

TEMPORARY CORRECTION
T-5 TO INSTRUCTION BOOK FOR TELETYPEWRITERS TT-47/UG, TT-48/UG,
TT-69/UG, AND TT-70/UG, NAVSHIPS 91393
T-6 TO INSTRUCTION BOOK FOR TELETYPEWRITERS TT-47A/UG, TT-48A/UG,
TT-69A/UG, TT-70A/UG, TT-171/UG, NAVSHIPS 91713
T-3 TO INSTRUCTION BOOK FOR TELETYPEWRITER TT-176/UG, NAVSHIPS 92361

The following pages of Bulletin 217B; Pages 7-36, 59-70 inclusive.

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T-6 to NAVSHIPS 91713 T-3 to NAVSHIPS 92361

### TEMPORARY CORRECTION

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This temporary correction, when used with the applicable instruction book, covers Modification Kits MK-698/UG which includes Keyboard Teletype No. LK35ARN, TT-388/UG and MK-699/UG which includes Keyboard Teletype No. LK30ARN, TT-357/UG.

Modification Kits MK-698/UG, MK-699/UG modify the teletypewriter from 7.42 unit code to 7.00 unit code with synchronous pulsed transmission and 45.5, 50, or 75 Baud speed. In addition the keyboard connector on Power Distribution Panel SB-154/UG has been changed. Installation information for these kits are covered in Teletype Specification 50122S, NAVSHIPS 981560. Basically all references to Keyboards MX-1114/UG, MX-1114A/UG, MX-1677/UG apply equally to Keyboards TT-357/UG and TT-388/UG except for the additions to Sections 6 and 7, and where designated herein.

Make the following pen and ink corrections. Insert this temporary correction in the technical manual immediately after the front cover and on top of the previous Temporary Correction.

PAGE.	CHANGE IN EFFECT	PARA. & LINE OR FIG. & LOCATION	ACTION	
		Section 3, Installation	At the end of this section add"See T-5 (NAVSHIPS 91393)", "T-6 (NAVSHIPS 91713)" or "T-3 (NAV-SHIPS 92361)" for reference to the following paragraphs.	

- 1. Modification Kit MK-698/UG, MK-699/UG (includes 194033 Modification Kit).
  - a. The 194033, MK-698/UG, MK-699/UG Modification Kits consists of:

			194033	MK <b>-</b> 698/UG	MK -699/UG
1	152465	Connector	X		,
1	163459	Gear	X		
1	163503	Gear	X		
1	163504	Gear Set		X	X
1	163505	Gear Set		X	X
1	173595	Gear Set		X	X
1	194033	Modification Kit (listed herein)		X	X
1	194342	Plate, Identification	X		
1	LK30AR	N (TT-357/UG) Keyboard			X

PA	GE	CHANGE IN	PARA.&L	line or		
<b>N</b>	10.	EFFECT	FIG. & LC	CATION		ACTION
				194033	MK <b>-</b> 698/UG	MK-699/UG
1 LK35ARN (TT-388/UG) Keyboard			X	X		
1	501225	Specification			X	X

- b. Replace the present keyboard with Keyboard LK30ARN (TT-357/UG) or LK35ARN (TT-388/UG).
  - c. Remove the AC Motor and install it on the keyboard supplied.
- d. Replace the present gear set with the 173795 (45.5 Baud), 163504 (50 Baud), or 163505 (75 Baud) Gear Set.
  - e. For aerological weather service, keyboards.
- (1) Remove the keyboard arrangement 151739\*\*\* screw (located on the right side of the keyboard, just above the keyboard keys). Install this screw on the keyboard supplied in place of the present screw.
- (2) Use a keylever remover to remove the weather aerological keylevers and install these on the keyboard supplied in place of the present keylevers.
- f. Replace the 150441 and 150439 Gears with the 163503 and 163459 Gears respectively.
- g. For electrical service unit not equipped with the 152465 Connector replace the 151815 Connector with the 152465 Connector in accordance with Figure 1-28.
- h. Remove backing from the 194342 Identification Plate and apply plate (on clean surface) below the present overall set plate.

All affected Sections 6 To these pages add "See T-5 (NAV-pages and 7 SHIPS 91393)", "T-6 (NAVSHIPS 91713)" or "T-3 (NAVSHIPS 92361)" for information on Keyboard TT-388/UG or TT-357/UG

- 1. REMOVAL AND REPAIR
  - a. KEYBOARD MECHANISMS (NEW DESIGN)
    - (1) SIGNAL GENERATOR
      - (a) To remove the signal generator assembly, proceed as follows:

PAGE. CHANGE IN NO. EFFECT

# PARA. & LINE OR FIG. & LOCATION

**ACTION** 

- 1. Remove the typing unit if it is present.
- 2. Remove the 154131 Contact Box cover, and disconnect the signal line leads from the 154042, 154043 Contact Terminals.
- 3. Remove the two 153841 hold-down screws at the front of the 154200 signal generator frame, and the 74805 screw at the right rear of the frame.
- 4. Lift the signal generator carefully, while holding the universal bail back so that the non-repeat lever clears and its spring will not be excessively stretched.
  - 5. See applicable figure for disassembly of signal generator.

#### CAUTION

If the non-repat lever gets pulled down approximately 90 degrees from normal position, its spring might be stressed beyond elastic limits which will result in assembly malfunction.

- (b) To replace the signal generator, reverse the procedure used in removing it.
- (2) KEYBOARD LABELS, KEYBOARD HOOK, KEYBOARD FRONT SEAL AND KEYBOARD SEAL PLATES
- (a) To remove the plastic windows and labels, hood, seal, and seal plates, proceed as follows:
- Remove the four 154202 screws which secure the 154198 windows and label sets.
- 2. Remove the two 151632 Screws underneath the 154110 hook that hold the hood to the  $15\overline{4203}$  hood mounting bracket; and remove the four 151659 Screws on top of the hood which hold it to the 154210, 154211 left and right frame mounting brackets.
  - Pull the hood forward to remove.
- 4. Stretch the 154020 Rubber Keyboard Seal off its 154057 154058 plates.
- 5. Remove the four 151442 Screws and two 154203 Hood Mounting Brackets.

T-5 to NAVSHIPS 91393 T-6 to NAVSHIPS 91713 T-3 to NAVSHIPS 92361

PAGE. CHANGE IN PARA. & LINE OR NO. EFFECT FIG. & LOCATION

ACTION

6. Remove the 154058 Upper Seal Plate by unscrewing the three 151722 Screws at its rear.

7. Remove the 154057 Lower Seal Plate by unscrewing the two 151632 Screws at its front.

- 8. See applicable figure.
- (b) To replace the keyboard labels, reverse the procedure used in removing it.

### (3) KEYBOARD

- (a) To remove the keyboard assembly, proceed as follows:
  - 1. Remove the typing unit and signal generator assembly.
- 2. Remove the plastic windows and labels, hood, seal, and seal plate.
- 3. Remove the four 151631 Screws that hold the 154210, 154211 left and right frame-mounting brackets to the front of the 154000 base.
- 4. Remove the two 151632 Screws which hold the 154068, 154069 right and left code lever guide brackets on the top of the base, and the two 151632 Screws at the extreme right and left of the 154055 Front Bracket which hold it on the base.
- 5. When these four screws in front and four on top of the base have been removed, tip up the front of the keyboard assembly and pull it forward, disengaging the function levers.
- 6. Not that all function levers are under their corresponding function bails except the keyboard lock function lever which fits on top of its function bail.
- 7. When reassembling, depress the keyboard lock keylever so that the lock function lever will go in over its bail, instead of under as the other function levers should.
  - 8. Disassembly of the Keyboard is shown in the temporary correction.

#### NOTE

It is easier to disassemble and reassemble the keyboard assembly with the base standing up on its rear side.

PAGE. CHANGE IN NO. **EFFECT** 

PARA. & LINE OR FIG. & LOCATION

ACTION

(b) To replace the keyboard assembly reverse the procedure used in removing it.

### (4) SIGNAL GENERATOR CONTACT BOX ASSEMBLY

- (a) To remove the contact box assembly, proceed as follows:
- 1. Remove the 154131 Contact Box cover and disconnect the signal line leads.
  - 2. Unhook the 86304 Toggle Drive Link Spring.
- 3. Unscrew the two 151632 Screws at the front of the 154009 Front Plate that hold the contact box assembly.
- 4. Disengage the 156644 Drive Link from the transfer bail and lift off the assembly. It is most economical to replace the entire contact assembly if contacts need replacement.
  - 5. Disassembly of the contact box is shown in herein.
- (b) To replace the contact box, reverse the procedure used in removing it.

### (5) TRANSFER LEVER LOCKING BAIL

- (a) To remove the transfer lever locking bail, proceed as follows:
  - 1. Remove the signal generator assembly from the keyboard.
  - Remove the contact box assembly.
  - Remove the 70388 Transfer lever locking bail spring.
- Take out the 154140 Lock Bail by unlatching the clutch and rotating the shaft to position the cam in such a way so that the locking bail can be unhooked and dropped down from its guide post. Turn the locking bail clockwise until it forms a right angle with its guide and remove it through the bottom of the frame.
  - 5. See applicable figure for disassembly of the mechanism.
- (b) To replace the transfer lever locking bail, reverse the procedure used in removing it. T-5/T-6/T-3

5

PAGE. CHANGE IN NO. EFFECT

PARA. & LINE OR FIG. & LOCATION

**ACTION** 

#### NOTE

It may be necessary to move the shaft back and forth to position the cam for maximum clearance.

### (6) SIGNAL GENERATOR SHAFT

- (a) To remove the cam, clutch, and shaft assembly, proceed as follows:
  - 1. Remove the transfer lever locking bail.
- 2. Remove the two 151631 Screws which mount the 154101 Clutch Shaft rear mounting plate to the 154200 signal generator frame, and remove the 112626 Nut which locks the shaft to the front of the frame.
- 3. Hold the 154033 Clutch Latch Lever and the 154034 Clutch Stop Lever away and pull back on the clutch shaft rear mounting plate to disengage the shaft from the front plate.
- 4. Remove the entire cam, clutch, and shaft assembly by rotating it to clear the various transfer levers. The 154019 code bar bail eccentric follower, the 154138 Felt Washer, and the 154083 Cam Spacer will all fall free. These must be repositioned before reassembly.
- 5. To take the cam (with clutch assembly) off the shaft, disengage the clutch by holding the clutch shoe lever against the stop lug and slide the cam and clutch off.
  - 6. See applicable figure for disassembly of the shaft assembly.
- (b) To replace the shaft assembly, reverse the procedure used in removing it.

### (7) KEYTOP GUIDE PLATE

- (a) To remove the keytop guide plate, proceed as follows:
  - 1. Remove the plastic windows and labels, and hood.
- 2. Remove the 151045 Space Bar by unscrewing the two 151223 Shoulder Screws that fasten it to the 154117 Space Bar Bail.

PAGE. CHANGE IN PARA. & LINE OR
NO. EFFECT FIG. & LOCATION ACTION

- 3. Remove the 151659 Screw on the keytop guide plate under the space bar and the two 151659 Screws in the upper corners of the plate which hold the plate to the frame.
  - 4. Work the guide plate off the keytops and let them fall free.
  - 5. See applicable figure for disassembly of the mechanism.
- (b) To replace the guide plate over the keylevers, flop all levers to the rear. Place the front end of the guide plate down on the frame; and push the keylevers into their respective holes, starting with the bottom row and proceeding upward to the top row.

### 2. LUBRICATION (Keyboard)

#### a. GENERAL

- (1) Lubricate the equipment as directed in the figures herein. These figures indicate the points to be lubricated and the type and quantity of lubricant to be used. On new equipment, after a few weeks of service, relubricate to make certain that all points receive lubricant.
  - (2) Follow this lubrication schedule:

OPERATING SPEED		LUBRICATING INTERVAL
BAUD 45.5 (65 WPM)	WPM 60	3,000 hours or
50.0 (71 WPM)	75	1 year 2,400 hours or 9 months
75.0 (106 WPM)	100	1,500 hours or 6 months

(3) For normal or high temperatures (5° to 55° C; 41° to 131° F) use Teletype KS-7470 oil at all locations where the use of oil is indicated. For lower temperatures, dilute the KS-7470 oil with kerosene (half and half). Use KS-7471 grease on all surfaces where grease is indicated, except the motor bearings. Apply two drops of KS-7470 oil to motor bearings every four months (depress oiler with metal object). If the motor is disassembled at any time, repack the bearings with KS-7471 grease.

PAGE.	CHANGE IN	PARA. & LINE OR	
NO.	EFFECT	FIG. & LOCATION	ACTION

- (4) The equipment should be thoroughly lubricated, but over-lubrication which might allow oil to drip or grease to be thrown on other parts should be avoided. The following general instructions supplement the specific lubricating points shown on the following pages:
  - (a) Apply one drop of oil to all spring hooks.
  - (b) Apply a light film of oil to all cam surfaces.
  - (c) Apply a thick coat of grease to all gears.
  - (d) Saturate all felt washers, oilers, etc.
  - (e) Apply oil to all pivot points.
  - (f) Apply oil to all sliding surfaces.

### NOTE

Exercise special care to prevent any oil or grease from getting between the armatures and the pole pieces of the selector magnets, the transmitter distributor clutch magnets or the tape-feed out magnets.

- (5) Apply a thick film of grease to all gears and to the spacing clutch reset cam. When gear changes are made to change operating speed of the components, lubricate the replacement pinion and gear when the change is made.
- (6) Specific lubrication requirements and the amount of lubricant are indicated at each lubrication point in accordance with the following code:
  - 0 Apply one drop of oil.
  - 02 Apply two drops of oil.
  - 03 Apply three drops of oil.
  - G Apply thin coat of grease.
  - SAT Saturate with oil (felt washers, etc.)
- (7) Lubricate according to the applicable lubrication instructions whenever parts or assemblies are removed and reassembled, or when handling the equipment for adjustment purposes may have removed some or all of the lubricant.

PAGE, NO. CHANGE IN EFFECT PARA, & LINE OR FIG. & LOCATION

**ACTION** 

#### NOTE

During each lubrication period, check the following adjustments:

Carriage draw wire rope.

Printing carriage position.

Printing hammer bearing stud.

Printing hammer stop bracket.

Printing arm.

Printing trip link.

Typewheel.

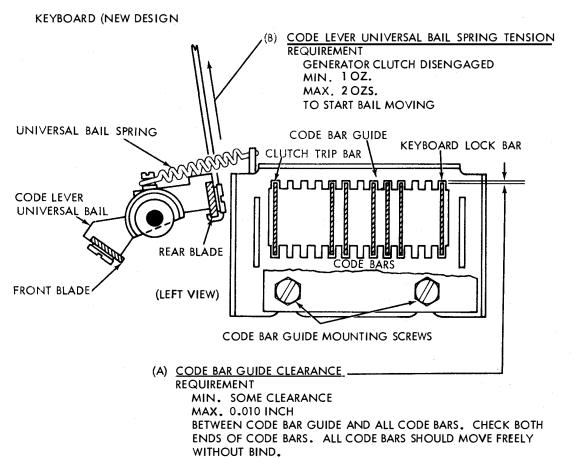
Print hammer.

Dashpot vent screw and check transfer slide for binds.

### 3. SYNCHRONOUS PULSED TRANSMISSION MECHANISM (Figure 2-5).

The synchronous pulsed transmission mechanism provides a means of initiating signal transmission from the keyboard, at a predetermined rate, upon reception of a 0.050 ampere external clocking pulse of 20 millisecond duration.

- (1) When any green key on the keyboard is depressed, the reset bail moves right and releases all selected code bars. Also released is the universal code bar which moves right and closes the clutch magnet conditioning contacts setting up the clutch trip magnet to receive the external clocking pulse.
- (2) Upon reception of the external clocking pulse, the clutch trip magnet energizes and unblocks the clutch trip bar. As the clutch trip bar moves to the right it engages the clutch trip bail extension and trips the signal generator clutch allowing the signal generator cam shaft to rotate and transmit the proper sequential signal. After one complete revolution of the signal generator cam shaft, the reset bail returns to its starting position resetting all code bars and the clutch trip bar.



TO ADJUST LOOSEN MOUNTING SCREWS AND POSITION CODE BAR GUIDE.

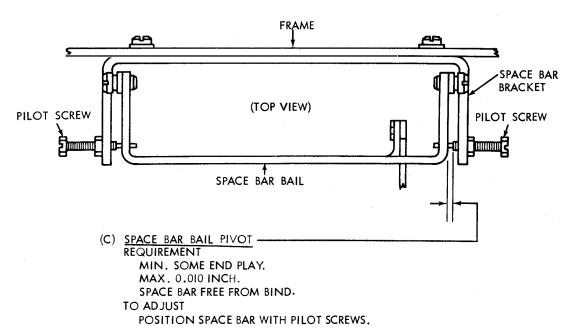
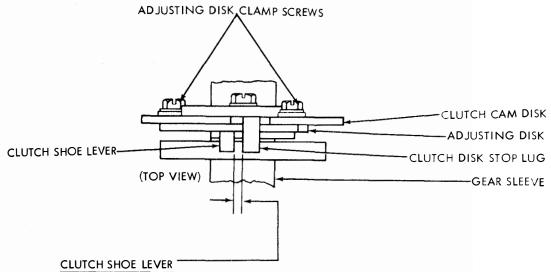


FIGURE 1-1 KEYBOARD, CODE BAR AND SPACE BAR MECHANISMS



REQUIREMENT

CLEARANCE WHEN CLUTCH IS DISENGAGED SHOULD BE 0.055 INCH TO 0.085 INCH LESS THAN WHEN CLUTCH IS ENGAGED.

TO CHECK

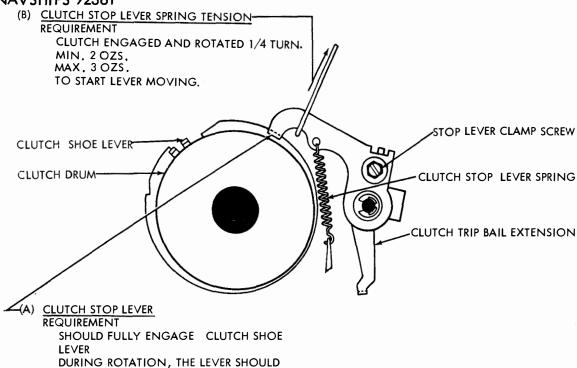
LATCH CLUTCH IN DISENGAGED POSITION AND MEASURE CLEARANCE. ROTATE GEAR UNTIL OIL HOLE IS UPWARD. ENGAGE CLUTCH AND MEASURE CLEARANCE.

TO ADJUST

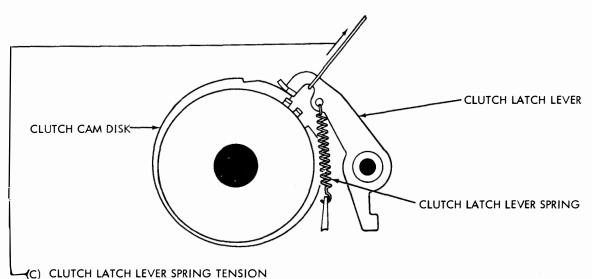
LOOSEN THE TWO ADJUSTING DISK CLAMP SCREWS TO PO-SITION DISK.

## T-5 to NAVSHIPS 91393 T-6 to NAVSHIPS 91713

### T-3 to NAVSHIPS 92361



NOT TOUCH THE CLUTCH DRUM AT ANY POINT.
TO ADJUST
POSITION STOP LEVER WITH ITS CLAMP SCREW LOOSENED.



REQUIREMENT

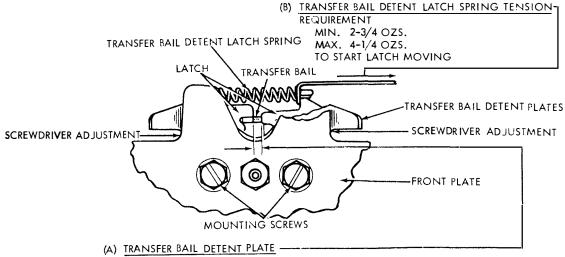
CLUTCH LATCH LEVER RESTING ON THE HIGHEST POINT OF CLUTCH DISK.

MIN. 2 OZS.

MAX. 3 OZS.

TO START LATCH LEVER MOVING.

FIGURE 1-3. KEYBOARD, SIGNAL GENERATOR CLUTCH AND LEVER MECHANISM



REQUIREMENT

EQUAL L. H. AND R. H. CLEARANCE WITHIN .002

TO ADJUST

ROTATE DETENT PLATE RIGHT OR LEFT BY MEANS OF SCREWDRIVER WITH MOUNTING SCREWS LOOSENED.

#### (C) SIGNAL CONTACT CLEARANCE

REQUIREMENT

MARKING AND SPACING GAPS SHOULD BE EQUAL WITHIN 0.001 INCH.

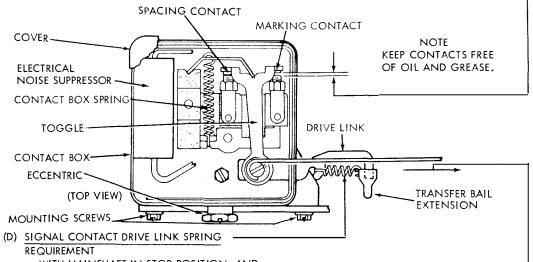
TO CHECK

DEPRESS "Y" KEYLEVER AND ROTATE SIGNAL GENERATOR CAM SLEEVE UNTIL EACH CONTACT HAS FULLY OPENED.

TO ADJUST

LOOSEN MOUNTING SCREWS AND MOVE CONTACT BOX BY MEANS OF ECCENTRIC. NOTE

CHECK BY MEANS OF SIGNAL CHECKING DEVICE WHERE POSSIBLE, AND CAREFULLY RE-FINE THE ADJUSTMENT TO ELIMINATE ALL BIAS FROM THE SIGNALS BY EQUALIZING THE CURRENT-ON AND CURRENT-OFF INTERVALS.



WITH MAINSHAFT IN STOP POSITION AND TRANSFER BAIL DETENT LATCH SPRING UN-HOOKED (SEE FIG. ABOVE), MOVE LATCHES AWAY FROM TRANSFER BAIL EXTENSION. HOLD THE TOGGLE FIRMLY AGAINST CON-TACTS.

MIN. 6 OZS.

MAX. 9 OZS.

TO START TRANSFER BAIL EXTENSION

MOVING.

FIGURE 1-4 KEYBOARD, TRANSFER BAIL AND CONTACT BOX MECHANISM

(E) SIGNAL CONTACT SPRING

REQUIREMENT

WITH MAIN SHAFT IN STOP POSITION AND COVER OF CONTACT BOX REMOVED, UN -HOOK THE DRIVE LINK SPRING AND HOLD TRANSFER BAIL CLEAR OF DRIVE LINK. MIN. 2 OZS.

MAX. 3 OZS.

TO START LINK MOVING

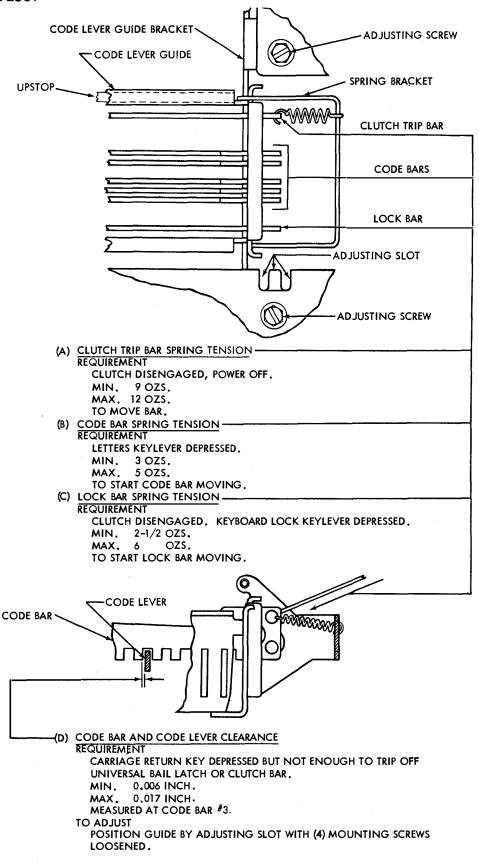
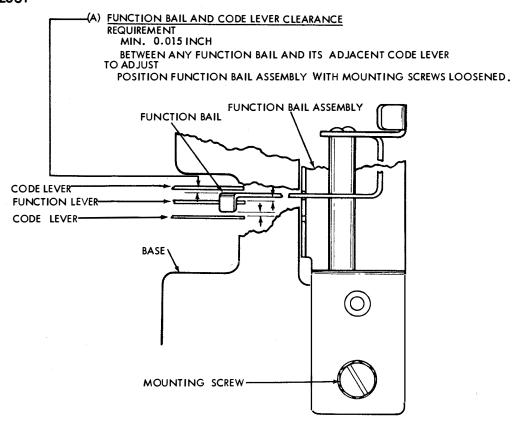
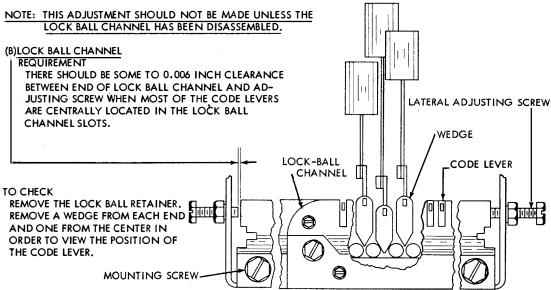


FIGURE 1-5 KEYBOARD, CODE BAR AND CODE LEVER MECHANISM

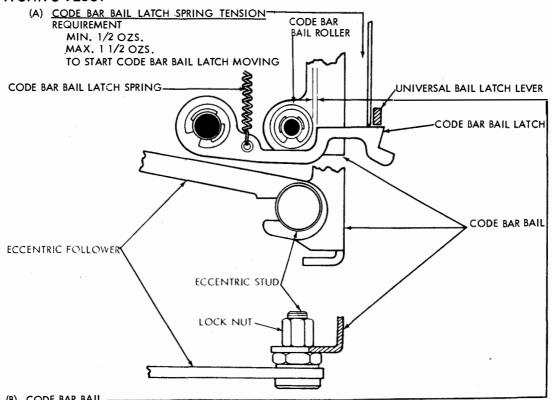




#### TO ADJUST

LOOSEN THE LOCK BALL CHANNEL MOUNTING SCREWS. BACK OFF LATERAL ADJUSTING SCREWS AND POSITION CHANNEL. TURN ONE ADJUSTING SCREW IN AGAINST THE END OF THE CHANNEL AND LOCK IT. TURN THE OTHER ADJUSTING SCREW IN TO THE END OF THE CHANNEL AND BACK IT OFF 1/4 TURN. LOCK THE SCREW. REPLACE THE WEDGES AND CHECK THEIR POSITION WITH RESPECT TO THE BALLS. PULL CHANNEL ASSEMBLY DOWNWARD UNTIL ALL CODE LEVERS STRIKE THEIR UPSTOP WITHOUT WEDGES JUMPING OUT OF POSITION. REPLACE LOCK-BALL RETAINER. BACK OFF BALL END PLAY ADJUSTING SCREW.

FIGURE 1-6 KEYBOARD, FUNCTION BAIL AND LOCK BALL TRACK MECHANISMS



(B) CODE BAR BAIL

REQUIREMENT

CAM ECCENTRIC AND ARM WHICH HOLD THE BAIL IN EXTREME RESET POSITION TO THE LEFT.

MIN. 0.004 INCH

MAX. 0.012 INCH

BETWEEN CODE BAR BAIL ROLLER AND CODE BAR BAIL LATCH

TO ADJUST

ADJUST ECCENTRIC STUD WITH LOCK NUT LOOSENED.

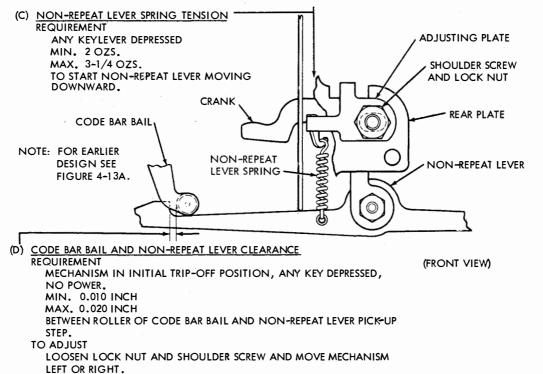
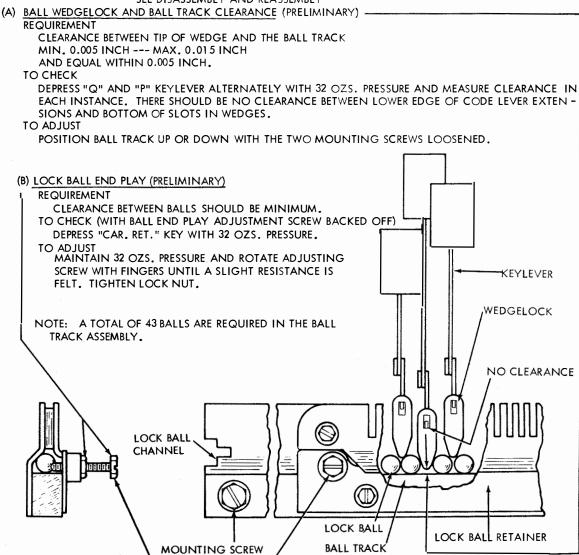


FIGURE 1-7. KEYBOARD, CODE BAR BAIL AND NON-REPEAT LEVER MECHANISMS.

NOTE: REMOVE KEYBOARD HOOD IN ORDER TO MAKE THIS ADJUSTMENT.
SEE DISASSEMBLY AND REASSEMBLY



(F) BALL-LOCK-WEDGE, BALL END-PLAY AND UNIVERSAL BAIL LATCH(FINAL) PERFORM THIS ADJUSTMENT FOLLOWING (E) ON PAGE 1-11
REQUIREMENT (UNDER POWER)

- TRIP-OFF PRESSURE OF ANY CENTER ROW KEY SHOULD BE MIN. 2 OZS. --- MAX. 5 OZS.
- 2. APPLY 5-1/2 OZS PRESSURE PERPENDICULAR TO "A" KEY, DEPRESS EACH KEY IN THIRD ROW. THE "A" KEY SHOULD TRIP EACH TIME A KEY IS RELEASED.
- 3. REPEAT 2 WITH THE 5-1/2 OZS. PRESSURE ON "CAR. RET." KEY.

ADJUSTMENT SCREW/

- 4. THE CLUTCH SHOULD NOT TRIP WHEN TWO KEYS ARE DEPRESSED SIMULTANEOUSLY.
- APPLY 4-1/4 OZS. TO "SPACE BAR," DEPRESS "CAR. RET." KEY AND LIFT FINGER FROM KEY HORI-ZONTALLY. THE "SPACE BAR" SHOULD TRIP EACH TIME "CAR. RET." IS RELEASED.
   NOTE --- IF UNIT IS EQUIPPED FOR REPEAT-SPACE OPERATION, DISREGARD MULTIPLE SPACE OPERATIONS.
- TO ADJUST

IF NECESSARY, REFINE BALL WEDGE LOCK AND BALL TRACK CLEARANCE (PRELIMINARY), LOCK BALL END PLAY (PRELIMINARY), UNIVERSAL BAIL LATCH LEVER (PRELIMINARY) AND UNIVERSAL BAIL EXTENSION.

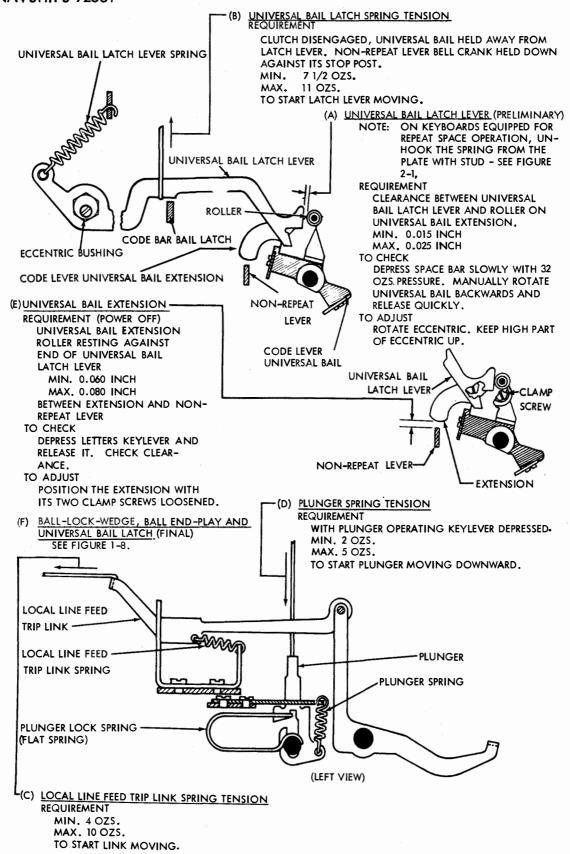
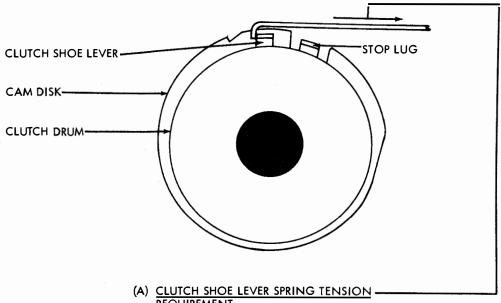


FIGURE 1-9. KEYBOARD, UNIVERSAL BAIL LATCH LEVER AND LOCAL LINE FEED TRIP LINK MECHANISMS



REQUIREMENT

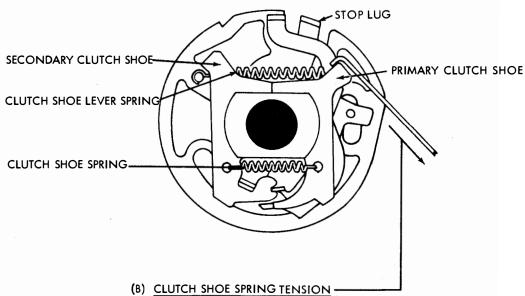
CLUTCH ENGAGED.

CAM DISK HELD TO PREVENT TURNING.

MIN. 15 OZS.

MAX. 20 OZS.

TO MOVE SHOE LEVER IN CONTACT WITH STOP LUG.



NOTE

IN ORDER TO CHECK THIS SPRING TENSION, IT IS NECESSARY TO REMOVE THE CLUTCH FROM THE MAIN SIGNAL GENERATOR DRIVE SHAFT. THEREFORE, IT SHOULD NOT BE CHECKED UNLESS THERE IS GOOD REASON TO BELIEVE THAT IT DOES NOT MEET ITS REQUIREMENT.

REQUIREMENT

CLUTCH DRUM REMOVED.

MIN. 3 OZS.

MAX. 5 OZS.

TO START PRIMARY SHOE MOVING AWAY FROM SECONDARY SHOE AT POINT OF CONTACT.

