digital

LT33

Engineering Drawings

Digital Equipment Corporation

digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS

DRAWING DIRECTORY

CUSTOMER PRINT SET INDEX

THIS IS PRINT SET ☐☐☐☐

UNIT VARIATIONS

VAR	TITLE	PRINT SET
LT33-AA	KSR 115 V 6Ø Hz 4-PIN PLUG	XX
-AB	KSR 24Ø V 5Ø Hz 4-PIN PLUG	X
-BC	ASR 115 V 6Ø Hz 4-PIN X-ON	X
-BD	ASR 24Ø V 5Ø Hz 4-PIN X-ON	X
-CC	KSR 115 V 6Ø Hz MATE-N-LOK PLUG	X
-CD	KSR 24Ø V 5Ø Hz MATE-N-LOK PLUG	X
-CE	KSR 1ØØ V 5Ø Hz MATE-N-LOK PLUG	X
-DC	ASR 115 V 6Ø Hz MATE READER RUN	X
-DD	ASR 24Ø V 5Ø Hz MATE READER RUN	X
-DE	ASR 1ØØ V 5Ø Hz MATE READER RUN	X
-EA	ASR 115 V 6Ø Hz MATE MAN READER	X
-EB	ASR 24Ø V 5Ø Hz MATE MAN READER	X
-HC	ASR 115 V 6Ø Hz MATE X-ON	X
-HD	ASR 24Ø V 5Ø Hz MATE X-ON	X
-RA	ASR 115 V 6Ø Hz BURNDY READER RUN	X
-RB	ASR 24Ø V 5Ø Hz BURNDY READER RUN	X
-SB	SPARE PARTS KIT, ASR	X
-ST	TOOL KIT	X
-MA	MOD KIT ASR WØ76 READER RUN	X
-MB	MOD KIT ASR MATE READER RUN	X
-MC	MOD KIT KSR WØ76	X
-MD	MOD KIT KSR MATE-N-LOK PLUG	X

REVISIONS	DATE	CHG. NO.	REV
	8/73	REVISED & REDRAWN LT33-8	J
	1/74	LT33-9	K
	allan Kent 19Feb74		
	6/74	LT33-10	L
	allan Kent 3 July 74		

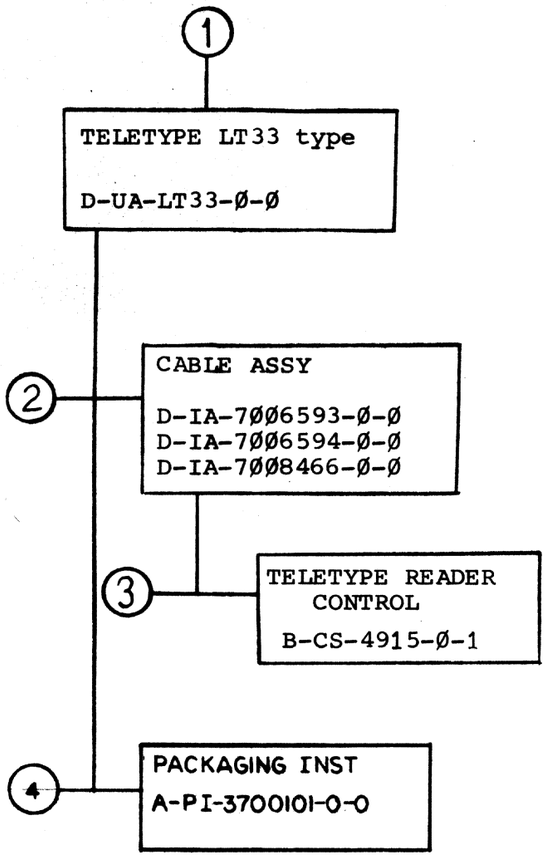
DEC 16-12231-1062-1A-8972

DRB 106

USED ON OPTION/MODEL
SEE "VAR" ABOVE

SHEET 1 OF 3

DRN. ArKENT	DATE 21AUG73	TITLE TELETYPEWRITERS LT33	
CHK'D. allan Kent	DATE 21 Aug '73		
PROJ ENG. allan Kent	DATE 21 Aug '73		
PROD.	DATE	SIZE B / CODE DD / NUMBER LT33 - Ø	REV L
FIELD SERV. Walter MacKenzie	DATE 8-22-73	DIST	



TITLE		SIZE	CODE	NUMBER	REV
TELETYPEWRITERS LT33	SHEET 2 OF 3	B	DD	LT33 - Ø	L

ELECTRICAL

CUSTOMER PRINT SET				MFG. SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
X					1	C-PL-LT33-Ø-Ø	B	3	SETUP & REWORK PROC. FOR 33ØØ	
X						D-UA-LT33-Ø-Ø	B	8	SETUP & REWORK PROC. FOR 33ØØ	
X						A-AL-LT33-Ø-12	C	1	ACCESSORY LIST LT33 SERIES	
X						A-PL-LT33-SB-Ø	*	1	RECOMMENDED SPARE PARTS	
X						A-PL-LT33-ST-Ø	A	2	MAINTENANCE TOOL KIT LT33	
X						A-SP-LT33-Ø-1Ø	B	1	PACKING PROCEDURE	
X						A-SP-LT33-Ø-11	B	1	INSTALLATION PROCEDURE	
X						A-SP-LT33-Ø-13	A	7	INSPECTION PROCEDURES & ADJUST.	
						A-PS-3Ø11294-Ø-Ø		22	PURCHASE SPEC. 33ØØ TELETYPES	
X					3	B-CS-4915-Ø-1	#	1	TELETYPE READER CONTROL	
X						D-BS-LT33-B-CONT	B	1	READER CONTROL CIRCUITS	
X						D-IC-LT33A-Ø-1	A	1	PDP1Ø TELETYPE MODEL 33KSR	
						THE FOLLOWING SPECIFICATION IS TO BE SUPPLIED UPON CUSTOMER REQUEST:				
						A-SP-LT33-Ø-14	*	44	LT33 TYPE PROGRAMMING SPEC.	
						THE FOLLOWING DRAWINGS ARE "INACTIVE" AND ARE LISTED HERE FOR HISTORIC REFERENCE. THE DRAWINGS LISTED ABOVE REPLACE THESE DRAWINGS.				
						D-IA-75Ø5Ø38-Ø-Ø	D	2	TELETYPE MODIFICATIONS (LT33)	
						D-IA-75Ø5Ø39-Ø-Ø	D	1	TELETYPE MODIFICATIONS (5ØHz&24ØV)	
						D-IA-75Ø5Ø41-Ø-Ø	B	1	TELETYPE MODIFICATIONS (33KSR)	
						D-UA-LT33A-Ø-Ø	A	1	PDP1Ø TELETYPE 33KSR	
						A-PL-LT33A-Ø-Ø	A	1	PDP1Ø TELETYP E 33KSR (PL)	
						D-UA-LT33-B-Ø	B	1	DEC MODIFIED TELETYPE 33ASR	
						A-PL-LT33-B-Ø	B	1	DEC MODIFIED TELETYPE 33ASR (PL)	

MECHANICAL

CUSTOMER PRINT SET				MFG SET	FIND NO.	DRAWING NO.	REV	NO OF SHT	DESCRIPTION	OPTION NO./FILE DATE
					1	D-UA-LT33-Ø-Ø	B	8	SETUP & REWORK PROC. FOR 33ØØ	
						C-PL-LT33-Ø-Ø	B	3	SETUP & REWORK PROC. FOR 33ØØ	
						A-DC-74Ø9Ø45-Ø-2		1	DECAL VOLATAGE SPEC	
					2	D-IA-7ØØ6593-Ø-Ø	#		4915 TO MATE-N-LOK ASSY	
						D-IA-7ØØ6594-Ø-Ø	#		TTY TO MATE-N-LOK ASSY 4 COND	
						D-IA-7ØØ8466-Ø-Ø	#		4915 TO BURNDY CABLE ASSY	
						THE FOLLOWING CABLE IS USED ON THE OBSOLETE LT33-DA and -DB.				
						D-AD-7ØØ5676-Ø-Ø	#		4915 TO WØ76 CABLE ASSY	
					4	A-PI-3700101-0-0			PACKAGING INSTRUCTIONS	
						A-PS-9905147			REGULAR SLOTTED CARTON	
						A-PS-9905347			SPECIAL DIE CUT SPACER	

CUSTOMER PRINT SET CODES

X = PRINT OF DOCUMENT INCLUDED IN PRINT SET
C = INCLUDES ALL PRINTS INDICATED ON DOCUMENT
S = CONFIDENTIAL AUTHORIZED SIGNATURE REQUIRED

