

LOOP SWITCHING SYSTEM
35A CABINET
DESCRIPTION AND INSTALLATION

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3. INSTALLATION	3	1.01 This section covers the description and installation of the 35A cabinet used to house the remote terminal for the Loop Switching System (LSS).	
A. Placing Concrete Foundation	3	1.02 When this section is reissued, the reason for reissue will be listed in this paragraph.	
B. Placing Cabinet on Concrete Foundation	3	1.03 The remote terminal is powered from the central office (CO); however, if power cannot be supplied from the CO, the remote terminal may be powered from a locally available -48 volt dc common system supply or from commercial 117-volt ac 60-Hz power. If commercial power is used, batteries are required to maintain equipment for approximately 10 hours if there is a commercial power failure.	
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NOTICE

Not for use or disclosure outside the
Bell System except under written agreement

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2. DESCRIPTION

2.01 The 35A cabinet (Fig. 1) consists of a weatherproof cabinet equipped for the crossarm fixture or pedestal mounting and framework for mounting the following assemblies:

- (a) 99A Apparatus Mounting
- (b) 100A Apparatus Mounting
- (c) 3A Power Panel
- (d) 29A Apparatus Unit
- (e) 121A Connecting Unit.

2.02 The cabinet is 48 inches high, 29 inches wide, and 14 inches deep; the cabinet is painted green.

2.03 When installing a cabinet on a concrete foundation, the following materials are required in addition to materials normally carried on the vehicle:

- (a) Concrete foundation per drawing 38-Y-4054; this must be arranged for locally.
- (b) AT-8812 B pedestal base.
- (c) Connectorized stub cable—50 foot 400-pair PASP sheath equipped with KS-16690, L12 connectors or equivalent on one end. A 400-pair stub cable is required when the unit is to be equipped with a 121A connecting unit. Early systems not equipped with the 121A connecting unit could use a 300-pair stub, but new systems should use the 121A connecting unit and a 400-pair stub. The reason for using the 121A connecting unit is to avoid trunk pairs and data link pairs appearing in the feeder field of the cross-connect terminal.
- (d) D ground rod.
- (e) No. 6 ground wire.
- (f) 1/2-inch watertight, flexible, metal power conduit (if required).
- (g) 4-inch flexible conduit, if required.

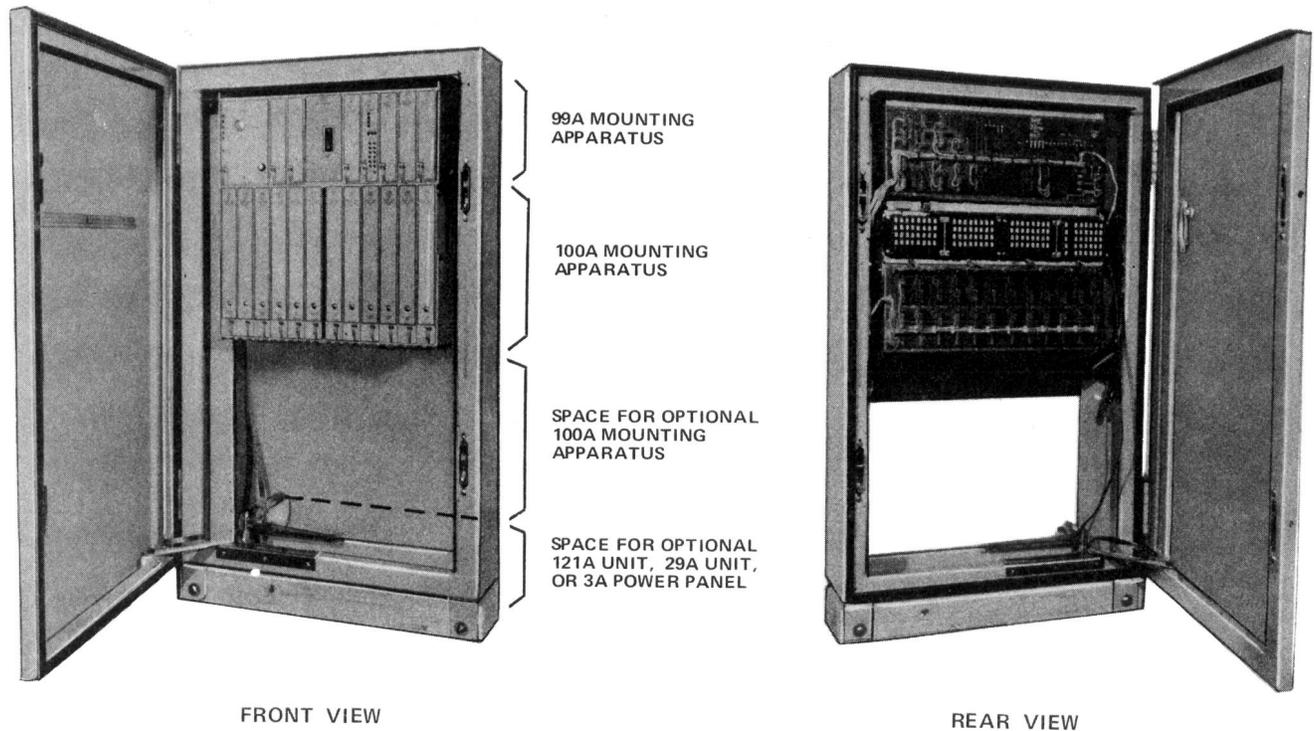


Fig. 1—35A Cabinet

2.04 When installing a cabinet on a crossarm fixture, the following materials are required:

- (a) Treated wood crossarms (two 3- by 4- by 64-inch or two 3- by 4- by 120-inch).
- (b) D ground rod.
- (c) 5/8-inch suspension bolts, nuts, and washer.
- (d) Materials for constructing platform, if required.
- (e) Flexible conduit or U-guard.
- (f) Preconnectorized stub cable—50 foot 400-pair PASP sheath equipped with KS-16690, L12 connectors or equivalent on one end. A 400-pair cable is required when the unit is to be equipped with a 121A connecting unit. Early systems not equipped with a 121A connecting unit could use a 300-pair stub, but new systems should use the 121A connecting unit and a 400-pair stub. The reason for using the 121A connecting unit is to avoid trunk and data link pairs appearing on the feeder field of the cross-connect terminal.
- (g) No. 6 ground wire.
- (h) 1/2-inch watertight, flexible, metal power conduit (if required).

3. INSTALLATION

A. Placing Concrete Foundation

3.01 Dig a trench 40 inches deep and of minimum width from the cabinet location to the splice location or interface for the stub cable and its conduit and, if required, the power cable. A depth of 40 inches is required to accommodate the bend radius of the conduit before entering the cabinet.

3.02 Level the area of the concrete foundation. If a subbase is required, place gravel or locally approved equivalent on the leveled area.

DANGER: *Exercise care when handling the concrete foundation to avoid injury to personnel or damaging the foundation.*

3.03 Screw four lifting lugs into the threaded inserts in the concrete foundation. Attach four B wire ropes to the lifting lugs; then, using a derrick, lift the concrete foundation and position directly over the trench, as shown in Fig. 2. Level the foundation.

3.04 Remove the wire ropes and lifting lugs from the foundation.

3.05 Drive a D ground rod through the rectangular opening in the concrete foundation, leaving 6 inches of rod exposed above the top of the foundation (Fig. 2).

3.06 Feed the unconnectorized end of the stub cable through the conduit, leaving approximately 50 inches of cable sheath above the foundation (Fig. 2).

3.07 If flexible power conduit is required, feed the conduit through the opening in the concrete foundation and route it to the meter panel or switch box, leaving approximately 15 inches above the foundation (Fig. 2).

B. Placing Cabinet on Concrete Foundation

WARNING: *Exercise care when handling the cabinet to avoid scratches and dents.*

3.08 Position the crated cabinet at a convenient location; then remove the carton from the pallet.

3.09 Attach two B wire ropes to the lifting lugs provided on the cabinet. Using a derrick, lift the cabinet.

3.10 Remove the wood pallet from the bottom of the cabinet.

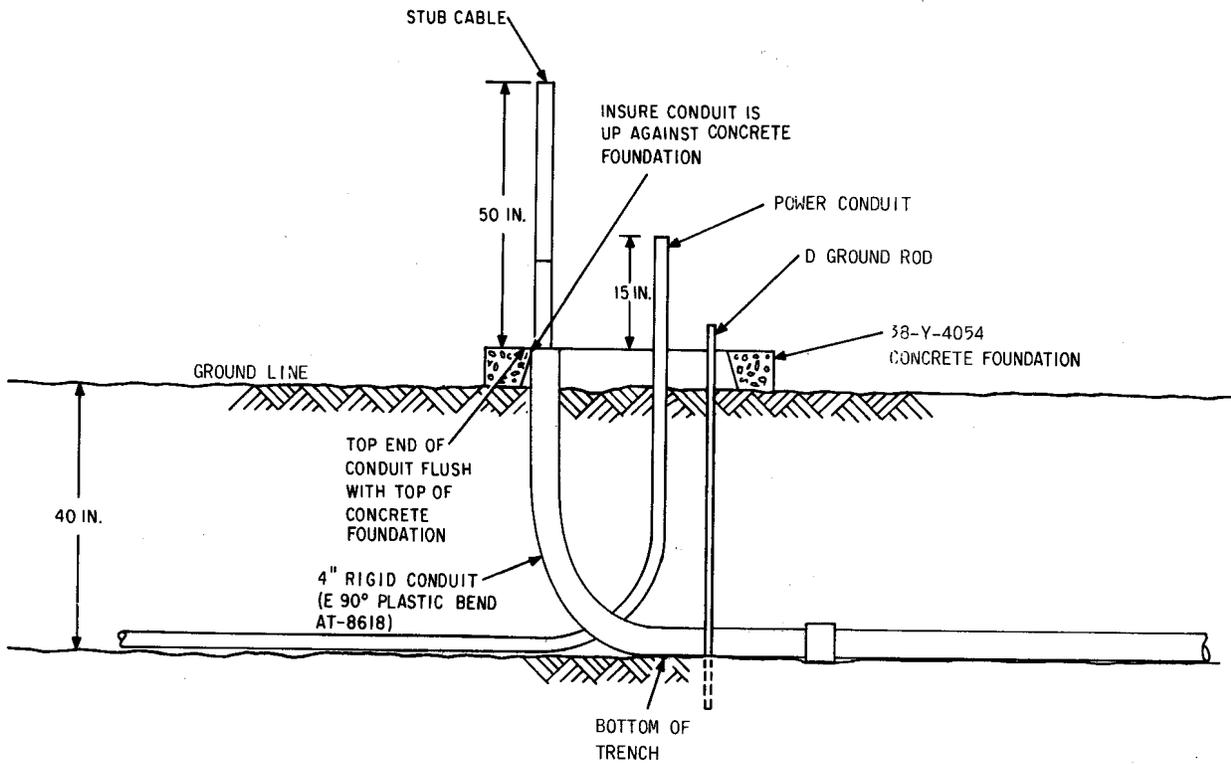
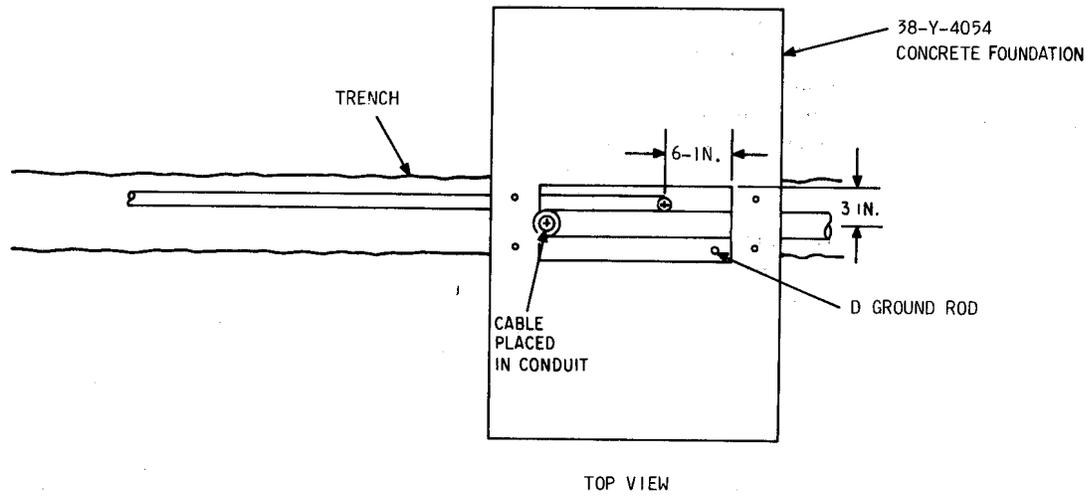


