

28 TRANSMITTER-DISTRIBUTOR BASE

ANSWER-BACK MECHANISM

ADJUSTMENTS

CONTENTS	PAGE
1. GENERAL	1
2. BASIC UNIT	3
ANSWER-BACK ASSEMBLY	3
Answer-back position	9
Armature extension	3
Auxiliary contact gap	8
Cam and code blade lever spring	8
Cam follower code blade clearance	9
Cam follower guide	4
Clutch latching contact gap	9
Clutch latch contact spring	8
Clutch latchlever spring	7
Clutch magnet armature bail spring	7
Clutch shoe lever	4
Clutch shoe lever spring	5
Clutch shoe spring	6
Clutch stop arm	4
Clutch trip arm gap	3
Clutch trip lever	3
Clutch trip lever spring	7
Detent lever spring	10
Detent roller position	10
Distributor block assembly	5
Distributor cam follower spring	6
Distributor contact gap	5
Distributor rocker compression spring	6
Distributor rocker spring	6
Drive plate spring	11
Feed pawl backstop	11
Feed pawl clearance (final)	10
Feed pawl clearance (preliminary)	10
Feed pawl spring	10
Message drum endplay	9
3. CODING THE ANSWER-BACK ASSEMBLY	11
1. GENERAL	
1.01 This section has been revised to include recent engineering changes and additions, and to rearrange the text, so as to bring the	

section generally up-to-date. Since this is an extensive revision, marginal arrows ordinarily used to indicate changes have been omitted.

1.02 This section contains the specific requirements and adjustments for the 28 transmitter-distributor base answer-back mechanism.

1.03 Maintenance procedures which apply only to mechanisms of a particular design, are so indicated in the titles of the paragraphs which contain these particular adjustment requirements.

1.04 The adjustments of each unit are arranged in a sequence that should be followed if a complete readjustment of the unit were undertaken. The tools and spring scales required to perform these adjustments are listed in the applicable section. After an adjustment is completed, be sure to tighten any nuts or screws that are loosened. The adjusting illustrations indicate tolerances, positions of moving parts, spring tensions and the angles at which scales should be applied when measuring spring tensions.

1.05 References made to left or right, up or down, front or rear, etc apply to the unit in its normal operating position as viewed from the front.

1.06 When a requirement calls for a clutch to be disengaged, the clutch shoe lever must be fully latched between its trip lever and latchlever so that the clutch shoes release their tension on the clutch drum.

Note: When the distributor shaft is rotated by hand, the clutch does not fully disengage upon reaching its stop position. In order to relieve drag and permit the main shaft to rotate freely, apply pressure on the lug of the clutch disk with a screwdriver to cause it to engage its latchlever and fully disengage the clutch.

1.07 All electrical contact points should meet squarely. Contacts with the same diameter should not be out of alignment more than 25 per cent of the contact diameter. Check contacts for pitting and corrosion and clean or burnish them before making specified adjust-

ment or tolerance measurement. Avoid sharp kinks or bends in the contact springs.

CAUTION: KEEP ALL ELECTRICAL CONTACTS FREE OF OIL AND GREASE.

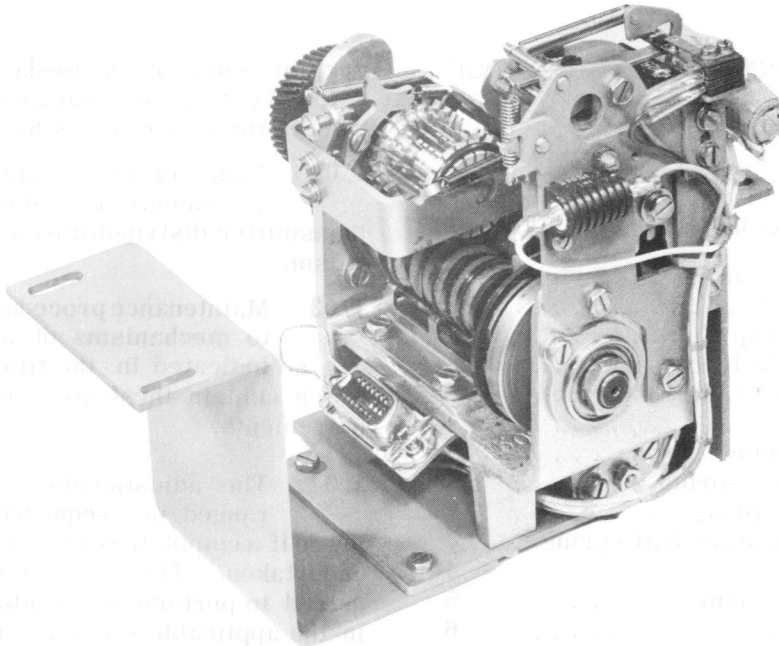


Figure 1 - 28 Transmitter-Distributor Base Answer-Back Mechanism (Front View)

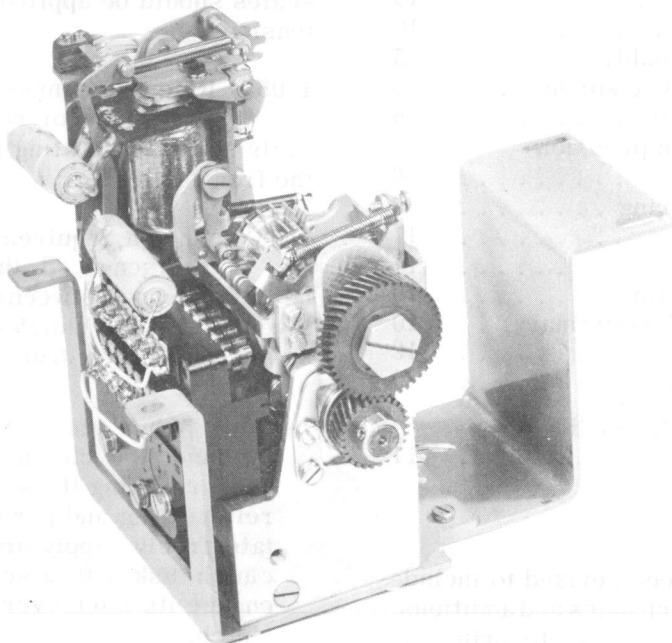


Figure 2 - 28 Transmitter-Distributor Base Answer-Back Mechanism (Rear View)

2. BASIC UNIT

2.01 Clutch Triplever and Armature Mechanism

CLUTCH TRIP ARMATURE AIR GAP

REQUIREMENT

AIR GAP BETWEEN ARMATURE AND MAGNET ASSEMBLY BRACKET:
 MIN. 0.004 INCH --- MAX. 0.008 INCH
 WHEN ARMATURE IS HELD FLUSH AGAINST MAGNET CORE.

