

# APPARATUS FIGURES

CAPACITORS (NOT ON CICT CARD ASSEM.) SMD CONN C1 (LOCAL LOOP SUPPLY) 3C3 C2 (SELECTOR MAG. DRIVER) 1E4 C3 (MOTOR START) CIRCUIT CARD ASSEMBLIES AUTOMATIC READER 183079 READER FEED SUPPLY SHEET & ROR LOGIC

MANUAL REACER 163087 SHEET 8

SOCKET

181819

TERM

A

0

H

×

N

J = FRAME SIDE, P = CABLE SIDE

CONNECTORS NUMBERED

CONNECTOR SHELL

JANDP

TERMINAL

12

13

5C4

DESIGNATION

TERM	FS/LOC
1	9C3
2	
3	903
4	193
5	186
6	156
7	183
	103
9	1C3

J = CABLE SIDE P = FRAME SIDE

1 2 3 4 5 6 7 8

FS/LOCATION

203 - 596 905 1135 203 283 205

203 - 586 - 706 203 253 205

203 1105 - 985 706 203 283 205 203 1105 - 505 703 203 283 205 203 403 - 505 764 203 283 205

 263
 463
 509
 768
 203
 283
 263

 263
 463
 603
 706
 203
 283
 265

 263
 463
 663
 706
 203
 283
 205

 263
 483
 664
 765
 203
 283
 205

 262
 186
 763
 203
 283
 205

50.4 - 705 - - 605 - 503 - 70.5 - - 685 - - 704 - - 685 - -

- 706 106 706 906 266 207 - 765 6A3 786 596 226 503

- - 6A4 - 755 - 5C3

RECEPTACLE COPO CONVENIENCE OUTLET PONER 9C1 RELAYS DIGGES (NOT ON CKT. CARD ASSEMBLY) HODE CRO COTIL

TERMINAL 2 982 TERMINAL 3 4C3 TERMINAL 4 4C3 TERMINAL 5 404 TERMINAL 6 4E2 TERMINAL ? 442 TERMINAL 8 1C3 CONTACTS: TERMINAL 9 103 1.2.3 445

FORM TERMS С DISTRIBUTOR 4.5.6 **4€5** C 7.8.9 405 С 10.11.12 4C5 A 13.14 4E4 B 15.16 4C3 404 17.18

THYRISTOR (TRIAC) (NOT ON CKT CARD ASSEN.) 1007

TERMINAL STRIP

TERMINAL 1

X (CUSTOMER INTERFACE)

902

**FUSES** FI (MAIN) F2 (SMD) F3 (48VAC) 985 F4 (MOTOR) 1094 F5 (READER)

MOTOR START 10C4 TDC (P/O 183079 CKT. CARD ASSEM.) COIL 784

TRANSISTOR (NOT ON CKT. CARD ASSEM.) 02 OF SHD ASSEMBLY 105

CONTACTS:

SWITCH

MODE

LOW PAPER

703 706 606

5C2

983

ELAPSED TIME INDICATOR 9C4

COVERNOR

MAGNETS

ANSRERBACK TRIP

DISTRIBUTOR TRIP

READER FEED

SELECTOR

1006

643

806

RESISTORS (NOT ON CKT.CARD ASSEM.)

R1 1007 R6 OF RDR PNR.PACK 806

TRANSFORMER T1 SHD 103

TZ 48V AC

1102

CONNECTORS, TITLED

10 104

11

14

13 105

15 1E4

SELECTOR HAGNET

DRIVER CARD

181821

3 105

TERM FS/LOC

196

1E5

104

183

104 12 106

193

READER POWER PACK COME. J - CARD SIDE

P - CABLE SIDE			
	FS/LOC		
TERM.	HAN. AMD AUTO.	AUTO. ONLY	
1		7C3	
2		784	
3	884		
4		506	
5		706	
6	8C6		
7		6C6	
		783/11C6	
9	805		
10		7C6	
11		703	
12	886		
13		785	
14	906		
15	986		

CONTACTS

ANSTRERBACK	208
BREAK KEY	2E6
FORMENG OUT FUNCTIONS	6E3
901	705
003	706
ENQ	7E6
EOT	595
REYBOARD	283
PAPER OUT	502
PARALLEL INTERFACE	203
READER FEED	885
READER (SIGNAL)	2C3
START (AUTO READER)	706
STOP (AUTO READER)	786
TAPE OUT (AUTO READER)	7R6
TIGHT TAPE (AUTO READER)	G <b>B6</b>
TIGHT TAPE, TAPE OUT:	
STOP (MANUAL READER)	665

HOTOR

SYNCHRONOUS SERIES GOVERNED	1004 1006	TERMINAL FIELD	
		TERMIDIAL	
		1	906
		2	986
		3	110
		4	118
METHURKS		5	
_		6	•
<u>n</u>	202	7	
22 23	683 1007		383

MODEL 33 RO, KSR AND ASR SETS 3300, 3310, 3320 SERIES

TELETYPE 1180SD-C1

ISSUE

NOTES

CIRCUIT NOTES

101. FUSING

DESIGNATION	FUNCTIONAL TITLS	FUSE AMP.	POTENTIAL AT FUSE	PHYSICAL LOCATION
F1	MAIN SET FUSE	3A SL-BL	115VAC	CALL CONTROL UNIT
F2	SHO FUSE	3/8A SL-BL	•	•
F3	48VAC SUPPLY	1/2A SL-BL	•	•
F4	MOTOR FUSE	DEPENDS ON MOTOR USED. SEE SHEET BLO	•	TYPING UNIT
F5 ,	, READER FUSE	3/4A SL-BL	•	READER POWER PACK AT FRONT OF CALL CONTROL UNIT

VOLTAGE SYMBOL VC TAGE RANCE

115V AC 103VAC TO 127VAC

FREQUENCY RANGE

60HZ SETS ± 3/4% 50HZ SETS ± 3/4%

50-60Hz SETS 48 TO 62Hz

### 102. OPTIONS

	OPTION	FS LOC	ACTUAL LOC	FACTORY PROVIDED
×	20MA SIGNAL INPUT	1C3. 385	9336MD.	
	SCMA SIGNAL INPUT	103. 305	1A5, 203	•
×	HALF DUPLEX SIGNALING	4C4. 4E4	9335ND,	•
$\Box$	FULL DUPLEX SIGNALING	]	2E.3	
1	EVEN PARITY NEYBOARD	1		•
*	LEVEL 8 ALWAYS MARK	283 AND 9334MD	9334MD	
	LEVEL & ALMAYS SPACE			

\*SELECT ONLY ONE OPTION FROM THIS GROUP

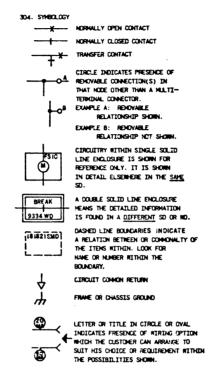
### EQUIPMENT NOTES

201. THIS DRAWING SHOWS ALL WIRING AND ELECTRICAL COMPONENTS USED ON THIS SERIES OF SETS. THE PRESENCE OF A GIVEN COMPONENT ON A PARTICULAR SET, HOWEVER, DEPENDS UPON THE FEATURES ORDERED ON THAT SET.

### INFORMATION NOTES

301. SHEET COOPDINATES LOCATION LEGEND

- 302. ( ) TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESE ARE FOR REFERENCE AND ARE NOT MARKED ON THE COMPONON.
- 303. ALL RESISTANCE VALUES IN CHAS AND CAPACITINGS VALUES IN MICROFARADS URLESS OFFERMISE SPECIFICS.



WIRING STATUS:

00-8 B-DENOTES WIRING BEFORE THE CHANGE DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT.

OO-A A-DENOTES WIRING AFTER THE CHANGE DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT.

MODEL 33 RO, KSR AND ASR SETS 3300, 3210, 5320 DERIES

11503D-D1

# NOTES GENERAL INFORMATION

## COILS

NUMBER FUNCTION WOLTAGE RATING

272 M ANSKER BACK TRIP 48 VAC ±10%, 50/60 Hz 279 M REACER TRIP 48 VAC ±10%, 50/60 Hz

300 M REACER TRIP 115 VAC ±10%, 50/60 Hz

COTL RESISTANCE

24 VCC ±10% 110 g ±10x

24 VDC ±10% 110 g ±10x

780 0 \*10 x

## RELAYS

NUMBER **FUNCTION** 

178306 MCTOR CONTROL

VOLTAGE RATTING

16-28 VCC CONTACT RATING 1/2 HP 125-250 VAC, 8 MPS @ 250 VAC

COIL RESISTANCE PICK UP TIME

440 g ±10% 25 ms HAX.

RELEASE TIDE CONTACT BOUNCE

16 ms MAX. 5-7 ms MAX.

