



THIS IS PRINT SET 

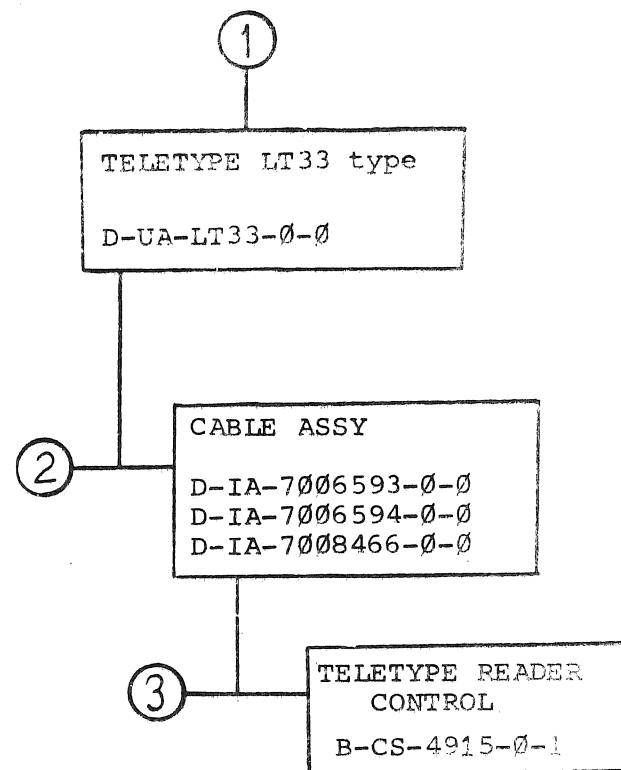
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SEQUENCE 70

| REVISIONS            |          |     |  |
|----------------------|----------|-----|--|
| DATE                 | CHG. NO. | REV |  |
| 3/73                 | REVISED  | J   |  |
|                      | REDRAWN  |     |  |
|                      | LT 33-8  |     |  |
| 1/74                 | LT 33-9  | K   |  |
| Allan Kent 19 Feb 74 |          |     |  |

| USED ON OPTION/MODEL |  | DRM.           | DATE       | TITLE           |      |           |  |     |
|----------------------|--|----------------|------------|-----------------|------|-----------|--|-----|
| SEE "VAR" ABOVE      |  | Ar KENT        | 21 AUG 73  | TELETYPEWRITERS |      |           |  |     |
|                      |  | CHK'D.         | DATE       |                 |      |           |  |     |
|                      |  | Allan Kent     | 21 Aug '73 |                 |      |           |  |     |
|                      |  | PROJ ENG.      | DATE       |                 |      |           |  |     |
|                      |  | Allan Kent     | 21 Aug '73 |                 |      |           |  |     |
|                      |  | PROD.          | DATE       | SIZE            | CODE | NUMBER    |  | REV |
|                      |  | For 1 x 12     | 3-22-73    | B               | DD   | LT 33 - 0 |  | X   |
|                      |  | FIELD SERV.    | DATE       |                 |      |           |  |     |
| SHEET 1 OF 3         |  | Allan McKenney | 3-22-73    | DIST            |      |           |  |     |



|                      |              |                   |                    |          |
|----------------------|--------------|-------------------|--------------------|----------|
| TELETYPEWRITERS LT33 | SHEET 2 OF 3 | SIZE CODE<br>B DD | NUMBER<br>LT33 - 0 | REV<br>K |
|----------------------|--------------|-------------------|--------------------|----------|



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| FEATURES                                                                                                    |                                             |                                          | -A | -A | -B | -B | -B | -B | -C | -C | -C | -C | -D | -D | -D | -D | -E | -E |   |   | -F | -F | -H | -H | -H | -H | -R | -R           |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|---|----|----|----|----|----|----|----|--------------|
| LINE VOLTAGE                                                                                                | 1=115V 60HZ 2=230V 50HZ 0=100V 50HZ         |                                          | 1  | 2  | 1  | 2  | 1  | 2  | 1  | 2  | 1  | 2  | 0  | 1  | 2  | 1  | 2  | 0  | 1 | 2 | 1  | 2  | 1  | 2  | 1  | 2  | 1  | 2            |
| INTERFACE CONNECTOR                                                                                         | 4=WECO 283B, W=W076, 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            |
| KEYBOARD (UPPERCASE)                                                                                        | F=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            |
| PRINTER                                                                                                     | F=FRICITION 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                                                                                        | 0=NONE, R=RDR RUN MOD, A=AUTO, M=MANUAL     |                                          | 0  | 0  | A  | A  | A  | A  | 0  | 0  | 0  | 0  | 0  | R  | R  | R  | R  | R  | M | M | R  | R  | A  | A  | A  | A  | R  | R            |
| ANSWERBACK                                                                                                  | 0=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-3011294-01                             | TELETYPE CAT.NO. 3310/3EA KSR 60 HZ      | 1  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - | - | -  | -  | -  | -  | -  | -  | -  | -            |
| 1                                                                                                           | A-PS-3011294-02                             | TELETYPE CAT.NO. 3310/3SA KSR 60 HZ      | -  | 1  | -  | -  | -  | -  | -  | -  | 1  | 1  | -  | -  | -  | -  | -  | -  | - | - | -  | -  | -  | -  | -  | -  | -  | SEE NOTE 1   |
| 1                                                                                                           | A-PS-3011294-03                             | TELETYPE CAT.NO. 3321/3JA MAN ASR 60 HZ  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 1  | -  | -  | 1  | - | - | -  | -  | -  | -  | -  | 1  | -  |              |
| 1                                                                                                           | A-PS-3011294-04                             | TELETYPE CAT.NO. 3321/3WD MAN ASR 50 HZ  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 1  | 1  | -  | 1  | - | - | -  | -  | -  | -  | -  | -  | 1  | SEE NOTE 1   |
| 1                                                                                                           | A-PS-3011294-05                             | TELETYPE CAT.NO. 3320/3JA MAN ASR 60 HZ  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | *  | -  | -  | *  | - | - | -  | -  | -  | -  | -  | *  | -  | SEE NOTE 2   |
| 1                                                                                                           | A-PS-3011294-06                             | TELETYPE CAT.NO. 3320/3WA MAN ASR 50 HZ  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | *  | *  | -  | * | - | -  | -  | -  | -  | -  | -  | *  | SEE NOTE 1&2 |
| 1                                                                                                           | A-PS-3011294-07                             | TELETYPE CAT.NO. 3320/5JA AUTO ASR 60 HZ | -  | -  | -  | -  | 1  | -  | -  | -  | -  | -  | -  | -  | -  | *  | *  | -  | - | - | -  | -  | -  | 1  | -  | -  | *  |              |
| 1                                                                                                           | A-PS-3011294-08                             | TELETYPE CAT.NO. 3320/5WA AUTO ASR 50 HZ | -  | -  | -  | -  | 1  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - | - | -  | -  | -  | 1  | -  | -  | -  | SEE NOTE 1   |
| 1A                                                                                                          | 1211394                                     | "TD" TYPEWHEEL TELETYPE P.N. 185509      | 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-50                   | 1  | 1  | -  | -  | 1  | 1  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - | - | -  | -  | -  | -  | -  | -  | -  | -            |
| 4                                                                                                           | A-PS-1205857-02                             | TELEPHONE JACK 404B-50                   | 1  | 1  | -  | -  | 1  | 1  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - | - | -  | -  | -  | -  | -  | -  | -  | -            |
| 5                                                                                                           | D-IA-7006593-1-0                            | 4915 TO MATE-N-LOCK ASSY (12 FT) 6 COND  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 1  | 1  | 1  | -  | - | - | -  | -  | -  | -  | -  | -  | -  | -            |
| 5                                                                                                           | D-IA-7006466-12-0                           | 4915 TO BURNDY CABLE ASSY (12 FT)        | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - | - | -  | -  | -  | -  | -  | -  | 1  | 1            |
| 5                                                                                                           | D-IA-7006594-1-0                            | TTY TO MATE-N-LOCK ASSY (12 FT) 4 COND   | -  | -  | -  | -  | -  | -  | -  | -  | 1  | 1  | 1  | -  | -  | -  | -  | 1  | 1 | - | -  | -  | -  | 1  | 1  | -  | -  | -            |
| 6                                                                                                           | 2911459                                     | PIN TELETYPE 102644                      | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 1  | 1  | 1  | -  | - | - | -  | -  | -  | -  | -  | -  | 1  | 1            |
| 7                                                                                                           | 9007929                                     | SOLDERLESS TERM #6 RING 18-22 AWG        | 5  | 5  | -  | -  | 5  | 5  | -  | -  | 5  | 5  | 5  | -  | 5  | 5  | 5  | 3  | 3 | - | -  | -  | -  | 3  | 3  | -  | 5  | 5            |
| 8                                                                                                           | 1100106                                     | THYRECTOR G.E. 6RS20SP4B4                | 2  | 2  | -  | -  | 2  | 2  | -  | -  | 2  | 2  | 2  | -  | 2  | 2  | 2  | 2  | 2 | - | -  | -  | -  | 2  | 2  | -  | 2  | 2            |
| 9                                                                                                           | 1000063                                     | CAPACITOR 1UF ± 10% 150V                 | 1  | 1  | -  | -  | 1  | 1  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - | - | -  | -  | -  | -  | -  | -  | -  | -            |
| 10                                                                                                          | 9006020-1                                   | SCREW PH. HD PAN 6-32 x 1/4              | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 2  | 2  | 2  | -  | - | - | -  | -  | -  | -  | -  | -  | 2  | 2            |
| 11                                                                                                          | 9007032                                     | CABLE TIE 3/16 x 6-1/2 LG SST1-N         | -  | -  | -  | -  | -  | -  | -  | -  | 3  | 3  | 3  | -  | 2  | 2  | 2  | 2  | 2 | - | -  | -  | -  | 2  | 2  | -  | 2  | 2            |
| 12                                                                                                          | 9007031                                     | CABLE TIE 3/32 x 3-3/4 LG SST1-N         | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | 15 | 15 | 15 | -  | - | - | -  | -  | -  | -  | -  | -  | 15 | 15           |
| 13                                                                                                          | A-PS-1609313                                | AUTOTRANSFORMER 3 AMP                    | -  | 1  | -  | -  | 1  | -  | -  | 1  | 1  | -  | -  | -  | 1  | 1  | -  | 1  | - | - | -  | -  | -  | 1  | -  | -  | 1  | -            |
| 14                                                                                                          | 9006037-1                                   | SCREW PH. HD. PAN 8-32 x 3/8             | -  | 4  | -  | -  | 4  | -  | -  | 4  | 4  | -  | -  | -  | 4  | 4  | -  | 4  | - | - | -  | -  | -  | 4  | -  | -  | 4  | -            |
| 15                                                                                                          | 9006690                                     | LOCK WASHER #8                           | -  | 4  | -  | -  | 4  | -  | -  | 4  | 4  | -  | -  | -  | 4  | 4  | -  | 4  | - | - | -  | -  | -  | 4  | -  | -  | 4  | -            |
| 16                                                                                                          | 9006661                                     | FL T WASHER #8                           | -  | 4  | -  | -  | 4  | -  | -  | 4  | 4  | -  | -  | -  | 4  | 4  | -  | 4  | - | - | -  | -  | -  | 4  | -  | -  | 4  | -            |
| 17                                                                                                          | 9006561                                     | HEX NUT 8-32 x 5/16 x 1/8                | -  | 4  | -  | -  | 4  | -  | -  | 4  | 4  | -  | -  | -  | 4  | 4  | -  | 4  | - | - | -  | -  | -  | 4  | -  | -  | 4  | -            |
| 18                                                                                                          | 9107673-12                                  | CORD SET 12 FT                           | -  | 2  | -  | -  | 1  | -  | -  | 2  | 1  | -  | -  | -  | 1  | 1  | -  | 1  | - | - | -  | -  | -  | 1  | -  | -  | 1  | -            |
| 19                                                                                                          | 9007928                                     | SOLDERLESS TERM #10 RING 18-22 AWG       | -  | 2  | -  | -  | 2  | -  | -  | 2  | 2  | -  | -  | -  | 2  | 2  | -  | 2  | - | - | -  | -  | -  | 2  | -  | -  | 2  | -            |
| 20                                                                                                          | 9008853                                     | CAP 230V NEMA 6-15W                      | -  | 1  | -  | -  | 1  | -  | -  | 1  | -  | -  | -  | -  | 1  | -  | -  | 1  | - | - | -  | -  | -  | 1  | -  | -  | -  | -            |
| 20                                                                                                          | A-PS-1210561                                | CAP HUBBELL #7594 (115V)                 | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - | - | -  | -  | -  | -  | -  | 1  | -  |              |
| 20                                                                                                          | A-PS-1210564                                | CAP HUBBELL #7485 (115V)                 | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | -  | - | - | -  | -  | -  | -  | -  | -  | 1  | -            |
| * NO KNOWN USAGE<br>** WILL BECOME OBSOLETE WHEN CURRENT STOCK IS EXHAUSTED (SPROCKET FEED)<br>* SEE NOTE 2 |                                             |                                          |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |   |    |    |    |    |    |    |    |              |