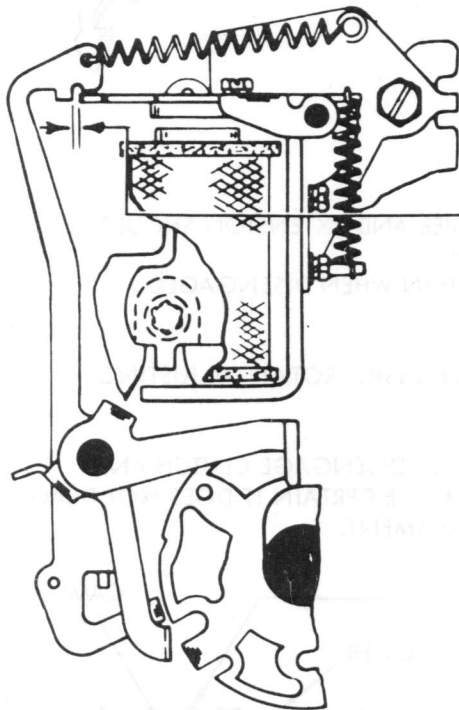
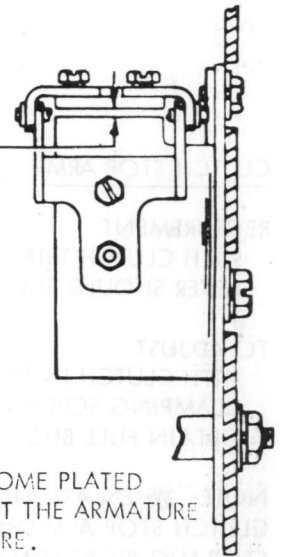
TO ADJUST

REMOVE ARMATURE EXTENSION SPRING. LOOSEN SPRING POST AND HINGE MOUNTING SCREW AND POSITION HINGE.

TO CHECK:

APPLY AC POWER. IF EXCESS CHATTER IS PRESENT, REFINE THE ADJUSTMENT BY INCREASING OR DECREASING THE AIR GAP UNTIL THE CHATTER IS ELIMINATED

NOTE: THIS IS A REVERSIBLE ARMATURE. FOR USE WITH DC CURRENT, THE HEAVY CHROME PLATED SIDE STAMPED C MUST BE FACING THE MAGNET CORE. FOR USE WITH AC CURRENT THE ARMATURE MUST BE REVERSED SO THAT THE SIDE STAMPED C IS AWAY FROM THE MAGNET CORE.



CLUTCH TRIP LEVER

REQUIREMENT

CLEARANCE BETWEEN ARMATURE EXTENSION LEVER AND LATCHING SURFACES OF CLUTCH TRIP LEVER:
 MIN. 0.020 INCH --- MAX. 0.030 INCH
 WHEN CLUTCH TRIP LEVER IS ON HIGH PART OF CAM.

TO ADJUST

LOOSEN PLATE ADJUSTING SCREW AND PLATE MOUNTING SCREW. INSERT SCREWDRIVER IN SLOT ADJACENT TO ADJUSTING SCREW AND POSITION PLATE FOR REQUIRED CLEARANCE.

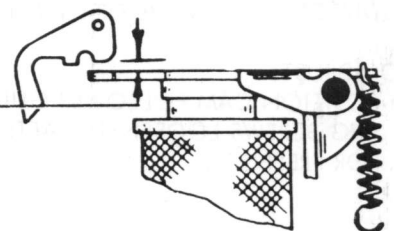
ARMATURE EXTENSION

REQUIREMENT

CLEARANCE BETWEEN ARMATURE EXTENSION LEVER AND CLUTCH TRIP LEVER
 MIN. 0.030 INCH --- MAX. 0.040 INCH
 WHEN CLUTCH TRIP LEVER IS ON HIGH PART OF CAM AND ARMATURE IS FLUSH AGAINST CORE (PLAY TAKEN UP WITH SPRING).

TO ADJUST

LOOSEN BRACKET MOUNTING SCREW AND BRACKET ADJUSTING SCREW AND INSERT SCREWDRIVER INTO SLOT BELOW ADJUSTING SCREW, AND ADJUST BRACKET.



2.02 Clutch Stop Arm, Clutch Lever, and Cam Follower Guide

CLUTCH STOP ARM

REQUIREMENT

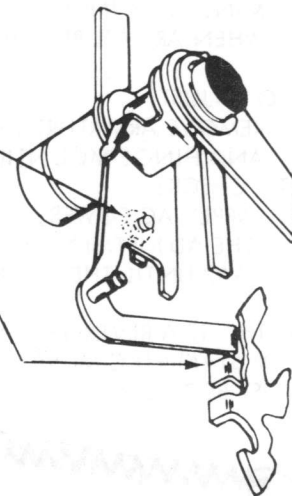
WITH CLUTCH TRIP LEVER IN LATCHED POSITION, CLUTCH LEVER SHOULD FULLY ENGAGE CLUTCH SHOE LEVER.

TO ADJUST

WITH CLUTCH IN STOP POSITION, LOOSEN CLUTCH TRIP CLAMPING SCREW AND ADJUST CLUTCH STOP LEVER TO OBTAIN FULL BITE WITH CLUTCH SHOE LEVER.

NOTE: WHEN ARMATURE IS IN ATTRACTED POSITION, CLUTCH STOP ARM SHOULD CLEAR STOP LEVER AND STOP LUG BY AT LEAST SOME CLEARANCE.

CLUTCH TRIP CLAMPING SCREW



CLUTCH SHOE LEVER

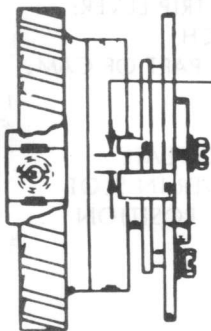
REQUIREMENT

CLEARANCE BETWEEN CLUTCH SHOE LEVER AND EXTENSION SHOULD BE MIN. 0.055 INCH --- MAX. 0.085 INCH
GREATER WHEN CLUTCH IS ENGAGED THAN WHEN DISENGAGED.

TO ADJUST

LOOSEN TWO CLAMP SCREWS IN CLUTCH DISK. ROTATE ADJUSTING DISK TO OBTAIN PROPER CLEARANCE.