TITLE	SHEET	SIZE	CODE	NUMBER	REV
TELETYPEWRITERS LT33	3 OF 3	B	DD	LT33 - Ø	L

DRB 108

DEC 16-(325)-1062-2B-R972

	FEATURES		-AA	-AB	-BA**	-BB**	-BC	-BD	-CA (OBS	-CB (OBS	-CC	-CD	-CE	-DA (OBS	-DB (OBS	-DC	-DD	-DE	-EA ǂ	-EB ǂ	-FA (OBS)	-FB (OBS)	-HA**	-HB**	-HC	-HD	-RA	-RB	
	LINE VOLTAGE	1=115V 6ØHZ 2=23ØV 5ØHZ Ø=1ØØV 5ØHZ	1	2	1	2	1	2	1	2	1	2	Ø	1	2	1	2	Ø	1	2	1	2	1	2	1	2	1	2	
	INTERFACE CONNECTOR	4=WECO 283B,W=WØ76, M=MATE-N-LOCK, B=BUNDY	4	4	4	4	4	4	W	W	M	M	M	W	W	M	M	M	M	M	W	W	M	M	M	M	B	B	
D	KEYBOARD (UPPERCASE)	E=EVEN PARITY N=NO PARITY(8TH BIT MARKING)	E	E	E	E	E	E	N	N	E	E	E	N	N	N	N	N	E	E	N	N	E	E	E	E	N	N	D
	PRINTER	F=FRICTION FEED S=SPROCKET FEED	F	F	S	S	F	F	F	F	F	F	F	F	F	F	F	F	F	F	S	S	S	S	F	F	F	F	
	PAPER TAPE RDR/PUNCH	Ø=NONE,R=RDR RUN MOD,A=AUTO,M=MANUAL	Ø	Ø	A	A	A	A	Ø	Ø	Ø	Ø	Ø	R	R	R	R	R	M	M	R	R	A	A	A	A	R	R	
	ANSWERBACK	Ø=NONE,D=DISABLED,A=ANSWERBACK	A	A	A	A	A	A	D	D	A	A	A	D	D	D	D	D	A	A	D	D	A	A	A	A	D	D	
1	A-PS-3Ø11294-Ø1	TELETYPE CAT.NO. 331Ø/3EA KSR 6Ø HZ	1	-			-	-			1	-	-			-	-	-	-	-					-	-	-	-	
1	A-PS-3Ø11294-Ø2	TELETYPE CAT.NO. 331Ø/3SA KSR 5Ø HZ	-	1			-	-			-	1	1			-	-	-	-	-					-	-	-	-	SEE NOTE 1
1	A-PS-3Ø11294-Ø3	TELETYPE CAT.NO. 3321/3JA MAN ASR 6Ø HZ	-	-			-	-			-	-	-			1	-	-	1	-					-	-	1	-	
1	A-PS-3Ø11294-Ø4	TELETYPE CAT.NO. 3321/3WD MAN ASR 5Ø HZ	-	-			-	-			-	-	-			-	1	1	-	1					-	-	-	1	SEE NOTE 1
1	A-PS-3Ø11294-Ø5	TELETYPE CAT.NO. 332Ø/3JA MAN ASR 6Ø HZ	-	-			-	-			-	-	-			*	-	-	*	-					-	-	*	-	SEE NOTE 2
1	A-PS-3Ø11294-Ø6	TELETYPE CAT.NO. 332Ø/3WA MAN ASR 5Ø HZ	-	-			-	-			-	-	-			-	*	*	-	*					-	-	-	*	SEE NOTE 1&2
1	A-PS-3Ø11294-Ø7	TELETYPE CAT.NO. 332Ø/5JA AUTO ASR 6Ø HZ	-	-			1	-			-	-	-			-	-	-	-	-				1	-	-	-	-	
1	A-PS-3Ø11294-Ø8	TELETYPE CAT.NO. 332Ø/5WA AUTO ASR 5Ø HZ	-	-			-	1			-	-	-			-	-	-	-	-					-	1	-	-	SEE NOTE 1
1A	1211394	"TD" TYPEWHEEL TELETYPE P.N. 1855Ø8	1	1			1	1			1	1	1			*	*	*	*	*					1	1	*	*	
2	A-PS-1205693	CORD 4 COND	1	1			1	1			-	-	-			-	-	-	-	-					-	-	-	-	
3	A-PS-1205857-01	TELEPHONE PLUG 283B-5Ø	1	1			1	1			-	-	-			-	-	-	-	-					-	-	-	-	
4	A-PS-1205857-02	TELEPHONE JACK 4Ø4B-5Ø	1	1			1	1			-	-	-			-	-	-	-	-					-	-	-	-	
5	D-IA-7ØØ6593-1-Ø	4915 TO MATE-N-LOCK ASSY (12 FT) 6 COND	-	-			-	-			-	-	-			1	1	1	—	—					-	-	-	-	
5	D-IA-7ØØ8466-12-Ø	4915 TO BURNDY CABLE ASSY (12 FT)	-	-			-	-			-	-	-			-	-	-	-	-					-	-	1	1	
5	D-IA-7ØØ6594-1-Ø	TTY TO MATE-N-LOCK ASSY (12 FT) 4 COND	-	-			-	-			1	1	1			-	-	-	1	1				1	1	-	-		
6	2911459	PIN TELETYPE 82644	-	-			-	-			-	-	-			1	1	1	-	-					-	-	1	1	
7	9ØØ7929	SOLDERLESS TERM #6 RING 18-22 AWG	5	5			5	5			3	3	3			5	5	5	3	3					3	3	5	5	
8	11ØØ1Ø6	THYRECTOR G.E. 6RS2ØSP4B4	2	2			2	2			2	2	2			2	2	2	2	2					2	2	2	2	
9	1ØØØØ63	CAPACITOR 1µF ± 10% 15ØV	1	1			1	1			-	-	-			-	-	-	-	-					-	-	-	-	
10	9ØØ62Ø-1	SCREW PH.HD PAN 6-32 x 1/4	-	-			-	-			-	-	-			2	2	2	-	-					-	-	2	2	
11	9ØØ7Ø32	CABLE TIE 3/16 x 6-½ LG SST2-M	-	-			-	-			2	2	2			2	2	2	2	2					2	2	2	2	
12	9ØØ7Ø31	CABLE TIE 3/32 x 3-3/4 LG SST1-M	-	-			-	-			-	-	-			15	15	15	-	-					-	-	15	15	
13	A-PS-16Ø9313	AUTOTRANSFORMER 3 AMP	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1	
14	9ØØ6Ø37-1	SCREW PH. HD. PAN 8-32 x 3/8	-	4			-	4			-	4	4			-	4	4	-	4					-	4	-	4	
15	9ØØ669Ø	LOCK WASHER #8	-	4			-	4			-	4	4			-	4	4	-	4					-	4	-	4	
16	9ØØ6661	FLAT WASHER #8	-	4			-	4			-	4	4			-	4	4	-	4					-	4	-	4	
17	9ØØ6561	HEX NUT 8-32 x 5/16 x 1/8	-	4			-	4			-	4	4			-	4	4	-	4					-	4	-	4	
18	91Ø7673-12	CORD SET 12 FT	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1	
19	9ØØ7928	SOLDERLESS TERM #1Ø RING 14-16 AWG	-	2			-	2			-	2	2			-	2	2	-	2					-	2	-	2	
2Ø	9ØØ8853	CAP 23ØV NEMA 6-15P	-	1			-	1			-	1	-			-	1	-	-	1					-	1	-	-	
2Ø	A-PS-121Ø561	CAP HUBBELL #7594 (115V)	-	-			-	-			-	-	-			-	-	-	-	-					-	-	1	-	
2Ø	A-PS-121Ø564	CAP HUBBELL #7485 (23ØV)	-	-			-	-			-	-	-			-	-	-	-	-					-	-	-	1	

ǂ NO KNOWN USAGE
** WILL BECOME OBSOLETE WHEN PRESENT STOCK IS EXHAUSTED (SPROCKET FEED)
* SEE NOTE 2

REVISIONS	REV.
CHK	—
CHANGE NO.	—
	ORIGINATED
	A
	LT33-00009
	R. Duncan 1-29-74
	A, KENT
	Allan Kent 11 Feb 74
	B
	LT33-00010
	J. Chartier 6-25-74
	KENT
	Allan Kent 3 July 74

FIRST USED ON OPTION/MODEL

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

		DATE
DRN.	S. Chartier	4-20-73
CHK'D.		DATE
ENG.	Allan Kent	DATE 14 June 73
PROJ. ENG.	Allan Kent	DATE 22 Aug 73
PROD.		DATE 8-31

NEXT HIGHER ASSY. D-UA-LT33-Ø
SCALE
SHEET 1 OF 3

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE SET UP & REWORK PROCEDURE FOR TTY3300 SERIES TTY WRITERS

SIZE	CODE	NUMBER	REV.
C	PL	LT33-Ø-Ø	B

DIST.

REV. B
NUMBER LT33-Ø-Ø
SIZE C CODE PL

DEC FORM NO. DRC 110

ITEM	DWG/PART NO.	DESCRIPTION	-AA	-AB	-BA**	-BB**	-BC	-BD	-CA (OBS)	-CB (OBS)	-CC	-CD	-CE	-DA (OBS)	-DB (OBS)	-DC	-DD	-DE	-EA	-EB	-FA (OBS)	-FA (OBS)	-HA**	-HB**	-HC	-HD	-RA	-RB
21	121Ø563	RUBBER CAP COVER HUBBELL 744Ø	-	-			-	-			-	-	-			-	-	-	-	-					-	-	1	1
22	A-DC-74Ø9Ø45-0-2	DECAL VOLTAGE SPEC	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1
23	1211375	FUNCTION LEVER STOP CLIP (SHORT) 186781	-	-			-	-			-	-	-			1	1	1	-	-					-	-	1	1
24	91Ø7278-Ø2	TUBING RED #18 TEF	A/R	A/R			A/R	A/R			A/R	A/R	A/R			A/R	A/R	A/R	A/R	A/R					A/R	A/R	A/R	A/R
28	A-PI-37ØØ1Ø1-Ø-Ø	CONSOLIDATED SHIPPING PACKAGE	1	1			1	1			1	1	1			1	1	1	1	1					1	1	1	1
3Ø	12Ø4789	MOTOR 5Ø HZ TELETYPE 182267	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1
31	12Ø485Ø	DRIVE GEAR 50 HZ TELETYPE 181855	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1
32	12Ø4849	PINION GEAR 5Ø HZ TELETYPE 181851	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1
33	12Ø4848	PLATE W/STUD TELETYPE 18185Ø	-	A/R			-	A/R			-	A/R	A/R			-	A/R	A/R	-	A/R					-	A/R	-	A/R
34	2911553	AIR DEFLECTOR TELETYPE 182183	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1
35	2911554	FAN 3 INCH TELETYPE 182181	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1
36	1211423	FUSE 1.8 AMP SLO-BLO TELETYPE 32Ø246	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1
37	1211396	FUSE IDENT PLATE 1.8A TELETYPE 182Ø69	-	1			-	1			-	1	1			-	1	1	-	1					-	1	-	1
	PROCEDURE I	CONVERT 6Ø HZ MACHINE TO 5Ø HZ	-	A/R			-	A/R			-	A/R	A/R			-	A/R	A/R	-	A/R					-	A/R	-	A/R
	PROCEDURE IIa.	MODIFY LINE VOLTAGE TO 24ØV	-	X			-	X			-	X	-			-	X	-	-	X					-	X	-	X
	PROCEDURE IIb.	MODIFY LINE VOLTAGE TO 1ØØV	-	-			-	-			-	-	X			-	-	X	-	-					-	-	-	-
	PROCEDURE III	INSTALL DIFFERENT LINE PLUG (CAP)	-	X			-	X			-	X	-			-	X	-	-	X					-	X	X	X
	PROCEDURE IV	INSTALL THYRECTORS	X	X			X	X			X	X	X			X	X	X	X	X					X	X	X	X
	PROCEDURE V	ACTIVATE AUTO PUNCH	-	-			X	X			-	-	-			-	-	-	-	-					X	X	-	-
	PROCEDURE VI	CONVERT KEYBOARD TO 8" BIT "1"	-	-			-	-			-	-	-			X	X	X	-	-					-	-	X	X
	PROCEDURE VII	INHIBIT ANSWER BACK BY ENQ (WRU)	-	-			-	-			-	-	-			X	X	X	-	-					-	-	X	X
	PROCEDURE VIII	INSTALL "TD" TYPEWHEEL	X	X			X	X			X	X	X			SEE	NOTE	2	SEE	NOTE	2				X	X	SEE	NOTE 2
	PROCEDURE IX	ARRANGE FOR 2ØmA FULL DUPLEX	X	X			X	X			X	X	X			X	X	X	X	X					X	X	X	X
	PROCEDURE X	INSTALL 1µF CAPACITOR	X	X			X	X			-	-	-			-	-	-	-	-					X	X	-	-
	PROCEDURE XI	INSTALL READER RUN ASSY (4915) AND CABLE	-	-			-	-			-	-	-			X	X	X	-	-					-	-	X	X
	PROCEDURE XII	INSTALL MATE-N-LOK INTERFACE CABLE	-	-			-	-			X	X	X			-	-	-	X	X					X	X	-	-
	PROCEDURE XIII	INSTALL TELEPHONE PLUG, JACK & CABLE	X	X			X	X			-	-	-			-	-	-	-	-					-	-	-	-
	PROCEDURE XIV	INSTALLATION ON STAND	X	X			X	X			X	X	X			X	X	X	X	X					X	X	X	X

7 SEE NOTE 1

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.	D. Chartier	DATE 4-20-73
CHK'D.	D. Josaz	DATE 5-22-73
ENG.	Allan Kent	DATE 14 June 73
PROJ. ENG.	Allan Kent	DATE 29 Aug 73
PROD.		DATE 9-21-73

NEXT HIGHER ASSY. D-UA-LT33-Ø-Ø

SCALE

SHEET 2 OF 3

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE SET UP & REWORK PROCEDURE FOR TTY3300 SERIES TTY WRITERS

SIZE	CODE	NUMBER	REV.
C	PL	LT33-Ø-Ø	B

DIST.

