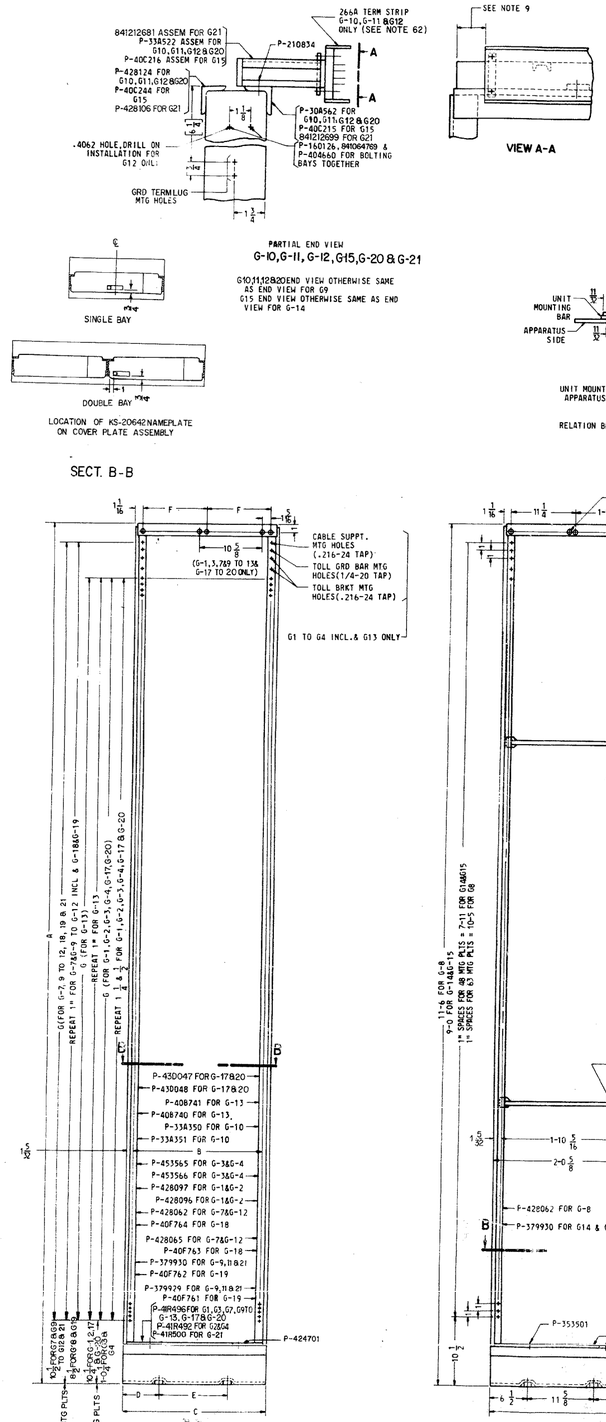

MANUFACTURING NOTES (CONT'N)

10. FOR APPLICATION OF KS-20642 NAMEPLATES REFER TO SPECIFICATION X-17195.

MANUFACTURING NOTES (CONT'N)

6. TWO BAY FRAMEWORK HAVING 151 TYPE OR SIMILAR MTG PLATES(NOTCHED MTG HOLES)AND EITHER ONE OR TWO BAYS 75K OR MORE EQUIPPED WITH RELAYS AND COILS SHALL BE PROVIDED WITH STIFFENING BAR SUPPORTS P-171051,WITH THE EXCEPTION THAT IF BOTH BAYS HAVE ONE OR MORE PLATES OF THE TYPE WITH OVAL MTG HOLES(189 TYPE OR SIMILAR), OR UNITS EQUIPPED WITH SUCH PLATES, MOUNTED IN THE APPROXIMATE AREA WHERE STIFFENING BAR SUPPORTS ARE GENERALLY LOCATED,THE SUPPORTS MAY BE OMITTED. STIFFENING BAR SUPPORTS,WHEN USED SHALL BE REMOVED ON INSTALLATION AND DISCARDED.
7. DIMENSIONS IN [ ] ARE FOR ENGINEERING INFORMATION ONLY.
8. WHERE TWO BAY FRAMEWORK PER G-8 HAS EITHER ONE OR TWO BAYS FULLY EQUIPPED AND HAS 203A TERM.STRIP AND MTG.BRACKET,OR SIMILAR TYPE EQUIPMENT,MOUNTED ON THE REAR OF THE MOUNTING PLATES WHICH INTERFERE WITH THE USE OF THE STIFFENING BAR SUPPORT ASSEMS P-171051,THIS INTERFERING EQUIPMENT SHALL BE REMOVED FROM THE MOUNTING PLATES AND SECURELY TIED TO THE SUPPORT BAR FOR SHIPMENT. ON INSTALLATION WHEN THE STIFFENING BAR SUPPORT ASSEMS ARE REMOVED,THIS EQUIPMENT SHALL BE RETURNED TO THE NORMAL POSITION ON THE MOUNTING PLATES.
9. THE 266A DPTS SHALL BE LOCATED AT THE RIGHT HAND END OF CABLE RACK,VIEWED FROM FRONT,AND SHALL BE MOUNTED AS NEAR TO THE UPRIGHT AS SWITCHBOARD CABLES WILL PERMIT.

