

385

1094

862

1006

CAPACITORS (NOT ON OUT CARD ASSEM.) C1 (LOCAL LOOP SUPPLY) 3C3 C2 (SELECTUR HAG. DRIVER) 1E4 C3 (MOTOR START)

SMD CONN

J = FRAME SIDE, P = CABLE SIDE

TERM	FS/LOC
1	9C3
2	
3	9C3
4	193
5	186
6	156
7	183
8	103
9	103

CIRCUIT CARD ASSEMBLIES

ROR LOGIC

AUTOHATIC READER 183079

SELECTOR HAGNET

DRIVER CARD

181821

TERM FS/LOC

1 196

1E5

105

104

183

READER FEED SUPPLY SHEET & HANUAL REACER 163CB7 SHEET 8

181819

TERM

0

7

.

CONNECTORS NUMBERED

CONNECTOR SHELL

J = CABLE STDE P = FRAME STDE

J AND P	1	2	3	4	5	6	7	8
TERMINAL	F5/LOCATION							
1	203	Ι-	556	905	1135	203	283	2C
2	203	1 -	586	-	7C6	2C3	253	2C:
3	203	1105	-	985	706	2C3	2 63	20
4	2C3	1105		5C5	703	203	233	2C
5	2E3	403	·	5C5	7E4	203	283	20
6	2E3	1 4C3	603		736	203	283	2C
7	2E3	4E3	6E3		706	203	233	20
8	2E3	4B3	SE4	-	7E5	203	283	20
9	252	1 -		186	7E3	203	293	20
10	-	1 -	706	106	706	906	2E6	20
11	5C4	·-	604 7E6	6A3	786	986	256	5C
12	5C4	T -	-	6A4		525		5C
13	504	T -	705	-		605		50
14	-	1 -	7C5			695	-	
15		Τ.	704	T.		925	Γ.	

CONNECTORS, TITLED

10 11 104

12 1C6 1C5

14 193

READER POWER PACK COMM.

P - CABLE SIDE				
	FS/LOC			
TERM.	MAN. AND AUTO.	AUTO. ONLY		
1		703		
2		784		
3	2			
4		506		
5		706		
6	8C6			
7		6C6		
		783/1106		
9	805			
10		706		
11		703		
12	865			
13		785		
14	906			
15	986			

CONTACTS

ANSWERBACK	205
BREAK KEY	2E 6
FORMONG OUT	GE3
FUCTIONS	_
903	705
003	70
END	7E6
EOT	586
KEYBOARD	283
PAPER OUT	5C2
PARALLEL INTERFACE	203
READER FEED	885
READER (SIGNAL)	2C3
START (AUTO READER)	706
STOP (AUTO READER)	786
TAPE OUT (AUTO READER)	796
TIGHT TAPE (AUTO READER)	G B6
TIGHT TAPE, TAPE OUT;	
STOR /MANUAL READERS	G.A.

RECEPTACLE CONVENGENCE OUTLET 9C1

DIODES (NOT ON CKT. CARD ASSEMBLY) CRI

DISTRIBUTOR

FI (MAIN)

F2 (SHD)

COVERNOR

F3 (48VAC)

F4 (MOTOR)

F5 (READER)

FUSES

CORD

PONER

RELAYS HODE COTIL 9C3 CONTACTS:

FORM TERMS 1.2.3 445 4£5 C 4.5.6 405 7.8.9 4C5 С 10.11.12 4£4 13.14 15.16 4C3 8 17.18 404

10C4 NOTOR START TOC (P/O 183079 CKT. CARD ASSEM.)

> 784 COL CONTACTS: 7C3 706 606

RESISTORS (NOT ON CKT.CARD ASSEN.)

1007

806

5C2

MAGNETS 6A3 806

ANSRERBACK TRIP DISTRIBUTOR TRIP READER FEED SELECTOR

SKITCH LOW PAPER HODE

RE OF ROR PHR.PACK

RL

HOTOR SYNCHRONOUS 1004 SERIES GOVERNED 1006

NETWURKS 71 202 **Z**2 683 10C7

TERMINAL STRIP X (CUSTOMER INTERFACE)

902 TERMINAL 1 982 TERMINAL 2 4C3 TERMINAL 3 TERMINAL 4 4C3 404 TERMINAL 5 462 TERMINAL 6 42 TERMINAL ? 1C3 TERMINAL 8 TERMINAL 9 103

THYRISTOR (TRIAC) (NOT ON OXT CARD ASSEM.)

1007

TRANSISTUR (NOT ON CKT. CARD ASSEM-)

02 OF SHD ASSEMBLY 103

TIMER

ELAPSED TIME INDICATOR 9C4

103 T1 940 1102 TZ 48V AC

TERMINAL FIELD

TERMIDIAL 1103 1163

> MODEL 33 RO, KSR AND ASR SETS 3300. 3310, 3320 SER:ES

TELETYPE HEOSD-CI

ISSUE

NOTES

CIRCUIT NOTES

101. FUSING

DESIGNATION	FUNCTIONAL TITLS	FUSE AMP.	POTENTIAL AT FUSE	PHYSICAL LOCATION
Fl	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 810	•	TYPDG UNIT
F5 .	, READER FUSE	3/4A SL-BL	•	READER POWER PACK AT FRONT OF CALL CONTROL UNIT

VOLTAGE SYMBOL YOLTAGE RANCE

115V AC 103VAC TO 127VAC

FREQUENCY RANGE

FREQUENCY

60Hz SETS ± 3/4% 50Hz SETS ± 3/4%

50-60Hz SETS 48 TO 62Hz

102. OPTIONS

	OPTION	FS LOC	ACTUAL LOC	FACTORY PROVÍDED
×	20MA SIGNAL INPUT	1C3. 385	9336MD.	
_	SOMA SIGNAL INPUT	103. 305	1A5, 203	•
×	HALF DUPLEX SIGNALING	4C4, 4E4	9335ND,	•
~	FULL DUPLEX SIGNALING	7	2£3	
	EVEN PARITY NEYBOARD	ì	1	•
×	LEVEL 8 ALWAYS MARK	283 AND	9334MD	
1	LEVEL 8 ALMAYS SPACE	9334MD	1	

*SELECT ONLY ONE OPTION FROM THIS GROUP

EQUIPMENT NOTES

201. THIS DRAWING SHOWS ALL WIRTING 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 COORDINATES LOCATION LEGEND

302. () TERMINAL DESIGNATIONS ENCLOSED IN PARENTHESE ARE FOR REFERENCE AND ARE NOT MARKED ON THE COMPONENT.

303: ALL RESISTANCE VALUES IN CHAS AND CAFACITANCE VALUES IN MICROFARADS ULLESS OTHERMICE SPECIFICD.

304. SYMBOLOGY

MORNALLY OPEN CONTACT

NORNALLY CLOSED CONTACT

TRANSFER CONTACT

CIRCLE INDICATES PRESENCE OF REMOVABLE CONNECTION(S) IN THAT NODE OTHER THAN A MILITITERMINAL CONNECTOR.

EXAMPLE A: REMOVABLE RELATIONSHIP SHORN.

EXAMPLE B: REMOVABLE RELATIONSHIP NOT SHORN.

CIRCUITRY RITHIN SINGLE SOLID

LINE ENGLOSIZE IS SHOWN FOR REFERENCE ONLY. IT IS SHOWN

BREAK 9334 WD A DOUBLE SOLID LINE ENCLOSURE
MEANS THE DETAILED INFORMATION
IS FOUND IN A DIFFERENT SD OR NO.

IN DETAIL ELSEWHERE IN THE SAME

I B I B Z I SMD

DASHED LINE BOUNDARIES INDICATE
A RELATION BETWEEN OR COMMONALTY OF
THE ITEMS WITHEN. LOOK FOR
HAME OR NUMBER WITHEN THE
BOUNDARY.

4

CIRCUIT COMON RETURN

FRAME OR CHASSIS GROUND

⊕ ⊕

LETTER OR TITLE IN CIRCLE OR CYAL INDICATES PRESENCE OF WIRING OPTION WHICH THE CHOICE CAN ARRAYSE TO SUIT HIS CHOICE OR REQUIREMENT WITHIN THE POSSIBILITIES SHOWN.

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 MOTE ENTERED THE PRODUCT.

MODEL 33 RO, MSR AND ASR SETS 3300, 3310, 5320 DERIES

11503D-DI

ISSUE

NOTES GENERAL INFORMATION

COILS

NUMBER 272 M 279 M 300 M FUNCTION ANSKER BACK TRIP REACER TRIP REACER TRIP VOLTAGE RATING 48 VAC ±10%, 50/60 Hz 48 VAC ±10%, 50/60 Hz 115 VAC ±10%, 50/60 Hz 24 VCC ±10% 24 VCC ±10% 780 0 *10 x COTL RESISTANCE 110 g ±10x 110 Q ±10%

RELAYS

NUMBER 178306 FUNCTION MCTOR CONTROL VOLTAGE RATING 16-28 VCC CONTACT RATING 1/2 HP 125-250 VAC, 8 AMPS @ 250 VAC COIL RESISTANCE 440 g ±10% PICK UP TIME 25 ms HAX. RELEASE TIDE 16 ms MAX. CONTACT BOUNCE

5-7 ms MAX.