REVISIONS | REV. | CHANGE NO. | CHK

DEC FORM NO. DRC 110

NOTES TO PARTS LIST

1. IN ALL CASES 60 HZ MACHINES CAN BE REWORKED FOR 5Ø HZ OPERATION INSTEAD OF STOCKING 5Ø HZ UNITS. ON THE BASIS OF EXPECTED VOLUME, INITIAL 5Ø HZ STOCKING IS EXPECTED TO BE AS FOLLOWS (REWORK PROCEDURE I)

DESC	5Ø HZ P.N.	STATUS	ALTERNATIVE
KSR	3Ø11294-Ø2	REWORK 3Ø11294-Ø1	STOCK
MAN ASR(TD)	3Ø11294-Ø4	STOCK	REWORK 3Ø11294-Ø3
MAN ASR(TV)	3011294-Ø6	REWORK 3Ø11294-Ø5	SEE NOTE 2
AUTO ASR	3Ø11294-Ø8	REWORK 3Ø11294-Ø7	STOCK

2. WITH THE EXCEPTION OF 3Ø11294-Ø3 (6Ø HZ) AND 3Ø11294-Ø4 (5Ø HZ) (BOTH MANUAL ASR WITH "TD" TYPEWHEEL) ALL UNITS MUST BE REWORKED BY REPLACING THE "TV" TYPEWHEEL SUPPLIED WITH A "TD" TYPEWHEEL. THE -Ø3 AND -Ø4 MACHINES ARE SPECIALS AND MAY SOMETIMES BE IN SHORT SUPPLY. THE -Ø5 AND -Ø6 MACHINES MAY BE SUBSTITUTED AS FOLLOWS:

DESCRIPTION	PART NO. NEEDED	ALTERNATIVES
MAN ASR (TD) 6Ø HZ	3Ø11294-Ø3	REWORK (IX) 3Ø11294-Ø5
MAN ASR (TD) 5Ø HZ	3Ø11294-Ø4	REWORK (IX) 3Ø11294-Ø6 OR REWORK (I & IX) 3Ø11294-Ø5

MODIFICATION KITS

LT33-MA "ASR for 8, 8/I, 8/L, 8/S"
USE PARTS LIST FOR LT33-DC OMITTING ITEMS 1, 1A, AND 5. IN ADDITION, ONE CABLE ASSY 4915 TO WØ76 P.N. 7ØØ5676-1 IS REQUIRED. FOLLOW PROCEDURES FOR LT33-DC.

LT33-MB "ASR for 8/E, 11, 15"
USE PARTS LIST FOR LT33-DC OMITTING ITEMS 1 AND 1A. FOLLOW PROCEDURES FOR LT33-DC.

LT33-MC "KSR for 8, 8/I, 8/L, 8/S"
USE PARTS LIST FOR LT33-CC OMITTING ITEMS 1, 1A, AND 5. IN ADDITION, ONE CABLE ASSY TTY TO WØ76 P.N. 7ØØ5Ø11-1 IS REQUIRED. FOLLOW PROCEDURES FOR LT33-CC.

LT33-MD "KSR for 8/E, 11, 15"
(Also for LT33-E or -H type.)
USE PARTS LIST FOR LT33-CC OMITTING ITEMS 1 AND 1A. FOLLOW PROCEDURES FOR LT33-CC.

ALTERNATIVELY, A WØ78 ADAPTER MODULE ADDED TO AN LT33-MB OR LT33-MD KIT CAN BE USED WHEN AN LT33-MA OR LT33-MC KIT IS REQUIRED.

REVISIONS	CHANGE NO.	CHK
REV.		

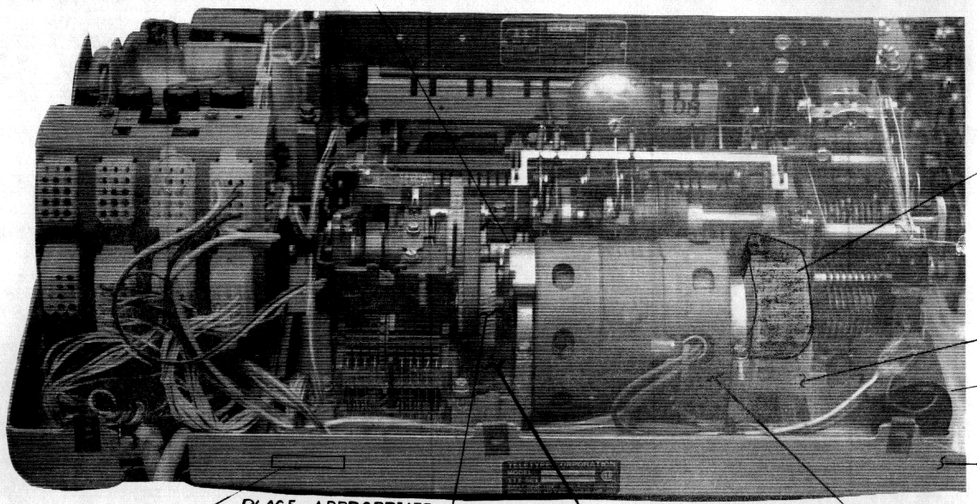
FIRST USED ON OPTION/MODEL	QTY.	DESCRIPTION	PART NO.	ITEM NO.
		PARTS LIST		

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 —

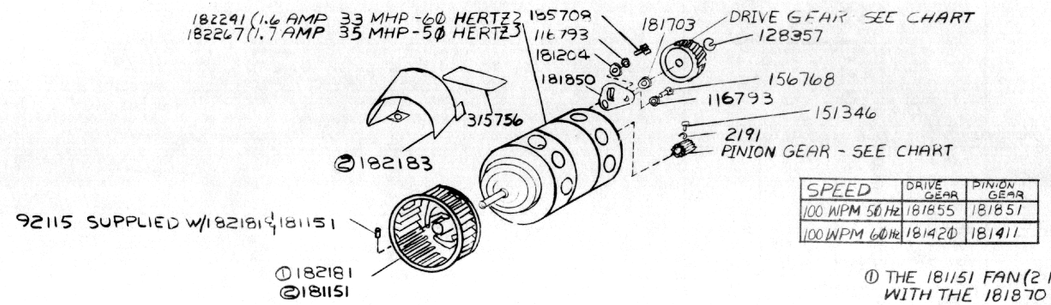
DRN. S. Charter	DATE 4-20-73	digital EQUIPMENT CORPORATION MAYNARD MASSACHUSETTS
CHK'D.	DATE	
ENG. Allan Kent	DATE 14 June 73	TITLE SET UP & REWORK PROCEDURE FOR TTY3300 SERIES TTY WRITERS
PROJ. ENG. Allan Kent	DATE 22 Aug 73	
PROD.	DATE	
NEXT HIGHER ASSY. D-UA-LT33-Ø-Ø		SIZE C, CODE PL, NUMBER LT33-Ø-Ø, REV. B
SCALE		
SHEET 3 OF 3		DIST.

SIZE C, CODE, NUMBER LT33-Ø-Ø, REV. B

DEC FORM NO. DRC 100-A



DETAIL "A"
(REAR VIEW WITH COVER REMOVED)



SPEED	DRIVE GEAR	PINION GEAR
100 WPM 50 Hz	181855	181851
100 WPM 60 Hz	181420	181411

① THE 181151 FAN (2 1/2" DIA.) IS USED WITH THE 181870 AND 182291 MOTORS.
② THE 182181 FAN (3" DIA.) AND THE 182183 AIR DEFLECTOR ARE USED WITH THE 182267 MOTOR.

DETAIL "B"
MOTOR ASSY EXPLODED VIEW
(TAKEN FROM TELETYPE
SEC. 574-122-800TC
ISS. 7 PAGE 35)

PROCEDURE I

CONVERT 60 Hz MACHINE TO 50 Hz
SEE DETAIL A & B)

A. REMOVE 182241 SPLIT-PHASE START MOTOR AND REPLACE WITH ITEM #30 (NOT NECESSARY IF MOTOR IS ALREAD RATED 50/60 Hz ON NAME PLATE) IF 181870 CAPACITOR START MOTOR IS ENCOUNTERED MOTOR START CAPACITOR MUST ALSO BE REMOVED WHEN INSTALLING ITEM #30. SEE 1180 SD-810 AND 4405 WD. (TELETYPE DRAWINGS)
B. REMOVE 181416 PLATE WITH STUD AND REPLACE WITH ITEM #33 (NOT NECESSARY WHEN 181850 PLATE WITH STUD (UNIVERSAL) IS SUPPLED (NOW STANDARD). 181850 PART IS IDENTIFIED BY LONG ADJUSTMENT SLOT.)
C. REMOVE 181420 DRIVE GEAR AND REPLACE WITH ITEM #31
D. REMOVE 181411 PINION GEAR AND REPLACE WITH ITEM #32.
E. REMOVE 181151 FAN (2 1/2 INCH DIA.) AND REPLACE WITH ITEM #35 (3 INCH DIA. FAN). (NOT NECESSARY) IF 3 INCH DIA. FAN ALREADY SUPPLIED.)
F. ADD AIR DEFLECTOR ITEM #34 OVER FAN
G. REPLACE MOTOR FUSE (2 OR 2 1/4 AMP) WITH 1.8 AMP SLO-BLO ITEM #36. CHANGE FUSE LABEL TO ITEM #37.
H. PLACE APPROPRIATE FREQUENCY DECAL ITEM #22 ON REAR OF MACHINE

REVISIONS	CHK	CHANGE NO.	REV.
ORIGINATED	—	LT33-00008	—
Q. Bowers 1-30-74		LT33-00009	A
A. KENT Manfact 4 Feb 74			
J. Chastain 6-25-74		LT33-00010	B
KENT Allen Kent 3 July 74			

NEXT HIGHER ASSY	QTY.	DESCRIPTION	PART NO.	ITEM NO.
B-DD-LT33-Ø		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. R. Cantt DATE 4-30-73
CHK'D DATE 8/22/73
ENG. Allen Kent DATE 14 June 73
PROJ. ENG. Allen Kent DATE 17 Aug 73
PROD. DATE 8-29-73

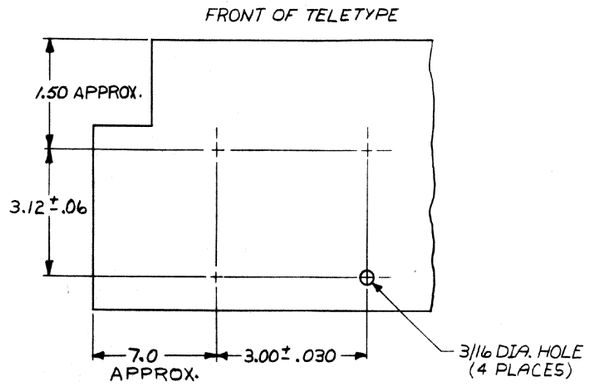
FIRST USED ON LT33 TYPE
SCALE NONE
SHEET 1 OF 8

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE SET-UP & REWORK PROCEDURE FOR TTY 3300 SERIES TTY WRITERS

SIZE D | CODE UA | NUMBER LT33-Ø-Ø | REV. B
DIST.

