TELETYPE CORPORATION Skokie, Illinois, U.S.A.

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MOTOR UNITS

ADJUSTMENTS

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CONTENTS

1. GENERAL

1.01 This section is reissued to include adjustments formerly given in other sections, to include the latest engineering information, and to change the title. Since this revision is of a general nature, marginal arrows which indicate changes have been omitted.

1.02 The adjustment information given in this section and the section covering general teletypewriter requirements and adjustments provide the information necessary for maintenance of the motor unit.

1.03 The illustrations in this section show the adjusting tolerances, positions of moving parts, and spring tensions.

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SECTION 570-220-700

2. MINIATURIZED SYNCHRONOUS MOTOR UNITS

2.01 Motor Positioning



2.02 Motor Shield

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SECTION 570-220-700

2.03 Air Ducts and Capacitor Position



3. STANDARD AND HEAVY DUTY SYNCHRONOUS MOTOR UNITS

3.01 Motor Positioning



CAUTION: IF MOTOR BECOMES BLOCKED FOR SEVERAL SECONDS, THERMOSTATIC CUTOUT SWITCH (ON UNITS SO EQUIPPED) WILL BREAK CIRCUIT. SHOULD THE HAPPEN, ALLOW MOTOR TO COOL AT LEAST 5 MINUTES BEFORE DEPRESSING RED RESET BUTTON. AVOID REPEATED RESETTING.

MOTOR POSITIONING

- Requirement (Upright Mounted Motors) Oilers should be upward and approximately equidistant from a vertical line through motor shaft.
- (2) Requirement (Inverted Mounted Motors)

Oilers should be downward and approximately equidistant from a vertical line through motor shaft.

To Adjust

Position motor with clamp screws (2) loosened.

MOTOR ADJUSTING STUD (IF SO EQUIPPED)

Requirement

Barely perceptible backlash between drive gear and driven gear at point where backlash is least.

To Adjust

With lock nut loosened, position adjusting stud. Tighten nut while holding stud in position.

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ECCENTRIC BACKSTOP

MOVABLE CONTACT

CONTACT NUT

STATIONARY CONTACT ARM

ARM

GOVERNOR

CONTACTS

4. SERIES GOVERNED MOTOR UNITS

4.01 Motor Positioning and Governor

MOTOR POSITIONING (NOT ILLUSTRATED)

Requirement

Motor should be centrally positioned in its rubber mounts so as to provide at least 0.020 clearance between the motor housing and the cradle at the governor end. The cable should also clear the grommet in the screen by at least 0.030 inch.

(A) GOVERNOR CONTACT BACKSTOP

Requirement

Clearance between the movable contact arm and its eccentric backstop. — Min 0.020 inch---Max 0.040 inch

To Adjust Rotate the eccentric backstop with clamping screw loosened.

(B) GOVERNOR CONTACT

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.

CONTACT ARM CLAMP SCREW AND POST

> CAUTION: EXCESSIVE PRESSURE AGAINST GOVERNOR COVER ASSEMBLY DURING REMOVAL MAY DAMAGE SCREENED WINDOW.

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4.02 Motor Governor



Requirement

With target illuminated and viewed through the vibrating shutters of a 120 vps turning fork the spots on the 4-spot target should appear stationary while rotating. With target illuminated and viewed through the vibrating shutters of an 87.6 vps tuning fork the spots on the 6-spot target should appear stationary while rotating and with speed slightly increased the spots on the 35 spot target should appear stationary.

To Adjust

Stop the motor and turn the adjusting screw as indicated on governor cover. For units with screened governor covers, stop the motor, remove the TP152035 plug from cover. Turn adjusting screw as indicated on periphery of target.

Note: It is possible to adjust the motor at some multiple of the correct speed. To check motor $\overline{\text{speed}}$ when used with a page printer, return typebox carriage to left margin, set up any character in selector and manually trip typebox clutch trip lever. Printing should occur as follows:

WPM	PRINTED CHARACTERS	REQUIRED TIME
6 0	70	10 seconds
75	44	5 seconds
100	57	5 seconds

