



STEVE

"Selectric" Typewriter

Adjustment Parts Manual

Revised November, 1980

S241-5939-3

IBM "Selectric" Typewriter (7XX)

IBM "Selectric" II Typewriter (8XX)

IBM "Selectric" III Typewriter (670X)

IBM 96 "Selectric" Typewriter (9XX)

The drawings and specifications contained herein shall not be reproduced in whole or in part without written permission.

IBM has prepared this maintenance manual for the use of IBM Customer Engineers in the installation, maintenance and repair of the specific machines indicated. IBM makes no representations that it is suitable for any other purpose.

Information contained in this manual is subject to change from time to time. Any such change will be reported in subsequent revisions or distributed through Customer Engineering Memorandums (CEMs) to all subscribers.

Requests for copies of IBM publications should be made to your IBM representative or to the IBM Branch Office servicing your locality.

Comments about the publications may be addressed to (IBM Corporation, 740 New Circle Road N.W., Information Development, Dept. A58, Lexington, Ky. 40511). IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation whatever. You may, of course, continue to use the information you supply.

"It is possible that this material may contain reference to, or information about, IBM products (machines and programs, programming, or services that are not announced in your country. Such references or information must not be construed to mean that IBM intends to announce such IBM products, programming, or services in your country."

"IBM," "Executive," "IBM EXECUTARY," and "Selectric" are registered trademarks of the IBM Corporation.

© Copyright International Business Machines Corporation 1964, 1966, 1967, 1968, 1969, 1971, 1973, 1975, 1976, 1979, 1980

SAFETY PRECAUTIONS

All IBM Customer Engineers are expected to take every safety precaution possible and observe the following safety practices when servicing IBM equipment.

Mechanical Safety:

1. *Safety glasses must be worn.*
2. *All safety devices, such as guards, shields, signs, ground wires, etc., must be restored after maintenance. When a guard or shield is removed to observe or make an adjustment, that shield must be replaced when work in the area is completed.*
3. *Watches, rings, necklaces, ID bracelets, etc., must be removed when servicing the machine.*
4. *Care must be used when working near moving parts. Keep hair away from moving parts. Avoid wearing loose clothing that might be caught in the machine. Shirt sleeves must be kept buttoned or rolled above the elbows. Ties must be tucked in the shirt or have a tie clasp approximately three inches from the end. Tie chains are not recommended.*

Electrical Safety:

1. *The equipment referenced in this manual may use high voltages. Check voltage labels!*
2. *Safety glasses must be worn when checking energized circuits.*
3. *If a circuit is disconnected for servicing or parts replacement, it must be reconnected and tested before allowing the use of the machine.*
4. *Power should be removed from the machine for servicing whenever possible. Remember, when checking voltages, avoid contacting ground potential, such as metal floor strips, machine frame, etc.*
5. *Meter continuity checks should be used instead of voltage checks whenever possible.*
6. *Do not apply power to any part, component, or subassembly when it is not physically mounted in the machine, or its approved service position.*

General Safety:

1. *Each Customer Engineer is responsible to be certain no action on his/her part makes the product unsafe or exposes customer personnel to hazards.*
2. *Store the removed machine covers in a safe, out of the way place where no one can trip over them.*
3. *If you must leave the machine in a down condition, always install the covers and disconnect the power before leaving the customer's office.*
4. *Always place CE tool kit away from walk areas where no one can trip over it.*
5. *Maintain safe conditions in the area of the machine while performing and after completing maintenance.*
6. *Before starting the equipment, make sure fellow CEs and customer personnel are not in a hazardous position.*
7. *All the machine covers must be in place before the machine is returned to the customer.*

Note: Refer to the Safety CEMs relating to this product(s) for further safety precautions.

INTRODUCTION

This manual is written for both U.S. and World Trade usage. It contains an adjustment section, a parts manual section, and a diagnostics section for the following products:

Product Name	Model	Machine Type
IBM "Selectric" Typewriter	7XX	6121
IBM "Selectric" II Typewriter And IBM Correcting "Selectric" II Typewriter	8XX	6126
IBM "Selectric" III Typewriter And IBM Correcting "Selectric" III Typewriter	670X	6701-05
IBM 96-Character "Selectric" Typewriter	9XX	

World Trade Note: The IBM 96-Character "Selectric" Typewriter applies only to some World Trade countries.

ADJUSTMENT SECTION

Purpose

This section provides a reference for the most commonly used adjustments. Refer to other product service publications if additional information is needed.

Adjustment Identification

The headline of each page shows the product name identification code, product code, and the name of the mechanism covered on that page. Each adjustment is indicated by a black frame number in the top left corner, followed by the adjustment

name and mechanism code/reference number. If one frame covers adjustments for more than one product or product level, they are indicated by the identification code and/or the level number. The machine mode, the view of the drawing, and safety precautions are also noted when required.

Adjustment Sequence

The frame numbers indicate the sequence of adjustments. One adjustment could affect a following adjustment. Therefore, check all the following adjustments in that mechanism. A solid red bar indicates the end of the mechanism.

Red numbers on the bottom left corner of the frame indicate adjustments out of sequence that could be affected and should be checked.

Adjustment Procedure

The part to be adjusted is colored red, and a red arrow shows the direction of movement. Tolerances and/or additional information on how to perform the adjustment are shown when required.

Always use the adjustment tolerance shown in the publication with the latest date.

Call Reporting

Use the mechanism codes/reference numbers shown after the frame number and frame name for call reporting. The reference number is not always the number of the part that is colored red.

PARTS MANUAL SECTION

Introduction

This section contains parts drawings of mechanisms, reference numbers and other special information. It must be used with a separate part number/price list manual which contains reference numbers, part numbers, part descriptions and prices.

Mechanism Identification

The headline of each page shows the product name, identification code and product code covered on that page. The headline of each frame (two frames per page) shows the mechanism name and the mechanism code covered in that frame. Some frames will show a model identification code after the mechanism name. Some mechanisms require more than one frame. However, each mechanism consists of a group of parts that work together to perform a function.

Part Identification

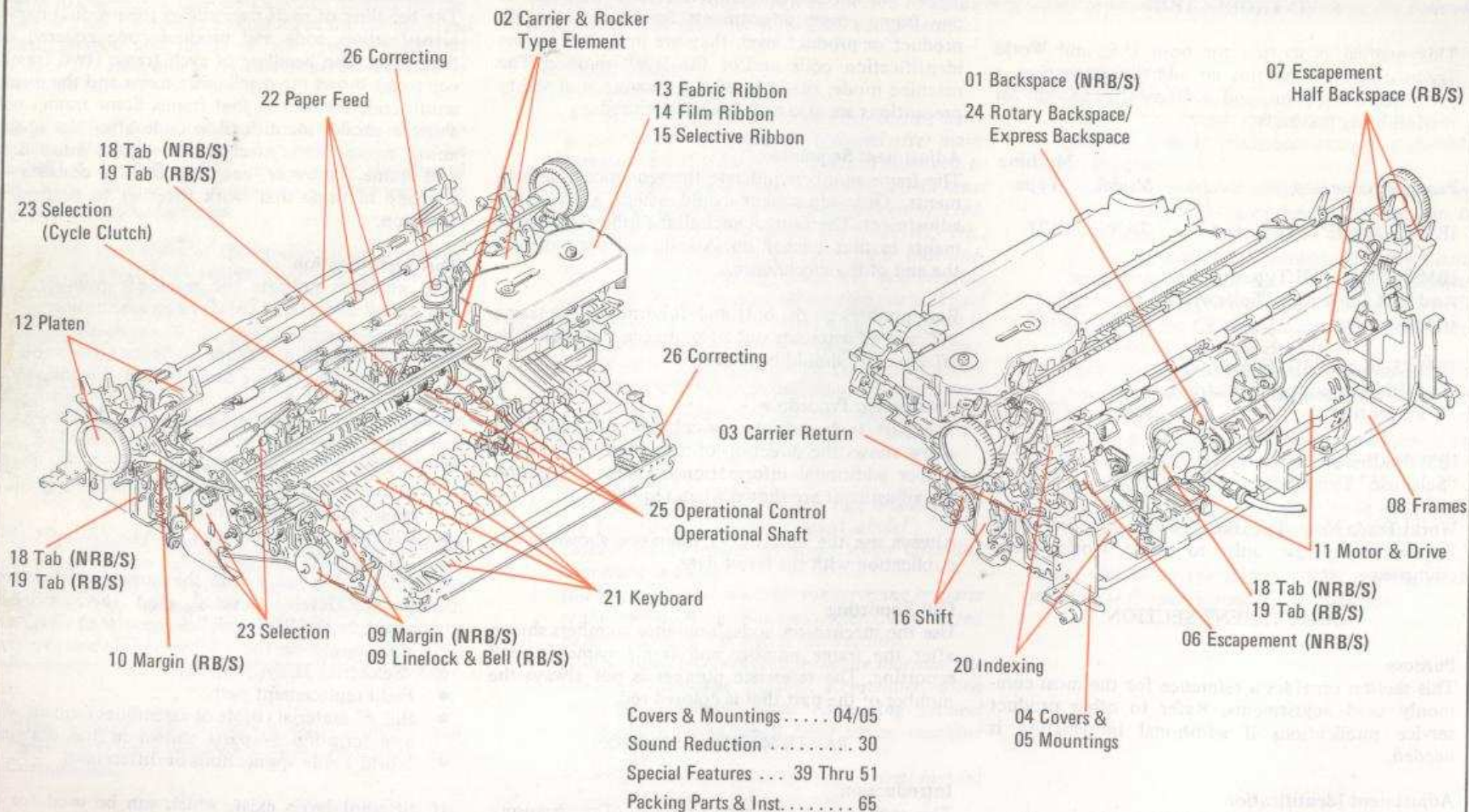
Red numbers indicate the reference number of a part, a bill of material (B/M) or an assembly.

Red blocks within a frame indicate either one, or a combination of more than one, of the following:

- Differences between the models (7XX, 8XX, 670X, or 9XX)
- Different modes within the same model [for example: rotary backspace (RB/S) and non-rotary backspace (NRB/S)]
- Different machine sizes (7X1, 7X3, or 7X5 "Selectric" Typewriter)
- Different levels within the same model, mode, or size (level 1, level 2, etc.). (8X3 and 8X5 apply to the "Selectric" Typewriter.) (XX3 and XX5 apply to the "Selectric" Typewriter and "Selectric" II Typewriter.)
- Field replacement parts
- Bill of material (B/M) or assemblies (shown with a description — parts shown in the drawing)
- World Trade applications or differences

If different levels exist, which can be used for all models, modes or sizes, only the newest level is shown in the drawing. However, the part number/price list manual will show all level parts.

(Continued On Page 4)



IBM "SELECTRIC" TYPEWRITER CONTENTS (Alphabetical)

-3-

PARTS		ADJUSTMENTS	
Mech Code	Page	Mechanism	Frame Page
INTRODUCTION.....1			
<i>Backspace</i>			
24... 91...	Express Backspace	200...	30
07... 70...	Half Backspace	195...	29
01... 63...	Non-Rotary Backspace (NRB/S)	179...	28
24... 91...	Rotary Backspace (RB/S)	183...	28
64...	Cardholder Chart		
02... 63...	Carrier		
03... 66...	Carrier Return	167...	25
23... 90...	Character Selection	55...	11
	Character Selection (Rotate Tool)	78...	14
	Character Selection (Typehead)	67...	13
26... 93...	Correcting	327...	46
04... 67...	Covers & Mountings (7XX)	375...	52
05... 68...	Covers & Mountings (8XX, 9XX)	375...	52
05... 69...	Covers (670X)	375...	52
06... 70...	Escapement (NRB/S)	101...	17
07... 70...	Escapement (RB/S)	101...	17
	Fine Alignment	43...	10
08... 71...	Frames		
20... 84...	Indexing	262...	39
20... 85...	Indexing (Double)	385...	54
20... 85...	Indexing (W.T.)	262...	39
21... 86...	Keyboard	12...	6
21... 87...	Keyboard (Dual Impression)	11...	6
09... 72...	Linelock & Bell	356...	50
09... 71...	Margins (NRB/S)	356...	50
10... 73...	Margins (RB/S)	356...	50
11... 77...	Motor & Drive (Canadian)	1...	5
11... 75...	Motor & Drive (Netherlands)	1...	5
11... 73...	Motor & Drive (U.S.)	1...	5
25... 92...	Operational Control	134...	22
25... 92...	Operational Shaft Assembly		
22... 88...	Paper Feed ("A-Frame")	250...	37
22... 88...	Paper Feed (Tie-Rod)	250...	37
12... 78...	Platen		
	Print	229...	34
13... 78...	Ribbon, Fabric	294...	43
14... 79...	Ribbon, Film	278...	40
15... 80...	Ribbon, Selective	307...	44

PARTS		ADJUSTMENTS	
Mech Code	Page	Mechanism	Frame Page
02... 65...	Rocker (Gear Type Tilt)		
02... 65...	Rocker (Gearless Type Tilt)		
23... 90...	Selection		
16... 80...	Shift	32...	9
17... 81...	Spacebar	152...	24
18... 82...	Tab (NRB/S)	206...	31
19... 83...	Tab (RB/S)	206...	31
02... 65...	Type Elements		

FEATURES

39... 95...	Cardholding Platen		
40... 95...	Dead Key (U.S.)	379...	53
40... 96...	Dead Key (W.T.) Thailand		
40... 95...	Dead Key Disconnect	382...	53
13... 78...	External Ribbon Control	392...	54
45... 97...	Handicapped Attachments		
21... 86...	Manual Velocity Control	394...	55
49... 99...	Overhead Pin Feed Platen (W.T.)		
49... 98...	Pin Feed Platen	397...	55
41... 96...	Shift Sensing (Dual Impression)	402...	56
30... 94...	Sound Reduction		
51... 99...	Stroke Counter		

PARTS		ADJUSTMENTS	
Mech Code	Page	Mechanism	Frame Page

GENERAL INFORMATION

Broken Tapes Check	57
Common Abbreviations	4
Correcting Diagnostics	59
Electrical Safety Check	57
Functional Check	57
Identification Codes	Inside Rear Cover
Lubrication Guide	56
Ribbon Applications	58
Safety Precautions	Inside Front Cover
Service Call Procedure	56
Type Element Arrangement	58
Voltage Checks "Selectric" III	
Dual-Pitch Typewriter	60
Wiring Diagrams	62

BOLT DOWN PARTS AND INSTRUCTIONS

101...	Bolt Down Instructions
04... 67...	Bolt Down Parts (7XX)
05... 69...	Bolt Down Parts (8XX, 9XX, 670X)

PACKING PARTS AND INSTRUCTIONS

65... 102...	Packing (U.S.)
65... 100...	Packing (W.T.)

