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BELL SYSTEM PRACTICES Teletypewriter and Data Stations ADDENDUM P34.004 Issue 1, May, 1958 AT&TCo Standard

MOTORS AND GOVERNORS 28 TELETYPEWRITER REQUIREMENTS AND PROCEDURES

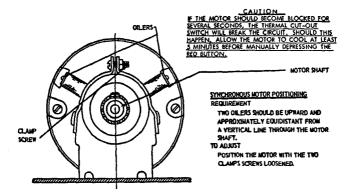
1. GENERAL

- 1.001 This addendum supplements Section P34.004, Issue 1.
- 1.002 This addendum is issued to add a caution on the operation of synchronous motors.

2. REQUIREMENTS AND ADJUSTING PROCEDURES

The following paragraph replaces Paragraph 2.02 of the Section.

2.02 Synchronous Motor



ADDENDUM P34.004 Page 1 1 Page

MOTORS AND GOVERNORS 28 TELETYPEWRITER REQUIREMENTS AND PROCEDURES

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SECTION P34.004 Issue 2, July, 1959 AT&TCo Standard

MOTORS AND GOVERNORS 28 TELETYPEWRITER REQUIREMENTS AND PROCEDURES

	CONTENTS	PAR. NO.	
1.	GENERAL	1.01-1.03	
2.	REQUIREMENTS AND ADJUSTING PROCEDURES	2.01-2.04	
	Governor		
	Governor-brush spring	2.04	
	Governor contact	2.03	
	Governor-contact backstop	2.03	
	Motors		
	Governed-motor positioning	2.03	
	Governed-motor-speed adjustment	2.04	
	Synchronous-motor positioning	2.02	
3.	3. REFERENCE TO BELL SYSTEM PRACTICES		

1. GENERAL

1.01 This section contains the requirements and adjusting procedures for motors and governors 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 accident.

MOTORS AND GOVERNORS 28 TELETYPEWRITER REQUIRE-P34.004 MENTS AND PRO-

- 1.02 This section is reissued to:
 - (a) incorporate the addendum.
 - (b) add to the caution in 2.02 the words on avoiding repeated depression of the red button.

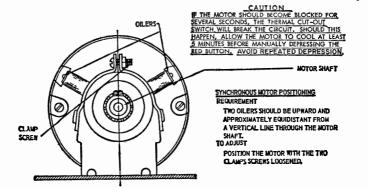
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- (c) revise 2.04 on the use of tuning forks.
- (d) add the reference to Bell System Practices.
- 1.03 Changes are indicated by marginal arrows.

2. REQUIREMENTS AND ADJUSTING PROCEDURES

- 2.01 The following figures show the adjusting tolerances, positions of moving parts, and spring tensions.
- 2.02 Synchronous Motor

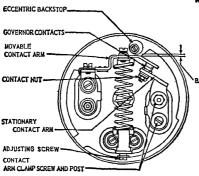


2.03 Governed Motor

GOVERNED MOTOR POSITIONING

REQUIREMENT

MOTOR SHOULD BE CENTRALLY POSITIONED IN ITS RUBBERMOUNTS SO AS TO PROVIDE AT LEAST 0.00 INCH CLEARANCE BETWEEN THE MOTOR HOUSING AND THE CRADLE AT THE GOVERNOR END. THE CABLE SHOULD ALSO CLEAR THE GROWMET IN THE SCREEN BY AT LEAST 0.03 INCH



A <u>GOVERNOR CONTACT</u> REQUIREMENT THE CONTACTS SHOULD MEET SQUARELY AND NOT OVERLAP MORE THAN 0.010 INCH. TO ADJUST

> POSITION THE STATIONARY CONTACT AND CONTACT ARM WITH THE CLAMP SCREW AND POST LOOSENED.

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B. GOVERNOR CONTACT BACKSTOP REQUIREMENT

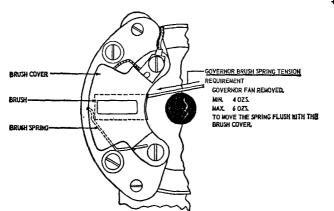
> CLEARANCE BETWEEN THE WOVABLE CONTACT ARM AND ITS ECCENTRIC BACKSTOP.

- MIN. 0.020 INCH MAX. 0.040 INCH
- TO ADJUST

TO ADJUS

ROTATE THE ECCENTRIC BACKSTOP WITH CLAMPING SCREW LOOSENED.

MOTORS AND GOVERNORS 28 TELETYPEWRITER REQUIRE-MENTS AND PRO-



2.04 Motor Governor-brush and Motor Speed

GOVERNED MOTOR SPEED ADJUSTMENT

REQUIREMENT

(preliminary Setting) with the target illuminated and viewed through the \cdot vibrating smutters of the tpicasce tuning for (87.6 vps), the spots on the 6-spot target should appear stationary while fortating.

(FINAL SETTING) NOW WITH THE SPEED SLIGHTLY INCREASED AND THE TARGET IL-LUMINATED AND VIEWED THROUGH THE VIBRATING SHUTTERS OF THE FORK, THE SPOTS ON THE 35-SPOT TARGET SHOULD APPEAR STATIONARY WHILE ROTATING. THE 4-SPOT TARGET IS FOR USE WITH A KOM-BELL TUNING FORK (120 VPS).

TO ADJUST

STOP THE MOTOR AND TURN THE ADJUSTING SCREW AS INDICATED ON THE GOVERNOR COVER,

NOTE

IT IS POSSIBLE TO ADJUST THE MOTOR AT SOME MULTIPLE OF THE CORRECT SPEED, TO CHECK POR CORRECT SPEED, HAVE THE TYPE BOX CARRIAGE AT THE LEFT MARGIN, SET UP ANY CHARACTIRE NOT THE SELECTOR AND MANUALLY TRP. THE TYPE BOX CUTCH TRIP LEVER. IF THE UNT 35 EQUIPPED WITH 75 SPEED GOERATION, IT SHOULD PRINT 70 CHARACTERS IN 10 SECOND'S, WITH 75 SPEED GEARS – 44 CHARACTERS IN 5 SECOND'S, WITH 100 SPEED GEARS – 37 CHARACTERS IN 5 SECONDS.

3. REFERENCE TO BELL SYSTEM PRACTICES

Teletypewriter Apparatus, Speed Regulation

P30.020