28 REPERFORATOR-TRANSMITTER UNIT

REQUIREMENTS AND ADJUSTMENTS

CONTENTS

1. GENERAL

1.01 This section contains the requirements and adjustments for the 28 reperforator-transmitter unit. This section, the section covering teletypewriter general requirements and adjustments, and the sections referred to in this section, provide the complete adjusting information for the reperforator-transmitter unit.

1.02 The reperforator-transmitter unit is made up of a single magnet typing or nontyping reperforator, a pivoted-head multicontact transmitter-distributor, a motor, and drive gears assembled on a casting.

1.03 In this section all references to direction apply to the unit in its normal operating position with the viewer facing the right side of the unit; the reperforator to the right and the transmitter-distributor to the left.

1.04 Where a requirement calls for the clutch to be disengaged, the clutch-shoe lever must be fully latched between its triplever and latchlever so that the clutch shoes release their tension on the clutch drum. When engaged, the clutch-shoe lever is unlatched and the clutch shoes are wedged firmly against the clutch drum.

> Note: When rotating either the sensing shaft or distributor shaft by hand, the clutch does not fully disengage upon reaching its stop position. In order to relieve the drag on the clutch and permit the shaft to rotate freely, apply pressure on the lug of the clutch disc with a screwdriver to cause it to engage its latchlever, and thus disengage the internal-expansion clutch shoes from the clutch drum.

1.05 When rotating the drive-shaft gear by hand, rotate in a counterclockwise direction as viewed from the exposed side of the drive-shaft gear.

1.06 The figures in this section show the adjusting tolerances, positions of moving parts, and spring tensions. The illustrations are arranged so that the adjustments are in the sequence that would be followed if a complete readjustment of the apparatus were being made. In some cases where an illustration shows

interrelated parts, the sequence that should be followed in checking the requirements and making the adjustments is indicated by the letters (A), (B), (C), etc.

2. REQUIREMENTS AND ADJUSTMENTS

2.01 Typing Reperforator of Unit So Equipped: Refer to the section covering 28 single magnet typing reperforator requirements and adjustments.

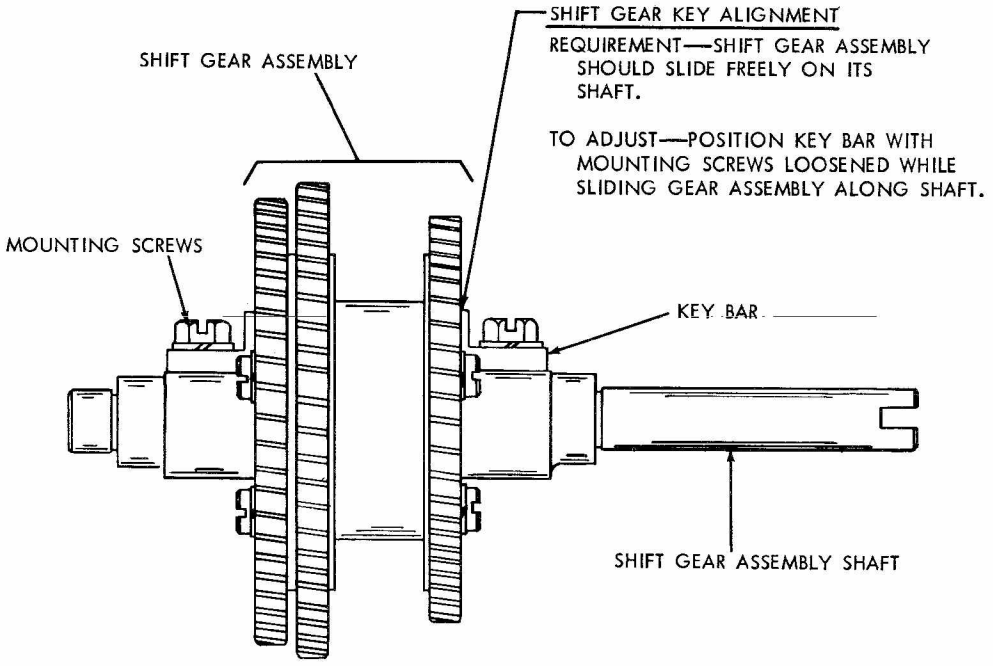
2.02 Nontyping Reperforator of Unit So Equipped: Refer to the section covering 28 single magnet nontyping reperforator requirements and adjustments.

