

TYPE 120A SINGLE-SLOT COIN TELEPHONE SET
DESCRIPTION AND INSTALLATION

1. GENERAL

1.01 This addendum to Issue 5 of this section adds information on conductor loop limits.

1.02 The changes previously included in Issue 2 of this addendum are also included in this issue. The changes appearing for the first time in this addendum are shown by marginal indicators.

1.03 Microfiche Copy Recipients. Remove Issue 5, Addendum 2 of this section from the file and replace it with the microfiche copy identified as Issue 5, Addendum 3. Changes are not marked in the replacing copy.

1.04 Paper Copy Recipients. In ink or red pencil, make the changes indicated in part 2 of this addendum. Write "See Addendum" in the margin next to each change. File this addendum directly in front of the addended section.

2. CHANGES

2.01 Add the following to the last sentence in paragraph 1.01: "or emergency prepay service."

2.02 Remove and destroy pages 3 and 4 of this section and replace them with the new pages 3 and 4 attached to this addendum.

2.03 Replace Table 2 with Table 2 of this addendum.

2.04 Change the first sentence of paragraph 3.33 to read as follows:

A newly designed handset (L-9080) containing the D-51030-B capsule is available for use on the Type 120A telephone.

2.05 Add the following to paragraph 3.33:

On handsets manufactured after January, 1979, the transmitter and receiver caps will be permanently bonded to the handset shell. A 1-1/2 inch by 3-inch card will be placed inside the telephone set housing by the installer to alert the repairman that the L-9080 handset contains caps which are permanently bonded to the handset shell. The card will read as follows:

This handset has transmitter and receiver caps that are permanently bonded to the handset shell. Any attempts to repair or salvage the receiver and transmitter units should be done by rehab centers since it requires the destruction of the handset shell and caps.

2.06 After paragraph 3.33, add the following paragraph:

3.34 When installing the L-9080 handset, remove the 1-1/2 by 3-inch card from the protective plastic bag surrounding the handset and place the card inside the telephone set housing.

2.07 In paragraph 4.03, change step (e) to read as follows:

- (e) Lock the hopper door in the collect position. This is done by moving the door with the pin located in the left bottom corner of the hopper assembly and locking the door in this position with a 4-40 by 1/8-inch screw, part No. D-762044-A. The screw is inserted into the tapped hole adjacent to the door lever in the lower left-hand corner of the hopper assembly.

2.08 Add the following sentence to paragraph 4.20:

Refer to the 435-600 subdivision or Section 476-500-200 of GTE Practices for recommended grounding requirements.

2.09 Replace paragraph 4.31 with the following:

Retrofit of Line Wire Termination Kit

4.31 To install the retrofit line wire termination kit, part No. HH-920004-1, perform the following steps after removing the upper housing, vault door and coin box, chassis assembly, coin reject chute, and rejector assembly:

- (a) Remove the left side coin relay rail mounting screw from the vault area.
(b) Disconnect the line wires and the ground wire from the existing line wire pile-up.
(c) Replace the relay mounting screw with the shortest screw, part No. D-762047-E, provided in the retrofit kit.
(d) Place the terminal plate (provided with the kit), part No. HD-781015-A, on the mechanism base with the cutout portion over the screw inserted in step (c).

NOTE: For all installations of parts, the L1, G, and L2 designations are kept to the installer's right.

- (e) Place the washer (provided), part No. D-17345-A, over the screw, install the nut (provided), part No. D-7701-A, and tighten.

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- (f) Place the terminal block (provided), part No. HD-150058-A, onto the terminal plate and secure it with the two remaining screws (provided), part No. D-762047-F.
- (g) Place one spade terminal of the 14-gauge ground wire strap assembly (provided), part No. HD-540162-A, under a ground terminal screw on the terminal block (Figure 14). Place the remaining spade terminal of the ground wire strap assembly under one of the terminal block mounting screws. Tighten the screws down securely.
- (h) Verify continuity between the ground terminal screw and a distant point on the telephone housing.

