

NOTES

1. ALL COMPONENTS SHOWN IN THEIR NORMAL POSITION WHEN SENDING APPARATUS IS IN THE IDLE, STOP OR HOME POSITION. RELAY CONTACTS ARE DETACHED FROM RELAY COILS FOR EASE OF CIRCUIT TRACING.

UNOPERATED
OPERATED

2. DENOTES RELAY WHICH OPERATES CONTACT SWINGER MOVES TOWARD BOTTOM OF DRAWING WHEN RELAY SWITCH IS OPERATED.

3. DENOTES 1st CONTACT (FURTHEST FROM COIL) ON REAR CONTACT PILE UP AS VIEWED FROM FRONT OF CABINET.

4. COMPONENTS LABELED 101 TO 199 ARE COMPONENTS LABELED 1 TO 99 ARE COMPONENTS LABELED 201 TO 299 ARE ATTACHED TO MESSAGE I.D. MODULE.

CABINET L54C 223

RELAY RACK	TB1	RT TO RT8	TB2
CONTROL SHELF	J7	J8	J9
UPPER TRANSMITTER	J1	J2	J3
LOWER TRANSMITTER	J4	J5	J6

NUMBER MODULE 173520

SW204	SW205	SW206	SW207	SW208
L201	L202	L203	L204	L205

5. CONNECT EXTERNALLY FUSED (1 AMP) 120V D.C. CABINET CONTROL BATTERY TO 60V D.C. TO TB2-74 (+20) RESISTOR IN SERIES WITH 60V D.C. CLUTCH MAGNET SEND TRAFFIC (CONTINUOUS OR PULSED) OPERATING BATTERY TO TB2-75

6. CONNECT -60V D.C. (SIGNALING) SIGNAL LINE BATTERY TO TERMINAL TB1-115. CONNECT +60V D.C. (MARKING) SIGNAL LINE BATTERY TO TB1-116. SIGNAL LINE TO TERMINAL TB1-97. SIGNAL LINES TO BE FURNISHED BY CUSTOMER. SHIELD CABLE GRD TO TB4.

THE NUMBERING MODULES AS RECEIVED FROM THE FACTORY ARE PERMANENTLY WIRED FOR THE FOLLOWING IDENTIFICATION SEQUENCE:

1. NOTE #	2. Z	3. C	6. NOTE #
4. Z	5. C	8. NOTE #	9. NOTE #
7. NOTE #	8. NOTE #	11. 100	12. 10
10. FIG.	14. LTR.		

NOTE #:

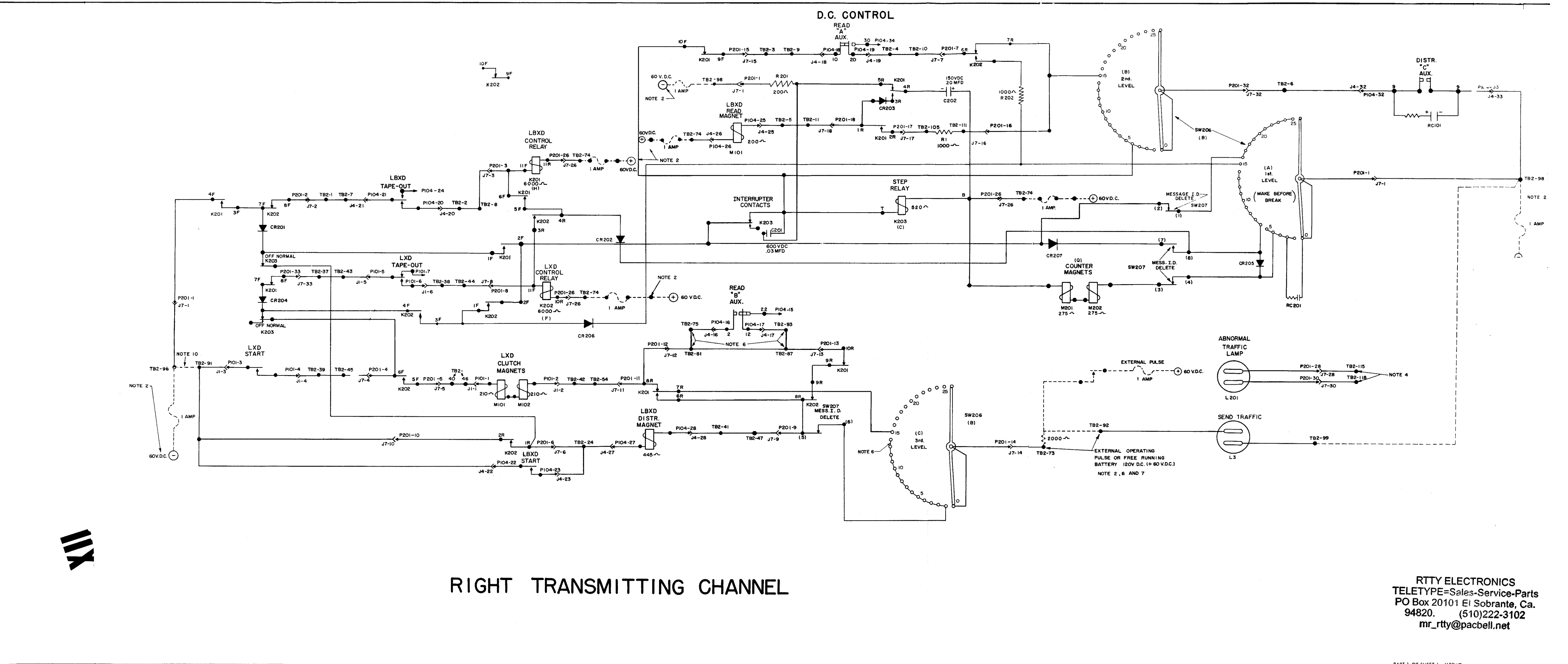
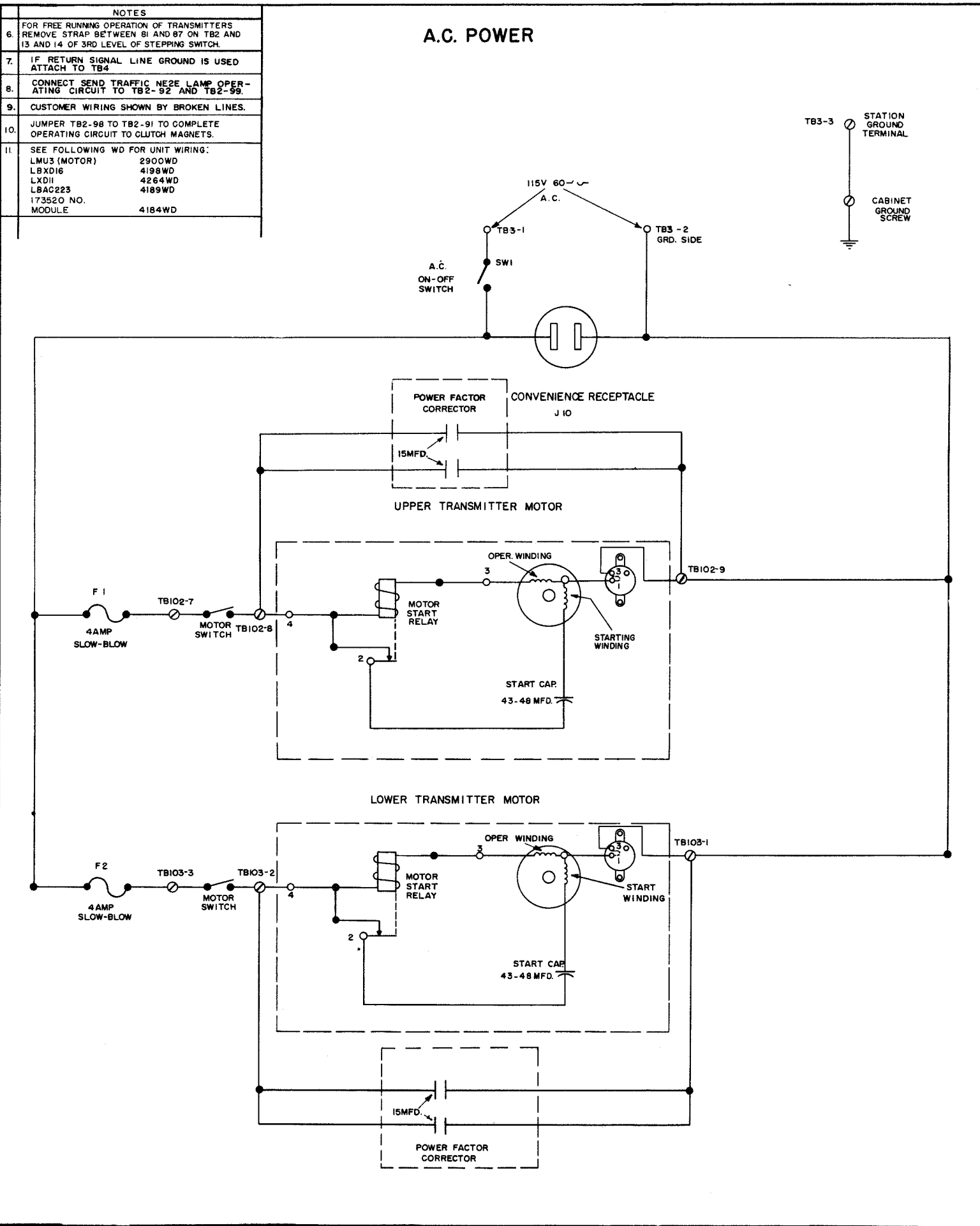
THE 8th AND 9th CHARACTERS ARE PROVIDED WITH A UNIVERSAL BOARD (173575) AND CONNECTOR FOR READY CHANGEABILITY OF THE 8th AND 9th CODES. BREAK LINES ON CARDS TO CORRESPOND TO DESIRED CODE AS SHOWN BELOW

(+)	(-)
SPACE	MARK
A B C D E F H J K L	
CODE	1 2 3 4 5 1 2 3 4 5
A	0 0 + + - - 0 0 0

THE STEPPING SWITCH SW207 AS SUPPLIED FROM THE FACTORY DOES NOT HAVE THE 1st, 6th AND 7th CODE POSITION WIRED. THE USER MAY WIRE THESE POSITIONS FOR THE DESIRED CODE. IF A SPECIFIC CODE IS NOT REQUIRED, THE POSITION FOR LTR COMBINATION: ALL MARK (MINUS BATT)

4. CONNECT ABNORMAL NERE LAMP 120V D.C. OPERATING CIRCUIT TO TB2-115 AND TB2-118

5. (B) DENOTES (AREA) ON ACTUAL W.D.