ENGINEERING NOTES (CONT'N)

54. FOR SEPARATION DETAILS WHEN LINING UP WITH OTHER TYPES OF FRAMEWORK SEE ED-91839-70. FOR CLOSING UNEQUIPPED RR SPACE SEE ED-25528-71 OR ED-91804-70.
55. FOR RACK WITH 10" SHEET METAL BASE SEE ED-91183-30.
56. END GUARDS FOR G-1,2,7,8,9,11,12 & 17 TO 20 SEE ED-91423-71 & ED-91423-73. END GUARDS FOR G-3,4 & 13 SEE ED-91838-70.
57. FOR CABLE BRACKETS SEE ED-91205-50.
58. FOR GUARD RAIL CLOSING DETAIL FOR GROUPS 10,11 OR 12 SEE ED-91423-71 G-13.
59. I-OR CABLING REASONS THE TOP TWO MOUNTING PLATES,COUNTING BOTTOM UP,SHALL NORMALLY NOT BE EQUIPPED,;LIMITING 11'-6" FRAMEWORK TO 61 PLATES,9'-0" FRAMEWORK TO 46 PLATES AND 7'-0" FRAMEWORK TO 34 PLATES. FOR ADDITIONAL INFORMATION REFER TO TYPICAL CABLING PLAN ED-92224-71(NOTE 16).
60. FOR ANCHOR BOLTS SEE H-555-120 G-6.
61. WHEN FRAME ASSEMBLY IS ORDERED FOR NON-ASSOCIATE,EXPORT OR GOVERNMENT AGENCY SALE,A GROUP NPI SHALL BE FURNISHED TO PROVIDE A "WESTERN ELECTRIC" NAMEPLATE PER KS-20642 L&P TO REPLACE "BELL SYSTEM" NAMEPLATE PER KS-20642 L4P
62. FOR ALTERNATE METHOD OF MOUNTING 266A TS SEE ED-31178-30, FIG. 9.

PARTS TO BE WELDED	
P-453662	P-428124
P-453661	P-428122
P-453664	P-428103
P-453663	P-428118
P-428096	P-428996
P-428097	P-453703
P-453566	P-453702
P-453565	P-428117
P-428065	P-428182
L 428062	P-430182
P-379906	P-379907
P-379930	P-379929
P-334350	P-334351
P-30A562	P-408740
P-40C215	P-408741
P-40C214	P-40C244
P-430047	P-430048
P-40F761	P-40F762
P-40F763	P-40F764
P-47F878	841212673
	841212665
	P-428106
	841212669

MANUFACTURING NOTES

1. PARTS NOT MARKED CONSTITUTE THE MAJOR ASSEMBLY AND ARE TO BE ASSEMBLED FOR SHIPMENT.

   PARTS DESIGNATED "S" SHALL BE SHIPPED SEPARATE.

   ⊠ MISC ITEMS REQUIRED FOR INSTALLATION.

   "W" ITEMS TO BE ASSEMBLED WHEN EQUIPMENT IS MOUNTED,FOR SHOP WIRED BAYS BUT TO BECOME "S" ITEMS WHEN EQUIPMENT IS TO BE MOUNTED ON INSTALLATION.