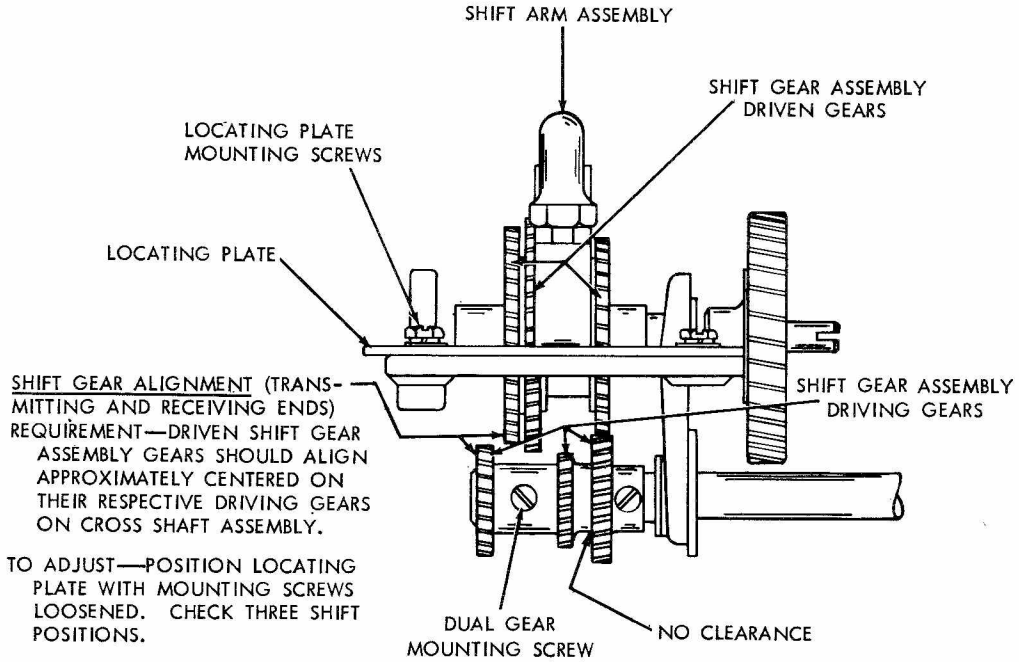
2.03 Transmitter-Distributor Unit: Refer to the section covering 28 transmitter-distributor unit requirements and adjustments.

2.04 Motor Unit: Refer to the section covering 28 motor unit requirements and adjustments.

2.05 Variable Features of Unit: Requirements and adjustments for the variable features are as specified in the sections containing the requirements and adjustments for the previously mentioned components of the 28 reperforator-transmitter unit.