NOTE: AFTER ABOVE ADJUSTMENT IS MADE, DISENGAGE CLUTCH AND ROTATE DRUM IN NORMAL ROTATION TO MAKE CERTAIN IT DOES NOT DRAG ON SHOES. IF DRUM DRAGS, REFINE ADJUSTMENT.



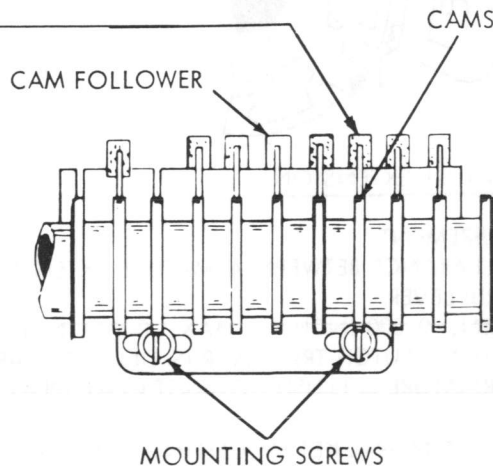
CAM FOLLOWER GUIDE

REQUIREMENT

CAM FOLLOWER GUIDE ORIENTED SO CENTER CAM FOLLOWER IS FULLY ON CAM WHEN FOLLOWER IS MOVED SIDWAYS IN GUIDE SLOT. OTHER MUST HAVE AT LEAST 75% BITE WHEN MOVED IN EITHER DIRECTION, AND BE FREE IN THEIR GUIDE SLOTS.

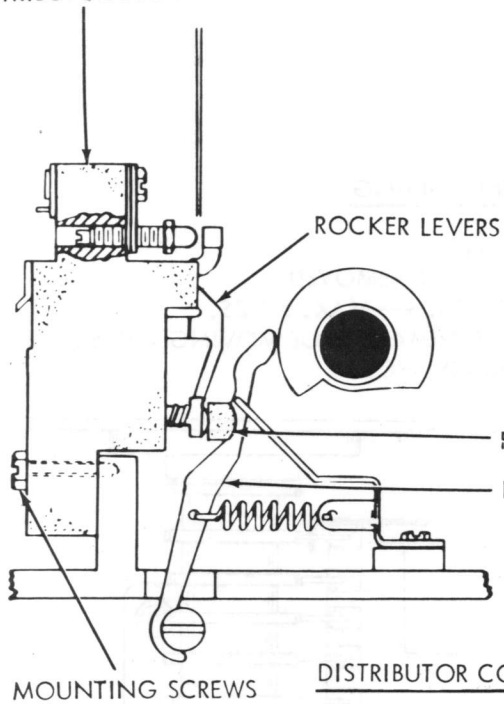
TO ADJUST

POSITION CAM FOLLOWER GUIDE WITH ITS MOUNTING SCREWS LOOSENED. AFTER TIGHTENING, CHECK FOR FREENESS.



2.03 Distributor Block Assembly, Distributor Contact Gap, and Clutch Shoe Lever Spring

DISTRIBUTOR BLOCK ASSEMBLY



DISTRIBUTOR BLOCK ASSEMBLY

REQUIREMENT

DISTRIBUTOR BLOCK ASSEMBLY POSITIONED ON CASTING SO THAT ROCKER LEVERS ARE FULLY ENGAGED WITH THE BAKELITE ON THE FOLLOWER LEVERS.

TO ADJUST

LOOSEN DISTRIBUTOR BLOCK ASSEMBLY MOUNTING SCREWS AND POSITION BLOCK LEFT OR RIGHT TO OBTAIN REQUIREMENT.

DISTRIBUTOR CONTACT GAP

REQUIREMENT

CONTACT GAP SHOULD BE MIN. 0.020 INCH --- MAX. 0.030 INCH WITH CAM FOLLOWER LEVER ON HIGH PART OF CAM.

TO ADJUST

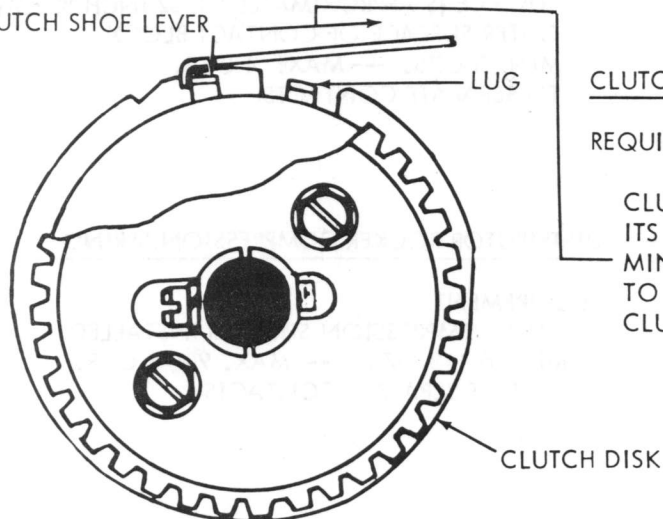
TURN CONTACT SCREW AT SOCKET END UNTIL DESIRED GAP IS OBTAINED. CHECK ALL CONTACT GAPS.

NOTE: POSITION FOLLOWER ON HIGH OF CAM BY TRIPPING CLUTCH MANUALLY AND ROTATING DISTRIBUTOR SHAFT.



CONTACT SCREW

CLUTCH SHOE LEVER



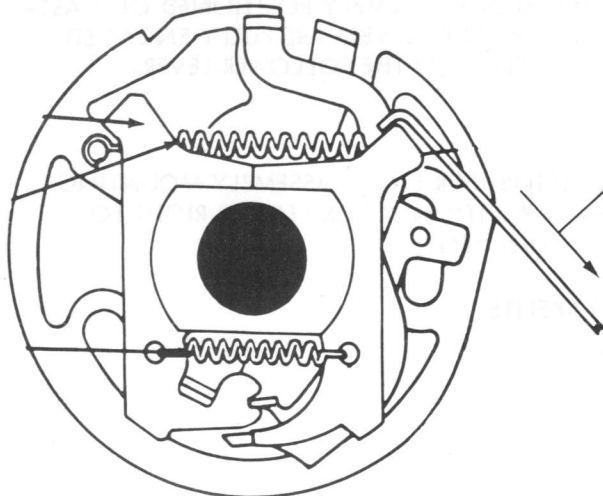
CLUTCH SHOE LEVER SPRING

REQUIREMENT

CLUTCH ENGAGED. CLUTCH DISK HELD TO PREVENT ITS TURNING:
MIN. 15 OZS. --- MAX. 20 OZS.
TO PULL SHOE LEVER IN CONTACT WITH LUG ON CLUTCH DISK.