FIGURE 1-10. KEYBOARD, SIGNAL GENERATOR CLUTCH MECHANISM

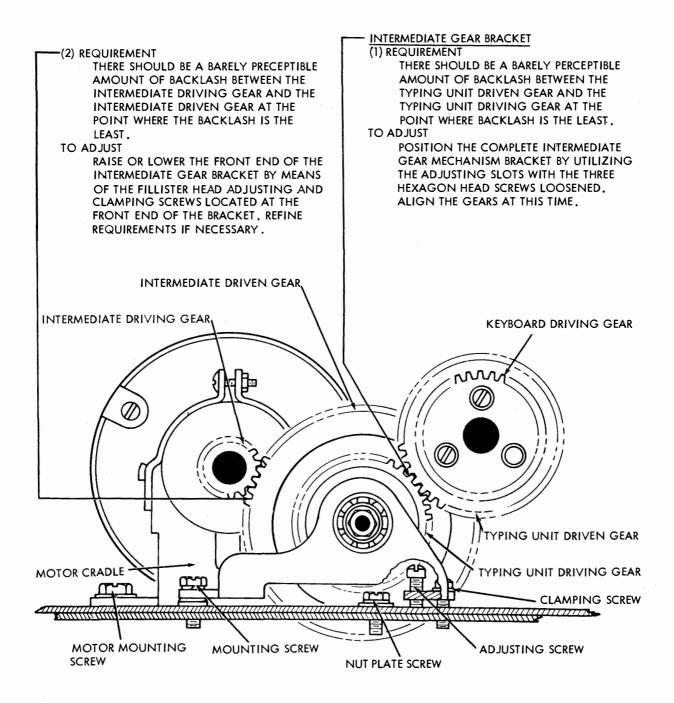
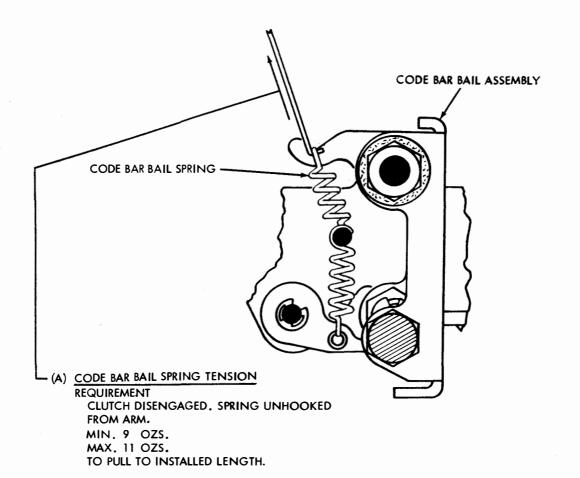


FIGURE 1-11 KEYBOARD OR BASE, MOTOR AND TYPING UNIT GEARING, LEFT SIDE VIEW



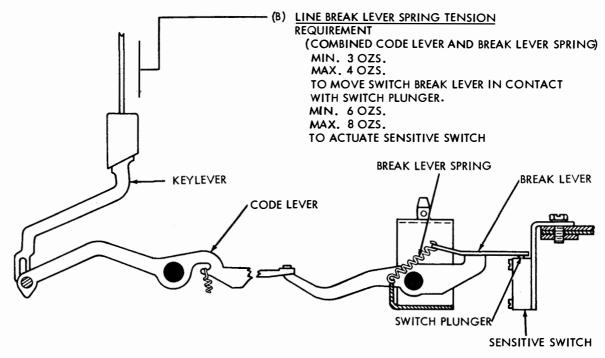
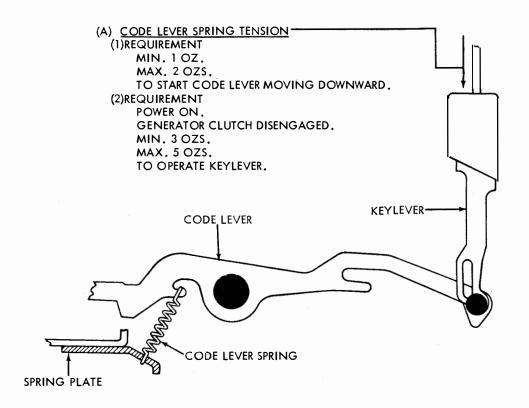


FIGURE 1-12. KEYBOARD, CODE BAR BAIL AND LINE BREAK LEVER



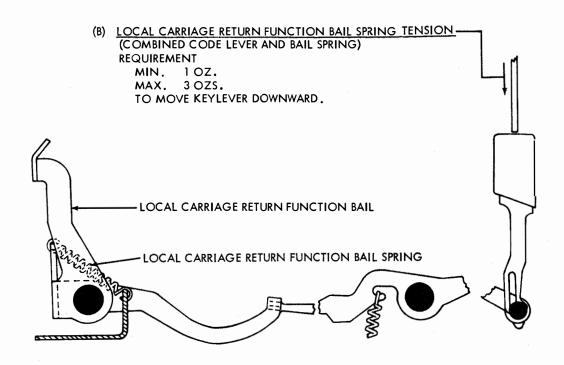
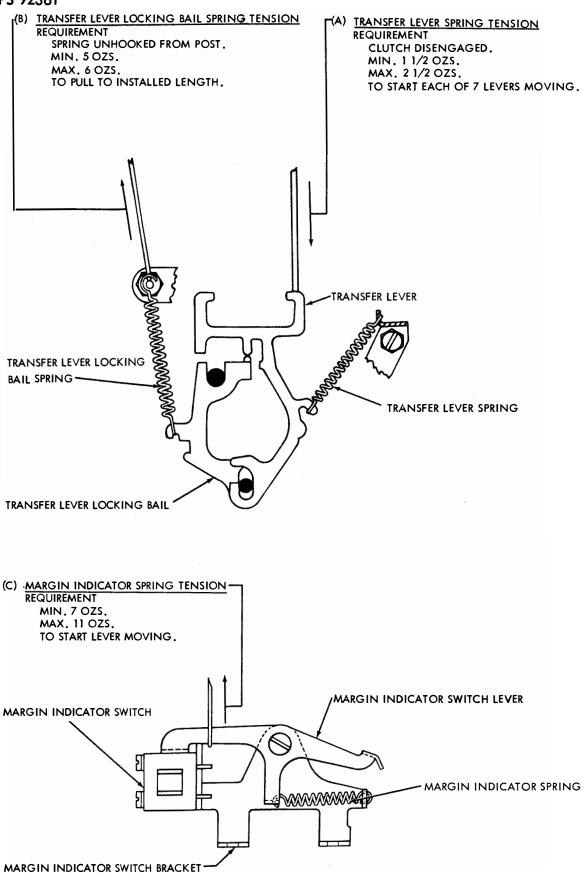
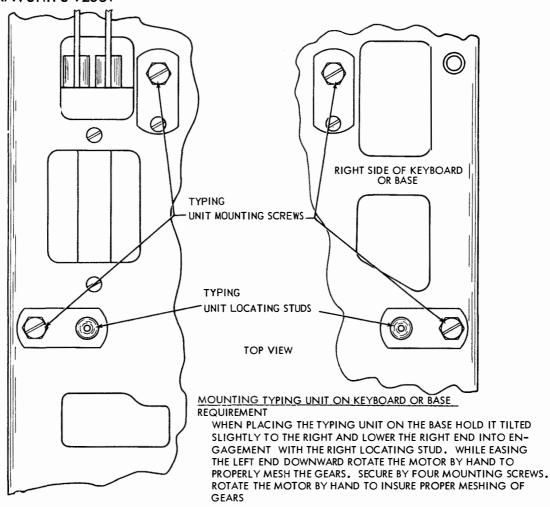


FIGURE 1-13. KEYBOARD, CODE LEVER AND LOCAL CARRIAGE RETURN FUNCTION BAIL MECHANISM



T-6 to NAVSHIPS 91713

T-3 to NAVSHIPS 92361



#### SIGNAL GENERATOR FRAME

REQUIREMENT

WITH TYPING UNIT MOUNTED IN POSITION, THERE SHOULD BE A PERCEPTIBLE AMOUNT OF BACK-LASH BETWEEN THE SIGNAL GENERATOR DRIVEN GEAR AND THE SIGNAL GENERATOR DRIVING GEAR AT THE POINT WHERE BACKLASH IS THE LEAST.

TO ADJUST

REMOVE THE SIGNAL GENERATOR FRAME REAR MOUNTING SCREW AND LOOSEN THE SHIM SCREW.

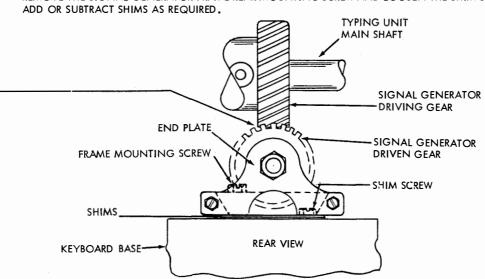
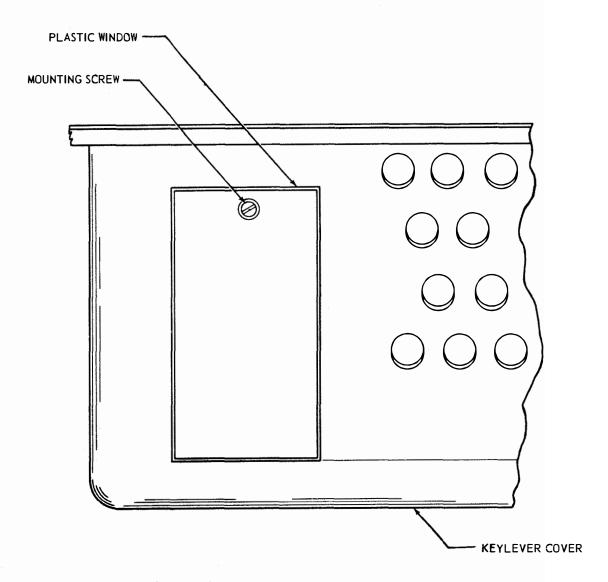


FIGURE 1-15. MOUNTING TYPING UNIT ON KEYBOARD OR BASE



#### PLASTIC WINDOW

REQUIREMENT

PLASTIC WINDOW SHOULD BE FULLY SEATED
IN POSITION BEFGRE TIGHTENING MOUNTING SCREW.

TO ADJUST

POSITION WINDOW WITH MOUNTING SCREW LOOSENED.

### TIME DELAY RATCHET WHEEL TENSION

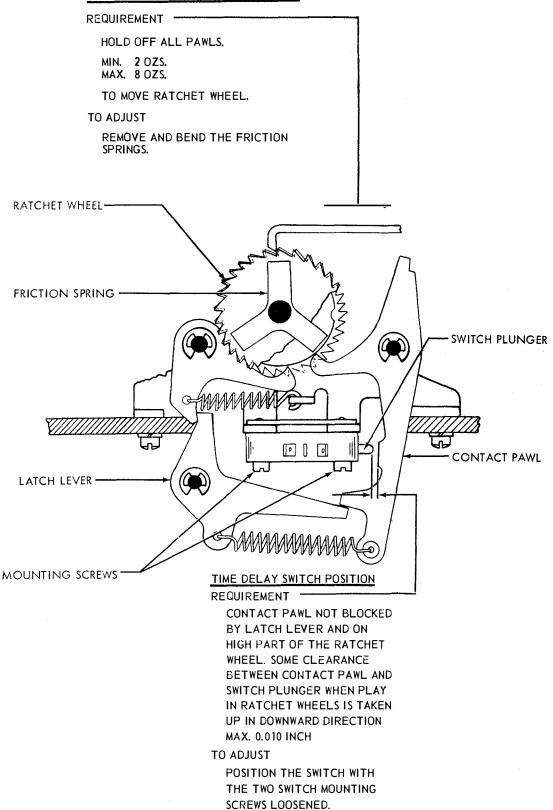


FIGURE 1-17. KEYBOARD OR BASE, TIME DELAY MECHANISM

### TIME DELAY MECHANISM

### CONTACT LATCH PAWL SPRING TENSION

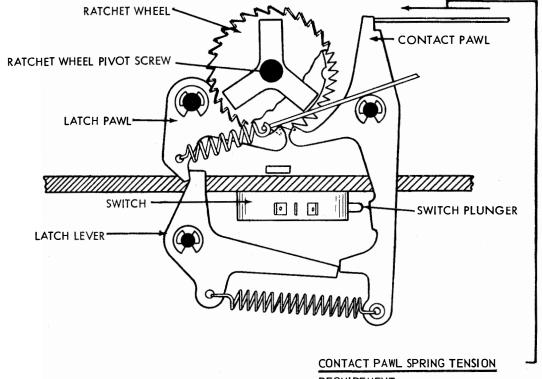
REQUIREMENT

LATCH PAWL SPRING UNHOOKED AT ANCHOR

MIN. 12 OZS.

MAX. 15 OZS.

TO STRETCH SPRING TO INSTALLED LENGTH AS SHOWN.



REQUIREMENT

CONTACT PAWL LATCHED ON END OF LATCH LEVER.

MIN. 8 OZS.

MAX. 12 OZS.

TO START THE PAWL MOVING.

FIGURE 1-18. KEYBOARD OR BASE, TIME DELAY MECHANISM, LEFT SIDE VIEW

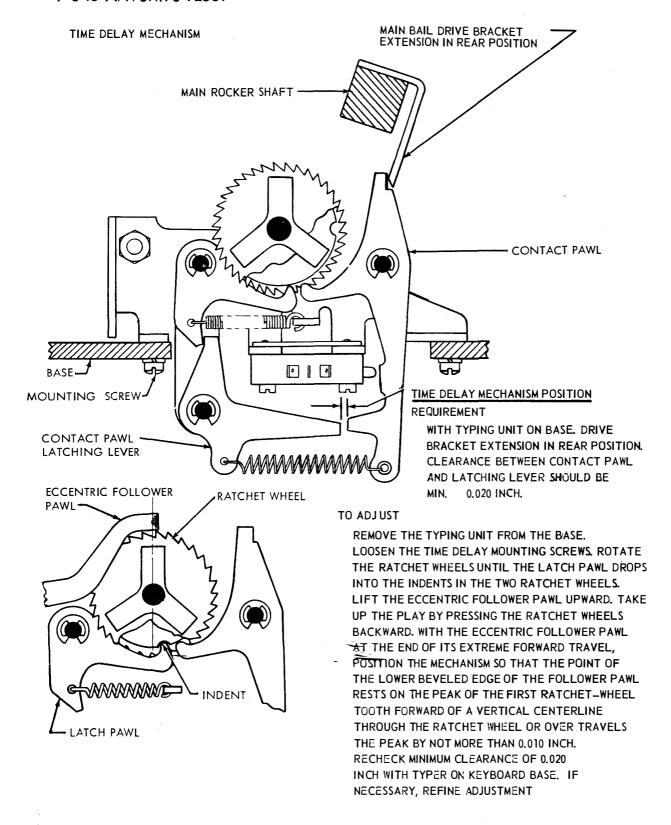
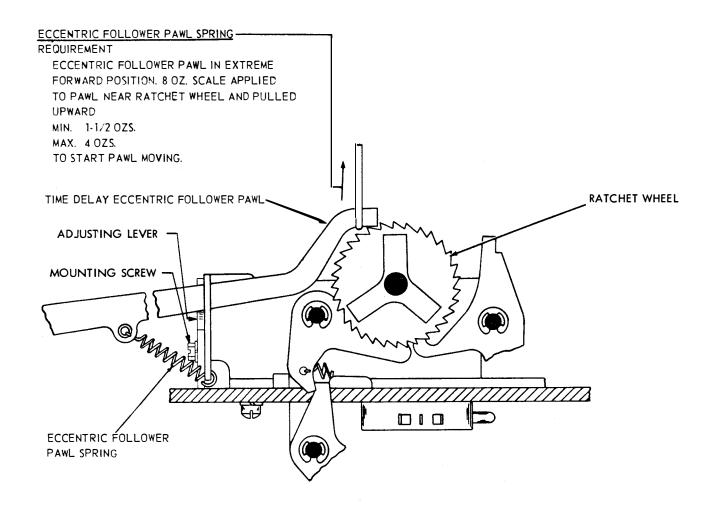


FIGURE 1-19. KEYBOARD OR BASE, TIME DELAY MECHANISM, LEFT SIDE VIEW

#### TIME DELAY MECHANISM



#### TIME DELAY DISABLING DEVICE

REQUIREMENT

DISABLE THE TIME DELAY MECHANISM WHEN NOT REQUIRED.

TO ADJUST

LOOSEN THE ADJUSTING LEVER MOUNTING SCREW AND PRESS DOWNWARD ON THE LEVER TO RAISE ECCENTRIC FOLLOWER OUT OF ENGAGEMENT WITH ITS RATCHET WHEEL.

NOTE: FOR ADJUSTMENT OF EARLIER DESIGN MECHANISMS SEE FIGURE 4-44

FIGURE 1-20. KEYBOARD OR BASE, TIME DELAY DISABLING DEVICE

LOCAL BACK SPACE MECHANISM

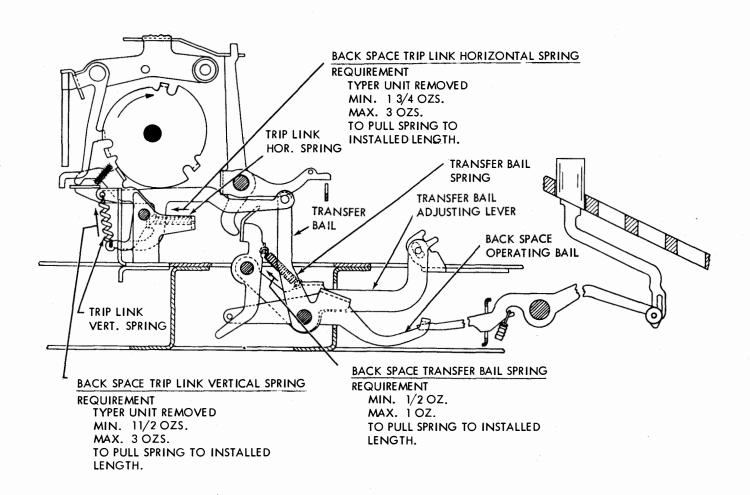
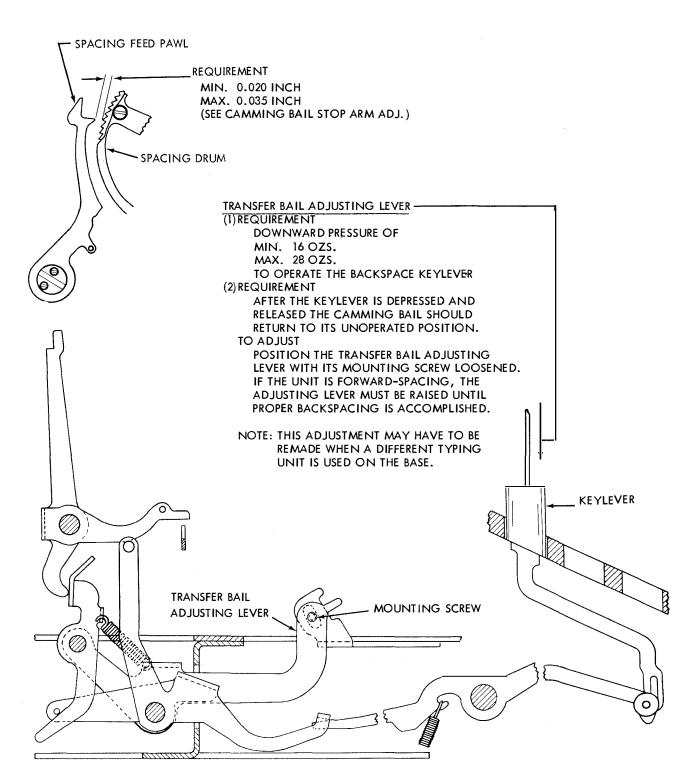


FIGURE 1-21. KEYBOARD, BACK SPACE MECHANISM

#### LOCAL BACK SPACE MECHANISM



NOTE: FOR EARLIER DESIGN SEE FIGURE 4-47.

FIGURE 1-22. KEYBOARD, BACK SPACE MECHANISM

#### LOCAL BACK SPACE MECHANISM

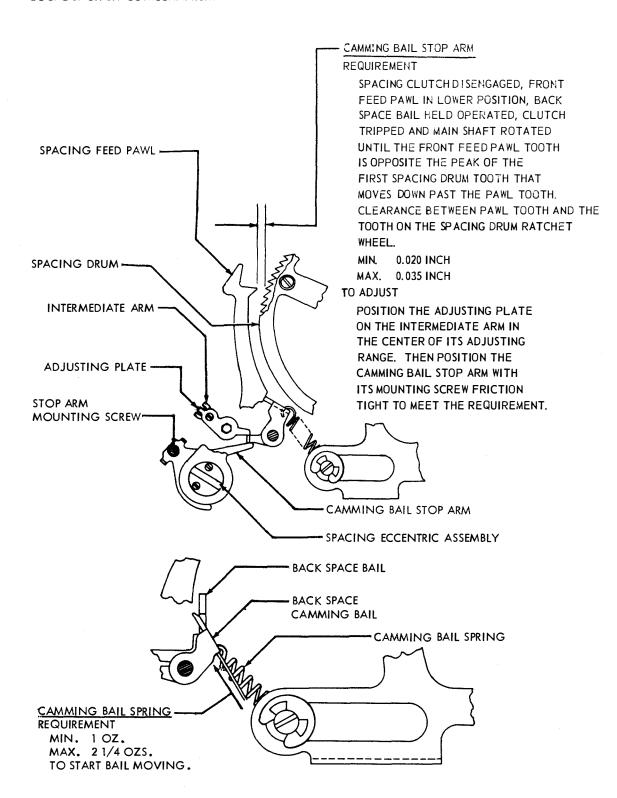


FIGURE 1-23. TYPING UNIT, BACK SPACE MECHANISM

#### REVERSE LINE FEED MECHANISM

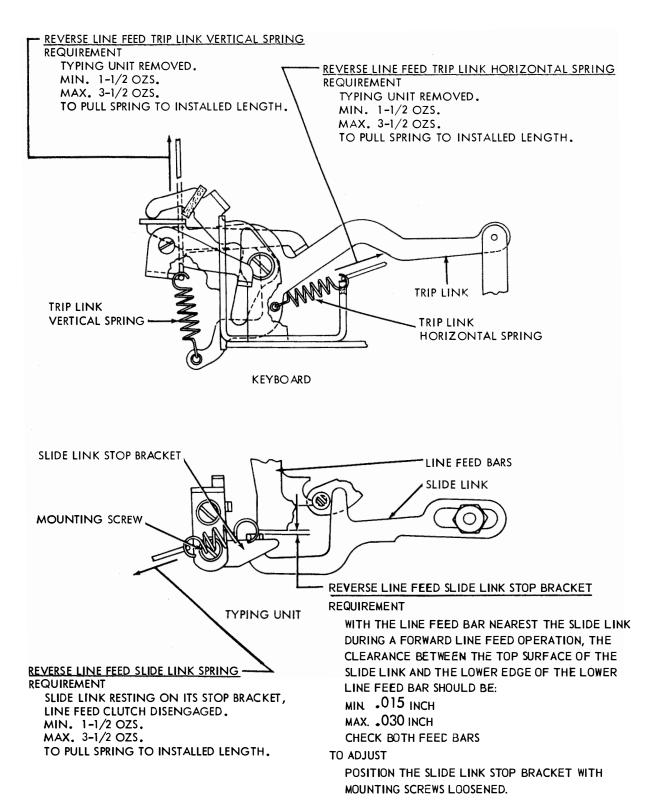


FIGURE 1-24. LOCAL REVERSE LINE FEED MECHANISM, LEFT VIEW

### MOUNTING BRACKET (A) -REAR LEFT MOUNTING SCREW TO CHECK WITH MAGNET NOT ATTRACTED AND CLUTCH PRY POINT TRIP BAR IN FURTHEST LEFT POSITION. REQUIREMENT MIN. 0.005 INCH --- MAX. 0.015 INCH BETWEEN CLUTCH TRIP BAR AND ARMATURE LEVER. TO ADJUST POSITION MOUNTING BRACKET WITH THREE MOUNTING SCREWS LOOSE BY MEANS OF PRY POINT. NOTE TIGHTEN REAR LEFT MOUNTING SCREW AND MAKE MOUNTING BRACKET ADJUSTMENT (B).

#### MAGNET ARMATURE

#### TO CHECK

CLUTCH TRIP BAR IN EXTREME LEFT POSITION. HOOK 32 OZ. SCALE TO ARMATURE LEVER AS SHOWN. MEASURE AT RIGHT ANGLE TO ARM-ATURE LEVER AS INDICATED.

#### REQUIREMENT

MIN. 3 OZS. --- MAX. 5 OZS. TO PULL ARMATURE LEVER FROM CLUTCH TRIP BAR.

#### REQUIREMENT WITH ARMATURE IN ATTRACTED POSITION ARM-ATURE FLUSH WITH POLE FACE AND MAGNET MOUNTING BRACKET (B) BRACKET EXTENSION. TO CHECK TO ADJUST WITH ARMATURE LEVER HELD AGAINST MAG-POSITION ARMATURE WITH HINGE BRACKET NET POLE FACE AND CLUTCH TRIP BAR IN MOUNTING SCREW AND SPRING POST LOOSE. FURTHEST RIGHT POSITION. REQUIREMENT MIN. 0.005 INCH --- MAX. 0.015 INCH MOUNTING SCREWS BETWEEN CLUTCH TRIP BAR AND ARMATURE LEVER. TO ADJUST PRY POINT WITH RIGHT REAR AND LEFT FRONT MOUNT-ING BRACKET SCREWS LOOSE POSITION MOUNTING BRACKET BY MEANS OF PRY POINT. CLUTCH TRIP BAR SPRING POST ARMATURE LEVER

ARMATURE HINGE

FIGURE 1-25. Keyboard, Synchronous Pulsed Magnet Mechanism

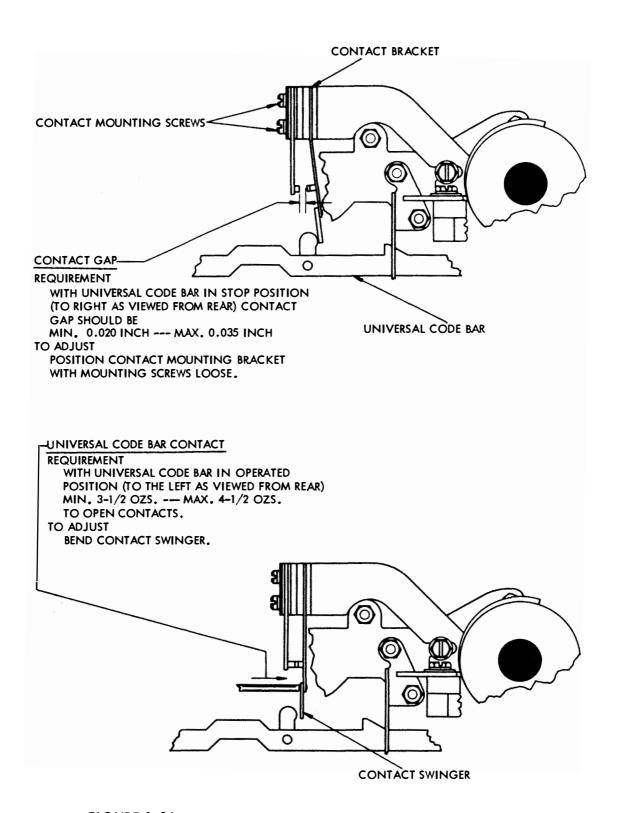
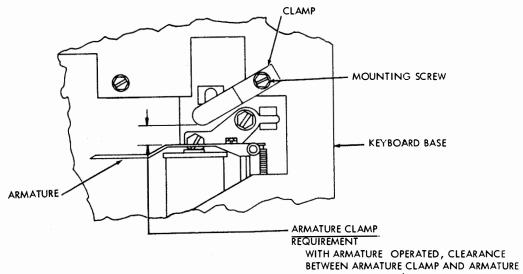


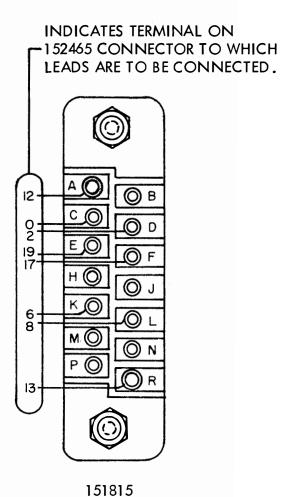
FIGURE 1-26. Keyboard, Conditioning Contact Mechanism



APPROX. 3/8 INCH
TO ADJUST

POSITION CLAMP WITH ITS MOUNTING SCREW LOOSENED.

FIGURE 1-27.



INDICATES TERMINALS ON
151815 CONNECTOR FROM WHICH
LEADS ARE TO BE REMOVED.

3 🛮 4[] 5 [] 6 **[]** 7[] 8 🛮 9 🛮 10 []  $\Pi$ 0 12 13 A · 14 15[] 16[] 17 19 [] 152465

FIGURE 1. WIRING CHANGES FOR POWER DISTRIBUTION PANEL SB-154/UG

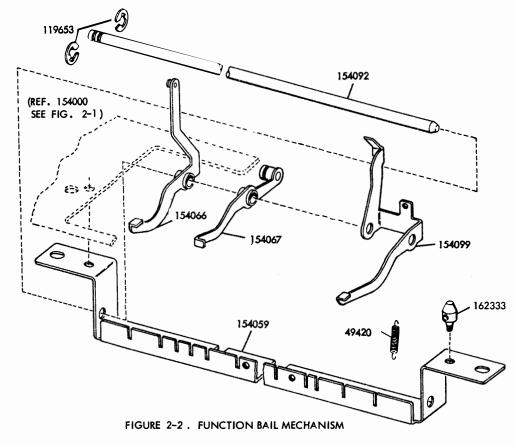
FIGURE 2-1.

KEYBOARD BASE MECHANISM

ਰੋ ਰੋ

NAVSHI PS NAVSHI PS

91713 92361



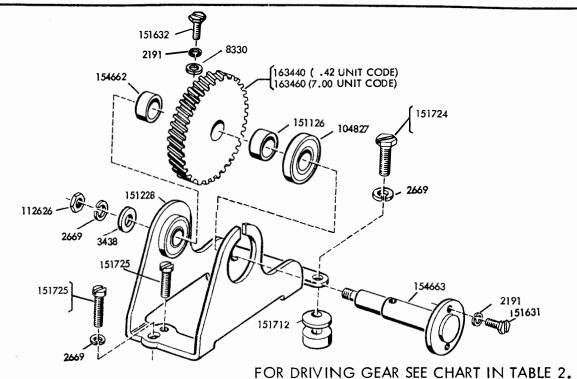


FIGURE 2-3 INTERMEDIATE GEAR MECHANISM

T-5 to NAVSHIPS 91393 T-6 to NAVSHIPS 91713 T-3 to NAVSHIPS 92361

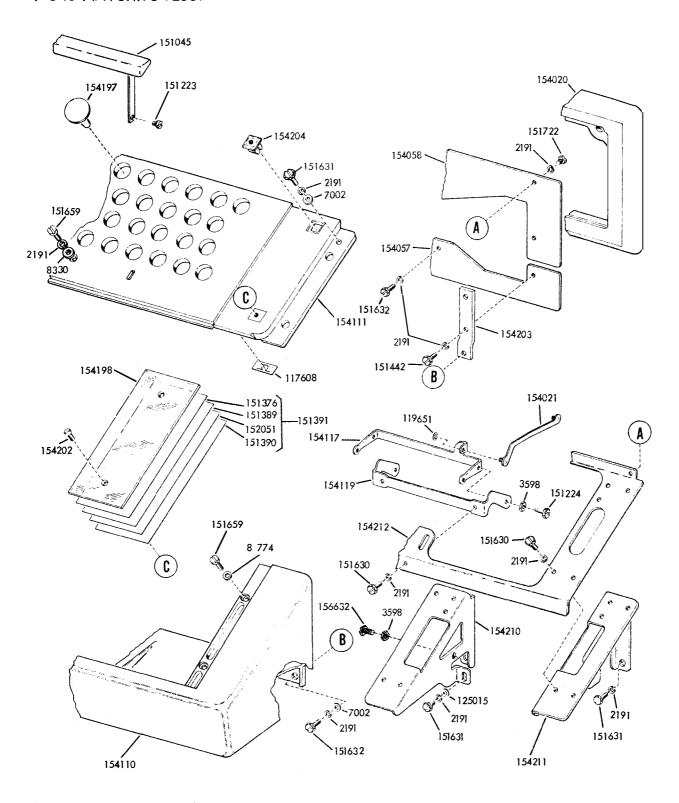


FIGURE 2-4. KEYBOARD MECHANISM

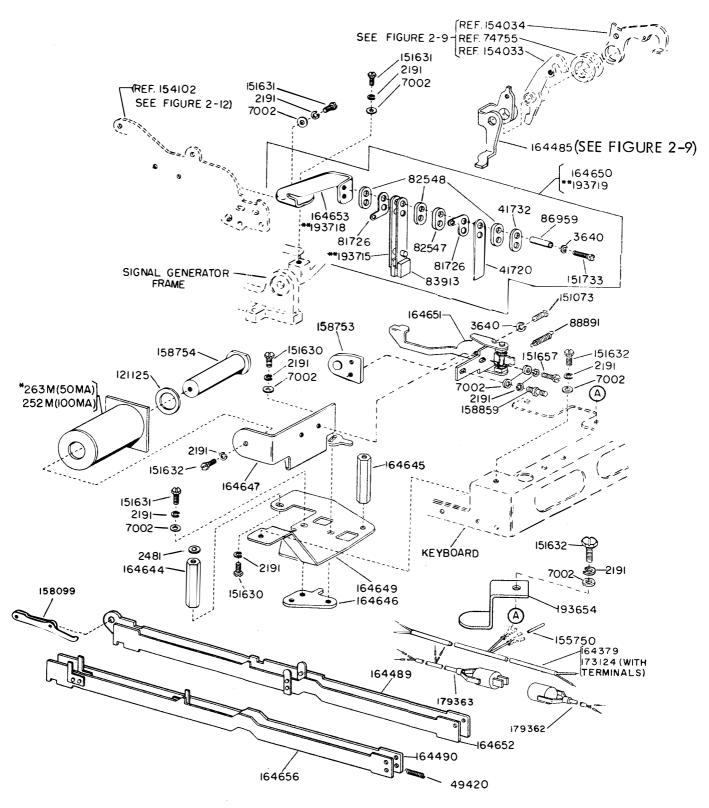
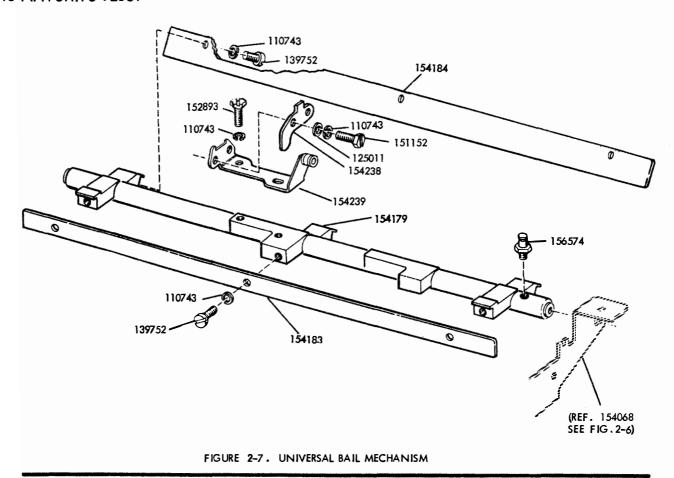


FIGURE 2-5.

FIGURE 2-6.

