WIRE REELS, KS-8047

PIECE-PART DATA

1. GENERAL

1.01 This section covers the piece-part data for the KS-8047 L1 and L2 wire reels and the installation of the KS-8047 L101 automatic brake on the L1 wire reels.

1.02 This section is reissued to:

- Change List of Tools and Materials
- Correct Fig. 2, 3, and 4 in accordance with the latest mechanical configuration
- Revise the brake installation instructions
- Add 3.05.

1.03 Part 2 of this section covers the various parts which may be replaced in the field in the maintenance of this equipment. Part 2 also contains explanatory figures showing the different parts.

1.04 Part 3 of this section covers the approved procedures for replacement of parts covered in Part 2. Part 3 also covers the information necessary for the installation of the KS-8047 L101 brake kit on the KS-8047 L1 wire reels and adjustment of the L101 brake.

1.05 The KS-8047 L1 (Fig. 1) and the KS-8047 L2 (Fig. 2) wire reels consist of two flanged members mounted on a supporting arm and a wooden base. The outer flange assembly is readily removable and also compensates for variations in the width of wire coils. Three take-up springs are provided for gripping the eye of the coil. On the KS-8047 L1 wire reel, the outer flange is held on by a locking arm assembly or a retainer bar on later models. On the KS-8047 L2 wire reel, the outer flange is held on by a retainer bar which screws on the end of the shaft. The KS-8047 L1 wire reel is equipped with an adjustable drag brake. The KS-8047 L2 wire reel is equipped with a self-energizing automatic disc brake, L101.

1.06 These wire reels are intended for use in terminal rooms of central offices for holding a coil of distributing frame wire.

2. PIECE-PART DATA

2.01 The figures included in this part show the various piece-parts in their proper relations to other parts of the wire reels. Piece-part numbers are given together with names of the parts as listed by the Western Electric Merchandise Department.

2.02 When ordering replacement parts, give the piece-part number and the name of the part; for example:

P-650241, Base Pad

Do not refer to the BSP number or to any information shown in parentheses.

2.03 Information enclosed by parentheses is not ordering information. This information may be references to notes, parts referred to in other portions of the section and not considered replaceable, or part names in general use in the field if these names differ from those assigned by the manufacturer.

3. PROCEDURES

3.01 *List of Tools and Materials*

CODE OR SPEC NO.	DESCRIPTION
TOOLS	
KS-13816	15/16- and 1-inch open-end wrench
KS-6367	7/16- and 5/8-inch open-end wrench