2.04 Clutch Shoe and Distributor Cam Follower Springs, Distributor Rocker and Compression Springs

NOTE: AS IT REQUIRES REMOVAL OF CLUTCH FROM SHAFT, THIS SPRING TENSION SHOULD NOT BE CHECKED UNLESS THERE IS GOOD REASON TO SUSPECT THAT IT WILL NOT MEET ITS REQUIREMENT.

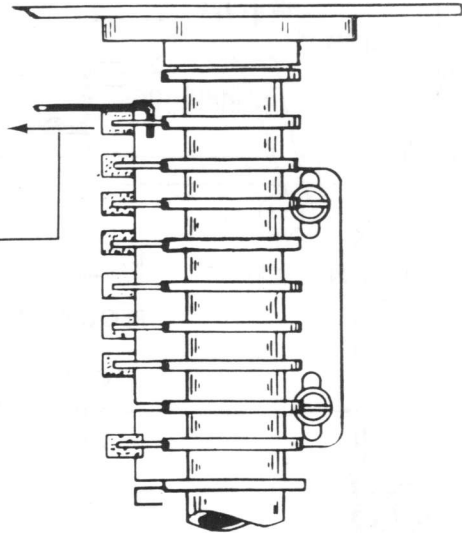


CLUTCH SHOE SPRING

REQUIREMENT
CLUTCH DRUM REMOVED.
MIN. 3 OZS. --- MAX. 5 OZS.
TO START PRIMARY SHOE MOVING AWAY FROM
SECONDARY SHOE.

DISTRIBUTOR CAM FOLLOWER SPRING

REQUIREMENT
DISTRIBUTOR BLOCK REMOVED
MIN. 1/2 OZ. --- MAX. 1-1/2 OZ.
TO START CAM FOLLOWER LEVER MOVING WHEN
LEVER IS ON HIGH OF CAM.



ROCKER SPRING

COMPRESSION SPRING

DISTRIBUTOR ROCKER SPRING

REQUIREMENT
WITH COMPRESSION SPRINGS REMOVED AND
CONTACTS INITIALLY ADJUSTED SO CONTACT
SURFACE IS APPROXIMATELY 1/32 INCH BELOW
OUTER SURFACE OF CONTACT BLOCK:
MIN. 3 OZS. --- MAX. 4 OZS.
TO SEPARATE CONTACTS.

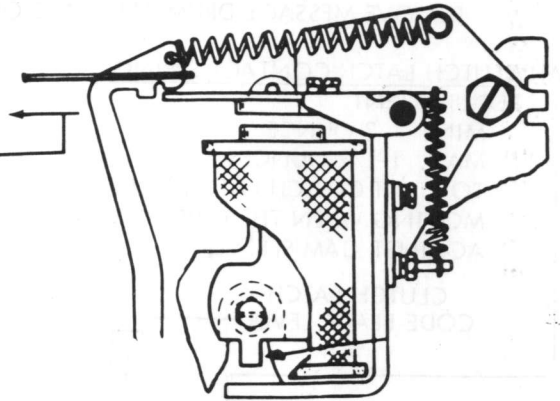
DISTRIBUTOR ROCKER COMPRESSION SPRING

REQUIREMENT
WITH COMPRESSION SPRINGS INSTALLED
MIN. 6-1/2 OZS. --- MAX. 9-1/2 OZS.
TO JUST SEPARATE CONTACTS.

2.05 Clutch Trip Lever, Magnet Armature Bail, and Latch Lever Springs

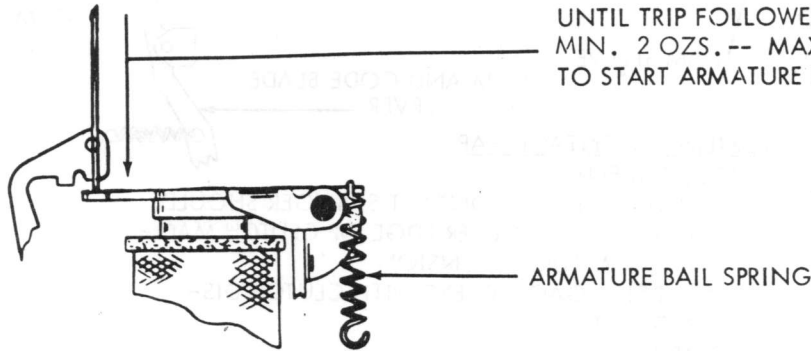
CLUTCH TRIP LEVER SPRING

REQUIREMENT
 CLUTCH TRIPPED AND ARMATURE HELD AGAINST MAGNET CORE .
 MIN. 2 OZS. --- MAX. 3-1/2 OZS.
 TO START TRIP LEVER MOVING .



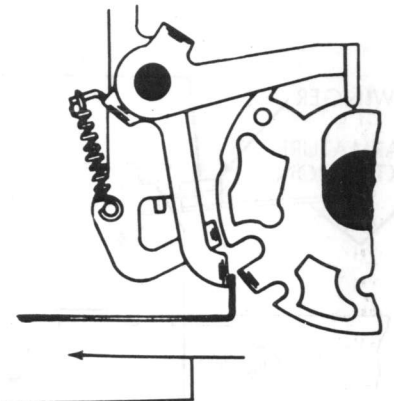
CLUTCH MAGNET ARMATURE BAIL SPRING

REQUIREMENT
 CLUTCH MAGNET TRIPPED AND SHAFT ROTATED MANUALLY
 UNTIL TRIP FOLLOWER IS ON HIGH OF CAM.
 MIN. 2 OZS. -- MAX. 4-1/2 OZS.
 TO START ARMATURE EXTENSION LEVER MOVING .



CLUTCH LATCH LEVER SPRING

REQUIREMENT
 CLUTCH LATCH LEVER ON LOW OF CLUTCH DISK (BUT NOT
 LATCHED)
 MIN. 2-1/2 OZS. --- MAX. 4-1/2 OZS.
 TO START LATCH LEVER MOVING .