SWITCHES

NUMBER 182037 183445 181441 155954 FUNCTION FUNCTIONS DC1, DC3, ENQ & ECT PAPER ALARY-SPROCKET FEED PAPER ALARM-FRICTION FEED 186848 LOW TAPE HOC. KIT VOLTAGE RATING 115 VAC 115 VAC 120-240 VAC 125-250 VAC 115 VCC 10-45 VOC 30 VOC 30 VCC HAXDIUM CONTACT CURRENT 100 MA (INC & RES) AC 2 AHPS AC 5 AMPS AC 5 AMPS (RES) AC 100 MA (INC & RES) DC N/SPARK PRCT. 15 MA (INC) 300 MA (RES) DC 3 MPS (IND) 4 MPS (RES) DC 3 MPS (IND) 4 MPS (RES) DC TIME FROM END OF START PULSE TO CONTACT OPERATION 140-150 es DURATION OF BOUNCE 3 86 CURATION OF OPERATION INCLUDING BOUNCE 35-40 PS

MOTORS

NUMBER 181870 182241 182267 183991 TYPE 33 MP, SINGLE PHASE, SYK. 33 MP, STAGLE PHASE, SW. 35 MP, SINGLE PHASE, SYN 1/12 HP, SINGLE PHASE SERIES DESIGNED SPEED 3500 RPM 3600 RPM 3000RPH 3600 FPM WITH SPEED REGULATOR RATEC LOAD 9 0Z. IN. 9 OZ. DX. 10.8 OZ. IN. 9 GZ. IN. VOLTAGE RATING 115 VAC ±10%, 60 CYCLE 115 VAC ±10%, 50 CYCLE 115 VAC ±10%, 60 CYCLE 115 VAC :10%, 50/60 CYCLE START CURRENT 7 AMPS 11.5 APS 10.7 MPS 2.5 AMPS RUN-CURRENT-PATED LOAD 2 MPS 1.6 MPS 1.7 MPS .9 AMPS TIME TO REACH SYND-ROYOUS NITHIN 1 SECOND MITTHIDN 1 SECOND RETIKEN 1 SECOND KITHUN 1 SECOND SPEEL -RATEL VOLTAGE :104 POWER FACTOR-RATED LOAD .4 NONDKAL .4 NO-DVE. .4 NOKONAL .6 NONDNAL LAG ANGLE-FATED LCAD 6 DEGREES NOMENAL & DEGREES NOMENAL 8 DEGREES NONDWAL MINIMUM INTERVAL BETWEEN REPEATED MOTOR STARTS 20 SECONOS MIN. 20 SECCIACS HEN. 20 SECONCS KON. 20 SECONES HON.

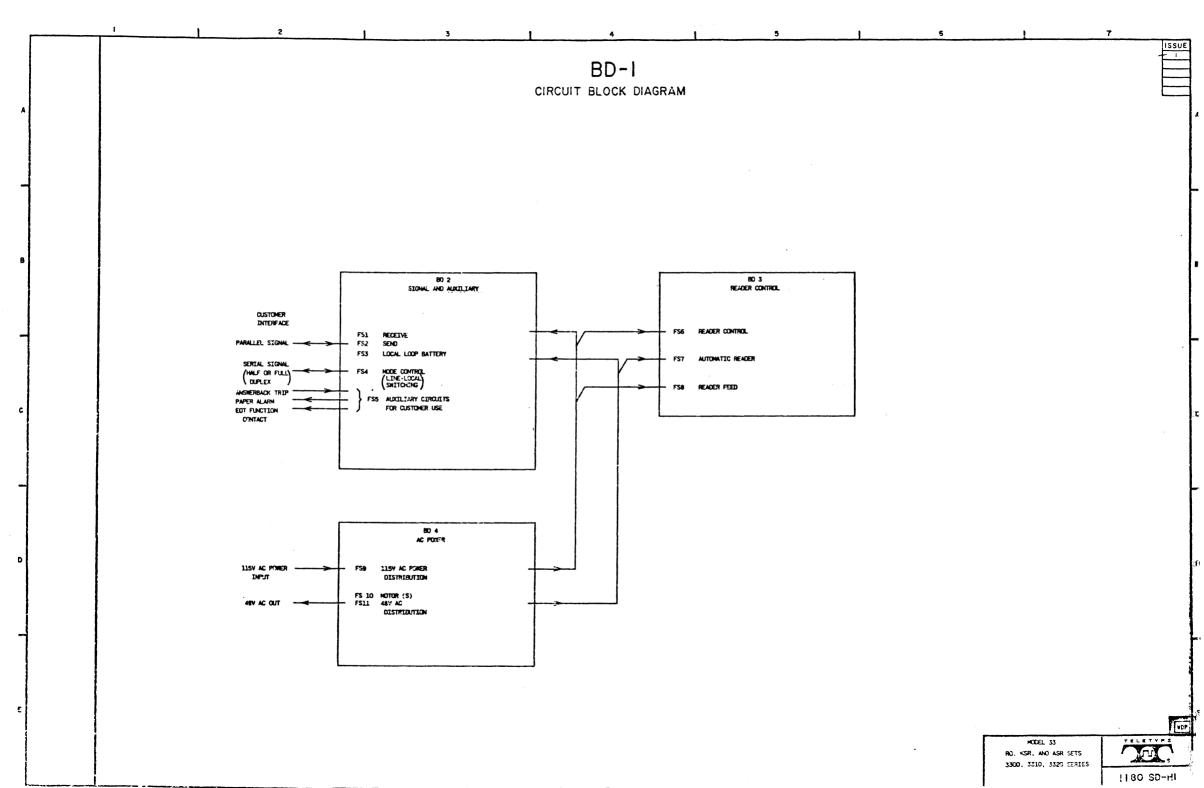


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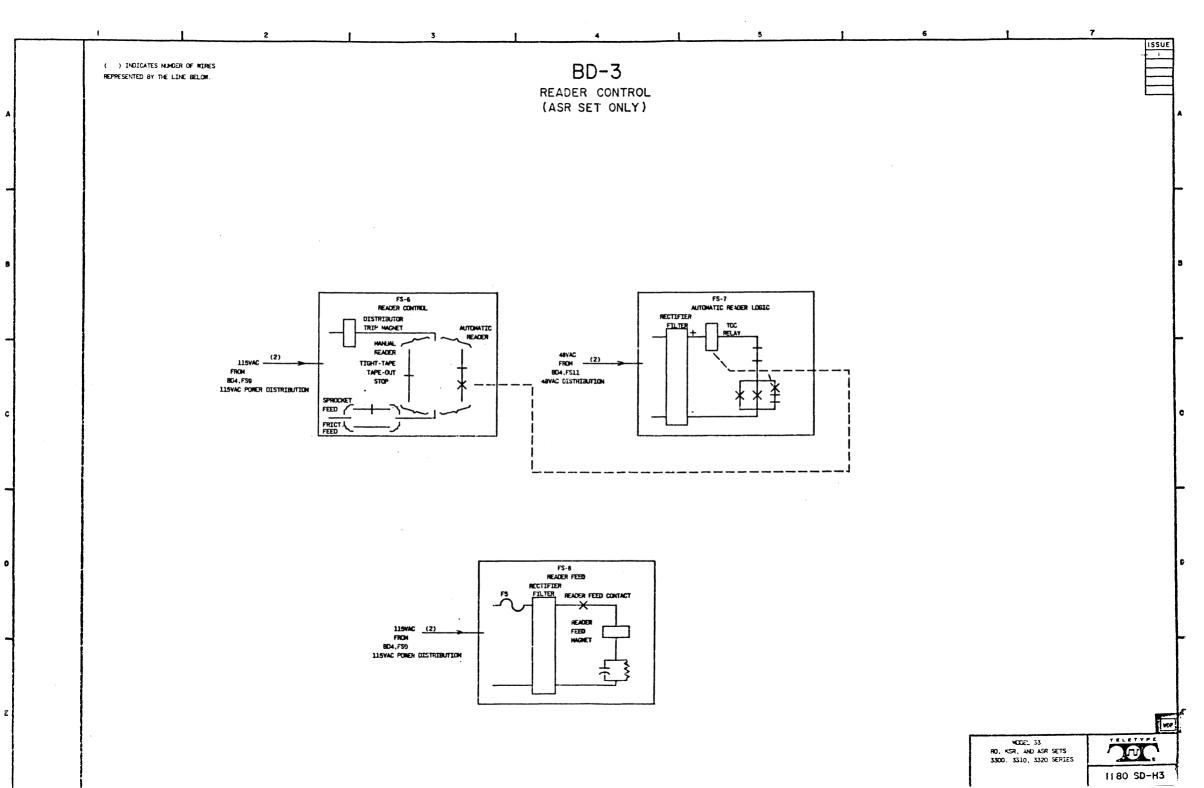
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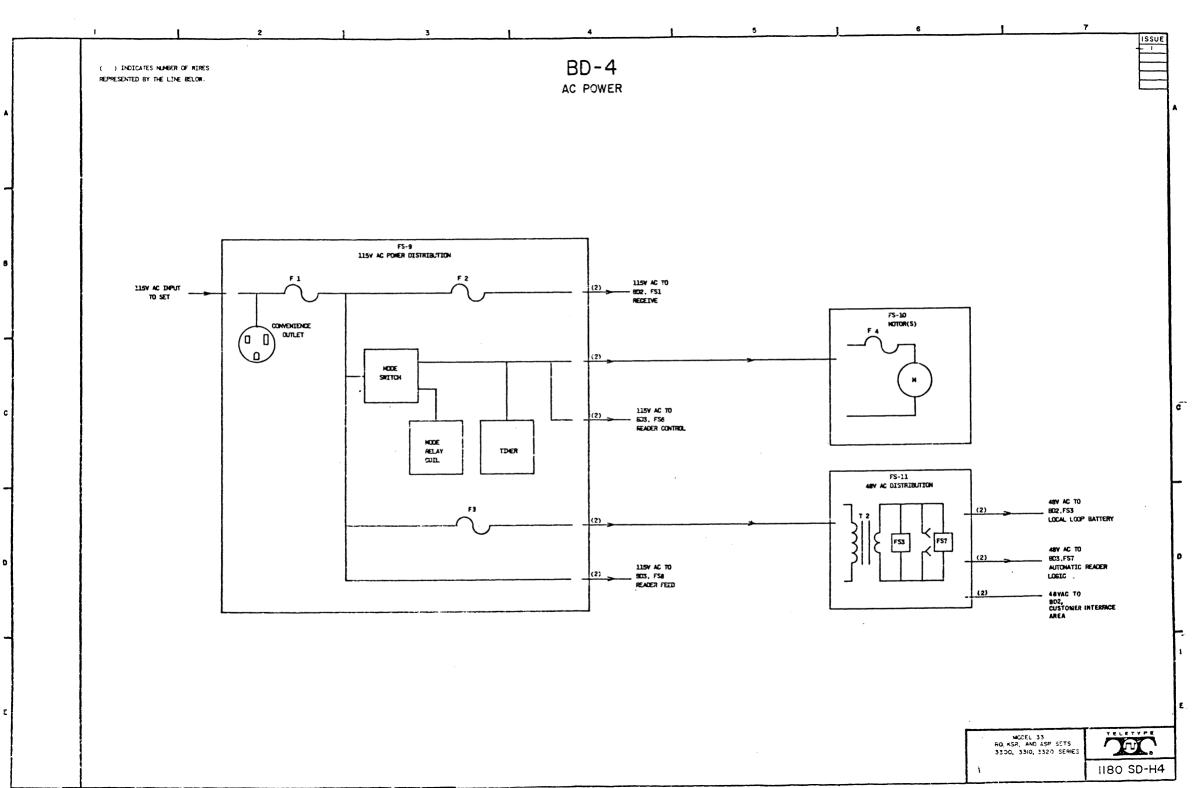
ISSUE