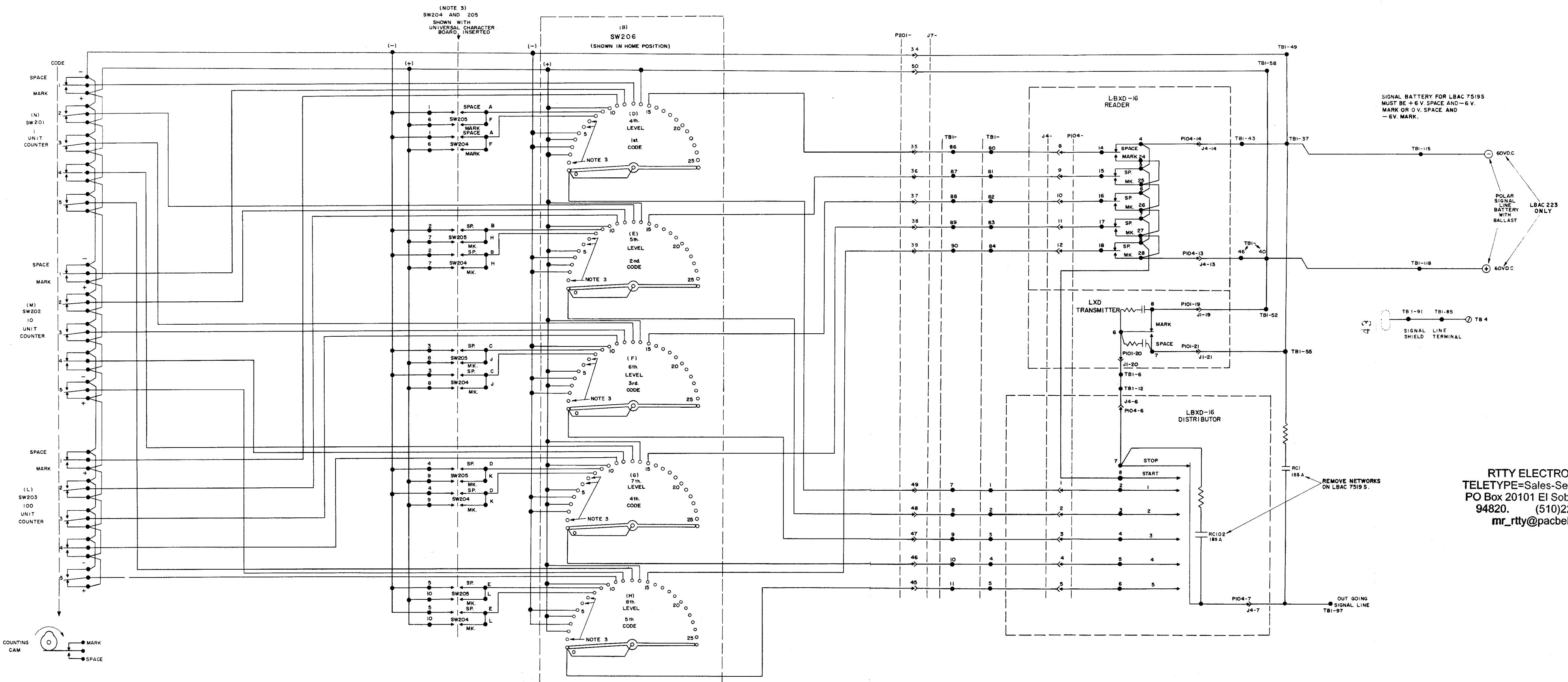


RIGHT TRANSMITTING CHANNEL

RTTY ELECTRONICS
TELETYPE=Sales-Service-Parts
PO Box 20101 El Sobrante, Ca.
94820. (510)222-3102
mr_rtty@pacbell.net

SIGNAL LINES

4188WD			
REV.	DATE	BY	APP.
1	7-28-60	W. J. BAC	[Signature]
2	8-25-60	W. J. BAC	[Signature]
3	9-7-60	W. J. BAC	[Signature]
4	10-27-60	W. J. BAC	[Signature]



SIGNAL BATTERY FOR LBAC 7519S
MUST BE +6 V. SPACE AND -6 V.
MARK OR 0 V. SPACE AND
-6 V. MARK.

RTTY ELECTRONICS
TELETYPE=Sales-Service-Parts
PO Box 20101 El Sobrante, Ca.
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REMOVE NETWORKS
ON LBAC 7519 S.

SCHEMATIC WIRING DIAGRAM OF LBAC 223 TRANSMITTING CABINET			
APPROVALS			
DESIGNED BY	DATE	BY	APP.
W. J. BAC	7-28-60	W. J. BAC	[Signature]
FILE NO.	4188WD	REV.	1
DATE	7-28-60	BY	W. J. BAC
APPROVED BY	DATE	BY	APP.
[Signature]	8-25-60	[Signature]	[Signature]
TELETYPE CORPORATION			

NOTES

1. ALL COMPONENTS SHOWN IN THEIR NORMAL POSITION WHEN SENDING APPARATUS IS IN THE IDLE STOP OR HOME POSITION. RELAY CONTACTS ARE DETACHED FROM RELAY COILS FOR EASE OF CIRCUIT TRACING.

2. UNOPERATED

3. OPERATED

4. DENOTES RELAY WHICH OPERATES CONTACTS CONTACT SWINGERS MOVES TOWARD BOTTOM OF DRAWING WHEN RELAY OR SWITCH IS OPERATED.

5. DENOTES 1st CONTACT (FURTHEST FROM COIL) ON REAR CONTACT PILE UP AS VIEWED FROM FRONT OF CABINET.

6. COMPONENTS LABELED 101 TO 199 ARE ATTACHED TO TRANSMITTERS.

7. COMPONENTS LABELED 1 TO 99 ARE ATTACHED TO MESSAGE I.D. MODULE.

8. COMPONENTS LABELED 201 TO 299 ARE ATTACHED TO MESSAGE I.D. MODULE.

9. CABINET LSAC223

RELAY RACK
 TB1 RT TO RT5
 TB2
 CONTROL SHELF
 J7 J8 J9
 LX2
 UPPER TRANSMITTER
 J1 J2 J3
 LOWER TRANSMITTER
 J4 J5 J6
 TB3
 NUMBER MODULE 173520
 P201
 K203
 K201
 K202
 C201
 SW204
 SW205
 SW207
 L201

10. CONNECT EXTERNALLY FUSED (1 AMP) 120V D.C. BATTERY CONTROL CIRCUIT TO
 * 60V D.C. TO TB2-80(H20)
 * 60V D.C. TO TB2-104(O1)

