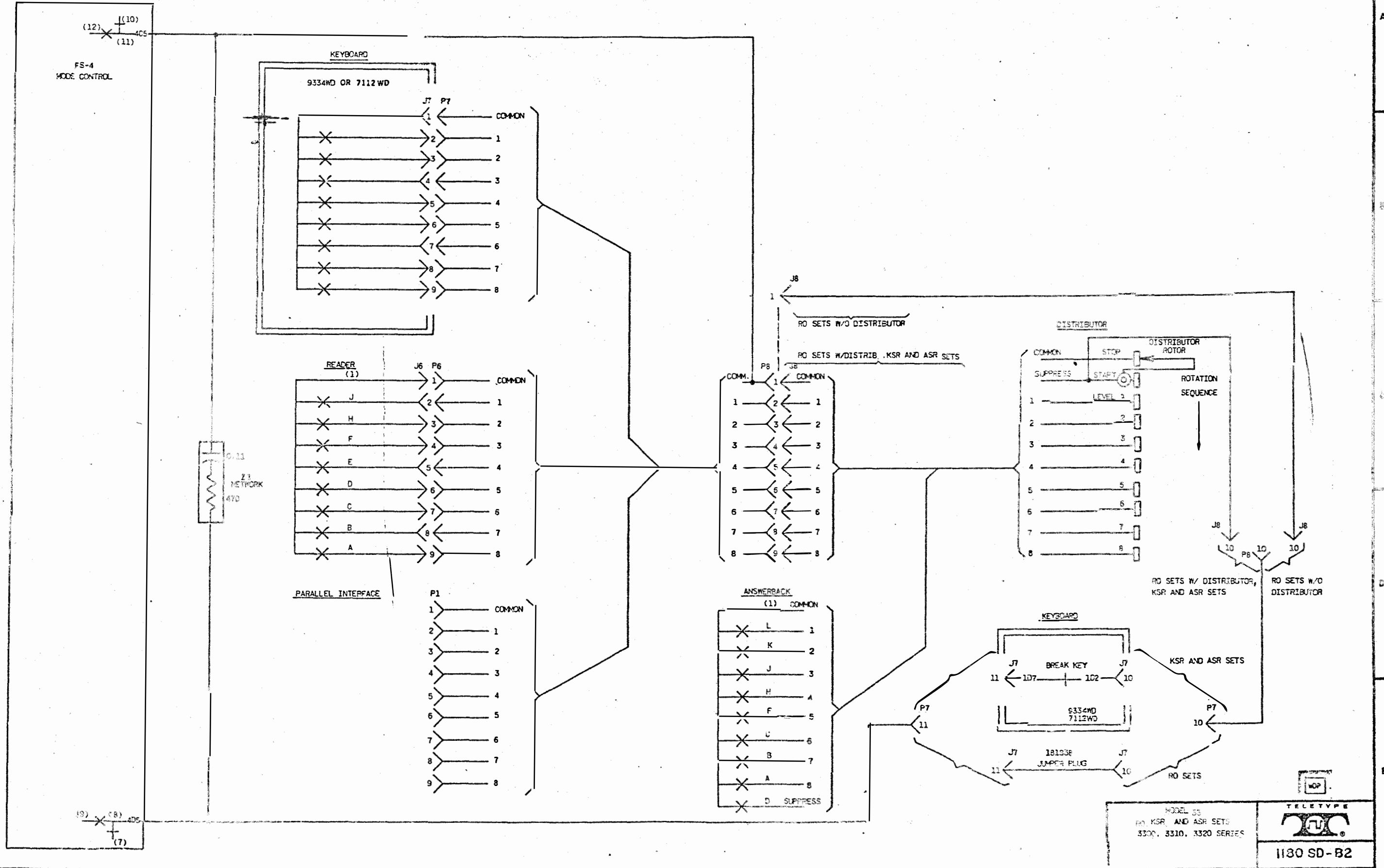


FS-2 SEND CIRCUIT

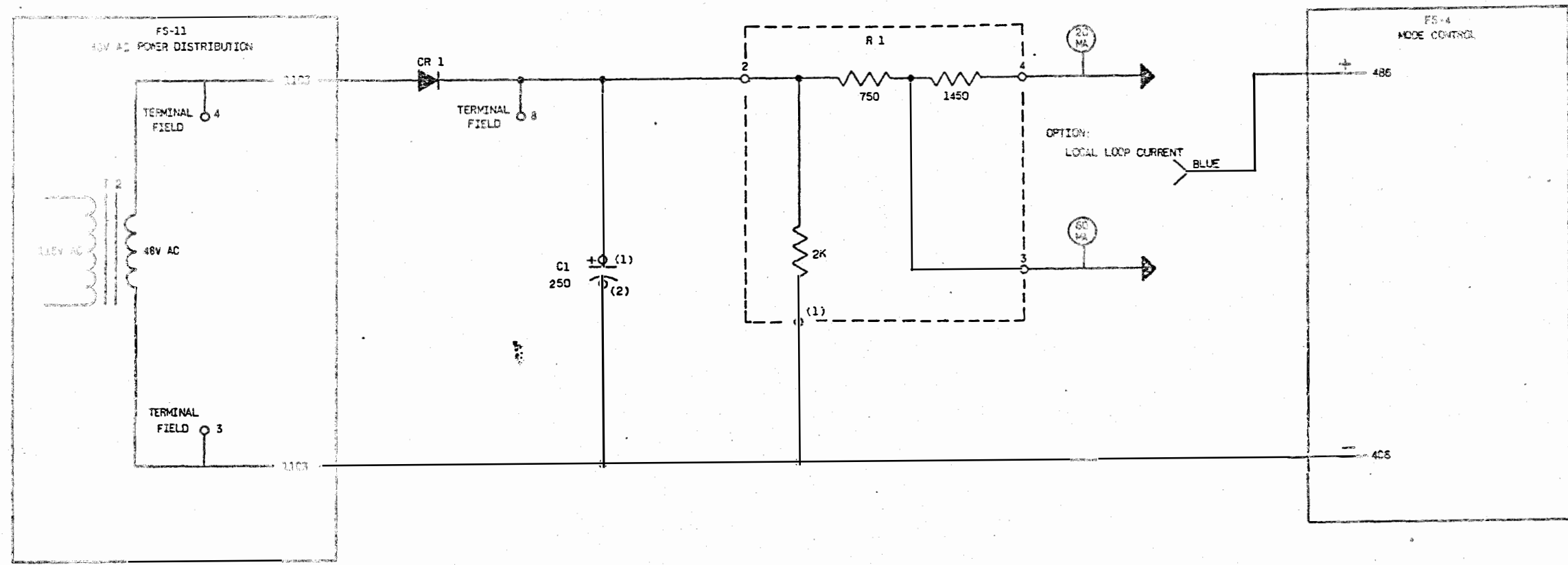


MODEL 33
RO, KSR, AND ASR SETS
3300, 3310, 3320 SERIES



FS-3

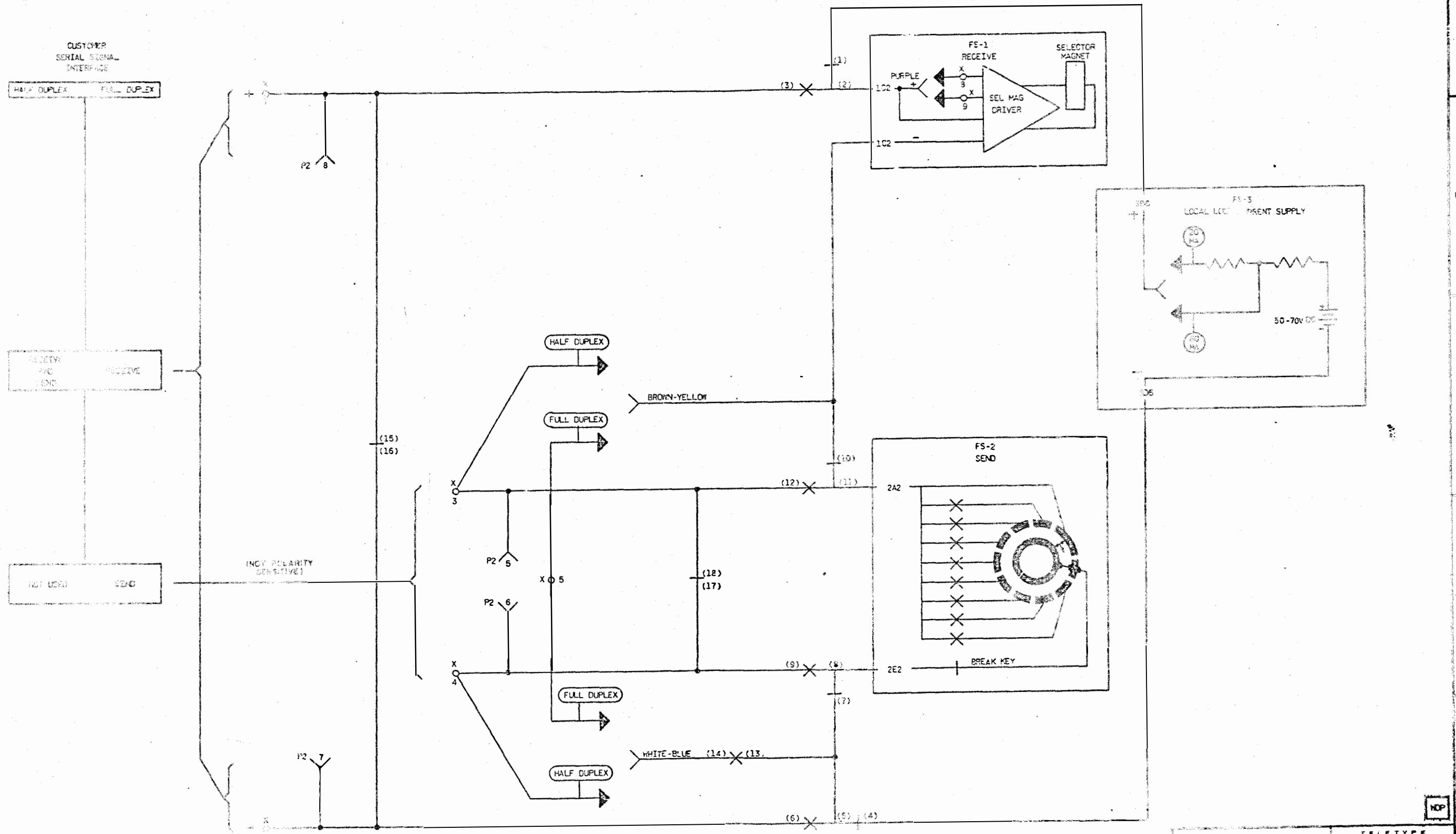
LOCAL LOOP CURRENT SUPPLY



FS-4 MODE CONTROL

SHEET NOTES
1. ALL RELAY CONTACTS ON THIS SHEET ARE PART OF THE MODE CONTROL RELAY COIL IS SHOWN ON 9C3.

ISSUE
1
2



MODEL 53
RD, RDR, AND ASR SETS
3200, 3710, 3720 SERIES

TELETYPE
HQP

1180 50-B4

FS-5

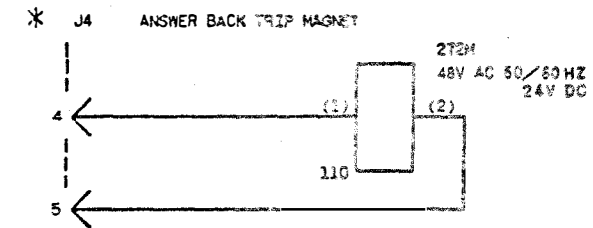
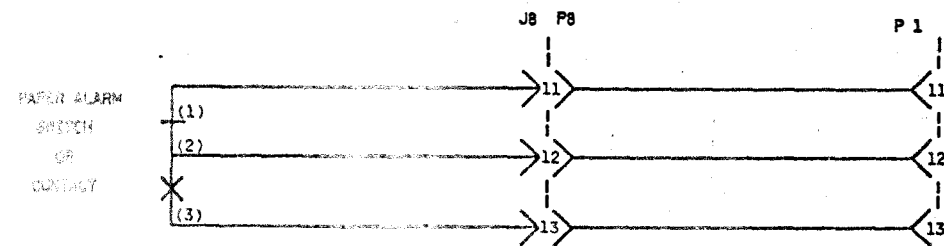
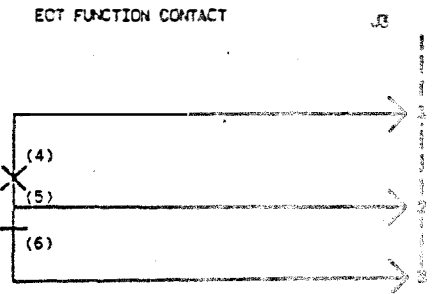
AUXILIARY CIRCUITS (FOR CUSTOMER USE)

ISSUE
1
2

PAPER ALARM

	TITLE	CONDITION SIGNALLED	TYPE
FUNCTION:	LDN PAPER SWITCH	APPROX. 25 FT. OF PAPER LEFT	SNAP ACTION SWITCH
CONTACT:	PAPER OUT CONTACT	END OF LAST FORM	CONTACT PILE

	LOCATION	CONTACT RATING
FUNCTION:	IN FRONT OF MOTOR PAN	
CONTACT:	NEAR LEFT END OF PLATEN	

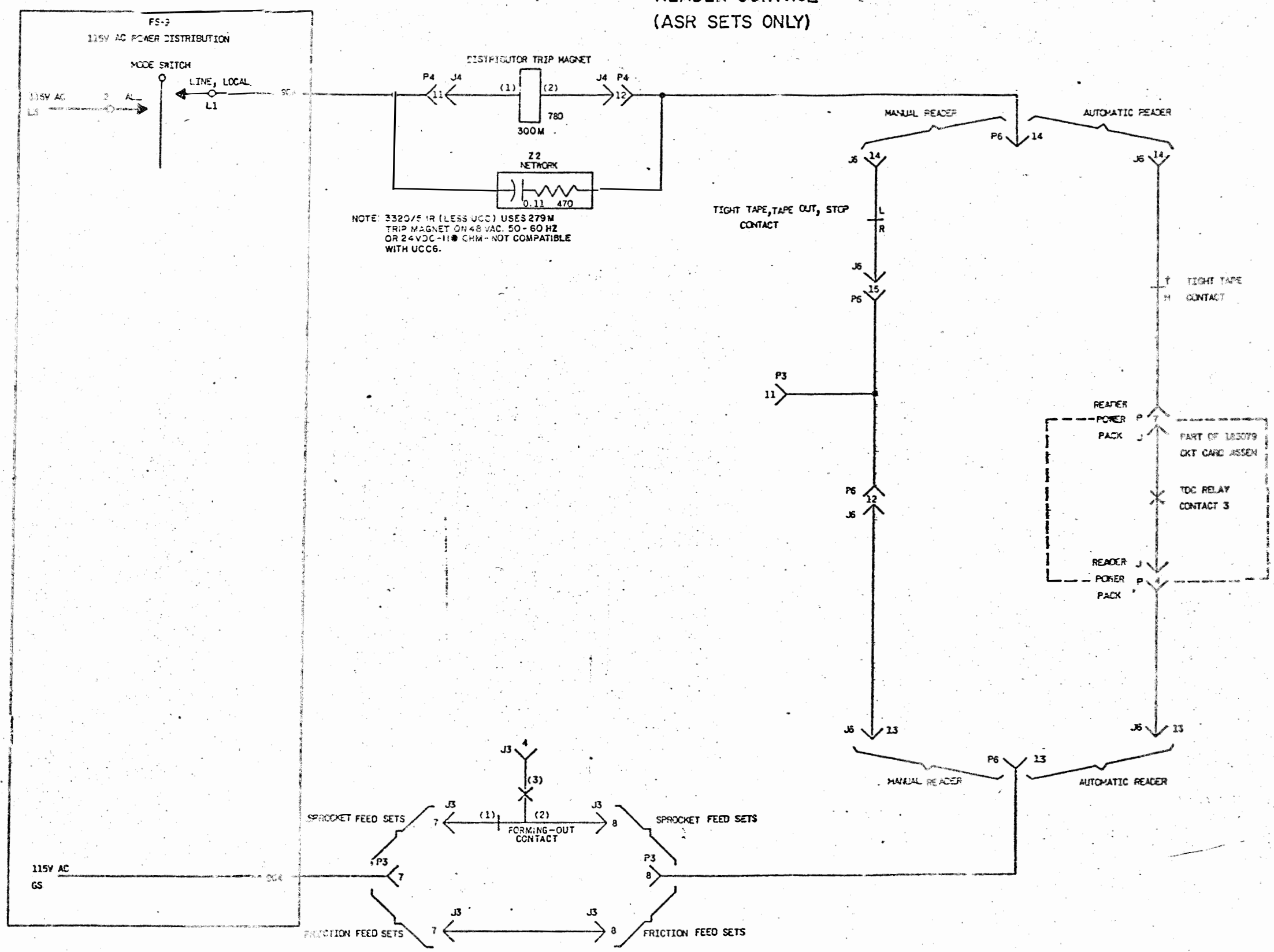


* CUSTOMER ACCESS TO THE PINS SHOWN IS TO BE MADE FROM INSIDE THE CALL CONTROL UNIT BACK PLATE, USING 162644 (22-28 AWG) OR 185677 (18-20 AWG) FEMALE TERMINALS.

MODEL 33 RC, PSR, AND ASR SETS 3300, 3310, 3320 SERIES	
1180 SD-B5	

VOP

FS-6 READER CONTROL (ASR SETS ONLY)

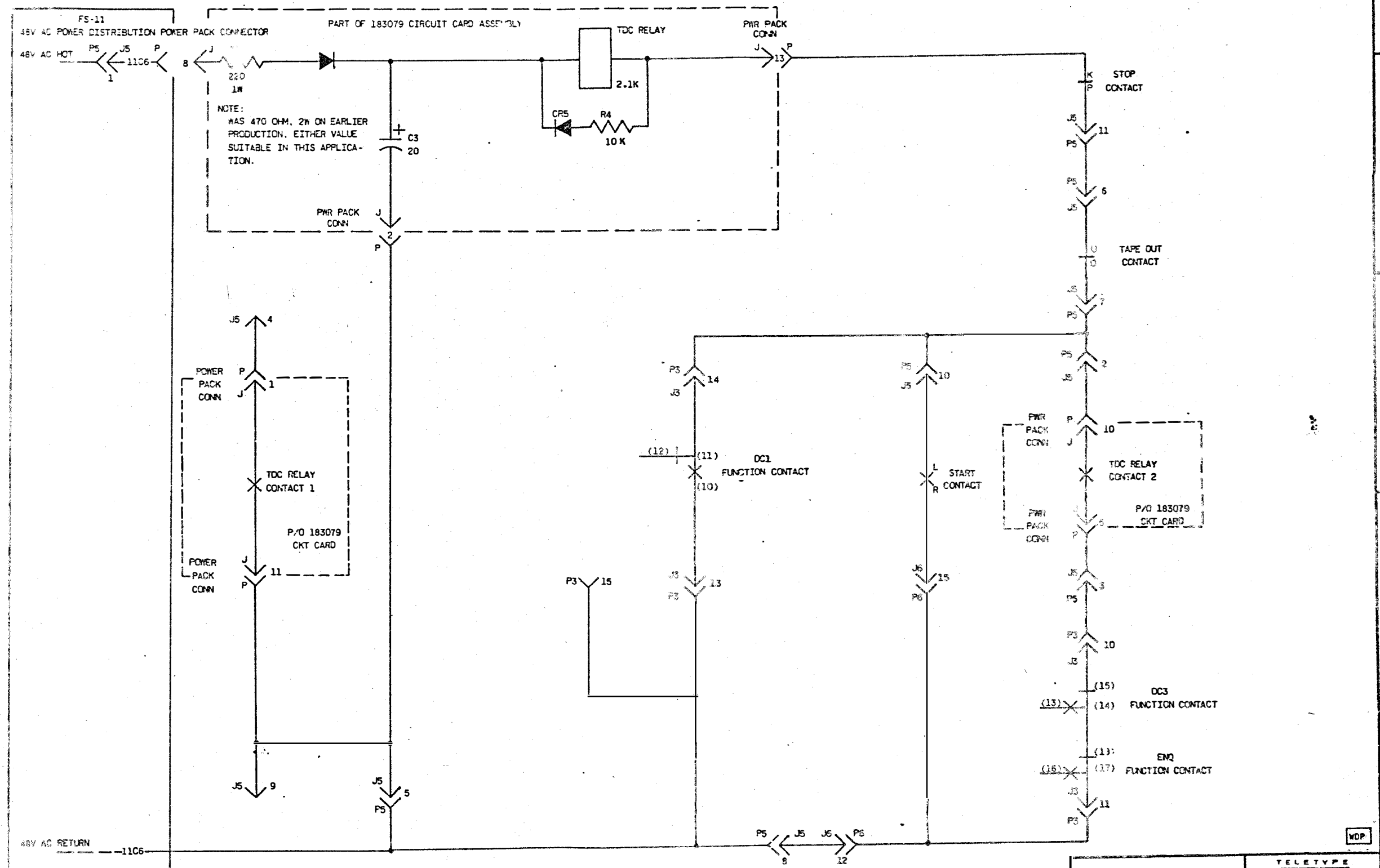


MODEL 33 FOR 3320, 3321, AND ASR SETS 3320, 3321, 3322 SERIES	 TELETYPE
1190 SD-B6	

FS-7

AUTOMATIC READER LOGIC

(ASR SETS W/AUTOMATIC READER ONLY)