Fig. 2—Placed Concrete Foundation

3.11 Remove the four 1/2-13 by 1-inch bolts from the bottom of the cabinet. Using these bolts, attach the legs of the B pedestal base to the cabinet, as shown in Fig. 3. The keyway slot on each leg goes toward the front of the cabinet. The front door of the cabinet has hinges on the left side. One pedestal leg is specially notched so as not to cover up the cable entrance port. Leave the bolts fingertight.



Fig. 3—Attaching Pedestal Legs to Bottom of Cabinet

3.12 Lower the cabinet and simultaneously feed the stub cable through the port in the bottom of the cabinet on the concrete foundation. Assure that the four holes in the pedestal legs and the four threaded inserts in the concrete foundation are in alignment. When leveling is required, place shims between the pedestal base and concrete foundation.

3.13 Using four 1/2-13 by 1-inch bolts (supplied with the cabinet pedestal assembly), secure the cabinet pedestal assembly to the concrete foundation as shown in Fig. 4. Shim the cabinet, if required. Tighten all bolts.



Fig. 4—Attaching Cabinet Pedestal Assembly to Concrete Foundation

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- 3.14 Pull the connectorized end of the stub cable through the port in the bottom of the cabinet until approximately 4 inches of cable sheath extends into the cabinet.
- 3.15 Install the D bond clamp on the cable sheath as outlined in Section 081-852-118.
- 3.16 Using the lug provided, attach No. 6 ground wire to angle as shown in Fig. 5. Attach the other end to the D ground rod.

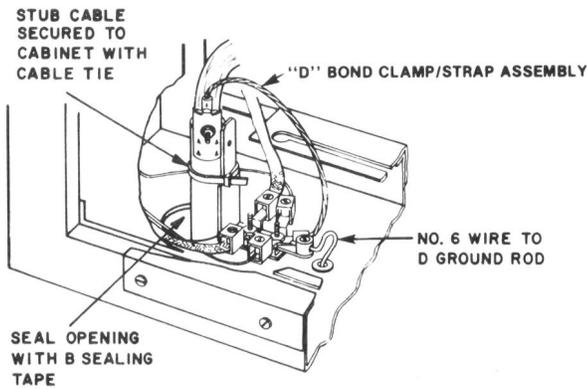


Fig. 5—Bonded Cable Sheath and Cabinet

- 3.17 Using B sealing tape, seal the cable entrance in the cabinet.
- 3.18 Backfill all trenches.

- 3.19 Secure the rear pedestal cover (Fig. 6) as outlined below:
 - (a) Open the front and rear doors of cabinet.
 - (b) Remove the nuts from studs on cover.
 - (c) Place the bottom of the cover into the recess in the concrete foundation.
 - (d) Position studs on cover into holes on pedestal legs.
 - (e) From the front of the pedestal, secure the rear cover to the pedestal legs with the two 3/8 by 20 nuts.



Fig. 6—Installing Rear Cover on Pedestal

3.20 Install and secure the front pedestal cover (Fig. 7) as outlined below:

- (a) Adjust the nuts on the pedestal front cover so that the cover fits snugly against the pedestal legs.
- (b) Position the bottom of the cover in the recess of the concrete pedestal, then swing the cover up so that the adjusted nuts fit into the keyway slots in the pedestal legs. Drop the pedestal cover.
- (c) Close and secure the front and rear doors of the cabinet. Closing the cabinet doors prevents the pedestal front cover from being raised and removed.



Fig. 7—Installing Front Cover on Pedestal

3.21 Figure 8 illustrates a complete installation on a concrete foundation.



Fig. 8—Completed Installation

C. Construction of Crossarm Fixture

3.22 The procedures for constructing a crossarm fixture for a single cabinet (Fig. 9) are as follows:

- (a) Set a 7-foot stub pole, of the same class as the existing pole, 5 feet into the ground at the location shown in Fig. 9.
- (b) Dig a minimum width trench approximately 12 inches deep (or as required) between the stub pole and existing pole.
- (c) Drill 11/16-inch diameter holes for 5/8-inch suspension bolts in each pole at a point 20 inches above the ground line or platform. Assure that the holes go straight through the pole.

- (d) Drill 11/16-inch diameter holes for 5/8-inch suspension bolts in each end of the 2- by 4- by 64-inch crossarms for attaching to stub and pole.
- (e) Attach the two crossarms to the stub and pole using 5/8-inch suspension bolts, square washers, and nuts.
- (f) Drill 11/16-inch diameter holes for 5/8-inch suspension bolts on 26-1/2 inch centers in the crossarm, as shown in Fig. 9.
- (g) Drive a D ground rod into the ground next to the existing pole, leaving 6 inches exposed.

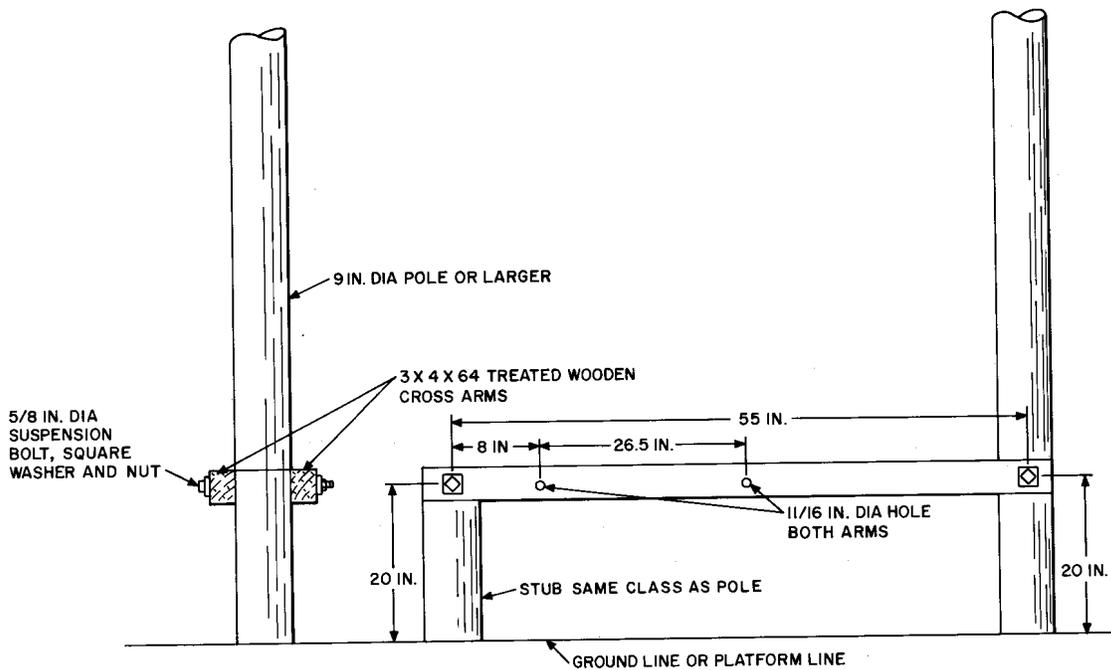


Fig. 9—Fixture for Single Cabinet Installation

3.23 The procedure for constructing a crossarm fixture for a double cabinet (Fig. 10) is as follows:

- (a) Set two 7-foot stub poles, of the same class as the existing pole, 5 feet into the ground at the location shown in Fig. 10.
- (b) Dig a minimum width trench approximately 12 inches deep (or as required) between the poles.
- (c) Drill 11/16-inch diameter holes for 5/8-inch suspension bolts above the ground or platform, assure that the holes go straight through the poles.
- (d) Drill 11/16-inch diameter holes for 5/8-inch suspension bolts in each 2- by 4- by 120-inch crossarm, as shown in Fig. 10, for attaching to stub and pole.
- (e) Attach the two crossarms to the stub and pole using 5/8-inch suspension bolts, square washers, and nuts.

(f) Drill 11/16-inch diameter holes for 5/8-inch suspension bolt on 26-1/2 inch centers in the crossarm, as shown in Fig. 10.

(g) Drive a D ground rod into the ground next to the existing pole, leaving 6 inches exposed.