11. CONNECT ABOVE 50MA (INTERNAL 2000 OHM RESISTOR IN SERIES WITH 60V D.C. LEG) SWITCH MARKET SEND TRAFFIC (CONTINUOUS) OR USING OPERATING BATTERY TO TB2-79
 * CONNECT + 60V D.C. MARKING SIGNAL LINE BATTERY TO TERMINAL TB1-16
 * CONNECT + 60V D.C. MARKING SIGNAL LINE BATTERY TO TERMINAL TB1-19
 * BALLAST FOR SIGNAL LINE BATTERY TO BE FURNISHED BY CUSTOMER
 * CONNECT SIGNAL LINE SHIELD CABLE GRD. TO TB4

12. THE NUMBERING MODULES AS RECEIVED FROM THE FACTORY ARE PERMANENTLY WIRED FOR THE FOLLOWING IDENTIFICATION SEQUENCE:

1. NOTE #	2. Z	3. C
4. Z	5. C	6. NOTE #
7. NOTE #	8. NOTE #	9. NOTE #
10. FIG.	11. ITR.	12. 10

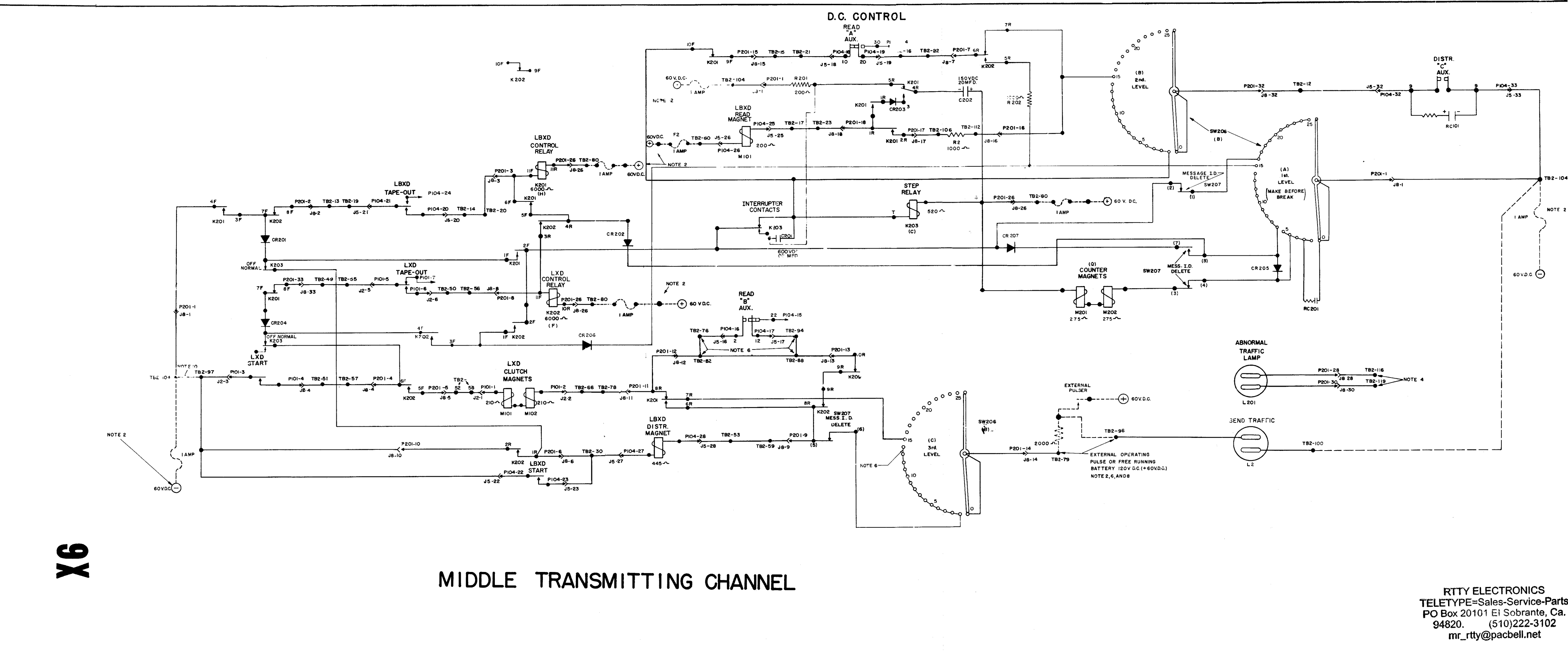
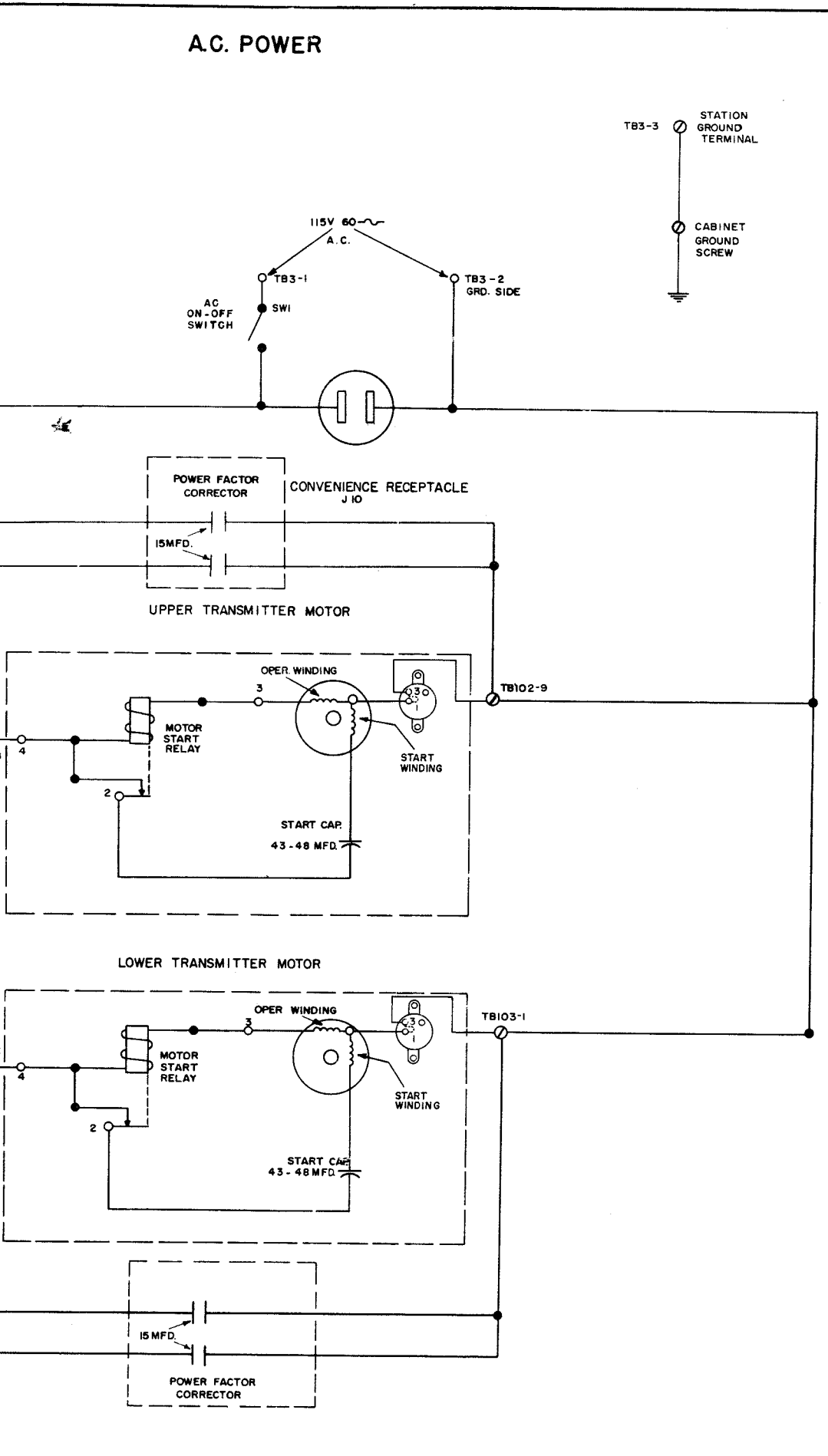
NOTE #:
 THE BR AND 9th CHARACTERS ARE PROVIDED WITH A UNIVERSAL BOARD (173575) AND CONNECTOR RECHANGABLE CARDS OF THE BR AND 9th CODES. BREAK LINES ON CARDS TO CORRESPOND TO DESIRED CODE AS SHOWN BELOW

