

RADIO FREQUENCY INTERFERENCE (RFI)  
SUPPRESSION FOR 28 TYPING UNITS AND TYPING AND  
NONTYPING REPERFORATORS  
DESCRIPTION AND ADJUSTMENTS

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inner and outer shields. The inner and outer braided shields are electrically separated from each other and the three electrical conductors by flexible solid dielectric. The metallic container functions as a shielded enclosure for the selector magnet assembly.

2.03 Enclosed within the metallic container are the selector magnet coils, coil mounting bracket and selector armature. Each selector magnet coil contains an electrostatic shield which surrounds the coil windings. The selector coil mounting bracket provides mounting facilities for the coils, armature, and biasing spring. The receptacle, shielded cable, metallic container, and selector coils provide rfi suppression when used with associated rfi equipment.

1. GENERAL

1.01 This section presents a description of components necessary for radio frequency interference (rfi) suppression as applied to 28 typing units and typing and nontyping reperforators. In addition, this section is intended for use as a supplement to standardized literature. For more detailed information regarding the apparatus refer to Sections 573-115-100TC and 573-118-100TC.

2. DESCRIPTION

SELECTOR MECHANISM

2.01 The rfi selector mechanism mounts on the upper right side frame of the typing unit or the main frame of the reperforator. The selector consists of a special three-pin electrical receptacle, double shielded cable and metallic container.

2.02 The three-pin electrical receptacle insures a secure and shielded electrical connection to other associated apparatus. The double shielded cable electrically connects the three-pin electrical receptacle to the selector magnets. The shielded cable is composed of three electrical conductors encircled by braided



Rfi Selector Mechanism

3. ADJUSTMENTS

3.01 The following adjustments are arranged in a sequence that should be followed if a complete readjustment of the selector mechanism is undertaken.

3.02 Tools and spring scales required to perform these adjustments are listed in Section 570-005-800TC. After an adjustment

3.04 Selector Mechanism

is complete be sure to tighten any nuts or screws that are loosened. The adjusting illustrations indicate tolerances, positions of moving parts, spring tensions, and angles at which spring scales should be applied when measuring spring tensions.

3.03 References made to left or right, front or rear, up or down etc apply to the unit in its normal operating position facing the selector mechanism.

Note: To facilitate making the following adjustments, remove the selector cam-clutch assembly and range finder assembly in accordance with disassembly and reassembly Sections 573-115-702TC and 573-118-702TC. Remove the metallic container (base and cover) which house the selector magnets by unscrewing the magnet and base assembly mounting post from its associated nut plate. The nut plate is located in the rear of the selector mounting plate (refer to drawing in 3.06). The metallic container and enclosed selector magnets will detach from the selector mounting plate as an assembly. Detach the coil mounting bracket from the base by removing the coil mounting bracket nuts.