[illegible]

|           |          |      |
|-----------|----------|------|
| DATE CODE | NUMBER   | REV. |
| C PL      | LT33-0-0 | A    |

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DIGITAL EQUIP. CORP.

NOTES TO PARTS LIST

1. IN ALL CASES 60 HZ MACHINES CAN BE REWORKED FOR 50 HZ OPERATION INSTEAD OF STOCKING 50 HZ UNITS. ON THE BASIS OF EXPECTED VOLUME, INITIAL 50 HZ STOCKING IS EXPECTED TO BE AS FOLLOWS (REWORK PROCEDURE 1)

| DESC         | 50 HZ P.N. | STATUS            | ALTERNATIVE       |
|--------------|------------|-------------------|-------------------|
| KSR          | 3011294-02 | REWORK 3011294-01 | STOCK             |
| MAN ASR (TD) | 3011294-04 | STOCK             | REWORK 3011294-03 |
| MAN ASR (TV) | 3011294-06 | REWORK 3011294-05 | SEE NOTE 2        |
| AUTO ASR     | 3011294-08 | REWORK 3011294-07 | STOCK             |

2. WITH THE EXCEPTION OF 3011294-03 (60 HZ) AND 3011294-04 (50 HZ) (BOTH MANUAL ASR WITH "TD" TYPEWHEEL) ALL UNITS MUST BE REWORKED BY REPLACING THE "TV" TYPEWHEEL SUPPLIED WITH A "TD" TYPEWHEEL. THE -03 AND -04 MACHINES ARE SPECIALS AND MAY SOMETIMES BE IN SHORT SUPPLY. THE -05 AND -06 MACHINES MAY BE SUBSTITUTED AS FOLLOWS:

| DESCRIPTION        | PART NO. NEEDED | ALTERNATIVES                                               |
|--------------------|-----------------|------------------------------------------------------------|
| MAN ASR (TD) 60 HZ | 3011294-03      | REWORK (IX) 3011294-05                                     |
| MAN ASR (TD) 50 HZ | 3011294-04      | REWORK (IX) 3011294-06<br>OR<br>REWORK (I & IX) 3011294-05 |

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 W076 P.N. 7005676-1 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.

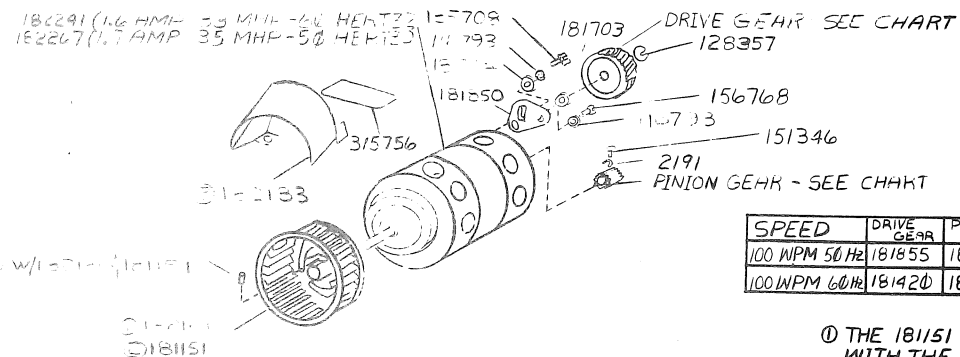
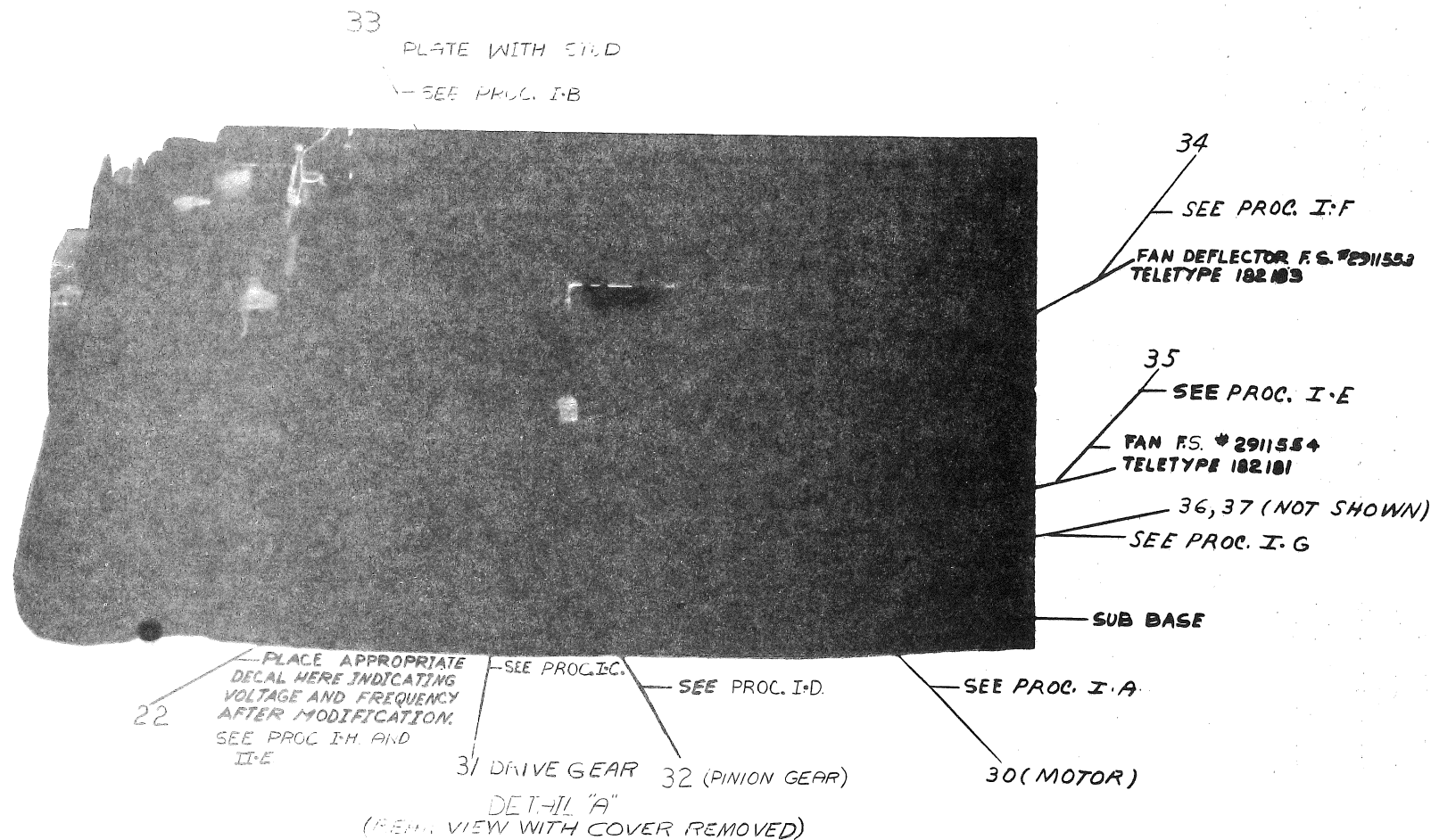
LT33-MC "KSR for 8, 8/I, 8/L, 8/S"  
USE PARTS LIST FOR LT33-CC OMITTING ITEMS 1, 1A, AND 5. IN ADDITION, ONE CABLE ASSY TTY TO W076 P.N. 7005011-1 IS REQUIRED. FOLLOW PROCEDURES FOR LT33-CC.