CHARTS

Cardholder Chart	64
04.....	*Painted Cover Parts (7XX)
05.....	*Painted Covers Parts (8XX, 9XX, 670X)
12.....	*Platen Indexing

*These charts are printed in the Part Number/Price List (P/N 241-5103).

(Introduction Continued From Page 1)

Some parts are shown for assembly purposes only and do not show a reference number. Replace these parts by ordering either the assembly or a later level part.

Parts Ordering

Locate the mechanism in which the part functions by using the contents page. Note the mechanism code, find the part in the drawing, and note the reference number. Use this mechanism code/reference number to locate the part number and price in the part number/price list manual.

World Trade should use the country's procedures to find the prices.

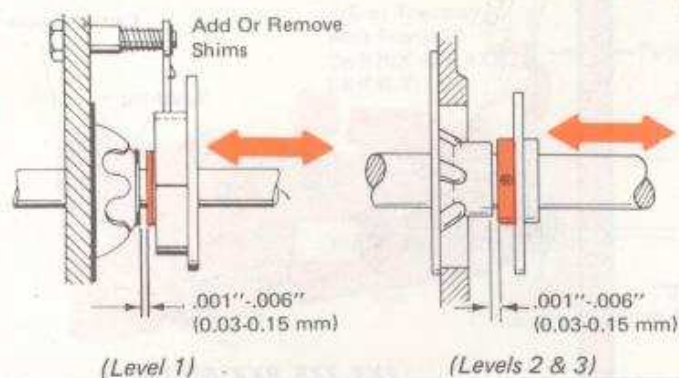
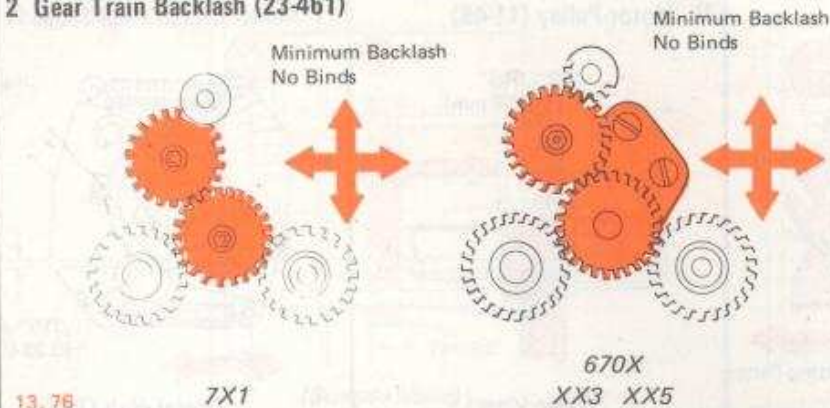
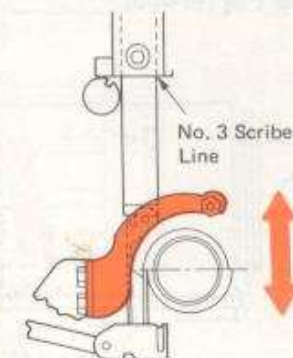
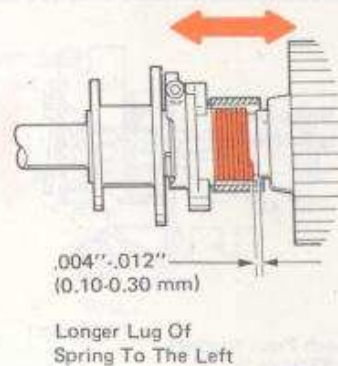
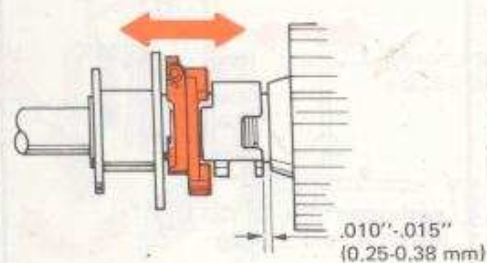
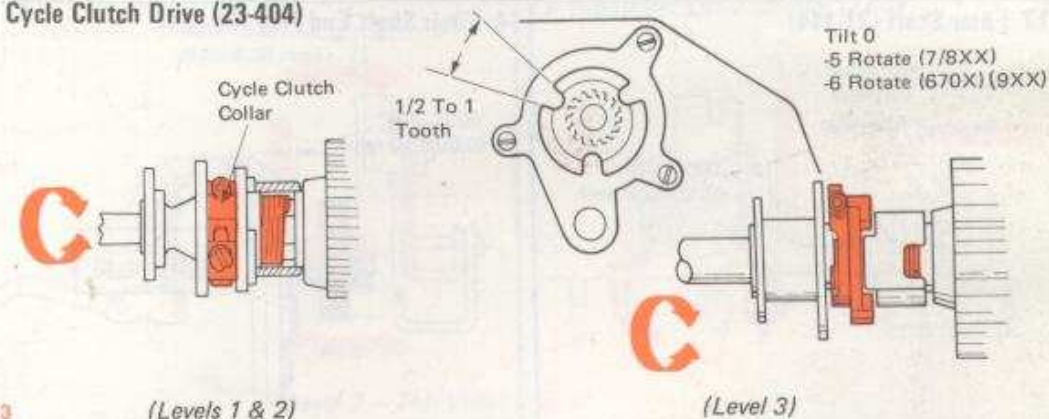
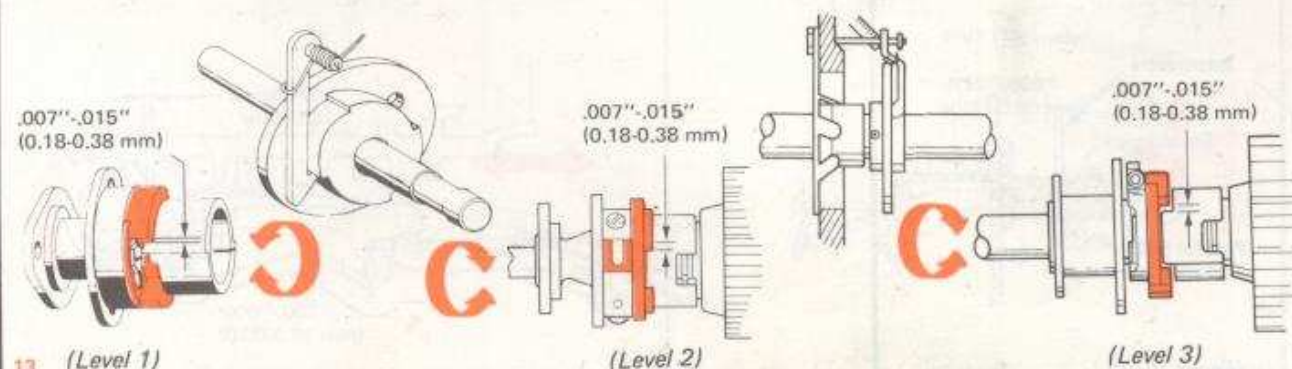
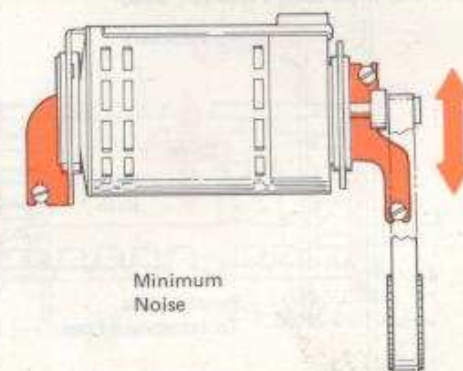
Features and devices (MESs) or specification changes (SERs) desired by the customer must be ordered through CE management and Branch Office sales.

Replacement parts for features, devices and SERs not shown in the parts manual must also be ordered through CE management and Branch Office sales.

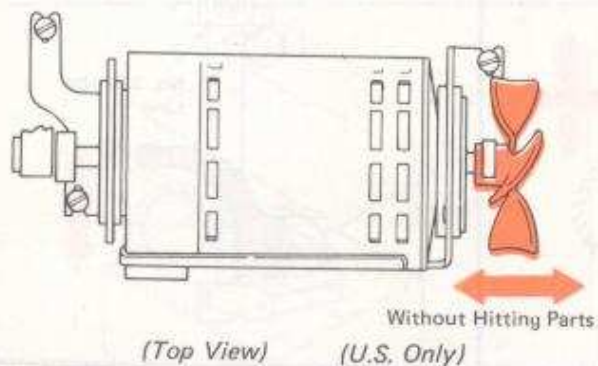
COMMON ABBREVIATIONS

The following list is provided as a reference for some of the common abbreviations used in this manual. It should be noted that some of these are new since the last revision.

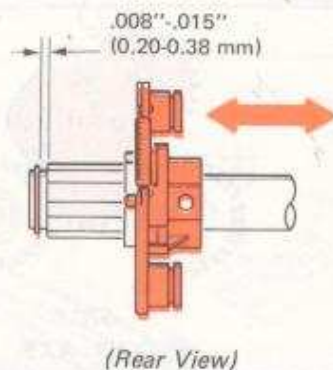
APM	Adjustment Parts Manual
ASM	Assembly
AVC	Automatic Velocity Control
B/M	Bill Of Material
CC	Cycle Clutch
CR	Carrier Return
CSI	Combined Service Information
DI	Dual Impression
DP	Dual Pitch
ECC OT	Eccentric Index Overthrow Stop
FI	Field Installable
FTB	Floating Torque Bar
g	Grams
mm	Millimeters
N	Newtons
NRB/S	Non-Rotary Backspace
PN/PL	Part Number/Price List
Pre-DI	Pre-Dual Impression
Pre-FTB	Pre-Floating Torque Bar
RB/S	Rotary Backspace
SB	Spacebar
SER	Special Engineering Request
SHP	Shop Manual 241-6670
SP	Single Pitch
TII	Technical Information Index
TYP	Type Catalog 241-5687
UBS	Upper Ball Socket
U.S.	United States
W.T.	World Trade

1 Cycle Shaft End Play (23-421)**2 Gear Train Backlash (23-461)****3 Cycle Clutch Latch Bracket (21-532)****4 Cycle Clutch Spring (23-404)****5 Cycle Clutch Sleeve End Play (23-409)****6 Cycle Clutch Drive (23-404)****7 Cycle Clutch Overthrow (23-412)****8 Drive Belt (11-68)**

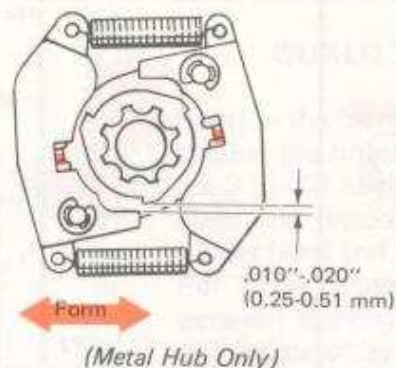
9 Motor Fan (11-400)



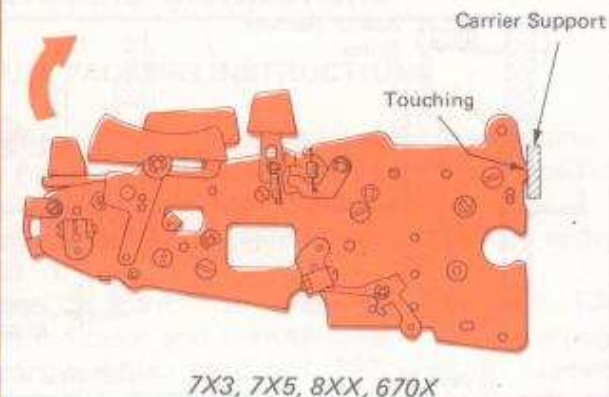
10 Motor Pulley (11-48)



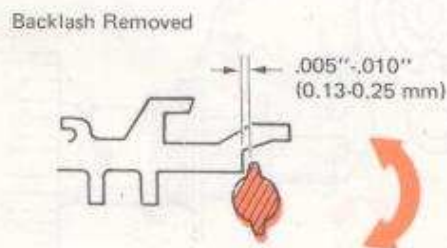
11 Motor Clutch Pawl Stops (11-43)



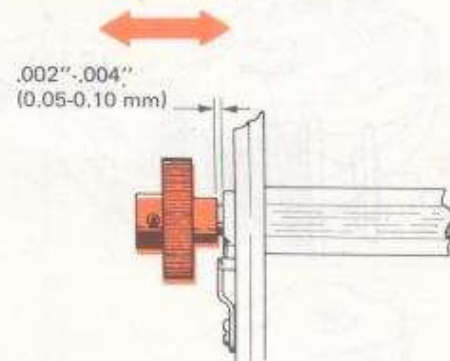
12 Keyboard Position (21-100)



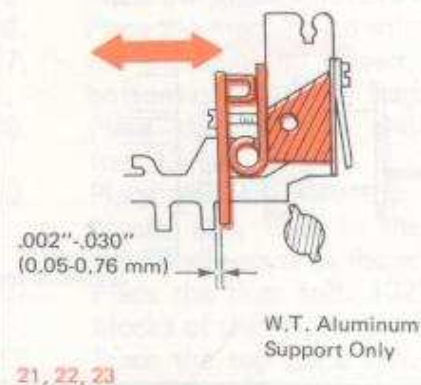
13 Filter Shaft (21-114)



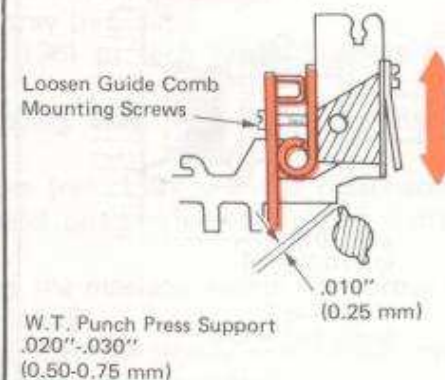
14 Filter Shaft End Play (21-121)