D. Installation of Cabinet on Crossarm Fixture

WARNING: *Exercise care when handling the cabinet to avoid scratches and dents.*

3.24 Position the crated cabinet at a convenient location, then remove the carton from the pallet.

3.25 Attach two B wire ropes to the lifting lugs provided on the cabinet; then, using a derrick, lift the cabinet.

3.26 Remove the wood pallet from the bottom of the cabinet.

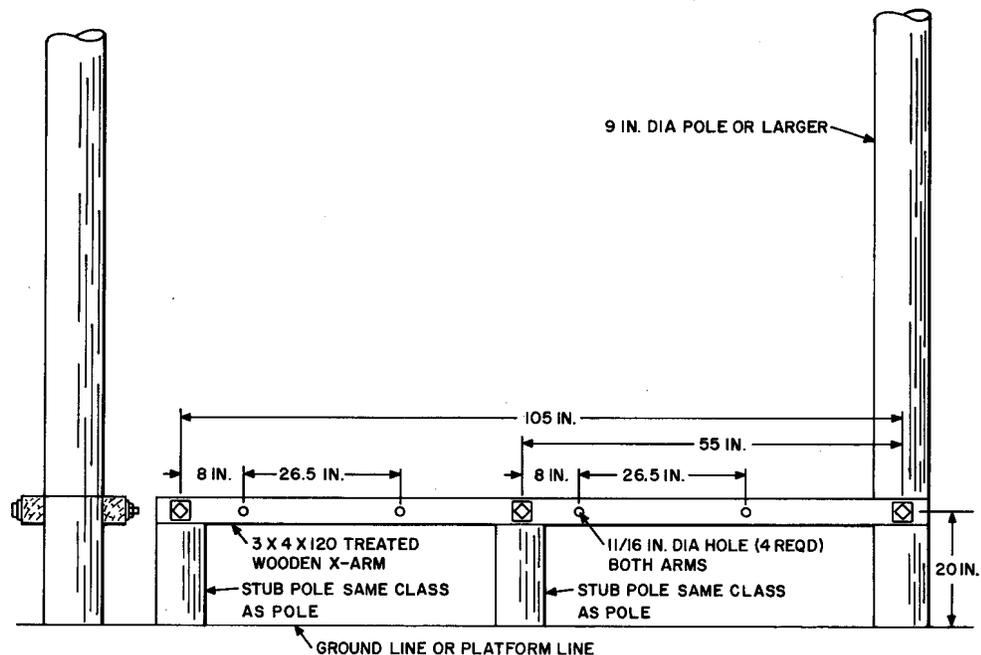


Fig. 10—Fixture for Double Cabinet Installation

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3.27 Remove the four 1/2-13 by 1-inch bolts and cabinet mounting brackets from the bottom of the cabinet and install between crossarms as shown in Fig. 11. A square nut clamps the mounting bracket to the front crossarm (Fig. 11). Leave the nuts fingertight.

3.28 Position the cabinet on the mounting brackets and assure that the holes in the mounting brackets and the holes in the bottom of the cabinet are in alignment. When leveling is required, use shims between the cabinet and the mounting

brackets. The front door of the cabinet has hinges on the left side.

3.29 Using four 1/2-13 by 1-inch bolts, secure the cabinet to the brackets as shown in Fig. 12. Tighten all bolts.

3.30 Remove the B wire ropes from the cabinet.

3.31 Feed the preconnectorized end of the stub cable through the port in the bottom of the cabinet. Approximately 4 inches of cable sheath should extend into the cabinet.

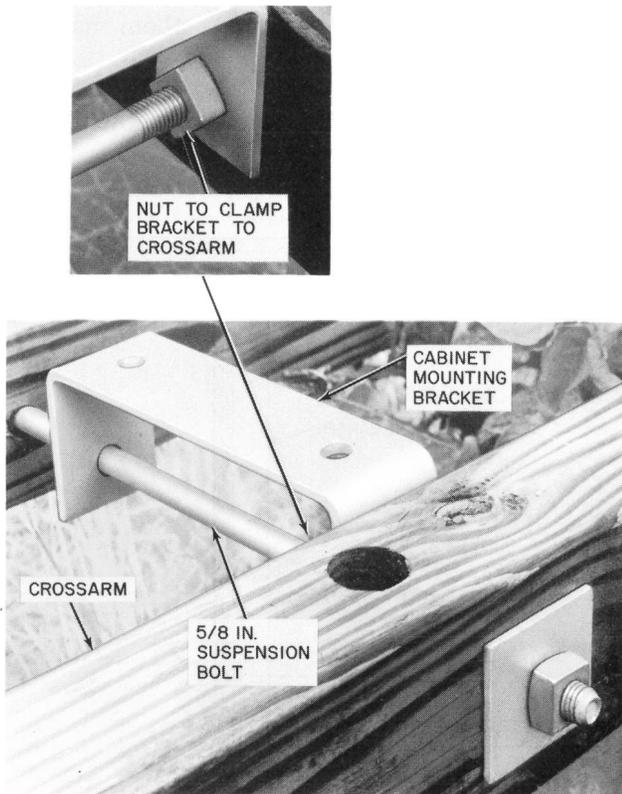


Fig. 11—Cabinet Mounting Brackets Installed Between Crossarms

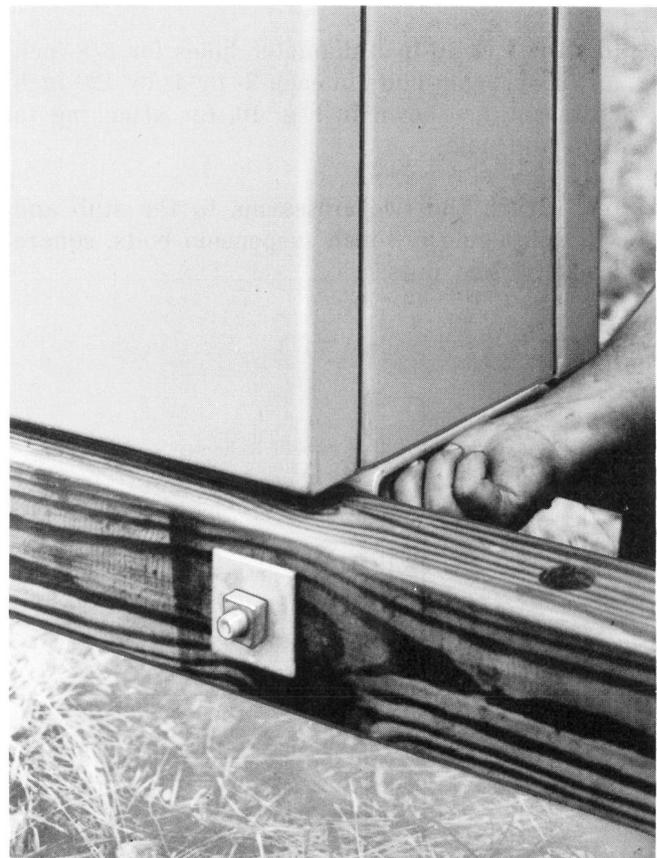


Fig. 12—Securing Cabinet to Bracket

3.32 If flexible power conduit is required, run the power conduit from the bottom of the cabinet, along the crossarm, along the stub pole, into the trench between the poles, and up the pole to the meter panel and switch box, as shown in Fig. 13.

3.33 Prepare the cable sheath and install No. 6 ground wire, as outlined in paragraphs 3.15 through 3.16.

3.34 Using B sealing tape, seal the cable entrance to the cabinet.

3.35 Backfill all trenches.

3.36 Figure 13 illustrates a complete installation on a crossarm fixture.

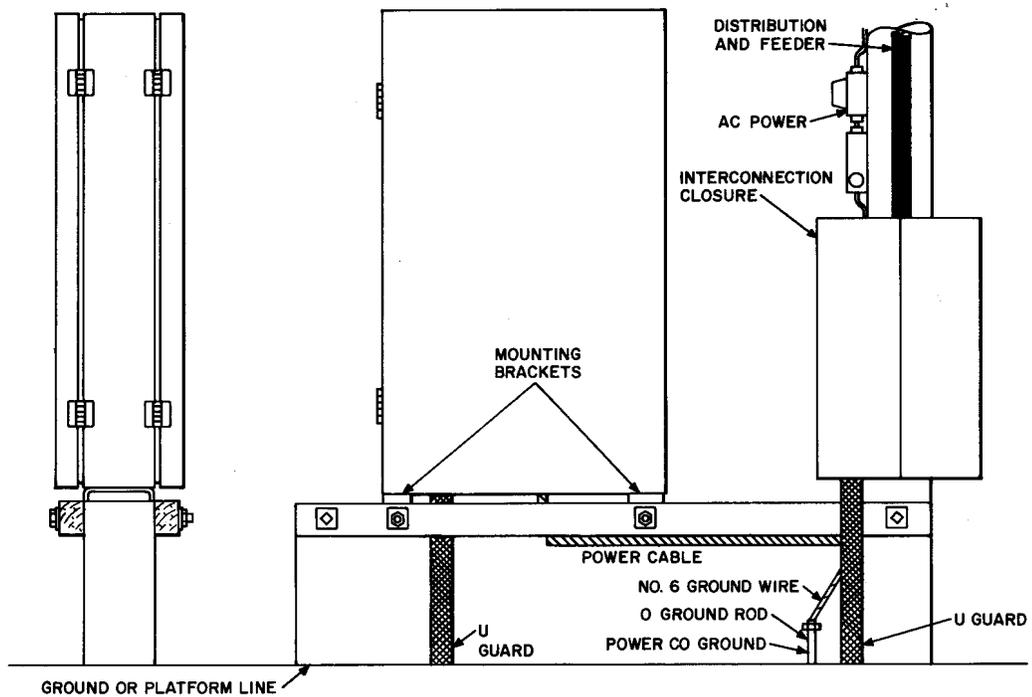


Fig. 13—Fixture Mounted Cabinet

4. TERMINATING STUB CABLE

4.01 Figure 14 illustrates the 400-pair stub cable and Fig. 15 through 20 illustrate the methods of mating the connector for different configurations.

New systems should be equipped with 121A connecting units and follow the method shown in Fig. 15 through 18. Early systems obtained without the 121A connecting units should follow the methods shown in Fig. 19 through 21.