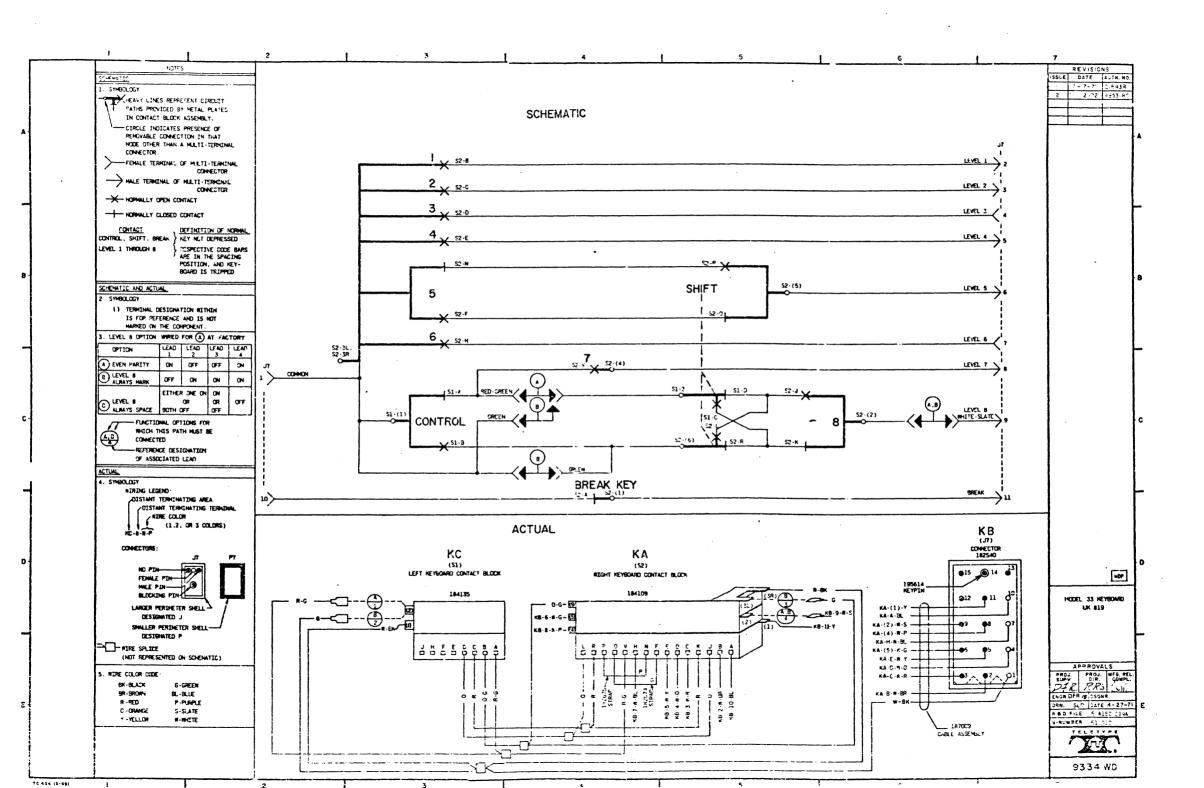
MODEL 33 PO, KSP AND ASR SETS 3300, 3310, 3320 SERIES

