

15 PERFORATOR-TRANSMITTER

LUBRICATION

1. GENERAL

1.01 This section contains the lubrication procedures for the 15 perforator-transmitter. This section and the section covering teletypewriter general lubrication provide the complete lubrication information for maintenance of the 15 perforator-transmitter.

1.02 This section is reissued to include the lubrication procedures for the repeat mechanism and cam-pulsing contact assembly.

1.03 Because of varying conditions at each station, the 15 perforator-transmitter should be lubricated as often as specified by local instructions.

2. PARTS TO BE LUBRICATED

Note 1: Oil both loops of all helical springs that exert a nominal tension of less than 2-1/2 pounds.

Note 2: Grease loops of all helical springs that exert a nominal tension of 2-1/2 pounds or more.

2.01 Bottom of Perforator-Transmitter:

- (1) O—Key levers: keylever shaft and rear comb slots.
- (2) O—Ends of keylever springs.
- (3) O—Selector-bar guide slots.
- (4) O—Y levers: bearing slots and arms.
- (5) O—Y lever connecting links: connections with extensions and Y levers.
- (6) O—Selector levers and contact-operating levers: bearing-rod bearings.
- (7) O—Universal-bar pivot-screw bearings and point of engagement with cutout lever.
- (8) O—Counter-control-cam lever: at pivot bearings.
- (9) O—Locking levers: at point of engagement with Y-lever links.

2.02 Top of Perforator-Transmitter:

- (1) O—Keylever front-comb slots.
- (2) O—Spacer bar loop: bearings and at point of engagement with its keylever.
- (3) F—Transmitting shaft: two oil cups.
- (4) O—Transmitting clutch: on sliding members, between teeth, on cam surface.
- (5) O—Locking loop: bearings and roller.
- (6) O—Contact levers: bearing shaft and guide slots.
- (7) O—Locking levers: bearing slots and at points of engagement with the contact levers.
- (8) O—Clutch-throw-out lever: bearings.
- (9) O—Intermediate pawl: pivot and lower extensions.
- (10) O—Trip-off pawl: joint and camming surface.
- (11) O—Keyboard-control operating lever: pivot and detent.
- (12) O—Keyboard-control operating-lever extension: at point of engagement with repeat space rod.
- (13) O—Universal-bar cutout-lever eccentric stud: at point of engagement with keyboard-control operating lever.
- (14) O—Repeat-space rod: at point of engagement with spacer-bar-loop extension, at point of engagement with cutout lever and at the bracket.
- (15) O—Y-lever connecting link extensions: left end connections.
- (16) O—Selector-fingers: at selector lever connections, guide slots, and at points of engagement with punches and operating lever.
- (17) O—Punch-operating lever: oil holes (two).
- (18) O—Selector-finger retaining fork and roller: bearings.
- (19) O—Antichatter lever: pivot bearing and points of engagement with the adjusting screw and contact spring.
- (20) OS—Antichatter-lever latch: bearing and point of engagement with latch screw and punch-contact operating lever. (Avoid getting oil on the contacts.)

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- (21) O—Punch-magnet control-contact operating-lever backstop: slot on old style, screw head on new style.
- (22) O—Punch block: rear oil hole, punches and shedder-block guide pins.
- (23) O—Feed roll: bearings, ratchet teeth, star wheel.
- (24) O—Tape-tension-lever bearings.
- (25) O—Backspace lever: shoulder-screw bearings and point of engagement with release cam.
- (26) O—Backspace-pawl bearing screw.
- (27) O—Feed-pawl release cam: bearing, cam surface.
- (28) O—Feed-roll detent: roller and pivot.
- (29) O—Feed-pawl bearing.
- (30) G—Transmitting-shaft gear.
- (31) GS—Transmitting-cam sleeve: a light film of grease on all cams.

2.03 Counter Unit:

- (1) O—Counter and release-magnet armature bearings. Be careful that no oil gets between the pole faces of the magnets and armatures.
- (2) O—Feed-pawl bearing screw.

- (3) O—Check-latch pawl: bearing screw and at point of engagement with the adjusting screw.
- (4) O—Latch pawl: bearing screw and on latching surface.
- (5) O—Ratchet wheel: on teeth, outer bearings, in drum.
- (6) O—Contact-lever bearing and cam.
- (7) O—Dashpot plunger.
- (8) G—Cam surfaces.
- (9) G—End of dashpot plunger.

2.04 Repeat Mechanism:

- (1) O—Keylever extension and keylever assembly: at bearings.
- (2) O—Detent lever and lever: at bearings.
- (3) GS—Detent lever: at apex.
- (4) GS—Lever: at four lobes and apex.
- (5) GS—Keylever extension: at working edges.

2.05 Cam-pulsing Contact Assembly:

- (1) O—Cam follower: at spring hinge.
- (2) GS—Contact spring: at point of contact with cam follower.