

## CORD REELS

### KS-14975 AND KS-16124 TYPES

### PIECE-PART DATA AND REPLACEMENT PROCEDURES

#### 1. GENERAL

1.01 This section covers the information necessary for ordering parts to be used in the maintenance of KS-14975 and KS-16124 cord reels. It also covers approved procedures for replacing these parts.

1.02 This section is reissued to add information for the KS-14975, Lists 5 and 6 cord reels.

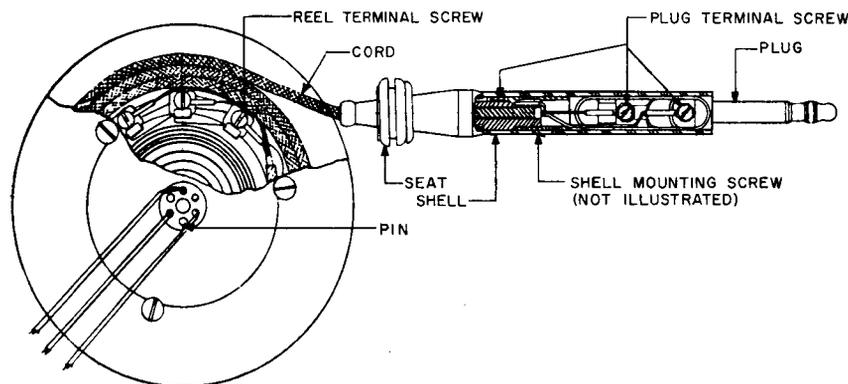
1.03 Part 2 of this section covers the piece-part numbers and the corresponding names of the parts which it is practicable to replace in the field in the maintenance of these cord reels. No attempt should be made to replace parts not designated. Part 2 also contains explanatory figures showing the different parts. This information is called Piece-part Data.

1.04 Part 3 of this section covers the approved procedures for the replacement of the parts covered in Part 2. This information is called Replacement Procedures.

#### 2. PIECE-PART DATA

2.01 The figures included in this part show the various parts in their proper relation to other parts of the cord reel.

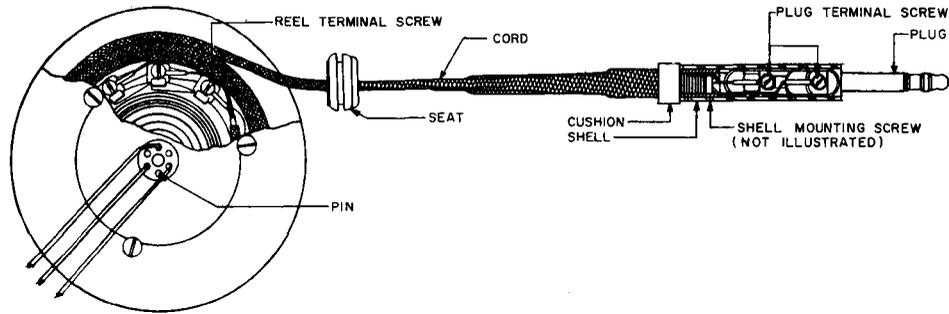
2.02 When ordering parts for replacement purposes, give both the piece-part number and the name of the piece part; for example, P-284007 screw. If a part identified by other than a piece-part number is required, order the part by the drawing number and the part name and specify the KS and list numbers of the reel on which it is to be used. For example, B-125968-2 cord for KS-14975, List 3 cord reel. Do not refer to the BSP number or to any information shown in parentheses following the part number.



CORD REEL	PLUG (LESS SHELL)	SHELL	SHELL MOUNTING SCREW	PLUG TERMINAL AND REEL TERMINAL SCREW	PIN	CORD AND SEAT
KS-14975,L1	310	B-124789	P-285371	P-284007	B-124622	See Note
KS-14975,L2	309	B-125023	P-284106	P-284007	B-124622	See Note
KS-16124,L1	310	B-124789	P-285371	P-284007	B-124898	See Note

**Note:** If either of these parts need to be replaced, the entire cord unit should be returned to the Distributing House for modification of the cord unit.