SELECTOR ARMATURE

(1) Requirement

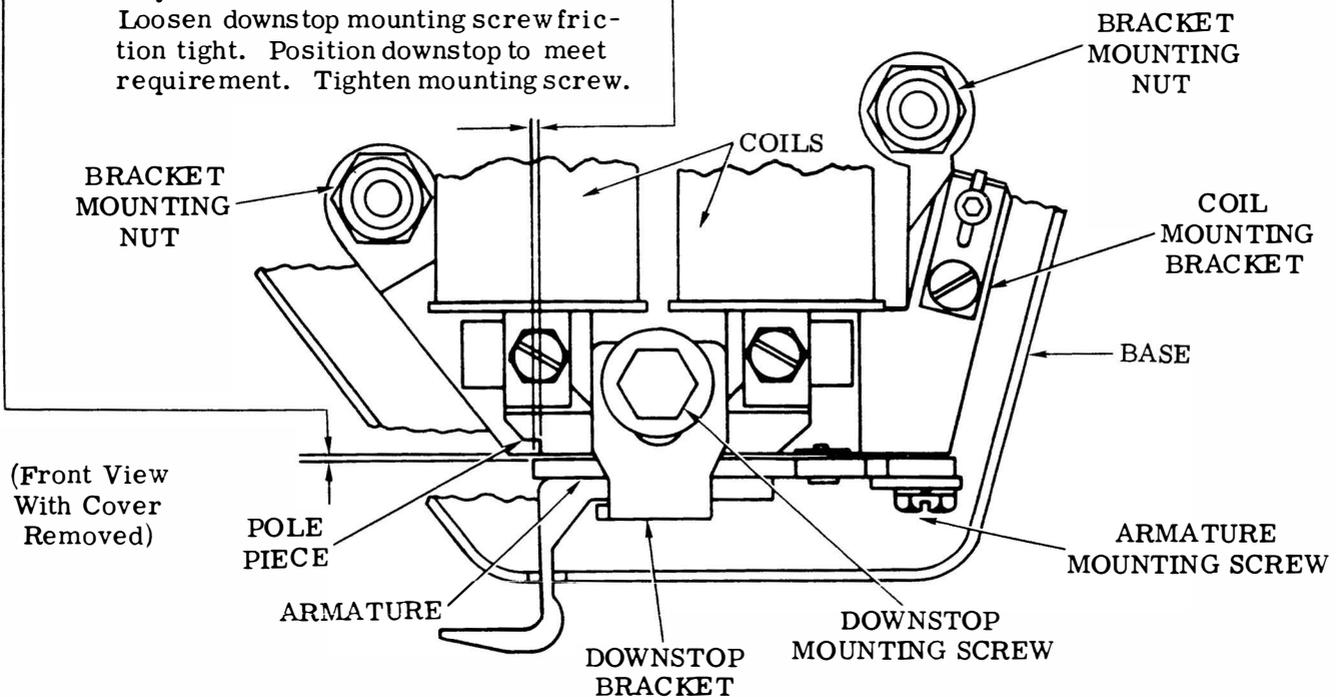
With the magnet assembly de-energized, removed from its base, and armature resting against its downstop, there should be  
 Min 0.025 inch---Max 0.030 inch  
 clearance between the end of armature and left edge of left pole piece.

To Adjust  
 Loosen downstop mounting screw friction tight. Position downstop to meet requirement. Tighten mounting screw.

(2) Requirement

The left edge of the armature should be flush within 0.010 inch with the left edge of the left pole piece.

To Adjust  
 Position the armature with the mounting screws loosened. Tighten screws.

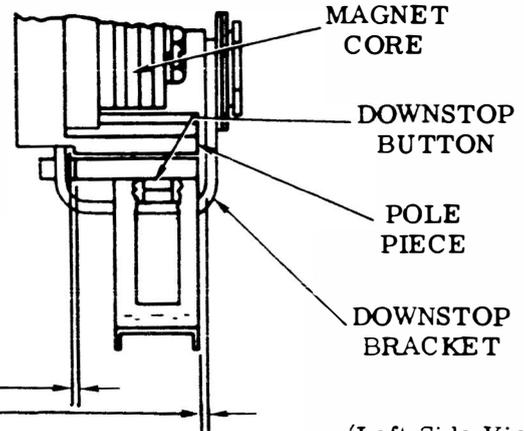


(Front View  
 With Cover  
 Removed)

3.05 Selector Mechanism (continued)

SELECTOR ARMATURE ALIGNMENT

- (1) Requirement  
Rear edge of armature should be flush within 0.010 inch with rear edge of pole pieces.
- (2) Requirement  
Clearance between front edge of armature and pole piece and inside of downstop bracket should be  
Min some ---Max 0.020 inch



(Left Side View)

To Adjust

Armature spring must have enough initial tension to hold armature firmly against pivot edge of casting. Position armature with mounting screws loosened. Tighten screws.

