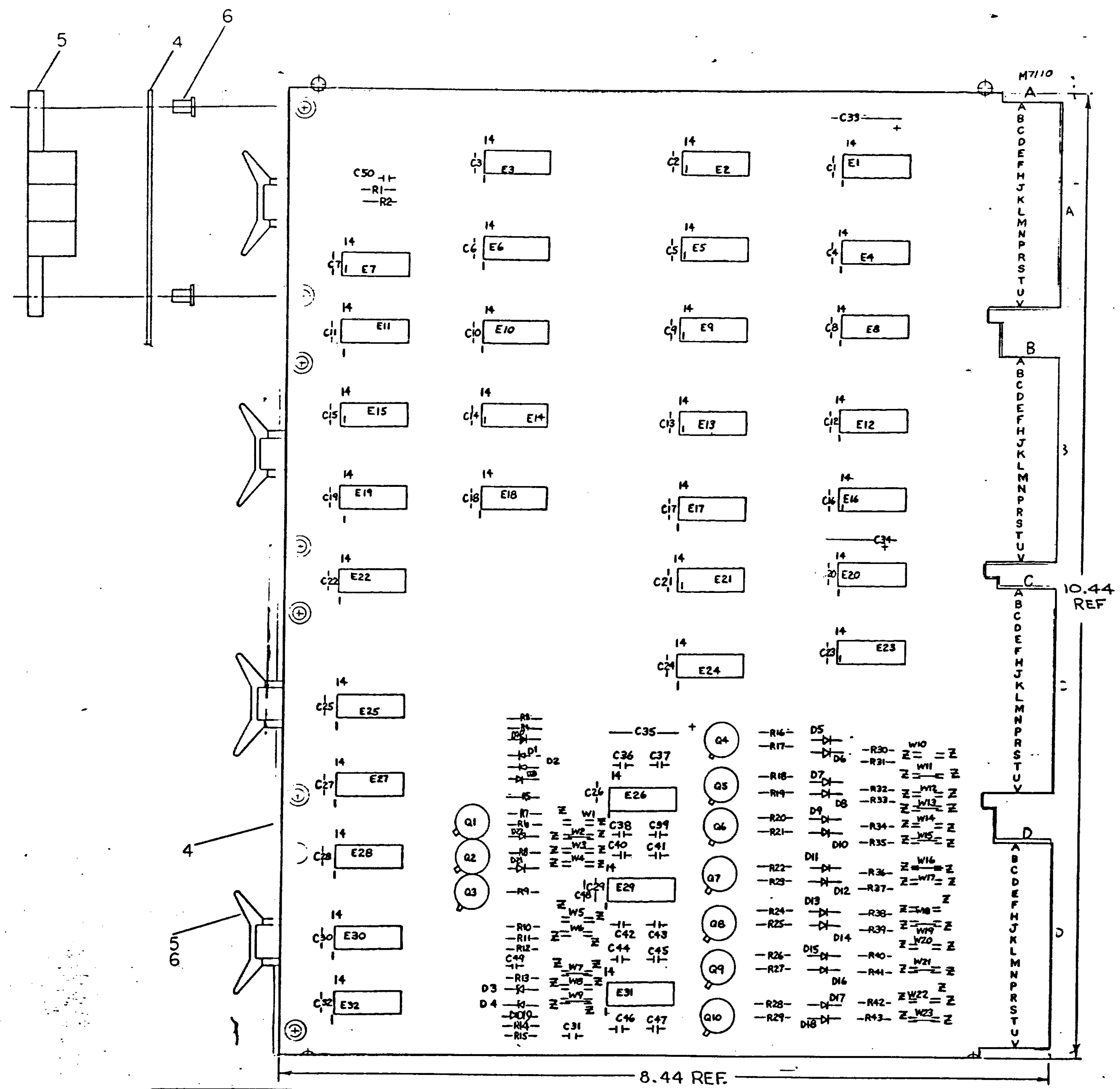
TITLE: IO DEVICE CONTROL M7100

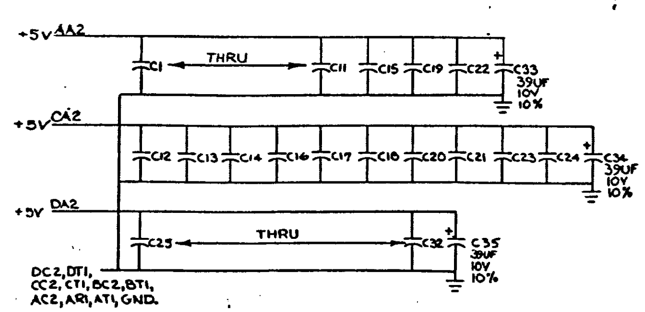
SIZE D | CODE CS | NUMBER M7100-0-1 | REV C

PRINTED CIRCUIT REV. B

M7100-0-1

NOTES:
1. UNLESS OTHERWISE NOTED:
   CAPACITORS ARE 100V 20%
   RESISTORS ARE 1/4W 5%
2. * INDICATES OPTIONAL JUMPERS
   SEE NOTE ON SHEET 3





ITEM NO	AWG	FROM PT	TO PT	
34	22	W23	W23	
34	22	W22	W22	*
34	22	W21	W21	
34	22	W20	W20	*
34	22	W19	W19	
34	22	W18	W18	*
34	22	W17	W17	*
34	22	W16	W16	
34	22	W15	W15	
34	22	W14	W14	*
34	22	W13	W13	
34	22	W12	W12	*
34	22	W11	W11	
34	22	W10	W10	*
34	22	W9	W9	
34	22	W8	W8	*
34	22	W7	W7	
34	22	W6	W6	*
34	22	W5	W5	*
34	22	W4	W4	*
34	22	W3	W3	*
34	22	W2	W2	
34	22	W1	W1	* SEE NOTE 2

JUMPER LIST

IC TYPE		GND	+5V
MC1488	PIN 1 -9.4V	7	PIN14 +9.4V

GND AND 5V ARE USUALLY PIN 7 AND 14 RESPECTFULLY, EXCEPTIONS ARE STATED ABOVE

IC PIN LOCATIONS

QTY.	REF DESIGNATION	DESCRIPTION	PART NO.	ITEM NO.
A/R		WIRE, #22 AWG SOLID BUS	9107560-01	34
46		SPLIT LUGS	9006735	33
2	E26, 31	IC MC1489L	1910323	32
1	E29	IC MC1488L	1910322	31
2	E10, 14	IC DEC 3001	1909514	30
7	E2, 5, 9, 13, 12, 21, 29	IC DEC 1074H74	1910553	29
2	E7, 18	IC DEC 1074H11	1910465	28
5	E3, 19, 27, 30, 32	IC DEC 7450	1905580	27
4	E6, 11, 25, 28	IC DEC 7404	1909686	26
7	E1, 4, 8, 12, 16, 20, 23	IC DEC97401	1909973	25
2	E15, 22	IC DEC 7400	1905575	24
10	Q1-Q10	TRANS. DEC 3009 B	1503100	23
1	R2	RES. 330, 1/4W, 5%	1300295	22
1	R1	RES. 750, 1/4W, 5%	1301401	21
7	R30, 32, 34, 36, 38, 40, 42	RES. 68K, 1/4W, 5%	1301327	20
7	R16, 18, 20, 22, 24, 26, 28	RES. 15K, 1/4W, 5%	1300496	19
10	R5, 12, 13, 31, 33, 35, 37, 39, 41, 43	RES. 1.5K, 1/4W, 5%	1300391	18
7	R3, 4, 7, 8, 9, 14, 15	RES. 220, 1/4W, 5%	1300271	17
7	R17, 19, 21, 23, 25, 27, 29	RES. 100, 1/4W, 5%	1300229	16
3	R6, 10, 11	RES. 39, 1/4W, 5%	1302377	15
2	D19, 20	DIODE DEC 672	1105275	14
4	D1-D4	DIODE 1N750A	1100124	13
10	D6, 8, 10, 12, 14, 16, 18, 21, 22, 23	DIODE DEC 664	1100114	12
7	D5, 7, 9, 11, 13, 15, 17	DIODE DEC 662	1100113	11
35	C1-C32, C48, 49, 50	CAP .01UF. 100V, 20% DC.	1001610	10
3	C33-C35	CAP. 39UF. 10V, 10% STANT	1000076	9
4	C38, 40, 42, 43	CAP. 330PF. 100V, 5% D.M.	1000023	8
8	C36, 37, 39, 41, 44, 45, 46, 47	CAP. 470PF. 100V. 5% D.M.	1000024	7
8		EYELET 654-7 E.B.STIMPSON	9006732	6
4		HANDLE FLIP CHIP-MAGENTA	9008337-06	5
1		ETCHED CIRCUIT BOARD	5009621	4
REF		MODULE HISTORY	B-MH-M7110-0-6	3
REF		ASSY/DRILLING HOLE LAYOUT	D-AH-M7110-0-5	2
REF		X-Y COORDINATE HOLE LOC.	K-CO-M7110-0-4	1

PARTS LIST

ETCH BOARD REV D

DEC NO	EIA NO
DEC 3009B	2N3009
DC672	1N3653
1N750A	SAME
DC664	1N3606
DC662	1N645

SEMICONDUCTOR CONVERSION CHART

REVISIONS: D — ORIGINATED — M7110-0-0001 — B.WALTON

DIGITAL EQUIPMENT CORPORATION

TITLE: SYNCHRONOUS MODEM INTERFACE MODULE FOR DS11

FIRST USED ON: DS11

NUMBER: M7110-0-1

SCALE 1/1 — SHEET 1 OF 3

M7110-0-1

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LX LINE RING ALLOW AJ2 · LX LINE LINE SIG AH2 · LX LINE CLEAR TO SEND AE2 · LX LINE TRAN ERROR AF2 · LX LINE DATA SET RY AN2 · LX LINE OUTPUT REQ AL2 · LX LINE REQ TO SEND AN1 · LX LINE DATA TERM RY BP2 · LX LINE RING BR2 · LX RING · LX LINE RECEIVE BN2 · LX LINE REC ERROR BM1 · LX LINE DATA OUT CH2 · LX LINE INPUT REQ CE1

AI AX ADAP SEL AR2 · +3V · AI LINE X SEL AS2 · E3 · LX SEL · E6 · DSX LINE SIG · DSX CLEAR TO SEND · DSX DATA SET RY · LX OUTPUT REQ

LX IP RING ALLOW CJ1 · LX IP LINE SEL BA1 · LX IP CLEAR TO SEND AV2 · LX IP TRAN ERROR AU2 · LX IP DATA SET RY BH2 · LX IP OUTPUT REQ BK2 · LX IP REQ TO SEND BF1 · LX IP DATA TERM RY CD2 · LX IP RING BV2 · LX IP RECEIVE BU2 · LX IP RECEIVE ERROR BT2 · LX IP INPUT REQ CF1

~LX SEL · ~DSX CLEAR TO SEND · ~DSX DATA SET RY · ~LX OUTPUT REQ · RING ALLOW(1) · ~LX RING · DSX RING

AI ADAP X SEL AK2

AJ1 · AD2 · AM2 · BP1 · BN1 · BM2 · CJ2 · CF2

LX INIT · AI RING ALLOW BB1 · LX TRAN RESET · ~LX TRAN DATA ALLOW · AM1 · AK1 · BE2

RING ALLOW E9 · TRAN DATA E2 1 · TRAN ERROR E2 · TRAN DATA E5 2 · TRAN DATA FULL E5 · REQ TO SEND E9 · DATA TERM RY E13 · RTS ALLOW E13 · RECEIVE E17 · REC ERROR E17 · REC DATA E21 · REC DATA FULL E21

LX TRAN DATA 1 (4)

DSX TRAN CLOCK

DSX REC DATA · ~DSX REC CLOCK · BS2 AI RECEIVE · BF2 AI RTS · BK1 AI DTR

~LX TRAN RESET · ~DSX CLEAR TO SEND · LX OUTPUT REQ · E7 · E14 · BJ2 AI LOAD ODD STATUS · E6 · LX OUTPUT REQ

E15 · E10 · BC1 AI OUTPUT DATA · ~LX REC DATA FROM SC · LX TRAN DATA ALLOW · E11 · LX REC DATA FROM SC · E18 · E10 · E14 · E15 · BL1 IP LINE REQ ALLOW · LX DATA RESET

ALL SIGNALS ORIGINATING ON THIS DRAWING ARE SUFFIXED WITH LX

LX SEND DATA TO SC · E19 · E15 · E14 · E18 · E3 · E11 · LX ADD1 · ~LX ADD1 · ~LX DATA RESET

LX SEL · BE1 AI LOAD STATUS · BD1 AI SEND DATA TO SC · BD2 AI REC DATA FROM SC

AA2 +5V · R2 330 · R1 750 · AD1 +3V, SOURCE · C50 .01UF · +3V

CK2 · E11 · LX INIT · AI ADD1 ALI

LX DATA TERM RY (1) · ~LX SEND DATA TO SC · LX RECEIVE (1)

LX REQ TO SEND (Ø) · MESSAGE END E24 · CD1 AI MESSAGE END · AI INITIALIZE ABI

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "O" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS | REV. | CHANGE NO. | CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS: .XXX = .005, .XX = .02, .X = .1 · ANGLES: ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL · FINISH

DRN. NANCY Moore DATE 5-18-71
CHK'D. DATE
ENG. DATE 6/08/71
PROJ. ENG. DATE 6-7-71
PROD. DATE
NEXT HIGHER ASSY.
SCALE NONE
SHEET 2 OF 3

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE
SYNCHRONOUS MODEM INTERFACE MODULE FOR DS11 (LX)

SIZE	CODE	NUMBER	REV.
D	CS	M7110-0-1	D

DIST.

DEC FORM NO (DRD 102-B)

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LX TRAN DATA 2 (1)
LX REQ TO SEND (1)
LX DATA TERM RY (1)
~DSX DIAG
AI DIAG
AI DIAG CLOCK
DSX DIAG
LX RING ALLOW (1)
DSI
LX REQ TO SEND (1)
LX TRAN DATA 2 (1)
LX DATA TERM RY (1)

DSX LINE SIG
DSX RING
DSX REC CLOCK
DSX CLEAR TO SEND
DSX REC DATA
DSX TRAN CLOCK
DSX DATA SET RY
DSX RTS
DSX DTR
DSX TRAN DATA

NOTE:
ALL SIGNALS ORIGINATING ON THIS DRAWING ARE SUFFIXED WITH DSX.
⌀—⌀ REPRESENTS JUMPERS PUT IN THE BOARD WHEN PRODUCED. THESE JUMPERS ARE IN THE EIA POSITION. THE LETTER E IS ETCHED ON THE BOARD NEAR THESE JUMPER POSITIONS.
⌀--⌀ REPRESENTS OPTIONAL JUMPERS TO BE PUT IN WHEN USING A BELL 300 SERIES MODEM. WHEN THESE JUMPERS ARE PUT IN THE ORIGINAL EIA JUMPERS MUST BE REMOVED. THE LETTER I (CURRENT) IS ETCHED ON THE BOARD NEAR THESE JUMPER POSITIONS.

NOTE
ALL SIGNAL NAMES ON THIS SHEET CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES "0" ARE AS IF SUFFIXED WITH "L". ALL SIGNAL NAMES ON THIS SHEET NOT CONNECTED TO LOW ASSERTION DESIGNATION CIRCLES ARE AS IF SUFFIXED WITH "H".

REVISIONS	REV	CHANGE NO	CHK

FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES. TOLERANCES
DECIMALS .XXX = .005 .XX = .02 .X = .1 ANGLES ±0° 30'
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓
MATERIAL
FINISH

DRN.	NANCY MOOKE	DATE 5-18-11
CHK'D.		DATE
ENG.		DATE
PROJ. ENG.		DATE
PROD.		DATE
NEXT HIGHER ASSY.		
SCALE		
SHEET 3 OF 3		

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

TITLE: SYNCHRONOUS MODEM INTERFACE MODULE FOR DS11 (DSX)

SIZE	CODE	NUMBER	REV.
D	CS	M7110-0-1	D

DIST.

DRD 102-B

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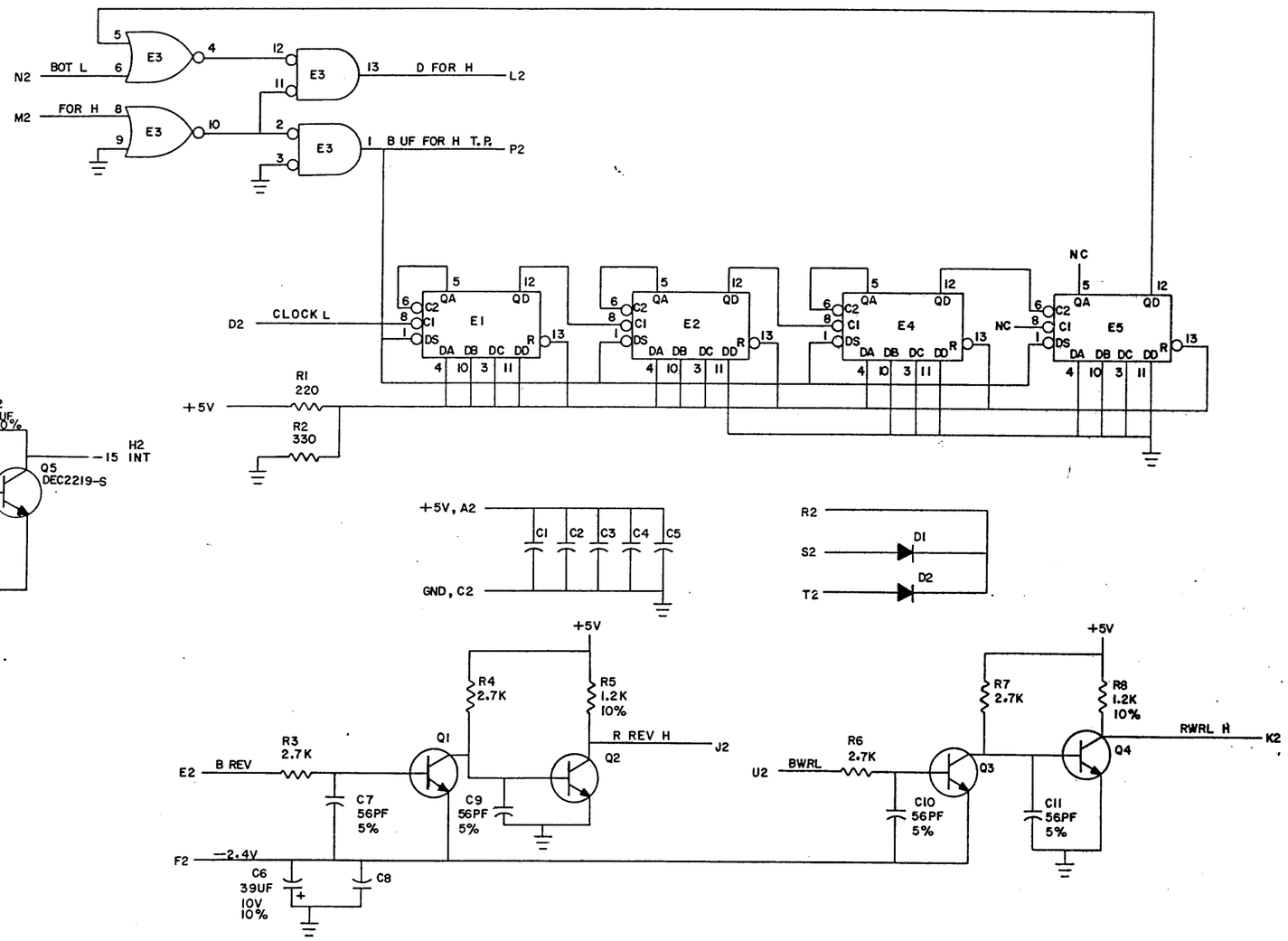

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
DIODES ARE IN4001
TRANSISTORS ARE DEC3009B
DEC7402 = E3
DEC74197 = E1, E2, E4, E5
PIN 7=GND
PIN 14=+5V
ON ALL IC'S

REVISIONS	CHK	CHG NO.	REV.
		00001	B
		00002	C

DRN. George Wyatt DATE 1-12-71
CHK'D DATE 1-12-71
ENG DATE 1-12-71
PROD DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
IN4001	SAME	IN747A 3.6V	SAME
DEC2219	2N2219		
DEC6534D	MPS6534		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: FORWARD B.O.T. TIMER M7670

SIZE	CODE	NUMBER	REV.
C	CS	M7670-0-1	C

PRINTED CIRCUIT REV C

DEC FORM NC DRC 102

DIST, 324,4341,4352

4 PINK

SIZE C | CODE CS | NUMBER M7670-0-1 | REV C

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U1 INT A H
V1 INT ENB A H
R1 MASTER CLEAR A H
B1 BG IN A H
+5V, A2
GND, C2, T1
K2 INT B H
H2 INT ENB B H
S1 MASTER CLEAR B H
E1 BG IN B H
J2 EXT GND
C1 BUS SSYN L

BUS BR A L U2
BUS SACK L T2
BUS BBSY L D1
MASTER A L N1
BG OUT A H V2
BUS BR B L P1
MASTER B L S2
BG OUT B H A1

BUS D08 L K1
BUS D07 L H1
BUS D06 L F2
BUS D05 L F1
BUS D04 L N2
BUS D03 L L1
D2 VECTOR BIT 2
BUS D02 L E2
R2 START INTR A L
P2 START INTR B L
BUS INTR L M1
INTR DONE A H L2
INTR DONE B H M2

UNLESS OTHERWISE INDICATED
RESISTORS ARE 1.5K, 1/4W, 5%
CAPACITORS ARE .01 UF 100V, 20%
TRANSISTORS ARE DEC 3009B
E1, E3, E10, E12, E14 ARE DEC8881
E5, E7, E9, E11 ARE DEC7400
E4, E13 ARE DEC7474
E6, E8 ARE DEC7402
E2 IS DEC380

PIN 1 ON E2 = GND
PIN 8 ON E2 = +5V
PIN 7 ON E1, E3 - E14 = GND
PIN 14 ON E1, E3 - E14 = +5V
⊘ = SPLIT LUGS
—— = JUMPERS

REVISIONS			
SYM	CHG NO	REV	
FOR 00005		B	

DRN S. Cooper DATE 12/31/70
CHK'D DATE 1/6/71
ENG DATE 1/6/71
PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC30098	2N30098		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: INTERRUPT CONTROL M7820

SIZE	CODE	NUMBER	REV
D	CS	M7820-0-1	B

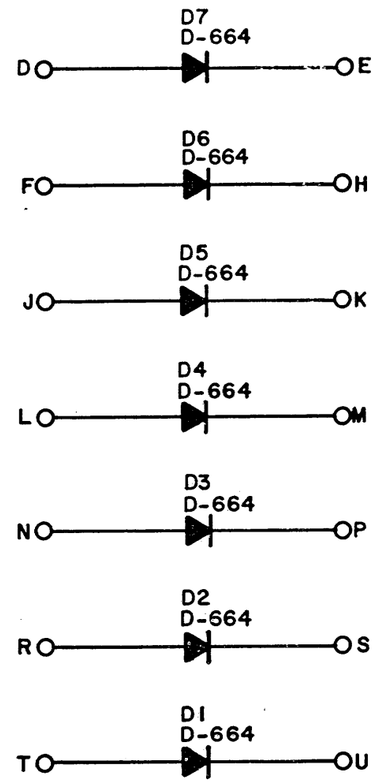
PRINTED CIRCUIT REV. B C

DIST. 8,24,434,435 2

PINK

REV B | NUMBER M7820-0-1 | SIZE CODE D CS

CS-B-R001



ECO. NO. / ENG.	REVISIONS	DRAFTSMAN H.W. PORTER DATE 10-13-64	CHECKER DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CODE CS	DWG. NO. B-R001	REV.
		ENGINEER DATE	PRODUCTION DATE	TITLE DIODE NETWORK R001			

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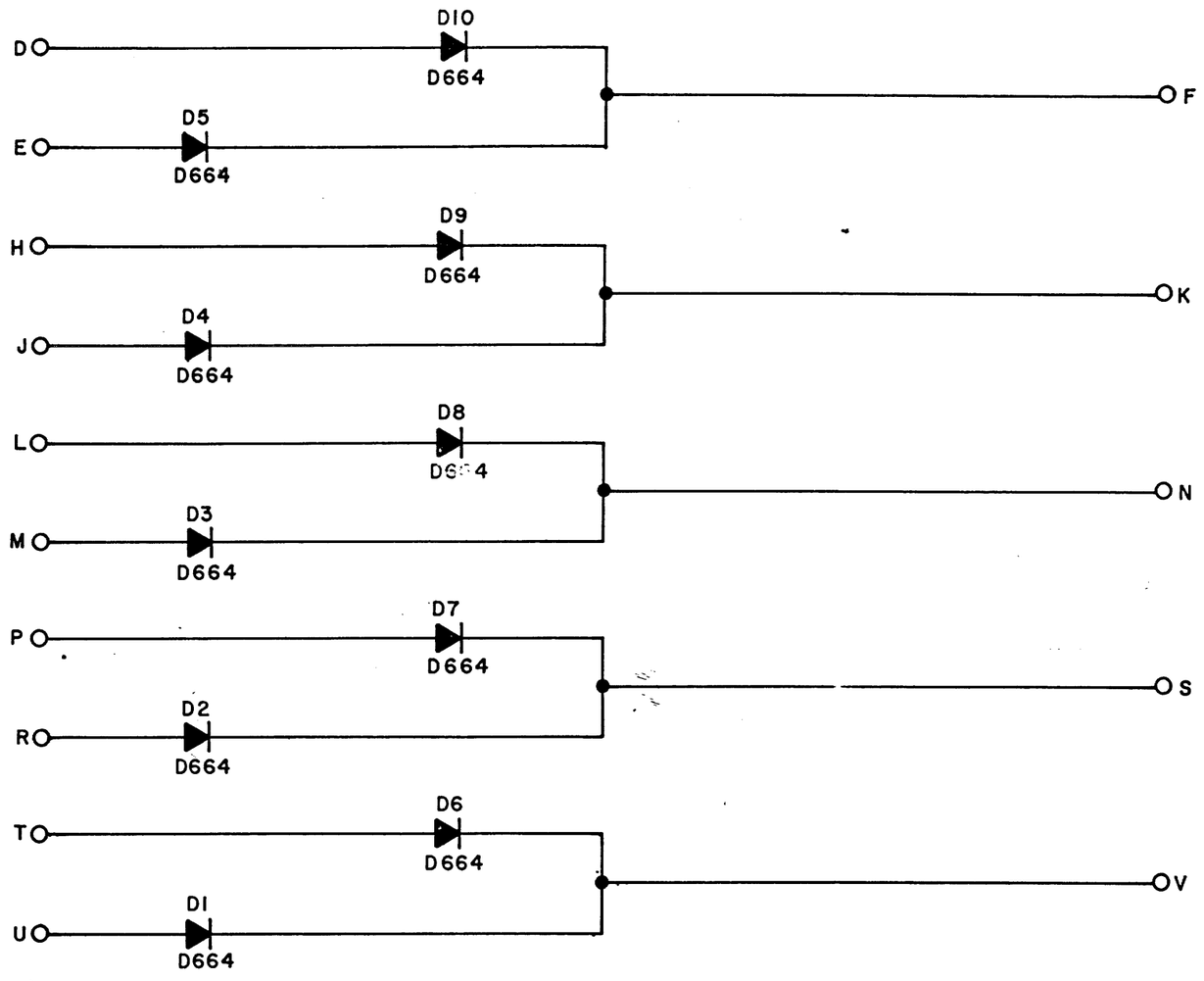

REVISIONS			
REV.			A
CHG NO.		REDR.	5537
CHK			

DRN.	H. PORTER	DATE 5-21-64
CHK'D	N. PERRYMAN	DATE 5-25-64
ENG.	R. BANK	DATE 5-25-64
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DIODE CLUSTER R002

SIZE	CODE	NUMBER	REV.
B	CS	R002-0-1	A

PRINTED CIRCUIT REV. B

DEC FORM NO.

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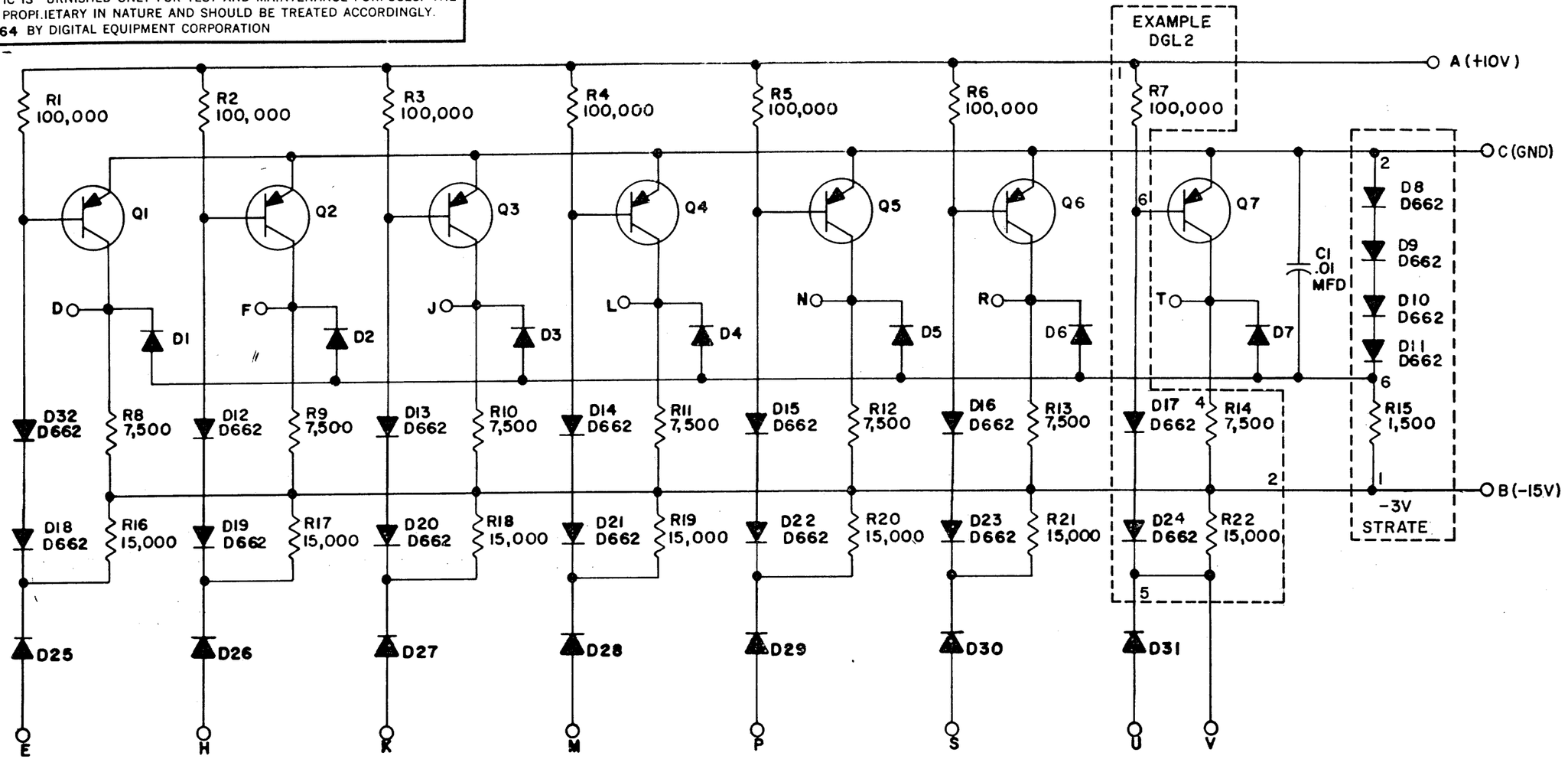

UNLESS OTHERWISE INDICATED;
RESISTORS ARE 1/4W, 5%
DIODES ARE D-664
TRANSISTORS ARE DEC 3639B
PRINTED CIRCUIT REV. FOR
DGL BOARD IS SIA

REVISIONS		
CHK	CHG NO.	REV.
DAW	4863	I
REV. & REDR.	Pms 5377 Dan Lin	D
Prod	5461	E
Prod	5685	F
Prod	6539	H
Prod	00001	J
M Moole 4-17-12		
D. BAKER		
J.L Perry		

DRN. A OUELLETTE	DATE 9-1-64	
CHK'D N PERRYMAN	DATE 9-10-64	
ENG. D WHITE	DATE 9-10-64	
PROD. R. Knowlton	DATE 5-1-12	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: INVERTER R107

SIZE	CODE	NUMBER	REV.
B	CS	R107-0-1	J

PRINTED CIRCUIT REV. C D E

DEC FORM NO.
DRB 102

SIZE B | CODE CS | NUMBER R107-0-1 | REV. J

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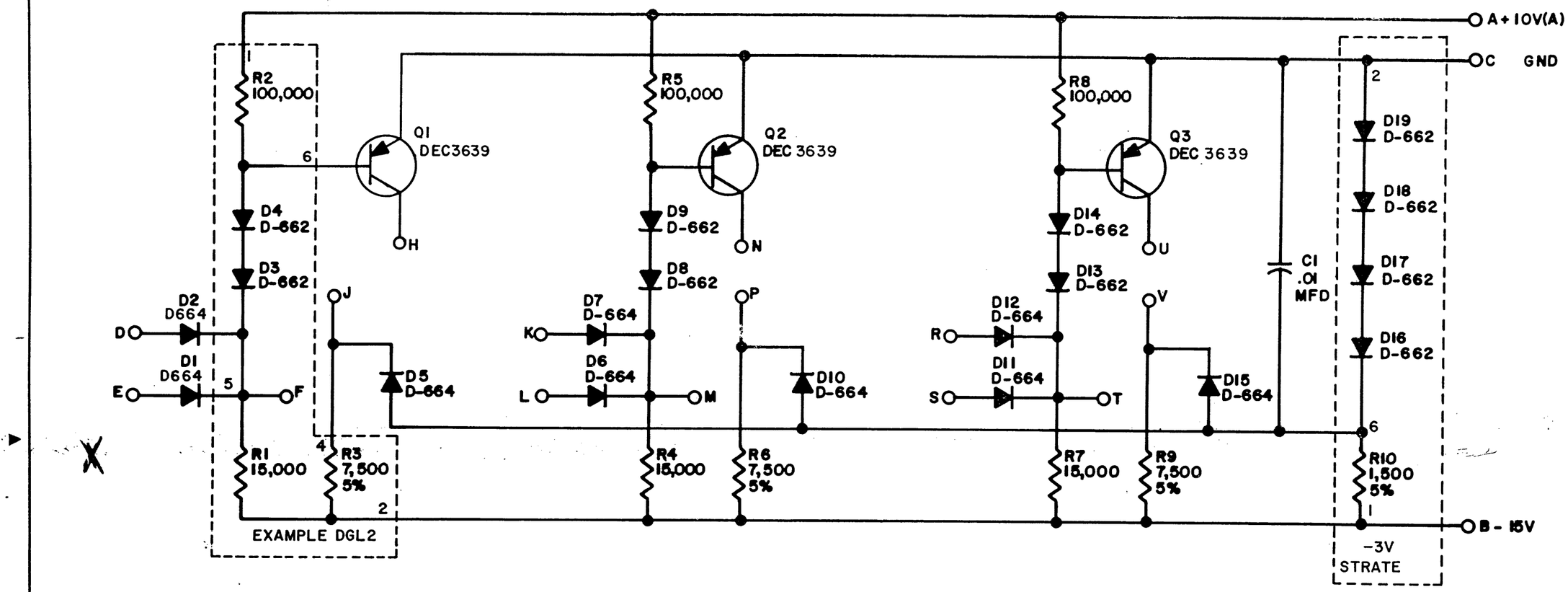

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
PRINTED CIRCUIT REV. FOR
DGL BOARD IS SIB

REVISIONS			
CHK	CHG NO.	REV.	
DAW	4756	I	
REV & REDR.		D	
Pm	5378	E	
Pm	5459	E	
Pm	6634	F	

DRN. H PORTER	DATE 5-15-64
CHK'D N. PERRYMAN	DATE 5-25-64
ENG. R. BANK	DATE 5-25-64
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DIODE GATE RIII

SIZE	CODE	NUMBER	REV.
B	CS	RIII-0-1	F

PRINTED CIRCUIT REV. D E F

DEC FORM NO.
DRB 102

SIZE B | CODE CS | NUMBER RIII-0-1 | REV F

SIZE	CODE	NUMBER	REV.
B	CS	R113-0-1	B

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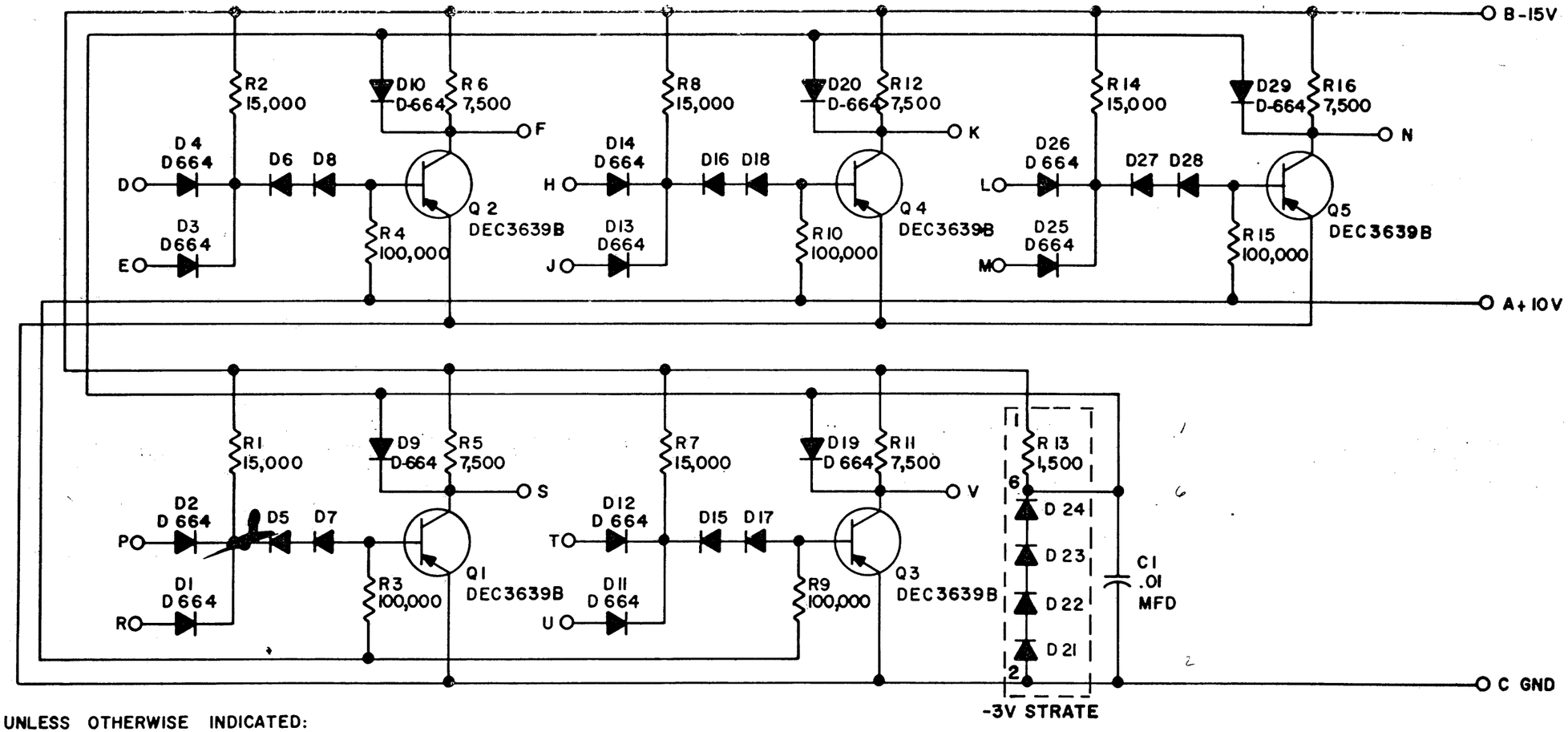

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 5%
DIODES ARE D 662

REVISIONS	CHK	CHG NO.	REV.
	REV. A	REDR. 5646	A
		6540	B

DRN. I. HAHN	DATE 2-18-65	
CHK'D N.PERRYMAN	DATE 2-19-65	
ENG. B. SCUDNEY	DATE 2-19-65	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: DIODE GATE R113

SIZE	CODE	NUMBER	REV.
B	CS	R113-0-1	B

PRINTED CIRCUIT REV. A B

DEC FORM NO.
DRB 102

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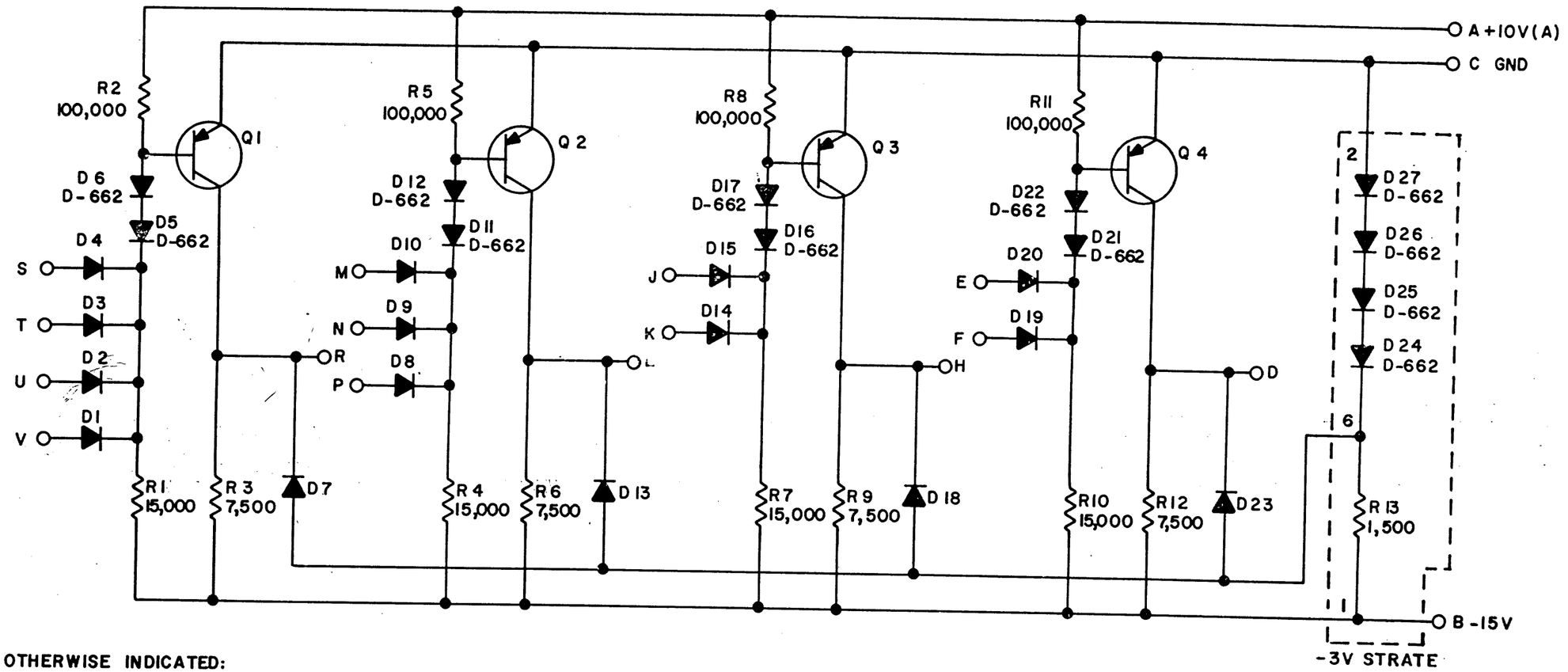

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 3639B
DIODES ARE D-664
RESISTORS ARE 1/4 W, 5%

REVISIONS			
REV.	A		
CHG NO.	6541		
CHK	REV. & REDR.		

DRN. I. HAHN	DATE 3-26-65	
CHK'D N. PERRYMAN	DATE 3-30-65	
ENG. R. DOANE	DATE 3-30-65	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: NAND GATE R121

SIZE	CODE	NUMBER	REV.
B	CS	R121-0-1	A

PRINTED CIRCUIT REV. A B

DEC FORM NO. DRB 102

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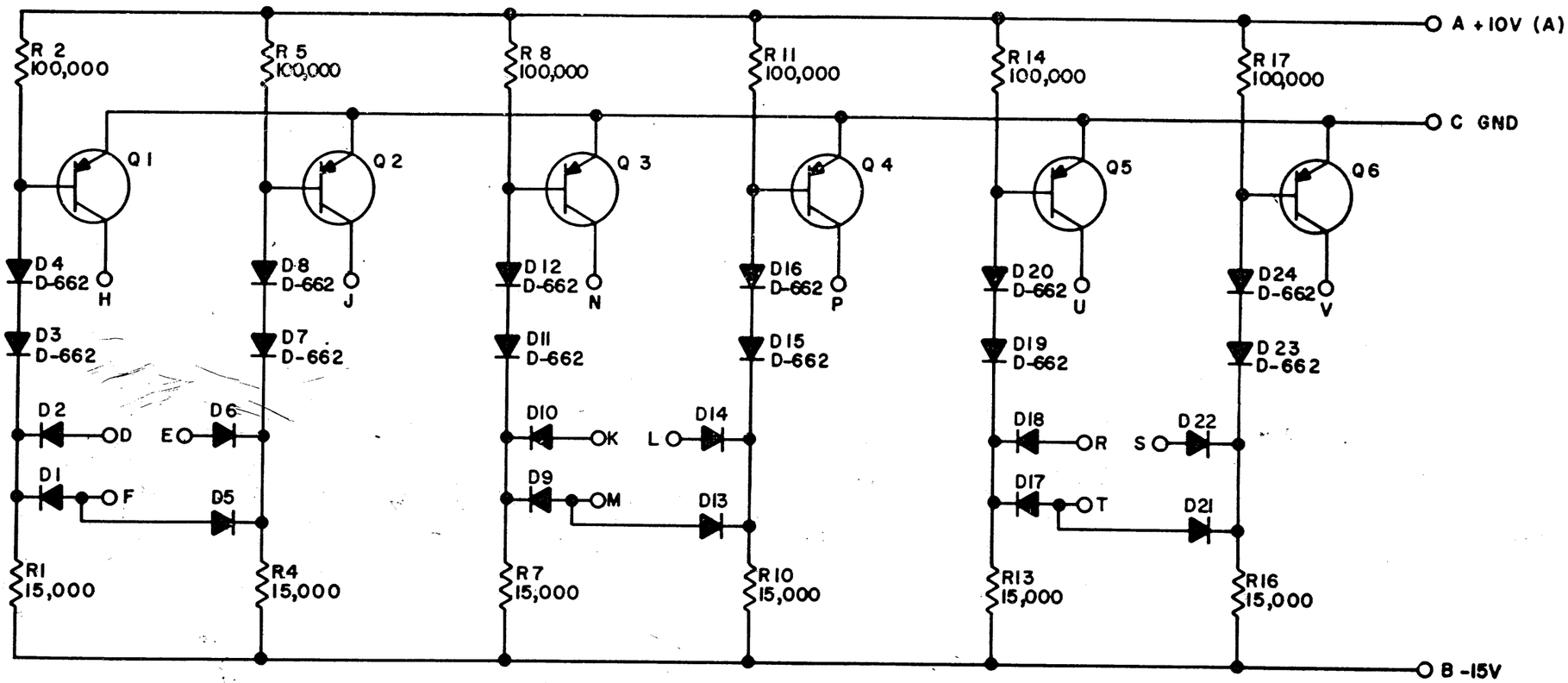

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 3639
RESISTORS ARE 1/4 W, 5%
DIODES ARE D-664

USE THE ETCH BOARD OF W101

REVISIONS			
CHK	CHG NO.	REV.	
DAW	4864	1	
REV. B	REDR. 5644 5676	B	

DRN. I. HAHN	DATE 4-20-65		
CHK'D R. SILVERMAN	DATE 4-21-65		
ENG. E. DECASTRO	DATE 4-21-65		
PROD.	DATE		

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC 3639	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DIODE GATE R123

SIZE	CODE	NUMBER	REV.
B	CS	R123-0-1	B

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	R141-0-1	F

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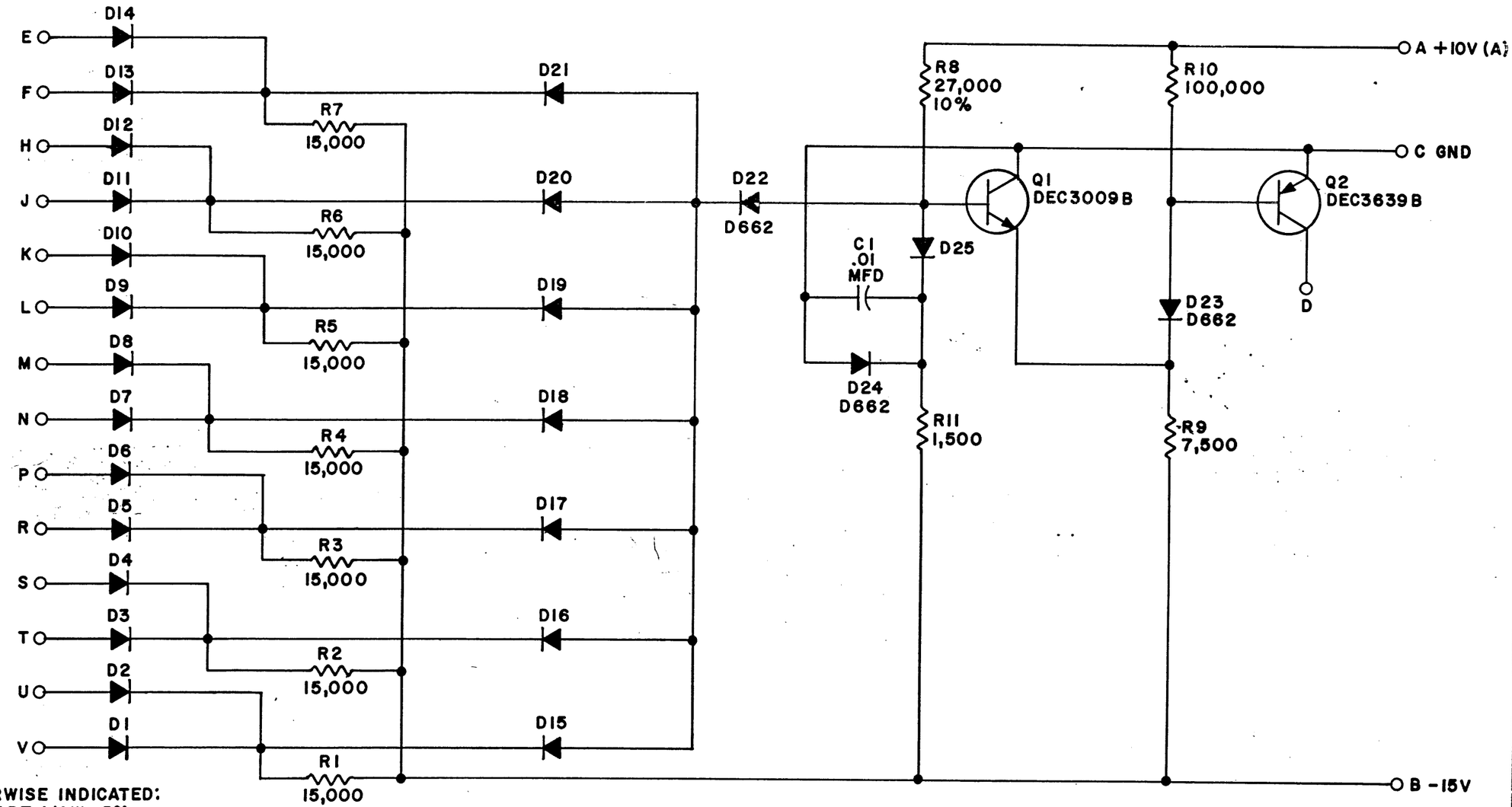

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
DIODES ARE D664

REVISIONS			
CHK	CHG NO.	REV.	
DAW	5276	5	
REV.	REDR.		F
	6544		

DRN. A.OUELLETTE	DATE 7-16-64	
CHK'D N.PERRYMAN	DATE 7-16-64	
ENG. R. BANK	DATE 7-16-64	
PROD. 2	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639		
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE
DIODE GATE R141

SIZE	CODE	NUMBER	REV.
B	CS	R141-0-1	F

PRINTED CIRCUIT REV. E

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	R151-0-1	E

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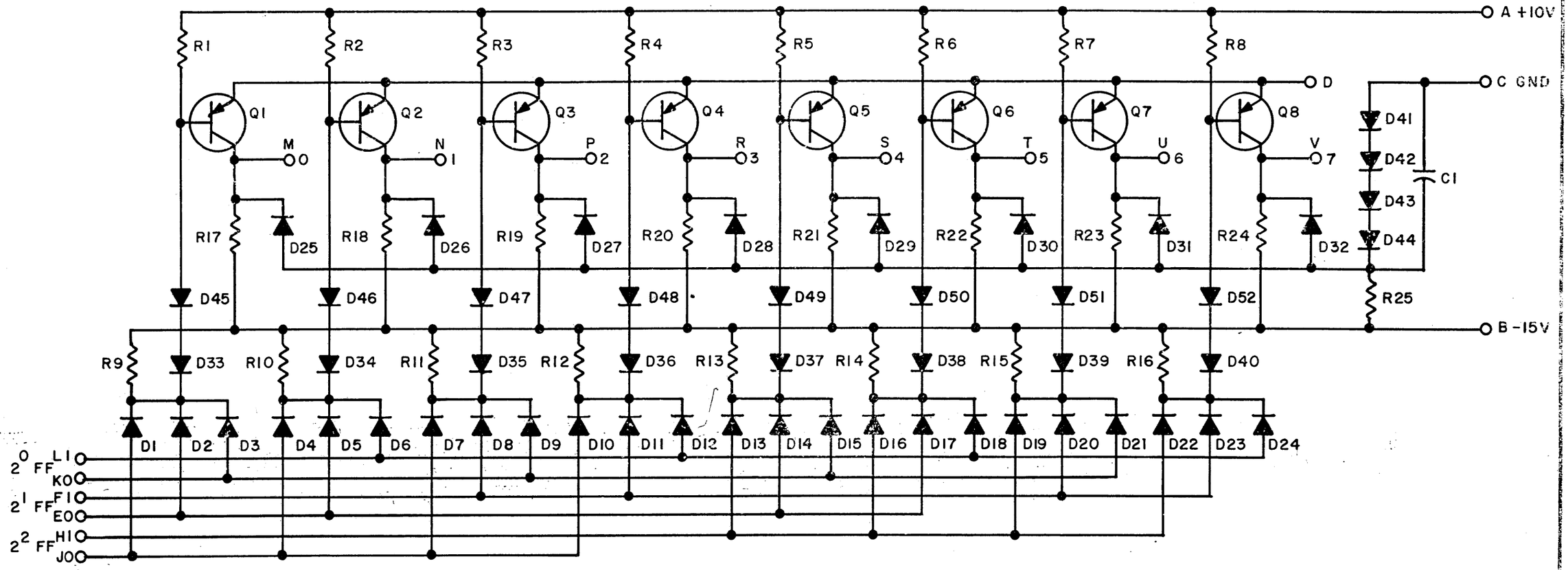

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	
Q1 THRU Q8	TRANSISTOR DEC3639B	1502762
R25	RES. 1.5K 1/4W 5% CC	1300391
R17 THRU R24	RES. 7.5K 1/4W 5% CC	1301422
R9 THRU R16	RES. 15K 1/4W 5% CC	1300496
R1 THRU R8	RES. 100K 1/4W 5% CC	1302466
D33 THRU D52	DIODE D662	1100113
D1 THRU D32	DIODE D664	1100114
C1	CAP. .01 MFD 50V -0 +20% DISC	1000001
	PARTS LIST	A-PL-R151-0-0

PARTS LIST

REVISIONS	CHK	CHG NO.	REV.
	RMS	6545	3
	REV. & REDR.	6856	E

DRN. A.OUELLETTE	DATE	9-1-64
CHK'D N. PERRYMAN	DATE	9-15-64
ENG. D.A.WHITE	DATE	9-15-64
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE BINARY TO OCTAL DECODER R151