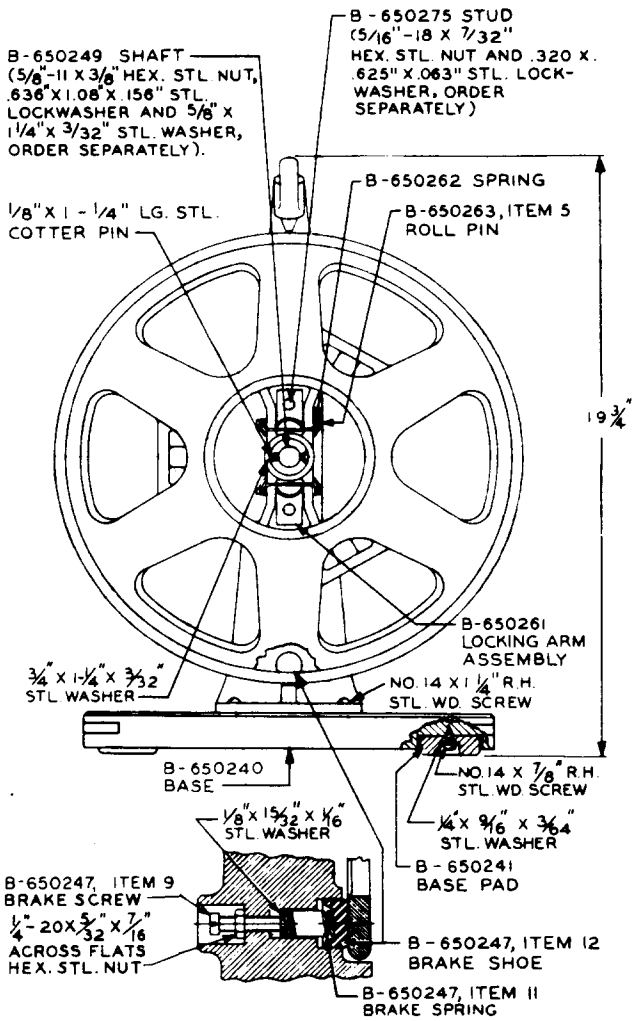

Fig. 1—Wire Reel, KS-8047 L1

CODE OR SPEC NO.	DESCRIPTION
TOOLS	
—	4-inch E screwdriver
—	B long-nose pliers
—	Drill, all-angle, Albertson & Co, No. 1495-WE
—	1/4-inch drill, twist
MATERIALS	
KS-19578 L1	◗Trichloroethane◖

3.02 No replacement procedures are specified for screws or parts where replacement procedures are obvious from visual examination of the apparatus and the illustrations.

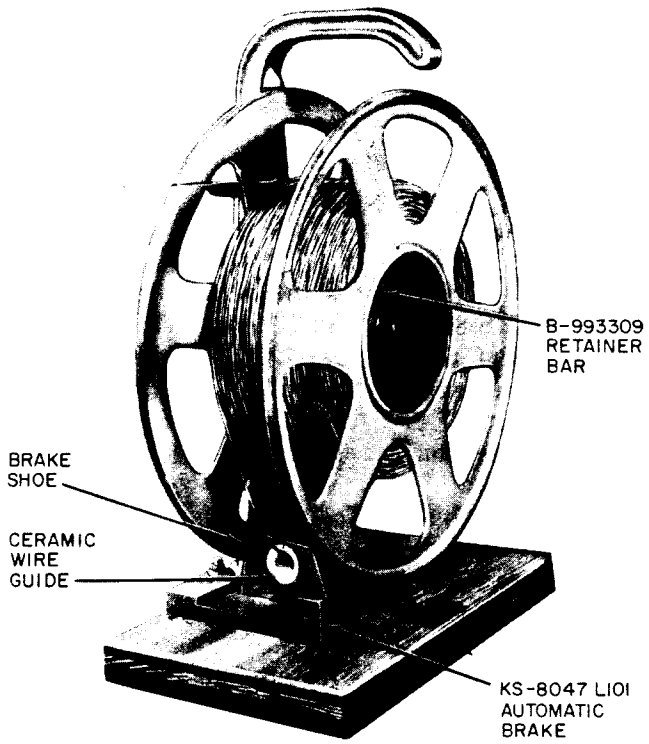

Fig. 2—◗Wire Reel, KS-8047 L2◖

3.03 *Converting a KS-8047 L1 Wire Reel to a KS-8047 L2 Wire Reel Using the KS-8047 L101 Brake Kit*

(a) ***Removal of the Drag Brake (Fig. 3)***

(1) Using the KS-13816 wrench, remove the 5/8-inch nut and internal toothed lockwasher and then separate the wire reel from the support arm. Discard the lockwasher.

(2) Manually remove the drag brake shoe and spring at the base of the support arm.

(b) ***Preparation or Wire Reel for Brake Kit (Fig. 3)***

(1) Reinstall the reel on the support arm, and rotate reel. There must be clearance between the inner flange of the reel and the support arm with ***NO*** lateral movement or play along the reel shaft. If either condition exists, add spacers to the reel shaft as follows.

(a) Remove the reel from the support arm.