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 W078 ADAPTER MODULE ADDED TO AN LT33-MB OR LT33-MD KIT CAN BE USED WHEN AN LT33-MA OR LT33-MC KIT IS REQUIRED.

| REV. | CHANGE NO. |
|------|------------|
|      |            |
| CHK  |            |

| FIRST USED ON OPTION/MODEL                                       | QTY.                                | DESCRIPTION     | PART NO.                                                                | ITEM NO. |
|------------------------------------------------------------------|-------------------------------------|-----------------|-------------------------------------------------------------------------|----------|
| PARTS LIST                                                       |                                     |                 |                                                                         |          |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSION IN INCHES.<br>TOLERANCES | DRN.<br>J. Chertai<br>4-20-73       | DATE<br>4-20-73 | digital EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS                 |          |
| DECIMALS                                                         | CHK'D<br>W. Reilly<br>5-22-73       | DATE<br>5-22-73 | TITLE SET UP & REWORK<br>PROCEDURE FOR<br>TTY3300 SERIES<br>TTY WRITERS |          |
| ANGLES                                                           | ENG<br>Allen Kent<br>4-16-73        | DATE<br>4-16-73 | NUMBER<br>C PL LT33-0-0                                                 |          |
| .XXX = .005<br>.XX = .02<br>.X = .1                              | PROJ. ENG.<br>Allen Kent<br>2-28-73 | DATE<br>2-28-73 | REV.<br>A                                                               |          |
| REMOVE BURRS AND BREAK SHARP<br>CORNERS SURFACE QUALITY          | PROD.<br>Frank Fortin<br>8-23-73    | DATE<br>8-23-73 | DIST.                                                                   |          |
| MATERIAL                                                         | NEXT HIGHER ASSY.                   |                 | SCALE                                                                   |          |
| FINISH                                                           | D-UA-LT33-0-0                       |                 | SHEET 3 OF 3                                                            |          |



| 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 182241 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. 574-122-8007C  
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 ALREADY 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 1160 SD-B10 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 SUPPLIED (NOW STANDARD). 181850 PART IS IDENTIFIED BY LONG ADJUSTMENT SCOT.)
- 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

| REV. | CHG. NO.   | REV. |
|------|------------|------|
| 1    | LT33-00008 | 1    |
| 2    | LT33-00009 | 1    |
| 3    | LT33-00009 | 1    |
| 4    | LT33-00009 | 1    |
| 5    | LT33-00009 | 1    |
| 6    | LT33-00009 | 1    |
| 7    | LT33-00009 | 1    |
| 8    | LT33-00009 | 1    |

|                                                                  |               |             |                                                                             |          |
|------------------------------------------------------------------|---------------|-------------|-----------------------------------------------------------------------------|----------|
| NEXT HIGHER ASSY<br>B-DD-LT33-0                                  | QTY.          | DESCRIPTION | PART NO.                                                                    | ITEM NO. |
| PARTS LIST                                                       |               |             |                                                                             |          |
| UNLESS OTHERWISE SPECIFIED                                       | DRN.          | DATE        | digital EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS                     |          |
| UNLESS OTHERWISE SPECIFIED                                       | CHK'D.        | DATE        | TITLE<br>SET-UP & REWORK<br>PROCEDURE FOR TTY<br>3300 SERIES TTY<br>WRITERS |          |
| TOLERANCES                                                       | ENG.          | DATE        | SIZE CODE<br>DUA                                                            |          |
| DECIMALS FRACTIONS ANGLES                                        | PROJ. ENG.    | DATE        | NUMBER<br>LT33-0-0                                                          |          |
| ± .005 ± 1/64 ± 0°30'                                            | PROD.         | DATE        | REV.<br>A                                                                   |          |
| FINAL SURFACE QUALITY<br>REMOVE BURRS AND BREAK SHARP<br>CORNERS | FINISH        | DATE        | SHEET<br>OF 8                                                               |          |
| MATERIAL                                                         | FIRST USED ON | DATE        | DIST.                                                                       |          |
| LT33 TYPE                                                        | SCALE         | DATE        |                                                                             |          |
| SCALE                                                            | NONE          | DATE        |                                                                             |          |
| SHEET                                                            | OF 8          | DATE        |                                                                             |          |

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0-0-2317 DUA 2

## PROCEDURE II MODIFY LINE VOLTAGE (INSTALL TRANSFORMER)

SEE DETAIL A, C, AND D  
FOR OPERATION ON VOLTAGES OTHER  
THAN 115V PERFORM THE FOLLOWING  
OPERATIONS:

- DRILL FOUR 3/16 INCH DIA. HOLES IN BASE MOUNTING PLATE AS SHOWN IN DETAIL C
- MOUNT TRANSFORMER ITEM #13 WITH ITEM #4 THRU ITEM #17.
- CUT CORDSET ITEM #18 AS SHOWN AND WIRE PER TABLE AND DETAIL "D" USING ITEM #19.
- PLUG TELETYPE CORD INTO FEMALE RECEPTACLE PART OF ITEM #18
- PLACE APPROPRIATE VOLTAGE DECAL ITEM #22 AS SHOWN IN DETAIL "A".

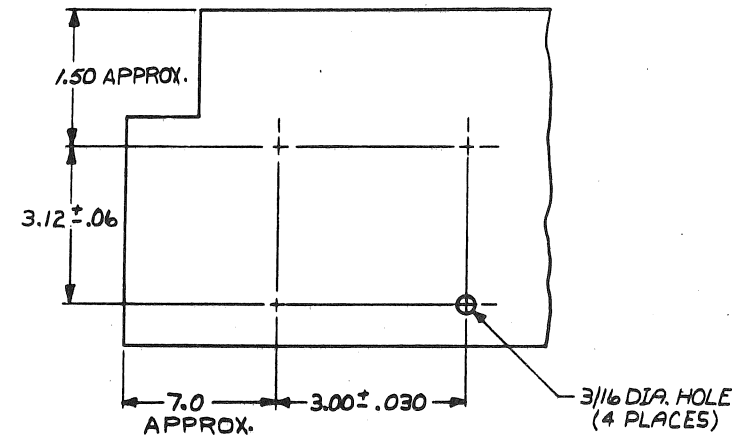
## PROCEDURE III CHANGE MALE CORD CAP SEE DETAIL "D" AND "E"

- DETERMINE FROM PARTS LIST WHICH CAP IS TO BE PUT ON.
- 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.
- SLIDE THE COVER ITEM #21 IF REQUIRED ONTO THE CORD AND WIRE THE CAP ITEM #20 AS SHOWN IN DETAIL "E".
- FIT THE COVER IF USED OVER THE CAP AS SHOWN IN DETAIL "E".

NOTE:

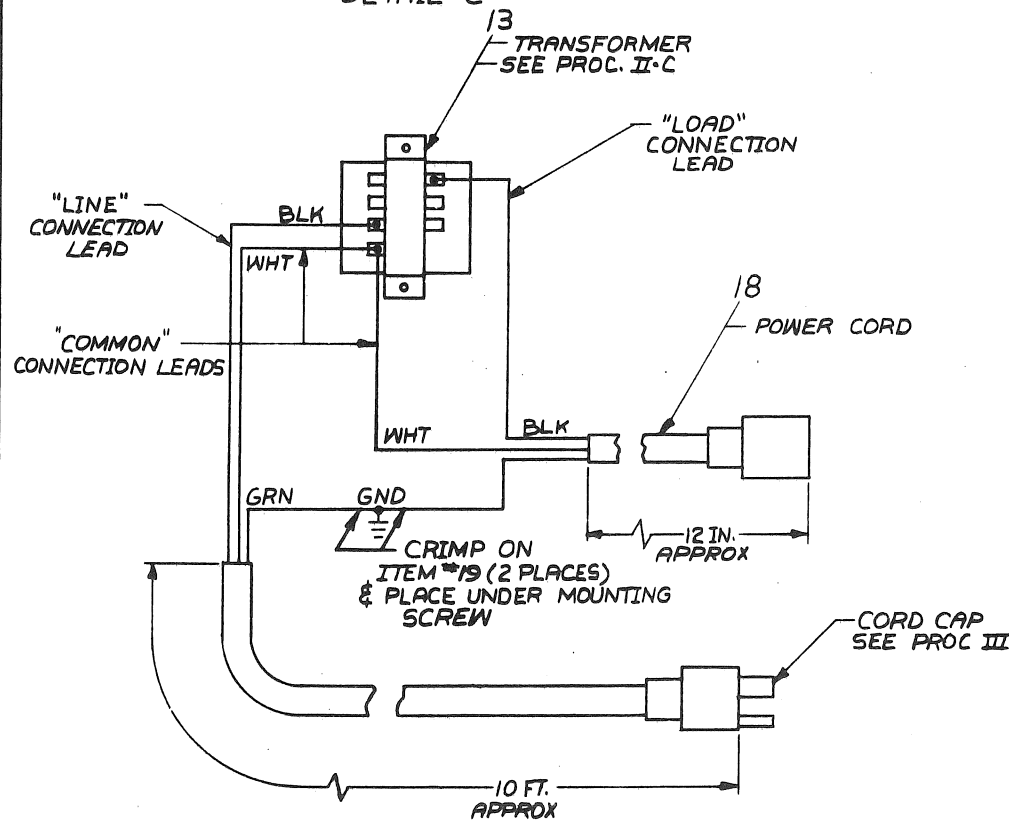
PDP-9 AND EARLY PDP-10 TELETYPE  
WERE SUPPLIED WITH A NEMA 5-15P  
(115V) CAP PAINTED RED WHEN  
WIRED FOR 190 TO 250 VOLTS

