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W130 PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	R1,R3,R5,R7,R9,R11,R13,R15,R17,R19,R21,R23,R25,R27,R29,R31,R33,R35,R37,R39,R41,R43,R45,R47,R49,R51,R53,R55	15K, 1/4W, 5%	RES. 1300496	28
2	R2,R4,R6,R8,R10,R12,R14,R16,R18,R20,R22,R24,R26,R28,R30,R32,R34,R36,R38,R40,R42,R44,R46,R48,R50,R52,R54,R56	470, 1/4W, 5%	RES. 1300316	28
3	Q1-Q56	DEC 3009B TRANSISTOR	1503100	56
4	PI	H807 BLOCK, CONNECTOR	1209123	1

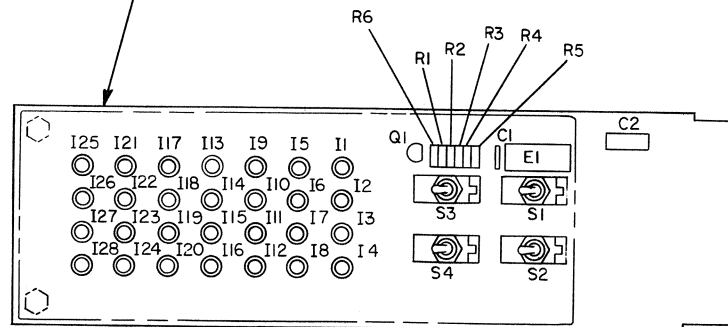
W131 PARTS REFERENCE

ITEM NO	DRAWING REFERENCE	DESCRIPTION	PART NUMBER	QUANTITY
1	E1	DEC 7400N I.C.	1905575	1
2	C1	.01 MFD, 100V, 20% DC CAP.	1001610	1
3	C2	6.8 MFD, 35V, 20% ST. CAP.	1000067	1
4	R1,R2,R3,R4,R5	3K, 1/4W, 5%	RES. 1300432	5
5	R6	330, 1/4W, 5%	RES. 1300295	1
6	Q1	DEC 3009B TRANSISTOR	1503100	1
7	I1-I28	LAMP HUDSON, BLUE *2309G	1209219	28
8	S1-S4	SWITCH, TOGGLE, SPST, 6AT-12	1201168	4

NOTES:

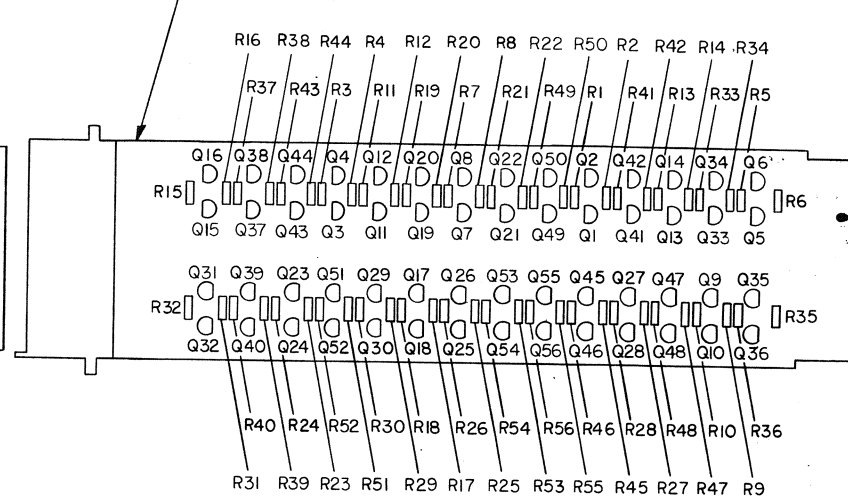
- THE KM11 IS A TWO MODULE (W130, W131) OPTION TO THE KA11 TO AID MAINTENANCE. THIS PREWIRED OPTION IS INSTALLED BY INSERTING THE W130 MODULE INTO LOCATION B02 AND INSERTING THE W131 MODULE INTO THE W130. NOTE THAT THE SWITCHES AND LIGHTS FACE TOWARD AND EXTEND BELOW THE CONSOLE. THE BOTTOM COVER MUST BE REMOVED WITH THE CHASSIS EXTERNAL TO THE CABINET.
- LABELS FOR THE INTERNAL MACHINE STATES LAMPS ARE NOTED ON THE W131 ETCH BOARD. SWITCHES PROVIDE A MANUAL CLOCK AND BUS RESPONSE AND ARE ACTIVE WHEN THE TOGGLE IS TOWARD THE NAME. NORMAL MACHINE OPERATION REQUIRES THAT ALL SWITCHES BE IN THE OFF POSITION.
- "M CLK ENABLE" AND "M CLK" PROVIDE A MANUAL CLOCK FOR THE KA11. "M CLK ENABLE" IS ACTIVATED WHILE THE PROCESSOR IS HALTED. EACH TOGGLE OF "M CLK" THEN STEPS THE PROCESSOR THROUGH THE SMALLEST PROCESSOR CLOCK INTERVALS, THE R/W STATES, THE NEXT HIGHEST CLOCK INTERVAL (S CLK) IS PROVIDED BY FOUR TOGGLES (2 COMPLETE SWITCH CYCLES) AND INDICATED BY THE R/W2 LAMP. R/W2 IS THE LAST (OR REST) R/W STATE IN A "S CLK" INTERVAL. NORMAL OPERATION IS RESUMED WHEN "M CLK" AND THEN "M CLK ENABLE" ARE RETURNED TO OFF.
- "NO TIME OUT" AND "SSYN" PROVIDE A MANUAL BUS RESPONSE TO THE PROCESSOR. IT IS USED WHEN OTHER DEVICES ARE NOT AVAILABLE. "NO TIME OUT" IS ACTIVATED, WHILE THE PROCESSOR IS HALTED, TO ELIMINATE AN ERROR TRAP ON MANUAL "SSYN" AT THE APPROPRIATE TIMES IN A BUS TRANSFER "SSYN" IS ACTIVATED AND DEACTIVATED.