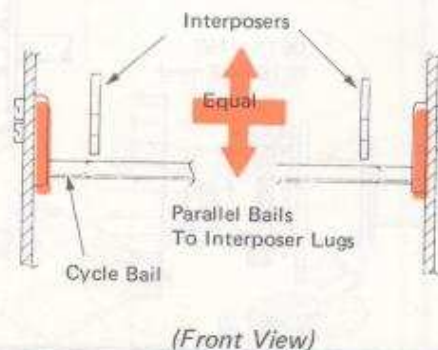
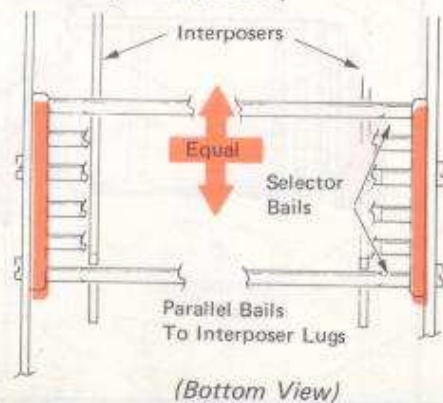
15 Rear Bearing Support (21-06)



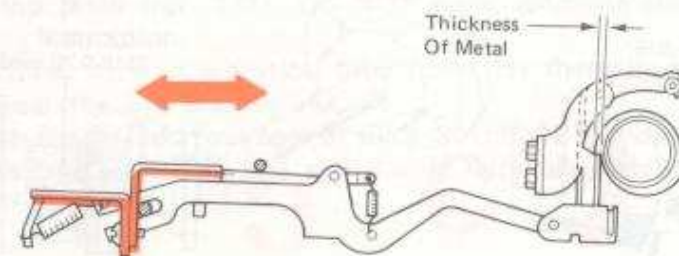
16 Rear Interposer Guide Comb (21-29)



17 Bail Mounting Plate (21-303)

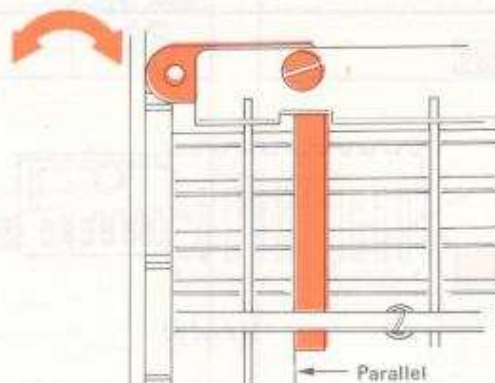
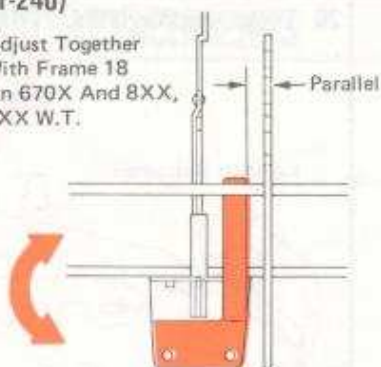


18 Keeper Bracket (21-204)



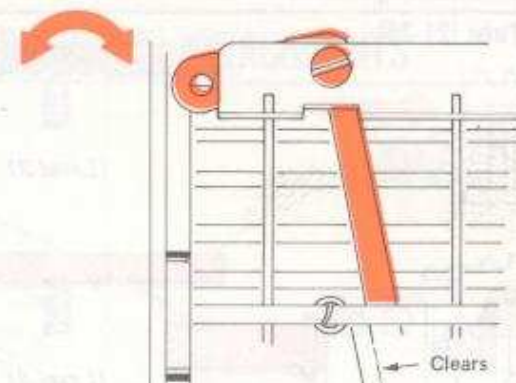
19 Cycle Bail Damper Spring (21-240)

Adjust Together
With Frame 18
On 670X And 8XX,
9XX W.T.



(Bottom View)

(W.T.)

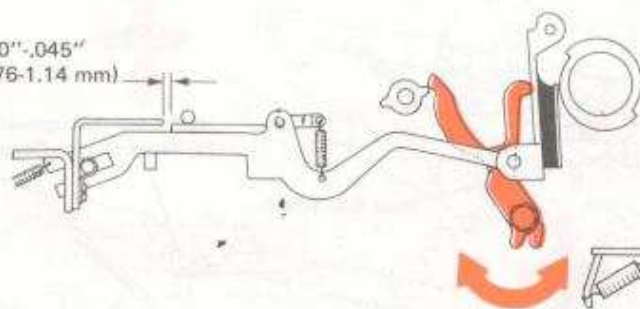


(Bottom View)

(W.T.)

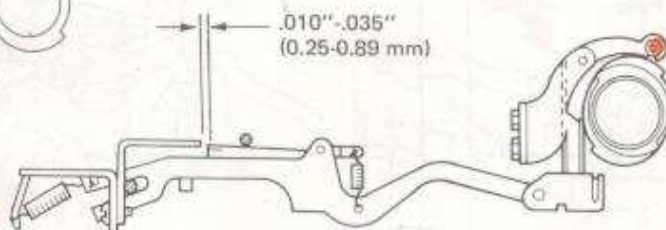
20 Cycle Clutch Latch Restoring (21-206)

.030"-.045"
(0.76-1.14 mm)



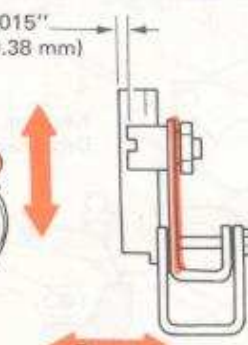
(Level 1)

.010"-.035"
(0.25-0.89 mm)



(Level 2)

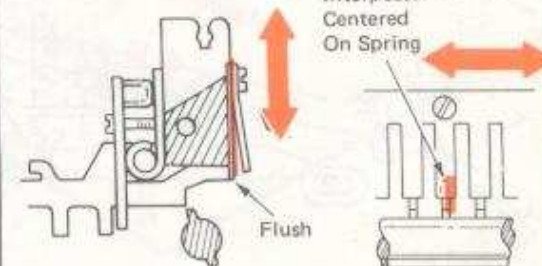
.000"-.015"
(0.00-0.38 mm)



(Level 2 - Top View)

21 Interposer Latch Springs (21-4)

Interposer
Centered
On Spring

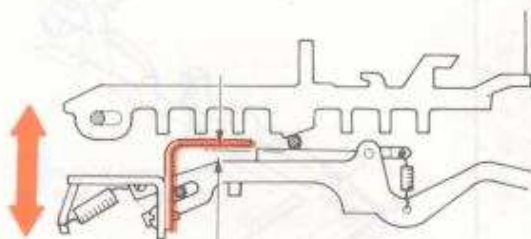


Flush

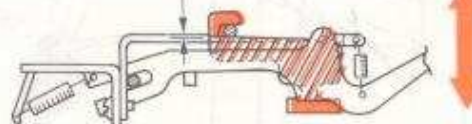
26, 27

22 Cycle Clutch Keeper (21-205)

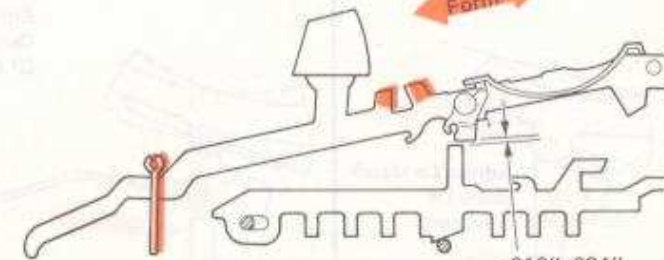
.000"-.002"
(0.00-0.05 mm)

**23 Cycle Bail Upstop (21-208)**

Half Thickness
.030"-.035"
(0.76-0.89 mm)

**24 Front Keylever Guide Comb (21-132)**

Form

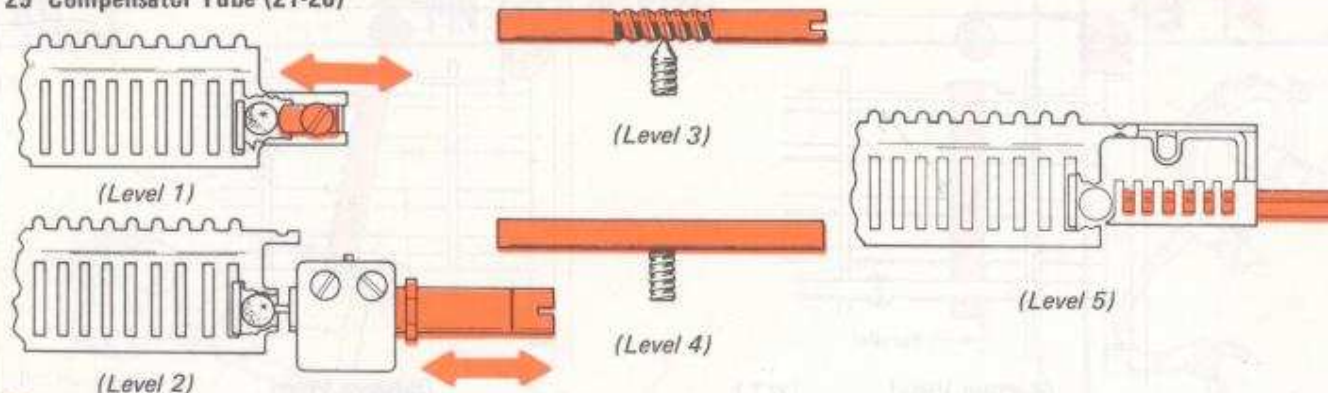


Interposer Must Not Bottom In Rear Guide Comb

.016"-.024"
(0.41-0.61 mm)

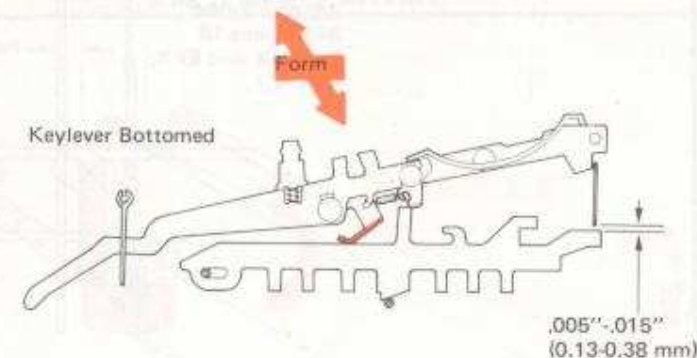
37, 143, 144, 202, 212

25 Compensator Tube (21-28)

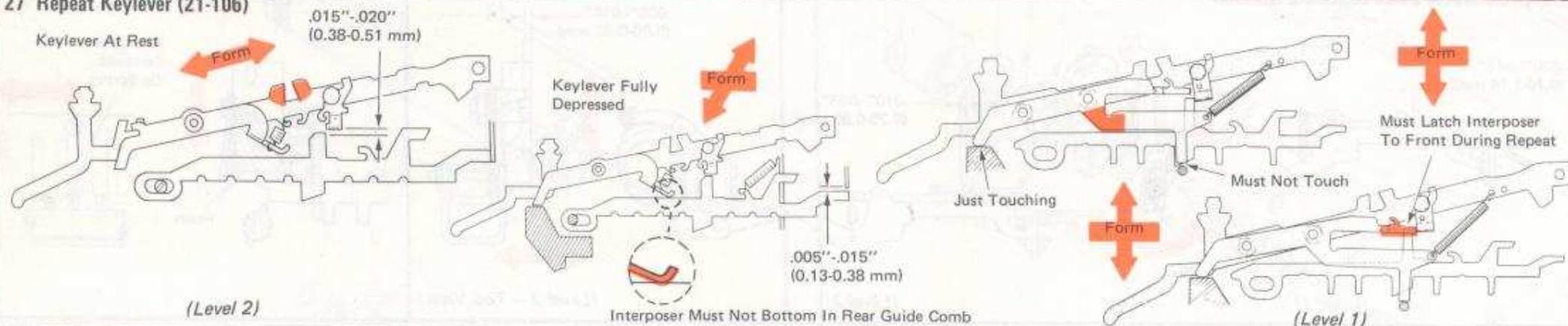


16

26 Typamatic Keylever (21-109)



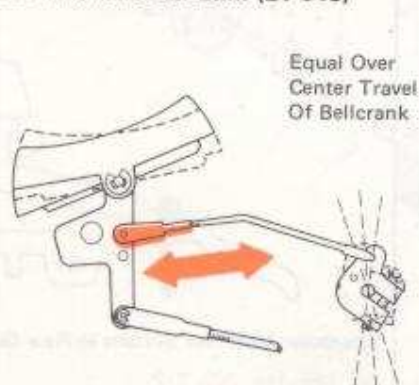
27 Repeat Keylever (21-106)



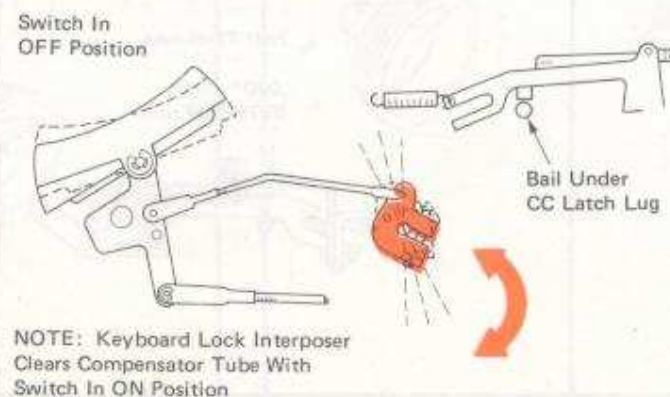
28 Switch Link (21-709)



29 Lockout Bail Link (21-546)

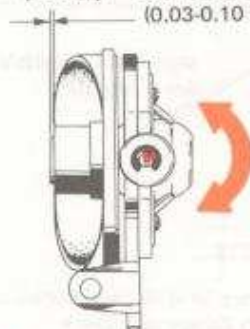


30 Lockout Bail Bellcrank (21-553)



31 Keyboard Lock Bellcrank Link (21-305)



32 Shift Cam Backup Roller (16-46).001"-.004"
(0.03-0.10 mm)

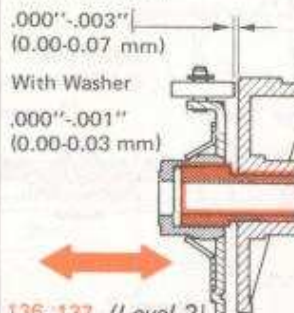
70 (Level 1 - Rear View)

