

TELEPHONE SETS—322 TYPE

1. GENERAL

1.01 This section covers the identification, installation, connections, and maintenance of 322-type telephone sets.

1.02 This section is reissued to:

- Show the 322A (manual) telephone set rated Manufacture Discontinued (MD).
- Revise Table A.

1.03 The G-type hand set mountings may be used in elevators with standard subscriber sets, or nonflush wall sets, such as the 554-type telephone set.

2. IDENTIFICATION

2.01 The 322C is a flush-mounted, wall type dial telephone set designed to be used in elevators. It may also be used in corridors and in building entrances (Fig. 1).

2.02 The 322A (manual) telephone set is rated MD. To convert a 322C telephone set from dial to manual, replace the 6A dial with a 94A apparatus blank.

2.03 The 4E buzzer and capacitor (1 uf) provide a low impedance ringing bridge and can be used on individual lines and PBX stations only if there are no additional ringing bridges on the same line.

2.04 The 4E buzzer is used instead of a ringer to conserve space. It cannot be biased to avoid tapping while dialing or during switchhook operation.

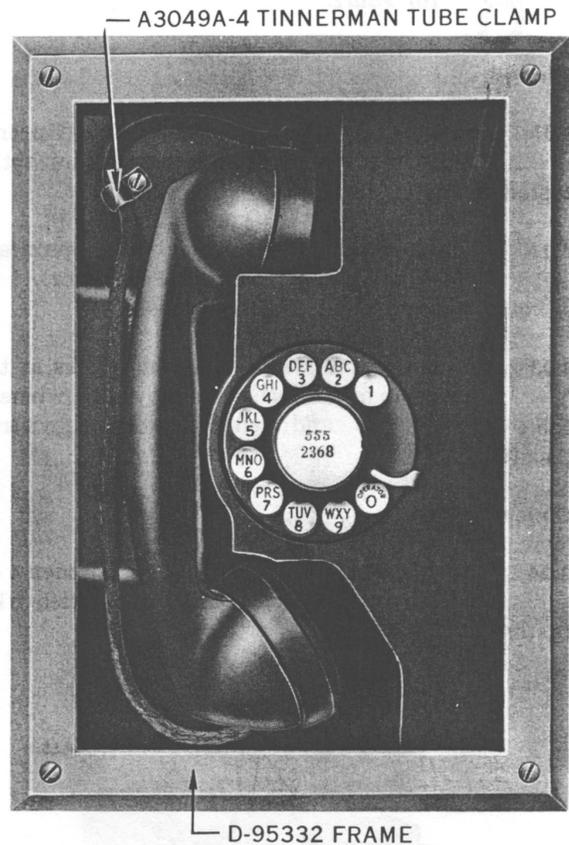


Fig. 1 — 322-Type Telephone Set, Front View

2.05 Use of low impedance buzzer in 322-type telephone sets at PBX stations generally will not permit through dialing on night connections. However, should the night connections feature be required, or an extension station or an extension ringer be provided, disconnect buzzer and provide a high impedance ringing bridge with a 687A subscriber set, or equivalent, at a nearby location (in cab if an elevator installation). Local ordinances may, in some cases, prohibit connecting elevator telephones as PBX stations.

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2.06 The D-95334 outlet boxes and D-95332 frames must be ordered separately and should be given to the customer for installation.

3. INSTALLATION



It is not permissible for a telephone company employee to enter any elevator shaft.

Wiring

3.01 Elevator cable conductors should be provided, installed, and maintained by the customer.

3.02 These conductors may be in a separate trailer cable or be spare conductors in elevator signaling and control cables.

3.03 Mount terminals or connecting blocks at a location outside the elevator shaft where cable conductors and telephone station wires terminate.

Outlet Boxes

3.04 Outlet boxes furnished by the customer or telephone company should be installed by customer.

Caution: When outlet box is placed by customer, call his attention to the necessity of checking the clearances obtainable, especially regarding projection of outlet box into elevator shaft.

3.05 It is recommended that as a general proposition the standard D-95334 outlet box (Fig. 2) be mounted in a recess 10-1/4 inches high, 7-1/4 inches wide, 3 inches deep, and 53 inches from floor as illustrated in Fig. 3.

3.06 When outlet box is furnished by customer, mounting holes should be drilled and tapped for 8-32 machine screws in the same locations as those in the D-95334 outlet box, prior to being installed in its permanent location.

3.07 When 322-type telephone set is to be mounted in a door-equipped box, the minimum inside dimensions should be 7-1/4 inches wide, 10-1/4 inches high, and 3-1/2 inches deep.

3.08 Outlet box is not required where recess in wall of a building meets the minimum size, and the back surface is of wood 3/4-inch thick so that telephone set may be attached to it with three No. 8, 1-inch RH blued wood screws. Inside minimum dimensions should be 6-7/8 inches wide, 9-7/8 inches high, and 2-7/8 inches deep.