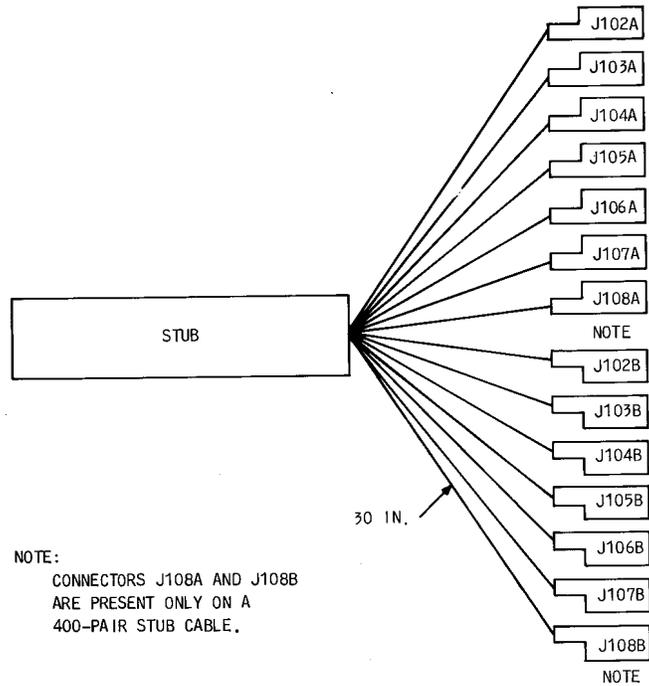


Fig. 14—Stub Cable Connectors

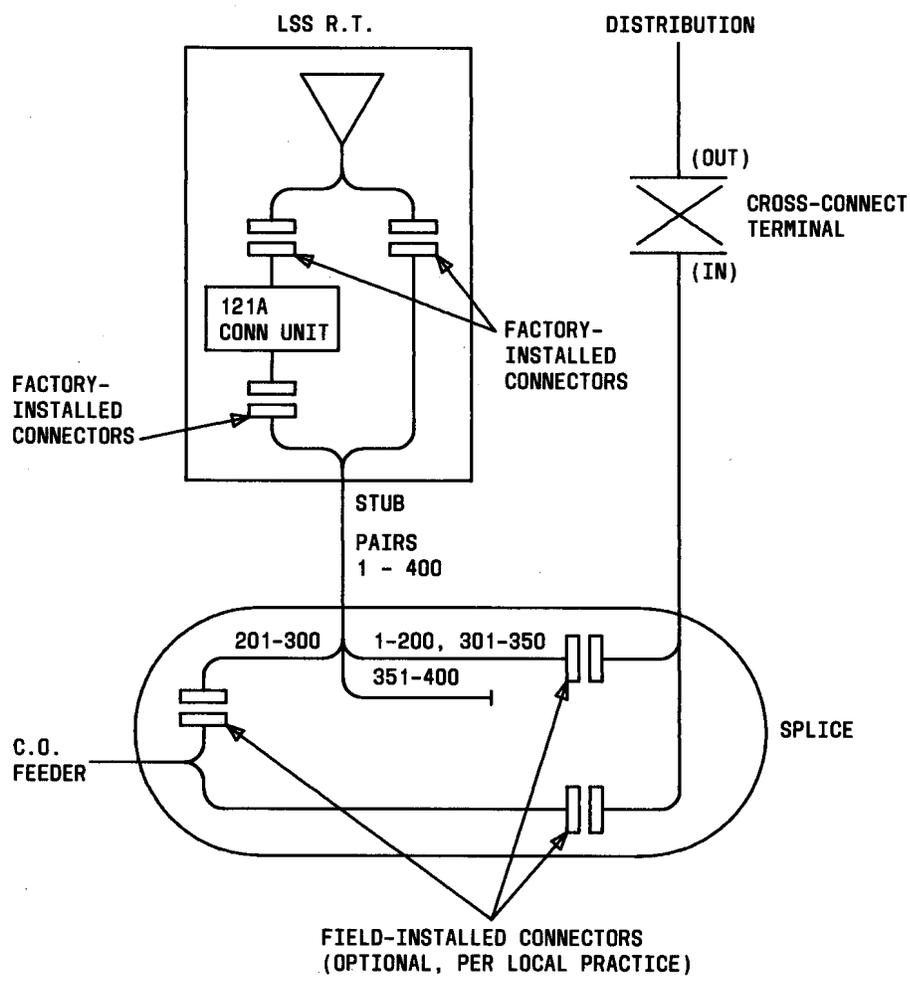


Fig. 15—Splicing Arrangements With 121A Connecting Unit

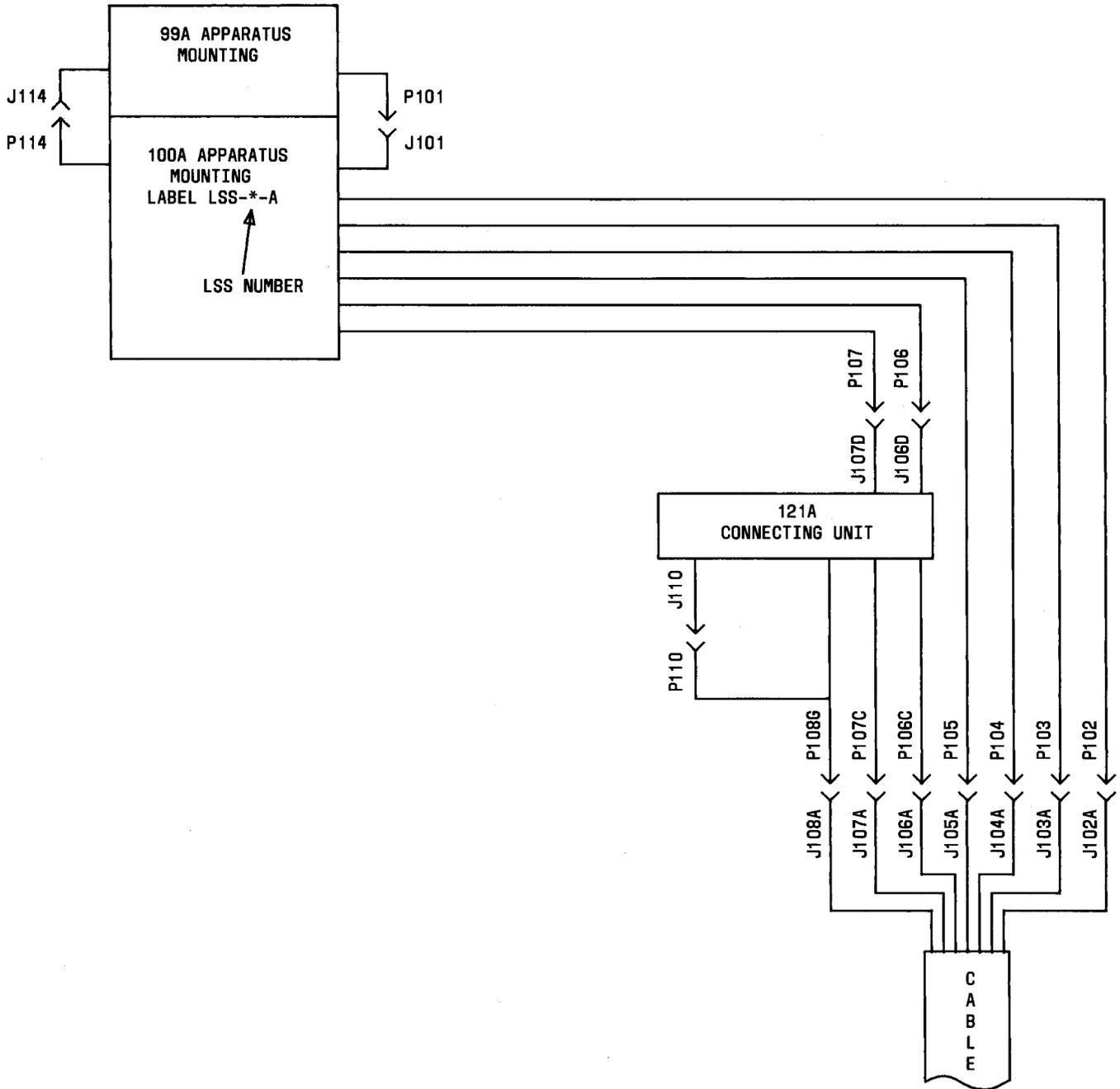


Fig. 16—Stub Cable Connectors Mated With Connectors on One 100A Apparatus Mounting (System A) and a 121A Connecting Unit