2.06 Shift Gear Mechanism

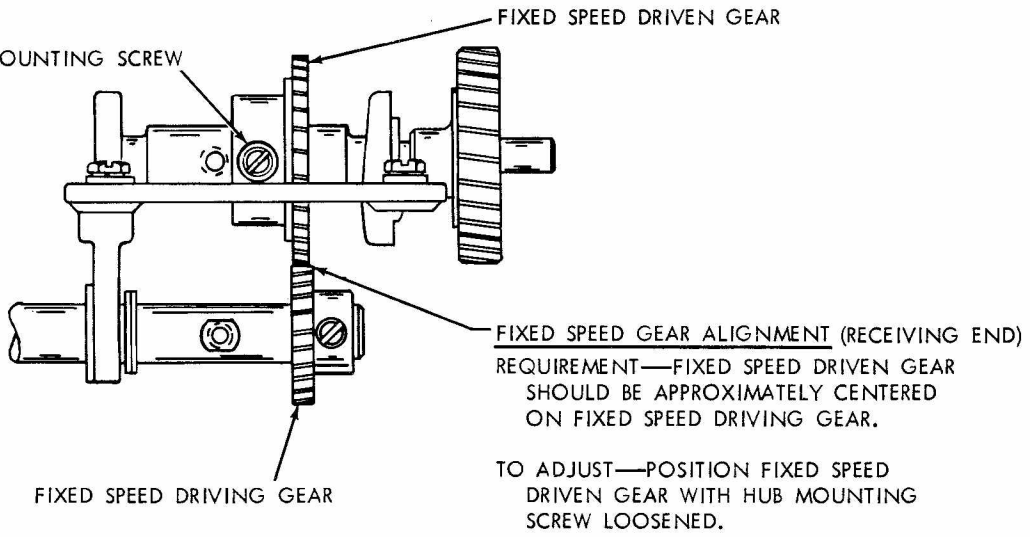


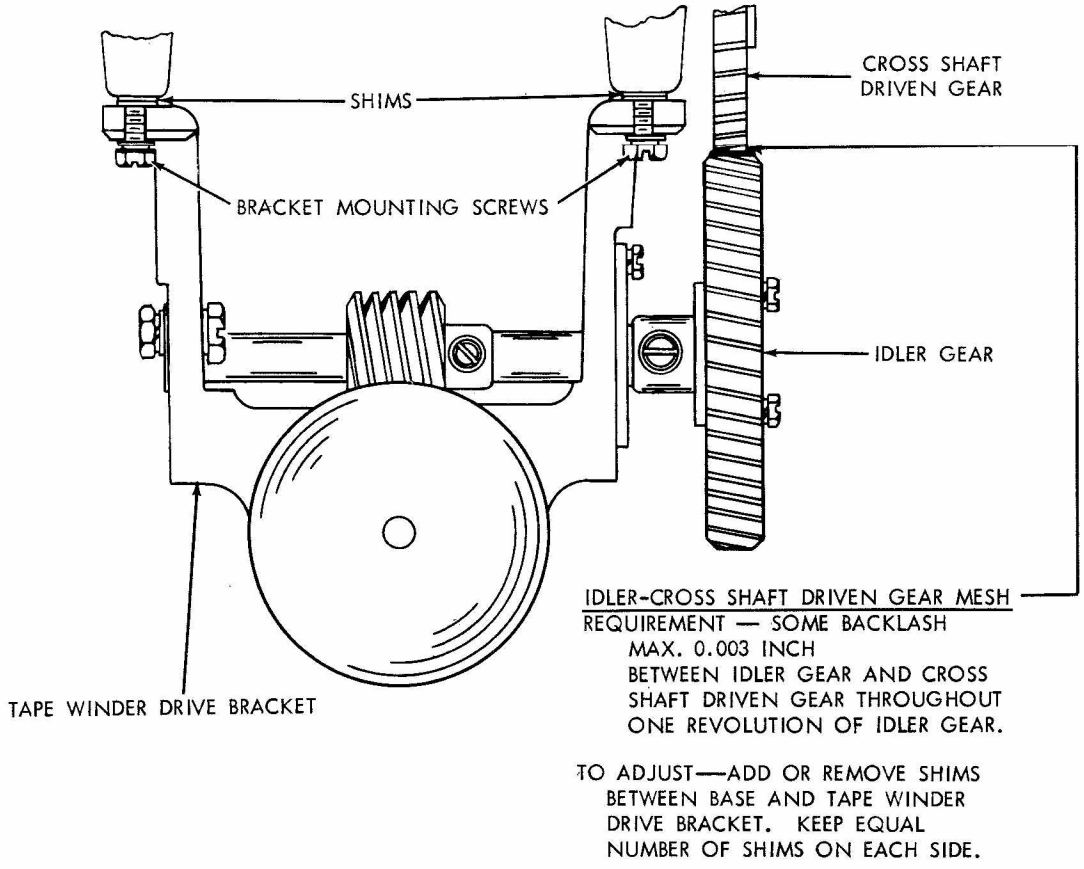


NOTE

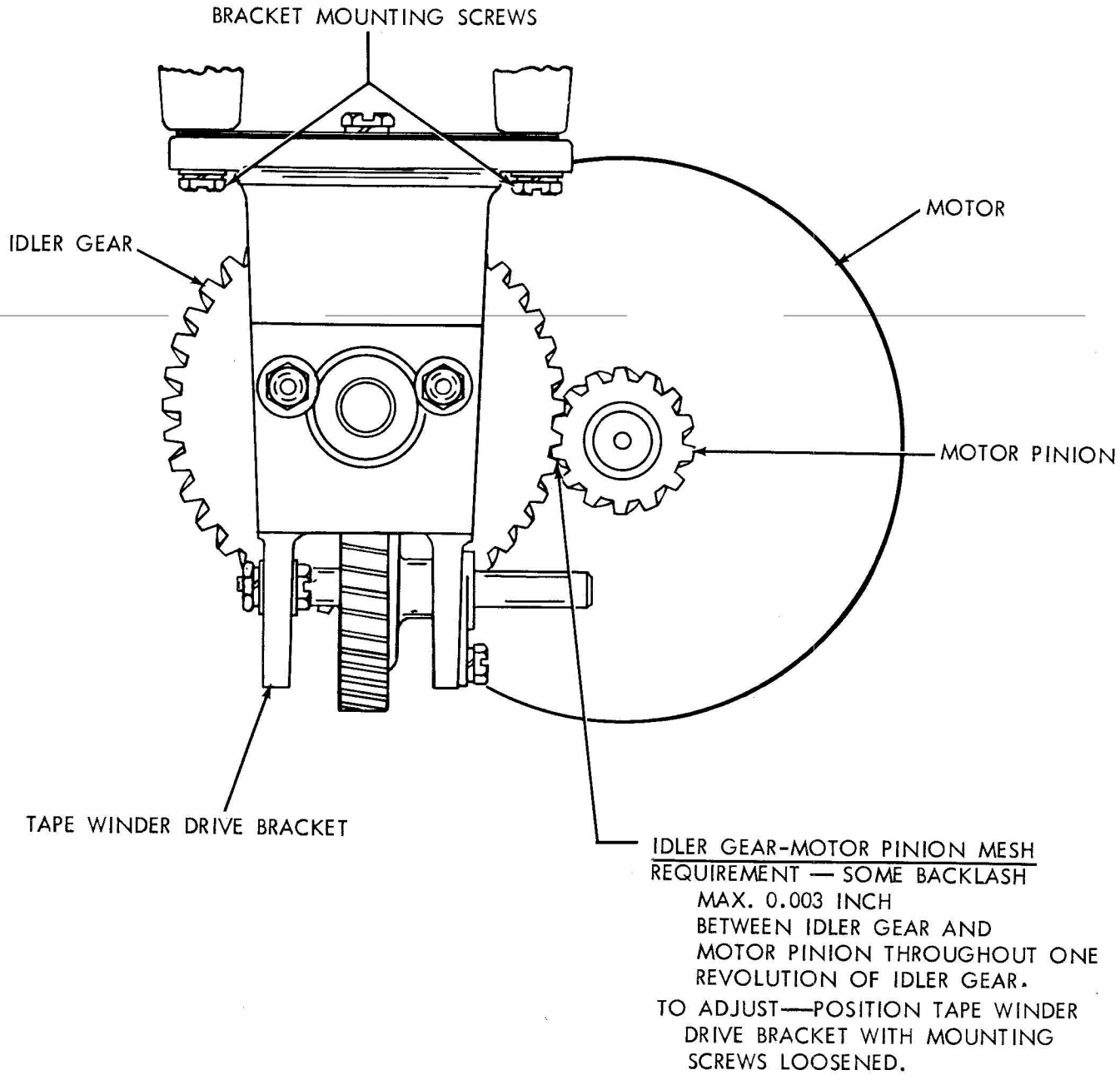
MAKE CERTAIN THAT THE TWO PORTIONS OF THE SHIFT GEARS ON THE CROSS SHAFT ASSEMBLY ARE MOUNTED WITH NO CLEARANCE BETWEEN THEM. IF THERE IS CLEARANCE, LOOSEN DUAL GEAR MOUNTING SCREW AND ELIMINATE CLEARANCE BEFORE MAKING ABOVE ADJUSTMENT.