SIZE	CODE	NUMBER	REV.
B	CS	R151-0-1	E

PRINTED CIRCUIT REV. D

DIST. | 224 | 434 | 435

DEC FORM NO. DRB 102

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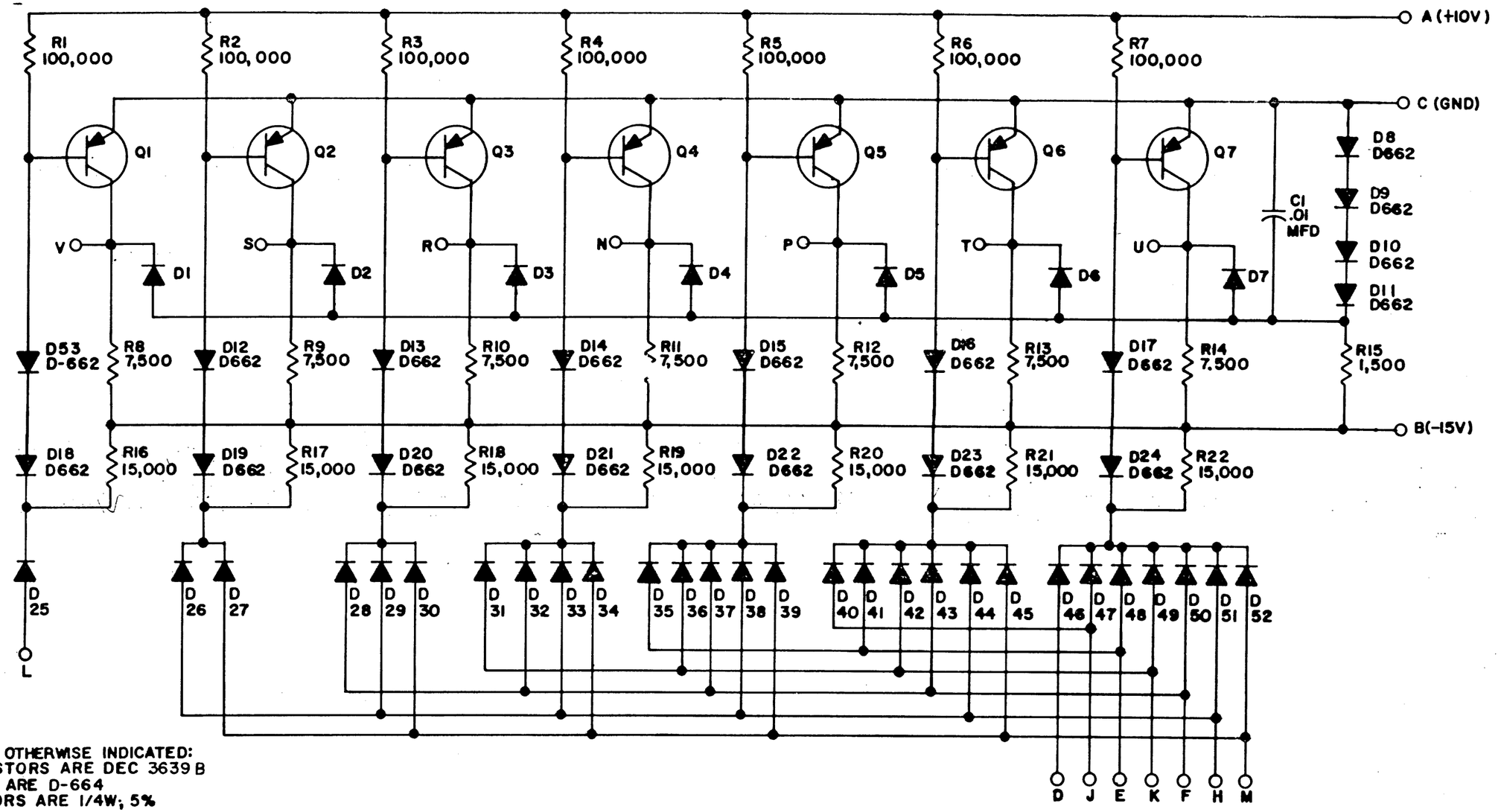

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 3639 B
DIODES ARE D-664
RESISTORS ARE 1/4W; 5%

REVISIONS			
CHK	CHG NO.	REV.	
DAW	4869	I	
REV. & REDR. M.S.	5643	C	
D.A.O.	6546	D	

DRN.	A.OUELLETTE	DATE	9-1-64
CHK'D	N.PERRYMAN	DATE	10-8-64
ENG.	D.A.WHITE	DATE	10-8-64
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639	2N3639B		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DC CARRY CHAIN R181

SIZE	CODE	NUMBER	REV.
B	CS	R181-0-1	D

PRINTED CIRCUIT REV. B C

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	R201-0-1	D

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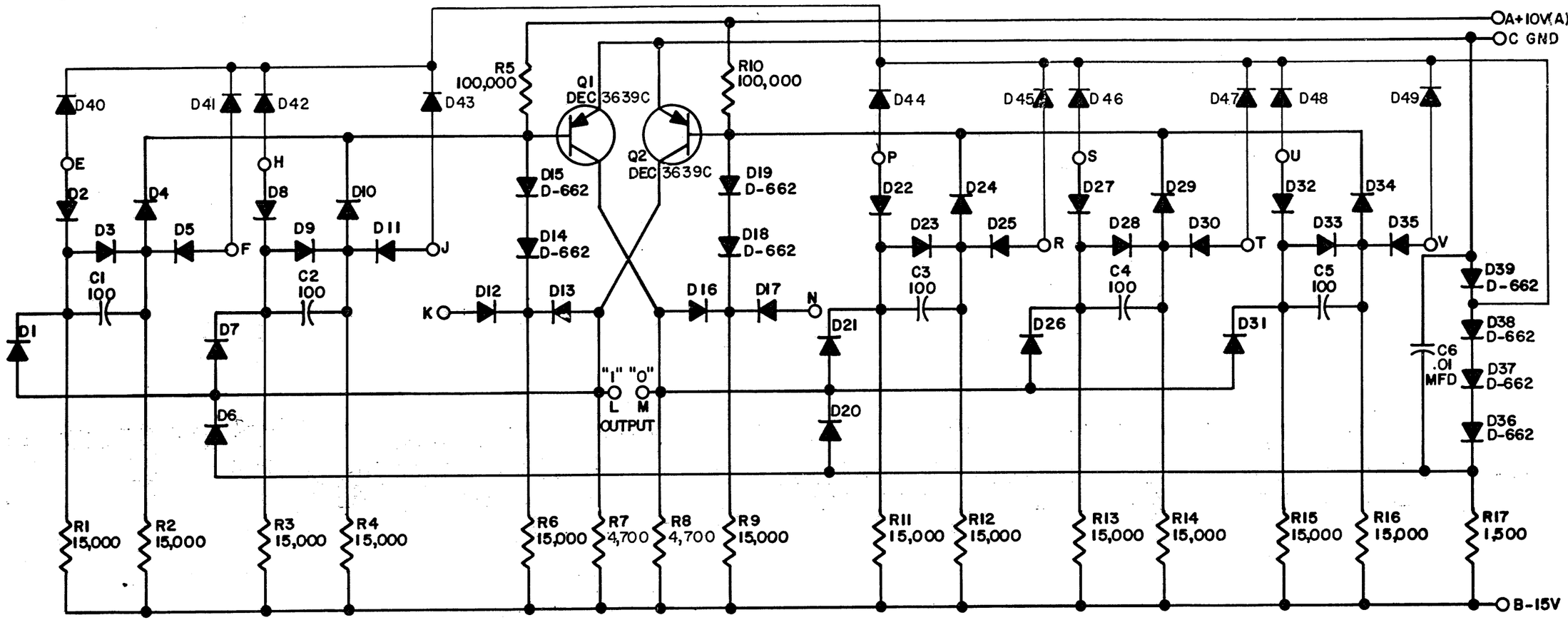

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
CAPACITORS ARE MMFD
DIODES ARE D-664

REVISIONS			
CHK	CHG NO.	REV.	
RMS	6329	3	
REV. & REDR.	6548	D	

DRN. H.W.PORTER	DATE 5-19-64	
CHK'D N.PERRYMAN	DATE 5-25-64	
ENG. R.BANK	DATE 5-25-64	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639C	2N3639		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
FLIP-FLOP R201

SIZE	CODE	NUMBER	REV.
B	CS	R201-0-1	D

PRINTED CIRCUIT REV. C D

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV
B	CS	R202-0-1	F

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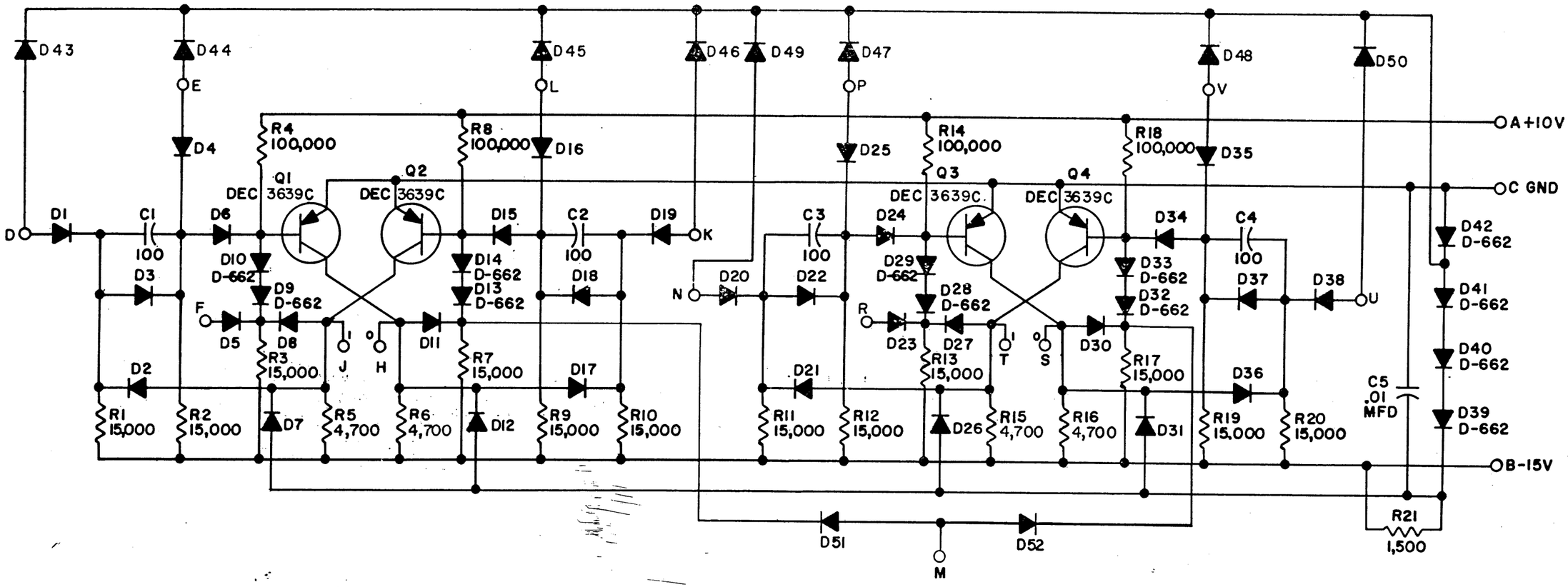


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
CAPACITORS ARE MMFD
DIODES ARE D-664

REVISIONS			
REV.	4		
CHG NO.	6330		
REDR.	6549		F

DRN.	A.OUELLETTE	DATE	6-16-64
CHK'D	N.PERRYMAN	DATE	6-16-64
ENG.	R.BANK	DATE	6-22-64
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	FIA
DEC3639C	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

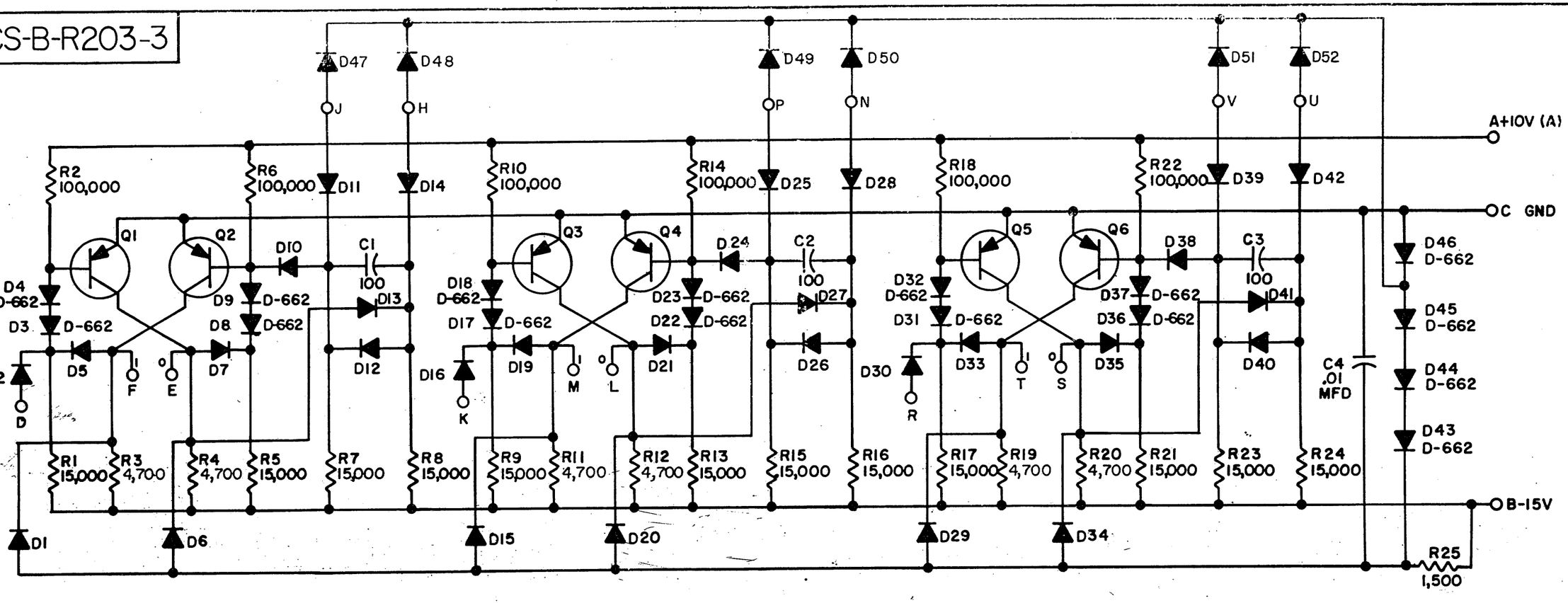
TITLE: DUAL FLIP FLOP R202

SIZE	CODE	NUMBER	REV.
B	CS	R202-0-1	F

PRINTED CIRCUIT REV. D E

DEC FORM NO.
DRB 102

CS-B-R203-3

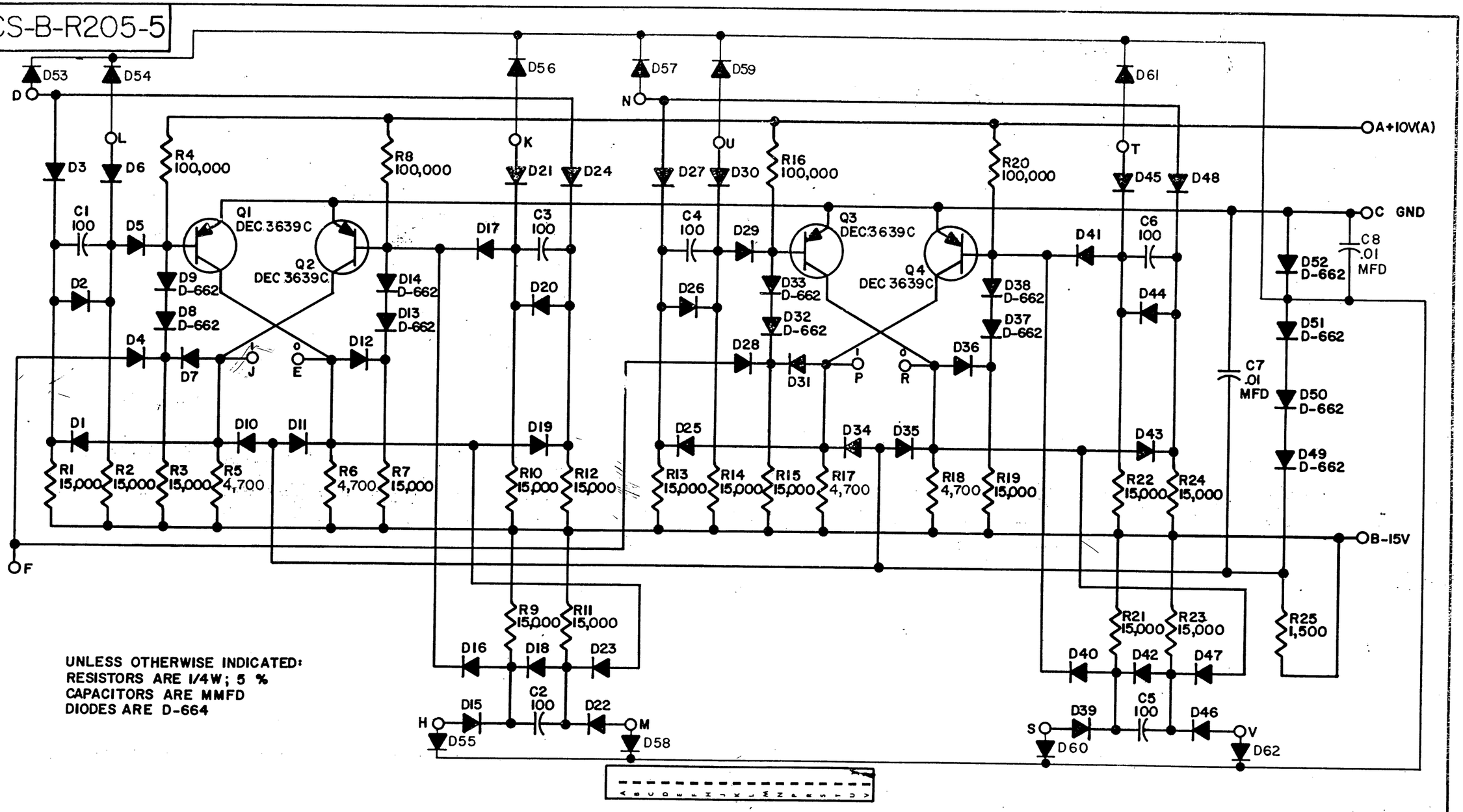


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
CAPACITORS ARE MMFD
DIODES ARE D-664
TRANSISTORS ARE DEC 3639C

REVISIONS	ECO. NO.	ENG.
	6331-3	
	4882-2	
	4846/	
	4507-1	

DRAFTSMAN A. OUELLETTE DATE 6-30-64	CHECKER DATE 7-6-64	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CODE CS	DWG. NO. B-R203	REV. 3
ENGINEER DATE	PRODUCTION DATE	TITLE TRIPLE FLIP-FLOP R203			

CS-B-R205-5



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5 %
CAPACITORS ARE MMFD
DIODES ARE D-664

REVISIONS	ECO.NO.	ENG.
	6551-5	
	6332-4	
	4913-3	
	4850-2	
	4843 /	
	4514-1	

DRAFTSMAN H.W. PORTER	CHECKER	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CODE CS / DWG. NO. B-R205 / REV. 5
DATE 9-9-64	DATE 9-15-64		
ENGINEER	PRODUCTION	TITLE DUAL FLIP-FLOP R205	
DATE	DATE		

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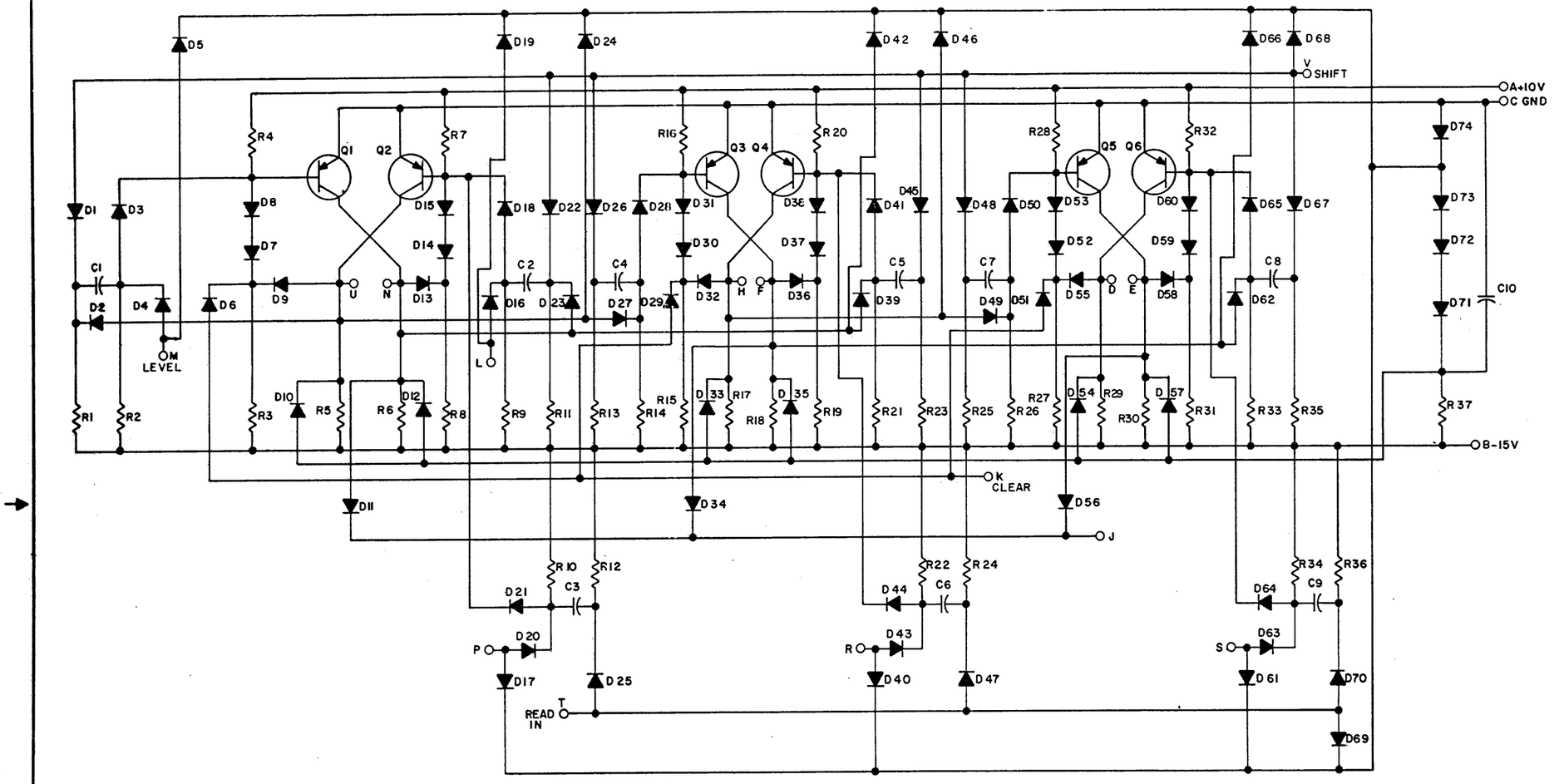

Q1-Q6	TRANSISTOR DEC3639C	1502762-01
R37	RES. 1.5K 1/4W 5% CC	1300391
R5,R6,R17,R18,R29,R30	RES. 3K 1/4W 5% CC	1300432
R4,R7,R16,R20,R28,R32	RES. 100K 1/4W 5% CC	1302466
R1-R3,R8-R15,R19,R21-R27,R31,R33-R36	RES. 15K 1/4W 5% CC	1300496
D52,D53,D59,D60,D71-D74 D7,D8,D14,D15,D30,D31,D37,D38,	DIODE D662	1100113
D39-D51,D54-D58,D61-D70 D1-D6,D9-D13,D16-D29,D32-D36,	DIODE D664	1100114
C10	CAP. .01MFD 100V 20% DISC	1001610
C1-C9	CAP. 82 MMF 100V 5% D.M.	1000015
	PARTS LIST	A-PL-R220-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO

PARTS LIST

REVISIONS			
CHK	CHG NO.	REV.	
DAW	4656	4	
REV.	4883	F	
	00001	H	
	00003	N	

DRN. I. HAHN	DATE	6-17-66
CHK'D R. SILVERMAN	DATE	6-18-65
ENG. E. DE CASTRO	DATE	6-18-65
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639C	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 8 BIT SHIFT REGISTER R220

SIZE C | CODE CS | NUMBER R220-0-1 | REV. N

PRINTED CIRCUIT REV. L

SIZE C | CODE CS | NUMBER R220-0-1 | REV. N

PINK

DIST.

183

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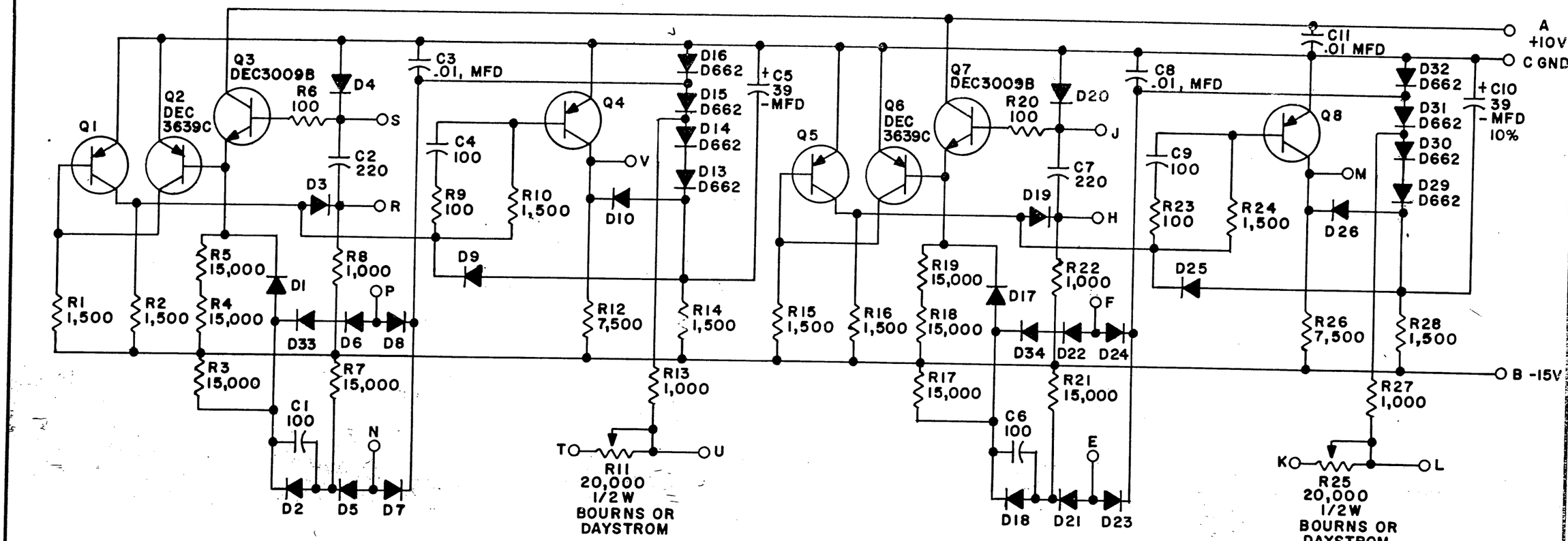

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
CAPACITORS ARE MMFD
DIODES ARE D664
TRANSISTORS ARE DEC3639

PARTS LIST A-PL-R302-0-0

REVISIONS	CHK	CHG NO.	REV.
DAW	4856	7	
REV & REDR	5538	L	
	5975	M	
	6499	P	
	6696	R	
	6749	S	
	00001	T	
	00002	U	

DRN.	A. OUELLETTE	DATE 6-12-64
CHK'D	N. PERRYMAN	DATE 6-17-64
ENG.	R. BANK	DATE 6-17-64
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639	2N3639		
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		
DEC3639C	2N3639		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: DELAY R302

SIZE B | CODE CS | NUMBER R302-0-1 | REV. U

PRINTED CIRCUIT REV. L M

DEC FORM NO. DRB 102

5 PINK DIST 324 434 435 359

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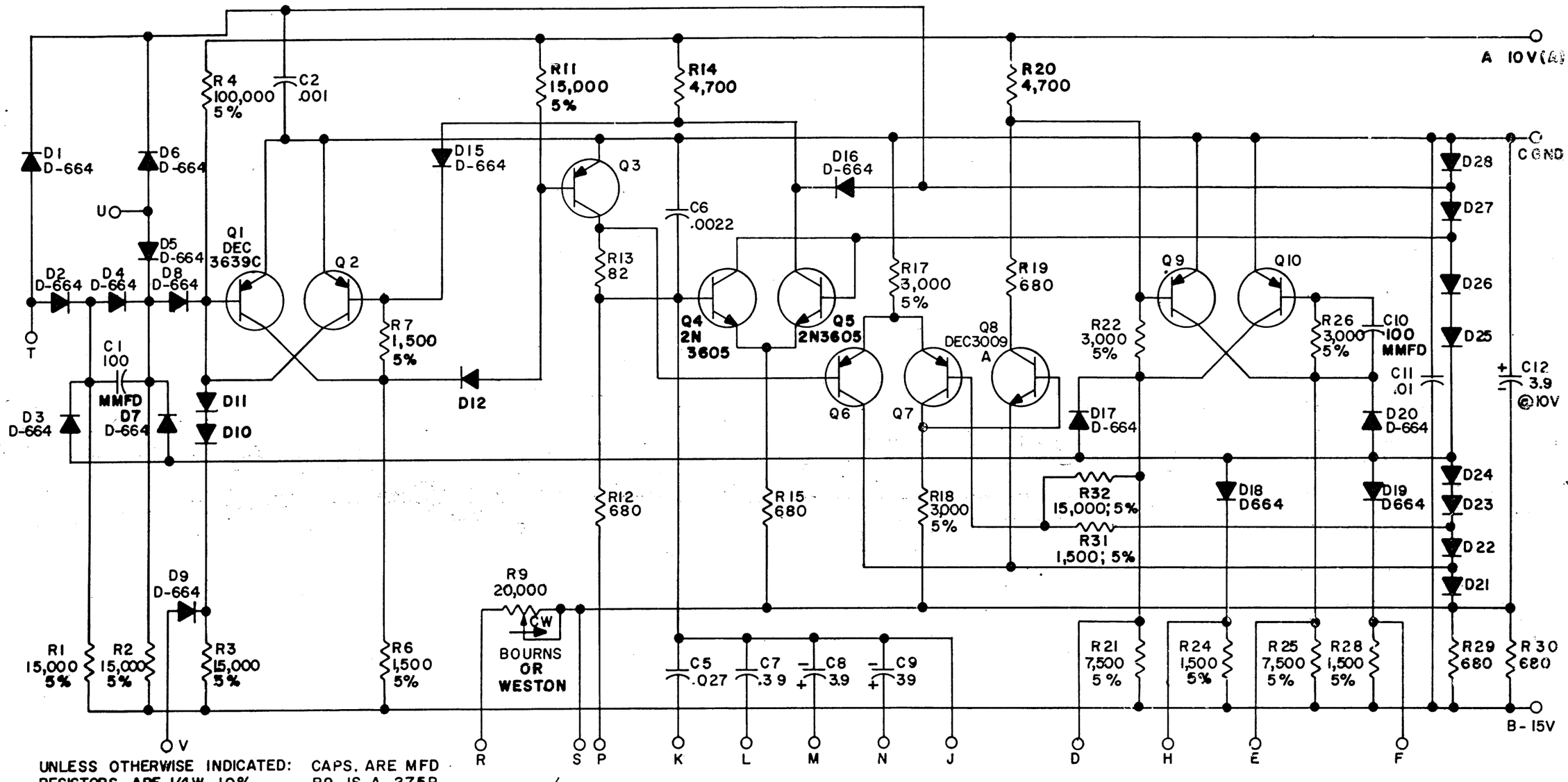

UNLESS OTHERWISE INDICATED: CAPS. ARE MFD
RESISTORS ARE 1/4W, 10% R9 IS A 275P
DIODES ARE D-662,
TRANSISTORS ARE DEC 3639B PARTS LIST A-PL-R303-0-0

REVISIONS	CHK	CHG NO.	REV.
	DAW	5021	2
	REV. @ REDR.	5528	0
	Rel	6096	D
	Rel	6173	E
	Rel	6500	F
	Rel	6669	H
	Rel	6767	J
	Rel	6897	K

DRN.	I. HAHN	DATE 4-5-65
CHK'D	R. SILVERMAN	DATE 4-16-65
ENG.	R. DOANE	DATE 4-16-65
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639	DEC3639C	2N3639
DEC3009	2N3009		
2N3605	2N3605		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: INTEGRATING ONE-SHOT R303

SIZE	CODE	NUMBER	REV.
B	CS	R303-0-1	K

PRINTED CIRCUIT REV. D

DEC FORM NO. DRB 102

PINK DIST. 324 434 435

SIZE	CODE	NUMBER	REV.
B	CS	R401-0-1	M

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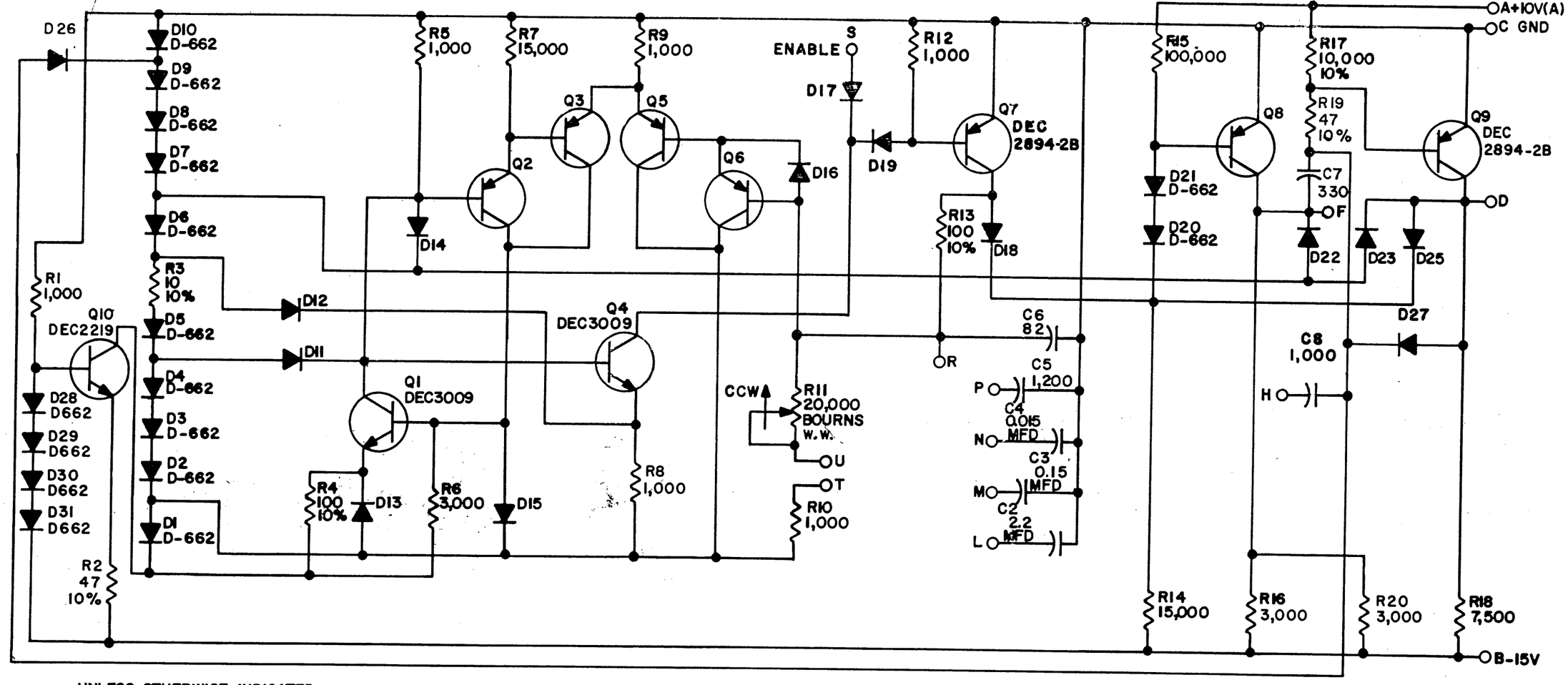

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
CAPACITORS ARE MMFD
DIODES ARE D-664
TRANSISTORS ARE DEC 3639-0
R11 IS A #275P

REVISIONS	REV.				
CHK	B	K	L	M	
DAW	5355	REV & REDR 3905	6004		

		DATE
DRN.	H.W. PORTER	10-23-64
CHK'D	N. PERRYMAN	10-23-64
ENG.	D. O'CONNOR	10-23-64
PROD.	2	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639-0	2N3639	DEC2219	2N2219
DEC3009	2N3009		
DEC2894-2B	NONE		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CLOCK R401

SIZE	CODE	NUMBER	REV.
B	CS	R401-0-1	M

PRINTED CIRCUIT REV. H

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	R405-0-1	J

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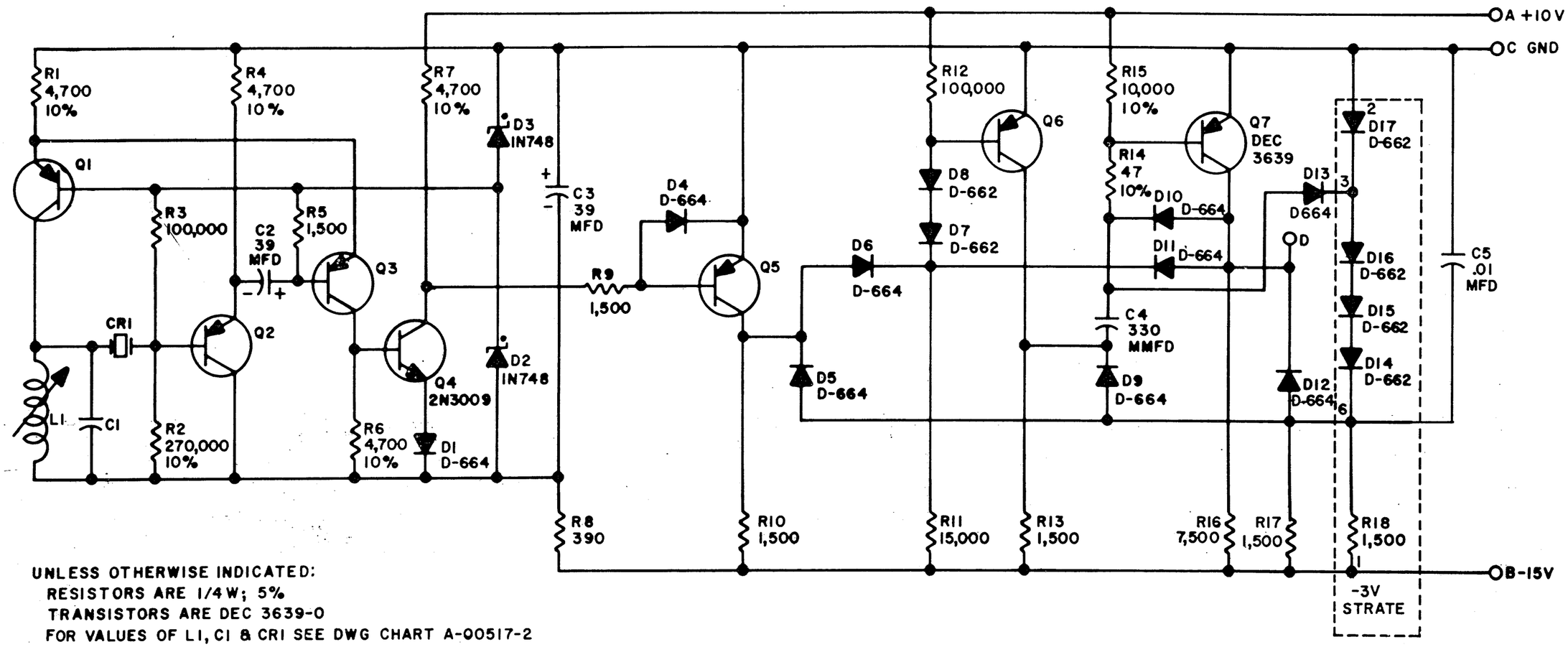

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
TRANSISTORS ARE DEC 3639-0
FOR VALUES OF L1, C1 & CR1 SEE DWG CHART A-00517-2

REVISIONS			
REV.	3	H	J
CHG NO.	5089	5394	6555
CHK	DAW	REV. & REDR.	

DRN.	H. PORTER	DATE	11-21-64
CHK'D	N. PERRYMAN	DATE	12-4-64
ENG.	D. O'CONNOR	DATE	12-4-64
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639	2N3639	IN748 3.9V	SAME
DEC3639-0	2N3639		
2N3009	SAME		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CRYSTAL CLOCK R405

SIZE	CODE	NUMBER	REV.
B	CS	R405-0-1	J

PRINTED CIRCUIT REV. H J

DEC FORM NO.
DRB 102

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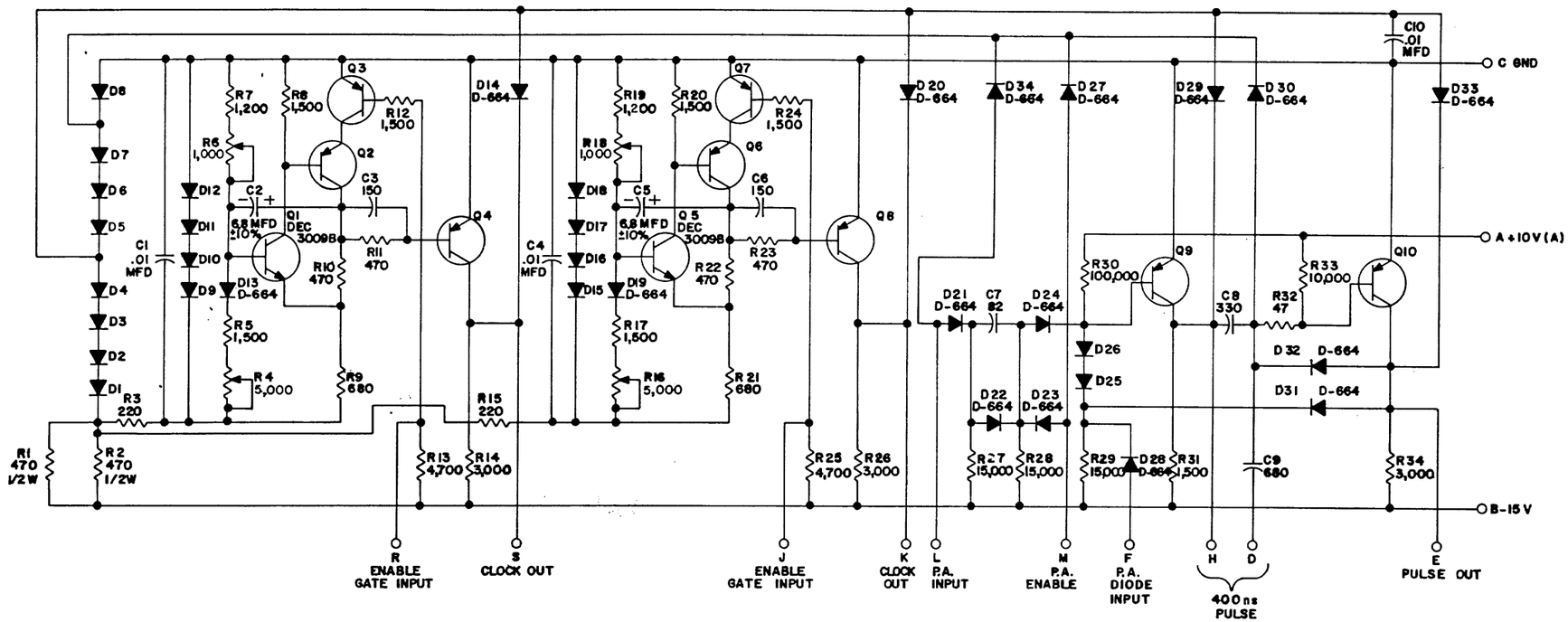

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 3639
CAPACITORS ARE MMFD.
RESISTORS ARE 1/4W, 5%
DIODES ARE D-662
R4 & R16 ARE DEC 13-09150-04
R6 & R18 ARE DEC 13-09150-03

PARTS LIST A-PL-R450-0-0

REVISIONS			
CHK	CHG NO.	REV.	
DAW	5298	G	
REV & REDR	5830	D	
	6186	E	
	6455	F	
	00001	H	

DRN.	I. HANN	DATE	8-19-65
CHK'D	R. SILVERMAN	DATE	8-13-65
ENG.	R. SOGGE	DATE	9-13-65
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639	2N3639		
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: VARIABLE CLOCK R450

SIZE	CODE	NUMBER	REV.
C	CS	R450-0-1	H

PRINTED CIRCUIT REV. D E

DIST 324 434 435

PINK

SIZE C | CODE CS | NUMBER R450-0-1 | REV. H

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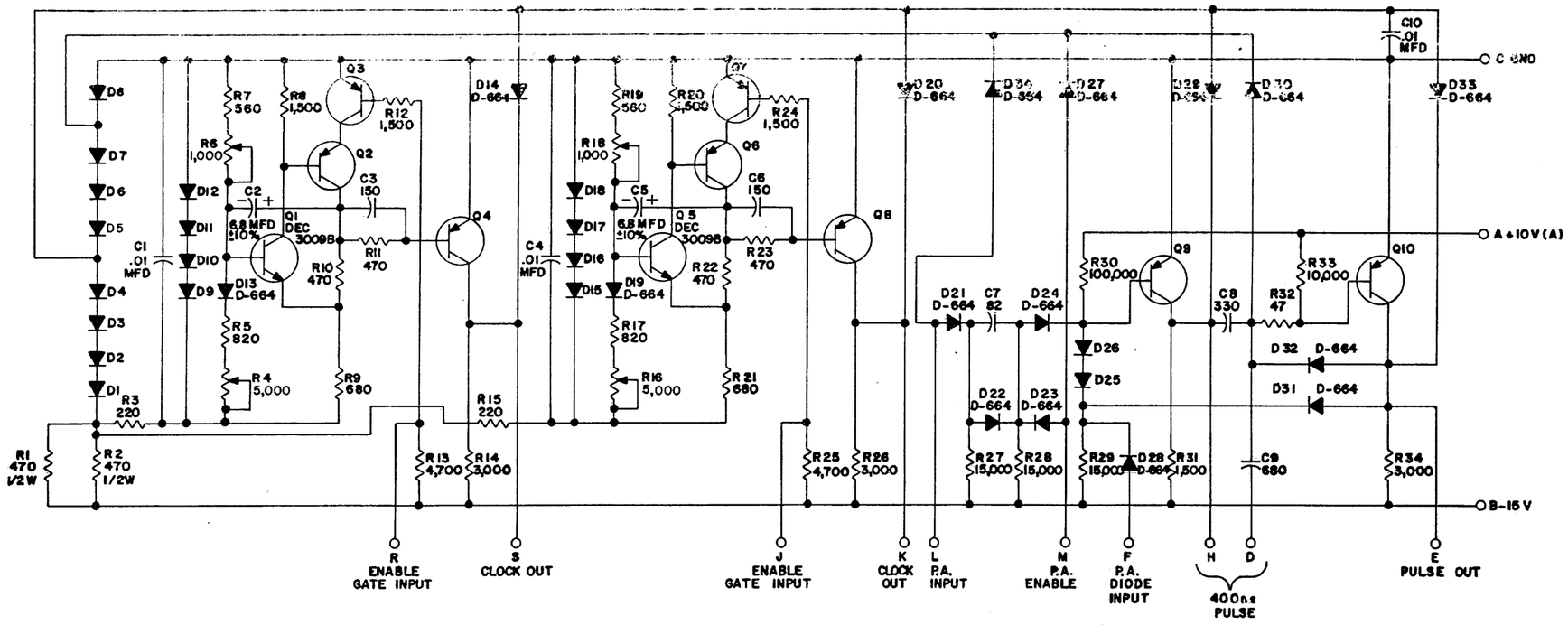

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 3639
CAPACITORS ARE MMFD
RESISTORS ARE 1/4W, 5%
DIODES ARE D-662
R4&R16 ARE DEC1309150-04
R6 & R18 ARE DEC 1309150-03

PARTS LIST IS A-PL-R451-0-0

USE THE ETCH BOARD OF THE R450

REVISIONS			
CHK	CHG NO.	REV.	
	6186	A	
	6454	B	
	00011	C	

DRN. M. Haller	DATE	12-14-66
CHK'D	DATE	12/15/66
ENG.	DATE	12/16/66
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639	2N3639		
DEC30098	2N3009		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: VARIABLE CLOCK R451

SIZE	CODE	NUMBER	REV.
C	CS	R451-0-1	C

PRINTED CIRCUIT REV. E

DIST 224,1124,435,359 PINK

SIZE	CODE	NUMBER	REV.
C	CS	R451-0-1	C

SIZE	CODE	NUMBER	REV.
B	CS	R601-0-1	P

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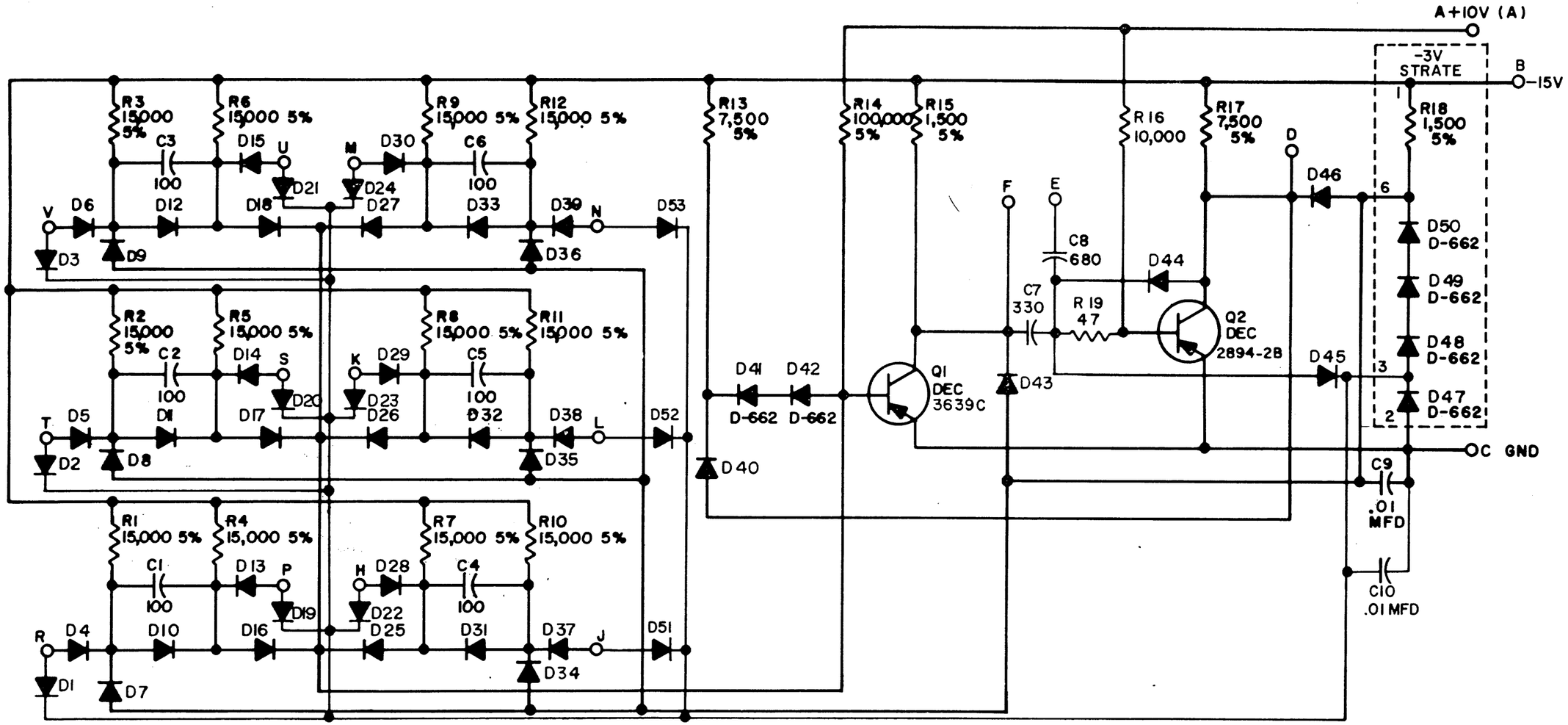

UNLESS OTHERWIS INDICATED:
RESISTORS ARE 1/4W; 10%
CAPACITORS ARE MMFD
DIODES ARE D-664

REVISIONS	CHK	CHG NO.	REV.
	DAW	5288	8
		REV. & REDR. 5395	L
		6333	M
		6429	N
		6556	P

DRN. A.OUELLETTE	DATE 8-19-64	
CHK'D N. PERRYMAN	DATE 9-4-64	
ENG. B. SCUDNEY	DATE 9-4-64	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC2894-28	NONE		
DEC3639C	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PULSE AMPLIFIER R601

SIZE	CODE	NUMBER	REV.
B	CS	R601-0-1	P

PRINTED CIRCUIT REV. F H

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	R602-0-1	R

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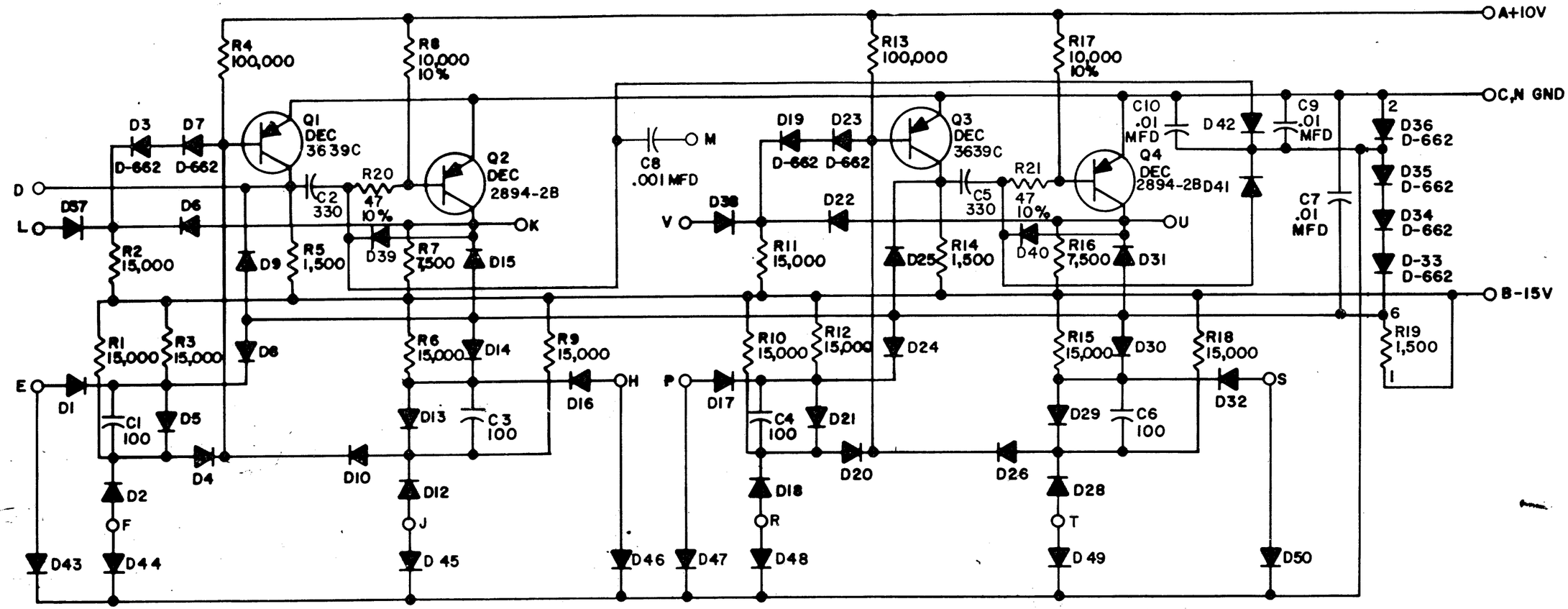


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
CAPACITORS ARE MMFD
DIODES ARE D-664

REVISIONS	CHK	CHG NO.	REV.
	DAW	5274	9
	REV. & REDR.	5382	L
	Engl	6334	M
	Mfg	6557	N
			P
			R

DRN. A OUELLETTE	DATE 6-10-64
CHK'D N PERRYMAN	DATE 6-12-64
ENG. R BANK	DATE 6-12-64
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC2894-2B	NONE		
DEC3639C	2N3639		
D662	1N645		
D664	1N3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