CODE BAR MECHANISM

1-5/1-6/1-3



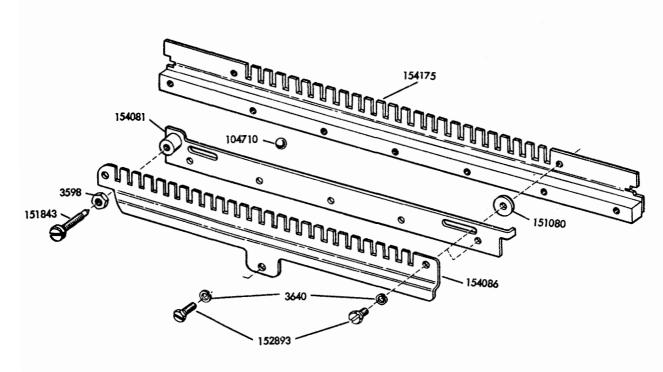
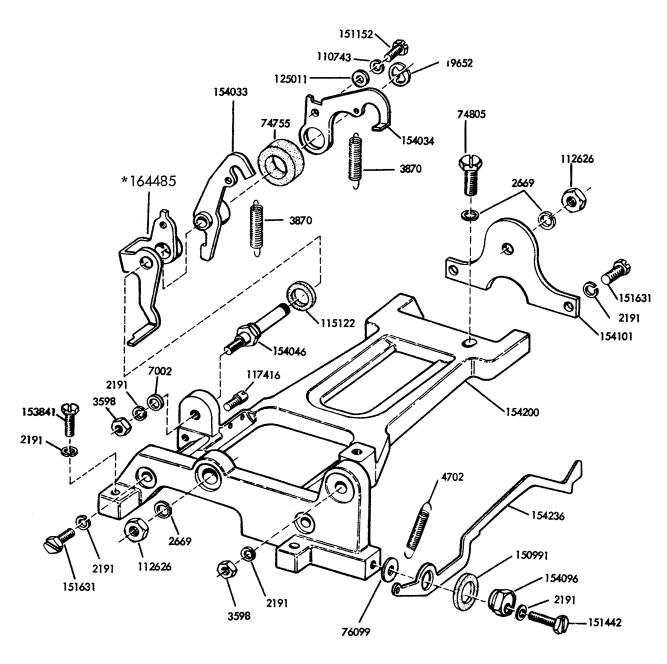


FIGURE 2-8.BALL LOCK MECHANISM



\*SEE FIGURE 2-5

FIGURE 2-9. SIGNAL GENERATOR FRAME MECHANISM

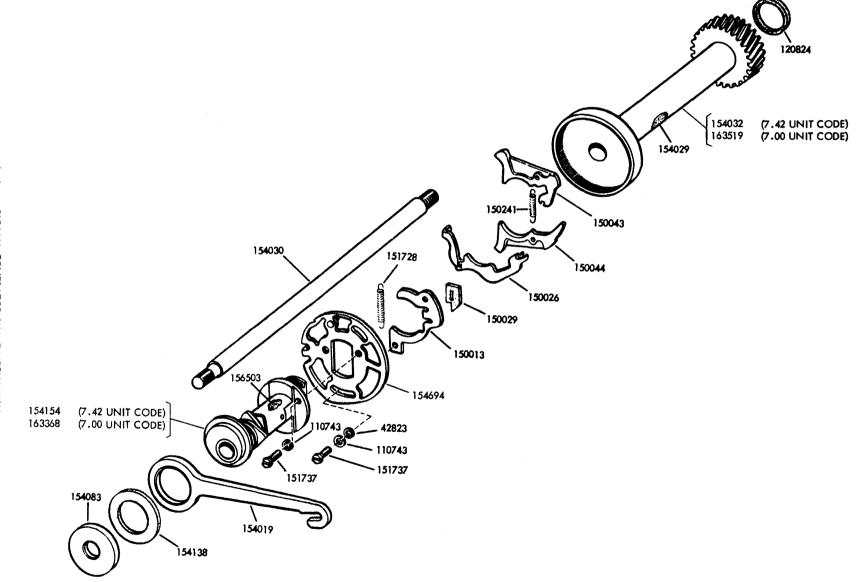
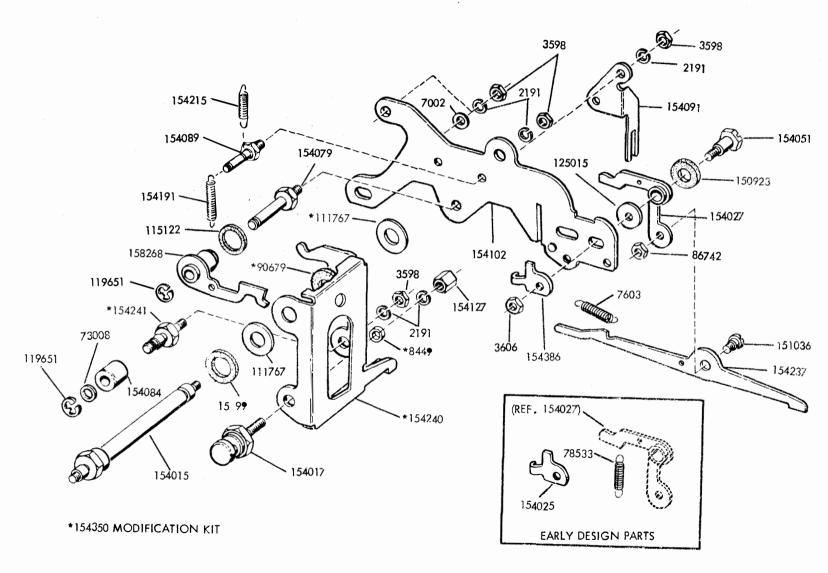


FIGURE 2-11. SIGNAL GENERATOR FRONT PLATE MECHANISM.



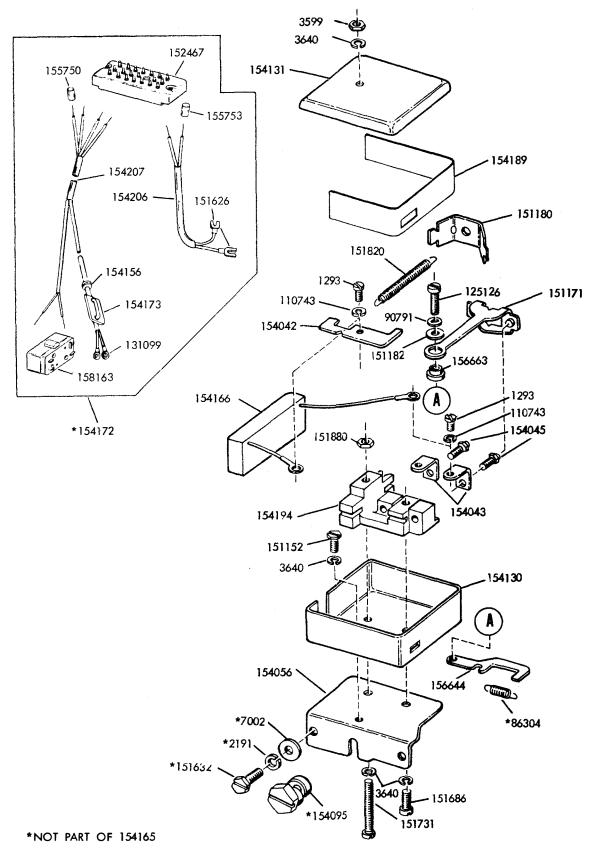


FIGURE 2-13. 154165 CONTACT BOX ASSEMBLY WITH ARC SUPPRESSION - NEUTRAL TRANSMISSION

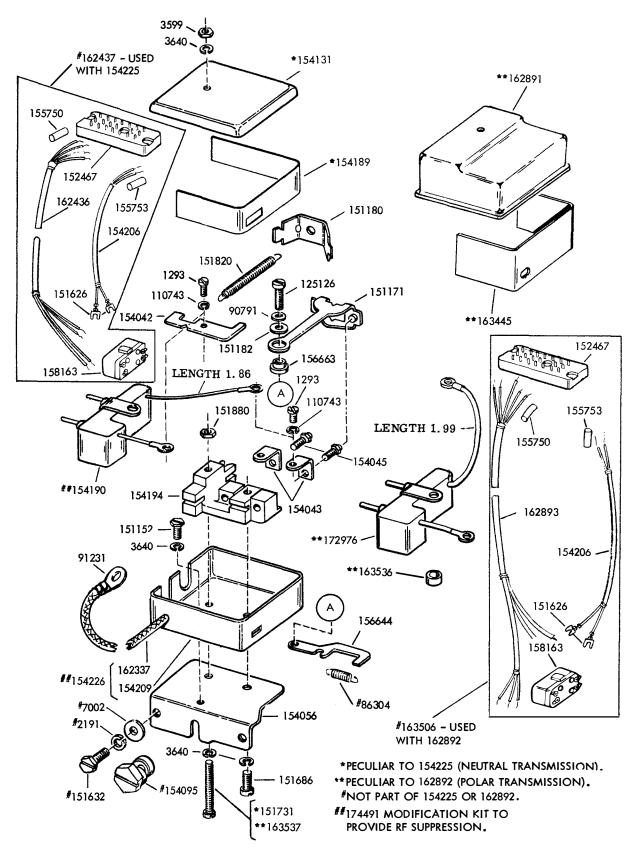
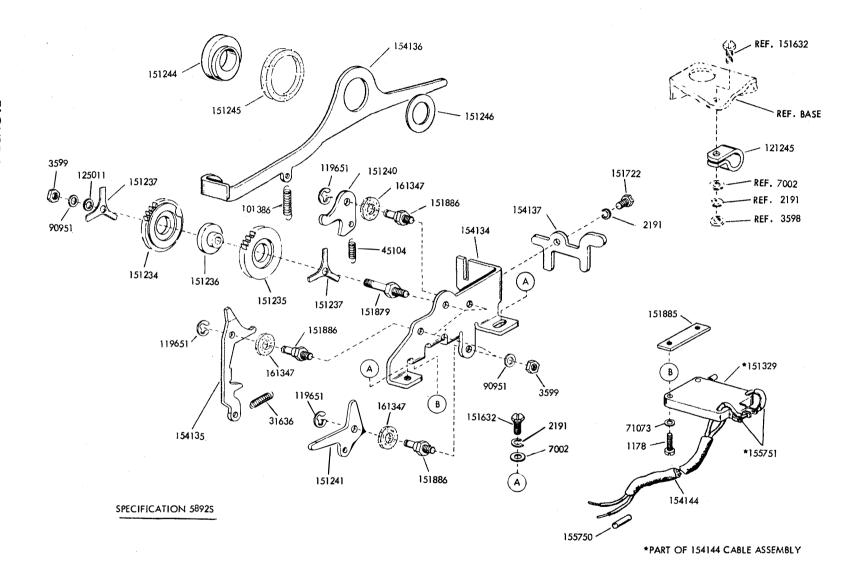


FIGURE 2-14. 154225 AND 162892 CONTACT BOX ASSEMBLIES WITH RF SUPPRESSION - NEUTRAL AND POLAR TRANSMISSION



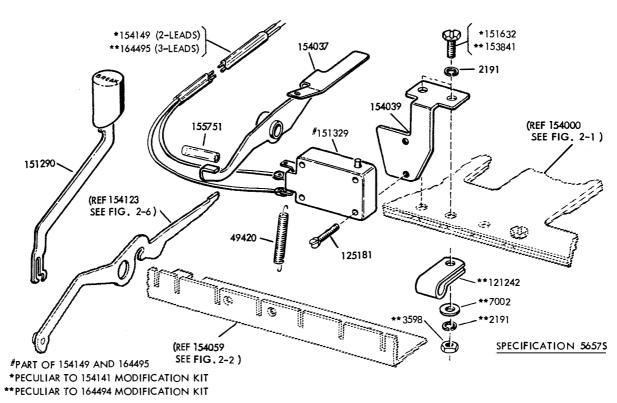
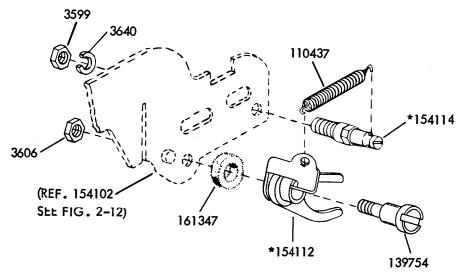


FIGURE 2-16. 154141 AND 164494 MODIFICATION KIT TO PROVIDE ELECTRICAL SIGNAL LINE BREAK MECHANISM

T-5 to NAVSHIPS 91393 T-6 to NAVSHIPS 91713 T-3 to NAVSHIPS 92361



\*NOT AVAILABLE (ORDER 163775).

FIGURE 2-17. OLD STYLE REPEAT ON SPACE MECHANISM

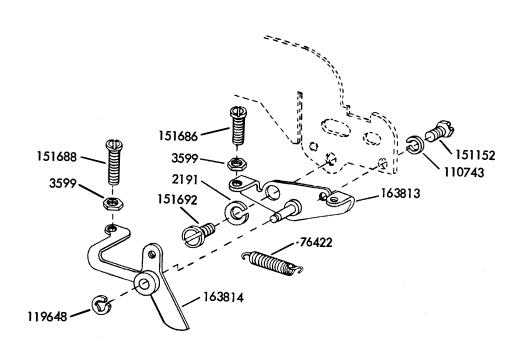
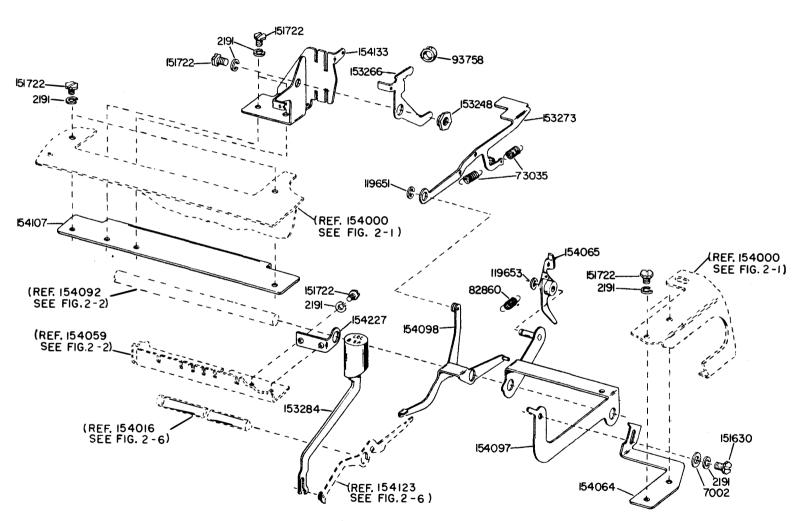
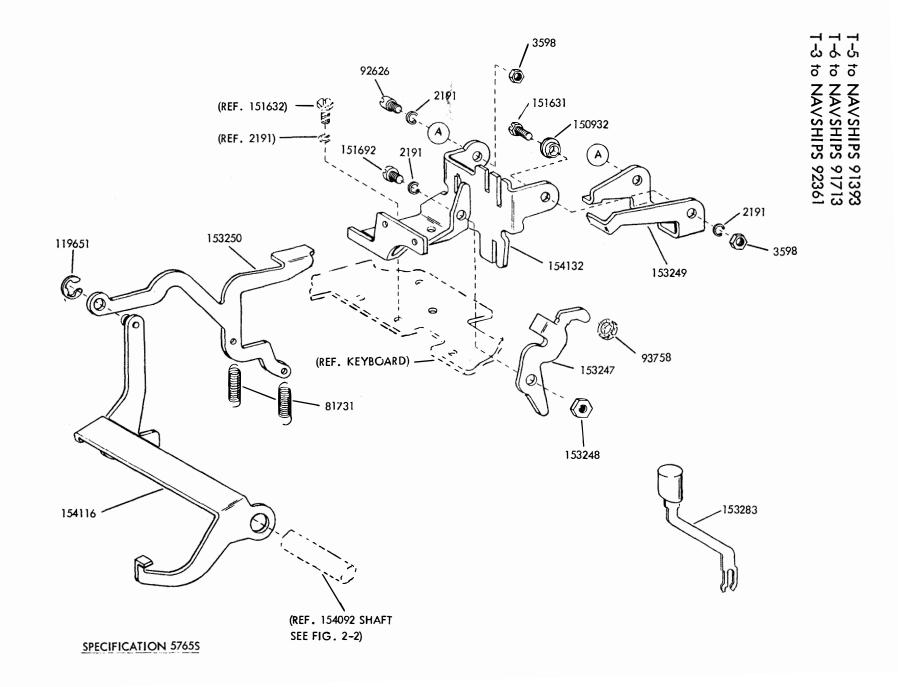


FIGURE 2-18. 163775 MODIFICATION KIT TO PROVIDE REPEAT ON SPACE MECHANISM



SPECIFICATION 5766S



## NUMERICAL INDEX - SECTION 2 (Page Numbers Do Not Apply)

			,		
Part	Description and	Part	Description and	Part	Description and
Number	Page Number	Number	Page Number	Number	Page Number
					•
19 <b>4M</b>	Coil, Magnet 2-24	76099	Washer, Flat 2–8, 2–21	119648	Ring, Retaining (Sev.)
224M	Coil, Magnet 2-26	76379	Spring 2-2A	119649	Ring, Retaining (Sev.)
252M	Coil, Magnet 2-20	76422	Spring 2-16,2-25	119650	Ring, Retaining (Sev.)
263M	Coil, Magnet 2-20	78533	Spring 2-11	119651	Ring, Retaining (Sev.)
1020	Screw (6-40 x 1/4 Hex) 2-10	80945	Spring 2-26	119652	Ring, Retaining (Sev.)
1161	Screw (6-40 x 1/4 Fil) 2-14	81596	Screw (10-32 x 1/2 Hex) 2-26	119653	Ring, Retaining (Sev.)
1178	Screw (2-56 x 7/16 Fil) 2-22	81726	Terminal 2-20	119654	Ring, Retaining 2-6
1193	Screw (10-32 x 7/8 Fil) 2-21	81731	Spring 2-18	120175	Plate, Instruction (On-Off) 2-5
1196	Screw (6-40 x 9/32 Fil 2-14	81774	Washer, Flat 2–4	120824	Washer, Felt 2–9
1210	Screw (2-56 x 5/8 Fil) 2-2	82547	Insulator 2-2A, 2-20	120870	Wick, Felt 2-10
1257	Screw (10-32 x 1-1/8 Fil) 2-21	82548	Insulator 2-2A, 2-20	121125	Washer, Spring 2-20
1293	Screw (4-40 x 1/8 Fil) 2-12,2-13,	82860	Spring 2-17	121242	Clamp, Cable (1/8 ID) 2-2,2-15
	2-23	83913	Spring, Contact 2–20	121243	Clamp, Cable (3/16 ID) 2-5
2191	Washer, Lock (Sev.)	86304	Spring 2-12,2-13	121244	Clamp, Cable (1/4 ID) 2-5
2382	Washer, Lock 2–14	86742	Nut (4-40 Hex) 2-11	121245	Clamp, Cable (5/16 ID) 2-2,2-22
2415	Spring 2-6	86959	Bushing 2-20	121473	Post 2-19, 2-25
2449	Washer, Lock 2-21	87398	Spring 2-24	121575	Screw (10-32 x 5/16 Hex) 2-21
2481	Washer, Flat 2–20	88891	Spring, Armature 2–20	124177	Washer, Lock 2–21
2669	Washer, Lock (Sev.)	90573	Spring 2-24	124244	Washer, Felt 2–2A
3339	Nut (9/16-32 Hex) 2-14	90679	Washer, Felt 2–11	125011	Washer, Flat (Sev.)
3340	Washer, Lock 2-14	90791	Washer, Lock 2-12,2-13,2-23	125015	Washer, Flat (Sev.)
3438	Washer, Flat 2-2,2-2A,2-3,2-25,	90951	Washer, Lock 2–22	125112	Screw (2-55 x 1/8 Fil) 2-2A
0500	2-26	91231	Terminal 2-13	125126	Screw (2-56 x 9/32 Fil) 2-12,2-13,
3598	Nut (6-40 Hex) (Sev.)	<b>9226</b> 5	Screw (2-56 x 1/8 Rd) 2-21		2-23
3599	Nut (4-40 Hex) (Sev.)	92626	Stud 2-18	125181	Screw (2-56 x 3/8 Fil) 2-15
3 <b>60</b> 6	Nut (6-40 Hex) 2-11,2-16,2-21	93107	Bearing, Ball 2-21	125231	Nut (10-32 Hex) 2-14,2-21
3624	Washer, Flat 2-24	93117	Washer, Lock 2–24	130499	Bearing, Ball 2-21
3640	Washer, Lock 2-2,2-2A,2-7,2-12,	93118	Washer, Lock 2–2	130683	Washer, Lock 2–19
	2-13,2-16,2-20,2-23,2-24,2-25,	93356	Washer, Felt 2-21	131099	Terminal 2-12
2070	2-26 \$: 2-2-2-4-2-8	93507	Screw (4-40 x 3/4 Hex) 2-2A	139752	Screw (4-40 x 11/64 Fil) 2-7
3870 4702	Spring 2-2,2-6,2-8	93634	Wick, Felt 2-14	139754	Screw, Shoulder (6-40) 2-16
6807	Spring 2-8 Screw, Set (6-40) 2-14	93638	Bracket 2-14	142379	Pin, Roll 2-26
6970	Nut (3/8-32 Hex) 2-26	•3639	Latch w/Post 2-14	1 44871 1 45307	Shaft 2-2A
7002	Washer, Flat (Sev.)	93644 93645	Shaft w/Hub 2-14	145355	Plate, Nut 2-2A
8330	Washer, Flat 2-3,2-4,2-14,2-26	93647	Flange w/Pin 2-14	145368	Gear (201) 2-26 Gear (271) 2-24
8449	Collar 2-11,2-21	93648	Hub 2-14	145392	Gear (27T) 2-2A Post 2-26
31636	Spring 2-21	93649	Flange 2-14 Knob 2-14	145393	Bushing 2-26
33038	Spring 2-14	93705	Cylinder (8-1/2") 2-14	146313	Wheel 2-14
34432	Washer, Flat 2-21	93758	Washer, Felt 2-17,2-18	145314	Belt 2-14
41720	Spring, Contact 2-20	93984	Washer, Lock 2-24	150013	Disk, Adjusting 2-9
41732	Plate, Clamp 2-20	94072	Bushing 2-3	150026	Lever, Shoe 2-9
42661	Spring 2-24	96646	Screw (6-40 x 1-3/64 Fil) 2-15	150029	Wick, Felt 2-9
42823	Washer, Flat 2–9	97296	Screw (10-32 x 5/16 Rd) 2-21	150043	Shoe, Clutch 2-9
45104	Spring 2-22	98712	Screw (4-40 x 1/4 Flat) 2-14	150044	Shoe, Clutch 2-9
<b>45</b> 815	Washer, Lock 2–14	101386	Spring 2-22	150089	Screw (4-40 x 1/2 Fil) 2-21,2-25
49420	Spring 2-3,2-6,2-15,2-20	102057	Screw, Shoulder (4-40) 2-2	150241	Spring 2-9
49653	Screw (10-32 x 13/16 Fil ) 2-3	104710	Bearing, Ball 2-7	150411	Washer, Flat 2–24
55090	Spring 2-14	104827	Bearing, Ball 2-3	150536	Spring 2-26
55669	Spring 2-2	104991	Screw (2-56 x 1/2 Fil) 2-24	150923	Washer, Felt 2-2A,2-10,2-11
70388	Spring 2-10	108102	Screw (4-40 × 1/4 Flat) 2-5	150932	Bushing, Shoulder 2-18
71073	Washer, Flat 2-22	108103	Washer, Flat 2–21	150966	Insulator 2–2
71659	Screw, Shoulder (6-40) 2-21	108370	Washer, Felt 2–10	150990	Washer, Felt 2–11
73008	Washer, Flat 2-11	110437	Spring 2-6	150991	Washer, Felt 2-6, 2-8
73035	Spring 2-17	110743	Washer, Lock (Sev.)	151036	Screw, Shoulder (4-40) 2-11
73705	Block, Terminal 2-14	111017	Screw (6-40 × 5/16 Fil) 2-2,2-2A	151045	Bar, Space 2-4
74554	Post, Spring 2-14	111343	Clamp 2-7	151059	Stud 2-15
74694	Arm 2-14	111516	Washer, Flat 2-14	151073	Screw (4-40 x 5/32 Fil) 2-20
74695	Sleeve, Clutch 2-14	111767	Washer, Flat 2-11	151080	Washer, Spacing 2–7
74755 74805	Washer, Felt 2-8	112127	Retainer 2-2A	151113	Strip 2-2
/ 4000	Screw (10-32 x 3/4 Hex) 2-3,2-8, 2-26	112128	Plate, Retainer 2–2A	151118	Plate, Spacing 2-2
74907		112626	Nut (10-32 Hex) 2-3,2-8	151126	Spacer 2-3
74807 74962	Nut (10-32 Hex) 2-21 Spring 2-15	112630	Spring 2-2	151146	Strap, Mounting 2-2
7 <del>49</del> 62 7 <b>5</b> 607	Washer, Flat 2–21	114125	Screw (6-40 x 3/8 Hex) 2-21	151152	Screw $(4-40 \times 3/16 \text{ H}_{2}\times) 2-7, 2-8,$
76081	Washer, Flat 2-6	115122	Washer, Felt 2–8,2–11		2-12,2-13,2-16,2-23,2-24,2-25
76084	Washer, Felt 2–14	116959	Screw, Eccentric 2-21	151171	Toggle 2-12,2-13,2-23
76085	Disk, Friction 2-14	117416 117535	Stud 2–8 Washer Flat 2–14	151180	Link 2-12,2-13,2-17
76086	Spring 2-14	117535	Washer, Flat 2–14	151182	Washer, Insulating 2-12,2-13,2-23
76087	Nut, Friction 2-14	117608 119535	Nut, Speed 2-4 Bushing 2-14	151223	Screw, Shoulder (4-40) 2-4
. 555,	, , , , , , , , , , , , , , , , , ,	117333	Bushing 2-14	151224	Screw, Pilot (6-40) 2-2A,2-4

## NUMERICAL INDEX - SECTION 2 (Continued) (Page Numbers Do Not Apply)

		NOMERI	CAL HADEX - SECTION 2 (Commodu)	luge	tombers bo 1401 App
Part	Description and	Part	Description and	Part	Description and
Number	Page Number	Number	Page Number	Number	Page Number
	, - <b>3</b> - ,				
151000	D. 1 . 2 2	150440	1-4-1 2.2	154066	Lever 2-3
151228	Bracket 2-3	152463	Latch 2-2	154067	Lever 2-3
151234	Ratchet 2-22	152464 152467	Insulator 2-2	154068	Bracket, Right 2–6
151235	Ratchet 2-22	132407	Connector, Plug (20 Pt) 2-2,2-12, 2-13,2-23	154069	Bracket, Left 2-6
151236	Hub 2-22	152754	Jumper 2-2A	154070	Guide 2-6
151237	Spring 2–22 Pawl, Latch 2–22	152893	Screw (4-40 x 1/4 Hex) 2-7	154071	Screw, Pilot (1/4-32) 2-6
151240	Lever, Latch 2-22	153247	Lever 2-18	154072	Bracket 2-6
151241 151244	Bushing, Eccentric 2-22	153248	Bushing, Shoulder 2-17,2-18	154076	Plate 2-2
151245	Washer, Felt 2-22	153249	Bail, Transfer 2-18	154079	Stud 2-11
151246	Shim (.020") 2-22	153250	Link 2-18	154080	Lock, Wedge 2-6
151290	Keylever Assembly 2-15	153252	Link 2-2	154081	Retainer, Ball 2-7
151329	Switch 2-15,2-22	153266	Lever 2-17	154083	Spacer 2–9
151335	Stud 2-2,2-2A	153273	Link 2-17	154084	Bearing, Needle 2~11
151346	Screw (6-40 x 3/8 Fil) 2-21	153283	Keylever Assembly 2-18	154085	Plate 2–2
151352	Spring 2-2	153284	Keylever Assembly 2-17	154086	Retainer, Wedge 2-6, 2-7
151376	Label 2-4	153442	Screw (10-32 x 1/2 Hex) 2-14	154087	Plate 2-2
151389	Paper, Carbon 2-4	153537	Screw (6-40 x 9/32 Hex) 2-14,2-24	154088	Plate 2-2
151390	Label 2-4	153538	Screw (6-40 x 7/16 Hex) 2-14	154089	Post 2-11
151391	Label Set 2-4	153817	Screw (4-40 × 3/8 Hex) 2-2	154091	Guide 2-11
151397	Spring 2-24	153839	Screw (6-40 x 5/8 Hex) 2-26	154092	Shaft 2-3
151412	Insulator 2-2A	153841	Screw (6-40 x 9/16 Hex) 2-8,2-15	154095	Eccentric 2-12,2-13
151415	Block, Terminal 2-2	154000	Base 2-2	154096	Bushing 2-8
151416	Nut (6-40 Hex) 2-2,2-2A	154001	Bar, Code (#1) 2-6	154097 154098	Lever 2-17
1,51442	Screw (6-40 x 1/2 Hex) 2-4,2-8,2-14,	154002	Bar, Code (#2) 2-6	154099	Bail 2-17
151/10	2-26	154003	Bar, Code (#3) 2-6	154101	Bail 2-3 Plate 2-8
151610	Washer, Flat 2-26	154004	Bar, Code (#4) 2-6	154102	Plate 2-11
151618	Screw (6-40 x 7/16 Fil) 2-21	154005 154008	Bar, Code (#5) 2-6	154105	Post 2-10
151626	Terminal 2-2,2-5,2-15 Nut (6-40 Lug) 2-26	154009	Guide 2–6 Plate 2–10	154106	Bracket 2-2
151629	Screw (6-40 x 1/4 Hex) (Sev.)	154010	Bail 2-10	154107	Bracket 2-17
151630	Screw (6-40 x 5/16 Hex) (Sev.)	154011	Guide 2-10	154109	Plunger 2-2
151631	Screw (6-40 x 3/8 Hex) (Sev.)	154012	Guide 2-10	154110	Hood, Keyboard 2-4
151632 151657	Screw (6-40 × 1/4 Fil) 2-14,2-20,	154013	Bracket 2–6	154111	Plate 2-4
131037	2-21,2-26	154014	Post 2-10	154112	Lever 2-16
151659	Screw (6-40 x 1/2 Fil) 2-4,2-21	154015	Post 2-11	154114	Post 2-16
151660	Screw (6-40 x 7/8 Fil) 2-14	154016	Shaft 2–6	154115	Plate 2-2
151678	Screw, Pilot (1/4-32) 2-2	154017	Stud 2-11	154116	Bail w/Stud 2-18
151686	Screw (4-40 × 3/8 Fil) 2-12,2-13,	154018	Post 2-10	154117	Bail 2-4
	2-16,2-23	154019	Follower 2-9	154118	Lever 2-15
151687	Screw (4-40 × 1/2 Fil) 2-25	154020	Seal 2-4	154119	Bracket 2-4
151688	Screw (4-40 x 5/8 Fil) 2-16	154021	Link 2-4	154120	Lever 2-6
151692	Screw (6-40 x 3/16 Fil) 2-16,2-18,	154023	Latch 2–6	154121	Lever 2-6
	2-24	154025	Plate, Adjusting 2-11	154122	Lever 2-6
151693	Screw (6-40 x 9/16 Fil) 2-21	154027	Bellcrank 2-11	154123	Lever 2-6
1516°4	Screw (6-40 x 11/32 Fil) 2-2	154029	Wick, Felt 2-9	154124	Lever 2-6
151712	Button, Pivot 2-3	154030	Shaft 2-9	154125 154126	Spring 2-6, 2-19,2-24
151715	Spring 2–24	154032	Sleeve, Gear2-9	154127	Bracket 2–15 Nut (6–40 Hex) 2–11
151722	Screw (6-40 x 3/16 Hex) 2-2,2-4,	154033	Lever 2-8	154129	Bar 2-6
	2-6,2-10,2-17,2-21,2-22,2-24	154034	Lever 2-8	154130	Box, Contact 2-12
151723	Screw (10-32 x 3/8 Hex) 2-2A, 2-14	154036	Plate 2-10	154131	Caver 2-12,2-13
151724	Screw (10-32 x 5/8 Hex) 2-3	154037	Lever 2–15 Bracket 2–15	154132	Bracket 2-18
151725	Screw (10-32 x 3/4 Fil) 2-3	154039 154040	Post 2-10	154133	Bracket 2-17
151728	Spring 2-9 Screw (4-40 x 7/8 Fil) 2-12,2-13	154040	Post 2-10	154134	Bracket 2-22
151731	Screw (4-40 x 7/6 Fil) 2-12,2-13 Screw (4-40 x 11/32 Fil) 2-19,2-21	154042	Terminal 2-12,2-13,2-23	154135	Pawl, Contact 2-22
151732 151733	Screw (4-40 x 9/16 Fil) 2-20	154043	Terminal 2-12,2-13,2-23	154136	Pawl 2-22
151737	Screw (4-40 x 11/64 Hex) 2-9,2-24,	154045	Screw, Contact (4-40) 2-12,2-13,	154137	Lever, Adjusting 2-22
131737	2-26		2-23	154138	Washer, Felt 2-9
151820	Spring 2-12,2-13,2-23	154046	Stud 2-8	154140	Bail 2-10
151843	Screw, Adjusting (6-40) 2-7	154047	Post 2-10	154141	Modification Kit 2-15
151879	Stud 2-22	154051	Screw, Shoulder (6-40) 2-11	154142	Modification Kit 2-22
151880	Nut (4-40 Hex) 2-12,2-13,2-23,	154052	Bar 2-6	154144	Cable Assembly 2-22
	2-25	154053	Bail 2-8	154145	Modification Kit 2-18
151985	Plate, Nut 2-22	154055	Bracket 2-6	154146	Modification Kit 2-17
151886	Stud 2-22	154056	Bracket 2-12,2-13,2-23	154147	Modification Kit 2–15
152045	Guard, Gear 2-2	154057	Plate 2-4	154149	Cable Assembly 2-15
152051	Tissue 2-4	154058	Plate 2-4	154153	Cable Assembly 2-15
152318	Switch 2-15	154059	Bracket 2-3	154154	Cam 2-9
152441	Washer, Flat 2-21	154064	Bracket 2-17	154156	Grommet 2-12
152462	Latch 2–2	154065	Lever 2-17	154165	Box Assembly, Contact 2-12

