

MASTER DRAWING LIST	

[illegible]

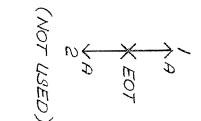
DRA 131

Dec 16 - (325)---1048-N471

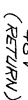
PRINT SET							DWG. NO.	REV. LET.	NO. OF SHEETS	TITLE	OPTION NO					
LT33-0																
X						D-BS-LT33-B-CONT	A	1	READER CONTROL CIRCUITS							
X						D-IC-LT33A-0-1		1	PDP10 TELETYPE MODEL 33 KSR							
X						D-IA-7505038-0-0	B	2	TELETYPE MODIFICATIONS (LT33)							
X						D-IA-7505039-0-0	B	1	TELETYPE MODIFICATIONS (50 HZ & 240V)							
X						D-IC-7505041-0-0	A	1	TELETYPE MODIFICATION (33 KSR)							
X						A-AL-LT33-0-12	A	1	ACCESSORY LIST							
X						D-UA-LT33A-0-0		1	PDP10 TELETYPE 33 KSR							
X						D-UA-LT33-B-0	A	1	DEC MODIFIED TELETYPE 33 ASR							
X						A-PL-LT33A-0-0		1	PDP10 TELETYPE 33 KSR (PL)							
X						A-PL-LT33-B-0	A	1	DEC MODIFIED TELETYPE 33 ASR (PL)							
X						A-PL-LT33-SB-0		1	RECOMMENDED SPARE PARTS							
X						A-PL-LT33-ST-0	A	2	MAINTENANCE TOOL KIT 33 ASR							
X						A-SP-LT33-0-2		3	MODIFICATION PROCEDURE							
X						A-SP-LT33-0-6	A	4	ALIGNMENT PROCEDURE							
X						A-SP-LT33-0-10	A	1	PACKING PROCEDURE							
X						A-SP-LT33-0-11	A	1	INSTALLATION PROCEDURE							
X						A-SP-LT33-0-13		7	INCOMING INSPECTION PROCEDURE							
X						B-UA-4915-0-0	A	1	TELETYPE READER CONTROL							
TITLE							TELETYPEWRITERS LT33			SHEET 2 OF 2		SIZE A	CODE ML	NUMBER LT33-0		REV C

DRA 132

DEC 16-(325)-1048-1-N471



THIS TABLE PROVIDES 115 V TO THE LOAD AT THE NOMINAL LINE VOLTAGE

DEC FORM NO
DRD 1024

QTY.		DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST				
DATE	DATE	EQUIPMENT		
10/27/68	3/24/68	CORPORATION		
HAYWARD, MASSACHUSETTS				
TITLE				
PDP 10 TELETYPE				
MODEL 33KSR				
ENG.	PROJ. ENG.	DATE		
Allen Kent	Allen Kent	12/28/68		
PROJ. MGR.	DATE	DATE		
Allen Kent	12/28/68	12/28/68		
DATE	DATE	DATE		
12/28/68	12/28/68	12/28/68		
FIRST USED ON				
D-UA-LT33A-O-O				
SCALE				
SHEET	OF	REV		
DIST.	5	REV		
SIZE CODE				
LT33A—O—1				

W076 REV'D CONN. (7/00076)
NOTE: YELLOW IS SOMETIMES USED INSTEAD OF WHITE.
GRAY IS SOMETIMES USED INSTEAD OF GREEN

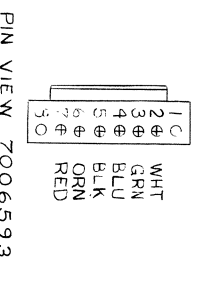
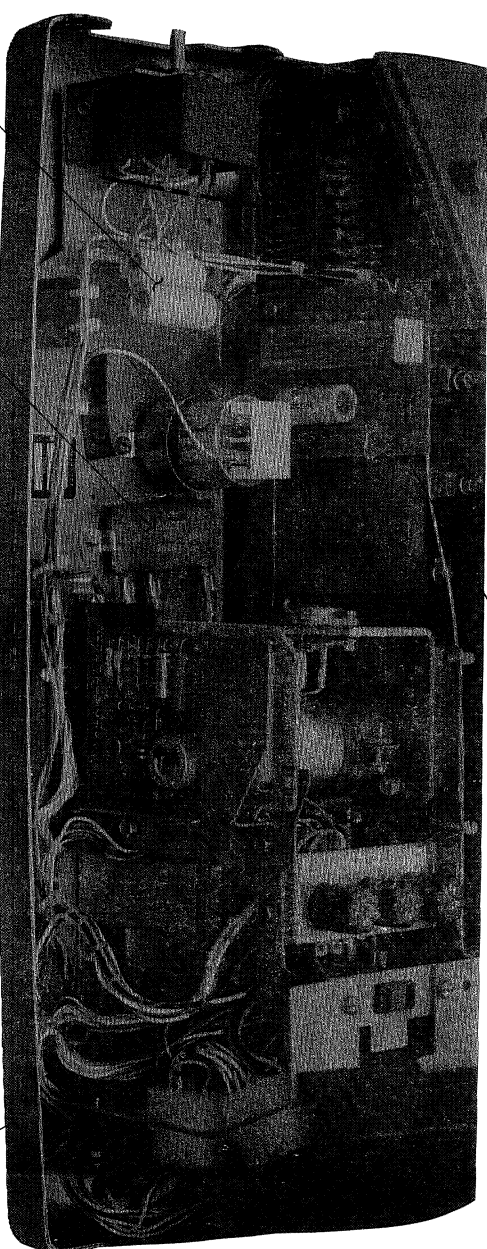


Diagram of a 4-pin power resistor. The pins are numbered 1 through 4 from bottom to top. The color bands are: Pin 1: WHT, GRN; Pin 2: GRN; Pin 3: BLU; Pin 4: BLU. The text "POWER RESISTOR" and "DETAIL B" is written vertically to the left of the resistor. The text "SEE NOTE 1E" is written vertically to the left of the resistor.



SUB BASE

FIRST USED ON OPTION MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.	
LT 33-DA									
UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES				DIN		DATE			
TOLERANCES				R.T. TELLEN		DATE		digital EQUIPMENT CORPORATION MAVARD MASSACHUSETTS	
DECIMALS		ANGLES		CHK'D.		DATE			
				C.K. ROSS		DATE			
.xxx - .005		± 0° 30'		EW / DAVIS		DATE			
.xx - .02				PROJ. ENG.		DATE			
x = .1				C.R. LASI		DATE			
REMOVE BURRS AND BREAK SHARP CORNERS SURFACE QUALITY ✓				PROD. / WOODWARD		DATE			
MATERIAL				NEXT HIGHER ASSY.		SIZE CODE		REV.	
FINISH				SCALE		DIA		B	
SHEET 1 OF 2				DIST.					
TELETYPE MODIFICATIONS (LT 33)									

TELETYPE
MODIFICATIONS

33

[illegible]