(+)	(-)
SPACE	MARK
A B C D E F H J K L	
CODE	1 2 3 4 5 1 2 3 4 5
A	0 0 1 1 0 0 1 1 0 0 1 1

13. THE STEPPING SWITCH SW207 AS SUPPLIED FROM THE FACTORY DOES NOT HAVE THE 1st, 6th AND 7th CODE POSITION WIRED. THE USER MAY WIRE THESE POSITIONS FOR THE DESIRED CODE. IF A SPECIFIC CODE IS NOT REQUIRED WIRE THE POSITION FOR LTR. COMBINATION: ALL MARK (MINUS BATT)

14. CONNECT ABNORMAL LAMP 120V D.C. OPERATING CIRCUIT TO TB2-116 AND TB3-119

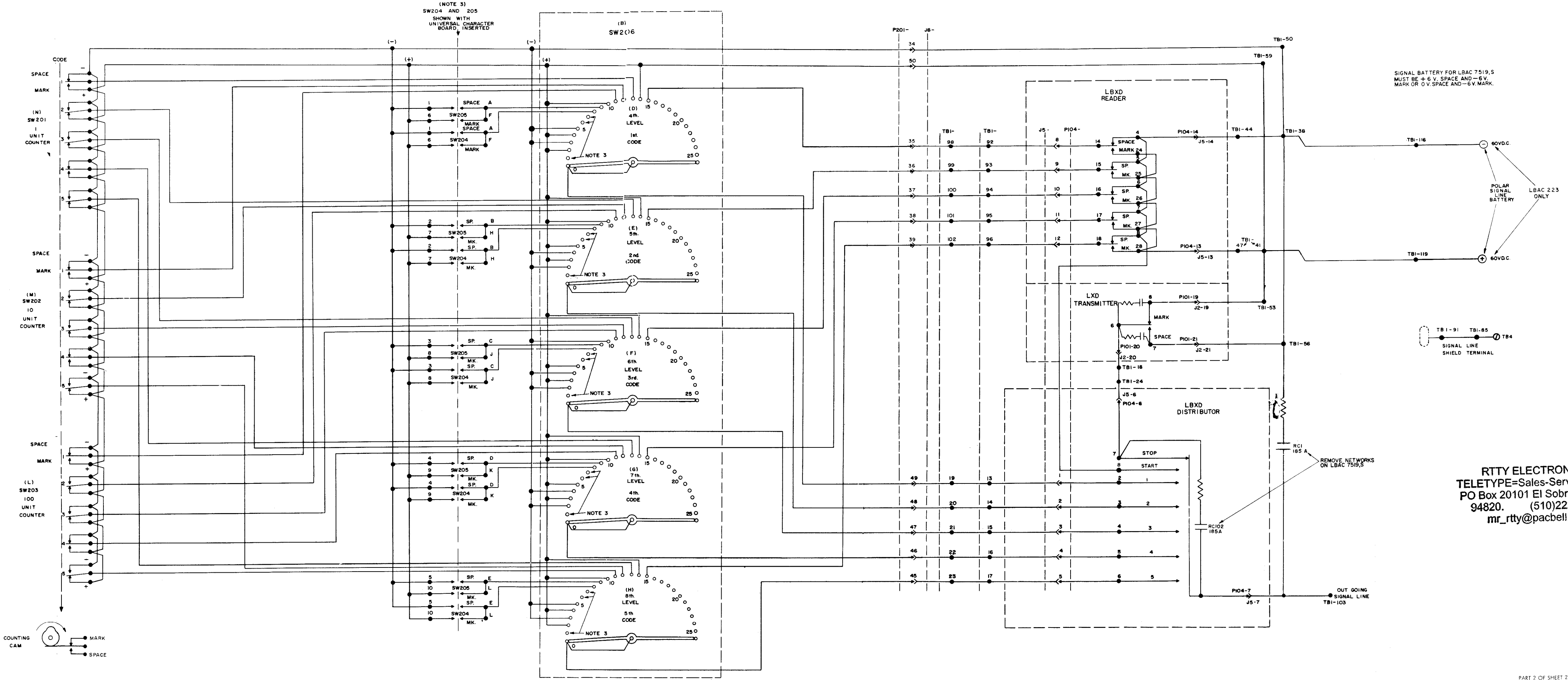
15. (B) DENOTES (AREA) ON ACTUAL WD.