33 Shift Cam Bearing (16-112)

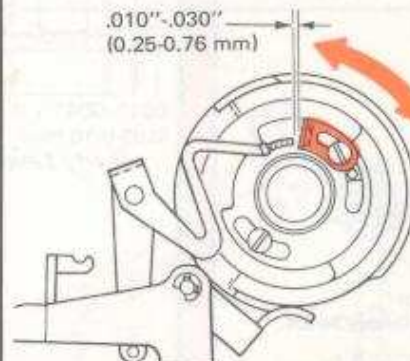
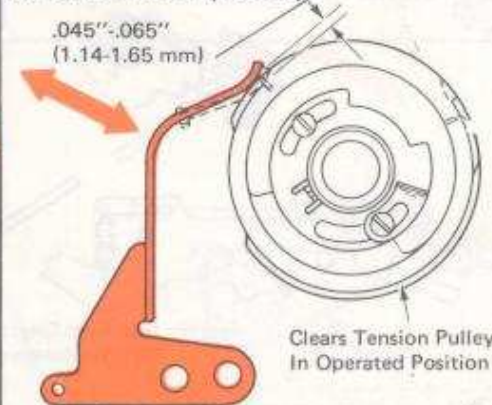
Without Washer

.000"-.003"
(0.00-0.07 mm)

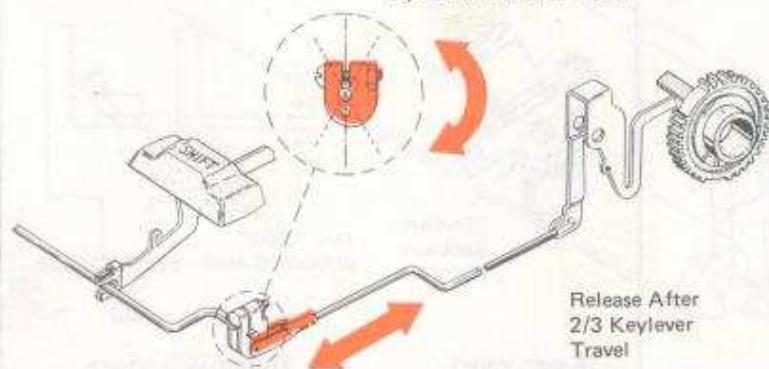
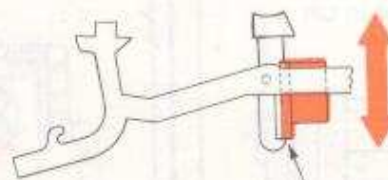
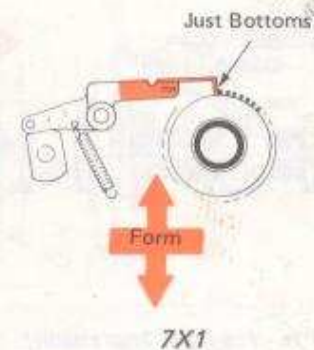
With Washer

.000"-.001"
(0.00-0.03 mm)

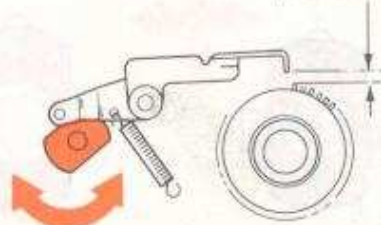
136, 137 (Level 2)

34 Shift Spring Clutch Retaining Plate (16-55)Plastic And Steel Sintered Cam
Upper Case - 1-1/2 To 2 Teeth
Rotation Of Ratchet When
ReleasedEarly Level Metal Cam
Lower Case - 1 Tooth
Rotation Of Ratchet
When Released**35 Shift Overthrow Stop (16-203)**.010"-.030"
(0.25-0.76 mm)**36 Shift Bracket (16-208)**.045"-.065"
(1.14-1.65 mm)Clears Tension Pulley
In Operated Position**37 Shift Release (16-19)**

Equal Over Center Travel

Release After
2/3 Keylever
Travel**38 Shift Lock (16-37)**Adjust To Lock
Just As Shift
Clutch Operates**39 Shift Interlock (16-73)**670X
XX3 XX5

7X1

40 Shift Interlock Cam (16-14).040"-.060"
(1.01-1.52 mm).040"-.060"
(1.01-1.52 mm)670X
XX3 XX5

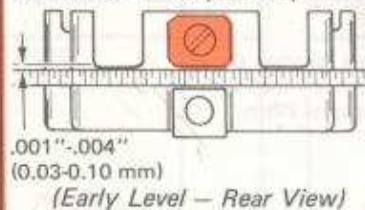
7X1

41 Character Interrupter (21-285)Cycle Clutch
Latch Link
Released
ForwardMinimum
Clearance

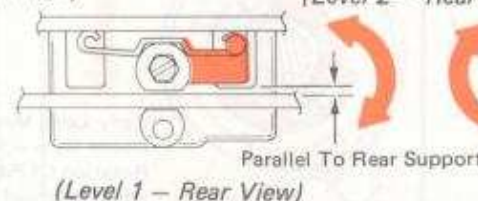
42 Character Interrupter Bracket (21-287)



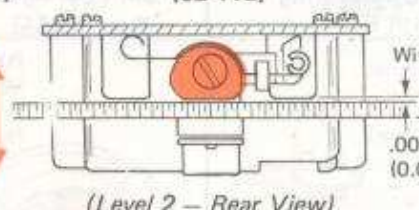
43 Carrier Shoe (02-107)



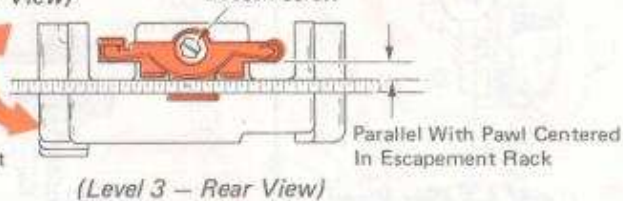
(02-119)



(02-112)



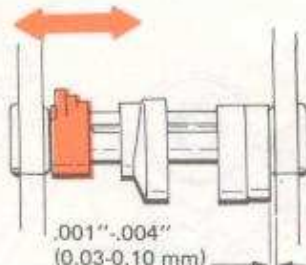
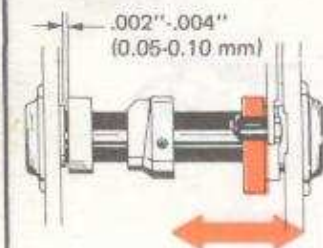
(02-96)



Machines With RB/S
See Frame 92

44 Print Sleeve End Play (02-152)

(26-56)

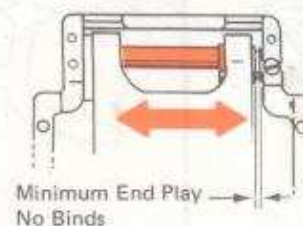


54, 76, 278, 294, 310

(Level 1 - Pre-Dual Impression) (Level 2 - Dual Impression)

(Level 3 - Correcting Only)

45 Rocker End Play (02-530)

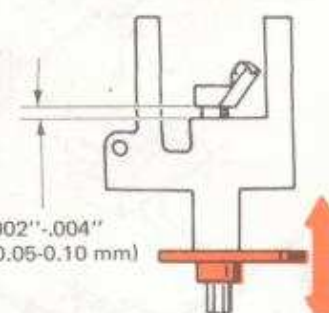


(Top View)

46 Tilt Tube End Play (02-305)

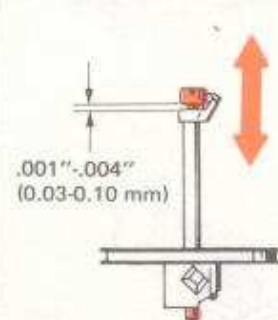


(Front View)

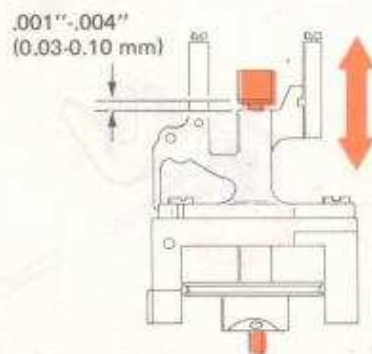


(Right Side View)

47 Rotate Shaft End Play (02-415)

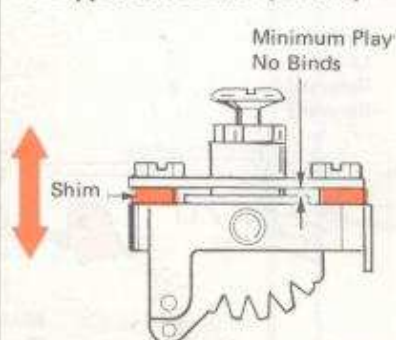


(Pre-Dual Impression)

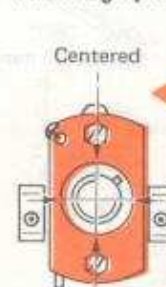


(Dual Impression)

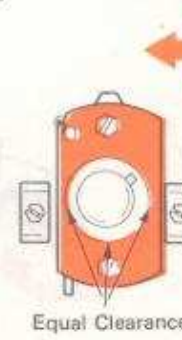
48 Upper Ball Socket (02-400)



49 Tilt Ring Spacer (02-402)



(Level 1)

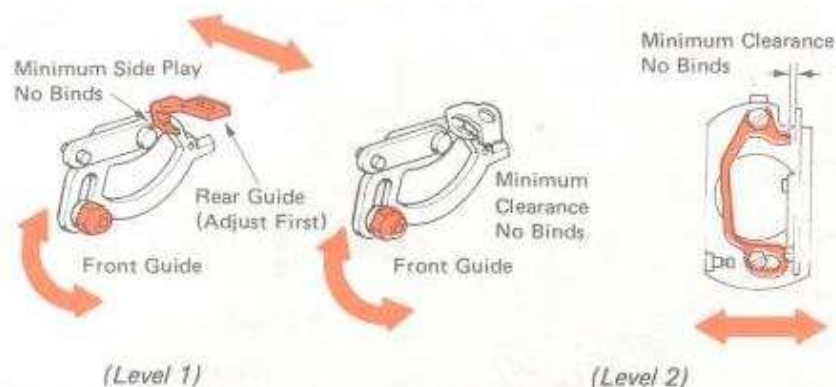


(Level 2)

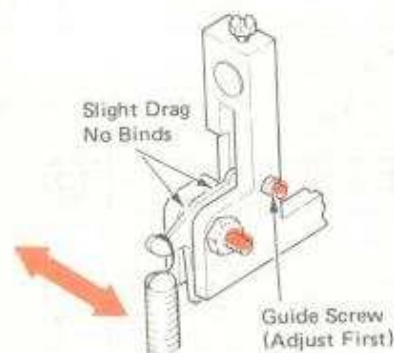


(Level 3)

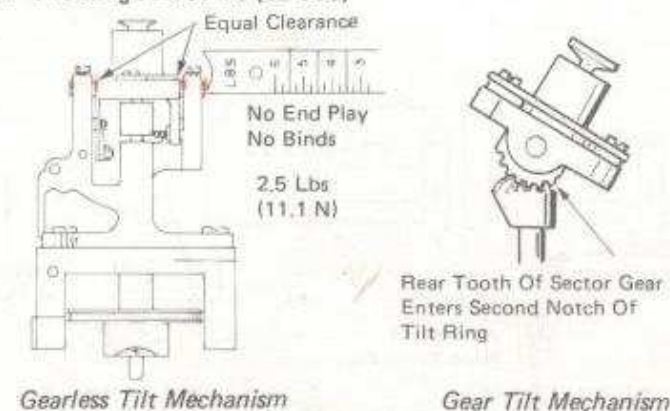
50 Rotate Detent (02-406)



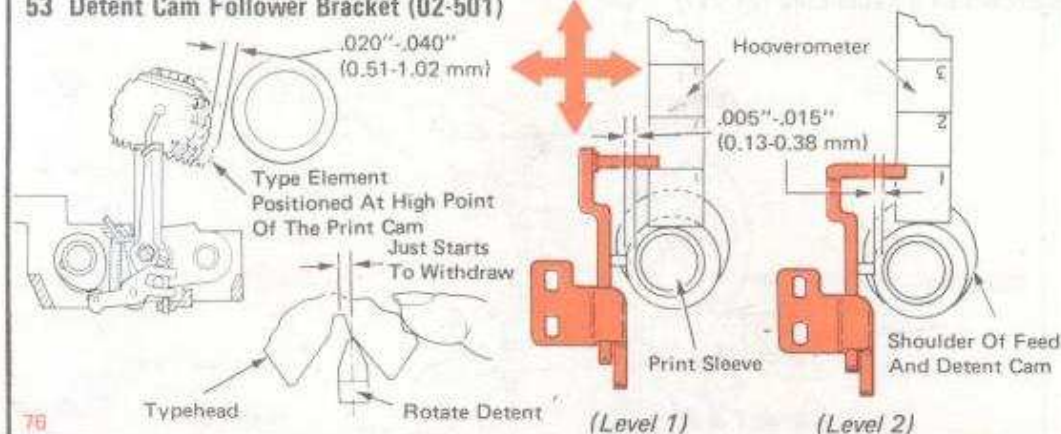
51 Tilt Detent (02-311)



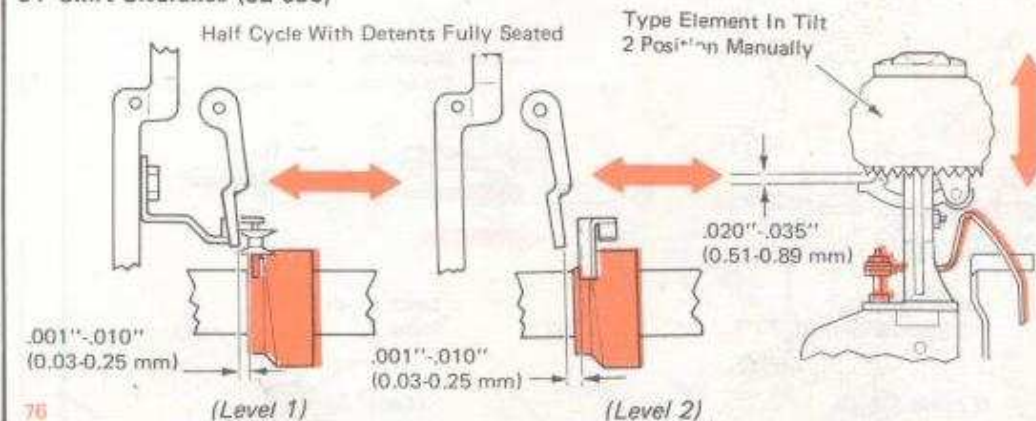
52 Tilt Ring Pivot Pins (02-300)