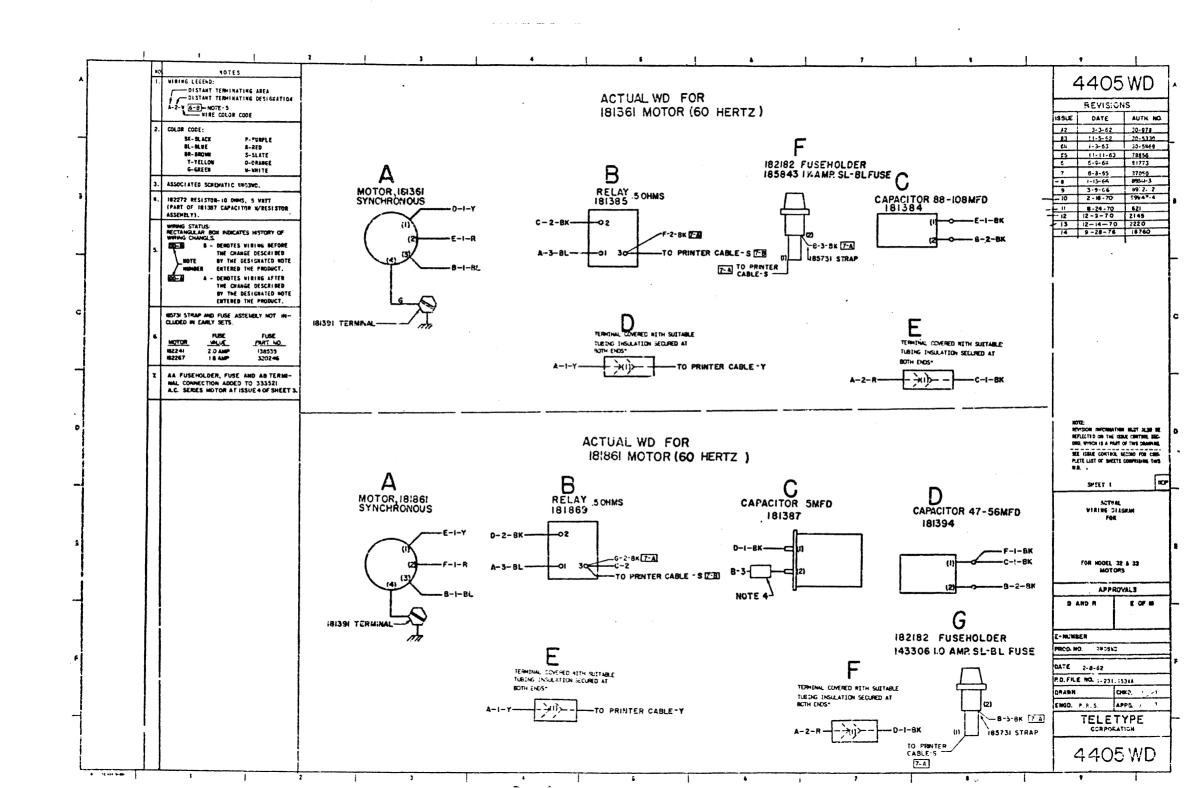


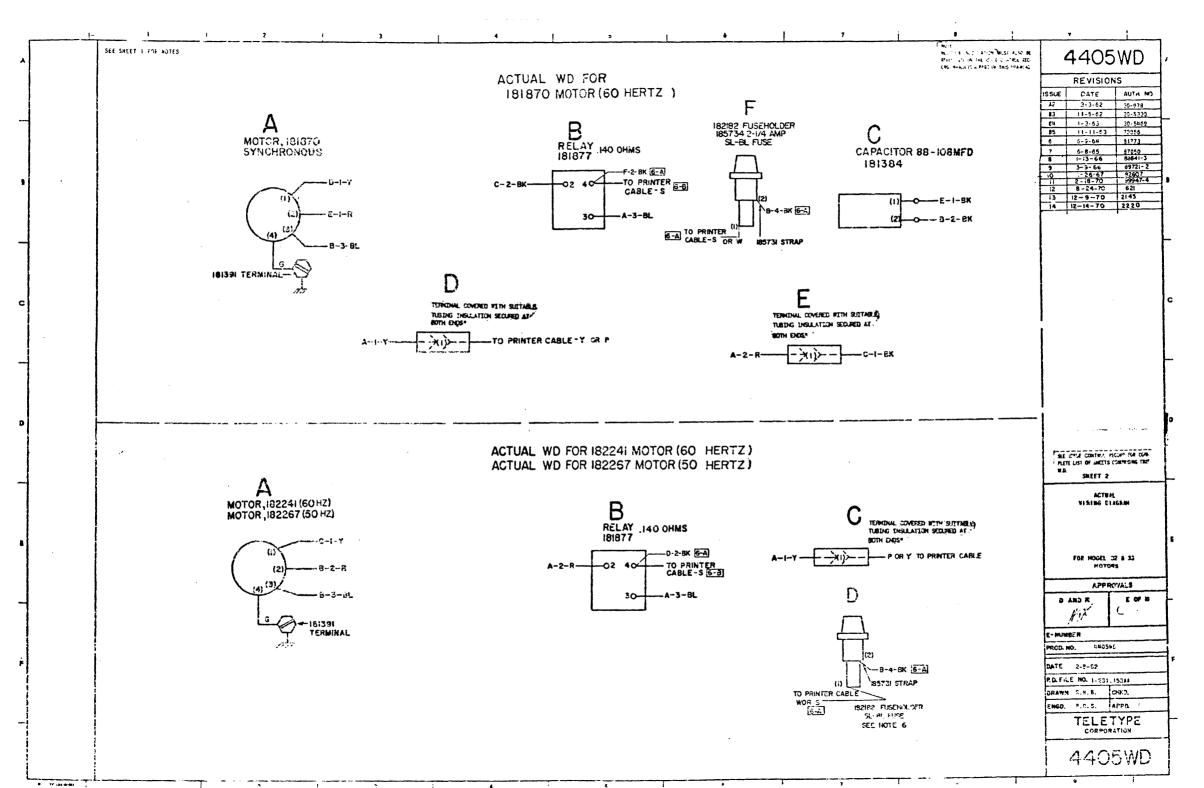
ISSUE BD-2 () INCICATES NUMBER OF NIRES REPRESENTED BY THE LINE BELOW. SIGNAL AND AUXILIARY CLISTOMER 115V AC FS-1 FS-4 FROM (2) BO4.FS9 (2) INTERFACE MODE CONTROL RECEIVE SELECTOR OPTION: /LINE HODE \ SELECTOR MAGNET DRIVER 115V AC POMER LOCAL HODE DISTRIBUTION (2) OR (4) SERIAL SIGNAL (HALF OR FULL OUPLEX) 60HA. FS-2 SENO MBO, HOR, A/R (EXTERNAL) OPTION: (2) HALF OR FULL DUPLEX (9) LOCAL LOOP CURRENT SUPPLY 2044 +_-< OPTION 48V AC (2) 65V DC FROM BO4,FS11 48V AC DISTRIBUTION PARALLEL SIGNAL ---FS-5 AUXILIARY CIRCUITS FOR CUSTOMER USE ANSWERFACK TRUP AMENEPBACK MGNET TRIP HAGNET (3) PAPER ALARM PAPER ALARM EOT FUNCTION EDT FUNCTION (2) CONTACT ____ CONTACT # 46V AC FROM 804,FSI1 43V AC DISTRIBUTION 48V AC FOR CUSTOMER USE (2) MODEL 33 RO, KSR, AND ASR SETS 3300, 3310, 3320 SERIES 1180 SD-H2