## NUMERICAL INDEX - SECTION 2 (Continued) (Page Numbers Do Not Apply)

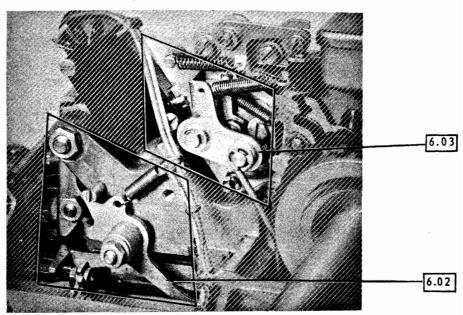
Part	Description and	Part	Description and	Part	Description and
Number	Page Number	Number	Page Number	Number	Page Number
154166	Suppressor, Arc 2-12	158732	Gear (24T and 18T) 2-21	163775	Modification Kit 2-16
154172	Cable Assembly 2-12	158733	Gear (44T) 2-21	163813	Plate w/Stud 2-16
154173	Plate 2-12	158734	Gear (471) 2-21	163814	Lever w/Hub 2-16
154175 154176	Channel, Lock Ball 2-7 Bracket 2-2	158740 158741	Block 2-21 Bar 2-21	163816	Switch (Red) 2-5
154178	Spring 2-10	158753	Armature 2-20	163817 .163852	Switch (Black) 2–5 Keylever Assembly 2–24
154179	Bail 2-7	158754	Core, Magnet 2-20	163963	Plate 2-5
154183	Blade, Front 2-7	158788	Clamp, Bearing 2-21	163964	Plate 2-5
154184	Blade, Rear 2-7	158859	Post 2-20,2-26	163979	Lever w/Stud 2-19,2-26
154189	Insulator 2-12,2-13	159287	Isolator 2-26	164005	Modification Kit 2-19
15419 <b>0</b> 15419 <b>1</b>	Filter w/Terminals 2-13	159976 161100	Armature 2–26 Spring, Contact 2–2A	164078	Washer, Flat 2-19
154193	Spring 2-11 Plate 2-15	161346	Washer, Felt 2-10	164127 164131	Plate 2-5 Cable Assembly 2-5
154194	Base 2-12,2-13,2-23	161347	Washer, Felt 2-16, 2-22	164138	Stud 2-25
154197	Plug, Button 2-4	161525	Connector, Plug (14 Pt) 2-5	164143	Plate, Mounting 2-24
154198	Window 2-4	162337	Strap 2-13	164144	Plate, Side 2–24
154199	Shim (.005") 2-2	162436	Cable Assembly 2-13	164145	Pivot 2-24
154200	Frame 2-8	162437 162641	Cable Assembly 2-13	164146	Lever, Stop 2-24
154201 154202	Shim (.014") 2-2	162643	Modification Kit 2-21 Bracket 2-21	164148 164149	Spacer 2-24
154203	Screw, Special 2-4,2-5 Bracket 2-4	162645	Gear (21T) 2-21	164150	Lever, Blocking 2–24 Bracket, Spring 2–24
154204	Grommet 2-4, 2-5	162646	Shaft 2-21	164154	Lever, Sensing 2-24
154206	Cable Assembly 2-12,2-13	162647	Sleeve 2-21	164155	Yoke, Magnet 2-24
154207	Cable Assembly 2-12	162648	Plate 2-21	164156	Armature 2-24
154208	Bracket 2-2	162649	Retainer 2-21	164157	Shaft 2-24
154209	Box, Contact 2-13	162650	Shaft W/Bearing 2-21	164160	Link, Drive 2-25
154210 154211	Bracket 2-4 Bracket 2-4	162652 162653	Plate 2-21 Retainer 2-21	164161 164162	Drum, Message 2-24 Ring, Retainer 2-24
154212	Frame 2-4	162654	Hub 2-21	164163	Blade, Stop 2-24
154215	Spring 2-11	162655	Gear (42T) 2-21	164164	Blade, Code 2-24
154217	Wick 2-10	162656	Shaft 2-21	164165	Plate, Drive 2-24
154225	Box Assembly, Contact 2-13	162657	Gear (48T) 2-21	164168	Pawl, Stepping 2-24
154226	Box w/Strap 2-13	162658 162659	Hub 2-21	164169	Stud, Eccentric 2-24
154227 154236	Bracket 2-17 Lever 2-8	162660	Retainer 2-21 Post 2-21	164201 164269	Switch (Gray) 2–5 Plate 2–5
154237	Lever 2-11	162661	Link w/Stud 2-21	164327	Cable Assembly 2-5
154238	Extension 2-7	162663	Stud 2-21	164375	Plate 2-5
154239	Extension w/Post 2-7	162664	Link 2-21	164376	Guard 2-5
154240	Bail 2-11	162665	Bracket 2-21	164379	Cable Assembly 2-20
154241	Stud 2-11	162666	Lever w/Stud 2-21	164485	Bail w/Hub 2-20
154330 154350	Plate 2-11 Modification Kit 2-11	162668 162669	Bracket 2–21 Gear (15T) 2–21	164494 164495	Modification Kit 2-15
154386	Plate, Adjusting 2-11	162686	Guard 2-21	164617	Cable Assembly 2-15 Base 2-14
154662	Spacer 2-3	162873	Contact Assembly, Universal 2-19,	164644	Post 2-20
154663	Shaft 2-3		2-25	164645	Post 2-20
154694	Disk 2-9	162874	Clamp 2-19,2-25	164646	Plate, Nut 2-20
155023	Switch, Toggle 2-5	162875	Bracket 2-19,2-25	164647	Bracket 2-20
155750	Sleeve, Insulating 2-2,2-12,2-13, 2-20,2-22, 2-23,2-25	162876 162878	Bar 2-19,2-26 Contact Assembly 2-2A	164649 164650	Plate 2-20 Contact Assembly 2-20
155751	Sleeve, Insulating 2-15,2-22	162879	Spring, Contact 2-2A	164651	Bail, Armature 2-20
155753	Sleeve, Insulating 2-13,2-24	162880	Bracket 2–2A	164652	Bar, Universal 2-20
155944	Post 2-24	162881	Plate 2-2A	164653	Bracket 2-20
155954	Switch 2-24	162882	Bushing 2-2A	164656	Bar, Clutch Trip 2–20
156503	Wick, Felt 2-9	162883	Guard, Contact 2-2A	164660	Modification Kit 2-20
156509	Washer, Flat 2–10 Latch 2–10	162884 162885	Arm 2-2A Cam 2-9	164718	Plate, Adapter 2-14
156516 1 <b>5</b> 6574	Post 2-7	162886	Screw (4-40 x 7/32 Hex) 2-9	164719 164720	Bracket Assembly 2-14 Bracket Assembly 2-14
156591	Washer, Felt 2-14	162891	Cover 2-13	164721	Shaft 2-14
156630	Washer, Felt 2–10	162892	Box Assembly, Contact 2-13	164722	Hub 2-14
156632	Screw (6-40 x 13/32 Hex) 2-4	162893	Cable Assembly 2-13	164723	Wheel 2-14
156644	Link 2-12,2-13,2-23	163359	Modification Kit 2-21	164724	Pulley 2-14
156663	Insulator 2-12,2-13,2-23	163360	Bracket 2-21	164725	Pulley 2-14
1 <i>5</i> 6740 1 <i>5</i> 7288	Screw (6-40 x 7/32 Hex) 2-2A,2-25 Plate, Adapter 2-21	163368 1634 <b>40</b>	Cam 2-9 Gear (481) 2-3	164726 164727	Post 2-14 Lever 2-14
158163	Switch 2-2,2-12,2-13	163445	Insulator 2-13,2-23	164728	Post 2-14
158164	Lever 2-2	163460	Gear (55T) 2-3	164729	Bracket Assembly 2-14
158268	Latch, Code Bar Bail 2-11	163506	Cable Assembly 2-13	164731	Shaft 2–14
158712	Gear (261) 2-21	163519	Sleeve, Gear 2-9	164732	Shaft 2-14
158716	Gear (39T) 2-21	163536	Spacer 2-13	164734	Belt 2-14
158723	Raller 2-21	163537	Screw (4-40 x 1-1/2 Fil)2-13,2-23	164735	Coupling, Flexible 2-14

## NUMERICAL INDEX - SECTION 2 (Continued) (Page Numbers Do Not Apply)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
164926 172635	Modification Kit 2-14 Plate 2-14	174414	Bushing, Insulator 2-23	176782	Gear (63T) 2-26
172635	Bracket 2-14	174415 174416	Cover 2-23 Box, Contact 2-23	176784 176787	Flange, Bearing 2-26 Gear (66T) 2-26
172976	Filter w/Terminals 2-13	174421	Filter W/Terminals 2-23	176789	Hub 2~26
173028	Post, Spring 2-25	174422	Filter W/Terminals 2-23	176790	Washer, Bearing 2-26
173029	Lever, Latch 2–25	174491	Modification Kit 2-13	176792	Sleeve 2-26
173095	Link, Drive 2-25	176278	Plate, Nut 2-24	176793	Sleeve 2-26
173096	Stud, Eccentric 2–25	176659	Lever, Trip 2-2A	176794	Spring 2-26
173124	Cable Assembly 2-2	176661	Bracket 2 <b>–</b> 2A	176795	Spring 2-26
173453	Cable Assembly 2-23	176663	Link 2-2A	176796	Wick, Felt 2-26
173712	Cable Assembly 2-2	176572	Solenoid, Feed Out 2-2A	176797	Gear (48T) 2-26
173907	Spacer 2-21	176673	Suppressor, Spark 2-2A	176799	Gear, (35T) 2-26
173908	Post 2-21	176577	Shaft, Clutch 2–26	176802	Plate, Bearing 2-26
173909	Washer, Locking 2–21	176678	Shaft, Driver 2-26	176803	Plote, Bearing 2-26
173912	Plate Assembly 2-21	176691	Resistor (500 ohms) 2-2A	176804	Shaft, Idler 2-26
174250	Pin, Roll 2-26	176703	Plate, Mounting 2–2A	176805	Gear (25) 2-26
174410	Box Assembly, Contact 2-23	176752	Ring Retaining 2-26	176807	Shaft, Trip 2-26
174411	Insulator 2–23	176770	Bracket 2–26	176808	Bracket 2-26
174412	Spacer 2-3	176772	Gear (56T) 2-26	176809	Bracket 2-26
174413	Terminal 2-23	176774	Gear (42T) 2-26	179110	Coble Assembly 2-23

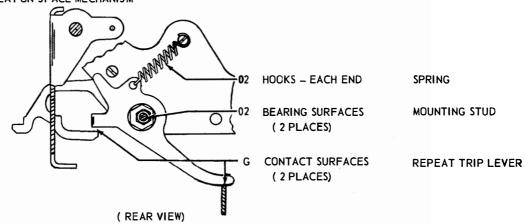
#### 6. VARIABLE FEATURES

#### 6.01 REST KEYBOARD IN UPRIGHT POSITION

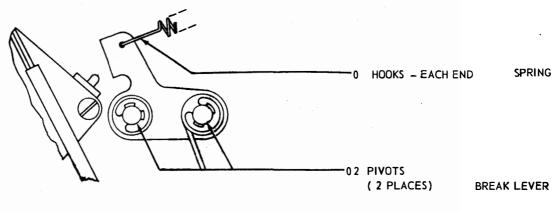


( REAR VIEW)

#### 6.02 REPEAT ON SPACE MECHANISM

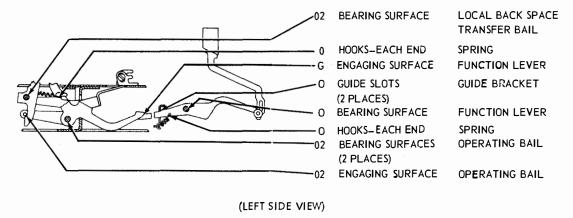


6.03 SIGNAL LINE BREAK MECHANISM (ELECTRICAL)

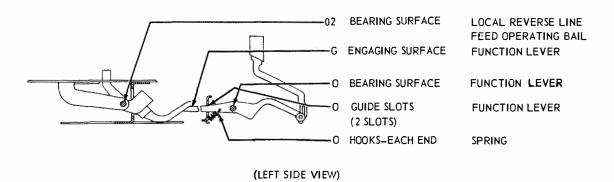


( REAR VIEW)

#### 6.23 LOCAL BACK SPACE MECHANISM

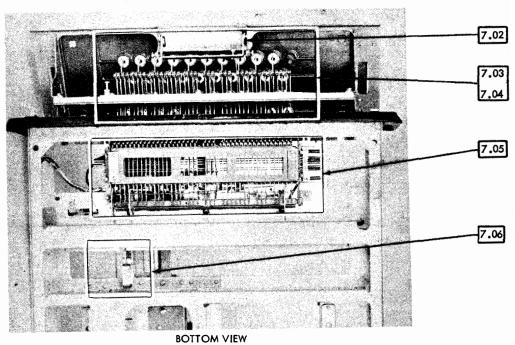


6.24 LOCAL REVERSE LINE FEED MECHANISM

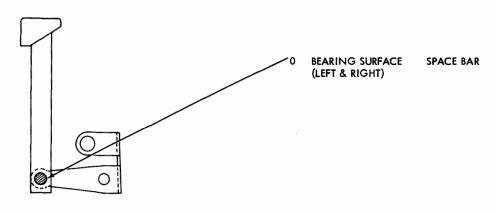


#### 7. NEW DESIGN KEYBOARD

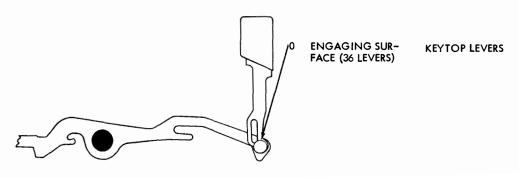
#### 7.01 REST KEYBOARD BOTTOM SIDE UP



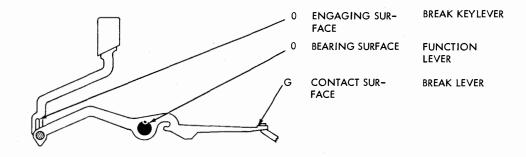
#### 7.02 SPACE BAR MECHANISM

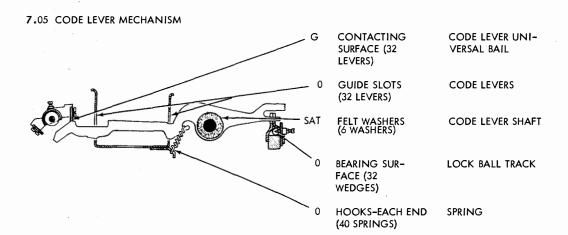


7.03 KEYLEVER MECHANISM

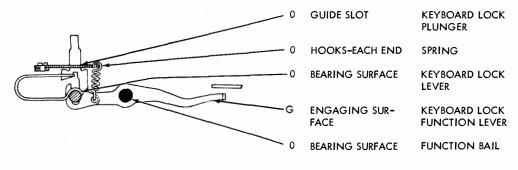


#### 7.04 BREAK LEVER MECHANISM

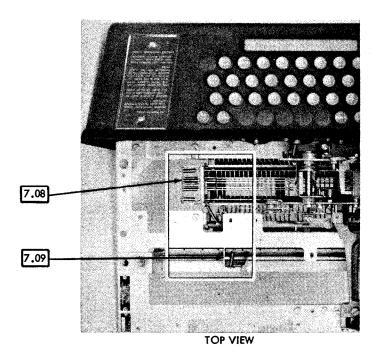




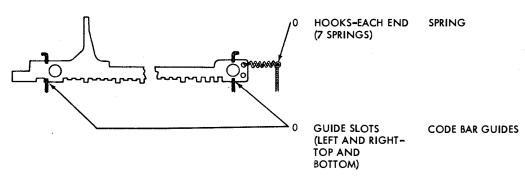
#### 7.06 KEYBOARD LOCK MECHANISM



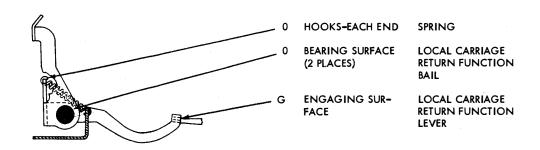
#### 7.07 REST KEYBOARD IN UPRIGHT POSITION



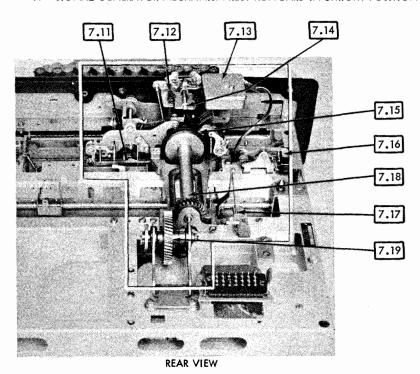
7.08 CODE BAR MECHANISM



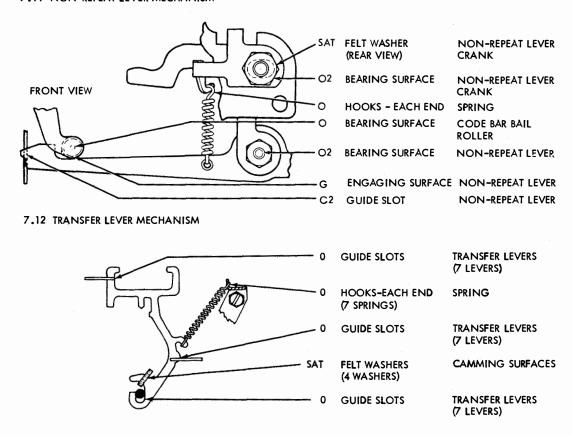
7.09 LOCAL CARRIAGE RETURN MECHANISM



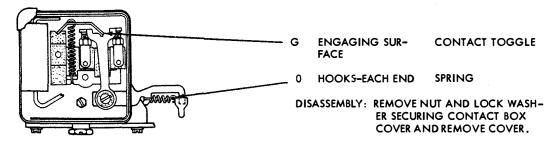
#### 7.10 SIGNAL GENERATOR MECHANISM REST KEYBOARD IN UPRIGHT POSITION



#### 7.11 NON-REPEAT LEVER MECHANISM

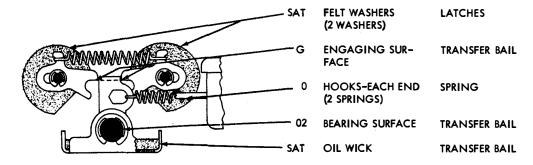


#### 7.13 CONTACT BOX

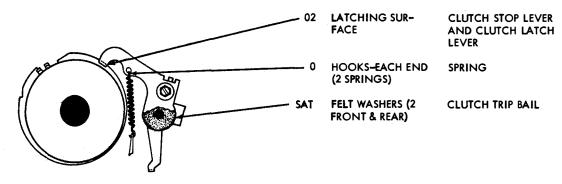


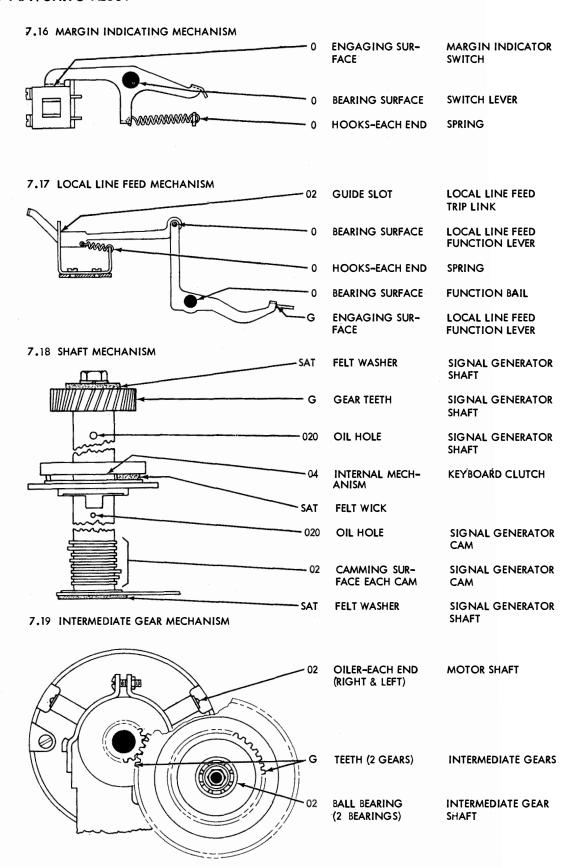
CAUTION: GREASE SPARINGLY - KEEP CONTACTS FREE OF OIL OR GREASE.

#### 7.14 TRANSFER BAIL MECHANISM

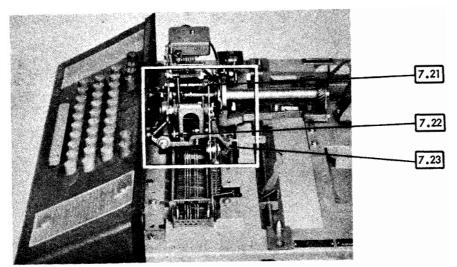


#### 7.15 FUNCTION CLUTCH MECHANISM



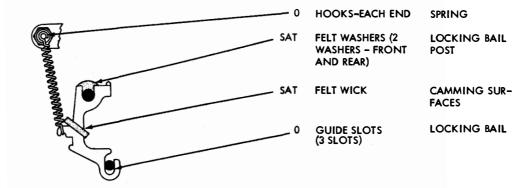


#### 7.20 SIGNAL GENERATOR MECHANISM (continued) REST KEYBOARD IN UPRIGHT POSITION

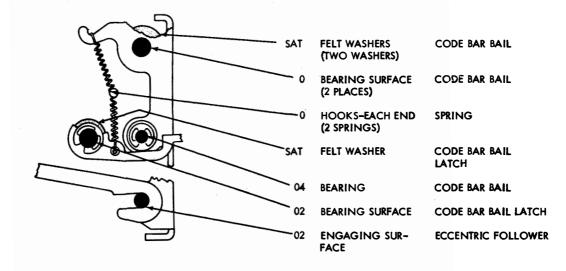


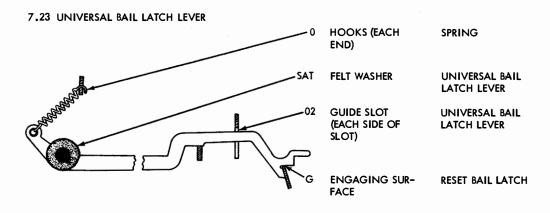
**RIGHT SIDE VIEW** 

#### 7.21 LOCKING BAIL MECHANISM

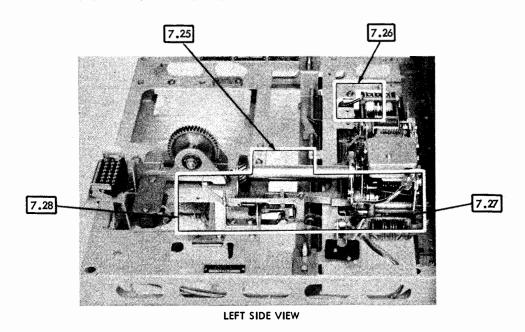


### 7.22 CODE BAR BAIL MECHANISM

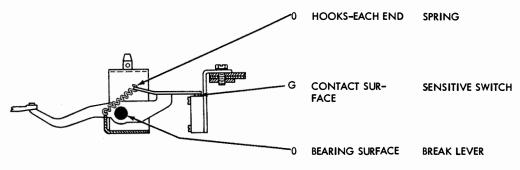




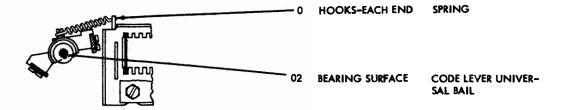
# 7.24 NEW DESIGN KEYBOARD AND VARIABLE FEATURES REST KEYBOARD IN UPRIGHT POSITION



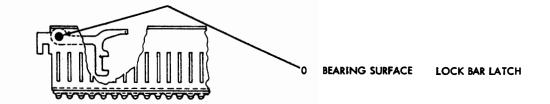
#### 7.25 ELECTRICAL LINE BREAK MECHANISM

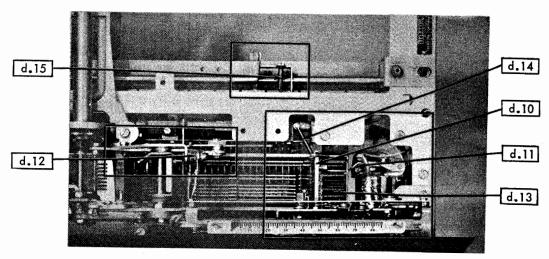


#### 7.26 CODE LEVER UNIVERSAL BAIL MECHANISM



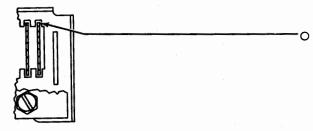
#### 7.27 LOCK BAR LATCH MECHANISM



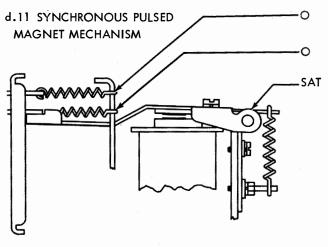


**FRONT** 





GUIDE SLOTS (LEFT, RIGHT, TOP AND BOTTOM)



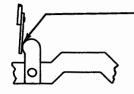
HOOKS-EACH END UNIVERSAL CODE BAR SPRING

HOOKS-EACH END CLUTCH TRIP BAR SPRING

SAT FELT WASHERS

ARMATURE-PIVOT

d.12 CONTACT SWINGER



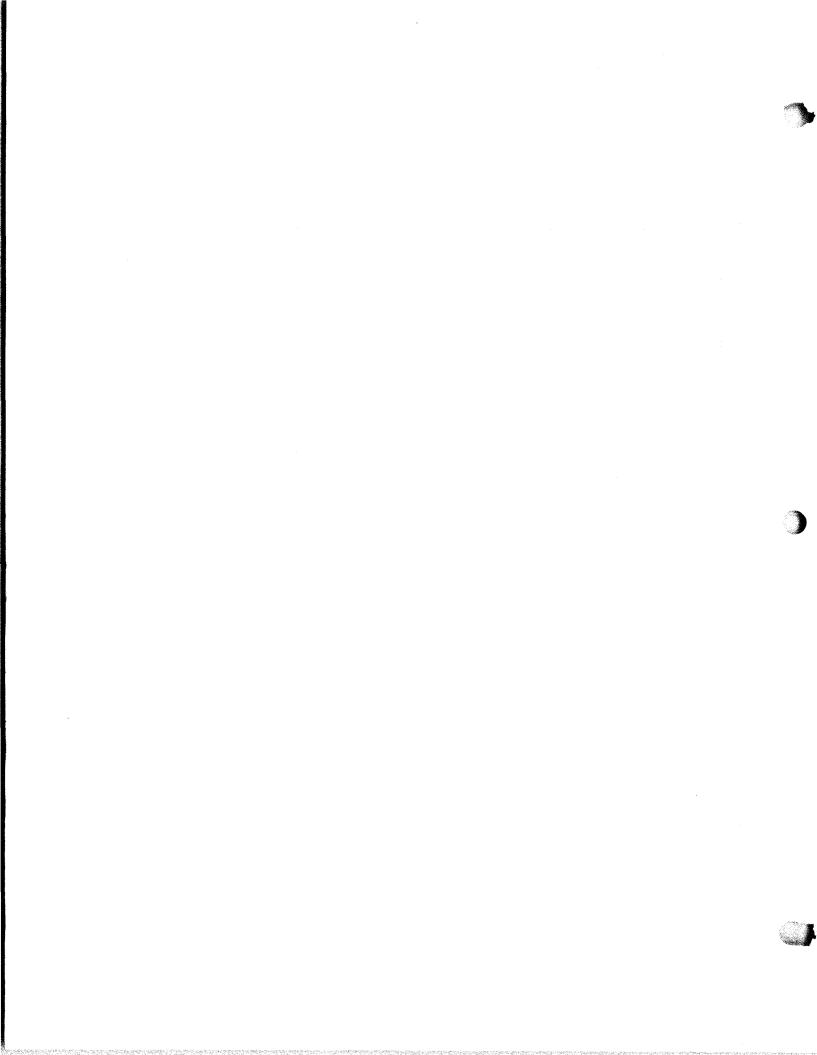
ENGAGING SURFACE

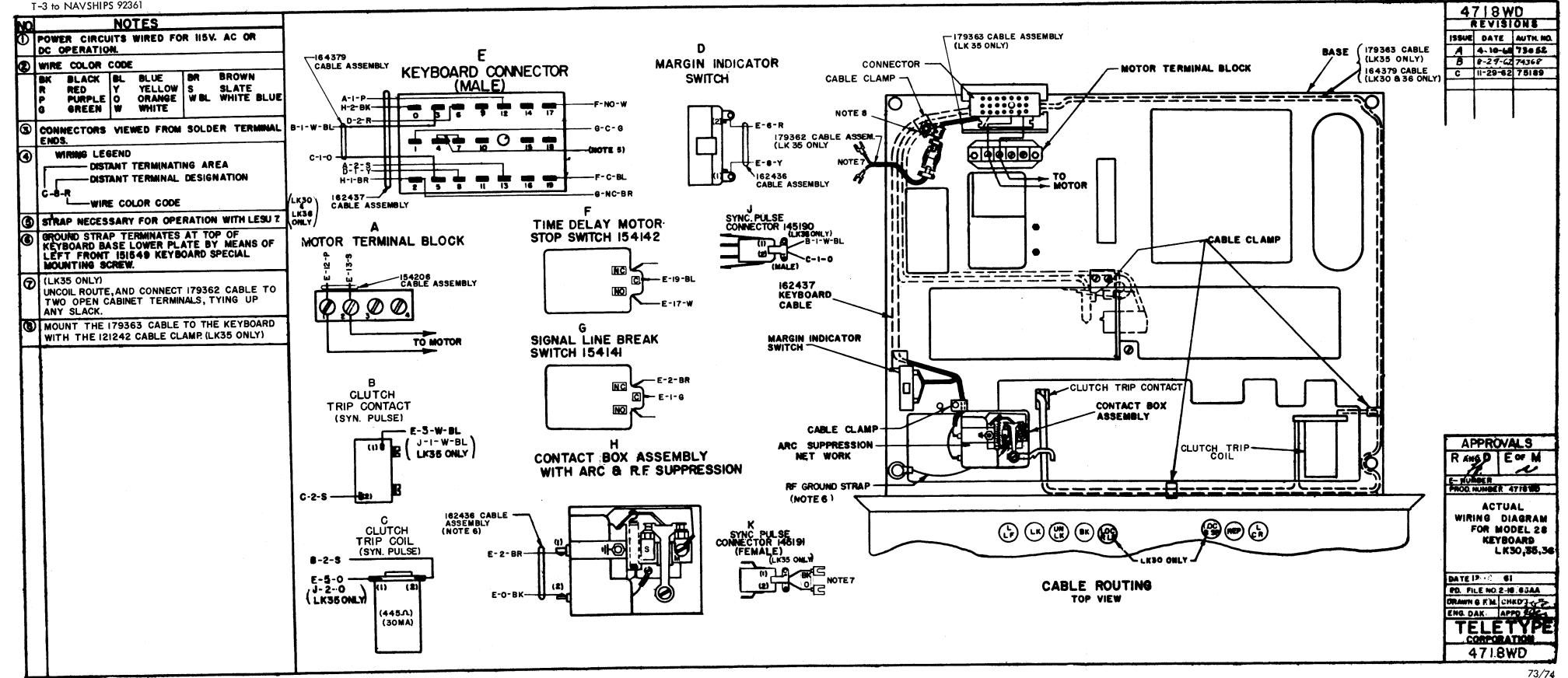
TABLE 1. TRANSMISSION PATTERNS

TRANSMISSION PATTERN	OPERATIONS PER MINUTE	BAUD	PULSE LENGTH (SECONDS)	FREQUENCY (CYCLES PER SECOND)	CHARACTERS PER SECOND
7.42	368	45.5	0.022	22.75	6
7.00	3 <b>9</b> 0	45.5	0.022	22.75	6.5
7.42	404	50	0.020	25	6.7
7.00	428	50	0.020	25	7.1
7.42	460	56.9	0.0175	28.45	7.7
7.42	600	74.2	0.0135	37.1	10
7.00	636	74.2	0.0135	37.1	10.6

TABLE 2. MOTOR AND KEYBOARD OR BASE GEAR SETS FOR VARYING OPERATING SPEEDS

	GEAR SETS - 5 LEVEL CODE													
			UNIT	SET	NUMBER		PINION			GEAR				
WPM	ОРМ	BAUD	CODE	FIBER	NYLON	TEETH	STEEL	NYLON	TEETH	FIBER	NYLON			
8	368	45.45	7.42	151060	161293	14	151130	159278	96	151131	159279			
65	390	45.45	7.00		173795			173794			173793			
67	404	50	7.42	152766		13	152765		81	152764				
71	428	50	7.00		163504	18		163461	117		163462			
75	460	56.88	7.42	151075	161294	17	151132	159281	93	151133	159282			
100	600	74.2	7.42	151100	161295	20	151134	159284	84	151135	159285			
107	643	75	7.00		163505	24		163463	104		163464			



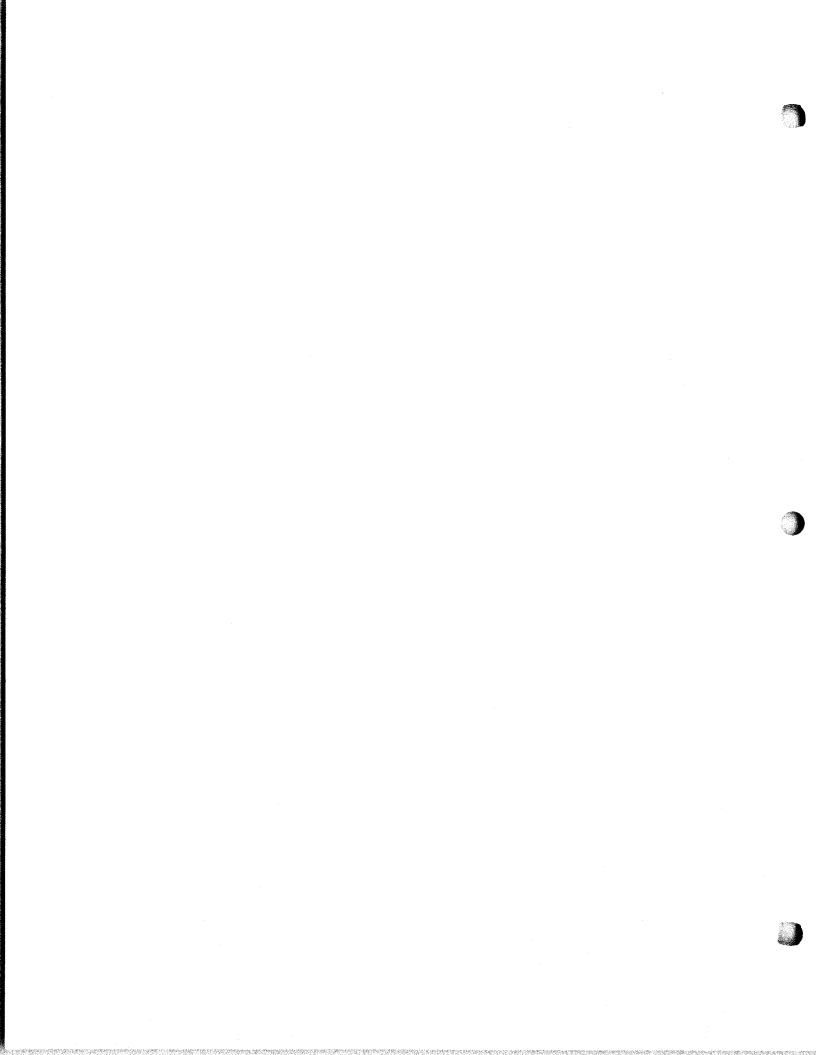




TEMPORARY CORRECTION T-4 TO TECHNICAL MANUAL FOR TELETYPEWRITERS TT-47/UG, TT-48/UG, TT-69/UG AND TT-70/UG NAVSHIPS 91393

This temporary correction supplements T-3 to the manual to reflect the equipment changes made by Field Change 2-TT-47/UG, 2-TT-48/UG, 2-TT-69/UG or 2-TT-70/UG; NAVSHIPS 981424. The purpose of this field change is to change teletypewriters used for communication service to teletypewriters for aerological weather service.

No further corrections need be made if the corrections in T-3 have been made. Symbol designations N-2500 through N-2511 should be disregarded when making this change. Insert this temporary correction in the manual immediately after the front cover and preceding T-3.



T-3 to NAVSHIPS 91393 T-3 to NAVSHIPS 91713

Temporary correction T-3 to instruction book for Teletypewriters

- 1. TT-47/UG, TT-48/DG, TT-69/UG, TT-70/UG (NAVSHIPS 91393)
- 2. TT-47A/UG, TT-48A/UG, TT-69A/UG, TT-70A/UG, (NAVSHIPS 91713)

Temporary correction T-3 to instruction book covering Teletype-writers TT-47/UG, TT-48/UG, TT-69UG and TT-70/UG, TT-47A/UG, TT-48A/UG, TT-69A/UG, TT-70A/UG, that have been modified by Navy Field Change No.1-TT47/UG, 1-TT-48/UG, 1-TT-69/UG, 1-TT-70/UG, 1-TT-47A/UG, 1-TT-48A/UG, 1-TT-69A/UG, 1-TT-70A/UG.

