DESCRIPTION, THEORY OF OPERATION, AND SERVICING INSTRUCTIONS FOR THE 146892** TAPE UNWINDER

1. DESCRIPTION

a. The 146892** Tape Unwinder is a tape pay-out device with a low shock load for use with high or low speed tape transmitters.

b. The tape unwinder is capable of operating with equipment at speeds up to 1000 WPM. A brake operated by a yield arm stops the reel when the tape between the reader and unwinder becomes slack. The yield arm can supply tape from the reel at a variety of angles.

c. The tape unwinder accepts the 145911 Plastic Reel (7-1/2 inch dia.) which accommodates 11/16 inch, 7/8 inch, or 1 inch tape.

d. The double asterisks (**) represent a two-letter suffix which indicates the color of paint finish.

e. For parts ordering information see Teletype Parts Bulletin 1075B.

2. THEORY OF OPERATION

The tape supply reel is retained on the hub by the detent in one of two positions. The intermediate position permits free wheeling of the reel for low speeds; the full position prevents the overrunning of the reel when operating at high speeds. See Figure 2. The unwinding of tape is controlled by the tape yield arm which is spring biased to engage a brake wire with the brake disc. A demand on the tape releases the brake allowing the reel to turn. The location of the yield arm is maintained by a friction spring (Figure 2).

3. INSTALLATION OF TAPE GUIDE W/ROLLER

Install the 145933 Tape Guide W/Roller (found in muslin bag attached to unit) on the tape unwinder using the 153537 Screw, 2191 Lock Washer, and 7002 Flat Washer furnished. See Figure 2.

4. LUBRICATION

Apply one drop of KS7470 Oil to the following:

a. Shaft bearing hub
b. Yield arm bearing hub
c. Yield arm pivot
d. Brake wire pivot
e. Brake disc groove
f. Spring hook (both ends)