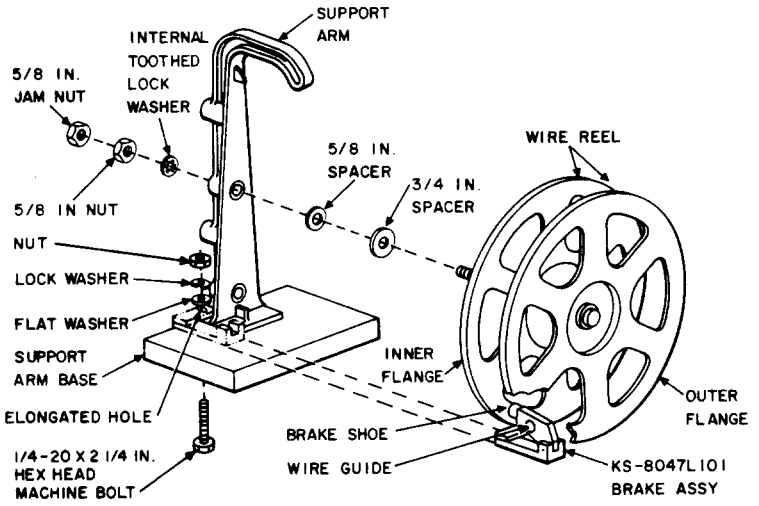

Fig. 3—Installation of KS-8047 L101 Automatic Brake Kit

(b) Remove the 5/8-inch spacer from the reel shaft.

(c) Install one of the 3/4-inch spacers over the thicker (3/4-inch) portion of the shaft.

(d) Reinstall the 5/8-inch spacer.

(e) Hold the reel horizontally with the threaded portion of the shaft protruding upward. Lower the support arm over the reel shaft, and return the combined assembly to its normal vertical position.

(2) Again rotate the reel. If interference between the reel and the support arm and/or lateral "play" along the shaft have not been eliminated, repeat (a) through (e) to add the other 3/4-inch spacer. The reel should now rotate freely without lateral movement when reassembled.

(3) With the reel in place on the support arm, screw on the 5/8-inch nut finger tight. Secure with the 5/8-inch jam nut and tighten using the KS-13816 wrench.

(c) ***Installation of the KS-8047 L101 Brake (Fig. 3)***

(1) Remove the wood screw that holds the left side of the support arm to the base; discard this screw.

(2) Drill a 1/4-inch diameter hole through the wood base where the wood screw was removed.

(3) Place the L101 brake (Fig. 4) over the support arm base, as shown in phantom in Fig. 3. Align the slotted hole in the brake assembly over the hole in the support arm, and insert the 1/4- by 2-1/4 inch machine bolt from the bottom up with the bolt head under the wood base and the nut with flat washer and lockwasher on top of the brake.

(4) For frame-mounted wire reels without the wood base, use the 1/4-20 by 1-inch hex cap screw, plain washer, lockwasher, and nut provided to fasten the brake to the support arm base.

(5) Because the inside reel flange may be warped, rotate the reel to the spot where the brake shoe is in best contact with the reel flange. With the brake shoe flush against the inner flange, secure the brake assembly using the flat washer, lockwasher, and nut provided.

3.04 ***Adjustment of the Automtic Brake on KS-8047 L2 Wire Reel***

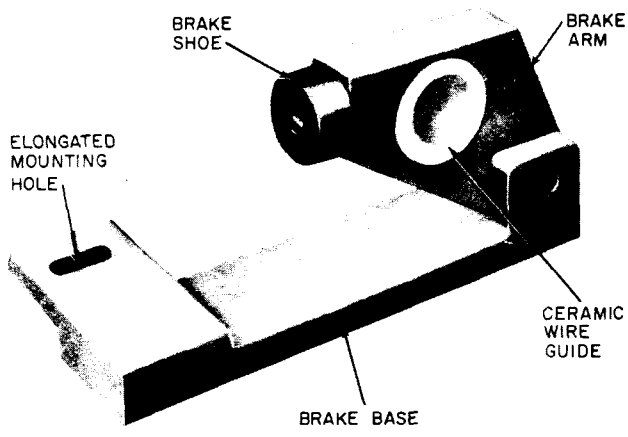

Fig. 4—KS-8047 L101 Brake

(1) ***Thread the cross-connect wire through the wire guide on the brake without changing the direction of the wire (Fig. 2).***

(2) To adjust the braking force, loosen the brake mounting screw or bolt and position brake to give the desired braking effect. Braking force is increased by moving the brake assembly closer to the inner flange of the reel and decreased by moving it away from the flange.

3.05 ***Periodic Cleaning of the Inner Flange and Brake Shoe:*** On older KS-8047 wire reels or on reels where the braking action is slow such that the brake is engaged and the reel continues spinning, proper braking action may be restored by cleaning the inner flange surface and brake shoe with KS-19578 L1 cleaning fluid (trichloroethane) to remove any residue such as wax or oxides.

Warning: Use only in a well-ventilated area.