RTTY ELECTRONICS
 TELETYPE=Sales-Service-Parts
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SIGNAL LINES

REVISION	DATE	AUTH.	NO.
1	7-30-60		
2	7-30-60		
3	7-30-60		
4	7-30-60		
5	7-30-60		
6	7-30-60		



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SCHEMATIC WIRING DIAGRAM OF LBAC 223 TRANSMITTING CABINET	
APPROVALS	
D AND R	E OF M
E-NUMBER	
PROJ. NO. 4188WD	
DATE 7-30-60	
PD FILE NO 38-A2/654A	
DRAWN N A R (CND) JJJ	
ENGR G C M (APP) JJJ	
TELETYPE CORPORATION	
4188WD	

NOTES

1. ALL COMPONENTS SHOWN IN THEIR NORMAL POSITION WHEN SENDING APPARATUS IS IN THE IDLE STOP OR HOME POSITION.

2. RELAY CONTACTS ARE DETACHED FROM RELAY COILS FOR EASE OF CIRCUIT TRACING.

UNOPERATED
OPERATED

3. DENOTES RELAY WHICH OPERATES CONTACTS. CONTACT SWINGER MOVES TOWARD BOTTOM OF DRAWING WHEN RELAY OR SWITCH IS OPERATED.

4. DENOTES 1st CONTACT (FURTHEST FROM COIL) ON REAR CONTACT PAIR UP AS VIEWED FROM FRONT OF CABINET.

5. COMPONENTS LABELED 101 TO 199 ARE ATTACHED TO MESSAGE I.D. MODULE. COMPONENTS LABELED 201 TO 299 ARE ATTACHED TO MESSAGE I.D. MODULE. CABINET LBAC 223.

RELAY RACK
CONTROL SWIF
LXD UPPER TRANSMITTER
LOWER TRANS LBD
TB1 RT TO RT1
TB2
J7 J8 J9
J1 J2 J3
J4 J5 J6
TB3
TB4

NUMBER MODULE 173520
L201
K203
K201
K202
C201
SW204
SW205
SW206
SW207
L201

1. A. CONNECT EXTERNALLY FUSED (1 AMP) 120 V.D.C. CABINET CONTROL BATTERY TO
+60 V.D.C. TO TB2-86 (+20)
-60 V.D.C. TO TB2-110 (-0)

B. CONNECT ABOVE 50 MA EXTERNAL 2000 Ω RESISTOR IN SERIES WITH 60 V.D.C. LINE CLUTCH MAGNET SEND TRAFFIC (CONTINUOUS OR PULSING) OPERATING BATTERY TO TB2-85

2. CONNECT -60 V.D.C. (SPACING) SIGNAL LINE BATTERY TO TERMINAL TB1-117.
CONNECT +60 V.D.C. (MARKING) SIGNAL LINE BATTERY TO TERMINAL TB2-117.
CONNECT OUTGOING SIGNAL LINE TO TERMINAL TB1-109.
CONNECT INCOMING SIGNAL LINE BATTERY TO BE FURNISHED BY CUSTOMER TO TERMINAL TB2-109.
CONNECT SIGNAL LINE SHIELD CABLE GRD. TO TB4