## SWITCHES

NUMBER FUNCTION VOLTAGE RATING

182037 FUNCTIONS DC1, DC3, ENQ & ECT

115 VAC 115 VCC

100 MA (INC & RES) AC 100 MA (DIC & RES) DC N/SPARK PRCT.

10-45 400 2 APS AC 15 MA (INC) 300 MA (RES) DC

183445

181441 PAPER ALARY-SPROCKET FEED PAPER ALARM-FRICTION FEED 115 VAC 120-240 VAC 30 VOC

5 APS AC

155954 186848 LOW TAPE NOC. KIT

125-250 VAC 30 VCC

5 AMPS (RES) AC 3 MPS (IND) 4 MPS (RES) DC 3 MPS (IND) 4 MPS (RES) DC

1/12 HP. SINGLE PHASE SERIES

3600 FPH WITH SPEED REGULATOR

115 VAC :10%, 50/60 CYCLE

TIME FROM END OF START PULSE TO CONTACT OPERATION 140-150 es DURATION OF BOUNCE

MAXIMUM CONTACT CURRENT

3 06 CURATION OF OPERATION INCLUDING BOUNCE

35-40 ms

### MOTORS

NUMBER

RATEC LOAD

DESIGNED SPEED

VOLTAGE RATING

START CURRENT

181870 33 MP. SINGLE PHASE, SYN.

3600 RPM 9 02. IN.

115 VAC ±108, 60 CYCLE

7 MPS RUN-CURRENT-PATED LOAD 2 MPS

TIME TO REACH SYNCHRONOUS SPEED-RATED VOLTAGE :102 PORER FACTOR-RATED LOAD

. 4 NONDOL LAG ANGLE-RATED LCAD 6 DEGREES NOVOKAL MINDAUM INTERVAL BETWEEN REPEATED HOTOR STARTS 20 SECORES MIN.

NITHIN 1 SECOND

NITHIN 1 SECOND .4 NOONE 6 CEGREES NOMINAL

182241

3600 RPM

9 OZ. DX.

11.5 MPS

1.6 MPS

33 MP. STROLE PHASE, SW.

115 VAC ±10%, 60 CYCLE

20 SECCIACS NON.

182267 35 MP, SINGLE PHASE, SYN

3000RPH

10.8 OZ. IN. 115 VAC ±10%, 50 CYCLE 10.7 MPS

1.7 MPS RITHIN 1 SECOND

.4 NOKINAL 8 DEGREES NONINAL

20 SECONDS KON.

MITHUN 1 SECOND .6 NONDNAL

183991

9 CZ. IN.

2.5 MPS

.9 APS

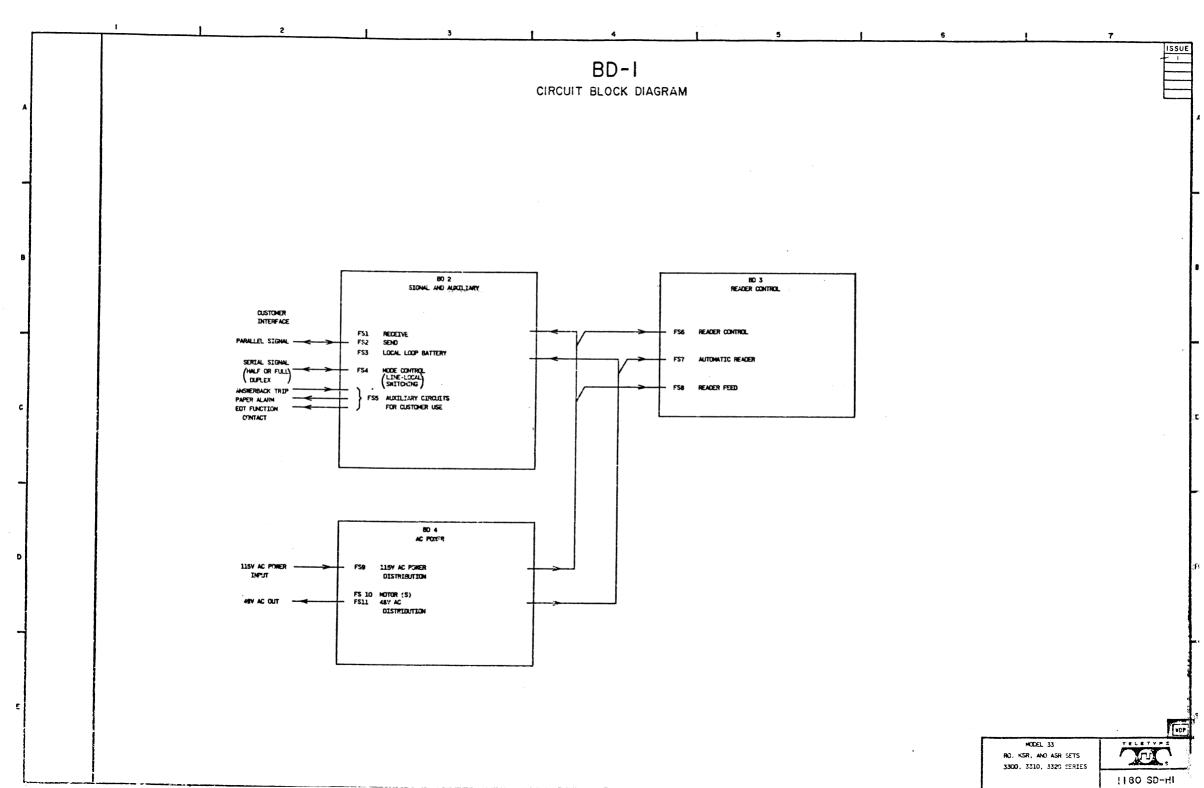
20 SECONES MEN.