### FRONT OF TELETYPE

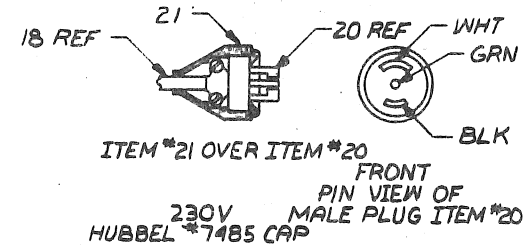
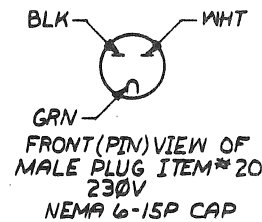


REAR OF TELETYPE  
SCALE: NONE  
HOLE DRILLING DIAGRAM FOR MOUNTING  
OF TRANSFORMER ITEM #5, TO PLATE  
INSIDE BOTTOM OF BASE. (PROC. II-A)

### DETAIL "C"

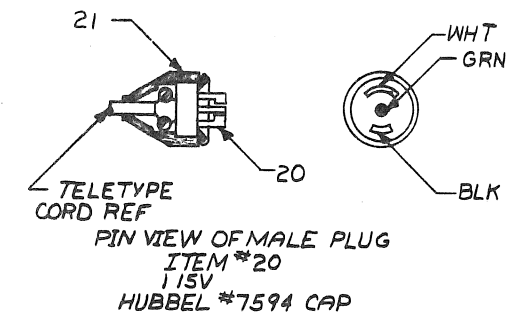


### DETAIL "D"

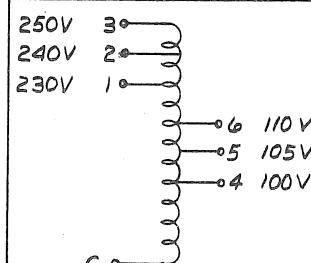


### DETAIL "E"

CORD CAP WIRING  
(PROC III)



### TRANSFORMER TAP TABLE



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

\* INDICATES STD  
FACTORY CONNECTIONS

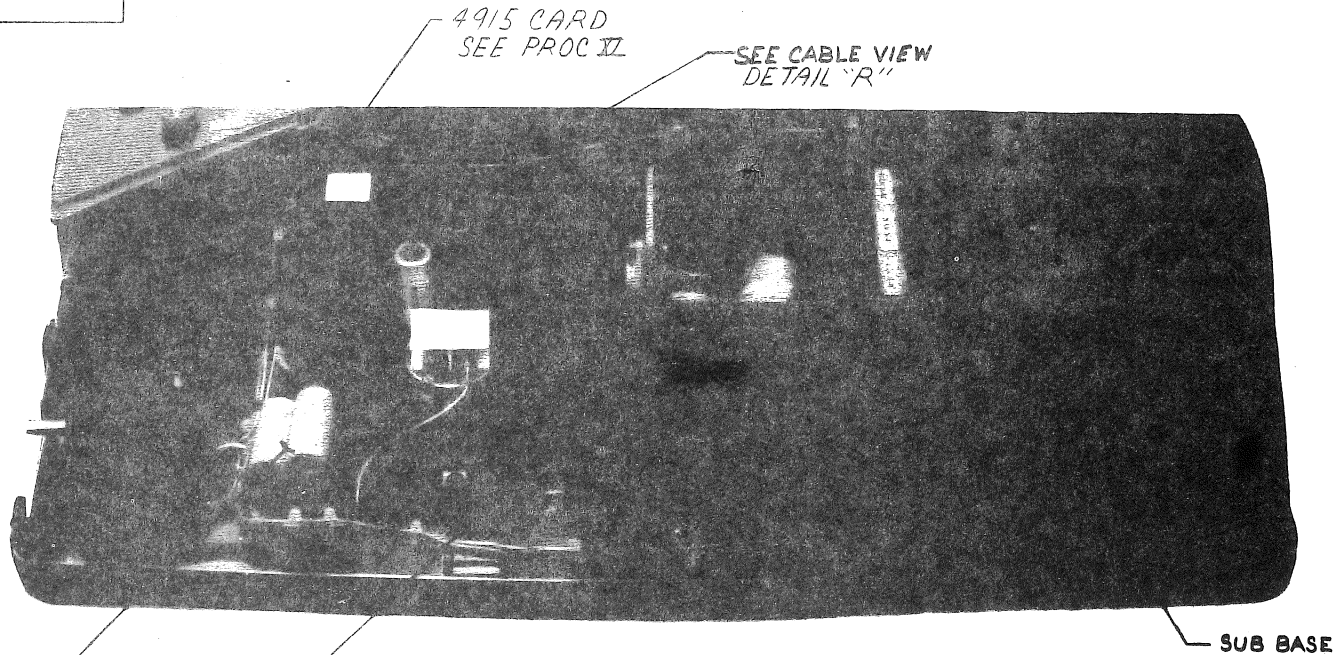
THIS TABLE PROVIDES 115V TO  
THE LOAD AT THE NORMAL  
LINE VOLTAGE

| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |

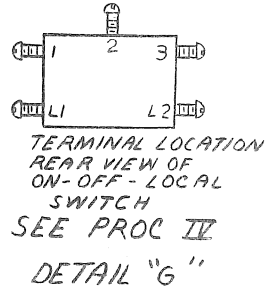
|                                                                   |              |               |                 |        |
|-------------------------------------------------------------------|--------------|---------------|-----------------|--------|
| TITLE SET UP & REWORK PROCEDURE<br>FOR TTY 3300 SERIES TTY WIRERS |              | SIZE CODE DUA | NUMBER LT33-0-0 | REV. A |
| SCALE NONE                                                        | SHEET 2 OF 8 | DIST.         |                 |        |



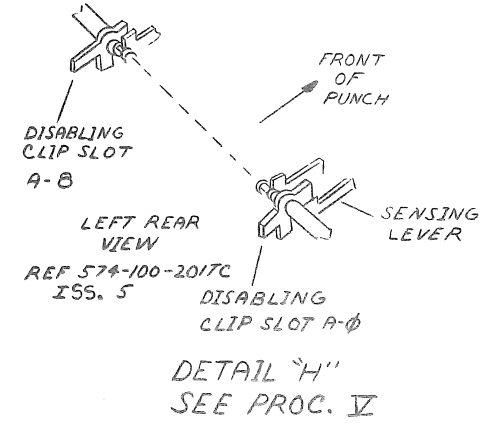
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DETAIL "F"  
(RIGHT SIDE VIEW)



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



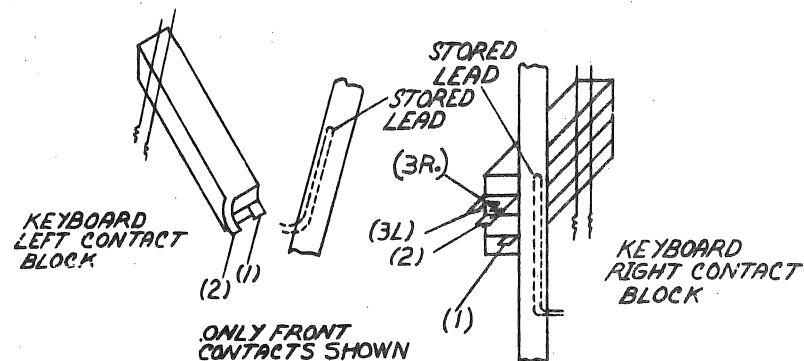
PROCEDURE IV  
INSTALL THYRECTORS  
SEE DETAILS "F" & "G"  
A. CUT TUBING ITEM#24 AND PLACE ON LEADS OF THYRECTORS ITEM#8  
B. PULL BACK THE RUBBER BOOT WHICH COVERS THE TERMINALS ON THE LINE OFF-LOCAL SWITCH  
C. INSTALL THYRECTORS USING TERMINAL ITEM#7 PER TABLE IN DETAIL "G"  
D. IF RELAY CONTROLLED 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 PN 187001 CLIPS, ONE IN EACH SLOT SHOWN IN DETAIL "H". (RECEIVED WITH AUTO PUNCH INACTIVATED)

| REVISIONS |           |     |
|-----------|-----------|-----|
| CHK       | CHANGE NO | REV |
|           |           |     |

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### KEYBOARD PARITY MODIFICATIONS



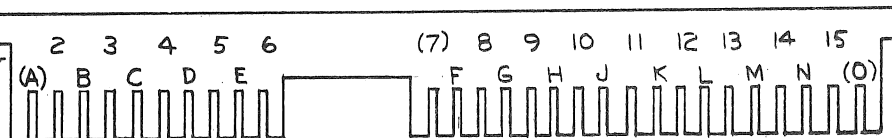
| OPTION                           | LEFT CONTACT BLOCK |         |         | RIGHT CONTACT BLOCK |           |         |         | SLEEVE & STORE |
|----------------------------------|--------------------|---------|---------|---------------------|-----------|---------|---------|----------------|
|                                  | TERM1              | TERM2   | SLEEVE  | TERM1               | TERM2     | TERM3   | TERM 3L |                |
| 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 DE) | 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)

NUMBERS & LETTERS  
IN ( ) ARE NOT CAST  
INTO CASTING



CODE BAR  
BASKET TIE  
BAR

TELETYPE  
PM 186782  
STOP CLIP  
IN A SLOT  
TO DISABLE  
AUTO CR LF  
ON 72ND CHAR  
(RECEIVED DISABLED)

REFERENCE  
SECTION 574-100-10/TC  
ISS 2  
FRONT SCHEMATIC VIEW  
OF CODE BAR TIE BAR

DETAIL "K"  
SEE PROC. VII

NO CLIP IN "F" SLOT  
ENABLES RIGHT MARGIN BELL  
AND END-OF-LINE BELL  
(RECEIVED ENABLED)