W131 BOARD



COMPONENT PLACEMENT

W130 BOARD



PIN NOMENCLATURE

MODULE PROCESSOR

A B

FIRST USED ON OPTION/MODEL
PDPII

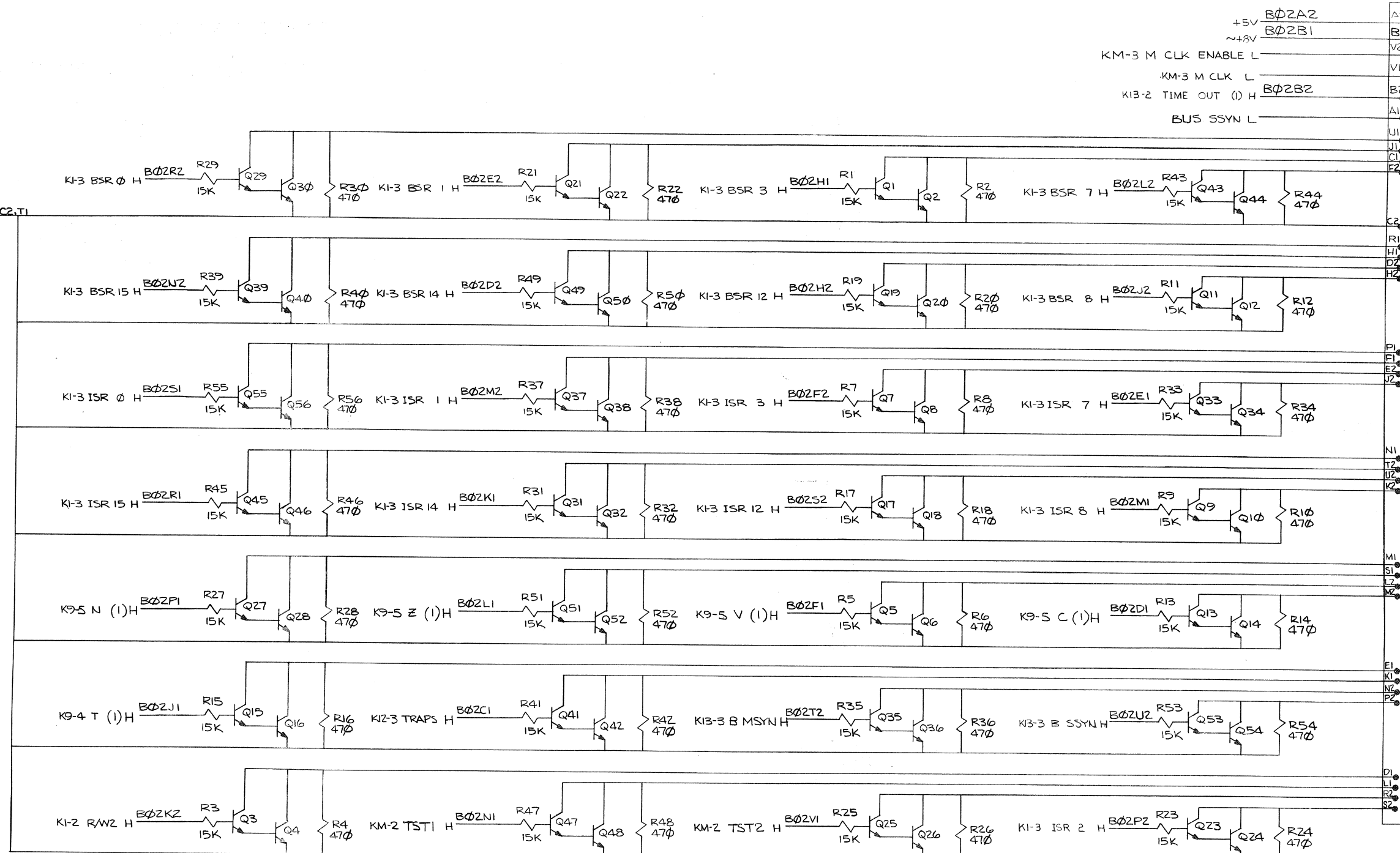
DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES
DECIMALS FRACTIONS ANGLES
± .005 ± 1/64 ± 0°30'
FINAL SURFACE QUALITY
REMOVE BURRS AND BREAK SHARP CORNERS
MATERIAL
FINISH

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
TITLE MAINTENANCE BOARD (1&2) KM-1			
SIZE/CODE NUMBER DBSKM11-0-MB			
SCALE 1/1			
SHEET 1 OF 3			

REVISIONS
CHANGE NO.
CHK

DEC FORM NO.
DRD 100

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CONNECTOR AT REAR OF MODULE
TO EXTEND MAINTENANCE BOARD
2, WIRING (KM-3).