The changing of Teletypewriters used for communication service to teletypewriters used for aerological weather service does not affect the installation instructions, or the maintenance practice of the equipment.

Make the following pen and ink corrections in the instruction book and then insert the temporary correction in front of the title page.

Items designated 1 apply to NAVSHIPS 91393; items designated 2 apply to NAVSHIPS 91713.

- 1. Page 2-10, Par. 3.i.
- 2. Page 2-10, Par. 3.i.

Include an asterisk in front of the second sentence and include the following footnote:

"\* This sentence does not apply if:

- 1. Field Change 1-TT-47/UG, 1-TT-48/UG, 1-TT-69/UG, or 1-TT-70/UG has been installed.
- 2. Field Change 1-TT-47A/UG, 1-TT-48A/UG, 1-TT-69A/UG, or 1-TT-70A/UG has been installed."
  - 1. Page 2-20, Fig. 2-43.
  - 2. Page 2-20, Fig. 2-43.

Staple Figures 1 and 2 of temporary correction T-3 adjacent to Figure 2-43 of the respective Instruction Pook.

- 1. Pages 2-30, 2-31, Figs. 2-57, 2-58.
- 2. Pages 2-31, 2-32, Figs. 2-57, 2-58.

Include an asterisk in front of the words "BLANK" and "KEYPOARD LOCK" and include the following footnote: "\*This does not apply if:

- 1. Field Change 1-TT-47/UG, 1-TT-48/UG, 1-TT-69/UG or 1-TT-70/UG has been installed."
- 2. Field Change 1-TT-47A/UG, 1-TT-48A/UG, 1-TT-69A/UG or 1-TT-70A/UG has been installed."

Include a double asterisk and the word "\*\*BLANK" below the words "KEYBOARD LOCK" and include the following footnote; "\*\*This applies if:

- l. Field Change l-TT-47/UG, l-TT-48/UG, l-TT-69/UG or l-TT-70/UG has been installed."
- 2. Field Change l-TT-47A/UG, l-TT-48A/UG, l-TT-69A/UG or l-TT-70A/UG has been installed."
  - 1. Page 2-39, Par. 4.i (8), Fig. 2-74.
  - 2. Page 2-40, Par. 4.i (8), Fig. 2-74.

Include an asterisk in front of paragraph 4.i (8), and Fig. 2-74 and include the following footnote: "\*This does not apply if:

- l. Field Change l-TT-47/UG, l-TT-48/UG, l-TT-69/UG or l-TT-70/UG
  has been installed."
- 2. Field Change 1-TT-47A/UG, 1-TT-48A/UG, 1-TT-69A/UG or 1-TT-70A/UG has been installed."
  - 1. Page 2-40, Fig. 2-75.
  - 2. Page 2-41, Fig. 2-75.

Include an asterisk in front of Fig. 2-75 and include the following footnote: "\*This does not apply if:

- 1. Field Change 1-TT-47/UG, 1-TT-48/UG, 1-TT-69/UG or 1-TT-70/UG has been installed."
- 2. Field Change 1-TT-47A/UG, 1-TT-48A/UG, 1-TT-69A/UG or 1-70A/UG has been installed."
  - 1. Page 4-2, Par. 2. g.
  - 2. Page 4-2, Par. 2. g.

Include an asterisk in front of paragraph 2. g. and include the following footnote: "\*This does not apply if:

- 1. Field Change 1-TT-47/UG, 1-TT-48/UG, 1-TT-69/UG or 1-TT-70/UG has been installed."
- 2. Field Change 1-TT-47A/UG, 1-TT-48A/UG, 1-TT-69A/UG or 1-TT-70A/UG has been installed."

### 1. Page 7-104, Fig. 7-96

Include an asterisk in front of symbol designations 0-167 to 0-176, 0-177 to 0-187; and below this add the following: "\*\*0-168, 0-176, 0-2514 through 0-2521; \*\*0-177, 0-184 through 0-186, 0-2522 through 0-2527; and include the following footnotes: "\*This does not apply or \*\*This applies if Field Change 1-TT-47/UG, 1-TT-48/UG, 1-TT-69/UG or 1-TT-70/UG has been installed.

## 2. Page 7-106, Fig. 7-98

Include an asterisk in front of symbol designations 0-231 to 0-240, 0-241 to 0-251 and below this add the following: "\*\*0-232, 0-240, 0-2514 through 2521; \*\*0-241, through 0-250, 0-2522 through 0-2527; and include the following footnotes: "\*This does not apply or \*\*This applies if Field Change 1-TT-47A/UG, 1-TT-48A/UG, 1-TT-69A/UG, or 1-TT-70A/UG has been installed.

### 1. Page 7-122, Fig. 7-117

Include an asterisk in front of symbol designations 0-1413, 0-1431, 0-1436 and symbol ©; and 0-1412, 0-1450 to 0-1453, and symbol ©; to these add \*\*0-2528, \*\*0-1451 to 0-1454, \*\*© respectively; and include the following footnotes: "\*This does not apply or \*\*This applies if Field Change 1-TT-47/UC, 1-TT-48/UC, 1-TT-69/UC or 1-TT-70/UC has been installed.

# 2. Page 7-124, Fig. 7-119

Include an asterisk in front of symbol designations 0-1432, 0-1466, 0-1468 and symbol (); and 0-1431, 0-1451 to 0-1454 and symbol (), to these add \*\*0-2529, \*\*0-1452 to 0-1455, \*\*() respectively; and include the following footnotes: "\*This does not apply or \*\*This applies if Field Change 1-TT-47A/UG, 1-TT-48A/UG, 1-TT-69A/UG or 1-TT-70A/UG has been installed.

## 1. Page 7-131, Fig. 7-126

Include an asterisk in front of symbol designations H-1864: 0-1858 to 0-1908; and add \*\*H-2500; 0-1858 through 0-1893, 0-1898, 0-1901, 0-1907, 0-2501 through 0-2513 respectively; add \*0-2138, \*\*0-2500 to indicate the type pallet set; and include the following footnote: "\*This does not apply or \*\*This applies if Field Change 1-TT-47/UG, 1-TT-48/UG, 1-TT-69/UG or 1-TT-70/UG has been installed.

### 2. Page 7-135, Fig. 7-130

Include an asterisk in front of symbol designations H-1964; 0-1946 to 0-1995; 0-1943; and add H-2500; 0-1946 through 0-1981, 0-1986, 0-1988, 0-1994, 0-2501 through 0-2513; 0-2500 respectively; and include the following footnotes: "\*This does not apply or \*\*This applies if Field Change 1-TT-47A/UG, 1-TT-48A/UG, 1-TT-69A/UG or 1-TT-70A/UG has been installed.

### Table 8-4 Combined Parts and Spare Parts List

Make the following notation beside the affected symbol designation to indicate the presence of the information contained in pages 4 to 6 of this temporary correction: "See T-3".

		PARTS								3P/	AKE.	PART					
SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	JAN OR NAVY TYPE DESIGNATION	NAVY TYPE STOCK		NUFAC- RERS DESIG.	TELETYPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOTAL NO.		OUAN.	STC SC	-				
H <b>-</b> 2500	SCREW, machine: wrench drive; Hex H; stainless steel; 4-40; approx 1/4" lg o/a; 3/16" lg threaded portion; head 1/16 thk x 3/16"across flats; character "RE" stamped on head	Holds and identifies type pallet arrangement			CTT	151738 RE	151738RE	H-2500	1								
<b>1–</b> 2500	PLATE, identification: aluminum; approx 1-1/2" wd x 0.032" thk; inscribed w/code designation "MX-1421/UG", unit name, contract & serial numbers and space for stamp approval; letters, figures, border & stamping areas are raised, background etched and filled w/black lacquer, dull clear lacquer applied to raised surface and background; 3/32" mtg hole ea end	Identifies Automatic Typer			CTT	152791	152791	N-2500	1								
-2501	Same as N-2500 except inscribed w/code designation, "MX-1422/UG"	Identifies Keyboard			CTT	152792	152792	N-2501	1								
I <b>-</b> 2502	PLATE, identification: aluminum; approx 3" lg x 1" wd x 0.032" thk material; inscribed w/code designation, "TT-128/UG", unit name, contract & serial numbers and space for stamp approval; letters, figures, border & stemping areas are raised, background etched and filled w/black lacquer applied to raised surface and background; 1/8" mtg hole ea end.	Identifies Teletypewriter Set			CTT	152793	152793	N−2502	1								
1 <b>-</b> 2503	Same as N-2502 except inscribed w/code designation, "TT-129/UG"	-Identifies Teletypewriter Set			CTT	152794	152794	N-2503	1								
N-2504	Same as N-2502 except inscribed w/code designation, "TT-130/UG"	-Identifies Teletypewriter Set			CTT	152795	152795	N-2504	1								
N-2505	Same as N-2502 except inscribed w/code designation, "TT-131/UG"	-Identifies Teletypewriter Set	;		CTT	152796	152796	N-2505	1								
N-2506	Same as N-2500 except inscribed w/code designation, "MX-1421A/UG"	-Identifies Automatic Typer			CTT	153085	153085	N-2506	1								
N-2507	Same as N-2500 except inscribed w/code designation, MMX-1422A/UG"	Identifies Keyboard			CTT	153086	153086	N-2507	1								
1-2508	Same as N-2502 except inscribed w/code designation "TT-128A/UG"	Identifies Teletypewriter Set			CTT	153087	153087	N-2508	1								
N-2509	Same as N-2502 except inscribed w/code designation "TT-129A/UG"	Identifies Teletypewriter Set			CTT	153088	153088	N-2509	1								
N-2510	Same as N-2502 except inscribed w/code designation "TT-130A/UC"	Identifies Teletypewriter Set			CTT	153089	153089	N-2510	ı								
Ņ-2511	Same as N-2502 except inscribed w/code designation "TT-131A/UG"	Identifies Teletypewriter Set			CTT	153090	153090	N-2511	1								

0.0500	DATIFF CET tunes of 61 pellets 61 appings	Types copy	· 1	СТТ	151683	151683	0-2500	۱, ۱		1 1 1
0-2500	PALLET SET, type: c/o 64 pallets, 64 springs, front plate, rear plate, cover, 2 screws, 2 lock washers, 2 flat washers, stud & shoulde nut; approx 3-7/16" lg x 1" h x 3/4" wd o/a dimen of assem; "RE" stamped in head of one	r			1)100)	1)100)	0-2)00			
	screw for identification of pallet arrangement				:				ı	
0 <b>–</b> 2501	PALLET, type: character; (-) steel, nickel pl; Murray style type; approx 5/8" lg x 3/52" wd x 3/16" h o/a; mts by shaft w/spring mtg hole near shoulder; curved type on 7/8" rad	Makes impression of character ( - ) on paper	350016-19	6 CTT	151941	151941	0-2501	1		
0-2502	Same as 0-2501 except character (-)	Makes impression of character (-) on paper	350016-20	CTT	151942	151º42	0-2502	1		
0 <b>–</b> 2503	Same as 0-2501 except character (  )	Makes impression of character ( ) on paper	350016-20	о стт	151943	151943	0-2503	1		
0-2504	Same as 0-2501 except character (   )	Makes impression of character ( • ) on paper	350016-20	4 CTT	151944	151944	0–2504	1		
0-2505	Same as 0-2501 except character (▼)	Makes impression of character ( $\times$ ) on paper	359016-20	3 CTT	151945	151945	0-2505	1		
0-2506	Same as 0-2501 except character (/)	Makes impression of character $(                                   $	350016-19	8 CTT	151946	151946	0-2506	1		
0-2507	Same as 0-2501 except character (\(\cdrt\))	Makes impression of character ( \( \) on paper	350016-17	6 CTT	151947	151947	0-2507	1		
0-2508	Same as 0-2501 except character (/)	Makes impression of character ( / ) on paper	350016-18	9 CTT	151948	151948	0–2508	1		
0-2509	Same as 0-2501 except character (+)	Makes impression of character (+) on paper	350016-20	2 CTT	151949	151949	0–2509	1		
0 <b>-</b> 25 <b>1</b> 0	Same as 0-2501 except character (O)	Makes impression of character ( ) on paper	35001 <b>6</b> .17	7 СТТ	151950	151950	0-2510	1		
0 <b>-</b> 2511	Same as 0-2501 except character ((())	Makes impression of character ((()) on paper	350016-18	ОСТТ	151951	151951	0-2511	1		
0-2512	Same as 0-2501 except character((D))	Makes impression of character ((1)) on paper	350016-17	9 CTT	151952	151952	0-2512	1		
0-2513	Same as 0-2501 except character ((+))	Makes impression of character ( ) on paper		CTT	151953	151953	0 <b>–</b> 251 <b>3</b>	1		
0-2514	KEYLEVER: steel, nickel pl lever w/cellulose acetate butyrate (tenite II) top; irregular shape, round keytop concave on top & tapered to point on bottom, pressed on one end of lever; approx 2-1/4" lg x 1/2" diam keytop o/a, 0.042" thk material; mts by irregular shape elongated slot in lower end of lever; green keytop w/white characters " + ,A"	Operates 0-330	<b>\$</b> 50016 <b>-</b> 19	CTT	152001	152001	0-2514	1		
0 <b>-</b> 2515	Same as 0-2514 except characters " /,D"	Operates 0-332	3500 <b>16-1</b> 8	7 СТТ	152004	152004	0-2515	1		
0-2516	Same as 0-2514 except characters "→,F"	Operates O-333	350016 <b>-1</b> 8	CTT	152005	152005	0-2516	1		
0-2517	Same as 0-2514 except characters " \ ,G"	Operates 0-334	350016-193	CT'T	152006	152006	0-2517	1		
0-2518	Same as 0-2514 except characters "   ,H"	Operates 0-335	350016-308	CTT	152008	152008	0-2518	1		
0 <b>-</b> 2519	Same as 0-2514 except characters "/,J"	Operates 0-336	350016–301	CTT	152010	152010	0-2519	1		

		PA	RTS							SP	ARE	P	٩I
SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	JAN OR NAVY TYPE DESIGNATION	STANDARD NAVY STOCK NUMBER		NUFAC- IRERS DESIG.	TELETYPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOTAL NO.		OUAN	ST XO	-1
0-2520	Same as 0-2514 except characters " + ,K"	Operates 0-337		3 <b>50016</b> -205	СТТ	152011	152011	0-2520	1				
0-2521	Same as 0-2514 except characters " \ ,L"	Operates 0-338		50016-199	CTT	152012	152012	0-2521	1				
0-2522	KEYLEVER: steel, nickel pl lever w/cellulose acetate butyrate (tenite II) top; irregular shape, round keytop concave on top & tapered to point on bottom, pressed on one end of lever; approx 1-5/8" lg x 1-1/4" wd x 0.042" thk material o/a, 1/2" diam keytop; mts by irregular shape elongated slot in lower end of lever; green keytop w/white characters "+,Z"	Operates 0-341		350016-209	CTT	152015	152015	0-2522	1				
0-2523	Same as 0-2522 except characters "Q,C"	Operates 0-343		350016 <b>-</b> 185	CTT	152003	152003	0-2523	1				
0-2524	Same as 0-2522 except characters " ①, V"	Operates 0-344		350016-208	СТТ	152014	152014	0-2524	1				
0-2525	Same as 0-2522 except characters "⊕,B"	Operates 0-345		50016-197	СТТ	152002	152002	0-2525	1				
0-2526	Same as 0-2522 except characters " + N"	Operates 0-346		50016-182	CTT	152013	152013	0-2526	1				
0-2527	Same as 0-2522 except character '_"	Operates 0-350		350016-206	CTT	152016	152016	0-2527	1				
0~2528	BAR, function: steel, nickel pl; irregular shape, formed wing & ear on wd end, notched ear at center; approx 2 15/16" lg x 1 1/4" h x 1/8" wd o/a, 0.048" thk material; mts by cutout in narrow end; "LC BL" stamped in wd end	Operates 0-1454 (NAVSHIFS 91393)		350016-181	CTT	150610	150610	0-252 <b>8</b>	1				
0-2529	BAR, function: steel, nickel pl; irregular shape, formed wing & ear on wd end, squared & elongated cutouts other end, notched ear at ctr; approx 2 15/16" lg x 1 1/4" h x 1/8" wd o/a, 0.048" thk material; mts by cutout in narrow end; "LC BL" stamped in wd end	Operates 0-1455 (NAVSHIFS 91713)			CTT	152675	152675	0-2529	1				
l	-												
							Ì						

<b>-</b>			LET	TER	s —			-		— F	' I G U	RES			-
M	N	Н	SPACE	BLANK	T	(//// (C.R./	O 45	. 348	<b>(B)</b>	<b>↓</b>	////// SPACE //////	-	5	(//// (C.R.//	9
<del>345</del>	F	Y	S	Ε	Z	D	В	/	$\rightarrow$	6	BELL	3	+	7	<b>⊕</b>
V	1-34- C	P	1-3	////// /L.F.//	<u> 5</u>	R	G	<b>D</b>	O	Ø	8		<u></u>	4	7
-2345 ///// LTRS	-234- K	-23-5 Q	-23 U	<u>-2</u>	-25 W	<u>-2-4-</u> J	-2-45 ////// FIGS/	-2345 ///// LTRS	<u>-234-</u>	-23-5 	- <u>23</u>	1	2 2	-2-4- L	-2-45 ///// FIGS
12345	12345 1234- 123-5 123   12 12-5 12-4- 12-45 12345 1234- 123-5 123   12 125 12-4- 12-45														
			1 Y	PE	AKK	ANG	EME	NI "F	(E	( WE	AIHE	.K )			

M 345	N 34-	H 3-5	SPACE	BLANK	T	G.R.//	O 45	345	9 34-	//////	////// SPACE //////	BLANK		,c.R./	9
X	F	Y	S	Ε	Z	D	В	/	!	6	///// BELL/ /////	3	<b>**</b>	\$	?
V	С	Р	ı	L.F.	L	R	G	• .	•	Ø	8	L.F//	)	4	&
LTRS	K	Q	U	Α	W	J	////// /FIGS/	LTRS	(	1	7	_	2	•	FIGS

TYPE ARRANGEMENT "RN" (COMMUNICATION)
FIGURE I

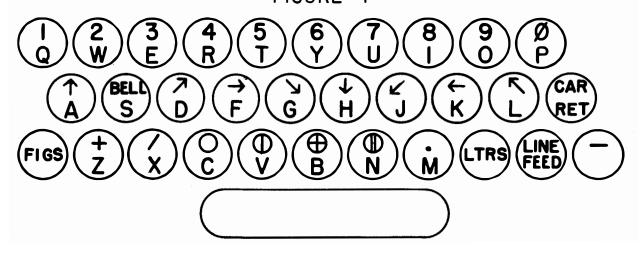
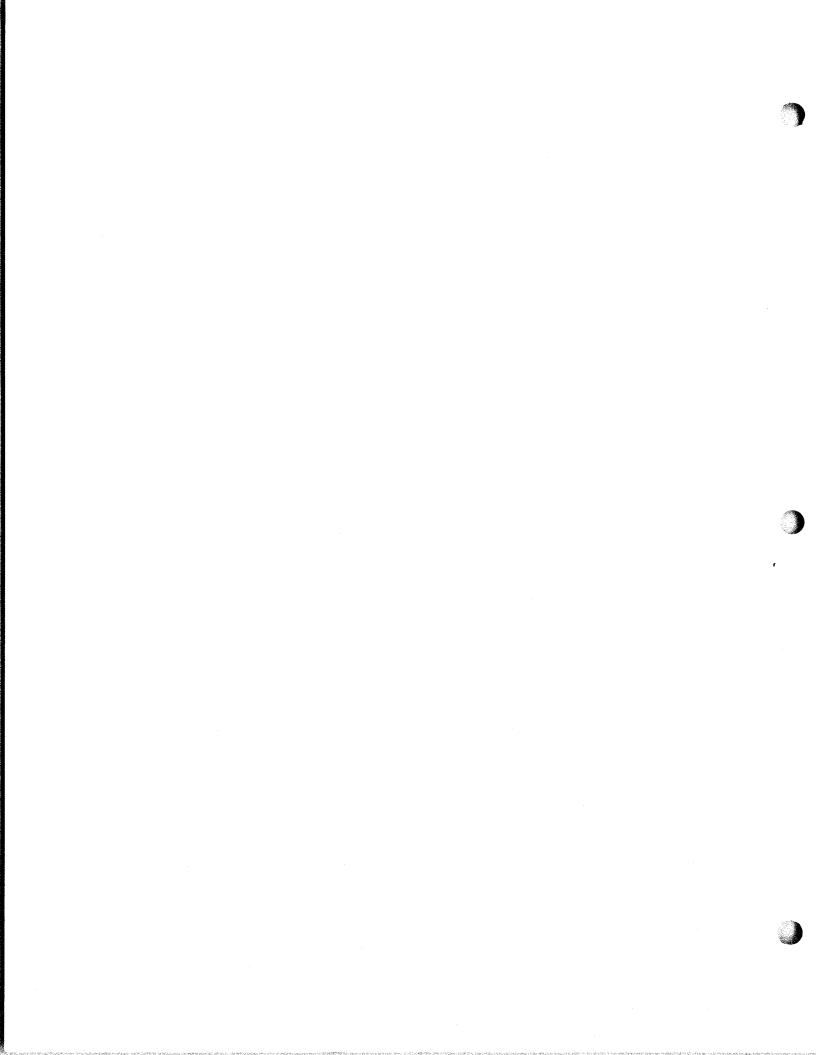


FIGURE 2



Temporary Correction T-2 to Instruction Book for Teletypewriter TT-47/UG, TT-48/UG, TT-69/UG, and TT-70/UG (NAVSHIPS 91393)

Title Page.

Add Contracts: NObsr 49182, NObsr 52088 and NObsr 52089

Page 1-1.

After paragraph 2.b.(1)(f) add the following note:

NOTE

AC Motor Type PD-17/U is replaced by AC Motor Type PD-17A/U starting with Serial Number 76 of Teletypewriter TT-47/UG.

After paragraph 2.b.(3)(f) add the following note:

NOTE

AC Motor Type PD-17/U is replaced by AC Motor Type PD-17A/U starting with Serial Number 76 of Teletypewriter TT-69/UG. Page 1-3. Delete paragraph 3.c.(2) and substitute the following:

(2) AC MOTOR (GOVERNED) PD-18/U. (See figure 1.)

- (a) The AC Motor, PD-18/U is series wound and is similar to the synchronous motor in its mounting arrangement.
- (b) A combined governor and fan are positioned on the motor shaft extension. The fan aids in controlling the temperature rise by drawing cooling air through the motor. A target for speed checking purposes is painted on the governor cover. The cover also serves to protect the governor mechanism. A screwdriver opening is provided in the cover to facilitate speed adjustments. Brush filter capacitors are provided within the motor end bells.
- (c) The entire AC Motor, PD-18/U is shielded to minimize radio interference. A shielded compartment on the underside of the motor, houses the governor resistor and capacitor, as well as a power leads electrical noise suppressor. A number of screened cutouts are provided in the motor shield housing through which air may circulate and the target may be viewed. A threaded plug in the housing may be removed to permit entry of a screwdriver when making speed adjustments.

Add paragraph 3.c.(3) as follows:

- (3) AC MOTOR (SYNCHRONOUS) PD-17A/U. (See figure 2.)
- (a) The AC Motor, PD-17A/U, is a wound stator, two pole, single phase, capacitor start, synchronous motor. A combination handwheel and fan is mounted on one end of the motor shaft. A motor starting relay and capacitor, together with a thermal cutout switch are mounted in a compartment on the underside of the motor. The thermal

cutout switch (manually reset) serves to protect the motor windings from excessive heating.

(b) The motor proper is supported by a cradle to which it is held by straps at each end. Resilient mounts on the hubs of the motor end bells reduce transmission of vibration to the Keyboard.

Page 1-10. Delete figure 1-10.

Page 2-40. Change paragraph 5.b. to read as follows:

(b) AC MOTOR (GOVERNED) PD-18/U. (See figures 1 and 3) The series governed motor is for use with single phase, 115 volts (plus or minus 10 per cent) alternating current, at a frequency of 50 to 60 cycles per second. It is a 1/20horsepower, 3600 rpm ball bearing motor which depends on an electro-mechanical governor for its speed regulation. The armature E-609, with a 48 segment commutator is wired in series with the two field windings, and the governor contacts E-606 and E-617. A 250 ohm, 40 watt resistor R-601 and a 0.5 mf capacitor C-602, are connected in parallel with the governor contacts. When the contacts are closed the resistor is shorted out. When the contacts are open the resistor is in series with the motor, to limit its operating current, and thus reduce its speed. The capacitor serves as a spark suppressor for the governor contacts. The combination fan and governor is mounted on one end of the motor shaft. The fan draws cooling air through the motor housing, and also serves as a mounting plate for the governor slip rings and for the governor contact mechansim (mounted on opposite sides of the fan). Connections to the two slip rings, which are wired to the

governor contacts, are made by means of two brushes E-601 and E-602, mounted on the ends of the motor housing. Normally the governor contact spring holds the governor contact E-606 against the contact screw E-617 (figure 2-78). When the motor shaft exceeds a predetermined speed, the centrifugal force developed on the governor contact overcomes briefly the pull of the governor spring, and the governor contact leaves the contact screw until the motor slows down. The tension on the contact spring may be adjusted to maintain the motor speed at 3600 rpm. In order to make this adjustment, means are provided to compare the motor speed with a standard. An aluminum cover fits against the side of the fan and encloses the governor contact mechanism. The outside of the cover is finished in white, with four black stripes equally spaced about its periphery. This serves as a target which should appear to stand almost still at 3600 rpm, when viewed through the moving shutter of a 120 vibrations per second tuning fork. The two motor brushes E-607 and E-608 are protected by 800 mmf capacitors C-601 and C-603 which are connected between the brushes and the grounded frame of the motor. These tend to by-pass any electrical noise created by the brushes as they make and break contact with the various segments of the armature commutator. The motor is wired in such a manner that the armature rotates counterclockwise when viewed from the governor end. The method of mounting the series motor is similar to the method of mounting the synchronous motor. The housing provided on the underside of the mounting bracket contains both the 250 ohm resistor

and 0.5 mf capacitor in the governor circuit as well as a power leads electrical noise suppressor. The purpose of the electrical noise suppressor in the motor power input circuit is to prevent any radio interference which may be generated by the motor from being radiated by the motor power leads. To prevent this disturbance from being radiated directly from any of the motor components or wiring, the entire AC Motor PD-18/U is enclosed by grounded metal housings with screened openings. The screening is to permit the circulation of cooling air through the motor and across the governor resistor and also to permit the target to be viewed when checking motor speed. A threaded plug which is provided in the governor shield housing may be removed to permit the insertion of a screwdriver when necessary to adjust the motor speed. Access to the compartment on the underside of the motor may be gained by removing a screw and lockwasher and sliding the bottom cover plate aside.

Page 2-43. Add the following paragraph after paragraph 5.b.

(c) AC MOTOR (SYNCHRONOUS) PD-17A/U. (See figures 2 and 4)
The synchronous motor is for use with single phase, 115
volt (plus or minus 10 per cent) alternating current, at a
frequency of 60 cycles per second (plus or minus 0.5 cycle).

It is a 1/20 horsepower, 3600 rpm, two pole, wound stator,
ball bearing motor, with a squirrel cage type rotor. The
stator has two windings, a main operating winding, and an
auxiliary winding. The auxiliary winding is in series
with a 43 mf a.c. electrolytic capacitor C-501, and with a
current operated motor starting relay K-501. The initial

starting current causes the relay to pull up and its contacts close the auxiliary winding circuit. As the rotor gains speed, the current flowing through the motor (and also the relay coil), decreases. When a predetermined current value is reached the relay armature is released, the relay contacts are opened, and the auxiliary winding circuit is disconnected from the line. The rotor E-501 continues to accelerate until it reaches synchronous speed (3600 rpm). The motor is wired in such a manner that the rotor rotates counterclockwise when viewed from the fan end. The starting relay and capacitor together with a thermal cutout switch S-501 are mounted in a compartment on the underside of the motor. The thermal cutout switch is in series with both the main and auxiliary motor windings, and if excessive current is drawn by the motor, (due, for example, to a blocked rotor), the switch will open the circuit. This is to prevent overheating and possible damage to the motor if it is stalled. The switch may be manually reset if tripped, by depressing its red button which projects upward through the motor mounting plate. There are two fans located within the motor housing, one at each end of the rotor. These draw cooling air in through the slots in the end bells and exhaust it through the slots in the motor housing. The end bells have rubber vibration mounts by means of which the motor sets in the ends of its mounting bracket. The rubber mounts are held in the bracket by means of mounting straps. The motor shaft has a tapped hole for use in fastening the intermediate shaft driving

helical gear. All end play in taken up by means of a conical shaped spring which bears against the outer race of one of the ball bearings. The motor mounting bracket is fastened to the Keyboard by means of four screws and lockwashers.

Page 7-10. Figure 7-1. Under SELECTOR LEVER GUIDE Change the requirement to read: With signal generator clutch disengaged, there should be some clearance between each selector lever and the low part of its cam.

Max. 0.010 inch

- Page 7-11. Figure 7-2. Delete figure 7-2 and substitute therefor figure 5 of this temporary correction.
- Page 7-12. Figure 7-3. Change the name ROCKER BAIL EXTENSION to read ROCKER EXTENSION in five places.

  Under INTERMEDIATE LEVER SPRING TENSION change the requirement to read:

CLUTCH DISENGAGED.

Min. 2 ozs.

Max. 4 ozs.

On the marking intermediate lever pull horizontally and as nearly parallel as possible to the path of the lever.

Under ROCKER CASE EXTENSION change the "To Check" portion to read: With generator shaft in stop position, gauge clearance at spacing intermediate lever. Rotate the shaft until the marking intermediate lever engages the flutter lever. Gauge the clearance at the marking intermediate lever.

Page 7-13. Figure 7-4. Under DETENT TOGGLE STOP BRACKET change the requirement to read: Clearance between engaging surfaces of spacing and marking intermediate levers and associated surfaces of oscillating lever should be equal within 0.004 inch.

Change the "To Check" to read: Rotate shaft until flutter lever is on high part of first cam and check clearance at marking intermediate lever. Continue rotation of shaft until flutter lever is on high part of next cam and check clearance at spacing intermediate lever.

Add the names ROCKER EXTENSION and MARKING INTERMEDIATE LEVER to the left figure.

Add the name SPACING INTERMEDIATE LEVER to the right figure.

Page 7-14. Figure 7-5. Change the name DETENT TOGGLE LEVER to DETENT LEVER in three places.

Add the name MARKING STOP just under the name SPACING STOP. Add the name MARKING INTERMEDIATE LEVER.

Under INTERMEDIATE LEVER STOP PLATE change the "To Check" to read: With clutch in stop position, measure clearance at spacing intermediate lever. Manually move oscillating lever to other position and check at marking intermediate lever.

Page 7-15. Figure 7-6. Under FLUTTER LEVER SPRING TENSION change the requirement to read: With the generator mechanism in stop position and the spacing intermediate lever held away from flutter lever, insert gauge between casting and break rod.

Min. 1 oz.

Max. 2-1/4 ozs.

to start the flutter lever moving.

Add the following names to the top part of the figure:
OSCILLATING LEVER, SPACING INTERMEDIATE LEVER, and
MARKING INTERMEDIATE LEVER.

Add the following names to the bottom part of the figure: OSCILLATING LEVER and FLUTTER LEVER.

- Page 7-16. Figure 7-7. After the "To Adjust" instructions add:

  USE GAUGE 151379
- Page 7-17. Delete figure 7-8 and substitute therefor figure 6 of this temporary correction.
- Page 7-18. Figure 7-9. Change CLUTCH THROWOUT PAWL SPRING TENSION to read: CLUTCH THROWOUT BAIL PAWL SPRING TENSION.

  Immediately below the requirement change the name

  THROWOUT PAWL to read: THROWOUT BAIL PAWL in two places.

  Under CLUTCH THROWOUT BAIL change the requirement to read: With the clutch in its stop position, throwout bail pawl in the bottom of its notch, clutch stop lever against clutch shoe lever, and clutch held disengaged.

  Some clearance between clutch shoe lever and clutch disk stop lug

  Max. 0.020
- Page 7-19. Figure 7-10. Under GENERATOR CONTACT change the words in parenthesis to read: (RIGHT AS VIEWED FROM REAR)

  After the adjusting instructions add: REPLACE CONTACT

  BOX COVER.
- Page 7-20. Figure 7-11. Change the name: CODE BAR RESET BAIL and/or

RESET BAIL to read: CODE BAR BAIL in eight places.

Change the title to read: CODE BAR BAIL MECHANISM.

Change the RESET BAIL ADJUSTING SCREW adjustment to read as follows:

## CODE BAR BAIL ADJUSTING SCREW

### REQUIREMENT

Clutch engaged. Rotate clutch 1/2 turn until eccentric follower is in extreme left hand position. Clearance between the code bar bail latch lever and code bar bail roller

Min. 0.004 inch

Max. 0.003 inch

#### TO ADJUST

Position the code bar bail adjusting screw with its lock nut loosened.

Page 7-21. Figure 7-12. Change the name: RESET BAIL to read: CODE BAR BAIL in nine places.

Change: RESET BAIL LATCH SPRING TENSION adjustment to read as follows:

# CODE BAR BAIL LATCH SPRING TENSION

### REQUIREMENT

Hold code bar bail to left to provide some clearance between code bar bail roller and latching surface of the code bar bail latch

Min. 1-1/2 ozs.

Max. 2 oz.

to start the latch moving.

Page 7-22. Figure 7-13. In the lower part of the figure change the

name: CODE LEVER BAIL EXTENSION to read: CODE BAR BAIL EXTENSION.

Under NON-REPEAT LEVER requirement delete the following lines: GAUGE THE CLEARANCE WHILE ROTATING THE GENERATOR SHAFT WITH A KEY HELD DEPRESSED, and substitute the following therefor: DEPRESS A KEY. ROTATE SHAFT ONCE UNTIL CLUTCH DISENGAGES. LET UP ON KEYLEVER UNTIL SURFACES TO BE MEASURED ARE IN LINE.

Page 7-23. Figure 7-14. Delete figure 7-14 and substitute therefor figure 7 of this temporary correction.

Page 7-24. Figure 7-15. Change the name: RESET BAIL to read: CODE BAR BAIL in four places. Also change title to read CODE BAR MECHANISM.

Under CODE BAR SPRING TENSION requirement change the first two lines to read: LETTERS KEYLEVER DEPRESSED. GENERATOR CLUTCH ENGAGED.

Under CLUTCH TRIP BAR SPRING TENSION change the requirement to read: LETTERS KEYLEVER DEPRESSED. GENERATOR CLUTCH ENGAGED

MIN. 2 ozs.

MAX. 5 ozs.

TO START CLUTCH TRIP BAR MOVING

Add the following to Figure 7-15, With a line also connected to the indicating arrow for spring tension.

### LOCK BAR SPRING

Requirement

Generator Clutch disengaged

Lock Bar Keylever held depressed

Min. 5 ozs.

Max. 9 ozs.

to start the lock bar (front) moving.

- Page 7-26. Figure 7-17. Change the requirement to read: THE SPACE

  BAR SHOULD BE FREE ON ITS PIVOTS AND HAVE SOME END PLAY,

  ALSO FREE FROM BINDING IN SLOTS OF KEYTOP GUIDE PLATE.