TELETYPE PM 186781  
STOP CLIP IN "15" SLOT  
TO DISABLE WRU (ENQ)  
ACTIVATED ANSWERBACK

NOTE: IT IS NOT NECESSARY  
TO REMOVE THE WRU STUNT  
BOX PAWL OR SPRING

### PROCEDURE VII CONVERT KEYBOARD TO 8TH BIT MARKING (I)

- SEE DETAIL "J"
- LOCATE THE FRONT TAB CONNECTIONS ON THE CONTACT BLOCKS AT THE LEFT AND RIGHT ENDS OF THE KEYBOARD.
  - REMOVE THE RED-GRN LEAD FROM TERMINAL 2 OF THE LEFT CONTACT BLOCK. SLEEVE (INSULATE) THIS WIRE.
  - UNTIE AND UNSLEEVE THE GRN LEAD NEAR THE LEFT CONTACT BLOCK AND CONNECT TO TERMINAL 2.
  - TIE THE SLEEVED RED-GRN LEAD TO THE NEARBY BAR.
  - UNTIE AND UNSLEEVE THE GRN LEAD NEAR THE RIGHT CONTACT BLOCK AND CONNECT TO 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"
- DO NOT REMOVE ENQ (WRU) STUNT BOX PAWL OR SPRING
  - LOCATE SLOT "15" IN CODEBAR BASKET TIE BAR.
  - INSTALL SHORT FUNCTION LEVER STOP CLIP ITEM #23 IN SLOT 15 TO INHIBIT ENQ (WRU) INITIATED ANSWERBACK

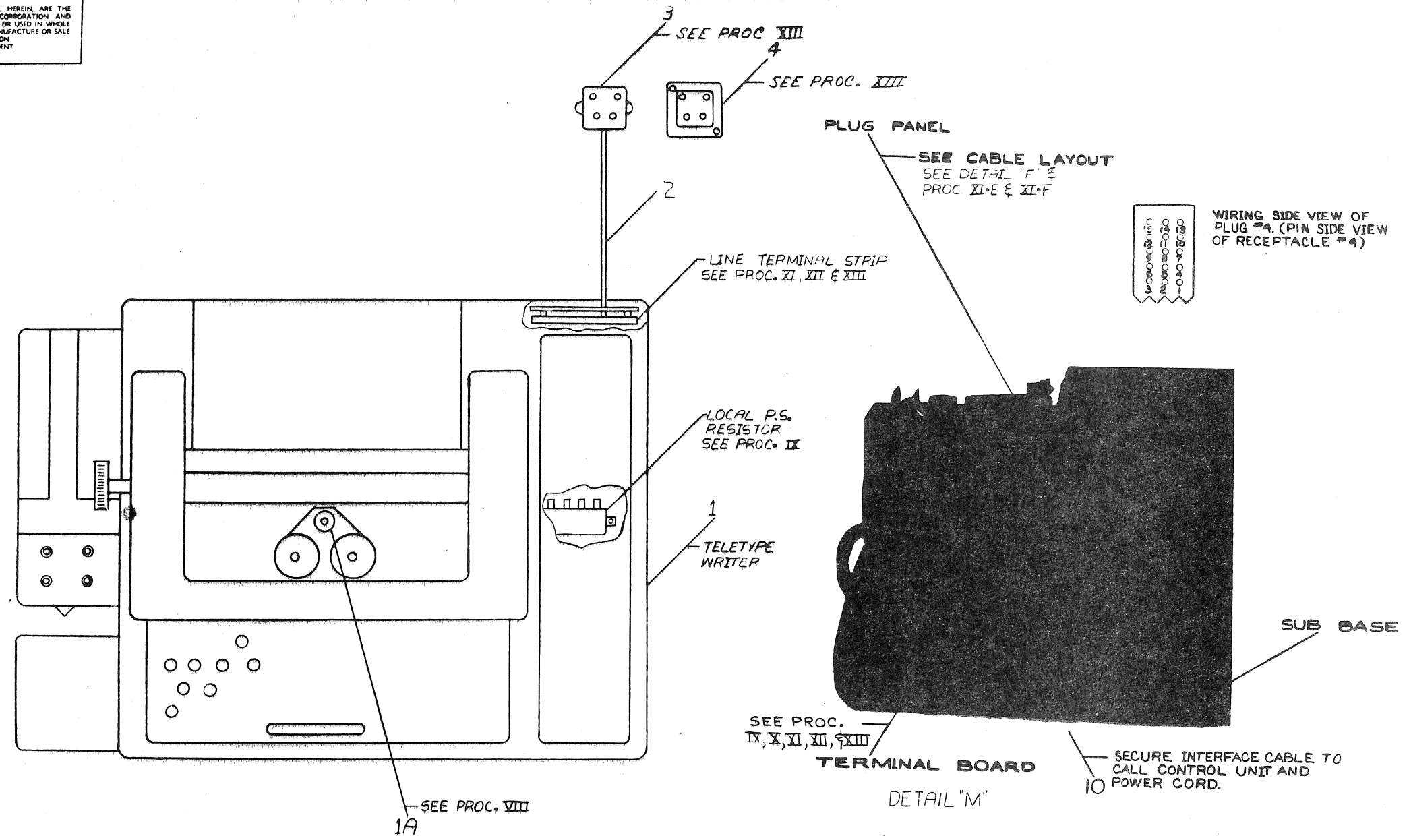
NOTE:  
ALSO VERIFY THAT SLOT "A" CONTAINS  
ALONG STOP CLIP TELETYPE PM 186782  
AND THAT SLOT "F" DOES NOT CONTAIN  
A STOP CLIP.

| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

TITLE SET UP/REWORK PROCEDURE  
FOR TTY3300 SERIES TTY WRITERS  
SCALE NONE SHEET 4 OF 8

SIZE CODE DUA  
NUMBER LT33-0-0  
REV A

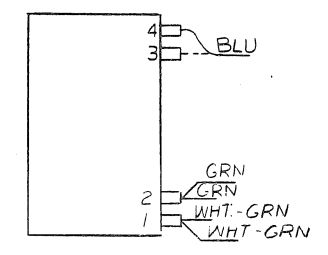
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**PROCEDURE VII**  
**INSTALL TD TYPEWHEEL**  
SEE DETAIL 'L'  
A. REMOVE TD TYPEWHEEL SUPPLIED (O = LETTER OH; 0 = NUMERAL ZERO)  
B. INSTALL "TD" TYPEWHEEL USING ADJUSTING TOLL TELETYPE RN. 180555 (O = LETTER OH, 0 = NUMERAL ZERO)  
C. CHECK "FINAL PRINTING ALIGNMENT" AS SPECIFIED IN SECT. 574-122-700 TC AND REFINES 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/WHI WIRE FROM TERMINAL 4 AND MOVE TO TERMINAL 5.  
C. REMOVE PURPLE WIRE FROM TERMINAL 8 AND MOVE TO TERMINAL 4.  
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 PLUG ON LEADS OF CAPACITOR ITEM #9  
B. INSTALL CAPACITOR BETWEEN TERMINALS 3 & 4 OF THE LINE TERMINAL STRIP USING TERMINAL LUGS ITEM #7



LOCAL PWR SUPPLY  
POWER RESISTOR  
SEE PROC IX.D  
DETAIL 'N'

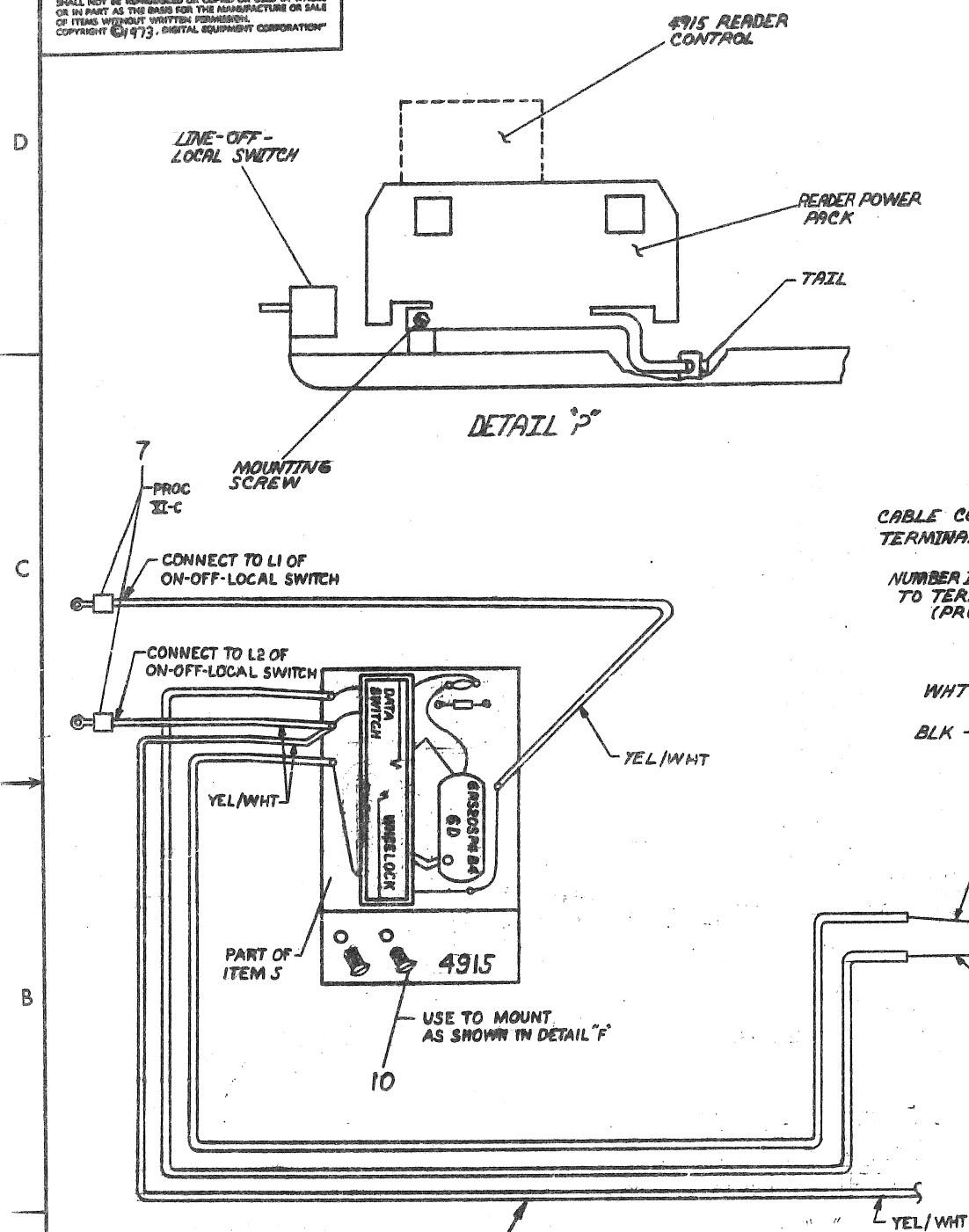
DETAIL 'L'