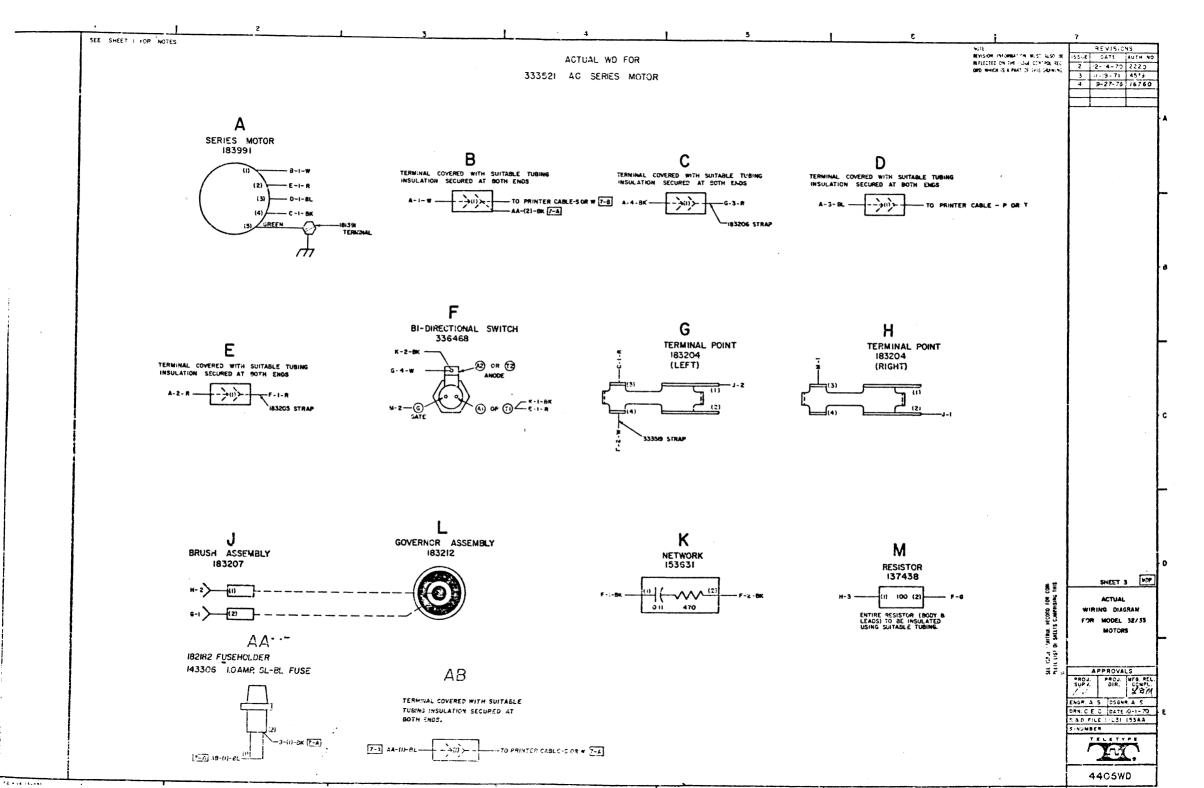


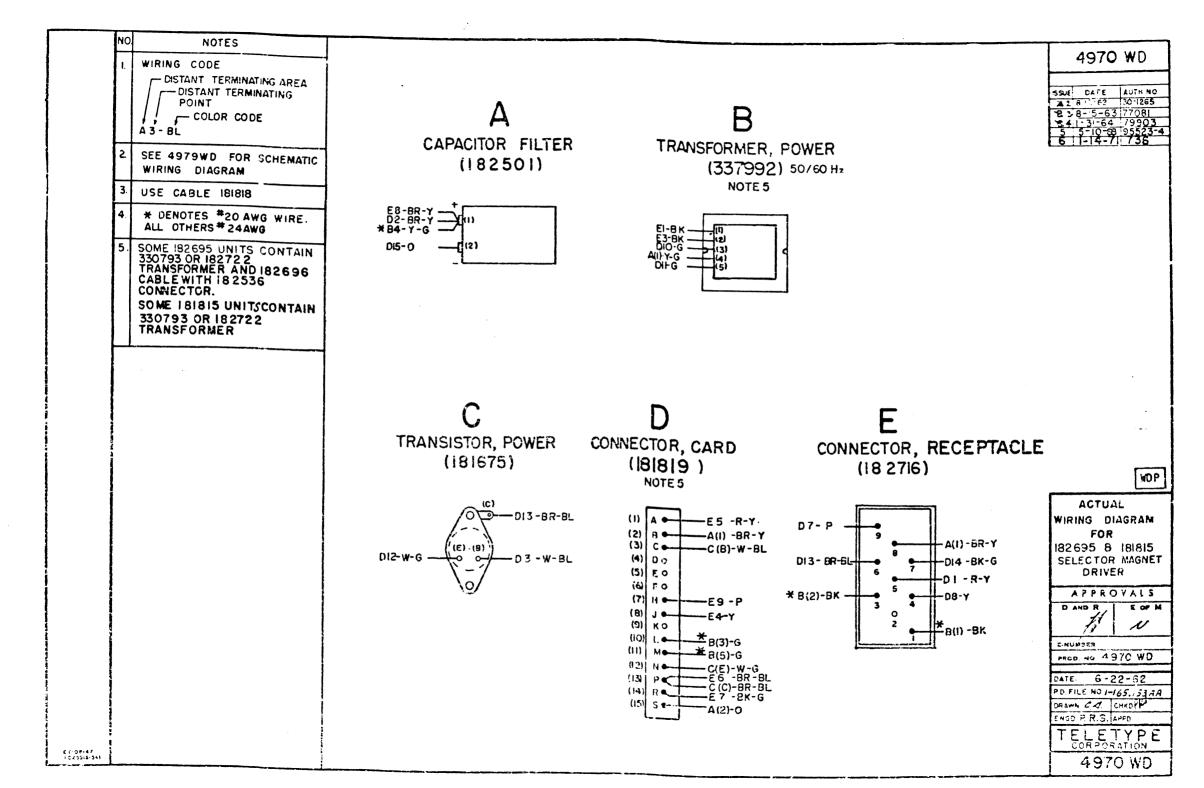


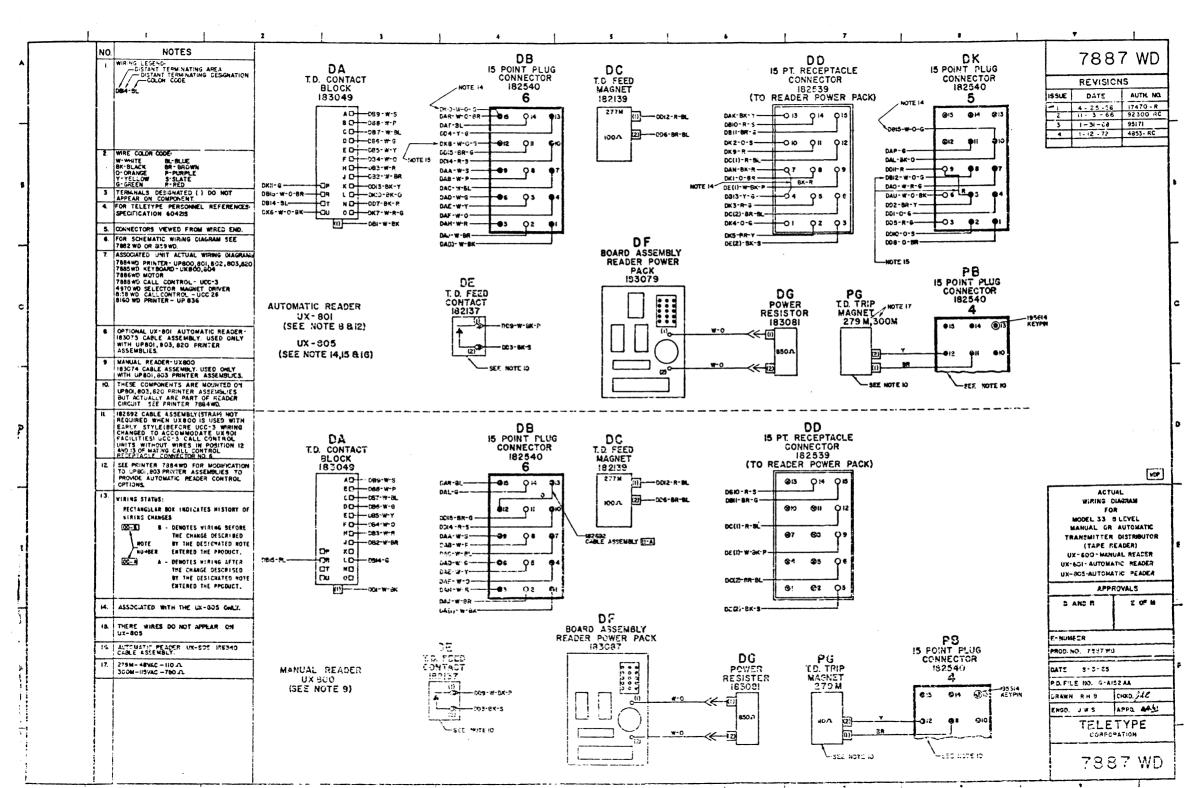


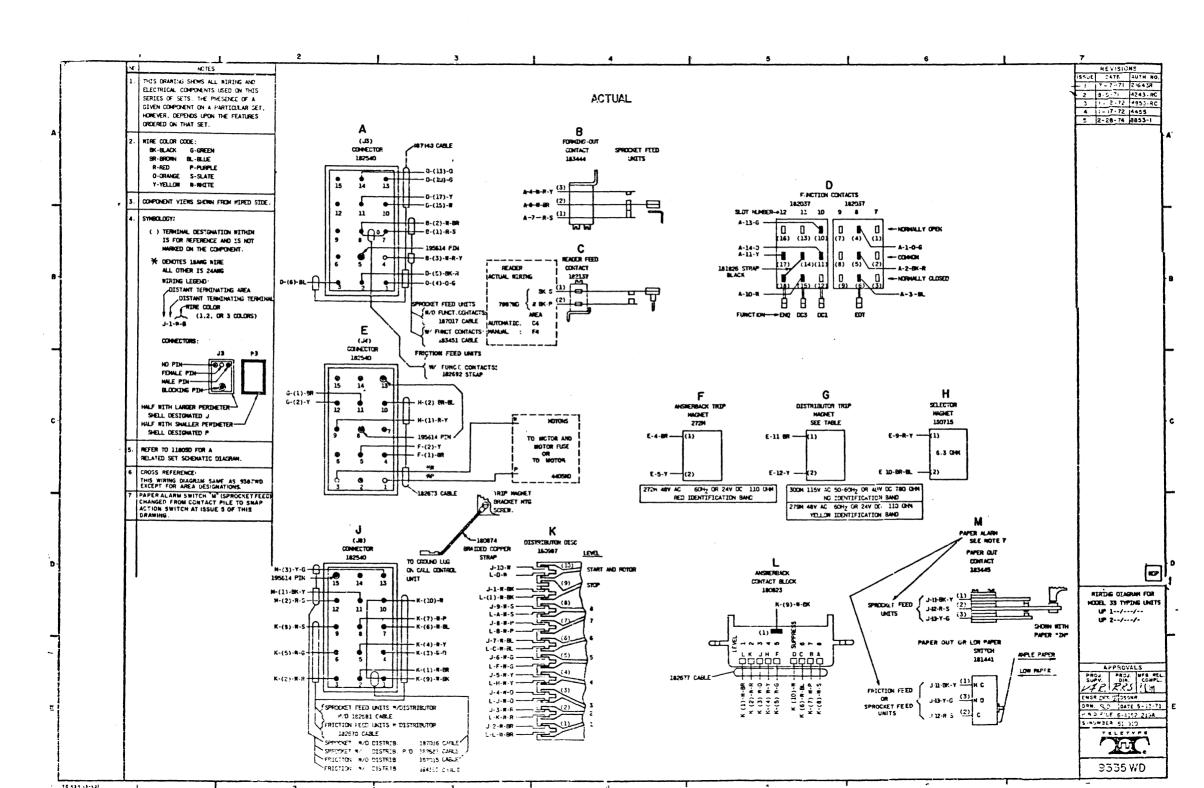