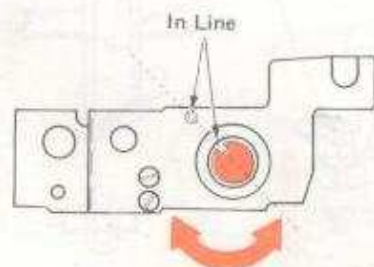
53 Detent Cam Follower Bracket (02-501)



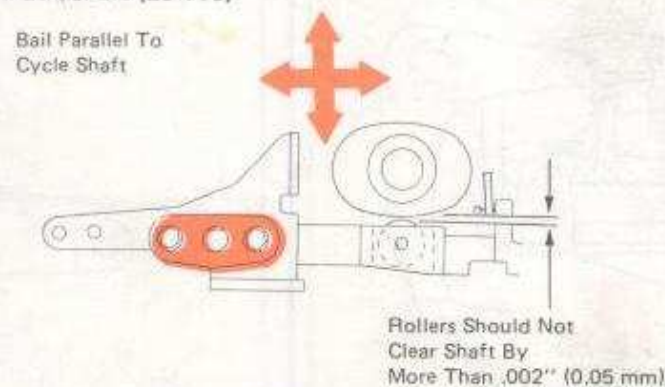
54 Skirt Clearance (02-505)



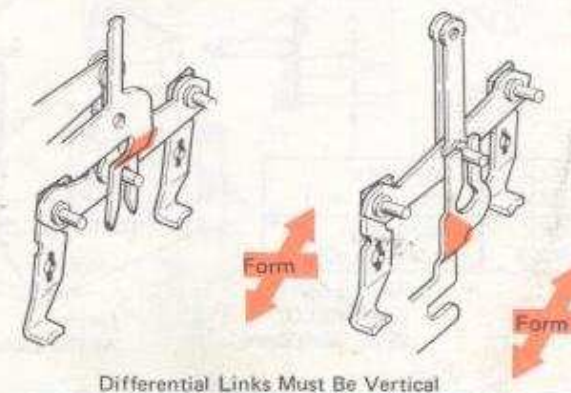
55 Print Shaft Timing (Preliminary) (02-30)



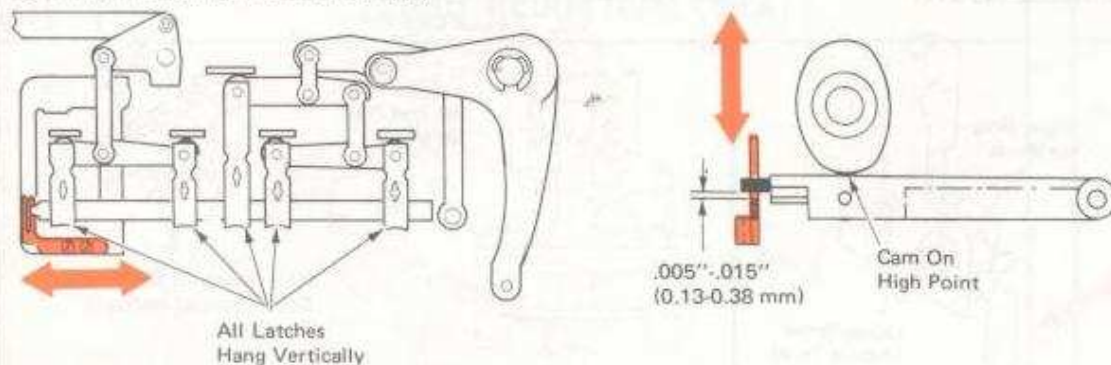
56 Latch Bail Shaft (23-115)



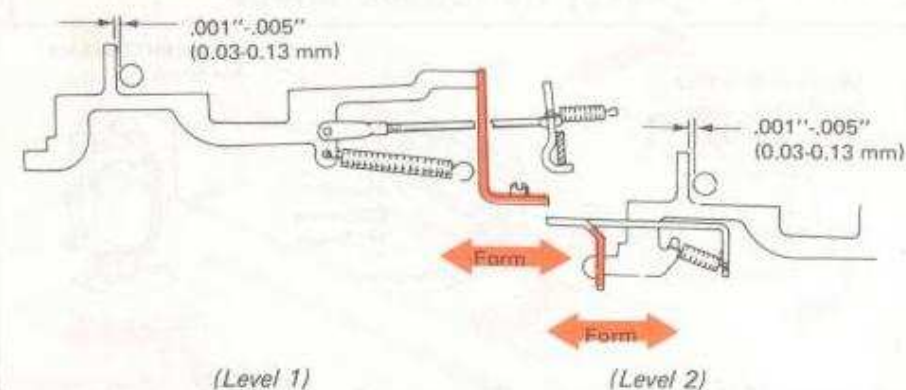
57 Differential Guides (23-207) (23-34)



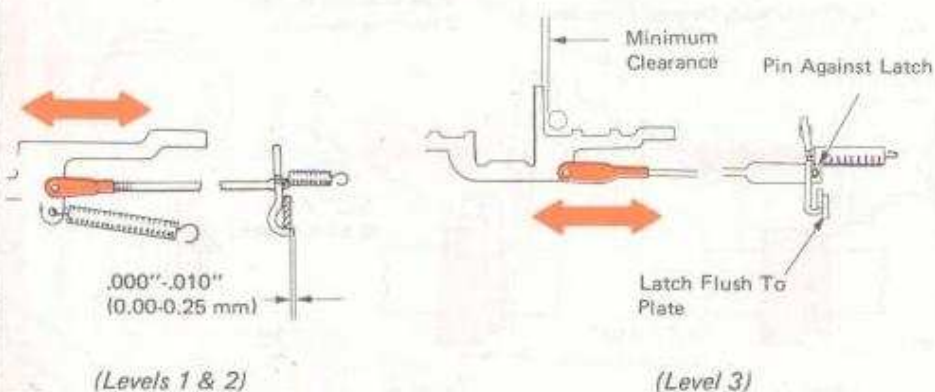
58 Positive Latch Bail Guide (23-107)



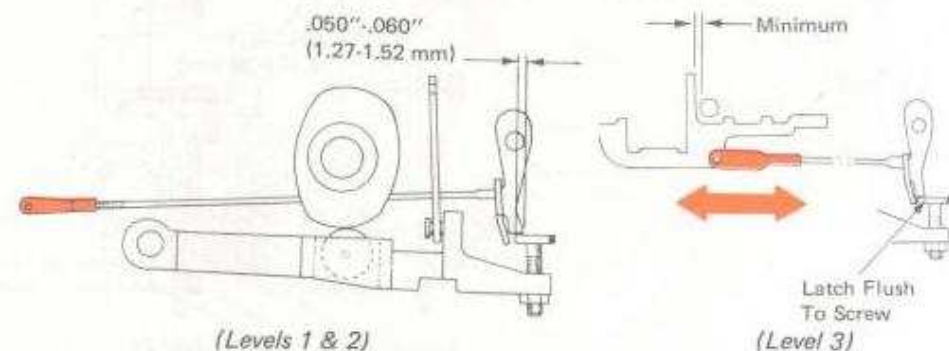
59 Interposer Stop Lugs (21-310) (21-325)



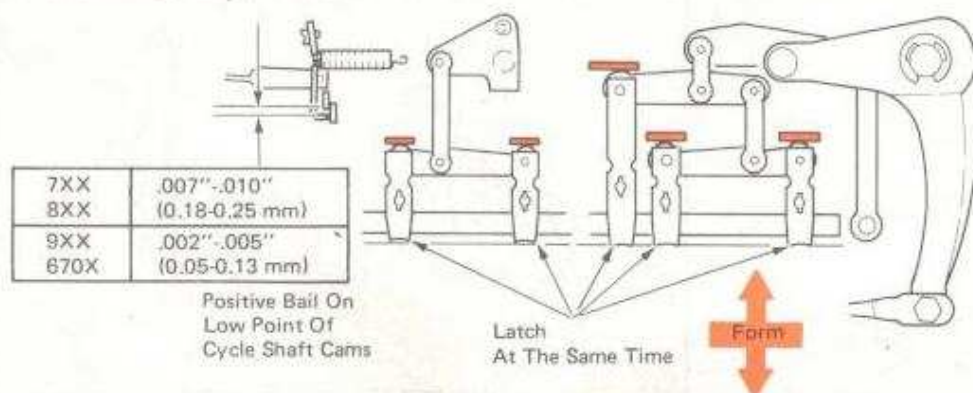
60 Selector Latch Links (21-316)



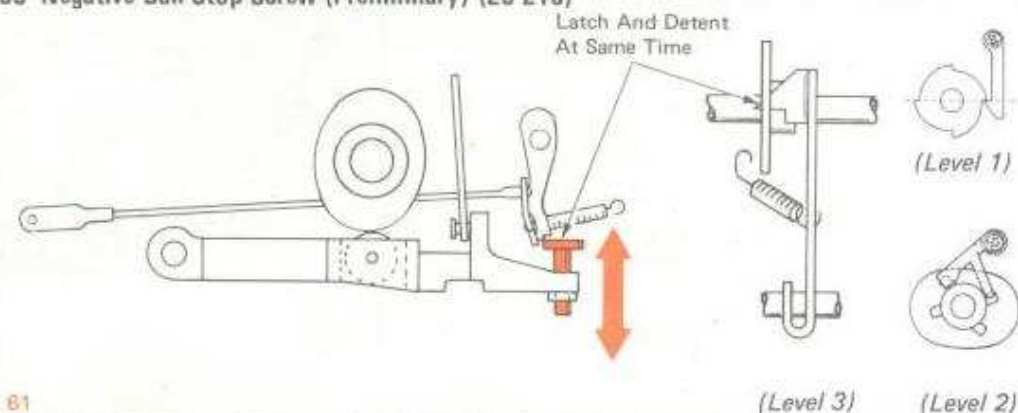
61 Negative 5 Or 6 Latch Link (21-317)



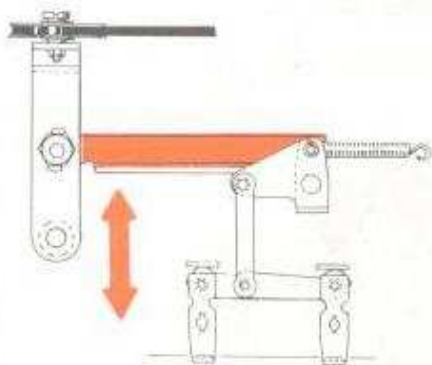
62 (Latch Stop Pads (23-486)



63 Negative Bail Stop Screw (Preliminary) (23-216)



64 Tilt Arm Motion (23-28)



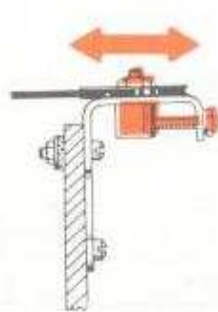
Equal Detenting Check

Tilt Zero = Tilt 3
Rotate zero = Rotate Zero

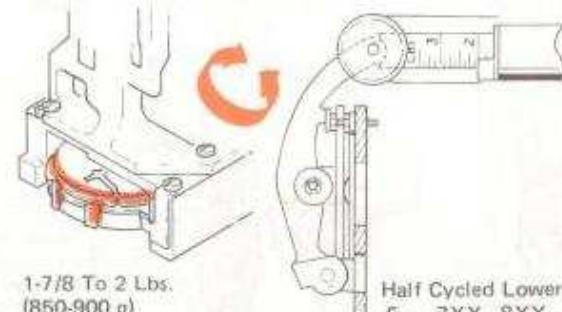
Z = J 7XX - 8XX

J = P 670X

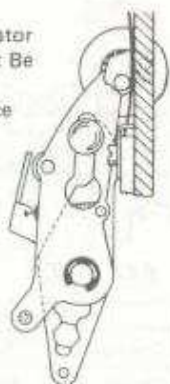
65 Tilt Homing (23-007)

Play
Removed
Negative
Will Raise
Approximately
.010" (0.25 mm)Play
Removed
Positive

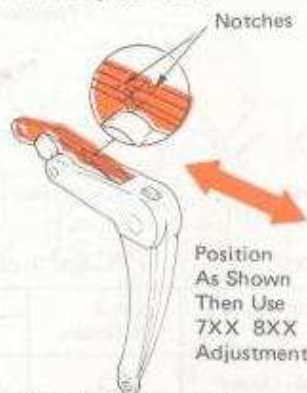
66 Rotate Spring Tension (02-424)

1-7/8 To 2 Lbs.
(850-900 g)
Take Reading Just
Before Arm Contacts
Lower Case StopHalf Cycled Lower Case
-5 7XX 8XX
-6 670X
Typehead Removed

67 Compensator Arm (23-363)

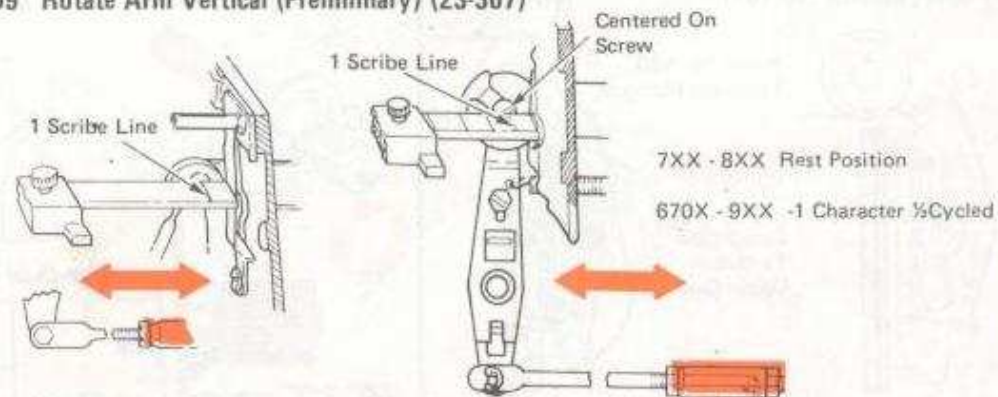
Compensator
Arm Must Be
Disabled.
See Service
Manual

68 Balance Arm Preliminary (23-200)



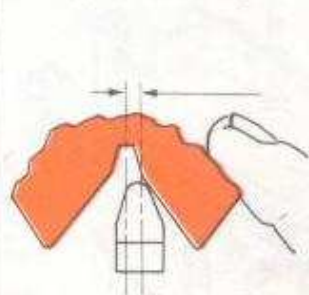
(Adjustable Balance Arm)