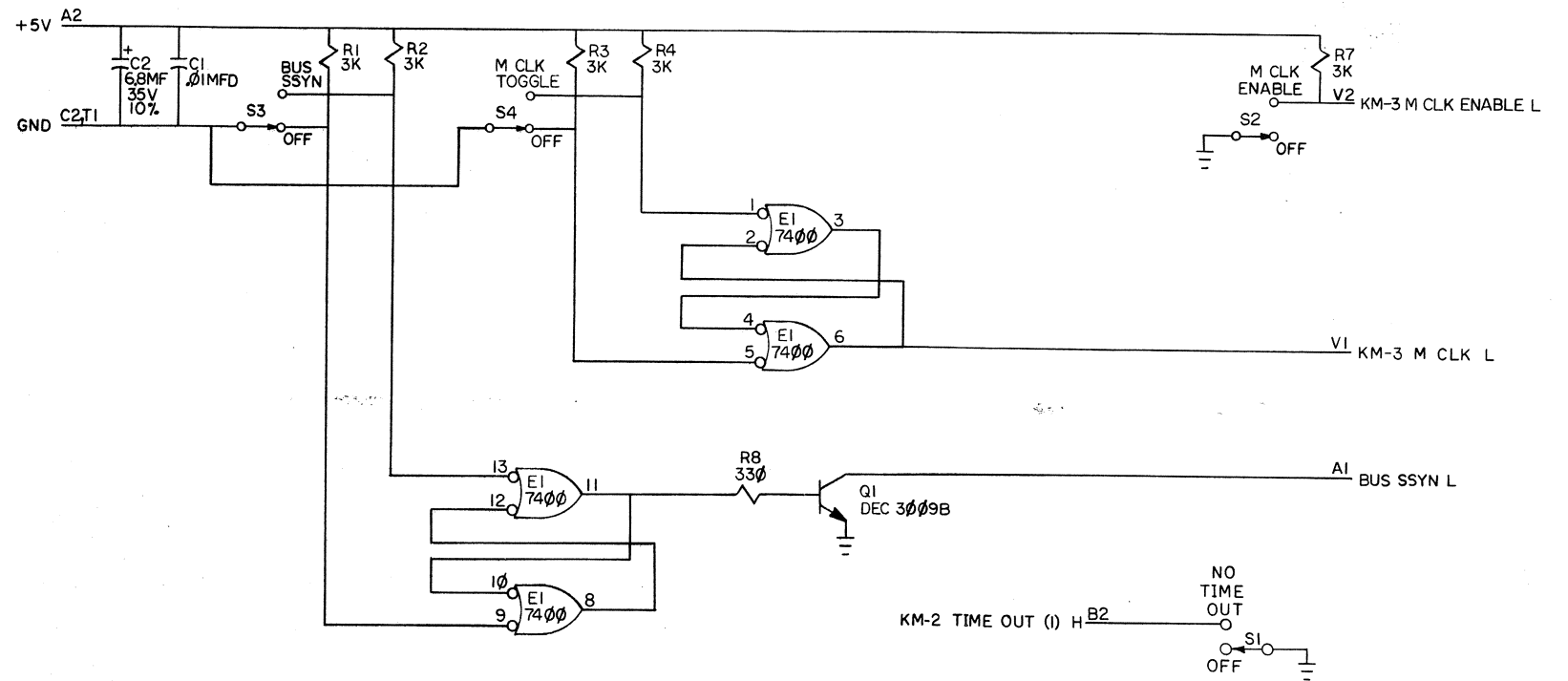
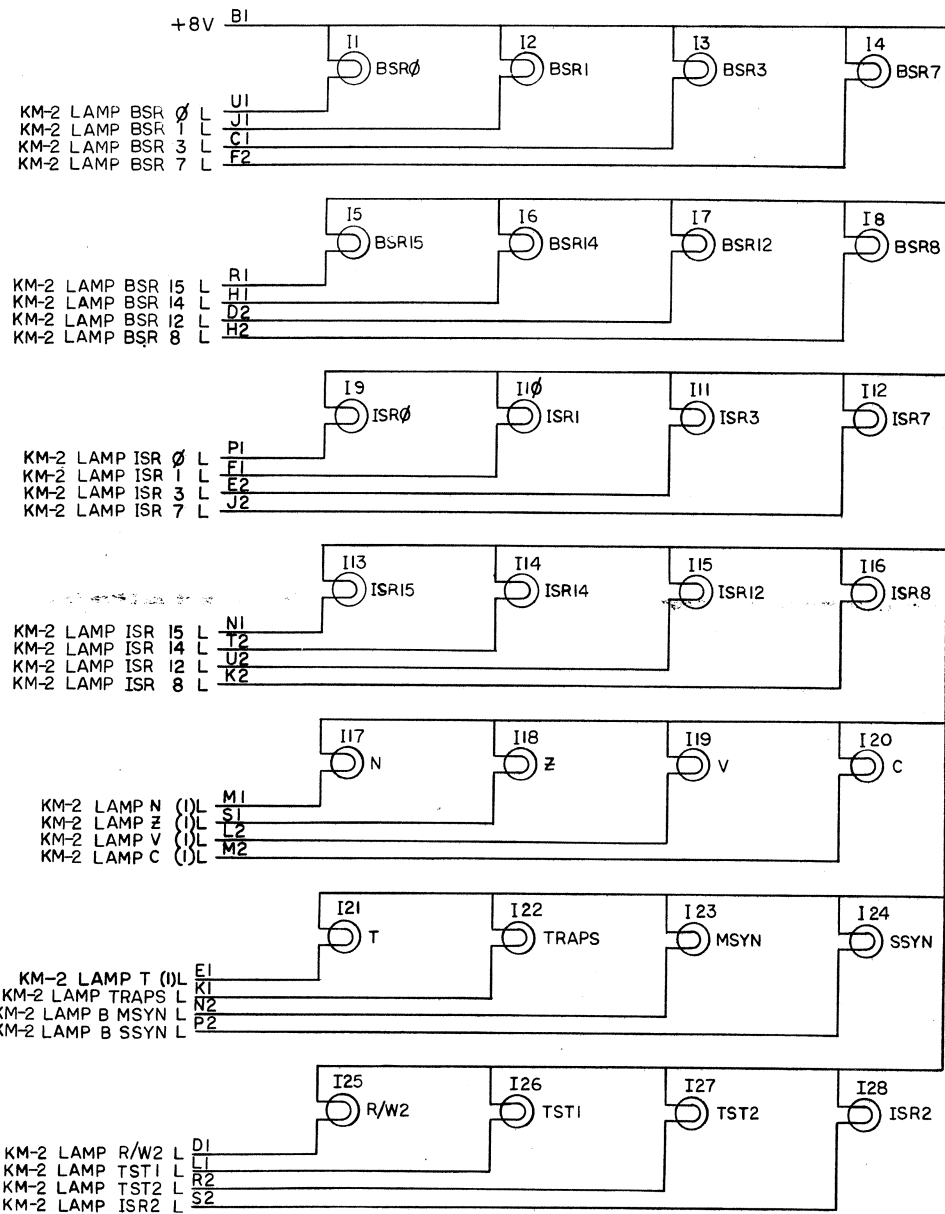
- +5V
- +8V
- B02V2 KM-2 M CLK ENABLE L
- B02U1 KM-2 M CLK L
- B02B2 KM-2 TIME OUT (I)H
- B02A1 BUS SSYN L
- KM-2 LAMP BSR 0 L
- KM-2 LAMP BSR 1 L
- KM-2 LAMP BSR 3 L
- KM-2 LAMP BSR 7 L
- GND
- KM-2 LAMP BSR 15 L
- KM-2 LAMP BSR 14 L
- KM-2 LAMP BSR 12 L
- KM-2 LAMP BSR 8 L
- KM-2 LAMP ISR 0 L
- KM-2 LAMP ISR 1 L
- KM-2 LAMP ISR 3 L
- KM-2 LAMP ISR 7 L
- KM-2 LAMP ISR 18 L
- KM-2 LAMP ISR 14 L
- KM-2 LAMP ISR 12 L
- KM-2 LAMP ISR 8 L
- KM-2 LAMP N (I) L
- KM-2 LAMP Z (I) L
- KM-2 LAMP V (I) L
- KM-2 LAMP C (I) L
- KM-2 LAMP T (I) L
- KM-2 LAMP TRAPS L
- KM-2 LAMP B MSYN L
- KM-2 LAMP B SSYN L
- KM-2 LAMP R/W 2 L
- KM-2 LAMP TST1 L
- KM-2 LAMP TST2 L
- KM-2 LAMP ISR 2 L