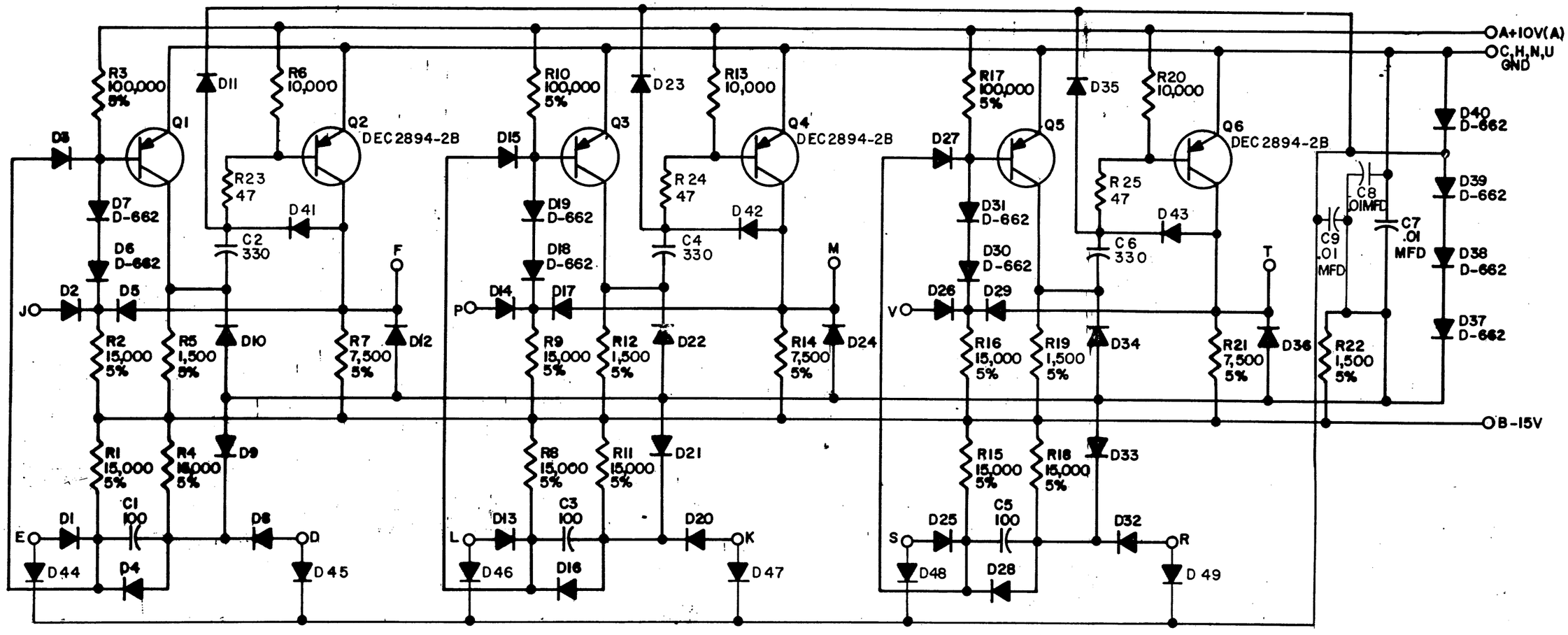
TITLE
PULSE AMPLIFIER R602

SIZE	CODE	NUMBER	REV.
B	CS	R602-0-1	R

PRINTED CIRCUIT REV. H K

DEC FORM NO.
DRB 102

CS-B-R603-6



UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
CAPACITORS ARE MMFD
DIODES ARE D-664
TRANSISTORS ARE DEC 3639-C

REVISIONS	ECO. NO.	ENG.
	6335-6	
	5272-5	Drw 4/6
	5117-4	Drw 3/6
	4861 / 4875-3	new blk
	4490-2	Drw 3/6
	4485-1	Drw 3/6

DRAFTSMAN H.W. PORTER DATE 10-5-64	CHECKER DATE 10/8/64	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CODE CS	DWG. NO. B-R603	REV. 6
ENGINEER DATE 10/5/64	PRODUCTION DATE	TITLE PULSE AMPLIFIER R603			

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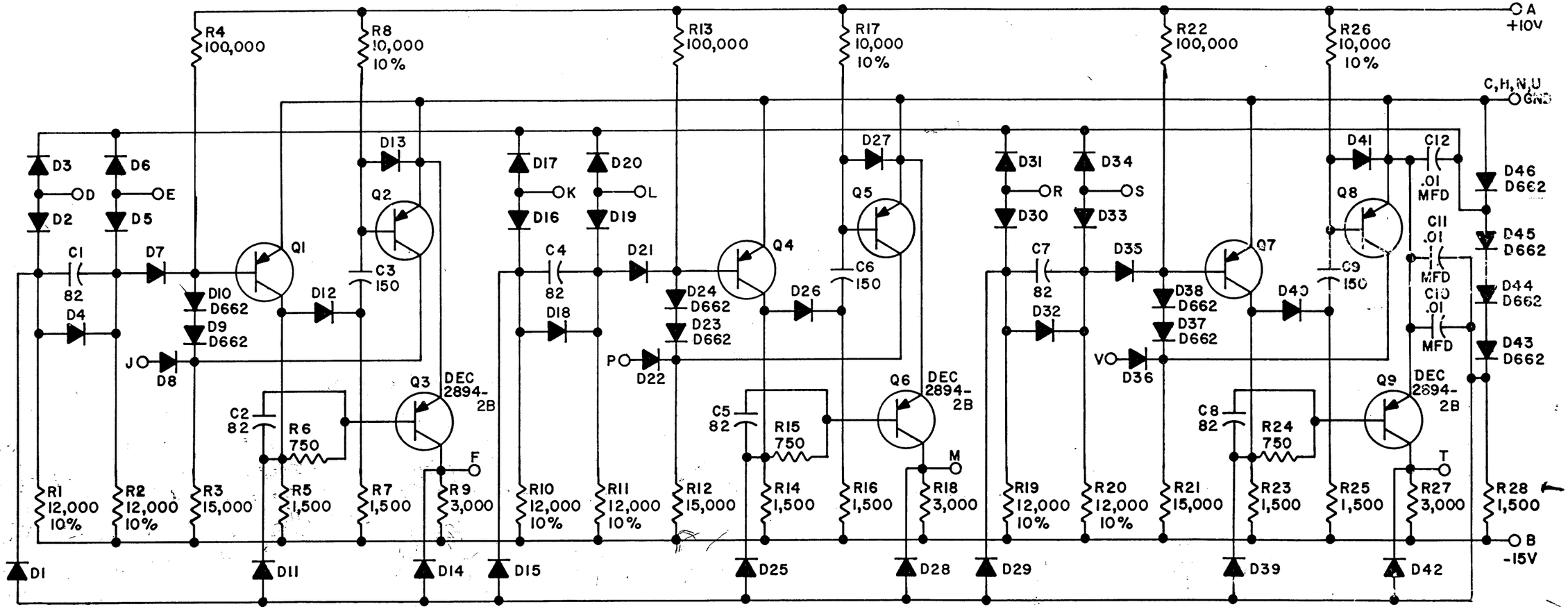

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE MMFD
DIODES ARE D664
TRANSISTORS ARE DEC 3639B

REVISIONS			
REV.	A	B	C
CHG NO.	5681	6358	00001
CHK	Rob	Rob	Rob

DRN	M Bergman	DATE 4/29/66
CHK'D	R Silverman	DATE 5/3/66
ENG	D Boyle	DATE 5/3/66
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC 3639B	2N3639		
DEC 2894-2B	NONE		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: PULSE AMPLIFIER R613

SIZE	CODE	NUMBER	REV.
B	CS	R613-0-1	C

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

5

DIST. 324,43,44,43,3

PINK

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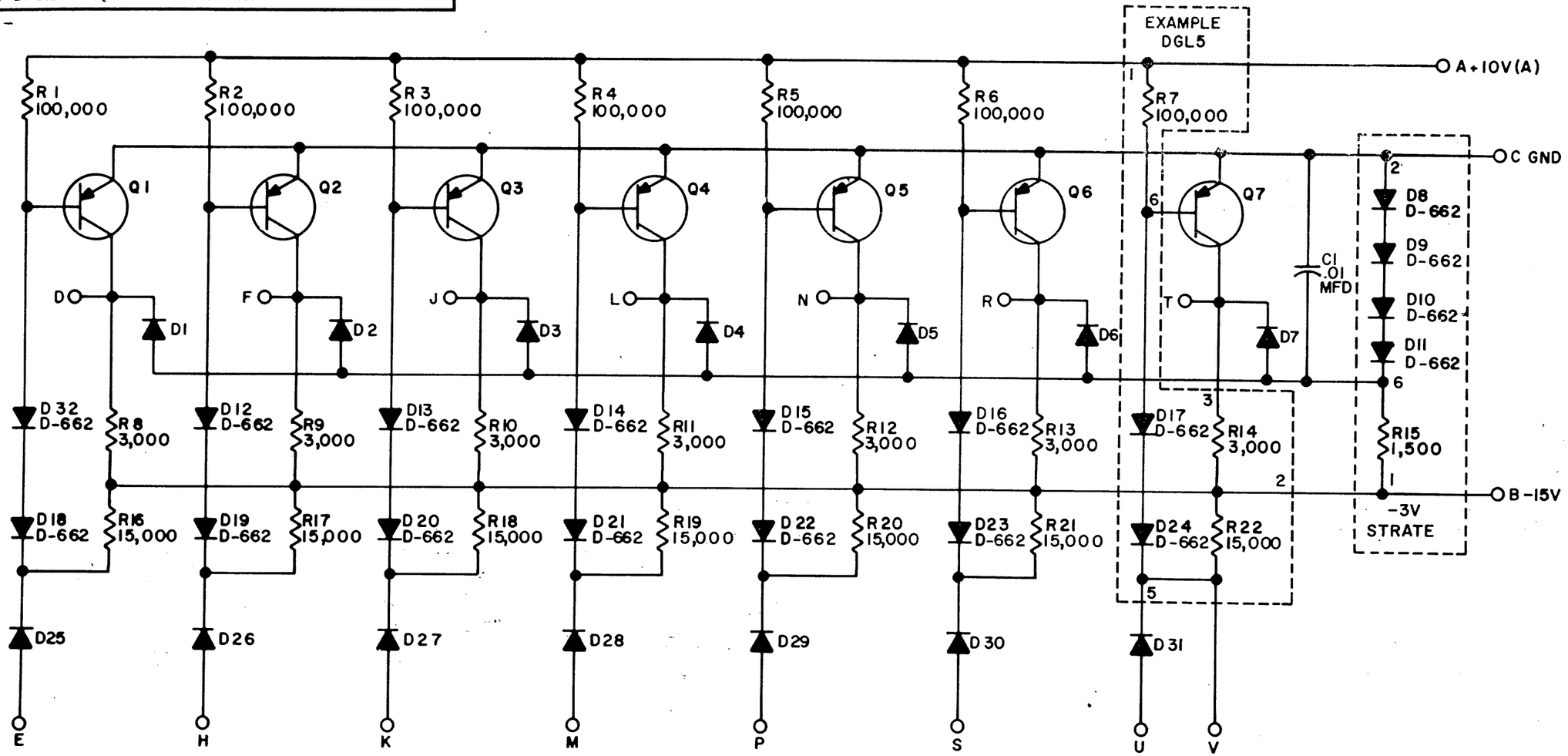

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W;5%
DIODES ARE D-664
TRANSISTORS ARE DEC 3639B
PRINTED CIRCUIT REV. FOR
DGL BOARD IS SIA

PARTS LIST A-PL-S107-0-0

USE THE ETCH BOARD OF THE R107

REVISIONS	CHK	CHG NO.	REV.
REV. B REDR.	Rmd	5384	B
	Rmd	5458	C
	Rmd	6857	D
	R.W.D	00001	E

NANCY HOOLE — D. BAKER

		DATE
DRN.	I HAHN	6-11-65
CHK'D	R SILVERMAN	6-18-65
ENG.	R SOGGE	6-18-65
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC 3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: INVERTER S107

SIZE	CODE	NUMBER	REV.
B	CS	S107-0-1	E

PRINTED CIRCUIT REV. E

DIST. 324 434 433

DEC FORM NO. DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	SIII-0-1	D

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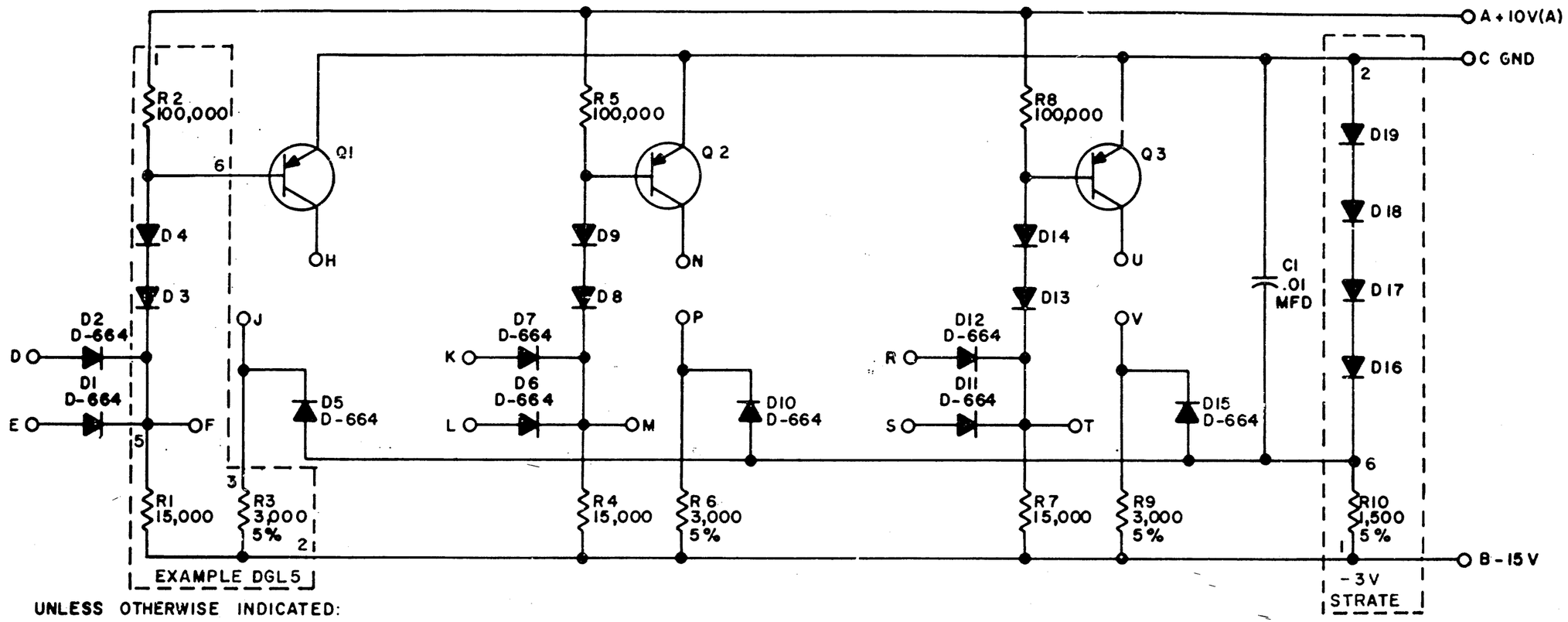

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 3639
RESISTORS ARE 1/4W;10%
DIODES ARE D-662
PRINTED CIRCUIT REV. FOR DGL BOARD IS SIA

USE THE ETCH BOARD OF THE RIII

REVISIONS			
REV.	B	C	D
CHG. REQ. NO.		6460	6750
ECO NO.	8355		
REV. BY			

DRN. I HAHN	DATE 6-10-65	
CHK'D R SILVERMAN	DATE 6-18-65	
ENG R SOGGE	DATE 6-18-65	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639	2N3639		
D662	IN645		
D664	IN3606		

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DIODE GATE SIII

SIZE	CODE	NUMBER	REV
B	CS	SIII-0-1	D

PRINTED CIRCUIT REV D F

DEC FORM NO. DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	S151-0-1	C

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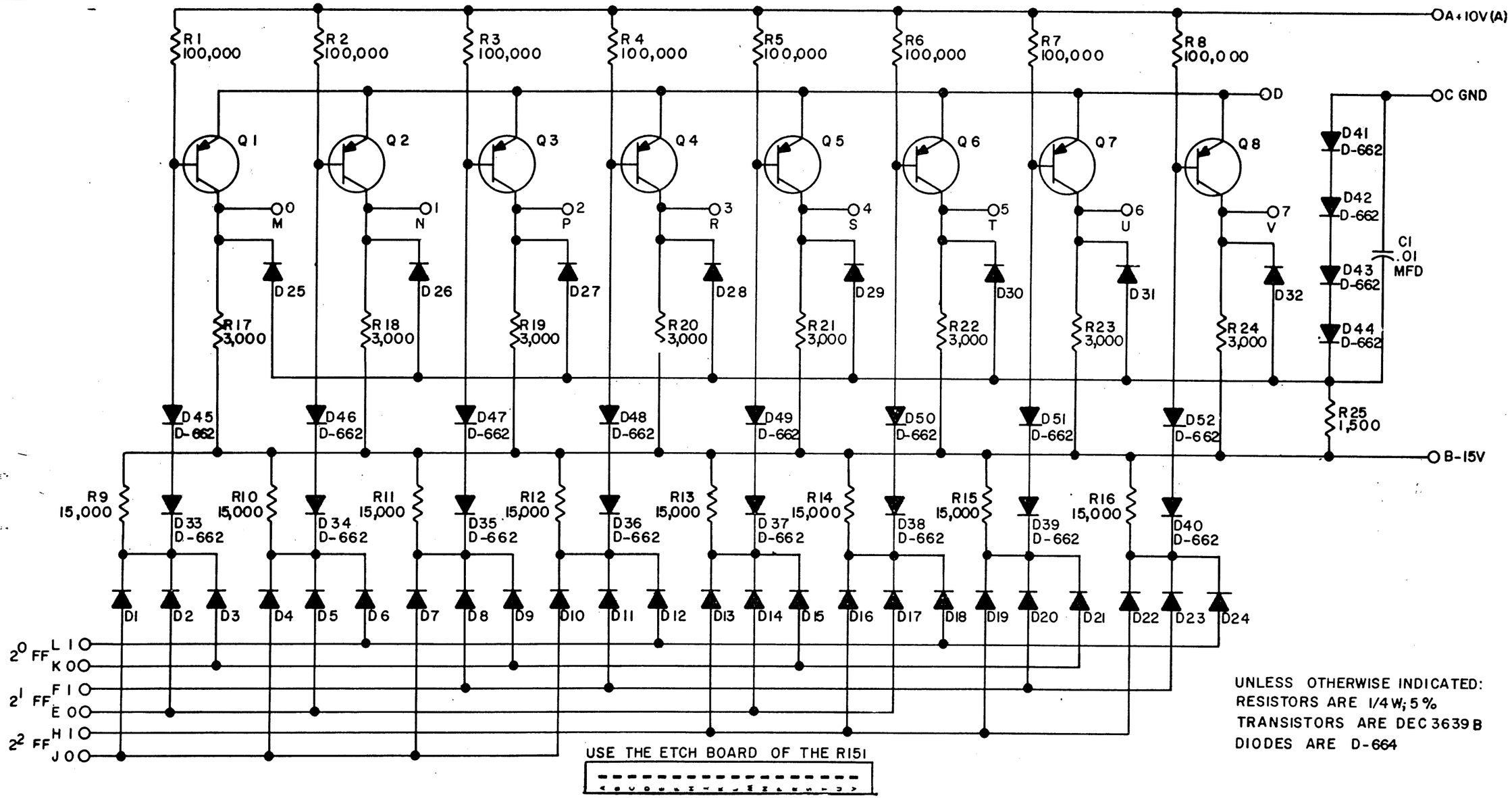

USE THE ETCH BOARD OF THE R151

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W; 5 %
TRANSISTORS ARE DEC 3639 B
DIODES ARE D-664

REVISIONS	CHK	CHG NO.	REV.
	REV.	6608	B
		6854	C

DRN. I. HAHN	DATE	6-11-65
CHK'D R. SILVERMAN	DATE	6-18-65
ENG. R. SOGGE	DATE	6-18-65
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE BINARY TO OCTAL DECODER S151

SIZE	CODE	NUMBER	REV.
B	CS	S151-0-1	C

PRINTED CIRCUIT REV. B C D

DIST. 324 434 435 2

DEC FORM NO. DRB 102

PINK

SIZE	CODE	NUMBER	REV.
B	CS	S181-0-1	A

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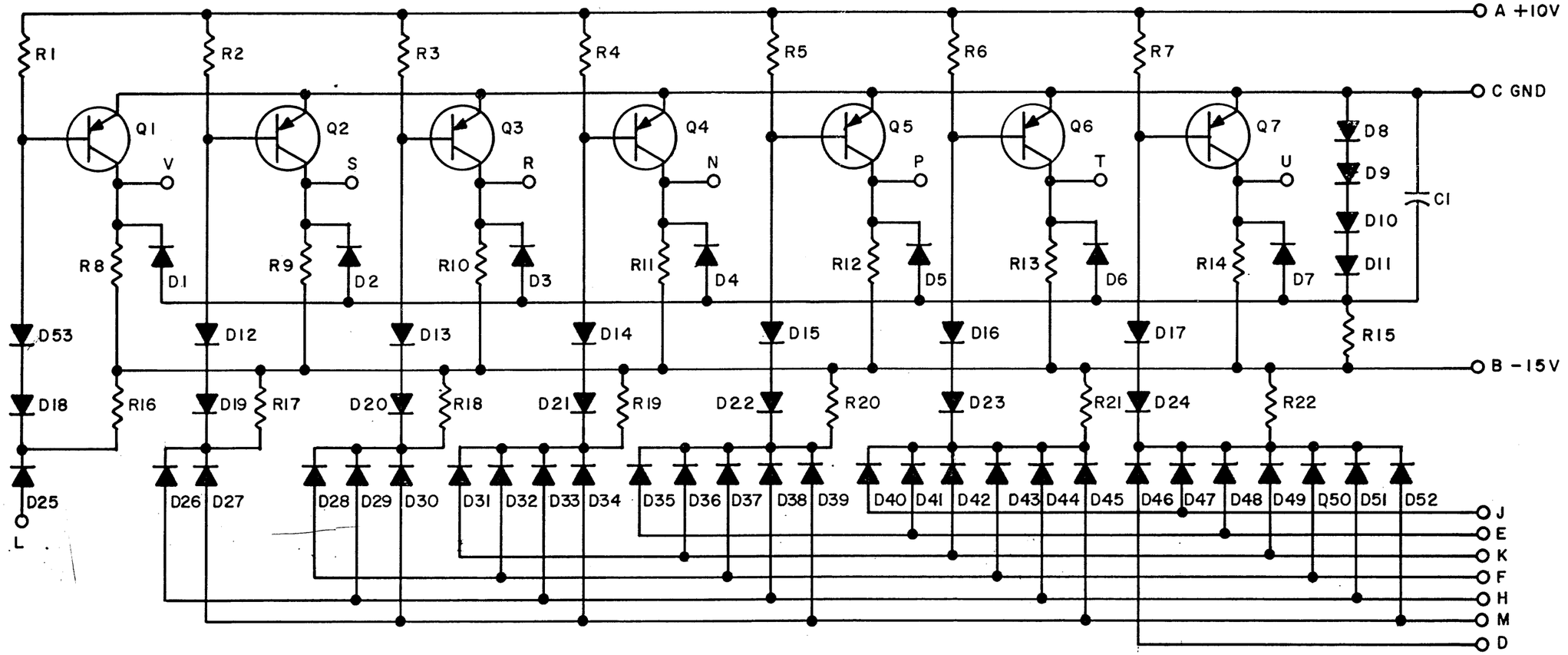

USE THE ETCH BOARD OF THE R181

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-S181-0-0
Q1 THRU Q7	TRANSISTOR DEC3639B	1502762
R16 THRU R22	RES. 15K 1/4W 5%	1300496
R15	RES. 1.5K 1/4W 5% CC	1300391
R8 THRU R14	RES. 3K 1/4W 5% CC	1300432
R1 THRU R7	RES. 100K 1/4W 5% CC	1302466
D1 THRU D7, D25 THRU D52	DIODE D664	1100114
D8 THRU D24, D53	DIODE D662	1100113
C1	CAP. .01MFD 50V -0 +20% DISC	1000001

PARTS LIST

REVISIONS			
REV.	CHG NO.	CHK	
A	6759	REDR. &	

DRN. I. HAHN	DATE 6-11-65		
CHK'D R. SILVERMAN	DATE 6-18-65		
ENG. R. SOGGE	DATE 6-18-65		
PROD.	DATE		

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DC CARRY CHAIN S181

SIZE	CODE	NUMBER	REV.
B	CS	S181-0-1	A

PRINTED CIRCUIT REV. C

DIST. 324 434 435

PINK

DEC FORM NO.
DRB 102

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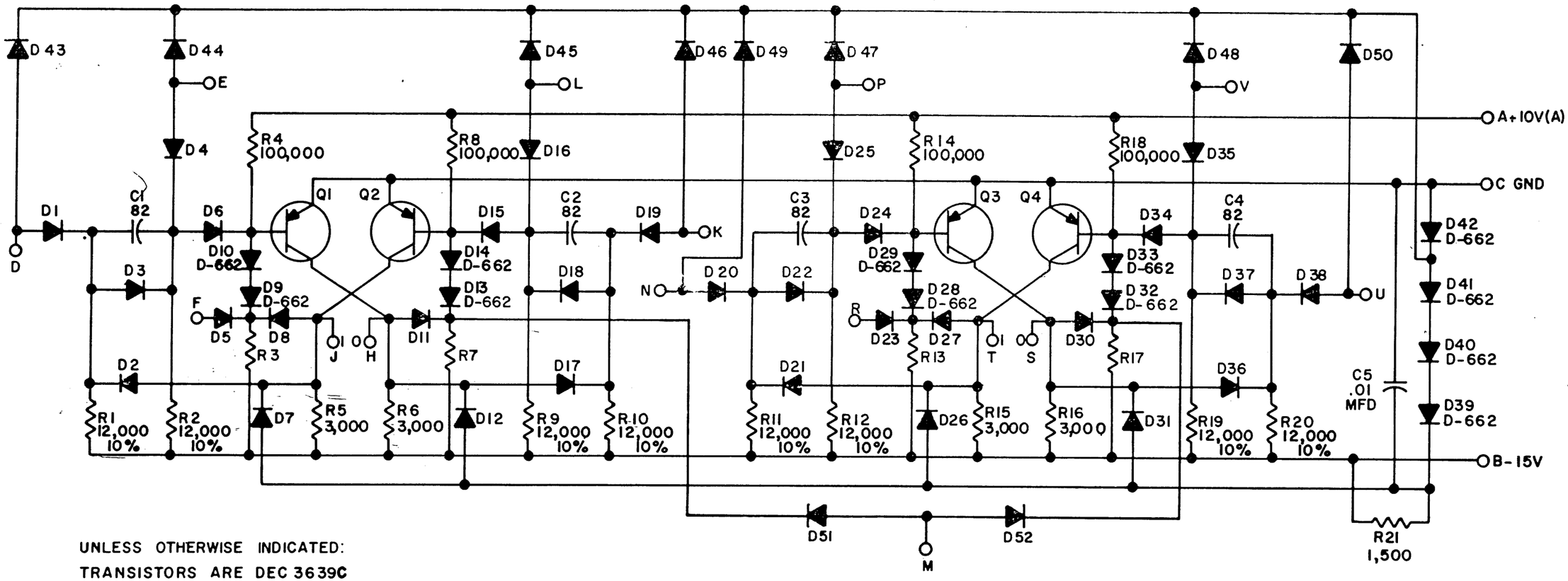

UNLESS OTHERWISE INDICATED:

TRANSISTORS ARE DEC 3639C
RESISTORS ARE 15,000
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE MMFD
DIODES ARE D-664

USE THE ETCH BOARD OF THE R202

REVISIONS				
CHK	DAW	DAW	DAW	
CHG NO.	4994	5469	6493	6683
REV.	1	B	C	D

DRN.	I. HAHN	DATE	6-15-65
CHK'D	R. SIVERMAN	DATE	6-18-65
ENG.	R. SOGGE	DATE	6-18-65
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC 3639C	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DUAL FLIP-FLOP S202

SIZE	CODE	NUMBER	REV.
B	CS	S202-0-1	D

PRINTED CIRCUIT REV. D E

DEC FORM NO.
DRB 102

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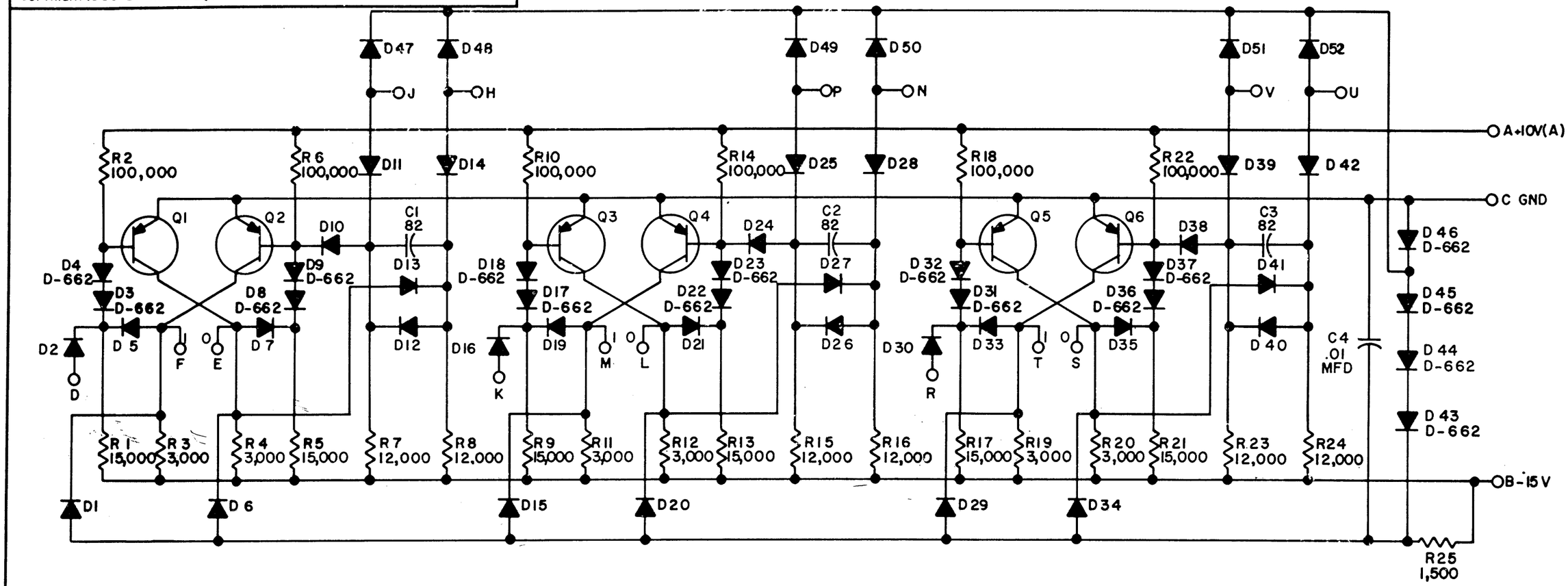

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
CAPACITORS ARE MMFD
DIODES ARE D-664
TRANSISTORS ARE DEC 3639C

USE THE ETCH BOARD OF THE R203

REVISIONS		
CHK	CHG NO.	REV.
DAW	4990	I
REV. B	REDR. 5468	B
Ind	6494	C

DRN.	I. HAHN	DATE	6-11-65
CHK'D	R. SILVERMAN	DATE	6-18-65
ENG.	R. SOGGE	DATE	6-18-65
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639C	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: TRIPLE FLIP-FLOP S203

SIZE	CODE	NUMBER	REV.
B	CS	S203-0-1	C

PRINTED CIRCUIT REV. D

DEC FORM NO.
DRB 102

SIZE B | CODE CS | NUMBER S203-0-1 | REV. C

SIZE	CODE	NUMBER	REV.
B	CS	S205-0-1	D

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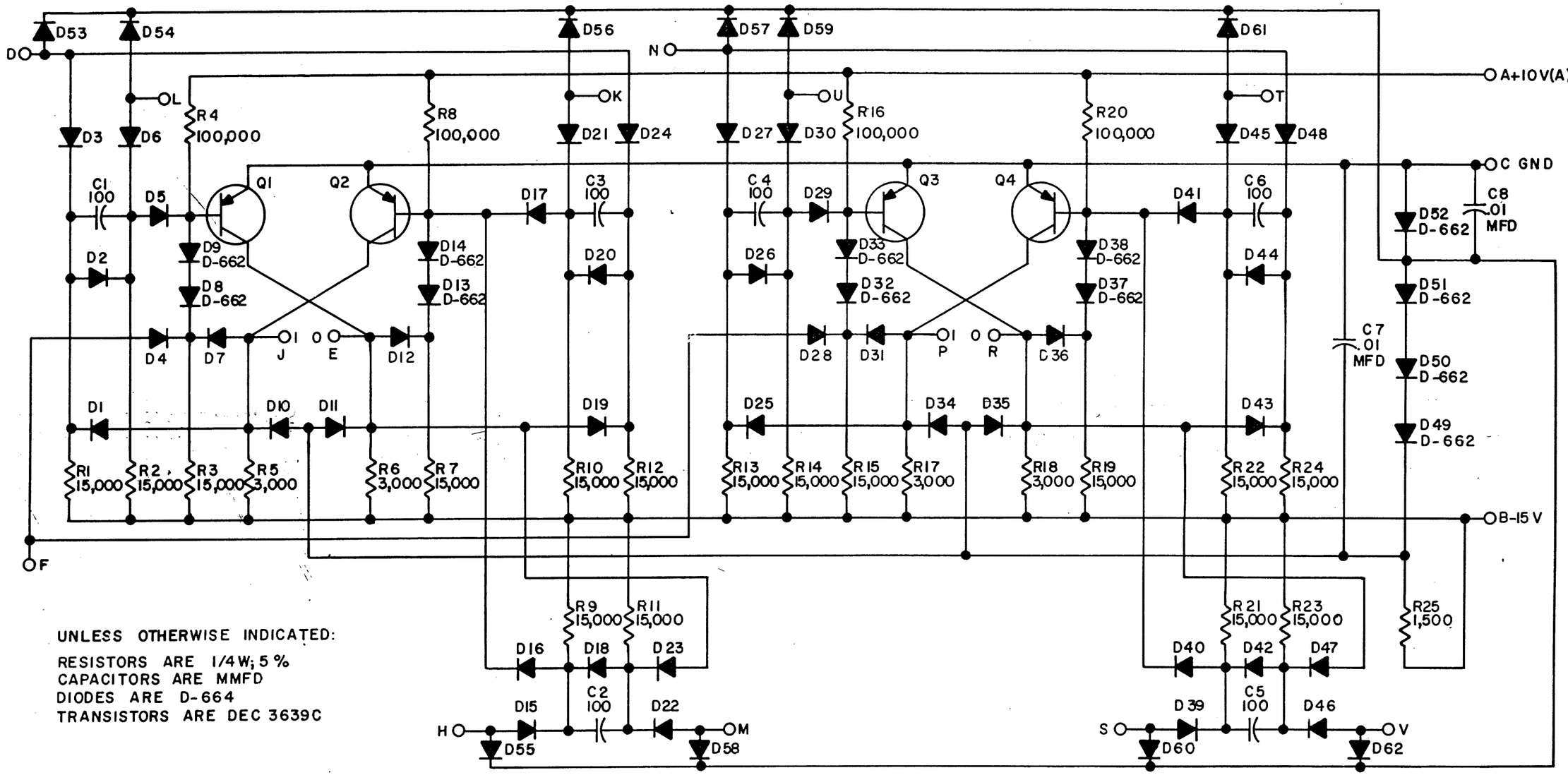

UNLESS OTHERWISE INDICATED:

RESISTORS ARE 1/4W; 5 %
CAPACITORS ARE MMFD
DIODES ARE D-664
TRANSISTORS ARE DEC 3639C

PARTS LIST A-PL-S205-0-0

USE THE ETCH BOARD OF THE R205

REVISIONS			
CHK	DAW	REV.	REV.
CHG NO.	4989	6492	6853
	2	C	D

DRN. I. HAHN	DATE 6-14-65		
CHK'D R. SILVERMAN	DATE 6-18-65		
ENG. R. SOGGE	DATE 6-18-65		
PROD.	DATE		

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639C	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DUAL FLIP FLOP S205

SIZE	CODE	NUMBER	REV.
B	CS	S205-0-1	D

PRINTED CIRCUIT REV. D

DIST. 324 434 435

DEC FORM NO.
DRB 102

PINK

SIZE	CODE	NUMBER	REV.
B	CS	S602-0-1	H

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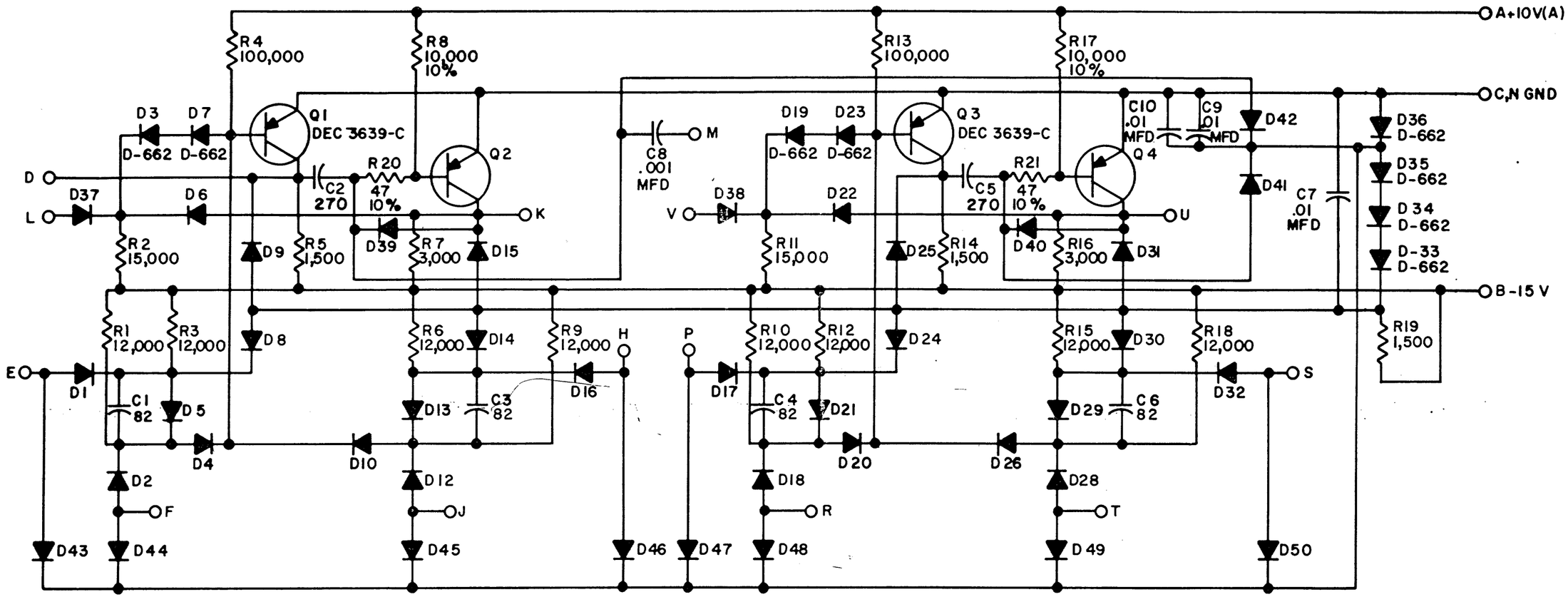

UNLESS OTHERWISE INDICATED:

RESISTORS ARE 1/4W; 5%
CAPACITORS ARE MMFD
DIODES ARE D-664
TRANSISTORS ARE DEC2894-2B

USE THE ETCH BOARD OF THE R602

REVISIONS			
CHK	CHG NO.	REV.	
DAW	5275	2	
REV.	AREDR. 5372 Rml 5386	C	
Rml	8924	D	
Rml	6684	E F H	

DRN. I HAHN	DATE 6-14-65	
CHK'D R SILVERMAN	DATE 6-18-65	
ENG. R SOGGE	DATE 6-18-65	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC2894-2B	NONE		
DEC3639-C	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PULSE AMPLIFIER S602

SIZE	CODE	NUMBER	REV.
B	CS	S602-0-1	H

PRINTED CIRCUIT REV. H K

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	S603-0-1	E

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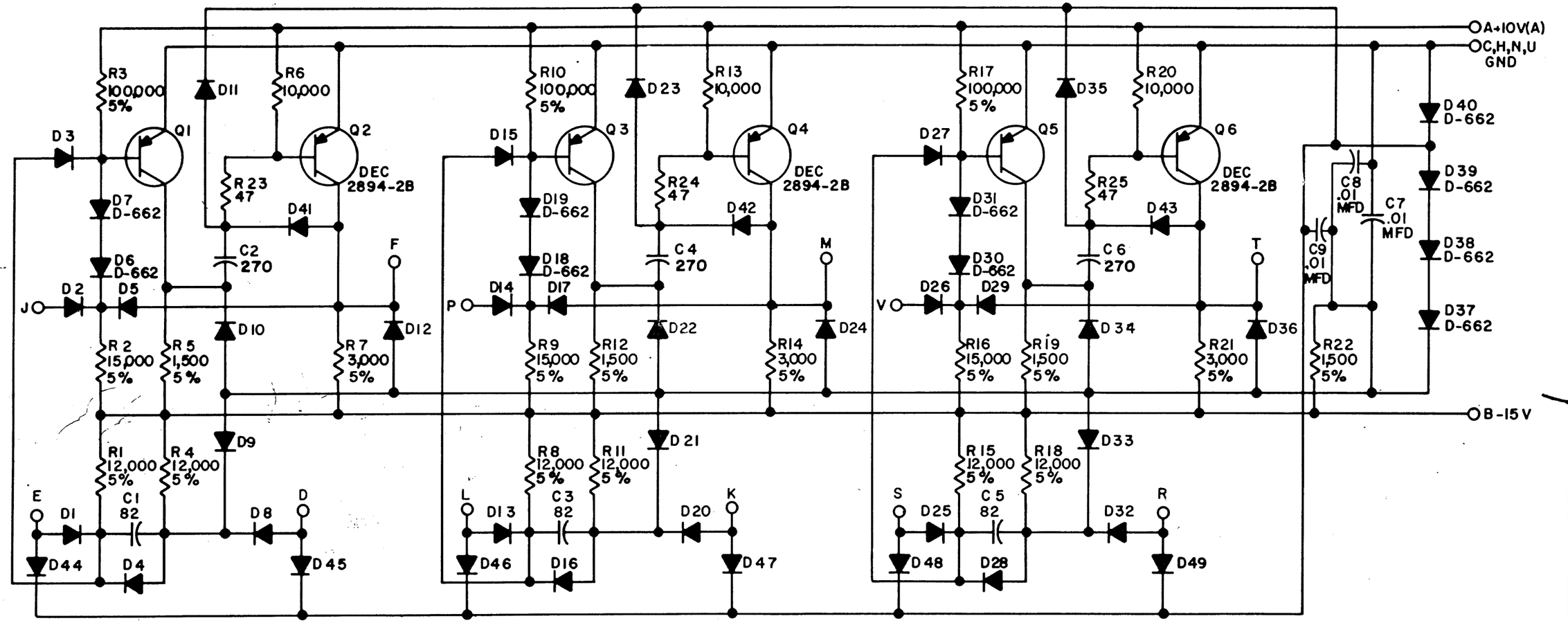

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
CAPACITORS ARE MMFD
DIODES ARE D-664
TRANSISTORS ARE DEC 3639-C

USE THE ETCH BOARD OF THE R603

PARTS LIST A-PL-S603-0-0

REVISIONS				
REV.	2		D	E
CHG NO.	5273		5923	6859
CHK				
DAW				
REV. & REDR.	C			
	Prm 5371			

DRN.	I HAHN	DATE	6-14-65
CHK'D	R SILVERMAN	DATE	6-18-65
ENG.	R. SOGGE	DATE	6-18-65
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC 2894-2B	NONE		
DEC 3639C	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PULSE AMPLIFIER S603

SIZE	CODE	NUMBER	REV.
B	CS	S603-0-1	E

PRINTED CIRCUIT REV. D

DEC FORM NO.
DRB 102

PINK

DIST. 324 434 435

SIZE	CODE	NUMBER	REV
B	CS	W002-0-1	B

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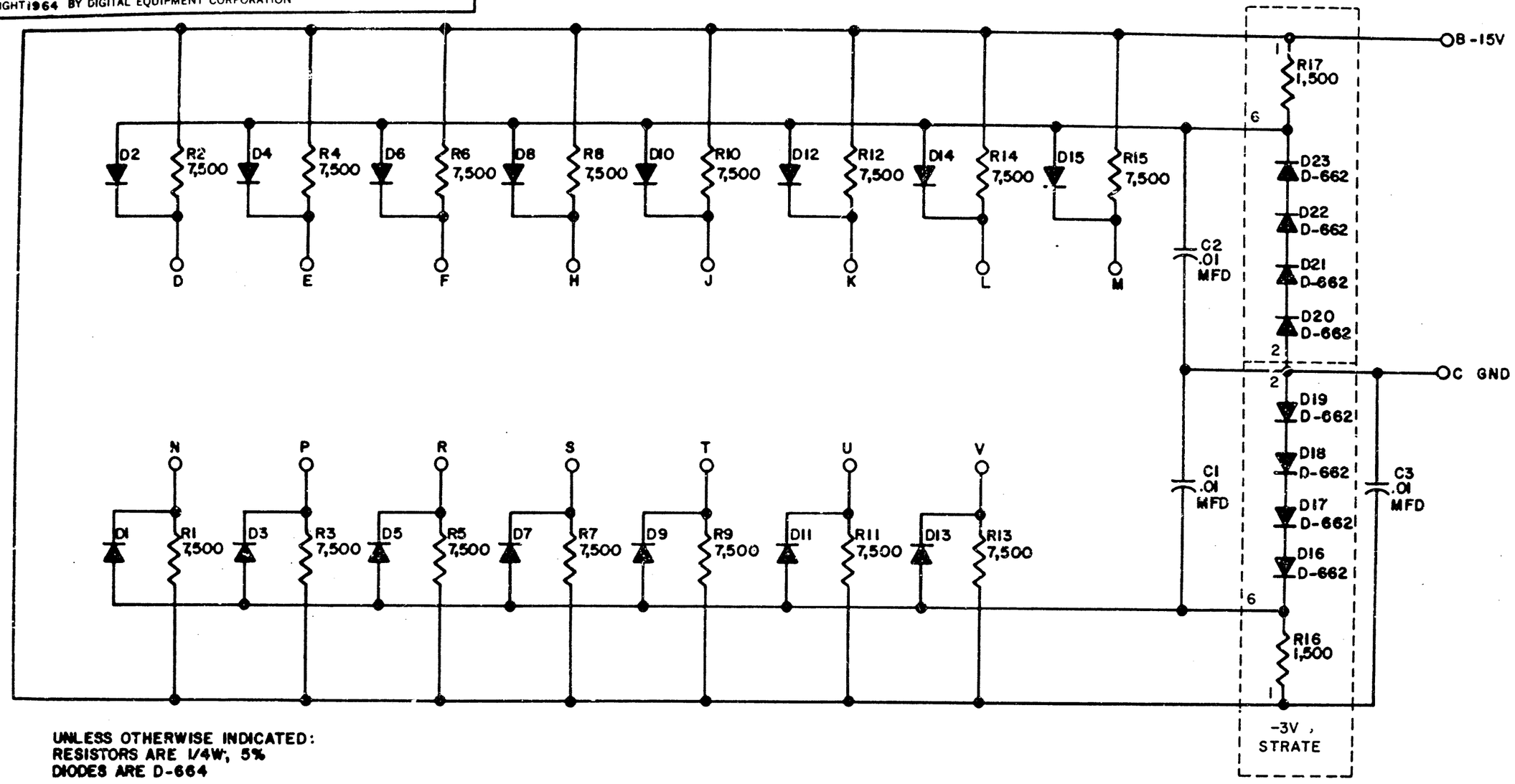

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
DIODES ARE D-664

USE THE ETCH BOARD OF THE W005

REVISIONS	CHK	CHG NO.	REV.
		281	1
		8396	B

	DRN.	DATE
	A. OUELLETTE	7-31-64
	CHK'D N. PERRYMAN	8-4-64
	ENG. B. SCUDNEY	8-4-64
	PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CLAMP LOADS W002

SIZE	CODE	NUMBER	REV.
B	CS	W002-0-1	B

PRINTED CIRCUIT REV A B

FORM NO. SAB 102

SIZE	CODE	NUMBER	REV.
B	CS	W005-0-1	B

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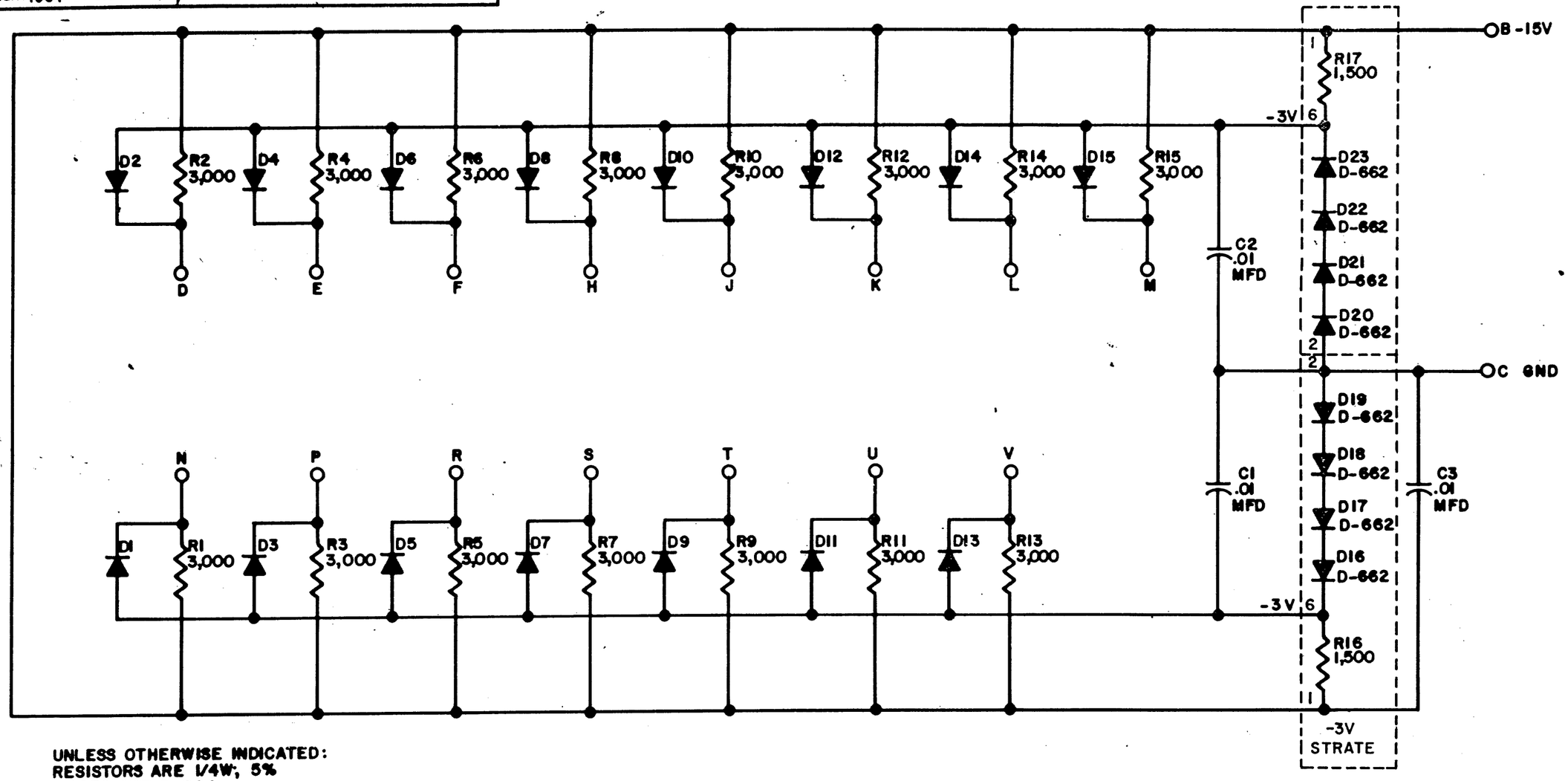

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
DIODES ARE D-664

REVISIONS			
CHK	CHG NO.	REV.	
DAW	5037	1	
REV. & REDR.	5397	B	

DRN. H. PORTER	DATE 4-27-64	
CHK'D N. PERRYMAN	DATE 5-4-64	
ENG. B. SCUDNEY	DATE 5-4-64	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: CLAMPED LOADS W005

SIZE	CODE	NUMBER	REV.
B	CS	W005-0-1	B

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	W010-0-1	

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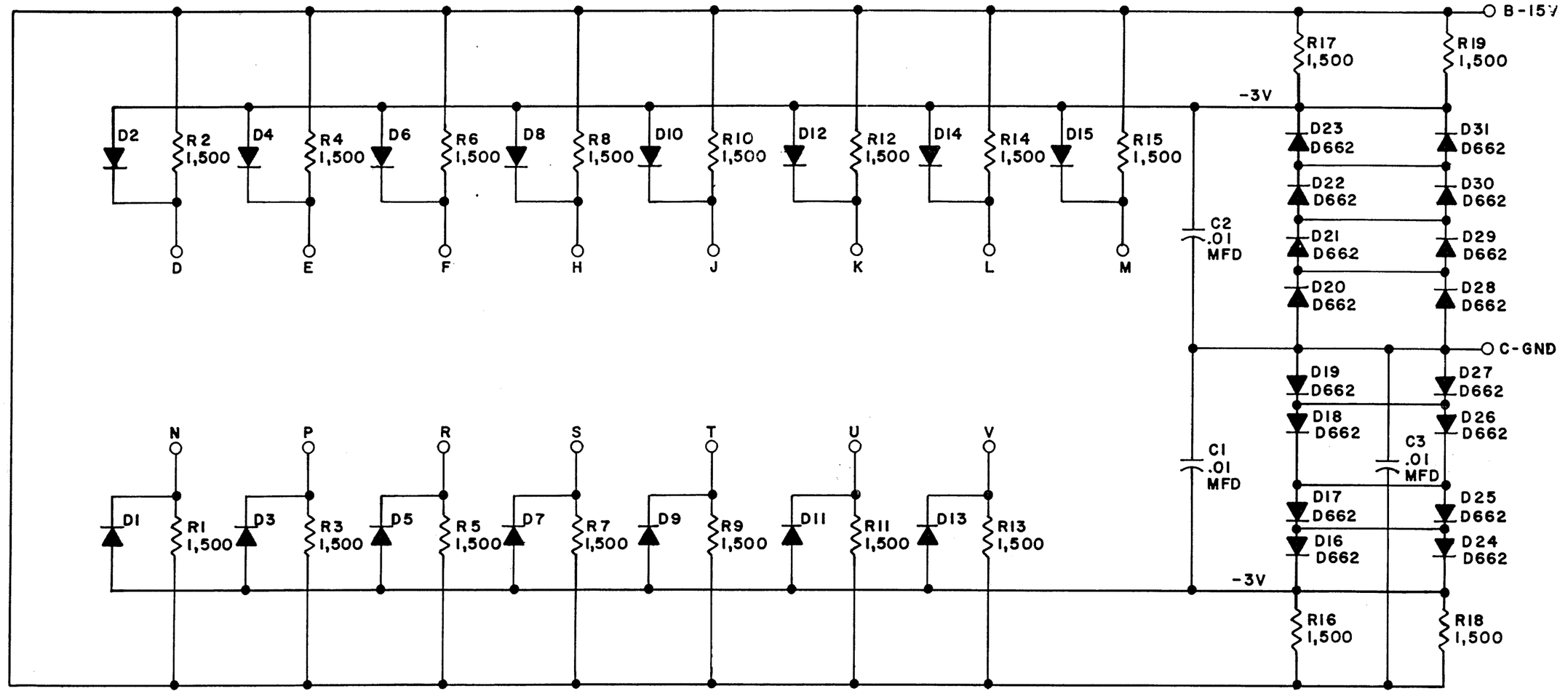

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4; 5%
DIODES ARE D664

REVISIONS	REV.	CHG NO.	CHK

		DATE
DRN.	M. Haller	11-15-66
CHK'D.	A. Silverman	11/15/66
ENG.	D. Stotz	11/15/66
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
CLAMPED LOADS W010

SIZE	CODE	NUMBER	REV.
B	CS	W010-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

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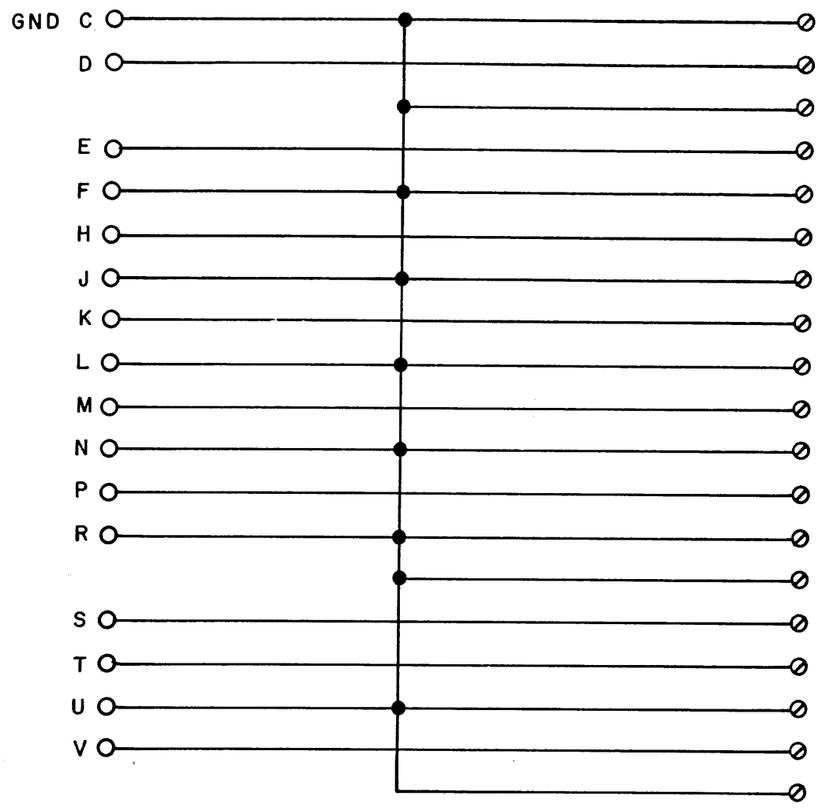