MODEL 33 PO, KSR AND ASR SETS

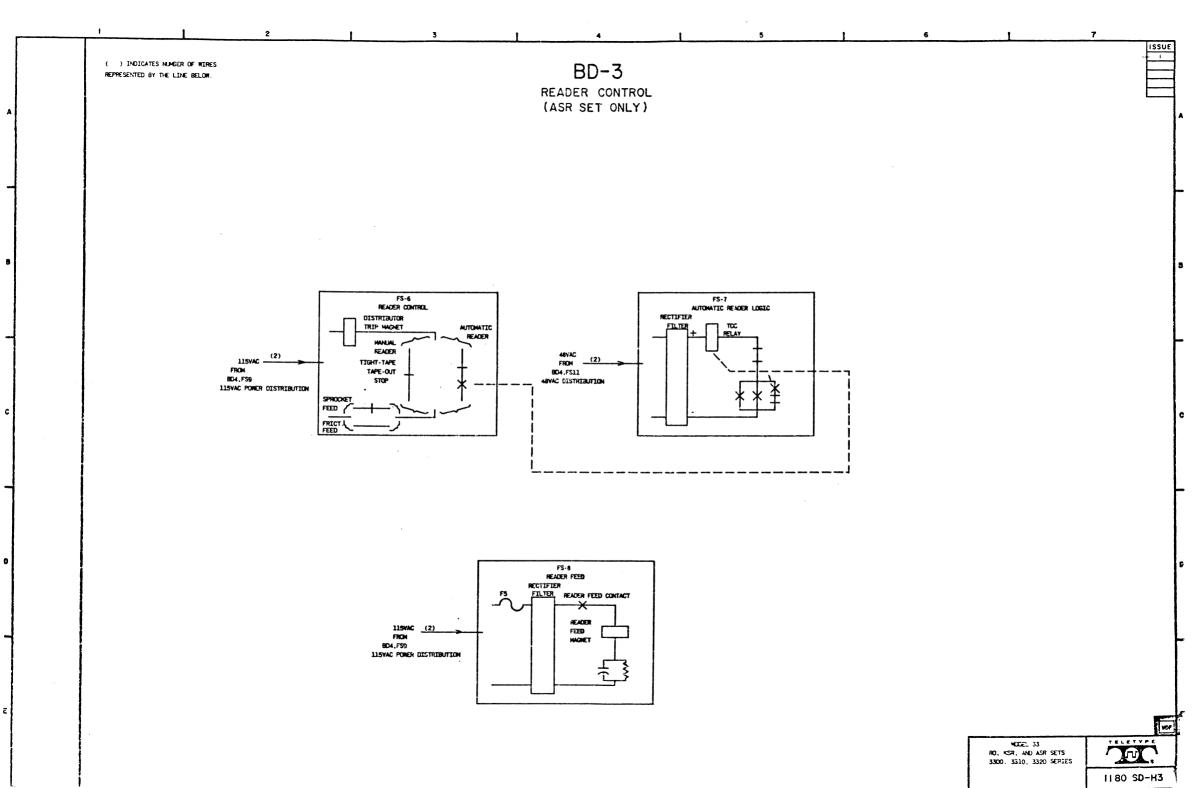
NOP

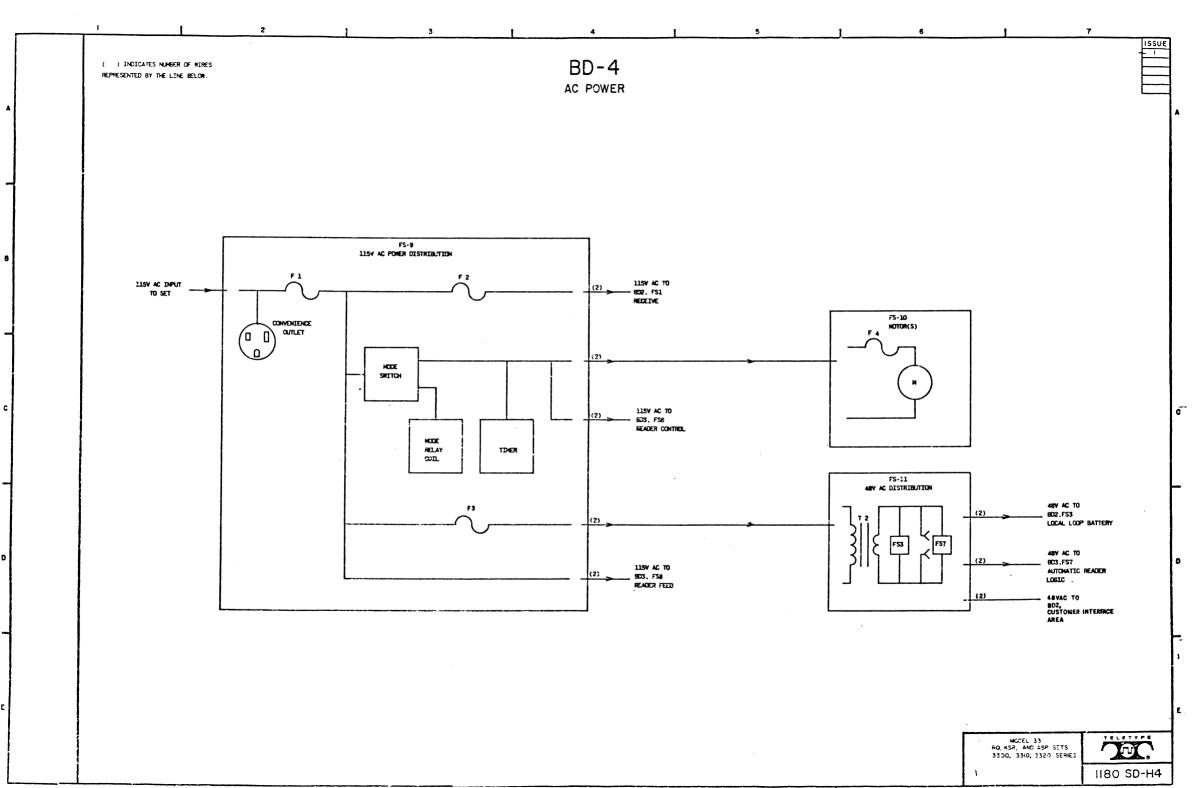
ISSUE

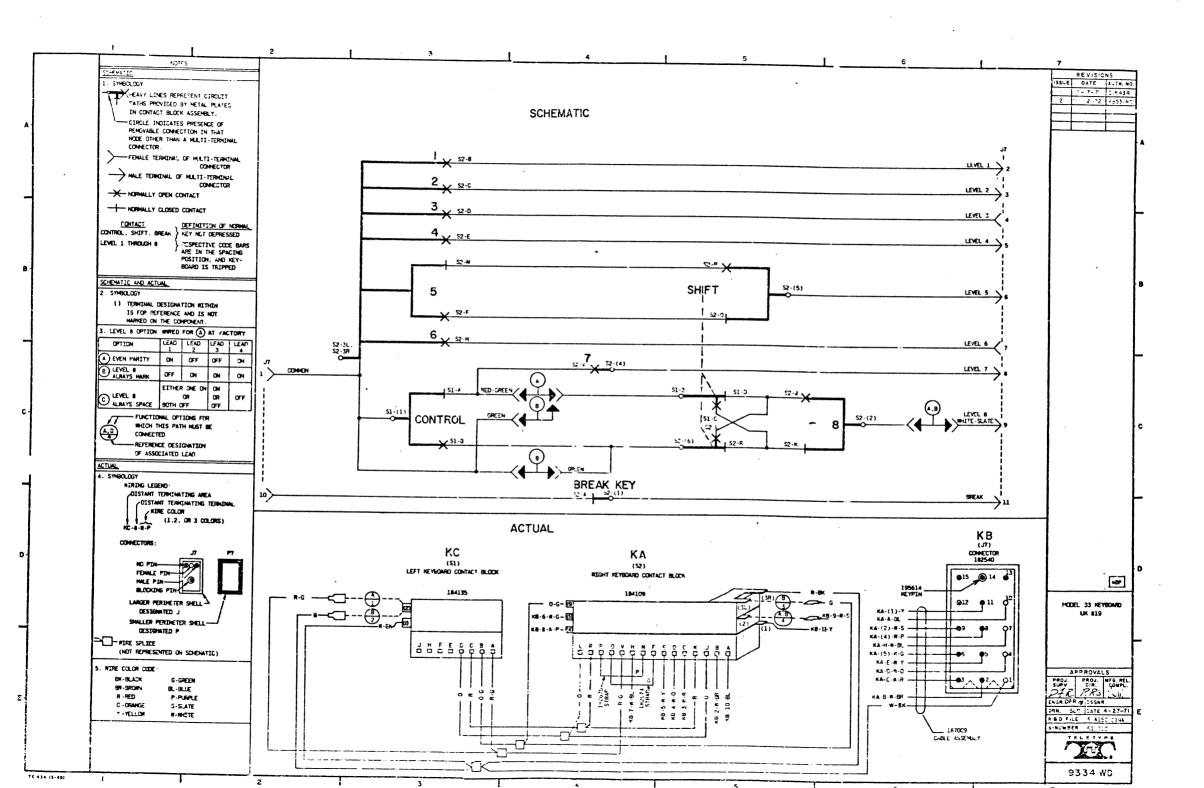
3300, 3310, 3320 SERIES 18050-02

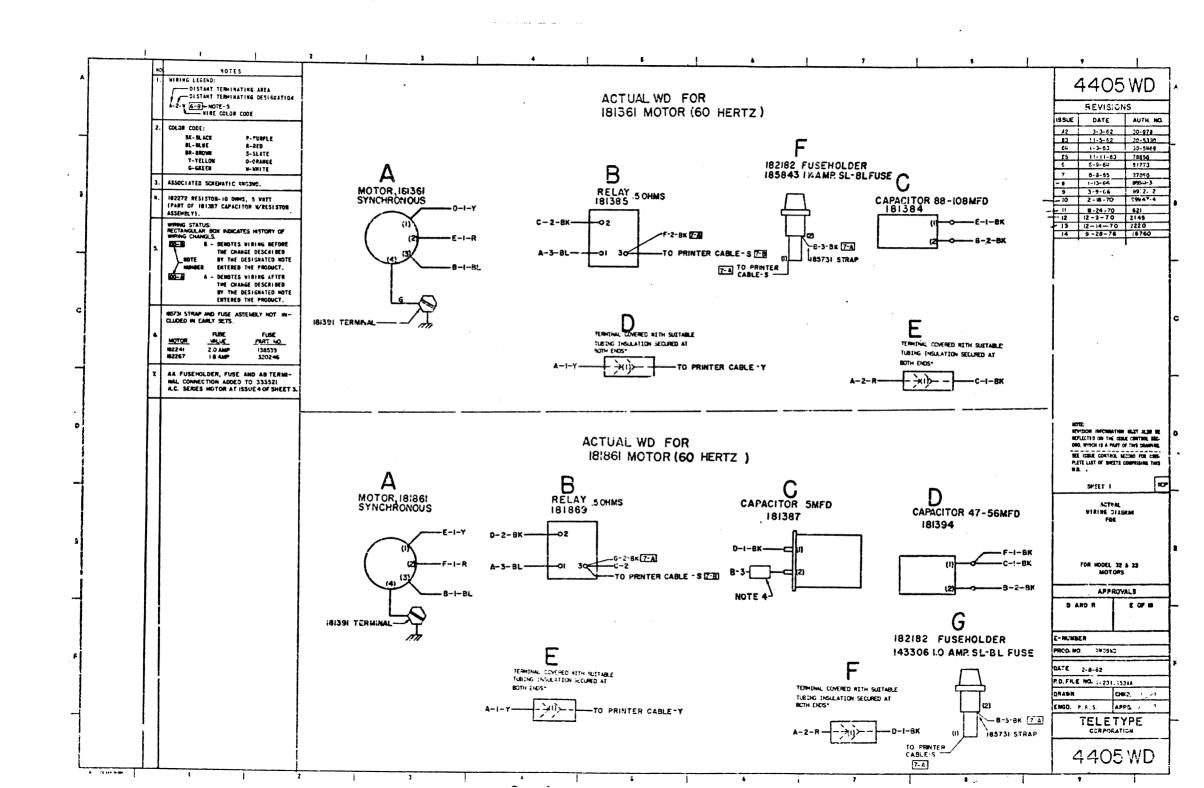


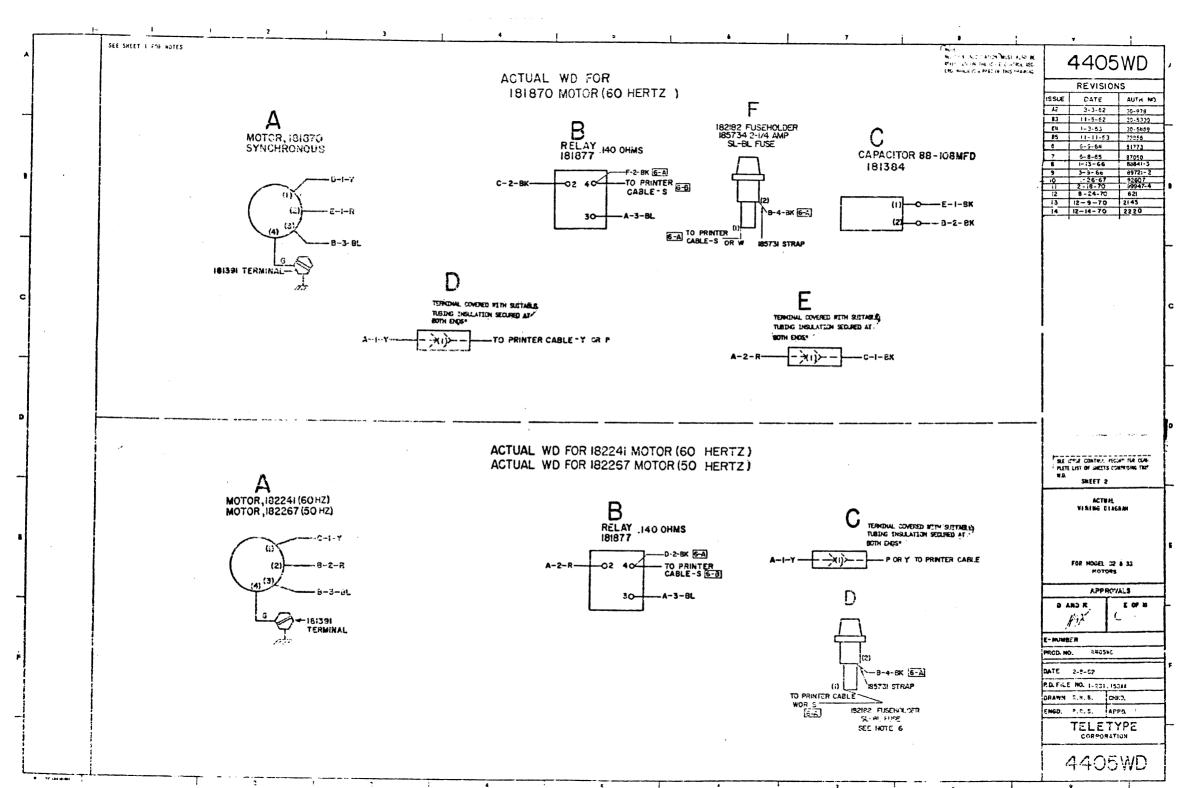
BD-2 ( ) INCICATES NUMBER OF NIRES REPRESENTED BY THE LINE BELOW. SIGNAL AND AUXILIARY CUSTOMER FS-4 115V AC FS-1 FROM (2) 804,FS9 (2) INTERFACE HODE CONTROL RECEIVE SELECTOR (LINE HODE ) SELECTOR MAGNET DRIVER MAGNET 115V AC PONER DISTRIBUTION (2) OR (4) SERIAL SIGNAL (HALF OR FULL DUPLEX) 60M. FS-2 SEND MBO\_HOP\_A/R (EXTERNAL) DISTRIBUTOR OPTION: (2) STOP HALF OR FULL DUPLEX (9) FS-3 LOCAL LOOP CURRENT SUPPLY 20m + W +\_< `OPTION 60W 4 48V AC (2) 65V DC FROM BO4,FS11 48V AC DISTRIBUTION PARALLEL SIGNAL -F5-5 AUXILIARY CIRCUITS FOR CUSTOMER USE AMENEPSACK ANSWERFACK TRUP MAGNET TRIP MAGNET PAPER ALARM PAPER ALARM EOT FUNCTION (2) EOT FUNCTION CONTACT \_\_ CONTACT 10P 48V AC FOR CUSTOMER USE 46Y AC FROM 804 (FSI) 43Y AC DISTRIBUTION TELETYPE MODEL 33 RG, KSR, AND ASR SETS 3300, 3310, 3320 SERIES 1180 SD-H2 75 540 (5-42)