TERMINAL BOARD  
DETAIL 'M'

SUB BASE

| REVISIONS |           |     |
|-----------|-----------|-----|
| CHK       | CHANGE NO | REV |
|           |           |     |

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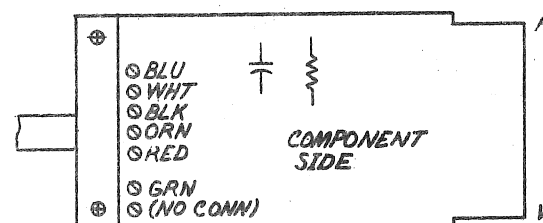


4915  
READER CONTROL  
INSTALLATION  
(RIGHT SIDE VIEW WITH  
COVER REMOVED)

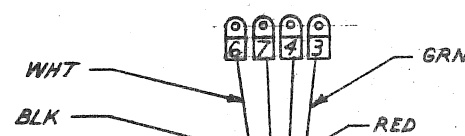
DETAIL P

CABLE CONNECTIONS TO  
TERMINAL BOARD

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

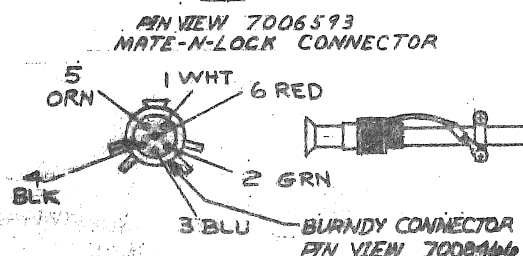


W076 REV "D" CONN (7005676)  
NOTE: YELLOW IS SOMETIMES USED INSTEAD OF WHITE  
GRAY IS SOMETIMES USED INSTEAD OF GREEN



DETAIL Q

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



TOOLS FOR BURNDY CONNECTOR

EXTRACTION TOOL RX24-3  
INSERTION TOOL RTM24-3  
CRIMPING TOOL MMS-1  
WIRE SET 977 (STOP BUSHING BLB)

## PROCEDURE II

INSTALL READER RUN CONTROL (4915)  
AND INTERFACE CABLE ASSY.

- SEE DETAILS "F", "M", "P", "Q".
- 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)
  - INSTALL 4915 MODULE (PART OF ITEM #5) ON CALL CONTROL UNIT BRACKET AS SHOWN IN DETAIL "F" USING SCREWS ITEM #10
  - INSTALL TWO YEL/WHT WIRES FROM 4915 ON LINE-OFF-LOCAL SWITCH AS INDICATED IN DETAIL "Q" USING TERMINAL LUG ITEM #7
  - REPLACE RUBBER BOOT ON LINE-OFF-LOCAL SWITCH SO ALL TERMINALS ARE COVERED.
  - 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
  - MOVE BROWN WIRE FROM LOCATION #11 TO LOCATION #7 OF PLUG #4 (SEE DETAIL "M")
  - 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
  - USING TIES ITEMS #11 AND #12, TIE WIRING AS SHOWN IN DETAIL "M" AND "R"
  - REINSTALL READER POWER PACK AS FOLLOWS (DETAIL "P"):  
I. PLUG POWER PACK CABLE INTO PACK IF REMOVED.  
II. HOOK TAIL OF POWER PACK IN TO 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 1180 SD (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 II AND III ARE NOT CONSISTENT WITH PROCEDURE III IN THIS RESPECT.

| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

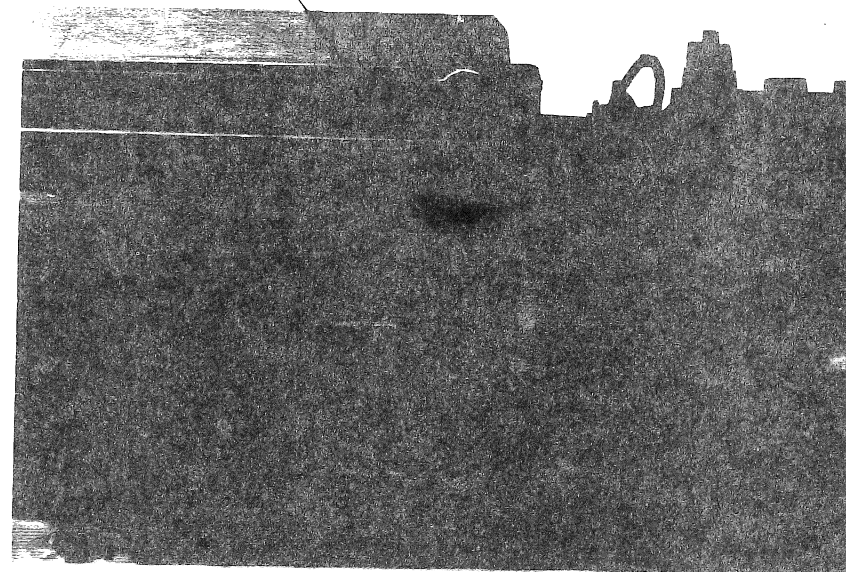
| TITLE                                                   |              | SIZE CODE | NUMBER      | REV. |
|---------------------------------------------------------|--------------|-----------|-------------|------|
| SET UP/REWORK PROCEDURE FOR TTY 3300 SERIES TTY WRITERS |              | D        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



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WRU PAWL SPRING

SEE PROC. XII-A  
DO NOT REMOVE PART.

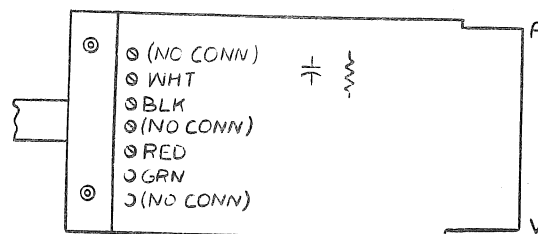


TIE  
PROC. XI-H

DETAIL "R"

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

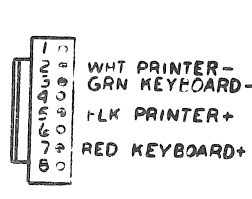
WHT  
BLK  
RED  
GRN



W076 REV D' CONN

SEE PROC. XIII

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<br>WIRE | PLUG<br>TERMINAL | SIGNAL     |
|-----------------|------------------|------------|
| GREEN           | GN               | KEYBOARD + |
| RED             | R                | KEYBOARD - |
| BLACK           | BK               | PRINTER +  |
| YELLOW          | Y                | PRINTER -  |

- B. BEND TERMINAL LUGS UP AND INSERT  
EARBAND HOOK TAP INTO CENTER HOLE  
OF PLUG (SEE VIEW A-A OF DETAIL T)

- C. ARRANGE WIRES TO CLEAR COVER  
MOUNTING POSTS AND PLACE CORD 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 NUT  
LINE TERMINAL STRIP TO STRAIN  
RELIEVE CORDSET.

- G. AFTER TESTING, INSERT TELEPHONE  
PLUG ITEM #3 INTO TELEPHONE  
JACK ITEM #4 AND PLACE SO THAT  
THE JACK CANNOT BE DISCONNECTED.