69 Rotate Arm Vertical (Preliminary) (23-367)

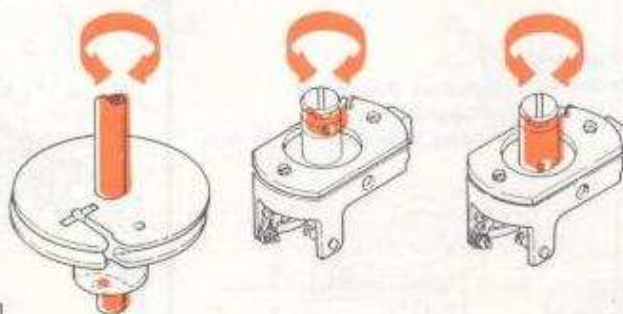


(Compensator Arm) (U.S. Only) (Solid and Two-Piece Arm)

70 Typehead Homing (Preliminary) (02-420)



Upper Case

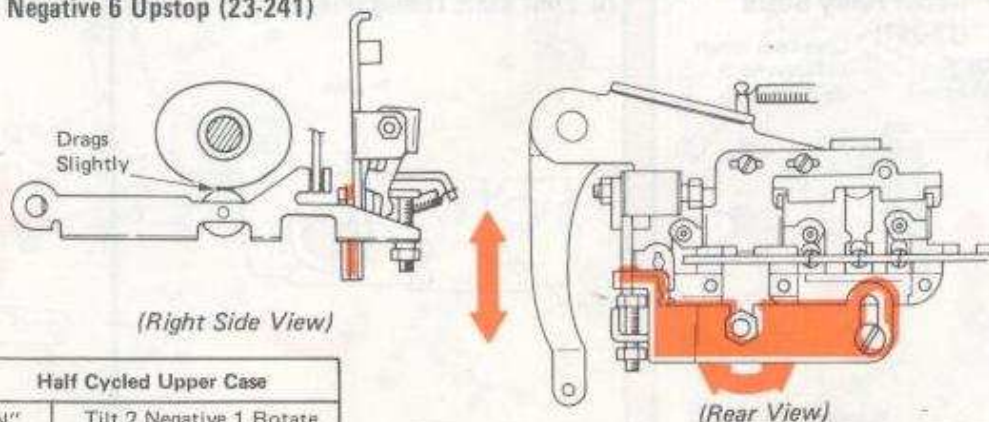
"Degree" - 7XX 8XX
"R" - 670XTilt 2
Rotate Zero

7XX 8XX

670X
9XX W.T.

8XX W.T.

71 Negative 6 Upstop (23-241)



(Right Side View)

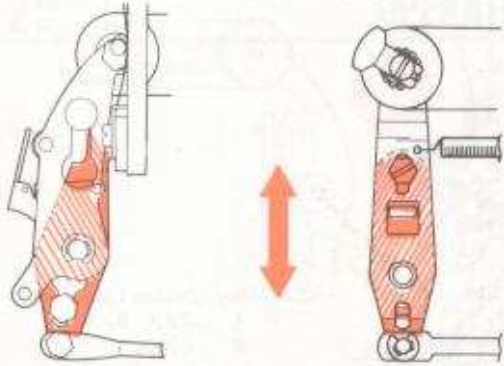
(Rear View)

Half Cycled Upper Case

"N"

Tilt 2 Negative 1 Rotate

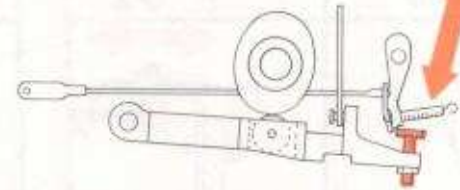
72 Rotate Arm Motion (23-369)



(Compensator Arm) (Solid And Two Piece Arm)

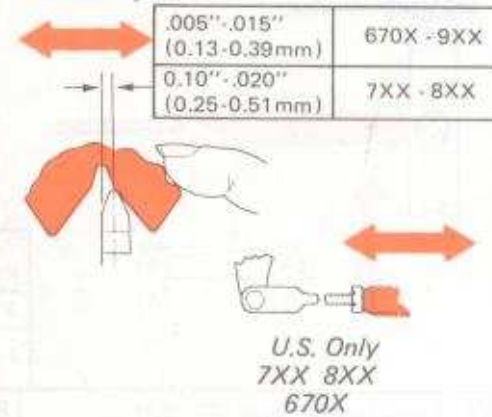
Upper Case		
"Degree" = "W"	7XX 8XX	
"R" = "V"	670X	
Tilt 2 Zero Rotate = +5 Rotate	7XX 8XX 670X 9XX	

73 Balance (Final) (23-216)



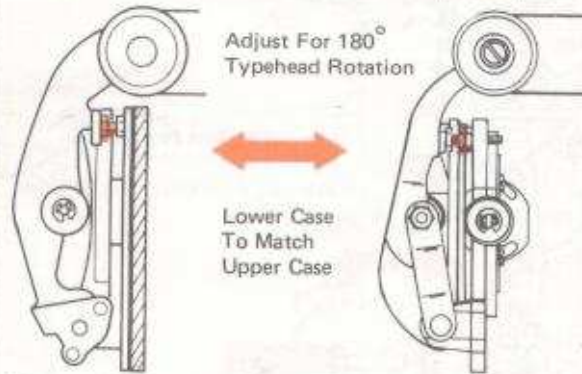
Upper Case			
7XX 8XX	670X 9XX W.T.		
"degree" = "m"	"R" = "degree"		
Tilt 2 Zero Rotate = -5 Rotate	Tilt 2 Zero Rotate = -6 Rotate		

74 Typehead Homing (Final) (02-420) (02-441)



75 Shift Motion (16-101)

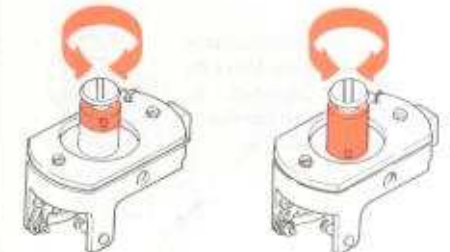
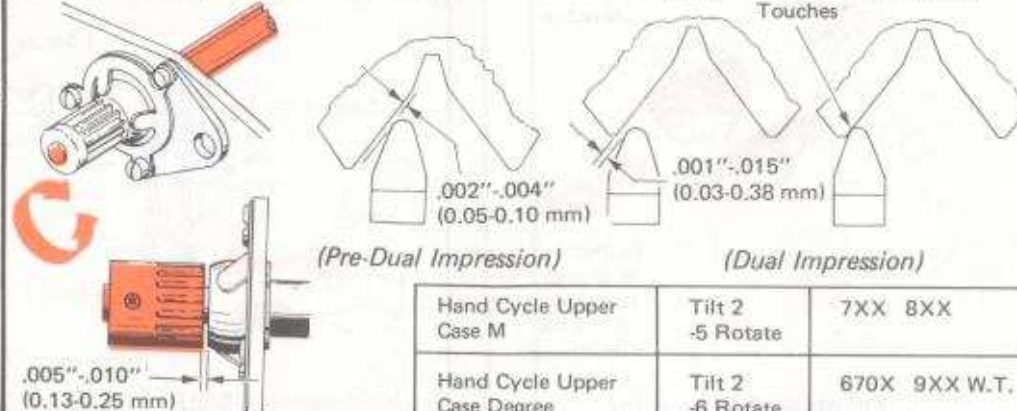
(16-41)



(Stamped Shift Arm)

(Die Cast Shift Arm)

76 Fine Timing (02-30)

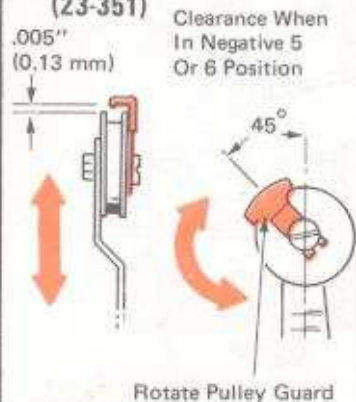


9XX W.T.

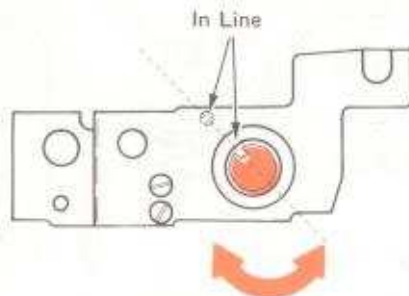
8XX W.T.

Upper Case		
"degree"	7XX 8XX	Tilt 2 Zero Rotate
"R"	670 X	

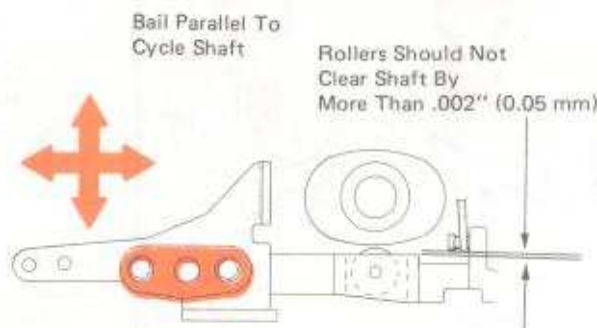
77 Rotate Pulley Guard (23-351)



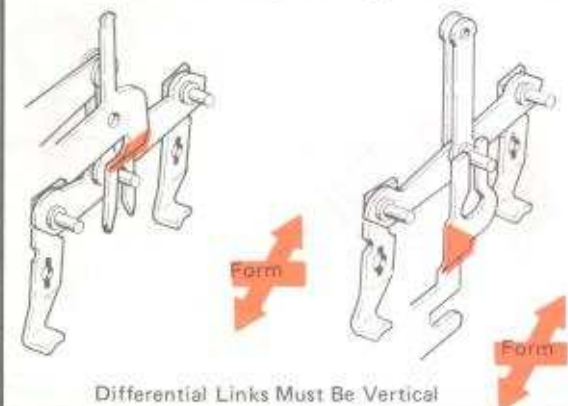
78 Print Shaft Timing (Preliminary) (02-30)



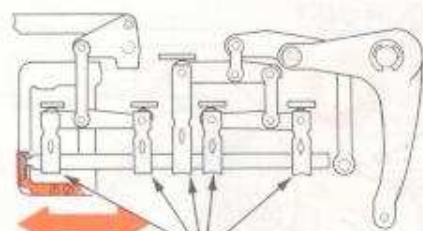
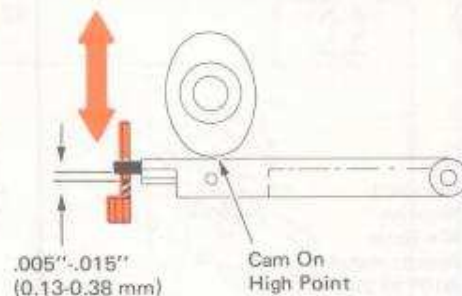
79 Latch Bail Shaft (23-115)



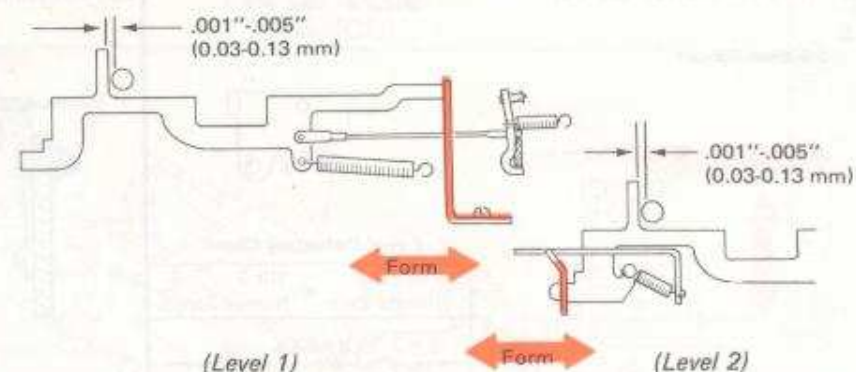
80 Differential Guides (23-207) (23-34)



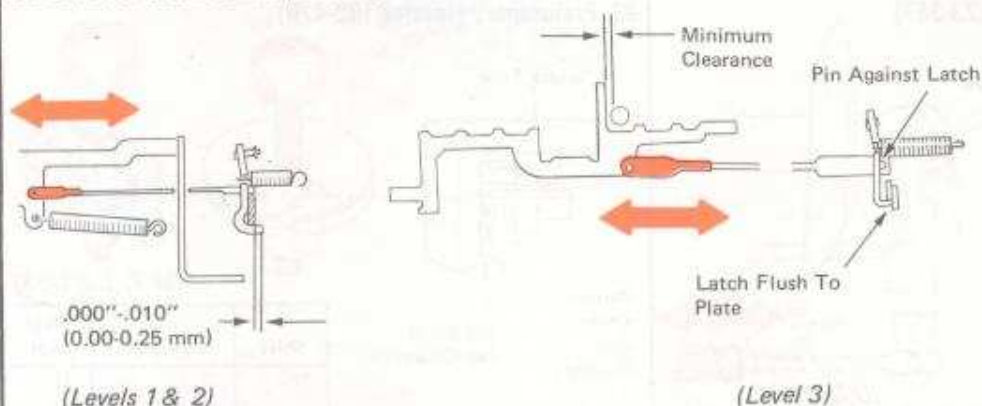
81 Positive Latch Bail Guide (23-107)

All Latches
Hang Vertically

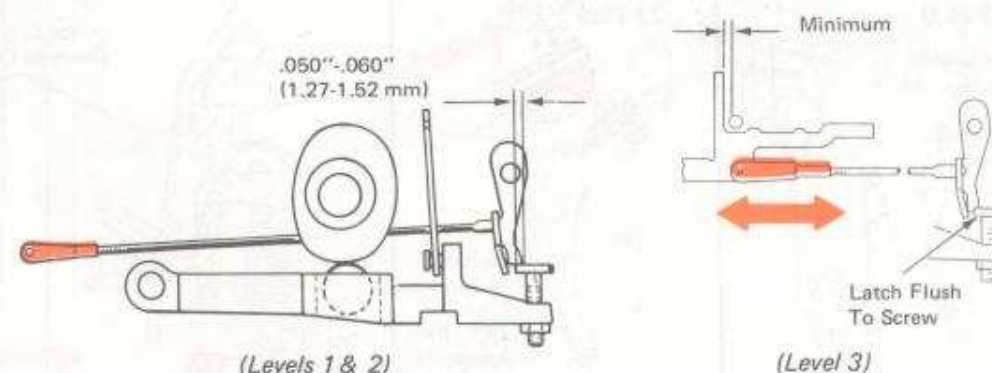
82 Interposer Stop Lugs (21-310) (21-325)



