

## PLUGS

### FOR PORTABLE TELEPHONE SETS IDENTIFICATION AND CONNECTIONS

#### 1. GENERAL

**1.04** Portable telephone sets should be kept indoors when not in use. Inform the customer how important it is to protect telephone sets from inclement weather in order to maintain good telephone service.

#### 2. IDENTIFICATION

##### 504A PLUG

**2.05** The 504A plug (Fig. 4) is made in three pieces of molded plastic and is held together by one screw and a snap-fit in the neck. Contacts are numbered 1 through 12 and match numbering on 541A jack.

**2.06** Slots are provided on plug block and shell (Fig. 5) to hold a wingband or clipped stay hook.

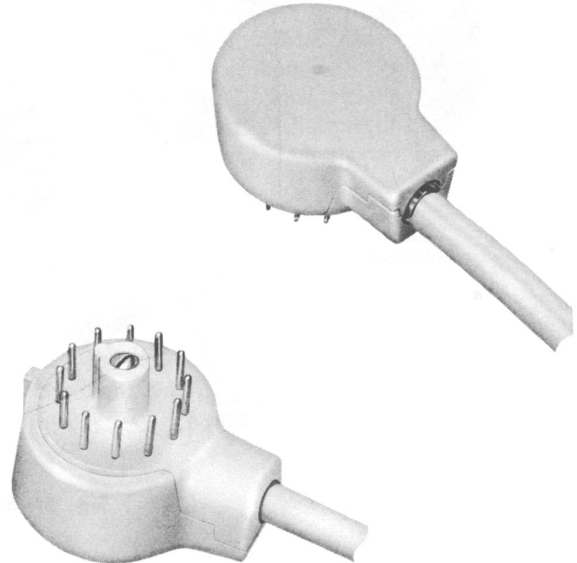


Fig. 4—504A Plug

TABLE A  
PLUGS

TYPE	NO. OF CONTACTS	COLOR	FIG. NO.	ASSOCIATED JACKS
283B	4	*	2	404B 493A (MD)
505A			6, 7	548A 497A (MD)
423A				549A KS-16151, L1 (MD)
				550A
423A		†	3	P-44E055 Mounting Block and Screw Assembly
274A	8	-49 (Lt Ol Gy) -50 (Ivory) -54 (Brown)	1	391A 392A
504A	12	*	4, 5	541A, 547A, B, 551A
KS-8419	3	Brass	8	KS-8420 KS-8421

\* Available in the following colors to match the telephone set: -3 (Black), -51 (Green), -56 (Yellow), -58 (White), -59 (Pink), -60 (Lt Beige), -61 (Lt Gray), -62 (Aqua Blue), -64 (Turquoise).

† This plug is inside the 750 telephone set and may be any color as it is made from scrap plastic.

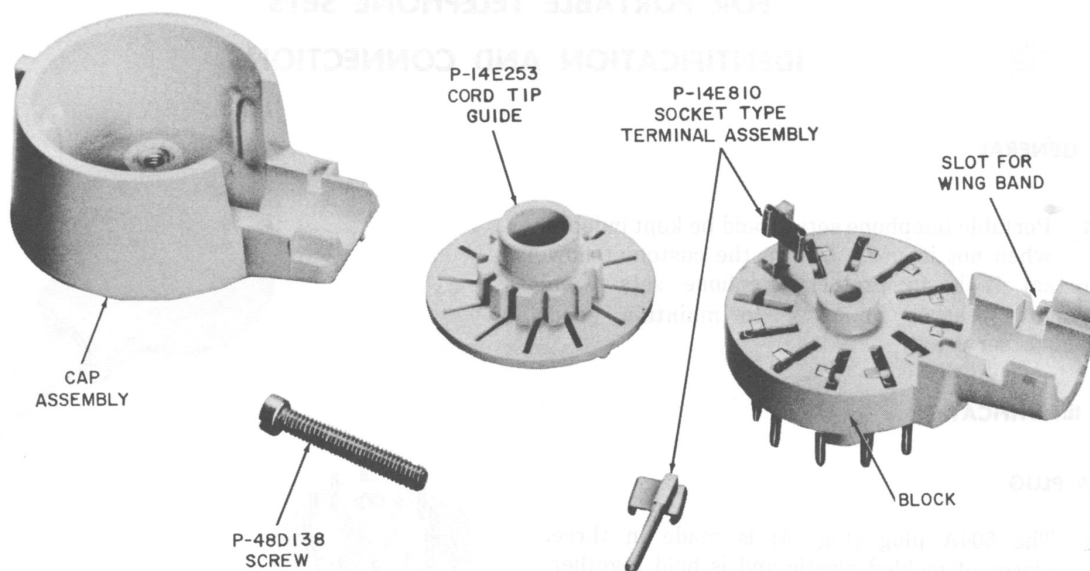


Fig. 5—504A Plug Disassembled

## 505A PLUG

2.07 The 505A plug (Fig. 6) is a 4-contact plug similar to the 504A plug, but has in addition a cord fastener (Fig. 7) which holds the cord in place while the spade tips are being connected.