—

SIZE	CODE	NUMBER
D	IA	7505038-0-0

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8

7

6

5

4

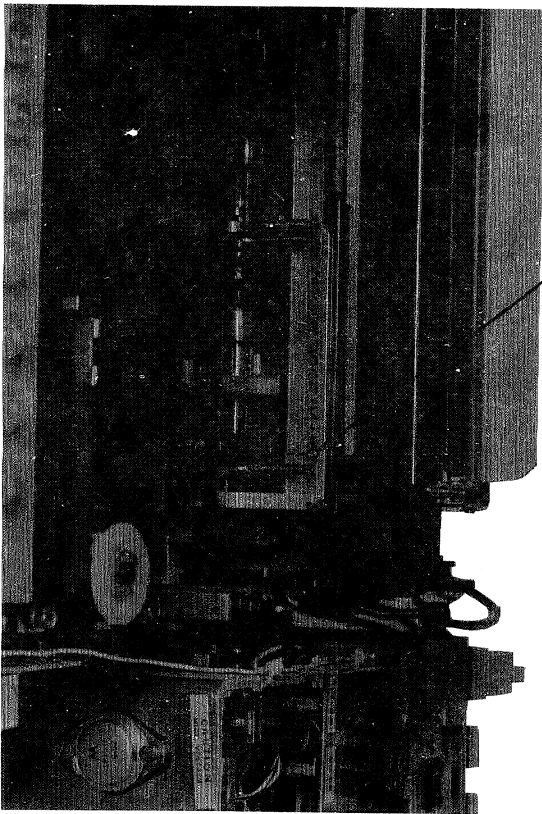
3

0-0-820505/21 d 2

1

WRU PAWL SPRING

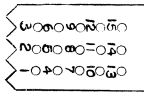
SEE NOTE 2A
PARTS TO BE REMOVED
INDICATED BY DASHED LINE



PLUG PANEL

SEE CABLE LAYOUT
SHEET 1 AND NOTE 1D

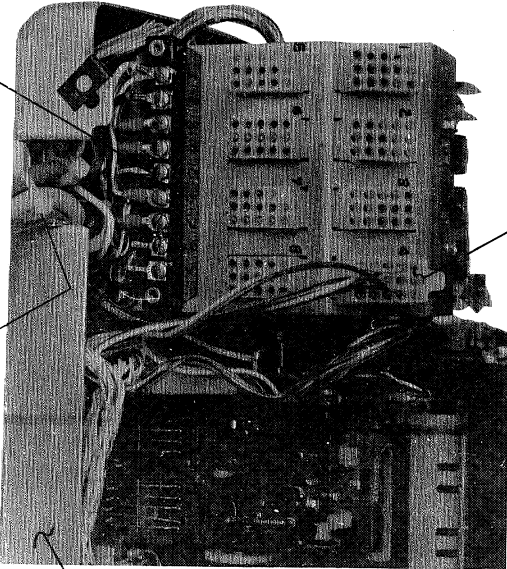
WIRING SIDE VIEW OF
PLUG #4. (PIN SIDE VIEW
OF RECEPTACLE #4)



SUB BASE

SEE NOTE 1

SECURE INTERFACE CABLE TO
CALL CONTROL UNIT AND
IO POWER CORD.



REVISIONS	
CHK	CHANGE NO.

A

B

C

D

FIRST USED ON OPTION / MODEL

DO NOT SCALE DRAWING
UNLESS OTHERWISE SPECIFIED
DIMENSION IN INCHES
TOLERANCES ANGLES
DECIMALS ± .005 ± .003
FINAL SURFACE QUALITY ± .020
REMOVE BURRS AND BREAK SHARP
CORNERS

FINISH

SCALE

SHEET 2 OF 2

BY: H. HELLEN
CHKD: R. RUSS
DATE: 2-24-70
ENG. DATE: 3-3-70
PROJ. ENG. DATE: 3-3-70
C. BLASI
PROD. DATE: 3-3-70
MACDONALD
NEXT HIGHER ASSY

SIZE CODE

TELETYPE
MODIFICATIONS
(LT-33)

NUMBER

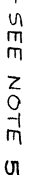
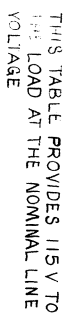
REV. B

SIZE CODE D 7505038-0-0

REV. B

NOTES

- IF NOT ALREADY SUPPLIED.



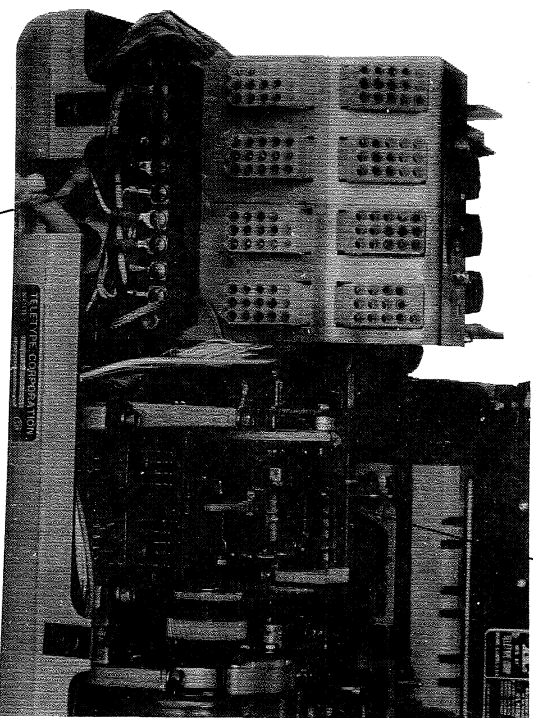
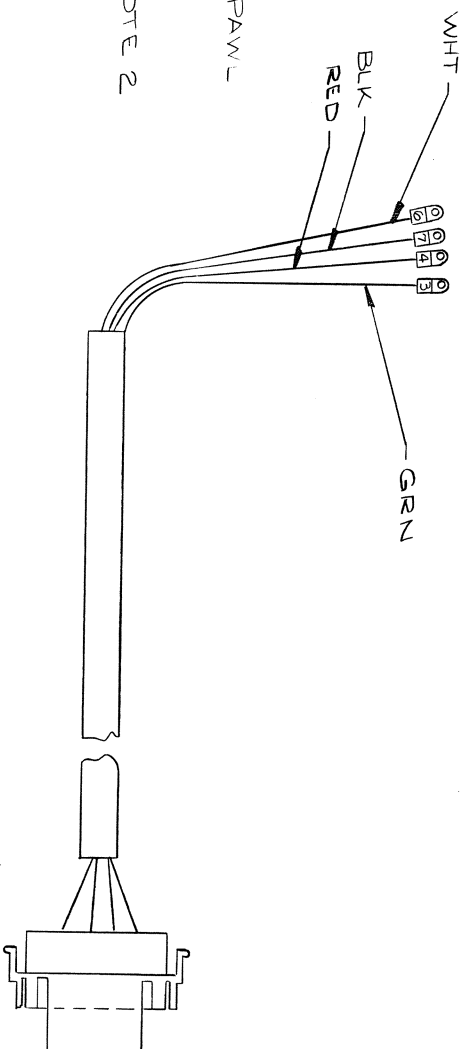
1