2.06 Clutch Latch Contact, Cam and Code Blade Springs, and Auxiliary Contact Gap

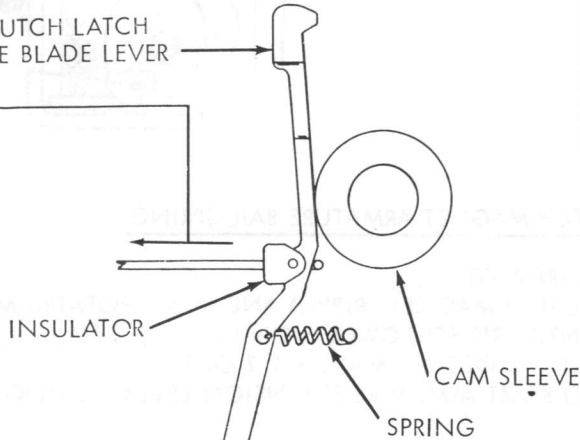
NOTE: TO CHECK TENSIONS (A) AND (B), REMOVE ENTIRE ANSWER BACK MECHANISM FROM ITS BRACKET, REMOVE MESSAGE DRUM AND TAKE OFF THE CONTACT BLOCK.

(A) CLUTCH LATCH CONTACT SPRING

REQUIREMENT

MIN. 1/2 OUNCE
 MAX. 1-1/2 OUNCES
 TO START CLUTCH LATCH CODE BLADE LEVER MOVING WHEN THE LEVER IS RESTING AGAINST CAM SLEEVE.

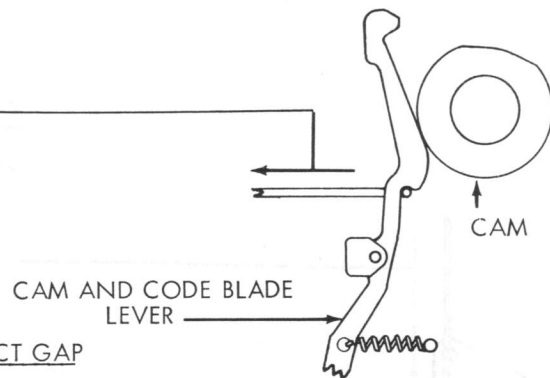
CLUTCH LATCH
 CODE BLADE LEVER



(B) CAM AND CODE BLADE LEVER SPRING
 REQUIREMENT

MIN. 1-1/2 OUNCES
 MAX. 2-1/2 OUNCES
 TO START CAM AND CODE BLADE LEVERS MOVING WHEN THE LEVERS ARE ON HIGH PART OF RESPECTIVE CAMS.

REASSEMBLE ANSWER BACK MECHANISM



(C) AUXILIARY CONTACT GAP

1. REQUIREMENT

INSULATOR ON CONTACT SWINGER SHOULD BE FLUSH WITH OUTER EDGE OF CLUTCH MAGNET ARMATURE EXTENSION
 TO CHECK - GAGE BY EYE WITH CLUTCH DISENGAGED.
 TO ADJUST POSITION CONTACT ASSEMBLY BRACKET WITH TWO MOUNTING SCREWS LOOSENED.

2. REQUIREMENT

GAP BETWEEN SWINGER CONTACT AND LOWER CONTACT SHOULD BE
 MIN. 0.012 INCH --- MAX. 0.020 INCH
 TO CHECK UNIT IN STOP POSITION (CLUTCH DISENGAGED) AND CLUTCH MAGNET ARMATURE RELEASED (NOT ATTRACTED).

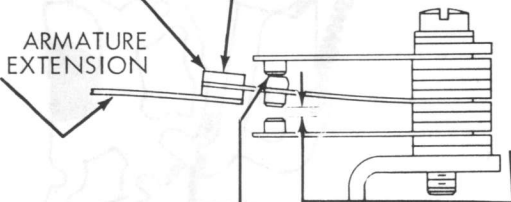
3. REQUIREMENT

a. GAP BETWEEN SWINGER CONTACT AND UPPER CONTACT SHOULD BE CLOSED UNDER CONDITIONS OF REQUIREMENT 2.

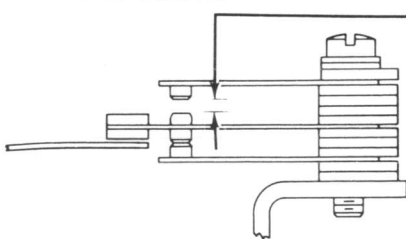
b. GAP BETWEEN SWINGER CONTACT AND UPPER CONTACT SHOULD BE
 MIN. 0.012 INCH --- MAX. 0.020 INCH

TO CHECK CLUTCH TRIPPED AND ARMATURE HELD ATTRACTED.
 TO ADJUST BEND UPPER CONTACT SPRING FOR BOTH a AND b.

SWINGER
 ARMATURE EXTENSION



CONTACT ASSEMBLY BRACKET
 MOUNTING SCREWS



2.07 Answer-Back Position, Message Drum End Play, Cam Follower Blade Clearance and Clutch Latching Contact Gap

(D) CLUTCH LATCHING CONTACT GAP
REQUIREMENT

GAP BETWEEN CLUTCH LATCHING CONTACTS SHOULD BE
MIN. 0.025 INCH
MAX. 0.035 INCH

TO CHECK
ROTATE MESSAGE DRUM UNTIL CLUTCH LATCH CODE BLADE LEVER IS RESTING ON STOP PROJECTION OF STOP BLADE.