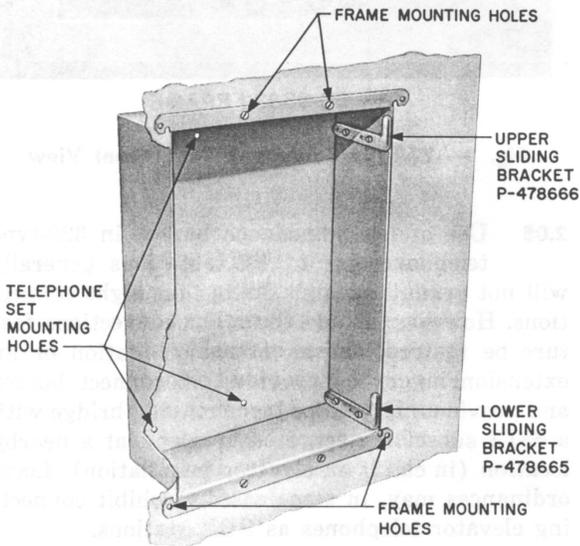


Fig. 2 - D-95334 Outlet Box

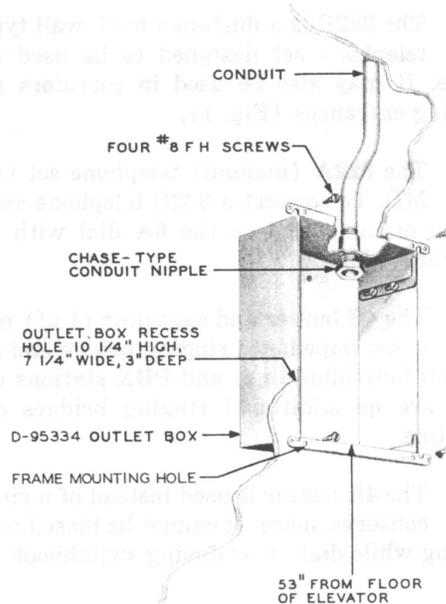


Fig. 3 - Mounting of Outlet Box

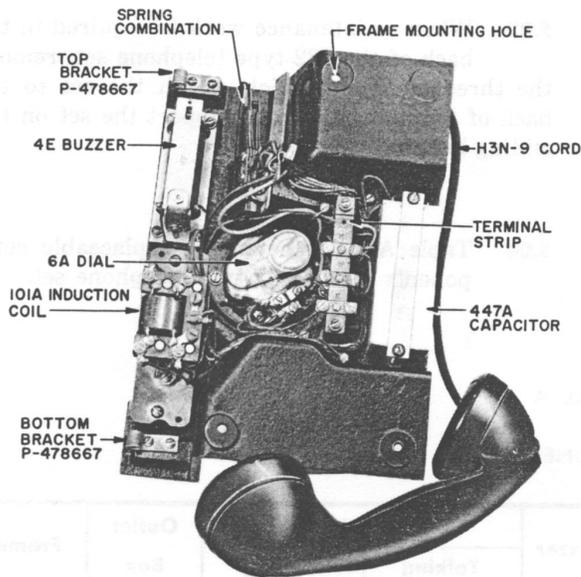


Fig. 4 — 322-Type Telephone Set, Rear View

Frames

- 3.09** Use a standard metal frame or wood molding to cover edges of recess.
- 3.10** The D-95332 frame is shown in Fig. 1.
- 3.11** The frame attaches to the outlet box with four 9/32-inch by 6-32 OH brass machine screws that are furnished with the frame.

Brackets

- 3.12** Two sliding brackets and four flister head machine screws are furnished with 322-type telephone set and are attached to outlet box at locations indicated in Fig. 2.
- 3.13** The right-angle projection on the P-478666 upper bracket is slightly longer than that on the lower bracket.

3.14 To support the 322-type set in a convenient position while making connections or adjustments, turn the set at a right-angle to the outlet box and place the P-478667 brackets (Fig. 4) over the P-478666 and P-478665 sliding brackets (Fig. 2).

3.15 Set must be removed from sliding brackets before it is attached to back of outlet box.

Subscriber Sets

3.16 When a 687A subscriber set, or equivalent, is used to provide a high impedance ringing bridge, it should be located where it can be maintained from inside the elevator.

3.17 If the customer objects to having it protrude into the elevator, it will be necessary for him to provide and install a recess, outlet box, frame, or grill.

4. CONNECTIONS

4.01 For wiring and connections of 322-type telephone set, refer to Fig. 5.

4.02 Station wiring connects directly to terminals on induction coil.

4.03 When connections are completed, remove set from sliding brackets, slide brackets back into box, place telephone set in outlet box, and attach to back of outlet box with three 3/8-inch by 8-32 BH machine screws that are furnished with telephone set.

5. MAINTENANCE

5.01 Elevator sets should be maintained from within the elevator cab, and the telephone line from points outside the elevator shaft.