**CABLE CONNECTIONS TO
TERMINAL BOARD
NUMBER IN JUG
CORRESPONDS TO
TERMINAL BOARD
NUMBER**

TTY		CABLE		VARIATIONS	
PROD LINE	CABLE NUMBER	REMARKS			
PDP-8, 8 ¹ / ₂ , 8L, 8S	7005011-1 (12 FT)	NOT SHOWN			
PDP-12, LINC 8,	7005011-2 (18 FT)				
PDP-9, 9L					
PDP-8S, PDP-11,	7006594-1 (12 FT)	AS SHOWN			
PDP-15	7006594-2 (18 FT)				

NOTES:

- | | |
|--|--------------------------|
| 1. ADDITIONAL ELECTRICAL CHANGES TO TERMINAL BOARD CONNECTIONS : | |
| A. REMOVE BROW-YELLOW WIRE FROM LUG 3 & PLACE ON LUG 5. | |
| B. REMOVE BLUE-WHITE WIRE FROM LUG 4 & PLACE ON LUG 5. | |
| C. REMOVE PURPLE WIRE FROM LUG 8 & PLACE ON LUG 9. | |
| 2. MECHANICAL CHANGES : | |
| A. REMOVE SPRING & WRU PAWL UNIT FROM SLOT "N" IN FUNCTION CASTING | |
| 3. ADD (2) SP4-B4 THYRISTORS DEC #1100106 TO UNIT & WIRE AS INDICATED BELOW. | |
| FROM | TO |
| THYRISTOR #1 | CONN #2 OF ON-OFF PWR SW |
| " #1 | " #2L " |
| " #2 | " " " |
| " #2 | " " " |
| " #1 | " " " |
| " #2 | " " " |
4. SEE ALSO D-1A-7505039-0-0 FOR ADDITIONAL MODIFICATIONS TO SOH Z OR 240 V UNITS.



- SEE NOTE #1
- ✓ CABLE CONN'S
- TERMINAL BOARD

SUBBASE

KSR-33 TELETYPE MODIFICATION
AND CABLE CONNECTIONS

REVISIONS			
CHK	CHANGE NO.	REV.	
<i>Full</i>	<i>LT 33 00000</i>	<i>A</i>	
<i>A. KENT</i>			
<i>Alan Kent 26 Jul 71</i>			

FIRST USED ON OPTION/MODEL		QTY.		DESCRIPTION		PART NO.		ITEM NO.		
LT33-CA UNLESS OTHERWISE SPECIFIED DIMENSION IN INCHES DECIMALS FRACTIONS ANGLES = .003 = 1/64 = 0°30' FINAL SURFACE QUALITY = 0°30' REMOVE BURNS AND BREAK SHARP CORNERS MATERIAL FINISH		DON DATE ENG. DATE PROL. ENG. DATE DATE NEXT HIGHER ASST		PARTS LIST TELETYPE MODIFICATION (KSR-33)		digital EQUIPMENT CORPORATION ANN ARBOR, MICHIGAN 48106-1575		SCALE 1/2" = 1" SHEET 1 OF 1 DIST. 1		NUMBER 7505041-0-0 REV A

MAYNARD, MASSACHUSETTS

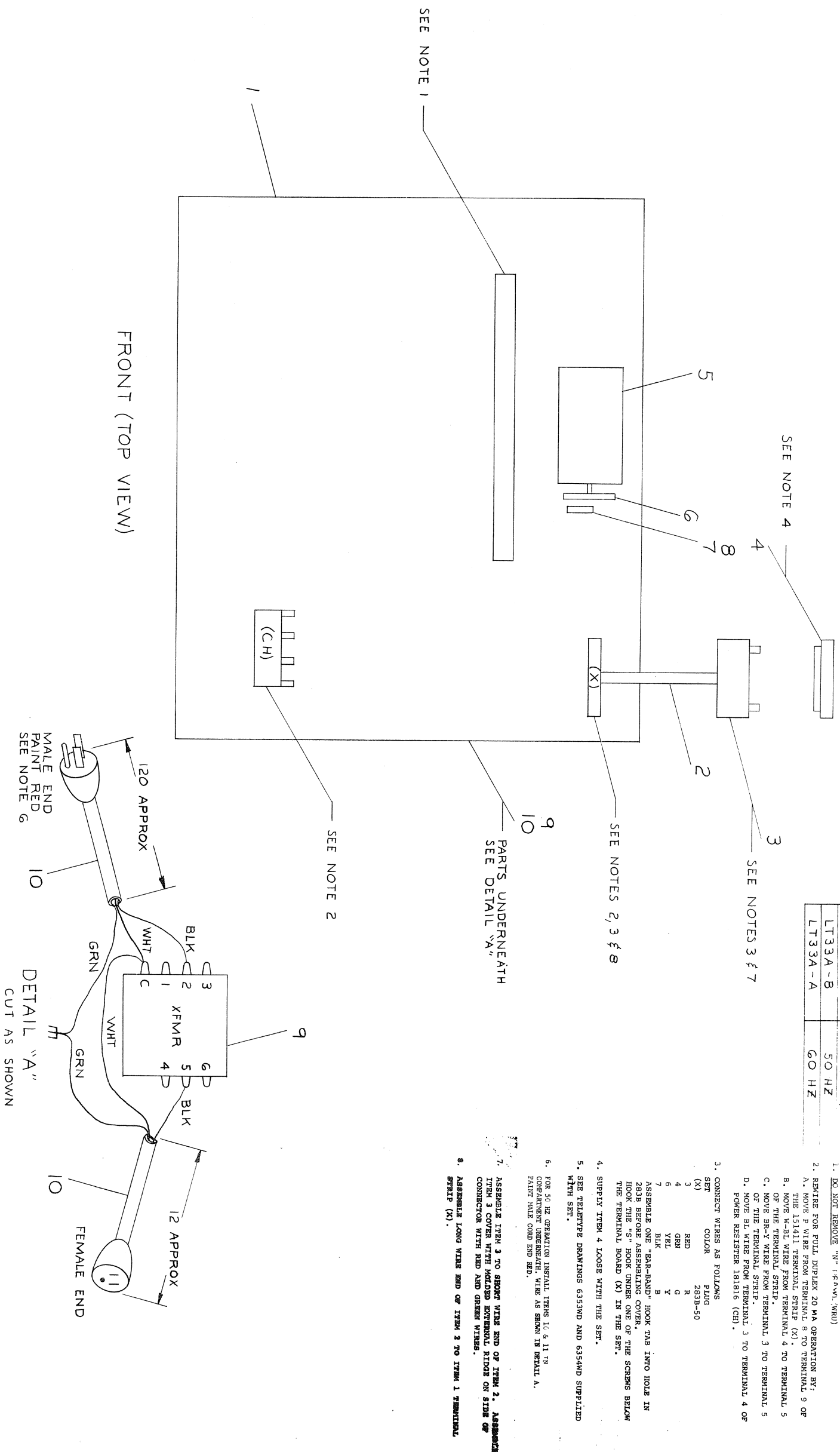
LEGEND

D	DOCUMENT
DN	DOCUMENT CHANGE
	NOTICE

-BA, -BB, -DA,	
-DC, -DD, -DE,	
-EB, -HA, -HB	
-AA, -AB,	
-CB, -CC,	
-CE	
CHECK	
_____ DATE _____	
COLLATION CHECK	
_____ DATE _____	

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NUMBER	REV.	ECONO
LT33-0-12	A	LT33-
		00002



LEGEND	
NUMBER	VARIATION
LT33A-B	50 HZ
LT33A-A	60 HZ

NOTES

- A. MOVE P WIRE FROM TERMINAL 8 TO TERMINAL 9 OF THE 15141 TERMINAL STRIP (X).
- B. MOVE W-BL WIRE FROM TERMINAL 4 TO TERMINAL 5 OF THE TERMINAL STRIP.
- C. MOVE BR-Y WIRE FROM TERMINAL 3 TO TERMINAL 5 OF THE TERMINAL STRIP.
- D. MOVE BL WIRE FROM TERMINAL 3 TO TERMINAL 4 OF POWER RESISTOR 181816 (CH).