MODEL 33
RD. KSR. ASR SETS
3300, 3310, 3320 SERIES

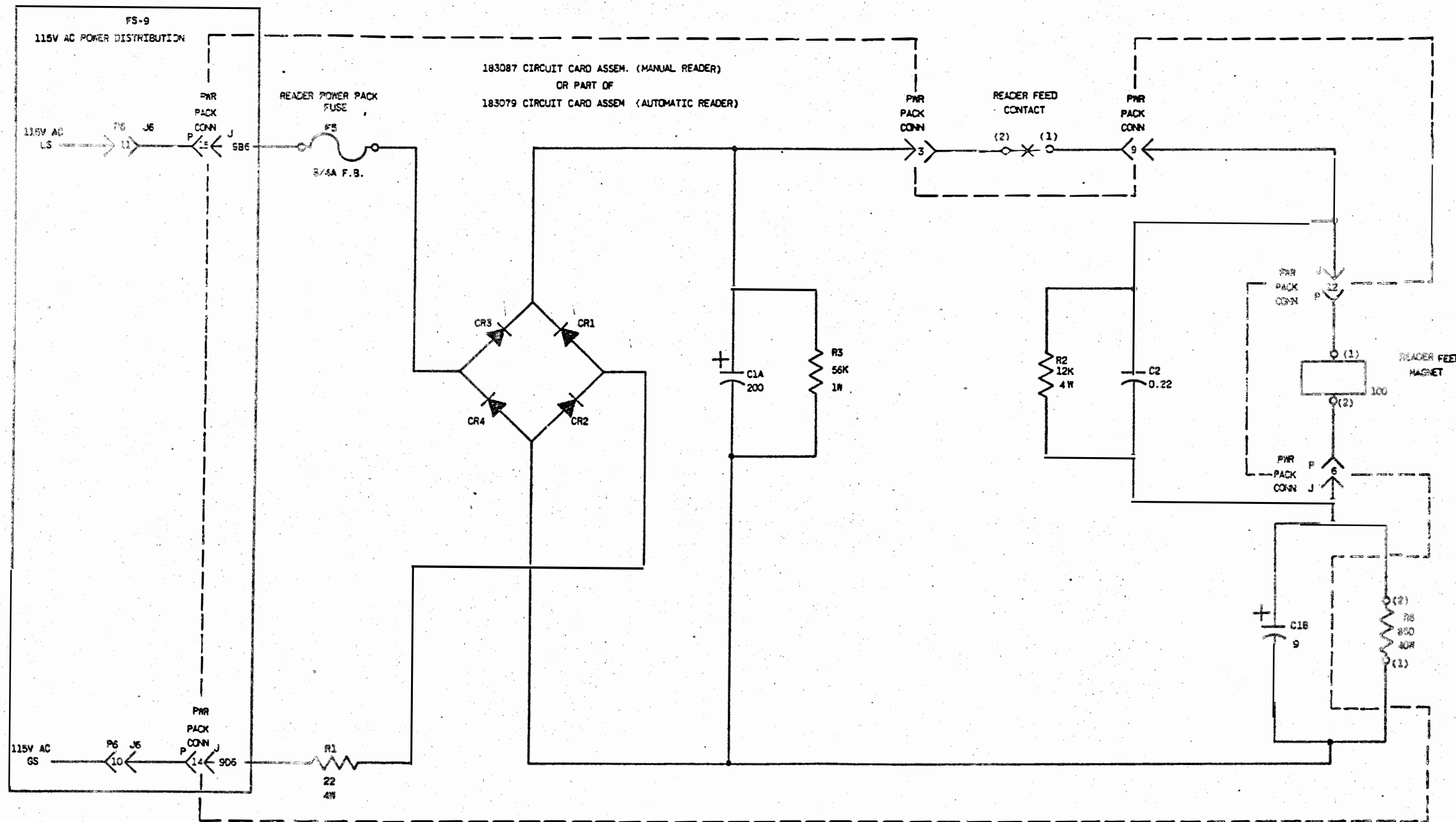
TELETYPE

1190 SD-B7

FS-8

READER FEED

(ASR SETS ONLY)

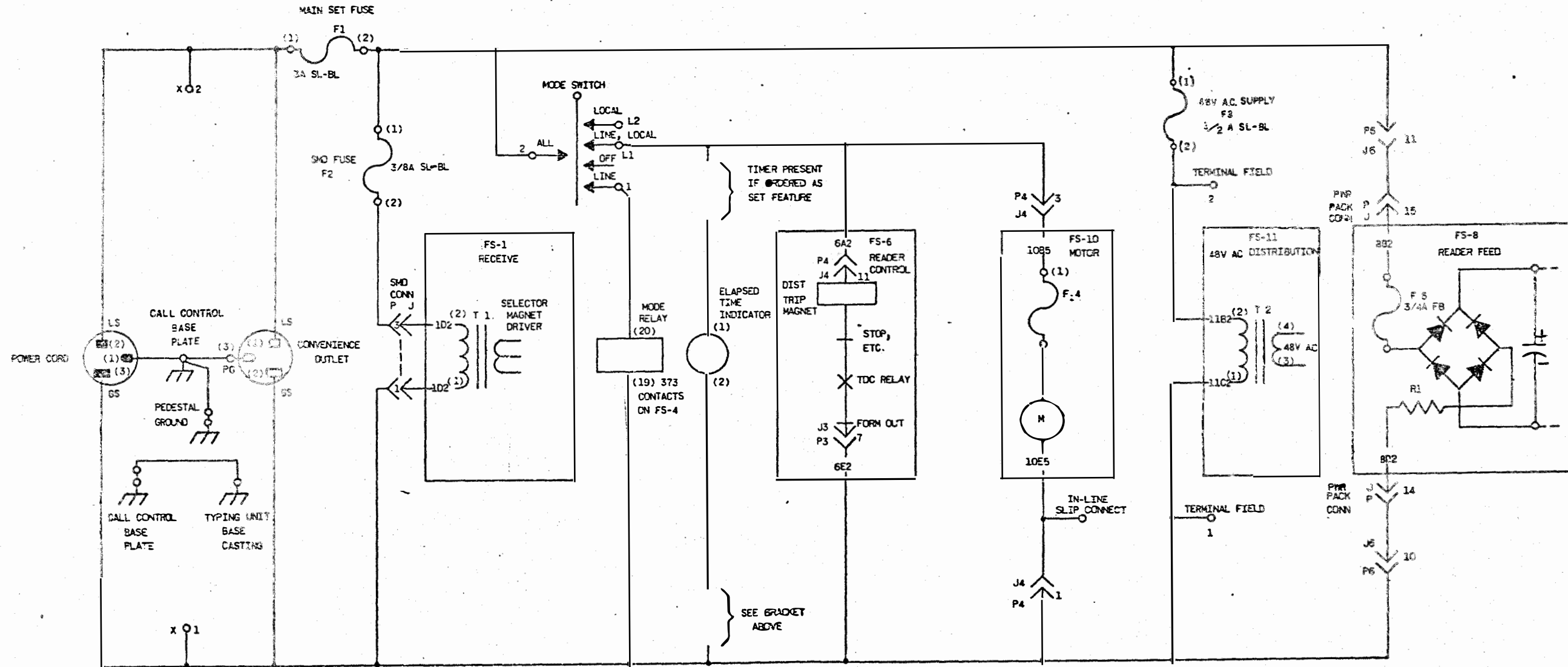


MODEL 33
 AC. KSR ASR SETS
 3310, 3310, 3320 SERIES


 1180 SD-88

FS-9 115VAC POWER DISTRIBUTION

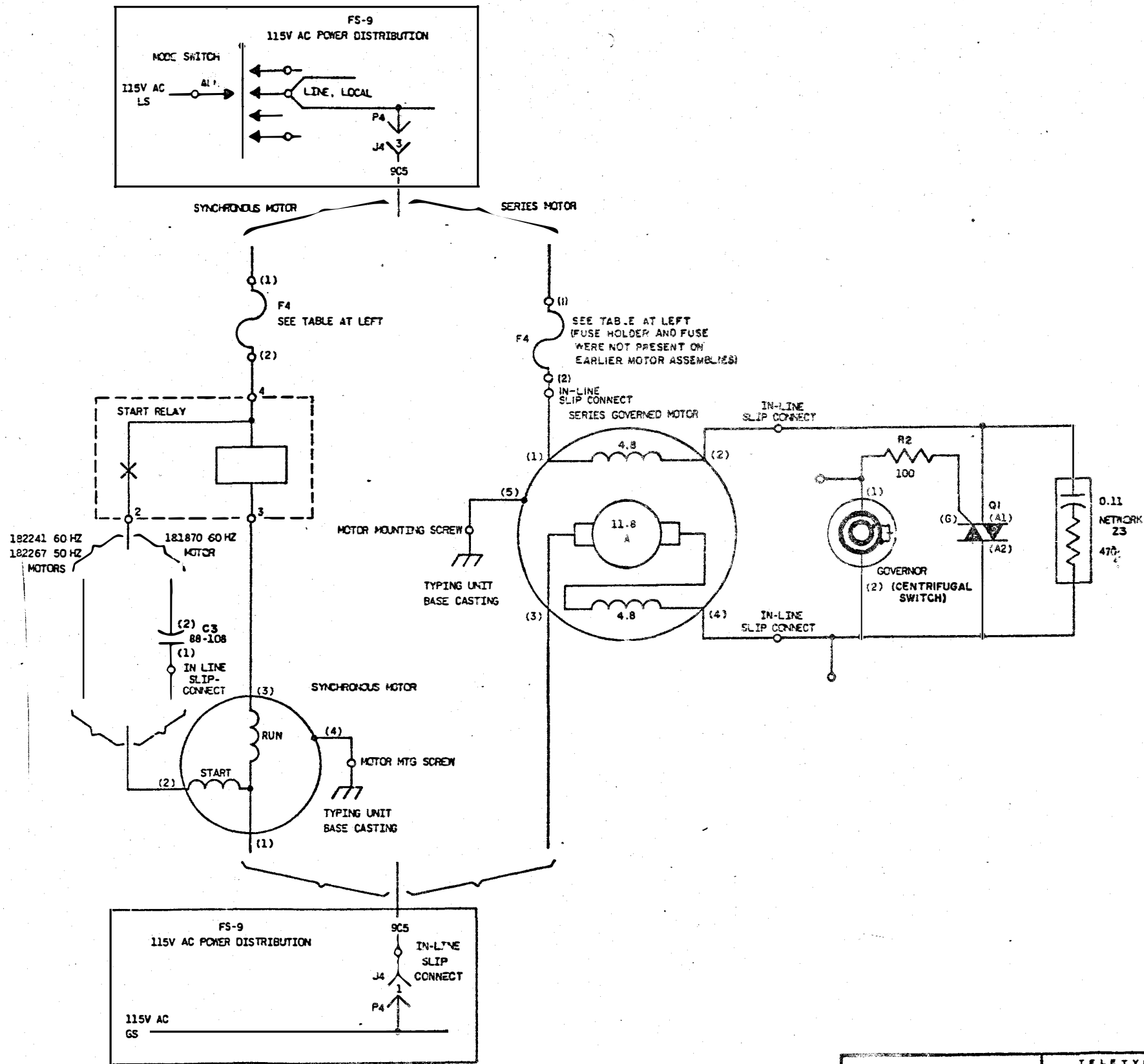
ISSUE
1
2



MODEL 33 RD, KSR, AND ASR SETS 3300, 3310, 3320 SERIES	
1180 SD-B9	

FS-10 MOTORS

SYNCHRONOUS MOTORS				
MOTOR PART NUMBER	FREQ. HZ	FUSE F 4	MHP	CAPACITOR
181870	60	2 1/4A SL-BL	33	88-108 MFD
182241	60	2A SL-BL	33	—
182257	50	1 8/10 A SL-BL	35	—
SERIES GOVERNED MOTOR				
183991	50-60	1A SL-BL	83	—



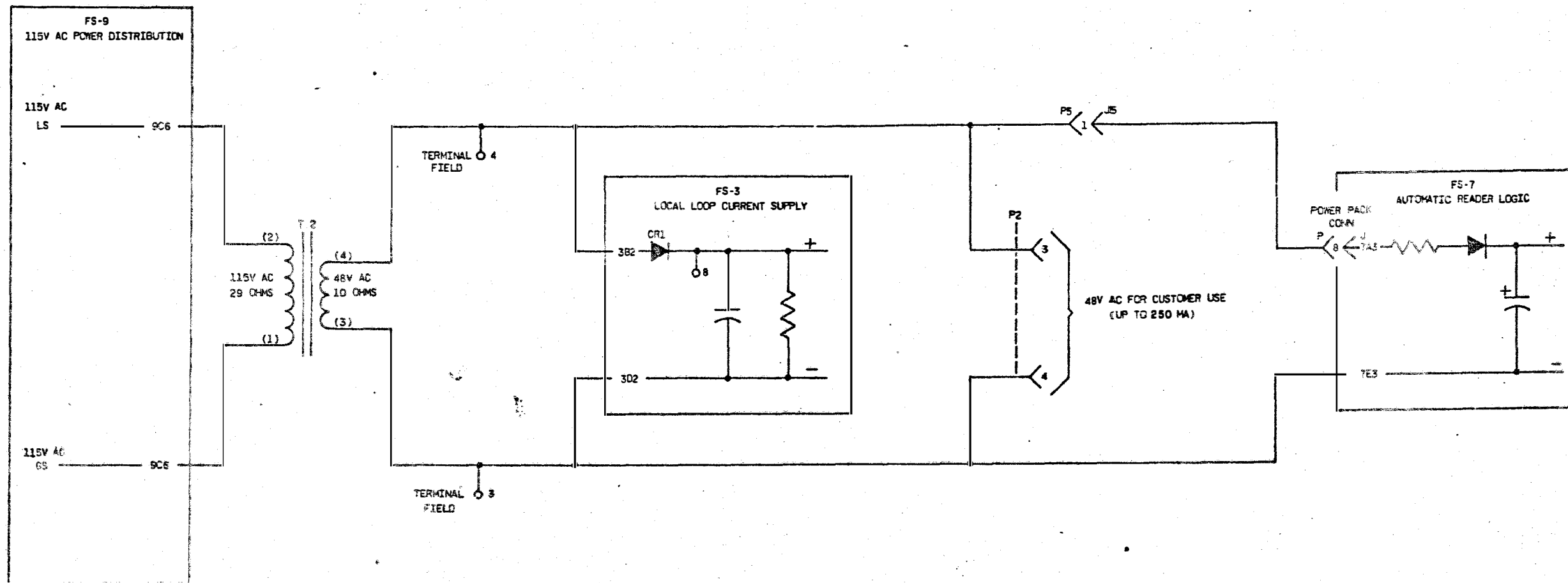
MODEL 33
710, KSR, AND ASR SETS
3300, 3310, 3320 SERIES


TELETYPE
1180 SD-B10

FS-II

48VAC POWER DISTRIBUTION

ISSUE
1
2



MODEL 33 RO, KSR, AND ASR SETS 3300, 3310, 3320 SERIES	 TELETYPE
1180 SD-B11	

APPARATUS FIGURES

CAPACITORS (NOT ON CKT CARD ASSEM.)

C1 (LOCAL LOOP SUPPLY)	3C3
C2 (SELECTOR MAG. DRIVER)	1E4
C3 (MOTOR START)	1004

SMD CONN

J = FRAME SIDE, P = CABLE SIDE

TERM	FS/LOC
1	9C3
2	-
3	9C3
4	1B3
5	1B6
6	1B6
7	1B3
8	1C3
9	1C3

CIRCUIT CARD ASSEMBLIES

AUTOMATIC READER 183079	
READER FEED SUPPLY	SHEET 8
RDR LOGIC	7B4
MANUAL READER 183087	SHEET 9

CONNECTORS NUMBERED

CONNECTOR SHELL DESIGNATION J = CABLE SIDE P = FRAME SIDE

SELECTOR MAGNET DRIVER CARD 181221	DATA SOCKET 181879	
TERM	FS/LOC	TERM
J	1B6	A
2	1C5	B
3	1C5	C
4	-	D
5	-	E
6	-	F
7	1C4	G
8	1B3	J
9	-	K
10	1C4	L
11	1C4	M
12	1C6	N
13	1C5	P
14	1B3	R
15	1E4	S

J AND P	1	2	3	4	5	6	7	8
TERMINAL	FS/LOCATION							
1	2D3	-	8D6	9D6	11B5	2C3	2B3	2C5
2	2D3	-	5B6	-	7C6	2C3	2B3	2C5
3	2D3	11C5	-	9B6	7D6	2C3	2B3	2C5
4	2D3	11C5	-	5C5	7C3	2C3	2B3	2C5
5	2E3	4D3	-	5D5	7E4	2C3	2B3	2C5
6	2E3	4D3	6D3	-	7B6	2D3	2B3	2C5
7	2E3	4E3	6E3	-	7C6	2D3	2B3	2C5
8	2E3	4B3	6E4	-	7E5	2D3	2B3	2C5
9	2E2	-	-	106	7E3	2D3	2B3	2C5
10	-	-	7D6	106	7C6	9D6	2E6	2D7
11	5C4	-	6C4 7E6	6A3	7B6	9B6	2E6	5C3
12	5C4	-	-	6A4	-	6C9 7E5	-	5C3
13	5D4	-	7D5	-	-	6D5	-	5D3
14	-	-	7C5	-	-	6B5	-	-
15	-	-	7D4	-	-	6B5 7D6	-	-

CONNECTORS, TITLED

READER POWER PACK CONN.

J - CARD SIDE
P - CABLE SIDE

TERM.	FS/LOC	
	MAN. AND AUTO.	AUTO. ONLY
1		7C3
2		7B4
3	8B4	
4		6D6
5		7D6
6	8C6	
7		6C6
8		7B3/11C6
9	8B5	
10		7C6
11		7D3
12	8B6	
13		7B5
14	9C6	
15	9B6	

CONTACTS

ANSWERBACK	2D5
BREAK KEY	2E6
FORMING OUT FUNCTIONS	6E3
DC1	7C5
DC3	7D6
ENQ	7E6
EOT	5B5
KEYBOARD	2B3
PAPER OUT	5C2
PARALLEL INTERFACE	2D3
READER FEED	8B5
READER (SIGNAL)	2C3
START (AUTO READER)	7C6
STOP (AUTO READER)	7B6
TAPE OUT (AUTO READER)	7B6
TIGHT TAPE (AUTO READER)	6B6
TIGHT TAPE, TAPE OUT, STOP (MANUAL READER)	6B5

CORD

POWER	9C1
-------	-----

DIODES (NOT ON CKT. CARD ASSEMBLY)

CR1	3B3
-----	-----

DISC

DISTRIBUTOR	2C6
-------------	-----

FUSES

F1 (MAIN)	9B2
F2 (SMD)	9B2
F3 (48VAC)	9B6
F4 (MOTOR)	10B4
F5 (READER)	8B2

GOVERNOR

	10C6
--	------

MAGNETS

ANSWERBACK TRIP	5C6
DISTRIBUTOR TRIP	6A3
READER FEED	8C6
SELECTOR	1B6

MOTOR

SYNCHRONOUS	10D4
SERIES GOVERNED	10C6

NETWORKS

Z1	2C2
Z2	6B3
Z3	10C7

RECEPTACLE

CONVENIENCE OUTLET	9C2
--------------------	-----

RELAYS

MODE	
COIL	9C3

CONTACTS:

FORM	TERMS
C	1,2,3 4A5
C	4,5,6 4E5
C	7,8,9 4D5
C	10,11,12 4C5
A	13,14 4E4
B	15,16 4C3
B	17,18 4D4

MOTOR START	10C4
-------------	------

TOG (P/O 183079 CKT. CARD ASSEM.)

COIL	7A4
CONTACTS:	
1	7C3
2	7C6
3	6C6

RESISTORS (NOT ON CKT. CARD ASSEM.)

R1	3B4
R2	10C7
R6 OF RDR PWR. PACK	8D6

SWITCH

LOW PAPER	5C2
MODE	9B3

TERMINAL FIELD

TERMINAL	
1	9D6
2	9B6
3	11D3
4	11B3
5	-
6	-
7	-
8	3B3

TERMINAL STRIP

X (CUSTOMER INTERFACE)

TERMINAL 1	9D2
TERMINAL 2	9B2
TERMINAL 3	4C3
TERMINAL 4	4D3
TERMINAL 5	4D4
TERMINAL 6	4E2
TERMINAL 7	4A2
TERMINAL 8	1C5
TERMINAL 9	1C3

THYRISTOR (TRIAC)

(NOT ON CKT CARD ASSEM.)
Q1 10C7

TRANSISTOR (NOT ON CKT. CARD ASSEM.)

Q2 OF SMD ASSEMBLY 1C5

TIMER

ELAPSED TIME INDICATOR 9C4

TRANSFORMER

T1 SMD	1D3
T2 48V AC	11C2

NOTES

CIRCUIT NOTES

101. FUSING

DESIGNATION	FUNCTIONAL TITLE	FUSE AMP.	POTENTIAL AT FUSE	PHYSICAL LOCATION
F1	MAIN SET FUSE	3A SL-BL	115VAC	CALL CONTROL UNIT
F2	SMD FUSE	3/64 SL-BL	"	"
F3	48VAC SUPPLY	1/2A SL-BL	"	"
F4	MOTOR FUSE	DEPENDS ON MOTOR USED. SEE SHEET B10	"	TYPING UNIT
F5	READER FUSE	3/4A SL-BL	"	READER POWER PACK AT FRONT OF CALL CONTROL UNIT

VOLTAGE SYMBOL	VOLTAGE RANGE
115V AC	103VAC TO 127VAC

FREQUENCY	FREQUENCY RANGE
50Hz 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, 3B5	9133WD	
* 60MA SIGNAL INPUT	1C3, 3C5	1A0, 2D3	
* HALF DUPLEX SIGNALING	4C4, 4E4	9330WD	
* FULL DUPLEX SIGNALING		2E3	
* EVEN PARITY KEYBOARD			
LEVEL 8 ALWAYS MARK	} 2B3 AND 9334WD	9334WD	
LEVEL 8 ALWAYS 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 COORDINATES LOCATION LEGEND



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

303. ALL RESISTANCE VALUES IN OHMS AND CAPACITANCE VALUES IN MICROFARADS UNLESS OTHERWISE SPECIFIED.

304. SYMBOLS

- NORMALLY OPEN CONTACT
- NORMALLY CLOSED CONTACT
- TRANSFER CONTACT
- CIRCLE INDICATES PRESENCE OF REMOVABLE CONNECTION(S) IN THAT NODE OTHER THAN A MULTI-TERMINAL CONNECTOR.
EXAMPLE A: REMOVABLE RELATIONSHIP SHOWN.
EXAMPLE B: REMOVABLE RELATIONSHIP NOT SHOWN.
- CIRCUITRY WITHIN SINGLE SOLID LINE ENCLOSURE IS SHOWN FOR REFERENCE ONLY. IT IS SHOWN IN DETAIL ELSEWHERE IN THE SAME SD.
- A DOUBLE SOLID LINE ENCLOSURE MEANS THE DETAILED INFORMATION IS FOUND IN A DIFFERENT SD OR WD.
- DASHED LINE BOUNDARIES INDICATE A RELATION BETWEEN OR COMMONALTY OF THE ITEMS WITHIN. LOOK FOR NAME OR NUMBER WITHIN THE BOUNDARY.
- CIRCUIT COMMON RETURN
- FRAME OR CHASSIS GROUND
- LETTER OR TITLE IN CIRCLE OR OVAL INDICATES PRESENCE OF WIRING OPTION WHICH THE CUSTOMER CAN ARRANGE TO SUIT HIS CHOICE OR REQUIREMENT WITHIN THE POSSIBILITIES SHOWN.