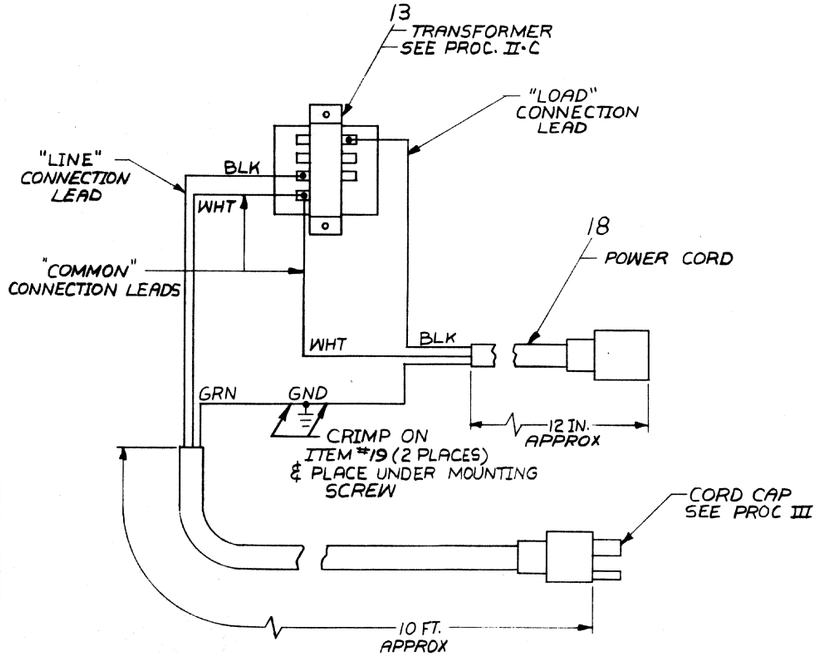
DEC FORM NO. DRD 102A



REAR OF TELETYPE
SCALE : NONE

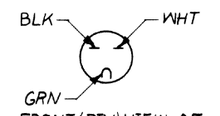
HOLE DRILLING DIAGRAM FOR MOUNTING OF TRANSFORMER, ITEM #5, TO PLATE INSIDE BOTTOM OF BASE. (PROC. II·A)

DETAIL "C"

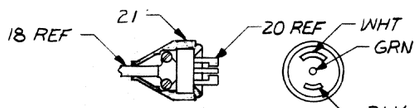


TRANSFORMER MOUNTING & WIRING

DETAIL "D"

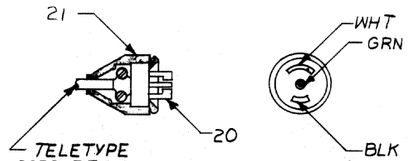


FRONT (PIN) VIEW OF MALE PLUG ITEM #20
230V
NEMA 6-15P CAP



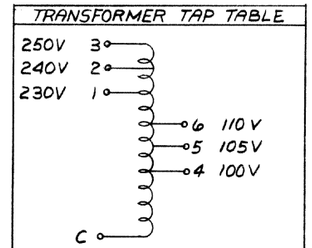
ITEM #21 OVER ITEM #20
FRONT PIN VIEW OF MALE PLUG ITEM #20
230V
HUBBEL #7485 CAP

DETAIL "E"
CORD CAP WIRING
(PROC III)



PIN VIEW OF MALE PLUG ITEM #20
115V
HUBBEL #7594 CAP

TRANSFORMER TAP TABLE



VOLTAGE	LINE	LOAD	COMMON
126	6	4	C
121	5	4	C
115	6	6	C
110	5	4	1
106.	6	4	1
100*	1	3	4
96	C	1	5
90	C	2	5
85	C	3	6
82	C	2	4
77	C	3	4

b.

VOLTAGE	LINE	LOAD	COMMON
287	3	4	C
275	2	4	C
274	3	5	C
265	1	4	C
263	2	5	C
260	3	6	C
252	1	5	C
250	2	6	C
240*	1	6	C
220	C	6	1
213	C	6	2
213	C	5	1
206	C	6	3
204	C	5	2
203	C	4	1
198	C	5	3
197	C	4	2
193	C	4	3

a.

* INDICATES STD FACTORY CONNECTIONS

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

PROCEDURE II
MODIFY LINE VOLTAGE
(INSTALL TRANSFORMER)

SEE DETAIL A, C, AND D

FOR OPERATION ON VOLTAGES OTHER THAN 115V PERFORM THE FOLLOWING OPERATIONS:

A. DRILL FOUR 3/16 INCH DIA. HOLES IN BASE MOUNTING PLATE AS SHOWN IN DETAIL "C"
B. MOUNT TRANSFORMER ITEM #13 WITH ITEM #14 THRU ITEM #17.
C. CUT CORDSET ITEM #18 AS SHOWN AND WIRE PER TABLE AND DETAIL "D" USING ITEM #19.
D. PLUG TELETYPES CORD INTO FEMALE RECEPTACLE PART OF ITEM #18
E. PLACE APPROPRIATE VOLTAGE DECAL ITEM #22 AS SHOWN IN DETAIL "A".

PROCEDURE III
CHANGE MALE CORD CAP
SEE DETAIL "D" AND "E"

A. DETERMINE FROM PARTS LIST WHICH CAP IS TO BE PUT ON.
B. IF TRANSFORMER ITEM #13 IS INSTALLED CUT OFF THE MALE CAP FROM THE CORDSET ITEM #18, OTHERWISE CUT OFF THE MALE CAP FROM THE TELETYPE'S CORD.
C. SLIDE THE COVER ITEM #21 IF REQUIRED ONTO THE CORD AND WIRE THE CAP ITEM #20 AS SHOWN IN DETAIL "E".
D. FIT THE COVER IF USED OVER THE CAP AS SHOWN IN DETAIL "E".

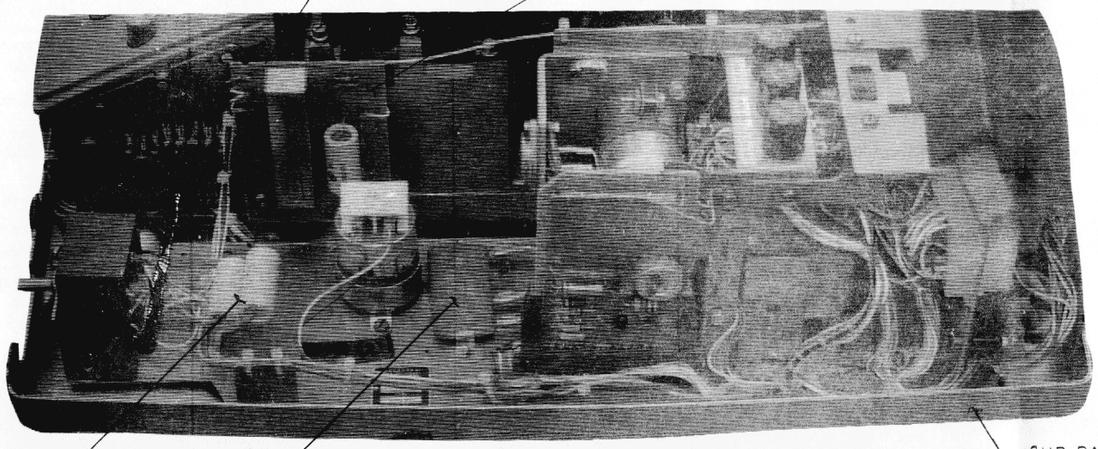
NOTE:

PDP-9 AND EARLY PDP-10 TELETYPES WERE SUPPLIED WITH A NEMA 5-15P (115V) CAP PAINTED RED WHEN WIRED FOR 190 TO 250 VOLTS

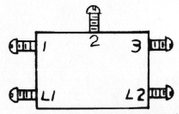
REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
SET UP & REWORK PROCEDURE FOR TTY 3300 SERIES TTYWRITERS	D	UA	LT33-0-0	B
SCALE NONE	SHEET 2 OF 3	DIST.		

DEC FORM 105
DRD 137

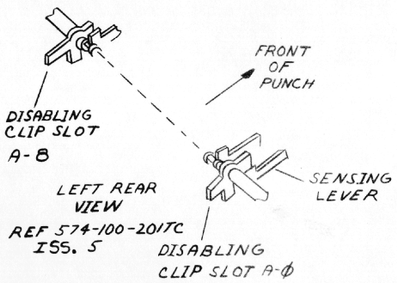


DETAIL "F"
(RIGHT SIDE VIEW)



TERMINAL LOCATION
REAR VIEW OF
ON-OFF-LOCAL
SWITCH
SEE PROC IV
DETAIL "G"

FROM	TERMINAL	COMPONENT	TO	TERMINAL
L2	ITEM#7	THYRECTOR ITEM#8	2	ITEM#7
1	ITEM#7	THYRECTOR ITEM #8		



DETAIL "H"
SEE PROC. V

PROCEDURE IV
INSTALL THYRECTORS
SEE DETAILS "F" & "G"

A. CUT TUBING ITEM #24 AND PLACE ON LEADS OF THYRECTORS ITEM #8
B. PULL BACK THE RUBBER BOOT WHICH COVERS THE TERMINALS ON THE LINE OFF-LOCAL SWITCH
C. INSTALL THYRECTORS USING TERMINAL ITEM #7 PER TABLE IN DETAIL "G"
D. IF RELAY CONTROLLED READER (READER RUN) MODIFICATION IS NOT GOING TO BE INSTALLED (PROCEDURE XI) REPLACE RUBBER BOOT SO ALL TERMINALS ARE COVERED.

PROCEDURE V
ACTIVATE AUTOMATIC PUNCH
(CONTROLLED BY DC2 & DC4)
SEE DETAIL "H"

A. TO ACTIVATE THE AUTOMATIC PUNCH FEATURE (PUNCH CONTROLLED BY DC2 & DC4) REMOVE THE TWO DISABLING CLIPS SHOWN IN DETAIL "H"

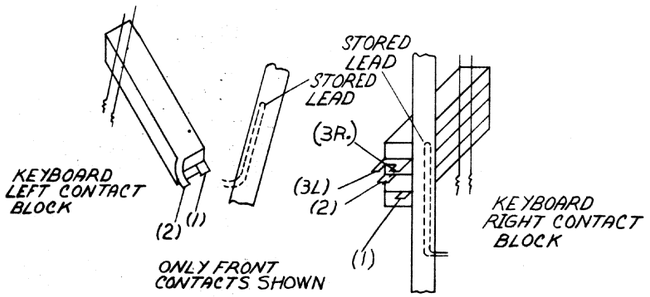
NOTE:
TO INACTIVATE AUTO PUNCH FEATURE INSTALL TWO TELETYPE P.N. 187001 CLIPS, ONE IN EACH SLOT SHOWN IN DETAIL "H". (RECEIVED WITH AUTO PUNCH INACTIVATED)

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SIZE	CODE	NUMBER	REV.
SET-UP & REWORK PROCEDURE FOR TTY 3300 SERIES TTY WRITERS	D	UA	LT33-Ø-Ø	B
SCALE	SHEET 3 OF 8		DIST.	

DEC FORM 1-0
DRD 137

KEYBOARD PARITY MODIFICATIONS

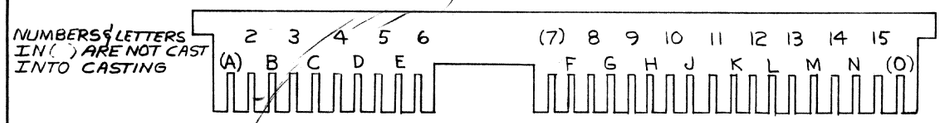


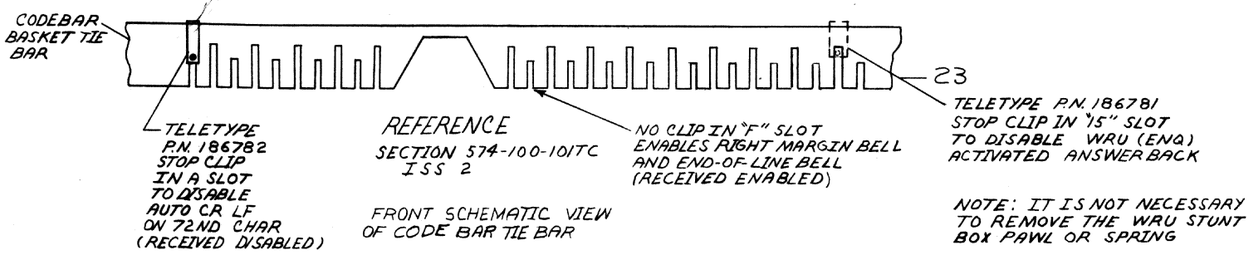
OPTION	LEFT CONTACT BLOCK TERM 1	TERM 2	SLEEVE & STORE	RIGHT CONTACT BLOCK TERM 1	TERM 2	TERM 3R	TERM 3L	SLEEVE & STORE
EVEN PARITY (AS RECEIVED)	WHT-BLK	RED-GRN	GRN	YEL	WHT-SLATE	WHT-BLK	—	GRN
8TH BIT MARKING	WHT-BLK	GRN	RED-GRN	YEL	WHT-SLATE	WHT-BLK	GRN	—
8TH BIT SPACING (NOT USED BY DEC)	WHT-BLK	RED-GRN	GRN	YEL	—	WHT-BLK	—	WHT SLATE GRN

REFERENCES
SEC 574-100-201 TC ISS-5
9334 WD ISS-1

DETAIL "J"
SEE PROC. VI

FUNCTION BOX CASTING (REF)





DETAIL "K"
SEE PROC. VII

PROCEDURE VI

CONVERT KEYBOARD TO 8TH BIT MARKING ("1")
SEE DETAIL "J"

A. LOCATE THE FRONT TAB CONNECTIONS ON THE CONTACT BLOCKS AT THE LEFT AND RIGHT ENDS OF THE KEYBOARD.
B. REMOVE THE RED-GRN LEAD FROM TERMINAL 2 OF THE LEFT CONTACT BLOCK. SLEEVE (INSULATE) THIS WIRE.
C. UNTIE AND UNSLEEVE THE GRN LEAD NEAR THE LEFT CONTACT BLOCK AND CONNECT TO TERMINAL 2
D. TIE THE SLEEVED RED-GRN LEAD TO THE NEARBY BAR.
E. UNTIE AND UNSLEEVE THE GRN LEAD NEAR THE RIGHT CONTACT BLOCK AND CONNECT TERMINAL 3L.