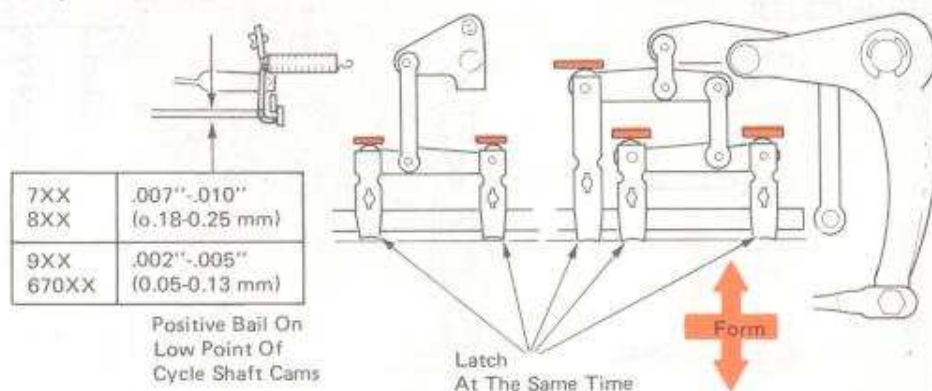
83 Selector Latch Links (21-316)



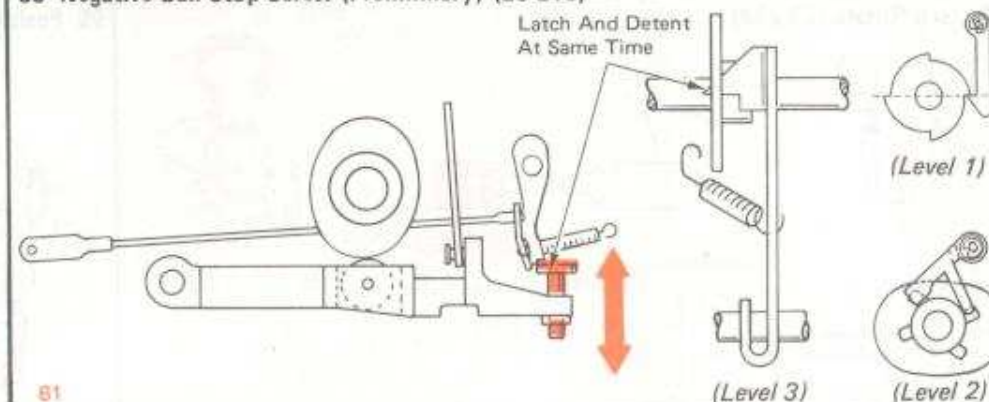
84 Negative 5 Or 6 Latch Link (21-317)



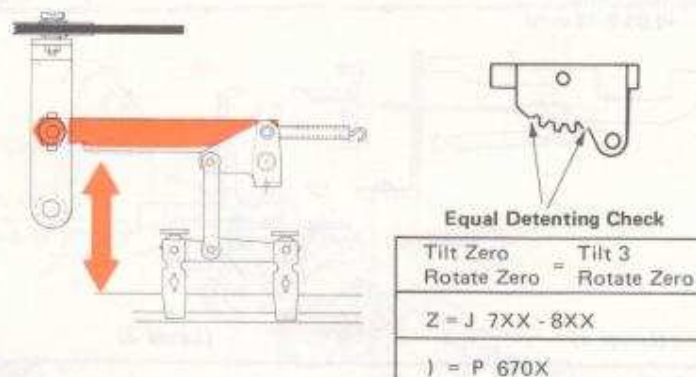
85 Latch Stop Pads (23-486)



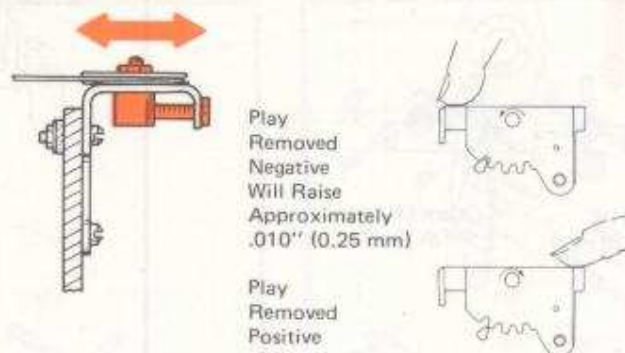
86 Negative Bail Stop Screw (Preliminary) (23-216)



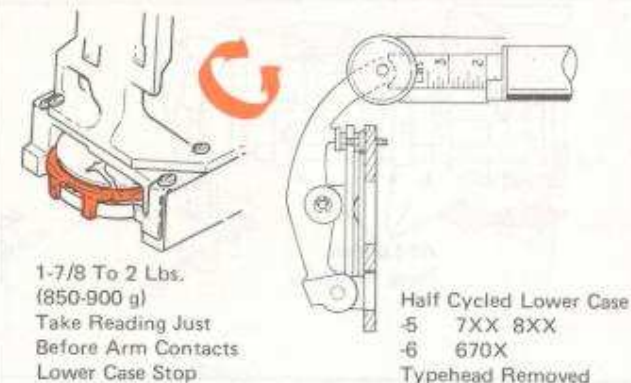
87 Tilt Arm Motion (23-28)



88 Tilt Homing (23-007)

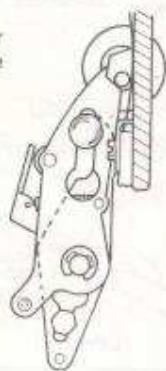


89 Rotate Spring Tension (02-424)



90 Compensator Arm (23-363)

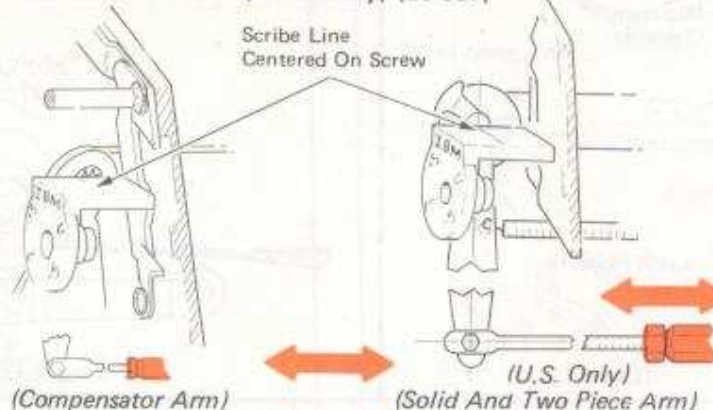
Compensator Arm Must Be Disabled. See Service Manual



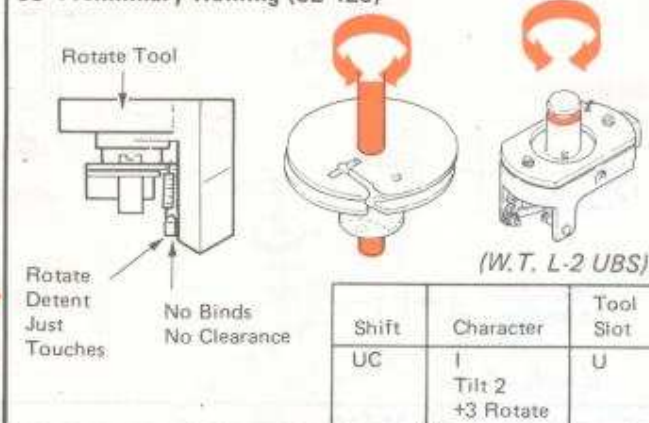
91 Balance Arm Preliminary (23-200)



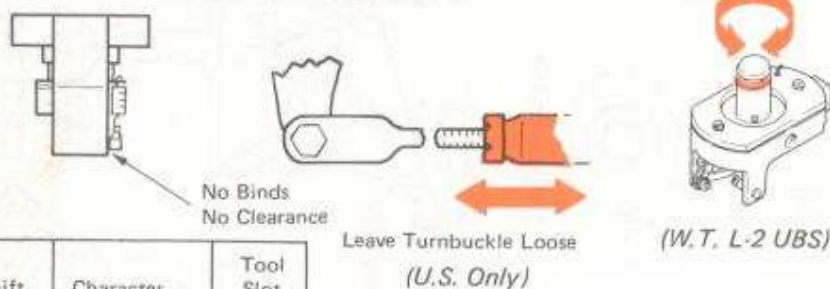
92 Rotate Arm Vertical (Preliminary) (23-367)



93 Preliminary Homing (02-420)

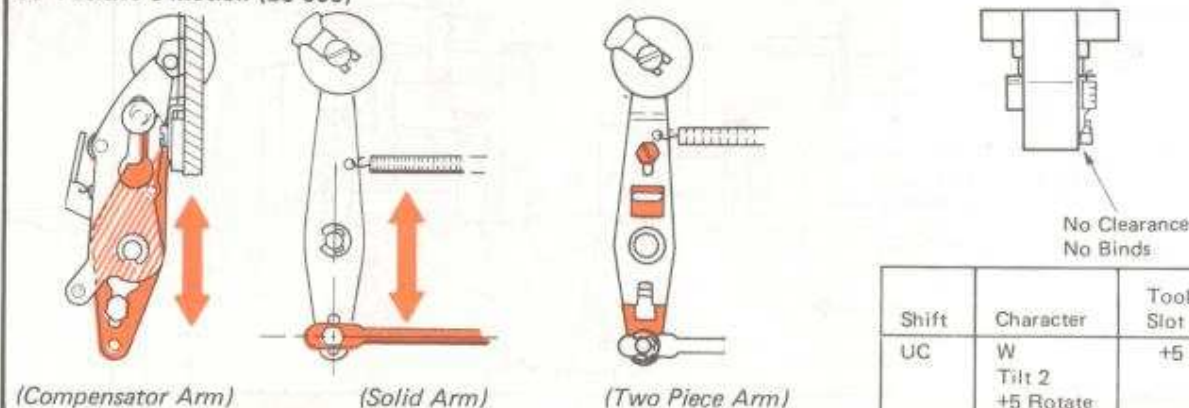


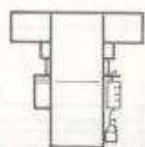
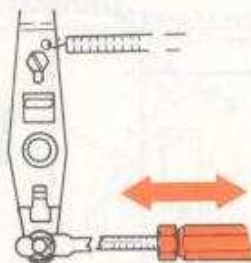
94 Zero Rotate (23-228)



Shift	Character	Tool Slot
UC	1/4 Tilt 2 Zero Rotate	U

95 Positive 5 Motion (23-369)



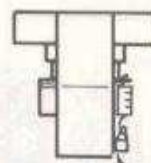
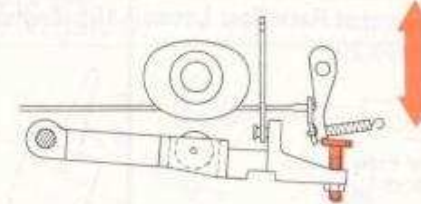
96 Negative 5 Motion (23-369)No Clearance
No Binds

(U.S. Only)

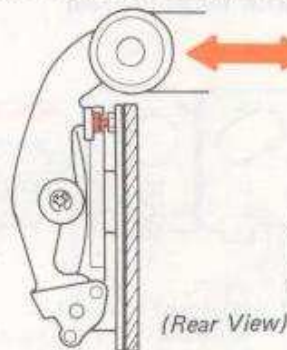


(W.T. L-2 UBS)

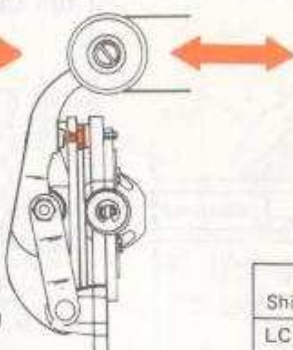
Shift	Character	Tool Slot
UC	M Tilt 2 -5 Rotate	-5

97 Balance (Final) (23-216)No Clearance
No BindsAdjustable Balance Arm
Check Frame 91 First

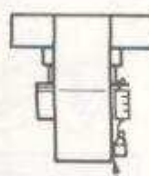
Shift	Character	Tool Slot
UC	1/4 Tilt 2 Zero Rotate	U

98 Shift Motion (16-101) (16-41)

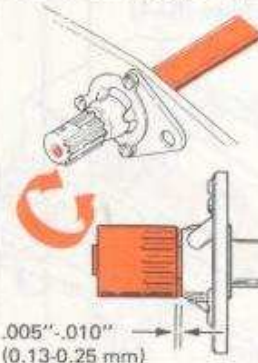
(Stamped Arm)



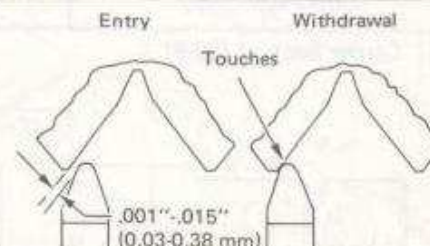
(Die Cast Arm)

No Clearance
No Binds

Shift	Character	Tool Slot
LC	1/2 Tilt 2 Zero Rotate	L

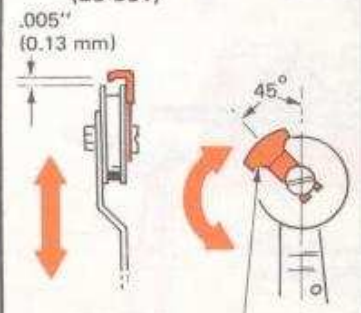
99 Fine Timing (02-30).005"-.010"
(0.13-0.25 mm)

(Pre-Dual Impression)



(Dual Impression)

Entry	Entry	Withdrawal
	Touches	
	.002"-.004" (0.05-0.10 mm)	.001"-.015" (0.03-0.38 mm)
Hand Cycle Upper Case M	Tilt 2 -5 Rotate	7XX 8XX
Hand Cycle Upper Case Degree	Tilt 2 -6 Rotate	670X 9XX W.T.