   ▦ PARTS THAT ARE TO BE SHIPPED ATTACHED TO,OR ENCLOSED IN THE SAME CONTAINER WITH,THE ASSOCIATED ASSEMBLED ITEM.
2. FRAME TO BE WELDED AND MEET REQUIREMENTS PER ED-92744-10
3. P-428405 SPACER,P-160381 H H CAP SCR & 841064795 HEX NUT TO BE USED FOR JUNCTIONING FRAMES.
4. LEVELING SCREWS P-428403 SHALL BE LEFT IN PLACE ON INSTALLATION.
5. P-428279 & P-428280 GRD BAR (JCT) TO BE USED PER ED-91210-51 NOTE 12.

REV	DATE	DESCRIPTION
	211726-B	212014-B 213676-B1G
	211776-B	212065-B 213684-B
	211360-B	212097-B 213715-B1
	214428-B	212059-D 213746-B1
	211939-B	212241-B 213939-B1
	211593-B	213585-B 214060-B1
	211771-B	213582-B
	211824-B	213589-B

ORIGINAL ISSUE 6-12-81

REQUIRED NUT TO FREE CONLIT ON REAR FRAME ON CHANGE IN G-8 6-23-82 — 22

IN SL LINE #11, IN TABLE OF PARTS TO BE WELDED,P-47F878 ADDED. IN SL LINE #14 FOR G-18/19 "I" REMOVED. END VIEW CHGD ACCORD 12-5-82 — 24 JWB 23

G-20 ADDED G3,4&13 RATED WAFER DISC IN NOTE 2 ED-92744-10 ADD ED-25023-80 9-16-83 ADD-91837-1 CSCH&B — 24

IN SL LINES 54 & 55 "P-428403" & "P-404460" ADDED "P-428279" & "P-428280" REPR IN LINE 59 QTY FOR G-1,2,3,4,7,8,10,11,12,13, 17,18,19 & 20, "1" ADDED "P-428106" FOR G-8,14,15 & 20, "2" ADDED "4". VIEWS CHGD ACCORD. 3-17-85 — 375380-D — 25

IN SL G-14 REQ'D 1 P-428106, 1 G-4 ADDED NOTE 12 TO G-4 NOTE. G-8 ADDED CHGD ACC. 4-11-85 — 375080-D — 26

DWG CHG TO AGREE WITH CHG MADE ON ED-92744-10 ISS 3. IN SL "P-210213 RHM SCR, 5/16-18 X 1", ADD "P-210216 RHM SCR, 5/16-18 X 7/8". 2-3-86 376215-B1C — 27

IN PICTORIAL VIEW "CLEAR HOLE LOCATED ON SCREW" TAPPED HOLES LOCATED ON TOP ADDED 4-15-89 — 376909-B1 — 28

IN TABLE OF DIMENSIONS "MAX NO. OF 1 3/4" MTG PLTS SEE NOTE 5" & "MAX. NO. OF 2" MTG PLTS SEE NOTE 5D" REPD "NO. OF 1 3/4" MTG PLTS" & "NO. OF 2" MTG PLTS". PER SA 6-26-89 377185-B1 — 29

IN TABLE OF DIMENSIONS "MAX NO. OF 1 3/4" MTG PLTS" READ "MAX. NO. OF 1 3/4" MTG PLTS. SEE NOTE 5K" 2-3-91 377906-B1 — 30

NOTE 53 READ "FURN G-5 OR G AS REQD AT THE RIGHT OR LEFT END FACING THE REAR OF ANGLE REL RACK LINEUP WHEN ADJ TO OTHER TYPE FRAMEWORK. G-6 IS REQD WHEN ANGLE REL RACK IS ADJ TO A CHANNEL REL RACK WITH CABLING ON BOTH ADJ UPRIGHTS. 5-7-91 CL:BD — 31

IN FRONT VIEW FOR 2" MTG PLTS,10 1/2 ± 1/8" ON 1ST MTG HOLE WAS ON END MTG HOLE. 1-6-92 371581-B1 — 32

IN SL K2-20642, L4P & K5-20642, L4P READ 6D-91791, 23 & 6E-78791, L&P REPR. 2-4-92 AND ADDED "STD" NOTES TO G1 CHG RECORD. 1-17-94 378110-B1 — 33