NOTE:
TO INSTALL PARITY OR 8TH BIT SPACING FOLLOW CHART IN DETAIL "J".

PROCEDURE VII

INHIBIT ANSWERBACK CAUSED BY ENQ (WRU)
SEE DETAIL "K"

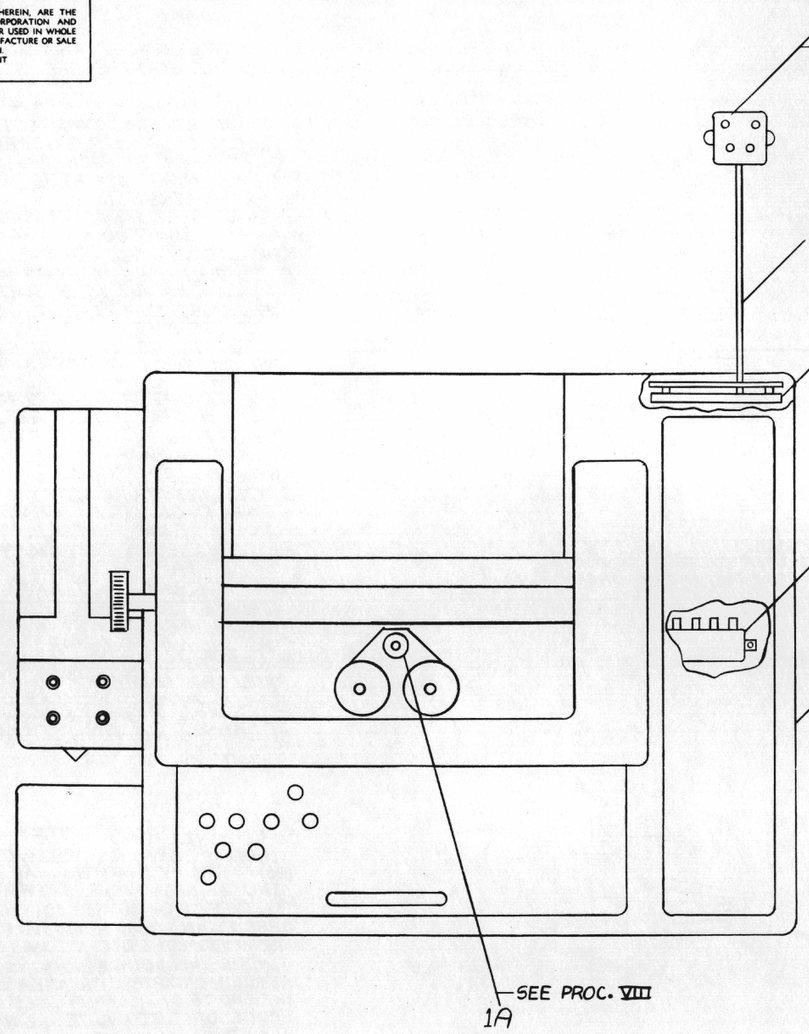
A. DO NOT REMOVE ENQ (WRU) STUNT BOX PAWL OR SPRING
B. LOCATE SLOT "15" IN CODEBAR BASKET TIE BAR.
C. INSTALL SHORT FUNCTION LEVER STOP CLIP ITEM #23 IN SLOT 15 TO INHIBIT ENQ (WRU) INITIATED ANSWERBACK

NOTE:
ALSO VERIFY THAT SLOT "A" CONTAINS A LONG STOP CLIP TELETYPE P.N. 186782 AND THAT SLOT "F" DOES NOT CONTAIN A STOP CLIP.

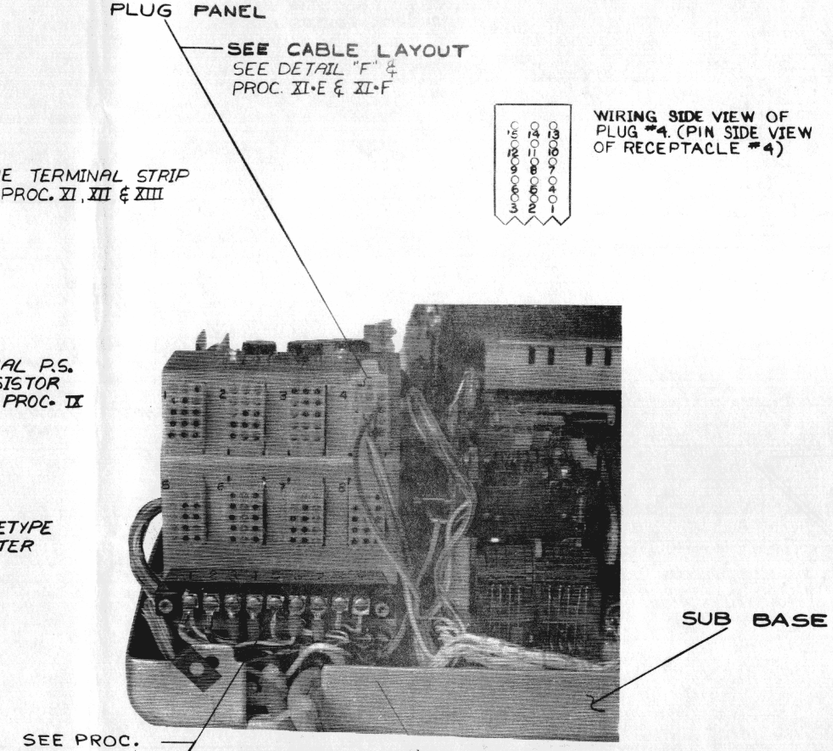
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SET UP & REWORK PROCEDURE FOR TTY3300 SERIES TTY WRITERS	D	UA	LT33-Ø-Ø	B
SCALE NONE SHEET 4 OF 8	DIST.			

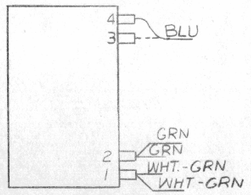
DEC FORM 1-15 GRD 137



DETAIL "L"



DETAIL "M"



LOCAL PWR SUPPLY
POWER RESISTOR
SEE PROC IX-D

DETAIL "N"

PROCEDURE VIII

INSTALL "TD" TYPEWHEEL
SEE DETAIL "L"

A. REMOVE "TV" TYPEWHEEL SUPPLIED (□ = LETTER OH; Ø = NUMERAL ZERO).
B. INSTALL "TD" TYPEWHEEL USING ADJUSTING TOOL TELETYPE P.N. 180588 (O = LETTER OH, Ø = NUMERAL ZERO).
C. CHECK "FINAL PRINTING ALIGNMENT" AS SPECIFIED IN SECT. 574-122-700 TC AND REFINE ADJUSTMENTS AS NEEDED.

PROCEDURE IX

ARRANGE FOR 20mA FULL DUPLEX OPERATION
SEE DETAILS "F", "L", "M" AND "N"

A. REMOVE BRN/YEL WIRE FROM TERMINAL 3 OF THE LINE TERMINAL STRIP AND MOVE IT TO TERMINAL 5.
B. REMOVE BLU/WHT WIRE FROM TERMINAL 4 AND MOVE TO TERMINAL 5.
C. REMOVE PURPLE WIRE FROM TERMINAL 8 AND MOVE TO TERMINAL 9.
D. MOVE THE BLUE WIRE FROM TERMINAL 3 OF THE LOCAL POWER SUPPLY POWER RESISTOR TO TERMINAL 4.

PROCEDURE X

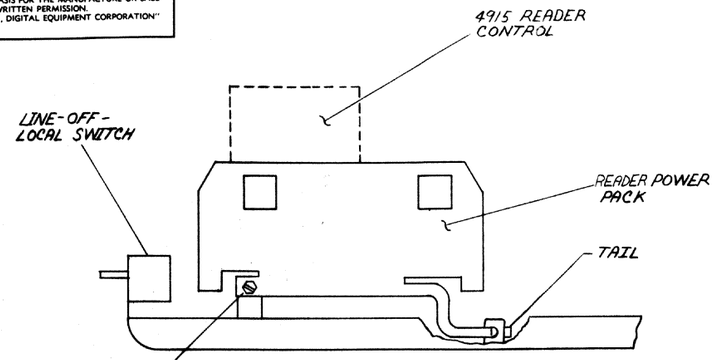
INSTALL 1μF CAPACITOR
SEE DETAIL "M"

A. CUT TUBING ITEM #24 AND PLACE ON LEADS OF CAPACITOR ITEM #9.
B. INSTALL CAPACITOR BETWEEN TERMINALS 3 & 4 OF THE LINE TERMINAL STRIP USING TERMINAL LUGS ITEM #7.

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SET-UP & REWORK PROCEDURE FOR TTY 3300 SERIES TTY WRITERS	SIZE / CODE	D / UA
		NUMBER	LT33-Ø-Ø
		REV.	B
SCALE		SHEET	5 OF 8
		DIST.	