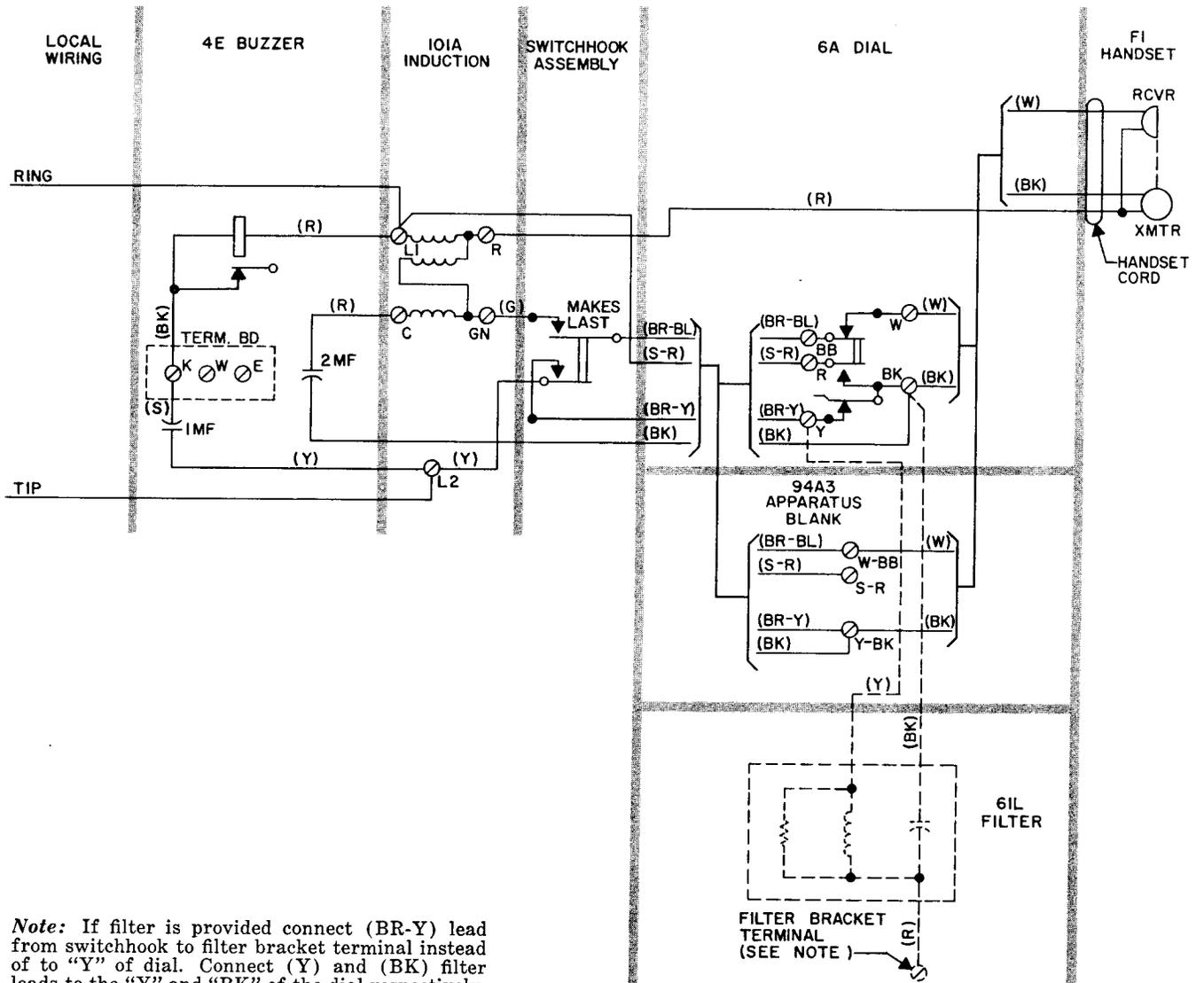
5.02 Report trouble in elevator cables between set and connecting block or terminal to the superintendent or other responsible persons in charge of elevator maintenance.

5.03 When maintenance work is required in the back of the 322-type telephone set, remove the three fasteners which attach the set to the back of the outlet box and support the set on the sliding brackets.

5.04 Table A lists the major replaceable components of the 322-type telephone set.

**TABLE A
COMPONENTS**

Handset	Cord (18")	Apparatus Blank	Dial	Induction Coil	Buzzer	Capacitor		Outlet Box	Frame
						Talking	Ringing		
F1E-3	H3N-9	94A-3	6A	101A	4E	147A (2 uf) or 447A (2 uf)	149A 1 uf or 449A 1 uf	D-95334	D-95332



Note: If filter is provided connect (BR-Y) lead from switchhook to filter bracket terminal instead of to "Y" of dial. Connect (Y) and (BK) filter leads to the "Y" and "BK" of the dial respectively.

Fig. 5 - 322-Type Telephone Set, Connections