3. CONNECT WIRES AS FOLLOWS

SET	COLOR	PLUG
(X)		283

3	RED	R
4	GRN	G
6	YEL	Y
7	DIR	D

ASSEMBLE ONE "EAR-BAND" HOOK TAB INTO HOLE IN 283B BEFORE ASSEMBLING COVER.
HOOK THE "S" HOOK UNDER ONE OF THE SCREWS BELOW

4. SUPPLY ITEM 4 LOOSE WITH THE SET.

5. SEE TELETYPE DRAWINGS 6353WD AND 6354WD SUPPLIED WITH SET.

b. FOR 50 HZ OPERATION INSTALL ITEMS 10 & 11 IN COMPARTMENT UNDERNEATH. WIRE AS SHOWN IN DETAIL A. PAINT MALE CORD END RED.

7. ASSEMBLE ITEM 3 TO SHORT WIRE END OF ITEM 2. ASSEMBLE ITEM 3 COVER WITH MOLDED EXTERNAL PLUG ON STEEL CO.

3. ASSEMBLE LONG WIRE END OF ITEM 2 TO ITEM 1 TERMINAL STRIP (X).

REVISIONS		
CHK	CHANGE NO.	REV.

UNLESS OTHERWISE SPECIFIED		DATE		4/16/82	
UNLESS OTHERWISE SPECIFIED		CUT/DRAWN		BY 382	
DIMENSION IN INCHES		ENG		DATE 4/16/82	
TOLERANCES		MATERIAL		DATE 25/11/82	
DECIMALS FRACTIONS ANGLES		PROJ. ENG		DATE 25/11/82	
= FINAL SURFACE QUALITY		PROJ. DATE		DATE 25/11/82	
REMOVE BURS AND BREAK SHARP		DATE		DATE 25/11/82	
MATERIAL		FIRST USED ON		DATE 25/11/82	
FINISH		SCALE		NONE	
SHEET 1 OF 1		SIZE CODE		NUMBER	
DIST. G		DUAL		LT33A-0-0	
		REV			

LT33 - BB	230V 50 Hz
-----------	------------

- FORMS.

CH
<i>F. M.</i>
<i>Y</i>
<i>Al</i>

[illegible]

MAYNARD, MASSACHUSETTS

PARTS LIST

DIGITAL EQUIPMENT CORPORATION				QUANTITY										REVISIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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ITEM NO.	DWG. NO.	DESCRIPTION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231	1232	1233	1234	1235	1236	1237	1238	1239	1240	1241	1242	1243	1244	1245	1246	1247	1248	1249	1250	1251	1252	1253	1254	1255	1256	1257	1258	1259	1260	1261	1262	1263	1264	1265	1266	1267	1268	1269	1270	1271	1272	1273	1274	1275	1276	1277	1278	1279	1280	1281	1282	1283	1284	1285	1286	1287	1288	1289	1290	1291	1292	1293	1294	1295	1296	1297	1298	1299	1300	1301	1302	1303	1304	1305	1306	1307	1308	1309	1310	1311	1312	1313	1314	1315	1316	1317	1318	1319	1320	1321	1322	1323	1324	1325	1326	1327	1328	1329	1330	1331	1332	1333	1334	1335	1336	1337	1338	1339	1340	1341	1342	1343	1344	1345	1346	1347	1348	1349	1350	1351	1352	1353	1354	1355	1356	1357	1358	1359	1360	1361	1362	1363	1364	1365	1366	1367	1368	1369	1370	1371	1372	1373	1374	1375	1376	1377	1378	1379	1380	1381	1382	1383	1384	1385	1386	1387	1388	1389	1390	1391	1392	1393	1394	1395	1396	1397	1398	1399	1400	1401	1402	1403	1404	1405	1406	1407	1408	1409	1410	1411	1412	1413	1414	1415	1416	1417	1418	1419	1420	1421	1422	1423	1424	1425	1426	1427	1428	1429	1430	1431	1432	1433	1434	1435	1436	1437	1438	1439	1440	1441	1442	1443	1444	1445	1446	1447	1448	1449	1450	1451	1452	1453	1454	1455	1456	1457	1458	1459	1460	1461	1462	1463	1464	1465	1466	1467	1468	1469	1470	1471	1472	1473	1474	1475	1476	1477	1478	1479	1480	1481	1482	1483	1484	1485	1486

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY		CHECKED	D. HEALY	SECTION
DATE	9/25/65	DATE	1-20-70	1
ENG	McLean Kraft	PROD	Q. McLean	ISSUED SECT.
DATE	30 Jan 70	DATE	2-9-70	1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION
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DESCRIPTION

LT33-BB	50 Hz
LT33-BA	60 Hz

LT33-BA 60 Hz

QUANTITY / VARIATION

TITLE	ASSY NO.	SIZE CODE	NUMBER	REV.	ECONO NO.
TT-RESHAPING TELETYPE 33 ASR (TV)	D-UA-LT33-B-0	A PL	LT33-B-0	A	LT33-000002
SHEET 1 OF 1		DIST.			

DEC FORM NO.
DRA 110

DRA 110

X

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. O. FERGUSON		CHECKED K. GULICK	SECTION
DATE 11-13-70		DATE 11-13-70	1
ENG <i>W. J. ...</i>		PROD <i>...</i>	
DATE 11-11-70		DATE <i>...</i>	ISSUED SECT. 1

[illegible]

TITLE									
LT33-B TELETYPE									
RECOMMENDED SPARE PARTS									
ASSY NO.		SIZE	CODE	NUMBER			REV.	ECO NO	
		A	PL	LT33-SB-Ø					
SHEET 1 OF 1		DIST.							