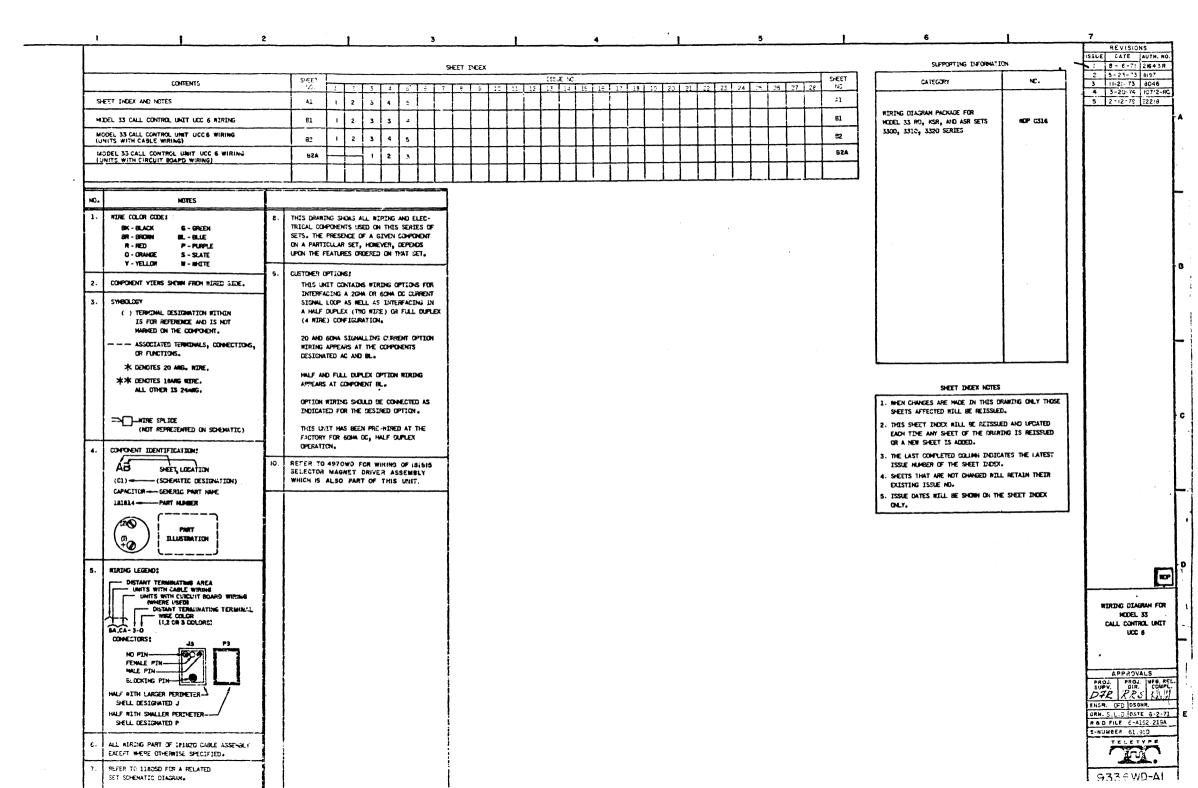


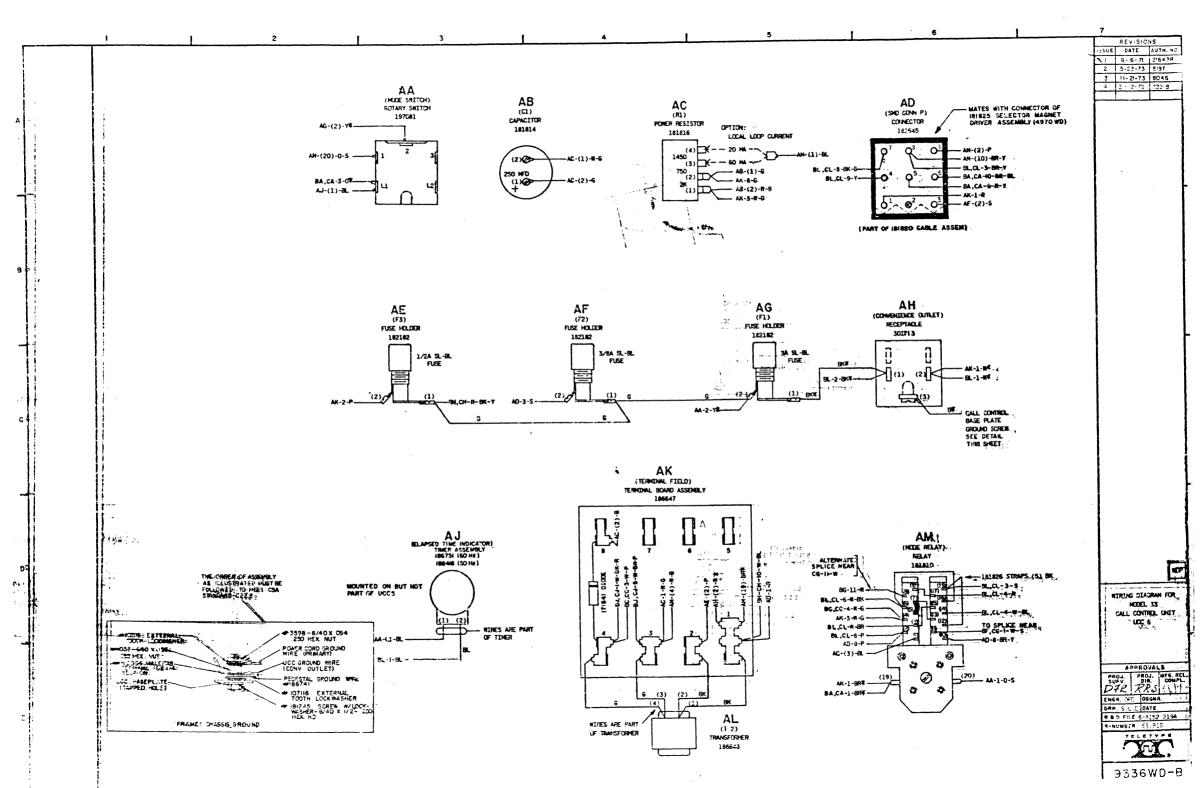


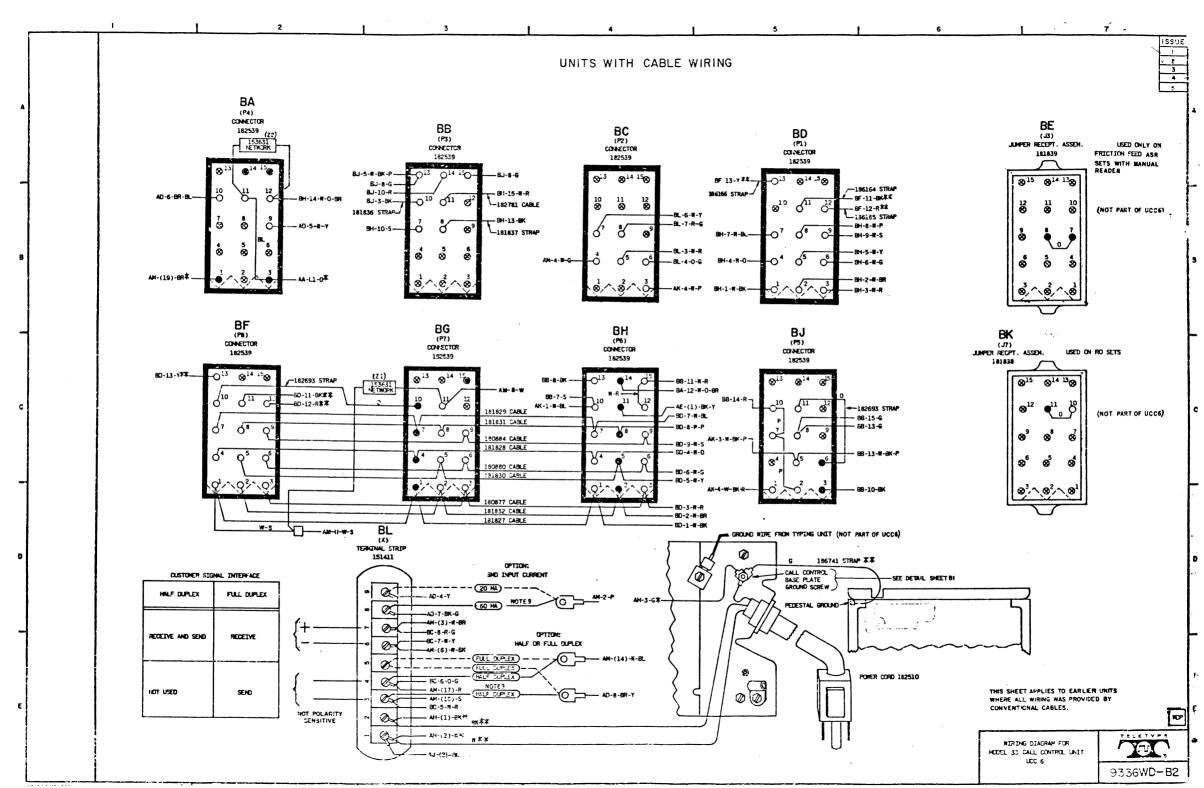


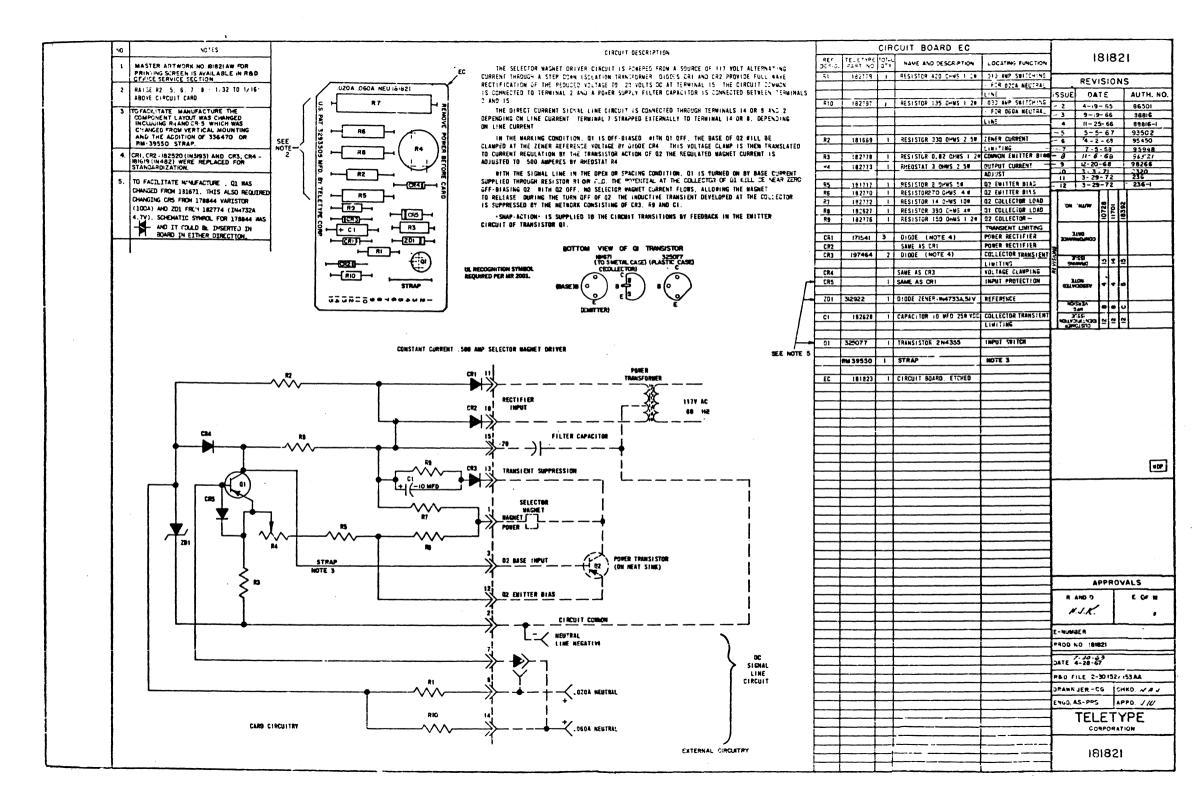


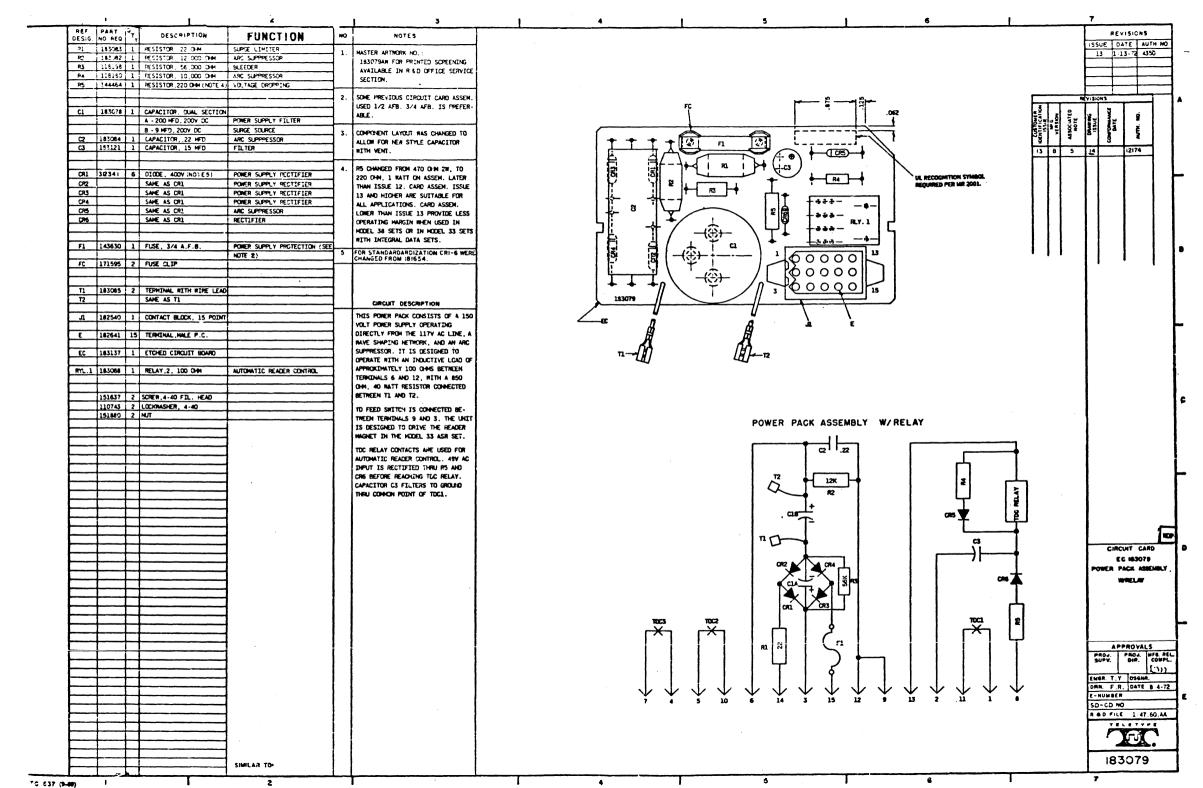