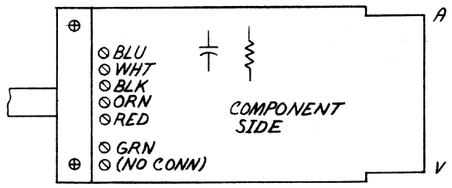
DEC FORM 140
DRD 137



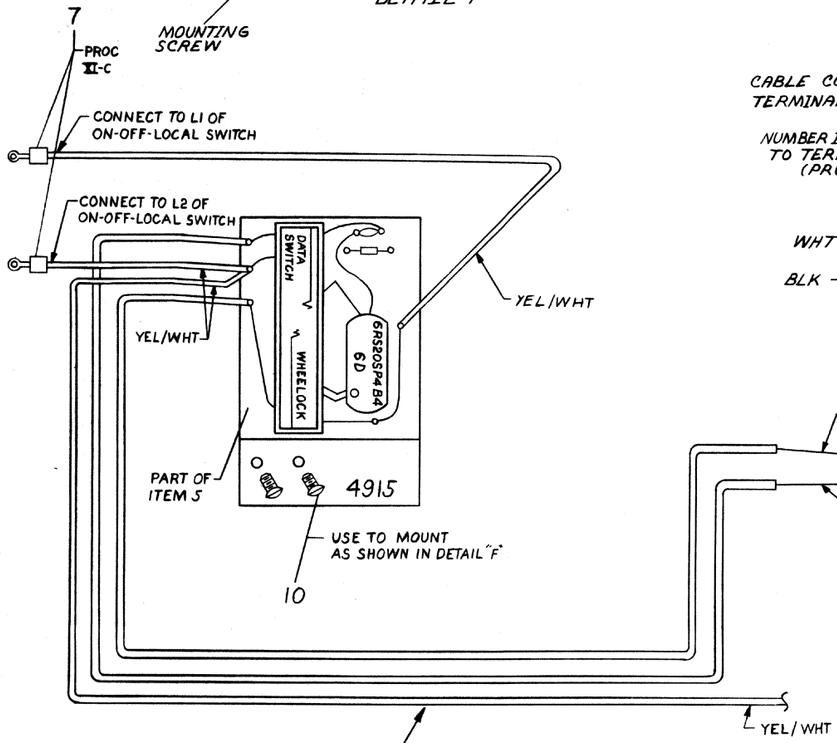
DETAIL "P"

4915
READER CONTROL
INSTALLATION

(RIGHT SIDE VIEW WITH COVER REMOVED)



W076 REV "D" CONN (7005676)
NOTE: YELLOW IS SOMETIMES USED INSTEAD OF WHITE
GRAY IS SOMETIMES USED INSTEAD OF GREEN

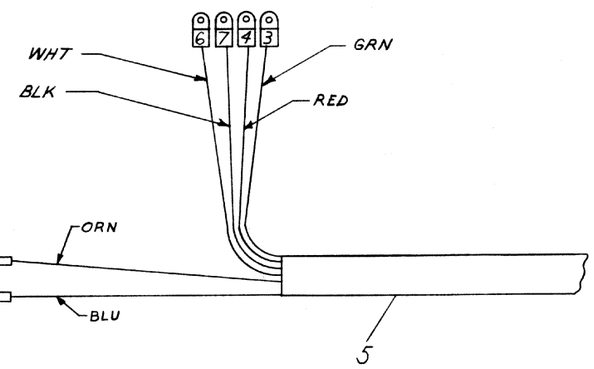


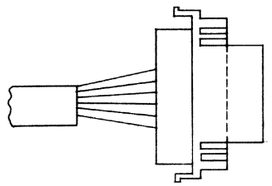
DETAIL "Q"

CONNECT TO LOCATION #7 OF RECEPTACLE #4 ON THE PLUG PANEL USING #3 (MATES WITH BROWN WIRE MOVED BY PROC XI-F) SEE DETAIL M)

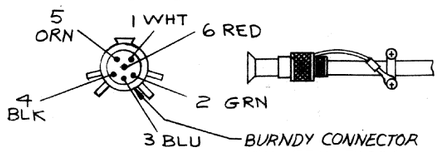
CABLE CONNECTIONS TO TERMINAL BOARD

NUMBER IN LUG CORRESPONDS TO TERMINAL BOARD NUMBERS (PROC XI-G)





PIN VIEW 7006593
MATE-N-LOCK CONNECTOR



BURNDY CONNECTOR
PIN VIEW 7008466

TOOLS FOR BURNDY CONNECTOR
EXTRACTION TOOL RX24-3
INSERTION TOOL RTM24-3
CRIMPING TOOL M10S-1
W/DIE SET 549 & STOP BUSHING SLB1

PROCEDURE XI

INSTALL READER RUN CONTROL (4915) AND INTERFACE CABLE ASSY.
SEE DETAILS "F","L","M","P","Q".

A. REMOVE READER POWER PACK AND SET ASIDE AS FOLLOWS (DETAIL "P"):
   i. REMOVE MOUNTING SCREW (SAVE)
   ii. LIFT READER PACK AND UNHOOK TAIL
   iii. SET POWER PACK ASIDE (UNPLUG IF DESIRED).

B. INSTALL 4915 MODULE (PART OF ITEM #5) ON CALL CONTROL UNIT BRACKET AS SHOWN IN DETAIL "F" USING SCREWS ITEM #10

C. INSTALL TWO YEL/WHT WIRES FROM 4915 ON LINE-OFF-LOCAL SWITCH AS INDICATED IN DETAIL "Q" USING TERMINAL LUG ITEM #7

D. REPLACE RUBBER BOOT ON LINE-OFF-LOCAL SWITCH SO ALL TERMINALS ARE COVERED.

E. CONNECT YEL/WHT WIRE FROM 4915 TO LOCATION #7 OF RECEPTACLE #4 ON THE CALL CONTROL PANEL AS INDICATED IN DETAIL "Q" USING PIN ITEM #6

F. MOVE BROWN WIRE FROM LOCATION #11 TO LOCATION #7 OF PLUG #4 (SEE DETAIL "M")

G. INSTALL FOUR WIRES OF INTERFACE CABLE ON LINE TERMINAL STRIP:

GRN	TERM #3
RED	TERM #4
BLK	TERM #7
WHT	TERM #6

REPLACE TERMINAL STRIP COVER

H. USING TIES ITEMS #11 AND #12, TIE WIRING AS SHOWN IN DETAIL "M" AND "R"

J. REINSTALL READER POWER PACK AS FOLLOWS (DETAIL "P"):
   i. PLUG POWER PACK CABLE INTO PACK IF REMOVED.
   ii. HOOK TAIL OF POWER PACK INTO BRACKET
   iii. INSTALL MOUNTING SCREW PREVIOUSLY REMOVED.

ENGINEERING NOTE:

TELETYPE DRAWINGS 6353WD (33TU) AND 7833WD (33TY) SPECIFY THAT TERMINAL 3 ON LINE TERMINAL STRIP IS – (NEGATIVE) AND TERMINAL 4 IS + (POSITIVE). TELETYPE DRAWING 1180SD (3300) DOES NOT SPECIFY. IN LOCAL AND IN HALF DUPLEX OPERATION THE KEYBOARD IS OPERATED AS IF 3 WERE + (POS) AND 4 WERE – (NEG). SINCE NOTHING IN THE KEYBOARD, READER, DISTRIBUTOR AREA IS POLARITY SENSITIVE, THE CHOICE OF POLARITY DOES NOT MATTER. PROCEDURES XI AND XIII ARE NOT CONSISTENT WITH PROCEDURE XIII IN THIS RESPECT.

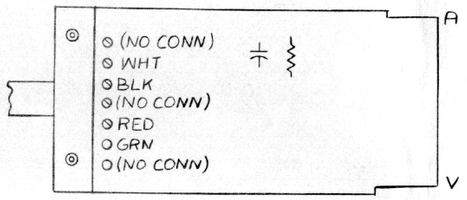
REVISIONS		
CHK	CHANGE NO.	REV.

TITLE	SIZE	CODE	NUMBER	REV.
SET UP & REWORK PROCEDURE FOR TTY 3300 SERIES TTY WRITERS	D	UA	LT33-0-0	B
SCALE NONE	SHEET 6 OF 8		DIST.	

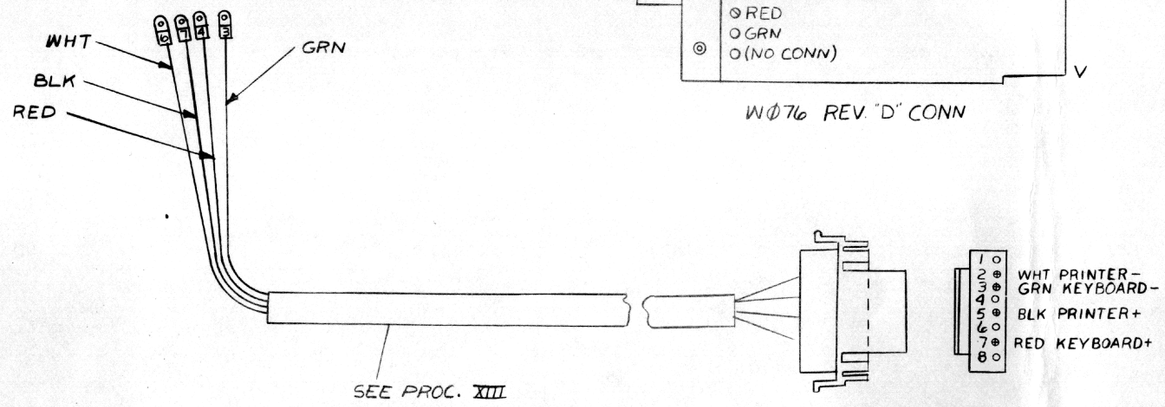
DEC FORM 419
DRD 137

DETAIL "R"

CABLE CONNECTIONS TO TERMINAL BOARD NUMBER IN LUG CORRESPONDS TO TERMINAL BOARD NUMBER



W076 REV "D" CONN



DETAIL "S"

PROCEDURE XII
INSTALL MATE-N-LOCK INTERFACE CABLE
SEE DETAILS 'M' & 'S'

A. INSTALL FOUR WIRES OF INTERFACE CABLE ITEM #5 ON LINE TERMINAL STRIP.

GRN	TERM #3
RED	TERM #4
BLK	TERM #7
WHT	TERM #6

B. REPLACE TERMINAL STRIP COVER.
C. USING TIES ITEM #11 TIE INTERFACE CABLE AS SHOWN IN DETAIL "M"

PROCEDURE XIII
INSTALL TELEPHONE PLUG & JACK
SEE DETAIL 'L' 'M' & 'T'

A. ASSEMBLE TELEPHONE CORDSET ITEM #2 TO TELEPHONE PLUG ITEM #3 BY WIRING THE SHORT WIRE END OF THE CORDSET AS FOLLOWS:

CORDSET WIRE	PLUG TERMINAL	SIGNAL
GREEN	GN	KEYBOARD +
RED	R	KEYBOARD -
BLACK	BK	PRINTER +
YELLOW	Y	PRINTER -

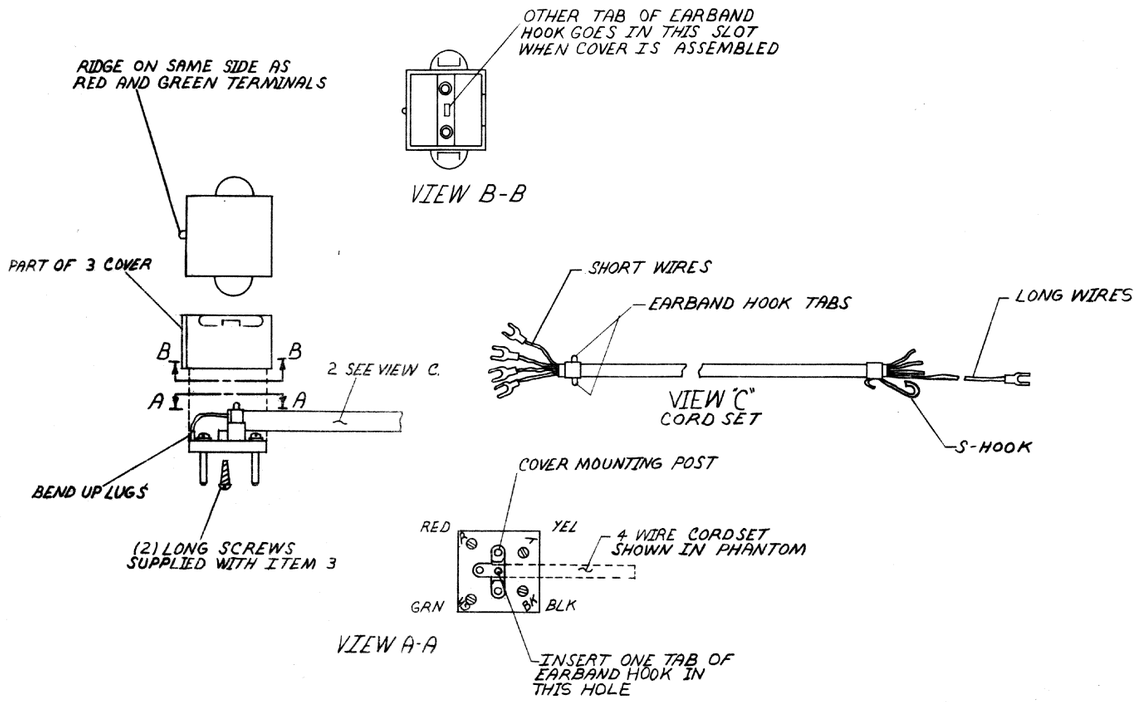
B. BEND TERMINAL LUGS UP AND INSERT EARBAND HOOK TAB INTO CENTER HOLE OF PLUG (SEE VIEW A-A OF DETAIL 'T')
C. ARRANGE WIRES TO CLEAR COVER MOUNTING POSTS AND PLACE COVER ON PLUG WITH RIDGE BETWEEN "R" & GN TERMINALS
D. INSERT AND TIGHTEN THE TWO LONG SCREWS SUPPLIED WITH THE PLUG (DISCARD THE SHORT SCREW ALSO SUPPLIED)
E. WIRE THE LONG WIRE END OF THE CORDSET ITEM #2 TO THE LINE TERMINAL STRIP (DETAIL 'M') AS FOLLOWS

GREEN	TERM # 3
RED	TERM # 4
BLACK	TERM # 7
YELLOW	TERM # 6

F. PLACE S-HOOK UNDER SCREW NEAR LINE TERMINAL STRIP TO STRAIN RELIEVE CORDSET.
G. AFTER TESTING INSERT TELEPHONE PLUG ITEM #3 INTO TELEPHONE JACK ITEM #4 AND PACK SO THAT THE JACK CAN NOT BE DISLODGED.