GR 21 ADDED 7-2-96 — 33A — 34

IN STOCKLIST ON LINES 61 & 67 "1" READ "2" AND ON LINES 61,67 & 70 IN G-15 COL. "1" ADDED. 1-8-75 CL:B — 35

IN SL LINES 67 & 68 NON-STD FASTENERS WERE SPECIFIED. 7-22-76 75HW 0021-B1C — 36

NOTE 62 ADDED. 6-12-78 AT&T NONE WE CL:B — 37

IN SL LINE 63 READ P-210213 RHM. 9-16-79 CL B — 38

LINE	COL	CODE	DESCRIPTION	NOTE	REV
21		GR			
20		G-20			
19		G-19			
18		G-18			
17		G-17			
16		G-16			
15		G-15			
14		G-14			
13		G-13			
12		G-12			
11		G-11			
10		G-10			
9		G-9			
8		G-8			
7		G-7			
6		G-6			
5		G-5			
4		G-4			
3		G-3			
2		G-2			
1		G-1			
1			841212681		
1			P-41R500 COVER PLATE ASSEM	S	75
			266A TERM STRIP	S	
1			P-430182 BAR		
2			P-284163 WASHER .383 X .750 X .071		
1			P-428403 SQ H CONE PT SET SCR 1/2-13 X 1 1/2		
			P-404460 SPACER	S	70
1			P-428405		
1			841064793 HEX NUT 1/2-13		
1			841064769 5/16-18		
2			P-453702 GUSSET PLATE		
2			P-453703		65
			P-353446 RHM SCR .216-24 X 3/8		
			841060122 PHM SCR 5/16-18 X 1		
4			P-353501 RHM SCR .216-24 X 5/16		
1			P-160126 5/16-18 X 7/8		
3			P-210834 HH CAP SCR 1/2-13 X 3/4		60
1			P-160381 1/2-13 X 1 1/8		
			P-189779 ADAPTER	S	
			P-453097	S	
1			P-424701 COVER PLATE	S	
			P-41R496 COVER PLATE ASSEM	S	55
			P-41R492	S	
			P-40C216 CABLE RACK ASSEM	S	
			P-334522	S	
1			841212699 (REAR)		
			P-40C244		50
			P-40C215		
			P-30A562 (REAR)		
			P-428142 (FRONT)		
			P-428117 (REAR)		
			P-428118 (REAR)		45
			P-428103 (REAR)		
			P-428122 (FRONT)		
			P-428124 (FRONT)		
			P-47F878 (FRONT)		
			P-40C214 UPRIGHT ASSEM		40
			P-428996		
1			P-428106 TOP ANGLE (FRONT)		
			P-430047 (RIGHT)		
			P-430048 (LEFT)		35
			P-408741 (RIGHT)		
			P-408740 (LEFT)		
			P-40F762 (LEFT)		
			P-40F761 (RIGHT)		
			P-40F764 (LEFT)		30
			P-40F763 (RIGHT)		
			P-334351 UPRIGHT (LEFT)		
			P-334350 (RIGHT)		
			P-379930 (LEFT)		
			P-379929 (RIGHT)		25
			P-428062 (LEFT)SHOWN ON ED-25023-15		
			P-453565 (LEFT)		
			P-453566 (RIGHT)		
			P-428097 (LEFT)SHOWN ON ED-25023-16		
			P-428096 (RIGHT)SHOWN ON ED-25023-16		20
			P-428065 (RIGHT)SHOWN ON ED-25023-15		
			P-453690 BASE ASSEM	S	
			P-453689	S	15
1			841212665 FRONT BASE		
			P-453666 BASE SUPPORT	S	
			P-453665	S	
1			KS-19291 L7 NAMEPLATE	S	10
			KS-20642 L&P NAMEPLATE	S	
			P-379907		
1			P-453663 REAR BASE		
			P-453664		
1			841212673		5
1	PART ONLY		KS-20642 L4P NAMEPLATE	S	
			P-379906		
			P-453661 FRONT BASE		
			P-453662		1

ENGINEERING NOTES

51. MADE ~~FROM ED-91837-01 ISSUE 7~~ AND ED-30616-01 NOTE 11.
52. FOR GRD BARS,JUNCTIONS AND TERMINAL LUGS,JACK MTGS & CONNECTING BLOCK MTGS. SEE ED-91210-52 & ED-90484-74 OR ED-91210-51 & ED-90484-72 KEARNY ONLY. FOR G-1,2 & 15 GROUND BAR P-40C244,G-21 NOT ARRANGED FOR GRD BAR
53. FURNISH G5 OR G6 AS REQUIRED FOR JUNCTIONING EITHER END OF ANGLE RELAY RACK LINE UP WHEN ADJACENT TO ANGLE RELAY RACK. G6 IS REQUIRED WHEN ANGLE RELAY RACK IS ADJACENT TO ANGLE RELAY RACK WITH CABLING ON BOTH ADJACENT UPRIGHTS. (CONT'D)