3. THE NUMBERING MODULES AS RECEIVED FROM THE FACTORY ARE PERMANENTLY WIRED FOR THE FOLLOWING IDENTIFICATION SEQUENCE:

1. NOTE #	2. Z	3. C
4. Z	5. C	6. NOTE #
7. NOTE #	8. NOTE #	9. NOTE #
10. FIG	11. 100	12. 101
13. 1	14. LTR.	

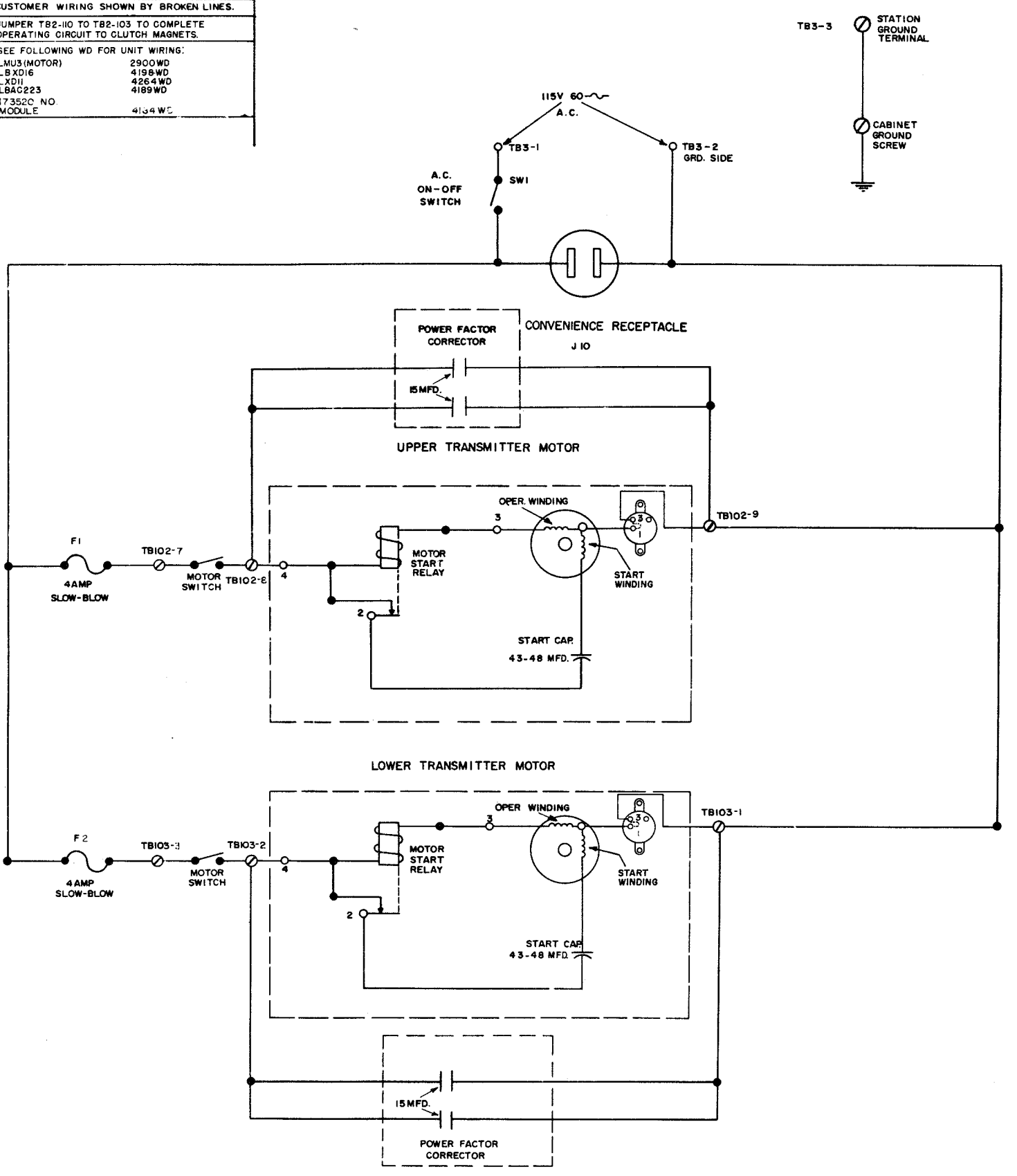
NOTE #:
THE 8th AND 9th CHARACTERS ARE PROVIDED WITH A UNIVERSAL BOARD (173575) AND CONNECTOR FOR READY CHANGEABILITY. THE 8th AND 9th CODES BREAK LINES ON CARDS TO CORRESPOND TO DESIRED CODE AS SHOWN BELOW.

(+)	(-)
SPACE	MARK
A B C D E F H J K L	
CODE 1 2 3 4 5 1 2 3 4 5	
A → 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	

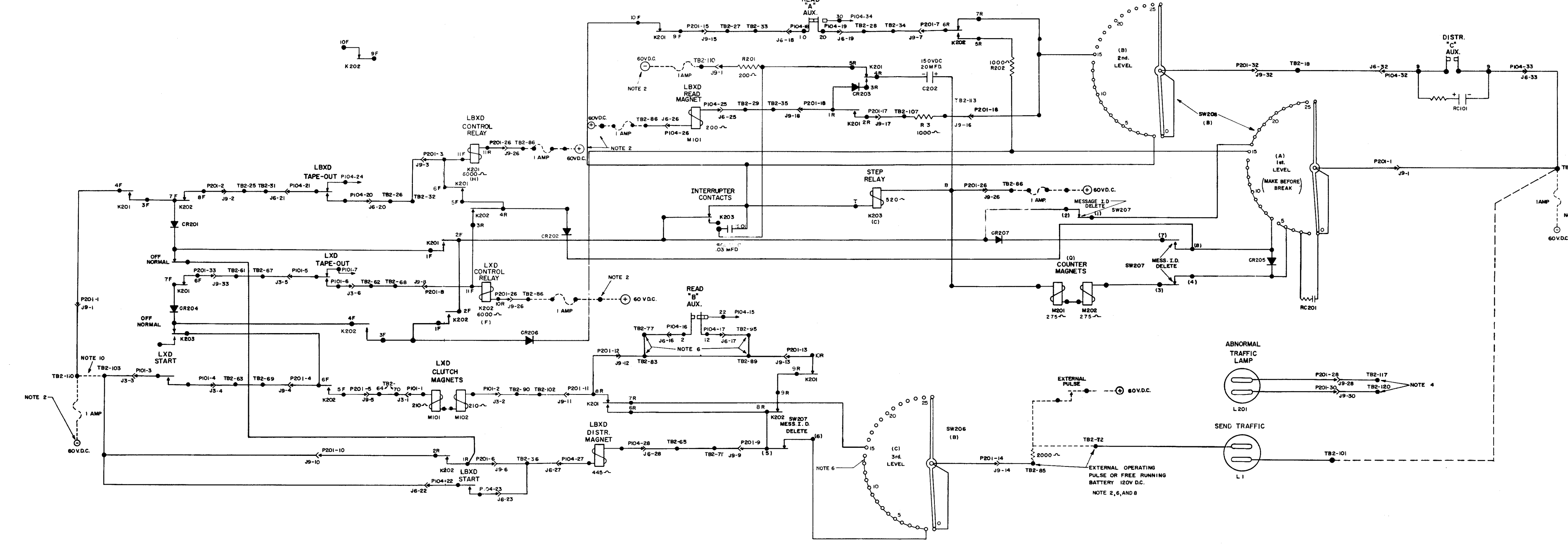
4. CONNECT ABNORMAL MESSAGE LAMP 120 V.D.C. OPERATING CIRCUIT TO TB2-117 AND TB2-120.