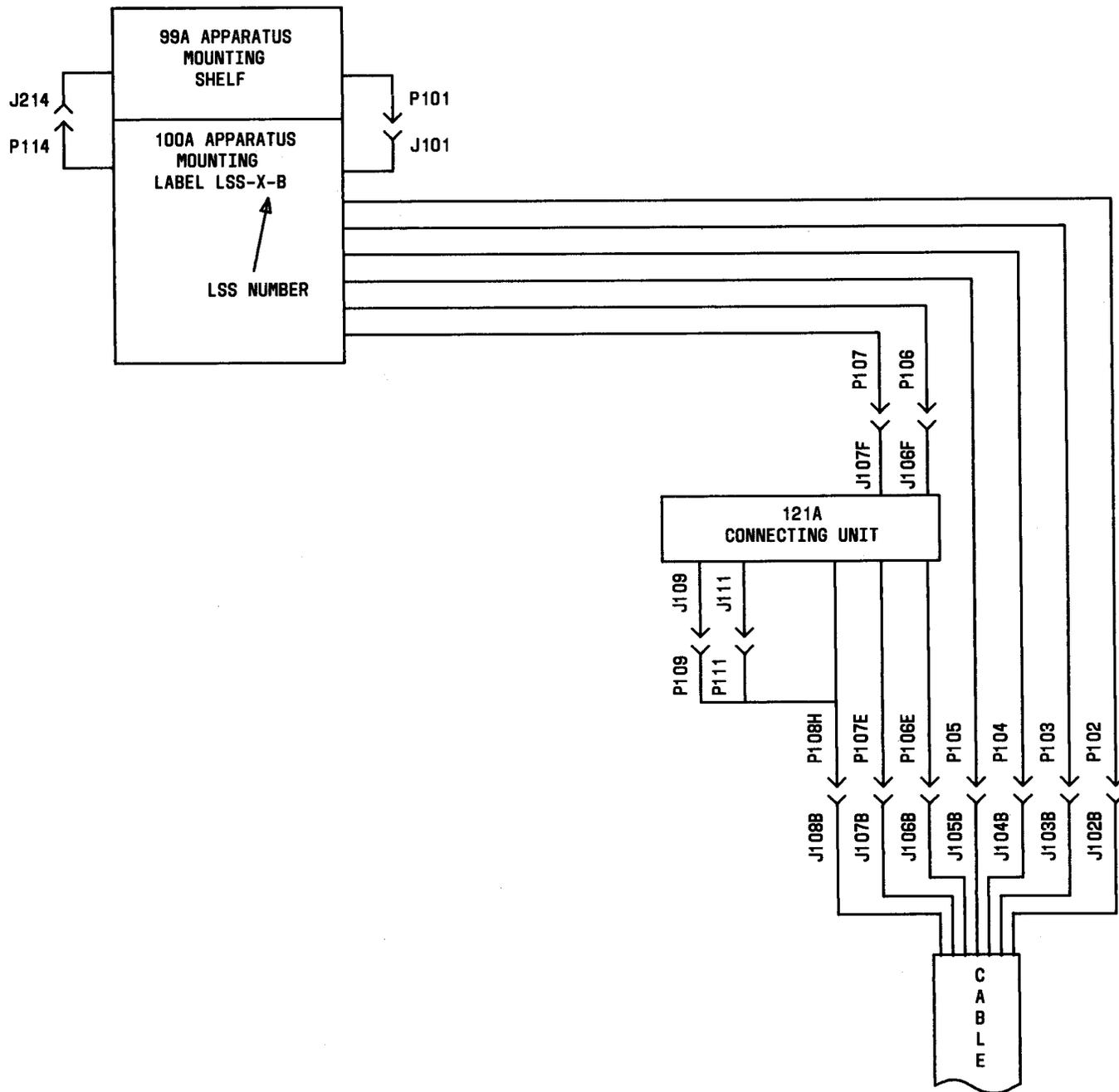
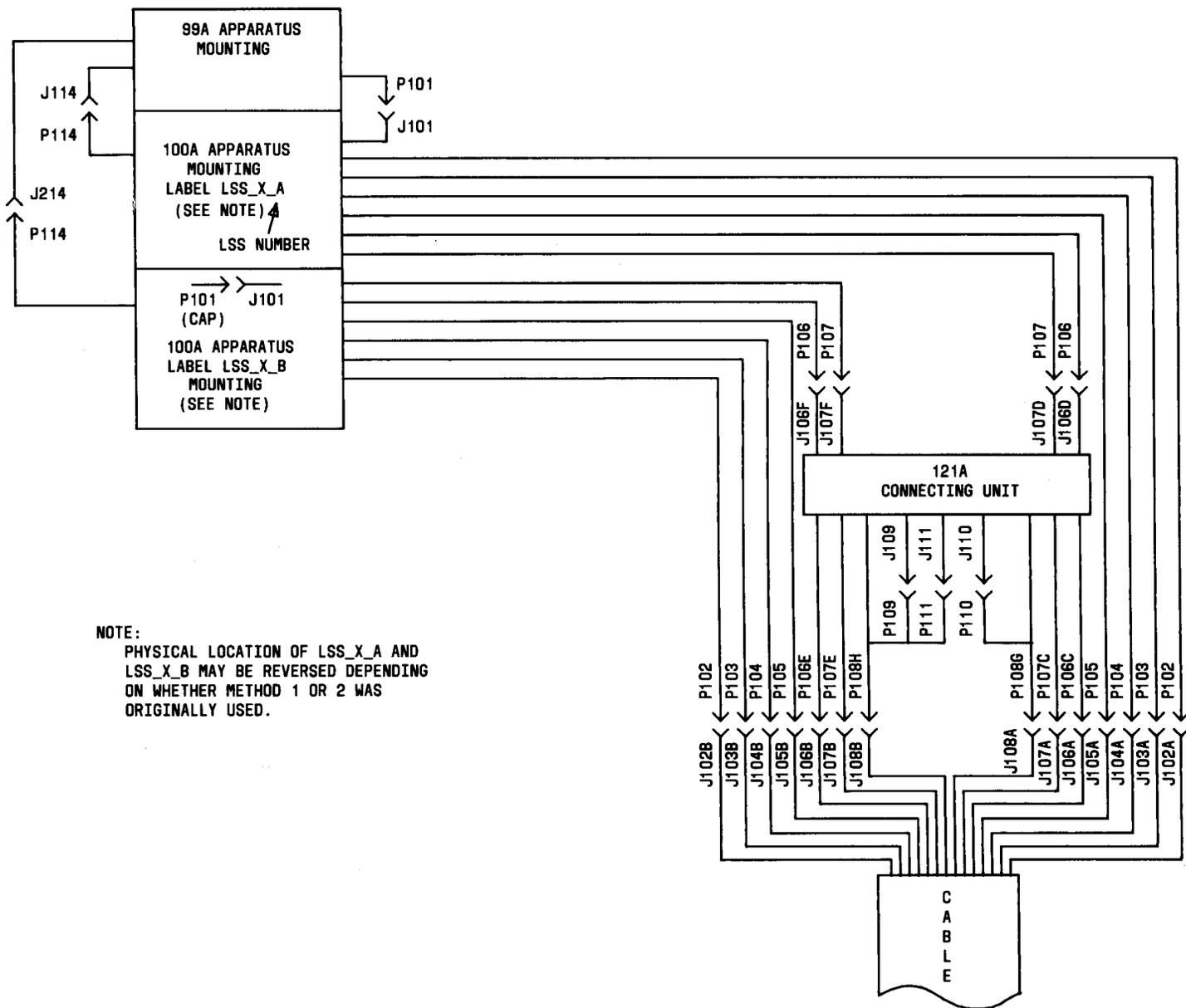


Fig. 17—Stub Cable Connectors Mated With Connectors on One 100A Apparatus Mounting (System B) and a 121A Connecting Unit



NOTE:
 PHYSICAL LOCATION OF LSS_X_A AND
 LSS_X_B MAY BE REVERSED DEPENDING
 ON WHETHER METHOD 1 OR 2 WAS
 ORIGINALLY USED.

Fig. 18—Stub Cable Connectors Mated With Connectors on 100A Apparatus Mountings and 121A Connecting Unit

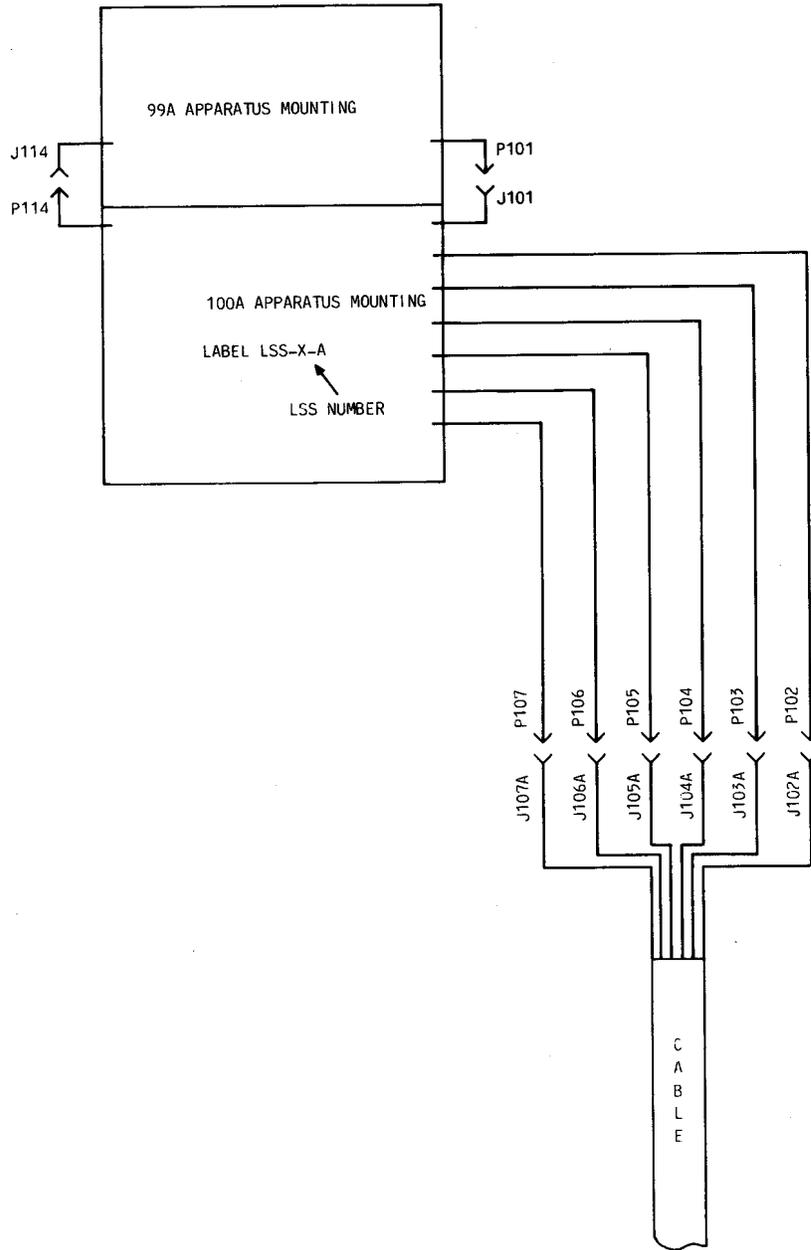


Fig. 19—Stub Cable Connectors Mated With Connectors on 100A Apparatus Mounting (System A)