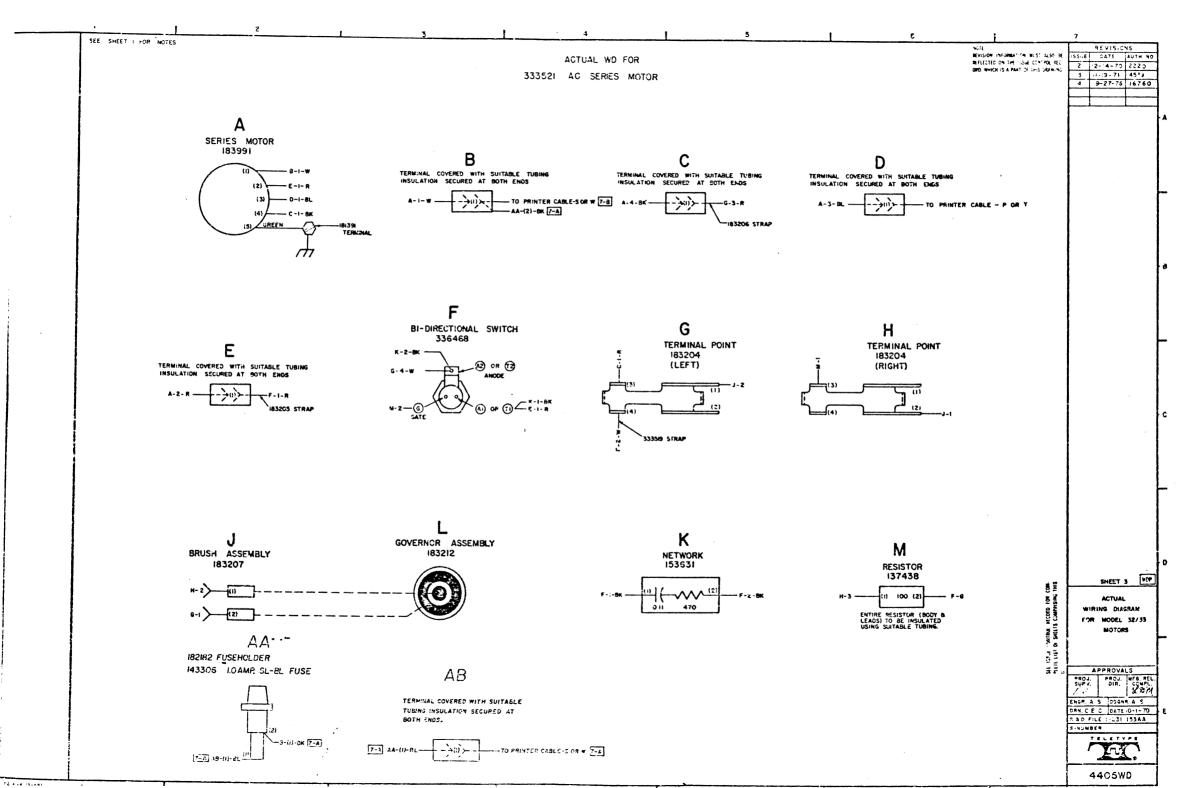


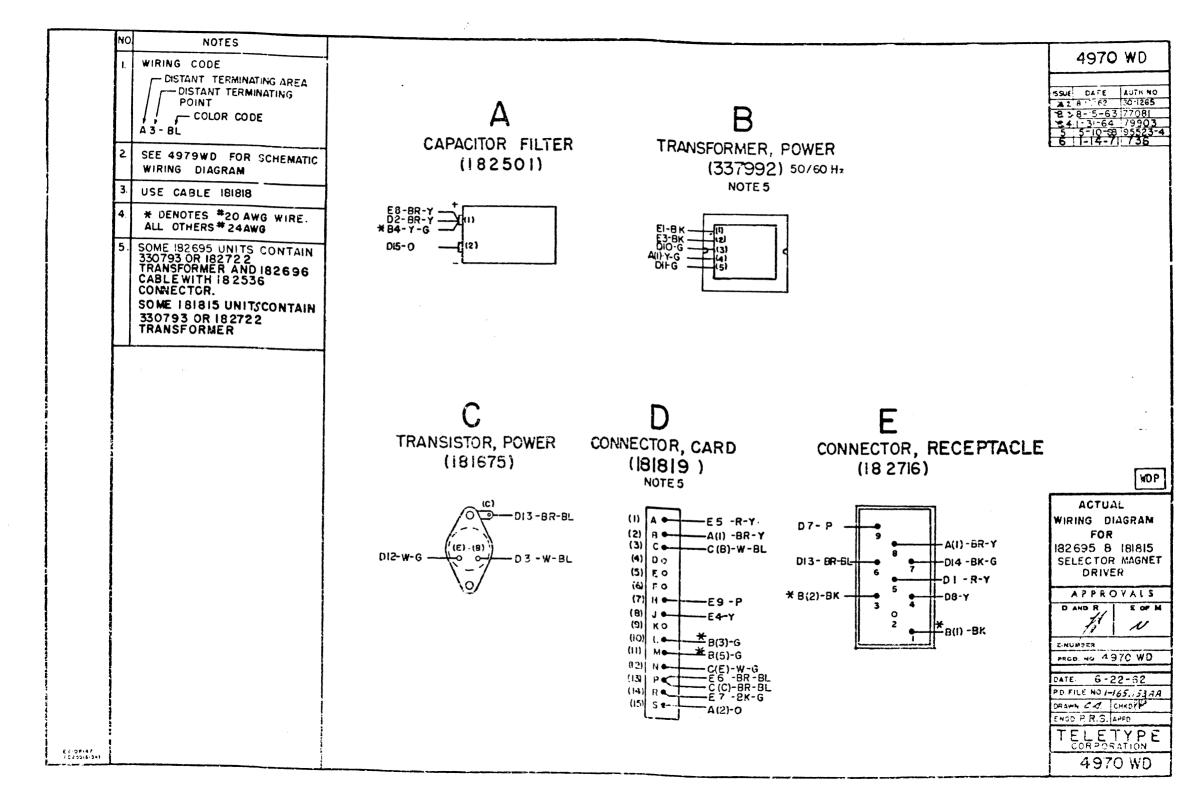


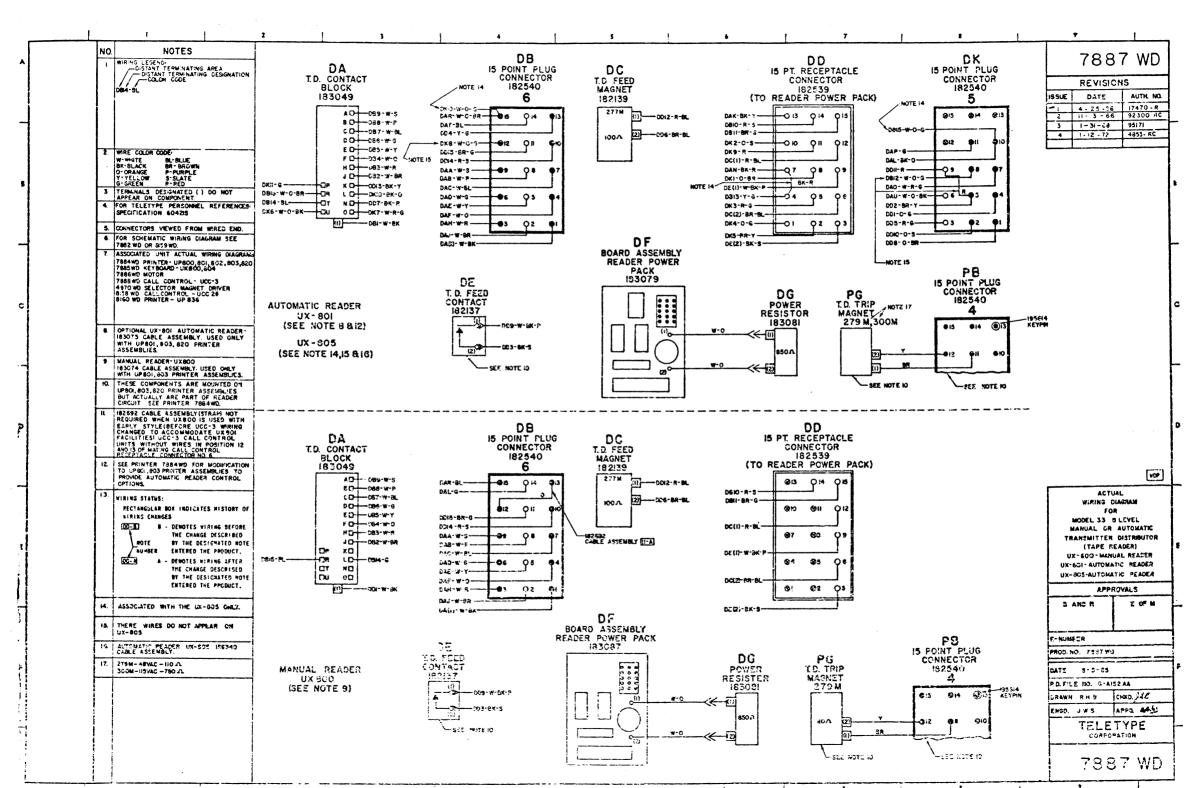


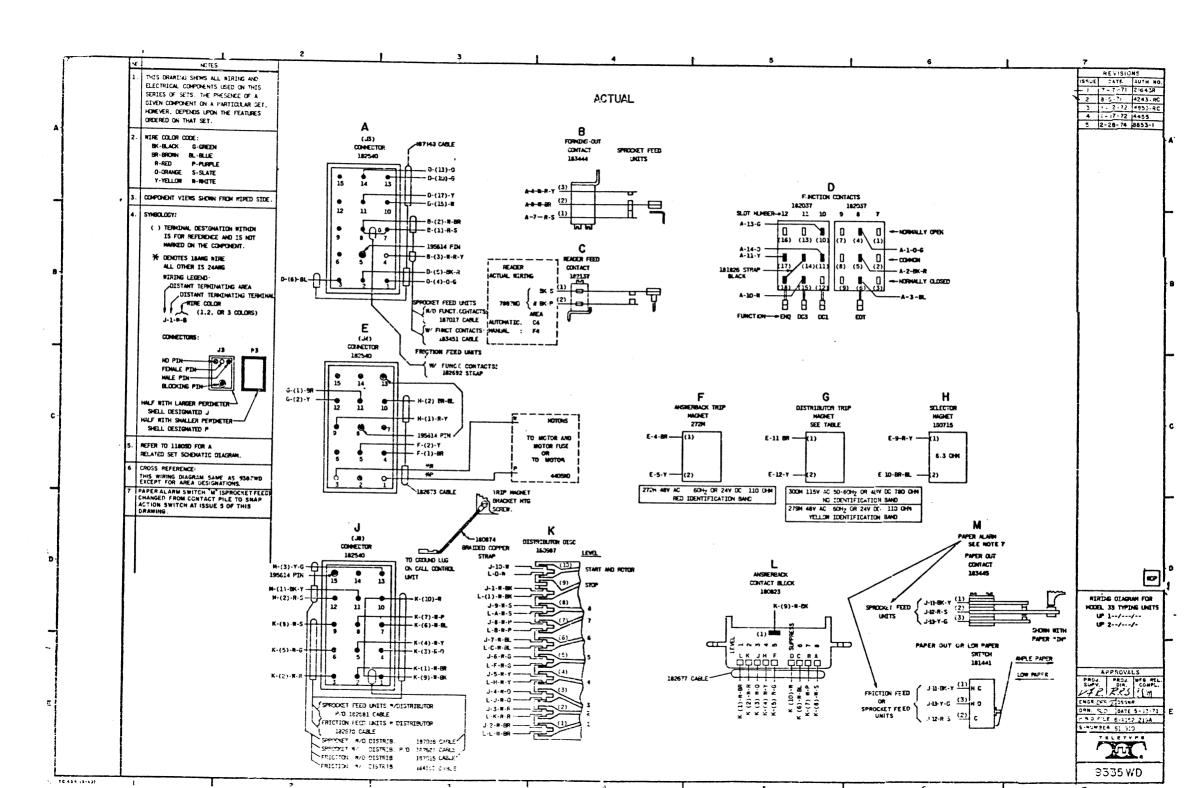


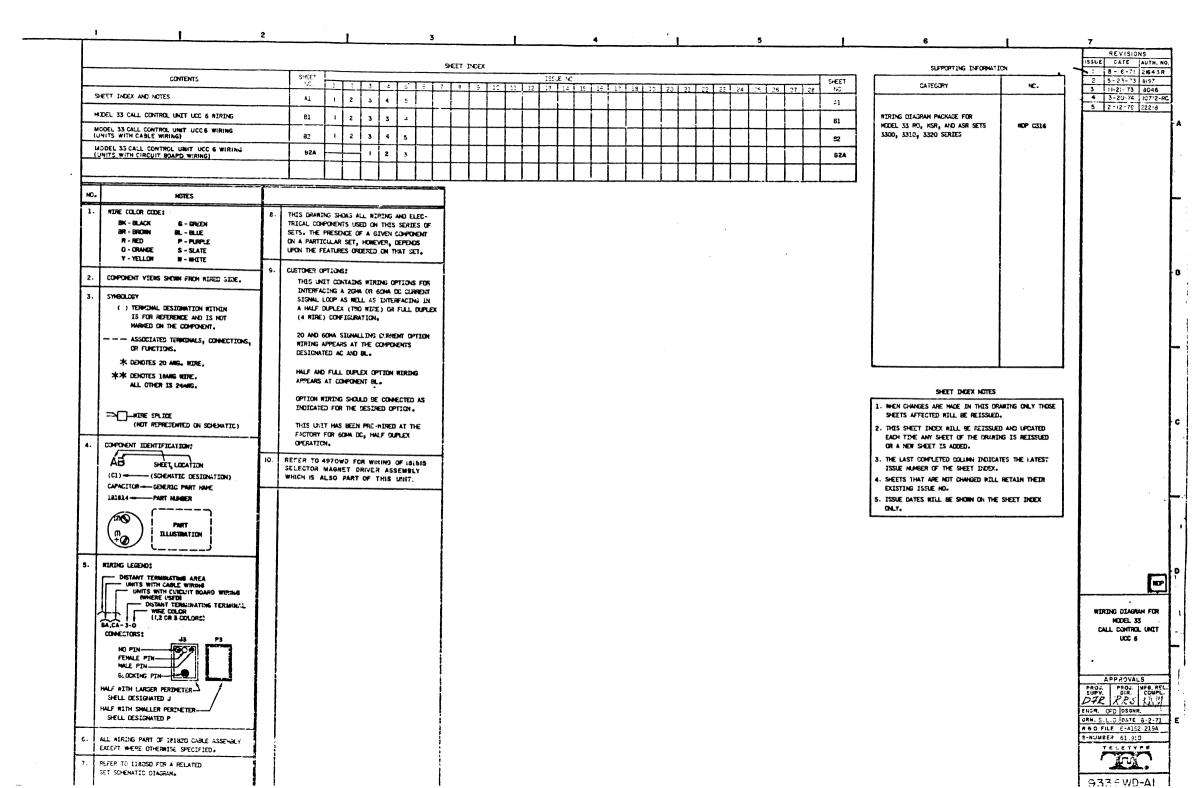