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS
PARTS LIST

MADE BY J. FERGUSON	CHECKED K GULICK	SECTION
DATE 11-18-70	DATE 11-18-70	1
ENG <i>J. Ferguson</i>	PROD <i>J. Ferguson</i>	ISSUED SECT.
DATE 11-19-70	DATE 11/19/70	1

ITEM NO.	DWG NO. / PART NO.	DESCRIPTION	QUANTITY / VARIATION									
1	29 12521	SCALE, 80Z #110443 TTY CORP	1									
2	29 12522	SCALE, 32 OZ #110444 TTY CORP	1									
3	29 12602	SCALE, 64 OZ #82711 TTY CORP	1									
4	29 12520	GAGE SET #117781 TTY CORP	1									
5	29 12532	SCREWDRIVER, OFFSET #94644 TTY CORP	1									
6	29 12524	SCREWDRIVER, OFFSET #94645 TTY CORP	1									
7	29 12525	CROCKET HOOK, NO. 8 #151351 TTY CORP	1									
8	29 12526	CROCKET HOOK, NO. 12 #151959 TTY CORP	1									
9	29 12527	SPRING HOOK PUSH #142555 TTY CORP	1									
10	29 12528	SPRING HOOK PULL #142554 TTY CORP	1									
11	29 12529	SCREW HOLDER #151384 TTY CORP	1									
12	29 12530	HAND WHEEL ADAPTOR #181465 TTY CORP	1									
13	29 12540	HANDWHEEL #161430 TTY CORP	1									
14	29 12553	CONTACT ADJUSTMENT TOOL #172060 TTY CORP	1									
15	29 12554	GAGE #180587 TTY CORP	1									
16	29 12555	GAGE #180588 TTY CORP	1									
17	29 12556	BENDING TOOL #180993 TTY CORP	1									
18	29 12557	GAGE #183103 TTY CORP	1									
19	29 12558	EXTRACTOR #182697 TTY CORP	1									
20	29 12559	TWEEZER #151392 TTY CORP	1									
21	29 12560	TOMMY WRENCH #6617 TTY CORP	1									

TITLE	LT33 TELETYPE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
MAINTENANCE TOOL KIT			A	PL	LT33-ST-0	A	LT33-00002
DEC FORM NO. 16-1031		SHEET 1 OF 2	DIST.				

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 5/3/68

TITLE MODIFICATION PROCEDURE TELETYPE MODEL 33ASR-TY

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE

The model 33TY must be modified in the following manner:
(Ref: refers to teletype manual)

1. Remove the WRU pawl from the function casting. It is the second pawl from the right of the casting.
Ref: Vol II - Sec: 574-122-700 page 6

2. Remove the blue lead from the 750Ω resistor post and reconnect it to the 1450Ω resistor post.
Ref: Vol I - Sec: 574-100-102

3. On the call control unit terminal strip the following wires are transferred:

Color of Wire	Remove From	Connect To
Brown/White	Term. 3	Term. 5
Blue/White	Term. 4	Term. 5
Purple	Term. 8	Term. 9

Ref: Vol I - Sec: 574-100-102 page 14 (fig.12)

4. The leads of DEC cable #5288-2 which have red crimp lugs are connected to the call box terminal strip as follows:

Color of Wire	Term. No.
Grey/White	3
Red	4
Yellow/White	6
Black	7

5. Mount the 4195 reader control card on the left side of the call control unit. A bracket is provided for mounting and is located to the right of arrow pointing to "plate", near the on-off switch. Connect the wires on one end of reader control card to locations as follows:

Color of Wire	Length of Wire	Origin	Connect To
Yellow/White	6" approx.	to	I2 of on-off solenoid switch
Yellow/White	6" approx.	to	I1 of on-off reader switch
Yellow/White	2' approx.	---	Plug #4 of call control unit (3rd hole from right)

ENG	APPD	SIZE	CODE	NUMBER	REV
		A	SP	LT33-0-2	

DEC FORM NO.
DRA 107

SHEET 1 OF 3

ENGINEERING SPECIFICATION

CONTINUATION SHEET

TITLE MODIFICATION PROCEDURE TELETYPE MODEL 33ASR-TY

Brown	---	---	Plug #4 of call control unit (3rd hole from right)
Ref: Sec: 574-100-102 page 14 (fig.12)			
6. Connect two SP4B4 thractors on the on-off switch as follows:			
a. One thyraactor from position 2 to position 1 of the on-off switch.			
b. The other thyraactor from position 2 to position I2 of the on-off switch.			

STUNT BOX AREA

7. Remove the pawls #11 and #12 (the casting is numbered). Also remove the pawl lettered "N" which is the second from the right as you face the keyboard.
Ref: Vol II Sec: 574-122-700 page 8 (fig.5)

KEYBOARD AREA

8. Remove the red/green wire from the top bus bar. Insulate this wire and pace it under the keyboard. This connection is no longer required for operation.
9. The third contact which is located on the left of the keyboard is to be cut 1/8 inch above the bus bar. The contact should no longer be affected by the control lever, but should remain in contact with the bus bar.
10. Remove the fourth contact which is located on the right side of the keyboard. This contact is shaped slightly different from the third one. Replace the fourth contact with a duplicate of the third contact (TTY P/N 180043). The third and fourth contacts are cut 1/8 inch above the bus bars as described in step #9. Proper operation now consists of both the third and fourth contacts opening and closing simultaneously and unaffected by their previously related control levers.

PUNCH AREA

11. Refer to parts bulletin 1184B Sec: 574-125-800 pages 3 and 4 (fig.2 & 3)
Remove the following components from the punch assembly:
- | Part Number | Name | Refer To |
|-------------|---------|-----------------------------------|
| 184-200 | Bail | |
| 182-465 | Bracket | Page 3, fig.2, top center of page |
| 182-466 | Lever | |
- Remove screw P/N 182-823 (page 3, fig.2) from post and remove complete tape feed mechanism. Place the new lever P/N 182-460 vertically (with its attached post

SIZE	CODE	NUMBER	REV
A	SP	LT33-0-2	

DEC FORM NO.
DRA 108

SHEET 2 OF 3

ENGINEERING SPECIFICATION



CONTINUATION SHEET

TITLE MODIFICATION PROCEDURE TELETYPE MODEL 33ASR-TY

away from the punch casting and to the front) between the punch casting and arm (P/N 182-848, page 4, fig.3). Assemble new lever to post (P/N 182-412, page 3 fig.2). It is held in place by previously removed "E" ring. Re-install the tape feed mechanism and post P/N 182-395 (page 3 fig.2). With the flat top of the new plastic lever (P/N 182-394) towards the rear, insert the lever onto the post (P/N 182-395). With the flat top of the second new plastic lever now facing the front, insert it on the same post. The corresponding vertical levers are attached to the plastic levers and plate (P/N 182-839, page 3 fig.2) is re-installed and held in place by the "E"ring.

12. Refer to Vol II sec: 574-125-700 (page 4, fig.2). Notice sensing lever chart; 8 level column, slot A-O P/N 182-457 lever and slot A-8 P/N 182-457 lever. These two levers are located on the extreme opposite sides of the punch assembly. They must be disengaged from their related pawls and held down. They must not be effected by operational functions. This is accomplished by tying down.

SIZE	CODE	NUMBER	REV
A	SP	1A33-0-2	

DEC FORM NO
DRA 108

SHEET 3 OF 3

DIGITAL EQUIPMENT CORPORATION						
MAYNARD, MASSACHUSETTS						
ENGINEERING SPECIFICATION				DATE 4/23/68		
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL LT33 SERIES						
REVISIONS						
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGED ECO	LT33-00002	A. KENT	7-6-71	KEB	26 July 71

TELETYPE ALIGNMENT PROCEDURE:

A. Carefully check for damaged or obviously misaligned components.
Note: In the following sections, power is off unless noted.