  MAX. 0.010 inch
- Page 7-27. Figure 7-18. Delete figure 7-18 and substitute therefor figure 8 of this temporary correction.
- Page 7-29. Figure 7-20. Under TIME DELAY LATCH LEVER AND CONTACT

  PAWL change the number (2) adjusting instruction to read:

  IF THE REQUIREMENT CANNOT BE MET WITH RATCHET WHEEL

  MOVEMENT, MOVE THE LATCH PAWL TO FRONT OR REAR WITH ITS

  PIVOT SCREW NUT LOOSENED.
- Page 7-32. Figure 7-23. Under INTERMEDIATE GEAR BRACKET add the following sentence to the adjusting instructions:

  ALIGN GEARS AT THIS TIME.
- Page 7-35. Figure 7-26. Under LOCK FUNCTION ARM begin the requirement as follows:

  WITH KEYBOARD LOCK LEVER UP, LOCK PLUNGER......IN ITS
  GUIDE.
- Page 7-39. Figure 7-30. Delete figure 7-30 and substitute therefor figure 9 of this temporary correction.
- Page 7-40. Figure 7-31. Delete figure 7-31 and substitute therefor figure 10 of this temporary correction.
- Page 7-41. Delete page 7-41 and substitute therefor figures 11 and 12 of this temporary correction.
- Page 7-42. Figure 7-33. Under SELECTOR MAGNET BRACKET change the

clearance values to read:

Min. 0.010 inch

Max. 0.025 inch

Under LOCK LEVER GUIDE requirement change the requirement to read: CLEARANCE BETWEEN BOTTOM OF SLOT IN

MARKING LOCK LEVER GUIDE AND TOP EDGE OF MARKING LOCK

LEVER

MIN. 0.004 INCH

MAX. 0.015 INCH

Page 7-43. Figure 7-34. Change the requirement to read: SELECTOR

CLUTCH DISENGAGED, CAM SLEEVE ASSEMBLY SHOULD HAVE SOME

END PLAY

MAX. 0.008 INCH

TO CHECK

HOLD CLUTCH DISENGAGED WITH FINGER AND THUMB AND NOTE END PLAY AT CLUTCH MEMBER BY ALTERNATELY PUSHING AND PULLING WITH SAME FINGERS.

- Page 7-44. Figure 7-35. Under COMMON TRANSFER LEVER SPRING TENSION requirement, the first statement should read as follows:

  TRANSFER LEVERS IN SPACING POSITION (TOWARD FRONT OF UNIT)

  Under TRANSFER LEVER SPRING TENSION requirement, the first statement should read: TRANSFER LEVERS HELD IN SPACING POSITION (TOWARD FRONT OF UNIT)
- Page 7-45. Figure 7-36. At the top left side of the figure directly under the name SHIFT BAR INNER STEP add the name TRANSFER LEVERS. On top of the six vertical levers from left to right add the numbers 1, 2, C, 3, 4, 5.

  Under the requirement for SELECTOR LEVER SPRING TENSION,

add the following statement: CHECK ALL FIVE SELECTOR LEVER SPRINGS.

Under the requirement for SELECTOR PUSH LEVER SPRING TENSION add the following: CHECK ALL FIVE PUSH LEVER SPRINGS.

Page 7-46. Figure 7-37. Immediately above the six vertical levers add the name: TRANSFER LEVERS. From left to right number the levers as follows: 1, 2, C, 3, 4, 5.

Under the requirement for SHIFT LEVER DRIVE ARM, change the clearance to read: SOME CLEARANCE MAX. 0.025 INCH ON CLOSEST LEVER.

Page 7-47. Figure 7-38. Change the name "Y" LEVERS to read:

TRANSFER LEVERS

From left to right add the following numbers at the top of the six transfer levers 1, 2, C, 3, 4, 5.

Under SHIFT LEVER LINK GUIDE change the "To Check" portion to read: MOVE THE SHIFT BARS TO THE SPACING POSITION (FRONT). MOVE THE SHIFT LEVER LINK SO THAT THE FRONT SHIFT LEVER IS WITHIN

MIN. 0.006 INCH

MAX. 0.020 INCH

FROM THE SHOULDER OF THE NEAREST SHIFT BAR. MANUALLY HOLD THE SHIFT BARS TO THE MARKING POSITION (REAR) AND MOVE THE CODE BARS TO THE MARKING POSITION. THE REAR SHIFT LEVER SHOULD BE WITHIN

MIN. 0.006 INCH

MAX. 0.020 INCH

FROM THE SHOULDER ON THE NEAREST SHIFT BAR.

- Page 7-48. Figure 7-39. Delete figure 7-39 and substitute therefor figure 13 of this temporary correction.
- Page 7-49. Figure 7-40. Under STOP ARM YIELD SPRING requirement add the following: SELECTOR CLUTCH ENGAGED.
- Page 7-50. Figure 7-41. Under CODE BAR CLUTCH LATCH LEVER SPRING
  TENSION change the requirement to read: CLUTCH TURNED
  TO STOP POSITION AND LATCH LEVER UNLATCHED
  MIN. 5 ozs.

MAX. 6-3/4 ozs.

TO MOVE LATCH LEVER FROM LUG. THIS REQUIREMENT ALSO APPLIES TO THE FUNCTION CLUTCH, SPACING CLUTCH, LINE-FEED CLUTCH, AND TYPEBOX CLUTCH.

Under TRIP SHAFT LEVER SPRING TENSION, change the requirement to read: TRIP SHAFT LEVER ON LOW PART OF CAM.

CODE BAR CLUTCH ENGAGED. ROTATE 1/4 TURN

MAX. 2 ozs.

MIN. 1 oz.

TO START LEVER MOVING.

- Page 7-51. Figure 7-42. Add the name ROLLER to the roller on the cam follower arm.
- Page 7-52. Figure 7-43. Delete figure 7-43 and substitute therefor figure 14 of this temporary correction.
- Page 7-53. Figure 7-44. Under SPACING CLUTCH TRIP LEVER SPRING

  TENSION, change the first sentence of the requirement
  to read: SPACING CLUTCH ENGAGED. ROTATE CLUTCH UNTIL

  TRIP LEVER CLEARS STOP LUG.
- Page 7-54. Figure 7-45. Delete figure 7-45 and substitute therefor figure 15 of this temporary correction (note that
  the typebox clutch is a one stop clutch)

Page 7-55. Figure 7-46. Change the TYPEBOX CLUTCH TRIP LEVER adjustment to read:

# (1) REQUIREMENT

CLUTCH TRIP SHAFT CAM FOLLOWER ROLLER (SEE FIGURE 7-42.) ON THE LOWEST SURFACE OF CAM (LOCATED ON CODE BAR CLUTCH). CLEARANCE BETWEEN INNER FACE OF TYPEBOX CLUTCH TRIP LEVER AND THE CLUTCH DISK STOP LUG MIN. 0.065 INCH

MAX. O.OSO INCH

TO ADJUST

LOOSEN CLAMP SCREW AND POSITION STOP

### (2) REQUIREMENT

WHEN POSITIONING THE TRIP ARM DETERMINE THAT THE LATCH HAS SOME SIDE PLAY

MAX. 0.008 INCH

TO ADJUST

POSITION THE CLUTCH TRIP ARM ON ITS SHAFT WITH THE CLAMP SCREW LOOSENED.

Figure 7-47. In requirement (1) change the required clearances to read: 0.055 inch to 0.075 inch. Change requirement (2) to read: WITH THE CLUTCH ENGAGED, THE SMALLEST GAP BETWEEN ANY CLUTCH SHOE LEVER AND ITS STOP LUG SHOULD BE 0.055 INCH TO 0.075 INCH GREATER THAN THE LARGEST GAP WHEN THE CLUTCH IS DISENGAGED.

- Page 7-56. Figure 7-48. Under CLUTCH SHOE LEVER SPRING TENSION requirement, charge the second sentence of the requirement to read: HOLD CAM DISK TO PREVENT TURNING.
- Page 7-60. Figure 7-52. Add the following name to the unnamed code bars beginning at top: SUPPRESSION BAR, #1 CODE

BAR, #2 CODE BAR.

Change the name EXTENSION to read: LINK EXTENSION

Under VERTICAL POSITIONING LEVER SPRING TENSION requirement change the name: UPPER CODE BAR, in the second line,
to read SUPPRESSION CODE BAR.

- Page 7-64. Figure 7-56. In the bottom part of the figure, change the name: SHIFT SLIDE DRIVE LINKAGE REVERSING SLIDE to read: HORIZONTAL MOTION REVERSING SLIDE.
- Page 7-67. Figure 7-59. Under SPACING DRUM STOP ARM change the
  "To Adjust" portion to read: POSITION THE STOP ARM ON
  THE RATCHET WHEEL, APPROXIMATELY IN THE MIDDLE OF ITS
  ADJUSTING RANGE, WITH ITS MOUNTING SCREWS LOOSENED.
- Page 7-68. Figure 7-60. Change the 3/16 inch clearance to read: 5/32 inch, in two places on the figure.
- Page 7-70. Figure 7-62. Under CARRIAGE RETURN LATCH BAIL, change the requirement to read: CARRIAGE FULLY RETURNED.

  SOME CLEARANCE BETWEEN RICHT HAND SIDE OF CARRIAGE RETURN LEVER AND LEFT EDGE OF THE CARRIAGE RETURN LATCH MAX. 0.010 INCH
- Page 7-71. Figure 7-63. In the left-hand upper portion of the figure add names to the four remaining unnamed function bars from left to right: UNSHIFT ON SPACE, FIG., LTRS., AUTO. CR.

Under the name: RIGHT SIDE FRAME, add: (REAR VIEW)

Page 7-72. Figure 7-64. Under TRANSFER SLIDE SPRING TENSION, change the spring tensions to read:

MIN. 3-1/2 ozs.

MAX. 4-1/2 ozs.

Page 7-74. Figure 7-66. Change the name: SPACING CUTOUT BAIL to read: SPACING CUTOUT TRANSFER BAIL.

Change the RIGHT MARGIN adjustment to read:

## (1) REQUIREMENT

(WITHOUT AUTOMATIC CR-LF TRIP ARM)

TYPEBOX CARRIAGE IN POSITION TO PRINT CHARACTER

ON WHICH SPACING IS DESIRED.

# (2) REQUIREMENT

(WITH AUTOMATIC CR-LF TRIP ARM)

TYPEBOX CARRIAGE IN POSTION TO PRINT ONE SPACE

AFTER CHARACTER ON WHICH AUTOMATIC CR-LF IS

DESIRED.

CLEARANCE BETWEEN UPPER EDGE OF SPACING CUTOUT
LEVER AND CUTOUT TRANSFER BAIL WHEN THE CUTOUT
TRANSFER BAIL IS HELD IN ITS EXTREME UPPER POSITION.
MIN. 0.010

MAX. 0.025

Under DECELLERATING SLIDE BELL CRANK SPRING TENSION requirement add the following: CHECK LEFT AND RIGHT.

Page 7-77. Figure 7-69. Under PRINTING TRACK change the clearance to read:

MIN. 0.010

MAX. 0.020

Page 7-78. Figure 7-70. Under PRINTING HAMMER STOP BRACKET, change the requirement to read: HAMMER OPERATING BAIL AGAINST ITS STOP. PLAY IN THE PRINTING CARRIAGE AND TYPEBOX TAKEN UP TOWARD THE REAR. CLEARANCE BETWEEN TYPE PALLETS AND END OF PRINTING HAMMER IN THREE POSITIONS.

LEFT, MIDDLE, AND RIGHT OF UNIT.

MIN. O.O15 INCH

MAX. 0.050 INCH

Add the name: PRINTING HAMMER BAIL PIVOT STUD

Page 7-80. Figure 7-72. Under RIBBON FEED LEVERS SPRING TENSION change the requirement to read: FEED LEVERS DISENGAGED

MIN. 3/4 oz.

MAX. 2 ozs.

TO START LEVERS MOVING CHECK LEFT AND RIGHT

Under RIBBON UNIT FEED LEVER BAIL BRACKET change the first

part of the requirement to read: TYPEBOX CLUTCH DISENGAGED.

LEFT RIBBON REVERSE LEVER IN ITS UPPER POSITION. STOP

BRACKET IN ITS EXTREME REAR POSITION. INNER FEED LEVER

......THE STOP BRACKET.

Under RIBBON RATCHET WHEEL FRICTION SPRING TENSION, change the requirement to read: FEED LEVER DISENGAGED

MIN. 3-1/2 ozs.

MAX. 4-1/2 ozs.

TO START RATCHET WHEEL ROTATING. CHECK LEFT AND RIGHT.

Page 7-86. Figure 7-79. Under HORIZONTAL STOP SLIDE SPRING TENSION requirement, change the second line of the spring tensions to read: MIN. 2 ozs; MAX. 3 ozs.

FOR MIDDLE SLIDE

Under AUTOMATIC CARRIAGE RETURN ARM, change the first and second line of the requirement to read: CARRIAGE IN POSITION

TO PRINT THE 72nd. CHARACTER.

Page 7-87. Figure 7-80. Under PAPER STRAIGHTENER LEVER SPRING TENSION, change the requirement to read: Min. 1-1/2 ozs.

MAX. 3 ozs.

Page 7-96. Figure 7-90. Under START MAGNET CORE requirement change the clearance to read:

MIN. 0.0015 INCH

MAX. 0.005 INCH

- Page 7-98. Figure 7-92. Delete figure 7-92 and substitute therefor figure 16 of this temporary correction.
- Page 7-100. Table 7-3 For Teletype part number change the winding data as follows: Wire Size Change to No. 34; Turns Change to 4000; D-C Res. Ohms Change to 190
- Page 7-143 & 7-144 Figure 7-136. In the upper left-hand corner of the figure under AC Motor, Synchronous, add the following code: PD-17/U

At the left-hand center portion of the figure delete the drawing under AC Motor, Series Governed, and substitute therefor figure 17 of this temporary correction.

Add to figure 7-136, figure 18 of this temporary correction.

Page 7-145 & 7-146. Figure 7-137 At the lower right-hand corner of the figure under the circular drawing with the 500 series numbers representing a motor, add the title and code:

AC MOTOR (SYNCHRONOUS) PD-17/U

Delete the circular drawing with 600 series numbers and

substitute therfor figure 19 of this temporary correction.

Add to the figure, figure 20 of this temporary correction.

- Page 7-111. Add figure 21 of this temporary correction to this page.
- Page 7-112. Figure 7-107. Delete this figure and substitute therefor figure 22 of this temporary correction.

Change items in Table 8-4 in accordance with pages 40 through 47 of this temporary correction.

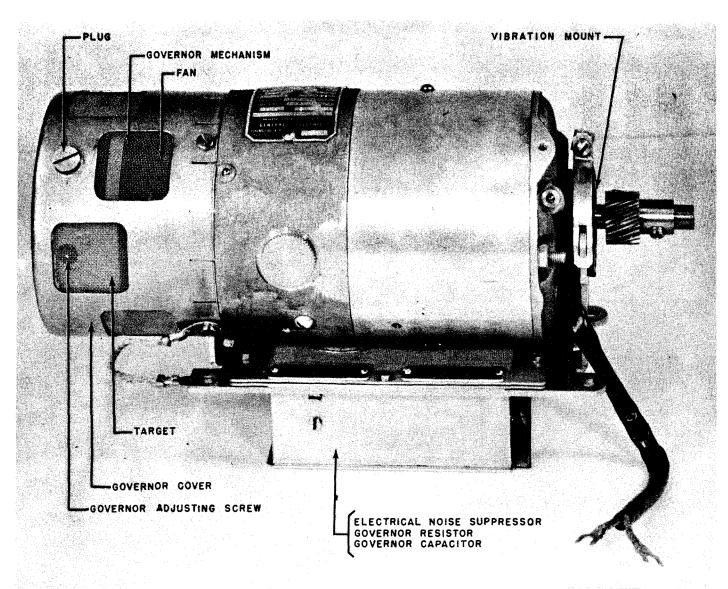
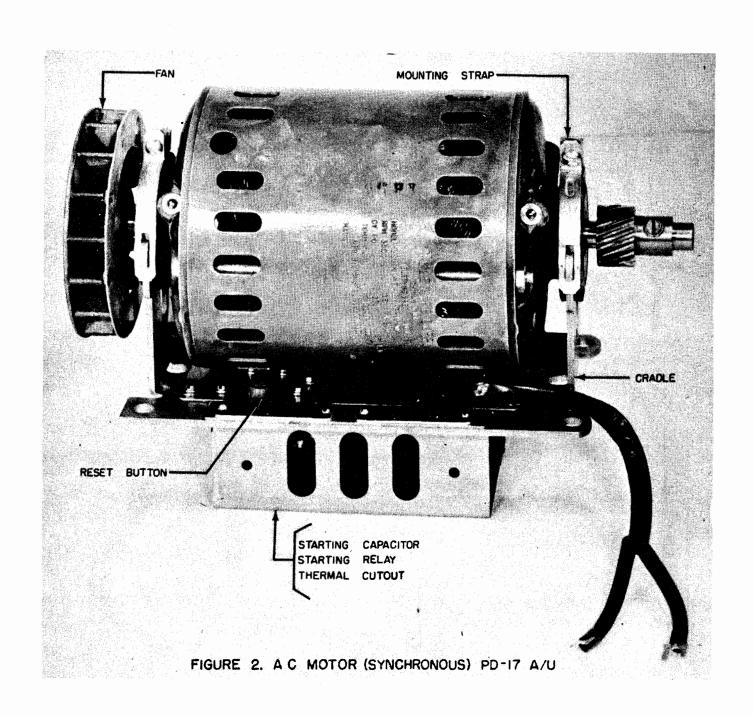


FIGURE I. A C MOTOR (GOVERNED) PD-18/U



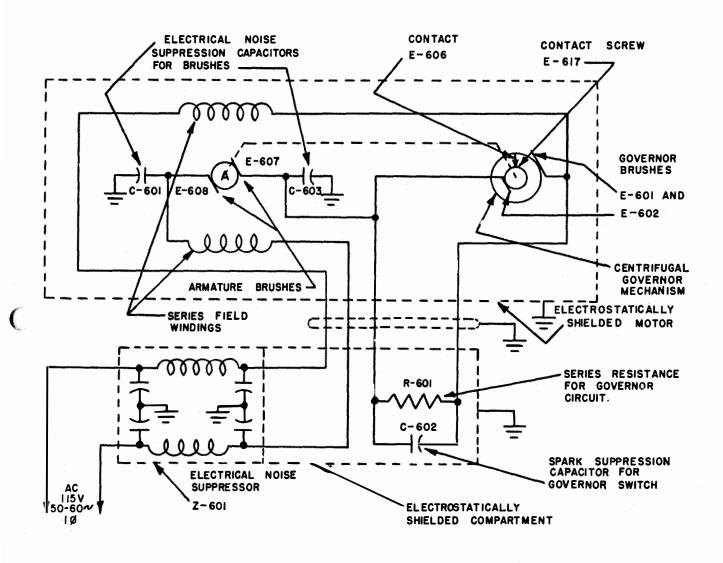


FIGURE 3. AC MOTOR (GOVERNED) PD-18/U, SCHEMATIC WIRING DIAGRAM

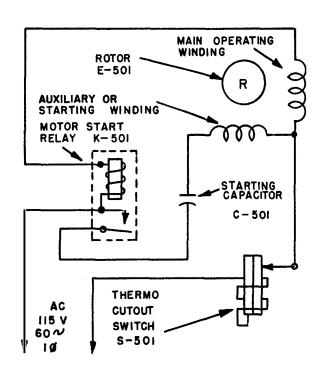
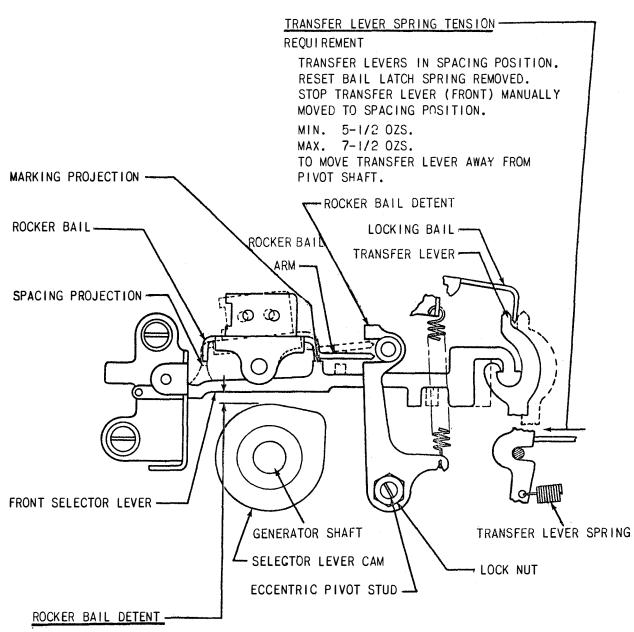


FIGURE 4. AC MOTOR(SYNCHRONOUS)
PD-17A/U SCHEMATIC WIRING DIAGRAM



REQUIREMENT

CLEARANCE BETWEEN THE ROCKER BAIL ARM AND BOTH THE MARKING AND THE SPACING PROJECTIONS OF THE SELECTOR LEVERS SHOULD BE EQUAL WITHIN 0.005 INCH. TO CHECK

ROTATE THE CAM SLEEVE UNTIL THE FRONT SELECTOR LEVER IS OPPOSITE THE LOW PART OF THE CAM. WITH THE FRONT SELECTOR LEVER IN THE MARKING (LEFT) POSITION, AND THE ROCKER BAIL ARM AGAINST THE LOWER STOP OF ITS DETENT, HOLD THE SELECTOR LEVER LIGHTLY UP AGAINST THE ROCKER BAIL AND GAUGE THE CLEARANCE BETWEEN THE SELECTOR LEVER AND THE CAM. SHIFT THE ROCKER BAIL ARM AGAINST THE UPPER STOP OF ITS DETENT AND HOLD THE FRONT SELECTOR LEVER TO THE RIGHT AND UP SO THAT THE SPACING PROJECTION TOUCHES THE ROCKER BAIL. GAUGE THE CLEARANCE BETWEEN THE SELECTOR LEVER AND THE CAM. THESE TWO CLEARANCES SHOULD BE EQUAL WITHIN 0.005 INCH.

## TO ADJUST

EQUALIZE CLEARANCES BY ROTATING THE ECCENTRIC PIVOT STUD OF THE DETENT WITH ITS LOCK NUT LOOSENED. KEEP THE HIGH PART OF THE ECCENTRIC TOWARD GENERATOR SHAFT.

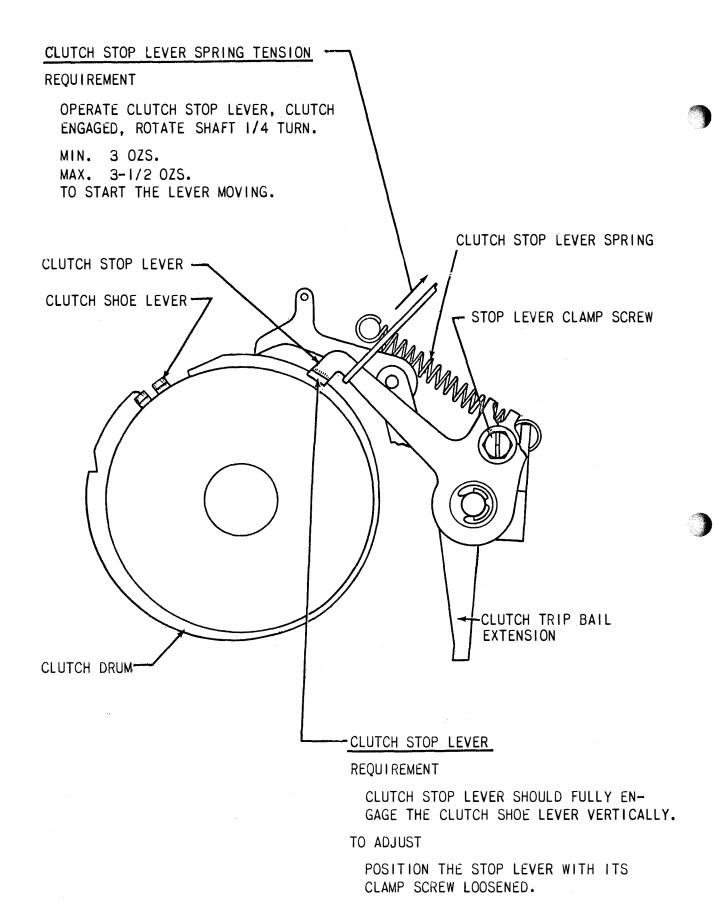
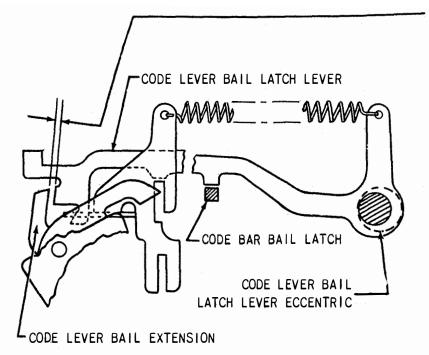


FIGURE 6



# CODE LEVER BAIL LATCH LEVER ECCENTRIC

#### **REOUIREMENT**

KEY LEVER WITH SHORTEST DOWNWARD STROKE FULLY DEPRESSED. CLEARANCE BETWEEN FRONT VERTICAL SURFACE OF THE CODE LEVER BAIL EXTENSION AND THE STEP ON THE REAR END OF THE CODE LEVER BAIL LATCH LEVER.

MIN. 0.025 INCH MAX. 0.050 INCH

## TO ADJUST

ROTATE THE CODE LEVER BAIL LATCH LEVER ECCENTRIC. KEEP HIGH PART OF ECCENTRIC UPWARD AND TOWARD THE FRONT. MAKE CERTAIN THERE IS SOME CLEARANCE BETWEEN THE CODE BAR BAIL LATCH LEVER AND THE CODE BAR BAIL LATCH.

FIGURE 13A. KEYBOARD, NON-REPEAT MECHANISM

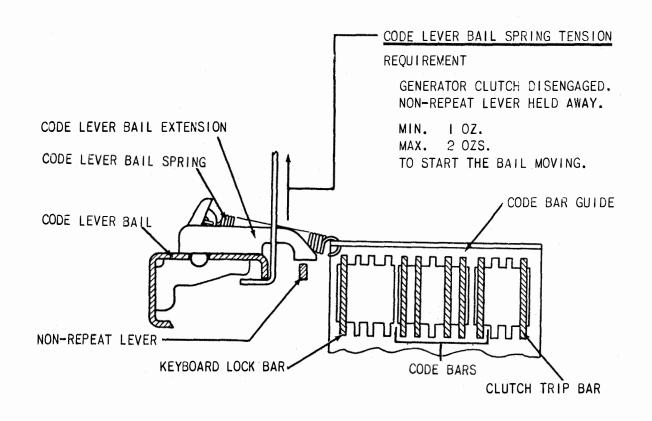
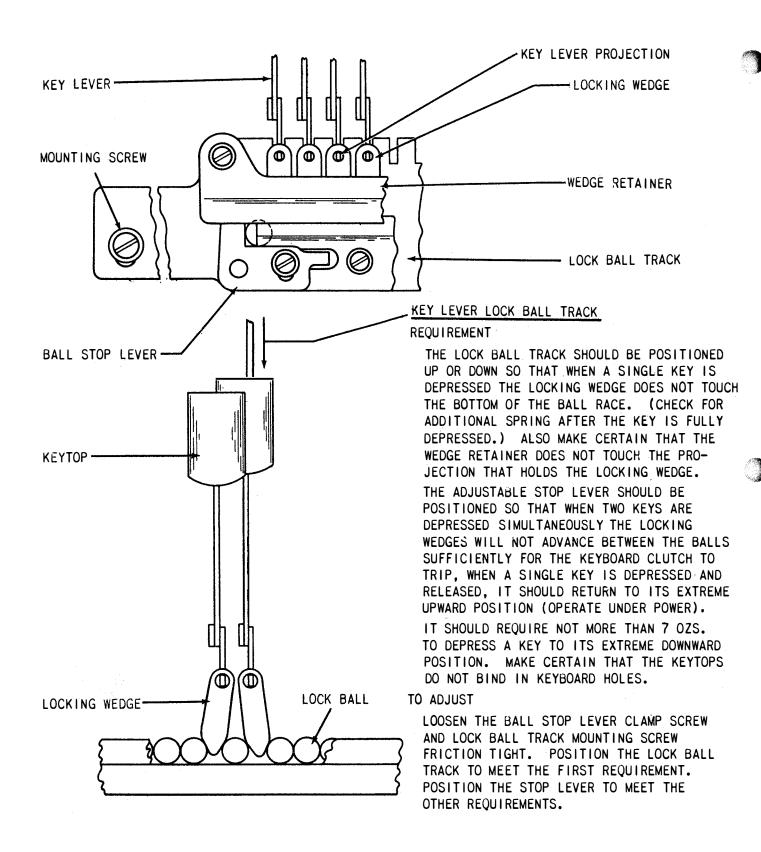
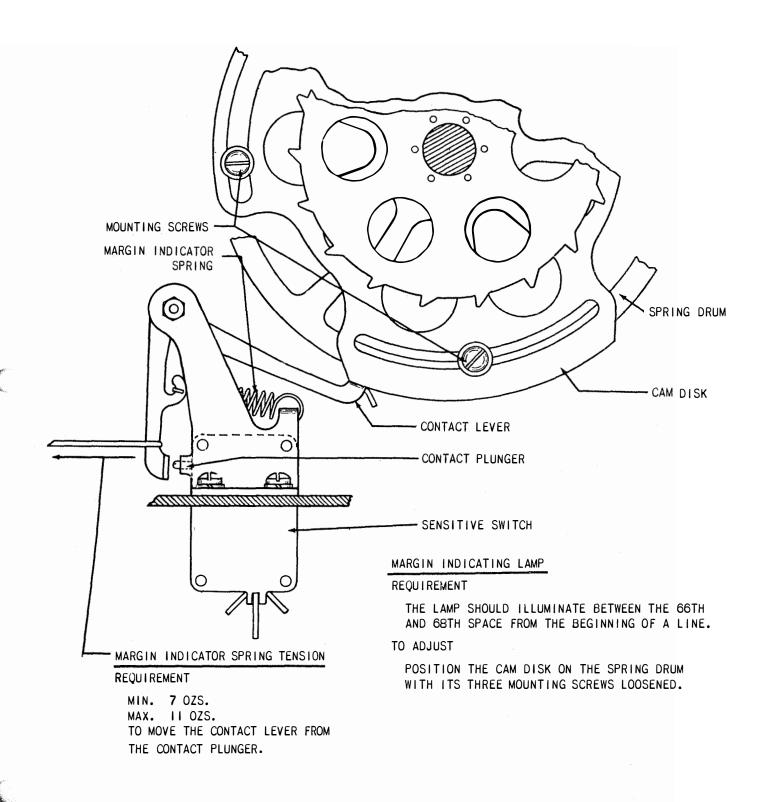


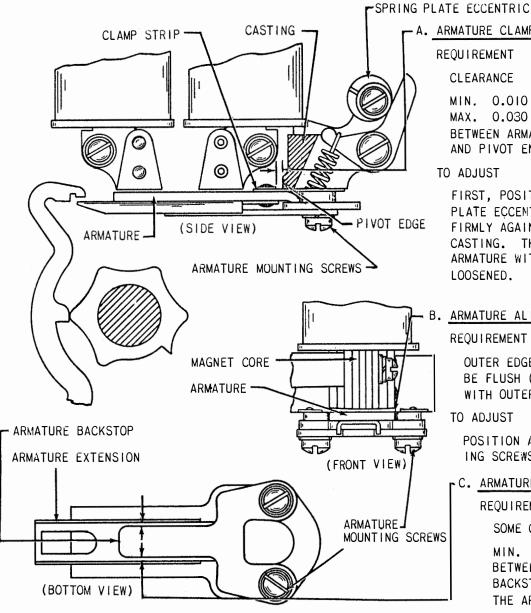
FIGURE 7





#### d. TYPING UNIT

NOTE TO FACILITATE MAKING THE FOLLOWING ADJUSTMENTS, REMOVE THE SELECTOR MAGNET ASSEMBLY.



# -A. ARMATURE CLAMP STRIP

REQUIREMENT

**CLEARANCE** 

MIN. 0.010 INCH MAX. 0.030 INCH BETWEEN ARMATURE CLAMP STRIP AND PIVOT END OF CASTING.

#### TO ADJUST

FIRST, POSITION ARMATURE SPRING PLATE ECCENTRIC TO HOLD ARMATURE FIRMLY AGAINST PIVOT EDGE OF CASTING. THEN, POSITION ARMATURE WITH MOUNTING SCREWS LOOSENED.

# B. ARMATURE ALIGNMENT

#### REQUIREMENT

OUTER EDGE OF ARMATURE SHOULD BE FLUSH (WITHIN 0.010 INCH) WITH OUTER EDGE OF MAGNET CORE.

# TO ADJUST

POSITION ARMATURE WITH MOUNT-ING SCREWS LOOSENED.

# r.C. ARMATURE BACKSTOP ALIGNMENT

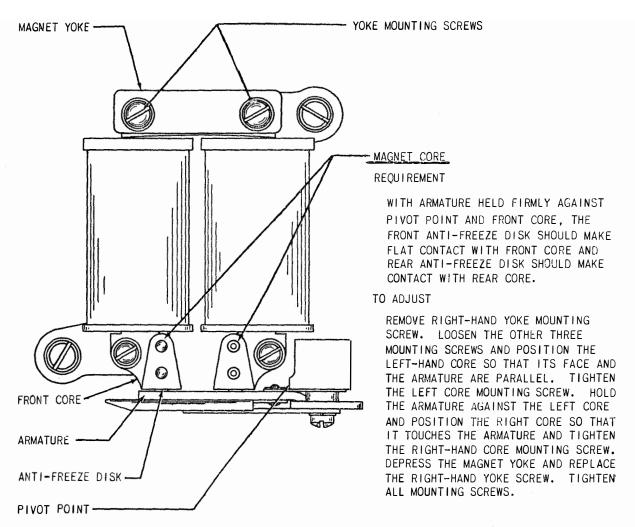
### REQUIREMENT

#### SOME CLEARANCE

MIN. O.OIO INCH BETWEEN THE SIDES OF THE BACKSTOP AND THE SIDES OF THE ARMATURE.