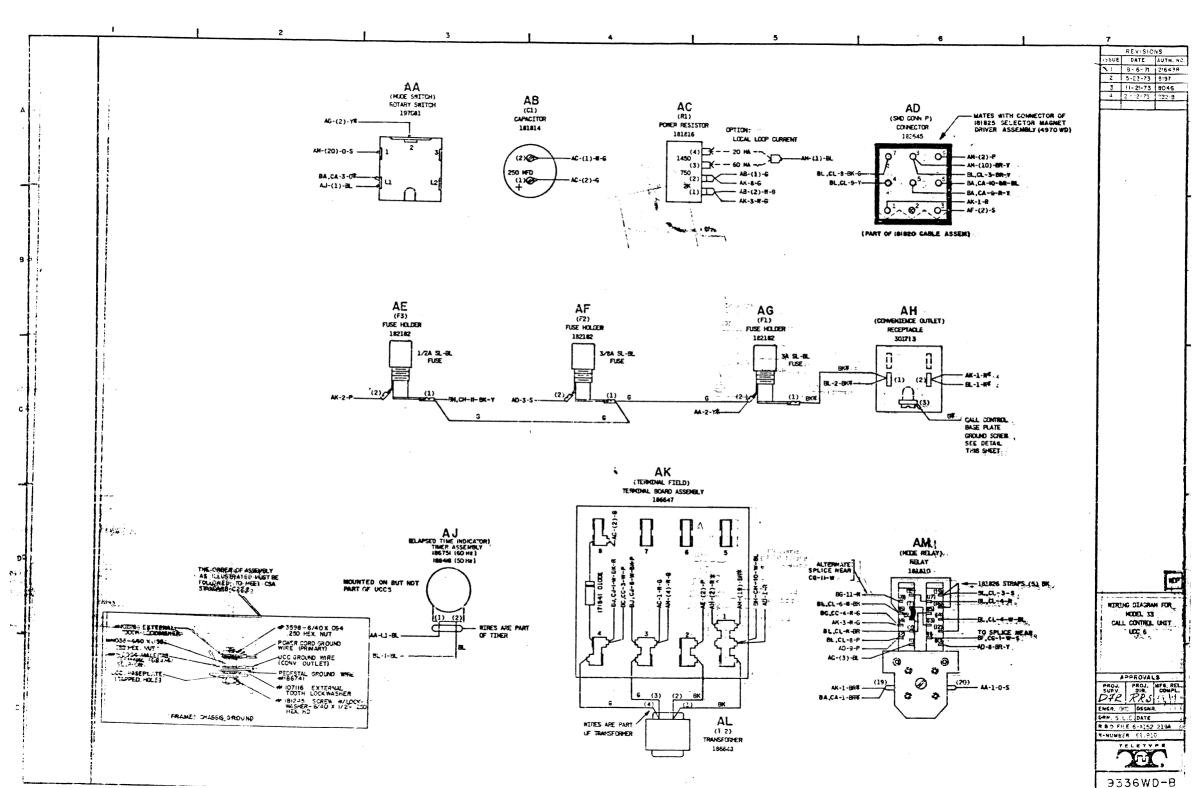


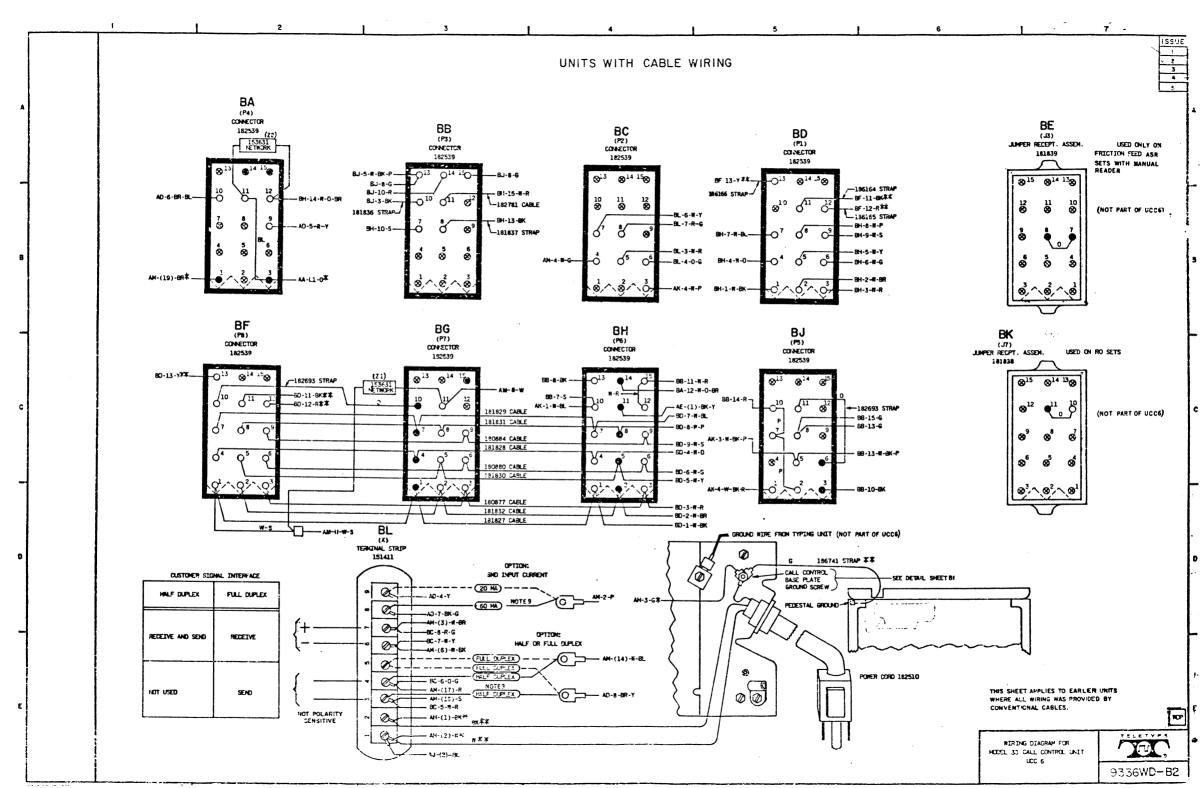


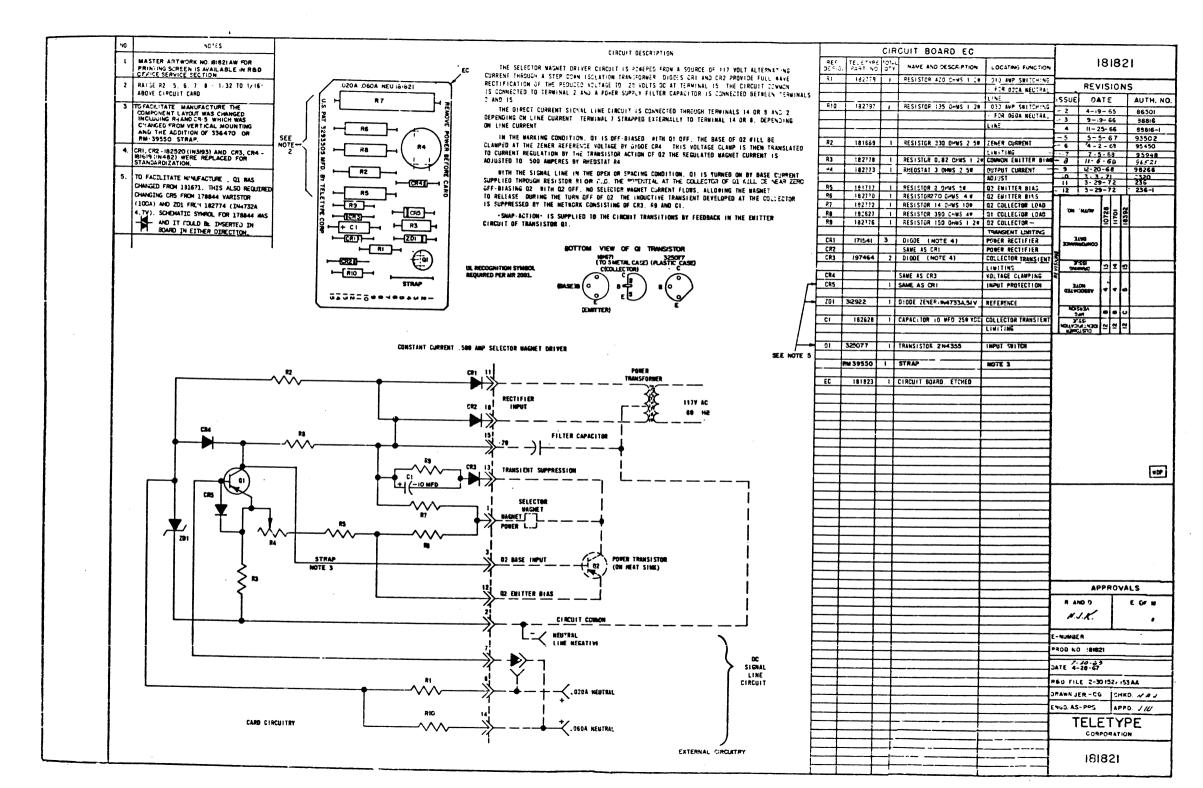


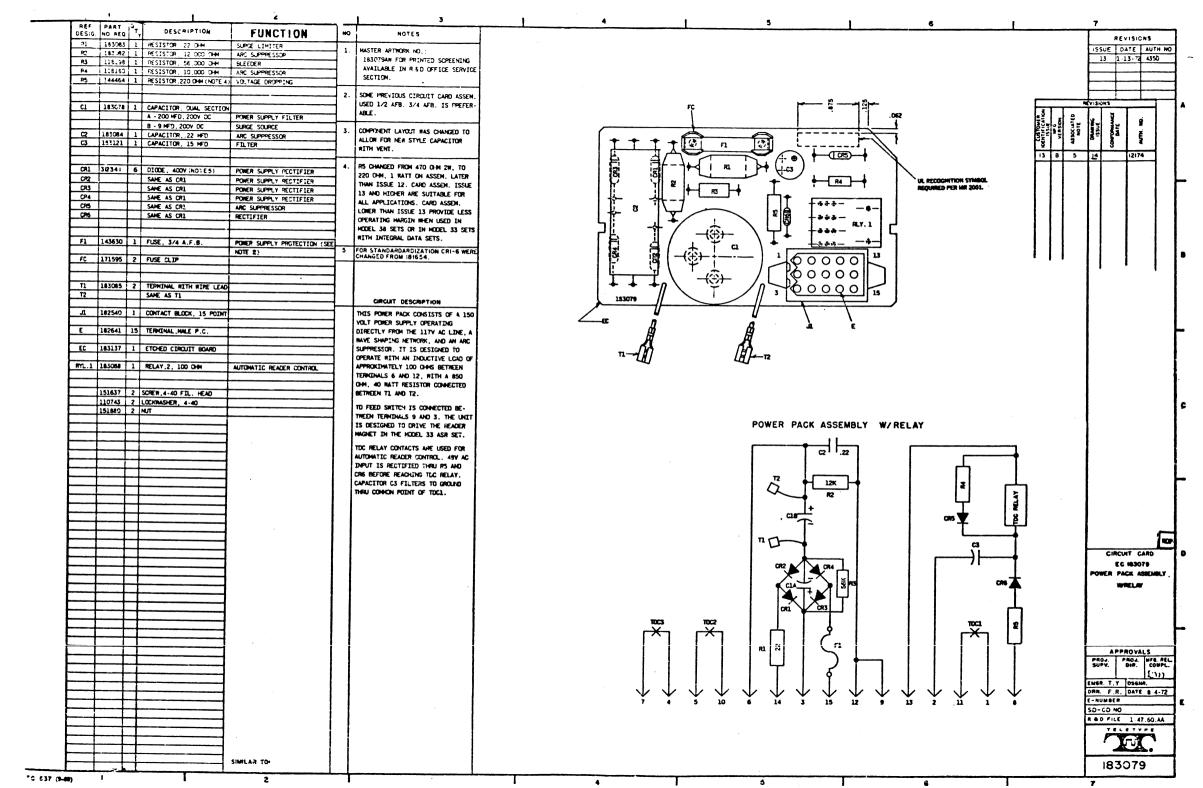


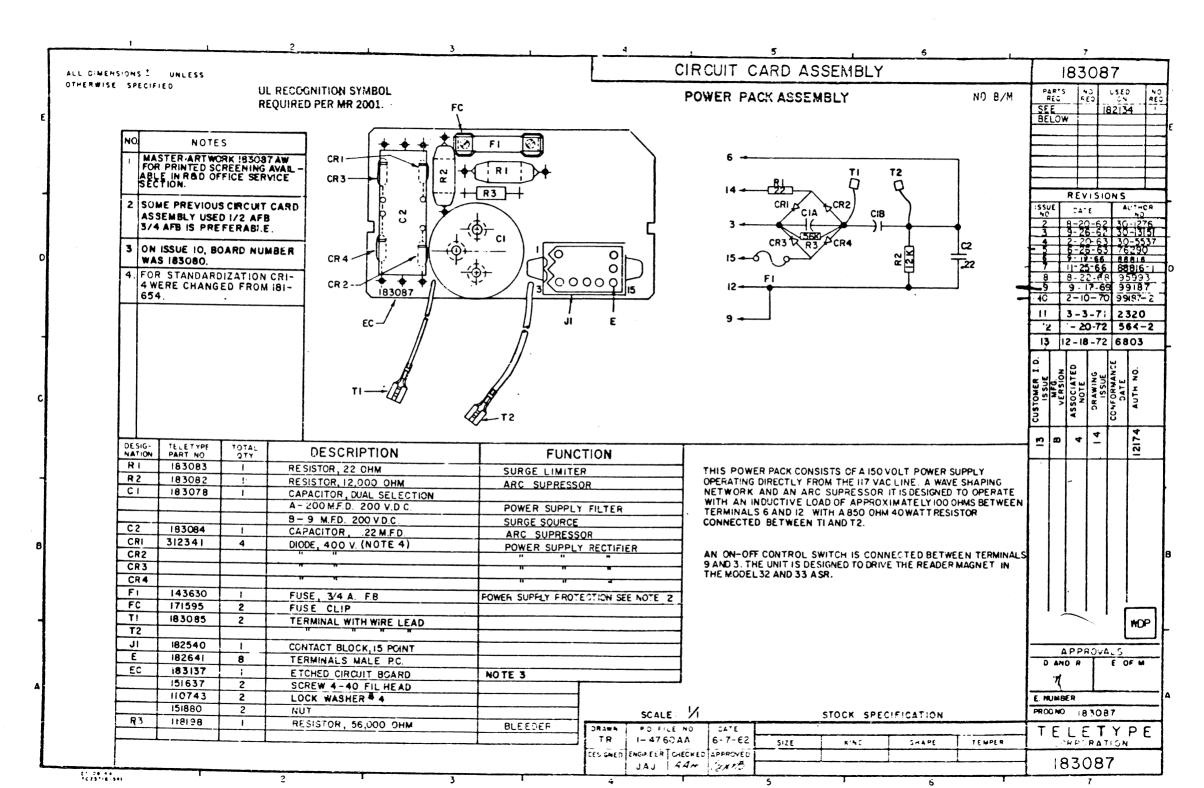