SELECTOR ARMATURE SPRING

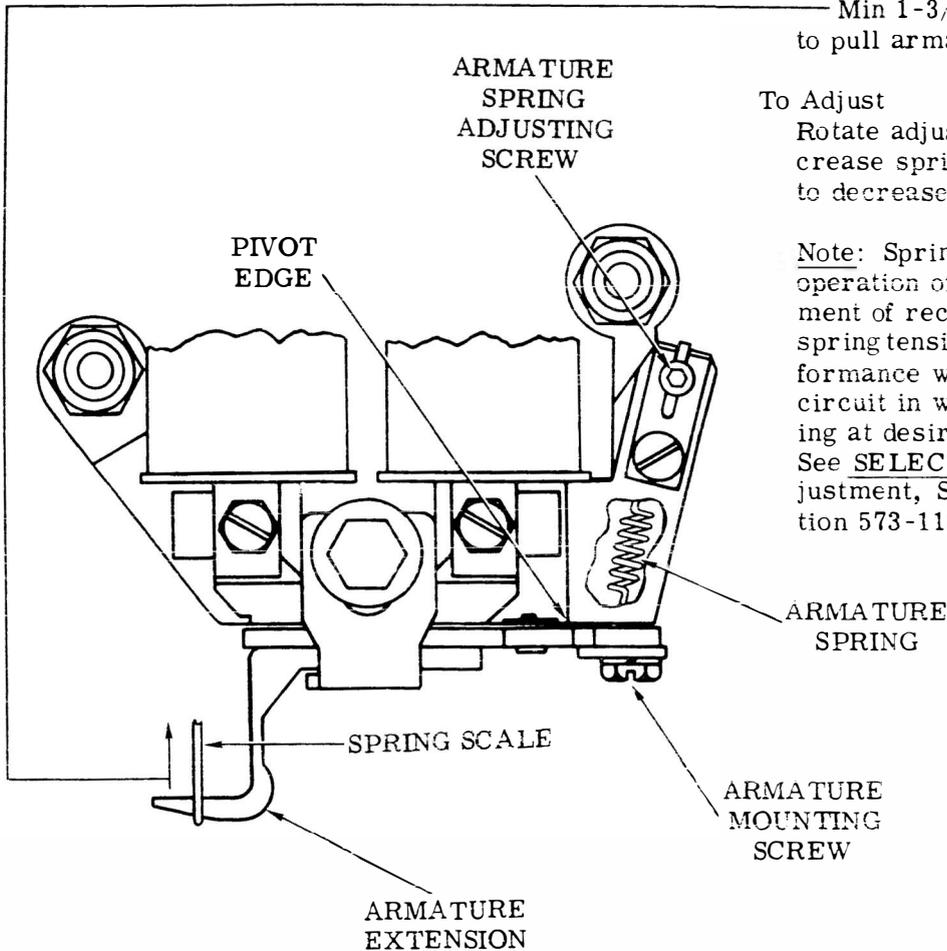
Requirement

Apply spring scale as nearly vertical as possible at end of armature extension. It should require  
— Min 1-3/4 oz ---Max 2-1/4 oz  
to pull armature to marking position.

To Adjust

Rotate adjusting screw clockwise to increase spring tension; counterclockwise to decrease spring tension.