REV	CHG	NO
1	1	1

DEC FORM NO
DPO 102A

FIRST USED ON OPTION/MODEL PDP 11		QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED		DRN	PARTS LIST		
UNLESS OTHERWISE SPECIFIED		CHK'D	digital EQUIPMENT CORPORATION		
DIMENSION IN INCHES		DATE	TITLE		
TOLERANCES		DATE	MAINTENANCE BOARD (I)		
DECIMALS FRACTIONS ANGLES		DATE	W130 KM-2		
± .005 ± 1/64 ± 0°30'		DATE	SIZE CODE NUMBER REV.		
FINAL SURFACE QUALITY		DATE	D.B.S. KM11-0-MB		
REMOVE BURRS AND BREAK SHARP CORNERS		DATE	DIST.		
MATERIAL		NEXT HIGHER ASSY	SCALE NONE		
FINISH		A-ML-KM11-0	SHEET 2 OF 3		

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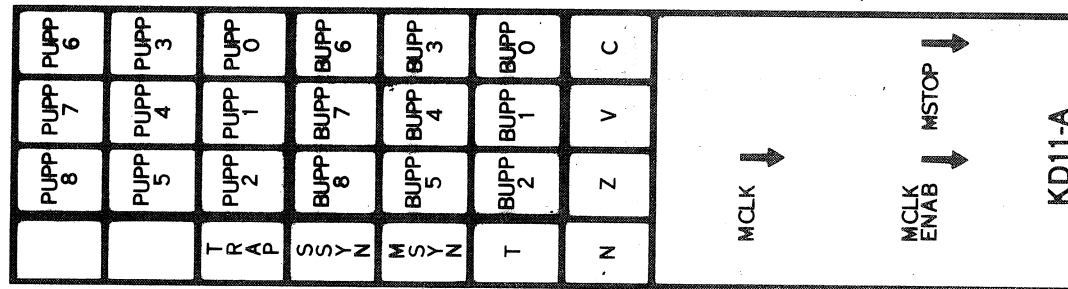


REV
CHANGE NO.
CHK

DEC FORM 1024

FIRST USED ON OPTION/MODEL PDP 11	QTY.	DESCRIPTION	PART NO.	ITEM NO.
UNLESS OTHERWISE SPECIFIED	DRN. J. Rudis	DATE 12-17-69	PARTS LIST	
UNLESS OTHERWISE SPECIFIED	CHKD. J. Rudis	DATE 9/24/70	digital EQUIPMENT CORPORATION WAYNARD, MASSACHUSETTS	
UNLESS OTHERWISE SPECIFIED	ENG. J. Rudis	DATE 3-6-70	TITLE MAINTENANCE BOARD(2)	
UNLESS OTHERWISE SPECIFIED	PROJ. ENG. J. Rudis	DATE 3-6-70	W131 KM-3	
UNLESS OTHERWISE SPECIFIED	PROD. J. Rudis	DATE 5/5/70	SCALE NONE	
MATERIAL	NEXT HIGHER ASSEMBLY			
FINISH	A-ME-KM11-0			
SHEET 3 OF 3		DIST.		

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FIRST USED ON OPT / MOD
KD11-A

REVISIONS	CHANGE NO.		REV.
	CHK		

SPEC # 9200100-94 (BLACK)

DRN <i>D. Mattson</i>		DATE <i>6-9-72</i>		digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS			
CHK'D. <i>BW</i>		DATE <i>7/7/72</i>					
ENG. <i>S. E. Frazer</i>		DATE <i>7/7/72</i>		TITLE MAINT. MODULE OVERLAY (KD11-A)			
PROJ ENG. <i>A. Goughlin</i>		DATE <i>7/7/72</i>					
PROD. <i>A. Stinger</i>		DATE <i>7/31/72</i>					
NEXT HIGHER ASSY C-MD-5509081-0-0				SIZE	CODE	NUMBER	REV.
SCALE				A	SS	5509081-0-12	
SHEET <i>1</i> OF <i>1</i>				DIST.	<i>C</i>		

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KE11-E,F				KT11-D			
EXP OVFL	MSR 01	EPS (N)	ROM D	EXP UNFL	MSR 00	EPS (Z)	ROM A
ECN 00	DR09	EPS (V)	PBA 07	B 15	DR00	EPS (C)	PBA 17
PBA 08	PBA 11	PBA 10	PBA 09	PBA 12	PBA 13	PBA 14	PBA 15

KT11-D
KE11-E,F

First used on opt/mod
KT11-D
KE11-E,F

REVISIONS	REV.	CHANGE NO.
	CHK	

SPEC #		9200101-94 (BLACK)			
DRN.	DATE	digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS TITLE Maint. module OVERLAY (KT11-D KE11-E,F)			
CHK'D.	DATE				
ENG.	DATE				
PROJ. ENG.	DATE				
PROD. ENG.	DATE				
NEXT HIGHER ASSY.					
C-MD-5509081-0-0		SIZE	CODE	NUMBER	REV.
SCALE		A	SS	5509081-0-13	
SHEET	OF	DIST.	G		