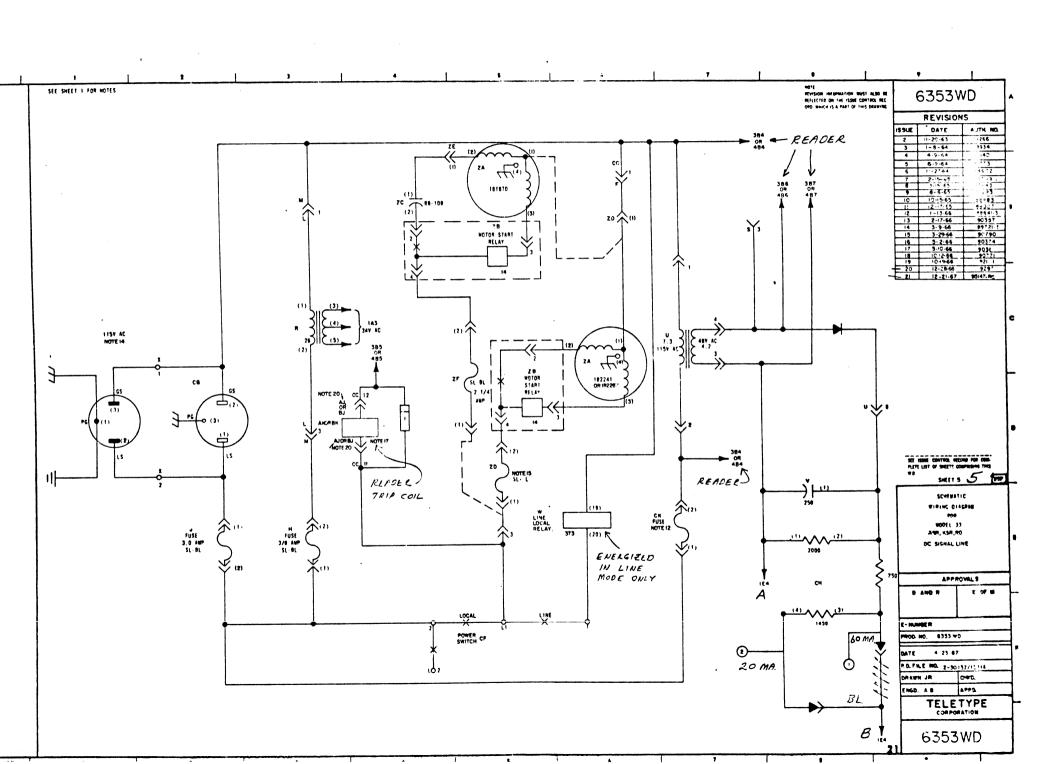


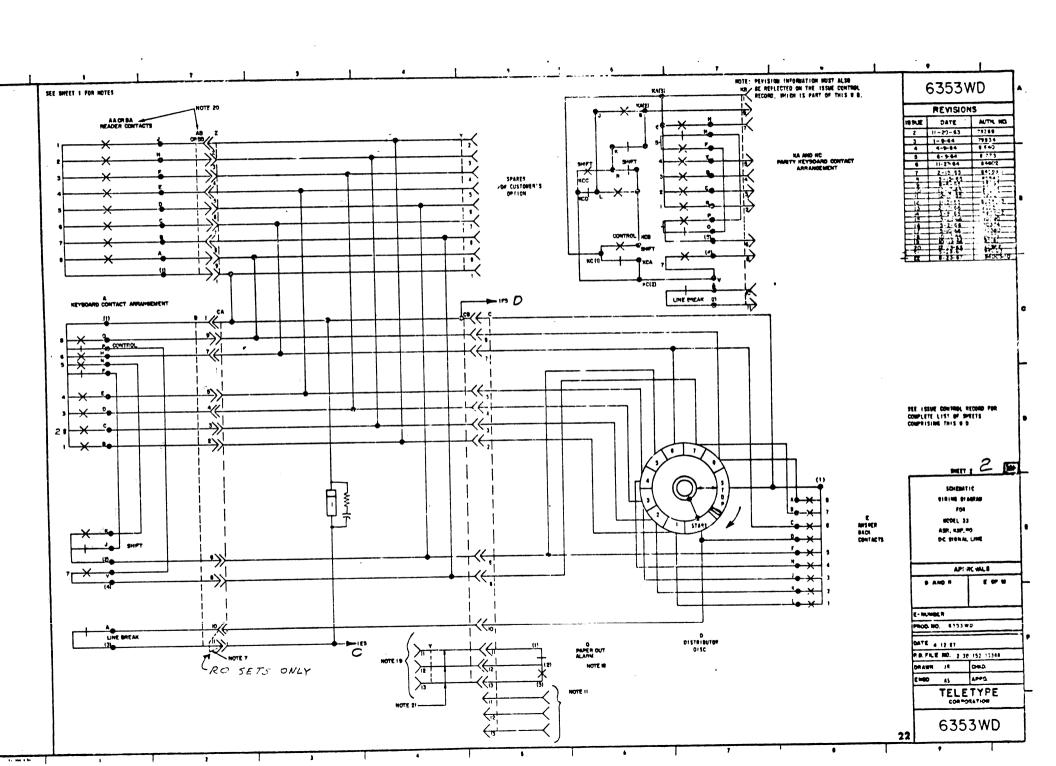


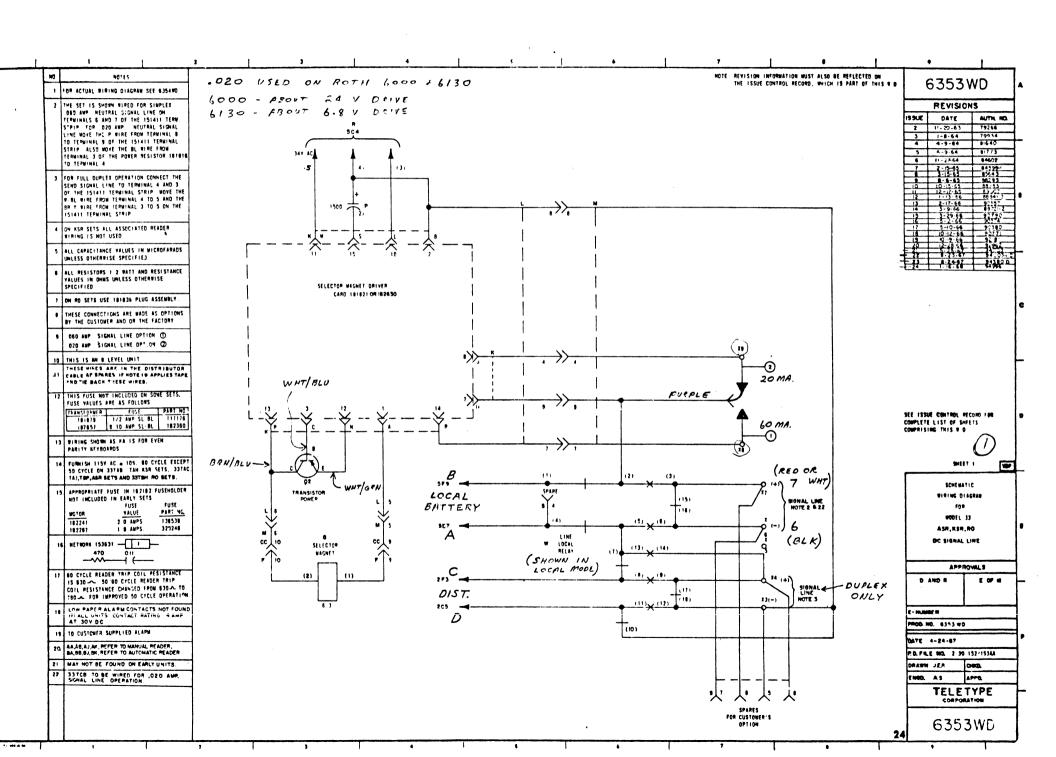


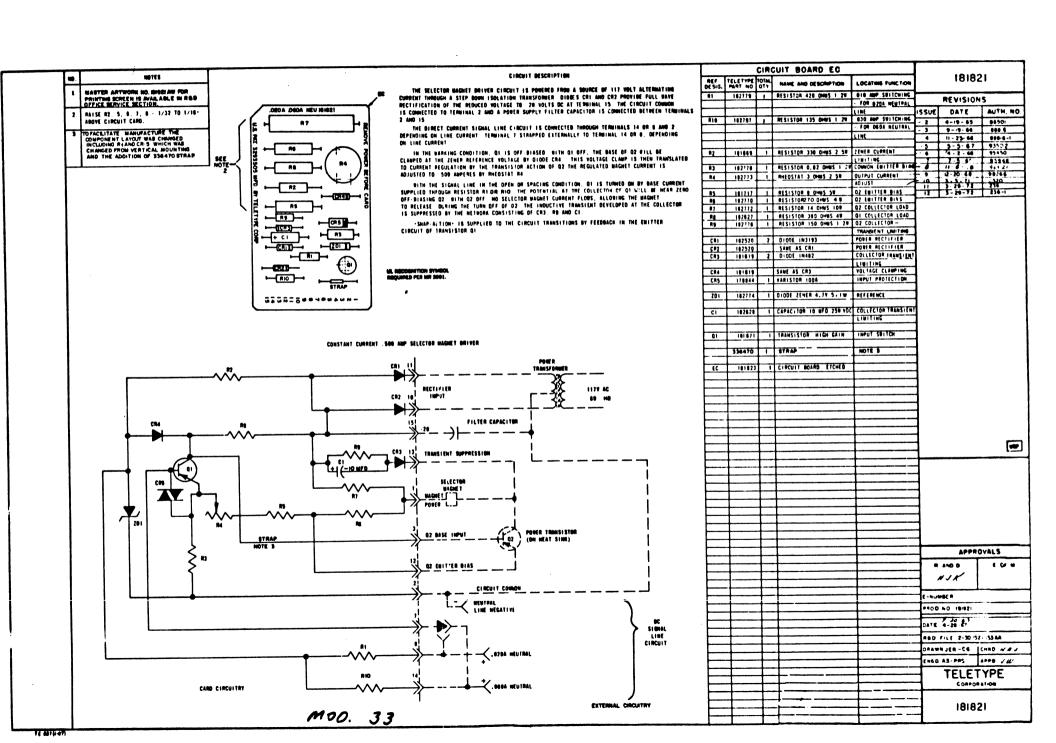


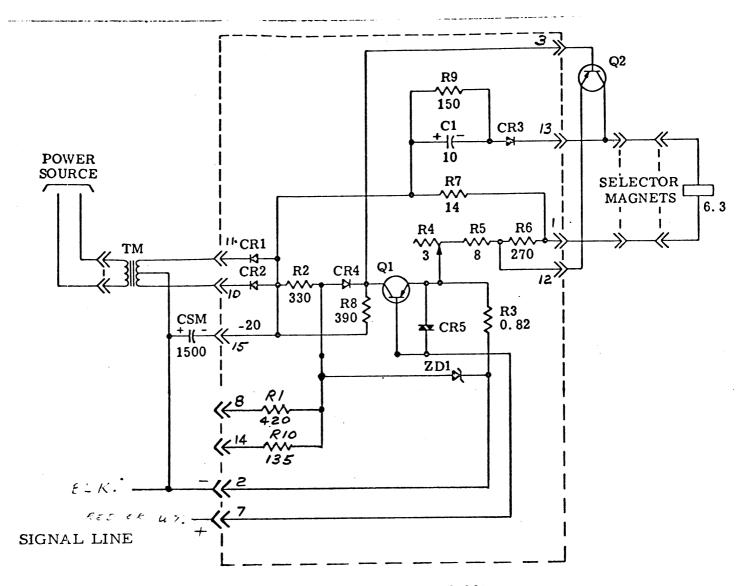












TELETYPE PART NO. 181821

For 20 MA line, pin 7 is tied to pin 8. For 60 MA line, pin 7 is tied to pin 14.

Transistor Ql On for space (open line)
Off for mark

(

Transistor Q2 Off for space (open line)
On for mark