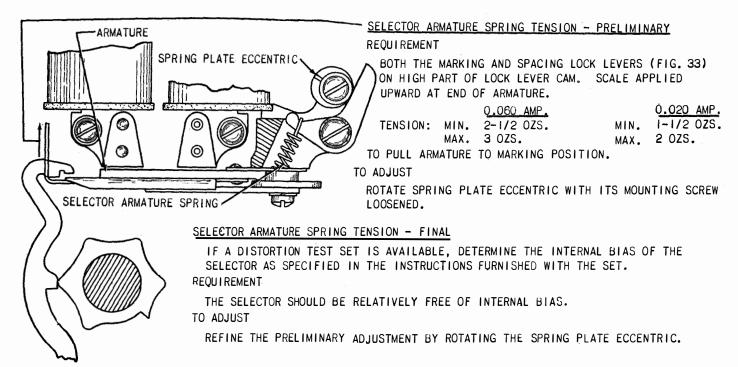
## TO ADJUST

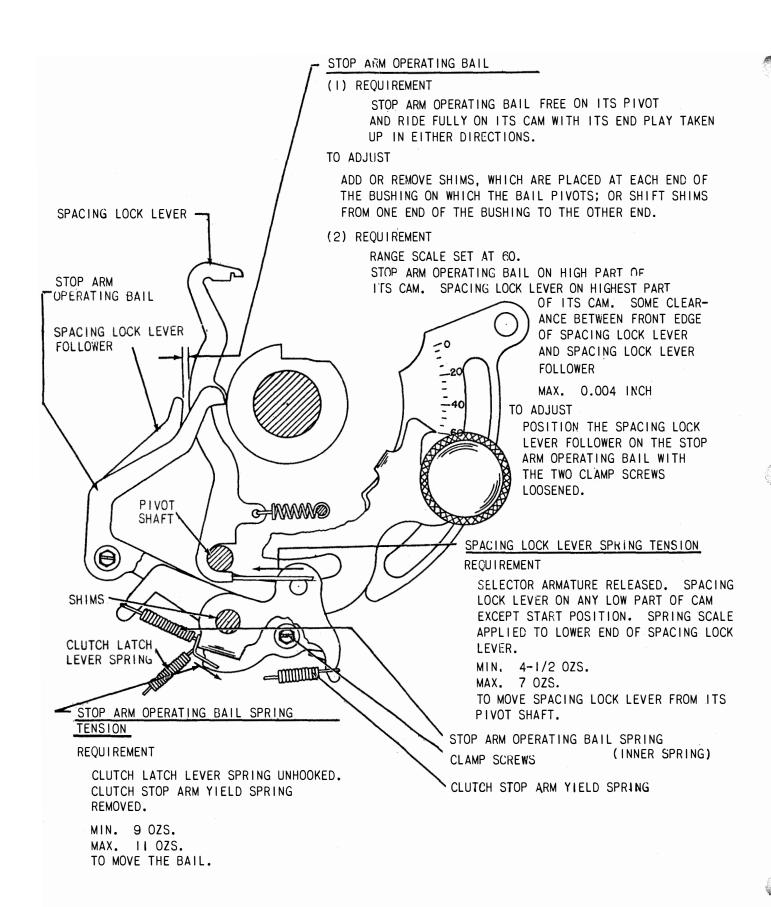
POSITION BACKSTOP WITH ARMATURE MOUNTING SCREWS LOOSENED.

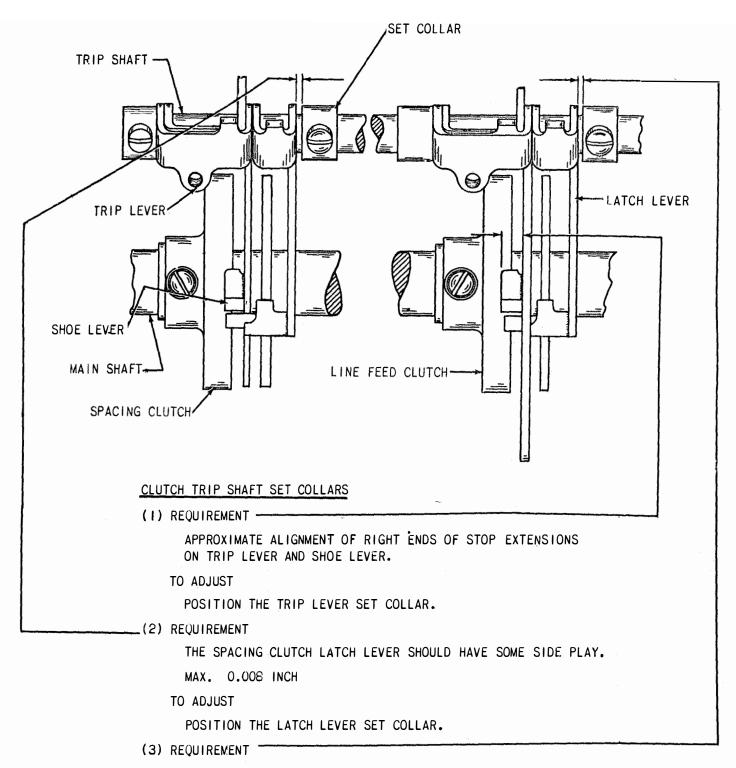


NOTE
REPLACE THE SELECTOR MAGNET ASSEMBLY.

FIGURE II







POSITION THE TRIP LEVER SET COLLAR SO THAT THE TRIP LEVER HAS SOME PLAY.

MAX. 0.008 INCH

FIGURE 14

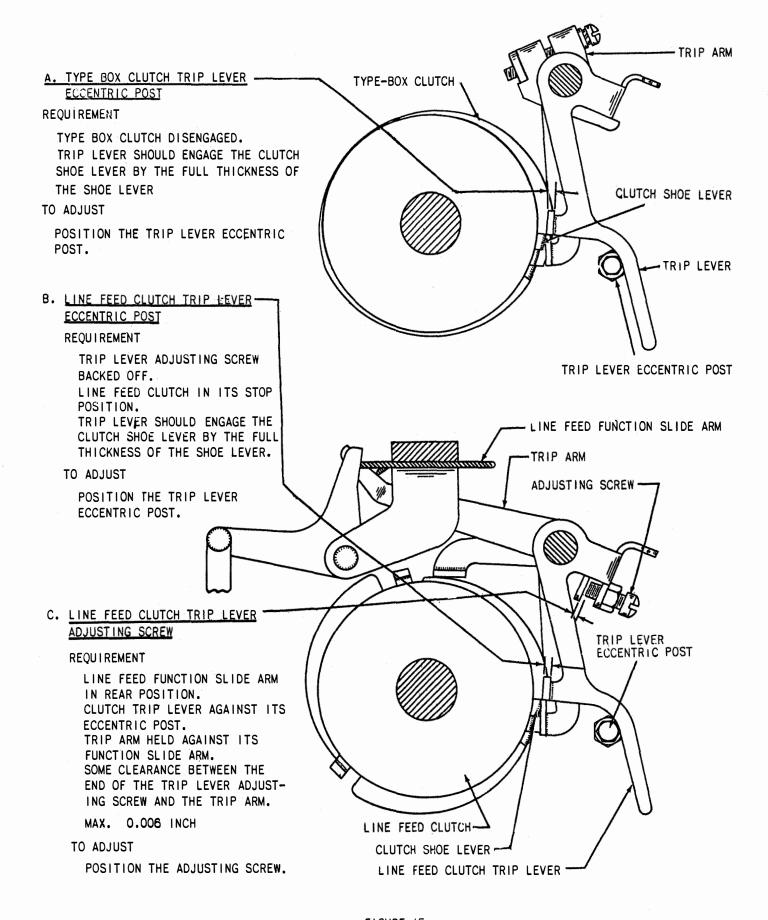
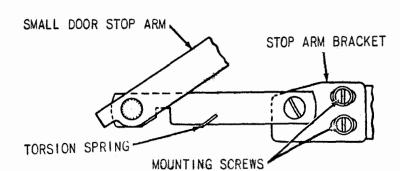
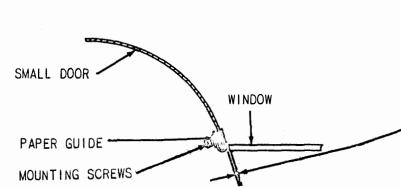
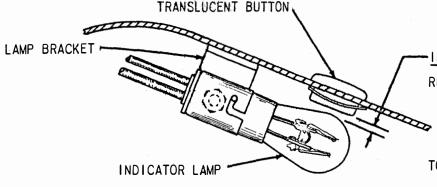


FIGURE 15







# SMALL DOOR STOP ARM

#### **REOUIREMENT**

STOP ARM SHOULD BE FREE OF BINDS WHEN DOOR IS OPENED OR CLOSED.

### TO ADJUST

LOOSEN THE STOP ARM BRACKET MOUNTING SCREWS. CLOSE THE DOOR. DISCONNECT THE TORSION SPRING. ALIGN STOP ARM FOR FREENESS AND TIGHTEN MOUNTING SCREWS WITH DOOR CLOSED. REPLACE TORSION SPRING.

## WINDOW AND PAPER GUIDE

## (I) REQUIREMENT

THE BOTTOM EDGE OF THE PAPER GUIDE SHOULD BE FLUSH WITH THE BOTTOM EDGE OF THE WINDOW.

## TO ADJUST

POSITION THE PAPER GUIDE WITH ITS MOUNTING SCREWS LOOSENED.

## (2) REQUIREMENT

THE SMALL DOOR SHOULD BARELY CLEAR THE WINDOW WHEN THE DOOR IS OPENED OR CLOSED.

#### TO ADJUST

POSITION WINDOW WITH ITS RETAINER SCREWS LOOSENED.

## INDICATOR LAMP

# **REQUIREMENT**

CLEARANCE BETWEEN INDICATOR LAMP AND TRANSLUCENT BUTTON APPROXI-MATELY 1/16 INCH.

## TO ADJUST

POSITION LAMP HOLDER ON ITS BRACKET WITH ITS MOUNTING SCREWS LOOSENED.

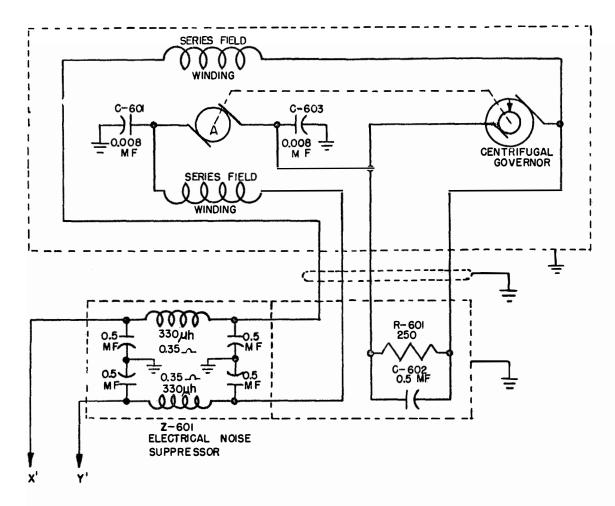


FIGURE 17. AC MOTOR, GOVERNED, PD- 18/U

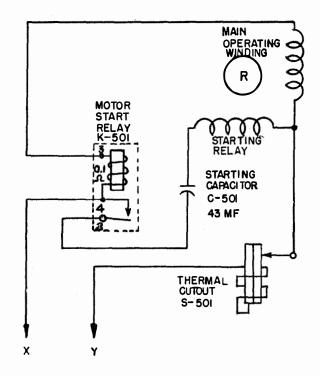


FIGURE 18. AC MOTOR, SYNCHRONOUS, PD-17A/U

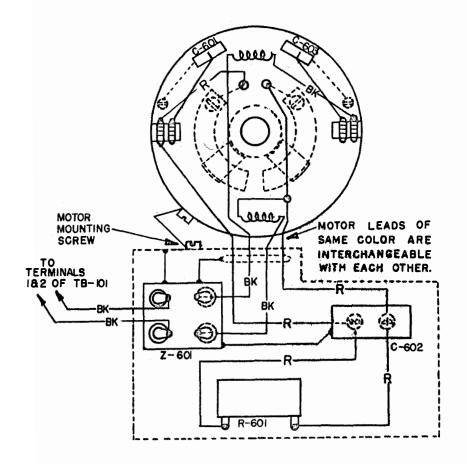


FIGURE 19. AC MOTOR, GOVERNED, PD-18/U

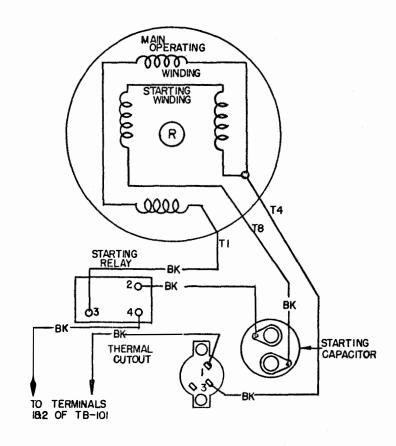


FIGURE 20. A C MOTOR, SYNCHRONOUS, PD-17A/U

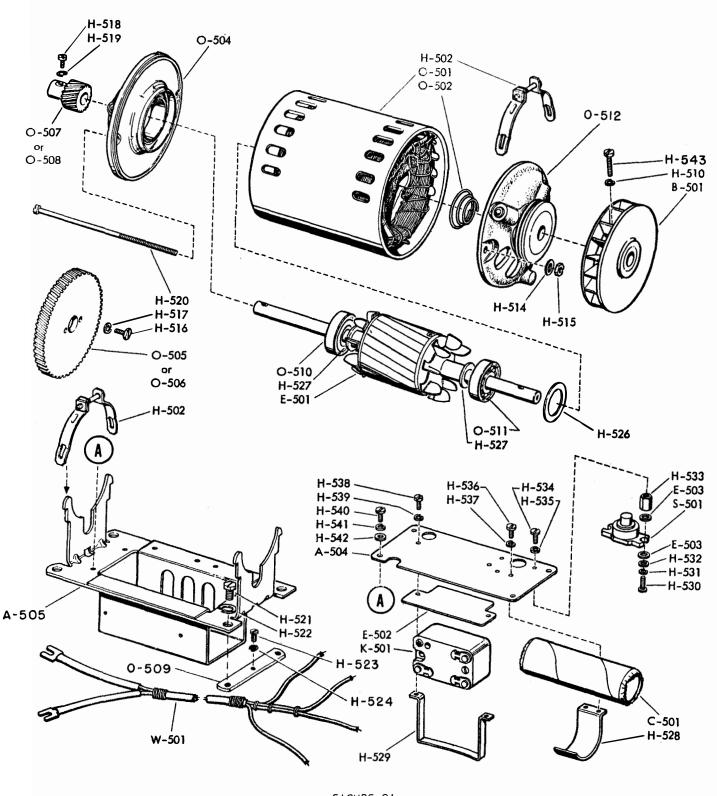
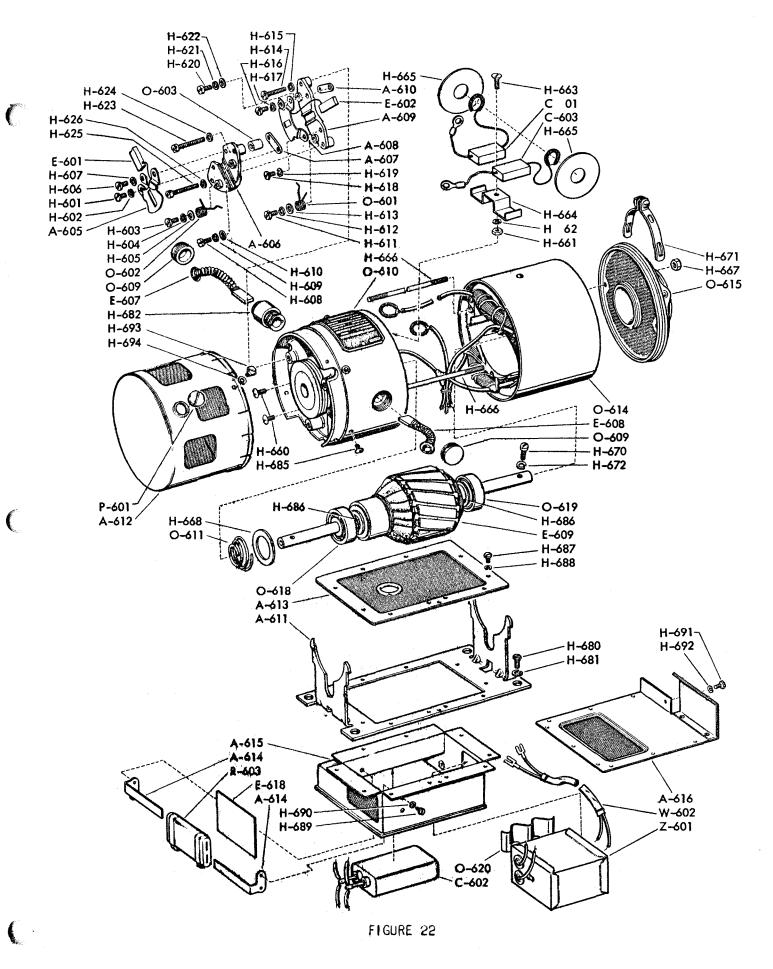


FIGURE 21



	TAI	BLE 8-4. COMBINED P.	ARTS AND	SPARE	PAF	RTS LI	ST						
		PARTS								SPA	RE	P/	۱R'
YMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	JAN OR NAVY TYPE DESIGNATION	STANDARD NAVY STOCK NUMBER		IUFAC- IRERS DESIG.	TELETYPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOTAL NO.	EQU O	DUAN.	ST XO	Too
		FOLLOWING PARTS FROM TABLE 8- H-673, H-674, H-675, H-676, H-					H_11#3						
	H-1184, H-1420, H-1421	., 0-188, 0-612, 0-616, 0-617, G PARTS INFORMATION ON TABLE 8	0-1649, 0-1665,	0-1964, 0-	1969,	R-601, F	1-602, W-60						
1	1		-4, CONDINED IN					1	1.	I I	ı		ı
A-119	BRACKET: irregular shape; steel, nickel plated; approx 1 11/32" 1g x 25/32" h x 15/32" wd o/a, 0.035" thk material; mts by two elongated slots in body; one end formed w/elongated slot and rounded ear w/body hole, curved cutout and rectangular shaped extension w/tapped hole on other end	Guide for 0-281		N17-T- 350014- 576				A-119	1	-	-		
A-611	BRACKET: motor support; "U" shape; steel, nickel plated; approx 6 3/16" lg x 3 3/8" wd x 2 9/32" h o/a, 0.095" thk material; mts by body hole in ea corner; rectangular shaped hole, 2 cutouts and ll tapped holes in base, irregularly cutout in both ends	Mounts PD-18/U to Keyboard Base			CTT	152046	152046	A-611	1	-	-	-	
H <b>-27</b> 3	STUD: steel, nickel plated; approx 1 17/32" lg x 3/8" across flats o/a, shoulder 1/16" lg x 9/32" diam; one end threaded 7/32" lg w/#6-40 thd; shank w/slot one end, slot around ctr of body	Pivot for and mounts 0-249 to A-118		N17-T- 350014- 713	CTT	151069	151069	H-273	1	1	1	<del>-</del>	
н-372	NUT, cap: hex cap, round body; steel, nickel plated; #4-40; approx 1/8" h; 3/16" wd across flats			N17-T- 350014- 908	CTT	151812	151812	H-372	1	-	-	-	
i-682	HOLDER, contact brush: brass body w/bakelite insulator; 2 grooves around shank end, wd slot at other end; approx 1 1/4" 1g x 11/16" OD x 11/32" ID o/a; mts by body; 2 slots, in line, through 1D	Holder for E-607 or E-608		N17-H- 71773- 1911	стт	122206	122206	н-682	2	-	-	-	
H <b>-1</b> 409	SCRLW, machine: wrench drive; Hex H; stain- less steel; #6-40, approx 1/4" lg o/a; 3/16" lg threaded portion; head 1/16" thk x 1/4" across flats; character "A" stamped on head	Holds H-1411 to A-1312 and identifies function box arrangement		N17-T- 350014- 909	CTT	151 <b>7</b> 39A	151739A	H-1409	1	-	•	-	
H-1484	WASHER, lock: steel, nickel plated; round, approx 9/32" OD x 1/8" ID x 0.018" thk o/a; shakeproof type, straight internal teeth	Holds 0-1510 through 0-1513 and 0-1515 through 0-1520 to H-1487		N17-T- 350010- 258	CTT	92260	92260	H-1484	1	-	-	-	
H <b>-1</b> 589	SCREW, set: slot drive; headless; steel, nickel plated; #10-32; 13/32" lg; cup point	Adjusts air release from 0-1609			CTT	1214	1214	H-1589	1	-	-	-	

		PARTS								SP	ARE	PA	RT
	NAME OF PART		JAN OR	STANDARD		NUFAC- JRERS		ALL SYMBOL	0 d	ΕĢ	UIP.	ST	OCK
SYMBOL DESIG.	AND DESCRIPTION	FUNCTION	NAVY TYPE DESIGNATION	NAVY STOCK NUMBER	CODE	DESIG.	TELETYPE PART NO.	DESIGNATIONS INVOLVED	TOTAL I	XO8	QUAN.	XO8	OUAN.
H-1590	NUT, hexagon: steel, nickel plated; #10-32; 3/32" thk; 1/4" across flats	Locks H-1589 in position			CTT	89897	89897	H-1590	1	-	-	-	-
H <b>-1</b> 803	WASHER, flat: steel, nickel plated; round w/2 ears, approx 1" h x 13/16" wd x 0.035" thk o/a; 9/16" ID; body hole in ea ear	Holds 0-1803 through 0-1808 to 0-1801			CTT	151794	151794	H-1803, H-1815	2	-	-	-	-
H-1815	Same as H-1803	Holds 0-1826 through 0-1828 and H-1837 to 0-1825											
H <b>-1864</b>	SCREW, machine: wrench drive; Hex H; stain- less steel; #4-40; approx 1/4" lg o/a; 3/16" lg threaded portion; head 1/16" thk x-3/16" across flats; character "N" stamped on head	Holds 0-1855 to 0-1857 and identifies type box arrangement		N17-T- 350014- 910	CTT	151738N	151738N	H-1864,	1	-	-	-	-
0-249	Lives: steel, nickel plated; irregular shape, formed one end, splits in two arms other end, hub welded to and p/o body; approx 1 7/8" lg x 21/32" h x 1/2" wd o/a, 0.065" thk material; mts by ID of hub, csk hole in approx ctr of lever	Operates 0-257		N17 <b>-</b> T- 3500 <b>14-</b> <b>5</b> 93	CTI	151387	151387	0-249	1	-	-	-	-
0-253	BEARING ASSEMBLY, roller: single row radial; light duty; cylindrical rollers; approx 5/32" shaft diam, 1/4" OD, 9/32" wd bearing; lubricated and packed per CTT spec; standard fit; retained w/felt washer on shaft of 23/32" lg stud w/#6-40 thd by retaining ring	Bearing for 0-249		N17-T- 350014- 912	CTT	151388	151388	Q+253	1	-	•	-	
0-609	CAP: brass w/bakelite insulator; $3/4" - 24$ external thd one half length, knurled other half, slot in ctr; approx $5/16"$ lg x $3/4"$ OD o/a, $5/8"$ ID in threaded end only; mts by threaded portion; bakelite disk inserted inside cap	Retains E-607 or E-608 in H-682		N17-T- 350013- 803	CTT	122204	122204	0-609	2		1	-	-
0–610	END-BELL: steel; irregular shape, three irregular shape holes, 3 bosses, vibration mt, 2 cutouts and 2 grommets in front end, 2 internal rises on rear end, 2 ball oilers on side; approx 2 9/16" lg x 3 7/8" OD x 3/8" ID o/a; mts by 2 tapped holes in rear end; 12 tapped holes and 3 body holes irregularly located	End bell for 0-614 and mounts A-606, A-609, H-682 and part of series circuit		N17-E- 39048- 1001	CTT	122200	122200	0-610	1	-	1	-	ı
0–615	END-BELL: irregular shape, front has 4 irregular shaped holes and boss on lower half, vibration mt extends in front, electrostatic shield w/#40 brass screen on back; approx 3 3/16" OD x 7/16" ID x 1 3/16" 1g o/a; mts by elongated hole in ea of 2 opposite cutouts; body hole near ID	End bell for E-614		N17-E- 39047- 4501	CTT	122253	122253	0-615	1	-	1	-	-

													_
		PARTS							-,	SP/	ARE	PA	R1
YMBOL Desig.	NAME OF PART AND DESCRIPTION	FUNCTION	JAN OR NAVY TYPE DESIGNATION	STANDARD NAVY STOCK NUMBER		DESIG.	TELETYPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOT AL NO.	X OB	OIP.	STC Z	OC!
-1670	WASHER, felt: hard, white felt, round, approx 11/16" OD x 17/32" ID x 1/8" thk o/a	Lubricates 0-1669		N17-T- 350013- 630	CTT	89096	89096	0-1670, 0-1674	.2		-	-	
-1674	Same as 0-1670	Lubricates 0-1675											
-2030	Same as 0-1314	Pivot for and spaces 0-2087 from left side frame						· .					
		ADD THE FOLLOWING PARTS TO T	ABLE 8-4. COMBI	NED PARTS A	ND SP	ARE PART	S LIST		•				J
-504	PLATE, mounting: steel, nickel plated; approx 4 5/8" lg x 2 1/4" wd x 0.042" thk o/a; mts by four corner holes; curved cutout one side, 2 large and 6 small body holes irregularly spaced	Mounting plate for C-501, K-501 and S-501			CTT	151920	151920	A-504	1	-	-	-	
-505	BRACKET ASSAMBLY: c/o 2 brackets welded together; steel, nickel plated; irregular shape upper bracket has 2 formed ends w/cutout in ea, 4 body ears, 4 tapped holes, and rectangular cutout in ctr, lower bracket "U" shape w/3 elongated holes in one side and 2 body holes in as side, 4 tapped holes through both brackets; approx 6 3/16" lg x 3 3/8" wd x 3 11/16" h o/a; mts by body hole in ea corner ear	Mounts PD-17A/U		N17-T- 350013- 893	CTT	150976	150976	A-505	1	-	-	-	
-612	COVER: brass, nickel plated; closed one end, one cutout and 10 slots other end, one rectangular hole, 8 sq holes and one tapped hole in circum, #40 mesh screen soldered to inside of circum; approx 3 11/16" diam x 2 3/4" lg o/a; mts by lip and 4 body holes in circum	Electrostatic shield and cover for governor mechanism			CTT	152044	152044	A-612	1	-	-	-	
-613	COVER: steel and brass, nickel plated; #40 screen sandwiched between 2 plates, cutout in ctr, and welded together, grommet and washer fastened to screen; approx 4 3/4" 1g x 3 3/8" wd x 3/32" thk o/a; mts by 11 body holes; 11 depressions in top plate	Electrostatic shield for mtd parts of A-615			CTT	152037	152037	A-613	1		-	-	
-614	BRACKET: resistor support; "L" shape; steel. nickel plated; approx 2 1/16" 1g x 1/2" wd x 23/32" h o/a, 0.050" thk material; mts by two #4-40 holes 7/16" c to c in irregular shaped short end	Mounts R-603 to A-615			CTT.	152034	150234	A-614	2			-	

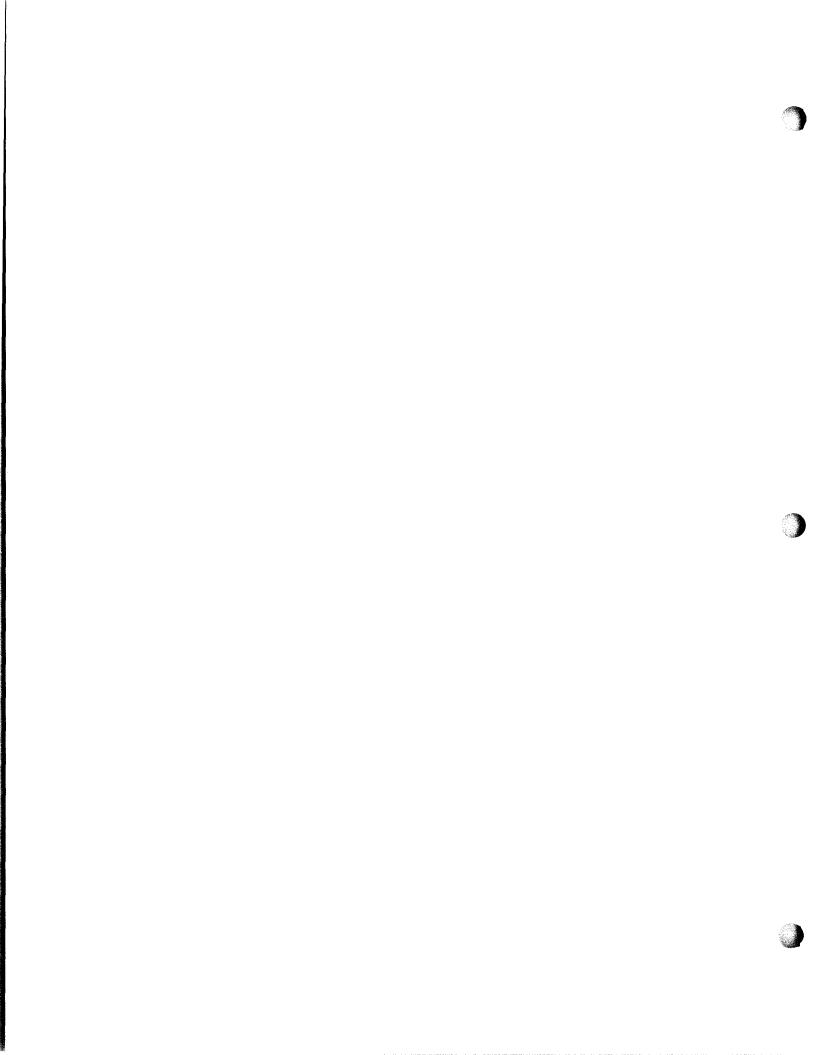
		PARTS								SPA	ARE	PA	R
	NAME OF PART		JAN OR	STANDARD		NUFAC-		ALL EVIADOL	9	EQU	IIP.	STC	 >C
SYMBOL DESIG.	AND DESCRIPTION	FUNCTION	NAVY TYPE DESIGNATION	NAVY STOCK NUMBER	CODE	DESIG.	TELETYPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOTAL NO.	XO8	OUAN.	×o.	
k-615	BASE, motor: steel, nickel plated; irregular shape, partially enclosed on top w/4 formed flaps around opening, completely open on bottom w/3 sides formed to receive slide cover, 3 cutouts, 2 covered w/#40 brass screen; approx 4 3/4" lg x 4 5/26" wd s 1 17/32" h o/a, 0.016" the material; sts by 11 body holes in flaps; one tapped hole in disk melded to side and 3 body holes in sides	Container for C-602, K-603 and 2-601			CTT	152039	152039	A-615	1	-	-	-	_
A-616	COVER: steel, nickel plated; rectangular shape, cutout and 2 formations on one side, gray fibre insulator riveted to larger formation, body hole in smaller formation, 9 extrasions along other 3 sides, #40 brass screen soldered over rectangular cutout in body; approx 3 15/16" lg x 3 3/4" wd x 1 3/8" h o/a, 0.016" thk material; slide mts by 3 sides	Cover for-A-615			CTT	152040	152040	A-616	1	1	-		
B <b>-501</b>	FAN: Surbine type; electric motor operated; aluminum blades; approx 3 1/8" OD x 3/8" ID x 21/32" wd o/a; direct drive; mts by body hole through hub	Cools Pb-17A/U			стт	123769	123769	B-502	I	•	•	•	
k-108	TERRIMAL: nickel silver; narrow end formed to "U" whape, body hole in other end; approx 5/8" 1g x 1/4" wd x 1/8" h o/a, 0.013" the material; formed end tin dipped	Holds cable from Z-101 to keyboard base	<b>.</b>		CTT	151365	151365	E-108	1		•		-
Ē~502	INSULATOR, plate: rectangular w/both corners cutout on one side; PS grade, natural color bakelite; approx 2 9/16" lg o/a; 1 3/8" wd x 1/32" thk o/a, two 1/8" diam mtg holes 2 9/32" c to c	Insulator for K-501			CPT	151924	153,924	E-502	1	-	-	-	-
E-503	WASHER, flat: natural color bakelite, PS grade; round, approx 9/32" OD x 1/8" ID x 0.031" thk o/a	Insulating washer for S-501			CTT	8 <b>7</b> 334	87334	E-503	4	-	-	-	<b>-</b>
Ŀ <b>-</b> 618	INSULATOR, plate: rectangular shape; mica; 2 1/8" lg o/a; 1 3/8" wd x 1/32" thk	Insulates C-602 from R-603	·		СТТ	152058	152058	E-618	1	-	-	-	-
H-394	Same as H-104	Holds 0-312 to 0-279											
H <b>-</b> 395	Same as h-190	Holds 0-208 to keyboard base											
H <b>-</b> 396	SCREW, pilot: slot drive; FH; steel, nickel plated; #4-40; approx 3/8" 1g o/a; 3/32" 1g threaded portion; 1/16" thk x 3/16" diam heae; 3/32" diam x 7/32" 1g pilot	Stop for 0-280			СТТ	6801	6801	н-396	1	- ,	-	-	- 

		PARTS							,	SP	ARE	PA	RTS
SYMBOL	NAME OF PART		JAN UK	STANDARD NAVY	TL	NUFAC-	TELETYPE	ALL SYMBOL	N S		UIP.	ST	OCK
DESIG.	AND DESCRIPTION	FUNCTION	NAVY TYPE DESIGNATION	STOCK	CODE	DESIG.	PART NO.	DESIGNATIONS INVOLVED	TOTAL PER EQ	XOB	OUAN.	XO8	OUAN.
н-397	Same as H-147	Holds H-396 to A-119											
H-398	WASHER, lock: stainless steel; round, approx 13/32" OD x 3/16" ID x 0.022" thk o/a; shakeproof-type, twisted external teeth	Holds keyboard base to CY-870/UG or CY-871/UG			CTT	151572	151572	н-398	4	-	-	-	-
H=399	NUT, cap: round; steel, nickel plated; #4-40; approx 7/32" lg o/a; 3/16" diam body, 5/16" diam knurled cap	Holds 0-142, 0-143 and A-107 to A-106		N17-T- 350014- 884	CTT	151829	151829	н-399	2	-	-	-	-
H-400	WASHER, flat: steel, nickel plated; round, approx 5/16" OD x 5/32" ID x 0.035" thk o/a	Holds 0-279 to A-118		N17-T- 350005- 725	CTT	2247	2247	н-400	2	-	-	-	-
H-401	Same as H-322	Retains 0-366 on H-273											
h=528	CLAMP: capacitor; steel; nickel plated; approx 1 3/8" lg x 3/4" wd x 1 1/16" h o/a, 0.065" thk material; accommodates 1 1/32" diam capacitor; two #4-40 tapped holes in one end	Clamps C-501 to A-504			CTT	151922	151922	н-528	1	-	-	-	-
H-529	CLAMP: relay; steel; nickel plated; approx 2 17/32" lg x 1/4" wd x 1 5/16" h o/a, 0.065" thk material; accommodates 1 7/8" lg x 1 11/32" h relay; #4-40 tapped hole in ea formed end	Clamps K-501 to A-504			CTT	151925	151925	H-529	1	-	-	-	-
н-530	Same as H-1591	Holds S-501 to H-533				}							
H <b>-</b> 531	Same as H-1144	Holds S-501 to H-533											
H=532	Same as H-104	Holds S-501 to H-533											
н-533	NUT, hexagon: steel, nickel plated; #4-40; 3/8" thk; 1/4" wd across flats	Spaces S-501 from A-504			CTT	151926	151926	н-533	2	-	-	-	-
H <b>-5</b> 34	Same as H-1691	Holds H-533 to A-504	-							l			
H <b>-</b> 535	Same as H-1144	Holds H-533 to A-504											
H <b>-</b> 536	Same as H-1691	Holds H-528 to A-504,					l		1	1			
H <b>-</b> 537	Same as H-1144	Holds H-528 to A-504	1										
H-538	Same as H-1691	Holds H-529 to A-504			1	ľ		}					
H <b>-</b> 539	Same as H-1144	Holds H-529 to A-504											
H-540	Same as H-132	Holds A-504 to A-505								1			
H-541	Same as H-118	Holds A-504 to A-505											
H-542	Same as H-125	Holds A-504 to A-505											
		<u></u>				ŀ				} 			