TO ADJUST
POSITION CONTACT SCREW

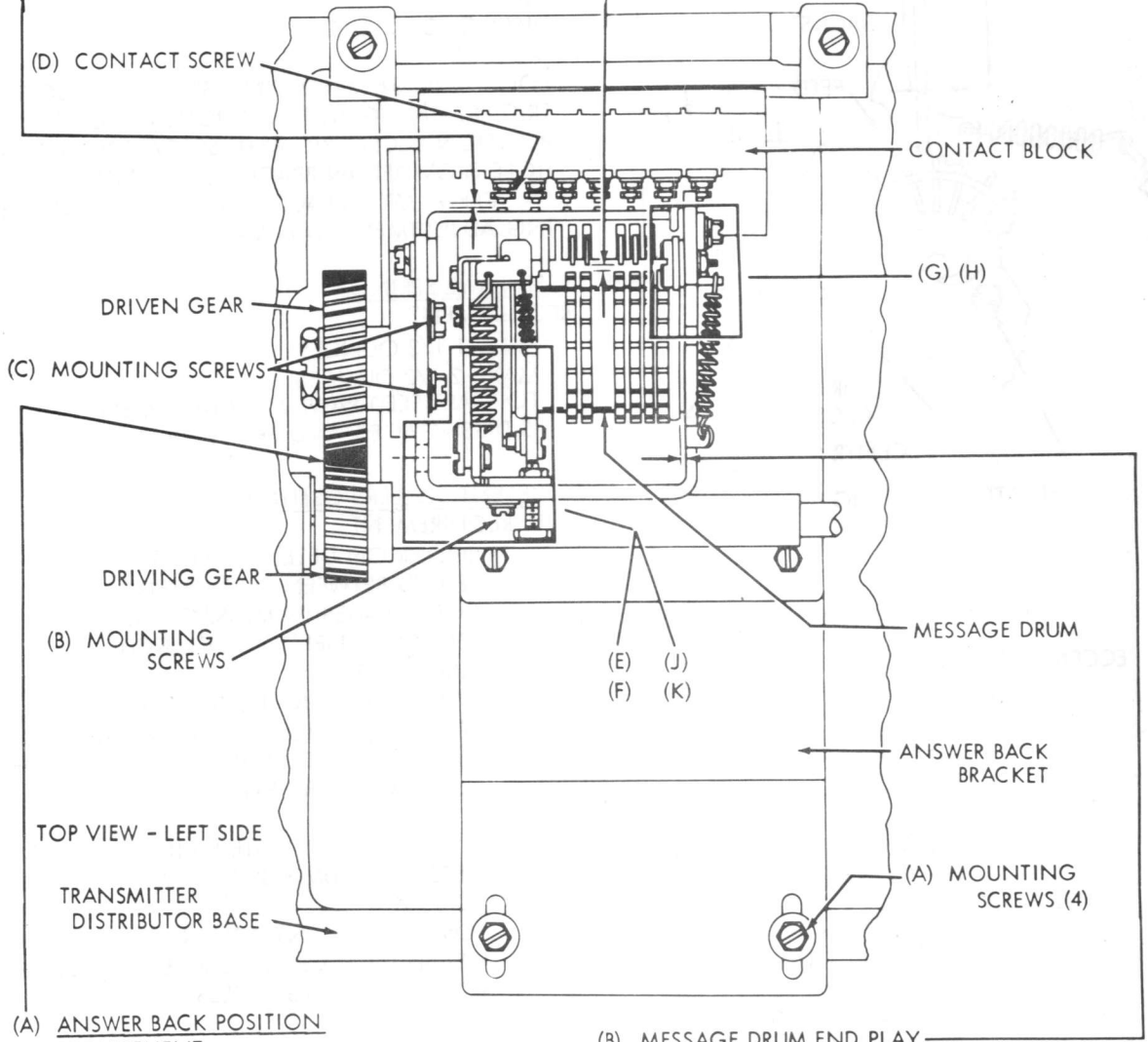
(C) CAM FOLLOWER CODE BLADE CLEARANCE

REQUIREMENT

CLEARANCE BETWEEN CAM FOLLOWER CODE BLADE AND ASSOCIATED TINE ON CODE BLADE OF MESSAGE DRUM SHOULD BE
MIN. 0.007 INCH --- MAX. 0.030 INCH

TO CHECK
DISENGAGE CLUTCH. TINES OF CODE BLADES SHOULD BE OPPOSITE PROJECTIONS OF CAM FOLLOWER CODE BLADES.

TO ADJUST
POSITION BRACKET WITH MOUNTING SCREWS LOOSENED.



(A) ANSWER BACK POSITION
REQUIREMENT

BACKLASH BETWEEN DRIVEN GEAR AND ITS DRIVER SHOULD BE
MIN. 0.005 INCH
MAX. 0.010 INCH

TO ADJUST
POSITION ANSWER BACK BRACKET WITH 4 MOUNTING SCREWS LOOSENED.

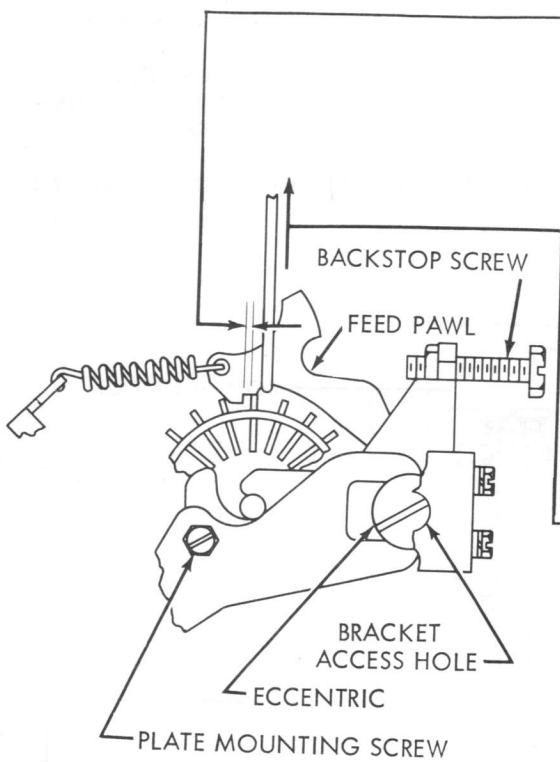
(B) MESSAGE DRUM END PLAY
REQUIREMENT

END PLAY BETWEEN MESSAGE DRUM AND BRACKET OR DRIVE PLATE SHOULD BE
MIN. SOME
MAX. 0.012 INCH

TO ADJUST
POSITION REAR MESSAGE DRUM BRACKET WITH THE TWO MOUNTING SCREWS LOOSENED. KEEP BRACKET SQUARE WITH DRUM DRIVE PLATE. FEED PAWL MUST CONTACT BACKSTOP SCREW BY MORE THAN HALF PAWL THICKNESS.