2.07 Fixed Speed, Idler, and Cross Shaft Driven Gear Mechanisms

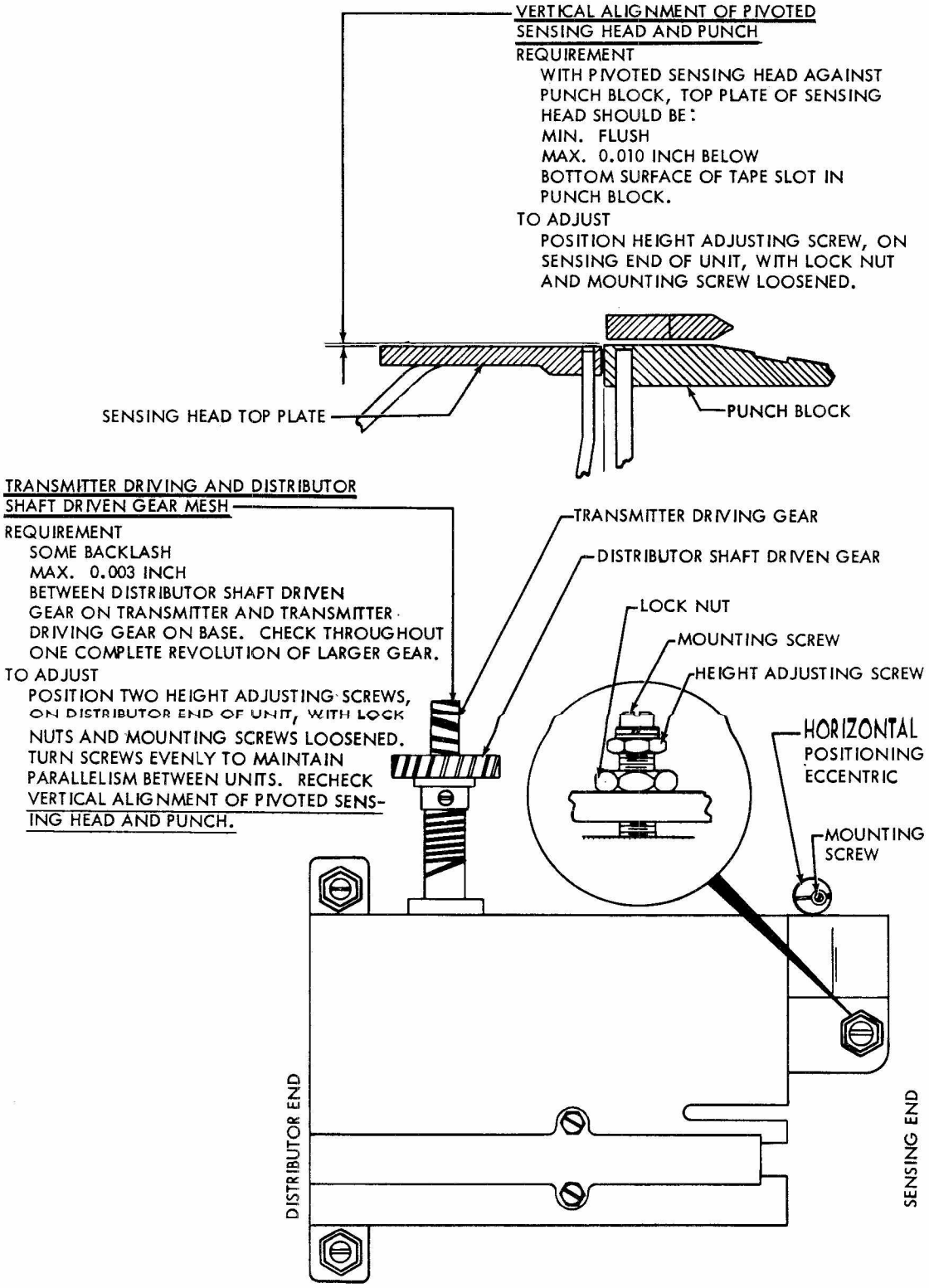




2.08 Idler Gear – Motor Pinion Mesh



2.09 Vertical Alignment of Pivoted Sensing Head and Punch and Transmitter Driving and Distributor Shaft Driven Gear Mesh



2.10 Horizontal Alignment of Pivoted Sensing Head and Punch and Tape Depressor

HORIZONTAL ALIGNMENT OF PIVOTED SENSING HEAD AND PUNCH

REQUIREMENT

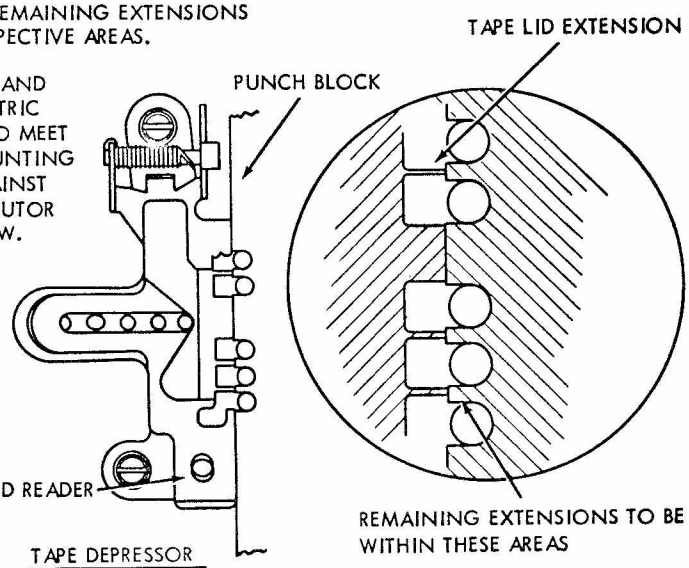
WHEN ONE TAPE LID EXTENSION IS CENTERED ON RESPECTIVE AREA BETWEEN PUNCH PIN SLOTS, REMAINING EXTENSIONS SHOULD BE FULLY WITHIN THEIR RESPECTIVE AREAS.

TO ADJUST

LOOSEN TRANSMITTER-DISTRIBUTOR AND HORIZONTAL POSITIONING ECCENTRIC MOUNTING SCREWS. SHIFT UNIT TO MEET REQUIREMENT. TIGHTEN UNIT MOUNTING SCREWS. POSITION ECCENTRIC AGAINST REAR PLATE OF TRANSMITTER-DISTRIBUTOR AND TIGHTEN ITS MOUNTING SCREW.

NOTE

IT MAY BE NECESSARY TO POSITION THE REPERFORATOR UNIT IF THE REQUIREMENT CANNOT BE MET BY THE ADJUSTMENT OF THE TRANSMITTER-DISTRIBUTOR. IF NECESSARY, POSITION THE REPERFORATOR IN THE SAME MANNER AS THE TRANSMITTER-DISTRIBUTOR.



TAPE DEPRESSOR

(1) REQUIREMENT

TIP OF DEPRESSOR EXTENSION SHOULD BE CENTERED BETWEEN #2 AND #3 PUNCH PIN SLOTS IN PUNCH BLOCK.

TO ADJUST

POSITION DEPRESSOR EXTENSION WITH ITS TWO ADJUSTING SCREWS LOOSENED.