5. (B) DENOTES (AREA) ON ACTUAL W.D.

A.C. POWER



D.C. CONTROL

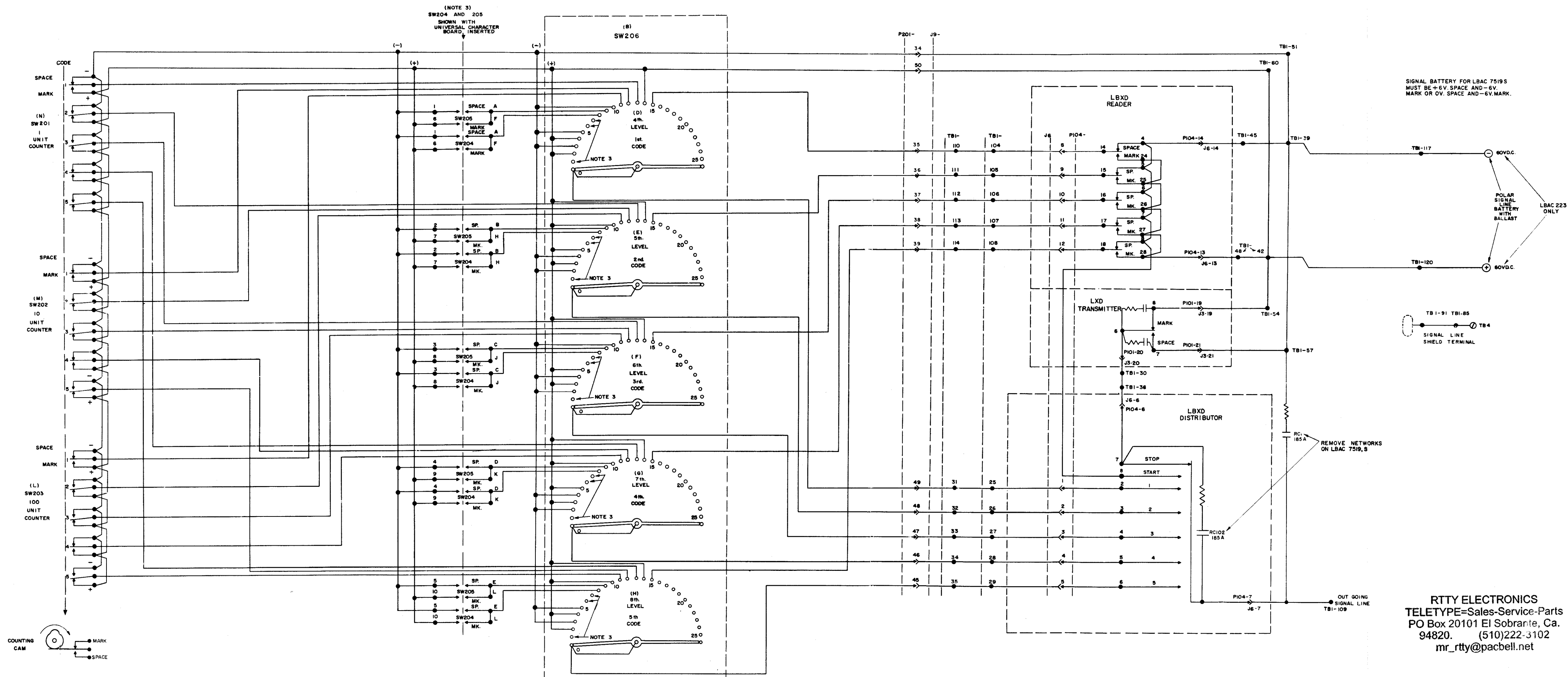


LEFT TRANSMITTING CHANNEL

RTTY ELECTRONICS
TELETYPE=Sales-Service-Parts
PO Box 20101 El Sobrante, Ca.
94820. (510)222-3102
mr_rtty@pacbell.net

SIGNAL LINES

REVISION	DATE	BY	NO.
1	7-29-60	...	...
2	...	...	...
3	...	...	...
4	...	...	...



SIGNAL BATTERY FOR LBAC 7519 S
MUST BE +6V. SPACE AND -6V. MARK OR OV. SPACE AND -6V. MARK.

POLAR SIGNAL LINE BATTERY WITH BALLAST
LBAC 223 ONLY

TBI-91 TBI-85
SIGNAL LINE SHIELD TERMINAL

REMOVE NETWORKS ON LBAC 7519, S

RTTY ELECTRONICS
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PO Box 20101 El Sobrante, Ca.
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SCHEMATIC WIRING DIAGRAM OF LBAC 223 TRANSMITTING CABINET	
APPROVALS	
D AND R	E OF M
24	
E-NUMBER	
PROD NO. 4188 WD	
DATE 7-29-60	
PO FILE NO 36-A2-65AA	
DRAWN N.A.B. CHKD. J.H.H.	
ENGR. G.C.M. APPR.	
TELETYPE CORPORATION	
4188WD	