**Fig. 1 - Replacement Parts of KS-14975, Lists 1 and 2, and KS-16124, List 1 Cord Reels**



CORD REEL	CUSHION	PLUG	SHELL	SHELL MOUNTING SCREW	PLUG TERMINAL AND REEL TERMINAL SCREW	PIN	SEAT	CORD
KS-14975,L3	2A	310	P-475860	P-285371	P-284007	B-124622	B-124619	B-125968-2 (includes No. 310 plug and No. 2A cushion) or KS-16516,L2 (less No. 310 plug and No. 2A cushion)
KS-14975,L4	1A	309	P-475817	P-284106	P-284007	B-124622	B-124619	B-125968-3 (includes No. 309 plug and No. 1A cushion) or KS-16517,L1 (less No. 309 plug and No. 1A cushion)
KS-14975,L5	2A	310	P-475860	P-285371	P-284007	B-124622	B-124619	B-125968-2 (includes No. 310 plug and No. 2A cushion) or KS-16516,L2 (less No. 310 plug and No. 2A cushion)
KS-14975,L6	1A	309	P-475817	P-284186	P-284007	B-124622	B-124619	B-125968-3 (includes No. 309 plug and No. 1A cushion) or KS-16517,L1 (less No. 309 plug and No. 1A cushion)
KS-16124,L2	1A	310	P-475860	P-285371	P-284007	B-124898	B-124619	If cord needs to be replaced, the entire cord unit should be returned to the Distributing House for modification of the cord unit.
KS-16124,L3	2A	310	P-475860	P-285371	P-284007	B-124898	B-124619	B-125968-1 (includes No. 310 plug and No. 2A cushion) or KS-16516,L1 (less No. 310 plug and No. 2A cushion)

Fig. 2 - Replacement Parts of KS-14975, Lists 3, 4, 5, and 6, and KS-16124, Lists 2 and 3 Cord Reels

### 3. REPLACEMENT PROCEDURES

#### 3.01 List of Tools

CODE OR SPEC NO.	DESCRIPTION
45B	Hex. Single-end Socket Wrench
KS-2348	Cord Repair Screwdriver
KS-6854	Screwdriver
—	3-inch Cabinet Screwdriver

**3.02** No replacement procedures are specified for screws or other parts where the replacement consists of a simple operation.

**3.03** If necessary to remove a KS-14975 cord reel from a No. 508 PBX cord unit or a KS-16124 cord reel from a No. 557 PBX cord unit proceed as follows:

(a) Remove the seat from the bracket and unwind a sufficient number of turns of the cord from the reel to remove the spring tension. Remove the leads and tag the terminals. Remove the screw, with the KS-6854 screwdriver, and fiber washer from the hub of the cord reel. Lift the cord reel from the cord unit. On the No. 508 PBX, remove the tubing from the leads. On the No. 557 PBX, remove the tape which secures the cord reel leads to the insulator. Slide the insulator off the leads.

(b) New cord reels are provided with leads projecting from both sides of the hub. The leads which are not to be used should be cut flush with the hub.

(c) To remount the cord reel, slide the insulator over the leads of the cord reel and insert the three pins through the insulator and into the hub to hold the insulator in place. Place the leads in the grooves of the insulator and, on the No. 557 PBX, secure them with a piece of masking tape. Place tubing on the leads of cord reels to be mounted in cord units of the No. 508 PBX.

(d) Mount the cord reel on the cord reel mounting plate using the screw and fiber washer. Seat the reel pins in the holes of the mounting plate. If difficulty is experienced in mounting the cord reel on the mounting plate, remove the cord reel mounting plate from the cord unit by removing the three flathead screws, using the KS-6854 screwdriver, from the back of the cord unit, mount the cord reel

on the mounting plate, and secure the mounting plate to the cord unit using the three flat-head screws. Reconnect the leads and remount the seat.

(e) With the cord fully wound on the cord reel, wind two additional turns of the cord on the reel of the KS-14975 cord reel and three additional turns of the cord on the reel of the KS-16124 cord reel in the direction shown by the arrow on the reel.

**3.04** If necessary to remove a KS-14975 cord reel from a No. 520 PBX cord unit, proceed as follows:

(a) Remove the hexagon nut, using the No. 45B wrench, washer, and cord reel cover. Remove the seat from the bracket and unwind a sufficient number of turns of the cord from the reel to remove the spring tension. Remove the leads and tag the terminals. Remove the fiber washer and lift the reel off the pins.

(b) New cord reels are provided with leads projecting from both sides of the hub. The leads that are not to be used should be cut flush with the hub.

(c) Mount the cord reel to the cord unit and remount the fiber washer.

(d) With the cord fully wound on the cord reel, wind two additional turns of the cord on the reel in the direction shown by the arrow on the reel.