WIRING STATUS:

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

MODEL 33 NO. KSR AND 4SR SETS 3300, 3310, 3320 SERIES	TELETYPE
11805D-01	

NOTES
GENERAL INFORMATION

COILS

<u>NUMBER</u>	<u>272 M</u>	<u>279 M</u>	<u>300 M</u>
FUNCTION	ALARM BACK TRIP	READER TRIP	READER TRIP
VOLTAGE RATING	48 VAC ±10%, 50/60 Hz 24 VDC ±10%	48 VAC ±10%, 50/60 Hz 24 VDC ±10%	115 VAC ±10%, 50/60 Hz
COIL RESISTANCE	110 Ω ±10%	110 Ω ±10%	780 Ω ±5%

RELAYS

<u>NUMBER</u>	<u>78306</u>
FUNCTION	MOTOR CONTROL
VOLTAGE RATING	16-28 VDC
CONTACT RATING	1/2 HP 125-250 VAC, 8 AMPS ; 250 VAC
COIL RESISTANCE	440 Ω ±10%
PICK UP TIME	25 ms MAX.
RELEASE TIME	16 ms MAX.
CONTACT BOUNCE	5-7 ms MAX.

SWITCHES

<u>NUMBER</u>	<u>19207</u>	<u>19344</u>	<u>18144</u>	<u>153954</u>
FUNCTION	FUNCTIONS DC1, DC3, ENG & ECT	PAPER ALARM-SPROCKET FEED	PAPER ALARM-FRICTION FEED	18684B LCA TAPE MCC. KIT
VOLTAGE RATING	115 VAC 115 VDC	115 VAC 10-48 VDC	120-240 VAC 30 VDC	125-250 VAC 30 VDC
MAXIMUM CONTACT CURRENT	100 MA (INC & RES) AC 100 MA (INC & RES) DC W/SPARK PRCT.	2 AMPS AC 25 MA (INC) 300 MA (RES) DC	5 AMPS AC 3 AMPS (INC) 4 AMPS (RES) DC	5 AMPS (RES) AC 3 AMPS (INC) 4 AMPS (RES) DC
TIME FROM END OF START PULSE TO CONTACT OPERATION	140-150 ms	---	---	---
DURATION OF BOUNCE	3 ms	---	---	---
DURATION OF OPERATION INCLUDING BOUNCE	32-40 ms	---	---	---

MOTORS

<u>NUMBER</u>	<u>181670</u>	<u>182241</u>	<u>182267</u>	<u>183991</u>
TYPE	33 HP, SINGLE PHASE, SYN.	33 HP, SINGLE PHASE, SYN.	35 HP, SINGLE PHASE, SYN.	1/12 HP, SINGLE PHASE SERIES
DESIGNED SPEED	3600 RPM	3600 RPM	3000 RPM	3600 RPM WITH SPEED REGULATOR
RATED LOAD	9 CZ. IN.	9 CZ. IN.	10.8 CZ. IN.	9 CZ. IN.
VOLTAGE RATING	115 VAC ±10%, 60 CYCLE	115 VAC ±10%, 60 CYCLE	115 VAC ±10%, 50 CYCLE	115 VAC ±10%, 50/60 CYCLE
START CURRENT	7 AMPS	11.8 AMPS	10.7 AMPS	2.5 AMPS
RUN-CURRENT-RATED LOAD	2 AMPS	2.6 AMPS	1.7 AMPS	.9 AMPS
TIME TO REACH SYNCHRONOUS SPEED-RATED VOLTAGE ±10%	WITHIN 1 SECOND	WITHIN 1 SECOND	WITHIN 1 SECOND	WITHIN 1 SECOND
POWER FACTOR-RATED LOAD	.4 NOMINAL	.4 NOMINAL	.4 NOMINAL	.6 NOMINAL
LAG ANGLE-RATED LOAD	6 DEGREES NOMINAL	6 DEGREES NOMINAL	8 DEGREES NOMINAL	---
MINIMUM INTERVAL BETWEEN REPEATED MOTOR STARTS	20 SECONDS MIN.	20 SECONDS MIN.	20 SECONDS MIN.	20 SECONDS MIN.

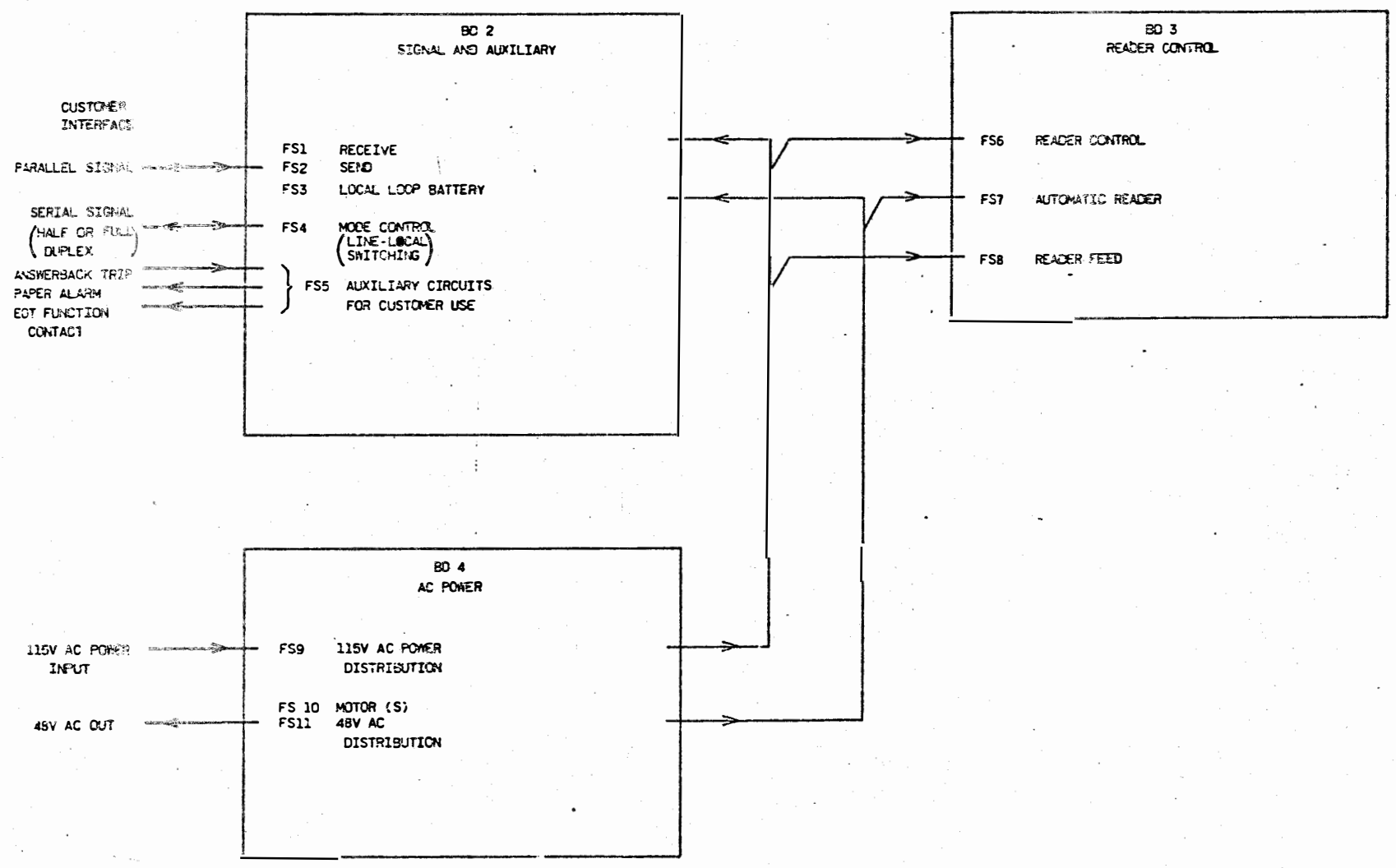
MODEL 33
RU, KSR AND ASR SETS
3300, 3310, 3320 SERIES



1180SD-D2

BD-1

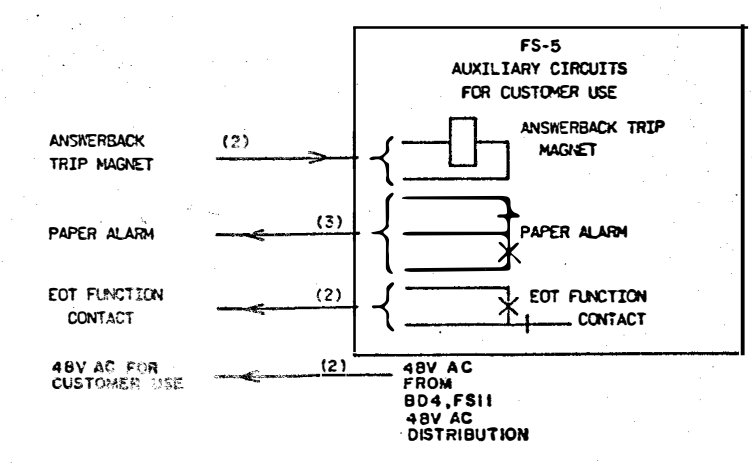
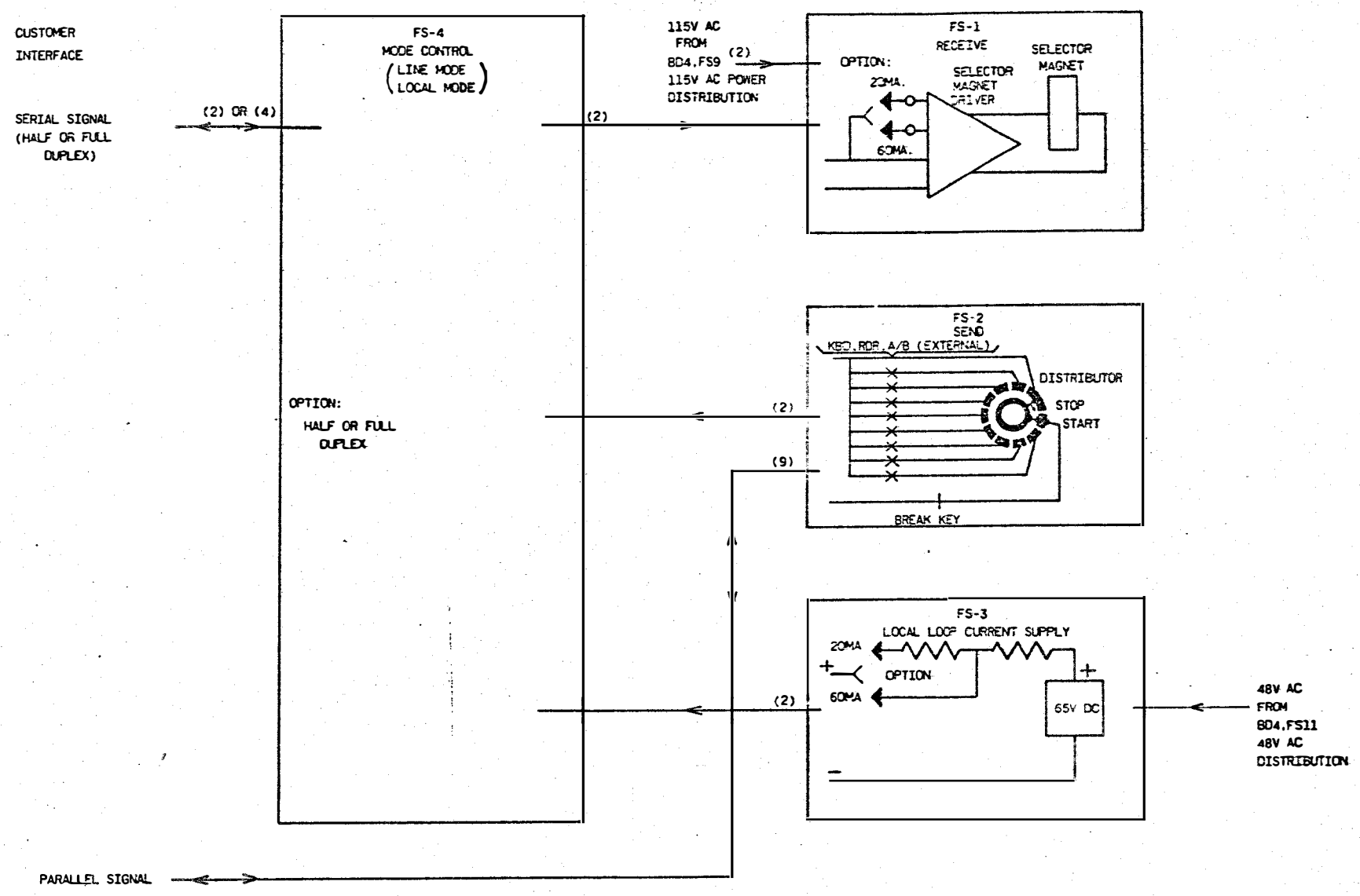
CIRCUIT BLOCK DIAGRAM



MODEL 33 NO. KSR. AND ASP SETS 3300, 3310, 3320 SERIES	
1180 SD-HI	

BD-2 SIGNAL AND AUXILIARY

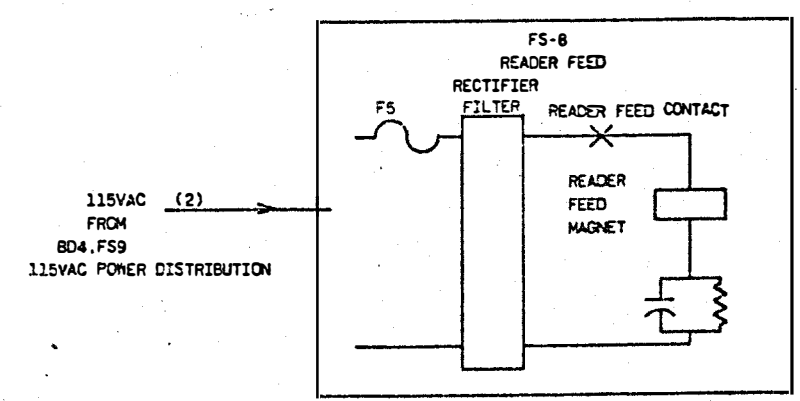
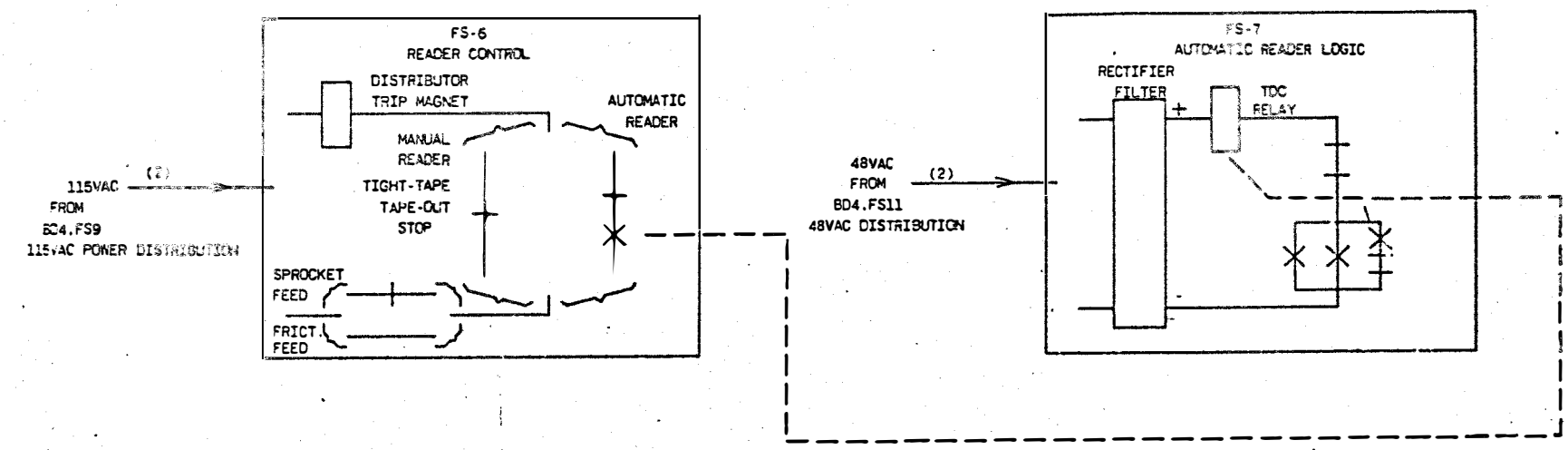
() INDICATES NUMBER OF WIRES REPRESENTED BY THE LINE BELOW.



MODEL 33 TRO, KSR, AND ASR SETS 3300, 3310, 3320 SERIES	 1180 SD-H2
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() INDICATES NUMBER OF WIRES
REPRESENTED BY THE LINE BELOW

BD-3 READER CONTROL (ASR SET ONLY)

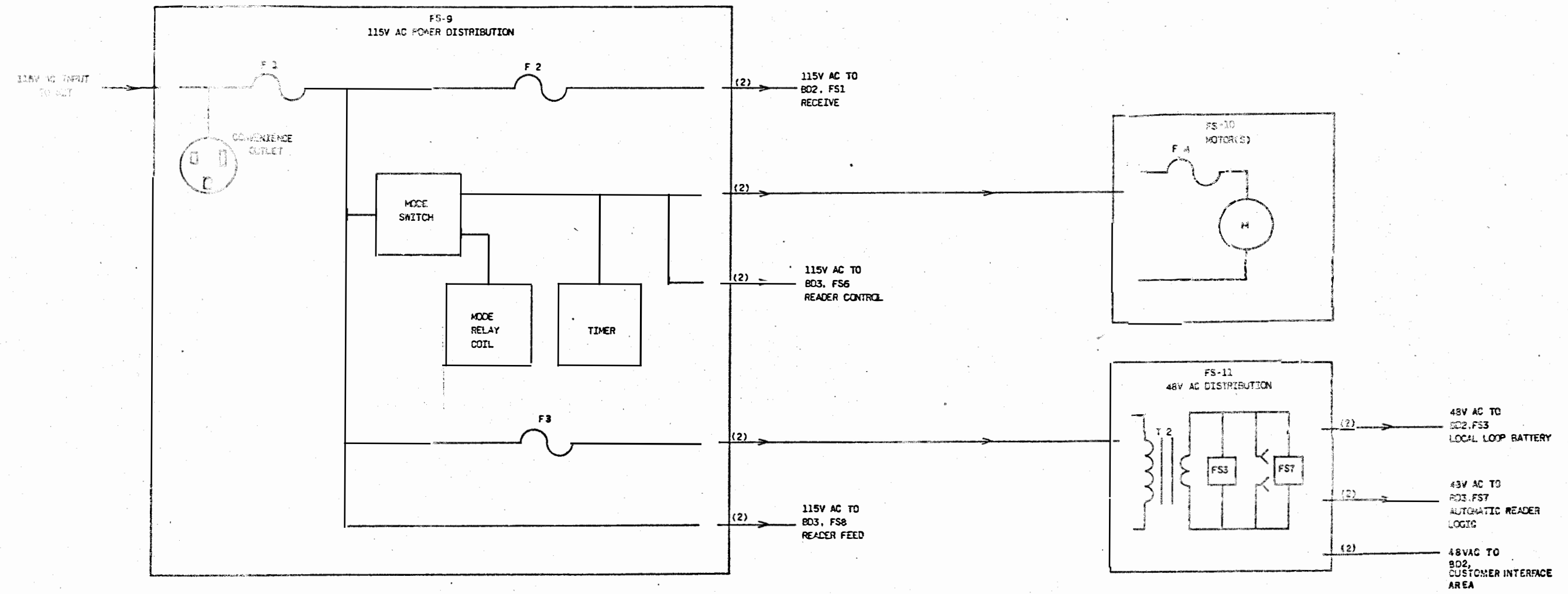


MODEL 33 RD, RDH, AND ASR SETS 3300, 3310, 3320 SERIES	 1180 9D-H3
--	-----------------------

WOP

() INDICATES NUMBER OF WIRES REPRESENTED BY THE LINE BELOW.

BD-4 AC POWER



DEL 25 RO, KSR, AND ASR SETS 3300, 3310, 3320 S-RIS	 TELETYPE
1180 SD-H4	

NOTES

1. SYMBOLS

HEAVY LINES REPRESENT CIRCUIT PATHS PROVIDED BY METAL PLATES IN CONTACT BLOCK ASSEMBLY.

CIRCLE INDICATES PRESENCE OF REMOVABLE CONNECTION IN THAT NODE OTHER THAN A MULTI-TERMINAL CONNECTOR.

FEMALE TERMINAL OF MULTI-TERMINAL CONNECTOR

MALE TERMINAL OF MULTI-TERMINAL CONNECTOR

NORMALLY OPEN CONTACT

NORMALLY CLOSED CONTACT

CONTACT CONTROL, SHIFT, BREAK

DEFINITION OF NORMAL KEY NOT DEPRESSED RESPECTIVE CODE BARS ARE IN THE SPACING POSITION, AND KEYBOARD IS TRIPPED

2. SYMBOLS

1) TERMINAL DESTINATION WITHIN IS FOR REFERENCE AND IS NOT MARKED ON THE COMPONENT.