UNLESS OTHERWISE INDICATED:
⊘ INDICATES SPLIT LUG

REVISIONS	CHK	CHG NO.	REV.
	RMS	6526	1
	REV.	& REDR. 00001	B

DRN. I. HAHN	DATE 5-17-65	
CHK'D R. SILVERMAN	DATE 5-17-65	
ENG. R. CAJOLET	DATE 5-17-65	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE SIGNAL CABLE CONNECTOR W011

SIZE	CODE	NUMBER	REV.
B	CS	W011-0-1	B

PRINTED CIRCUIT REV. B

DEC FORM NO. DRB 102

5

DIST. 3,2,1,0,31,1,43,5,3

PINK

SIZE	CODE	NUMBER	REV.
B	CS	W012-0-1	B

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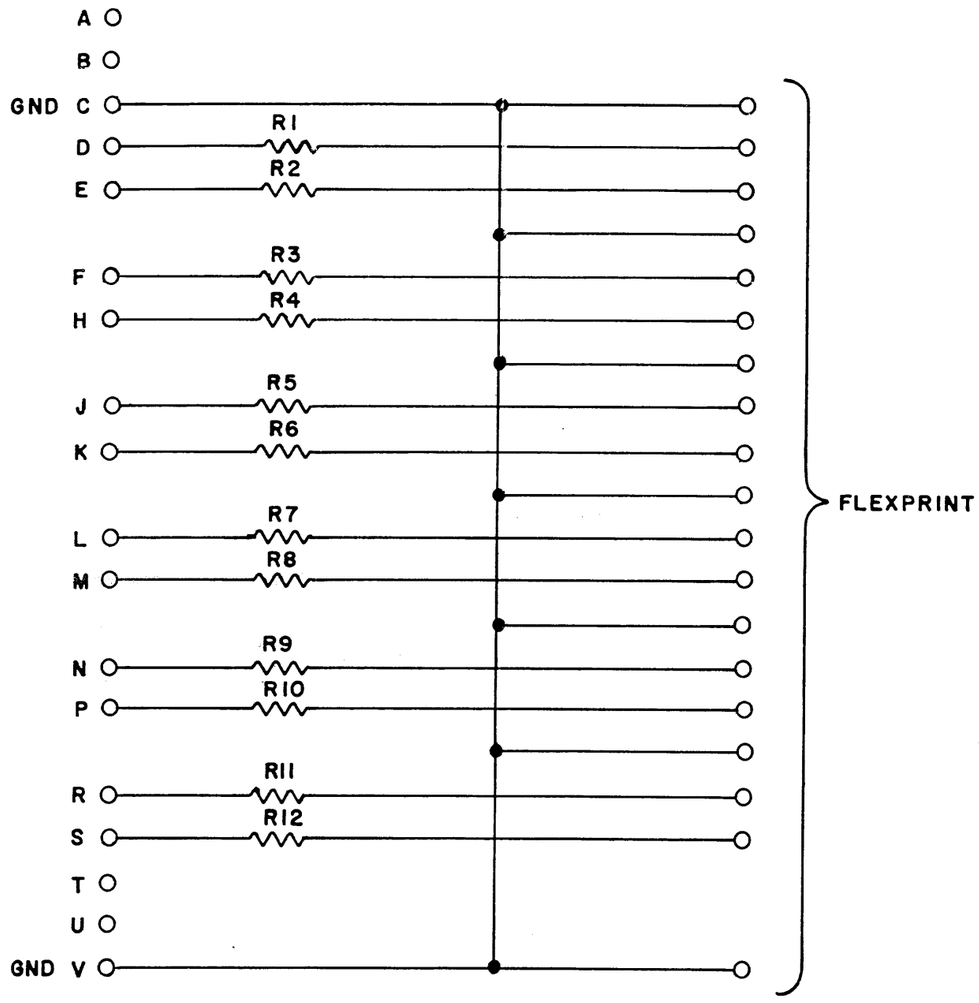

REFERENCE DESIGNATION	PARTS LIST DESCRIPTION	PART NO.
R1 – R12	RES. 1.5K 1/4W 5% CC	1300391
	PARTS LIST	A-PL-W012-0-0

PARTS LIST

REVISIONS			
REV.	CHG NO.	CHK	
A	5832	REV & REDR	
B	7146		

DRN. M. HALLER	DATE 11-1-66
CHK'D R. SILVERMAN	DATE 11-1-66
ENG. J. SIMEONE	DATE 11-11-66
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: INDICATOR CABLE CONNECTOR W012

SIZE	CODE	NUMBER	REV.
B	CS	W012-0-1	B

PRINTED CIRCUIT REV. B C

DEC FORM NO. DRB 102

DIST. 324 434 435 359 PINK

SIZE	CODE	NUMBER	REV.
B	CS	W013-0-1	B

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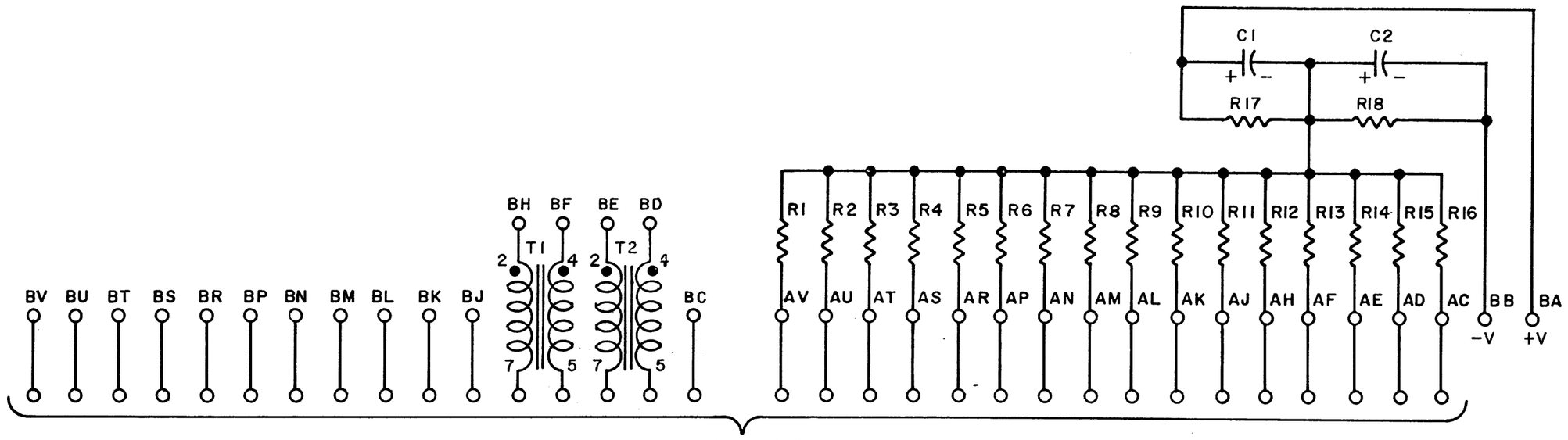

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-W013-0-0
T1, T2	TRANSFORMER T2052	1205794-02
R17, R18	RES. 470 2W 5% CC	1303062
R1 THRU R16	RES. 330 1W 10% CC	1300298
C1, C2	CAP. 50MFD 25V -10 +75% ELECT	1001796

PARTS LIST

REVISIONS	CHK	CHG NO.	REV.
	WM	00001	A
		00002	B

DRN. M. Waller	DATE 2-6-68	
CHK'D	DATE 2/14/68	
ENG	DATE 2/9/68	
PROD J. Gannon	DATE 2-8-68	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE WORD SINK STACK CONNECTOR W013

SIZE	CODE	NUMBER	REV.
B	CS	W013-0-1	B

PRINTED CIRCUIT REV. A B

DIST. 324 434 435

DEC FORM NO. DRB 102

PINK 5

THIS SCHEMATIC IS [illegible]
CIRCUITS ARE PROPRIETARY [illegible]
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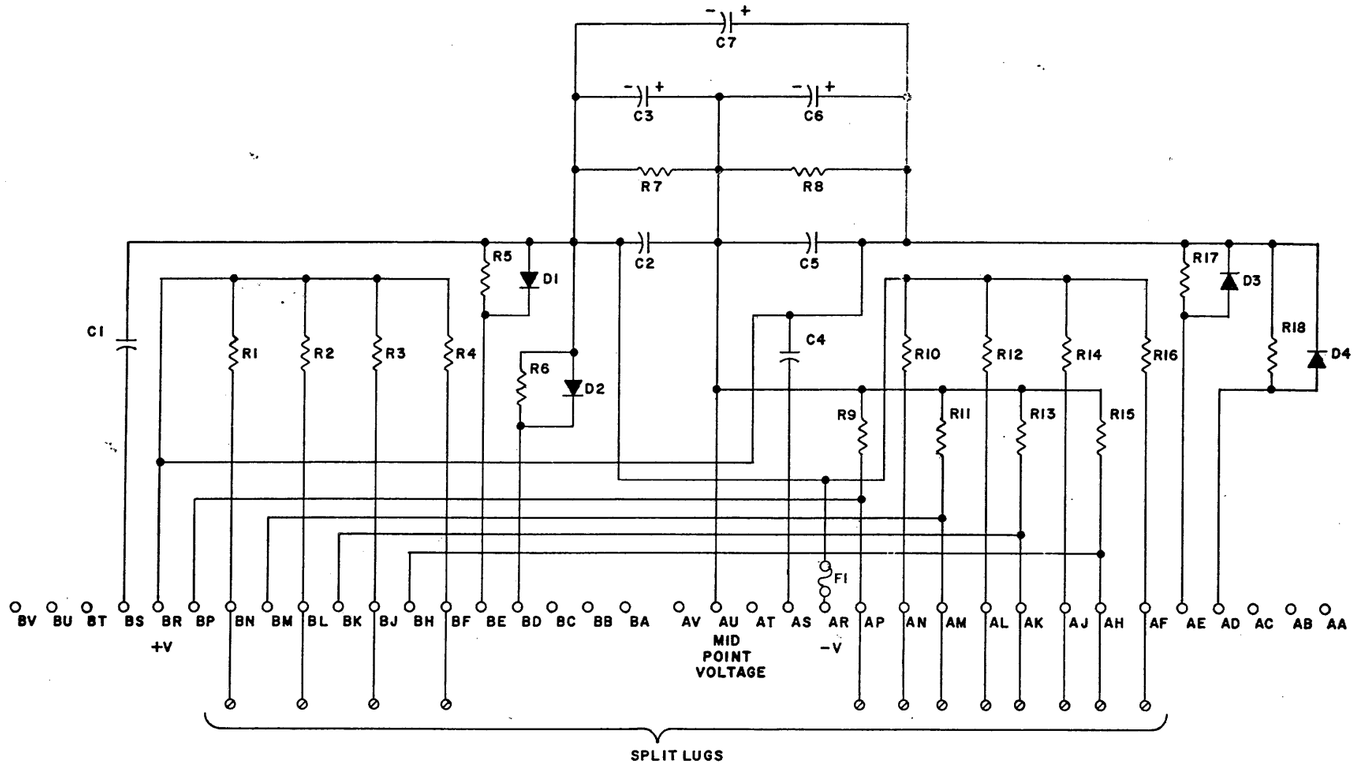

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-W014-0-0
C1, C4	CAP. 470 MMF 100V 5% D.M.	1000024
C2, C5	CAP .01 MFD 100V 20% DISC	1001610
C3, C6, C7	CAP. 20 MFD 50V -10+75% ELECT	1002839
D1 - D4	DIODE D671	1103309
R1 - R4, R10, R12, R14, R16	RES. 1K 1/4W 5% CC	1300365
R5, R17	RES. 20 10W 1% WW	1300187
R6, R18	RES. 40 10W 1%	1305787
R7, R8	RES. 470 2W 5% CC	1303062
R9, R11, R13, R15	RES. 82 1/2W 10% CC	1300225
F1	FUSE 1/2 AMP. BUSS GFA	9007208

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D671	1N3653		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: DIGIT STACK CONNECTOR W014

SIZE	CODE	NUMBER	REV.
C	CS	W014-0-1	D

PRINTED CIRCUIT REV. A

DRN.	DATE
M. Walker	11-9-67
CHK'D	DATE
	11/10/67
ENG.	DATE
	11/13/67
PROD. 3	DATE

REVISIONS		
CHK	CHG NO.	REV.
	7174	D

DEC FORM NO. DRC 102

SIZE C | CODE CS | NUMBER W014-0-1 | REV. D

SIZE	CODE	NUMBER	REV.
B	CS	W017-0-1	A

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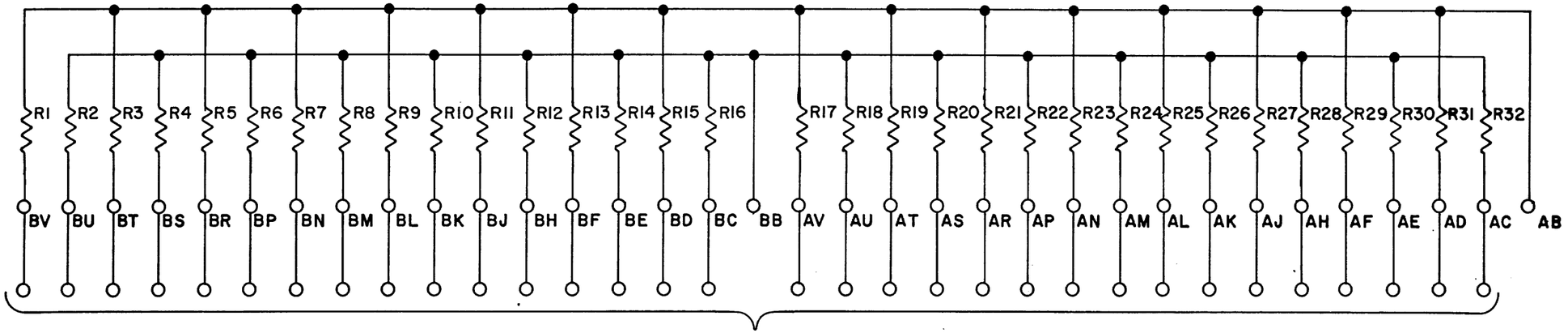


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 470;1W 5%

PARTS LIST IS A-PL-W017-0-0

REVISIONS	REV.	CHG NO.	CHK
	A	00001	

DRN.		DATE 8-24-66
CHK'D.		DATE 9-1-66
ENG.	Jon Hughes	DATE 8/31/66
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE WORD DRIVE STACK CONNECTOR W017

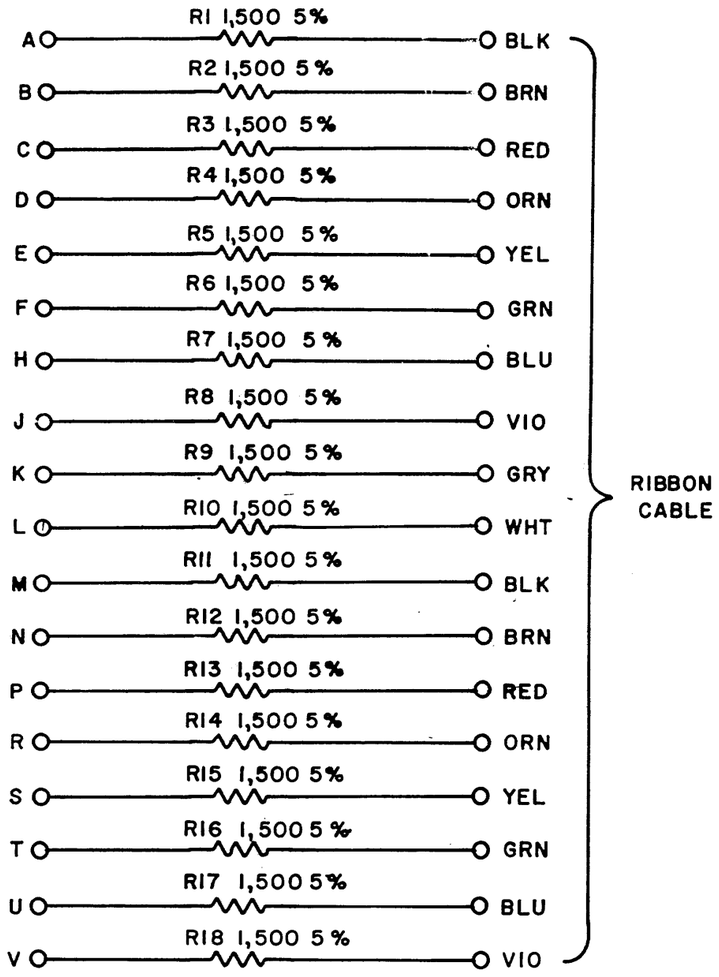
SIZE	CODE	NUMBER	REV.
B	CS	W017-0-1	A

PRINTED CIRCUIT REV. A B

DEC FORM NO.
DRB 102

5. DIST. 2,4,434,4 PINK

CS-B-W020-1

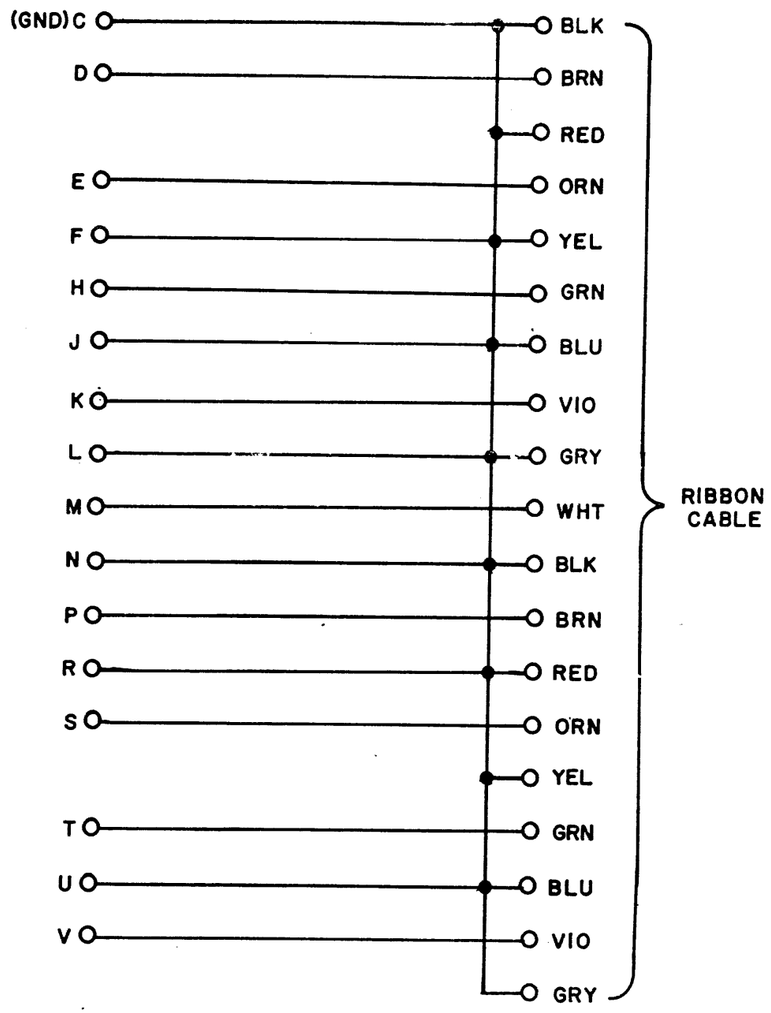


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W

A B C D E F H J K L M N P R S T U V

	6529-1	ECO. NO.	REVISIONS	DRAFTSMAN N. PERRYMAN DATE 6/9/64	CHECKER M Stamper DATE 6-10-64	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CODE CS	DWG. NO. B-W020	REV. 1
		ENG.		ENGINEER R Wallace DATE 6-10-64	PRODUCTION DATE	TITLE INDICATOR CABLE CONNECTOR W020			

CS-B-W021-1



6530-1	ECO. NO.	REVISIONS	DRAFTSMAN N. PERRYMAN DATE 6/9/64	CHECKER DATE 6.1.64	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CODE CS	DWG. NO. B-W021	REV. 1
	ENG.		ENGINEER DATE	PRODUCTION DATE	TITLE SIGNAL CABLE CONNECTOR W021			

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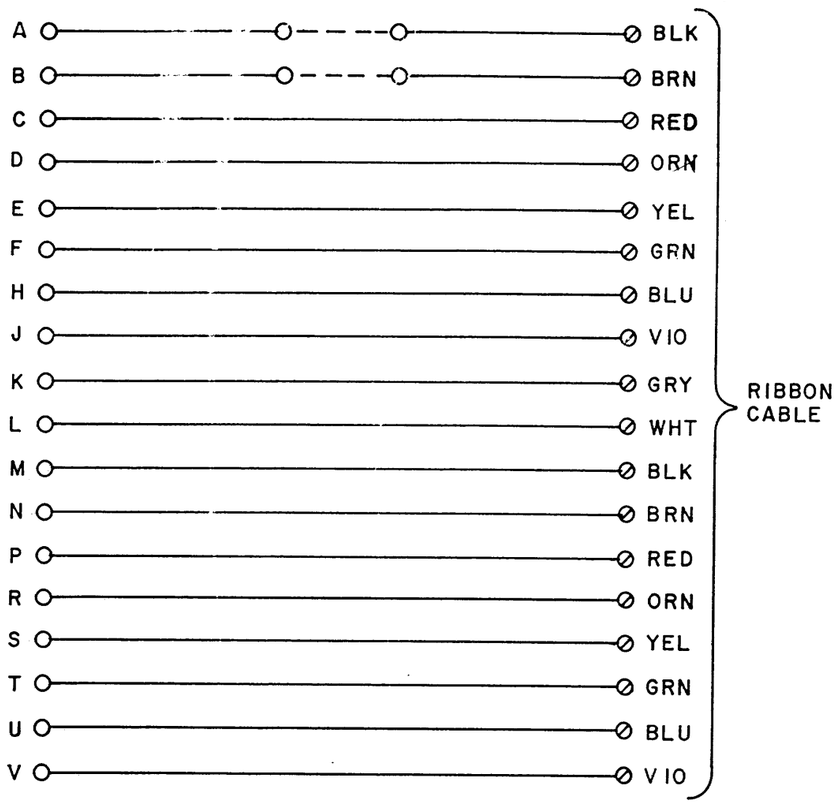

NOTE:
⊘ ARE SPLIT LUGS

PARTS LIST IS A-PL-W023-0-0

REVISIONS	REV.	CHG NO.	CHK

DRN. M. Haller	DATE 10-16-68	
CHK'D M. Haller	DATE 10-18-68	
ENG. A. Gabriel	DATE 11-12-68	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: CONNECTOR W023

SIZE	CODE	NUMBER	REV.
B	CS	W023-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

PINK DIST.

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SIZE	CODE	NUMBER	REV.
B	CS	W025-0-1	

AC
AD
AE
AF
AH
AJ
AK
AL
AM
AN
AP
AR
AS
AT
AU
AV

BC
BD
BE
BF
BH
BJ
BK
BL
BM
BN
BP
BR
BS
BT
BU
BV

UNLESS OTHERWISE INDICATED:
Ø ARE SPLIT LUGS

REVISIONS	REV.	CHG NO.	CHK

DRN. R. BUTLER	DATE 4/7/69	
CHK'D M. Marshall	DATE 4-7-69	
ENG. D. BEVINS	DATE	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE CONNECTOR BOARD W025

SIZE	CODE	NUMBER	REV.
B	CS	W025-0-1	

PRINTED CIRCUIT REV. B

DEC FORM NO. DRB 102

5 PINK DIST. 321,434,435

SIZE	CODE	NUMBER	REV.
B	CS	W028-0-1	A

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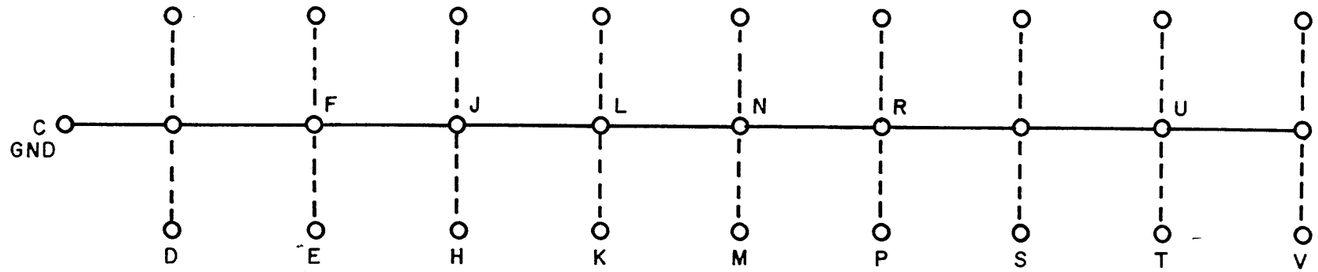

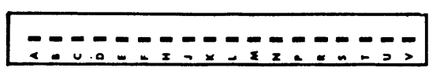

PARTS LIST A-PL-W028-0-0

REVISIONS	REV.	CHG NO.	CHK
	A	6534	

DRN.	M. Waller	DATE 2-14-68
CHK'D		DATE
ENG.	G. Gerald	DATE 2-20-68
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
TERMINATED BOARD W028

SIZE	CODE	NUMBER	REV.
B	CS	W028-0-1	A

PRINTED CIRCUIT REV. C

DEC FORM NO.
DRB 102

PINK DIST. 324 434 435 2

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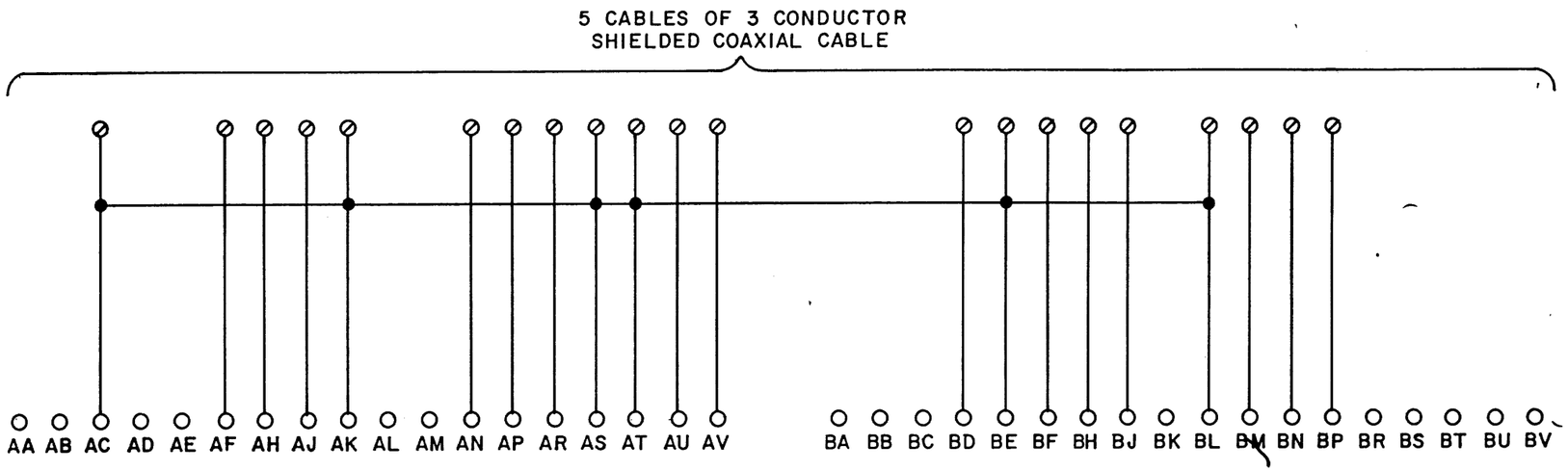

NOTE:
Ø ARE SPLIT LUGS

PARTS LIST IS A-PL-W032-0-0

REVISIONS	REV.	CHG NO.	CHK

DRN. M. Haller	DATE 10-16-68	
CHK'D W. D. Gibbs	DATE 10-17-68	
ENG. B. Stone III	DATE 11-12-68	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: CONNECTOR W032

SIZE	CODE	NUMBER	REV.
B	CS	W032-0-1	

PRINTED CIRCUIT REV. A

DIST 434 359 PINK

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	W033-0-1	B

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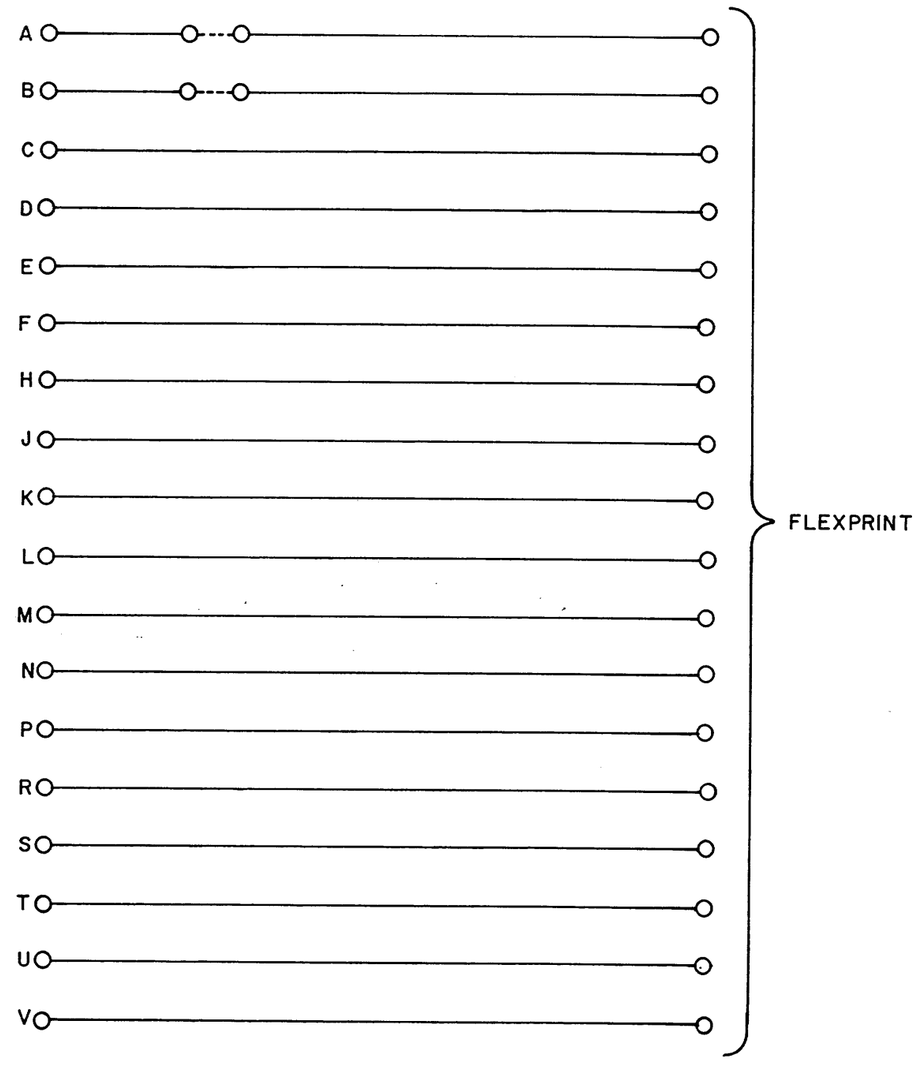


REVISIONS	CHK	CHG NO.	REV.
	Ras	6647	A
	Ras	6679	B

		DATE
DRN.	M Bergeron	5/2/66
CHK'D.	P Silverman	5/9/66
ENG.	R Bank	5/2[illegible]
PROD.	R Bank	5/2/66

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

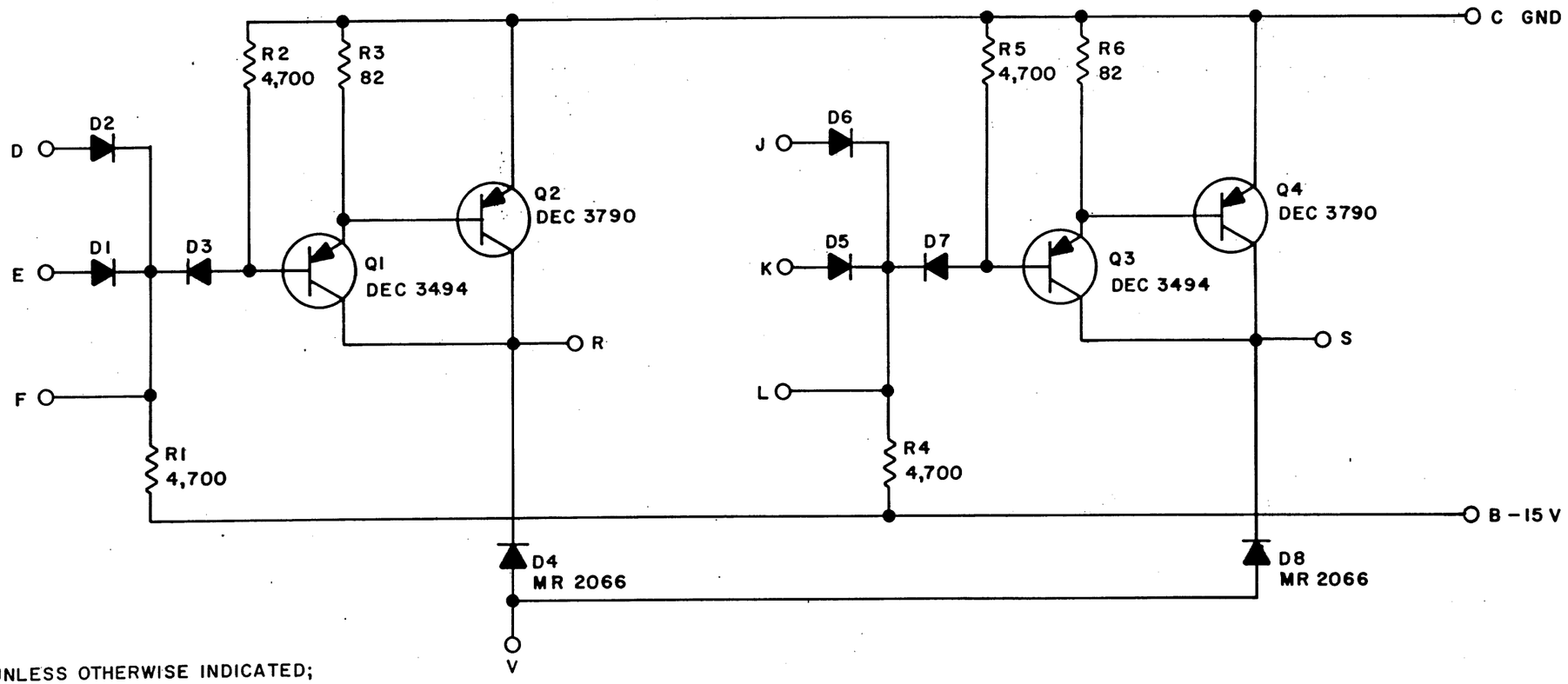
TITLE
CABLE CONNECTOR W033

SIZE	CODE	NUMBER	REV.
B	CS	W033-0-1	B

PRINTED CIRCUIT REV. A B C

DEC FORM NO.
DRB 102

CS-B-W040-2



UNLESS OTHERWISE INDICATED;
RESISTORS ARE 1/4W; 10%
DIODES ARE D-664

REDRAWN AND REVISED 5190-2	ECO.NO.	REVISIONS	DRAFTSMAN A.OUELLETTE DATE 7-28-64	CHECKER N. PERRYMAN DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CODE CS	DWG. NO. B-W040	REV. 2
	ENG.		ENGINEER R. BANK DATE 7-29-64	PRODUCTION 1 DATE	TITLE SOLENOID DRIVER W040			

SIZE	CODE	NUMBER	REV.
B	CS	W051-0-1	E

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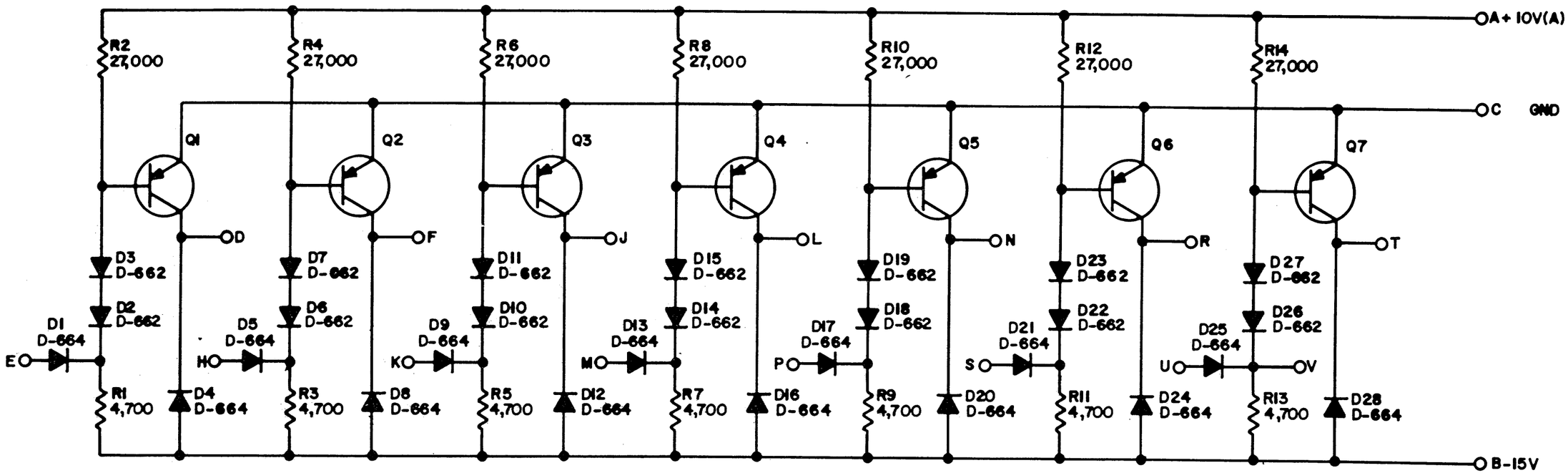

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
TRANSISTORS ARE DEC 6534B

REVISIONS	CHK	CHG NO.	REV.
	RMS	5612	2
	REV & REDR	6389	E

DRN. H.W.PORTER	DATE 11-18-64	
CHK'D N.PERRYMAN	DATE 11-20-64	
ENG. D.A.WHITE	DATE 11-20-64	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534B	MPS6534		
D662	IN645		
D664	1N3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: 100 MA INDICATOR & RELAY DRIVER W051

SIZE	CODE	NUMBER	REV.
B	CS	W051-0-1	E

PRINTED CIRCUIT REV. D

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	W076-0-1	D

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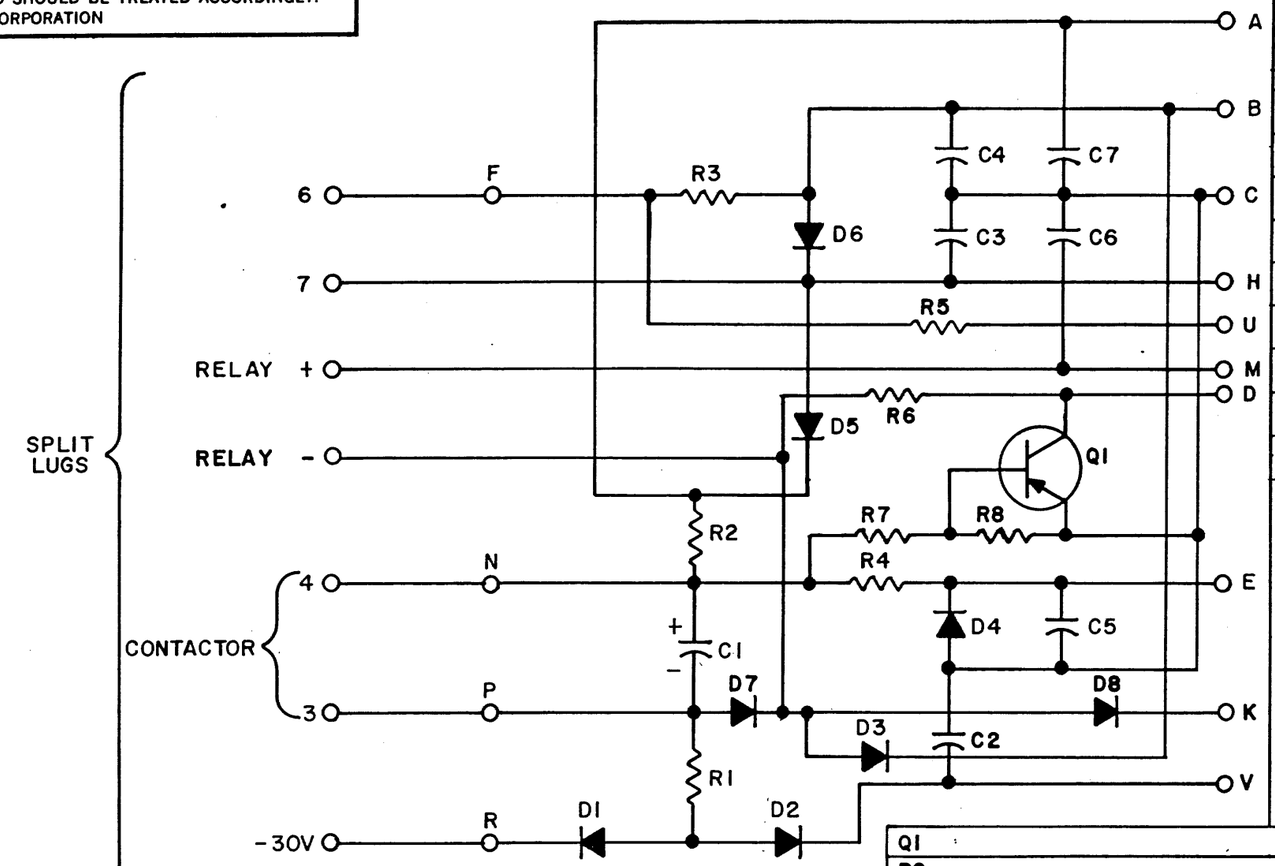

TYPICAL PIN ASSIGNMENTS

PIN	8	8I, 8L	DC08
A	+10V	+5V	+5V
B	-15V	-15V	+5V
C	GND	GND	GND
H	LOGIC INPUT	LOGIC INPUT	—
U	—	—	LOGIC INPUT
M	READER ENABLE	READER ENABLE	READER ENABLE
D	LOGIC OUTPUT	—	—
E	—	LOGIC OUTPUT	LOGIC OUTPUT
K	—	—	-15V
V	-30V OPTIONAL	-30V OPTIONAL	-30V OPTIONAL

PARTS LIST

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
Q1	TRANSISTOR DEC6534D	1503409
R8	RES. 1.5K 1/4W 5% CC	1300391
R6	RES. 1.8K 1/2W 10% CC	1300400
R7	RES. 10K 1/4W 10% CC	1300481
R3,R4	RES. 750 1/2W 5% CC	1300354
R2	RES. 750 2W 5% CC	1301984
R1	RES. 1K 1W 10% CC	1301499
R5	RES. 120 1/2W 5% CC	1300243
D1-D8	DIODE D671	1103309
C2-C7	CAP. .01MFD 100V 20% DISC	1001610
C1	CAP. 1MFD 150V 10% FOIL	1000063
	PARTS LIST	A-PL-W076-0-0

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534D	MPS6534		
D671	IN3653		

REVISIONS	CHK	CHG NO.	REV.
REV. & REDR. 7010	R.S. W.M.	00001	B
		00002	
	R.S.	00003	C
		00004	
	R.S.	00005	D

		DATE
DRN.	M. HALLER	5-18-67
CHK'D	N. PERRYMAN	5-23-67
ENG.	R. SOGGE	5-25-67
PROD.		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: TELETYPE CONNECTOR W076

SIZE	CODE	NUMBER	REV.
B	CS	W076-0-1	D

PRINTED CIRCUIT REV. D

DEC FORM NO. DRB 102

PINK DIST. 324 434 435

SIZE B | CODE CS | NUMBER W078-0-1 | REV.

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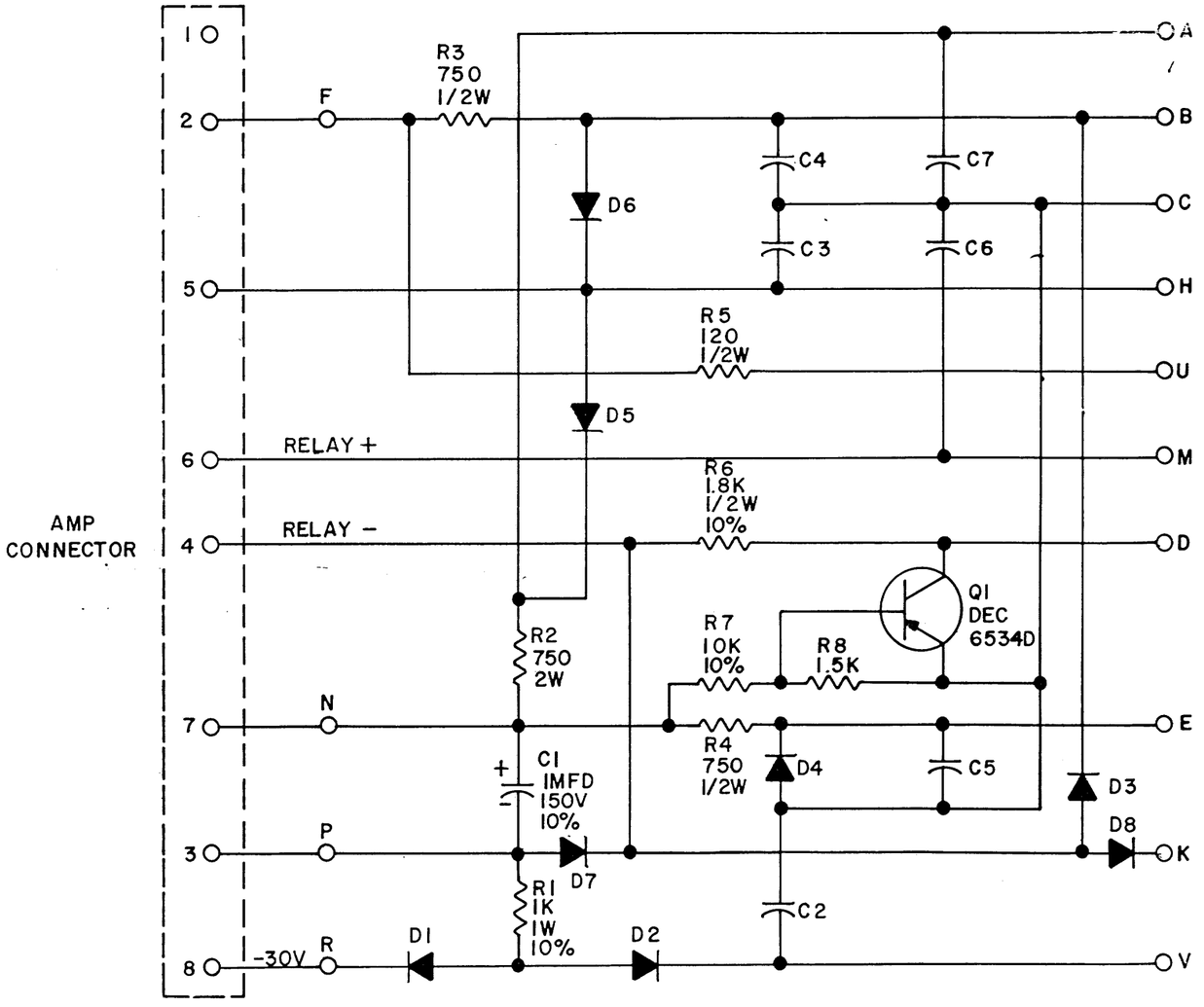
TYPICAL PIN ASSIGNMENTS			
PIN	8	8I, 8L	DC08
A	+10V	+5V	+5V
B	-15V	-15V	+5V
C	GND	GND.	GND
H	LOGIC INPUT	LOGIC INPUT	——
U	——	——	LOGIC INPUT
M	READER ENABLE	READER ENABLE	READER ENABLE
D	LOGIC OUTPUT	——	——
E	——	LOGIC OUTPUT	LOGIC OUTPUT
K	——	——	-15V
V	-30V OPTIONAL	-30V OPTIONAL	-30V OPTIONAL



UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01MFD 100V, 20%
DIODES ARE D671
RESISTORS ARE 1/4W, 5%
CONNECTOR IS DEC#1209456

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D671	IN3653		
DEC6534D	MPS6534D		

REVISIONS					
REV.	CHG NO.	CHK	DRN.	P Clemmons	DATE 9-26-69
			CHK'D.	T.A. Valette	DATE 10/13/69
			ENG.		DATE
			PROD.		DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: TELETYPE CONNECTOR W078

SIZE	CODE	NUMBER	REV.
B	CS	W078-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO.

5 DIST. 32,44,34,43,53 PINK

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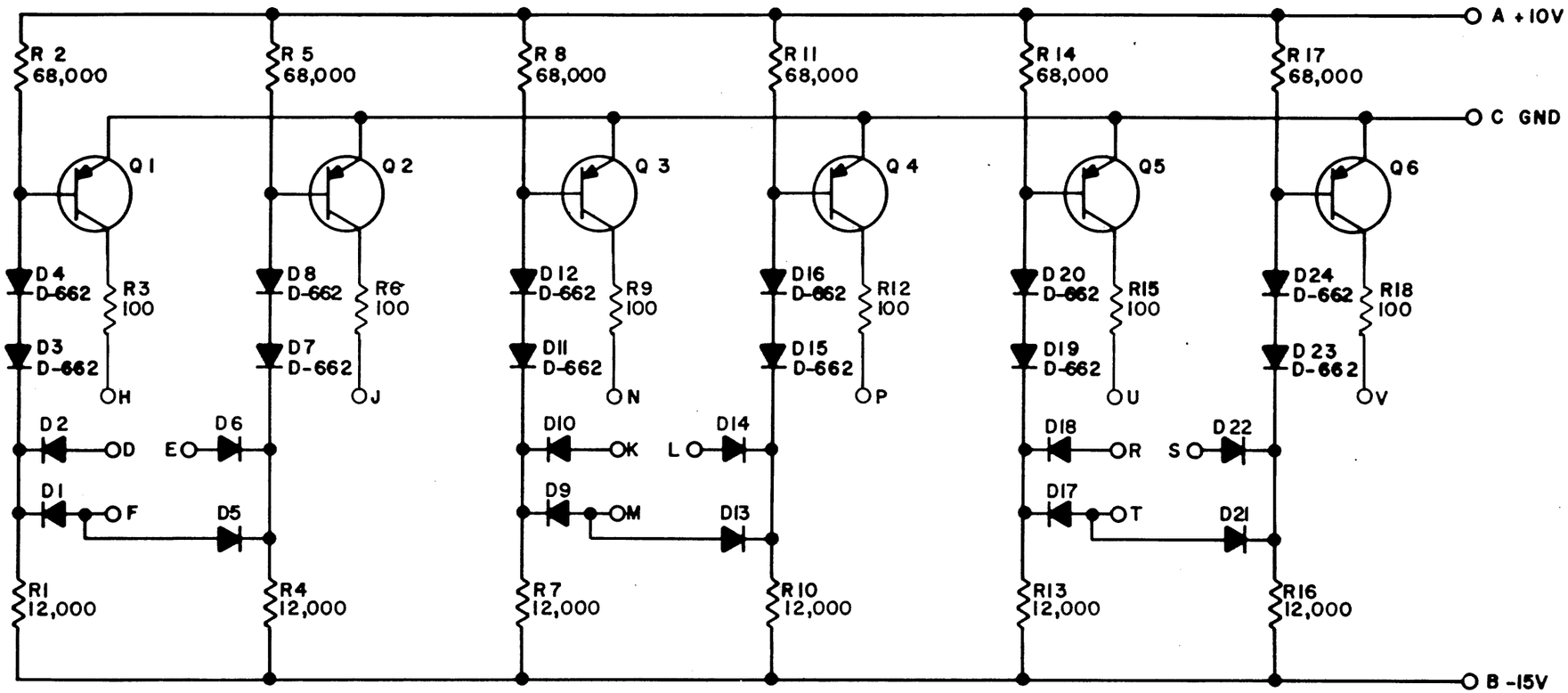

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 2894-1B
RESISTORS ARE 1/4 W, 10%
DIODES ARE D-664

REVISIONS			
REV.	A	B	
CHG NO.	5672	5705	
CHK	REV. & REDR.		