| REVISIONS |           |     |
|-----------|-----------|-----|
| CHK       | CHANGE NO | REV |

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

SIZE CODE  
D U/L

NUMBER  
LT33-00

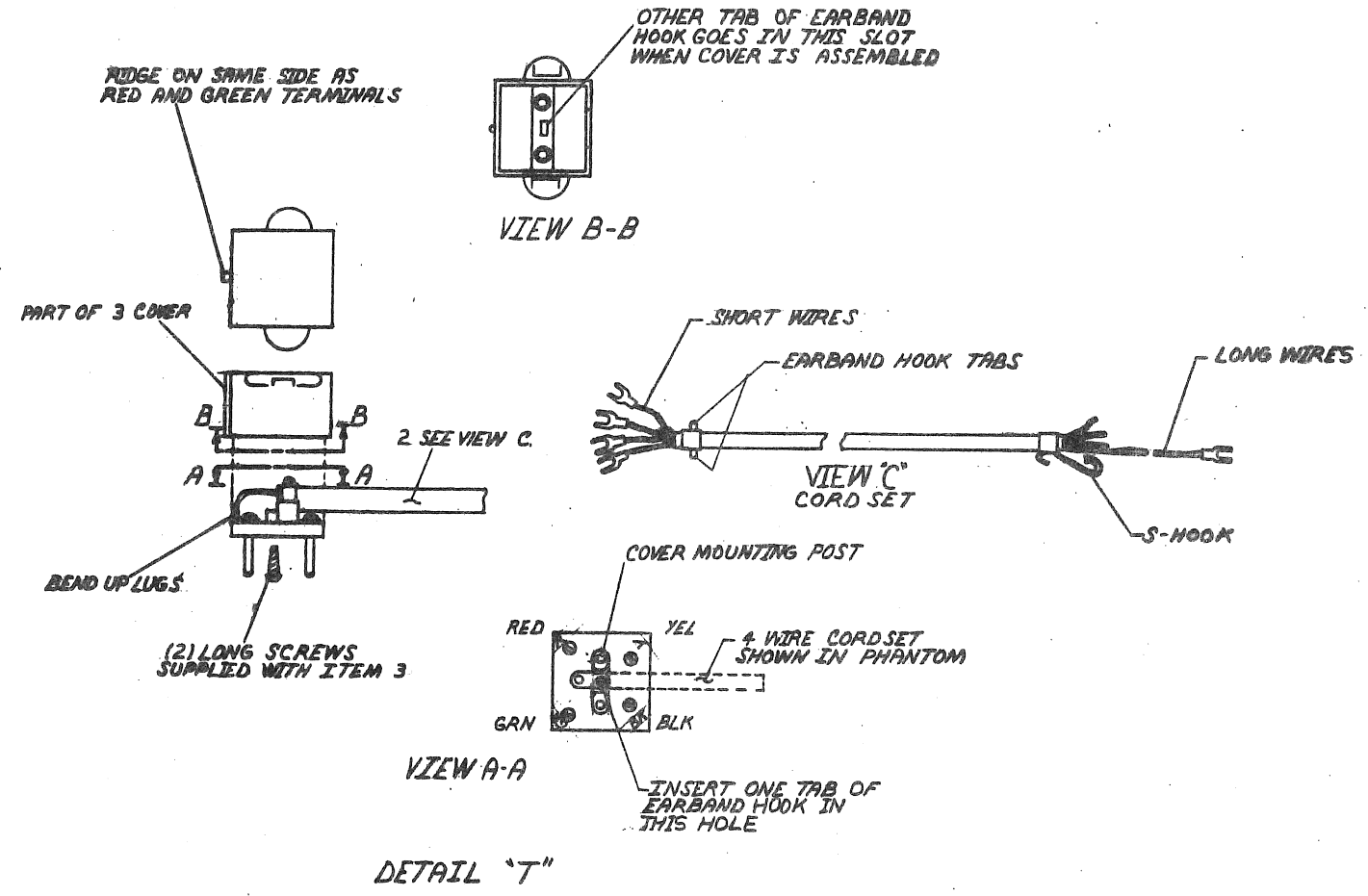
REV.  
A

SCALE SHEET 7 OF 8

DIST.

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**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-  
 100-201 TC I SS.5)  
 B. CONNECT GREEN WIRE SUPPLIED  
 BETWEEN SUB-BASE AND STAND  
 FRAME GROUND TERMINALS.



| REVISIONS |            |      |
|-----------|------------|------|
| CHK       | CHANGE NO. | REV. |
|           |            |      |

|                                 |              |           |          |      |
|---------------------------------|--------------|-----------|----------|------|
| TITLE SET UP & REWORK PROCEDURE |              | SIZE CODE | NUMBER   | REV. |
| FOR TTY3300 SERIES TTY WRITERS  |              | D UA      | LT33-0-0 |      |
| SCALE NONE                      | SHEET 8 OF 8 | DIST.     |          |      |

## ACCESSORY LIST

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

[illegible]

|                        |                         |              |
|------------------------|-------------------------|--------------|
| MADE BY J. CUDMORE     | CHECKED PFYFFER         | SECTION      |
| DATE 7/21/69           | DATE 7/25/69            | 1            |
| ENG <i>M. Anderson</i> | PROD <i>M. Anderson</i> | ISSUED SECT. |
| DATE 7/28/69           | DATE 7/28/69            | 1            |

[illegible]

|           |                           |
|-----------|---------------------------|
| REV.<br>C | ECO NO<br>LT 33-<br>00009 |
|-----------|---------------------------|

DIST.

|                                                         |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------|--------------------|---------------------------------|--|--------------|----------------------|---------------|--|------|------------|--|--|--|--|--|--|--|--|--|--|
| DIGITAL EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS |                    |                                 |  |              | QUANTITY / VARIATION |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| PARTS LIST                                              |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| MADE BY <i>C. Stephenson</i>                            |                    | CHECKED D. HEALY                |  | SECTION      |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| DATE <i>9/25/69</i>                                     |                    | DATE <i>1-20-70</i>             |  | 1            |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| ENG <i>Alan Kent</i>                                    |                    | PROD <i>G. McLean</i>           |  | ISSUED SECT. |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| DATE <i>30 Jan 70</i>                                   |                    | DATE <i>2-9-70</i>              |  | 1            |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| ITEM NO.                                                | DWG NO. / PART NO. | DESCRIPTION                     |  |              | LT33-BB 50 Hz        | LT33-BA 60 Hz |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 1                                                       | 3004768            | Send-Receive Set 33TY           |  |              | 1                    | 1             |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 2                                                       |                    | "ME" Typewheel Teletype 183 599 |  |              | 1                    | 1             |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 3                                                       | 12-05693           | Cordset                         |  |              | 1                    | 1             |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 4                                                       | 12-05857-1         | 283B Plug                       |  |              | 1                    | 1             |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 5                                                       | 12-05857-2         | 404 B Jack                      |  |              | 1                    | 1             |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 6                                                       | 1602583            | Transformer Elgin 1725          |  |              | 1                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 7                                                       | 91-07673-12        | Cordset 12 feet                 |  |              | 1                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 8                                                       | 1204789            | Motor Teletype 182267 50 Hz     |  |              | 1                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 9                                                       | 1204850            | Drive Gear Teletype 181855      |  |              | 1                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 10                                                      | 1204849            | PINION Gear Teletype 181851     |  |              | 1                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 11                                                      | 1204848            | PINION Teletype 181850          |  |              | 1                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 12                                                      | 9006037-1          | SCR PAN HD 8-32 x 3/8           |  |              | 4                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 13                                                      | 9006690            | LOCK WASHER #8                  |  |              | 4                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 14                                                      | 9006650            | FLAT WASHER #8                  |  |              | 4                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 15                                                      | 9006561            | HEX NUT 8-32 x 5/16 x 1/8       |  |              | 4                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| 16                                                      | 7409045-2          | DECAL, VOLTAGE SPEC             |  |              | 1                    |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
|                                                         |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
|                                                         |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
|                                                         |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
|                                                         |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
|                                                         |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
|                                                         |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
|                                                         |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
|                                                         |                    |                                 |  |              |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |
| TITLE                                                   |                    | ASSY NO.                        |  | SIZE         | CODE                 | NUMBER        |  | REV. | ECO NO.    |  |  |  |  |  |  |  |  |  |  |
| TIMESHARING TELETYPE 33-ASR (TY)                        |                    | D-UA-LT33-B-0                   |  | A            | PL                   | LT33-B-0      |  | B    | LT33-00003 |  |  |  |  |  |  |  |  |  |  |
|                                                         |                    | SHEET 1 OF 1                    |  | DIST.        |                      |               |  |      |            |  |  |  |  |  |  |  |  |  |  |





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| DIGITAL EQUIPMENT CORPORATION<br>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               | Allen Kent  | 19 Feb 74 |
| <p>DISREGARD READER AND PUNCH INSTRUCTIONS ON KSR UNITS.</p> <ol style="list-style-type: none"><li>1. Put reader clip in holder; reader pins in upward position as originally received.</li><li>2. Use one tie wrap to hold carriage at left margin.</li><li>3. Mount printer unit to fiberboard platform with the eight (8) mounting screws and three (3) studs, originally provided.</li><li>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.</li><li>5. Teletypes should have transformer (if previously mounted) left in base stand.</li><li>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.</li><li>7. Teletype AC cable and signal cable should be placed on the plastic cover where paper roll normally goes and wrapped in kim pack.</li><li>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.</li><li>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.</li></ol> |             |            |            |                     |             |           |
| ENG<br>K. E. FITZGERALD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | APPD        | SIZE<br>A  | CODE<br>SP | NUMBER<br>LT33-0-10 | REV<br>B    |           |

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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  | A. 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   |



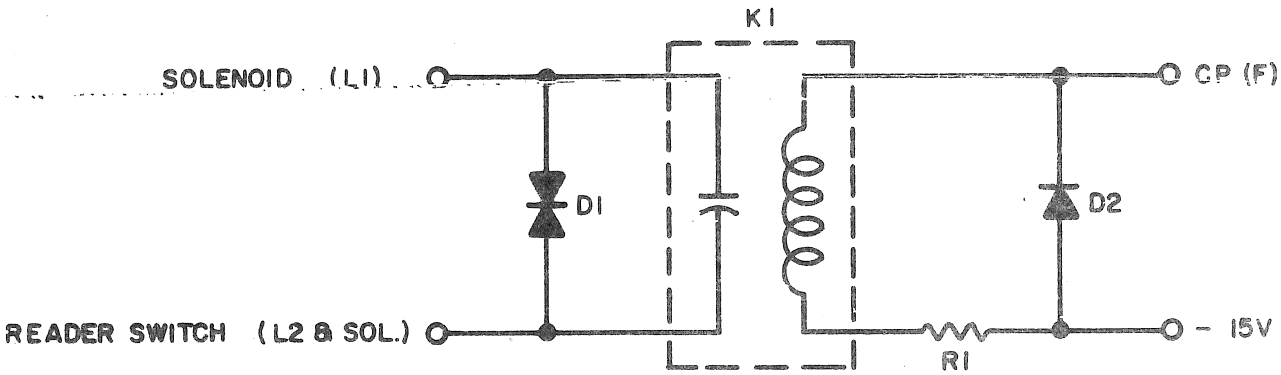
|                                                                                                                                                                                                                                                              |  |                    |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|-----|
| ENGINEERING SPECIFICATION                                                                                                                                                                                                                                    |  | CONTINUATION SHEET |     |
| TITLE TELETYPE INSPECTION PROCEDURES AND ADJUSTMENTS                                                                                                                                                                                                         |  |                    |     |
| 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 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.                                                                                                       |  |                    |     |
| SIZE CODE                                                                                                                                                                                                                                                    |  | NUMBER             | REV |
| A SP                                                                                                                                                                                                                                                         |  | LT33-U-13          | A   |
| DEC FORM NO 16-1022                                                                                                                                                                                                                                          |  | SHEET 5 OF 7       |     |
| DRA 108                                                                                                                                                                                                                                                      |  |                    |     |