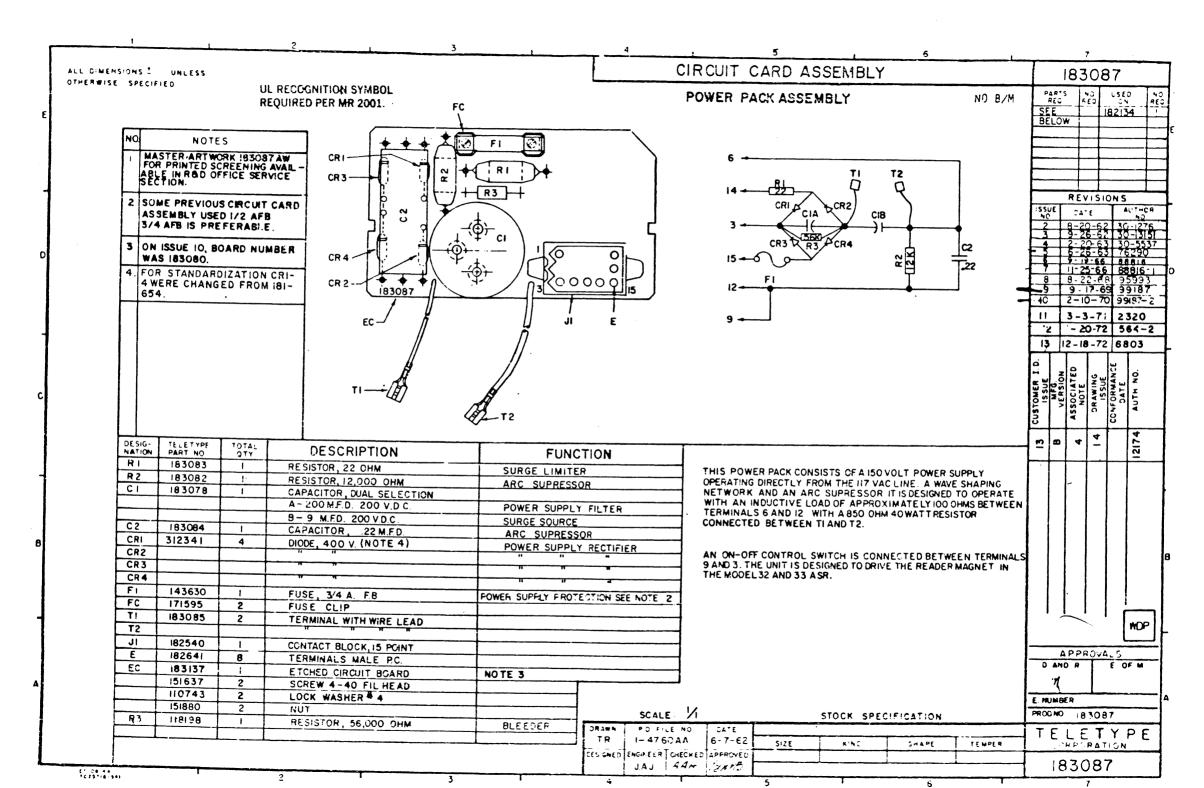


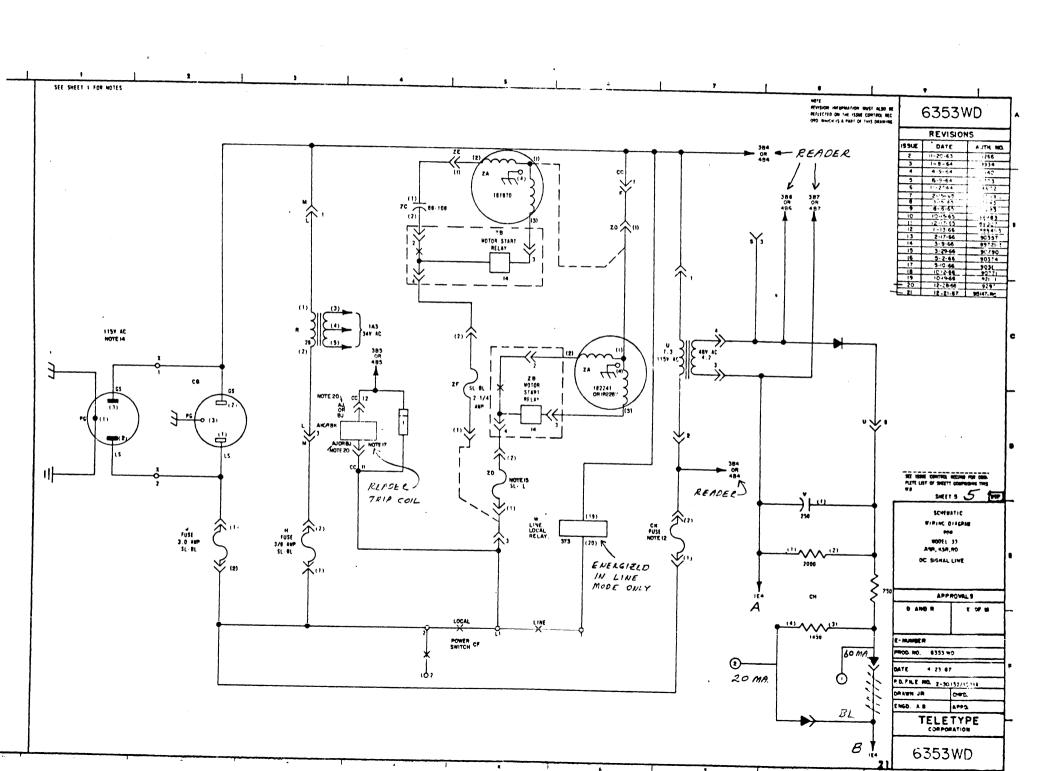


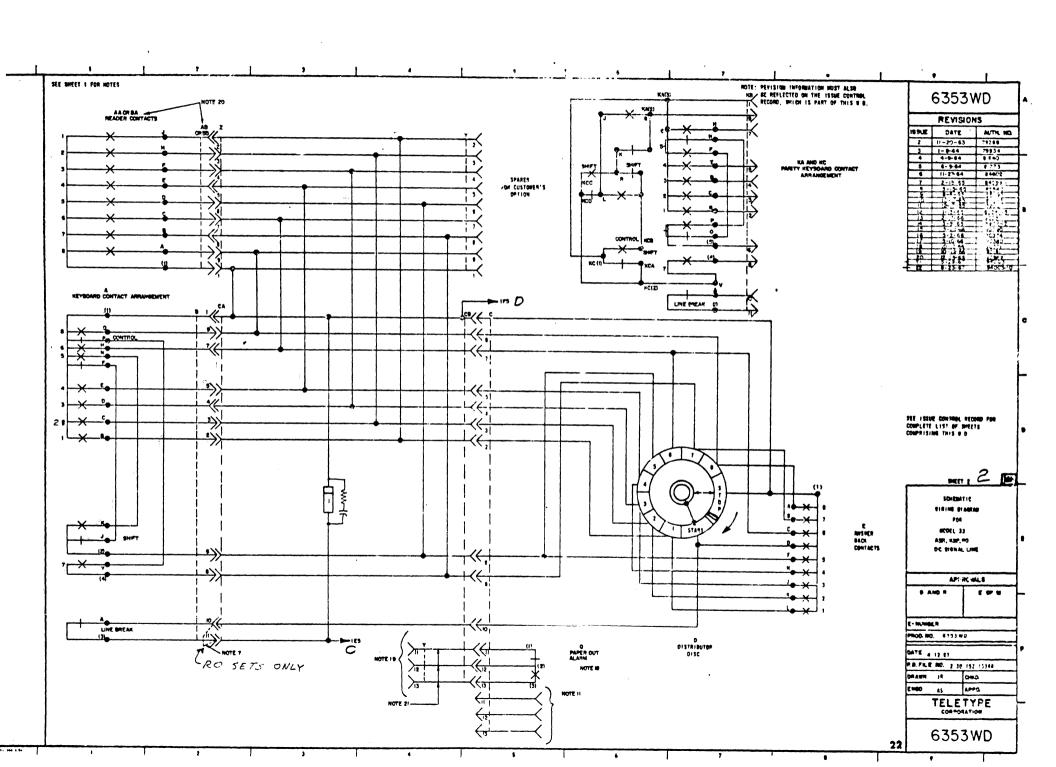


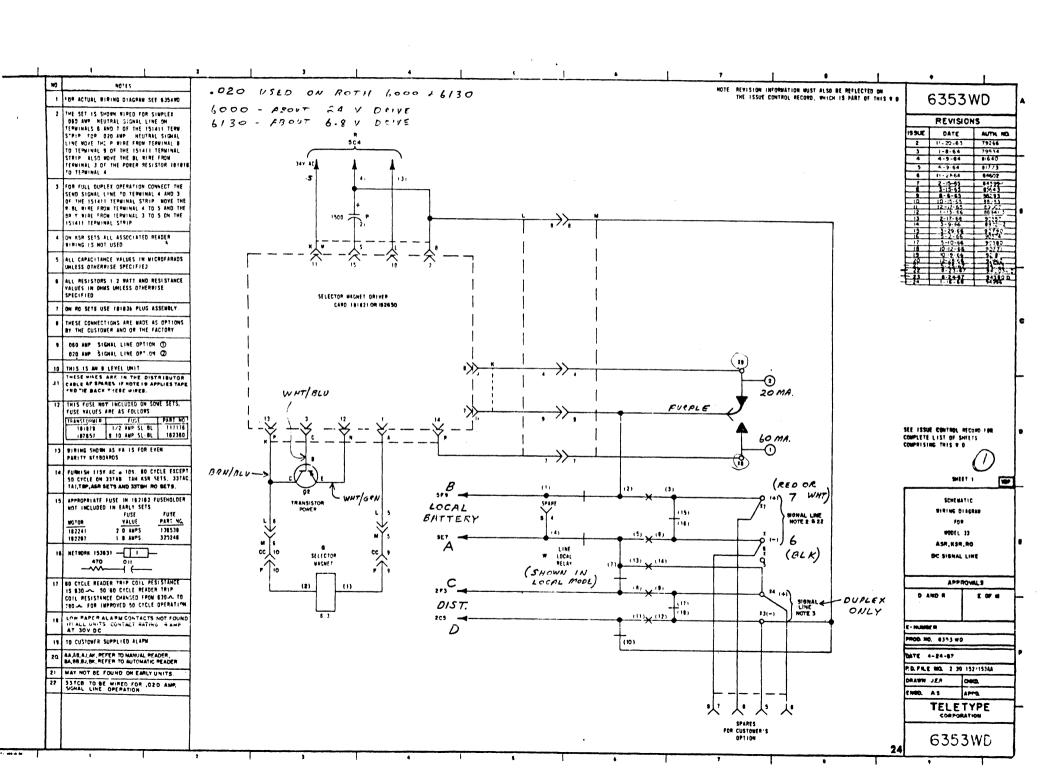