DRN. A. OUELLETTE	DATE 8-31-64	
CHK'D N. PERRYMAN	DATE 9-4-64	
ENG. D. WHITE	DATE 9-4-64	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC2894-1B	NONE		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: IO BUS DRIVER WIOI

SIZE	CODE	NUMBER	REV.
B	CS	WIOI-0-1	B

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV
B	CS	W102-0-1	N

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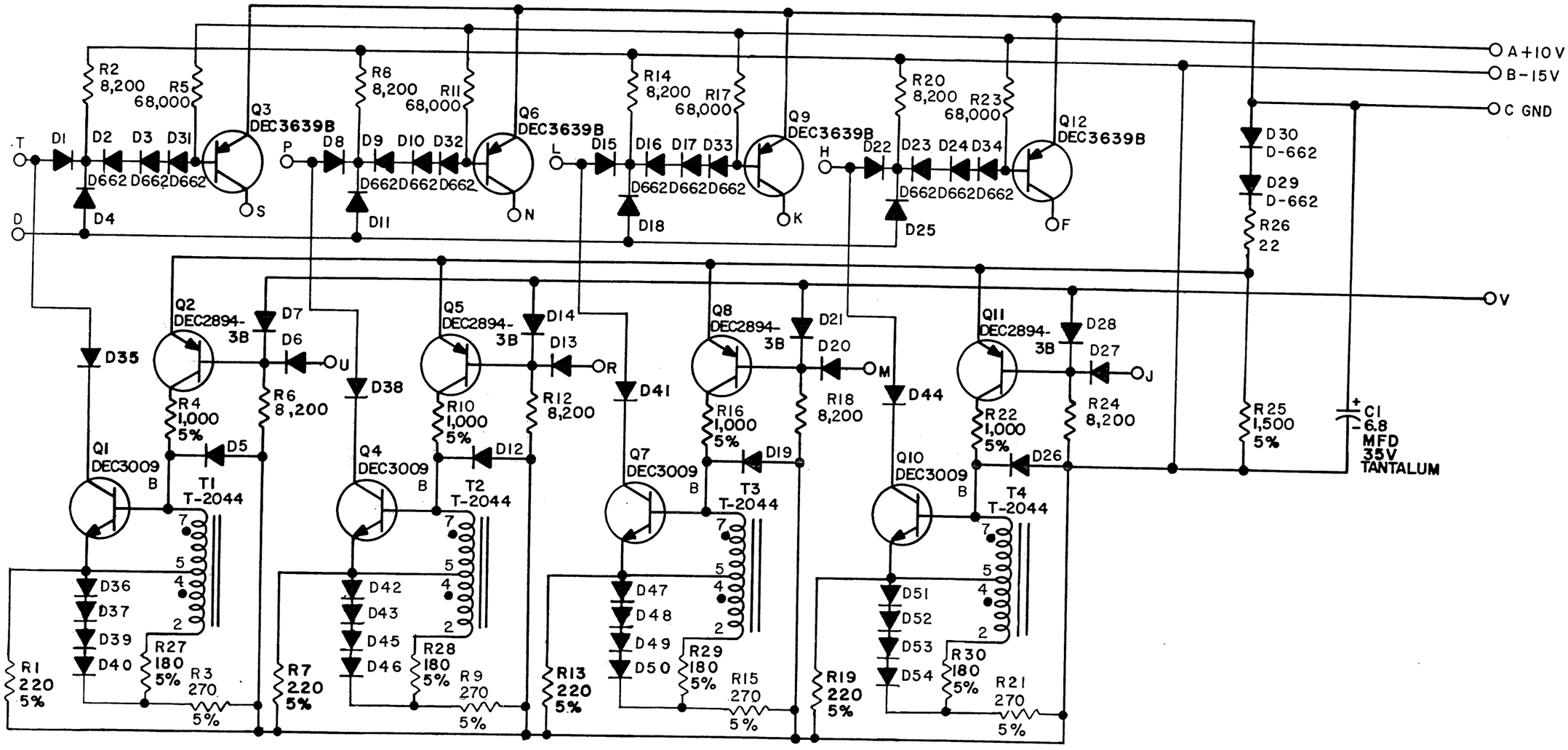

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
DIODES ARE D-664
PARTS LIST A-PL-W102-0-0

REVISIONS	CHK	CHG NO	REV
	DAW	5338	5-6
	REV & REDR.	5863	H
	Prod	7132	K
	Prod	00001	L
	Prod	00002	M
	Prod	00003	N
	SULLIVAN		

DRN. H.W. PORTER	DATE 10-12-64	
CHK'D N. PERRYMAN	DATE 10-22-64	
ENG. D.A. WHITE	DATE 10-22-64	
PROD. R. Wesselman	DATE 1-31-73	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC2694-3B	NONE		
DEC3639B	2N3639		
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: PULSED BUS TRANSCEIVER W102

SIZE	CODE	NUMBER	REV.
B	CS	W102-0-1	N

PRINTED CIRCUIT REV. J

DEC FORM NO. DRB 102

DIST. 324 434 3 2-1 2 1

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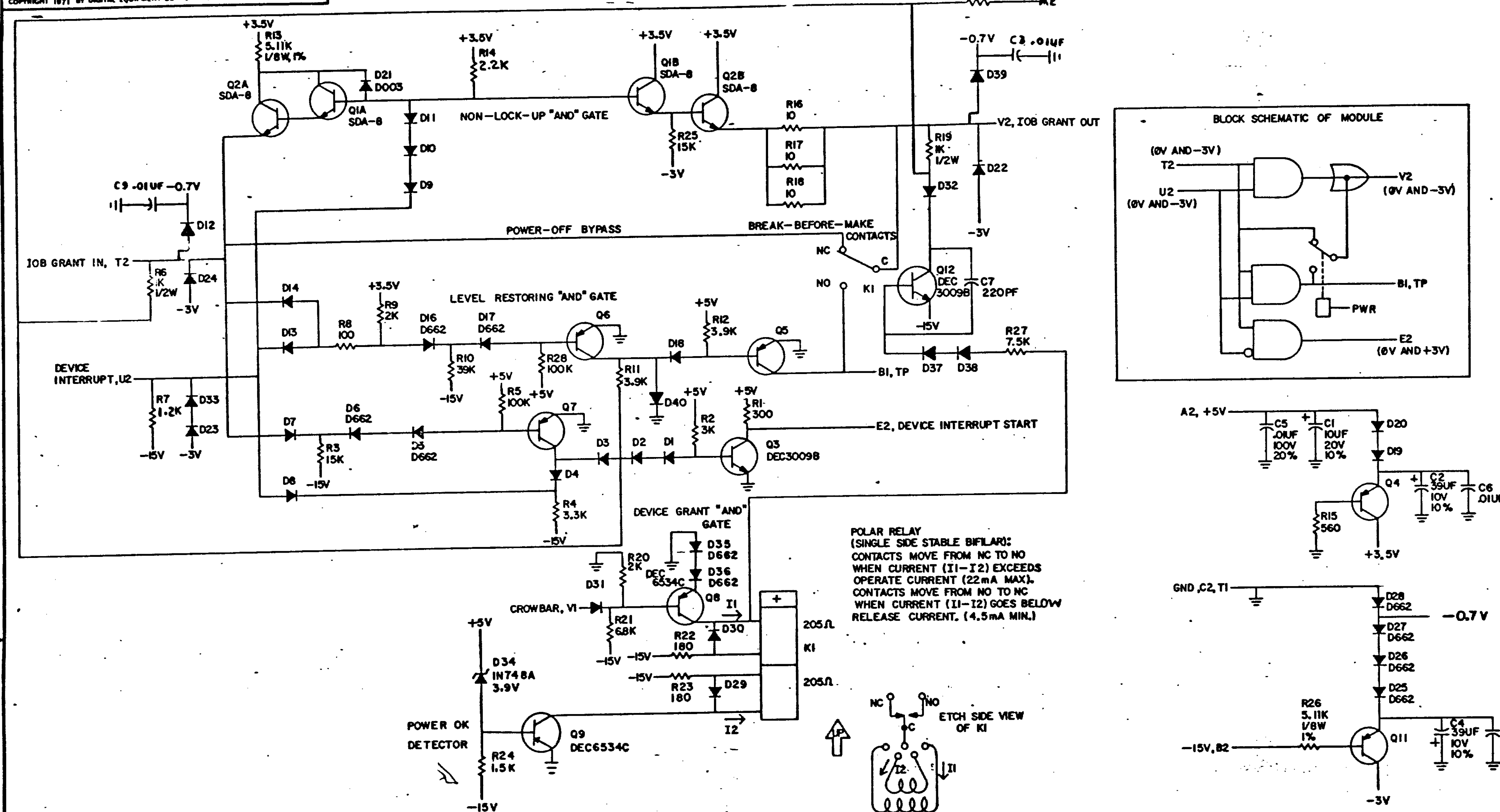
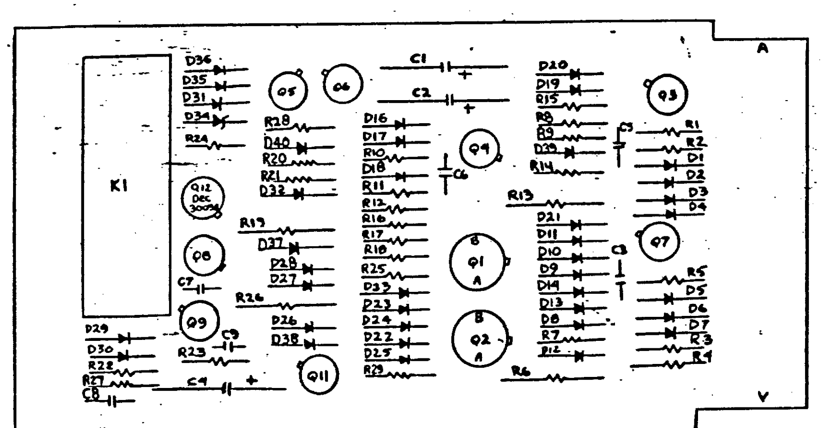


UNLESS OTHERWISE INDICATED:
TRANSISTORS = DEC4258
RESISTORS = 1/4W, 5%
DIODES = D664
K1 = MIDTEX/AEMCO 166-152-NØØ



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
42	1503409-02	TRANSISTOR DEC 6534C	2
41	1301423	RES. 6.8K ¼W 5%	1
39	1300391	RES. 1.5K ¼W 5%	1
38	1301322	RES. 180 ¼W 5%	2
36	1100122	DIODE 1N748A 3.9V	1
35	9008337-03	HANDLE, FLIP CHIP - WHITE	1
34	9006732	EYELET #GS4-7	2
33	1210093-0	RELAY, MIDTEX	1
32	1505321	TRANSISTOR 2N4258	5
31	1503100	TRANSISTOR DEC 3009B	2
30	1502105	TRANSISTOR SDA-8	2
29	1304854	RES. 5.11K, 1/8W, 1% MF	2
28	1301320	RES. 1.2K, ¼W, 5%	1
27	1302514	RES. 39K, ¼W, 5%	1
26	1302466	RES. 100K, ¼W, 5%	1
25	1302388	RES. 2K, ¼W, 5%	2
24	1301890	RES. 560, ¼W, 5%	1
23	1300444	RES. 3.9K, ¼W, 5%	2
22	1301425	RES. 300, ¼W, 5%	2
21	1301422	RES. 7.5K, 1/4W 5%	1
20	1301317	RES. 10, ¼W, 5%	3
19	1300496	RES. 15K, ¼W, 5%	2
18	1302466	RES. 100K, 1/4W, 5%	1
17	1300439	RES. 3.3K, ¼W, 5%	1
16	1300432	RES. 3K, ¼W, 5%	1
15	1300417	RES. 2.2K, 1/4W, 5%.	1
14	1300364	RES. 1K, ¼W, 5%	2
12	1000021	CAP. 220 PF, 100V, 5%	1
11	1300229	RES. 100, ¼W, 5%	1
10	1100114	DIODE D664	27
9	1100113	DIODE D662	10
8	1100100	DIODE D003	1
7	1004813	CAP. 10UF, ± 20V, 10% S. TANT	1
6	1001610	CAP. .01UF, 100V, 20% DISC	5
5	1000076	CAP. 39UF, ±10V, 10% S. TANT	2
4	5009402	ETCHED CIRCUIT BOARD	1
3	B-MH-W106-0-6	MODULE ECO HISTORY	
2	C-AH-W106-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CC-W106-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

REVISIONS			
CHR	CHG NO	REV.	
1/71	00001	B	WALTON
3/72	00002	C	B. WALTON
	00003	D	H. Bowman / WALTON
	00004	E	WALTON

DRN	HARRY MOORE	DATE 1/11/70
CHK'D		DATE 3-1-71
ENG.		DATE 3-1-71
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D003	1N994	D662	1N645
D664	1N3606	DEC4258	2N4258
DEC3009B	2N3009	SDA-8	NONE
1N748A	SAME		
DEC6534C	MPS6534		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE P.I. REQUEST GRANT W106

SIZE	CODE	NUMBER	REV.
D	CS	W106-0-1	E

PRINTED CIRCUIT REV. D

SIZE	CODE	NUMBER	REV.
B	CS	W107-0-1	B

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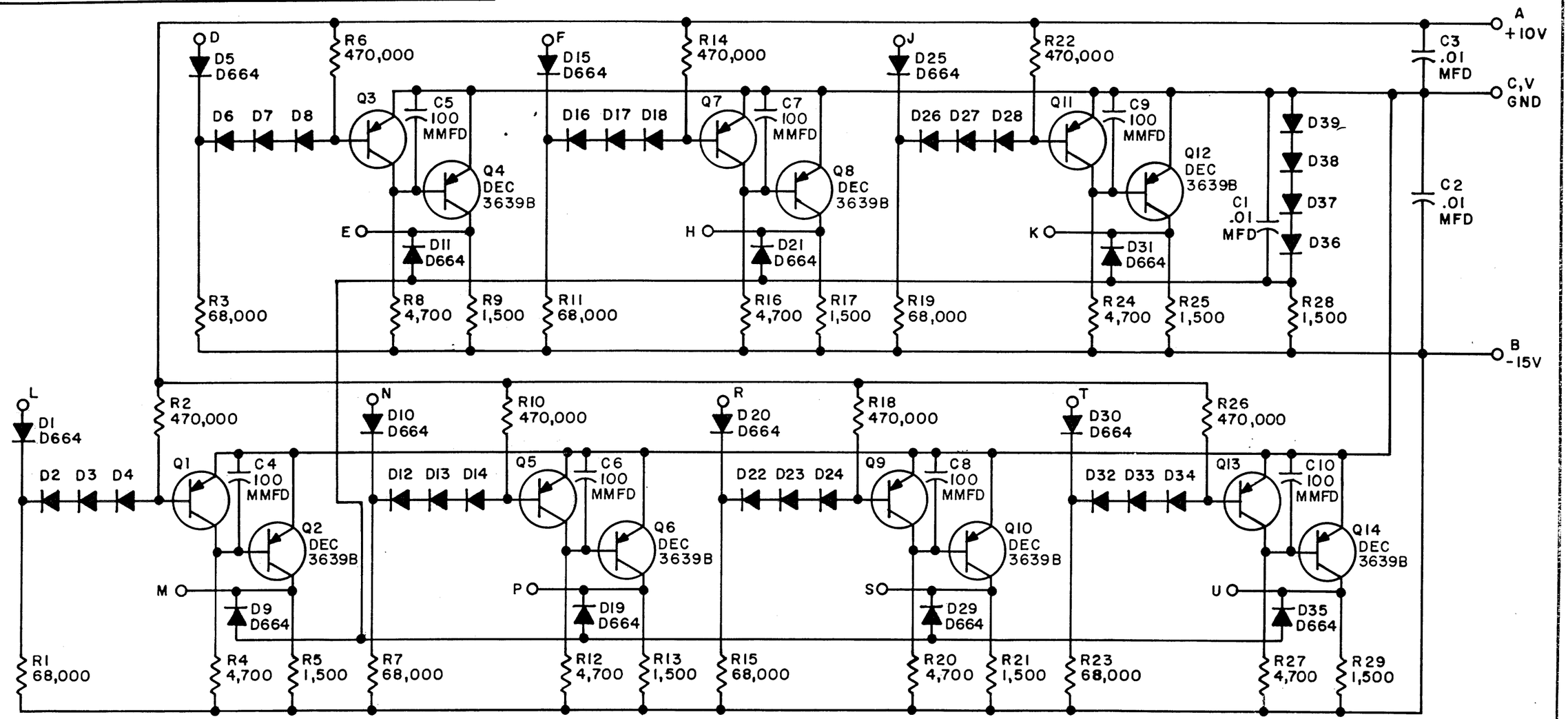

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
DIODES ARE D662
TRANSISTORS ARE DEC3639C

REVISIONS	REV.	CHG NO.	CHK
	A	6827	Card

		DATE
DRN.	M. Waller	3-13-67
CHK'D	P. Subramanian	3/15/67
ENG.	K. Boudahy	3/21/67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		
DEC3639B	2N3639		
DEC3639C	2N3639		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: I/O BUS RECEIVER W107 CKT.

SIZE	CODE	NUMBER	REV.
B	CS	W107-0-1	A

PRINTED CIRCUIT REV. B

DEC FORM NO. DRB 102

PINK

DIST. 324 434 435 359

SIZE	CODE	NUMBER	REV.
B	CS	W122-0-1	D

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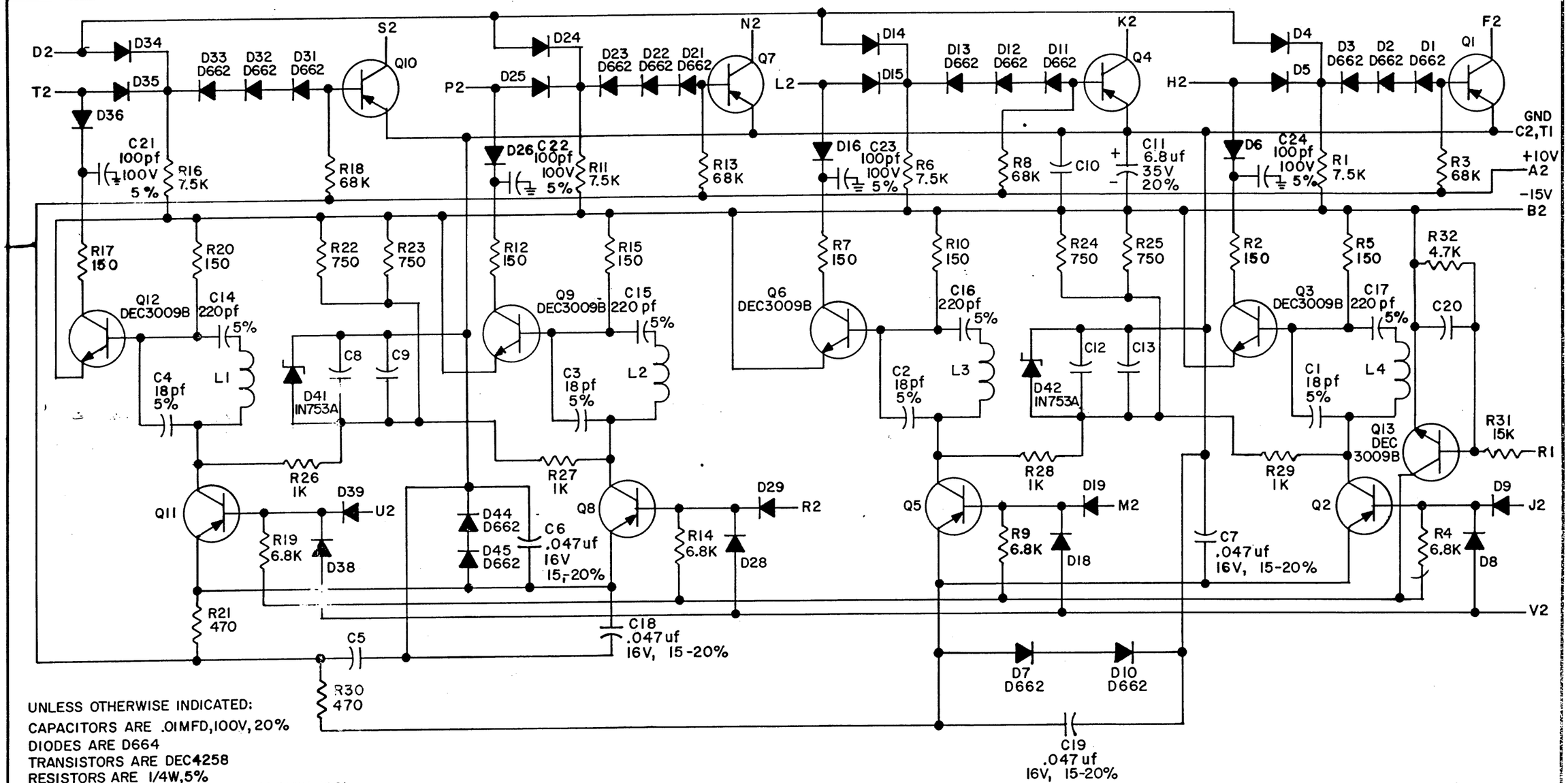

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01MFD,100V,20%
DIODES ARE D664
TRANSISTORS ARE DEC4258
RESISTORS ARE 1/4W,5%
L1 THRU L4 ARE 2.2μh CHOKES 1/4W,10%

REVISIONS	REV.	CHG NO.	CHK
	A	00001	
	B	00002	
	C	00003	
	D	00004	

DRN.		DATE 10/15/69
CHK'D		DATE 12/11/69
ENG.		DATE 5-14-70
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		
D662	IN645		
DEC3009B	2N3009B		
DEC4258	NONE		
DECIN753A	SAME		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
BUS TRANSCEIVER WI22

SIZE	CODE	NUMBER	REV.
B	CS	W122-0-1	D

PRINTED CIRCUIT REV. F

DEC FORM NO.
DRB 102

Nat. 3,474,552, 359

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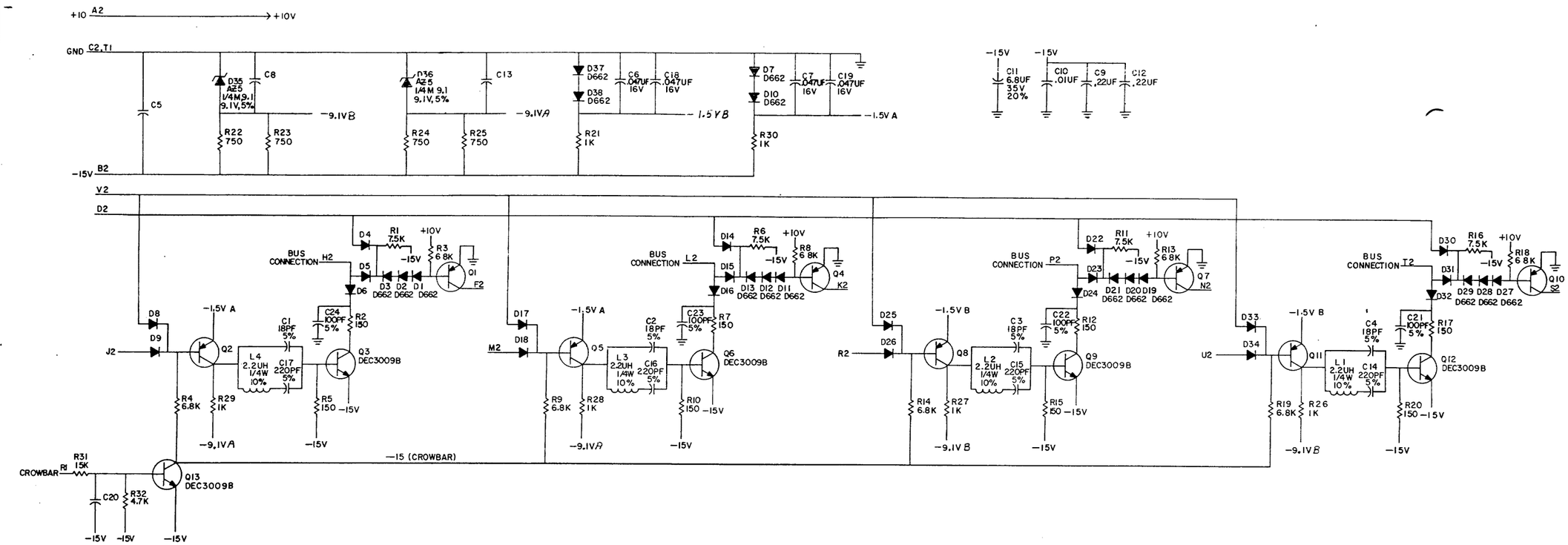
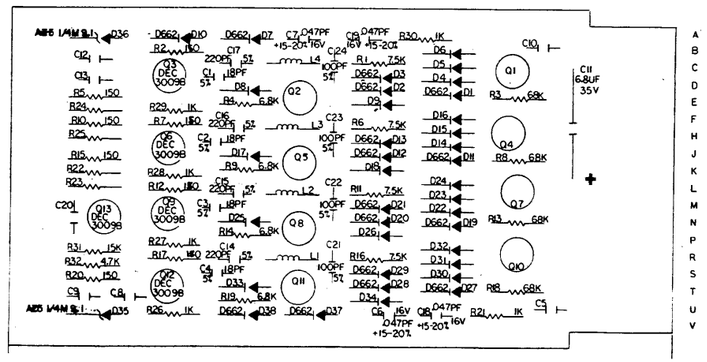


UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01UF, 100V, 20%
DIODES ARE D664
TRANSISTORS ARE DEC4258
RESISTORS ARE 1/4W, 5%



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
28	9008337-03	HANDLE, FLIP CHIP - WHITE	1
27	9006732	EYELET,	2
26	L609756	COIL, CHOKE, 2.2Uh, ¼W, 10%	4
25	L505321	TRANSISTOR 2n4258	8
24	L503100	TRANSISTOR DEC 3009B	5
23	L301423	RES. 6.8K ¼W 5%	4
22	L301422	RES. 7.5K ¼W 5%	4
21	L301401	RES. 750 ¼W 5%	4
20	L301327	RES. 68K ¼W 5%	4
~~19~~	~~L301322~~	~~RES. 1MΩ ¼W 5%~~	~~4~~
18	L300496	RES. 15K ¼W 5%	1
17	L300447	RES. 4.7K ¼W 5%	1
16	L300365	RES. 1K ¼W 5%	6
15	L300250	RES. 150 ¼W 5%	8
14	1010274	CAP. .22UF, 50V, CERAMIC	2
13	1109990	DIODE AZ5 1/4M, 9.1	2
12	1100114	DIODE D664	20
11	1100113	DIODE D662	16
10	1009678	CAP. .047PF 16V 15-20% DISC	4
9	1002608	CAP. 18PF 100V 5% D.M.	4
8	1001610	CAP. .01UF 100V 20% DISC	5
7	1000067	CAP. 6.8UF 35V 20% TANT	1
6	1000021	CAP. 220PF 100V 5% D.M.	4
5	1000016	CAP. 100PF 100V 5% D.M.	4
4	3009520	ETCHED CIRCUIT BOARD	1
3	B-MH-W132-0-6	MODULE ECO HISTORY	
2	C-AH-W132-0-5	ASSY/DRILLING HOLE LAYOUT	
1	K-CO-W132-0-4	X-Y COORDINATE HOLE LOCATION	

REVISIONS			
CHR	CHG NO	REV	
1	10000	C	
2	10002	D	

SULLIVAN

DRWN S. Cooper DATE 11/20/71
CHK'D DATE 12-28-71
ENG DATE 1/11/71
PROJ DATE 2/14/72

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D664	1N3606	DEC3009B	2N5646
D662	1N645	DEC4258	2N4258

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: BUS TRANSCEIVER

SIZE D | CODE CS | NUMBER W132-0-1 | REV D | PRINTED CIRCUIT REV. D

DEC FORM NO. DRB 116

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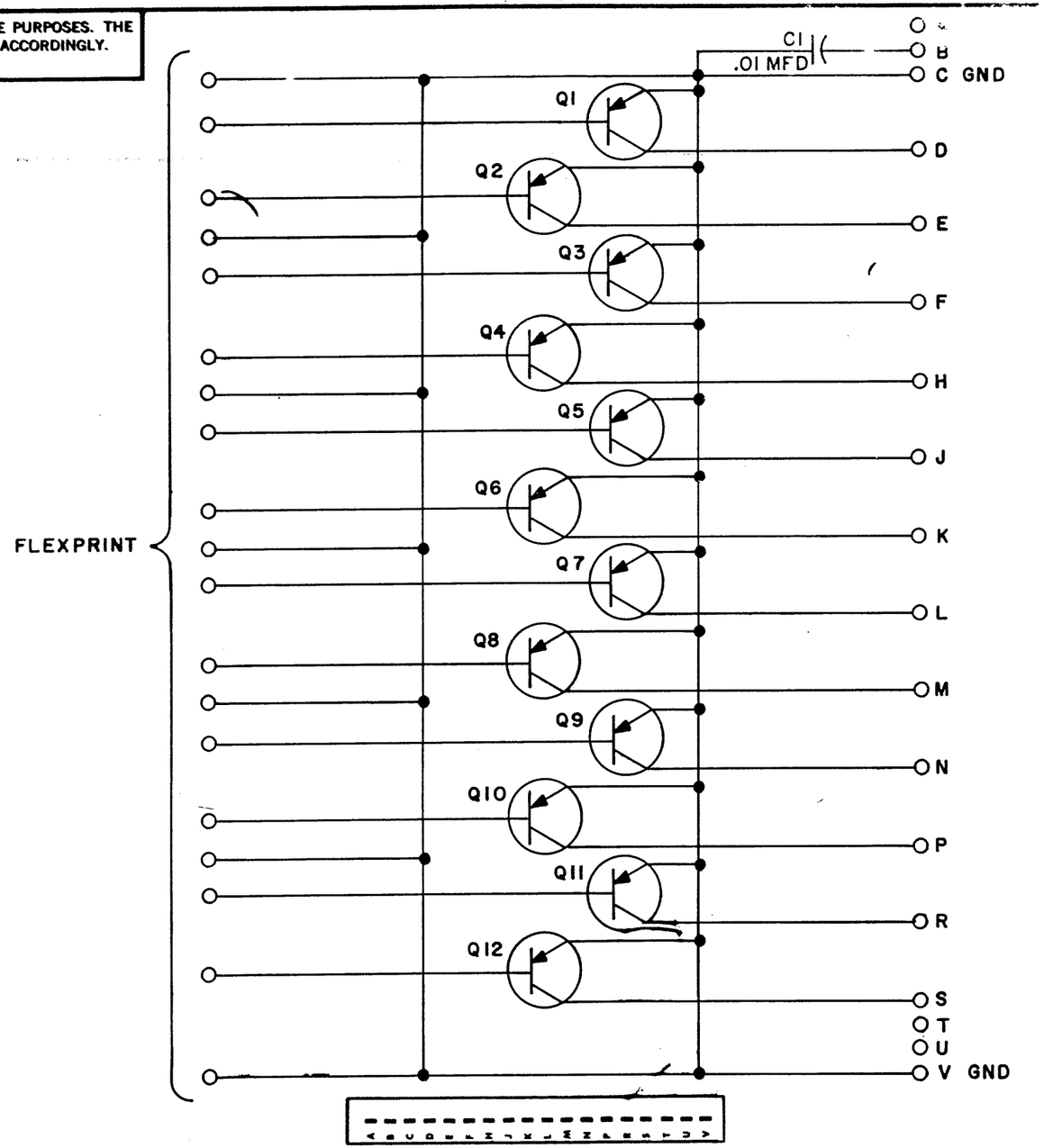

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC6534D

PARTS LIST A-PL-W250-0-0

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534D	MPS6534		

REVISIONS			
CHK	CHG NO.	REV.	
	5935	A	
	6989	B	
	7036		

DRN. M. Waller	DATE 11-29-66	
CHK'D R. Silverman	DATE 11/30/66	
ENG. Allan Kent	DATE 30 Nov 66	
PROD.	DATE	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: INDICATOR CABLE CONNECTOR W250

SIZE	CODE	NUMBER	REV.
B	CS	W250-0-1	B

PRINTED CIRCUIT REV. A B

DEC FORM NO. DRB 102

PINK DIST. 324 434 435 359

SIZE	CODE	NUMBER	REV.
B	CS	W300-0-1	F

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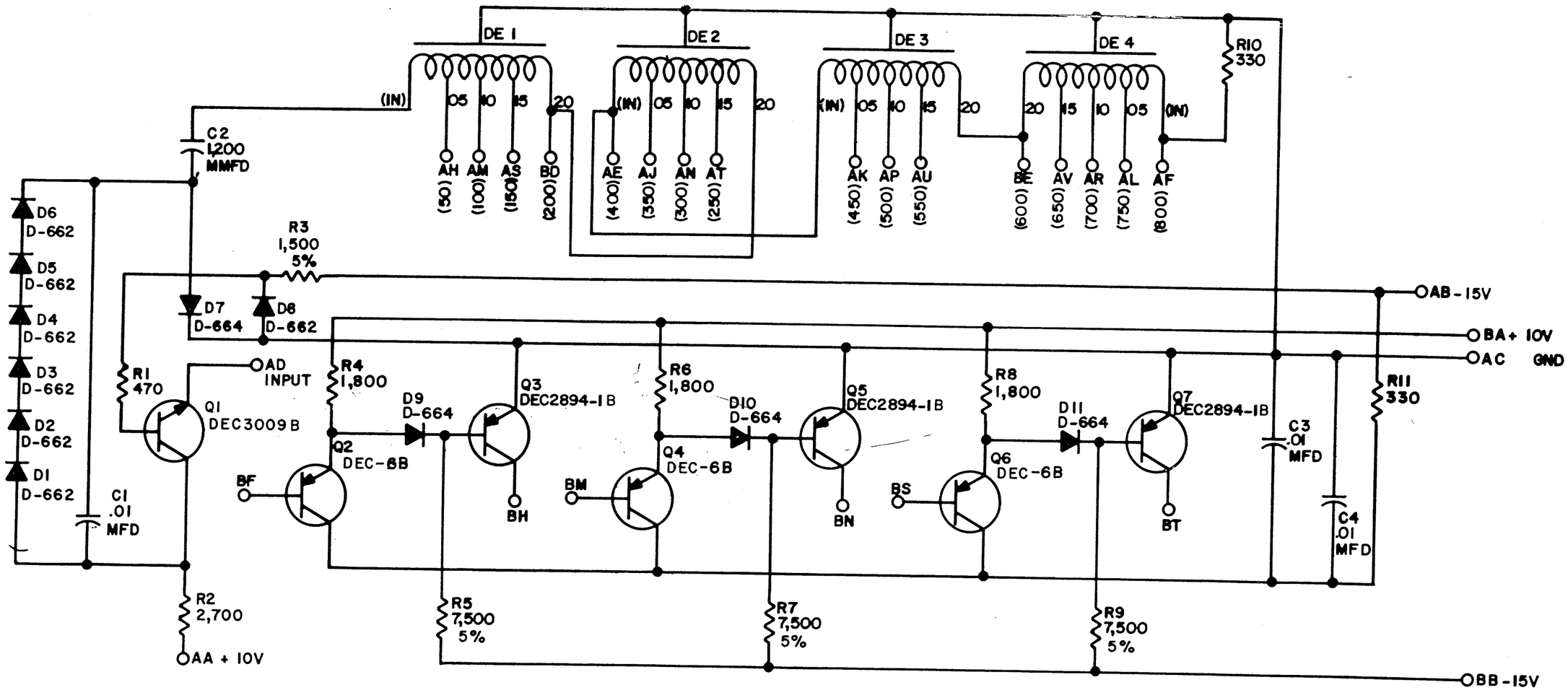

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
DE1 - DE4 ARE DEC NO. 330-25E-6

PARTS LIST A-PL-W300-0-0

REVISIONS	REV.	C,D	E	F
	CHG NO.	5440	5653	7108
	CHK			

DRN.	H. PORTER	DATE	12-3-64
CHK'D	N. PERRYMAN	DATE	12-4-64
ENG.	D. O'CONNOR	DATE	12-4-64
PROD.	2	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC-6B	NONE		
DEC2894-1B	NONE		
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DELAY LINE W30C

SIZE	CODE	NUMBER	REV.
B	CS	W300-0-1	F

PRINTED CIRCUIT REV. C

DEC FORM NO.
DRB 102

PINK

DIST. 324 434 435

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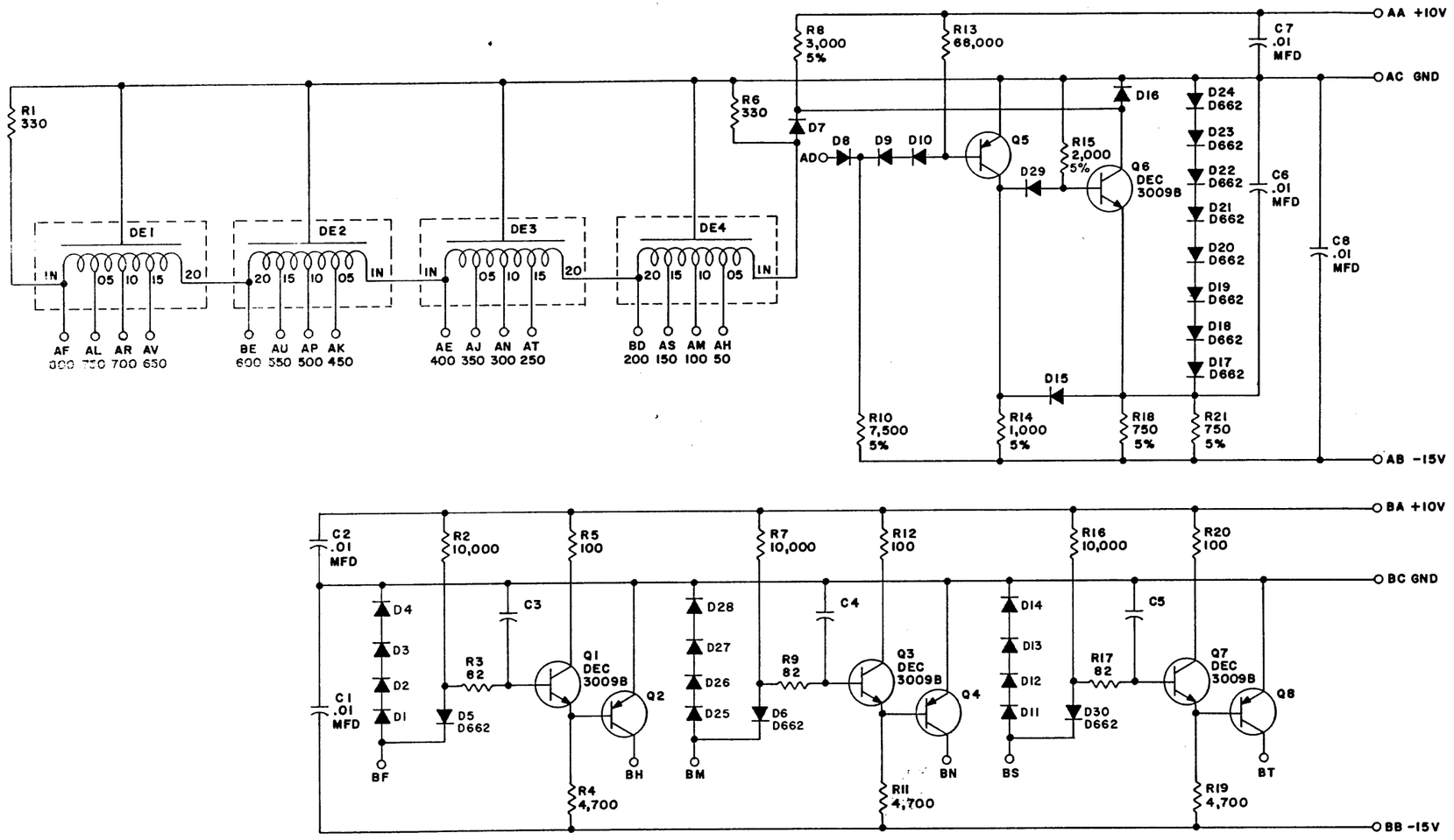

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 10%
DIODES ARE D664
TRANSISTORS ARE DEC3639B
DE1-DE4 ARE DEC #330-25E-6
CAPACITORS ARE 68MMFD

PARTS LIST IS A-PL-W301-0-0

REVISIONS			
CHK	CHG NO.	REV.	
MJH	7137	B	

DRN. M. Waller	DATE 1-5-67	
CHK'D T. Silva	DATE 1-1-1	
ENG. J. Sutton	DATE 1-	
PROD. 1	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: DELAY LINE W301

SIZE	CODE	NUMBER	REV.
C	CS	W301-0-1	B

PRINTED CIRCUIT REV. C

DEC FORM NO. DRC 102

DISP. 324 434 435 PINK

SIZE	CODE	NUMBER	REV.
C	CS	W301-0-1	B

SIZE	CODE	NUMBER	REV.
B	CS	W500-0-1	B

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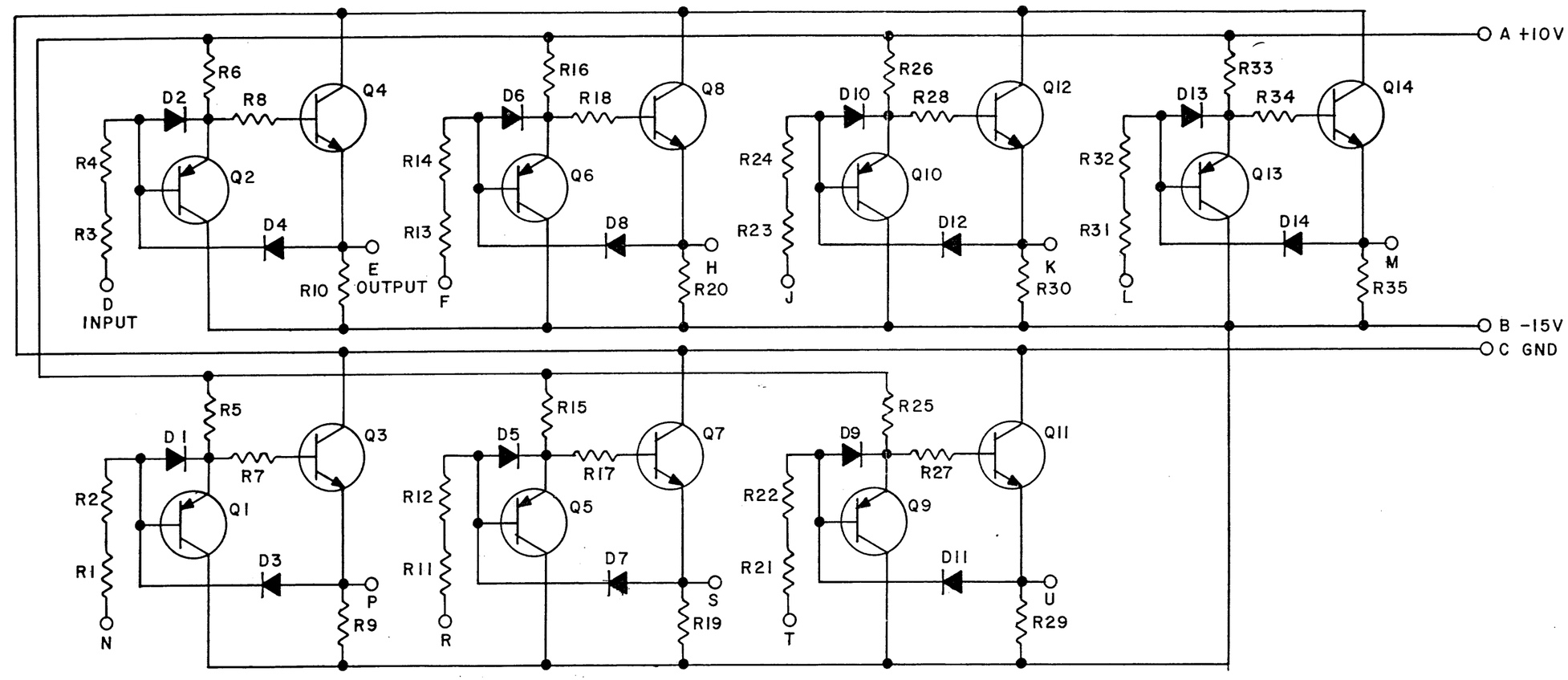

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-W500-0-0
D1 - D14	DIODE D664	1100114
R1-R4,R11-R14,R21-R24,R31,R32	RES. 1.5K 1/4W 5% CC	1300391
R5, R6,R15,R16, R25, R26,R33	RES. 10K 1/4W 10% CC	1300481
R7, R8,R17,R18, R27, R28,R34	RES. 100 1/4W 10% CC	1300231
R9,R10,R19,R20,R29,R30, R35	RES. 3K 1/4W 5% CC	1300432
Q1,Q2,Q5,Q6,Q9,Q10,Q13	TRANSISTOR DEC999-S	1501836
Q3,Q4,Q7,Q8,Q11,Q12,Q14	TRANSISTOR DEC3009B-S	1503100

PARTS LIST

REVISIONS			
CHK	CHG NO.	REV.	
DAW	4638	1	
	REV. & REDR. 7166		B

DRN. I. HAHN	DATE 4-27-65	
CHK'D R.SILVERMAN	DATE 4-29-65	
ENG. R. DOANE	DATE 4-27-65	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		
DEC999	MM999		
DEC3009B	2N3009		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE HIGH IMPEDANCE FOLLOWER W5[illegible]0

SIZE	CODE	NUMBER	REV.
B	CS	W500-0-1	B

PRINTED CIRCUIT REV. A

324|434|435

DEC FORM NO.
PRR 102

SIZE	CODE	NUMBER	REV.
B	CS	W501-0-1	F

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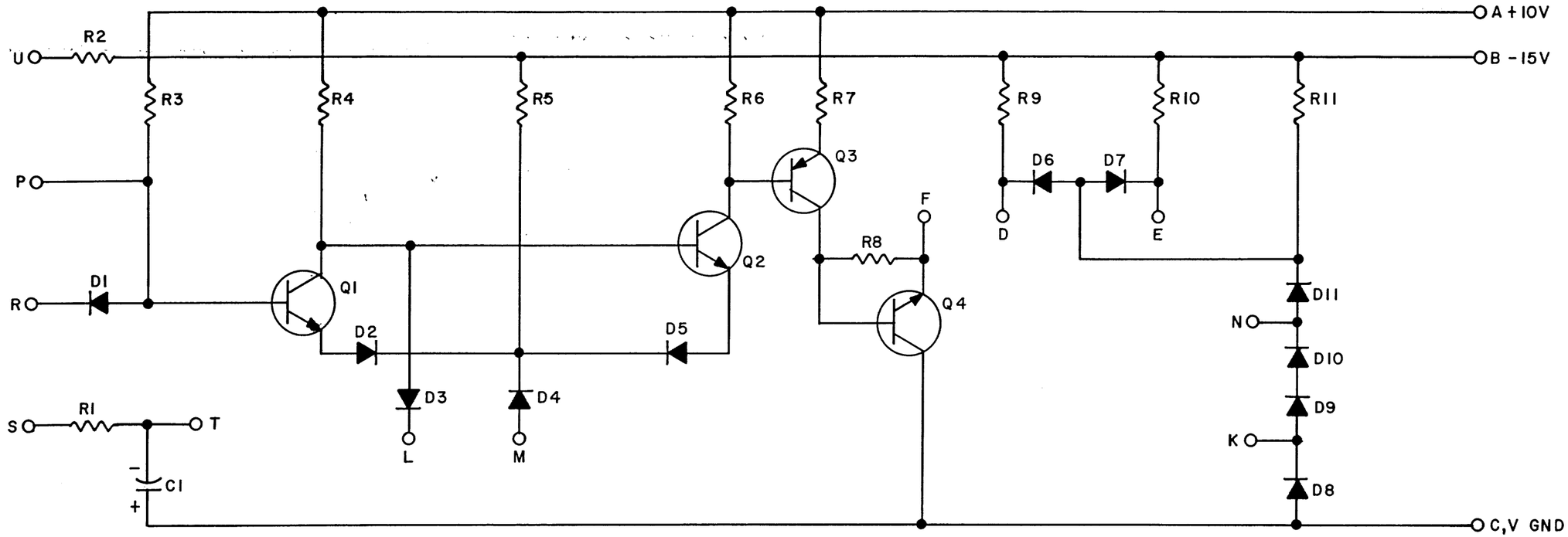

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-W501-0-0
C1	CAP. 6.8 MFD 35V 20% S.TANT	1000067
D1 – D7	DIODE D664	1100114
D8 – D11	DIODE D662	1100113
R1	RES. 330 1/4W 10% CC	1300293
R2, R5	RES. 4.7K 1/4W 10% CC	1300448
R3, R4, R9	RES. 7.5K 1/4W 5% CC	1301422
R6, R7, R8, R10, R11	RES. 1.5K 1/4W 5% CC	1300391
Q3	TRANSISTOR DEC999	1501836
Q1, Q2, Q4	TRANSISTOR DEC3009B	1503100

PARTS LIST

REVISIONS			
CHK	CHG NO.	REV.	
DAW	5216	4	
REV.	8 REDR.		F
W.M.	7167		

DRN. H.W. PORTER	DATE 9-23-64	
CHK'D N. PERRYMAN	DATE 9-29-64	
ENG. P. SULLIVAN	DATE 9-29-64	
PROD. D Chase	DATE 9-4-64	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC999	MM999		
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
SCHMITT TRIGGER W501

SIZE	CODE	NUMBER	REV.
B	CS	W501-0-1	F

PRINTED CIRCUIT REV. F

DEC FORM NO.
DRB 102

DISTRIBUTION 324 434 435

SIZE	CODE	NUMBER	REV.
B	CS	W504-0-1	

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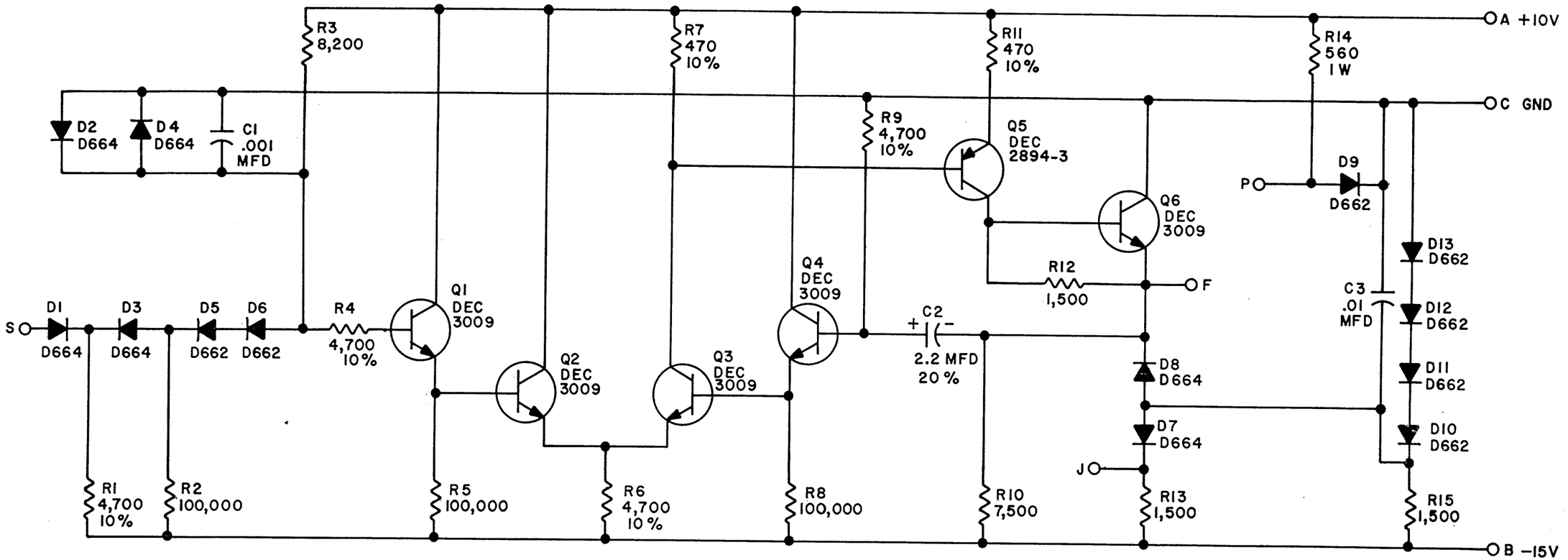

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%

REVISIONS	REV.	CHG NO.	CHK

DRN.		DATE 5/11/66
CHK'D	R. Selvaraman	DATE 5/11/66
ENG.	J. White	DATE 5/11/66
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC 2894-3	NONE		
DEC 3009	2N3009		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE INITIAL TRANSIENT DETECTOR W504

SIZE	CODE	NUMBER	REV.
B	CS	W504-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

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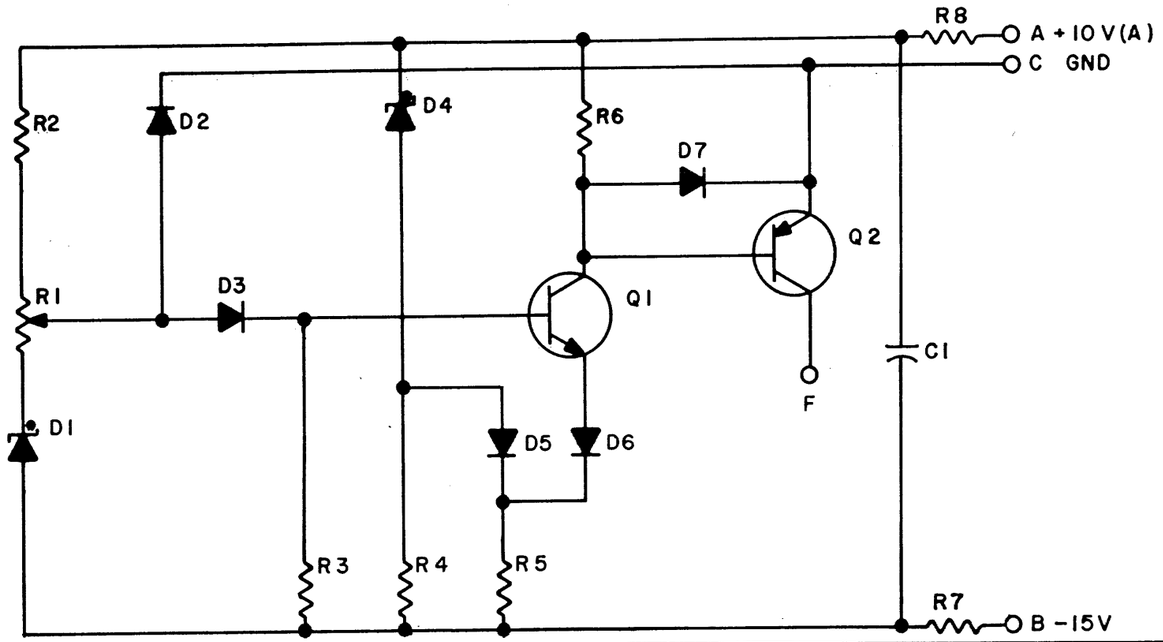

Q2	TRANSISTOR DEC2894-3B-S	1503099
Q1	TRANSISTOR DEC3009B	1503100
R7, R8	RES. 100 1/4W 5% CC	1300229
R6	RES. 3K 1/4W 5% CC	1300432
R5	RES. 1K 1/4W 5% CC	1300365
R4	RES. 6.8K 1/4W 10% CC	1300463
R3	RES. 68K 1/4W 10% CC	1300526
R2	RES. 3.9K 1/4W 5% CC	1300444
R1	RES. 5K PRINTED CKT. POT	1305451
D4	DIODE IN964A	1100127
D1	DIODE 1/4M 6.8 AZ5	1100102
D2, D3, D5, D6, D7	DIODE D664	1100114
C1	CAP. 0.1 MFD 50V 20% D.CER.	1000030
	PARTS LIST	A-PL-W505-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

* 13V 10%

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		
IN964A *	SAME		
1/4M 6.8AZ5	IN4099		
DEC2894-3B	SAME		
DEC3009B	2N3009		

REVISIONS	REV.	CHG NO.	CHK
REV. & REDR.	A	6571	
	B	6993	

DRN. I. HAHN	DATE 3-1-65	
CHK'D N. PERRYMAN	DATE 3-3-65	
ENG. N. BOISSE	DATE 3-3-65	
PROD.	DATE	

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: LOW VOLTAGE DETECTOR W505

SIZE	CODE	NUMBER	REV.
B	CS	W505-0-1	B

PRINTED CIRCUIT REV. B

DIST. 324 434 435

PINK

DEC FORM NO. DRB 102

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W507-0-1 A

AP2 −6.2"A"
AS2 −6.2"B"
AM2 +10V
+5V AK2
AD2
AT2
+10V R15 2.61K 1/8W 1% MF
+5V, AN2
−15V, AB2
+10V, AA2
GND, AC2, AT1
BV2
−15V AH2
−15V AD1
+5V AJ1
AU1
BV1

D9 IN753A
D10 IN753A
D1 IN823 6.2V 5%
D3 IN823 6.2V 5%
D2 5.1 AZ-1 1/4 M
D4
D5
D6
D7
D8 D664
D11
D12
D13
D14
D15 D664
D16 D664
D17
D18
D19 D670
D20 D670
Q1 2N4258
Q2 2N4258

E1 E2 E3 E4 E5 E6 E7 E8 E9

R1 562 1/8W 1% MF
R2 3.16K 1/8W 1% MF
R3 562 1/8W 1% MF
R4 3.16K 1/8W 1% MF
R5 196 1/8W 1% MF
R6 196 1/8W 1% MF
R7 196 1/8W 1% MF
R8 196 1/8W 1% MF
R9 100
R10 10K
R11 100
R12 10K
R13 10K
R14 10K
R16 470
R17 500 1/2W 10%
R18 1K 1/8W 1% MF
R19 150
R20 1K
R21 4K 1/8W .1% MF
R22 500 1/2W 10%
R23 2K 1/8W .1% MF
R24 1.5K
R25 100
R26 100
R27 15K
R28 27K
R29 1K
R30 5.6K
R31 120
R32 330
R33 4.7K
R34 15K
R35 68K
R36 300 1W
R37 300 1W
R38 1.5K
R39 1.5K
R40 1.5K
R41 1.5K
R42 1K

C1
C2
C3
C4
C5
C6
C7
C8 68uf 15V 10%
C9
C10 220uf 8V 10%

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
CAPACITORS ARE .01uf, 100V, 20%
DIODES ARE D662
E2-E5, E7, E8 ARE UA710
E1, E6 ARE UA741C
E9 IS DEC74H30

REVISIONS		
CHR. CHG NO.	00001	A

DRN Bruce Howard DATE 5/5/70
CHK'D DATE
ENG S. Mann DATE 5/15/70
PROD D. Wolf DATE 6/24/70

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606	D670	IN3653
D662	IN645	IN823	SAME
2N4298	SAME	IN753A	SAME
AZ1 1/4M 5.1	SAME		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE LOW VOLTAGE DETECTOR W507
SIZE D | CODE CS | NUMBER W507-0-1 | REV. A
PRINTED CIRCUIT REV. B

DEC FORM NO. 045 118

MS-711 1-2

5

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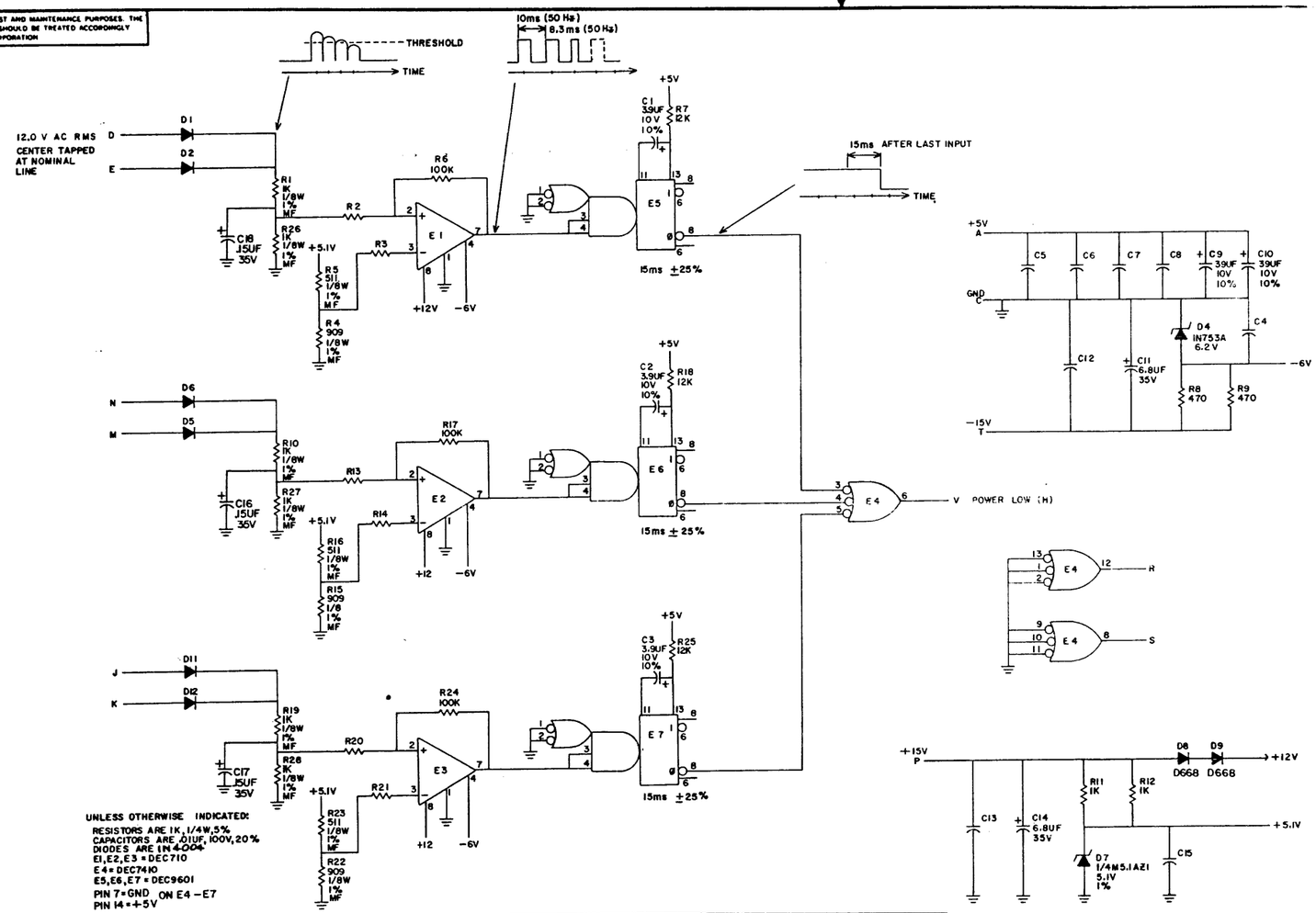
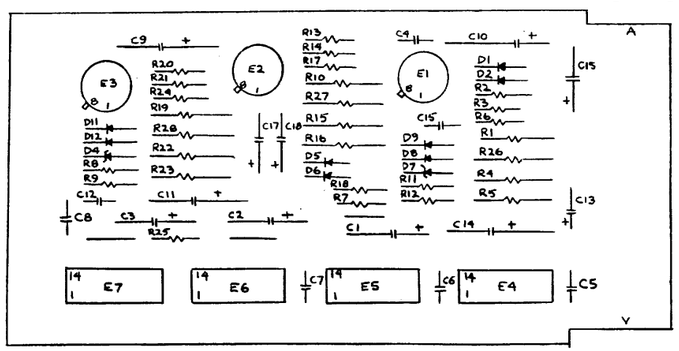