(2) REQUIREMENT

DEPRESSOR EXTENSION SHOULD BE POSITIONED

MIN. FLUSH

MAX. .060 BELOW

TOP SURFACE OF PUNCH BLOCK.

REQUIREMENT

CLEARANCE BETWEEN TAPE DEPRESSOR EXTENSION AND PUNCH BLOCK

MIN. 0.040 INCH

MAX. 0.080 INCH

TO ADJUST

POSITION BY MOVING TAPE DEPRESSOR EXTENSION ANGULARLY AND/OR HORIZONTALLY WITH LOCK NUT ON DEPRESSOR LOOSENED.

NOTE

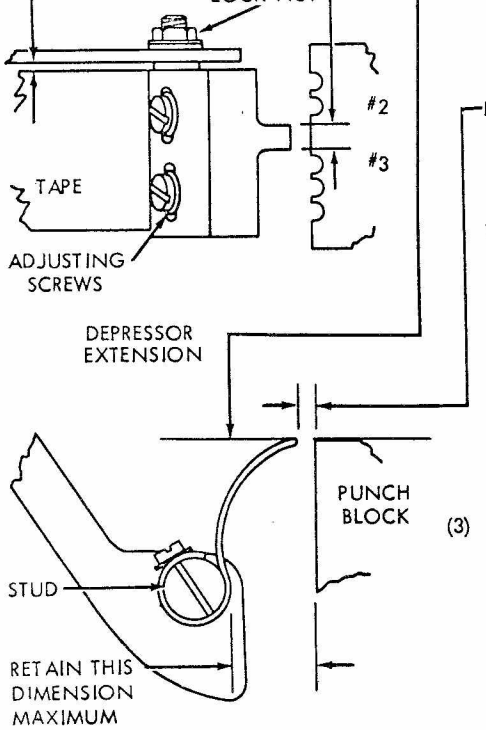
IF REQUIREMENT (2) IS STILL NOT MET, ROTATE BAR AT TOP OF TRANSMITTER-DISTRIBUTOR (TO WHICH DEPRESSOR BRACKET IS SECURED) WITH FOUR MOUNTING SCREWS OF BAR ASSEMBLY LOOSENED. MAKE SURE CLEARANCE BETWEEN PUNCH BLOCK AND DEPRESSOR EXTENSION (AT MOUNTING STUD) IS MAXIMUM POSSIBLE WHILE STILL MEETING REQUIREMENT.

(3) REQUIREMENT

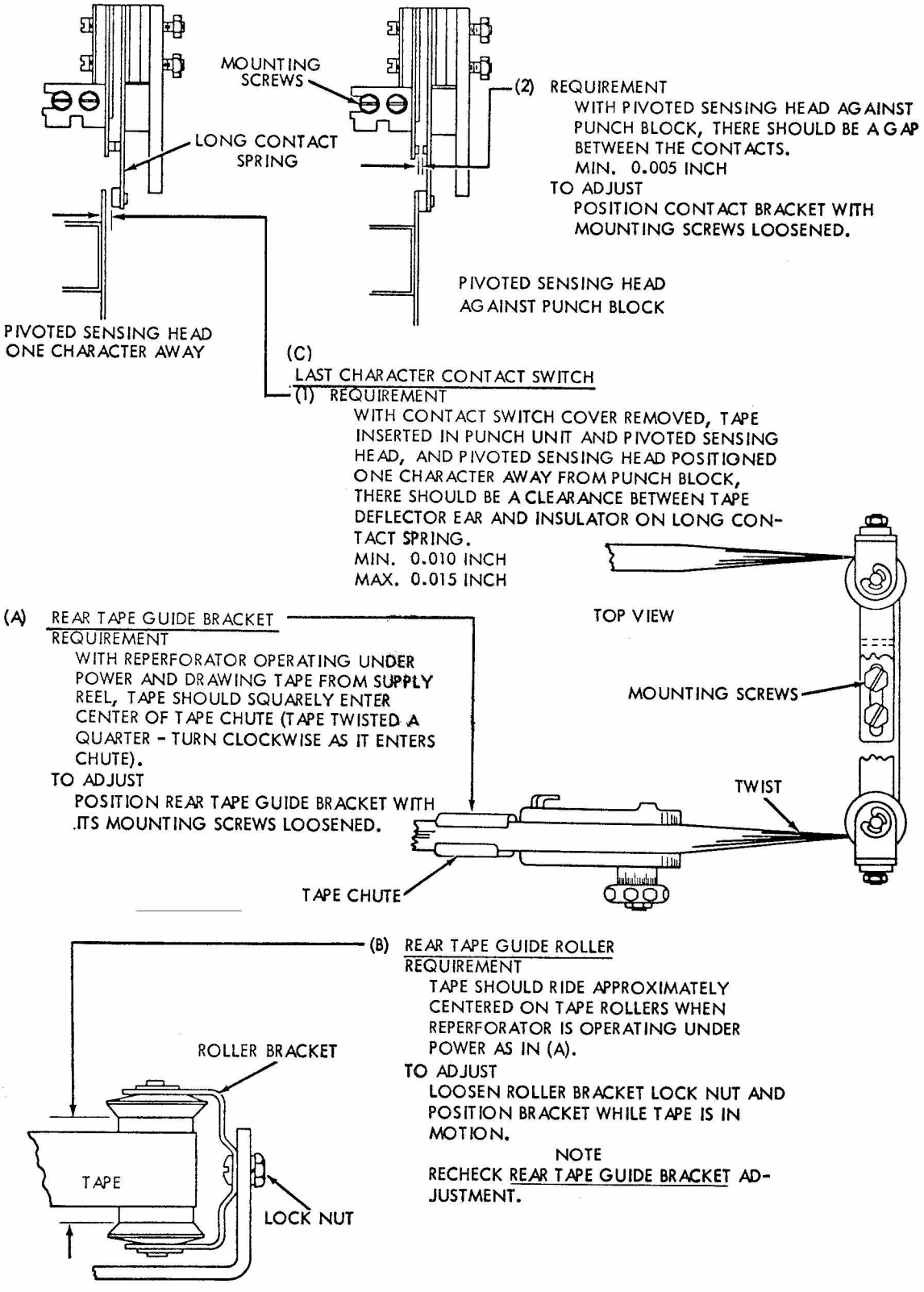
WITH TAPE FOLLOWING NORMAL PATH, AND PIVOTED HEAD APPROXIMATELY 15 CHARACTERS FROM PUNCH BLOCK, TAPE EDGE SHOULD NOT TOUCH DEPRESSOR.