REVISIONS		
CHK	CHANGE NO	REV

TITLE	SET-UP & REWORK PROCEDURE FOR TTY 33 SERIES TTY WRITERS	SIZE D	CODE UA	NUMBER LT33-Ø-Ø
SCALE		SHEET 7 OF 8	DIST.	REV. B



VIEW B-B

VIEW "C"
CORD SET

VIEW A-A

DETAIL "T"

PROCEDURE XIV

INSTALLATION ON STAND WHEN INSTALLING ON STAND (AFTER SHIPMENT.)

A. FOLLOW UNPACKING", PREPARATION FOR INSTALLATION," MOUNTING TYPING UNIT ON STAND" AND "FINAL ASSEMBLY" PORTIONS OF SECT 574-1ØØ-201 TC I SS.5)
B. CONNECT GREEN WIRE SUPPLIED BETWEEN SUB-BASE AND STAND FRAME GROUND TERMINALS.

NOTE PACKING

A. PREPARE FOR SHIPMENT BY SECURING MACHINE IN ACCORDANCE WITH A-SP-LT33-Ø-1Ø

B. PACK "SOFTWARE" LISTED ON SHIPPING LIST A-AL-LT33-Ø-12 IN ACCORDANCE WITH PACKAGING PROCEDURE A-PI-3700101-Ø-Ø.

REVISIONS		
CHK	CHANGE NO.	REV

TITLE	SIZE	CODE	NUMBER	REV.
SET UP & REWORK PROCEDURE FOR TTY 3300 SERIES TTY WRITERS	D	UA	LT33-Ø-Ø	B
SCALE: NONE SHEET 8 OF 8	DIST.			

DEC FORM 1.5
ORD 137

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ACCESSORY LIST

MADE BY J. CUDMORE	CHECKED PFYFFER	SECTION
DATE 7/21/69	DATE 7/25/69	1
ENG Maisman	PROD Maisman	ISSUED SECT.
DATE 7/28/69	DATE 7/28/69	1

LEGEND

D DOCUMENT
DN DOCUMENT CHANGE NOTICE
PA PAPER TAPE ASCII
PB PAPER TAPE BINARY
PM PAPER TAPE READ-IN-MODE

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION: LT33-B,-D,-E,-F,	-H, TYPES		LT33-AA,-AB,	-CA, -CB, -CC,	-CD, -CE		KIT CHECK BY ____ DATE ____	INSTALLATION CHECK BY ____ DATE ____
1	36-5360	ROLLS, ROLLED OILED PAPER TAPE	—			1					
2	36-5365	ROLL, TWX PAPER	1			1					
3	BULLETIN 273B	TTY MANUAL VOL #1 (VENDOR)	1			1					
4	BULLETIN 310B	TTY MANUAL VOL #2 (VENDOR)	1			1					
5	BULLETIN 1184B	TTY MANUAL PARTS (VENDOR)	1			1					
6	18-9137	ROLL TTY RIBBON	1			1					

TITLE	ASSY. NO.	SIZE	CODE	NUMBER	REV.	ECO NO
TELETYPE WRITERS LT33 SERIES	SHEET 1 OF 1	A	AL	LT33-0-12	C	LT33-00009
		DIST.				

DEC FORM NO.
DRA 121

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

PARTS LIST

MADE BY J. FERGUSON	CHECKED K. GULICK	SECTION 1
DATE 11-18-70	DATE 11-18-70	
ENG [illegible]	PROD [illegible]	ISSUED SECT. 1
DATE 11-19-70	DATE 11/19/70	

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
1	29 11424	CIRCUIT BOARD #181821 TTY CORP	1
2	29 11495	TAPE FEED SPROCKET #183071 TTY CORP	2
3	29 11443	LEVER UNIVERSAL #182240 TTY CORP	2
4	29 11144	FUSE (3.2 AMP) #120167 TTY CORP	2
5	29 11367	DISTRIBUTOR BRUSH # 180979 TTY CORP	2
6	29 11412	DRIVE GEAR #181411 TTY CORP	1
7	29 11417	DRIVEN GEAR #181420 TTY CORP	1
8	29 11411	BELT #181409 TTY CORP	2
9	29 11376	SHAFT #181007 TTY CORP	1
10	29 11376	BEARINGS #181002 TTY CORP	2

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

DEC FORM NO.16-1031
DRA 110

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 D. Chisholm	PROD Leroy Taylor	ISSUED SECT.
DATE 11-19-70	DATE 11/19/70	1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
1	29 12521	SCALE, 8OZ #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	CROCHET HOOK, NO. 8 #151351 TTY CORP	1
8	29 12526	CROCHET 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	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
LT33 TELETYPE MAINTENANCE TOOL KIT		A	PL	LT33-ST-ϕ	A	LT33-00002
	SHEET 1 OF 2	DIST.				

DEC FORM NO.16-1031
DRA 110

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 D. Chisholm	PROD Leroy Taylor	ISSUED SECT.
DATE 11-19-70	DATE 11/19/70	1

ITEM NO.	DWG NO./PART NO.	DESCRIPTION	QUANTITY/VARIATION
22	29 12561	TOMMY WRENCH #73404 TTY CORP	1
23	29 12562	KEY LEVER REMOVER #151383 TTY CORP	1

TITLE	ASSY NO.	SIZE	CODE	NUMBER	REV.	ECO NO.
ASR 33 TELETYPE MAINTENANCE TOOL KIT		A	PL	LT33-ST-ϕ	A	
	SHEET 2 OF 2	DIST.				

DEC FORM NO.16-1031
DRA 110

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	A. KENT	7-26-71
B	ECO CHANGE	LT33-00009	A KENT	11-73	Allan Kent	19 Feb 74

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 copy holder in the box provided. On units where reader power pack is not already mounted inside of Teletype, also place reader power pack in the box provided.

5. 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.

ENG	APPD	SIZE	CODE	NUMBER	REV
K. E. FITZGERALD		A	SP	LT33-0-10	B

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	A KENT	7-26-71
B	ECO CHANGE	LT33-00009	A. KENT	11-73	Allan Kent	19 Feb 74

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. On units with reader power pack shipped separately in the box, mount power supply for reader on basic stand and plug connector cable in. (Other Teletypes have reader power pack already mounted inside in the machine.)

4. Remove tie 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.

ENG	APPD	SIZE	CODE	NUMBER	REV
K. E. FITZGERALD		A	SP	LT33-0-11	B

DEC 16-(392)-1079A-R873
DRA 107A

DIGITAL EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

ENGINEERING SPECIFICATION

DATE 3/18/71

TITLE TELETYPE INSPECTION PROCEDURES AND ADJUSTMENTS

REVISIONS

REV	DESCRIPTION	CHG NO	ORIG	DATE	APPD BY	DATE
A	CHANGE PER ECO	LT33-7	KENT	2/73	Allen Kent	11 Apr 73

ENG	APPD	SIZE	CODE	NUMBER	REV
W Bmiller	W Bmiller	A	SP	LT33-0-13	A

DEC FORM NO. DRA 107

SHEET 1 OF 7

ENGINEERING SPECIFICATION digital CONTINUATION SHEET

TITLE TELETYPE INSPECTION PROCEDURES AND ADJUSTMENTS

1.0 SCOPE

This procedure outlines the procedures for inspection and acceptance of the ASR 33 Teletypes. By ignoring references to the reader and punch, it may also be used for KSR 33 Teletypes.

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 The three shipping bolts that tie down the shipping pallet and printer should be loosened due to a change of condition when making the "H" lever adjustment. The bolts in question cause a compressing of the four rubber feet that the printer rests on. When the linkage to the keyboard is made, a change of .015 of an inch or more in relationship to the universal reset lever. In correction to this problem, the teletype unpacker should loosen all three bolts and, after completion of the teletype checkout, should retighten prior to reinsertion into the packing box.

3.1.2 Minimum .014", maxium .030" 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 and play (Ref. Page 11)

4.1.1 Minimum .001", maximum .012" clearance between left bearing and clutch gear assembly.

	SIZE	CODE	NUMBER	REV
	A	SP	LT33-0-13	A

DEC FORM NO DEC 16-(381)-1022-N370 DRA 108

SHEET 2 OF 7

* 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.

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. .010", 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).

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 adjustment. (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 adjustments 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 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 solonoid. Insert TP183103 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.

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 Two screws that couple the rocker shaft and punch drive bail must be tightened during the checkout period and also be a quality control check item.

6.2.2 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".

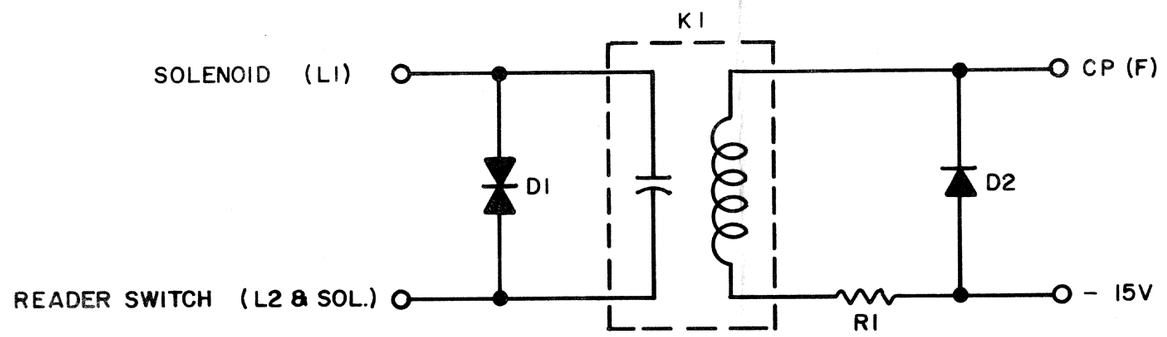
6.3.2 Continue to cycle by hand until the punch drive link is fully forward. The clearance between the punch pin drive levers and the bottom surface of the punch die block assembly, should be minimum .017", maximum .037". (Ref. Page 9)

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.