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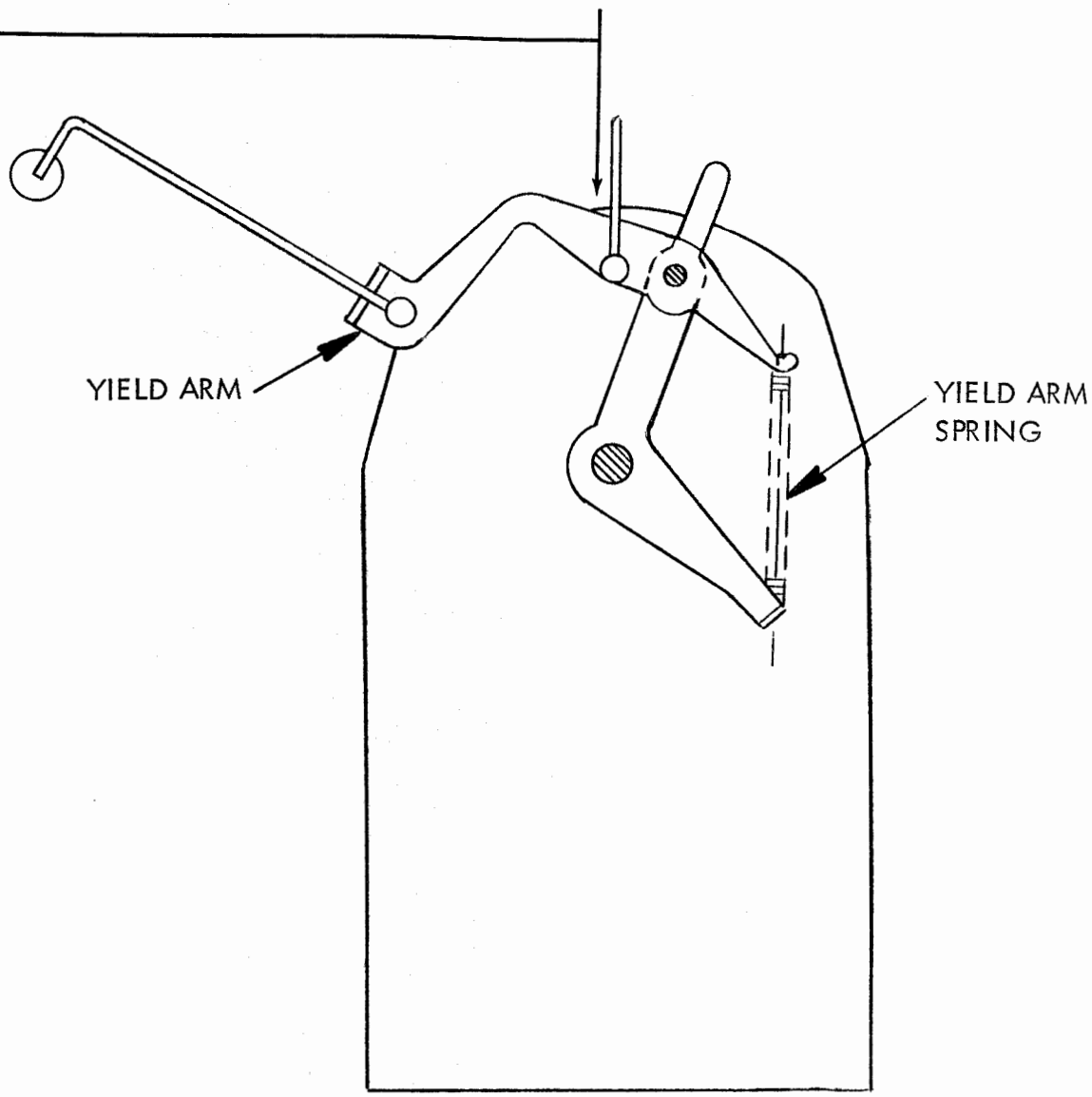
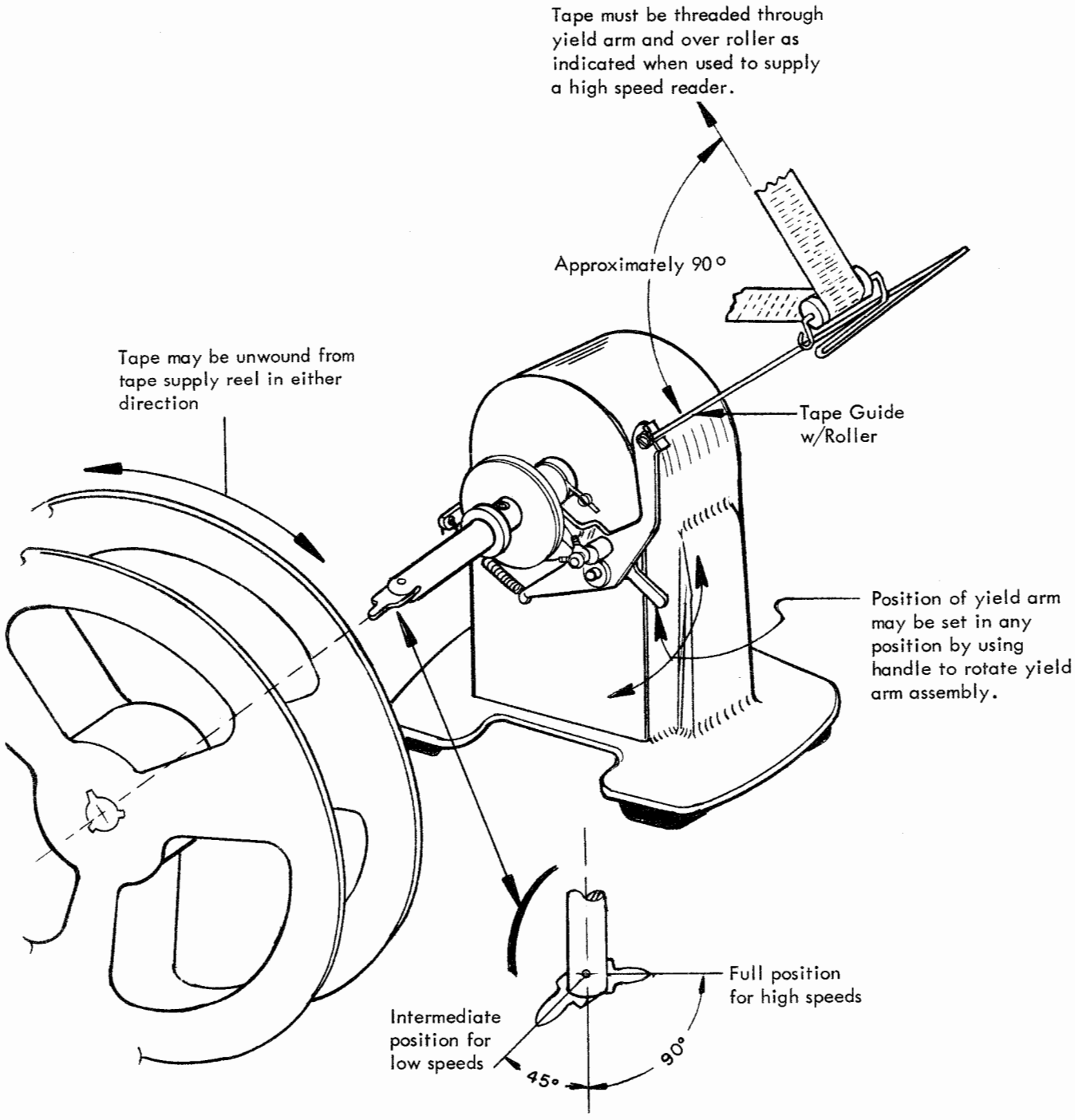
5. TAPE YIELD ARM SPRING TENSION

TO CHECK
APPLY PUSH END OF 8 OZ. SCALE TO THE BRAKE WIRE ANCHOR POST AND PUSH TOWARD THE MAINSHAFT.



REQUIREMENT
MIN. 4 OZS.
MAX. 7-1/2 OZS.
TO START THE YIELD ARM MOVING.

FIGURE 1



146892** TAPE UNWINDER

FIGURE 2