2) LEVEL 2 OPTION WIRE FOR (A) AT FACTORY

OPTION	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
(A) EVEN PARITY	ON	OFF	OFF	ON
(B) LEVEL 2 ALWAYS MARK	OFF	ON	ON	ON
(C) LEVEL 3 ALWAYS SPACE	EITHER ONE ON OR BOTH OFF	ON OR OFF	ON OR OFF	OFF

FUNCTIONAL OPTIONS FOR WHICH THIS PATH MUST BE CONNECTED

REFERENCE DESIGNATION OF ASSOCIATED LEAD

3. SYMBOLS

WIRING LEGEND:

DISTANT TERMINATING AREA

DISTANT TERMINATING TERMINAL

WIRE COLOR (1, 2, OR 3 COLORS)

CONNECTORS:

NO PIN

FEMALE PIN

MALE PIN

BLOCKING PIN

LARGER PERIMETER SHELL DESIGNATED J

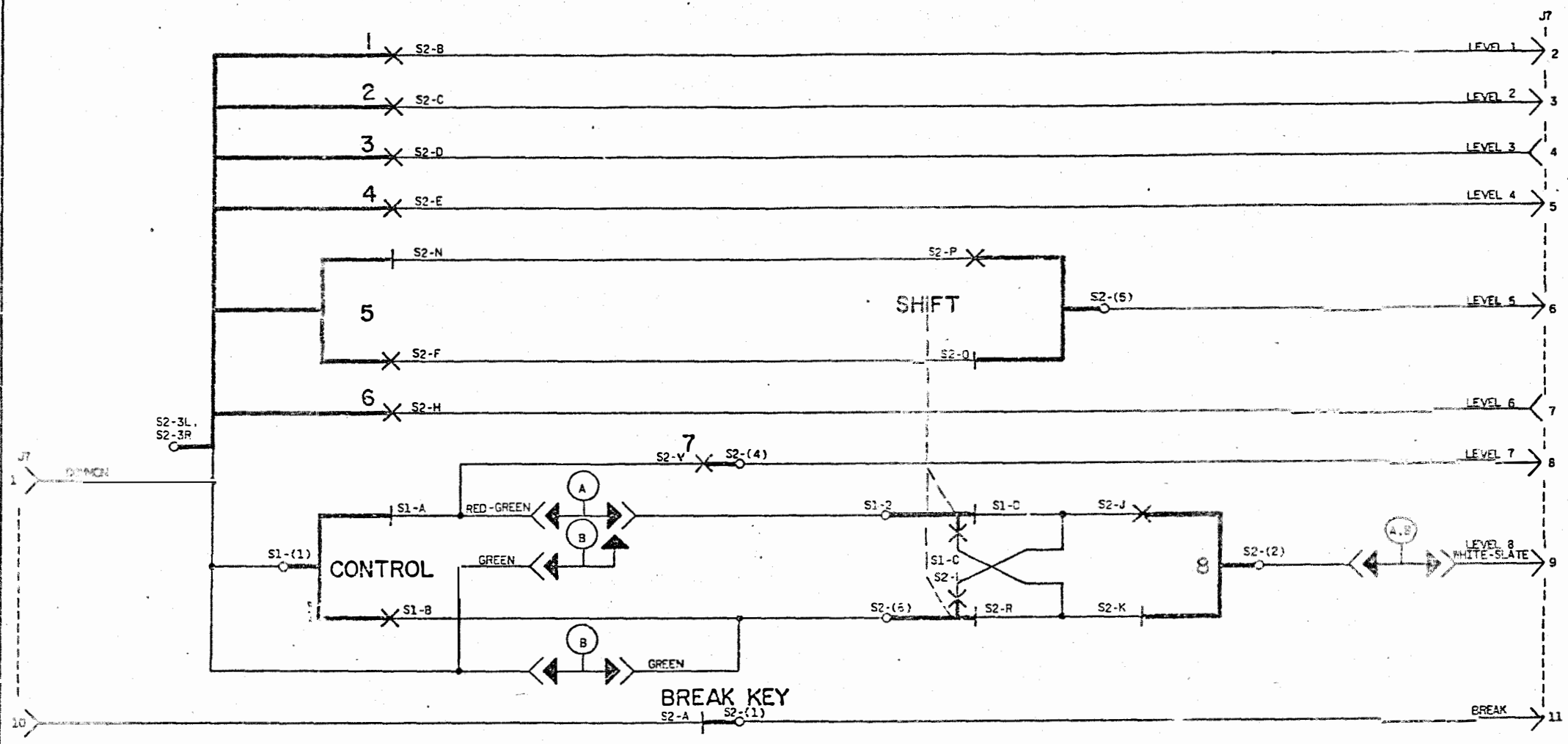
SMALLER PERIMETER SHELL DESIGNATED P

WIRE SPLICE (NOT REPRESENTED ON SCHEMATIC)

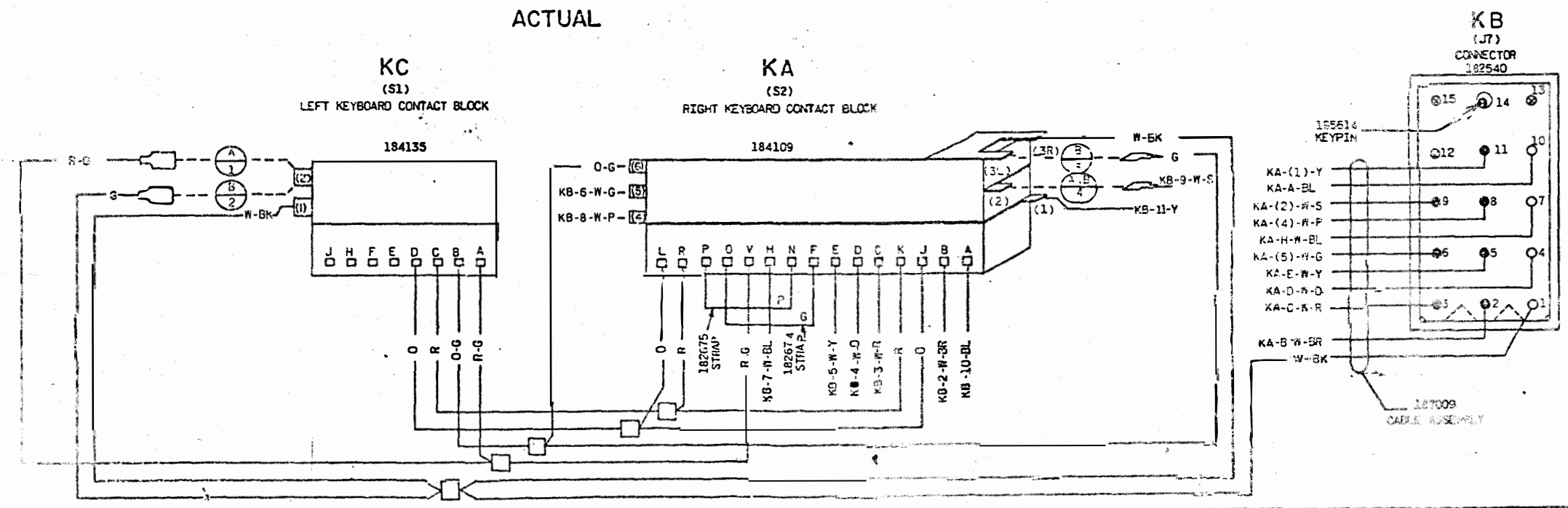
4. WIRE COLOR CODE:

BK-BLACK	G-GREEN
BR-BROWN	BL-BLUE
R-RED	P-PURPLE
O-ORANGE	S-SLATE
Y-YELLOW	W-WHITE

SCHEMATIC



ACTUAL



REVISIONS

ISSUE	DATE	AUTH. NO.
1	7-7-71	2643R
2	1-2-72	4853-RC

MODEL 33 KEYBOARD LX 819

APPROVALS

PROJ. DIR. MFG. REL. COMPL. DRN. SLD. DATE 4-27-71 RBD FILE 6-A152.219A S-NUMBER 61 010

TELETYPE

9334 WD

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO.																									SHEET NO.	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
181361 & 181861 MOTORS, 60 HZ	1				11	12	13	13	14																			1
181870 & 182241 MOTORS, 60HZ 182267 MOTOR, 50 HZ	2				12	13	14	14	14																			2
333521 AC SERIES MOTOR	3				1	2	3	4																			3	

SUPPORTING INFORMATION

CATEGORY	NO.

REVISIONS

ISSUE	DATE	AUTH. NO.
1	3-9-66	8972-R
2	1-25-70	92607
3	2-19-70	99947-4
4	8-25-70	621
5	12-9-70	2145
6	12-15-70	2220
7	11-19-71	4539
8	9-28-76	16760

SHEET INDEX NOTES

1. WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
2. THIS SHEET INDEX WILL BE REISSUED AND UPDATED EACH TIME ANY SHEET OF THE DRAWING IS REISSUED OR A NEW SHEET IS ADDED.
3. THE LAST COMPLETED COLUMN INDICATES THE LATEST ISSUE NUMBER OF THE SHEET INDEX.
4. SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NO.
5. ISSUE DATES WILL BE SHOWN ON THE SHEET INDEX ONLY.

WDP

ACTUAL
WIRING
DIAGRAM
FOR MODEL
32/33
MOTORS

APPROVALS

PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL. <i>LJM</i>
ENGR. PRS	DSGNR.	
DRN. LAB	DATE 12-15-70	
R & D FILE		
S-NUMBER		



4405 WD

4405 WD

REVISIONS

ISSUE	DATE	AUTH. NO.
A2	3-3-62	30-973
A3	11-5-62	20-5130
A4	1-3-63	30-5139
A5	11-11-63	78056
6	6-9-64	21173
7	6-8-65	27050
8	1-13-66	8984-3
9	3-9-66	692.2
10	2-18-70	59647-4
11	8-24-70	621
12	12-9-70	2145
13	12-14-70	2220
14	9-28-76	18760

NOTES

1. WIRING LEGEND:
 DISTANT TERMINATING AREA
 DISTANT TERMINATING DESIGNATION
 A-2-Y [6-B]-NOTE-5
 WIRE COLOR CODE

2. COLOR CODE:
 BK-BLACK P-PURPLE
 BL-BLUE R-RED
 BF-BROWN S-SLATE
 Y-YELLOW O-ORANGE
 G-GREEN W-WHITE

3. ASSOCIATED SCHEMATIC 4403WC.

4. 182277 RESISTOR-10 OHMS, 5 WATT
 (PART OF 181397 CAPACITOR W/RESISTOR ASSEMBLY)

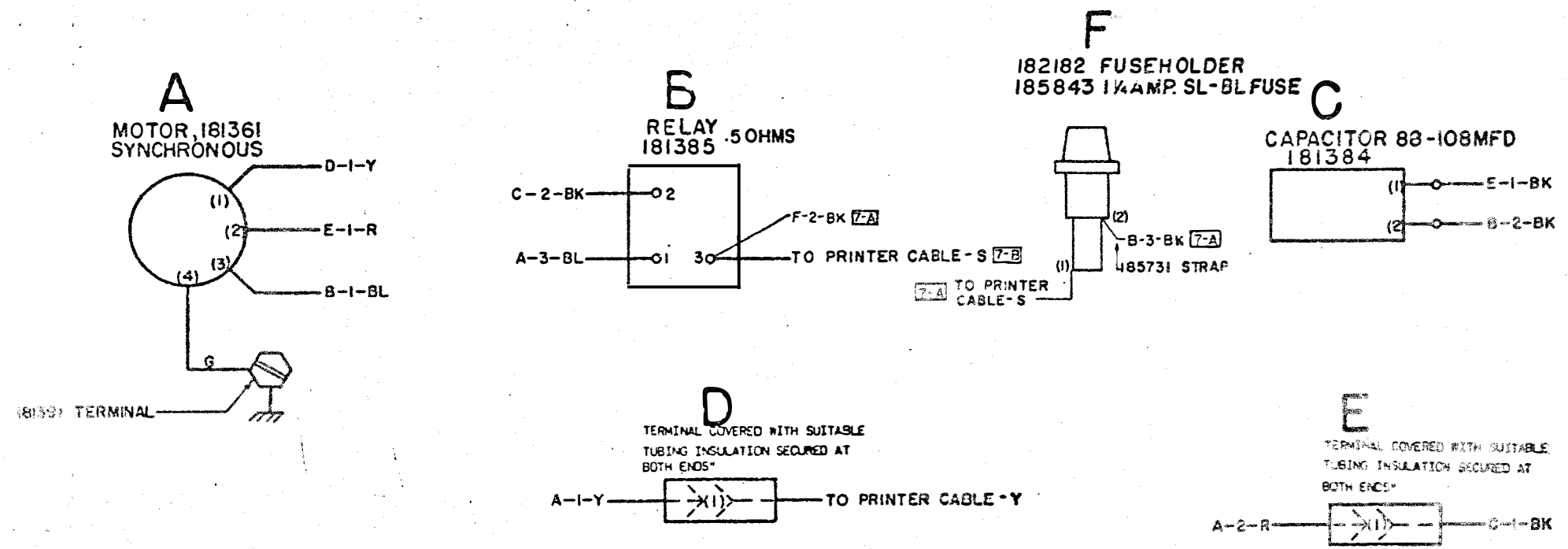
5. WIRING STATUS:
 RECTANGULAR BOX INDICATES HISTORY OF WIRING CHANGES
 R - REMOTES WIRING BEFORE THE CHANGE DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT.
 NOTE NUMBER
 A - REMOTES WIRING AFTER THE CHANGE DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT.

6. 185731 STRAP AND FUSE ASSEMBLY NOT INCLUDED IN EARLY ACTS.

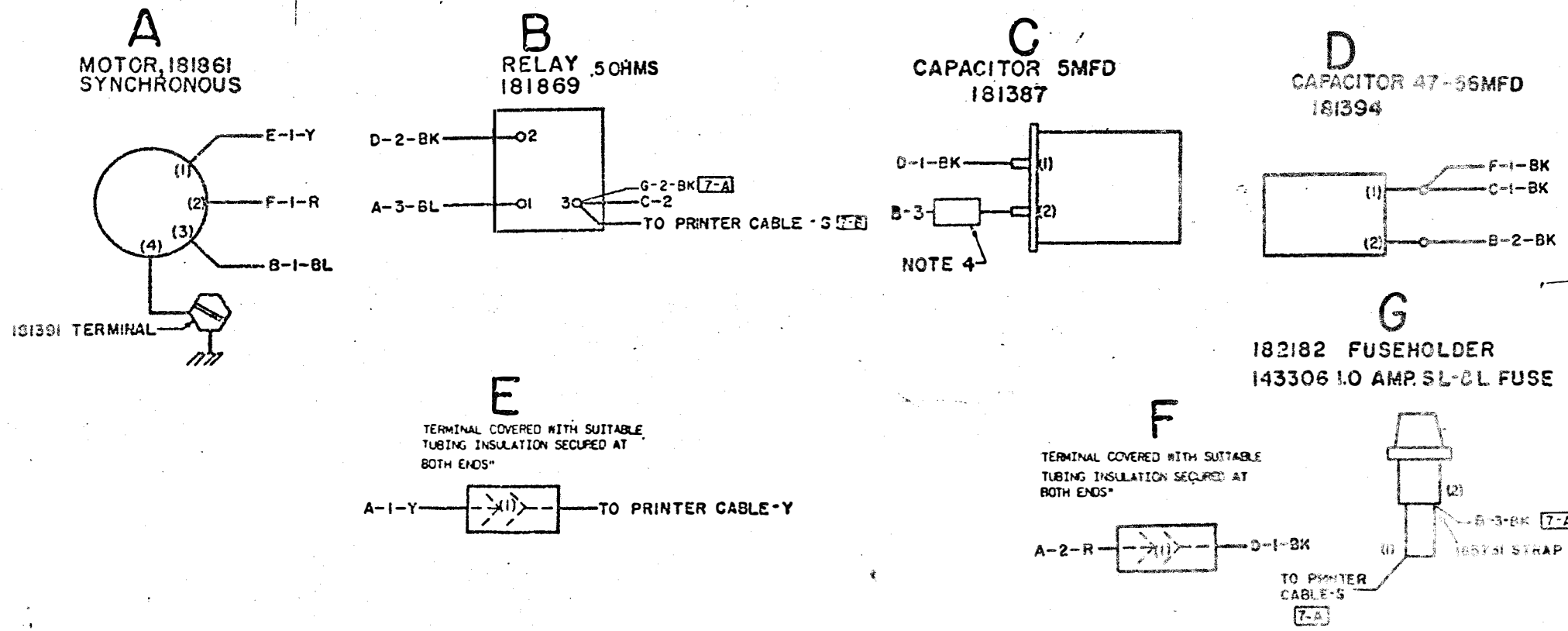
MOTOR	FUSE VALUE	FUSE PART NO.
182277	2.0 AMP	138538
182267	1.0 AMP	320246

7. AA FUSEHOLDER, FUSE AND AB TERMINAL CONNECTION ADDED TO 333521 A.C. SERIES MOTOR AT ISSUE 4 OF SHEET 3.

ACTUAL WD FOR 181361 MOTOR (60 HERTZ)



ACTUAL WD FOR 181861 MOTOR (60 HERTZ)



NOTE: REVISION INFORMATION MUST ALSO BE REFLECTED ON THE ISSUE CONTROL RECORD, WHICH IS A PART OF THIS DRAWING. SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS D.P.

SHEET 1

ACTUAL WIRING DIAGRAM FOR

FOR MODEL 32 & 33 MOTORS

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 4405WD

DATE 2-8-62

P.D. FILE NO. 1-201 183AA

DESIGN CHKD.

PROD. P.R.S. APPD.

TELETYPE CORPORATION

4405 WD

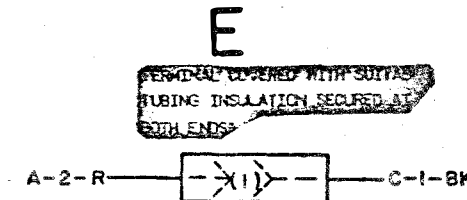
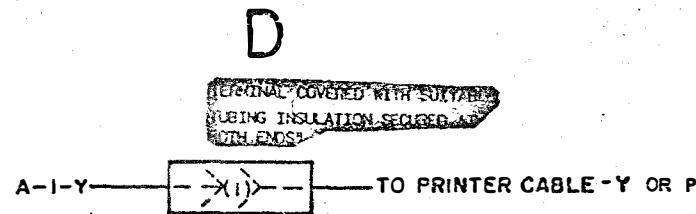
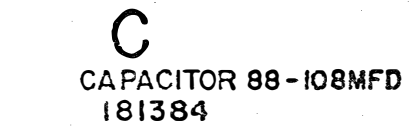
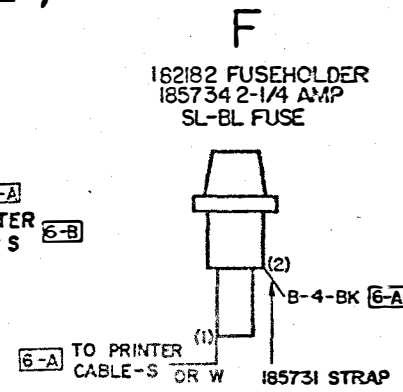
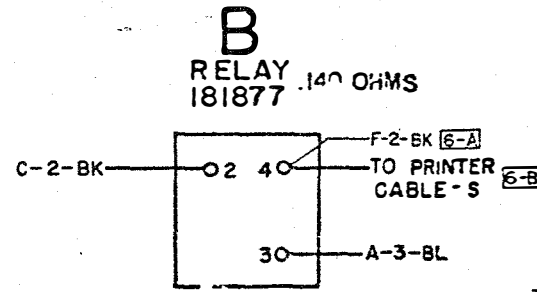
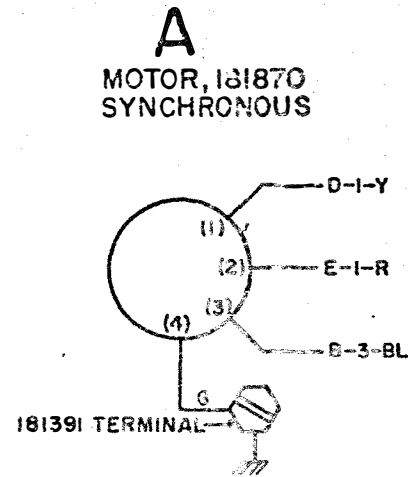
NOTE:
REVISION INFORMATION MUST ALSO BE
REFLECTED ON THE ISSUE CONTROL REC-
ORD, WHICH IS A PART OF THIS DRAWING.

4405WD

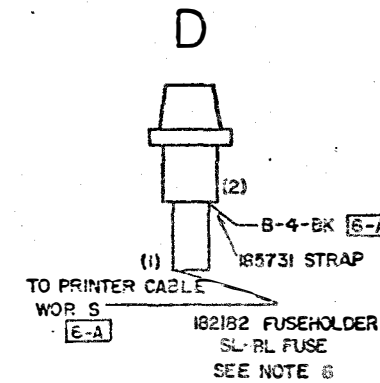
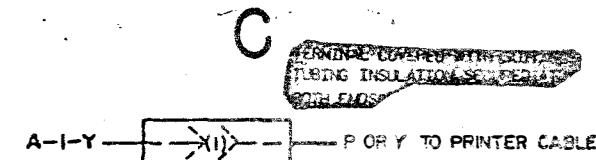
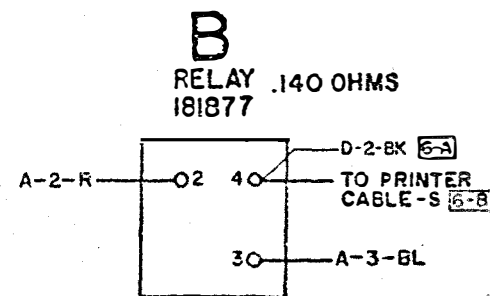
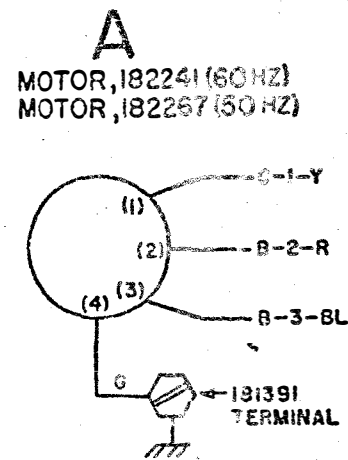
REVISIONS

ISSUE	DATE	AUTH. NO.
A2	3-3-62	30-975
B3	11-5-62	30-5329
C4	1-3-63	30-5459
D5	11-11-63	72856
6	5-9-64	81773
7	6-8-65	87010
8	1-13-66	88841-3
9	3-9-66	89721-2
10	1-25-67	92607
11	2-18-70	99947-4
12	8-24-70	621
13	12-9-70	2145
14	12-14-70	2220

ACTUAL WD FOR
181870 MOTOR (60 HERTZ)



ACTUAL WD FOR 182241 MOTOR (60 HERTZ)
ACTUAL WD FOR 182267 MOTOR (50 HERTZ)



SEE ISSUE CONTROL RECORD FOR COMPLETE LIST OF SHEETS COMPRISING THIS W.D.