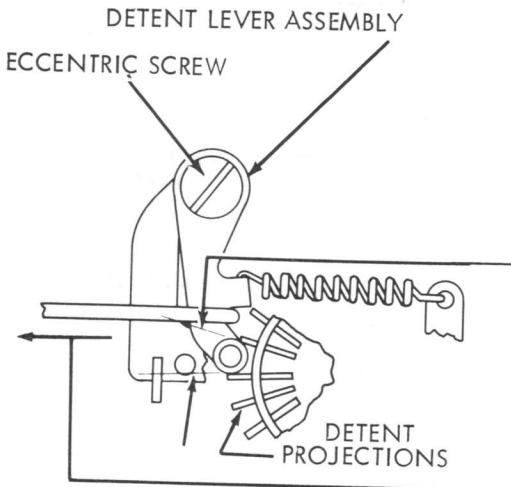
2.08 Feed Pawl Clearance (Preliminary and Final), Feed Pawl and Detent Lever Springs, and Detent Roller Position

NOTE: REMOVE SHOULDER SCREW AND TAKE OFF ANSWER-BACK DRIVEN GEAR



(E) FEED PAWL CLEARANCE (PRELIMINARY)
 REQUIREMENT
 CLEARANCE BETWEEN LATCHING SURFACE OF FEED PAWL AND FEED PROJECTION OF CODE BLADE ON MESSAGE DRUM SHOULD BE
 MIN. 0.010 INCH
 MAX. 0.015 INCH
 TO CHECK
 DISENGAGE CLUTCH
 TO ADJUST
 LOOSEN PLATE MOUNTING SCREW AND ECCENTRIC RETAINING NUT TO FRICTION TIGHT. POSITION ECCENTRIC WITH SCREW DRIVER THROUGH HOLE PROVIDED IN BRACKET. DO NOT TIGHTEN NUT OR SCREW, OR REPLACE DRIVEN GEAR UNTIL REFINING ADJUSTMENT (I) IS MADE.

(F) FEED PAWL SPRING
 REQUIREMENT
 MIN. 1 1/2 OUNCES
 MAX. 2 1/2 OUNCES
 TO START FEED PAWL MOVING WHEN THE CLUTCH IS DISENGAGED AND FEED PAWL IN STOP POSITION.

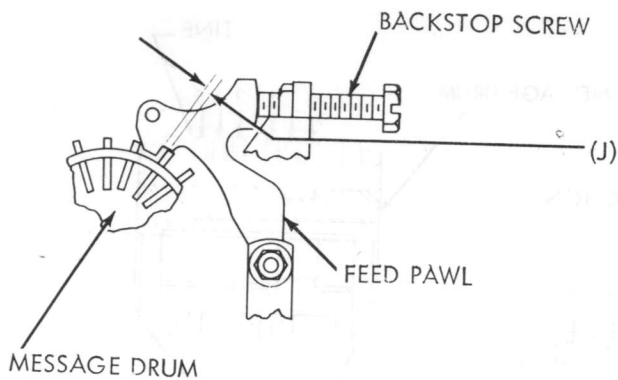


(G) DETENT ROLLER POSITION
 1. REQUIREMENT
 ROLLER ON DETENT LEVER SHOULD BE FIRMLY SEATED BETWEEN TWO DETENT PROJECTIONS OF CODE BLADES IN MESSAGE DRUM.
 TO CHECK - DISENGAGE CLUTCH
 2. REQUIREMENT
 CODE BLADE PROJECTIONS (TINES) ON MESSAGE DRUM SHOULD BE CENTRALLY LOCATED WITH RESPECT TO CAM FOLLOWER CODE BLADE (GAGE BY EYE).
 TO CHECK
 TRIP CLUTCH, ROTATE MAIN SHAFT TO INDEX MESSAGE DRUM FOR NEXT CHARACTER.
 TO ADJUST
 POSITION DETENT ROLLER ASSEMBLY BY MEANS OF ECCENTRIC SCREW LOOSENED TO FRICTION TIGHTNESS.

(H) DETENT LEVER SPRING
 REQUIREMENT
 MIN. 4 OUNCES
 MAX. 5 OUNCES
 TO MAKE DETENT LEVER MOVE WHEN ITS ROLLER IS RESTING BETWEEN TWO DETENT PROJECTIONS ON MESSAGE DRUM AND THE CLUTCH DISENGAGED.

(I) FEED PAWL CLEARANCE (FINAL)
 RECHECK PRELIMINARY FEED PAWL CLEARANCE ADJUSTMENT (E) AND REFINE IF REQUIRED. TIGHTEN NUT AND SCREW AND REPLACE THE DRIVEN GEAR AND SHOULDER SCREW.

2.09 Feed Pawl Backstop and Drive Plate Spring

**(J) FEED PAWL BACKSTOP REQUIREMENT**

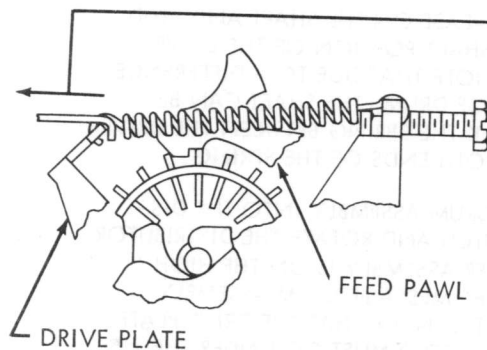
CLEARANCE BETWEEN LATCHING SURFACE OF FEED PAWL AND ADJACENT FEED PROJECTION ON MESSAGE DRUM SHOULD BE
 MIN. 0.010 INCH
 MAX. 0.015 INCH

TO CHECK

TRIP CLUTCH, ROTATE MAIN SHAFT SLOWLY UNTIL FEED PAWL REACHES MAXIMUM REARWARD TRAVEL.

TO ADJUST

LOOSEN LOCK NUT AND POSITION BACKSTOP SCREW.

**(K) DRIVE PLATE SPRING REQUIREMENT**

MIN. 13 OZS.

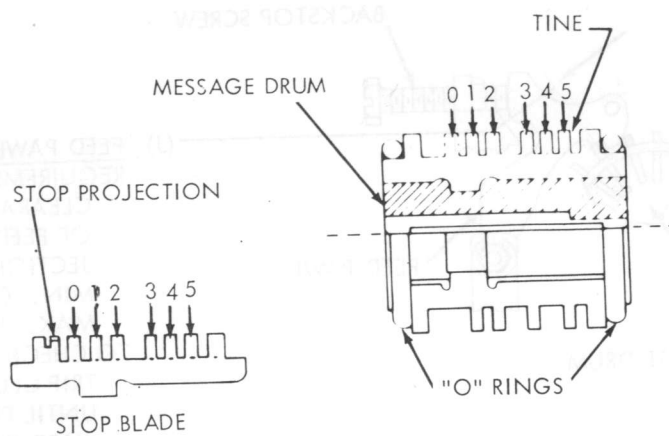
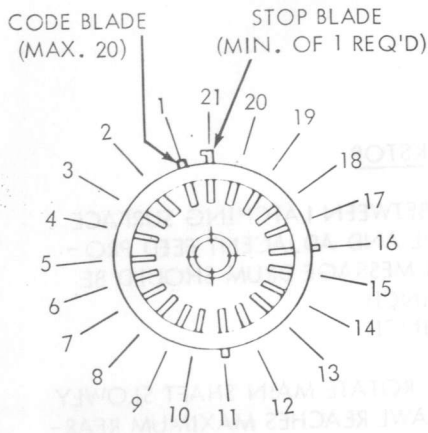
MAX. 16 OZS.

