

KS-5746 INTERRUPTERS REPLACEMENT PARTS AND PROCEDURES

1. GENERAL

1.01 This section covers the information necessary for ordering parts to be used in the maintenance of the KS-5746 interrupter. It also covers approved procedures for replacing these parts.

1.02 This section is reissued to incorporate material from the addendum in its proper location. In this process marginal arrows have been omitted.

1.03 Part 2 of this section is called Replacement Parts and covers the parts, which it is practicable to replace in the field, in the maintenance of the KS-5746 interrupter. These parts are designated on the figures in Part 2 and

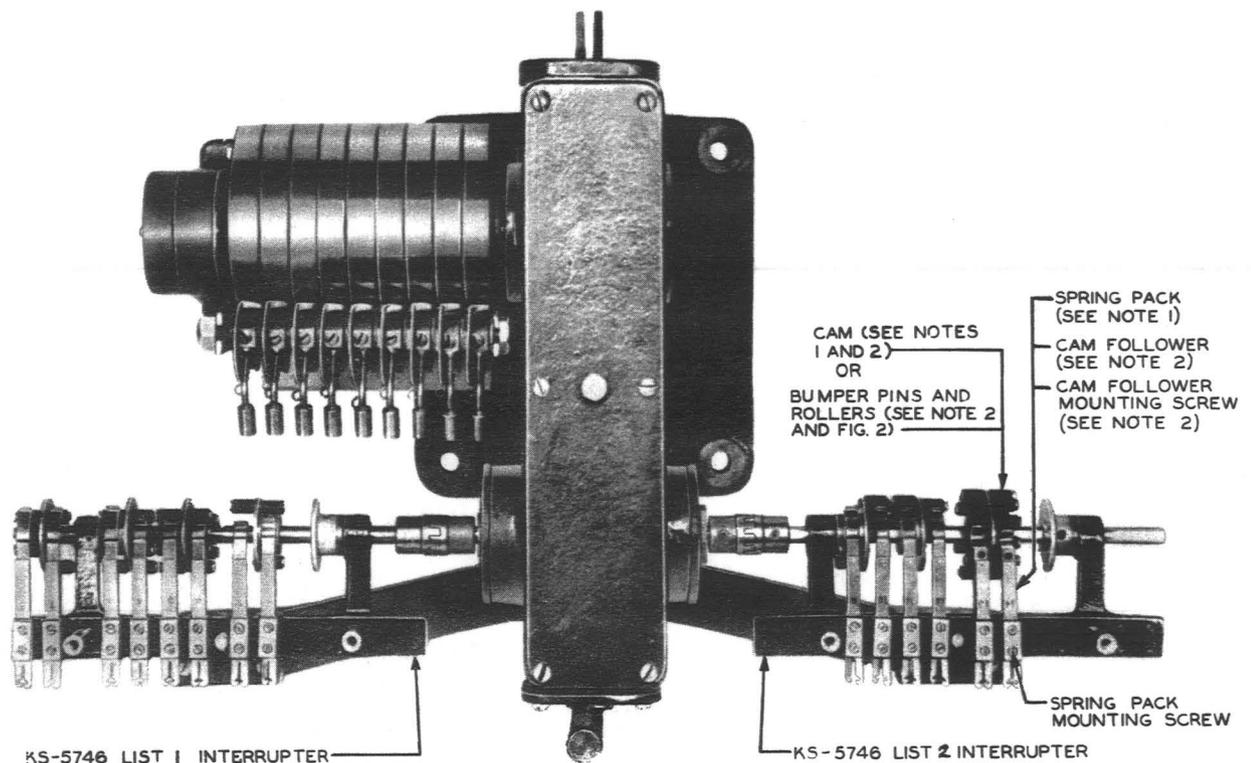
no attempt should be made to replace parts not designated on these figures.

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.

1.05 Before making any replacement on the apparatus covered herein, remove it from service in accordance with approved procedures.

2. REPLACEMENT PARTS

2.01 The figures included in this part show the various parts in their proper relation to other parts of the interrupter and the names of the parts which it is practicable to replace in the field.



NOTE 1: WHEN ORDERING SPRING PACKS AND ASSOCIATED CAMS SPECIFY THE POSITION NUMBER STAMPED ON THE SPRING PACK

NOTE 2: KS-5746 LIST 3 AND 4 INTERRUPTERS HAVE CAMS AND CAM FOLLOWERS. KS-5746 LIST 1 AND 2 INTERRUPTERS HAVE BUMPER PIN ROLLERS.