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1K, 1/4W, 5%
CAPACITORS ARE .01UF, 100V, 20%
DIODES ARE IN4004
E1, E2, E3 = DEC710
E4 = DEC7410
E5, E6, E7 = DEC9601
PIN 7 = GND ON E4 - E7
PIN 14 = +5V



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
29	9009185	INSULATED JUMPER	3
28	1303114	RES. 1K 1/6W 1%	6
27	1302411	RES. 511, 1/8W, 1%	3
26	1302685	RES. 909, 1/8W, 1%	3
25	1300488	RES. 12K 1/4W 5%	3
24	1002180	CAP. .15UF 35V 20%	3
23	1102161	DIODE D668	2
22	9008337-03	HANDLE, FLIP CHIP - WHITE	1
21	9006732	EYELET #GS6-7	2
20	1909373	I.C. DEC 9601	3
19	1905620	I.C. DEC 710	3
18	1905576	I.C. DEC 7410	1
[illegible]			
[illegible]			
15	1302466	RES. 100K 1/4W 5%	3
[illegible]			
13	1300365	RES. 1K 1/4W 5%	8
12	1300316	RES. 470 1/4W 5%	2
11	1105871	DIODE 1/4W 5.1 AZ1 5.1V 1%	1
10	1102421	DIODE 1N753A 6.2V	1
9	1105796	DIODE 1N4004	6
8	1001610	CAP. .01UF 100V 20% DISC	8
7	1000076	CAP. 39UF 10V 10% S.TANT	2
6	1000067	CAP. 6.8UF 35V 20% S.TANT	2
5	1000064	CAP. 3.9UF 10V 10% S.TANT	3
4	5009297	ETCHED CIRCUIT BOARD	1
3	B-MH-W509-0-6	MODULE ECO HISTORY	
2	C-AH-W509-0-5	ASSY/DRILLING HOLE LAYOUT	
1	F-CO-W509-0-4	X-Y COORDINATE HOLE LOCATION	

* 2(TWO) 3406 IN SERIES

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
IN4004	SAME	IN753 6.2V	SAME
1/4W5.1AZ1	NONE		
D668 *			

REVISIONS				
SYM	DOCUMENT NO.	REV	BY	DATE
A	9000021	E	J. DREW	11/17/71
B	9000031	F	J. DREW	12/14/71
C	9000041	H	J. DREW	1/4/72
D	9000051	H	J. DREW	1/7/72

E. Cooke 11/4/71 DATE
J. F. Drew 11-17-71 DATE
J. F. Drew 1-7-72 DATE

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE 3 PHASE LOW AC VOLTAGE DETECTOR W509
SIZE D | CODE CS | NUMBER W509-0-1 | REV H
PRINTED CIRCUIT REV. F

DEC FORM NO. 990 116

SIZE	CODE	NUMBER	REV.
B	CS	W510-0-1	B

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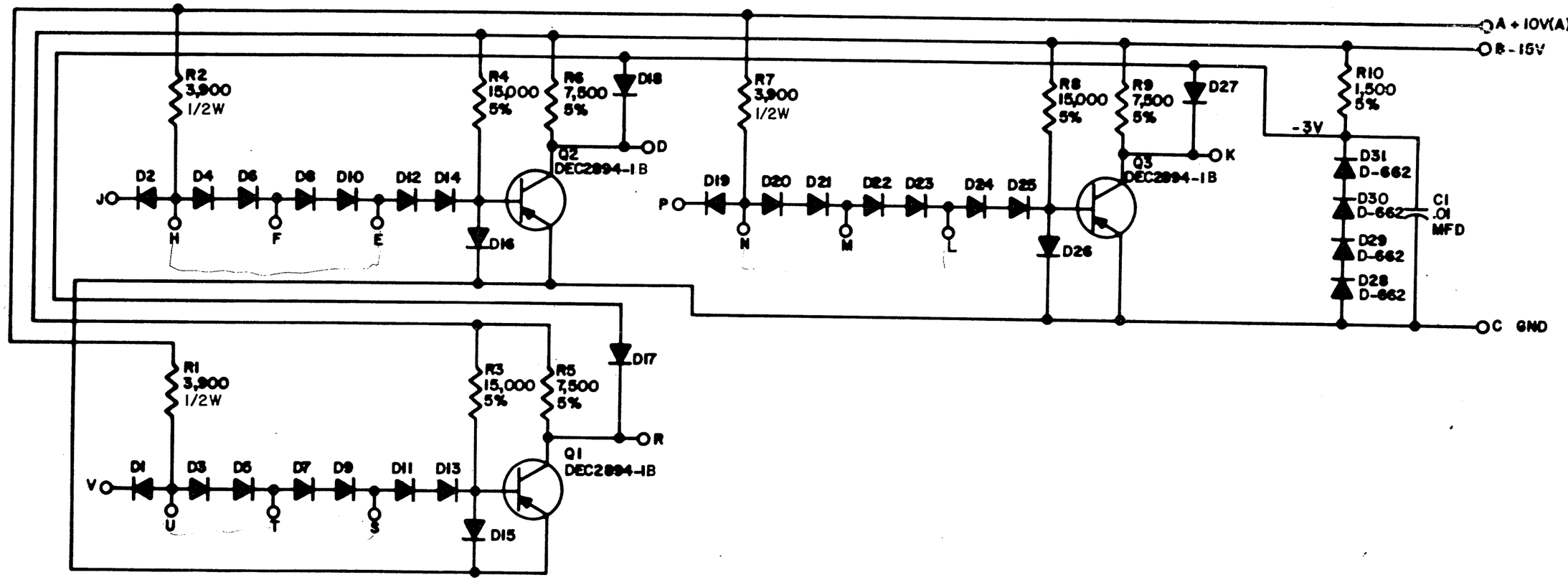

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
DIODES ARE D-664

REVISIONS	CHK	CHG NO.	REV.
REV. A REDR.	Lind	5731	A
	Lind	6463	B

DRN. H.W. PORTER	DATE 10-6-64	
CHK'D N. PERRYMAN	DATE 10-8-64	
ENG. P. SULLIVAN	DATE 10-8-64	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC2894-1B	NONE		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
POSITIVE LEVEL CONVERTER W510

SIZE	CODE	NUMBER	REV.
B	CS	W510-0-1	B

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

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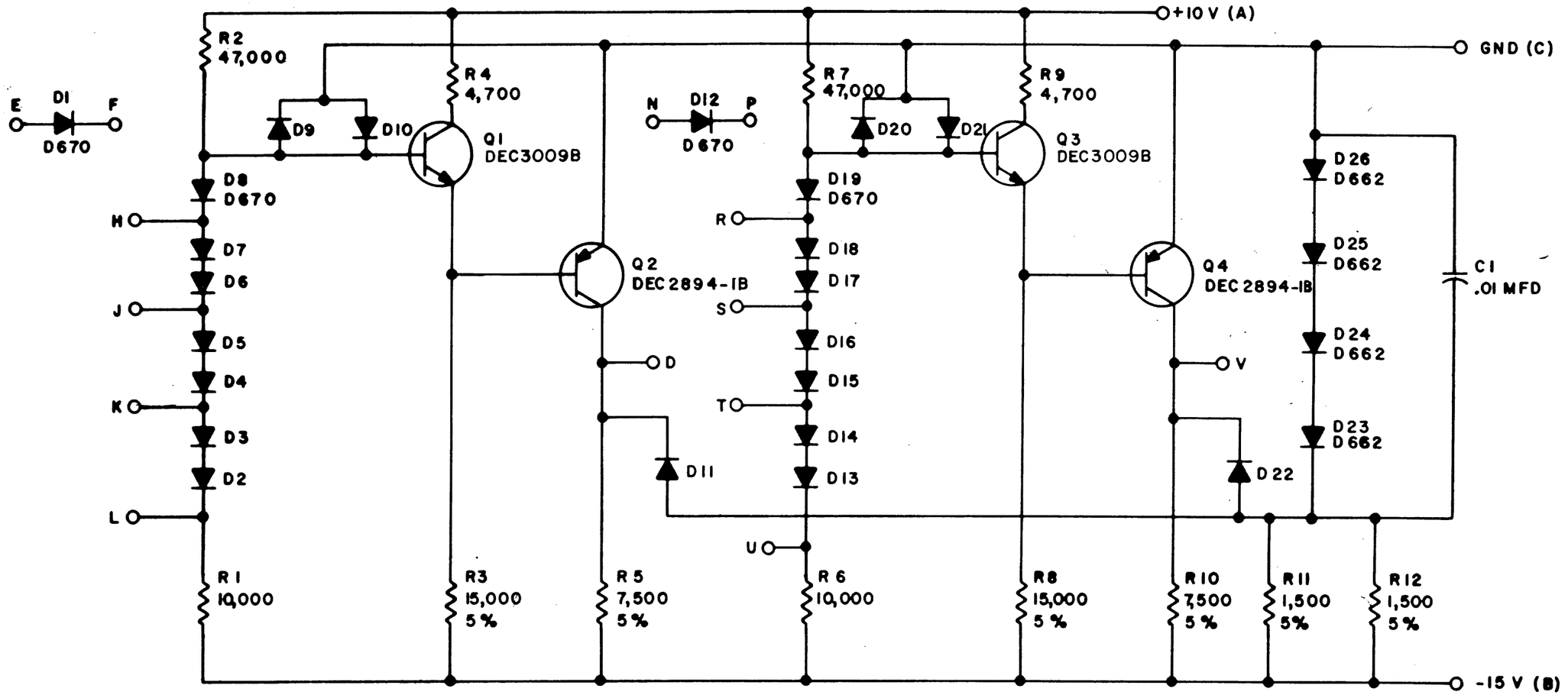

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W 10%
DIODES ARE D-664

PARTS LIST IS A-PL-W511-0-0

REVISIONS	CHK	CHG NO.	REV.
	REV. A REDR.	5744	A
		7039	B

DRN. I. HAHN	DATE 2-10-65	
CHK'D N. PERRYMAN	DATE 2-16-65	
ENG. D. O'CONNOR	DATE 2-16-65	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D-662	IN645		
D-664	IN3606		
D-670	IN3653		
DEC3009B	2N3009		
DEC2894-IB	NONE		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: NEGATIVE LEVEL CONVERTER W511

SIZE	CODE	NUMBER	REV.
B	CS	W511-0-1	B

PRINTED CIRCUIT REV. A

PINK

DIST. 324 434 435[2]

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	W513-0-1	E

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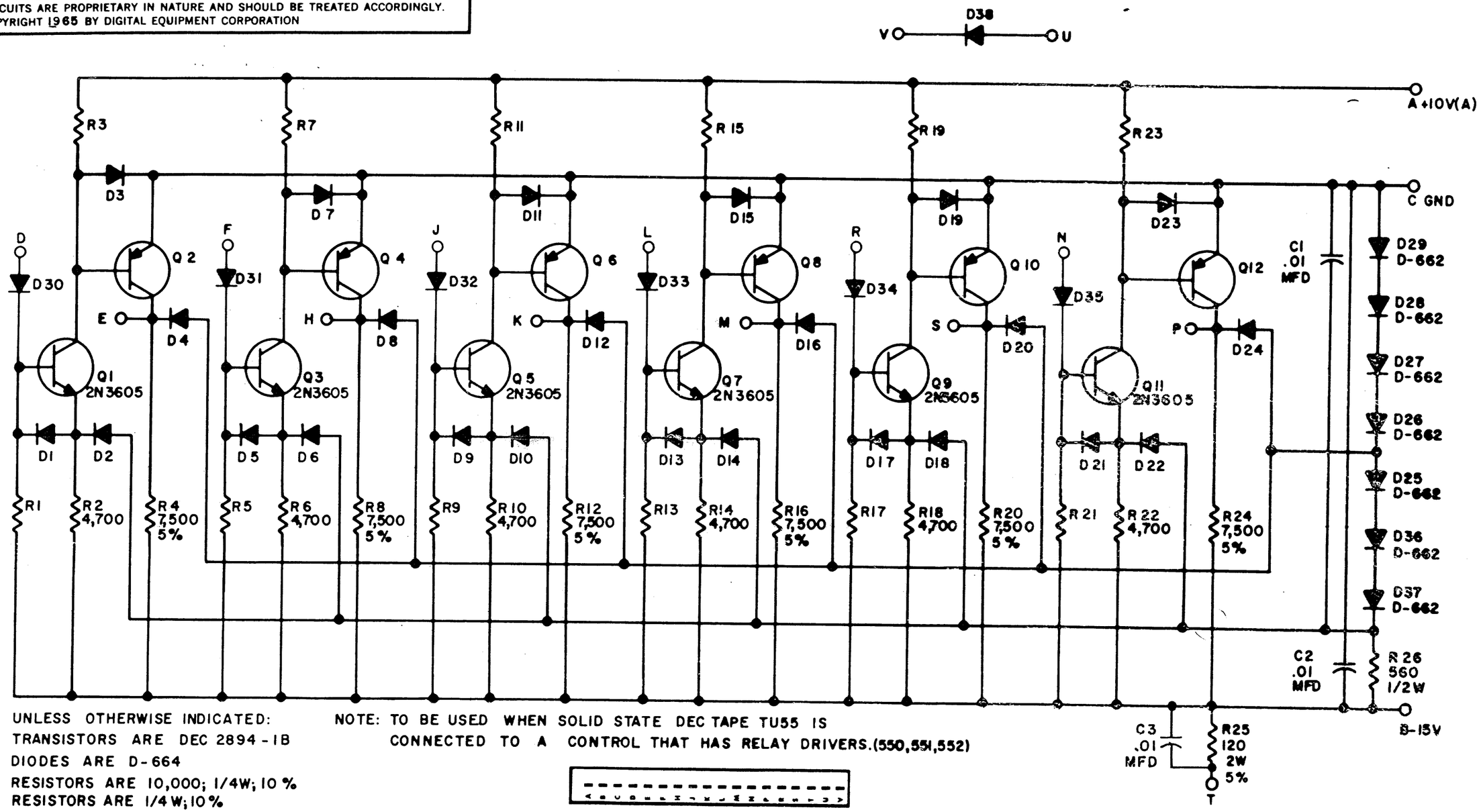

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 2894-1B
DIODES ARE D-664
RESISTORS ARE 10,000; 1/4W; 10 %
RESISTORS ARE 1/4 W; 10 %

NOTE: TO BE USED WHEN SOLID STATE DEC TAPE TU55 IS CONNECTED TO A CONTROL THAT HAS RELAY DRIVERS.(550,551,552)

REVISIONS		
CHK	CHG NO.	REV.
DAW	5282	4
REVS REDR	5727	E
	5741	

DRN. I. HAHN	DATE 5-27-65
CHK'D R. SILVERMAN	DATE 6-4-65
ENG. D. WARDIMON	DATE 6-5-65
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC2894-1B	NONE		
2N3605	SAME		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
LEVEL AMPLIFIER W513

SIZE	CODE	NUMBER	REV.
B	CS	W513-0-1	E

PRINTED CIRCUIT REV. F

DEC FORM NO.
DRB 102

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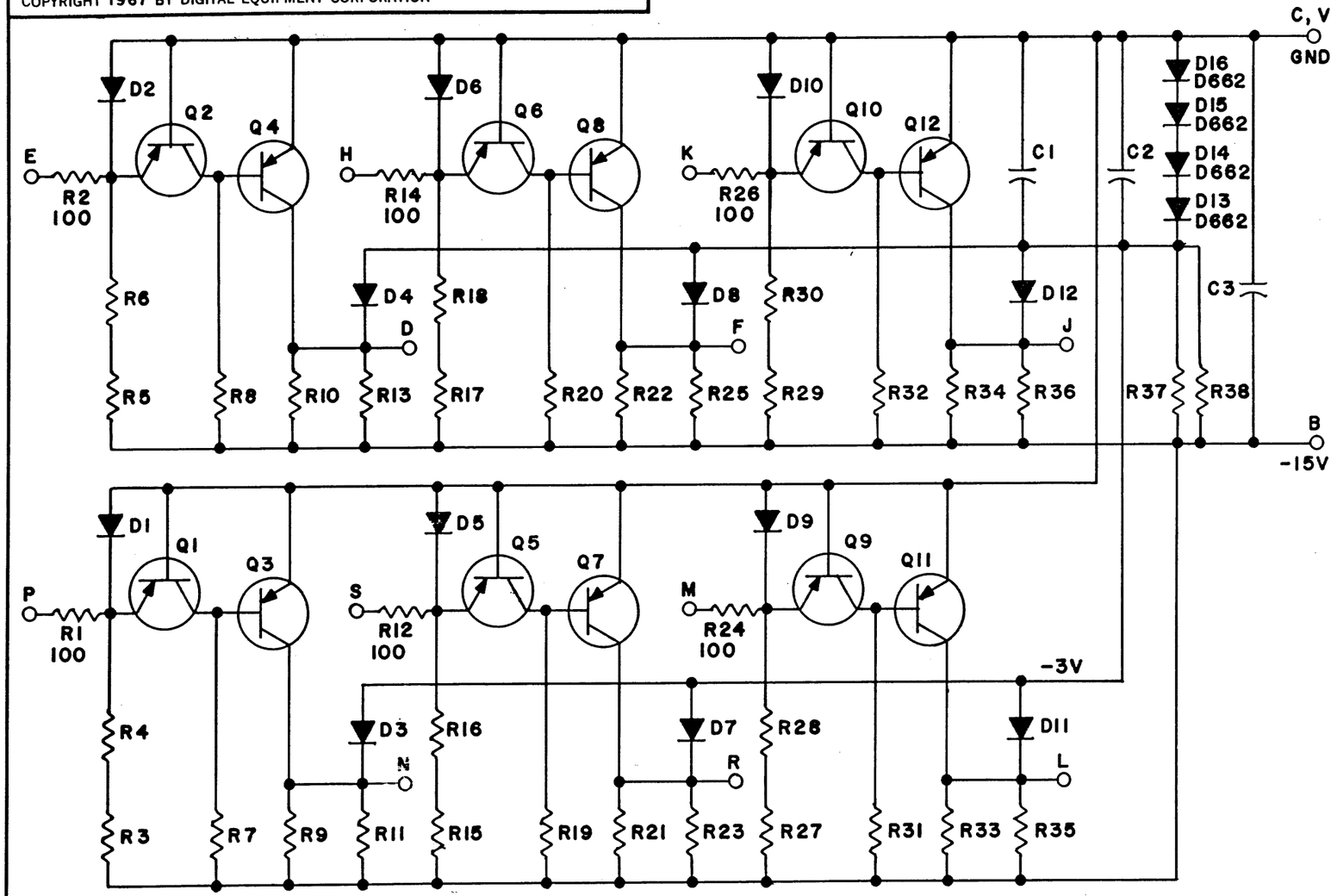

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE 2N4258
RESISTORS ARE 2,700; 1/4W; 5%
DIODES ARE D664
CAPACITORS ARE .01 MFD

REVISIONS	REV.	CHG NO.	CHK

DRN. M. Haller	DATE 11-9-67	
CHK'D R. Schermerhorn	DATE 11/10/67	
ENG. R. Wyman	DATE 11/20/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
2N4258	SAME		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE POSITIVE LEVEL CONVERTER W514

SIZE	CODE	NUMBER	REV.
B	CS	W514-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

SIZE B | CODE CS | NUMBER W514-0-1 | REV.

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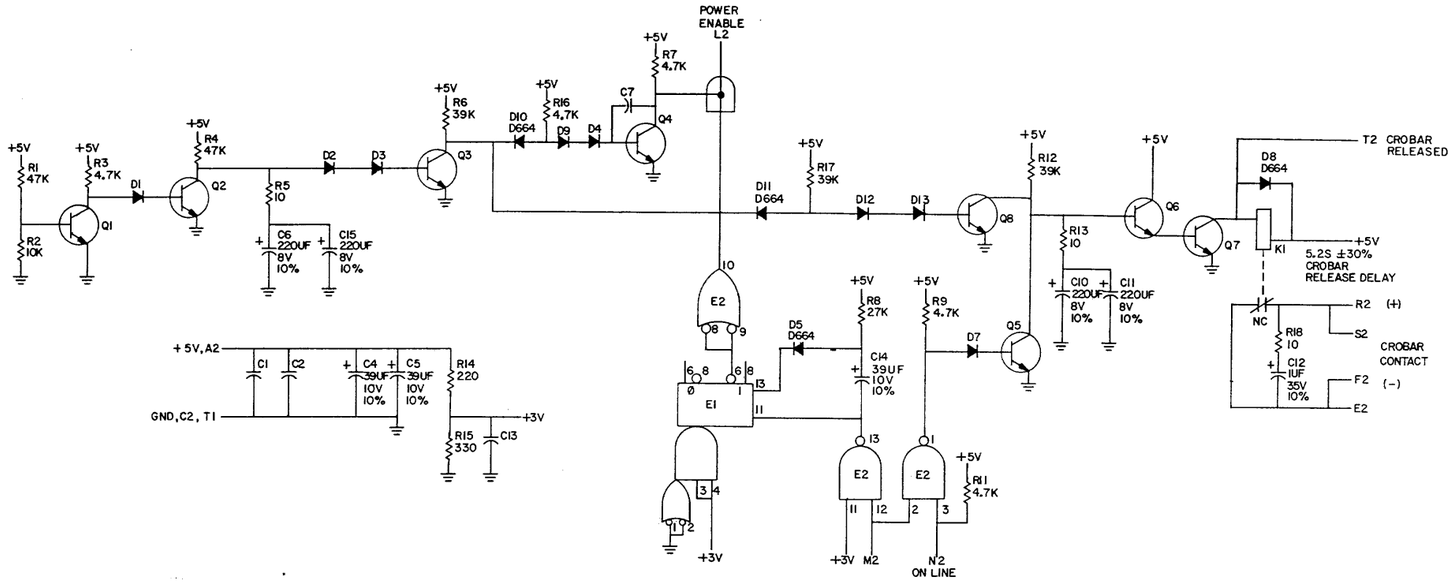
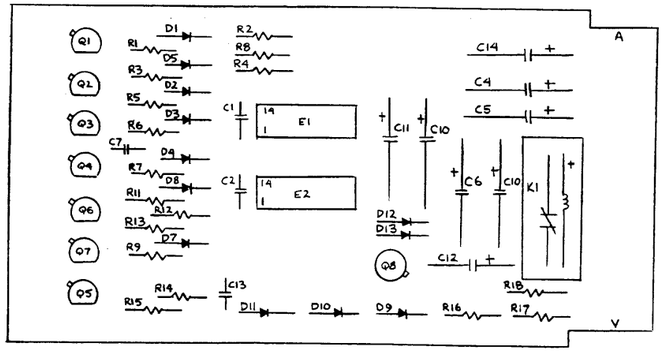


UNLESS OTHERWISE INDICATED:

DIODES = D662
RESISTORS = 1/4W, 5%
CAPACITORS = .01UF, 100V, 20%
TRANSISTORS = DEC3009B
E1 = DEC9601
E2 = DEC7401

PIN 7 = GND ON E1, E2
PIN 14 = +5V



ITEM NO.	DEC PART NO.	DESCRIPTION	QTY.
		PARTS LIST	
3	B-NH-W519-0-6	MODULE ECO HISTORY	
2	C-AH-W519-0-5	ASSY/DRILLING HOLE LAYOUT	
1	~~B-CD-W519-0-4~~	X-Y COORDINATE HOLE LOCATION	
24	9008337-03	HANDLE, FLIP CHIP - WHITE	1
23	9006732	EYELET #394-7	2
22	1909487	I.C. DEC 9601	1
21	1905590	I.C. DEC 7401	1
20	1503100	TRANSISTOR DEC 3009B	8
19	1305346	RES. 27K ¼W 5%	1
18	1302514	RES. 39K ¼W 5%	3
17	1302177	RES. 47K ¼W 5%	2
16	1301317	RES. 10 ¼W 5%	3
15	1300479	RES. 10K ¼W 5%	1
14	1300447	RES. 4.7K ¼W 5%	5
13	1300285	RES. 330 ¼W 5%	1
12	1300271	RES. 220 ¼W 5%	1
11	1210397	RELAY	1
10	1100114	DIODE D664	4
9	1100113	DIODE D662	8
8	1005626	CAP. 220UF 8V	4
7	1001776	CAP. 1UF 35V 10% S. TANT	1
6	1001610	CAP. .01UF 100V 20% DISC	4
5	1000076	CAP. 39UF 10V 10% S. TANT	3
4	5009451	ETCHED CIRCUIT BOARD	1

REVISIONS			
CHG NO.	REV.		
0000	D		

DRN	Nancy Hoole	DATE 2/16/71
CHK'D		DATE 3-16-71
ENG		DATE
MOD		DATE

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009	D664	IN3606
D662	IN645		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE POWER SEQUENCE AND CROBAR

SIZE	CODE	NUMBER	REV.
D	CS	W519-0-1	D

PRINTED CIRCUIT REV. E

NUMBER W519-0-1 REV D SIZE D CODE CS

DEC FORM NO. 2000 116

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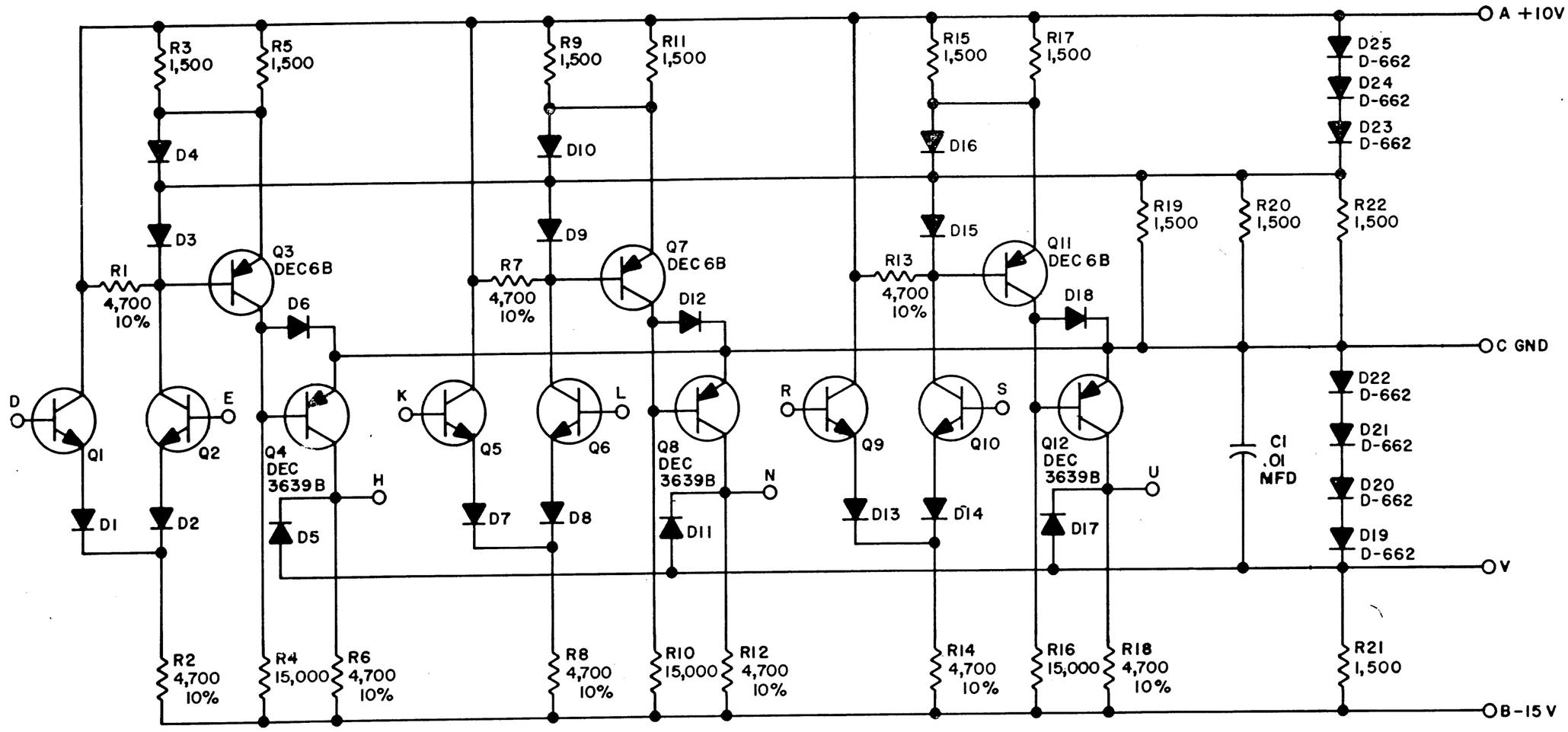

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
DIODES ARE D-664
TRANSISTORS ARE DEC 3009B

PARTS LIST A-PL-W520-0-0

REVISIONS			
REV.		I	C
CHG NO.		5136	7006
CHK	DAW	& REDR.	
REV.		5407	B

DRN.	A. OUELLETTE	DATE 11-24-65
CHK'D	N. PERRYMAN	DATE 11-29-65
ENG.	D. A. WHITE	DATE 11-30-65
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6B	NONE		
DEC3009B	2N3009		
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
COMPARATOR W520

SIZE	CODE	NUMBER	REV.
B	CS	W520-0-1	C

PRINTED CIRCUIT REV. B

DIST. 324 434 435

PINK

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	W532-0-1	D

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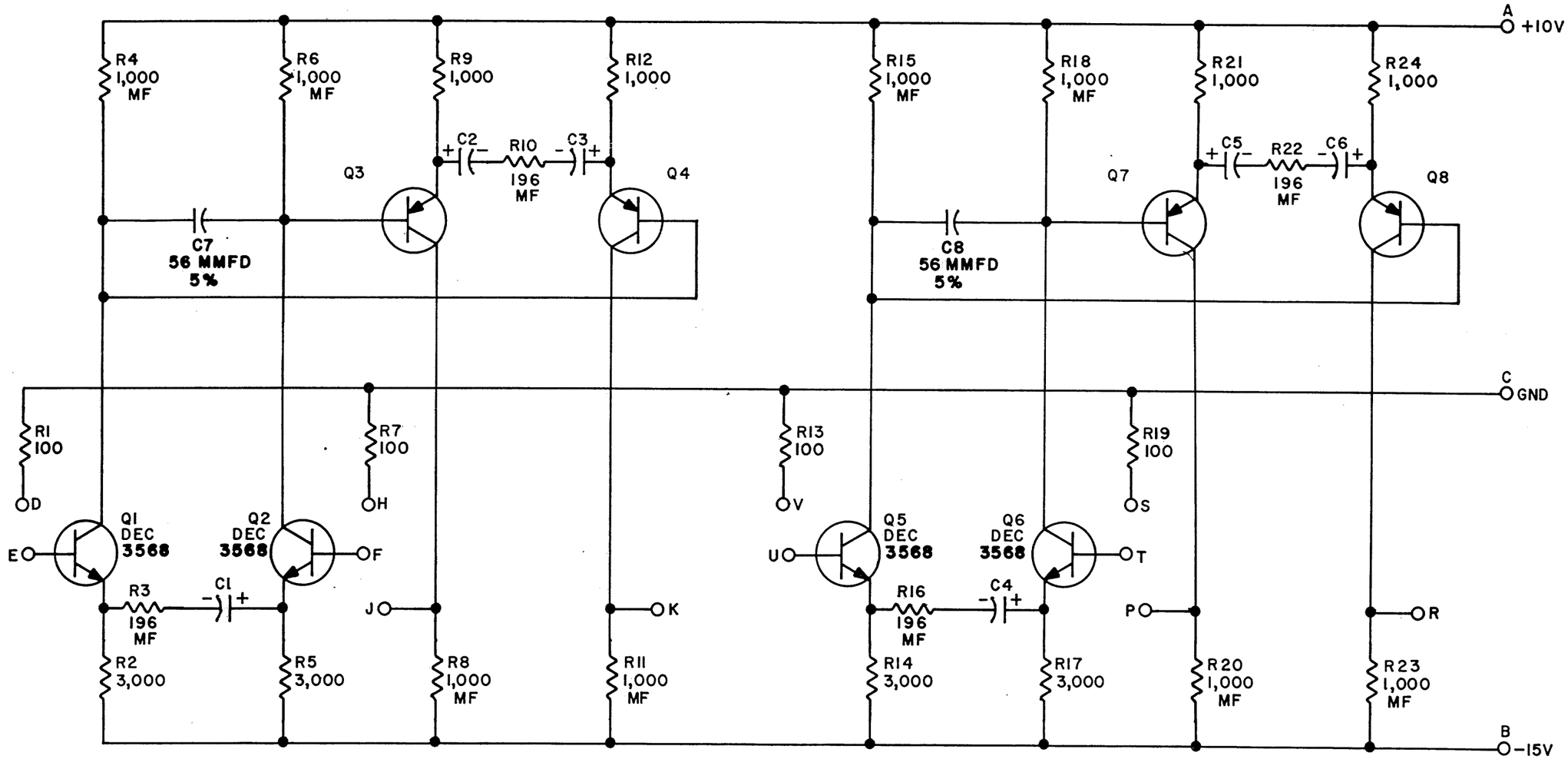

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
MF RESISTORS ARE 1/8W; 1% METAL FILM TO
CAPACITORS ARE 3.9 MFD 10% 10V
TRANSISTORS ARE DEC6534C (DEC6534B MAY BE SUBSTITUTED)

REVISIONS	REV.	CHG NO.	CHK
	A	5617	
	B	5992	
	C	5981 5998	
	D	6068	

DRN.	DATE 7-14-66
CHK'D	DATE 7/14/66
ENG.	DATE 7/15/66
PROD.	DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3568	2N3568		
DEC6534C	MPS6534		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
DIFFERENCE AMP. W532

SIZE	CODE	NUMBER	REV.
B	CS	W532-0-1	D

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

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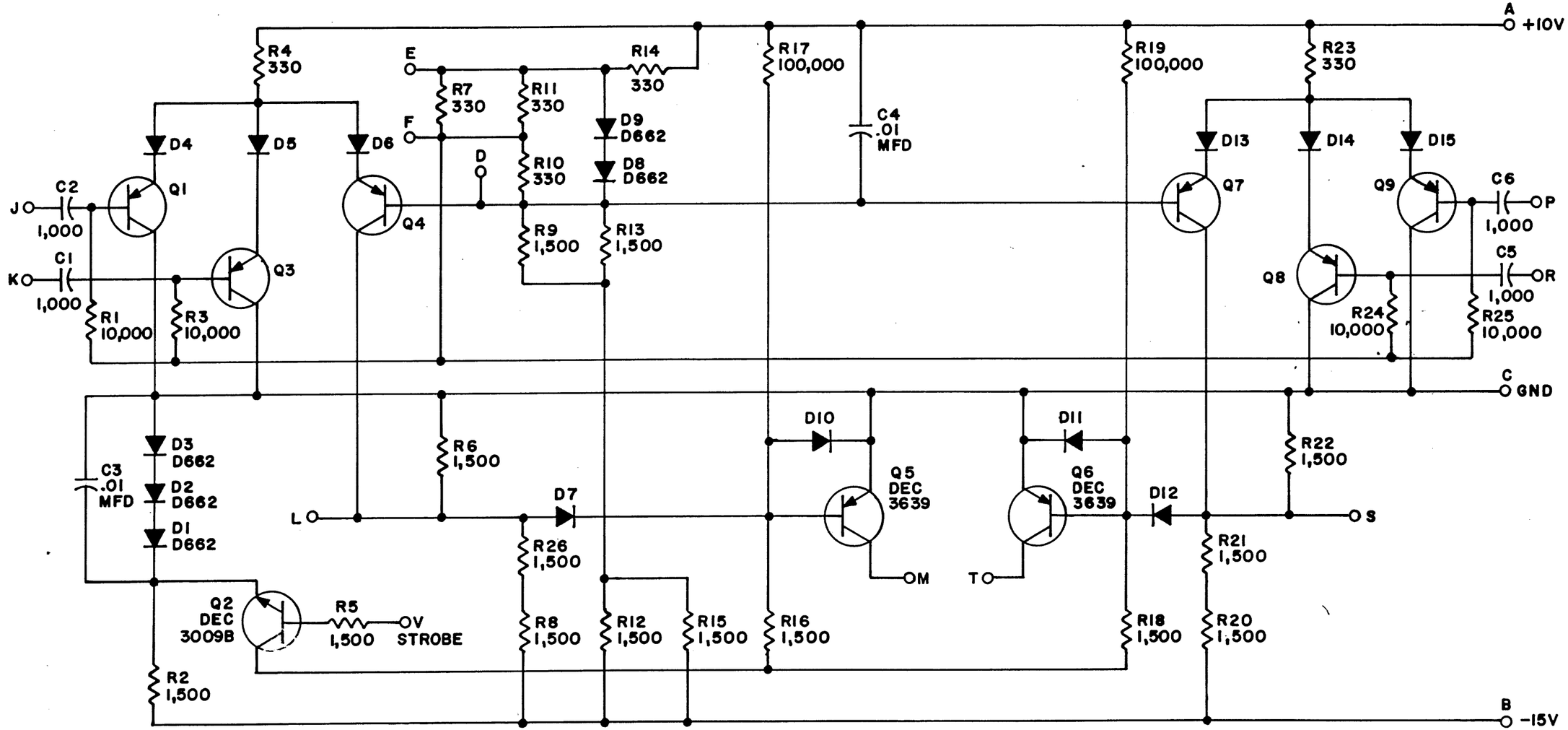

UNLESS OTHERWISE INDICATED:
- RESISTORS ARE 1/4W; 5%
- DIODES ARE D664
- CAPACITORS ARE MMFD
- TRANSISTORS ARE DEC6534D
  (DEC6534B MAY BE SUBSTITUTED)

REVISIONS			
REV.		A	B
CHG NO.		6071	6737
CHK			

DRN. M. Waller	DATE 1-12-67	
CHK'D	DATE 1/11/67	
ENG. J. Sudmore	DATE 1/18/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
DEC3639	2N3639		
DEC6534D	MPS6534		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
RECTIFYING SLICER W533

SIZE	CODE	NUMBER	REV.
B	CS	W533-0-1	B

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

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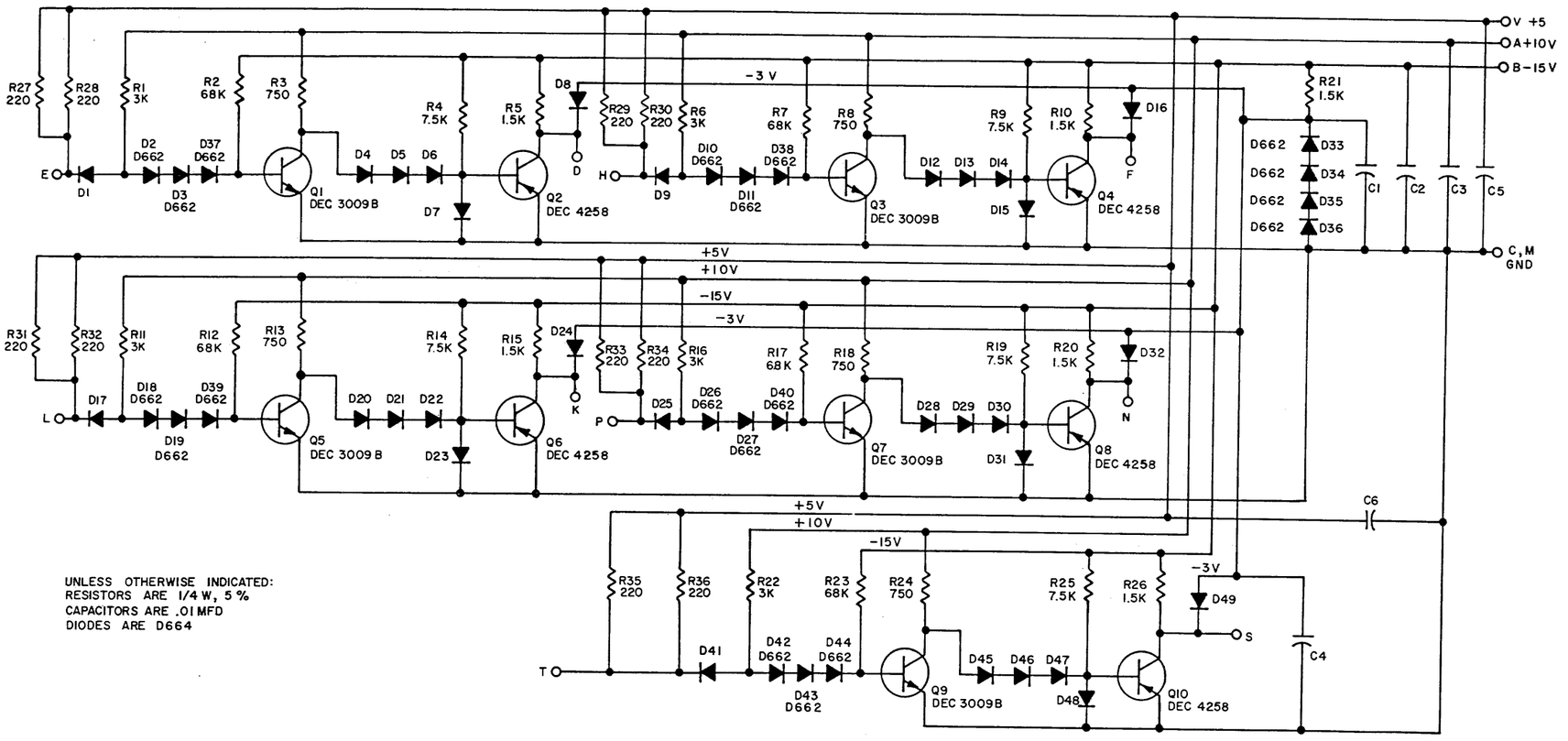

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 5 %
CAPACITORS ARE .01 MFD
DIODES ARE D664

REVISIONS	REV.	CHG NO.	CHK

DRN. CODY	DATE 4-2-69	
CHK'D	DATE	
ENG.	DATE	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC 3009 B	2N3009		
DEC 4258	2N4258		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE POSITIVE LEVEL TO DEC LEVEL RECEIVER W591

SIZE	CODE	NUMBER	REV.
C	CS	W591-0-1	
PRINTED CIRCUIT REV.		A	

DEC FORM NO. DRC 102

SIZE	CODE	NUMBER	REV.
C	CS	W591-0-1	

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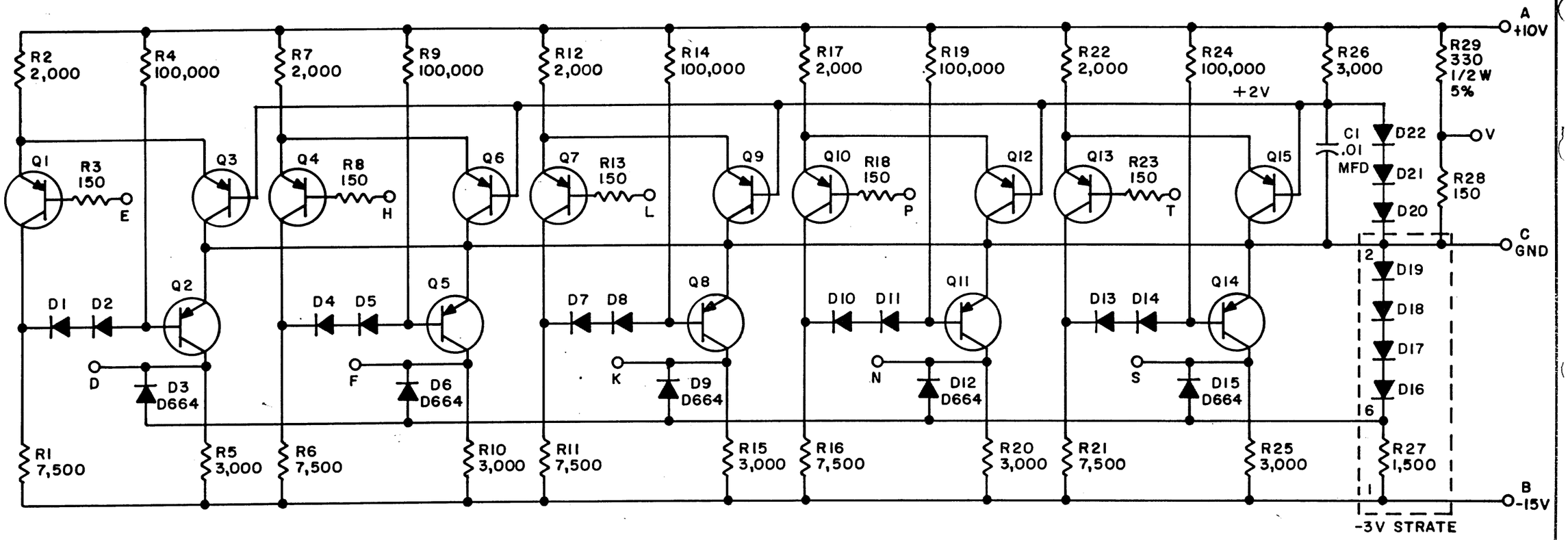

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC3639B
DIODES ARE D662
RESISTORS ARE 1/4W, 5%

REVISIONS | REV. | CHG NO. | CHK

DRN.	M. Keller	DATE 3-24-67
CHK'D	R. Sylvania	DATE 3/24/67
ENG.	W. Soggel	DATE 3-24-66
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: IBM 360 TO DEC BUS RECEIVER W592

SIZE	CODE	NUMBER	REV.
B	CS	W592-0-1	

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	W600-0-1	B

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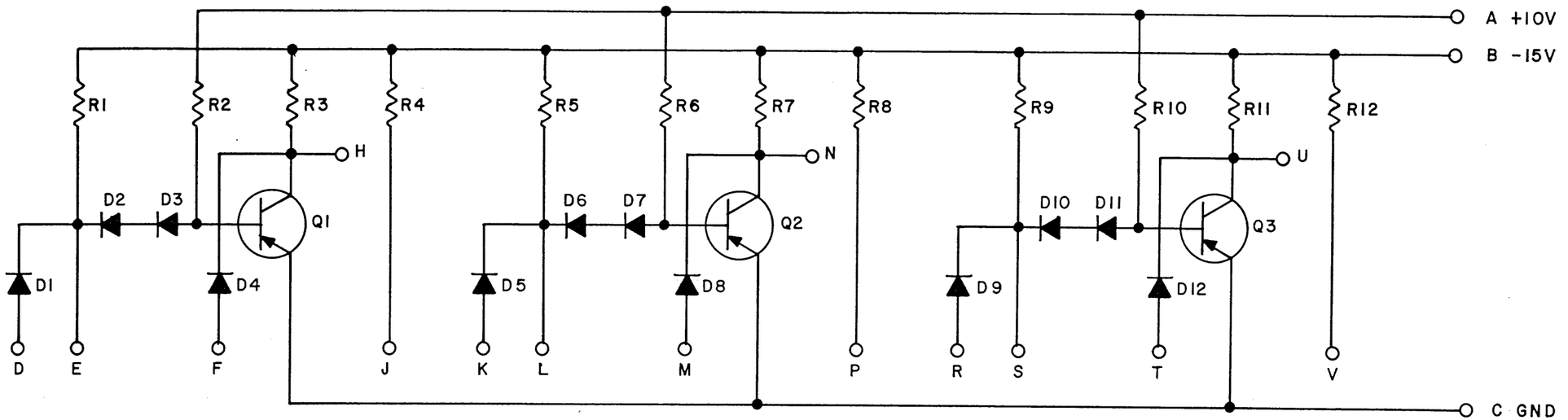


REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-W600-0-0
D2, D3, D6, D7, D10, D11	DIODE D662	1100113
D1, D4, D5, D8, D9, D12	DIODE D664	1100114
R4, R8, R12	RES. 1.8K 1/4W 5% CC	1300398
R3, R7, R11	RES. 7.5K 1/4W 5% CC	1301422
R2, R6, R10	RES. 100K 1/4W 10% CC	1300534
R1, R5, R9	RES. 15K 1/4W 10% CC	1300494
Q1 - Q3	TRANSISTOR DEC-2894-3B.	1503099

PARTS LIST

REVISIONS				
REV.	CHG NO.	REDR.	CHK	
A	7172	8	D.BAKER	
B	10001	11	D.BAKER	

DRN.	A. OUELLETTE	DATE	7-30-64
CHK'D	N. PERRYMAN	DATE	8-4-64
ENG.	B. SCUDNEY	DATE	8-4-64
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC-6B	NONE		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

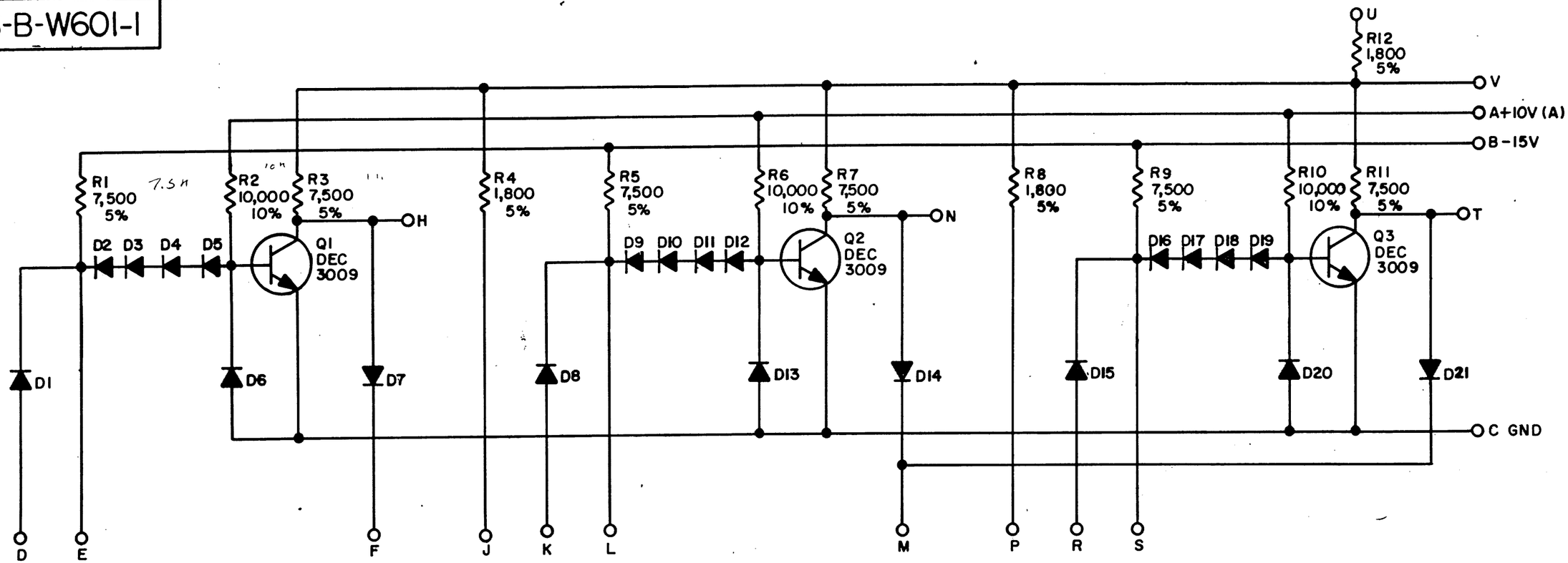
TITLE: NEGATIVE LEVEL AMPLIFIER W600

SIZE	CODE	NUMBER	REV.
B	CS	W600-0-1	B

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

CS-B-W601-1



UNLESS OTHERWISE INDICATED:
DIODES ARE D-664

	4280-1	ECO NO.	REVISIONS	DRAFTS. AN A. OUELLETTE DATE 7-31-64	CHECKER DATE 8-4-64	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS	CODE CS	DWG. NO. B-W601	REV. 1
		ENG.		ENGINEER DATE 8-4-64	PRODUCTION DATE	TITLE POSITIVE LEVEL AMPLIFIER W601			

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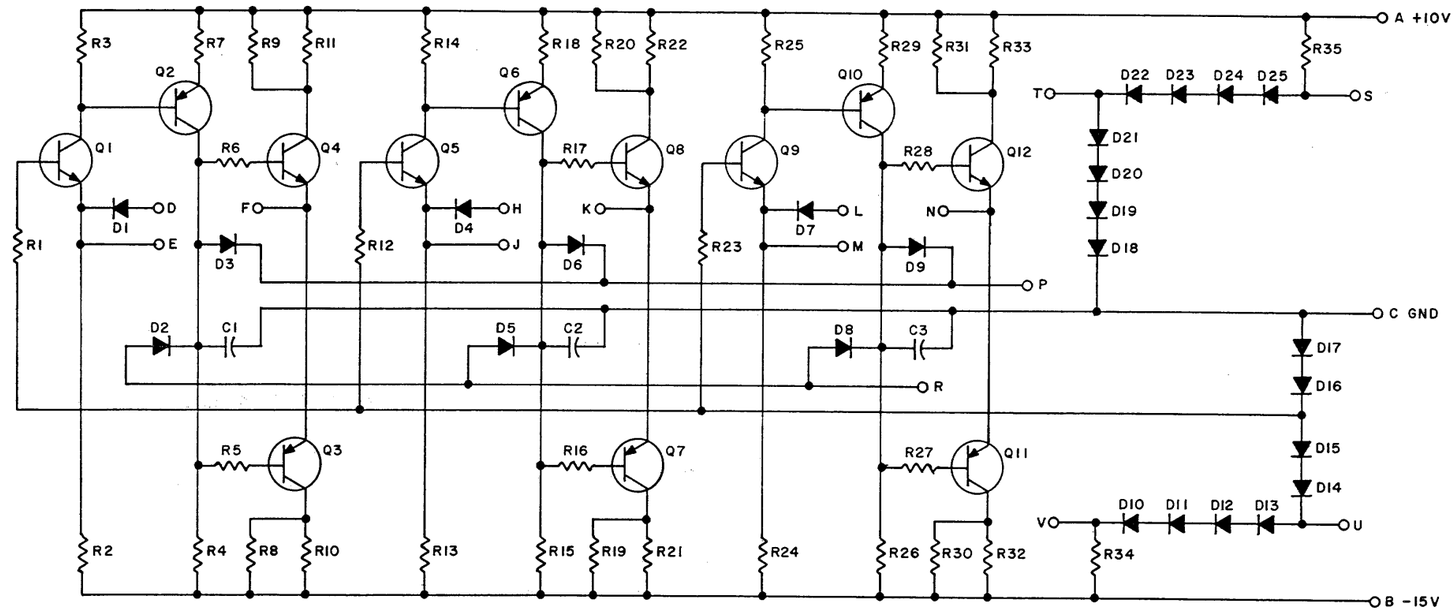

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-W602-0
C1-C3	CAP. 27MMF 100V 5% MICA	1001739
R23, R29, R31, R33, R35 R1, R7, R9, R11, R12, R18, R20, R22,	RES. 390 1/4W 5% C	1300309
R3, R14, R25	RES. 3K 1/4W 5% C	1300432
R2, R13, R24	RES. 15K 1/4W 5% C	1300496
R4, R15 R26	RES. 7.5K 1/4W 5% C	1301422
R5, R6, R16, R17, R27, R28	RES. 100 1/4W 5% C	1300229
R8, R10, R19, R21, R30, R32, R34	RES. 750 1/4W 5% CC	1301401
D10-D25	DIODE D662	1100113
D1-D9	DIODE D664	1100114
Q1, Q4, Q5, Q8, Q9, Q12	TRANSISTOR DEC3009B	1503100
Q2, Q3, Q6, Q7, Q10, Q11	TRANSISTOR DEC6534D	1503409

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		
DEC3009B	2N3009		
DEC6534D	MP36534		

REVISIONS			
CHK	CHG NO.	REV.	
REV & REDR.	7037	A	

DRN. I. HAHN	DATE 4-26-65	
CHK'D R. SILVERMAN	DATE 4-27-65	
ENG. R. DOANE	DATE 4-27-65	
PROD.	DATE	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE BIPOL R LEVEL AMPLIF R W602

SIZE	CODE	NUMBER	REV.
C	CS	W602 0-1	A

PRINTED CIRCUIT REV A

DIST 324 434 5

SIZE	CODE	NUMBER	REV.
C	CS	W602-0-1	A

DEC FORM NO. DRC 102

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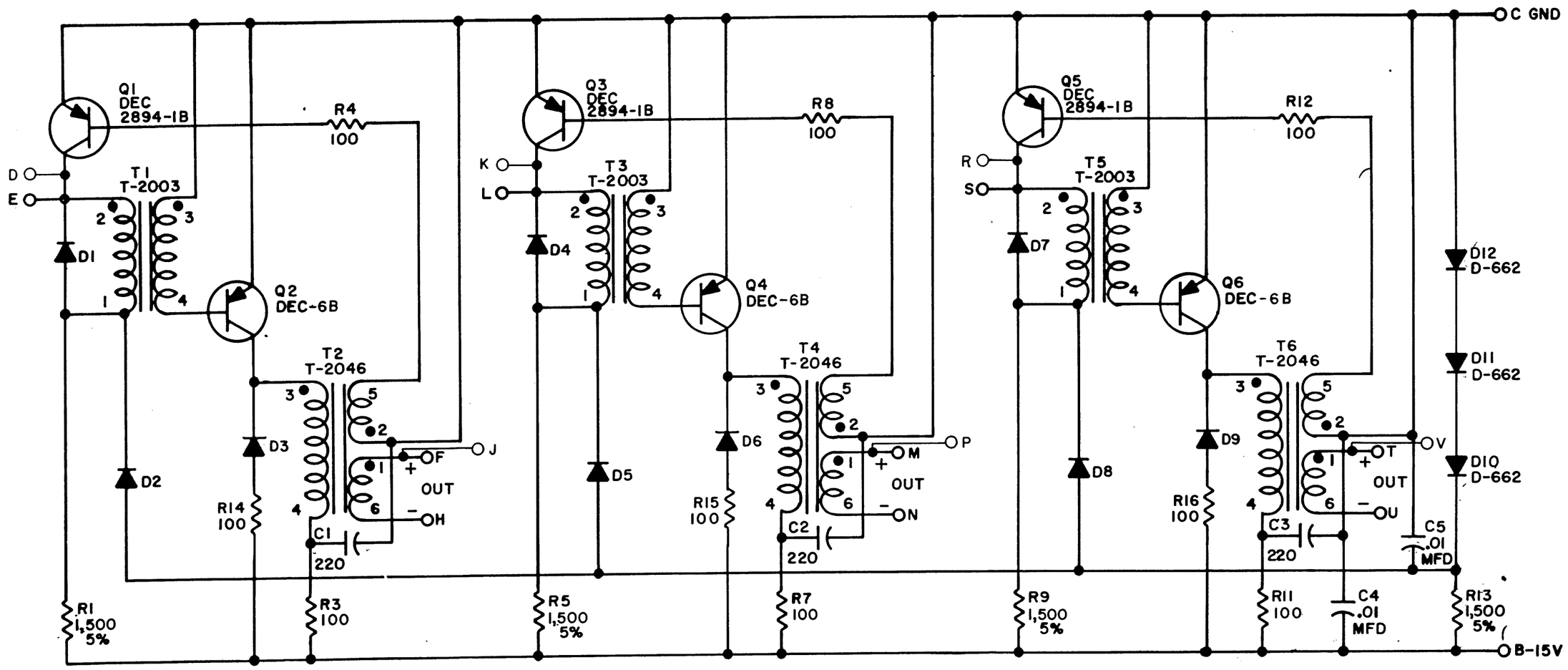

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
CAPACITORS ARE MMFD
DIODES ARE D-664

PARTS LIST A-PL-W607-0-0

REVISIONS				
REV.	4	E	F	H
CHG NO.	5483	5583	5724	7171
CHK	RMS	REV. & REDR.		