TO MOVE FEED PAWL FROM STOP POSITION (CLUTCH DISENGAGED).

3. CODING THE ANSWER-BACK FEATURE OF THE TELETYPE TRANSMITTER DISTRIBUTOR BASE.

1. THE MESSAGE DRUM HAS A CAPACITY OF 21 CHARACTERS. THE FIRST CHARACTER TRANSMITTED MUST BE A "LETTERS" COMBINATION; THE REMAINING 20 MAY BE ANY CHARACTER DESIRED. CHARACTERS ARE DETERMINED BY DETACHABLE CODE BLADES SET IN THE MESSAGE DRUM. SINCE PROJECTIONS ON THE CODE BLADES ARE USED TO ROTATE THE DRUM, ALL OF ITS 21 SLOTS MUST BE OCCUPIED BY A BLADE.
2. THE LAST CHARACTER TRANSMITTED IS DETERMINED BY A SPECIAL STOP CODE BLADE. THREE STOP BLADES ARE INCLUDED, SO THAT, EQUALLY SPACED ABOUT THE CODE DRUM IT WOULD RESULT IN 3 UNIFORM MESSAGES OF SIX CHARACTERS EACH, PRECEDED BY A "LETTERS" COMBINATION.
3. CODE A BLADE BY BREAKING OFF THE UNWANTED TINES AT THE SCORED LINE AT THE BASE OF THE TINE. THE FIGURES ON PAGE 12 INDICATES WHICH TINES ARE TO BE REMOVED FOR A PARTICULAR CHARACTER. TO PREVENT DISTORTION OF A CODE BLADE, EACH BLADE SHOULD BE HELD SECURELY NEAR THE SCORE MARK OF THE TINE TO BE REMOVED.

CODING THE ANSWER-BACK AS EMBLY Continued



4. PLACE AN "O" RING IN THE GROOVE ON THE RIM OF THE MESSAGE DRUM WHICH IS FURTHEST FROM THE SLOT IN THE CENTER PORTION OF THE DRUM. INSTALL A STOP BLADE IN ANY SLOT POSITION IN THE DRUM BY FIRST INSERTING THE BLADE UNDER THE "O" RING AND THEN ROTATING THE BLADE TOWARD THE CENTER OF THE DRUM UNTIL IT IS FULLY SEATED.

5. CODE THE DRUM IN A COUNTER-CLOCKWISE DIRECTION BEGINNING WITH THE NO. 1 BLADE ADJACENT TO THE STOP BLADE. INSTALL EACH CODED BLADE IN THE PROPER SLOT POSITION INSERTING THE BLADE UNDER THE "O" RING AS IN PARAGRAPH 4.

- — LEAVE TINE
- — REMOVE TINE

6. AFTER FILLING THE DRUM, ENCIRCLE THE BLADES BY PLACING ANOTHER "O" RING IN THE GROOVE ON THE OPPOSITE RIM OF THE DRUM.

7. PLACE A THIN COAT OF GREASE ON THE SHAFT AND STUD OF THE DRIVE PLATE. INSERT THE SHAFT PORTION OF THE DRIVE PLATE INTO THE MESSAGE DRUM (NOTE THAT DUE TO A DIFFERENCE IN HOLE DIAMETERS IN THE MESSAGE DRUM, THE SHAFT CAN BE INSERTED ONLY ONE WAY). HOOK THE SPRING BETWEEN THE DRIVE PLATE AND THE FEED PAWL. OIL BOTH ENDS OF THE SPRING.

8. TO INSERT THE MESSAGE DRUM ASSEMBLY INTO THE DISTRIBUTOR ASSEMBLY, TRIP THE CLUTCH AND ROTATE THE DISTRIBUTOR MAIN SHAFT UNTIL THE DRIVE LEVER ASSEMBLY IS ON THE HIGH PART OF THE CAM, THEN INSERT THE MESSAGE DRUM ASSEMBLY BETWEEN THE MOUNTING BRACKETS. NOTE THAT THE DRIVE PLATE HAS A STUD WELDED ON TO IT; THIS STUD MUST GO UNDER THE DRIVE LEVER ASSEMBLY. THEN ROTATE THE MAIN SHAFT TO LATCH THE CLUTCH. NEXT HOOK THE DRIVE PLATE SPRING BETWEEN THE DRIVE PLATE AND THE SPRING POST PROJECTION ON THE BRACKET. THE DETENT LEVER SPRING SHOULD BE HOOKED ON TO THE SPRING POST PROJECTION OF THE BRACKET, AND THE DETENT LEVER. LUBRICATE THE MECHANISM ACCORDING TO THE LUBRICATION FIGURES.

LETTERS	TYPICAL FIG. ARRG'T	CODE				
		1	2	3	4	5
A	—	■	■	■	■	■
B	?	■	■	■	■	■
C	:	■	■	■	■	■
D	\$	■	■	■	■	■
E	3	■	■	■	■	■
F	!	■	■	■	■	■
G	&	■	■	■	■	■
H	#	■	■	■	■	■
I	8	■	■	■	■	■
J	.	■	■	■	■	■
K	(■	■	■	■	■
L)	■	■	■	■	■
M	.	■	■	■	■	■
N	,	■	■	■	■	■
O	9	■	■	■	■	■
P	0	■	■	■	■	■
Q	1	■	■	■	■	■
R	4	■	■	■	■	■
S	BELL	■	■	■	■	■
T	5	■	■	■	■	■
U	7	■	■	■	■	■
V	;	■	■	■	■	■
W	2	■	■	■	■	■
X	/	■	■	■	■	■
Y	6	■	■	■	■	■
Z	"	■	■	■	■	■
CARRIAGE RETURN		■	■	■	■	■
LINE FEED		■	■	■	■	■
LETTERS SHIFT		■	■	■	■	■
FIGURES SHIFT		■	■	■	■	■
SPACE		■	■	■	■	■
BLANK		■	■	■	■	■

NOTE:

1. STOP BLADE HAS SAME PROVISIONS FOR INDIVIDUAL CODING AS STANDARD CODE BLADE.
2. WHEN CODING THE BLADES REMOVE THE "O" POSITION TINE ON ALL STOP AND CODE BLADES.