Fig. 1 - KS-5746, Lists 1, 2, 3, and 4 Interrupters — Lists 1 and 2 shown (Covers Removed) (Interrupters Shown On No. 3A Interrupter Mounting)

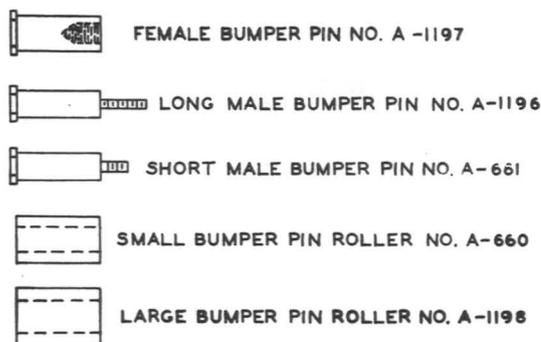


Fig. 2 - Bumper Pins and Rollers

2.02 When ordering parts for replacement purposes give the name of the part, the KS and list number, and the name of the manufacturer. For example, interrupter spring pack No. 1 for the KS-5746 interrupter, Holtzer-Cabot. Do not refer to the BSP number or to any information shown in parentheses following the piece-part number.

3. REPLACEMENT PROCEDURES

3.01 List of Tools and Materials

CODE OR SPEC NO.	DESCRIPTION
TOOLS	
R-2959	1/16-inch Allen Socket Screw Wrench
—	3-inch Cabinet Screwdriver
—	Crank, Holtzer-Cabot, Code C — 500
—	4-inch regular Screwdriver
—	Combination Pliers
MATERIALS	
—	Heavy piece of paper of suitable dimensions for inserting between all cam followers and cams
KS-2423	Cloth

3.02 The cover that encloses the interrupter must be removed to gain access to the parts. To do this, remove the thumb screws and washers which secure the cover and remove the cover.

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

3.04 After making any replacement of parts on the KS-5746 interrupter, the interrupter shall meet the requirements covered in Section 163-630-701.

3.05 Spring Pack: To replace a spring pack, tag and unsolder the leads. Then, remove the spring pack mounting screws using the 4-inch regular screwdriver and remove the spring pack. Mount the new spring pack, making sure that the full width of its cam follower bears against the bumper pin roller on lists 1 and 2 interrupters and against the cam on lists 3 and 4.

Note: If an individual part of a spring pack, except a cam follower, is defective, replace the entire spring pack.

3.06 Bumper Pin or Roller: (KS-5746, Lists 1 and 2 Interrupters) To replace a bumper pin or roller, remove the hex. head pin and remove the roller. Substitute the new part. Mount the roller and tighten the pin.

3.07 Cam Follower: (KS-5746, Lists 3 and 4 Interrupter) To replace a cam follower remove its mounting screw using the 3-inch cabinet screwdriver and remove the cam follower. Position the new cam follower against the end of the spring so that the sides of the follower and spring are parallel. Securely tighten its mounting screw.

3.08 Cams: (KS-5746, Lists 3 and 4 Interrupters) To replace a cam, proceed as follows:

General

- (1) Insert, between the cams and cam followers, a strip of heavy paper of suitable dimensions to engage all cams.
- (2) Remove the crank plug in the bottom of the gear case and screw the C-500 crank into the end of the shaft.
- (3) Manually rotate the camshaft with the crank to obtain access to setscrews in the cams, collar, and coupling.

Cams Outside Outer Bearing

- (4) If the cam to be replaced is mounted outside the outer bearing, loosen the setscrews in the cam. Also loosen the setscrews

in any cams between the cam being replaced and the end of the shaft. Note the relative positions of the cams and then slide them off the shaft. Mount the new cam and other cams, if removed, in their proper positions. Position the cams as covered in (11).

Cams Between Bearings

- (5) If the cam to be replaced is between the bearings, loosen the setscrews in all cams between the bearings, the cam end of the coupling, and the collar using the R-2959 wrench.
- (6) Manually work the camshaft free of the coupling. If the shaft is tight on the coupling, grasp the round portion of the shaft adjacent to the collar with combination pliers using a strip of KS-2423 cloth to protect the shaft from being burred by the jaws of the pliers. Slide the shaft away from the coupling so that there is a space of approximately 1/2 inch between the bearing and the end of the shaft which provides sufficient space for removing the collar and cams.

- (7) Note the relative positions of the cams. Remove the collar, the cam to be replaced, and any cams ahead of it on the shaft.
- (8) Mount the new cam and remount the other cams in their proper positions. Then remount the collar.
- (9) Carefully insert the end of the shaft through the bearing and into the coupling so that one of the coupling setscrews will engage the flat or groove in the shaft. Securely tighten the coupling setscrews.
- (10) Position the collar against the bearing and securely tighten the setscrews with one of the setscrews engaging the flat or groove in the shaft. Position the cams as covered in (11).

Positioning Cams

- (11) Align each cam on the shaft with its associated spring pack and position the cams to meet the requirements covered in Section 163-630-701. Securely tighten the cam setscrews. Remove the crank and remount the plug.