DRN.	A. OUELLETTE	DATE	7-29-64
CHK'D	N. PERRYMAN	DATE	7-29-64
ENG.	R. BANK	DATE	7-29-64
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC2894-1B	NONE		
DEC-6B	NONE		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: PULSE AMPLIFIER W607

SIZE	CODE	NUMBER	REV.
B	CS	W607-0-1	H

PRINTED CIRCUIT REV. D

DIST. 324 434 435

PINK

DEC FORM NO.
DRB 102

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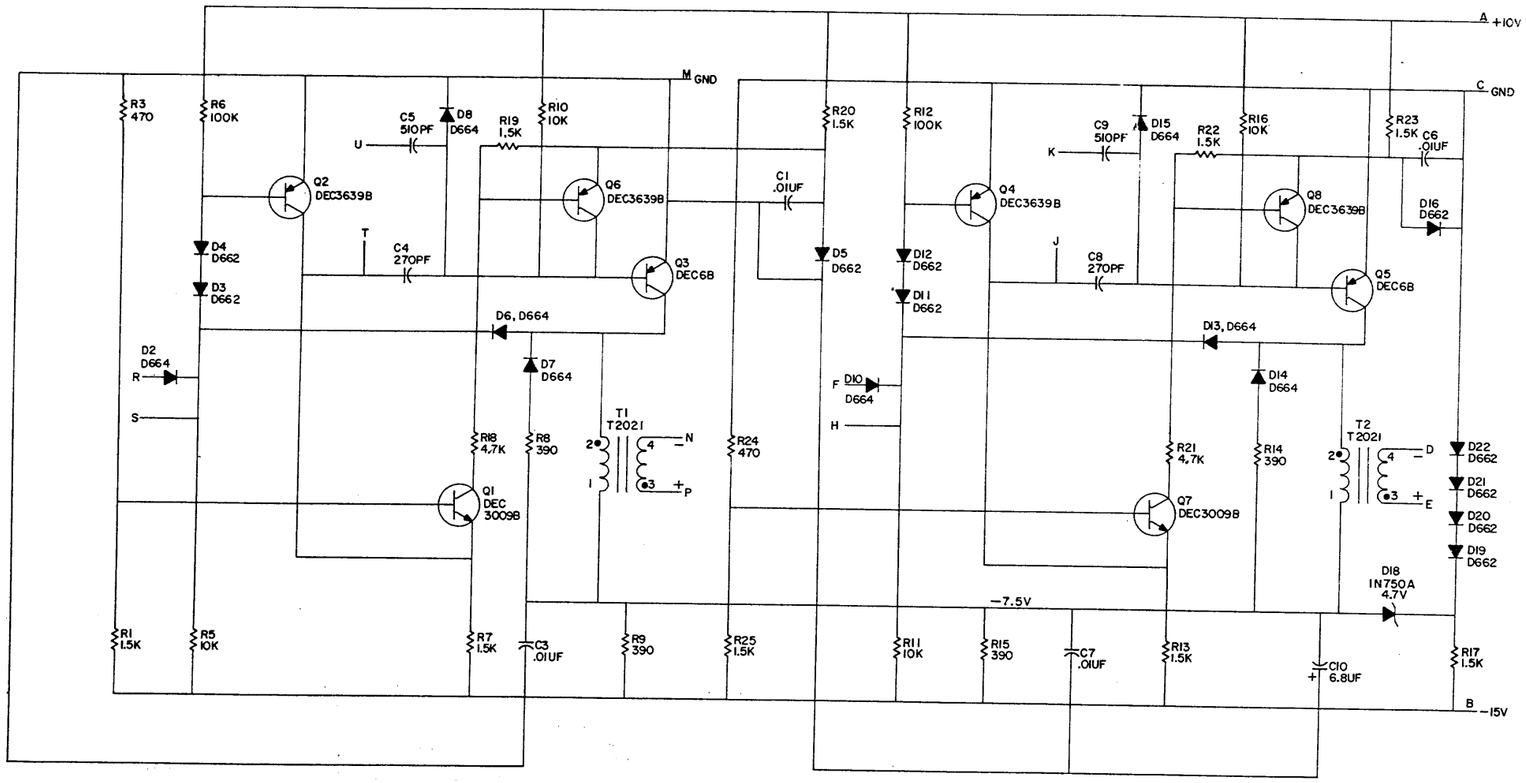

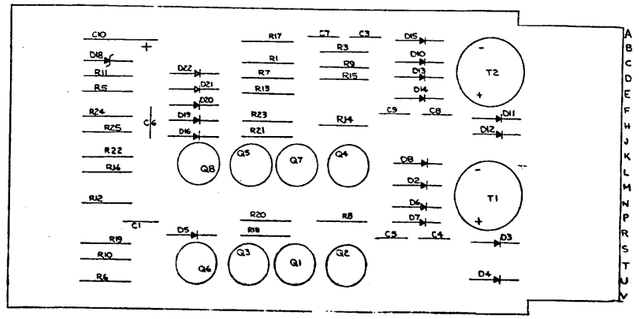

QTY.	REF. DESIGNATION	DESCRIPTION	DEC PART NO.	
		PARTS LIST		
		X-Y COORDINATE HOLE LOCATION	K-CO-W612-YA-4	1
		ASSY/DRILLING HOLE LAYOUT	D-AH-W612-YA-5	2
		MODULE ECO HISTORY	B-MH-W612-YA-6	3
1		ETCHED CIRCUIT BOARD	5003608	4
2	C4, C8	CAP. 270PF 100V 5% D.M.	1000022	5
1	C10	CAP. 6.8UF 35V 20% S.TANT	1000067	6
4	C1, 3, 6, 7	CAP. .01UF 100V 20% MISC	1001610	7
2	C5, C9	CAP. 510PF 15V 5% D.M.	1002476	8
1		DIODE D664	1100113	9
10	D3,4,5,11,12,16,19,20,21,22	DIODE D662	1100114	10
8	D2,6,7,8,10,13,14,15	DIODE D664	1100124	11
1	D18	DIODE 1N750A	1100125	12
4	R8, 9, 14, 15	RES. 390 ¼W 10%	1300310	13
9	R1,7,13, 17,19,20,22,23,25	RES. 1.5K ¼W 5%	1300391	14
2	R18, R21	RES. 4.7K ¼W 5%	1300447	15
4	R5, R10, R11, R16	RES. 10K ¼W 10%	1300481	16
2	R6, R12	RES. 100K ¼W 5%	1302466	17
2	R3, R24	RES. 470 ¼W 5%	1300316	18
4	Q8, Q4, Q6, Q2	TRANSISTOR DEC 3639B	1502762	19
2	Q1, Q7	TRANSISTOR DEC 30098-S	1503100	20
2	Q3, Q5	TRANSISTOR DEC-6B	1509090-01	21
2	T1, T2	TRANSFORMER T2021	5200658	21
1		HANDLE, FLIP CHIP - WHITE	9008337-03	22
2		EYELETS	9006732	23

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		
IN750A	SAME		
DEC30098	2N3646		
DEC3639B	2N3639		

REVISIONS: CHR | CHG NO | REV

DRN B.J. Hinkle DATE 2/14/72
CHK'D M. Worrall DATE 2/16/72
ENG'R M. Mathews DATE 2/17/72
PROJ'R M. Hamilton DATE 2/17/72

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: PULSE AMPLIFIER

SIZE D | CODE CS | NUMBER W612-YA-1 | REV

PRINTED CIRCUIT REV. D

DEC FORM NO. DAB 116

SIZE B | CODE CS | NUMBER W640-0-1 | REV. L

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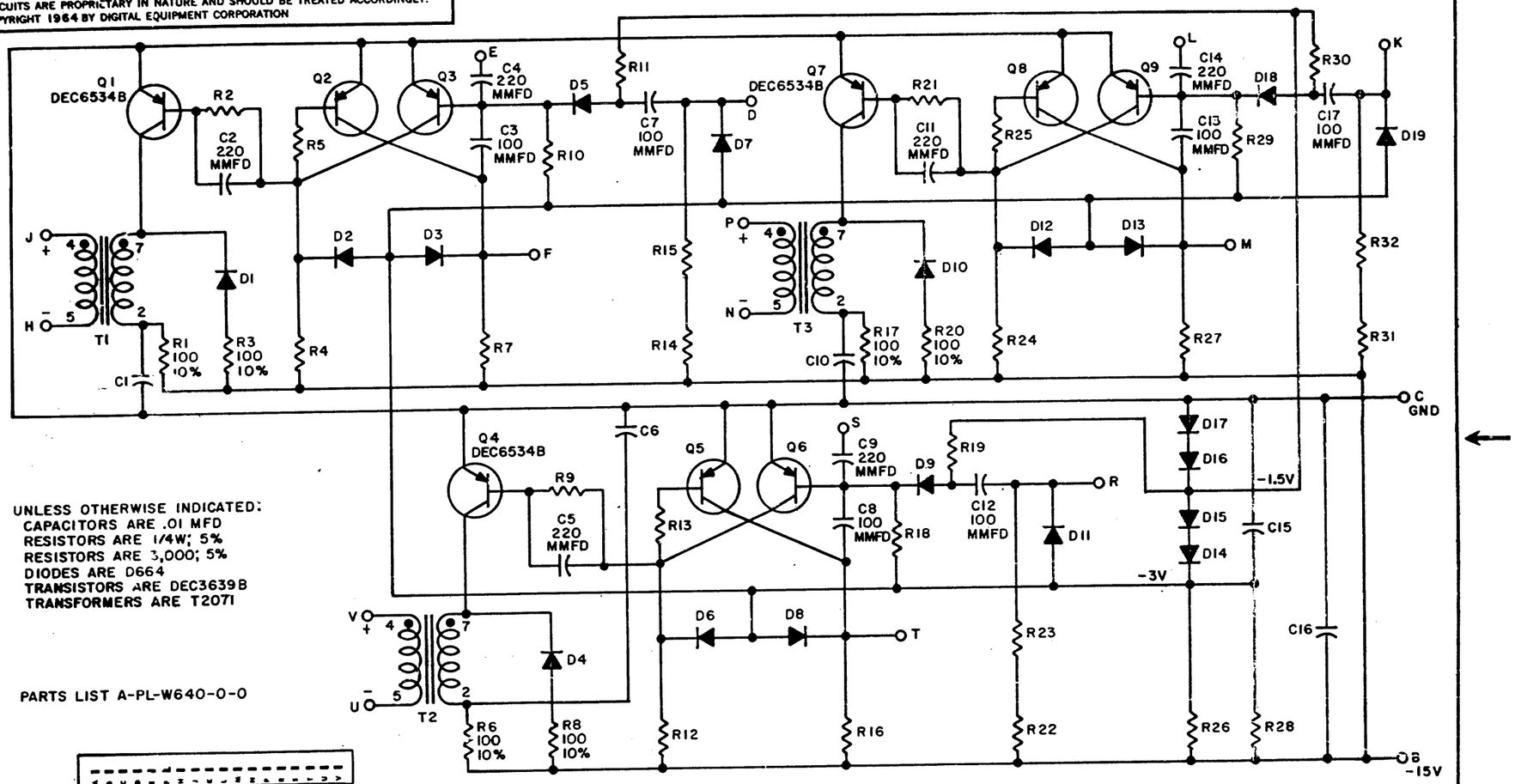

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01 MFD
RESISTORS ARE 1/4W; 5%
RESISTORS ARE 3,000; 5%
DIODES ARE D664
TRANSISTORS ARE DEC3639B
TRANSFORMERS ARE T2071

PARTS LIST A-PL-W640-0-0

REVISIONS	CHK	CHG NO.	REV.
	RMS	5876	H
	REV. & REDR.	6181	J
		6816	K
		6945	L

DRN.	H. PORTER	DATE 9-22-64
CHK'D	N. PERRYMAN	DATE 9-29-64
ENG.	R. BANK	DATE 9-29-64
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639B	2N3639		
DEC6534B	MPS6534		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: PULSE AMPLIFIER W640

SIZE	CODE	NUMBER	REV.
B	CS	W640-0-1	L

PRINTED CIRCUIT REV. J

DIST. 324 434 433

PINK

DEC FORM NO. DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	W681-0-1	H

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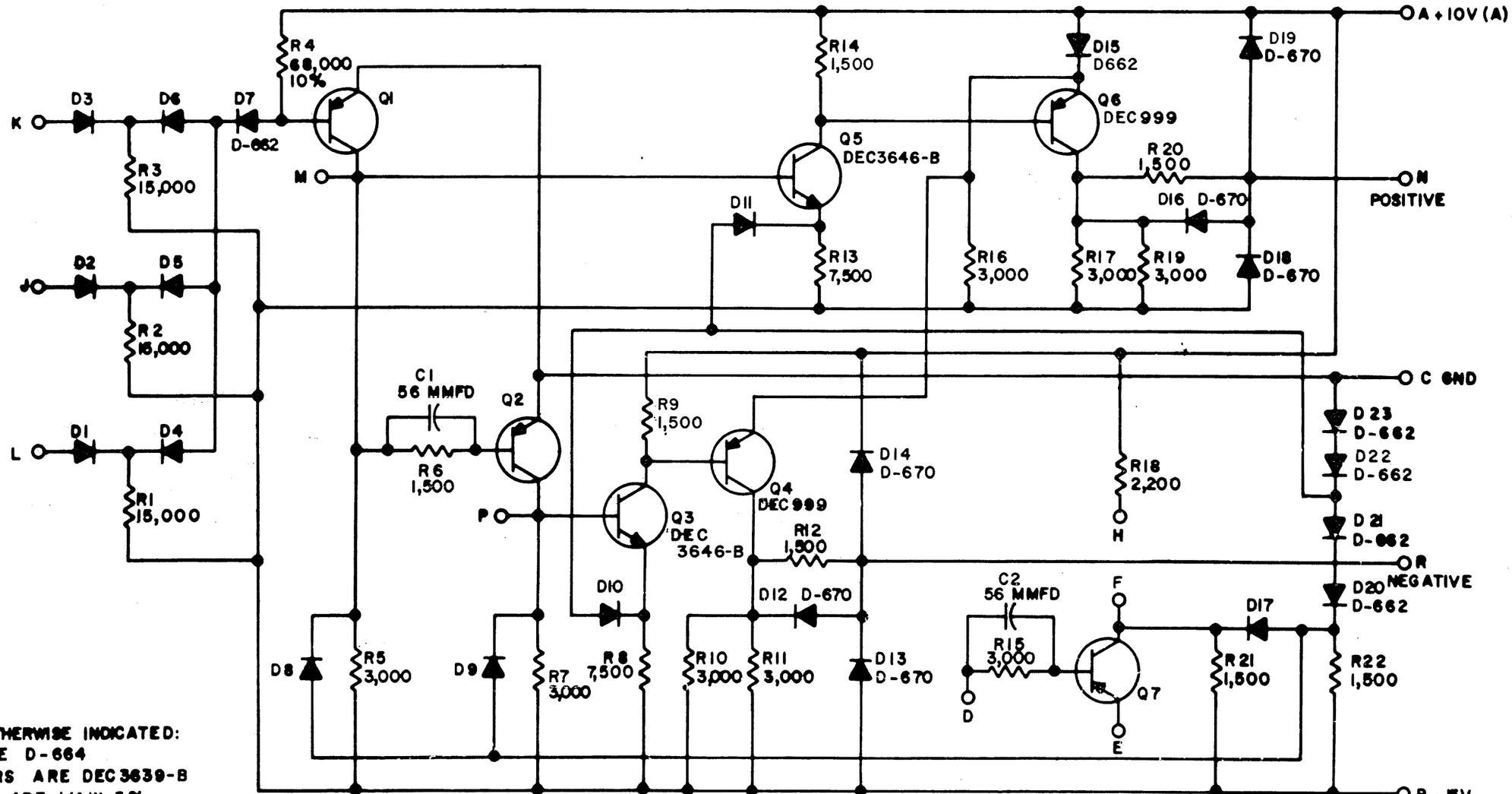

UNLESS OTHERWISE INDICATED:
DIODES ARE D-664
TRANSISTORS ARE DEC3639-B
RESISTORS ARE 1/4 W, 5%

PARTS LIST A-PL-W681-0-0

REVISIONS							
REV.	2		C	D	E	F	H
CHG NO.	5370		5441	5586	5652	5829	7110
CHK	DAW	REV & REDR.					

DRN. I. HAHN	DATE 4-16-65	
CHK'D R. SILVERMAN	DATE 4-21-65	
ENG. R. SOGGE	DATE 4-20-65	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639-B	2N3639-B	D670	IN3653
DEC999	MM999		
DEC3646-B	NONE		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE SCOPE INTENSIFIER W681

SIZE	CODE	NUMBER	REV.
B	CS	W681-0-1	H

PRINTED CIRCUIT REV. A

DEC FORM NO. DRB 102

DIST 324 437 1135 2 D.N.V.

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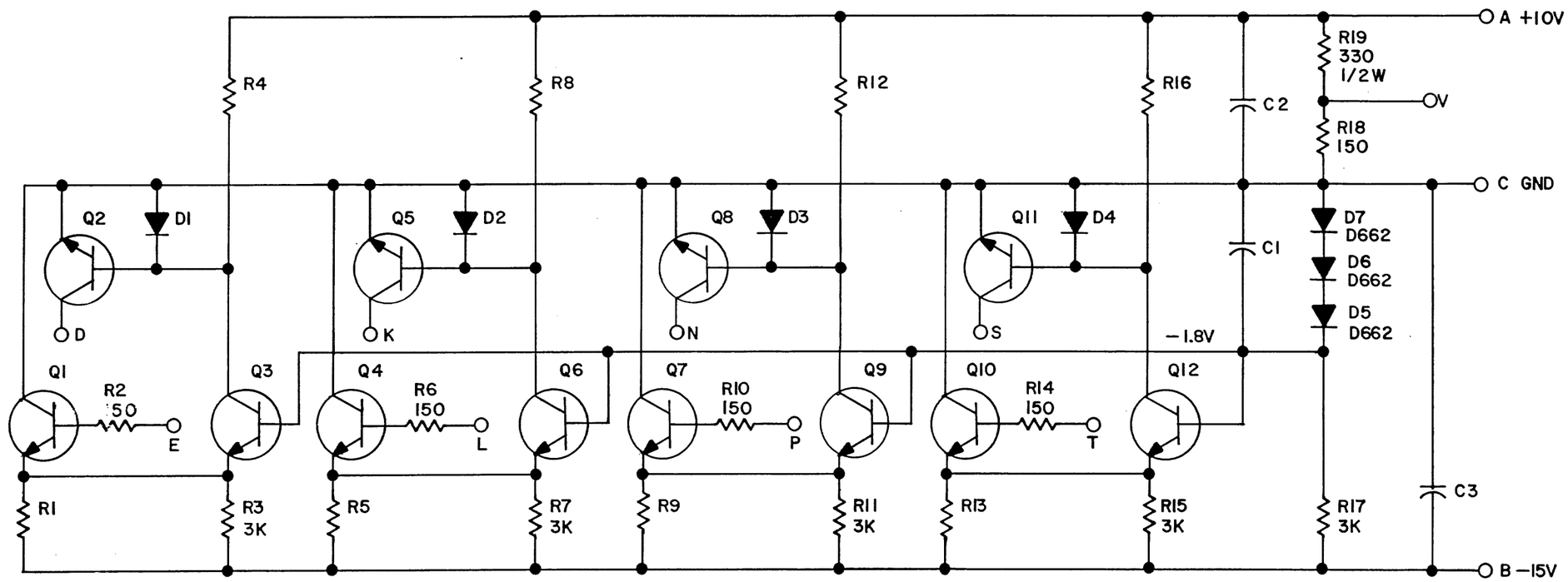

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC3009B
RESISTORS ARE 1.5K,1/4W,5%
DIODES ARE D664
CAPACITORS ARE .01UF,100V,20%

REVISIONS		
REV.		A
CHG NO.		00001
CHK		
FWO.		

DRN.	M.HALLER	DATE 3-23-67
CHK'D	R.SILVERMAN	DATE 3-24-67
ENG.	R.SOGGE	DATE 3-24-67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3009B	2N3009		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: DEC TO IBM 360 BUS DRIVER W692

SIZE	CODE	NUMBER	REV.
B	CS	W692-0-1	A

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	W693-0-1	D

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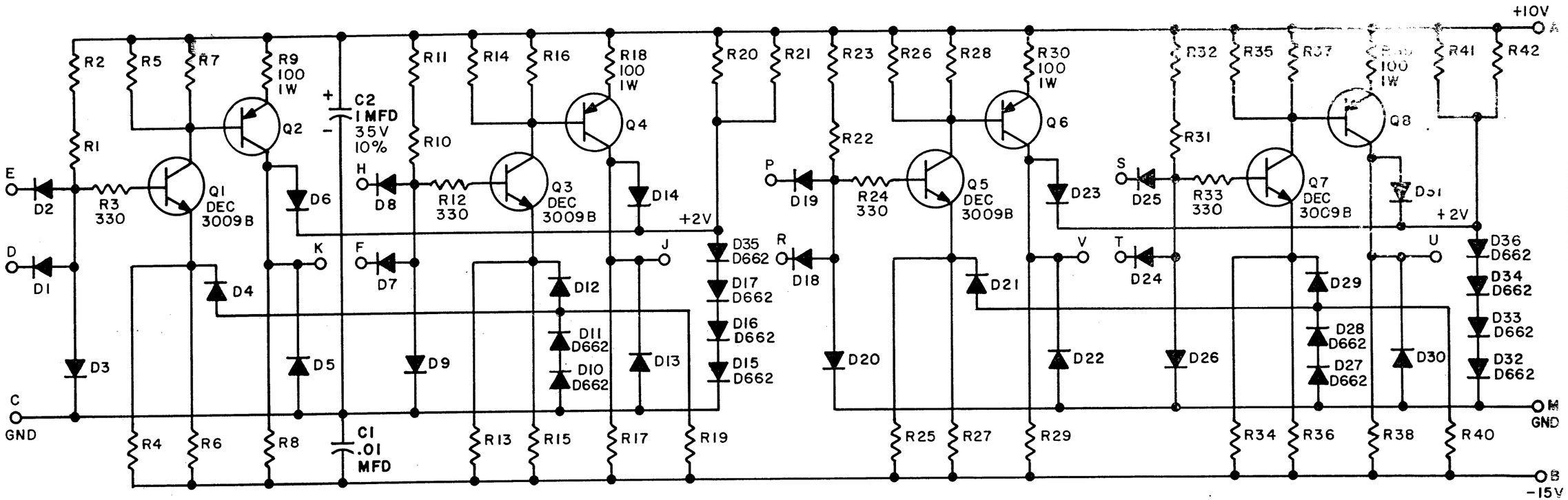

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE 2N4258
DIODES ARE D664
RESISTORS ARE 2,200
RESISTORS ARE 1/4 W, 5%

PARTS LIST A-PL-W693-0-0

REVISIONS	REV.	A	B	C	D
	CHG NO.	6521		6918	6959
	CHK				

DRN. M. Waller	DATE 5-22-67	
CHK'D	DATE 5/23/67	
ENG.	DATE 5/25/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC3009B	2N3009		
2N4258	SAME		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE DEC TO CTμL LINE DRIVER W693

SIZE	CODE	NUMBER	REV.
B	CS	W693-0-1	D

PRINTED CIRCUIT REV. C

DEC FORM NO.
DRB 102

PINK

DIST. 324 114 435 359

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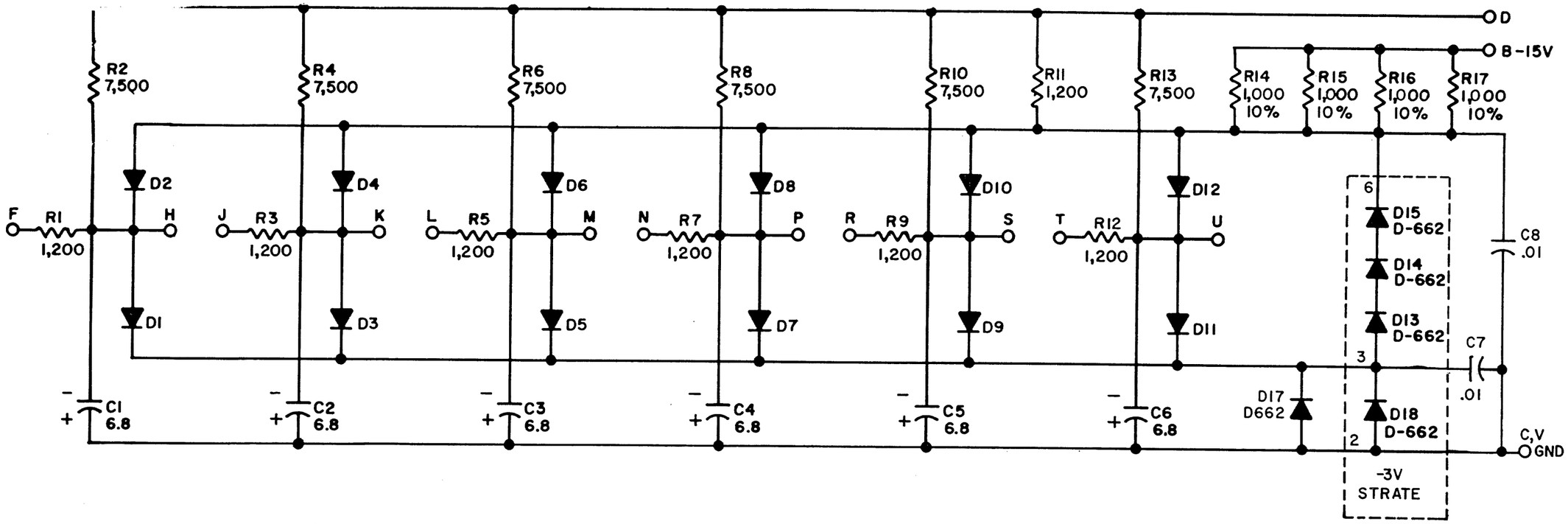

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4 W, 5%
CAPACITORS ARE MFD
DIODES ARE D-664

A B C D E F H J K L M N P R S T U V

REVISIONS			
REV	2		C
CHG NO	5283	REV. & REDR.	5408
CHK	DAW		Emk

DRN.	A. OUELLETTE	DATE	8-3-64
CHK'D	N. PERRYMAN	DATE	8-4-64
ENG.	B. SCUDNEY	DATE	8-4-64
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: SWITCH FILTER W700

SIZE	CODE	NUMBER	REV.
B	CS	W700-0-1	C

PRINTED CIRCUIT REV. B

DEC FORM NO.
DRB 102

SIZE	CODE	NUMBER	REV.
B	CS	W701-0-1	A

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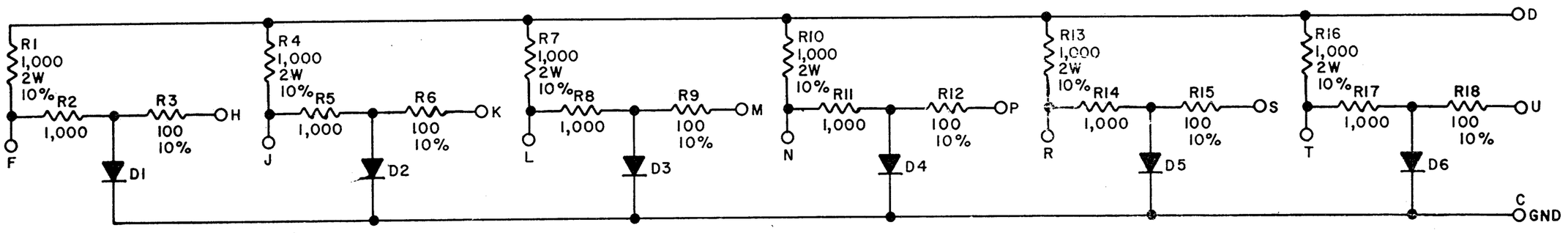


UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 5%
DIODES ARE D664

REVISIONS			
REV	CHG NO.	CHK	
A	5532	REV. & REDR.	

DRN.	I. HAHN	DATE	10-20-65
CHK'D	R. SILVERMAN	DATE	10-21-65
ENG.	E. DE CASTRO	DATE	10-21-65
PROD.		DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		

EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

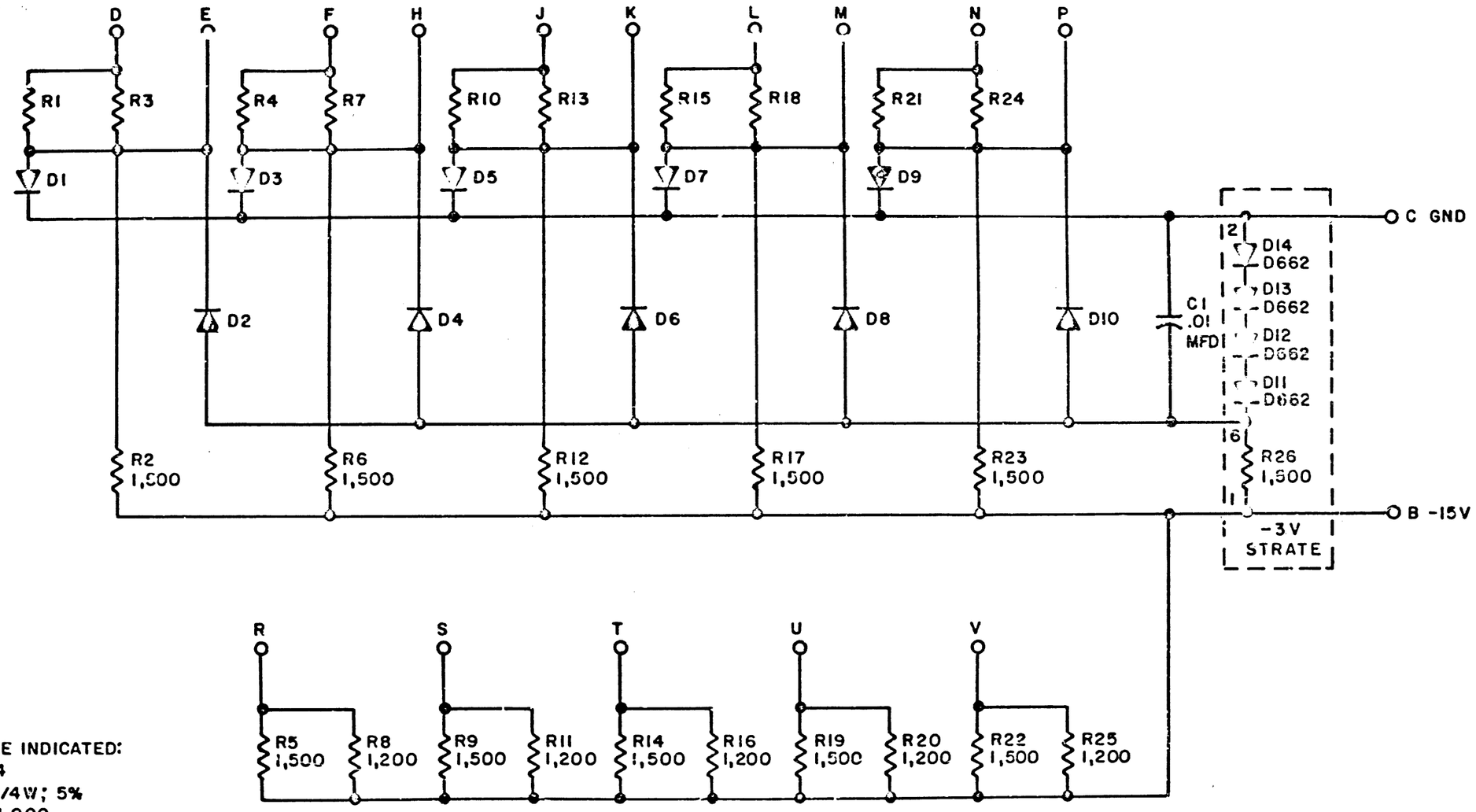
TITLE
INPUT NETWORK W701

SIZE	CODE	NUMBER	REV.
B	CS	W701-0-1	A

PRINTED CIRCUIT REV. A

DEC FORM NO.
DRB 102

...FOR TEST AND MAINTENANCE PURPOSES. THE ... SHOULD BE TREATED ACCORDINGLY.
... INFORMATION



UNLESS OTHERWISE INDICATED:
DIODES ARE D664
RESISTORS ARE 1/4W; 5%
RESISTORS ARE 1,000

DRN. [illegible] DATE 12-6-67
CH'K'D. DATE
ENG. [illegible] DATE
PROD. DATE

TRANSISTOR & DIODE CONVERSION CHART

		DEC	FIA

EQUIPMENT CORPORATION
MAYNARD MASSACHUSETTS

TITLE TELETYPE LEVEL CONVERTER W702

SIZE B | CODE 03 | NUMBER W702-9-1 | REV A

CIRCUIT REV

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READER RUN BL · FLAG OUTPUT AP · STROBED FLAG OUTPUT AN · FLAG STROBE AH · BIT 1 OUTPUT AR · BIT 2 OUTPUT AV · BIT 3 OUTPUT AU · BIT 4 OUTPUT AT · BIT 5 OUTPUT BD · BIT 6 OUTPUT BE · BIT 7 OUTPUT BF · BIT 8 OUTPUT BH · READ STROBE BT · ENABLE BN · CLOCK ENABLE BJ

BC AC GND · AB -15V · AJ +3.6V

Q12 Q1 Q2 DEC 2894-3B Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 D3 D664

D4 D668 · D2 D664 · D1 D664

R37 15K · R36 2.4K · R35 15K · R33 15K · R32 2.4K · R31 15K · R30 2.4K · R29 15K · R28 2.4K · R27 15K · R26 2.4K · R25 15K · R24 2.4K · R23 15K · R22 2.4K · R21 15K · R20 2.4K · R19 15K · R17 15K · R18 2.4K · R11 1.2K · R16 2.4K · R15 15K

R13 2.7K · R14 3K · R12 1.5K · R10 1.5K · R9 1.2K · R8 2.4K · R38 3K · R7 2.4K · R6 3K · R4 3K · R5 2.7K · R3 2.7K · R2 1.5K · R1 1.2K

E3 READER RUN · E5 FLAG · E7 BIT 1 · E7 BIT 2 · E9 BIT 3 · E9 BIT 4 · E11 BIT 5 · E11 BIT 6 · E13 BIT 7 · E13 BIT 8 · E15 ACTIVE · E15 IN LAST UNIT · E18 STOP 2 · E18 STOP 1 · E3 FREQ DIVIDE · E5 FLAG DLY

E8 · E6 · E10 · E12 · E14 · E16 · E17 · E1 · E2 · E4

T.P.1 · T.P.2 · T.P.3 · T.P.4 · T.P.5 · T.P.6

5 BIT CODE · 8 BIT CODE

GND · -15V · +3.6V

TELETYPE SERIAL INPUT AF

NO RUN OPEN

CLOCK INPUT BS

1.5 & 2.0 UNITS STOP TIME · 2.0 & 1.0 UNITS STOP TIME · 1.5 & 2.0 · 1.5 · 1.0 · 2.0 & 1.0

CLEAR FLAG AD

(STD) CLR FLAG ON READ STROBE

BV POWER CLEAR

C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18

UNLESS OTHERWISE INDICATED:
CAPACITORS = .01UF, 100V, 20%
⊗ = ETCH PADS
o---o INDICATES JUMPER
⌀ ARE SPLIT LUGS
RESISTORS ARE 1/4W, 5%
TRANSISTORS ARE DEC6534B
E8, E12, E17 ARE MC889P
E2, E4, E6, E10, E14 ARE MC824P
E1 & E16 ARE MC899P
E3, E5, E7, E9, E11, E13, E15, E18 ARE MC890P
PIN 4 ON EACH IC = GND
PIN 11 ON EACH IC = 3.6V

* 2 (TWO) IN3606 IN SERIES

REVISIONS	CHK	CHG NO.	REV.
	REV & REDR	00002	B
	TYM	00003	F
		00004	H
		00005	J

DRN.	HALLER	DATE 10-27-66
CHK'D	PERRYMAN	DATE 10-27-66
ENG.	RICKETTS	DATE 10-27-66
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534B	MPS6534	D668 *	
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: TELETYPE RECEIVER W706

SIZE	CODE	NUMBER	REV
C	CS	W706-0-1	J

PRINTED CIRCUIT REV. E

REV J · NUMBER W706-0-1 · CODE CS · SIZE C

DEC FORM NO. DRC 102

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UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W 5%
TRANSISTORS ARE DEC6534B
INTEGRATED CIRCUITS ARE
MOTOROLA 800 SERIES PLASTIC 0° TO + 70°C
E1, E2, E13, E14 & E20 ARE DEC889P HEX INVERTER
E3, E4, E10, E11 & E12 ARE DEC824P QUAD INPUT GATE
E15, & E16 ARE DEC899P DUAL POWER BUFFER
E5, E6, E7, E8, E9, E17, E18 & E19
ARE DEC890P DUAL J-K FLIP-FLOP
H NO CONNECTION TO +3.6 SUPPLY VOLTAGE
IS PRESENT ON E14, E11, E20

PIN 4 ON E1-E20= GND

PIN 11 ON E1-E10, E12, E13,
E15-E19= +3.6

* 2 (TWO) IN3606 IN SERIES

ITEM NO	DEC PART NO.	DESCRIPTION	QTY
		PARTS LIST	
22	9008337-03	HANDLE, FLIP CHIP - WHITE	2
21	9006731	FEED THRU EYELET	138
20	9006735	SPLIT LUG	13
19	9006732	EYELET #GS4-7	4
18	1905290	I.C. DEC 899P	2
17	1904822	I.C. DEC 889P	5
16	1904821	I.C. DEC 824P	5
15	1904820	I.C. DEC 890P	8
14	1503099	TRANS DEC 2894-38 EPOXY CAN TO-18	1
13	1503409-01	TRANS. DEC 6534B	3
12	1303177	RES. 2.4K 1/4W 5%	3
11	1301320	RES. 1.2K 1/4W 5%	4
10	1300496	RES. 15K 1/4W 5%	3
9	1300432	RES. 3K 1/4W 5%	12
8	1300426	RES. 2.7K 1/4W 5%	12
7	1300391	RES. 1.5K 1/4W 5%	3
6	1102161	DIODE D668	1
5	1000042	CAP. 1000PF 100V 5% MICA	1
4	1000025	CAP. 560PF 100V 5% D.M.	1
3	5003976	ETCHED CIRCUIT BOARD	1
2	B-M1-W707-0-6	MODULE ECO HISTORY	
1	D-AH-W707-0-5	ASSY/DRILLING HOLE LAYOUT	

KEY | SIZE CODE NUMBER | D CS W707-0-1

REVISIONS			
SYM	CHG NO	REV	
	8818	A	
	8873	B	
	8987	C	
	10005	D	
	10006	E	
	10004	K	

DRAWN M.HALLER 10-66
CHK'D N.PERRYMAN 10-66
ENG A.RICKETTS 10-66
PROD

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534B	MPS6534		
D668	D668 M		

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE TELETYPE TRANSMITTER

SIZE D | CODE CS | NUMBER W707-0-1 | REV. K

PRINTED CIRCUIT REV. H L P

DEC FORM NO. 990 110

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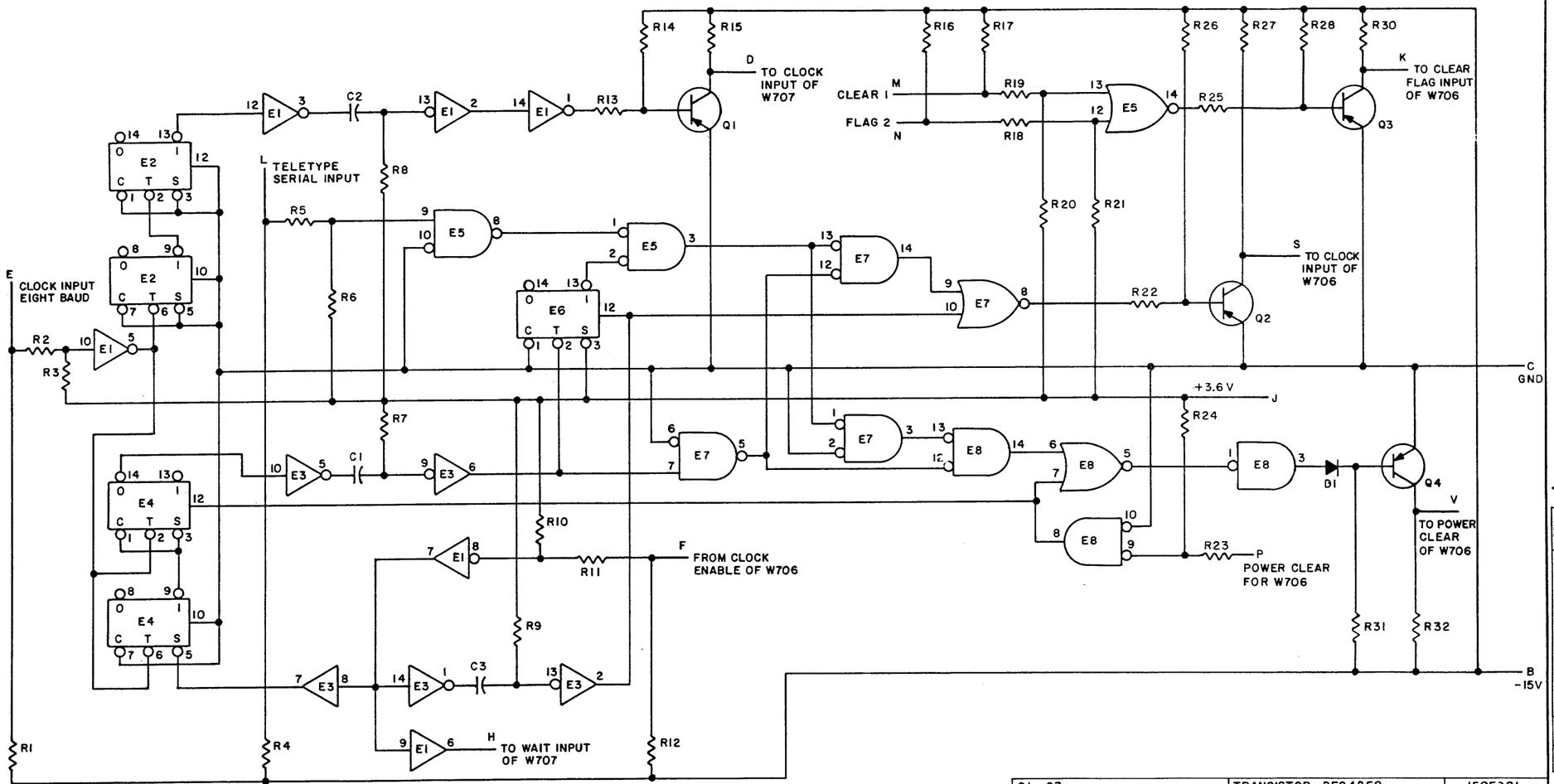

Q1-Q3	TRANSISTOR DEC4258	1505321
E5, E7, E8	INTEGRATED CKT. MC724P	1904821
E2, E4, E6	INTEGRATED CKT. MC790P	1904826
E1, E3	INTEGRATED CKT. MC789P	1904822
Q4	TRANSISTOR DEC6B	1509090-01
C1 THRU C3	CAP. 150 MMF 100V 5% D.M.	1000019
R14, R26, R28, R31	RES. 15K 1/4W 5% CC	1300496
R7, R8, R9, R13, R22, R25	RES. 2.4K 1/4W 5% CC	1303177
R3, R6, R10, R15, R20, R21, R24, R27, R32	RES. 3K 1/4W 5% CC	1300432
R2, R5, R11, R18, R19, R23	RES. 2.7K 1/4W 5% CC	1300426
R1, R4, R12, R16, R17, R30	RES. 7.5K 1/4W 5% CC	1301422
D1	DIODE D668	1102161
	PARTS LIST	A-PL-W708-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

NOTES:
PIN 4 ON EACH IC = GND
PIN 11 ON EACH IC = +3.6V
IC'S ARE MOTOROLA MC700 SERIES RTL

* 2 (TWO) IN3606 IN SERIES

REVISIONS			
CHK	CHG NO.	REV.	
	6842	A	
	7088	B	
	00001	C	

DRN. M. Waller	DATE 3-3-67	
CHK'D	DATE 3/10/67	
ENG.	DATE 3/15/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534B	MPS6534		
D668	D668 *		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE COMMUNICATIONS INTERFACER W708

SIZE	CODE	NUMBER	REV.
C	CS	W708-0-1	C

PRINTED CIRCUIT REV. A

SIZE C | CODE CS | NUMBER W708-0-1 | REV. C

DEC FORM NO. DRC 102

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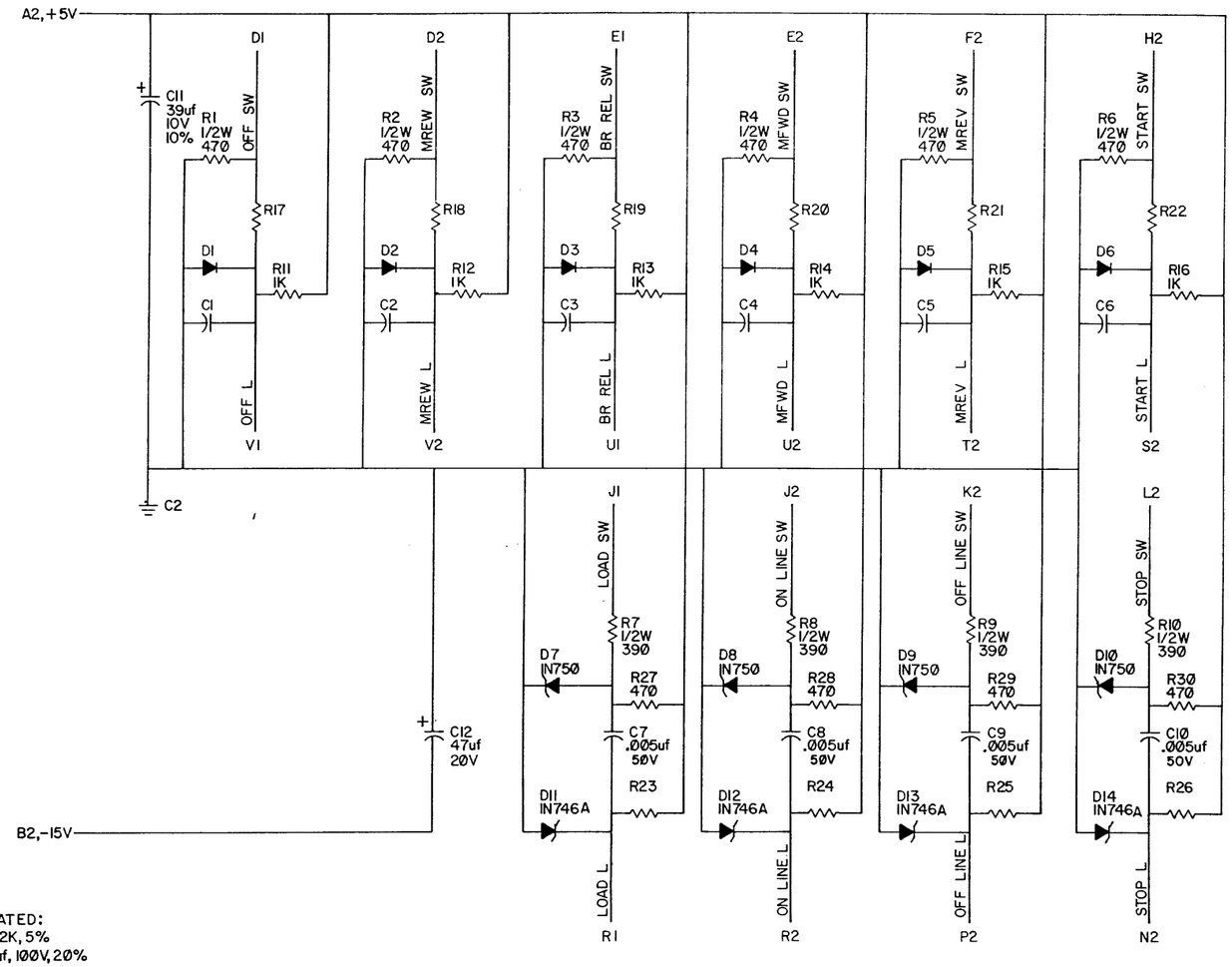

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 1.2K, 5%
CAPACITORS ARE .01uf, 100V, 20%
DIODES ARE D003
DIODES WHICH ARE IN750 ARE 4.7V
DIODES WHICH ARE IN746 ARE 3.3V

REVISIONS			
CHK	CHG NO.	REV
	W726-1	B
H. DRAB		

DRN. jeanne french	DATE 7/28/70	
CHK'D	DATE 9/9/70	
ENG.	DATE 9-15-70	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D003	IN994		
IN746A	SAME		
IN750	SAME		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: SWITCH FILTER W726

SIZE	CODE	NUMBER	REV
C	CS	W726-0-1	B

PRINTED CIRCUIT REV. B

SIZE C | CODE CS | W726-0-NUMBER 1 | REV. 13

DEC FORM NO. DRC 102

REV.	NUMBER	CODE	SIZE
D	W800-0-1	CS	B

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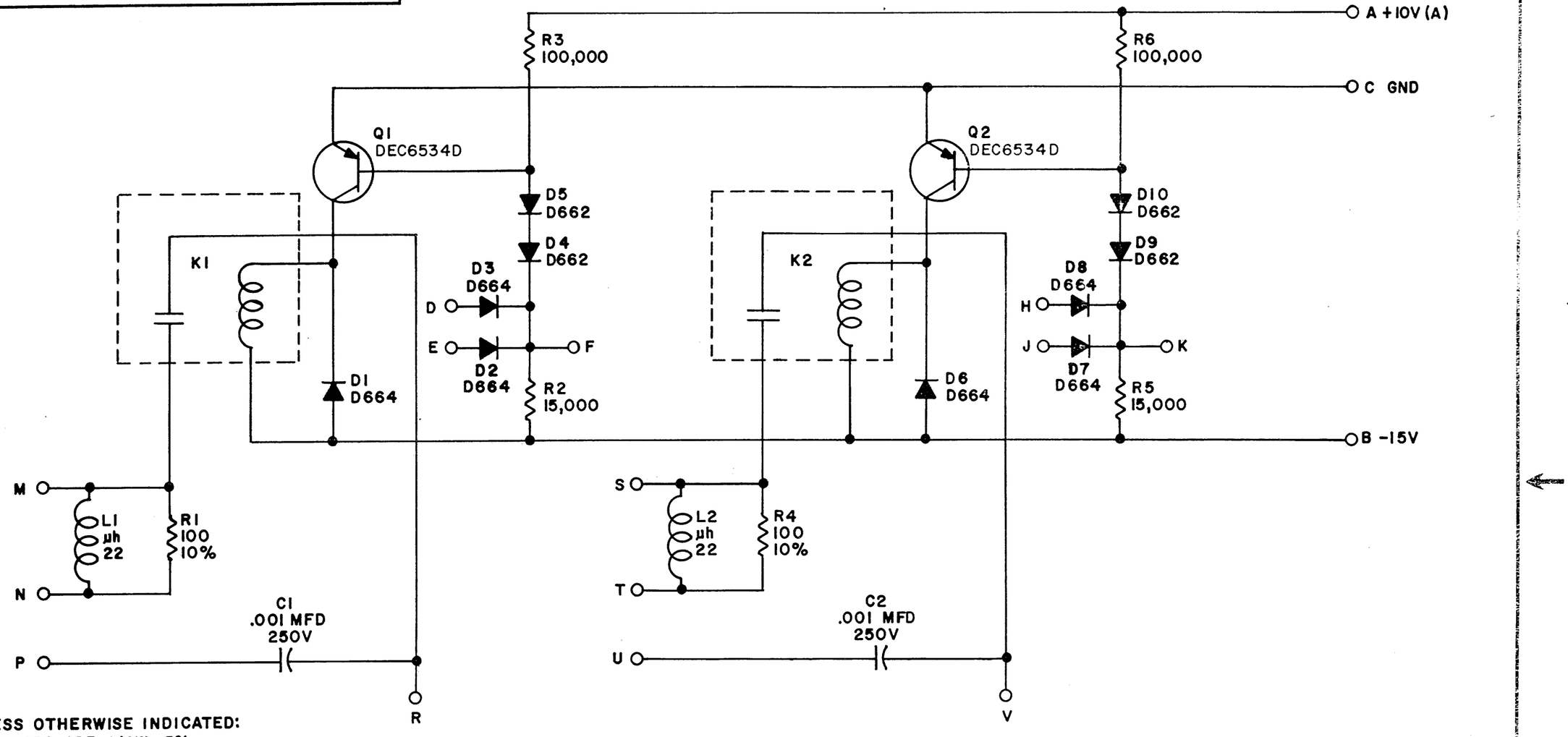

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W, 5%
K1 & K2 ARE WHEELOCK, 262-2A-X1, 12V DC
L1 & L2 ARE ESSEX, RFC-L, 10%

PARTS LIST A-PL-W800-0-0

REVISIONS	CHK	CHG NO.	REV.
	DAW	4612	2
	REV. & REDR	6405	C
		7028	D

DRN. H.W. PORTER	DATE 1-14-65	
CHK'D N. PERRYMAN	DATE 1-15-65	
ENG. D.A.WHITE	DATE 1-15-65	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534D	MPS6534		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
RELAY W800

SIZE	CODE	NUMBER	REV.
B	CS	W800-0-1	D

PRINTED CIRCUIT REV. B

DIST.