TO ADJUST

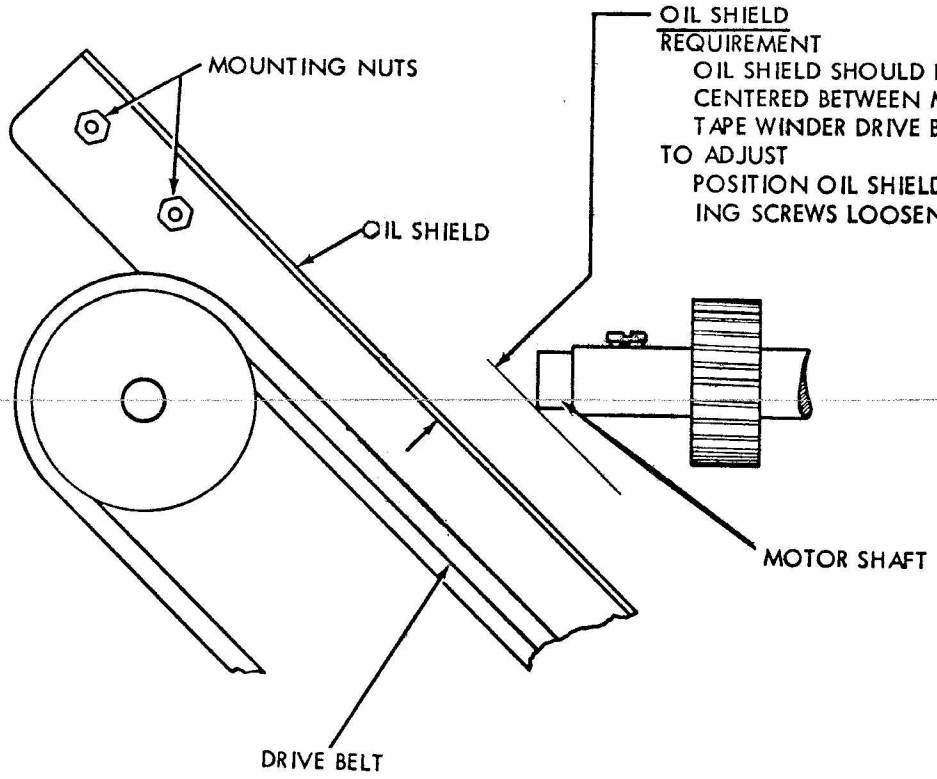
REFINE TAPE DEPRESSOR ADJUSTMENT AS SPECIFIED IN THE SECTION CONTAINING THE REQUIREMENTS AND ADJUSTMENTS FOR THE 28C TRANSMITTER-DISTRIBUTER UNIT.



