BELL SYSTEM PRACTICES
Teletypewriter and Deta Stations

SECTION P34.005 Issue 2, October, 1959 AT&TCo Standard

SELECTOR MECHANISM 28 TELETYPEWRITER REQUIREMENTS AND PROCEDURES

	CONTENTS	PAR. NO.
1.	GENERAL	. 1.01-1.03
2.	REQUIREMENTS AND ADJUSTING PROCEDURES	
	Range-finder knob phasing (Rear-nut model).	. 2.07
	Range-finder knob phasing (Front-nut model).	. 2.08
	Selector Mechanism	
	Marking locklever spring	. 2.04
	Selector-armature spring	. 2.04
	Selector cam lubricator	
	Selector Clutch	
	Bail-lever guide	2 .09
	Drum	2.05
	Latchlever spring	2.06
	Lever spring	2.05
	Pushlever reset-bail spring	2.06
	Pushlever spring	
	Spacing locklever spring	2.06
	Startlever spring	2.09, 2.10
	Stoparm	2.07, 2.08
	Selector Magnet	
	Selector armature	2.02
	Selector-magnet bracket	

SELECTOR MECHANISM 28 TELE-

1. GENERAL

1.01 This section covers the requirements and adjusting procedures for the selector mechanism used in the 28 teletypewriter. The general teletypewriter requirements are given in Section P30.012.

Caution: The electric power should be disconnected before the apparatus is removed from its protective housing. Where operation of the apparatus, after its removal from the housing, is required, power should be applied with appropriate precautionary measures taken to prevent accidents.

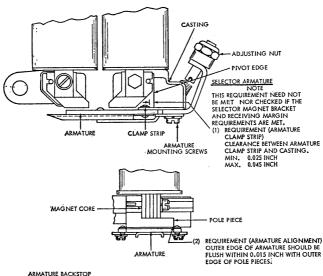
- 1.02 This section is reissued to:
 - (a) Incorporate the addendum. (2.11)
 - (b) Provide revised drawings of the selector magnet (2.02 and 2.03), and the selector mechanism. (2.04)
 - (c) Add a drawing of the range-finder mechanism with the front-nut knob. (2.08)
 - (d) Add a drawing of a selector-clutch mechanism without the adjustable guide. (2.10)
- 1.03 Changes are indicated by marginal arrows.

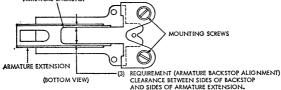
2. REQUIREMENTS AND ADJUSTING PROCEDURES

2.01 The following figures show the adjusting tolerances, positions of moving parts, and spring tensions. Where a figure shows interrelated parts, the sequence that should be followed in checking the requirements and making the adjustments shown on that figure is indicated by the letters (A), (B), (C), etc. Common requirements and adjustments of clutches are shown in Section P34.612.

NOTE

TO FACILITATE MAKING THE FOLLOWING ADJUSTMENTS, REMOVE THE RANGE FINDER AND SELECTOR MAGNET ASSEMBLIES. TO INSURE BETTER OPERATION, PULL A PIECE OF PAPER BETWEEN THE ARMATURE AND THE POLE PIECES TO REMOVE ANY OIL OR FOREIGN MATTER THAT MAY BE PRESENT. MAKE CERTAIN THAT NO LINT OR PIECES OF PAPER REMAIN BETWEEN THE POLE PIECES AND ARMATURE. BEFORE REMOUNTING THE RANGE FINDER, CHIECK AND ADJUST THE RANGE FINDER, KNOB PHASING.



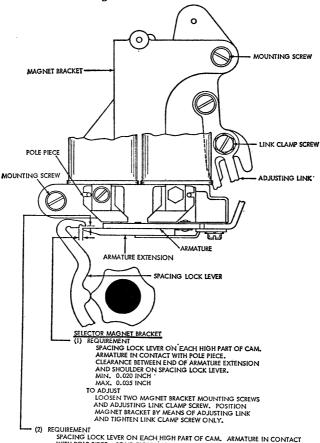


MIN. 0.010 INCH

TO ADJUST

- 1. POSITION ARMATURE SPRING ADJUSTING NUT TO HOLD ARMATURE FIRMLY AGAINST PIVOT EDGE OF CASTING.
- POSITION ARMATURE AND BACKSTOP WITH MOUNTING SCREWS LOOSENED.

SELECTOR MECHANISM 28 TELE-Typewriter Require. 1



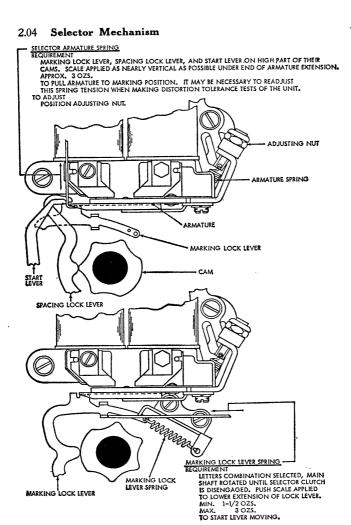
SORGEMENT SPACING LOCK LEVER ON EACH HIGH PART OF CAM. ARMATURE IN CONTACT WITH POLE PIECE. SOME CLEARANCE BETWEEN UPPER SURFACE OF ARMATURE EXTENSION AND LOWER SURFACE OF SPACING LOCK LEVER WHEN LOCK LEVER IS HELD DOWNWARD.