DEC FORM NO.
DRB 102

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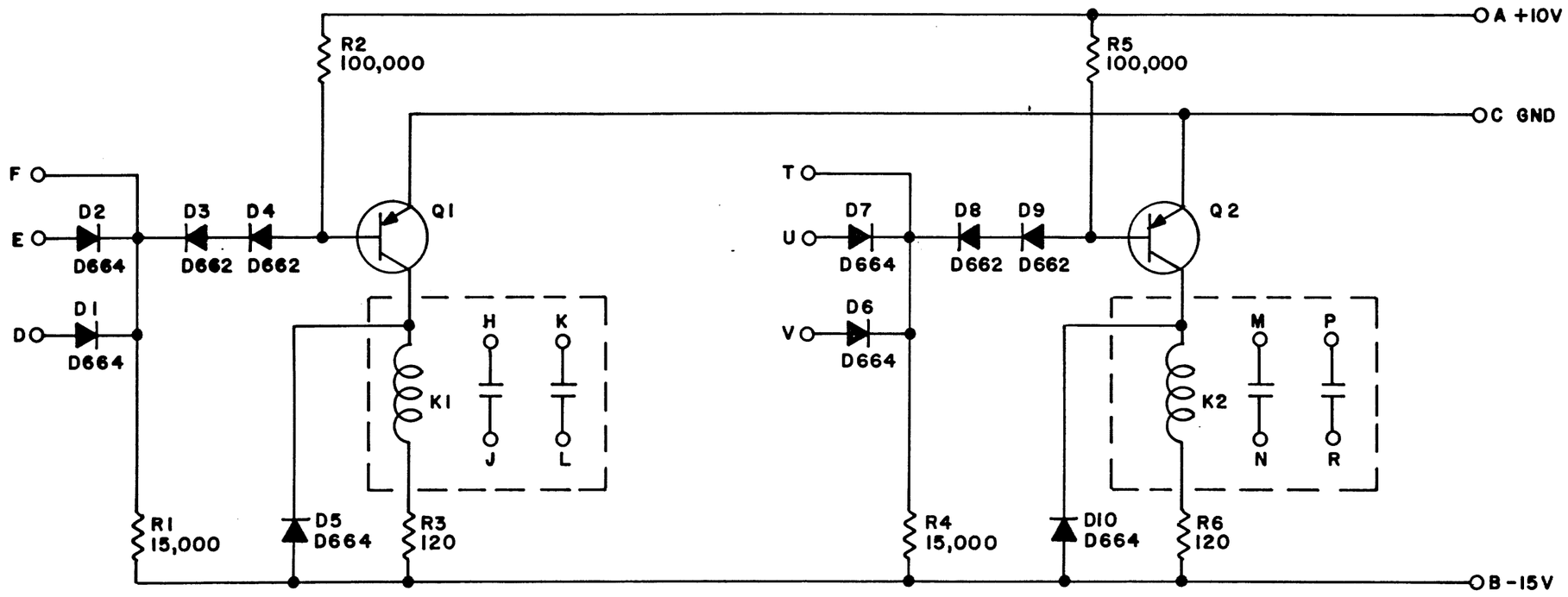

UNLESS OTHERWISE INDICATED:
RESISTORS ARE 1/4W; 10%
RELAYS ARE WHEELOCK 268-2A-12
TRANSISTORS ARE DEC6534D

PARTS LIST A-PL-W808-0-0

REVISIONS	REV.	CHG NO.	CHK
	A	6428	
	B	6892	

DRN. M. Haller	DATE 2-17-67	
CHK'D	DATE 2/22/67	
ENG. J. Andrews	DATE 2/22/67	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC6534D	MPS6534		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: RELAY WE 08

SIZE	CODE	NUMBER	REV.
B	CS	W808-0-1	B

PRINTED CIRCUIT REV. B

DEC FORM NO. DRB 102

PINK DIST. 324 434 435

SIZE	CODE	NUMBER	REV.
B	CS	W841-0-1	C

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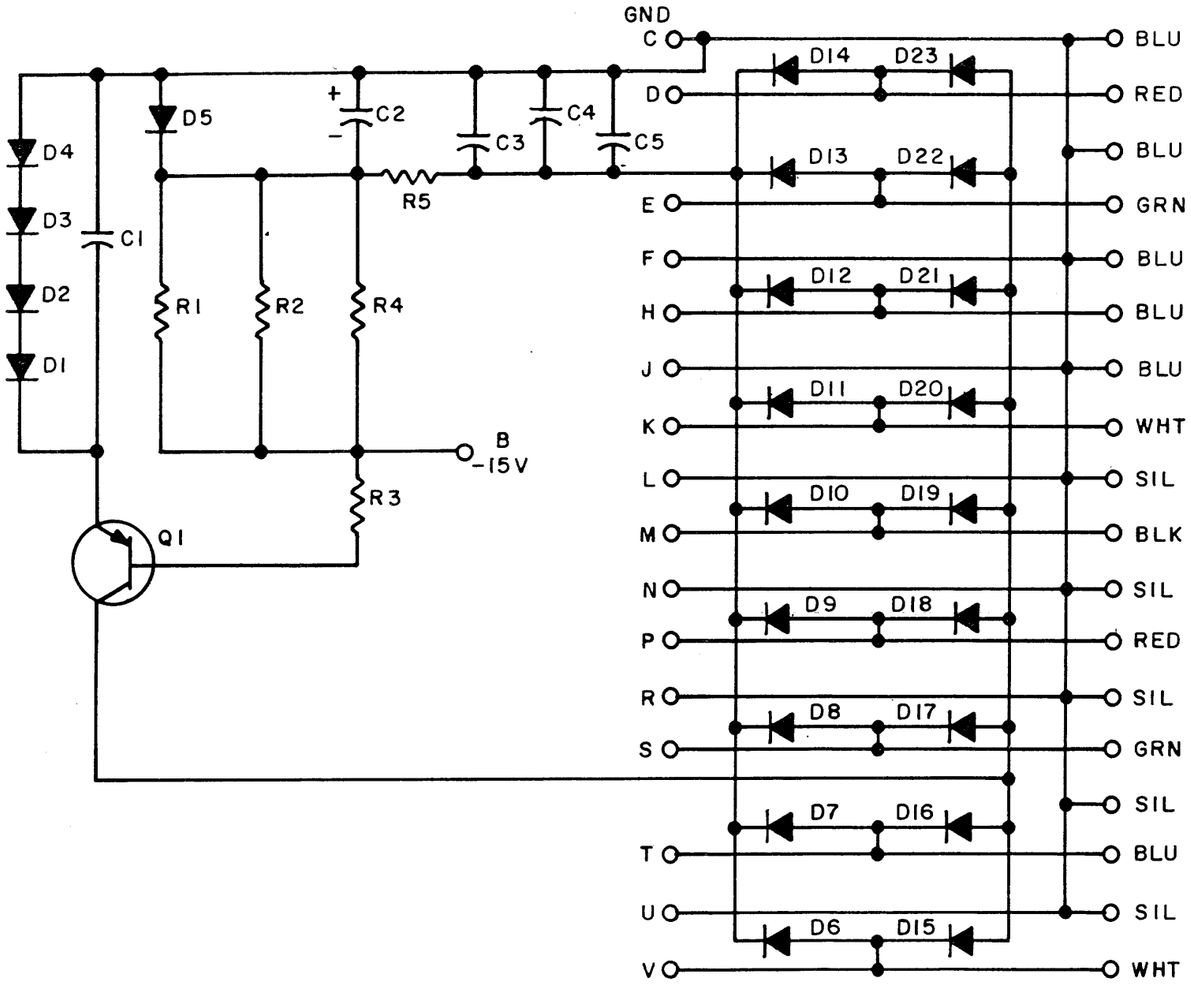

Q1	TSTR. DEC6534B OR TSTR. DEC3638B	15-03409-01 15-02979
R5	RES. 22 1/4W 5% CC	13-01969
R1 THRU R4	RES. 1.5K 1/4W 5% CC	13-00391
D6 THRU D23	DIO. D664	11-00114
D1 THRU D5	DIO. D662	11-00113
C1,C3,C4,C5	CAP. .01MFD 100V 20% DISC	10-01610
C2	CAP. 3.9MFD 10V 10% S. TANT	10-00064
	PARTS LIST	A-PL-W841-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO.

PARTS LIST

REVISIONS				
REV.	A	B	C	
CHG NO.	6913	00001	00002	
CHK	Paul	WM	MM	

DRN.	M.HALLER	DATE 12-12-67
CHK'D		DATE
ENG.	C.S.FISK	DATE 12-12-67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	IN645		
D664	IN3606		
DEC3638B	2N3638		
DEC6534B	MPS6534		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: CABLE TERMINATOR W841

SIZE	CODE	NUMBER	REV.
B	CS	W841-0-1	C

PRINTED CIRCUIT REV. C

DEC FORM NO. DRB 102

PINK DIST 324 434 933

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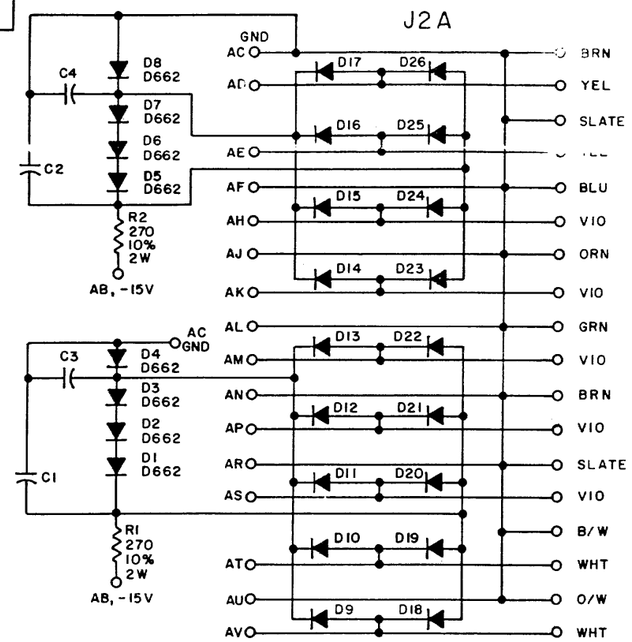
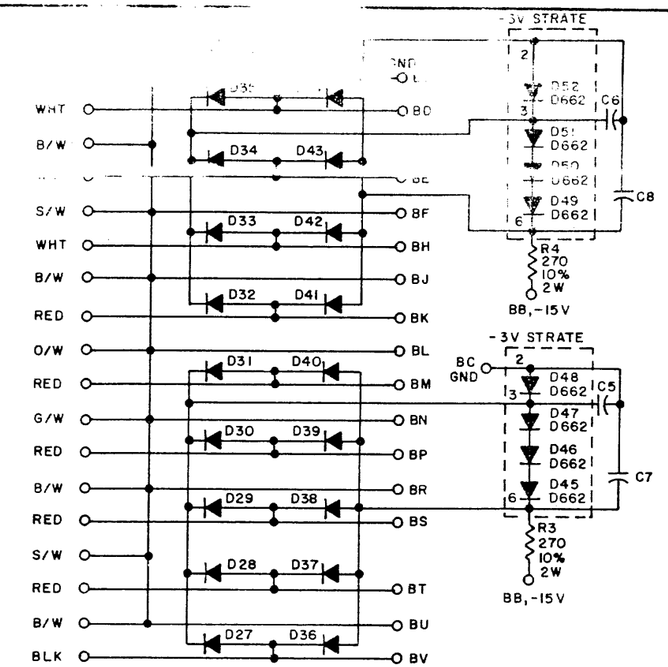
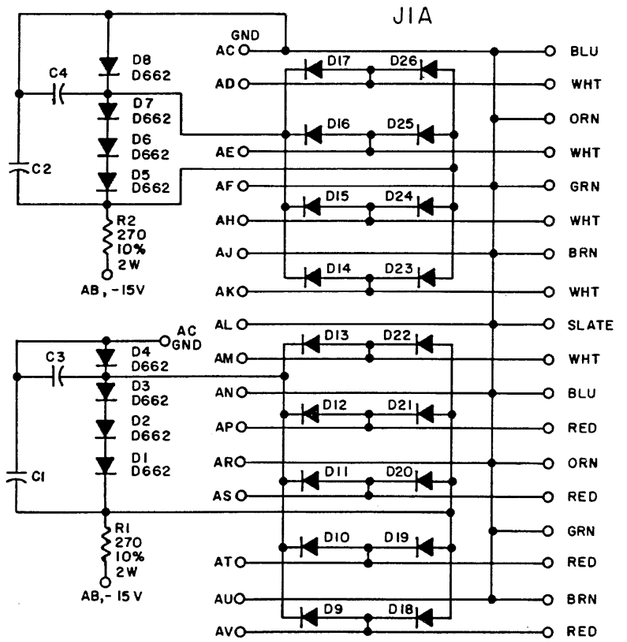
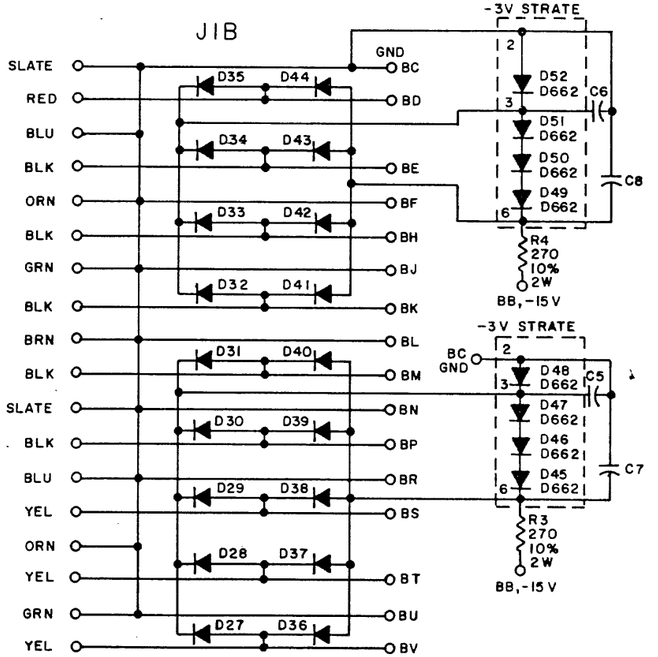




J1





UNLESS OTHERWISE INDICATED:
DIODES ARE D664
CAPACITORS ARE .01 MFD,100V,20%

REVISIONS	CHK	CHG NO.	REV.
		5906	A
		00001	D

DRN. M. Waller	DATE 11-2-66	
CHK'D R. SILVERMAN	DATE 11-4-66	
ENG. R. CAJOLET	DATE 11-4-66	
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D662	1N645		
D664	1N3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE I.O. CONNECTOR W850

SIZE	CODE	NUMBER	REV.
C	CS	W850-0-1	D

PRINTED CIRCUIT REV. C D

SIZE C CODE CS NUMBER W850-0-1 REV. D

DEC FORM NO. DRC 102

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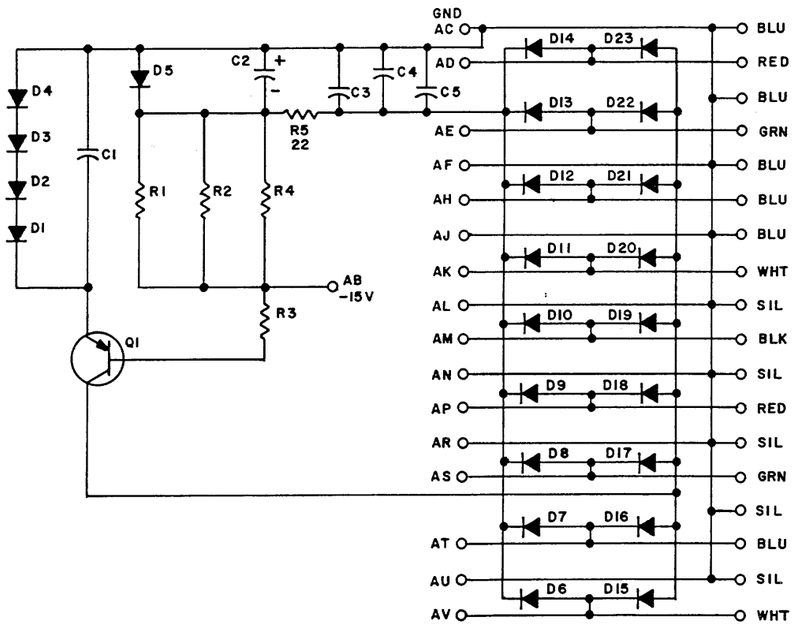

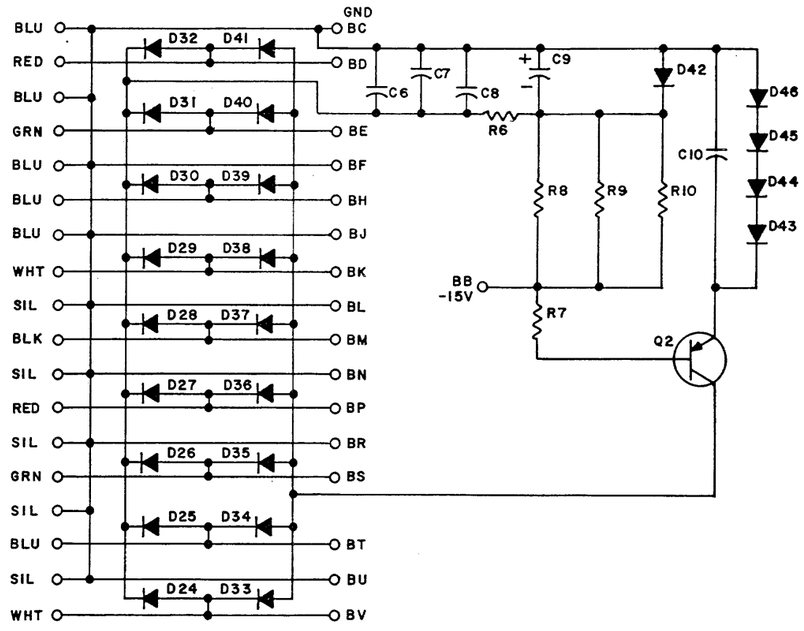

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
	PARTS LIST	A-PL-W851-0-0
C1, C3-C8, C10	CAP. .01MFD 100V 20% DISC	1001610
C2, C9	CAP. 3.9MFD 10V 20% S.TANT	1000064
D1-D5, D42-D46	DIODE D662	1100113
D6-D41	DIODE D664	1100114
R5, R6	RES. 22 1/4W 5% CC	1301969
R1-R4, R7-R10	RES. 1.5K 1/4W 5% CC	1300391
Q1, Q2	TRANSISTOR DEC3638B OR DEC6534D	1502979 1503409-00

PARTS LIST

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
DEC6534D	MPS6534		
DEC3638B	2N3638		
D662	IN645		
D664	IN3606		

REVISIONS	CHK	CHG NO.	REV.
		8914	B
		00001	C
		00003	D

DRN. M. Waller	DATE	7-25-67
CHK'D	DATE	7/31/67
ENG.	DATE	8-7-67
PROD.	DATE	

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: PDP-10 BUS CONNECTOR BOARD W851

SIZE	CODE	NUMBER	REV.
C	CS	W851-0-1	D

PRINTED CIRCUIT REV. D E

DEC FORM NO. DRC 102

DIST. 324 434 435 5571

P N +

REV. D | NUMBER W851-0-1 | SIZE C | CODE CS

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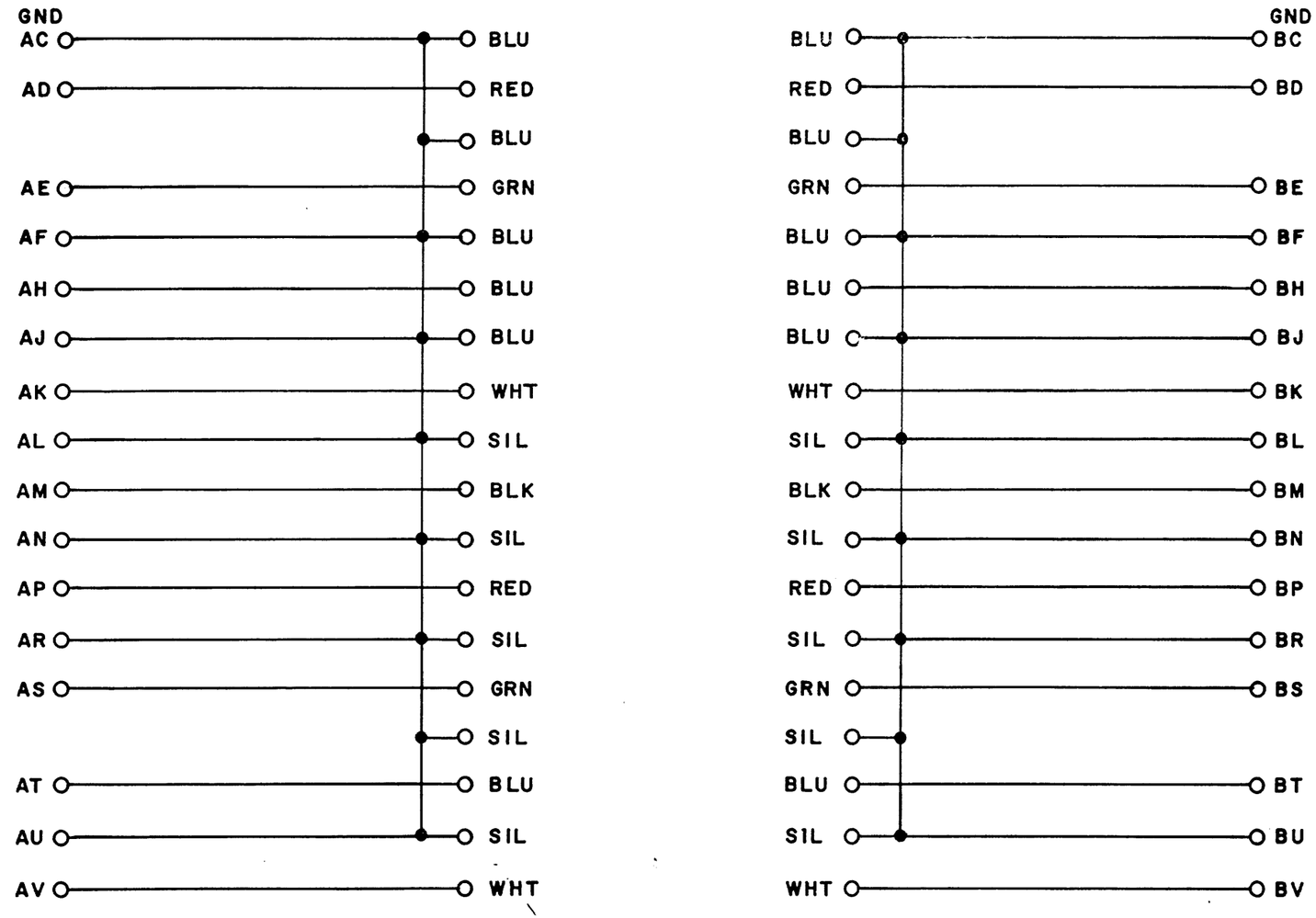

USE THE ETCH BOARD OF THE W851

REVISIONS				
REV.	A	B	C	
CHG NO.	6773	6971	00001	
CHK			MM	

DRN.	M. Keller	DATE 7-28-67
CHK'D		DATE 8/24/67
ENG.		DATE 8/24/67
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: CONNECTOR W852

SIZE	CODE	NUMBER	REV.
B	CS	W852-0-1	C

PRINTED CIRCUIT REV. B C D E

DEC FORM NO. DRB 102

5 PINK

DIST. 324 434 435 359

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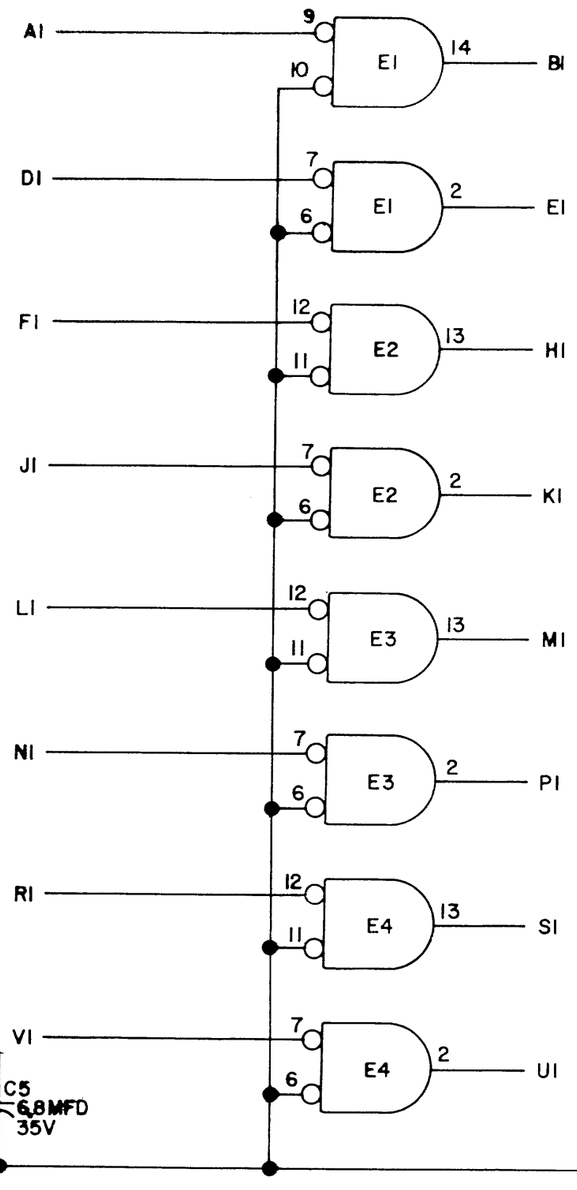
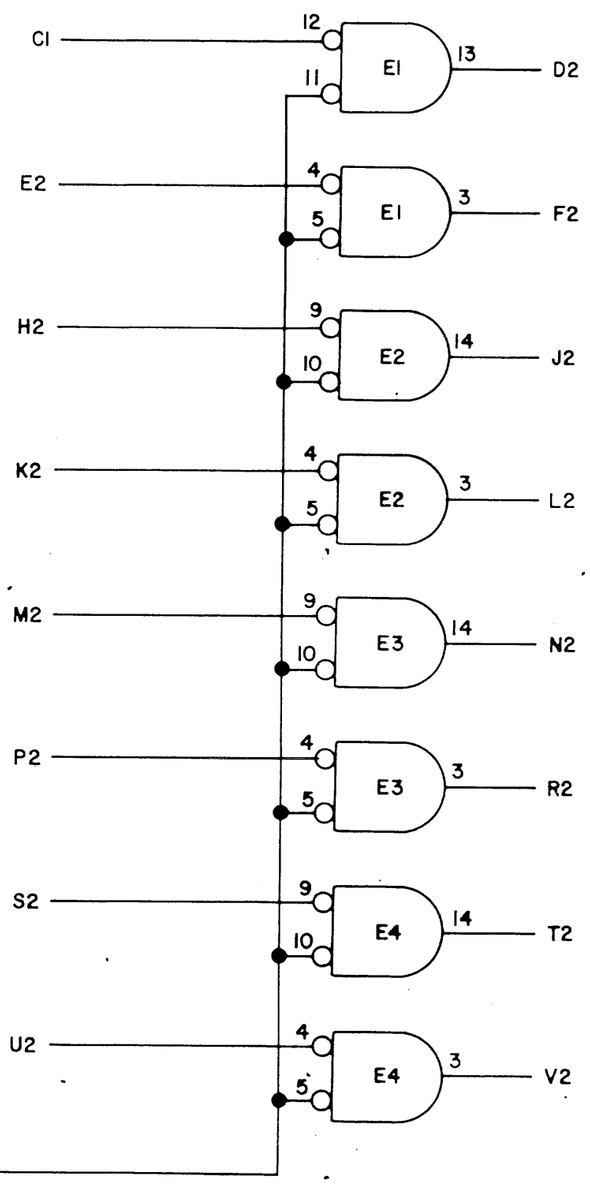
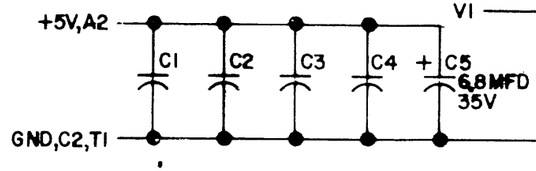
NOTE:
DEC 8640'S WERE PHASED IN AS 380 REPLACEMENTS. ANY 380 FAILURES SHOULD BE REPLACED BY 8640'S.





UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01MFD, 100V, 20%
IC'S ARE DEC 8640
PIN 1 ON EACH IC=GND
PIN 8 ON EACH IC=+5V



REVISIONS	CHK	CHG NO.	REV.
	S.K.	00001	A
	RS	00002	B
		00003	C

L. LONDON 11/1/69

DRN.	G. Alley	DATE 11-18-69
CHK'D	T. Hitchcock	DATE 1-7-70
ENG	P. E. Jansen	DATE 3/11/70
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE UNIBUS RECEIVERS
M784

SIZE	CODE	NUMBER	REV
B	CS	M784-0-1	C

PRINTED CIRCUIT REV. A B C

DEC FORM NO. DRB 102

MS641-P4

DIST. 374, 434, 42?

Port

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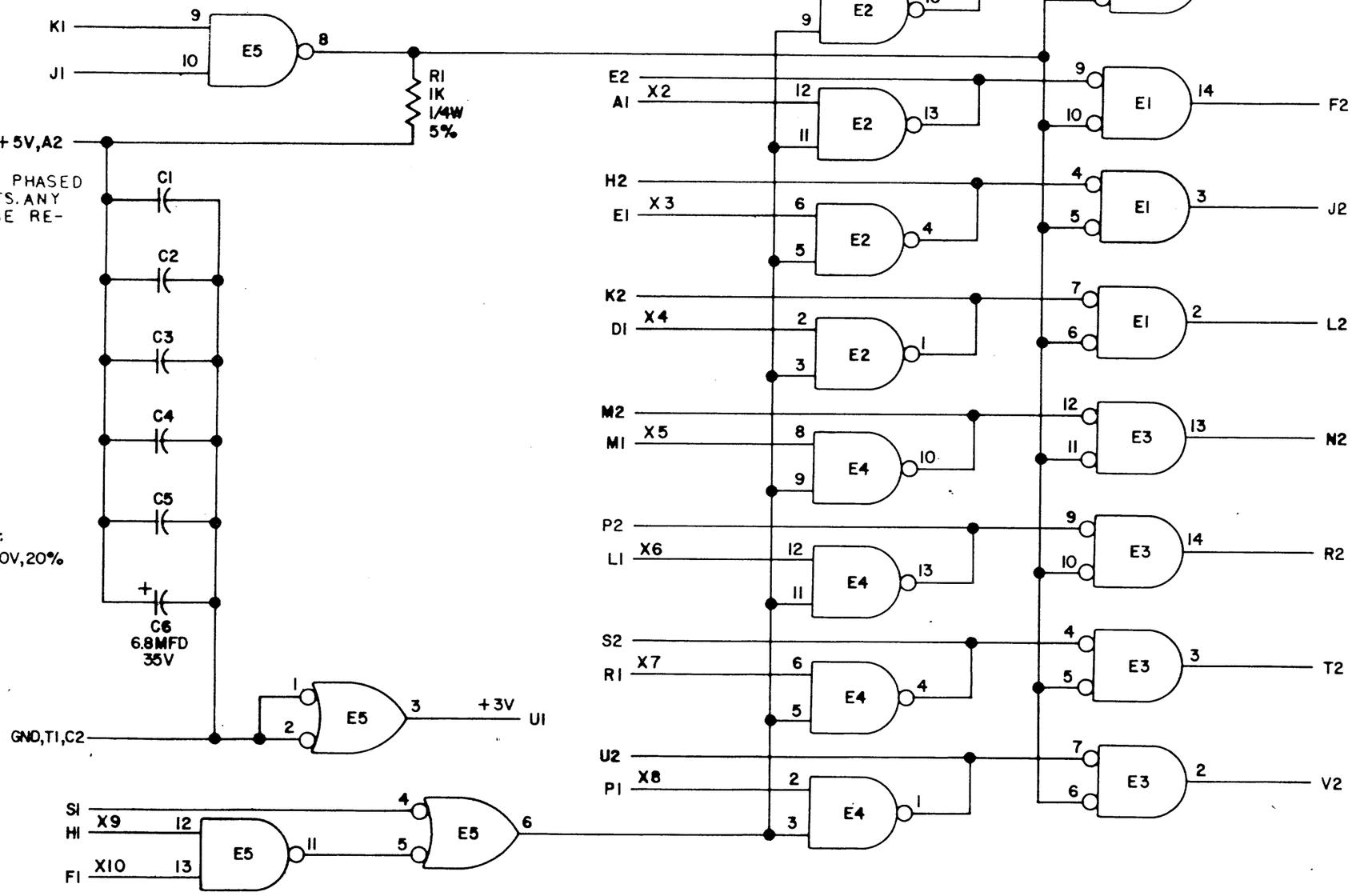

NOTE:
DEC 8640'S WERE PHASED IN AS 380 REPLACEMENTS. ANY 380 FAILURES SHOULD BE REPLACED BY 8640'S.

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01MFD, 100V, 20%
E1, E3 ARE DEC 8640
E2, E4 ARE DEC8881
E5 IS DEC7400

PIN 1 ON E1, E3 = GND
PIN 8 ON E1, E3 = +5V

PIN 7 ON E2, E4, E5 = GND
PIN 14 ON E2, E4, E5 = +5V

REVISIONS	REV.	CHG NO.	CHK
	A	00001	
	B	00003	

DRN. R. Pitney	DATE	11-1969
CHK'D T. Nathanson	DATE	1-7-70
ENG. W. E. Johnson	DATE	3/11/70
PROD.	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE UNIBUS TRANCEIVERS M785

SIZE	CODE	NUMBER	REV
B	CS	M785-0-1	B

PRINTED CIRCUIT REV. A B

DEC FORM NO. DRB 102

5 PINK DIST. 324, 431, 4353

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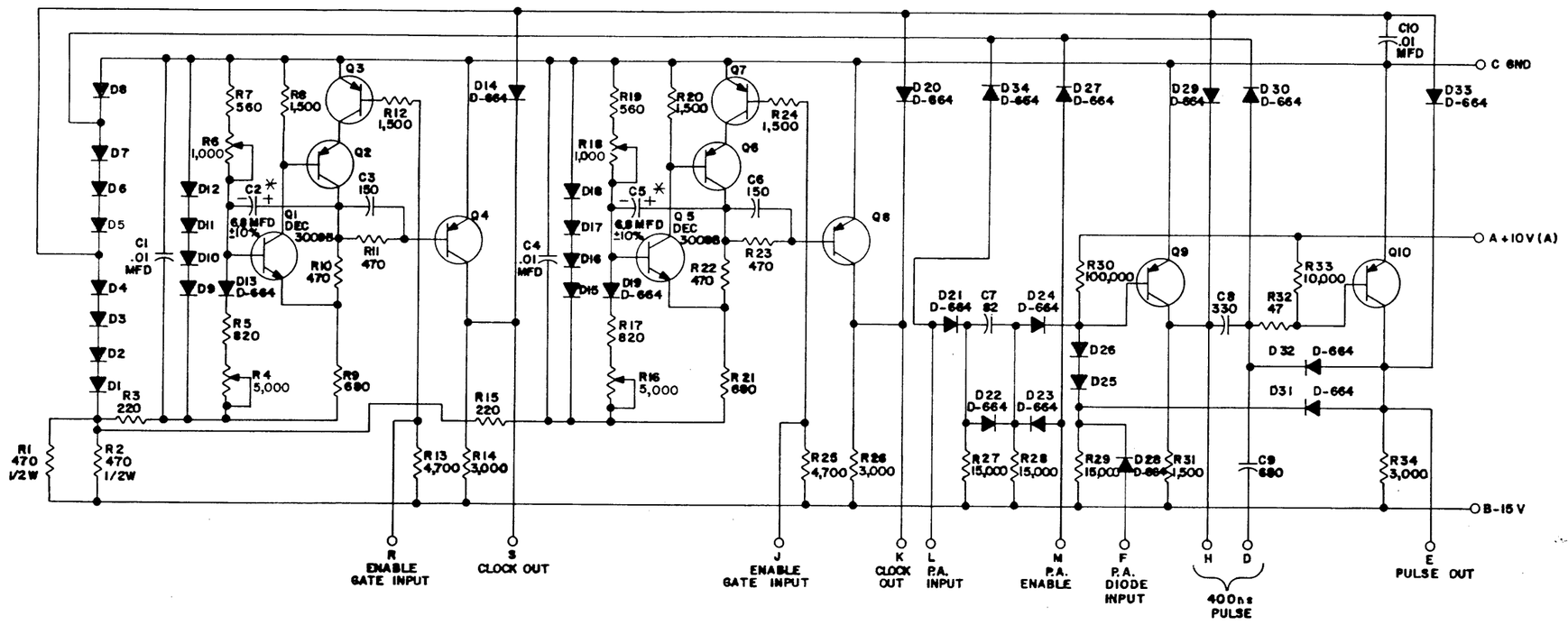

* NOTE: C2, C5 ARE CHANGED IN R451-YA VERSION TO: 3.9 MFD 10V 10% P/N 10-00064-00

UNLESS OTHERWISE INDICATED:
TRANSISTORS ARE DEC 3639
CAPACITORS ARE MMFD.
RESISTORS ARE 1/4W, 5%
DIODES ARE D-662
R4 & R16 ARE DEC1309150-04
R6 & R18 ARE DEC 1309150-03

PARTS LIST IS A-PL-R451-0-0

USE THE ETCH BOARD OF THE R450

REVISIONS			
CHK	CHG NO.	REV.	
	8188	A	
	8454	B	
	00001	C	
	00002	D	

DRN.		DATE 12-14-66
CHK'D		DATE 12/15/66
ENG.		DATE 12/16/66
PROD.		DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639	2N3639		
DEC30088	2N3009		
D662	IN645		
D664	IN3606		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: VARIABLE CLOCK R451

SIZE	CODE	NUMBER	REV
C	CS	R451-0-1	D

PRINTED CIRCUIT REV. E

SIZE C | CODE CS | NUMBER R451-0-1 | REV. D

DIST. 324,1134,435,359 PINK

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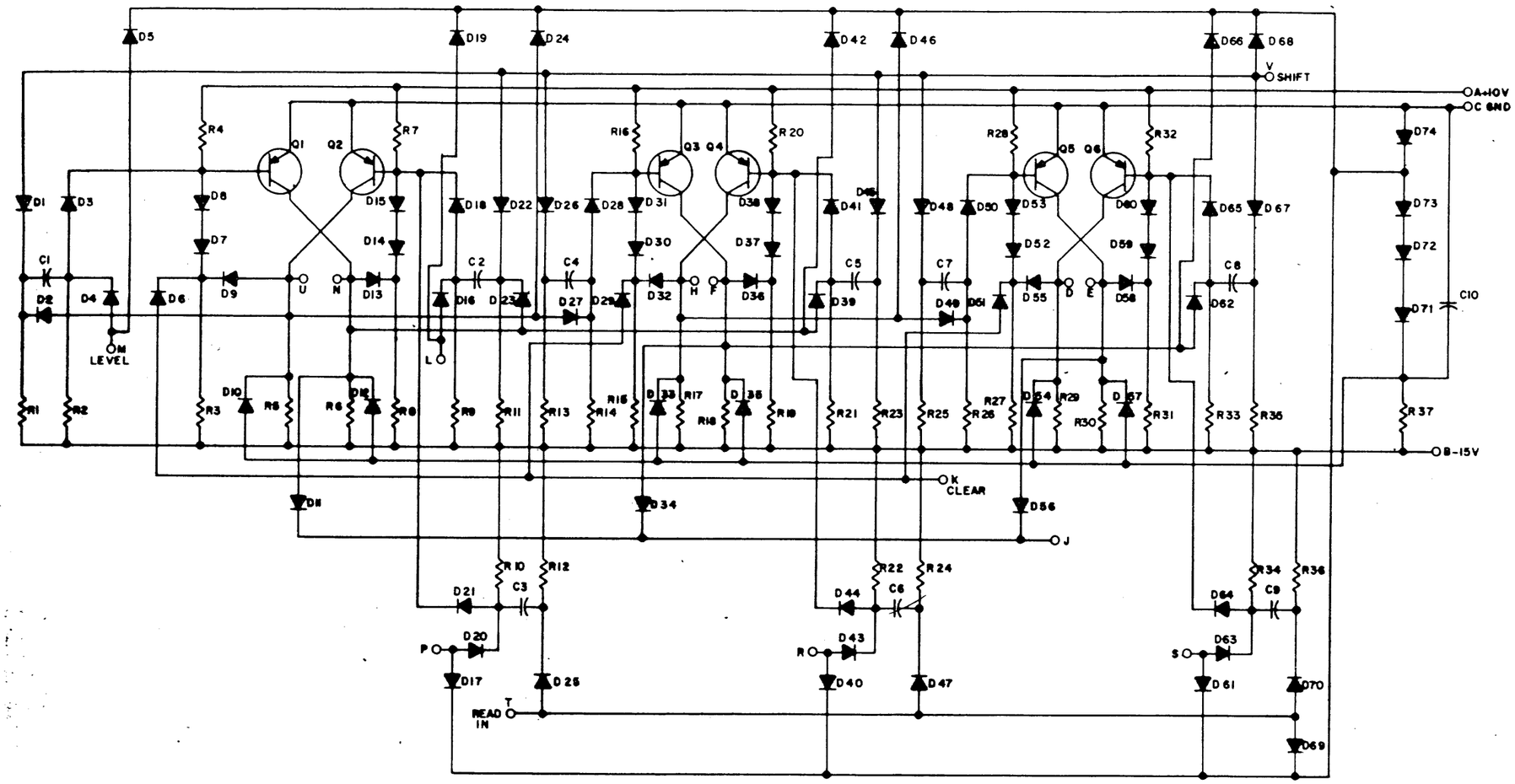

Q1 - Q6	TRANSISTOR DEC3639C	1802762-01
R37	RES. 1.5K 1/4W 5% CC	1300391
R5,R6,R17,R18,R29,R30	RES. 3K 1/4W 5% CC	1300432
R4,R7,R16,R20,R28,R32	RES. 100K 1/4W 5% CC	1302466
R1-R3,R8-R15,R19,R21-R27,R31,R33-R36	RES. 15K 1/4W 5% CC	1300466
D52,D53,D59,D60,D71-D74 D7,D8,D14,D15,D30,D31,D37,D38,	DIODE D662	1100113
D39-D51,D54-D58,D61-D70 D1-D6,D9-D13,D16-D29,D32-D36,	DIODE D664	1100114
C10	CAP. .01MFD 100V 20% DISC	1001610
C1-C9	CAP. 82 MMF 100V 5% D.M.	1000015
	PARTS LIST	A-PL-R220-0-0
REFERENCE DESIGNATION	DESCRIPTION	PART NO

PARTS LIST

DRN. I. HANN	DATE 6-17-66	
CHK'D R. SILVERMAN	DATE 6-18-66	
ENG. E. DE CASTRO	DATE 6-18-66	
PROD	DATE	

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC3639C	2N3639		
D992	IN645		
D994	IN3606		

EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE: 8 BIT SHIFT REGISTER R220

SIZE	CODE	NUMBER	REV
C	CS	R220-0-1	P

PRINTED CIRCUIT REV. L

PINE DIST. 324 434 435 359

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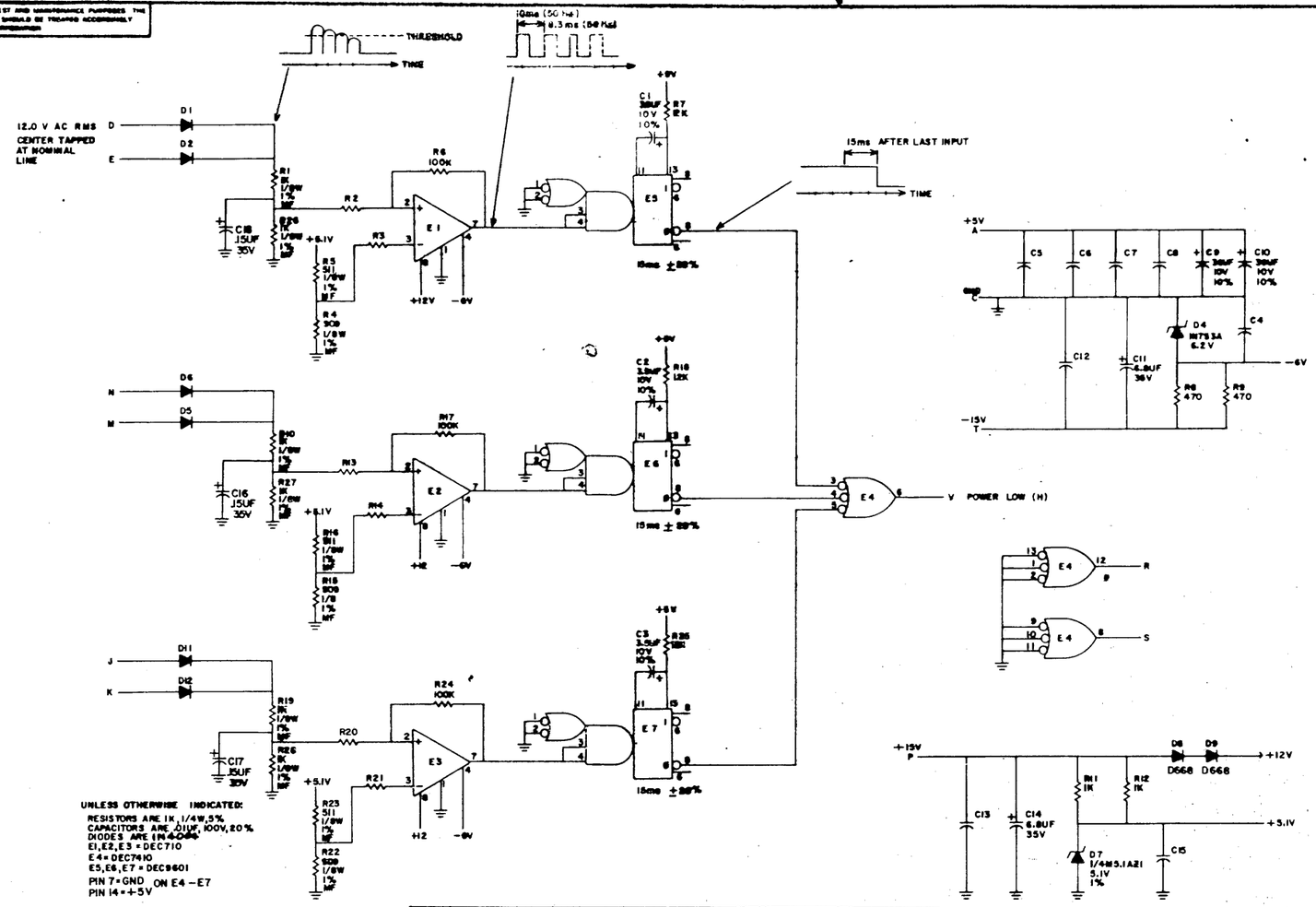

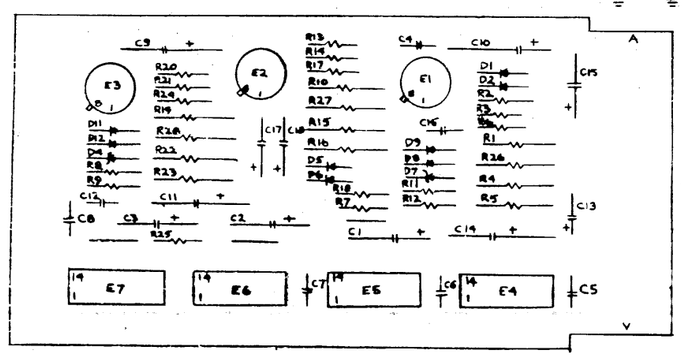

ITEM NO.	DEC PART NO.	DESCRIPTION	QTY
29	9009185	INSULATED JUMPER	3
28	1003821	RES. 1K 1/4W 5%	6
27	1303811	RES. 511, 1/8W, 1%	3
26	1302685	RES. 909, 1/8W, 1%	3
25	1300688	RES. 12K 1/4W 5%	3
24	1002180	CAP. .1UF 35V 20%	3
23	1102161	DIODE D668	2
22	9008337-03	HANDLE, FLIP CHIP - WHITE	1
21	9006732	EYELET 0.086in	2
20	1908872	I.C. DEC 9601	3
19	1905480	I.C. DEC 710	3
18	1905576	I.C. DEC 7410	1
15	1302466	RES. 180K 1/4W 5%	3
13	1300365	RES. 1K 1/4W 5%	8
12	1300316	RES. 470 1/4W 5%	2
11	1105871	DIODE 1/4W 5.1 AE1 5.1V 1%	1
10	1102421	DIODE 1N753A 6.2V	1
9	1105796	DIODE 1N4004-6	6
8	1001610	CAP. .01UF 100V 20% DISC	8
7	1000076	CAP. 39UF 10V 10% S.TANT	2
6	1005308	CAP. 6.8UF 35V 20% S.TANT	2
5	1000064	CAP. 3.9UF 10V 10% S.TANT	3
4	5009297	ETCHED CIRCUIT BOARD	1
3	B-MI-W509-0-6	MODULE ECO HISTORY	
2	C-AH-W509-0-5	EDGE/DRILLING HOLE LAYOUT	
1	K-CO-W509-0-4	X-Y COORDINATE HOLE LOCATION	

PARTS LIST

* E(TWO) 3606 IN SERIES

TRANSISTOR & DIODE CONVERSION CHART			
DEC	EIA	DEC	EIA
1N4004	2AM6	1N753 6.2V	EA96
1N5615 A81	5082		
5082 *			

EQUIPMENT CORPORATION

TITLE: 3 PHASE LOW AC VOLTAGE DETECTOR W509

SIZE B | CODE CS | W509-0-1 | REV J

PRINTED CIRCUIT REV

REVISIONS

SYMBOL	DESCRIPTION	DATE	APPROVED
J	ADDED E	1/9/71	J.F.A.
H	CHANGED	1/7/71	J.F.A.
G	ADDED	1/7/71	J.F.A.
F	CHANGED	1/7/71	J.F.A.
E	ADDED	1/7/71	J.F.A.
D	CHANGED	1/7/71	J.F.A.

DRAWN J.F.A. 1/9/71

CHECKED E. Cooper 1/9/71

APPROVED J.F.A. 1/9/71

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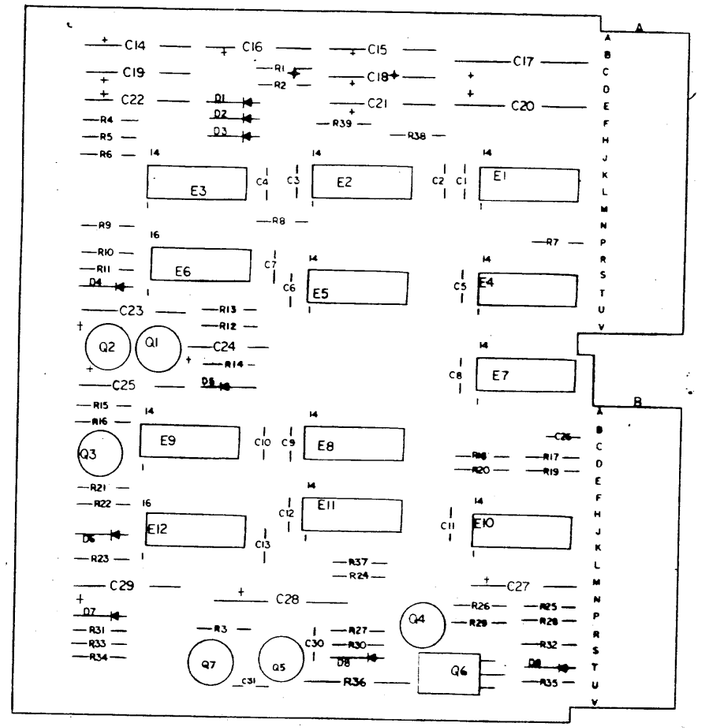

QTY.	REF DESIGNATION	DESCRIPTION	DEC PART NO.	LINE NO.
		PARTS LIST		
1		PRINTED CIRCUIT BOARD	5009129	4
1		MODULE ECO HISTORY	B-MI-M890-0-6	3
1		ASSY/DRILLING HOLE LAYOUT	D-AD-M890-0-5	2
1		X-Y COORDINATE HOLE LOCATION	K-CO-M890-0-4	1
1	C24	CAP. 3.9UF 10V 10% TANT	1000064	5
12	C4, 15, 16, 18, 19, 21-23, 27, 29, 35	CAP. 39UF 10V 10% TANT	1000076	6
15	C1 thru C13, 30, 31	CAP. .01UF 100V 20% DISC	1001610	7
1	C26	CAP. .05UF 25V -20% +80% DISC	1001774	8
2	C17, 20	CAP. 47UF 20V 10% TANT	1004814	9
1	C28	CAP. 220UF 8V 20% TANT	1005626	10
8	D1 thru D8	DIODE D664	1100114	11
1	D9	DIODE 1N4001	1102942	12
3	R3, 18, 26	RES. 3.9K ¼W 5%	1300444	18
4	R10, 13, 14, 23	RES. 10K ¼W 5%	1300479	19
3	R6, 7, 22	RES. 12K ¼W 5%	1300488	20
8	R21,28,29,32,33,34,35,37	RES. 1.2K ¼W 5%	1301320	21
1	R2	RES. 180 ¼W 5%	1301322	22
5	R8, 19, 20, 38, 39	RES. 680 ¼W 5%	1301424	23
1	R30	RES. 820 ¼W 5%	1301775	24
1	R5	RES. 22K ¼W 5%	1301808	25
1	R36	RES. 390 1W 5%	1302384	26
1	R11	RES. 30K ¼W 5%	1302394	27
1	R31	RES. 47K ¼W 5%	1302177	28
5	Q1, 2, 3, 5, 7	TRANSISTOR DEC 3009B	1503100	29
1	Q4	TRANSISTOR DEC 6531	1509338	30
1	Q6	TRANSISTOR DEC 4920	1509495	32
2	E1, 5, 9	I.C. DEC 7474	1905547	32
1	E11	I.C. DEC 7450	1905580	34
2	E4, 10	I.C. DEC 7400	1905575	33
2	E2, 7	I.C. DEC 7402	1909004	35
3	E3, 5, 9	I.C. DEC 9601	1909373	36
2	E6, 12	I.C. DEC 74123	1910436	37
4		EYELET	9006732	38
1		HANDLE, FLIP CHIP - MAGENTA	9008359-06	39
2		SCREW, NYLON 4-40 x 1/8	9004481-4	40
1		NUT, NYLON 4-40	9007992	41

SHEET 1 OF 2

REVISIONS			
CHN	CHG NO	REV	DATE

DRN Roger Doucette DATE 5/13/71
CHKD [signature] DATE 5/27/71
ENG [signature] DATE 5/27/71
MGR DATE

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA

DIGITAL EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE MOTION CONTROL

SIZE	CODE	NUMBER	REV
D	CS	M890-0-1	K

PRINTED CIRCUIT REV H

DIST: 224, 434, 435

DEC FORM NO. 900 116

THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY
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REWIND STATUS H AAI
REWIND BRK H AJI
TA H ALI
REWIND BRK L AKI
FORWARD L AD2
OFF L BL1
LOAD PULSE L BHI
MOTION H AV2
LOCAL H AUI
BRK REL L BBI
UFS L BM2
LFS H BCI

TSL AMI
FOR H ABI
TDL ANI
REWIND CAP H AHI
REWIND H AP2
PCLR L AT2
PCLR H ASI
LD ON LINE AFI
TRANS SETTLING DOWN ARI
RUNNING H API
RUNNING L BE2
READY L BEI
RELAY ENBL H BD2
RELAY ENBL L BDI
MTR PWR RELAY COIL BS2
PWR COM BT2
CLR RLY ENBL L BJI
VACUUM ON L BJ1
VACUUM ON H BF2
FORCE BRK ON H BP2
FORCE BRK ON L BN2
REEL MTR ENBL L BV1
REEL MTR ENBL H BV2
+18V BU2
FAIL H BL2
FAIL L BKI
LFS L BAI

UNLESS OTHERWISE INDICATED:
CAPACITORS ARE .01UF
DIODES ARE D664
RESISTORS ARE 1.2K
TRANSISTORS ARE DEC 3009B
DEC 7400 = E4, E10 PIN 7 = GND, PIN 14 = +5V
DEC 7402 = E2, E7 " "
DEC 7450 = E11 " "
DEC 7474 = E1, E8 " "
DEC 9601 = E3, E5, E9 " "
DEC 74123 = E6, E12 PIN 8 = GND, PIN 16 = +5V

+5V, AA2, BA2
GND, AC2, AT1, BC2, BT1
-15V, AB2, BB2

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
DEC 2920		IN4001	SA6F
DEC 3009B	2N3009	664	IN3606
DEC 653	MPS A51		

EQUIPMENT CORPORATION — MAYNARD, MASSACHUSETTS

TITLE: MOTION CONTROL
SIZE D | CODE 03 | NUMBER M890-0-1 | REV K
PRINTED CIRCUIT REV H

SHEET 2 OF 2