(e) Remount the cord reel cover, washer, and hexagon nut.

**3.05** *Cord (Equipped With Plug Assembly) for KS-14975, Lists 3, 4, 5 and 6, and KS-16124, List 3:* To replace a cord, proceed as follows:

(a) On a cord reel that is mounted in a cord unit with the heads of the reel clamping screws remote from the cord reel mounting plate, the cord reel need not be removed from the cord unit. If the heads of the reel clamping screws are adjacent to the cord reel mounting plate, the cord reel should be removed as covered in 3.03 or 3.04.

(b) Unwind the cord from the reel and, with the reel or cord unit resting on a flat horizontal surface, remove the three reel clamping screws with a 3-inch cabinet screwdriver.

(c) When disassembling the reel, exercise care that the hub is not pulled up, as it may cause the spring to fly out and be decompressed. Press downwards on the hub and with the fingers pry the upper reel half off. Remove the three reel terminal screws with the KS-2348 screwdriver and remove the cord from the reel. Remove the seat from the cord.

(d) Place the seat on the new cord and mount the cord on the reel. Mount the terminals on the cord reel with the flat side (uncrimped) outermost. Remount the reel terminal screws and reel half, making sure that the reel terminals line up with their clearance slots in the reel half. Then, on the KS-14975 cord reel, snap the reel halves together with the fingers.

(e) On all cord reels, remount the reel clamping screws and wind the cord on the reel in the direction shown by the arrows on the reel.

(f) Remount the cord reel in the cord unit as covered in 3.03 or 3.04.

(g) If a cord has been replaced on a cord reel without removing the cord reel from the cord unit, the reel should be tensioned as covered in 3.03 or 3.04.

→ **3.06 Cord (Not Equipped With Plug Assembly) for KS-14975, Lists 3, 4, 5 and 6, and KS-16124, List 3:**

(a) Remove the cord from the reel as covered in 3.05.

(b) Remove the seat from the cord. Slide the cushion off the cord. Remove the shell mounting screw with the KS-2348 screwdriver and slide off the shell. Remove the plug terminal screws which connect the red and natural conductors to the plug, using the KS-2348 screwdriver. Unscrew the plug from the cord.

(c) Remove the insulation from the blue conductor of the new cord to within 1/16 inch of the cord butt, bend the conductor back over the butt of the cord, thread the red and natural conductors into the plug, and screw the plug onto the butt of the cord until the screw holes in both conductor terminals come over their respective screw holes in the plug with a slight amount of slack.

(d) Remount the plug terminal screws, the shell, and the shell mounting screw. Exercise care not to burr the shell mounting screw. Push the cushion up to the plug shell, place the seat on the cord, and connect the cord to the reel and tension the cord as covered in 3.05.

**3.07 Plug for KS-14975, Lists 1 and 2, and KS-16124, List 1:** Remove the shell mounting screw with the KS-2348 screwdriver and slide off the shell. Remove the plug terminal screws which connect the red and natural conductors to the plug, using the KS-2348 screwdriver. Unscrew the plug from the adapter. The new plug should be assembled and connected in the reverse order. Remount the shell and shell mounting screw.

→ **3.08 Plug for KS-14975, Lists 3, 4, 5 and 6, and KS-16124, Lists 2 and 3:** Remove the shell mounting screw with the KS-2348 screwdriver and slide off shell. Remove the plug terminal screws and unscrew the plug from the cord. Thread the red and natural conductors into the new plug and, after making sure that the blue conductor is bent back over the butt of the cord, screw the plug onto the butt of the cord until the screw holes in both conductor terminals come over their respective screw holes in the plug with a slight amount of slack. Reassemble the plug terminal screws, shell, and shell mounting screw to the plug. Exercise care not to burr the shell mounting screw.

→ **3.09 Cushion for KS-14975, Lists 3, 4, 5 and 6, and KS-16124, Lists 2 and 3:** To replace a cushion on a cord which is not attached to the cord reel, remove the old cushion and slide the new cushion over the cord body beginning at the cord reel end, until it reaches the shell of the plug. To replace a cushion on a cord which is mounted on a reel and equipped with a plug, the procedures covered in Section 032-322-811 should be followed.

→ **3.10 Seat:** To replace a seat on the KS-14975, Lists 3, 4, 5 and 6, and KS-16124, Lists 2 and 3 cord reels, it is necessary to remove the plug from the cord as covered in 3.08.