|                                                                                                                                                                                                                                             |  |                    |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------|-----|
| ENGINEERING SPECIFICATION                                                                                                                                                                                                                   |  | CONTINUATION SHEET |     |
| TITLE TELETYPE INSPECTION PROCEDURES AND ADJUSTMENTS                                                                                                                                                                                        |  |                    |     |
| 6.0 PUNCH                                                                                                                                                                                                                                   |  |                    |     |
| Section 574-125-700TC, Issue 4, June 1969, Vol 2, Technical Manual Type ASR33 Teletypewriter.                                                                                                                                               |  |                    |     |
| 6.1 Sending 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 ball 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 ratcheted fully detented, move the feed pawl out of engagement with the gear, release slowly and see that it re-enters the gear with no perceptible 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 CODE                                                                                                                                                                                                                                   |  | NUMBER             | REV |
| A SP                                                                                                                                                                                                                                        |  | LT33-O-13          | A   |
| DEC FORM NO 16-1022                                                                                                                                                                                                                         |  | SHEET 6 OF 7       |     |
| DRA 108                                                                                                                                                                                                                                     |  |                    |     |

|                                                                                                          |  |                    |     |
|----------------------------------------------------------------------------------------------------------|--|--------------------|-----|
| ENGINEERING SPECIFICATION                                                                                |  | CONTINUATION SHEET |     |
| TITLE TELETYPE 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          | A   |
| DEC FORM NO 16-1022                                                                                      |  | SHEET 7 OF 7       |     |
| DRA 108                                                                                                  |  |                    |     |



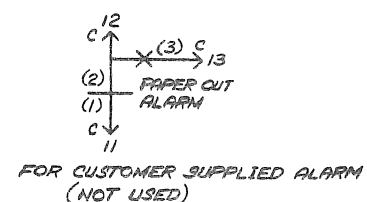
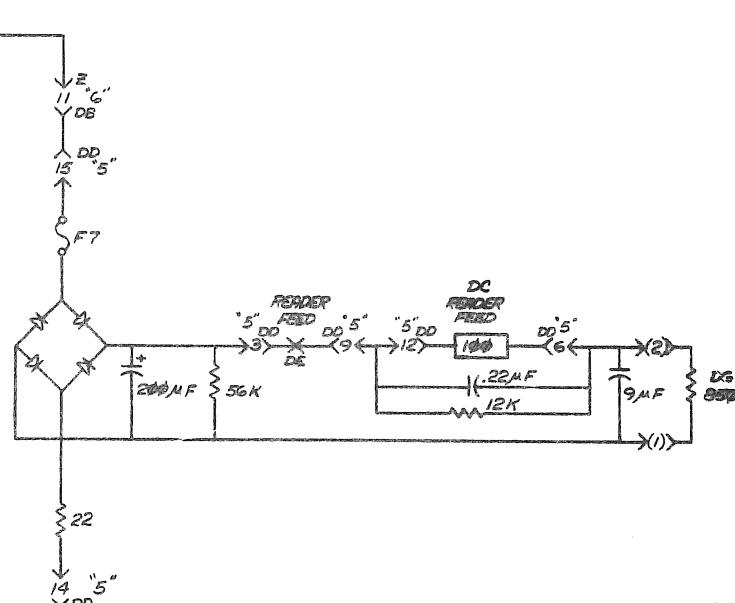
THIS SCHEMATIC IS FURNISHED ONLY FOR TEST AND MAINTENANCE PURPOSES. THE CIRCUITS ARE PROPRIETARY IN NATURE AND SHOULD BE TREATED ACCORDINGLY. COPYRIGHT 1965 BY DIGITAL EQUIPMENT CORPORATION



NOTE:  
K1 HAS NO OUTER SHIELD

|                       |                             |               |
|-----------------------|-----------------------------|---------------|
| K1                    | RELAY, REED 12VDC #300021D1 | 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 |
| REFERENCE DESIGNATION | DESCRIPTION                 | PART NO.      |
| PARTS LIST            |                             |               |

|                                                   |              |                                                                         |                                               |                                     |        |     |     |                                                 |                                       |            |                    |           |
|---------------------------------------------------|--------------|-------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------|--------|-----|-----|-------------------------------------------------|---------------------------------------|------------|--------------------|-----------|
| REVISIONS<br>CHG NO. REV.<br>REV. & REGR.<br>DATE | A<br>10/1/65 | DRN.<br>I. HAHN<br>CHK'D<br>R. SILVERMAN<br>ENG.<br>D.A. WHITE<br>PROD. | DATE<br>3-11-65<br>8-24-65<br>3-24-65<br>DATE | TRANSISTOR & DIODE CONVERSION CHART |        |     |     | EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS | TITLE<br>TELETYPE READER CONTROL 4915 |            |                    |           |
|                                                   |              |                                                                         |                                               | DEC                                 | EIA    | DEC | EIA |                                                 | SIZE<br>B                             | CODE<br>CS | NUMBER<br>4915-0-1 | REV.<br>A |
|                                                   |              |                                                                         |                                               | D664                                | IN3606 |     |     | PRINTED CIRCUIT REV. D                          |                                       |            |                    |           |
|                                                   |              |                                                                         |                                               | 20SP4B4                             | SAME   |     |     | DIST: 324/434/435                               |                                       |            |                    |           |



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

FIRST USED ON OPTION/MODEL  
PDP 10

|                                     |               |                          |  |                       |  |                                                                                                                                       |  |
|-------------------------------------|---------------|--------------------------|--|-----------------------|--|---------------------------------------------------------------------------------------------------------------------------------------|--|
| UNLESS OTHERWISE SPECIFIED          |               | DRN. <i>Johnson</i>      |  | DATE <i>9/2/69</i>    |  |  EQUIPMENT CORPORATION<br>MAYNARD, MASSACHUSETTS |  |
| UNLESS OTHERWISE SPECIFIED          |               | CHND. <i>W. Kent</i>     |  | DATE <i>1-3-70</i>    |  | TITLE                                                                                                                                 |  |
| DISCREPANCY IN INCHES               |               | ENG. <i>W. Kent</i>      |  | DATE <i>30 Jan 70</i> |  | READER CONTROL<br>CIRCUITS<br>(ISOLATED DIAGRAM)<br>[TIMESHARING ASR 33]                                                              |  |
| TOLERANCES                          |               | IND. ENG. <i>W. Kent</i> |  | DATE <i>30 Jan 70</i> |  |                                                                                                                                       |  |
| DECIMALS                            | FRACTIONS     | DOD. <i>U. M. Owen</i>   |  | DATE <i>2-9-70</i>    |  |                                                                                                                                       |  |
| ± .005                              | ± 1/64 ± 0/32 |                          |  |                       |  |                                                                                                                                       |  |
| FINISH SURFACE QUALITY              |               |                          |  |                       |  |                                                                                                                                       |  |
| REMOVE BURR AND BREAK SHARP CORNERS |               |                          |  |                       |  |                                                                                                                                       |  |
| MATERIAL <i>11</i>                  |               | NEXT HIGHER ASSY         |  |                       |  |                                                                                                                                       |  |
|                                     |               | <i>A-ML-LT33-BA-0</i>    |  |                       |  |                                                                                                                                       |  |
| FINISH <i>11</i>                    |               | SCALE                    |  | SIZE/CODE             |  | NUMBER                                                                                                                                |  |
|                                     |               | SHEET / OF /             |  | DBS                   |  | LT33 - B - CONT                                                                                                                       |  |
|                                     |               |                          |  | DIST.                 |  | REV B                                                                                                                                 |  |



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  
~~+~~ 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

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

| REVISIONS         |            |      |
|-------------------|------------|------|
| CHK               | CHANGE NO. | REV. |
| 1133              | 00003      | A    |
| M. Gower 10-21-71 |            |      |
| A. KENT           |            |      |

|                                                                    |  |                             |                     |                                                              |          |
|--------------------------------------------------------------------|--|-----------------------------|---------------------|--------------------------------------------------------------|----------|
| ABLE TELEPHONE<br>OR EQUAL<br>P.N. 1205857-1                       |  | QTY.                        | DESCRIPTION         | PART NO.                                                     | ITEM NO. |
| UNLESS OTHERWISE SPECIFIED                                         |  | PARTS LIST                  |                     |                                                              |          |
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS IN INCHES                 |  | DWG. NO. <i>1205857-1</i>   | DATE <i>2/27/68</i> | digital EQUIPMENT CORPORATION<br>BAYVIEW, MANASSAS, VA 22106 |          |
| TO GRANCES<br>DECIMALS FRACTIONS ANGLES<br>2 1/8 2 1/4 2 3/4       |  | DWG. NO. <i>1205857-1</i>   | DATE <i>3/19/68</i> | TITLE                                                        |          |
| FURNISH SURFACE QUALITY<br>REMOVE BURRS AND BREAK SHARP<br>CORNERS |  | ENG. <i>Allen Kent</i>      | DATE <i>2/27/68</i> | PDP 10 TELETYPE                                              |          |
| MATERIAL                                                           |  | CHK. ENG. <i>Allen Kent</i> | DATE <i>2/27/68</i> | MODEL 33KSR                                                  |          |
| FINISH                                                             |  | APPROVED <i>W. H. H. H.</i> | DATE <i>1/14/68</i> | FIRST USED ON                                                |          |
|                                                                    |  | D-UA-LT33A-O-O              |                     | SIZE CODE                                                    | NUMBER   |
|                                                                    |  |                             |                     | DICLT33A-O-O                                                 | REV A    |
|                                                                    |  | SCALE                       |                     |                                                              |          |
|                                                                    |  | SHEET OF                    |                     | DIST. 16                                                     |          |