SHEET 2

ACTUAL WIRING DIAGRAM

FOR MODEL 32 & 33 MOTORS

APPROVALS

D AND R *[Signature]* E OF M *[Signature]*

E-NUMBER

PROD. NO. 4405WD

DATE 3-8-62

R.D. FILE NO. 1-231.153AA

DRAWN R.H.S. CHKD. *[Signature]*

ENGD. P.R.S. APPD. *[Signature]*

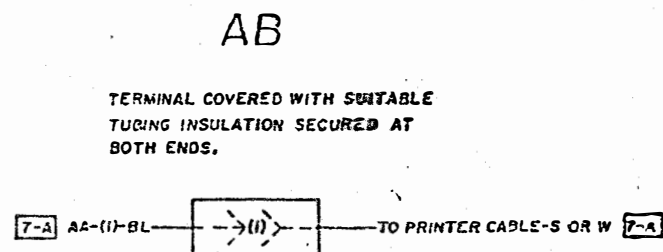
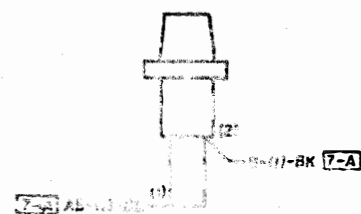
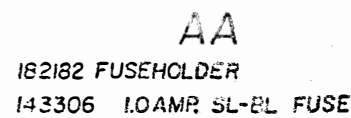
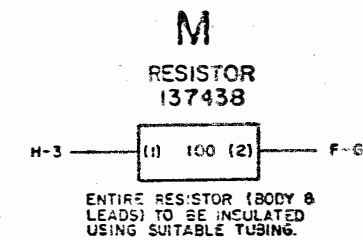
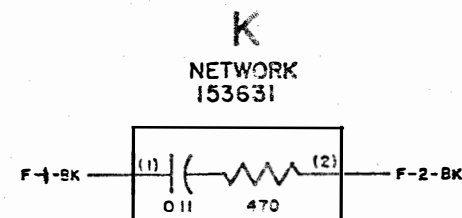
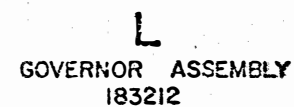
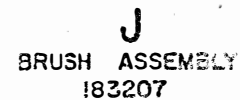
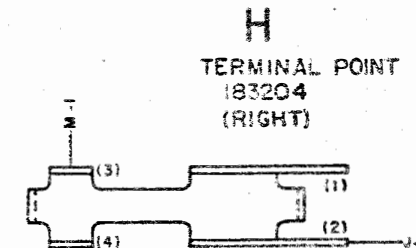
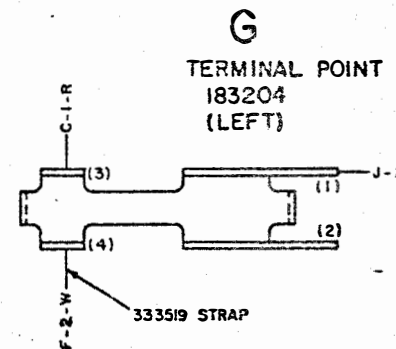
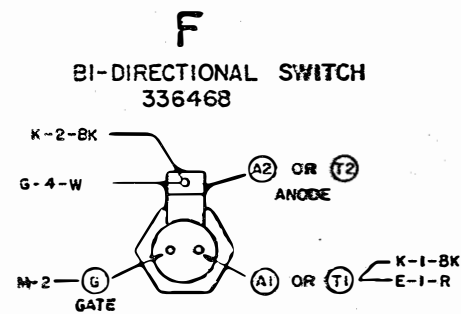
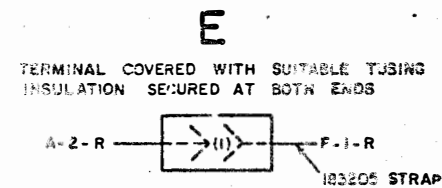
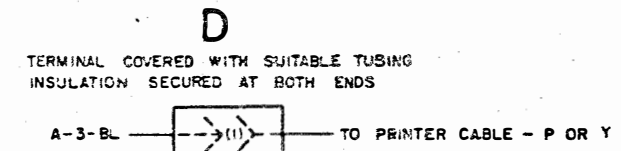
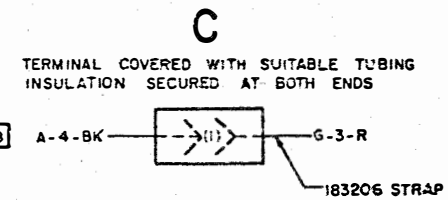
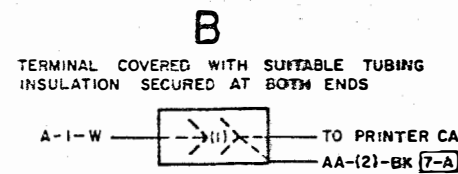
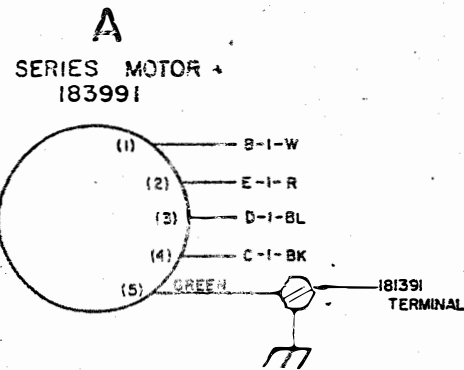
TELETYPE CORPORATION

4405WD

ACTUAL WD FOR
333521 AC SERIES MOTOR

NOTE:
REVISION INFORMATION MUST ALSO BE
REFLECTED ON THE ISSUE CONTROL RES.
NO. WHICH IS A PART OF THIS DRAWING.

REVISIONS		
ISSUE	DATE	AUTH. NO.
2	12-14-70	2220
3	11-19-71	4539
5	9-17-76	16760



SEE ISSUE CONTROL RECORD FOR COM-
PLETE LIST OF SHEETS COMPRISING THIS

SHEET 3

ACTUAL
WIRING DIAGRAM
FOR MODEL 32/33
MOTORS

APPROVALS

PROJ. DIR.	ENGR. A. S.	DSGNER. A. S.
MFG. REL. CONPL.	DATE 10-1-70	
R & B FILE 1-231.153AA		
S-NUMBER		

TELETYPE

4405WD

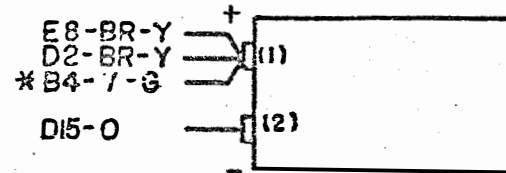
A
B
C
D
E

4970 WD

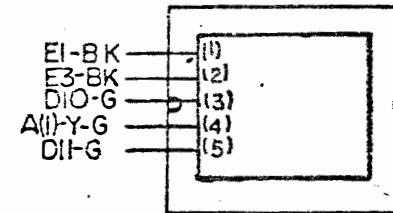
ISSUE	DATE	AUTH. NO.
2	8-15-62	301285
3	8-15-63	77001
4	1-31-64	78903
5	5-10-63	95823-4
6	1-14-71	736

- NO. NOTES
- WIRING CODE
 - SEE 4979WD FOR SCHEMATIC WIRING DIAGRAM
 - USE CABLE 181818
 - * DENOTES #20 AWG WIRE. ALL OTHERS #24AWG
 - SOME 182695 UNITS CONTAIN 330793 OR 182722 TRANSFORMER AND 182696 CABLE WITH 182536 CONNECTOR.
SOME 181815 UNITS CONTAIN 330793 OR 182722 TRANSFORMER

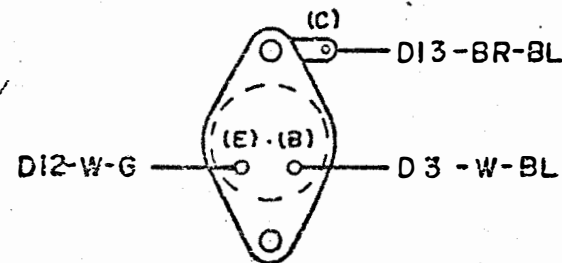
A
CAPACITOR FILTER
(182501)



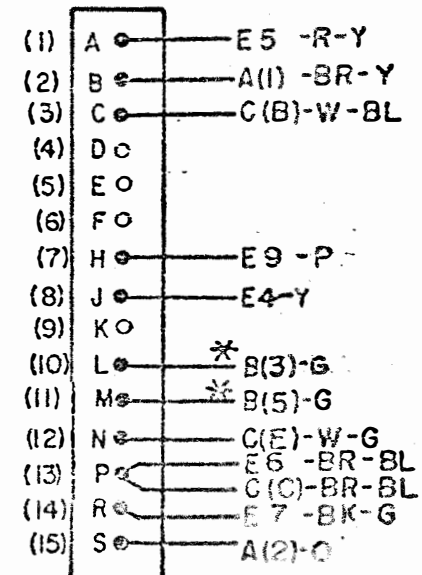
B
TRANSFORMER, POWER
(337992) 50/60 Hz
NOTE 5



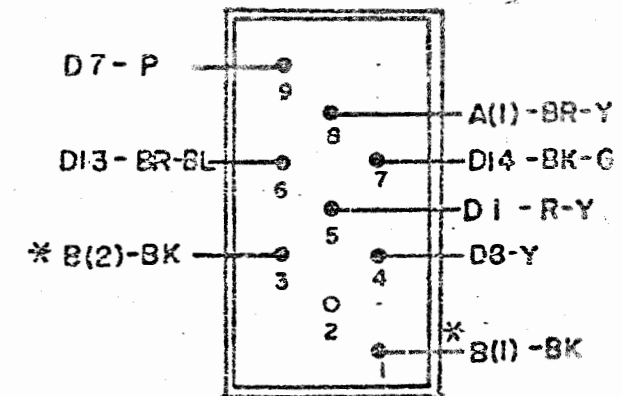
C
TRANSISTOR, POWER
(181675)



D
CONNECTOR, CARD
(181819)
NOTE 5



E
CONNECTOR, RECEPTACLE
(182716)



WDP

ACTUAL WIRING DIAGRAM FOR 182695 & 181815 SELECTOR MAGNET DRIVER

APPROVALS

D AND R E OF M

E-NUMBER

PROD. NO. 4970 WD

DATE 6-22-62

P.D. FILE NO. 1-165.153AA

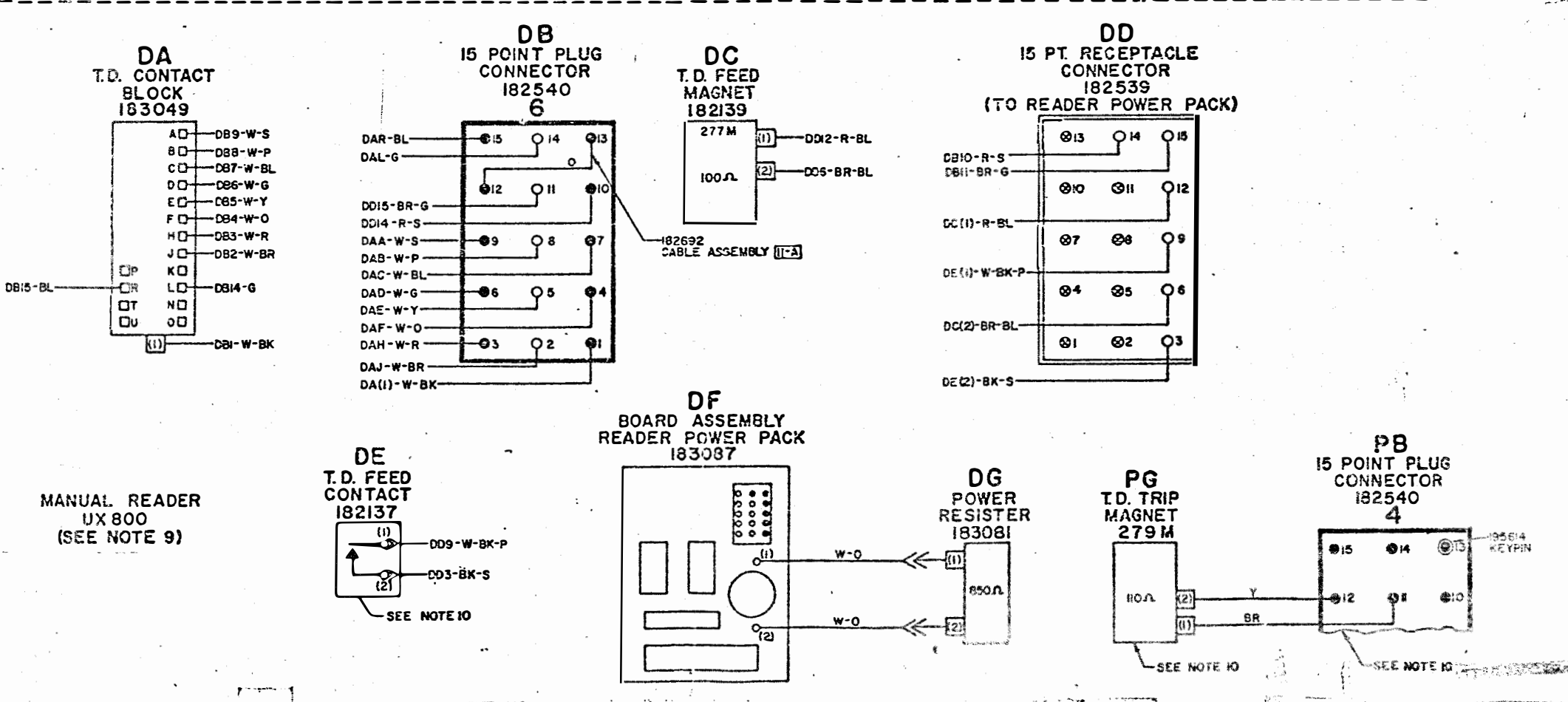
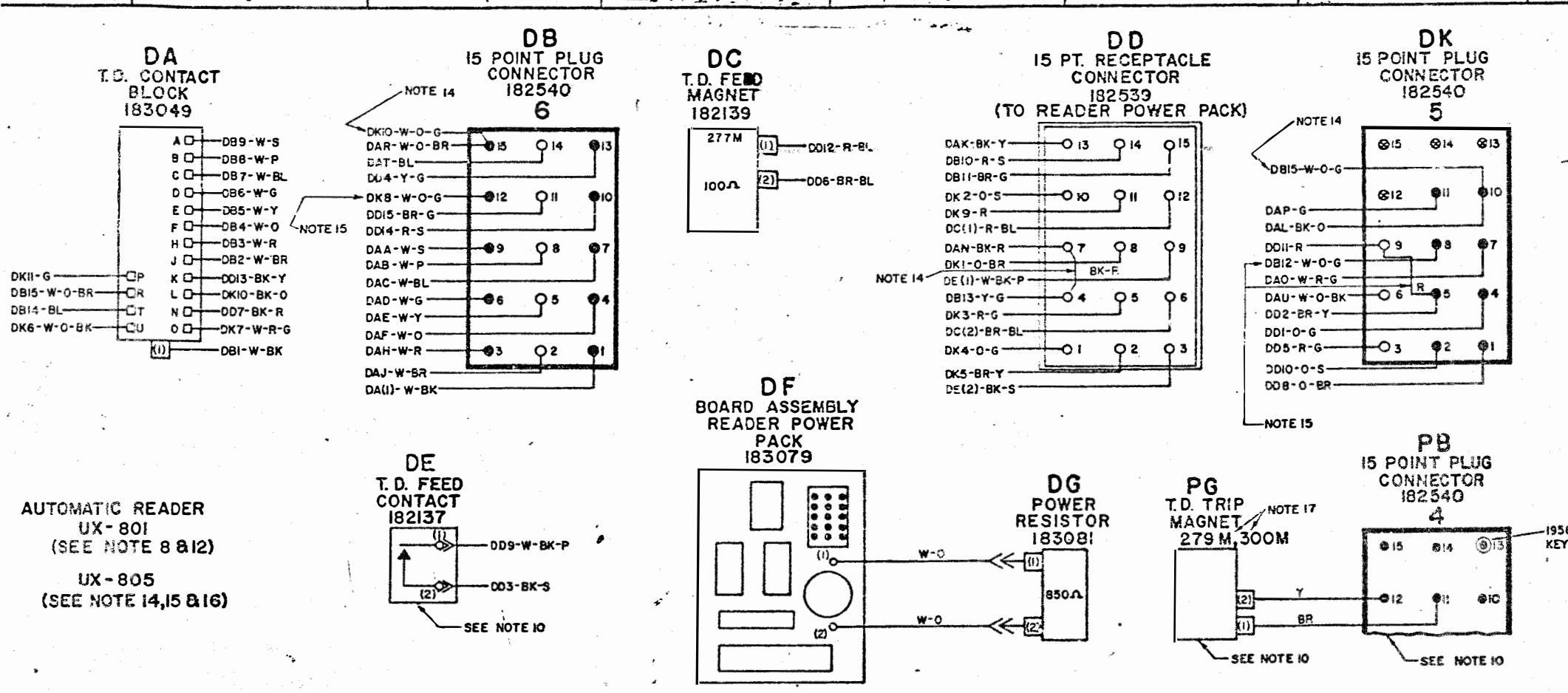
DRYAN C.A. CHKDYH

ENGR. P.R.S. IAPPD

TELETYPE CORPORATION

4970 WD

- NO. NOTES**
1. WIRING LEGEND:
DISTANT TERMINATING AREA
DISTANT TERMINATING DESIGNATION
COLOR CODE
B4-BL
 2. WIRE COLOR CODE:
W-WHITE BL-BLUE
BK-BLACK BR-BROWN
O-ORANGE P-PURPLE
Y-YELLOW S-SLATE
G-GREEN M-RED
 3. TERMINALS DESIGNATED () DO NOT APPEAR ON COMPONENT
 4. FOR TELETYPE PERSONNEL REFERENCES: SPECIFICATION 8042S
 5. CONNECTORS VIEWED FROM WIRED END.
 6. FOR SCHEMATIC WIRING DIAGRAM SEE 7887WD OR 8159WD.
 7. ASSOCIATED UNIT ACTUAL WIRING DIAGRAMS
7884WD PRINTER-UP800,801,802,803,820
7885WD KEYBOARD-UK300,804
7886WD MOTOR
7888WD CALL CONTROL-UCC-3
4970WD SELECTOR MAGNET DRIVER
8158WD CALL CONTROL-UCC-26
8160WD PRINTER-UP-856
 8. OPTIONAL UX-801 AUTOMATIC READER-183075 CABLE ASSEMBLY. USED ONLY WITH UP801,803,820 PRINTER ASSEMBLIES.
 9. MANUAL READER UX800 183074 CABLE ASSEMBLY. USED ONLY WITH UP801,803 PRINTER ASSEMBLIES.
 10. THESE COMPONENTS ARE MOUNTED ON UP801,803,820 PRINTER ASSEMBLIES BUT ACTUALLY ARE PART OF READER CIRCUIT. SEE PRINTER 7884WD.
 11. 182692 CABLE ASSEMBLY (STRAP) NOT REQUIRED WHEN UX800 IS USED WITH EARLY STYLE (BEFORE UCC-3 WIRING CHANGED TO ACCOMMODATE UX801 FACILITIES) UCC-3 CALL CONTROL UNITS WITHOUT WIRES IN POSITION 12 AND 13 OF MATING CALL CONTROL RECEPTACLE CONNECTOR NO. 5.
 12. SEE PRINTER 7884WD FOR MODIFICATION TO UP801,803 PRINTER ASSEMBLIES TO PROVIDE AUTOMATIC READER CONTROL OPTIONS.
 13. WIRING STATUS:
RECTANGULAR BOX INDICATES HISTORY OF WIRING CHANGES
NOTE NUMBER ENTERED THE PRODUCT.
B - DENOTES WIRING BEFORE THE CHANGE DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT.
A - DENOTES WIRING AFTER THE CHANGE DESCRIBED BY THE DESIGNATED NOTE ENTERED THE PRODUCT.
 14. ASSOCIATED WITH THE UX-805 ONLY.
 15. THERE WIRES DO NOT APPEAR ON UX-805
 16. AUTOMATIC READER UX-805 186340 CABLE ASSEMBLY.
 17. 279M-40VAC-110Ω
300M-115VAC-780Ω



7887 WD

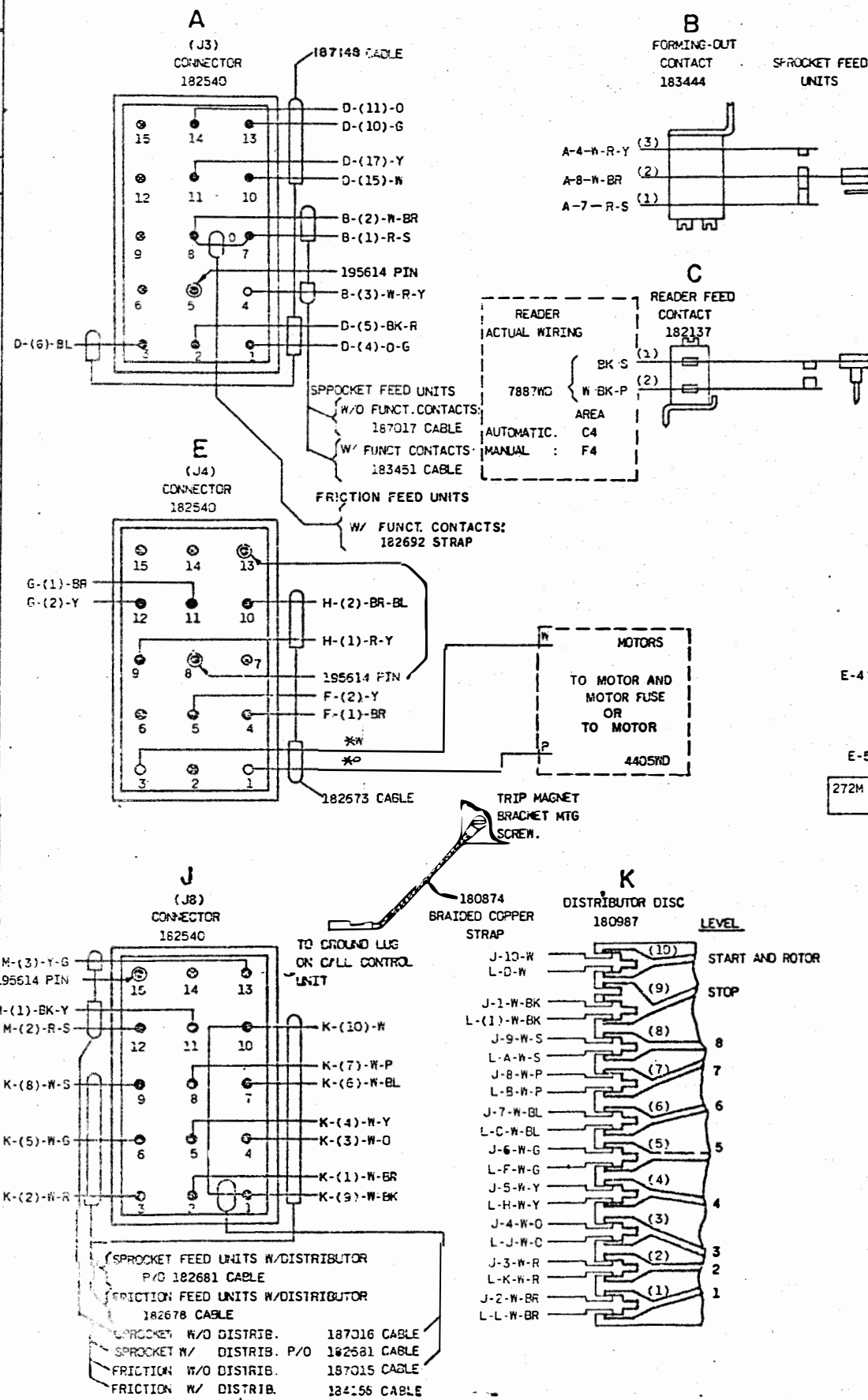
REVISIONS		
ISSUE	DATE	AUTH. NO.
1	4-25-66	17470-R
2	11-3-66	92300-RC
3	1-31-68	95171
4	1-12-72	4853-RC