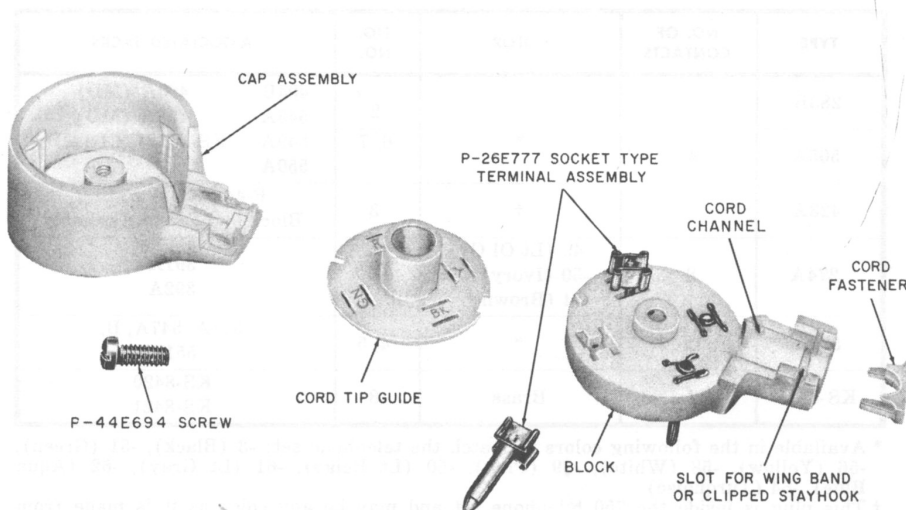


Fig. 7—505A Plug Disassembled

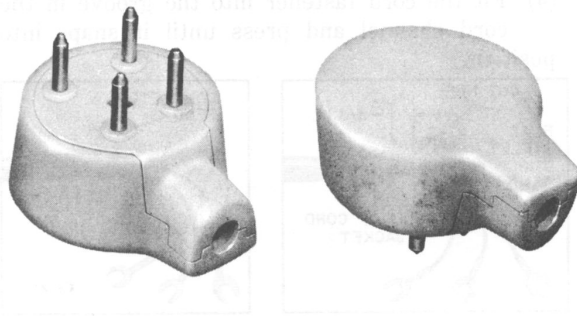


Fig. 6—505A Plug

**KS-8419 PLUG**

**2.08** The KS-8419 plug (Fig. 8) is a 3-contact, brass plug intended for connecting telephone sets installed on boats, trains, or auto trailers to outdoor jacks of PBX or CO lines. This plug is intended for use with KS-8420 or KS-8421 jacks.

**4. CONNECTIONS**

**4.01** Only one wire, cable conductor, or cord conductor shall be connected to a terminal of a plug. In some plugs, e.g. 505A, 2 socket type connectors are found on the terminal pins.

**504A PLUG**

**4.05** Place cord tip guide on block (Fig. 5). Insert mounting cord tips into socket type terminals of plug.

Dress conductors so they will lie within the cap of plug.

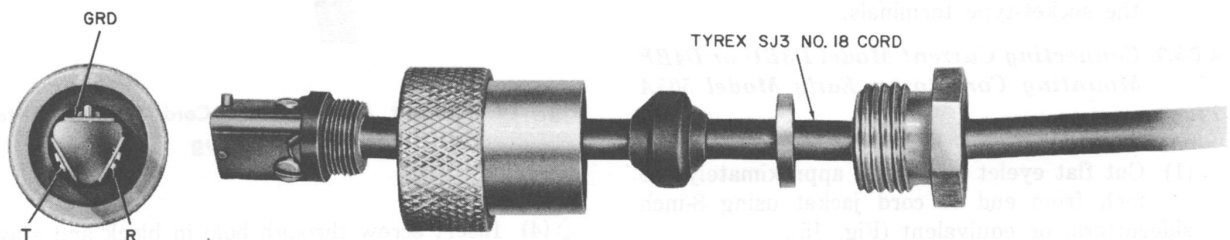


Fig. 8—KS-8419 Plug

Place wingband or stay hook and mounting cord in their proper slots.

Place cap on plug so cord and wingband or stay hook will seat properly. Be sure no leads are pinched.

Snap two sections of neck together.