B. Main Shaft
1. Clearance between slotted bronze bearing and collar
.005
.015

C. Distributor Clutch
1. Endplay between left bearing and clutch gear assembly
.002
.008

2. Clearance between brush holder and disc at closest point
.025
.025

3. Clearance between shoe lever and stop lug with clutch disengaged and keyboard universal lever in down position
.015 min.

4. Increase in clearance recorded in step #3 after clutch has been engaged
.050
.080

5. Disengage clutch and depress any non-function key. Clearance between clutch shoe lever and trip lever with upper edge of clutch lever in line with upper edge of trip lever
.015
.035

6. Power on and keyboard universal lever in latched position. Clearance of clutch shoe lever beyond rear most surface of trip lever
000
.015

D. Selector Clutch
1. Disengage clutch. Endplay between clutch and side plate
.002
.008

ENG	APPD	SIZE	CODE	NUMBER	REV
KEB		A	SP	LT33-0-6	A

DEC FORM NO. DRA 107 SHEET 1 OF 4

ENGINEERING SPECIFICATION						CONTINUATION SHEET	
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL LT33 SERIES							

2. Disengage clutch. Trip lever shall engage shoe lever by approximately the full thickness of shoe lever.

3. Disengage clutch lift trip lever to trip clutch, permit trip lever to rest on shoe lever. Edge of shoe lever shall sit in center of slot in trip lever

E. Codebar Clutch
1. Disengage clutch. Endplay at maximum
.002
.008
.012

2. Endplay in latch levers

3. Typing unit in stop condition. Trip lever shall engage shoe lever by approximately the full thickness of shoe lever

4. Disengage clutch lift trip lever to trip clutch, permit trip lever to rest on shoe lever. Edge of shoe lever shall sit in slot in trip lever.

F. Function Clutch
1. Disengage clutch. Endplay between clutch and collar at maximum
.002
.008

2. Typing unit in stop condition. Trip lever shall engage shoe lever by approximately the full thickness of shoe lever.

3. Disengage clutch. Lift trip lever to trip clutch, permit trip lever to rest on shoe lever. Edge of shoe lever shall sit in center of slot in trip lever.

G. Rear Rail
1. Power on. Perform carriage return. Power off. Release codebar clutch. Rotate main shaft until codebars are fully raised. Observe small portion of #1 codebar slide below right guide plate. Move carriage to right margin. Protruding portion of codebar must remain constant throughout carriage traverse.

H. Drive Bail
1. Power on. Perform carriage return. Power off. Release codebar clutch. Rotate main shaft until carriage drive bail reaches its rearmost position.

DEC FORM NO. DRA 108	SIZE	CODE	NUMBER	REV
	A	SP	LT33-0-6	A

SHEET 2 OF 4

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL		LT33 SERIES	
Clearance between print hammer bail and print hammer trip lever This clearance must remain constant as carriage is manually moved to right margin.		.015 .030	
I. Print Suppression Latch			
1. Place carriage approximately 1/2 inch from left margin. Set (--3-5-78) code in selector. Rotate main shaft until drive bail reaches rearmost position. Take up print suppression latchlever play to the right. Clearance between print suppression latch and print hammer bail		.015 .030	
J. Reader (Disregard on KSR units)			
1. Control lever in free position. Alternately hold and release armature to cycle sprocket and sensing pins through several positions. At each position:			
a. The sprocket pin shall be in line with sensing pins within		.002 max. .001 max.	
b. Sprocket backlash shall not exceed			
2. Control Lever In Free Position.			
a. Armature in attached position. Clearance between top surface of top plate to tip of each sensing pin in fully extended positions			
b. Armature in unattracted position. Clearance between tip of each sensing pin below top surface of top plate		.015 max.	
3. Tape lid closed. Tape lid latch must be centrally located in cut out of tape lid. Clearance between top plate and latch spring		.005 .030	
4. Armature in unattracted position.			
a. Clearance between feed pawl and ratchet with fine teeth between feed pawl and detent lever		.001 .008	
b. Clearance between blocking pawl and ratchet tooth		.001 .010	
K. Tape Punch (Disregard on KSR units)			
1. Check to insure punch driver arm assembly			
SIZE	CODE	NUMBER	REV
A	SP	LT33-0-6	A

DEC FORM NO
DRA 108

SHEET 3 OF 4

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE ALIGNMENT/TEST PROCEDURE FOR TELETYPE MODEL		LT33 SERIES	
is securely fastened to main rocker shaft.			
2. Power on. Manually rotate main shaft until function rocker shaft and stripper bail are in most forward positions. Take up rear roller play toward rear and tape nudger play in clockwise direction. Clearance between rear roller and highest point on tape nudger.		.070 .090	
3. Set all marking code in selector. Manually rotate main shaft until function rocker shaft and stripper bail are in rearmost position. There must be some clearance between rightmost sensing lever and its associated pawl.			
a. Clearance between left most sensing lever and its associated pawl		.005 .020	
b. Take up all play in stripper bail toward rear. Feed wheel in its fully detented position. Clearance between feed pawl and feed wheel ratchet tooth		.001 .005	
4. Position end of spring to lowest notch of arm with bushing. Perforate alternate R and hyphen codes in 8 inches of tape. Align #2 code hole of tape with first .072 hole on smooth side of gage TP156011. The four remaining .072 gage holes must be visible through corresponding #2 code holes in tape. The #2 code hole which corresponds with .86 gage hole must be entirely within the perimeter of that gage hole.			
TEST PROCEDURE			
Run the following tape using PDP8/S or PDP8/I processor:			
Combo Test - MAINDEC-08-D2TA			
(A) If failures occur run the following diagnostic pertaining to the particular area, that failed in the Combo Test, repair, re-run combo.			
Teleprinter Test		MAINDEC-08-D25A	
Binary Loader		DEC-8-2-U-RIM	
Punch Test		MAINDEC-08-D2QA	
Keyboard Test		MAINDEC-08-D2RA	
Reader Test		MAINDEC-08-D2PA	
(B) Unit is ready for shipment when Combo Test #MAINDEC-08-D2A makes one complete pass with no error typeouts.			
SIZE	CODE	NUMBER	REV
A	SP	LT33-0-6	A

DEC FORM NO
DRA 108

SHEET 4 OF 4

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 5/3/68

TITLE PACKING PROCEDURE FOR TELETYPE WRITERS LT33 SERIES

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGED ECO	LT33-00002	A KENT	7-6-71	Mon Kent	26 July 71

DISREGARD READER AND PUNCH INSTRUCTIONS ON KSR UNITS.