GROUP	MAX NO.MAX.NO OF 1 3/4" MTG PLATS SEE NOTE 5D	A	B	C	D	E	F	G
21	—	48	9-0	2-5 5/16	2-8 1/8	9	1-2 1/4	—
20	55	-	9-0	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
19		49	9-0	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
18		64	11-6	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
17	55	-	9-0	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
13	-	54	10-6	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
12	-	63	11-6	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
11	-	48	9-0	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
10	-	36	7-0	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
9	-	48	9-0	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
7	-	63	11-6	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
4	61	-	10-6	1-6 1/4	1-8 5/8	6	8 5/8	9 1/4
3	61	-	10-6	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4
2	69	-	11-6	1-4 1/2	1-8 5/8	6	8 5/8	9 1/4
1	69	-	11-6	1-10 5/16	2-0 3/8	6 1/2	11 5/8	11 1/4

TABLE OF DIMENSIONS

CODE	DESCRIPTION
G-1	ONE BAY 9'-0 HIGH FOR G7 TYPE MINI CROSSBAR SWITCHES WITH NAMEPLATE NMPS DISCO
G-2	NAMEPLATE
G-3	ONE BAY 9'-0 HIGH FOR 1 3/4 X 23 MTG PLTS WITH 5" CABLE RACK
G-4	ONE BAY 9'-0 HIGH FOR 2X23 MTG PLTS FOR N2 CARRIER BAYS
G-5	ONE BAY 11'-6 HIGH FOR 2X23 MTG PLTS FOR N2 CARRIER BAYS
G-6	ONE BAY 9'-0 HIGH FOR 1 3/4 X 23 MTG PLTS
G-7	ONE FRAME BASE FILLER FOR 2" SPACE
G-8	TWO BAY REL RACK 9'-0 HIGH 2X23 MTG PLTS WITH 5" CABLE RACK
G-9	TWO BAY REL RACK 9'-0 HIGH 2X23 MTG PLTS
G-10	ONE BAY 10'-6 HIGH 2X23 MTG PLTS MFR DISC
G-11	ONE BAY 11'-6 HIGH 2X23 MTG PLTS WITH 5" CABLE RACK
G-12	ONE BAY 9'-0 HIGH 2X23 MTG PLTS WITH 5" CABLE RACK
G-13	ONE BAY 7'-0 HIGH 2X23 MTG PLTS WITH 5" CABLE RACK
G-14	ONE BAY 9'-0 HIGH 2X23 MTG PLTS
G-15	TWO BAY REL RACK 11'-6 HIGH 2X23 MTG PLTS
G-16	ONE BAY 11'-6 HIGH 2X23 MTG PLTS
G-17	ONE FRAME BASE FILLER FOR 1 1/2" SPACE AND SEPARATION DETAILS BETWEEN UPRIGHTS
G-18	ONE FRAME BASE FILLER FOR 2" SPACE AND SEPARATION DETAILS BETWEEN UPRIGHTS
G-19	ONE BAY 10'-6 HIGH 1 3/4X19 MTG PLTS MFR DISC
G-20	ONE BAY 10'-6 HIGH 1 3/4X23 MTG PLTS MFR DISC
G-21	ONE BAY 11'-6 HIGH 1 3/4X19 MTG PLTS
G-2	ONE BAY 11'-6 HIGH 1 3/4X23 MTG PLTS
G-1	ONE BAY 11'-6 HIGH 1 3/4X23 MTG PLTS

NOTICE
NOT FOR USE OR DISCLOSURE OUTSIDE BELL SYSTEM EXCEPT UNDER WRITTEN AGREEMENT

COMMON SYSTEMS
RELAY RACK ASSEMBLY
ANGLE TYPE
1-0 SHEET METAL BASE
7'-0, 9'-0, AND 11'-6 HIGH

IN99

A.T. & T. CO. RATING
A.T. & T. CO. STANDARD
W.E. CO. RATING
STANDARD

ISSUE 5

ED-91837-71

WESTERN ELECTRIC COMPANY, INC.

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