37 ANSWER-BACK UNIT

LUBRICATION

CONTENTS PAGE

1. GENERAL

1.01 This section provides lubrication procedures for the early design 37 answer-back unit (Figure 1), and is reissued to incorporate changes in the lubrication requirements. Marginal arrows have been included to indicate these changes.

1.02 A figure of the mechanism is used to show the lubrication areas. The paragraph numbers on the figure refer to the specific lubrication points. Reference made to front or rear, left or right, or top or bottom 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 in the front.

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

1.04 After approximately four weeks of service, relubricate the unit to make certain that no points have been missed. Thereafter, lubricate the unit according to the following schedule:

100 wpm	2000 hours or 6 months*
150 wpm	1500 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:

O	Oil KS7470
D	Keep dry, no lubricant permitted.
L	Lubriplate 105 grease

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

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.

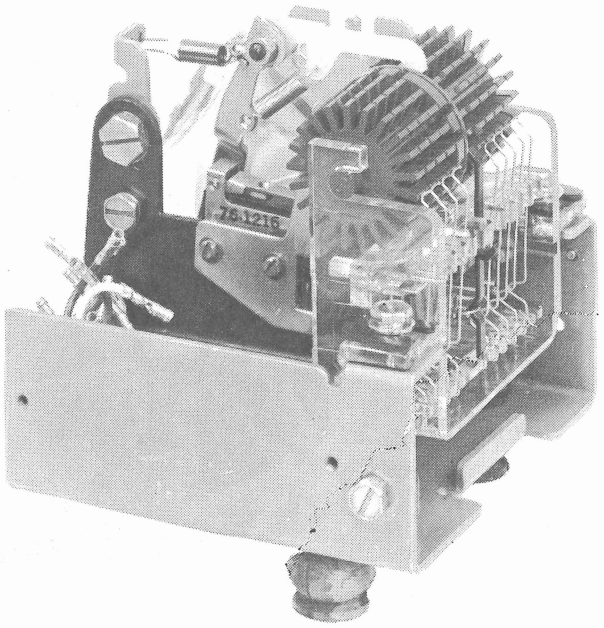


Figure 1 - 37 Answer-Back Unit

Prepared for American Telephone and Telegraph Company by Teletype Corporation

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) Rotate the code drum to open the contacts, (2) drop a strip of twill jean between the contacts and the common bar, (3) close the contacts, (4) draw the twill jean part way through, 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 the gold plating.

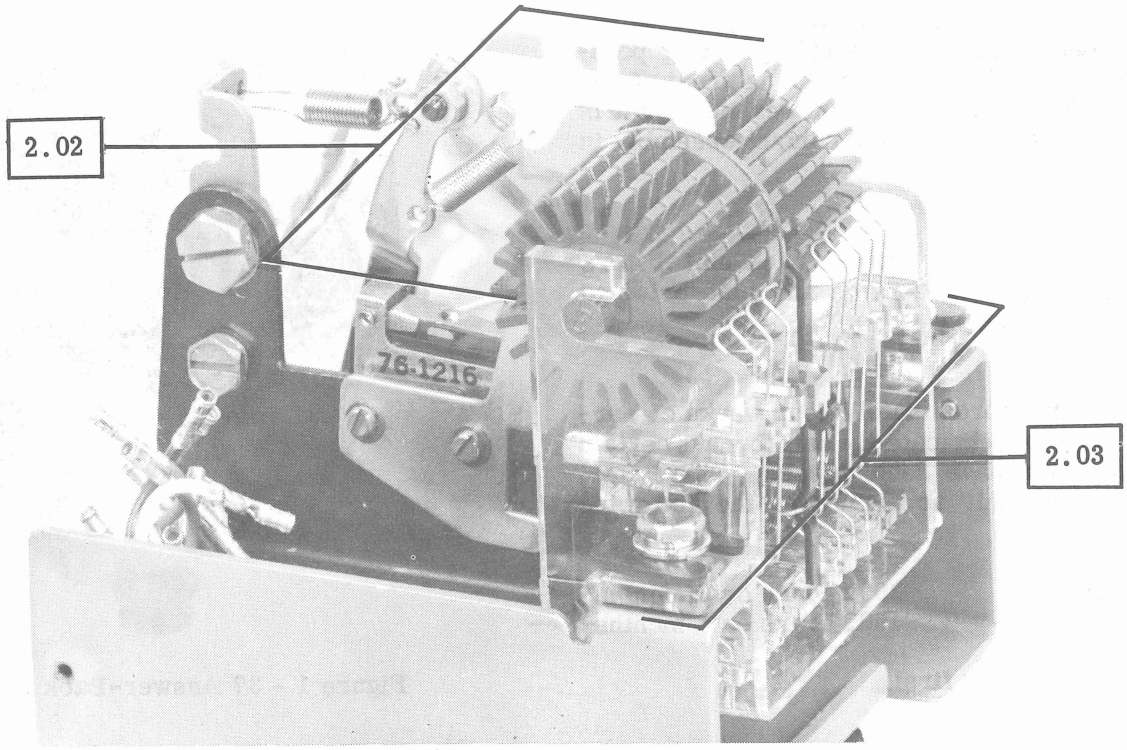
1.09 Special care should be taken to prevent any lubricant from getting on the circuit board, electrical contacts, and wiring.