NOTE: Do not connect any other wires except the ground wire strap assembly to the ground terminal during this test.

- (i) If discontinuity is detected, clean the paint from the contacting surfaces, reassemble, and test until the defect is cleared.
- (j) Attach the smaller spade end of the three-conductor strap cable, part No. HD-540106-A, to the left side row of the terminal screws of the terminal block and bend the barrel portion up 90 degrees.
- (k) Terminate the other end of the strap cable to the line pileup terminal screws of the existing line wire pileup.
- (l) Route the line wire and the ground wire to the right side row of the terminal screws of the terminal block of the mechanism base and terminate. Refer to the 435-600 subdivision or Section 476-500-200 of GTE Practices for recommended external grounding requirements.

NOTE: When routing the line wire, ground wire, and strap cable, care should be taken that none of these wires are routed so that they would be under the chassis assembly when it is reinstalled.

- (m) Replace the rejector assembly, the coin reject chute, and the chassis assembly. Check for proper routing of the wires and make certain that no wires are pinched under the chassis assembly frame.
- (n) Replace the upper housing, the new coin box, and the vault door.

2.10 Add the following sentence to the end of paragraph 6.02:

To collect, the central office applies coin battery (+) to L2 (TIP) and (-) to ground; to refund, the central office applies coin battery (-) to L2 (TIP) and (+) to ground.

2.11 In paragraph 8.02, after step (f), add the following:

NOTE: Later issues of the Type 120A telephone use a dry-reed relay rather than a mercury-wetted relay.

2.12 In Table 4, step 10, change the FIELD ACTION column to read as follows:

Replace coin chute and trigger switch assembly or replace coin relay-hopper coin chute assembly.

2.13 In paragraph 8.03, after step (d), add the following:

NOTE: Later issues of the Type 120A telephone use two small independent coil springs to return the latches, rather than one common flat (VANE) spring.

2.14 Add the new page 28a attached to this addendum to Issue 5 of this section.

Attached: Page 3 of 28 dated November 1979, revised.
Page 4 of 28 dated November 1979, reissued.
Page 28a of 28a dated November 1979, added.

I Table 2. Type 120A Coin Telephone Conductor Loop Limits.

TYPE OF CENTRAL OFFICE	PREPAY		SEMIPOSTPAY	
	WITHOUT LOOP EXTENDER (OHMS)	WITH LOOP EXTENDER (OHMS)	WITHOUT LOOP EXTENDER (OHMS)	WITH LOOP EXTENDER (OHMS)
SxS	1,200	2,600*	1,200	3,200
CXP-5	1,600	2,600	1,600	4,000
C-1 EAX	1,400	2,600	1,400	3,600
No. 1 EAX	1,600	3,900	Service not offered	
No. 2 EAX	1,600	2,600	1,600	4,000

*Limit is based on 0-Vdc earth potential. With -3-Vdc or greater earth potential, loop extender is not usable due to coin-detection failure.

NOTES:

1. Test Conditions – Office battery: 48 Vdc
Ground resistance: 50 ohms
Earth potential: 0 Vdc
Minimum coin battery:

No. 1 EAX: 135 Vdc (135 to 145 Vdc)
All other systems: 100 Vdc (100 to 120 Vdc)

2. Loop extension equipment by Lorain Products Corp. Model SRM-169 loop extender strapped S-1.
3. If an extension telephone is used with the Type 120A telephone, a loop limit of 800 ohms without a loop extender or 1,900 with the Lorain SRM-169 loop extender must be observed to provide a minimum of 10 mA to the coin telephone during periods when the coin telephone and extension are off-hook simultaneously.
4. If longer loop operation is required, the extension telephone must be modified by adding series diodes to the telephone so that its dc resistance matches that of the coin telephone. When an extension is used with a Type 120A telephone, wire two FD-1029-LD zener diodes (3.3 volts, 1 watt), connected anode to anode in series with the tip or ring conductor of the extension. This change to the extension telephone will allow the coin telephone to be used at the higher table limits.