1. Put reader clip in holder; reader pins in upward position as originally received.
2. Use one tie wrap to hold carriage at left margin.
3. Mount printer unit to fiberboard platform with the eight (8) mounting screws and three (3) studs, originally provided.
4. Put chad box and reader power pack as well as copy holder in the box provided.
5. ~~Fifty (50) teletypes~~ Teletypes should have transformer (if previously mounted) left in base stand.
6. The four (4) mounting screws that mount the printer to the base stand should be put in a bag along with the on/off knob and the platen knob and then tied to the base stand.
7. Teletype AC cable and signal cable should be placed on the plastic cover where paper roll normally goes and wrapped in kim pack.
8. Tape down printer cover, punch paper-roller, printer paper-roller and cables of item 7 above. Additional tape should be used to secure whole cover to base.
9. Make sure that there are three (3) thumbscrews that hold teletype cover on, and four (4) screws in the front of the machine, also a screw in reader cover and one (1) face-plate for each machine.

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ENG <i>W. Kent</i>	APPD	SIZE A	CODE SP	NUMBER LT33-0-10	REV A
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DEC FORM NO.
DRA 107

SHEET 1 OF 1

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 5/3/68

TITLE INSTALLATION PROCEDURE FOR TELETYPE MODEL LT33 SERIES

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGED ECO	LT33-00002	A. KENT	7-6-71	Allen Kent	26 July 71

DISREGARD READER AND PUNCH INSTRUCTIONS ON KSR UNITS.

1. Remove all tape holding covers and cables.
2. Remove the whole cover and in the reader, remove clip which holds reader pins in an upward position before turning machine on.
3. Mount power supply for reader on basic stand and plug connector cable in.
4. Remove the wrap being used to hold carriage at left hand margin.
5. Mount base to bottom of unit with screws provided.
6. Replace cover being sure that three (3) thumbscrews, four (4) panhead screws and one (1) special screw (for reader) are correctly installed before attaching face plate and knobs.

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ENG	APPD	SIZE A	CODE SP	NUMBER LT33-0-11	REV A
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DEC FORM NO.
DRA 107

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DIGITAL EQUIPMENT CORPORATION

MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 3/18/71

TITLE ASR33 TELETYPE INCOMING INSPECTION PROCEDURES AND ADJUSTMENTS

REVISIONS					
REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY DATE

ENG
W. J. Smith

APPD
W. J. Smith

SIZ
A

COD
SP

NUMBR
LT33-0-13

REV

DEC FORM NO.
ORA 107

SHEET 1 OF 7

ENGINEERING SPECIFICATION		ORIGINAL		CONTINUATION SHEET	
TITLE ASR33 TELETYPE INCOMING INSPECTION PROCEDURES AND ADJUSTMENTS					
1.0 SCOPE This procedure outlines the procedures for inspection and acceptance of the ASR 33 Teletype. 1.1 These instructions specifically outline the requirements for DEC production standards and will be used as the basis for acceptance or rejection of vendor supplied equipment.					
2.0 EQUIPMENT REQUIRED 2.1 Feeler gauges type TTY #117781, DEC 29-12520 or similar. 2.2 DEC tape gauge type T18118. 2.3 Reader gauge type TTY #TP183103. ALL CHECKS ARE MADE WITH POWER OFF					
3.0 KEYBOARD Section 574-121-700TC, ISSUE 3, JUNE 1969, VOL. 2, Technical Manual Type ASR33 Teletypewriter 3.1 Universal lever clearance. (Ref. Page 21) 3.1.1 Minimum .014", maximum .058" clearance between latch lever and universal lever.					
4.0 TYPING UNIT Section 574-122-700TC, Issue 4, August 1969, Vol. 2, Technical Manual Type ASR33 Teletypewriter. * 4.1 Distributor shaft end play. (Ref. Page 11) 4.1.1 Minimum .001", maximum .012" clearance between left bearing and clutch gear assembly. * 4.2 Distributor clutch adjustment. (Ref. Page 13) 4.2.1 With clutch released, leading edge of trip lever should come approximately in the center of the shoe lever 4.2.2 With clutch latched, shoe lever should be minimum flush, maximum .015" beyond rearmost surface of trip lever.					
DEC FORM NO 16-1022		DRA 108		SHEET 2 OF 7	

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLE ASR33 TELETYPE INCOMING INSPECTION PROCEDURES AND ADJUSTMENTS			
4.2.3 With clutch latched, advance distributor brush holder in its driving direction until it stops and releases. It should restore to normal position.			
4.3 Selector cam end play. (Ref. Page 18)			
4.3.1 Disengage selector clutch, move mainshaft toward the right, minimum .002", maximum .012" clearance measured between left end bearing and collar.			
* 4.4 Code bar and function clutch adjustment. (Ref. Pages 22 to 24)			
4.4.1 When disengaged, the upper surface of the trip lever and shoe lever should be approximately flush. When released, the leading edge of the shoe lever should come to the center of the notch on the trip lever.			
* 4.5 Selector clutch adjustment. (Ref. Page 27)			
4.5.1 When disengaged, the upper surface of the trip lever and shoe lever should be approximately flush. When released, the leading edge of the shoe lever should come to the center of the notch on the trip lever.			
* NOTE: When all clutches are adjusted, reverse the rotation of the mainshaft by hand, with all clutches latched. The mainshaft should rotate freely, if it does not, the clutch adjustments must be measured according to the teletype manual.			
4.6 Blocking lever adjustment. (Ref. Page 39)			
4.6.1 Set range finder to 72, set up an all marking code combination in selector. Release code bar clutch, cycle by hand, all code bars should go marking and a slight vertical movement of some blocking levers should occur as the code bars pass beneath the blocking levers.			
4.7 Print Suppression. (Ref. Pages 37 and 47)			
4.7.1 Print suppression latch horizontal clearance between right side of print suppression latch and print suppression code bar should be min. .001", max. .025" (machine in restored position.)			
4.7.2 Print suppression latch vertical clearance between upper part of print suppression latch and print suppression code bar should be min. .005", max. .020". (mach. in rest, pos.			
SIZE	CODE	NUMBER	REV
A	SP	LT33-0-13	

DEC FORM NO 16-1022
DRA 108

SHEET 3 OF 7

ENGINEERING SPECIFICATION		CONTINUATION SHEET	
TITLEASR33 TELETYPE INCOMING INSPECTION PROCEDURES AND ADJUSTMENTS			
4.8 Carriage freedom of horizontal movement. (Ref. Page 51)			
4.8.1 The carriage should move freely side to side with no binding. Make any necessary roller and belt adjustments. (Ref. Pages 51, 52, 54 and 57)			
4.9 Rear rail adjustments. (Ref. Page 53)			
4.9.1 Set up number one code bar in marking position and move carriage side to side. There should be no visible difference between the number one shift slide and the right reset guide plate when in the right or left margins.			
4.10 Front rail and print hammer trip lever release adjustments. (Ref. Page 62)			
4.10.1 Clearance should be minimum .030", maximum .060" measured between print hammer trip lever and print bail.			
4.10.2 Adjustments should remain constant in both margins to within .010".			
4.11 Dash pot adjustment. (Ref. Page 80)			
4.11.1 Typing unit piston should return freely into the dash pot cylinder from any position when moved toward the right margin and released by hand.			
4.12 Line feed adjustments. (Ref. Pages 84 to 92)			
4.12.1 Set up a line feed code in the selector. Release the code bar and clutch. Cycle by hand, while holding the platen detent pawl away from the ratchet until the platen is fully advanced by the feed pawl. At this point slowly release the detent pawl into the ratched gear. There should be very little rotation of the ratched gear as the pawl seats into the gear.			
4.12.2 If adjustmens are necessary, refer to Pages 84 to 92.			
→ APPLY POWER ←			
4.13 Answer back mechanism, operation under power. (Ref. Pages 132 to 146)			
4.13.1 Turn on punch, press "here is" key, see that punch			
SIZE	CODE	NUMBER	REV
A	SP	LT33-0-13	