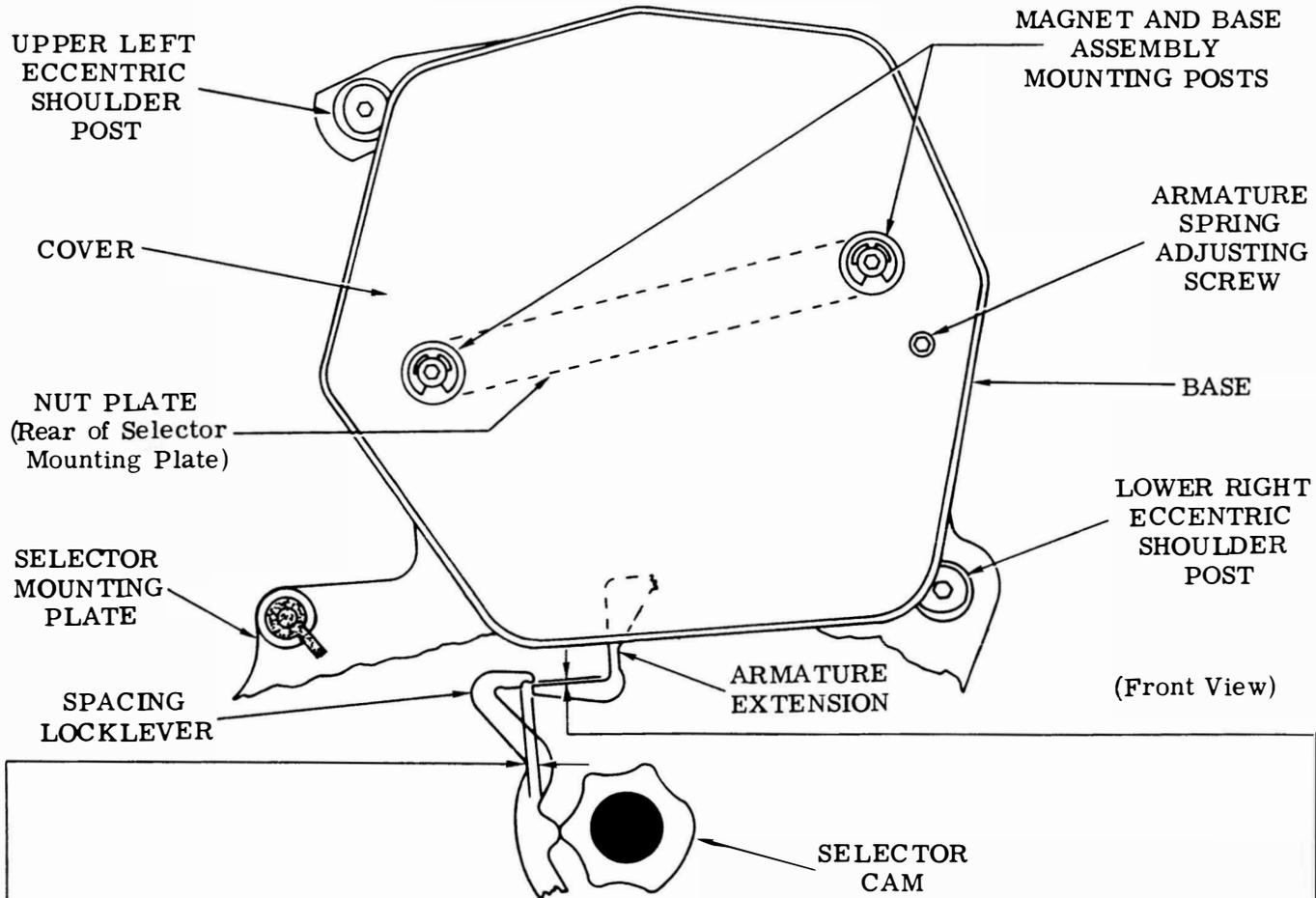
Note: Spring tensions given will permit operation of printer prior to measurement of receiving margins. Refine spring tension for maximum selector performance with unit connected to specific circuit in which it is to function (operating at desired speed and line current). See SELECTOR RECEIVING MARGIN adjustment, Section 573-115-700TC or Section 573-118-700TC.



(Front View  
Coils and Associated  
Bracket Removed  
From Base)

## 3.06 Selector Mechanism (continued)

Note: Before making the adjustment on this page, reassemble the magnet assembly by reversing the disassembly procedure (see note in 3.04). Reassemble and install on the typing unit, the cam-clutch assembly, the metallic container, and range finder; then proceed with the following adjustment.

**SELECTOR BASE (MAGNETS ENERGIZED)****(1) Requirement**

Spacing locklever on high part of cam. Armature in contact with left pole piece.  
Clearance between end of armature extension and shoulder of spacing locklever should be  
Min 0.020 inch--Max 0.035 inch

**(2) Requirement**

Clearance between upper surface of armature extension and upper step of spacing locklever should be  
Min some---Max 0.003 inch  
when locklever is held downward.

**To Adjust**

With a 1/16 inch hex wrench, loosen two magnet and base mounting posts friction tight. Adjust lower right eccentric to meet requirement (1). Adjust upper left eccentric to meet requirement (2). Tighten magnet and base assembly mounting posts securely.

Note: Initial positions of eccentric are: Lower right at 6 o'clock; upper left at 9 o'clock.