2.11 Last Character Contact Switch, Rear Tape Guide Bracket and Roller



2.12 Oil Shield



2.13 Code Hole and Sensing Pin Alignment

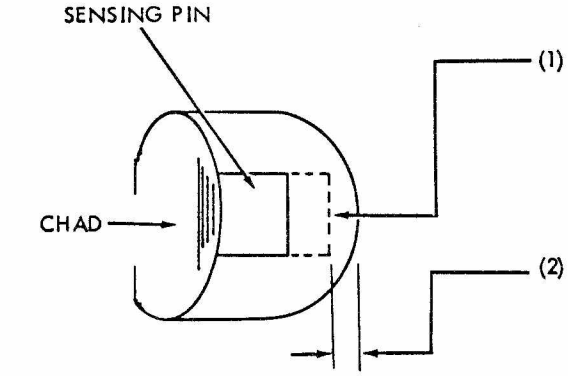
CODE HOLE-SENSING PIN ALIGNMENT

NOTE

ALL PRECEDING ADJUSTMENTS BETWEEN TRANSMITTER-DISTRIBUTOR AND TYPING OR NONTYPING REPERFORATOR SHOULD BE COMPLETED AND REQUIREMENTS MET BEFORE PROCEEDING WITH FOLLOWING FINAL ADJUSTMENTS.

TO CHECK

WITH A LOOP OF LTRS TAPE (PERFORATED UNDER POWER BY THE REPERFORATOR) BETWEEN REPERFORATOR AND TRANSMITTER-DISTRIBUTOR, AND PIVOTED SENSING HEAD RESTING AGAINST ITS BACKSTOP, MANUALLY TRIP SENSING SHAFT CLUTCH AND ROTATE SHAFT UNTIL SENSING PINS ARE IN THEIR UPPERMOST POSITION.



(1) REQUIREMENT

THE SENSING PINS SHOULD BE APPROXIMATELY CENTERED LATERALLY ON CODE HOLES.

TO ADJUST

REFINE PUNCH FEED HOLE LATERAL ALIGNMENT AS SPECIFIED IN SECTION CONTAINING THE REQUIREMENTS AND ADJUSTMENTS FOR THE 28 TYPING REPERFORATOR.

(2) REQUIREMENT

SENSING PINS SHOULD BE POSITIONED TOWARD REAR EDGE OF CODE HOLE

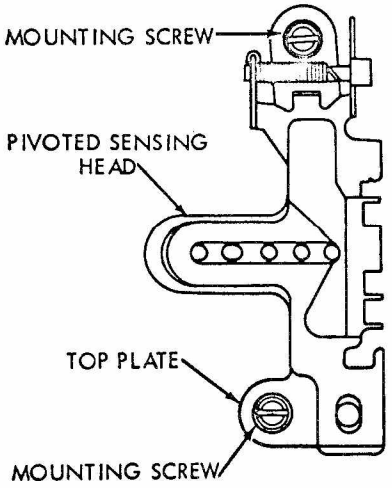
MIN. 0.008 INCH

CLEARANCE BETWEEN PIN AND REAR EDGE.

CHECK FIVE PLACES.

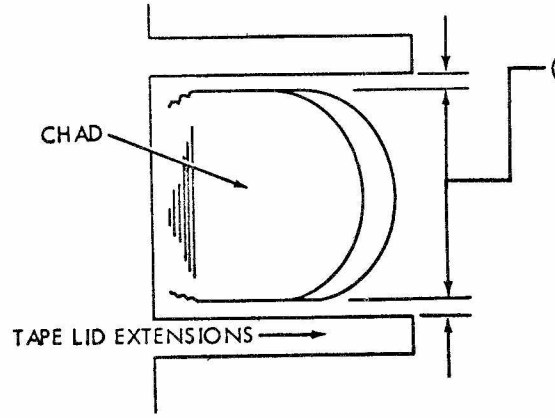
TO ADJUST

CHECK TAPE QUALITY FOR COMPLIANCE WITH TP156011 TAPE GAUGE AND, IF NECESSARY, REFINE DETENT ADJUSTMENT AS SPECIFIED IN THE SECTION CONTAINING THE REQUIREMENTS AND ADJUSTMENTS FOR THE 28 TYPING REPERFORATOR.



NOTE

IF REQUIREMENT STILL IS NOT MET, POSITION PIVOTED SENSING HEAD TOP PLATE IN REQUIRED DIRECTION WITH ITS MOUNTING SCREWS LOOSENED. RECHECK LAST CHARACTER CONTACT SWITCH ADJUSTMENT.



(3) REQUIREMENT

AS CODE HOLES ARE OPENED BY SENSING PINS, THERE SHOULD BE SOME CLEARANCE BETWEEN SIDES OF CHAD AND TAPE LID EXTENSIONS.

CHECK TEN PLACES.

TO ADJUST

POSITION PIVOTED SENSING HEAD TOP PLATE LATERALLY WITH ITS MOUNTING SCREWS LOOSENED. RECHECK (2).