

**TP3640 LOCK WASHER, TP119649 RETAINER RING
AND TP193670 SHAFT**

APPARATUS AFFECTED: 1A and 2A Tape Readers (DATASPEED).

OBJECT: To reduce end play of the TP193673 and TP179711 cam followers and to prevent possible loosening of the TP151880 No. 4-40 nut which fits over the TP171291 screw.

CHANGE: The $0.017 \begin{matrix} + .002 \\ - .0 \end{matrix}$ inch groove in the TP193670 shaft has been changed from $0.102 \begin{matrix} + .002 \\ - .0 \end{matrix}$ inch diameter to $0.095 \begin{matrix} + .002 \\ - .0 \end{matrix}$ inch diameter and the tolerance on the 0.140 inch shaft diameter at the threaded end has been changed from $\begin{matrix} + .0 \\ - .005 \end{matrix}$ to $\begin{matrix} + .001/2 \\ - .005 \end{matrix}$ inch.

The TP119650 retainer ring has been replaced by a TP119649 retainer ring. The outside diameter of the new style TP119649 retainer ring is 0.027 inch larger than the old style TP119650 retainer ring. The outside diameter of the new style ring measures 0.230 inch. The outside diameter of the old style ring measures 0.203 inch.

The TP110743 lock washer has been replaced by a TP3640 lock washer, which is 0.011 inch thicker. The old style TP110743 lock washer measures 0.202 inch outside diameter, 0.115 inch inside diameter, by 0.020 inch thick. The new style TP3640 lock washer measures 0.226 inch outside diameter, 0.115 inch inside diameter, by 0.031 inch thick.

Refer to Teletype Bulletin 1176B, dated January, 1963, page 1-2, change 2.

IDENTIFICATION: See "CHANGE".

INTERCHANGEABILITY: New and old style shaft and retainer ring are not individually interchangeable, but are interchangeable in sets. Old and new style lock washers are interchangeable.

CLASSIFICATION FOR APPARATUS FURNISHED BY TELETYPE: This change is now in effect.

W.E.CO. STOCK OF OLD STYLE PARTS: Old style TP193670 shaft should not be furnished after new style shaft becomes available.

The replaced TP110743 lock washer and TP119650 retainer ring can be used for other applications.

APPLICATION TO APPARATUS IN THE FIELD: Old style parts giving satisfactory service need not be replaced.

APPLICATION AT W.E.CO. DIST. HOUSE REPAIR SHOPS: All units shall be equipped with new style parts when parts involved require replacement or are disassembled for other reasons.

AVAILABILITY: New style parts are available.