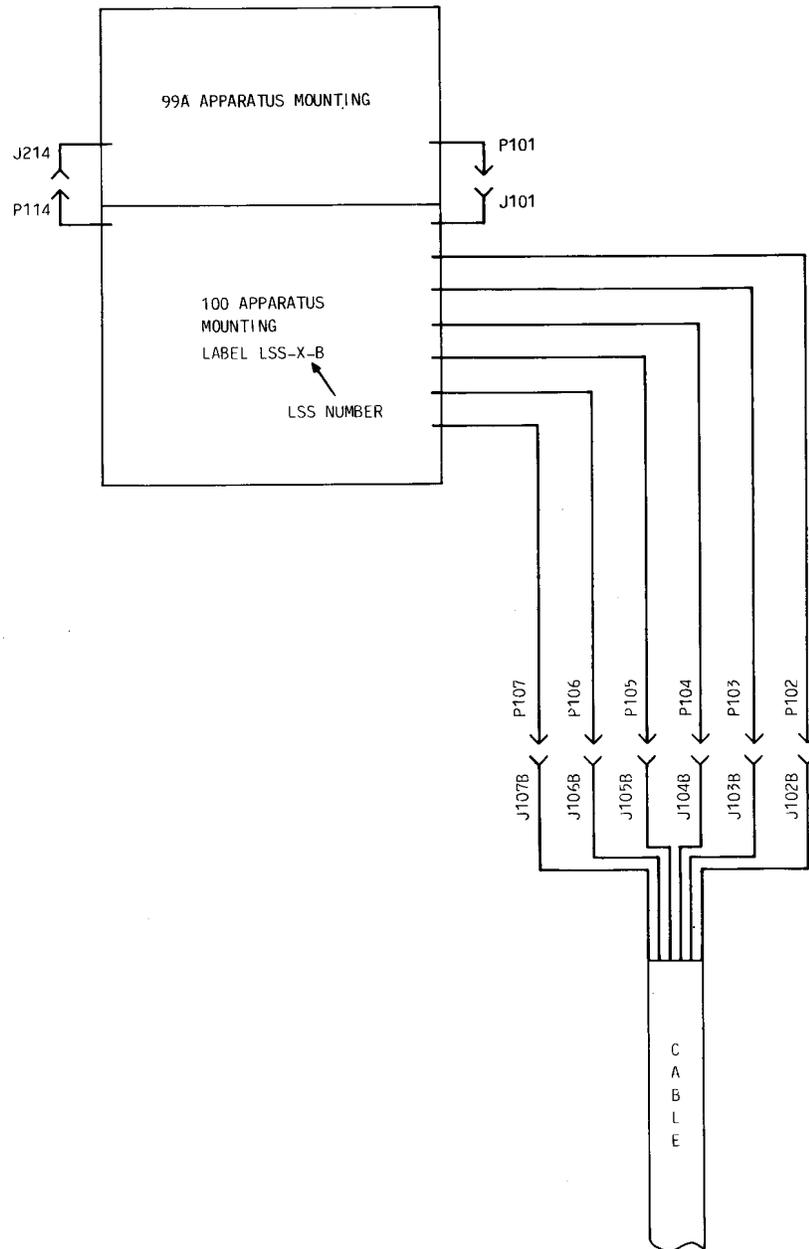
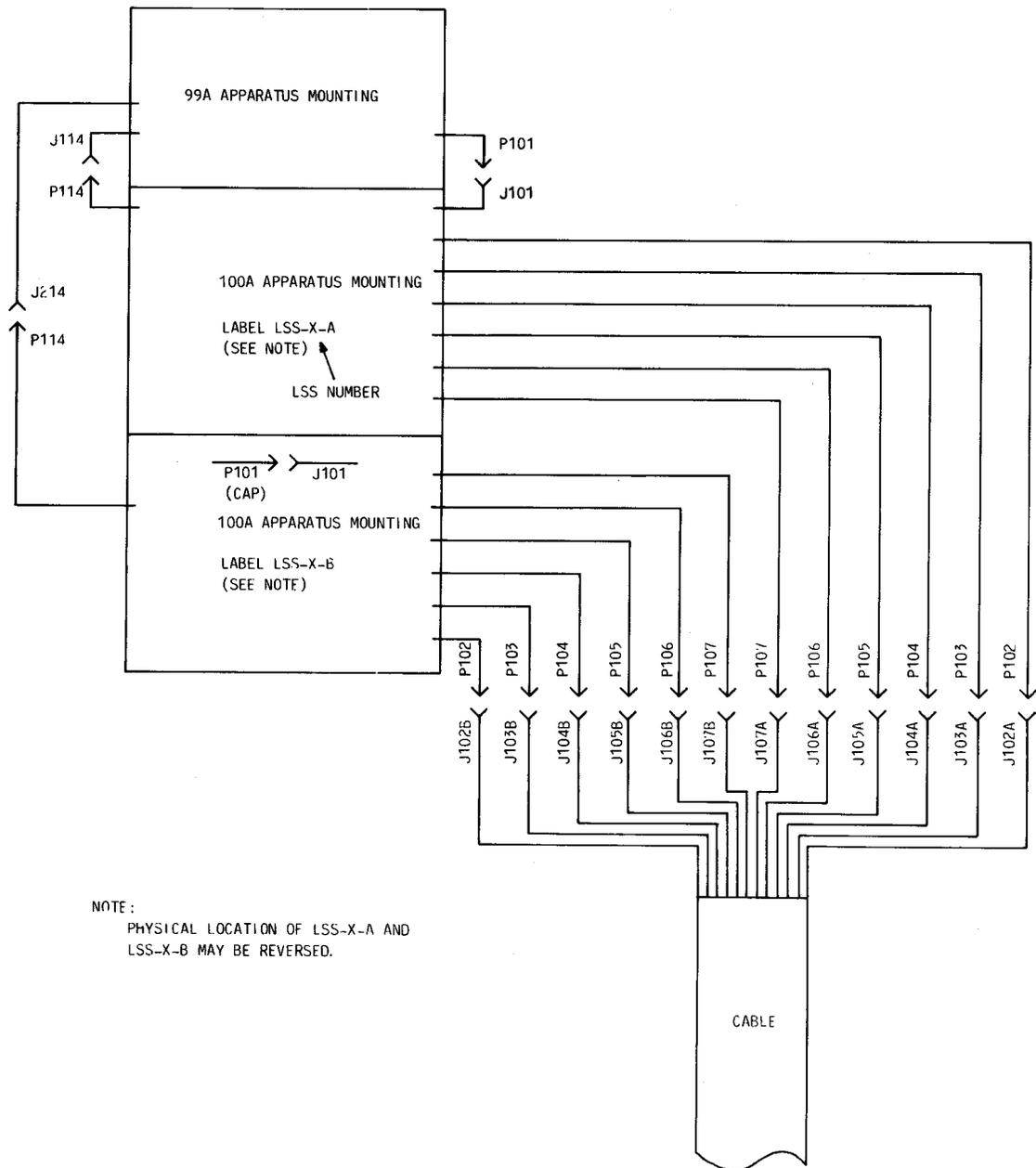


Fig. 20—Stub Cable Connector Mated With Connectors on 100A Apparatus Mounting (System B)



NOTE:
 PHYSICAL LOCATION OF LSS-X-A AND
 LSS-X-B MAY BE REVERSED.

Fig. 21—Stub Cable Connectors Mated With Connectors on 100A Apparatus Mounting (Systems A and B)

4.02 Splice the unconnectorized end of the stub cable to the assigned feeder pairs from the CO and terminate the remaining pairs in a separate cross-connecting terminal or interface as outlined on engineering work print (Fig. 15 and 22). Tables A and B list by pair number in the stub cable the

function of each pair; eg, derived feeder, trunk, data link, order wire, or spare pair.

4.03 Place special service markers on the trunk data link pairs which appear in the interface when the 121A connecting unit is used.

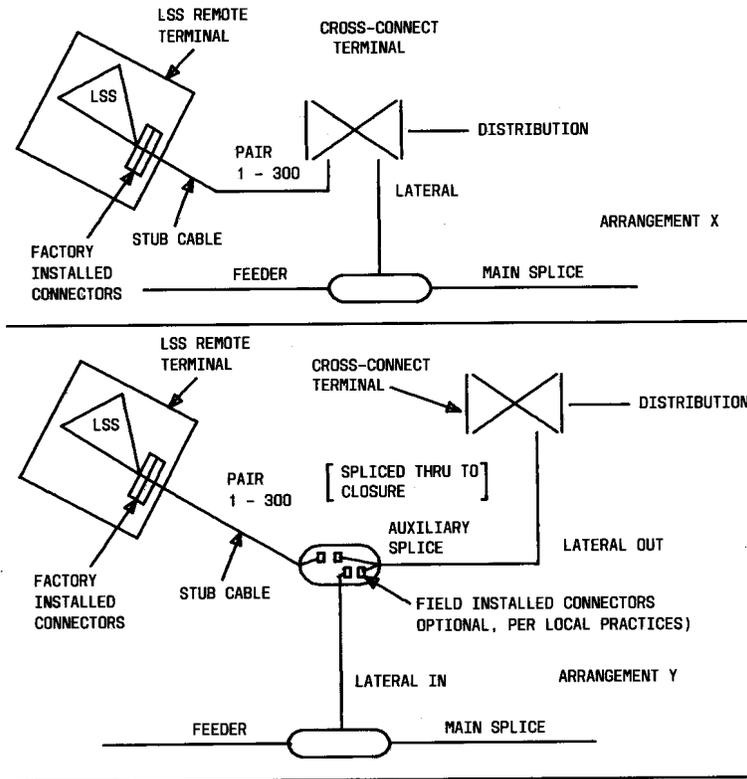


Fig. 22—Splicing Arrangements Without 121A Connecting Unit

TABLE A

STUB CABLE PAIR FUNCTIONS – DERIVED FEEDER
(PAIRS 01 THROUGH 200)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		LINE UNIT CKT PACK
			NO.	PIN					
				RING	TIP				
W BL	W BL	01	J102A	1	26	A	Line	1	1
	W O	02		2	27			2	
	W G	03		3	28			3	
	W BR	04		4	29			4	
	W S	05		5	30			5	
	R BL	06		6	31			6	
	R O	07		7	32			7	
	R G	08		8	33			8	1
	R BR	09		9	34			9	2
	R S	10		10	35			10	
	BK BL	11		11	36			11	
	BK O	12		12	37			12	
	BK G	13		13	38			13	
	BK BR	14		14	39			14	
	BK S	15		15	40			15	
	Y BL	16		16	41			16	2
	Y O	17		17	42			17	3
	Y G	18		18	43			18	
	Y BR	19		19	44			19	
	Y S	20		20	45			20	
	V BL	21		21	46			21	
	V O	22		22	47			22	
	V G	23		23	48			23	
	V BR	24		24	49			24	3
W BL	V S	25	J102A	25	50	A	Line	25	4

TABLE A (Contd)

STUB CABLE PAIR FUNCTIONS – DERIVED FEEDER
(PAIRS 01 THROUGH 200)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		LINE UNIT CKT PACK
			NO.	PIN					
				RING	TIP				
W O	W BL	26	J103A	1	26	A	Line	26	4
	W O	27		2	27			27	
	W G	28		3	28			28	
	W BR	29		4	29			29	
	W S	30		5	30			30	
	R BL	31		6	31			31	
	R O	32		7	32			32	4
	R G	33		8	33			33	5
	R BR	34		9	34			34	
	R S	35		10	35			35	
	BK BL	36		11	36			36	
	BK O	37		12	37			37	
	BK G	38		13	38			38	
	BK BR	39		14	39			39	
	BK S	40		15	40			40	5
	Y BL	41		16	41			41	6
	Y O	42		17	42			42	
	Y G	43		18	43			43	
	Y BR	44		19	44			44	
	Y S	45		20	45			45	
	V BL	46		21	46			46	
	V O	47		22	47			47	
	V G	48		23	48			48	6
	V BR	49		24	49			49	7
W O	V S	50	J103A	25	50	A	Line	50	7

