37 ANSWER-BACK UNIT

LUBRICATION

CONTENTS

1. GENERAL

1.01 This section provides lubrication procedures for the late design 37 answer-back unit (Figure 1). The late design unit can be recognized by the location of the drum feed mechanism at the end of the code drum. The drum feed mechanism on the early design answer-back unit is located in the middle of the code drum.

1.02 A photograph of the mechanism is used to show the lubrication area. The paragraph number on the figure refers to the specific lubrication points. Reference made to front or rear, left or right, top or bottom, etc, applies to the answer-back unit in its normal operating position as viewed by the operator in front of the unit. In this position, the answer-back unit is resting on its base with the contact assembly on the right side.

1.03 Lubricate the answer-back unit before placing it in service and just prior to putting it in storage.

1.04 After approximately 200 hours or four weeks of operation (whichever comes first), relubricate the unit. Thereafter, lubricate the unit according to the following schedule:

100 wpm	2,000 hours or 9 months*
150 wpm	1,500 hours or 6 months*

*Whichever comes first.

1.05 The symbols O1, O2, O3, etc, refer to 1, 2, 3, etc, drops of oil. The following list of symbols apply to the lubrication instructions:

Symbol	Meaning
O	Oil KS7470
G	Grease KS7471

Note: Ordering information for lubricants and a complete list of tools and materials available to maintain this equipment is given in Section 570-005-800TC.

1.06 Overlubrication which would allow oil to drip or to be thrown on other parts should be avoided. Capillary action and vaporization tend to keep a thin film of oil on the mechanisms. This prevents rust and provides sufficient lubrication to many points.

Note: Maintenance pad TP124828 is available to protect furniture and floor coverings from oil, grease, and dirt while lubricating the unit.

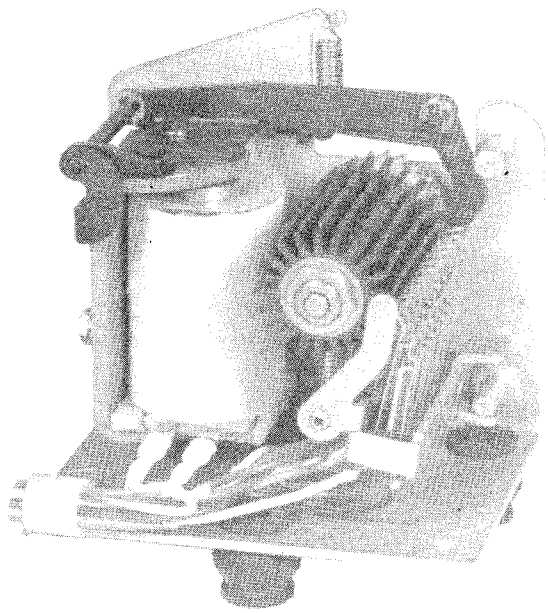


Figure 1 - Answer-Back Unit

1.07 Oil should be applied by means of an oiler to points where it will adhere or where pressure is nominal. In lubricating small parts, a minimum amount of oil should be applied, so that the oil remains on the part and does not run off. Excessive lubricants should be removed with a dry lint-free cloth. If the surface between the relay armature and magnet pole piece has oil or foreign matter, proceed as follows.

(1) Place a piece of clean paper between the armature and pole piece.

(2) Energize the magnet.

(3) Pull the paper through the armature and pole piece and check to insure that lint or pieces of paper do not remain.

1.08 Use twill jean cloth KS2423 to clean gold-plated contacts. The code reading contacts should be cleaned after approximately 1000 hours of operation or 6 months of service, whichever occurs first. Use the following procedure: (1) deflect the tab on the contact assembly downward to open the contacts, (2) drop a strip of twill jean between the contacts, (3) close the contacts, (4) draw the twill jean part way through the contacts, and (5) reopen the contacts and withdraw the twill jean. This procedure will prevent small fibers from the edges of the twill jean strip from becoming lodged between the contacts.