*******		PARTS								CD.	ARE	D.A	DT
		i ARTO		STANDARD		NUFAC-			25		UIP.		OCK
SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	JAN OR NAVY TYPE DESIGNATION	NAVY	CODE	DESIG.	TELETTPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOTAL N			XOE	OUAN.
h-543	Same as H-1112	Holds B-501 to E-501									5		<u> </u>
н-687	Same as H-257	Holds A-613 and A-615 to A-611											
H-688	Same as H-147	Holds A-613 and A-615 to A-611			,								
н-689	Same as H-257	Holds A-614 to A-615											
н-690	Same as H-147	Holds A-614 to A-615											
H-691	Same as H-257	Holds A-616 to A-615											ĺ
н-692	Same as H-147	Holds A-616 to A-615											
н-693	Same as H-1493	Holds A-612 to 0-610											
H-694	Same as H-118	Holds A-612 to 0-610							1				
H <b>-81</b> 7	WASHER, flat: steel, nickel plated; round, approx 1/2" OD x 1/4" ID x 1/32" thk o/a	Spaces side cradle rail from A-753 and A-754 or A-702		N17-T- 350007- 582	CTT	718 <b>5</b> 8	71858	H-817	20	-	-	-	-
8 <b>.1</b> 8—H	GUIDE, cable: steel; 9/16" diam cable; approx 1 3/4" lg x 1" wd x 0.065" thk o/a; one elongated mtg hole	Front guide for #-1101		N17-T- 350014- <b>90</b> 2	CTT	151955	151 <b>9</b> 55	H <b>-81</b> 8	2	-	-	-	-
h-819	Same as H-311	Holds H-818 and side cradle rail to A-753 and A-754 or A-702											
H-820	Same as H-760	Holds H-818 and side cradle rail to A-753 and A-754 or A-702											
H <b>-8</b> 21	SCREW, machine: slot drive; kH; iron, nickel plated; #10-32; approx 1/2" lg o/a; 3/8" lg threaded portion; head 1/8" thk x 11/32" diam	Holds A-753 and A-754 to CY-871/UG or A-702 to CY-870/UG		N17-T- 350006- 703	CTT	8333	8333	H-82]	16	-	-	-	-
H <b>-82</b> 2	Same as H-776	Holds A-753 and A-754 to CY-871/UG or A-702 to CY-870/UG											
H <b>-82</b> 3	Same as H-780	holds A-753 and A-754 to CY-871/VG or A-702 to CY-870/VG											
H-824	GUIDE, cable: steel; 9/16" diam cable; approx 4" 1g x 1 1/2" h x 0.065" thk o/a; two mtg holes in curved end	Rear guide for W-1101		N17-T- 350014- <b>89</b> 6	CTT	151956	151956	H-821,	2	-	-	-	- 
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		PARTS								SP	ARE	PA	RTS
SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	JAN OR NAVY TYPE DESIGNATION	STANDARD NAVY STOCK NUMBER		NUFAC- IRERS DESIG.	TELETYPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOTAL NO.	BOX S	PONAN.	STC XO	OCK NAU
H-1185	Same as H-125	Holds 0-1101 to A-1101											
H-1180	Same as H-125	Holds 0-1104 to A-1101											
H-2171	Same as H-1324	Bearing surface for and holds 0-1926 on 0-1931											
<b>H-</b> 2172	Same as H-1324	Bearing surface for and holds 0-1926 on 0-1931											
H-2173	Same as H-799	Bearing surface for 0-1965											1
H-2174	Same as H-799	Bearing surface for 0-1970											
H-2175	Same as H-302	Holds 0-1839 to 0-1840											
K-501	RbLAY, motor starting: SPST normally open; single winding, 6.1 amps AC operating current, 5.2 amps AC release current, insulated; solder lug terminals on coil and contacts; approx 1 27/32" lg x 1 1/4" wd x 1 1/16" h o/a; clamp mtd; fast acting; dust proof cover	Starting relay for PD-17A/U			CTT	151923	151923	K-501	1	_	-	_	-
0 <b>–</b> 365	SHIM: steel; approx 5/16" OD x 3/16" ID x 0.004" thk o/a	Cushion for A-107			CIT	7654	7654	0-365	8	-	-	-	-
0-366	LINK: steel, nickel plated; cutout one side, rounded ends; approx 1 5/32" lg x 5/16" wd x 0.042" thk o/a; mts by body hole in ea end	Braces 0-312		N17-T- 350014- 901	CTT	151831	151831	0–366	1	-	-	-	-
0-367	BAR, upstop: steel, nickel plated; approx 8 13/16" lg x 1/2" wd x 0.035" thk o/a; mts by ends; 3 cutouts one side, one lg cutout w/tooth in other side, body hole near one end	Upstop for 0-314 through 0-319			CTT	151830	151830	0-367	1	-	-	-	-
0-368	Same as 0-147	Applies tension to 0-367											
0-369	Same as 0-295	Lubricates 0-291				{							
0-512	Same as 0-504	End bell for 0-501											
0-620	SPRING: flat type; 0.010" thk nickel silver; approx 1 3/4" lg x 5/8" wd x 1/4" h o/a; 5 equally spaced ripples	Applies pressure to and spaces C-602 and Z-601			CTT	152078	152078	0–620	1	-	-	-	-
0-2132	Same as 0-1634	Lubricates 0-1754											
0–2133	SPRING: helical compression type; 0.014" diam music wire; approx 7/32" lg x 5/32" OD o/a; approx 6 turns; straight ends	Applies pressure to 0-2134			CTT	110872	110872	0-2133	1	-	-	-	-
										ĺ			

	TA	BLE 8-4. COMBINED P	ARTS AND	SPARE	PA	RTS L	IST						
		PARTS								SP	ARE	PAR	TS
SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	JAN OR NAVY TYPE DESIGNATION	STANDARD NAVY STOCK		DESIG.	TELETYPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOTAL NO.	ВОХ	PONAN.	STO	CK CK
			DESIGNATION	NUMBER	<u> </u>	<b>D13.0</b> .		INVOLVED	10 FE	ď	0	<u> </u>	<u>o</u>
0-2134	Same as 0-1349	Ball valve for 0-1609											
P-601	PLUG, machine thread: steel, nickel plated; approx 5/32" lg x 13/32" diam o/a; mts by 3/32" lg 3/8" x 32 threaded shank; drive slot across head	Plug for A-612			CTT	152035	152035	P-601	1	-	-	-	-
k-603	RESISTOR, fixed: WW; 250 ohms; 40 w at 300° C max continuous oper temp; approx 2" 1g x 1 3/16" wd x 1/2" h o/a; vitreous enamel coating; 2 radial tab term; mts by 2 slots through 1g of body	Offers resistance to PD-18/U			CTT	152054	152054	H-603	1	-	-	-	-
₩-501	CABLE ASSEMBLY, special purpose: lacquered cotton braid covering; 3 conductors, #18 AWG stranded copper wire; bound w/#6 lacing twine; approx 12" 1g o/a; 2 conductors w/CTT 151626 terminals soldered to one end, 4 conductors skinned and tinned other end, vinyl plastic flexible tubing in ctr, tied at ends w/#6 lacing twine	Connects PD-17A/U with TB-101			CTT	151927	151927	W-501	1	-		-	
w-602	CABLE ASSEMBLY, special purpose: lacquered cotton braid covering; 2 conductors, #18 AWG stranded copper wire; covered w/12" 1g tubing and tied w/#6 lacing twine; approx 14 3/4" 1g o/a; color coded; both conductors tinned one end, CTT 151626 terminals soldered to other end	Connects PD-18/U with Z-601			CTT	152059	152059	wi-602	1	1	1	-	-
Z-601	SUPPRESSOR, electrical noise: resistor and capacitor; approx 2 3/16" lg x 2 3/16" wd, incl term, x 1 1/4" h o/a; 1 1/4" amp, 150 v AC, rectangular metal case; 5 solder lug term; hermatically sealed	PD-18/U radio interference suppressor				#1152	152055	2-601	1				



Temporary correction T-1 to Instruction Book for Teletypewriters TT-47/UG, TT-48/UG, TT-69/UG, and TT-70/UG (NAVSHIPS 91393)

- Page 2-0. Delete Figure 2-1 and substitute therefor Figure 1 of this temporary correction.
- Page 2-32. Figure 2-59. Change the name CODE BAR RESET BAIL to read: FUNCTION BAR RESET BAIL.
- Page 2-38. Figure 2-71. Change the name LINE FEED ECCENTRIC SPUR GEAR to read: LINE FEED CLUTCH SPUR GEAR. Change the name LINE FEED CLUTCH SPUR GEAR.
- Page 3-6. Add the following note at the end of Section 3, paragraph 9:

Under certain conditions, filter Z-101 may contribute to signal distortion in the signal line circuit. At the time of installation, the signals should be checked for excessive distortion. When present, it should be compensated for in order to retain the desired quality of the signals.

- Page 7-15. Figure 7-6. Under FLUTTER LEVER SPRING TENSION change MIN. 3/4 OZ.

   MAX. 1-1/2 OZS. to read: MIN. 1 OZ. MAX. 2-1/4 OZS.
- Page 7-23. Figure 7-14. Change the name CODE BAR to read: CLUTCH TRIP BAR.
- Page 7-24. Figure 7-15. Under CLUTCH TRIP BAR SPRING TENSION REQUIREMENT, change the requirement to read: KEYBOARD CLUTCH DISENGAGED.

  LETTERS KEY LEVER DEPRESSED.

MIN. 2 OZS.

MAX. 5 OZS.

TO START CLUTCH TRIP BAR (REAR BAR) MOVING.

Page 7-46. Figure 7-37. Change MIN. 0.025 INCH, MAX. 0.035 INCH to read:

SOME CLEARANCE, MAX. 0.025 INCH.

T-I PAGE!
(OF 13 PAGES)

- Page 7-48. Delete Figure 7-39 and substitute therefor Figure 2 of this temporary correction.
- Page 7-55. Figure 7-46. After (2) REQUIREMENT under TYPE BOX CLUTCH TRIP ARM, add the following:

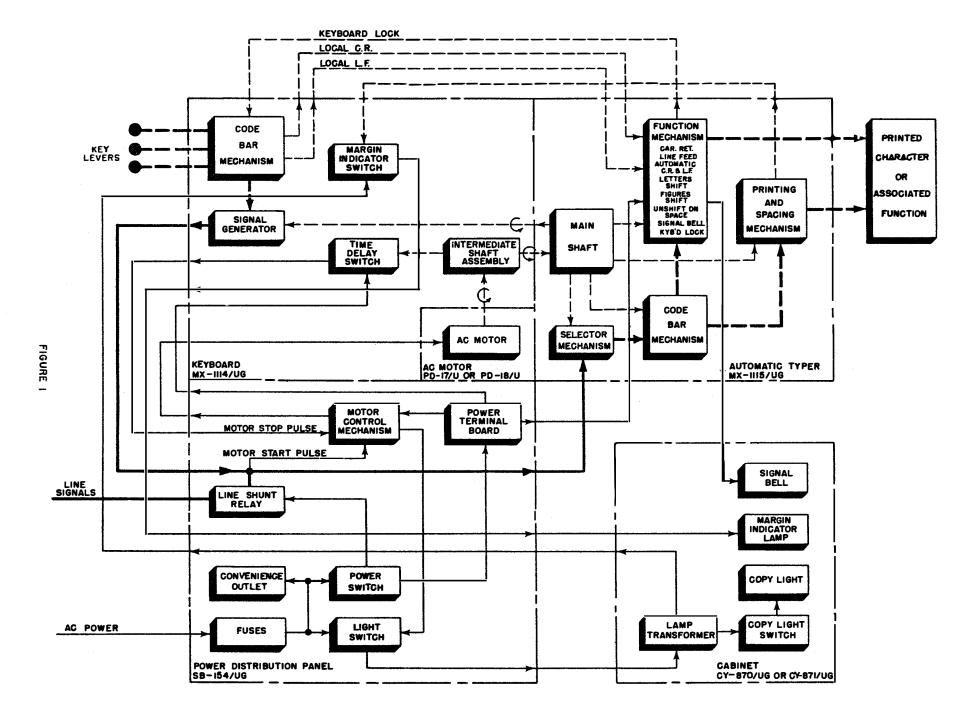
TO ADJUST

POSITION THE CLUTCH TRIP ARM ON ITS SHAFT WITH THE CLAMP SCREW LOOSENED.

- Page 7-68. Figure 7-60. Change 3/16 INCH to read: 5/32 INCH.
- Page 7-72. Delete Figure 7-64 and substitute therefor Figure 3 of this temporary correction.
- Page 7-77. Figure 7-69. Change MIN. 0.006 INCH to read: MIN. 0.010 INCH.
- Page 7-78. Delete Figure 7-70 and substitute therefor Figure 4 of this temporary correction.
- Page 7-86. Figure 7-79. Under AUTOMATIC CARRIAGE RETURN ARM REQUIREMENT change the first two lines to read: CARRIAGE POSITIONED TWO SPACES BEFORE THE POSITION AT WHICH CARRIAGE RETURN IS DESIRED. Under HORIZONTAL STOP SLIDE SPRING TENSION change 1-1/4 OZS. to 2 OZS. and 2-1/2 OZS. to 3 OZS.
- Page 7-103. Figure 7-95. Delete the part identified by symbol Z-101 and substitute therefor the part identified by symbol Z-101 shown in Figure 5 of this temporary change. Delete the parts identified by symbols H-145, H-170, H-171, H-172.
- Page 7-109. Figure 7-104. Delete the part identified by symbol W-102.
- Pages 7-114 & 7-115. Figures 7-109 & 7-110. Delete the parts identified by symbols A-755, H-701, H-761, H-762, H-763, H-764, H-765, H-766, H-784, H-785, H-786, L-751, O-753, O-757, O-758, O-764, XE-753, and add the parts shown in Figure 6 of this temporary change.
- Page 7-116. Figure 7-111. Delete the part identified by symbols H-1135, H-1178.

- Page 7-117. Figure 7-112. Delete the part identified by symbol H-1173.
- Page 7-124. Figure 7-119. The parts identified by symbols 0-1492, 0-1493, H-1470, H-1471, and H-1472 will be supplied as a subassembly only, identified by symbol 0-2131.
- Page 7-138. Figure 7-133. Delete the part identified by symbol H-2099.

Change items in Table 8-4 in accordance with pages 10, 11, 12, and 13 of this temporary change.



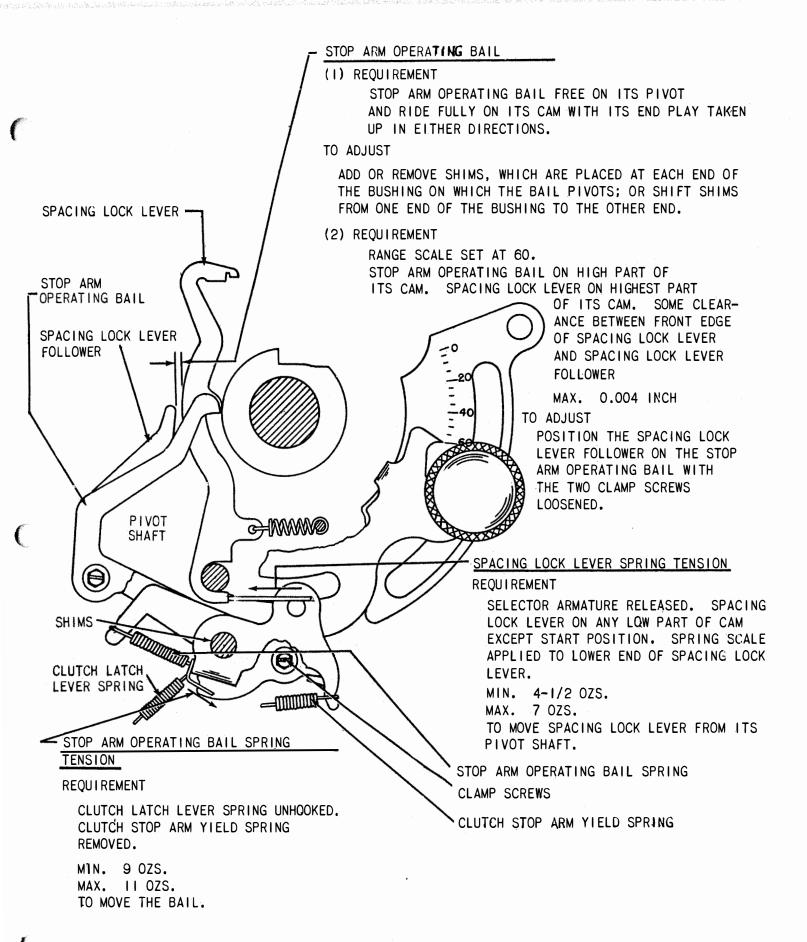
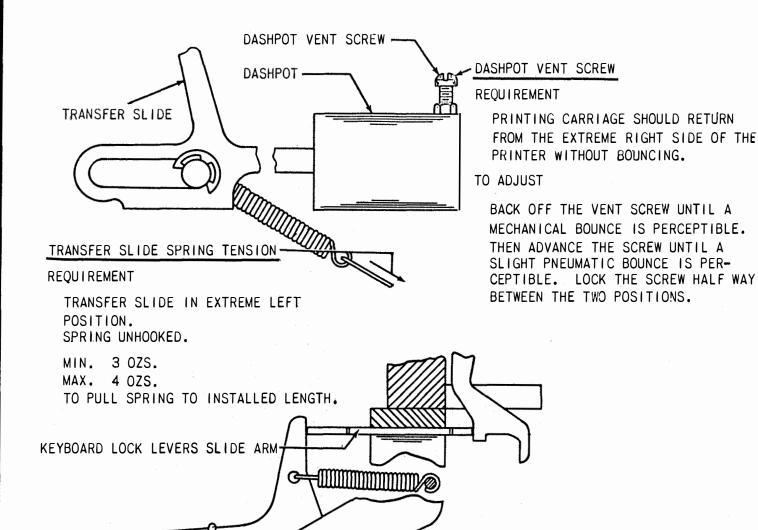


FIGURE 2



KEYBOARD LOCK LEVER SPRING TENSION

**REQUIREMENT** 

SCALE APPLIED TO BELL CRANK.

MIN. 1/2 OZ.

MAX. 1-1/2 OZS.

TO START KEYBOARD LOCK LEVER MOVING.

FIGURE 3

KEYBOARD LOCK LEVER

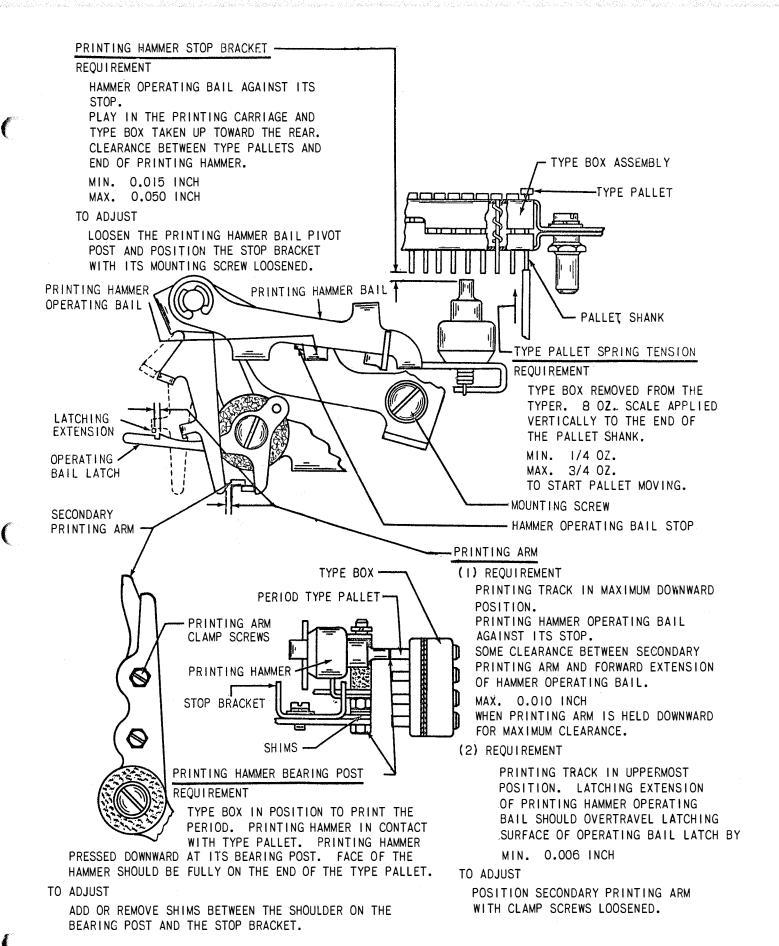
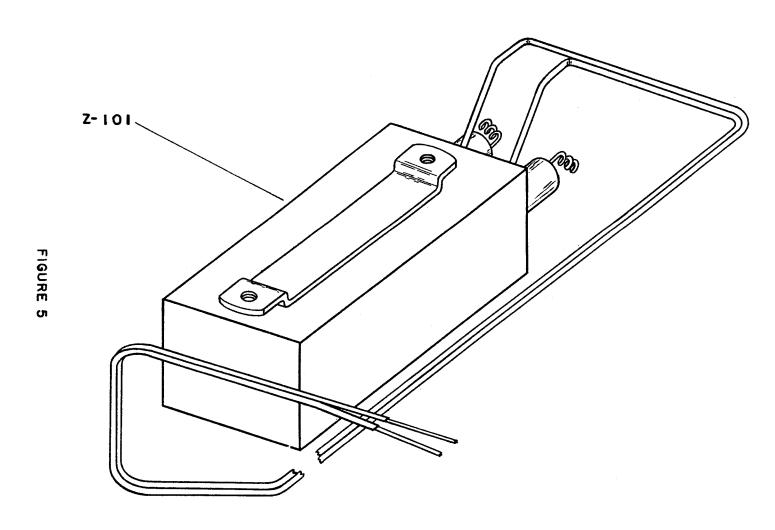


FIGURE 4



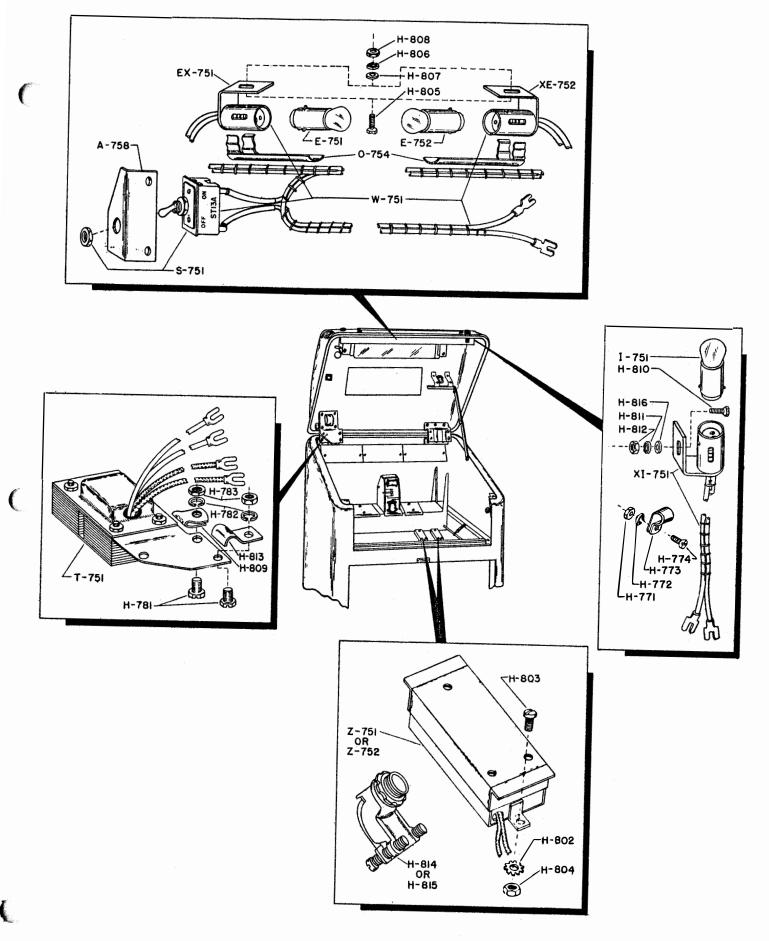


FIGURE 6

		PARTS								SPA	RE	PA
YMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	JAN OR NAVY TYPE DESIGNATION	FEDERAL STOCK NUMBER	TU	UFAC- RERS DESIG.	TELETYPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOT AL NO. PER EQUIP.	EQU X	DOAN.	STO
	A-755, H-145, H-170, H-171 H-1178, H-2099, L-751, 0-7	E THE FOLLOWING PARTS FROM TABLE , H-172, H-701, H-761, H-762, H-753, O-757, O-758, O-764, W-102, OWING PARTS INFORMATION ON TABLE	H-763, H-764, H- , XE-753	765, H <b>-</b> 766,	H-78	<b>4, Н-</b> 785	, н-786, н	-1135, Н-1173,				
E-751	LAMP, incandescent: 6-8v, 1.14 amps, 6 cp; bulb G-6 clear; 1 7/16" lg o/a; miniature bayonet base; C-2R filament; burn any position;	Illuminates copy			CG	82	151982	E-751, E-752, I-751	3	1	6	-
	Same as E-751  INSULATOR, plate: rectangular shape; Grade P, natural color bakelite; approx 16" 1g x 2 7/16" h x 0.016" thk o/a; mts by 6 holes irregularly spaced in row; white figures "1" through "30" stamped or stenciled across length	Illuminates copy Insulates TB-751, TB-752 and TB-753 from cabinet shell			CTT	151435	151435	E-754	1	-	-	-
H=300	SCREW, machine: slot or wrench drive; Hex H; steel, nickel plated; #4-40; approx 1/4" 1g o/a; 3/16" 1g threaded portion; head 1/16" thk x 3/16" across flats	Holds 0-263 to 0-262			CTT	151737	151737	H-300, H-315, H-1764, H-1765, H-1779, H-178! H-1796, H-1810, H-1822	\$	1	6	-
н <b>-</b> 352	WASHER, flat: steel, nickel plated; round, approx 1/4" OD x 1/8" ID x 0.042" thk o/a	Holds 0-301 to 0-279			CTT	2597	2597	H=352	2	-	-	-
H <b>-</b> 771	Same as H-780	Holds H-773 to cabinet dome										
H <b>-</b> 772	Same as H-776	Holds H-773 to cabinet dome										
H <b>-7</b> 74	Same as H-1922	Holds H-773 to cabinet dome										
H-781	SCREW, machine: slot or wrench drive; Hex H; steel, nickel plated; #10-32; approx 3/4" lg o/a; 5/8" lg threaded portion; head 1/8" thk x 5/16" across flats	Holds T-751 and H-809 or H-813 to cabinet dome			CTT	78301	78301	H-781	2	-	•	-
H <b>-</b> 782	Same as H-776	Holds T-751 and H-809 or H-813 to cabinet dome										
H <b>-</b> 783	Same as H-780	Holds T-751 and H-809 or H-813 to cabinet dome										
I-751	Same as E-751	Pilot light for end of line indication										

		PARTS								SP	ARE	PA	RTS
	NAME OF PART		JAN OR	FEDERAL	MA	NUFAC- IRERS		ALL SYMBOL	AL NO. EQUIP.	ΕĢ	UIP.	STO	OCK
SYMBOL DESIG.	AND DESCRIPTION	FUNCTION	NAVY TYPE DESIGNATION	STOCK	CODE	DESIG.	TELETYPE PART NO.	DESIGNATIONS INVOLVED	TOT AL	xoa	QUAN.	ВОХ	QUAN.
0-268	SPRING: helical extension type; 0.018" diam music wire; approx 9/16" lg x 1/8" OD x 3/32" ID o/a; approx 17 turns; parallel hook term ea end	Applies tension to 0-267 and 0-269			CTT	150241	150241	0-268, 0-1750, 0-1759, 0-1776, 0-1796, 0-1816, 0-1834		1	4	-	-
0-754	SHIELD, light: nickel silver; approx 8 1/4" lg x 11/16" wd x 7/8" n; clamps on light sockets	Shield for E-751 and E-752			CTT	151983	151983	0_754	1	-	-	-	-
0-769	PAD, silencing: fiber glass; approx 8 <sup>#</sup> lg x 6" wd x 1" thk o/a	Silencing pad			OWEN	CORNING PF-316- 1 lb density		0-769	3	-	-	-	-
0-2019	SPRING: helical extension type; 0.014" diam music wire; approx 1 1/8" 1g x 3/16" OD o/a; approx 58 turns; hook terms indexed 90°; mts by term at ea end	Applies tension to 0-2021 through H-2018			CTT	7634	7634	0-2019, 0-2023	2	1	1	-	-
0-2045	SPRING: helical extension type; 0.014" diam music wire; approx 5/8" 1g x 3/16" OD x 5/32" ID o/a; approx 26 turns; hook term ea end indexed 90°; mts by terms	Applies tension to 0-2033		N17-T- 350006- 401	CTT	7965	7965	0-2045	1	1	2	-	-
XE-751	LAMPHOLDER: candelabra bayonet type; steel shell body; 110 v; approx 15/16" h x 5/8" wd x 1" lg o/a, 5/8 diam socket; mts by elongated slot in bracket; mtg bracket located parallel to and beside socket; two wire leads 3 3/4" lg	Socket for E-751			CAYZ	12-71	151540	XE-751, XE-752	2		-	_	-
XE-752	Same as XE-751	Socket for E-752											
Z-101	SUPPRESSOR, electrical noise: choke coil and capacitor; approx 3 7/8" lg x l 1/2" wd x 1/8" h o/a dim of case incl capacitors; l 1/4 amp, 600 v DC; rectangular metal case; mts by 2 #6-40 tapped holes 2 3/8" c to c in bracket soldered to case; 3 solder lug terms inside case; 2 conductor cable, enclosed in copper tubing, irregularly formed, soldered together five places and soldered to one end of case near figures "l" and "2" stamped in case, cable 7 5/8" lg o/a, 2 Erie #362 feed through capacitors, covered w/bakelite caps, on same end of case as cable	Signal line radio interference suppressor			CTT	151369	151369	2–101			-		
								·					

		PARTS								SPA	RE.	PAI	ŁΤ
SYMBOL DESIG.	NAME OF PART AND DESCRIPTION	FUNCTION	JAN OR NAVY TYPE DESIGNATION	FEDERAL STOCK NUMBER	<u> </u>	IUFAC- IRERS DESIG.	TELETYPE PART NO.	ALL SYMBOL DESIGNATIONS INVOLVED	TOTAL NO.	EQ X	<del></del>	STO X Q	NAUG
	AD	D THE FOLLOWING PARTS TO TABLE	8-4, COMBINED F	PARTS AND SP	ARE P	ARTS LIS	T				•		
A-758	BRACKET: switch support; "L" shape; steel, nickel plated; approx 2 11/16" lg x 1 5/16" wd x 1 5/16 h o/a, 0.048"thk material; mts by two body holes in one side; cutout on corner and large body hole one side	Mounts S-751 to cabinet dome				151990	_	A-758	1	-	-	-	
H-802	Same as H-512	Holds 2-751 or 2-752 to cabinet											
i-803	Same as H-797	Holds 2-751 or 2-752 to cabinet											
H-804	Same as H-513	Holds 2-751 or Z-752 to cabinet											
i-805	Same as H-1150	Holds XE-751 or XE-752 to cabinet dome											
1-806	Same as H-118	Holds lE-751 or XE-752 to cabinet dome											
i-807	Same as H-125	Holds XE-751 or XE-752 to cabinet dome											
808-i-	Same as H-119	Holds XE-751 or XE-752 to cabinet dome											
i-809	Same as H-773	Clamps W-751 to cabinet											
-810	Same as H-1150	Holds XI-751 to cabinet dome											
H-811	Same as H-118	Holds XI-751 to cabinet dome	ľ										
H <b>-</b> 812	Same as H-119	Holds XI-751 to cabinet dome											
H <b>-</b> 813	CLAMP: cable clamp; steel; nickel plated; approx 1" lg x 1/2" wd x 11/32" h o/a; 0.032" thk material; accommodates 5/16" diam cable	Clamps cable from T-751 to cabinet			CTT	8254	8254	H-813	, 1	-	-	-	İ
H-814	CLAMP: cable clamp; steel; cadmium plated; 2 bolts employed; approx 1 15/16" 1g x 1 1/4" h x 1 3/8" wd o/a; accommodates 9/16" diam cable; mts by 1/2" pipe thd and bondnut one end, curved 90°	Clamps power cable to 2-751			APPL ELEC	cton co. 7380V	94660	H-814, H-815	2	-	-	1	
H-815	Same as H-814	Clamps line cable to Z-751											
H <b>-</b> 816	Same as H-125	Holds XI-751 to cabinet dome											

		BLE 8-4. COMBINED P								les.			
		PARTS			MA	NUFAC-	<del></del>	·	اجرة:		ARE		
SYMBOL	NAME OF PART AND	FUNCTION	JAN OR NAVY TYPE	FEDERAL STOCK		RERS	TELETYPE	ALL SYMBOL DESIGNATIONS	N S	ΕQ	UIP.		OCK
DESIG.	DESCRIPTION		DESIGNATION		COD	DESIG.	PART NO	INVOLVED	TOTAL NO.	ğ	QUAN.	ă E	QUAN.
0 <b>–2131</b>	FOLLOWER BAIL: steel, nickel plated; irregularly curved follower, w/ear on rounded end, held to irregular "U" shaped bail, w/round ear on one side, by 2 screws, lock washers and washers; approx 2 1/16" lg x 1 3/4" h x 15/16" wd o/a; mts by 2 holes in line in sides of "U"; hub welded to ear, 2 body holes and 2 csk holes in bail, two hubs welded to follower	Operates 0-1490			CTT	151793	151793	0–2131	1	1	1	-	
S-751	SWITCH, toggle: SPST	Switch for E-751 and E-752	ST13A	N1?-T- 70777- 8601	СНН	82301BS	118734	S-751	1	-	-	-	-
T-751	TRANSFORMER, power: filament type; 117V, 50-60 cycle, single ph; one output winding, secd 6.3V, 6 amp, ctr tapped; 1600 V insulation; varnish impregnated; metal cover one side; approx 5 1/16" lg x 2 29/32"wd x 2 5/8" h o/a, incl bracket and cover; four CTT #151626 terms at end of 12 1/2" lg four conductor cable; mts by three 7/32" diam holes in bracket	Supplies power to E-751 and E-752			CTT	151984	151984	T-751	1			-	-
W-751	CABLE ASSEMBLY, special purpose: lacquered cotton braid covering; 2 conductors, #18 AWG copper stranded wire; laced w/#6 lacing twine; approx 34 1/4" lg o/a; color coded; two CTT #151626 terms one end, one breakout w/CHH #82301 BS switch, two CAYZ #12-71 sockets spliced to cable	Connects S-751, XE-751 and XE-752 with TB-752		·	CTT	151981	151981	w-751	1	-	-	1	-
Z <b>-</b> 751	SUPPRESSOR, electrical noise: capacitor and coil; approx 5 3/4" lg x 2 1/4" wd x 1 5/8" h o/a incl mtg brackets; 2.5 amp, 150V AC; rectangular metal case; two 3/16 diam mtg holes in mtg brackets 5 1/4" c to c; two screw terms; 7/8" diam hole in bottom of case, two conductor cable 36" lg w/CTT #151626 terms on one end, "ELECTRICAL NOISE SUPPRESSOR, 2.5 amp 150 V ac 1473 INDUSTRIAL COND CORP. CHICAGO, U.S.A." printed on top of case	Power, radio interference suppressor			CTT	151989	151989	<b>2-751, 2-752</b>	2		-	-	-
Z <b>-</b> 752	Same as Z-751	Line, radio interference suppressor											