15 HELD DOWNWARD.

MAX. 0.03 INCH

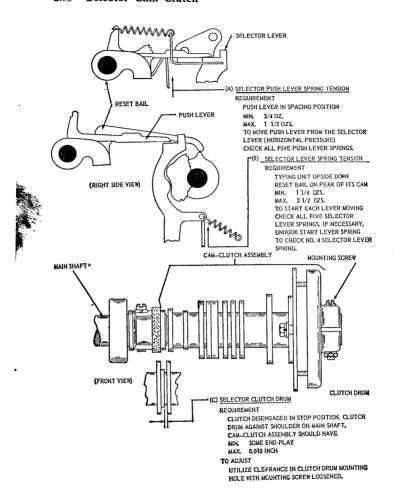
TO ADJUST

POSITION UPPER END OF MAGNET BRACKET. TIGHTEN TWO MAGNET BRACKET MOUNTING SCREWS. RECHECK REQUIREMENT (1).

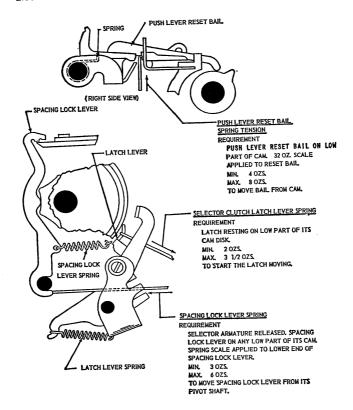


SELECTOR MECHANISM 28 TELE-Typewriter Require-

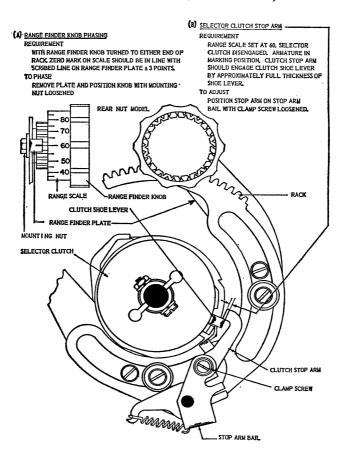
2.05 Selector Cam Clutch



2.06 Selector-Clutch Mechanism





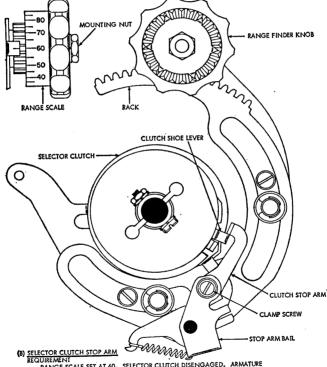


2.08 Range-finder Mechanism (Front-nut Knob)

(A) RANGE FINDER KNOB PHASING REQUIREMENT

WITH RANGE FINDER KNOB TURNED TO EITHER END OF RACK, ZERO MARK ON SCALE SHOULD BE WITHIN 3 POINTS OF SCRIBED LINE ON RANGE FINDER PLATE.

REMOVE MOUNTING NUT, DISENGAGE KNOB FROM RACK AND POSITION KNOB. RE-ENGAGE KNOB WITH RACK AND REPLACE MOUNTING NUT.

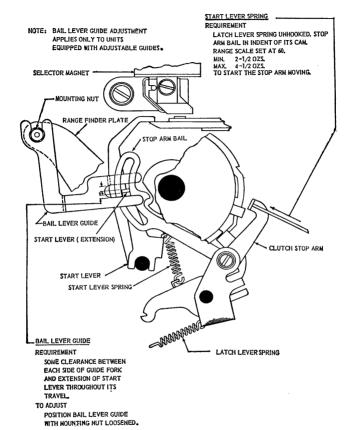


RANGE SCALE SET AT 60. SELECTOR CLUTCH DISENGAGED. ARMATURE IN MARKING POSITION. CLUTCH STOP ARM SHOULD ENGAGE CLUTCH SHOE LEVER BY APPROXIMATELY FULL THICKNESS OF SHOE LEVER. TO ADJUST

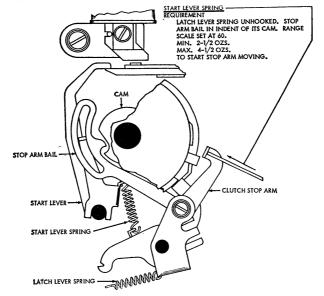
POSITION STOP ARM ON STOP ARM BAIL WITH CLAMP SCREW LOOSENED.

SELECTOR MECHANISM

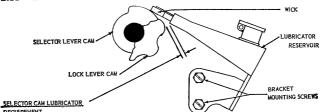
28 TELE-TYPEWRITER REQUIRE-



Selector-clutch Mechanism (without adjustable guide)



2.11 Selector Cam Lubricator



REQUIREMENT

THE LUBRICATOR TUBE SHOULD CLEAR THE HIGH PART OF THE LOCK LEVER CAM BY AT LEAST 0.020 INCH

THE HIGH PART OF THE SELECTOR LEVER CAMS SHOULD TOUCH THE LUBRICATOR WICK, BUT SHOULD NOT RAISE IT MORE THAN 1/32 INCH.

TO ADJUST

POSITION THE LUBRICATOR BRACKET WITH ITS MOUNTING SCREWS LOOSENED.

NOTE: THERE SHOULD BE SOME CLEARANCE BETWEEN THE MARKING LOCK LEVER SPRING (SEE 2.04) AND THE LUBRICATOR RESERVOIR.

SELECTOR MECHANISM

28 TELE-

TYPEWRITER

P34.005 REQUIRE-