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

SIZE	CODE	NUMBER	REV.
B	CS	4915-0-1	A



NOTE:
K1 HAS NO OUTER SHIELD

REFERENCE DESIGNATION	DESCRIPTION	PART NO.
K1	RELAY, REED 12VDC #30002 1D1	1203193
R1	RES. 120 1/4W 10% CC	1301418
D2	DIODE D664	1100114
D1	DIODE 6RS 20SP4B4	1100106
	PARTS LIST	A-PL-4915-0-0

PARTS LIST

REVISIONS			
REV.	CHG NO.	CHK	
A	6886 a REDR.	Pwl	

DRN. I.HAHN	DATE 5-11-65		
CHK'D R.SILVERMAN	DATE 6-24-65		
ENG. D.A.WHITE	DATE 5-24-65		
PROD.	DATE		

TRANSISTOR & DIODE CONVERSION CHART

DEC	EIA	DEC	EIA
D664	IN3606		
20SP4B4	SAME		

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE TELETYPE READER CONTROL 4915

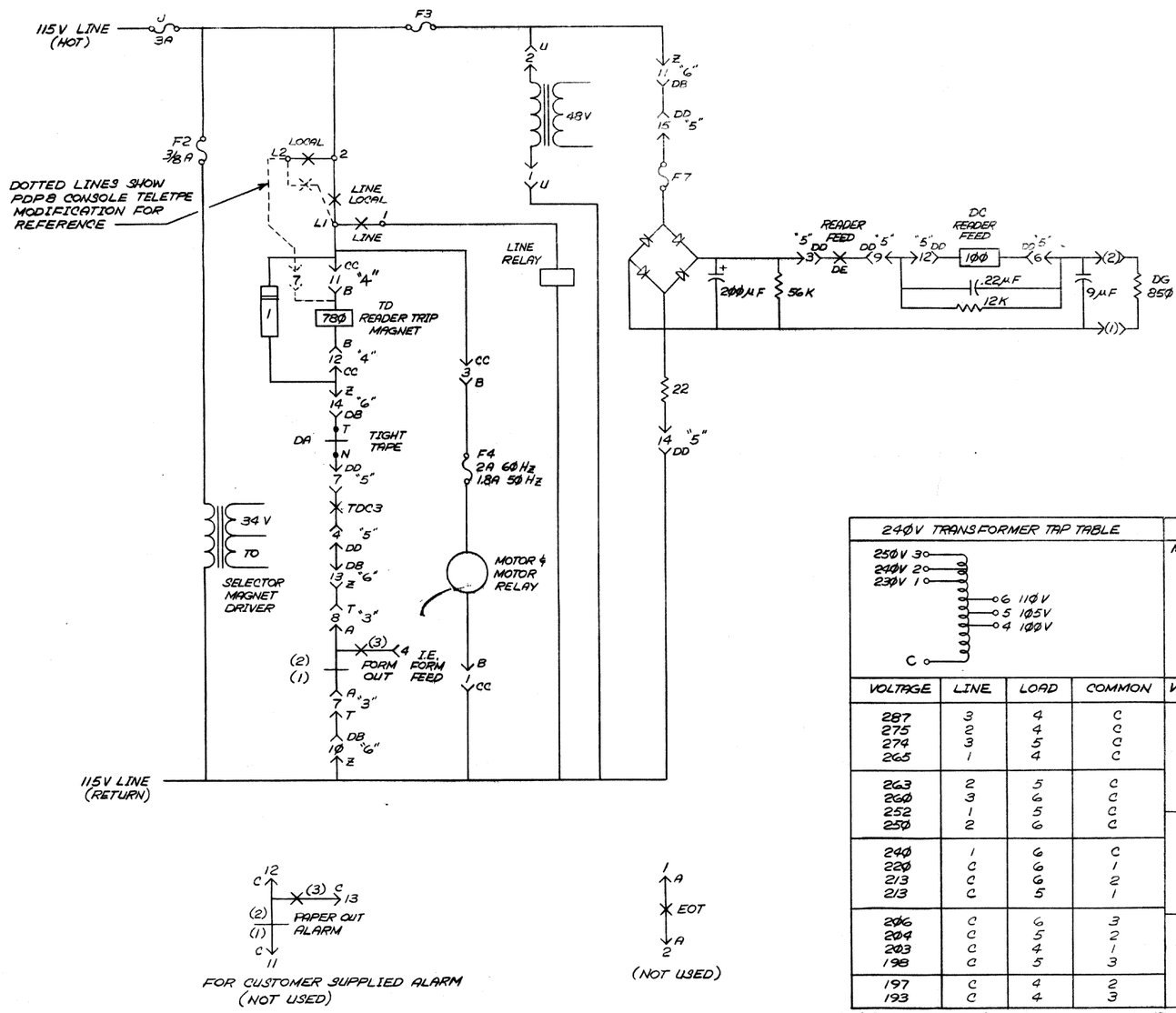
SIZE	CODE	NUMBER	REV.
B	CS	4915-0-1	A

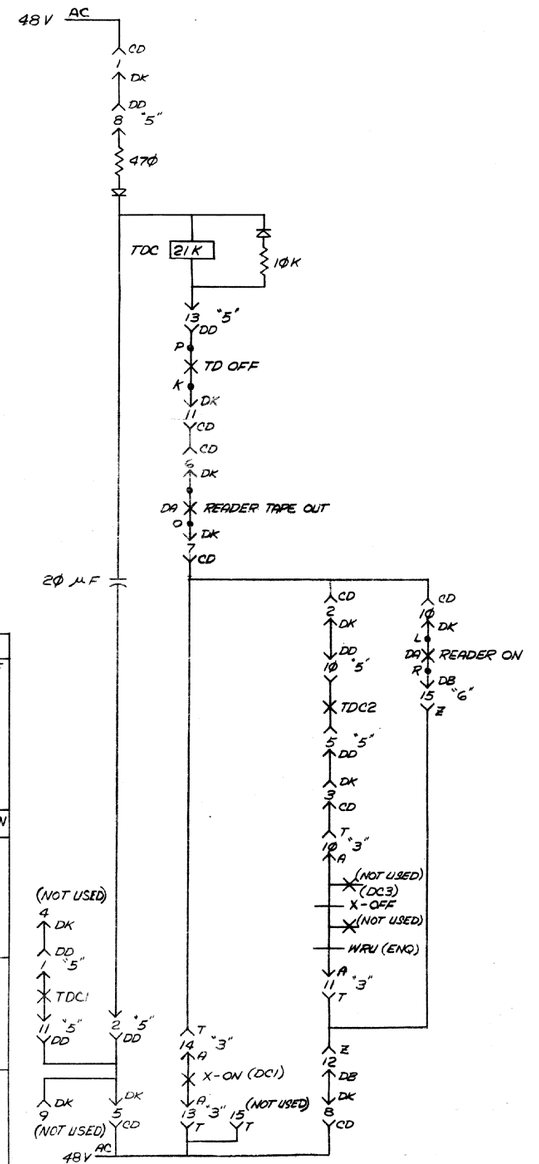
PRINTED CIRCUIT REV. D

DEC FORM NO.
DRB 102

PINK

DIST. 324 434 435





240V TRANSFORMER TAP TABLE				CONNECTOR CORRESPONDENCE			
				MARKED	FIXED HALF	CABLE HALF	
250V 3				1	T	A	
240V 2				2	CC	B	
230V 1				3	DD	—	
				4	Z	—	
				5		—	
				6		—	
				7		—	
				8		DB	
C							
6 110V							
5 105V							
4 100V							

VOLTAGE	LINE	LOAD	COMMON	VOLTAGE	LINE	LOAD	COMMON
287	3	4	C	126	6	4	C
275	2	4	C				
274	3	5	C	121	5	4	C
265	1	4	C				
				115	6	6	C
263	2	5	C	110	5	4	1
260	3	6	C				
252	1	5	C	106	6	4	1
250	2	6	C				
				100	1	3	4
240	1	6	C	96	C	1	5
220	C	6	1				
213	C	6	2	90	C	2	5
213	C	5	1				
				85	C	3	6
206	C	6	3				
204	C	5	2				
203	C	4	1	82	C	2	4
198	C	5	3				
				77	C	3	4
197	C	4	2				
193	C	4	3				

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

REVISIONS			
CHK	CHANGE NO.	REV.	
[illegible]	LT33-00002	A	
[illegible] 7-15-71	A.KENT		
Allen Kent 28 July 71	LT33-00003	B	
[illegible] 10-21-71	A.KENT		
Allen Kent			

FIRST USED ON OPTION/MODEL: PDP10

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	9/23/68
CHK'D. [illegible]	DATE	1-[illegible]-70
ENG. Allen Kent	DATE	30 Jan 70
PROJ. ENG. Allen Kent	DATE	30 Jan 70
PROD. [illegible]	DATE	2-9-70
NEXT HIGHER ASSY	A-ML-LT33-BA-0	
SCALE		
SHEET 1 OF 1		

digital EQUIPMENT CORPORATION MAYNARD, MASSACHUSETTS

TITLE: READER CONTROL CIRCUITS (ISOLATED DIAGRAM) [TIMESHARING ASR 33]

SIZE	CODE	NUMBER	REV
D	BS	LT33-B-CONT	B
DIST.			

DEC FORM NO. DRD 102A

SEL MAG
DRIVE CARD
181819

TRANSISTOR IS
CUT-OFF FOR MARK

470 135 420 .82 6V (EQUIV)

P P

BL W-BR W-BK W-BL BR-Y W G W-S BR-Y

L

(1) (2) (3) (4)

(2) 750 1450 (3) (4)

240 μF 2K

(1) POWER RESISTOR CH 181816

BREAK

KEYBOARD & READER DISTRIBUTOR

9 8 7 6 5 4 3 2

+ − + − + −

TERMINAL STRIP X

WESTERN ELECTRIC
D4BK-3 9 FOOT
CORDSET OR EQUAL
DEC P.N. 1205693

BLACK B
YELLOW Y
GREEN G
RED R

PRINTER (RECEIVE) LOOP
(FULL DUPLEX)
NO CONNEXION
(HALF DUPLEX)

KEYBOARD (TRANSMIT) LOOP (FULL DUPLEX)
TTY LOOP
(HALF DUPLEX)

WESTERN ELECTRIC
2838-50 IVORY
PORTABLE TELEPHONE
JACK OR EQUAL
DEC P.N. 1205857-1

NOTES:
1. ABSTRACTED FROM TELETYPE CORP. 6353WD ISSUE 20.
2. THE YEL AND BLK WIRES OF THE TTY LINE CORD SHOULD BE INSULATED WITH A PIECE OF GLASS TAPE (SCOTCH 27) IN HALF DUPLEX SERVICE.
3. L RELAY IS PICKED UP IN LINE, DROPPED OUT IN OFF AND LOCAL
   X — CLOSED WHEN PICKED UP
   + — CLOSED WHEN DROPPED OUT.
4. WITHOUT AUTO MOTOR CONTROL
   (1) 60 MA
   (2) 20 MA
   (3) HALF DUPLEX
   (4) FULL DUPLEX

QTY.	DESCRIPTION	PART NO.	ITEM NO.

PARTS LIST

REVISIONS

REV.	CHANGE NO.	CHK.	
A	LT33-00003		A. KENT 28 OCT 71

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. R.J. Bernier	DATE 12/27/68	
CHK'D D. Healy	DATE 3/14/69	
ENG. Allen Kent	DATE 25 MAR 69	
PROJ. ENG. Allen Kent	DATE 25 MAR 69	
PROD. M.J. Vi	DATE 1PM 3X	

FIRST USED ON
D-UA-LT33A-0-0

SCALE

SHEET 1 OF 1

digital EQUIPMENT CORPORATION
MAYNARD, MASSACHUSETTS

TITLE
PDP 10 TELETYPE
MODEL 33KSR

SIZE	CODE	NUMBER	REV.
D	IC	LT33A—0—1	A

DIST. G

DEC FORM NO. DRD 102A