**3.11 Continuity Test:** Conductors shall be checked for continuity and for absence of shorts between conductors.

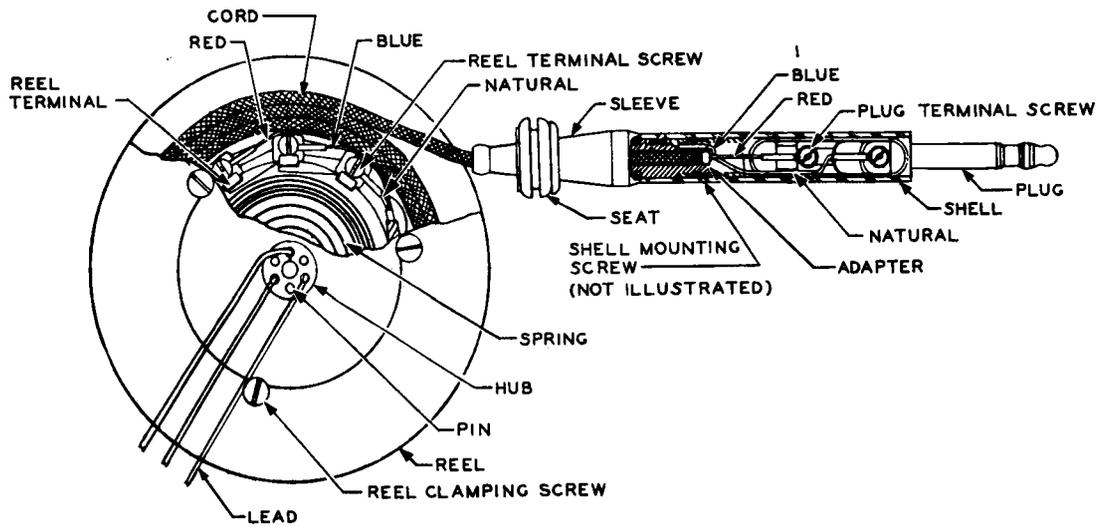


Fig. 3 - KS-14975, Lists 1 and 2, and KS-16124, List 1 Cord Reels

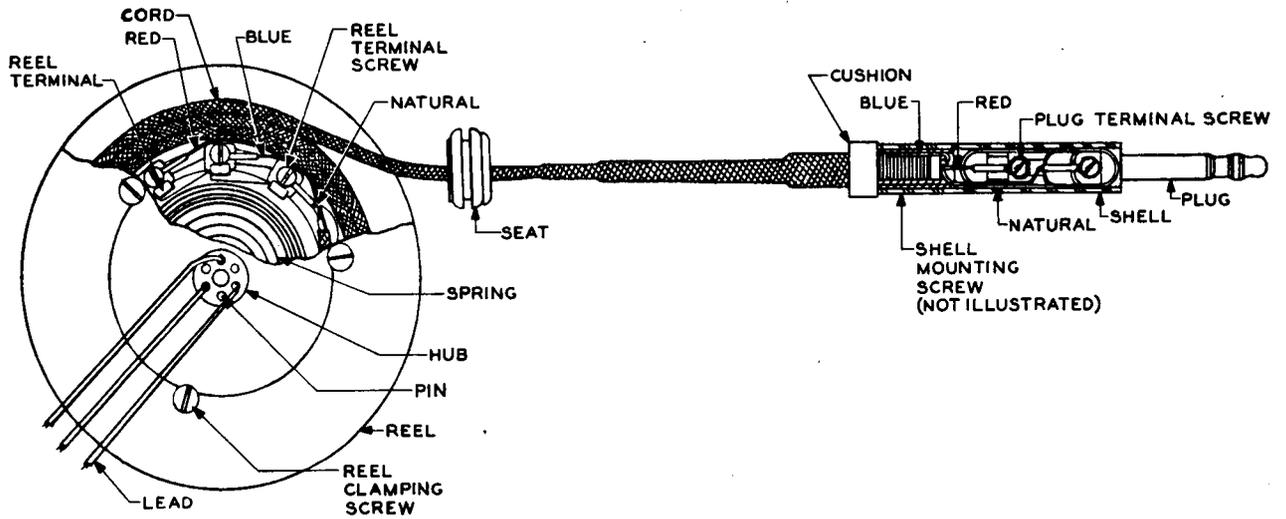


Fig. 4 - KS-14975, Lists 3, 4, 5 and 6, and KS-16124, Lists 2 and 3 Cord Reels