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 OPERATION OF THE CONTACTS WHEN USED IN LOW-LEVEL CIRCUITS.

CAUTION 2: REMOVE POWER BEFORE LUBRICATING THE EQUIPMENT.

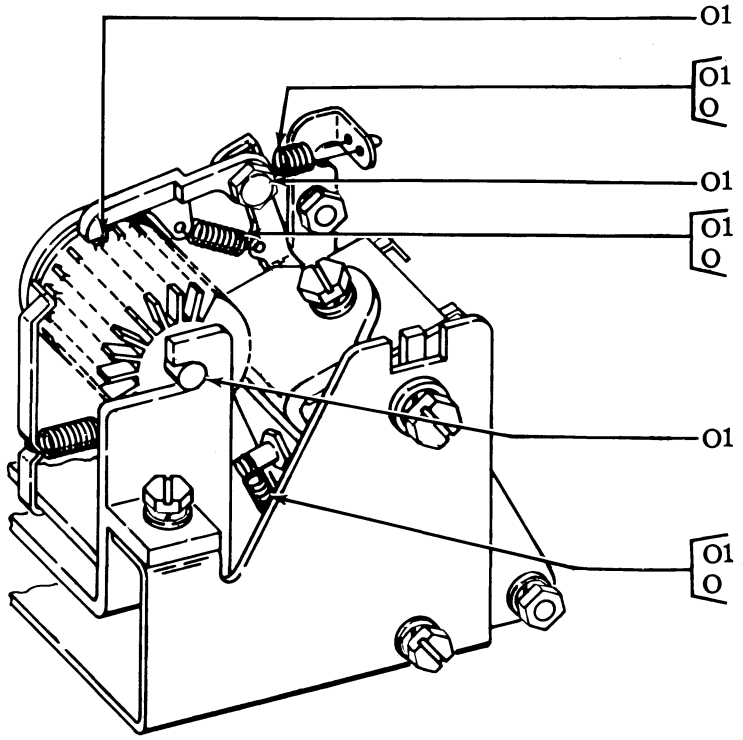
2. BASIC UNIT

2.01 Answer-Back



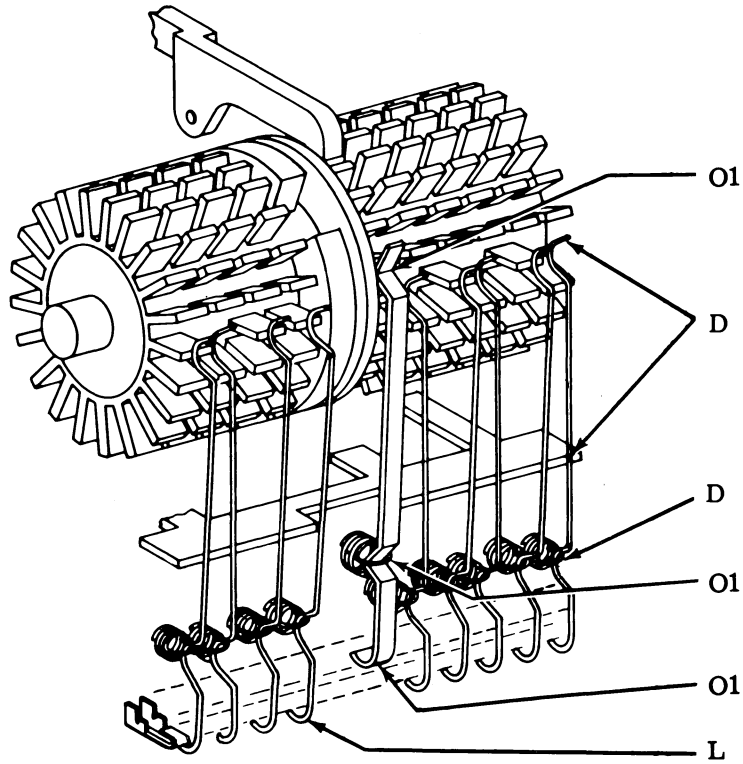
(Left Side View)

2.02 Code Drum and Feed Mechanism



O1	Tip	Feed Pawl
O1 O	Hook (Each End) Saturate Felt Wick	Feed Bail Spring
O1	Pivot	Feed Pawl
O1 O	Hook (Each End) Saturate Felt Wick	Feed Pawl Spring
O1	Bearing (Each End)	Code Drum
O1 O	Hook (Each End) Saturate Felt Wick	Armature Spring

2.03 Contact Assembly and Detent



O1	End	Detent
D	Surfaces	Contact Wires (9)
D	Hook (Each End)	Contact Wire Springs (9)
O1	Hooks (Each End)	Detent Spring
O1	End	Detent
L	Thin Coat on Contact Pivot Points	Contact Wires and Terminals (9)