7887 WD

ACTUAL WIRING DIAGRAM FOR MODEL 33 8 LEVEL MANUAL OR AUTOMATIC TRANSMITTER DISTRIBUTOR (TAPE READER) UX-800-MANUAL READER, UX-801-AUTOMATIC READER, UX-805-AUTOMATIC READER

APPROVALS	
D AND R	E OF M
[Signature]	[Signature]
E-NUMBER	
PROD. NO. 7887 WD	
DATE 8-2-65	
P.D. FILE NO. G-A152 AA	
DRAWN P.H.B.	CHKD. J.E.L.
ENGD. J.W.S.	APPD. G.A.L.
TELETYPE CORPORATION	
7887 WD	

1. 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.
2. WIRE COLOR CODE:
BK-BLACK G-GREEN
BR-BROWN BL-BLUE
R-RED P-PURPLE
O-ORANGE S-SLATE
Y-YELLOW W-WHITE
3. COMPONENT VIEWS SHOWN FROM WIPED SIDE.
4. SYMBOLOLOGY:
() TERMINAL DESIGNATION WITH IN IS FOR REFERENCE AND IS NOT MARKED ON THE COMPONENT.
* DENOTES 2-BANG WIRE ALL OTHER IS 2-BANG WIRING LEGEND:
DISTANT TERMINATING AREA
DISTANT TERMINATING TERMINAL
WIRE COLOR (1, 2, OR 3 COLORS)
J-1-W-B
CONNECTORS:
NO PIN
FEMALE PIN
MALE PIN
BLOCKING PIN
HALF WITH LARGER PERIMETER SHELL DESIGNATED J
HALF WITH SMALLER PERIMETER SHELL DESIGNATED P
5. REFER TO 1180SD FOR A RELATED SET SCHEMATIC DIAGRAM.
6. CROSS REFERENCE:
THIS WIRING DIAGRAM SAME AS 9E87WD EXCEPT FOR AREA DESIGNATIONS.
7. PAPER ALARM SWITCH "M" (SPROCKET FEED) CHANGED FROM CONTACT PILE TO SNAP ACTION SWITCH AT ISSUE 5 OF THIS DRAWING.



REVISIONS		
ISSUE	DATE	AUTH. NO.
1	7-7-71	2643R
2	8-1-71	4243-RC
3	1-12-72	4853-RC
4	1-17-72	4455
5	2-28-74	8553-1

WIRING DIAGRAM FOR MODEL 33 TYPING UNITS
UP 1-1-71
UP 2-1-71

APPROVALS
PROJ. SUPV. *[Signature]*
PROJ. ENG. *[Signature]*
MFG. REL. COMPL. *[Signature]*
ENGR. OR DSGNR.
DRN. NO. DATE 6-13-71
R&P FILE 6-A152.219A
S-NUMBER 51.910

TELETYPE

9335 WD

SHEET INDEX

CONTENTS	SHEET NO.	ISSUE NO.																									SHEET NO.		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		26	27
SHEET INDEX AND NOTES	A1	1	2	3	4	5																							A1
MODEL 33 CALL CONTROL UNIT UCC 6 WIRING	B1	1	2	3	3	4																							B1
MODEL 33 CALL CONTROL UNIT UCC 6 WIRING (UNITS WITH CABLE WIRING)	B2	1	2	3	4	5																							B2
MODEL 33 CALL CONTROL UNIT UCC 6 WIRING (UNITS WITH CIRCUIT BOARD WIRING)	B2A			1	2	3																							B2A

SUPPORTING INFORMATION


CATEGORY	NO.
WIRING DIAGRAM PACKAGE FOR MODEL 33 RC, KSR, AND ASR SETS 3300, 3310, 3320 SERIES	NOP 0316

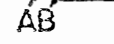

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	6-6-71	21E43R
2	5-23-73	8197
3	11-21-73	8046
4	3-23-74	10712-RC
5	2-12-79	22218

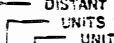

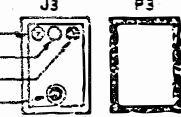
NO. NOTES

1. WIRE COLOR CODE:
 BK - BLACK G - GREEN
 BR - BROWN BL - BLUE
 R - RED P - PURPLE
 O - ORANGE S - SLATE
 Y - YELLOW W - WHITE

2. COMPONENT VIEWS SHOWN FROM WIRED SIDE.

3. SYMBOLOLOGY
 () TERMINAL DESIGNATION WITHIN IS FOR REFERENCE AND IS NOT MARKED ON THE COMPONENT.
 --- ASSOCIATED TERMINALS, CONNECTIONS, OR FUNCTIONS.
 * DENOTES 20 AWG. WIRE.
 ** DENOTES 18AWG WIRE.
 ALL OTHER IS 24AWG.
 WIRE SPLICE (NOT REPRESENTED ON SCHEMATIC)

4. COMPONENT IDENTIFICATION:
 SHEET LOCATION
 (C1) (SCHEMATIC DESIGNATION)
 CAPACITOR - GENERIC PART NAME
 181814 - PART NUMBER
 PART ILLUSTRATION

5. WIRING LEGEND:
 DISTANT TERMINATING AREA
 UNITS WITH CABLE WIRING
 UNITS WITH CIRCUIT BOARD WIRING (WHERE USED)
 DISTANT TERMINATING TERMINAL
 WIRE COLOR (1, 2 OR 3 COLORS)
 BA, CA - 3-0
 CONNECTORS:

 NO PIN
 FEMALE PIN
 MALE PIN
 BLOCKING PIN
 HALF WITH LARGER PERIMETER SHELL DESIGNATED J
 HALF WITH SMALLER PERIMETER SHELL DESIGNATED P

6. ALL WIRING PART OF 181820 CABLE ASSEMBLY EXCEPT WHERE OTHERWISE SPECIFIED.

7. REFER TO 1180SD FOR A RELATED SET SCHEMATIC DIAGRAM.

8. 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.

9. CUSTOMER OPTIONS:
 THIS UNIT CONTAINS WIRING OPTIONS FOR INTERFACING A 20MA OR 60MA DC CURRENT SIGNAL LOOP AS WELL AS INTERFACING IN A HALF DUPLEX (TWO WIRE) OR FULL DUPLEX (4 WIRE) CONFIGURATION.
 20 AND 60MA SIGNALLING CURRENT OPTION WIRING APPEARS AT THE COMPONENTS DESIGNATED AC AND BL.
 HALF AND FULL DUPLEX OPTION WIRING APPEARS AT COMPONENT BL.
 OPTION WIRING SHOULD BE CONNECTED AS INDICATED FOR THE DESIRED OPTION.
 THIS UNIT HAS BEEN PRE-WIRED AT THE FACTORY FOR 60MA DC, HALF DUPLEX OPERATION.

10. REFER TO 4970WD FOR WIRING OF 181815 SELECTOR MAGNET DRIVER ASSEMBLY WHICH IS ALSO PART OF THIS UNIT.

SHEET INDEX NOTES

- WHEN CHANGES ARE MADE IN THIS DRAWING ONLY THOSE SHEETS AFFECTED WILL BE REISSUED.
- THIS SHEET INDEX WILL BE REISSUED AND UPDATED EACH TIME ANY SHEET OF THE DRAWING IS REISSUED OR A NEW SHEET IS ADDED.
- THE LAST COMPLETED COLUMN INDICATES THE LATEST ISSUE NUMBER OF THE SHEET INDEX.
- SHEETS THAT ARE NOT CHANGED WILL RETAIN THEIR EXISTING ISSUE NO.
- ISSUE DATES WILL BE SHOWN ON THE SHEET INDEX ONLY.

WIRING DIAGRAM FOR MODEL 33 CALL CONTROL UNIT UCC 6

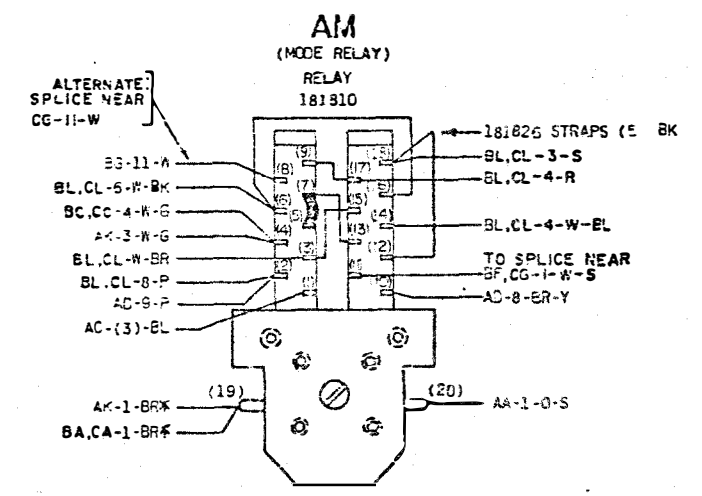
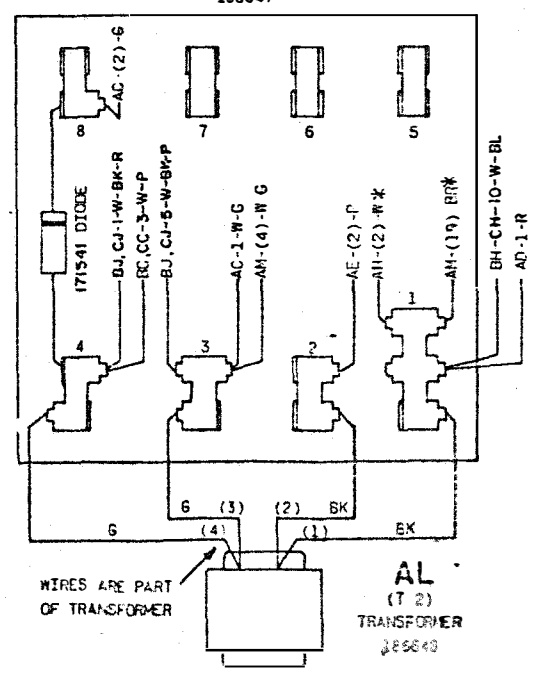
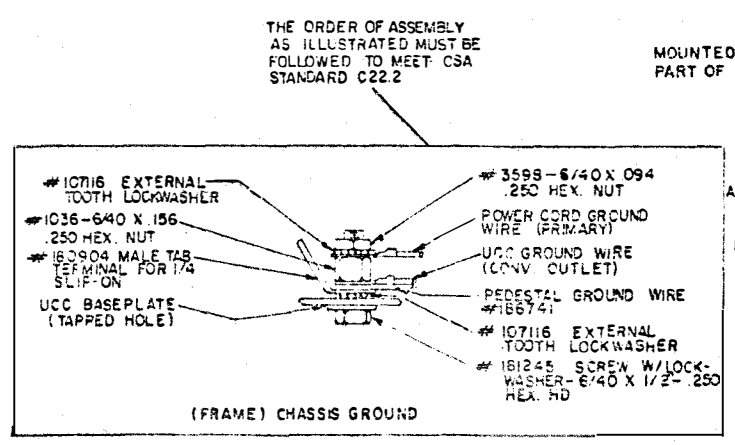
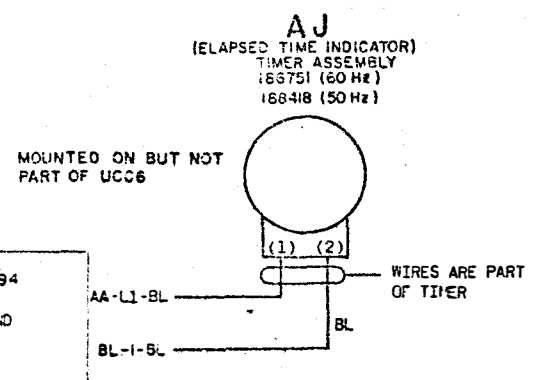
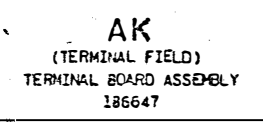
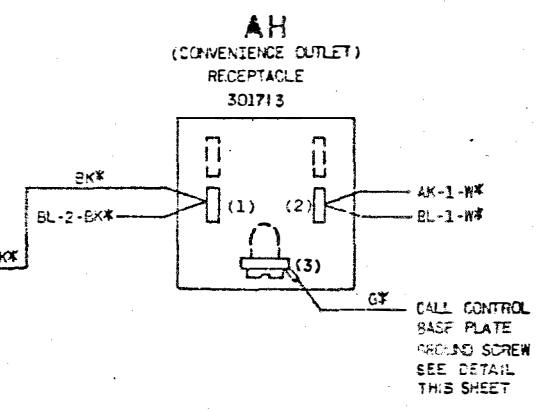
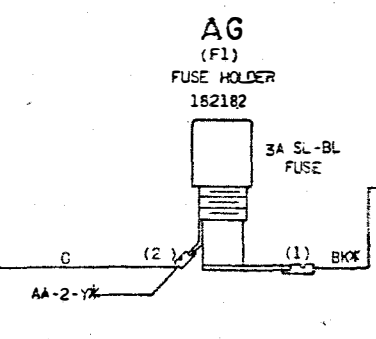
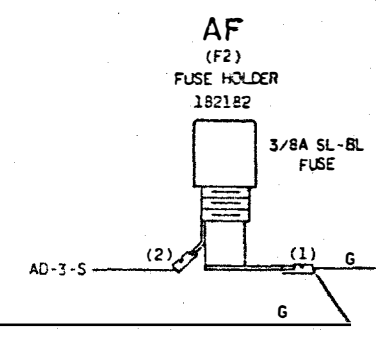
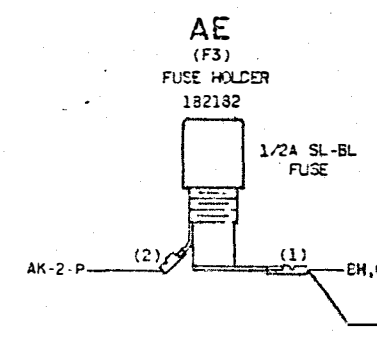
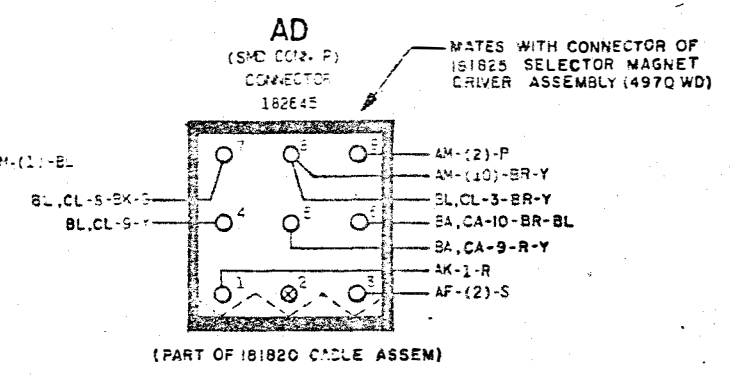
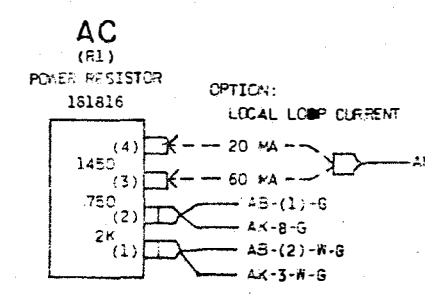
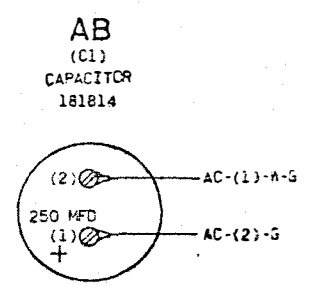
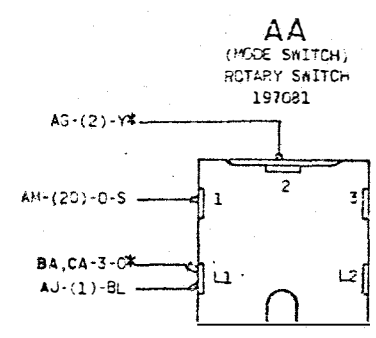
APPROVALS

PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
DJE	PRS	LMM
ENGR. OFD DSGNR.		
DRN. S.L.D. DATE 6-2-71		
R&D FILE 6-A152-219A		
S-NUMBER 61-910		

TELETYPE

9336WD-A1

REVISIONS		
ISSUE	DATE	AUTH. NO.
1	8-2-73	21643R
2	5-12-73	8187
3	11-21-73	8046
4	2-2-73	8221B



WIRING DIAGRAM FOR
MODEL 33
CALL CONTROL UNIT
UCC 6

APPROVALS

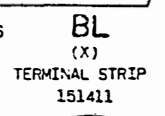
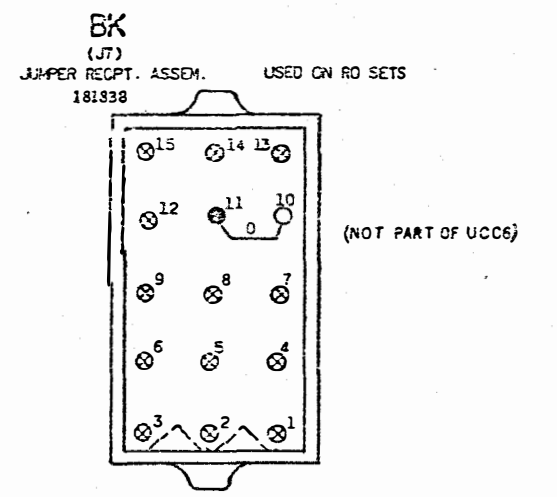
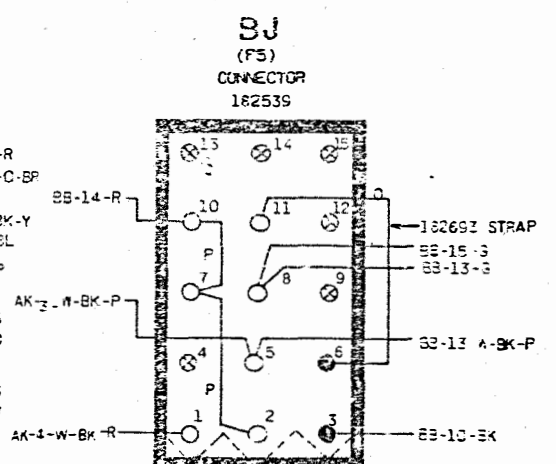
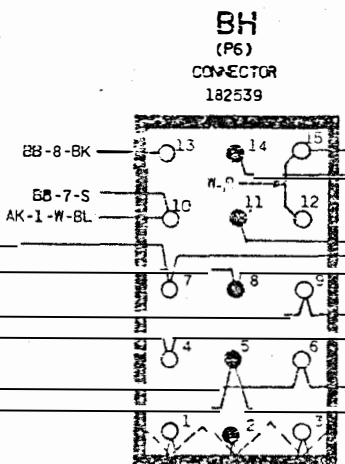
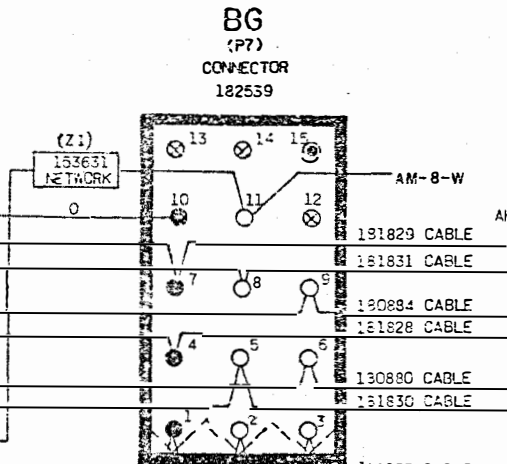
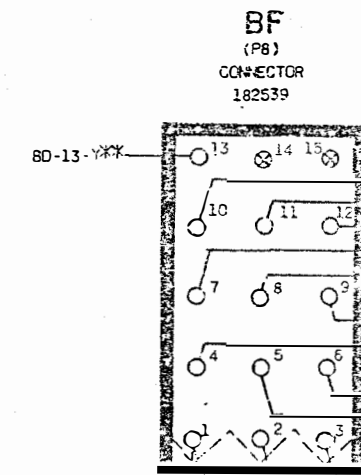
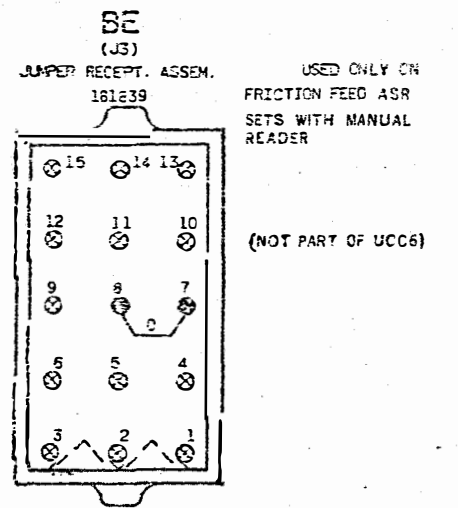
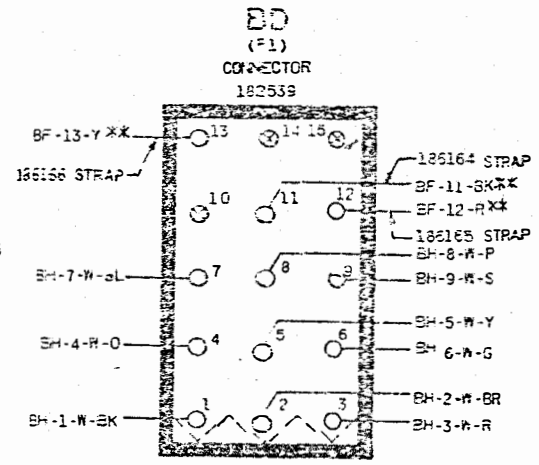
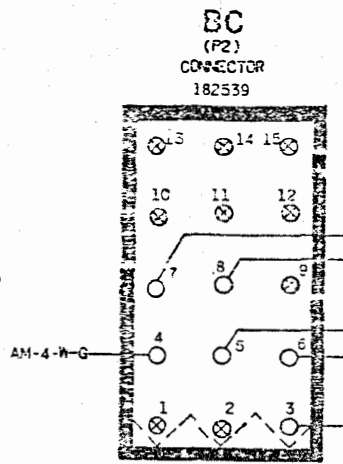
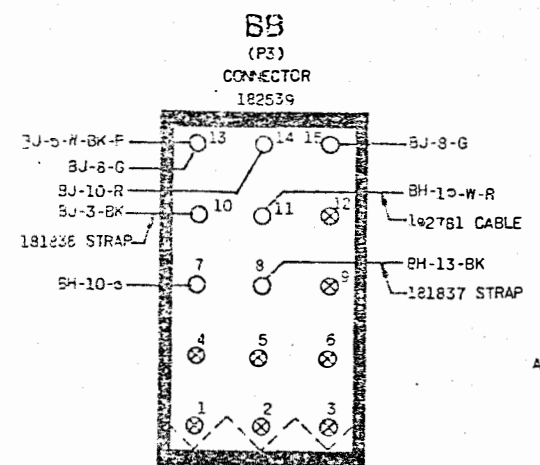
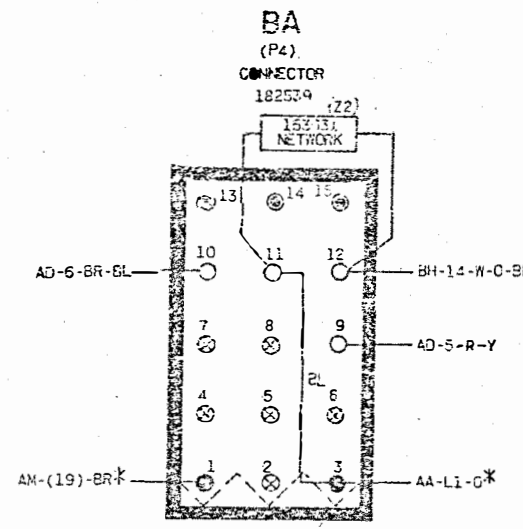
PROJ. SUPV.	PROJ. DIR.	MFG. REL. COMPL.
DR	RRS	AW
ENGR. CDD	DSGWR	
DRN. S.L.C. DATE		
R&D FILE 6-A152-219A		
S-NUMBER 61.010		