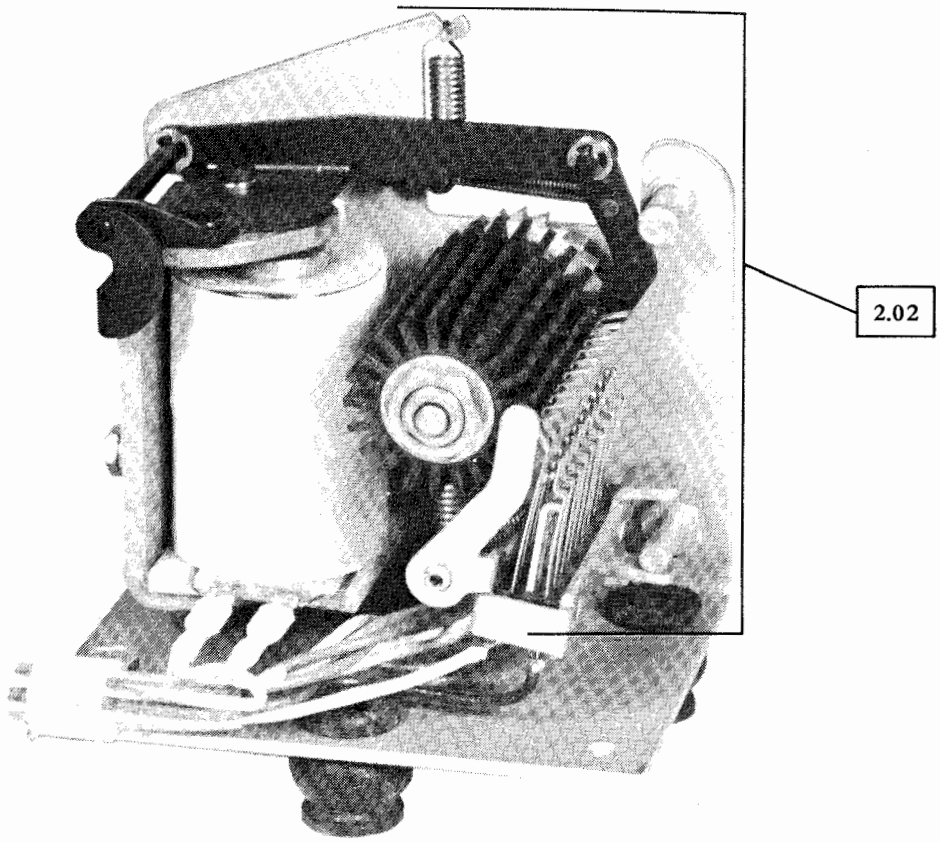
Note: Do not use burnishers, files, etc, which will remove gold plating.

CAUTION 1: DO NOT USE GOLD-PLATED CONTACTS ALTERNATELY IN HIGH- AND LOW-LEVEL CIRCUITS BECAUSE HIGH-LEVEL OPERATION MAY DAMAGE THE GOLD PLATING AND IMPAIR THE USE OF THE CONTACTS IN LOW-LEVEL CIRCUITS.

CAUTION 2: REMOVE POWER BEFORE LUBRICATING THE EQUIPMENT.

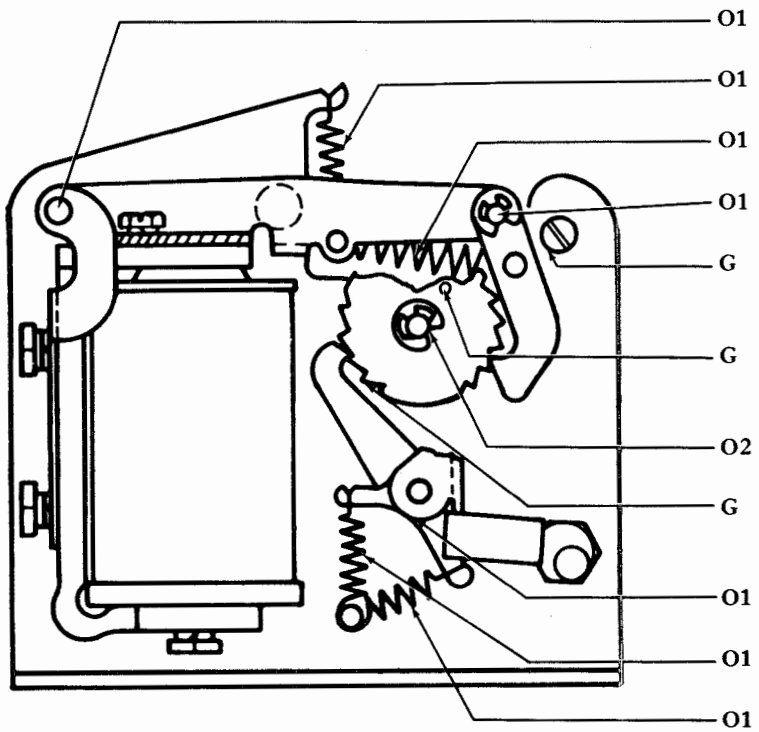
2. BASIC UNIT

2.01 Answer-Back



(Right Front View)

2.02 Feed Mechanism



O1	Pivots (2)	Armature Hinge
O1	Hook (Each End)	Feed Bail Spring
O1	Hook (Each End)	Feed Pawl Spring
O1	Pivot	Feed Pawl
G	Rear Surface (Thin Film)	Back Stop Eccentric
G	Locating Key (Thin Film)	Ratchet Wheel
O2	Pivot	Ratchet Wheel
G	Teeth (Thin Film)	Ratchet Wheel
O1	Pivot	Check Pawl
O1	Hook (Each End)	Contact Block Spring
O1	Hook (Each End)	Contact Pawl Spring

(Front View)