DEC FORM NO 16-1022
DRA 108

SHEET 4 OF 7

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE ASR33 TELETYPE INCOMING INSPECTION PROCEDURES AND ADJUSTMENTS					
punches blank tape. If not, refer to adjustments Pages 132 to 146.					
→ TURN POWER OFF ←					
5.0 READER					
Section 524-124-700TC, Issue 3, June 1969, Vol. 2, Technical Manual Type ASR33 Teletypewriter.					
5.1 Horizontal and vertical clearance between trip lever and armature extension. (Ref. Pages 6 and 7)					
5.1.1 With reader trip lever fully forward, clearance between reader trip lever and armature extension, should be minimum .008", maximum .020".					
5.1.2 With the armature held all the way down, clearance between reader trip lever and upper part of the armature, should be minimum .001", maximum .010" as the reader trip lever passes over the armature extension.					
5.2 Reader trip contacts. (Ref. Page 8)					
5.2.1 The clearance should be minimum .025", maximum .040" when measured between the contacts when they are open.					
5.3 Feed pawl and blocking pawl adjustments. (Ref. Pages 13 and 15)					
5.3.1 With the machine power on, energize reader armature by tripping reader trip solenoid. Insert FPL83103 Gauge between upstop bracket and upstop shoulder screw. Gauge should enter friction tight, if not follow Teletype Manual for adjusting sequence.					
5.3.2 With the reader in the rest position, the clearance should be minimum .001", maximum .008" when measured between the feed pawl and the ratchet tooth.					
5.3.3 With the reader in rest position the clearance should be minimum .001", maximum .003" when measured between blocking pawl and the ratchet tooth.					
		SIZE A	CODE SP	NUMBER LT33-0-13	REV

ENGINEERING SPECIFICATION				CONTINUATION SHEET	
TITLE ASR33 TELETYPE INCOMING INSPECTION PROCEDURES AND ADJUSTMENTS					
6.0 PUNCH					
Section 574-125-700TC, Issue 4, June 1969, Vol 2, Technical Manual Type ASR33 Teletypewriter.					
6.1 Sensing lever down stop.					
6.1.1 Check screws securing the punch drive arm assembly to the rocker shaft are tight.					
6.1.2 Push sensing levers down by hand, see that they limit on the down stop before they leave the guide post. Position guide post as required to attain this condition.					
6.2 Tape nudger adjustments. (Ref. Page 8)					
6.2.1 Manually rotate the main shaft until the tape nudger is in the fully driven position, the clearance between the tape nudger and the rear roller should be minimum .030" and maximum .080".					
6.3 Total punch operation in static state. (Ref. Pages 5 to 12)					
6.3.1 Put an all marking code in selector, cycle by hand until the feed pawl is fully rearward, at this point check the following:					
A. With the feed wheel ratchet fully detented, move the feed pawl out of engagement with the gear, release slowly and see that it re-enters the gear with no perceptable clearance.					
B. The clearance between the sensing levers and the function pawl should be minimum .005", maximum .020".					
6.3.2 Continue to cycle by hand until the punch drive link is fully forward. The clearance between the punch pin drive levers and the bottom surface of the punch die block assembly, should be minimum .017", maximum .037". (Ref. Page 9)					
6.3.3 Complete the cycle by hand, the clearance between the stripper bail and sensing pawl should be minimum .001", maximum .012". (Ref. Page 7)					
6.4 Turn the power on, punch some tape and check for proper registration with DEC tape gauge T18118.					
		SIZE A	CODE SP	NUMBER LT33-0-13	REV

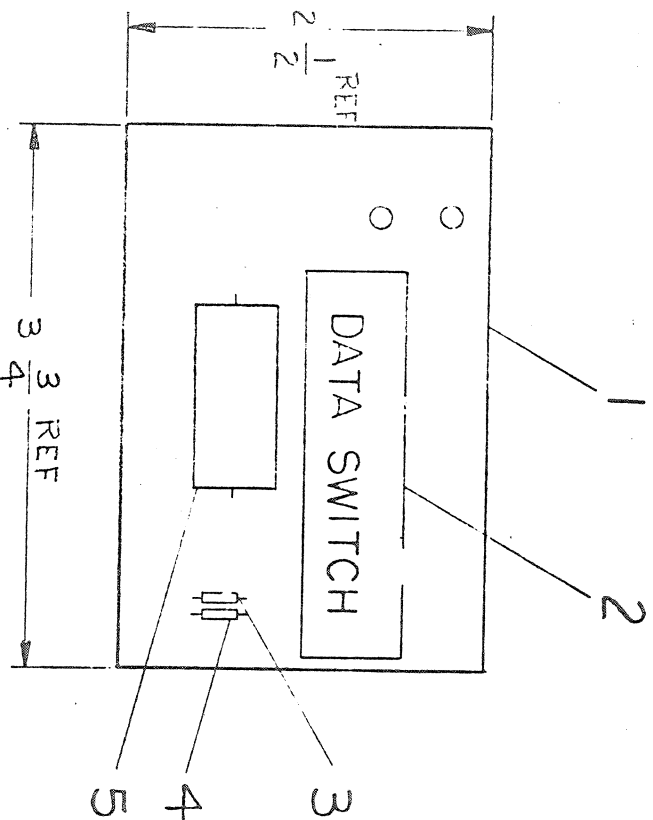
ENGINEERING SPECIFICATION **6190101** CONTINUATION SHEET

TITLE ASR33 TELETYPE INCOMING INSPECTION PROCEDURES AND ADJUSTMENTS

6.4.1 Adjust spring to obtain proper registration within one
half hole over entire gauge. (Ref. Page 12)

		SIZE	CODE	NUMBER	REV
		A	SP	LT33-O-13	

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REVISIONS		
CHK	CHANGE NO.	REV.
DR	ECO * 6886	A
REVISED & REDRAWN		
[Signature]		
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DEC FORM 100
DRB 100

REV. A 0-0-5164 11 B 2 1

QTY.	DESCRIPTION	PART NO.	ITEM NO.
PARTS LIST			
DRN.	DATE	TITLE	
FAY GEE	8-17-65	TELETYPE READER	
CHKD.	DATE	CONTROL 4915	
G. GRAHAM	8-18-65	EQUIPMENT CORPORATION	
ENG.	DATE	MAYNARD, MASSACHUSETTS	
D. A. WHITE	8-20-65		
PROD. ENG.	DATE		
D. A. WHITE	3-20-65		
PROD.	DATE		
D. A. WHITE	8-20-65		
FIRST USED ON			
FINISH	SCALE	SIZE CODE	NUMBER
11	11	B UA	4915-0-0
SHEET 1 OF 1	DIST.	REV.	
2	1	A	