TELETYPE

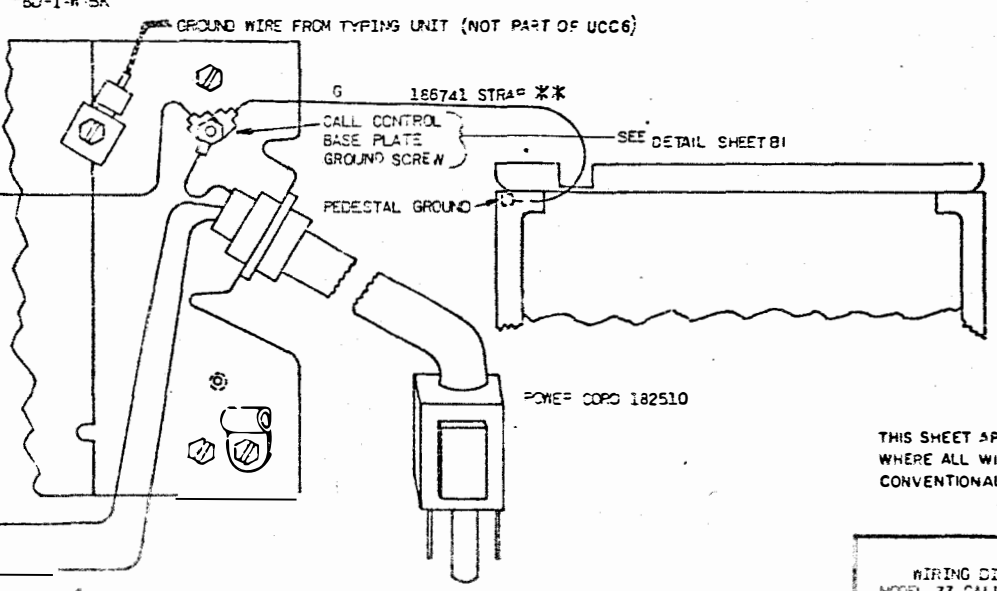
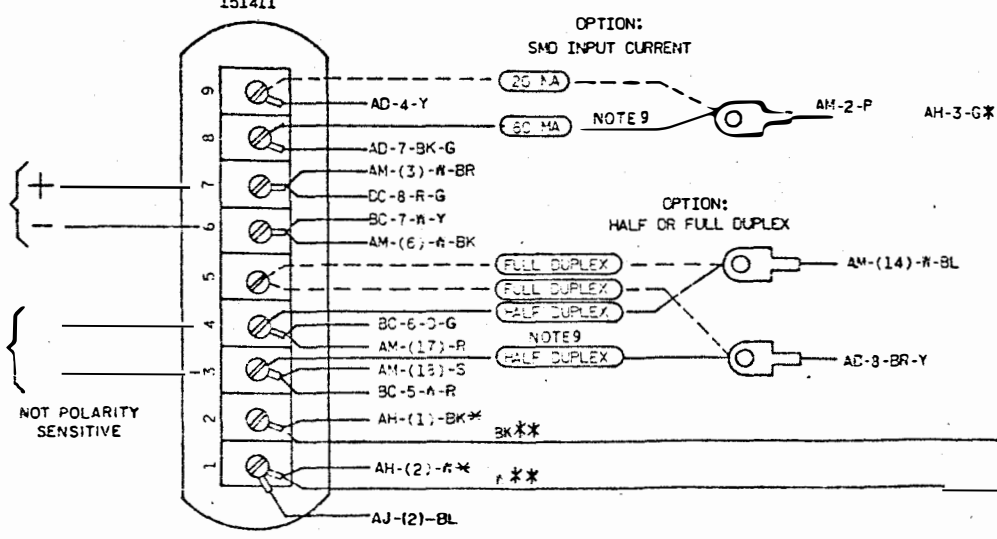
9336WD-B1

UNITS WITH CABLE WIRING

ISSN
1
2
3
4
5



CUSTOMER SIGNAL INTERFACE	
HALF DUPLEX	FULL DUPLEX
RECEIVE AND SEND	RECEIVE
NOT USED	SEND



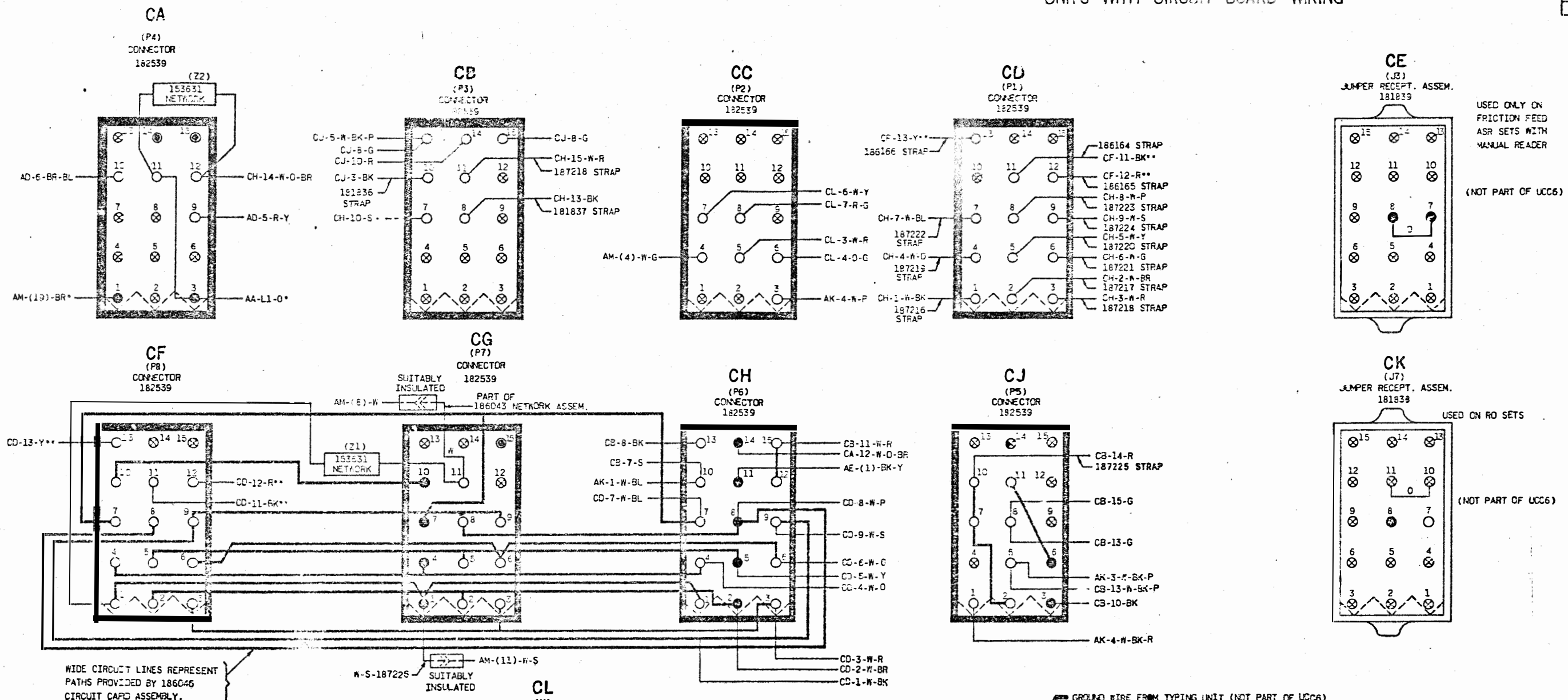
THIS SHEET APPLIES TO EARLIER UNITS WHERE ALL WIRING WAS PROVIDED BY CONVENTIONAL CABLES.

WIRING DIAGRAM FOR MODEL 33 CALL CONTROL UNIT UCC 6

TELETYPE

 9336WD-BR

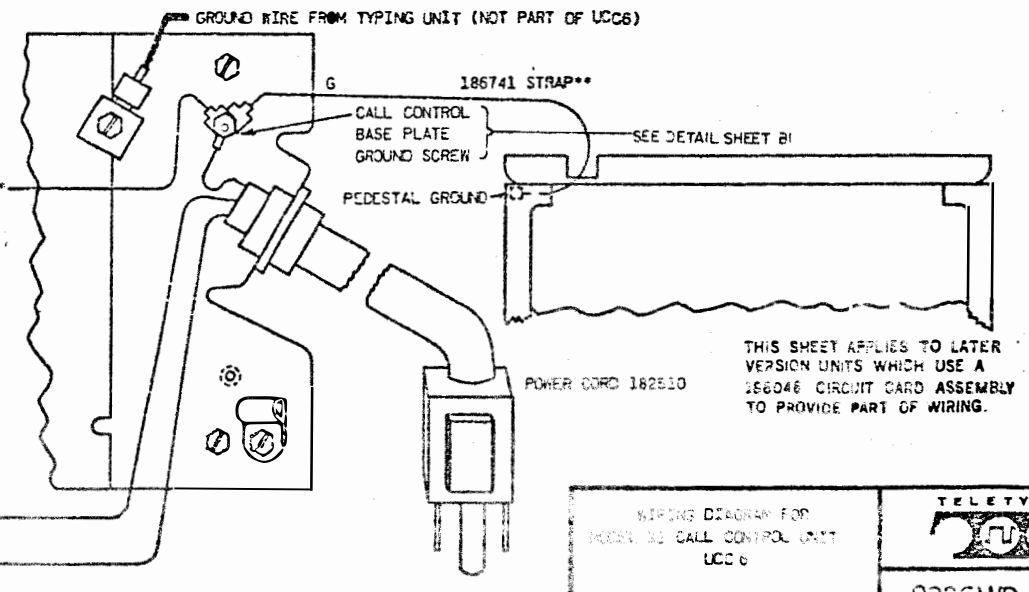
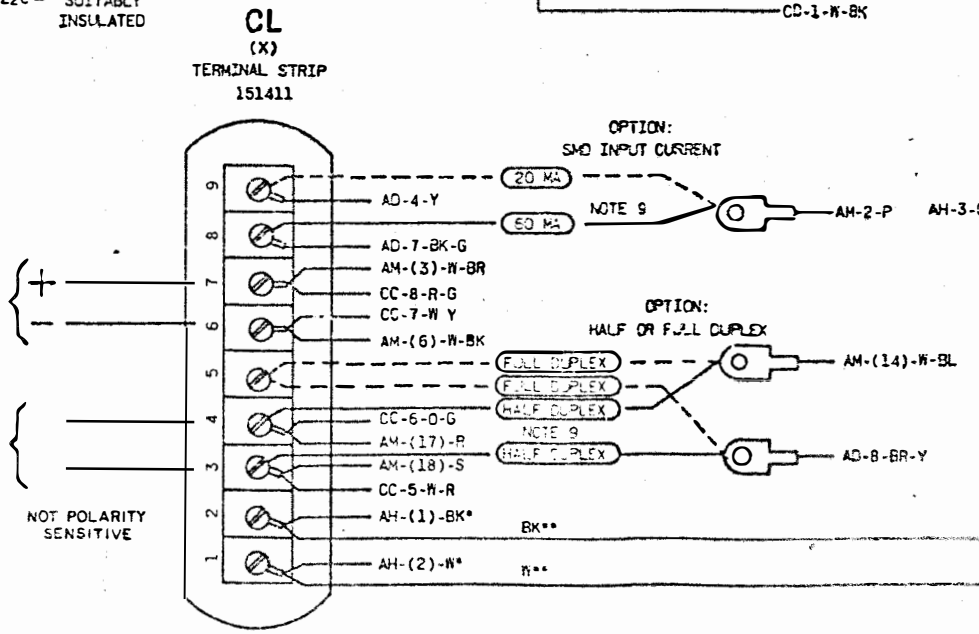
UNITS WITH CIRCUIT BOARD WIRING



WIDE CIRCUIT LINES REPRESENT PATHS PROVIDED BY 186046 CIRCUIT CARD ASSEMBLY.

CUSTOMER SIGNAL INTERFACE

HALF DUPLEX	FULL DUPLEX
RECEIVE AND SEND	RECEIVE
NOT USED	SEND



WIRING DIAGRAM FOR MODEL 33 CALL CONTROL UNIT LCC 6

TELETYPE

9336WD-B2A

NO	NOTES
1	MASTER ARTWORK NO. 181821AW FOR PRINTING SCREEN IS AVAILABLE IN R&D OFFICE SERVICE SECTION.
2	WAYE REV. 5, 6, 7, 8 - 1/32 TO 1 1/8" ABOVE CIRCUIT CARD
3	TO FACILITATE MANUFACTURE THE COMPONENT LAYOUT WAS CHANGED INCLUDING R4 AND CR-5 WHICH WAS CHANGED FROM VERTICAL MOUNTING AND THE ADDITION OF 335470 OR RM-39550 STRAP.
4	CR1, CR2-182520 (IN3193) AND CR3, CR4 - 181015 (IN480) WERE REPLACED FOR STANDARDIZATION.
5	TO FACILITATE MANUFACTURE, Q1 WAS CHANGED FROM 131671. THIS ALSO REQUIRED CHANGING CR5 FROM 178844 VARISTOR (100A) AND ZD1 FROM 182774 (2N4732A 4.7V). SCHEMATIC SYMBOL FOR 178844 HAS AND IT COULD BE INSERTED IN BOARD IN EITHER DIRECTION.

CIRCUIT DESCRIPTION

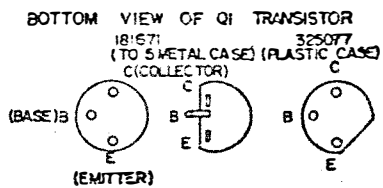
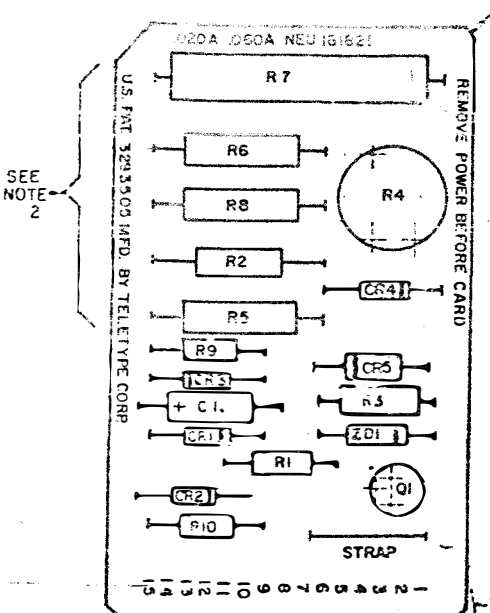
THE SELECTOR MAGNET DRIVER CIRCUIT IS POWERED FROM A SOURCE OF 117 VOLT ALTERNATING CURRENT THROUGH A STEP DOWN ISOLATION TRANSFORMER. DIODES CR1 AND CR2 PROVIDE FULL WAVE RECTIFICATION OF THE REDUCED VOLTAGE TO 120 VOLTS DC AT TERMINAL 15. THE CIRCUIT COMMON IS CONNECTED TO TERMINAL 2 AND A POWER SUPPLY FILTER CAPACITOR IS CONNECTED BETWEEN TERMINALS 2 AND 15.

THE DIRECT CURRENT SIGNAL LINE CIRCUIT IS CONNECTED THROUGH TERMINALS 14 OR 8 AND 2 DEPENDING ON LINE CURRENT. TERMINAL 7 STRAPPED EXTERNALLY TO TERMINAL 14 OR 8, DEPENDING ON LINE CURRENT.

IN THE MARKING CONDITION, Q1 IS OFF-BIASED. WITH Q1 OFF, THE BASE OF Q2 WILL BE CLAMPED AT THE ZENER REFERENCE VOLTAGE BY DIODE CR4. THIS VOLTAGE CLAMP IS THEN TRANSLATED TO CURRENT REGULATION BY THE TRANSISTOR ACTION OF Q2. THE REGULATED MAGNET CURRENT IS ADJUSTED TO 500 AMPERES BY RHEOSTAT R4.

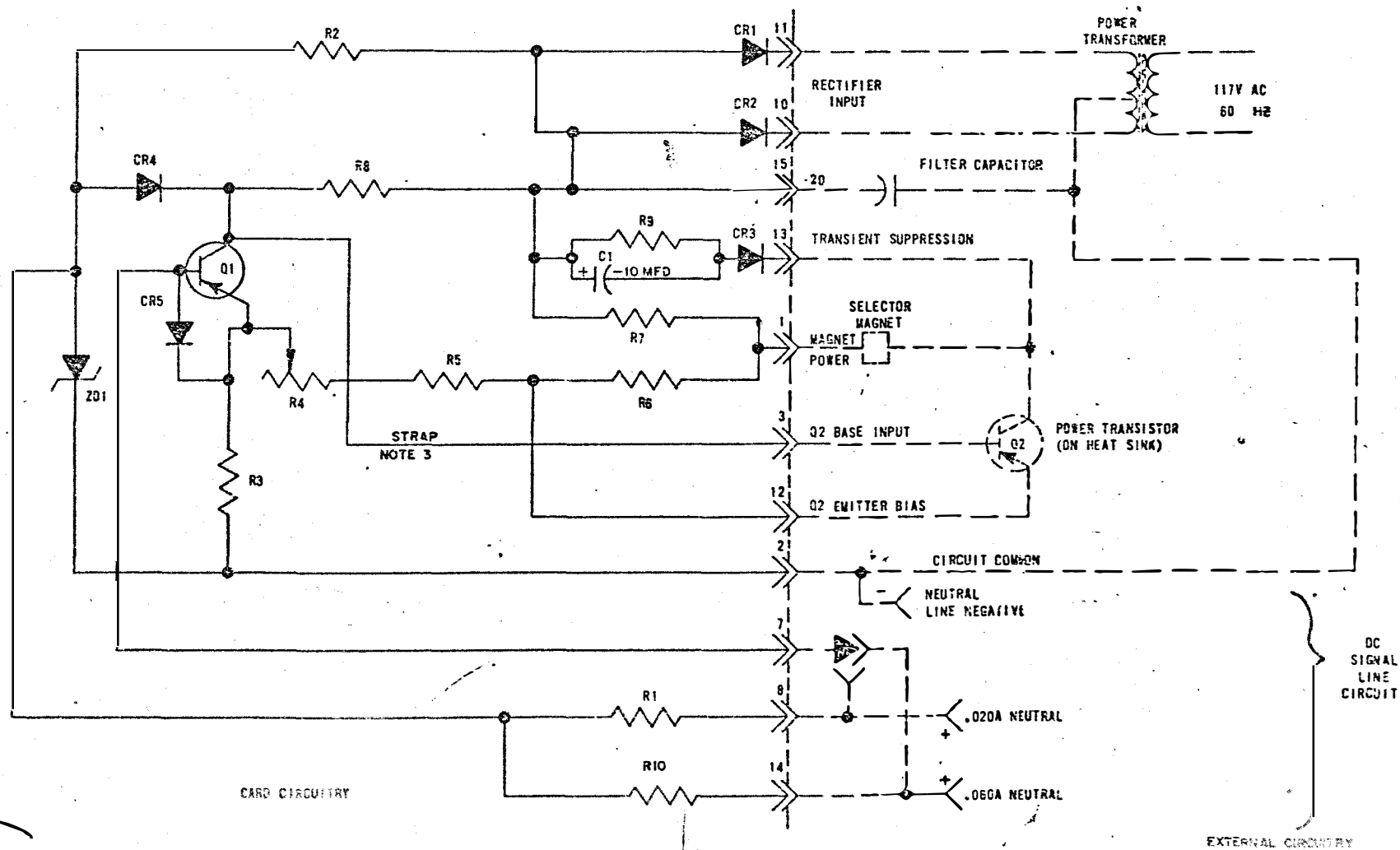
WITH THE SIGNAL LINE IN THE OPEN OR SPACING CONDITION, Q1 IS TURNED ON BY BASE CURRENT SUPPLIED THROUGH RESISTOR R1 ON P.D. THE POTENTIAL AT THE COLLECTOR OF Q1 WILL BE NEAR ZERO OFF-BIASING Q2. WITH Q2 OFF, NO SELECTOR MAGNET CURRENT FLOWS. ALLOWING THE MAGNET TO RELEASE. DURING THE TURN OFF OF Q2 THE INDUCTIVE TRANSIENT DEVELOPED AT THE COLLECTOR IS SUPPRESSED BY THE NETWORK CONSISTING OF CR3, R9 AND C1.