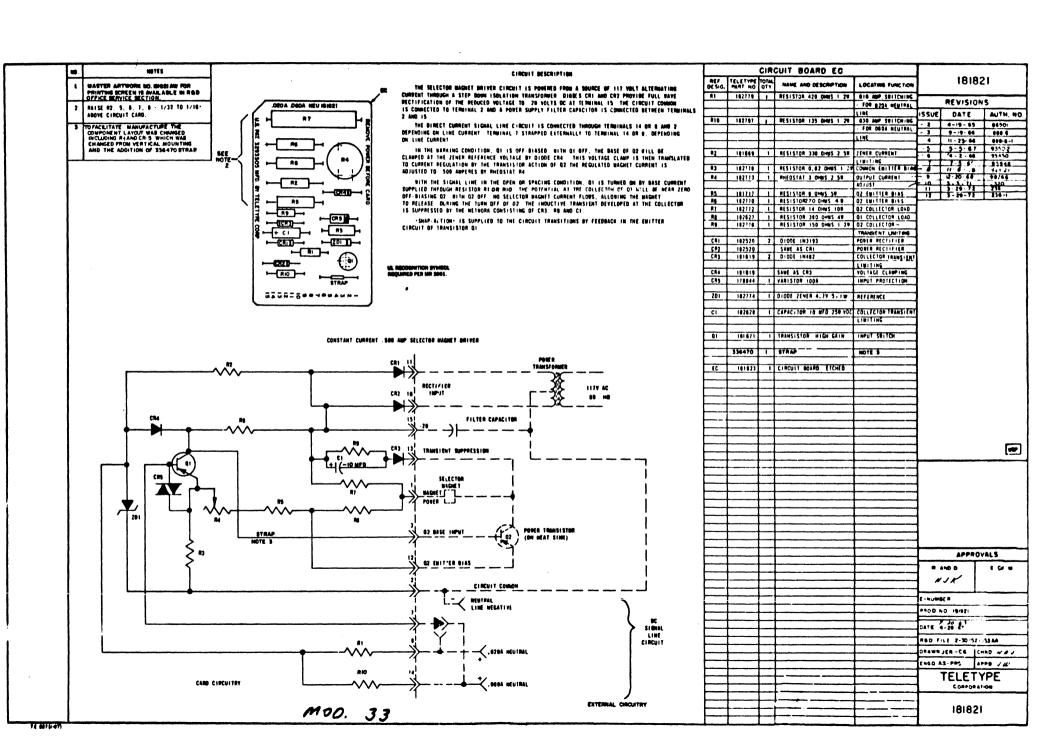


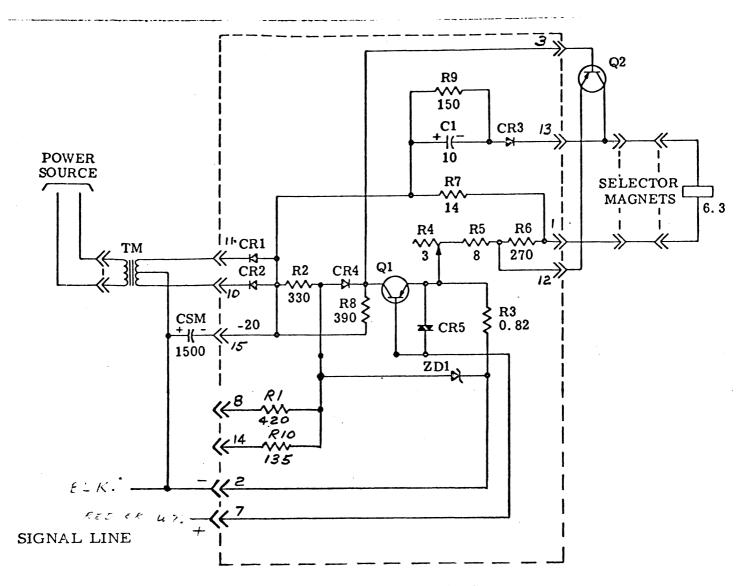












TELETYPE PART NO. 181821

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