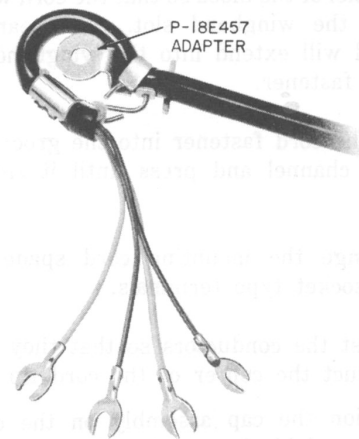


Fig. 10—D4BP Cord and Adapter

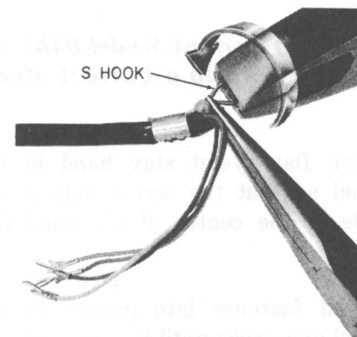


Fig. 11—Bending S Hook

**505A PLUG****4.06**

- (1) Fit the cord tip guide into place on the top of the block.
- (2) Position the mounting cord into the cord channel of the block so that the cord wingband fits into the wingband slot. One ear of the wingband will extend into the wingband slot of the cord fastener.
- (3) Fit the cord fastener into the groove in the cord channel and press until it snaps into position.
- (4) Arrange the mounting cord spade tips in the socket type terminals.
- (5) Adjust the conductors so that they will not obstruct the center of the cord tip guide.
- (6) Position the cap assembly on the cord tip guide and block; assuring that no leads are pinched.
- (7) Insert screw and tighten.

**4.06.1 Connecting Current Model D3BU or D4BP Mounting Cord to a Current Model 505A Plug:**

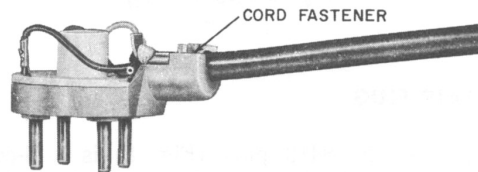
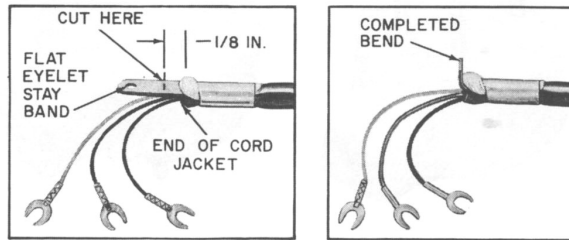
- (1) Position flat eyelet stay band in the cord channel so that the screw hole is over the screw hole in the center of the cord tip guide (see Fig. 14).
- (2) Fit cord fastener into groove in the cord channel and press until it snaps into position.
- (3) Connect the mounting cord spade tips in the socket-type terminals.

**4.06.2 Connecting Current Model D3BU or D4BP Mounting Cord to an Early Model 505A Plug:**

- (1) Cut flat eyelet stay band approximately 1/8 inch from end of cord jacket using 8-inch sidecutters, or equivalent (Fig. 15).

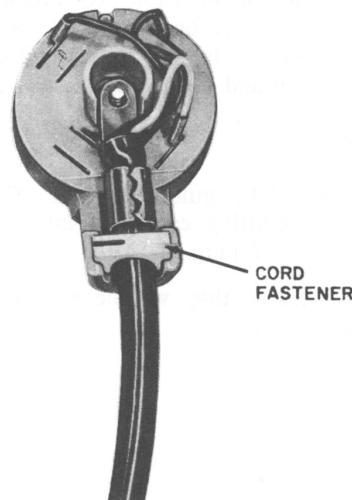
**Caution:** When cutting the stay band, take precautions to prevent the severed end from striking personnel or apparatus.

- (4) Fit the cord fastener into the groove in the cord channel and press until it snaps into position.



**Fig. 15—Connecting Current Model D3BU or D4BP Cord to Early Model 505A Plug**

- (2) Make a right angle bend in the remaining length of stay band in the direction away from the cord conductors.



**Fig. 14—Current Model D3BU Cord Connected to Current Model 505A Plug**

- (4) Insert screw through hole in block and stay band.
- (7) Position the cap assembly on the block so that the right angle bend of the stay band is supported by the inner surface of the cap assembly; check that no cord leads are pinched.

**KS-8419 PLUG****4.07**

- (1) Plug components are assembled to TYREX SJ3 No. 18 cord or equivalent (Fig. 8).
- (2) In TYREX SJ3 No. 18 cord or equivalent, the black conductor should be used for the ring (negative) side of the line. The white conductor should be used for tip (positive) side of the line. The green conductor is the ground conductor.
- (3) One terminal of the KS-8419 plug has a small lug protruding from the contact. This lug and the notched terminal on KS-8420 and KS-8421 jacks are provided to ensure that the plug is inserted in one position only.
- (4) When ground is necessary for service, the green conductor should be terminated on the notched terminal.