SNAP-ACTION IS SUPPLIED TO THE CIRCUIT TRANSITIONS BY FEEDBACK IN THE EMITTER CIRCUIT OF TRANSISTOR Q1.



UL RECOGNITION SYMBOL REQUIRED PER MR 2001.

CONSTANT CURRENT .500 AMP SELECTOR MAGNET DRIVER



CIRCUIT BOARD EC

REF. DESIG.	TELETYPE PART NO.	TOTAL QTY.	NAME AND DESCRIPTION	LOCATING FUNCTION
R1	182774	1	RESISTOR 470 OHMS 1/2W	DIC AMP SWITCHING LINE
R10	182774	1	RESISTOR 135 OHMS 1/2W	Q30 AMP SWITCHING FOR 020A NEUTRAL LINE
R2	181689	1	RESISTOR 330 OHMS 2.5W	ZENER CURRENT LIMITING
R3	182776	1	RESISTOR 0.82 OHMS 1/2W	COMMON EMITTER BIAS
R4	182773	1	RHEOSTAT 3 OHMS 2.5W	OUTPUT CURRENT ADJUST
R5	181717	1	RESISTOR 8 OHMS 5W	Q2 EMITTER BIAS
R6	182770	1	RESISTOR 20 OHMS 4W	Q2 EMITTER BIAS
R7	182772	1	RESISTOR 14 OHMS 10W	Q2 COLLECTOR LOAD
R8	182627	1	RESISTOR 390 OHMS 4W	Q1 COLLECTOR LOAD
R9	182776	1	RESISTOR 150 OHMS 1/2W	Q2 COLLECTOR TRANSIENT LIMITING
CR1	171841	3	DIODE (NOTE 4)	POWER RECTIFIER
CR2			SAVE AS CR1	POWER RECTIFIER
CR3	197464	2	DIODE (NOTE 4)	COLLECTOR TRANSIENT LIMITING
CR4			SAVE AS CR3	VOLTAGE CLAMPING
CR5			SAVE AS CR1	INPUT PROTECTION
ZD1	312922	1	DIODE ZENER IN4733A 5.1V	REFERENCE
C1	182628	1	CAPACITOR 10 MFD 250 VDC	COLLECTOR TRANSIENT LIMITING
Q1	325077	1	TRANSISTOR 2N4255	INPUT SWITCH
RM39550		1	STRAP	NOTE 3
EC	181823	1	CIRCUIT BOARD, ETCHED	

181821			
REVISIONS			
ISSUE	DATE	AUTH. NO.	
1	4-19-65	88501	
2	9-19-65	888 6	
3	11-25-65	888 5-1	
4	5-5-67	93502	
5	4-2-68	95450	
6	7-5-68	95548	
7	11-6-68	96521	
8	12-20-68	98266	
9	7-3-71	1320	
10	3-29-72	235	
11	3-29-72	236-1	
12	3-29-72	236-1	

NO.	DATE	BY	CHKD.	APPD.
1	4	4	4	6
2	12	12	12	12
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6	12	12	12	12
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8	12	12	12	12
9	12	12	12	12
10	12	12	12	12
11	12	12	12	12
12	12	12	12	12

APPROVALS	
R AND D	E OF M
HJK	
E-NUMBER	
PROC NO. 181821	
DATE 4-28-67	
R&D FILE 2-30-52-1534A	
DRAWN JER-CG	CHKD. N.P.V.
ENGR. AS-PRS	APPD. J.W.
TELETYPE CORPORATION	
181821	

16.	PART NO. REQ.	QTY	DESCRIPTION	FUNCTION
	183083	1	RESISTOR, 22 OHM	SURGE LIMITER
	183092	1	RESISTOR, 12,000 OHM	ARC SUPPRESSOR
R3	118198	1	RESISTOR, 56,000 OHM	BLEEDER
R4	118180	1	RESISTOR, 10,000 OHM	ARC SUPPRESSOR
R5	144464	1	RESISTOR, 220 OHM (NOTE 4)	VOLTAGE DROPPING
C1	163078	1	CAPACITOR, DUAL SECTION A - 200 MFD, 250V DC B - 9 MFD, 200V DC	POWER SUPPLY FILTER SURGE SOURCE
C2	183084	1	CAPACITOR, .22 MFD	ARC SUPPRESSOR
C3	183121	1	CAPACITOR, 15 MFD	FILTER
CR1	312341	6	DIODE, 400V (NOTES)	POWER SUPPLY RECTIFIER
CR2			SAME AS CR1	POWER SUPPLY RECTIFIER
CR3			SAME AS CR1	POWER SUPPLY RECTIFIER
CR4			SAME AS CR1	POWER SUPPLY RECTIFIER
CR5			SAME AS CR1	ARC SUPPRESSOR
CR6			SAME AS CR1	RECTIFIER
F1	143630	1	FUSE, 3/4 A.F.B.	POWER SUPPLY PROTECTION (SEE NOTE 2)
FC	171595	2	FUSE CLIP	
T1	183085	2	TERMINAL WITH WIRE LEAD	
T2			SAME AS T1	
J1	182540	1	CONTACT BLOCK, 15 POINT	
E	182641	15	TERMINAL, MALE P.C.	
EC	183137	1	ETCHED CIRCUIT BOARD	
RYL.1	133089	1	RELAY, 2, 100 OHM	AUTOMATIC READER CONTROL
	151637	2	SCREW, 4-40 FIL. HEAD	
	110743	2	LOCKWASHER, 4-40	
	151880	2	NUT	

- NOTES:
1. MASTER PARTWORK NO. 183079AH FOR PRINTED SCREENING AVAILABLE IN R & D OFFICE SERVICE SECTION.
 2. SOME PREVIOUS CIRCUIT CARD ASSEM. USED 1/2 AFB. 3/4 AFB. IS PREFERABLE.
 3. COMPONENT LAYOUT WAS CHANGED TO ALLOW FOR NEW STYLE CAPACITOR WITH VENT.
 4. R5 CHANGED FROM 470 OHM 2W. TO 220 OHM, 1 WATT ON ASSEM. LATER THAN ISSUE 12. CARD ASSEM. ISSUE 13 AND HIGHER ARE SUITABLE FOR ALL APPLICATIONS. CARD ASSEM. LOWER THAN ISSUE 13 PROVIDE LESS OPERATING MARGIN WHEN USED IN MODEL 33 SETS OR IN MODEL 33 SETS WITH INTEGRAL DATA SETS.
 5. FOR STANDARDIZATION CR1-6 WERE CHANGED FROM 181654.

CIRCUIT DESCRIPTION

THIS POWER PACK CONSISTS OF A 150 VOLT POWER SUPPLY OPERATING DIRECTLY FROM THE 117V AC LINE, A WAVE SHAPING NETWORK, AND AN ARC SUPPRESSOR. IT IS DESIGNED TO OPERATE WITH AN INDUCTIVE LOAD OF APPROXIMATELY 100 OHMS BETWEEN TERMINALS 6 AND 12, WITH A 850 OHM, 40 WATT RESISTOR CONNECTED BETWEEN T1 AND T2.

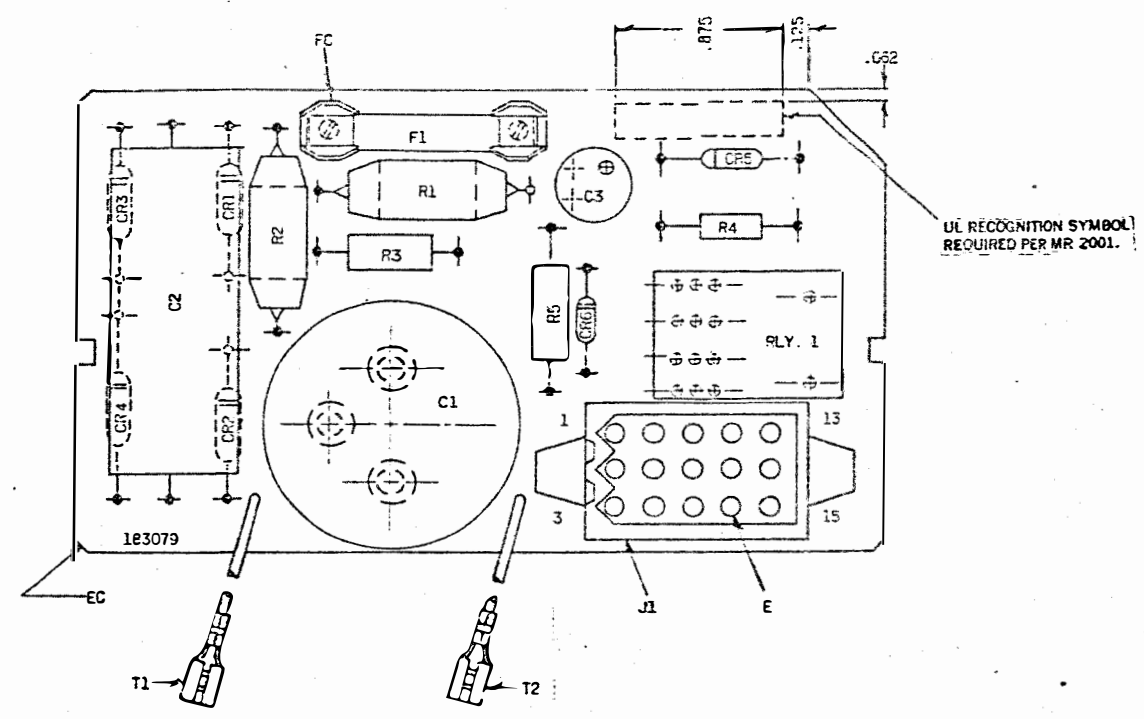
TO FEED SWITCH IS CONNECTED BETWEEN TERMINALS 9 AND 3. THE UNIT IS DESIGNED TO DRIVE THE READER MAGNET IN THE MODEL 33 ASR SET.

TDC RELAY CONTACTS ARE USED FOR AUTOMATIC READER CONTROL. 48V AC INPUT IS RECTIFIED THRU R5 AND CR6 BEFORE REACHING TDC RELAY. CAPACITOR C3 FILTERS TO GROUND THRU COMMON POINT OF TDC1.

SIMILAR TO:

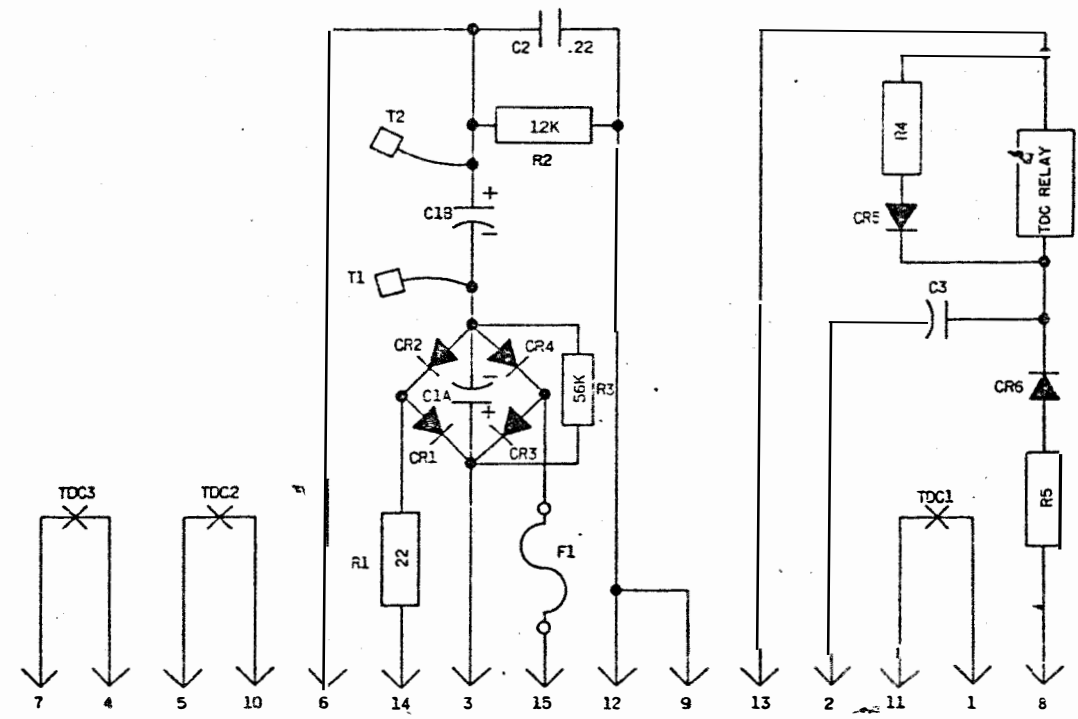
REVISIONS		
ISSUE	DATE	AUTH.
13	1-13-74	4356

REVISIONS					
CUSTOMER IDENTIFICATION	ISSUE	DATE	ASSOCIATED NOTE	ISSUE	CONFIRMANCE DATE
13	B	5		14	12/74



UL RECOGNITION SYMBOL REQUIRED PER MR 2001.

POWER PACK ASSEMBLY W/RELAY



CIRCUIT CARD
EG 183079
POWER PACK ASSEMBLY
W/RELAY

APPROVALS	
PROJ. SUPV.	PROJ. DIR.
ENGR. T.Y.	REGNR.
DRN. F.R.	DATE
E-NUMBER	
SD-CD NO.	
R & D FILE NO. 27	



ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED.

UL RECOGNITION SYMBOL REQUIRED PER MR 2001.

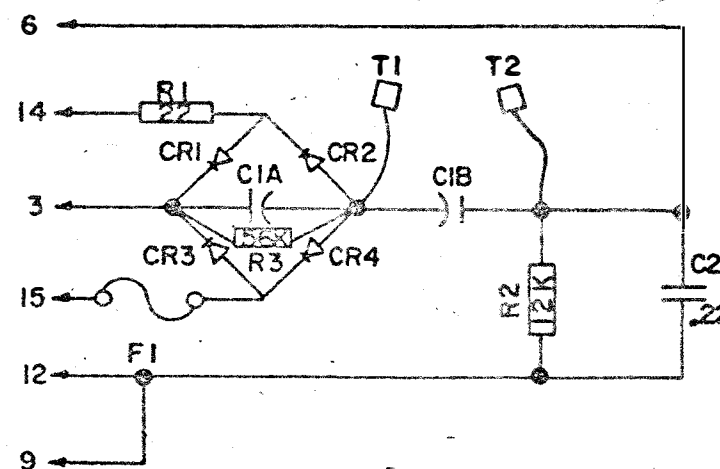
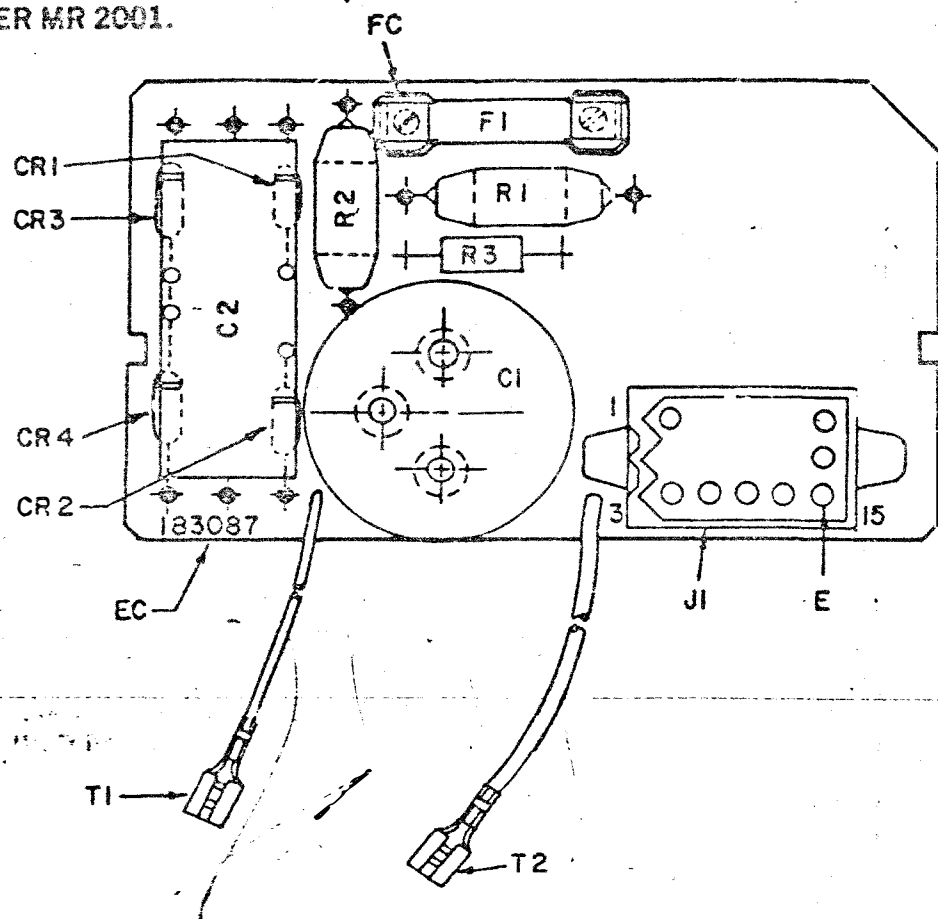
CIRCUIT CARD ASSEMBLY

POWER PACK ASSEMBLY

NO B/M

183087

NO.	NOTES
1	MASTER ARTWORK 183087AW FOR PRINTED SCREENING AVAILABLE IN R&D OFFICE SERVICE SECTION.
2	SOME PREVIOUS CIRCUIT CARD ASSEMBLY USED 1/2 AFB. 3/4 AFB IS PREFERABLE.
3	ON ISSUE 10, BOARD NUMBER WAS 183000.
4	FOR STANDARDIZATION CR1-4 WERE CHANGED FROM 181-654.



PARTS REQ	NO REC	USED ON	NO REC
SEE BELOW		182134	1

REVISIONS		
ISSUE NO	DATE	AUTHOR
2	8-20-62	30-278
3	9-23-62	30-132
4	2-20-63	30-5537
5	6-27-63	78290
6	9-19-63	93916
7	11-25-63	93916-1
8	8-22-66	93993
9	9-17-66	93987
10	2-10-70	93987-2
11	3-3-71	2320
12	1-20-72	564-2
13	12-18-72	6803

CUSTOMER I.D.	ISSUE	VERSION	ASSOCIATED NOTE	DRAWING ISSUE	CONFORMANCE DATE	AUTH. NO.
13	B	4	14			12174

DESIGNATION	TELETYPE PART NO	TOTAL QTY.	DESCRIPTION	FUNCTION
R1	183083	1	RESISTOR, 22 OHM	SURGE LIMITER
R2	183082	1	RESISTOR, 12,000 OHM	ARC SUPPRESSOR
C1	183078	1	CAPACITOR, DUAL SELECTION A-200 M.F.D. 200 V.D.C. B-9 M.F.D. 200 V.D.C.	POWER SUPPLY FILTER SURGE SOURCE
C2	183084	1	CAPACITOR, .22 M.F.D.	ARC SUPPRESSOR
CR1	312341	4	DIODE, 400 V. (NOTE 4)	POWER SUPPLY RECTIFIER
CR2			"	"
CR3			"	"
CR4			"	"
FI	143630	1	FUSE, 3/4 A. F.B.	POWER SUPPLY PROTECTION SEE NOTE 2.
FC	171595	2	FUSE CLIP	
T1	183085	2	TERMINAL WITH WIRE LEAD	
T2			"	
J1	182540	1	CONTACT BLOCK, 15 POINT	
E	182641	8	TERMINALS MALE PC.	
EC	183157	1	ETCHED CIRCUIT BOARD	NOTE 3
	151637	2	SCREW 4-40 FIL HEAD	
	110743	2	LOCK WASHER #4	
	151880	2	NUT	
R3	118198	1	RESISTOR, 56,000 OHM	BLEEDER

THIS POWER PACK CONSISTS OF A 150 VOLT POWER SUPPLY OPERATING DIRECTLY FROM THE 117 VAC LINE. A WAVE SHAPING NETWORK AND AN ARC SUPPRESSOR. IT IS DESIGNED TO OPERATE WITH AN INDUCTIVE LOAD OF APPROXIMATELY 100 OHMS BETWEEN TERMINALS 6 AND 12. WITH A 850 OHM 40 WATT RESISTOR CONNECTED BETWEEN T1 AND T2.

AN ON-OFF CONTROL SWITCH IS CONNECTED BETWEEN TERMINALS 9 AND 3. THE UNIT IS DESIGNED TO DRIVE THE READER MAGNET IN THE MODEL 32 AND 33 ASR.

WDP

APPROVALS	
D AND R	E OF M
<i>[Signature]</i>	<i>[Signature]</i>
E. NUMBER	
PROC. NO. 183087	

SCALE: 1/1

STOCK SPECIFICATION

DRAWN	PD FILE NO	DATE	SIZE	KIND	SHAPE	TENPER
T.R.	1-47.60AA	5/70				
DESIGNED	ENGINEER	CHECKED				
	W.A.J.					

TELETYPE CORPORATION
183087