TABLE A (Contd)

STUB CABLE PAIR FUNCTIONS – DERIVED FEEDER
(PAIRS 01 THROUGH 200)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		LINE UNIT CKT PACK
			NO.	PIN			Line	51	
				RING	TIP				
W G	W BL	51	J104A	1	26	A	Line	51	7
	W O	52		2	27			52	
	W G	53		3	28			53	
	W BR	54		4	29			54	
	W S	55		5	30			55	
	R BL	56		6	31			56	7
	R O	57		7	32			57	8
	R G	58		8	33			58	
	R BR	59		9	34			59	
	R S	60		10	35			60	
	BK BL	61		11	36			61	
	BK O	62		12	37			62	
	BK G	63		13	38			63	
	BK BR	64		14	39			64	8
	BK S	65		15	40			65	9
	Y BL	66		16	41			66	
	Y O	67		17	42			67	
	Y G	68		18	43			68	
	Y BR	69		19	44			69	
	Y S	70		20	45			70	
	V BL	71		21	46			71	
	V O	72		22	47			72	9
	V G	73		23	48			73	10
	V BR	74		24	49			74	10
W G	V S	75	J104A	25	50	A	Line	75	10

TABLE A (Contd)

STUB CABLE PAIR FUNCTIONS – DERIVED FEEDER
(PAIRS 01 THROUGH 200)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		LINE UNIT CKT PACK
			NO.	PIN			Line	76	
				RING	TIP				
W BR	W BL	76	J105A	1	26	A	Line	76	10
	W O	77		2	27			77	
	W G	78		3	28			78	
	W BR	79		4	29			79	
	W S	80		5	30			80	10
	R BL	81		6	31			81	11
	R O	82		7	32			82	
	R G	83		8	33			83	
	R BR	84		9	34			84	
	R S	85		10	35			85	
	BK BL	86		11	36			86	
	BK O	87		12	37			87	
	BK G	88		13	38			88	11
	BK BR	89		14	39			89	12
	BK S	90		15	40			90	
	Y BL	91		16	41			91	
	Y O	92		17	42			92	
	Y G	93		18	43			93	
	Y BR	94		19	44			94	
	Y S	95		20	45			95	
	V BL	96		21	46	A	Line	96	12
	V O	97		22	47	—	—	Dead	—
	V G	98		23	48	—	—	Dead	—
	V BR	99		24	49	—	—	Dead	—
W BR	V S	100	J105A	25	50	—	—	Dead	—

TABLE A (Contd)

STUB CABLE PAIR FUNCTIONS – DERIVED FEEDER
(PAIRS 01 THROUGH 200)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		LINE UNIT CKT PACK
			NO.	PIN					
				RING	TIP				
W S	W BL	101	J102B	1	26	B	Line	1	1
	W O	102		2	27			2	
	W G	103		3	28			3	
	W BR	104		4	29			4	
	W S	105		5	30			5	
	R BL	106		6	31			6	
	R O	107		7	32			7	
	R G	108		8	33			8	1
	R BR	109		9	34			9	2
	R S	110		10	35			10	
	BK BL	111		11	36			11	
	BK O	112		12	37			12	
	BK G	113		13	38			13	
	BK BR	114		14	39			14	
	BK S	115		15	40			15	
	Y BL	116		16	41			16	2
	Y O	117		17	42			17	3
	Y G	118		18	43			18	
	Y BR	119		19	44			19	
	Y S	120		20	45			20	
	V BL	121		21	46			21	
	V O	122		22	47			22	
	V G	123		23	48			23	
	V BR	124		24	49			24	3
W S	V S	125	J102B	25	50	B	Line	25	4

TABLE A (Contd)

STUB CABLE PAIR FUNCTIONS – DERIVED FEEDER
(PAIRS 01 THROUGH 200)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		LINE UNIT CKT PACK
			NO.	PIN			Line		
				RING	TIP				
R BL	W BL	126	J103B	1	26	B	26	4	
	W O	127		2	27		27		
	W G	128		3	28		28		
	W BR	129		4	29		29		
	W S	130		5	30		30		
	R BL	131		6	31		31		
	R O	132		7	32		32	4	
	R G	133		8	33		33	5	
	R BR	134		9	34		34		
	R S	135		10	35		35		
	BK BL	136		11	36		36		
	BK O	137		12	37		37		
	BK G	138		13	38		38		
	BK BR	139		14	39		39		
	BK S	140		15	40		40	5	
	Y BL	141		16	41		41	6	
	Y O	142		17	42		42		
	Y G	143		18	43		43		
	Y BR	144		19	44		44		
	Y S	145		20	45		45		
	V BL	146		21	46		46		
	V O	147		22	47		47		
	V G	148		23	48		48	6	
	V BR	149		24	49		49	7	
R BL	V S	150	J103B	25	50	B	Line 50	7	

TABLE A (Contd)

STUB CABLE PAIR FUNCTIONS—DERIVED FEEDER
(PAIRS 01 THROUGH 200)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		LINE UNIT CKT PACK
			NO.	PIN			Line	51	
				RING	TIP				
R O	W BL	151	J104B	1	26	B	Line	51	7
	W O	152		2	27			52	
	W G	153		3	28			53	
	W BR	154		4	29			54	
	W S	155		5	30			55	
	R BL	156		6	31			56	7
	R O	157		7	32			57	8
	R G	158		8	33			58	
	R BR	159		9	34			59	
	R S	160		10	35			60	
	BK BL	161		11	36			61	
	BK O	162		12	37			62	
	BK G	163		13	38			63	
	BK BR	164		14	39			64	8
	BK S	165		15	40			65	9
	Y BL	166		16	41			66	
	Y O	167		17	42			67	
	Y G	168		18	43			68	
	Y BR	169		19	44			69	
	Y S	170		20	45			70	
	V BL	171		21	46			71	
	V O	172		22	47			72	9
	V G	173		23	48			73	10
	V BR	174		24	49			74	10
R O	V S	175	J104B	25	50	B	Line	75	10

TABLE A (Contd)

STUB CABLE PAIR FUNCTIONS-DERIVED FEEDER
(PAIRS 01 THROUGH 200)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		LINE UNIT CKT PACK
			NO.	PIN					
				RING	TIP				
R G	W BL	176	J105B	1	26	B	Line	76	10
	W O	177		2	27			77	
	W G	178		3	28			78	
	W BR	179		4	29			79	
	W S	180		5	30			80	10
	R BL	181		6	31			81	11
	R O	182		7	32			82	
	R G	183		8	33			83	
	R BR	184		9	34			84	
	R S	185		10	35			85	
	BK BL	186		11	36			86	
	BK O	187		12	37			87	
	BK G	188		13	38			88	11
	BK BR	189		14	39			89	12
	BK S	190		15	40			90	
	Y BL	191		16	41			91	
	Y O	192		17	42			92	
	Y G	193		18	43			93	
	Y BR	194		19	44			94	
	Y S	195		20	45			95	
	V BL	196		21	46	B	Line	96	12
	V O	197		22	47	-	-	Dead	-
	V G	198		23	48	-	-	Dead	-
	V BR	199		24	49	-	-	Dead	-
R G	V S	200	J105B	25	50	-	-	Dead	-

TABLE B

STUB CABLE PAIR FUNCTIONS WITH AND WITHOUT 121A CONNECTING UNIT
(PAIRS 201 THROUGH 400)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		BINDING POST ON 121A CONN UNIT	
			NO.	PIN			WITHOUT 121A CONN UNIT	WITH 121A CONN UNIT	IN	OUT
				RING	TIP					
R BR	W BL	201	J106A	1	26	A	Trunk 1	Trunk 1	1	
	W O	202		2	27		2	2	2	
	W G	203		3	28		3	3	3	
	W BR	204		4	29		4	4	4	
	W S	205		5	30		5	5	5	
	R BL	206		6	31		6	6	6	
	R O	207		7	32		7	7	7	
	R G	208		8	33		8	8	8	
	R BR	209		9	34		9	9	9	
	R S	210		10	35		10	10	10	
	BK BL	211		11	36		11	11	11	
	BK O	212		12	37		12	12	12	
	BK G	213		13	38		13	13	13	
	BK BR	214		14	39		14	14	14	
	BK S	215		15	40		15	15	15	
	Y BL	216		16	41		16	16	16	
	Y O	217		17	42		17	17	17	
	Y G	218		18	43		18	18	18	
	Y BR	219		19	44		19	19	19	
	Y S	220		20	45		20	20	20	
	V BL	221		21	46		21	21	21	
	V O	222		22	47		22	22	22	
	V G	223		23	48		23	23	23	
	V BR	224		24	49		24	24	24	
R BR	V S	225	J106A	25	50	A	Trunk 25	Trunk 25	25	

TABLE B (Contd)

STUB CABLE PAIR FUNCTIONS WITH AND WITHOUT 121A CONNECTING UNIT
(PAIRS 201 THROUGH 400)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		BINDING POST ON 121A CONN UNIT	
			NO.	PIN			WITHOUT 121A CONN UNIT	WITH 121A CONN UNIT	IN	OUT
				RING	TIP					
R S	W BL	226	J107A	1	26	A	Trunk 26	Trunk 26	26	
	W O	227		2	27		Trunk 27	Trunk 27	27	
	W G	228		3	28		Trunk 28	Trunk 28	28	
	W BR	229		4	29		Trunk 29	Trunk 29	29	
	W S	230		5	30		Trunk 30	Trunk 30	30	
	R BL	231		6	31		Trunk 31, Alt. Data 1	Trunk 31, Alt. Data 1	31	
	R O	232		7	32		Trunk 32, Alt. Data 2	Trunk 32, Alt. Data 2	32	
	R G	233		8	33		Trunk 31, Main Data 1	Trunk 31, Main Data 1	33	
	R BR	234		9	34		Trunk 32, Main Data 2	Trunk 32, Main Data 2	34	
	R S	235		10	35		Dead	Order Wire or Spare Fdr IN	35	
	BK BL	236*		11	36			Spare Feeder IN	36	
	BK O	237*		12	37				37	
	BK G	238*		13	38				38	
	BK BR	239*		14	39				39	
	BK S	240*		15	40				40	
	Y BL	241*		16	41				41	
	Y O	242*		17	42				42	
	Y G	243*		18	43				43	
	Y BR	244*		19	44				44	
	Y S	245*		20	45				45	
	V BL	246*		21	46				46	
	V O	247*		22	47				47	
	V G	248*		23	48				48	
	V BR	249*		24	49		Dead		49	
R S	V S	250*	J107A	25	50	A	Order Wire	Spare Feeder IN	50	

*These pairs can be assigned to trunks in the 121A connecting unit or to customers in the interface.

TABLE B (Contd)

STUB CABLE PAIR FUNCTIONS WITH AND WITHOUT 121A CONNECTING UNIT
(PAIRS 201 THROUGH 400)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		BINDING POST ON 121A CONN UNIT	
			NO.	PIN			WITHOUT 121A CONN UNIT	WITH 121A CONN UNIT	IN	OUT
				RING	TIP					
BK BL	W BL	251	J106B	1	26	B	Trunk 1	Trunk 1	1	
	W O	252		2	27		2	2	2	
	W G	253		3	28		3	3	3	
	W BR	254		4	29		4	4	4	
	W S	255		5	30		5	5	5	
	R BL	256		6	31		6	6	6	
	R O	257		7	32		7	7	7	
	R G	258		8	33		8	8	8	
	R BR	259		9	34		9	9	9	
	R S	260		10	35		10	10	10	
	BK BL	261		11	36		11	11	11	
	BK O	262		12	37		12	12	12	
	BK G	263		13	38		13	13	13	
	BK BR	264		14	39		14	14	14	
	BK S	265		15	40		15	15	15	
	Y BL	266		16	41		16	16	16	
	Y O	267		17	42		17	17	17	
	Y G	268		18	43		18	18	18	
	Y BR	269		19	44		19	19	19	
	Y S	270		20	45		20	20	20	
	V BL	271		21	46		21	21	21	
	V O	272		22	47		22	22	22	
	V G	273		23	48		23	23	23	
	V BR	274		24	49		24	24	24	
BK BL	V S	275	J106B	25	50	B	Trunk 25	Trunk 25	25	

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TABLE B (Contd)

STUB CABLE PAIR FUNCTIONS WITH AND WITHOUT 121A CONNECTING UNIT
(PAIRS 201 THROUGH 400)

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		BINDING POST ON 121A CONN UNIT		REMARKS
			NO.	PIN			WITHOUT 121A CONN UNIT	WITH 121A CONN UNIT	IN	OUT	
				RING	TIP						
BK O	W BL	276	J107B	1	26	B	Trunk 26	Trunk 26	26		
	W O	277		2	27		Trunk 27	Trunk 27	27		
	W G	278		3	28		Trunk 28	Trunk 28	28		
	W BR	279		4	29		Trunk 29	Trunk 29	29		
	W S	280		5	30		Trunk 30	Trunk 30	30		
	R BL	281		6	31		Trunk 31, Alt. Data 1*	Trunk 31, Alt. Data 1*	31		
	R O	282		7	32		Trunk 32, Alt. Data 2*	Trunk 32, Alt. Data 2*	32		
	R G	283		8	33		Trunk 31* Main Data 1* Dead†	Trunk 31* Main Data 1* Spare Fdr IN†	33		See Note 1
	R BR	284		9	34		Trunk 32* Main Data 1* Dead†	Trunk 32* Main Data 2* Spare Fdr IN†	34		See Note 1
	R S	285		10	35		Dead	Order Wire* or Spare Fdr IN †	35		See Note 1
	BK BL	286		11	36			Spare Feeder IN	36		See Note 2
	BK O	287		12	37				37		
	BK G	288		13	38				38		
	BK BR	289		14	39				39		
	BK S	290		15	40				40		
	Y BL	291		16	41				41		
	Y O	292		17	42				42		
	Y G	293		18	43				43		
	Y BR	294		19	44				44		
	Y S	295		20	45				45		
	V BL	296		21	46				46		
	V O	297		22	47				47		
	V G	298		23	48				48		
	V BR	299		24	49		Dead		49		
BK O	V S	300	J107B	25	50	B	(Order Wire*) (Dead†)	Spare Feeder IN	50		See Note 2

Note 1: When available as spare feeder IN, these pairs can be assigned to customers but not to trunks, because these pairs appear on binding posts that do not accept jumpers in the 121A connecting unit.

Note 2: These pairs can be assigned to trunks in the 121A connecting unit or to customers in the interface.

*Not used for this function if system A is in the same remote terminal.

†Used for this function if system A is in the same remote terminal.

TABLE B (Contd)

STUB CABLE PAIR FUNCTIONS WITH AND WITHOUT 121A CONNECTING UNIT
(PAIRS 201 THROUGH 400)⁽¹⁾

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		BINDING POST ON 121A CONN UNIT	
			NO.	RING	TIP		WITHOUT 121A CONN UNIT	WITH 121A CONN UNIT	IN	OUT
BK G	W BL	301	J108A	1	26	A	Dead	Dead		
	W O	302		2	27					
	W G	303		3	28					
	W BR	304		4	29					
	W S	305		5	30					
	R BL	306		6	31					
	R O	307		7	32					
	R G	308		8	33					
	R BR	309		9	34			Dead		
	R S	310*		10	35			Order Wire or Spare Fdr OUT		35
	BK BL	311		11	36			Spare Feeder OUT		36
	BK O	312		12	37					37
	BK G	313		13	38					38
	BK BR	314		14	39					39
	BK S	315		15	40					40
	Y BL	316		16	41					41
	Y O	317		17	42					42
	Y G	318		18	43					43
	Y BR	319		19	44					44
	Y S	320		20	45					45
	V BL	321		21	46					46
	V O	322		22	47					47
	V G	323		23	48					48
	V BR	324		24	49					49
BK G	V S	325	J108A	25	50	A	Dead	Spare Feeder OUT		50

Note 1: This table does not apply if the stub cable has 300 pairs.

*Engaging connectors J110/P110 extends this pair to the interface.

TABLE B (Contd)

STUB CABLE PAIR FUNCTIONS WITH AND WITHOUT 121A CONNECTING UNIT
(PAIRS 201 THROUGH 400)⁽¹⁾

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		BINDING POST ON 121A CONN UNIT		REMARKS
			NO.	PIN			WITHOUT 121A CONN UNIT	WITH 121A CONN UNIT	IN	OUT	
				RING	TIP						
BK BR	W BL	326	J108B	1	26	B	Dead	Dead			
	W O	327		2	27						
	W G	328		3	28						
	W BR	329		4	29						
	W S	330		5	30						
	R BL	331		6	31						
	R O	332		7	32			Dead			
	R G	333		8	33			Spare Feeder OUT*		33	See Note 2
	R BR	334		9	34			Spare Feeder OUT*		34	See Note 2
	R S	335		10	35			Order Wire† or Spare Fdr OUT†		35	See Note 3
	BK BL	336		11	36			Spare Feeder OUT		36	
	BK O	337		12	37					37	
	BK G	338		13	38					38	
	BK BR	339		14	39					39	
	BK S	340		15	40					40	
	Y BL	341		16	41					41	
	Y O	342		17	42					42	
	Y G	343		18	43					43	
	Y BR	344		19	44					44	
	Y S	345		20	45					45	
	V BL	346		21	46					46	
	V O	347		22	47					47	
	V G	348		23	48					48	
	V BR	349		24	49					49	
BK BR	V S	350	J108B	25	50	B	Dead	Spare Feeder OUT		50	

Note 1: This table does not apply if the stub cable has 300 pairs.

Note 2: Engaging connectors J109/P109 extends these pairs to the interface.

Note 3: Engaging connectors J111/P111 extends this pair to the interface.

*Used for this function if system A is in the same remote terminal.

†Not used for this function if system A is in the same remote terminal.

TABLE B (Contd)

STUB CABLE PAIR FUNCTIONS WITH AND WITHOUT 121A CONNECTING UNIT
(PAIRS 201 THROUGH 400)⁽¹⁾

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		BINDING POST ON 121A CONN UNIT	
			NO.	PIN			WITHOUT 121A CONN UNIT	WITH 121A CONN UNIT	IN	OUT
				RING	TIP					
BK S	W BL	351	—	1	26	—	Dead	Dead		
	W O	352	—	2	27	—				
	W G	353	—	3	28	—				
	W BR	354	—	4	29	—				
	W S	355	—	5	30	—				
	R BL	356	—	6	31	—				
	R O	357	—	7	32	—				
	R G	358	—	8	33	—				
	R BR	359	—	9	34	—				
	R S	360	—	10	35	—				
	BK BL	361	—	11	36	—				
	BK O	362	—	12	37	—				
	BK G	363	—	13	38	—				
	BK BR	364	—	14	39	—				
	BK S	365	—	15	40	—				
	Y BL	366	—	16	41	—				
	Y O	367	—	17	42	—				
	Y G	368	—	18	43	—				
	Y BR	369	—	19	44	—				
	Y S	370	—	20	45	—				
	V BL	371	—	21	46	—				
	V O	372	—	22	47	—				
	V G	373	—	23	48	—				
	V BR	374	—	24	49	—				
BK S	V S	375	—	25	50	—	Dead	Dead		

Note 1: This table does not apply if the stub cable has 300 pairs.

TABLE B (Contd)

STUB CABLE PAIR FUNCTIONS WITH AND WITHOUT 121A CONNECTING UNIT
(PAIRS 201 THROUGH 400)⁽¹⁾

BINDER COLOR	PAIR COLOR	PAIR NO.	CONNECTOR			SYSTEM	FUNCTION		BINDING POST ON 121A CONN UNIT	
			NO.	PIN			WITHOUT 121A CONN UNIT	WITH 121A CONN UNIT	IN	OUT
				RING	TIP					
Y BL	W BL	376	—	1	26	—	Dead	Dead		
	W O	377	—	2	27	—				
	W G	378	—	3	28	—				
	W BR	379	—	4	29	—				
	W S	380	—	5	30	—				
	R BL	381	—	6	31	—				
	R O	382	—	7	32	—				
	R G	383	—	8	33	—				
	R BR	384	—	9	34	—				
	R S	385	—	10	35	—				
	BK BL	386	—	11	36	—				
	BK O	387	—	12	37	—				
	BK G	388	—	13	38	—				
	BK BR	389	—	14	39	—				
	BK S	390	—	15	40	—				
	Y BL	391	—	16	41	—				
	Y O	392	—	17	42	—				
	Y G	393	—	18	43	—				
	Y BR	394	—	19	44	—				
	Y S	395	—	20	45	—				
	V BL	396	—	21	46	—				
	V O	397	—	22	47	—				
	V G	398	—	23	48	—				
	V BR	399	—	24	49	—				
Y BL	V S	400	—	25	50	—	Dead	Dead		

Note 1: This table does not apply if the stub cable has 300 pairs.