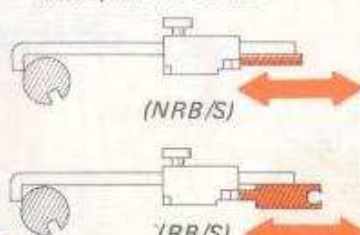
100 Rotate Pulley Guard (23-351)

Rotate Pulley Guard

101 Escapement Rack Or Rail (07-11)

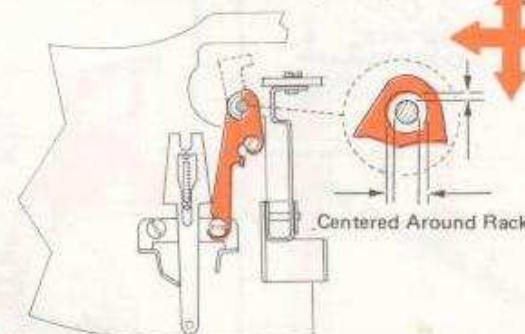
Hooverometer On Number One Scribe Line

Just Spans The Distance



(NRB/S)

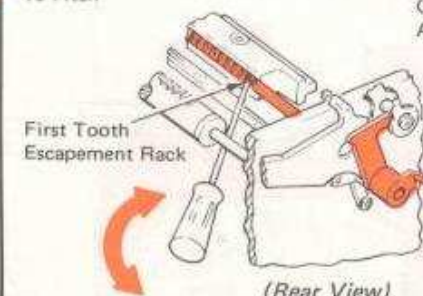
(RB/S)

181
Check At Left, Center, And Right**102 Escapement Rack Guide (07-20)**

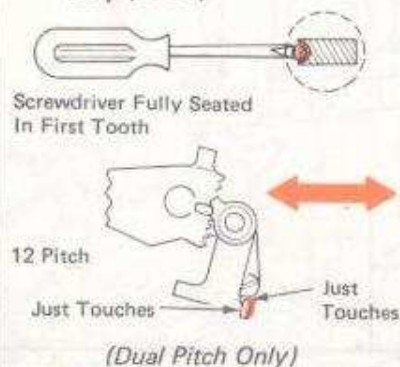
(Left Side View)

105
(Dual Pitch Only)**103 Escapement Rack Teeth Vertical (07-23)**

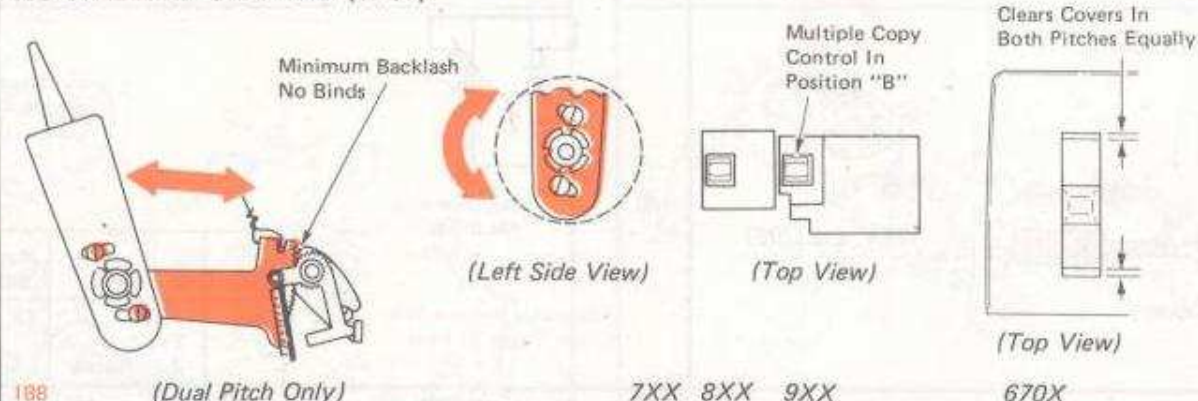
10 Pitch

Levels 2 & 3
Gear Flush
Against 1/2 B/S CamLevel 1
.005"-.010"
(0.13-0.25 mm)
End Play
Of Switch
Pitch Gear(Rear View)
(Dual Pitch Only)

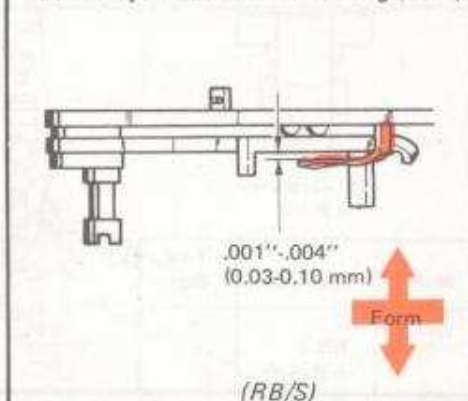
104 Escapement Rack Gear Lower Stop (07-20)



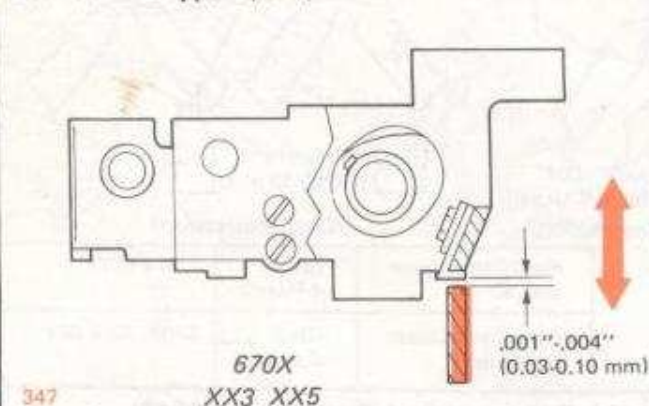
105 Switch Pitch Sector Gear (07-31)



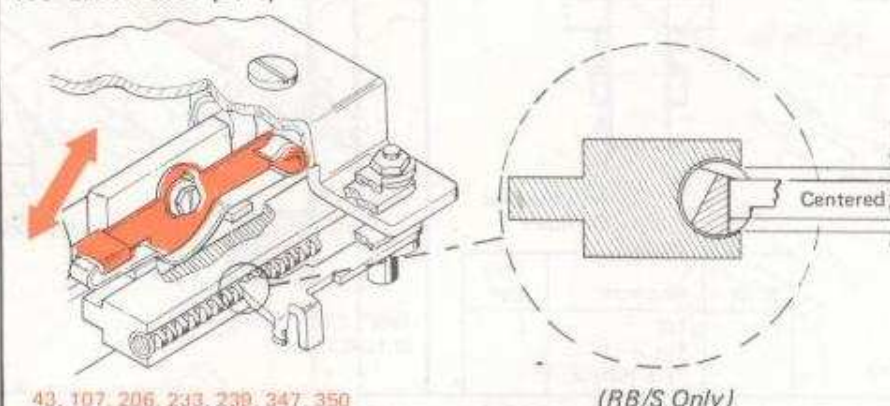
106 Escapement Pawl Guide Lug (07-4)



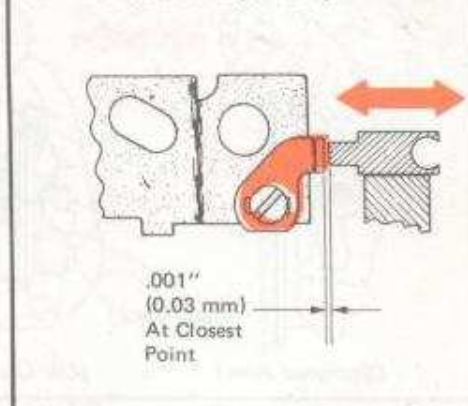
107 Carrier Support (02-8)



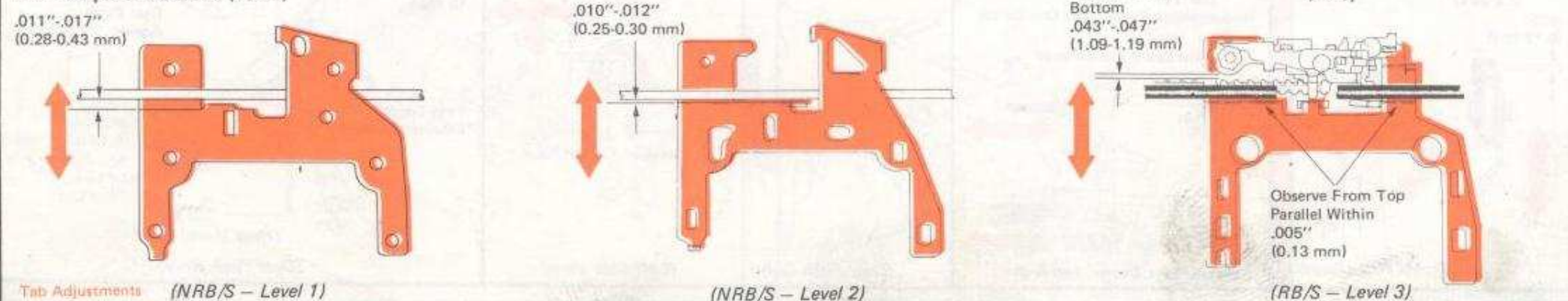
108 Carrier Shoe (07-4)

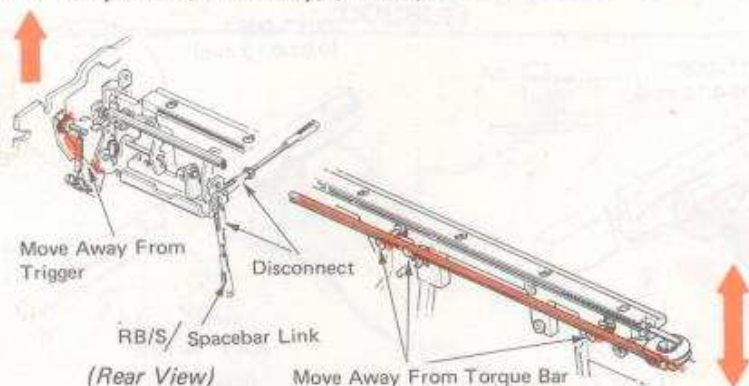
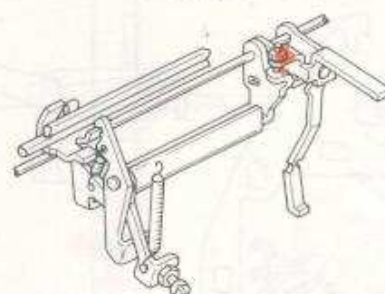
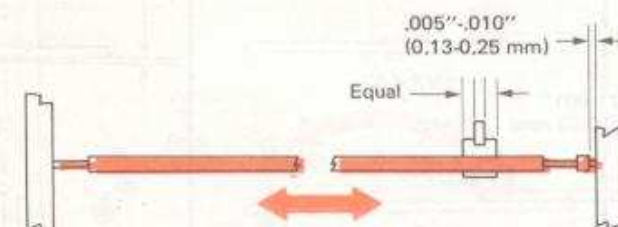
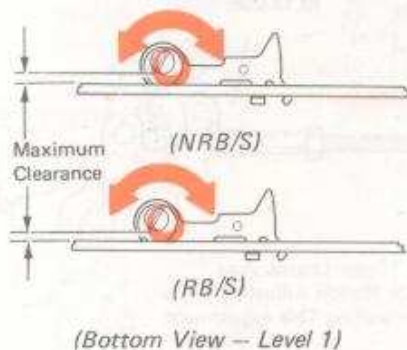
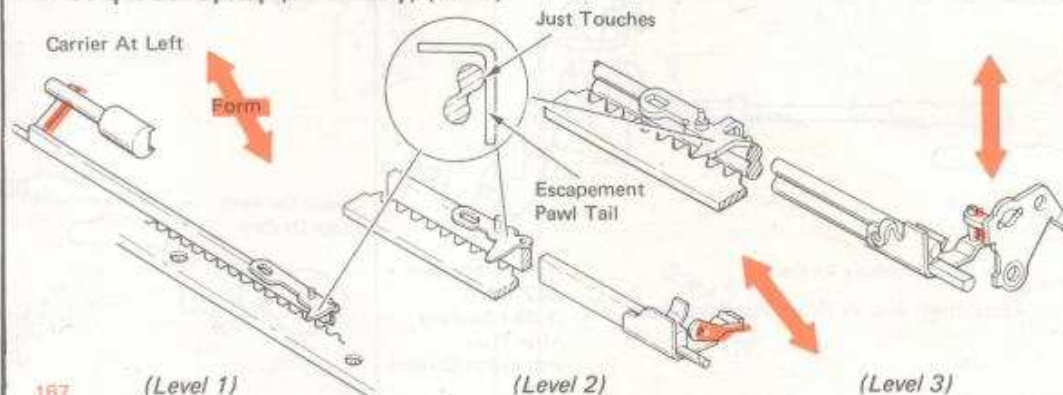
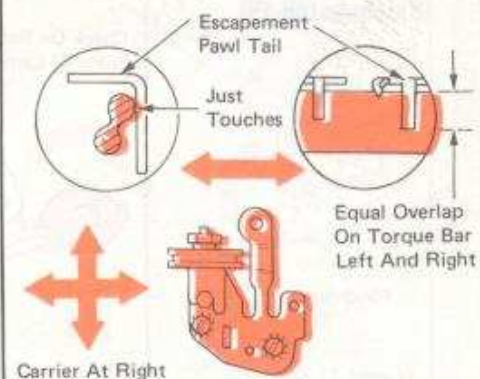
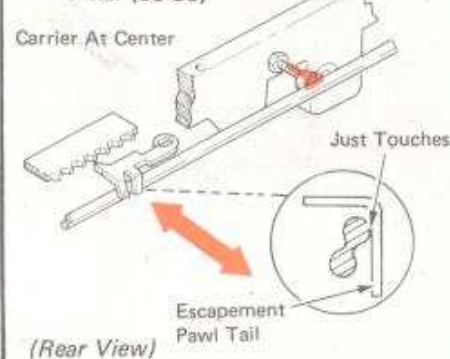
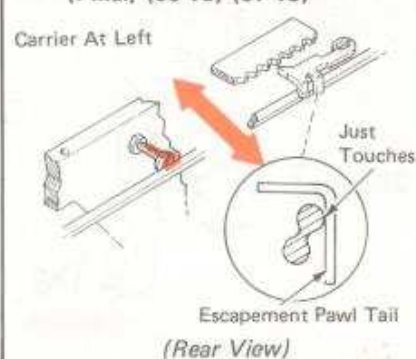
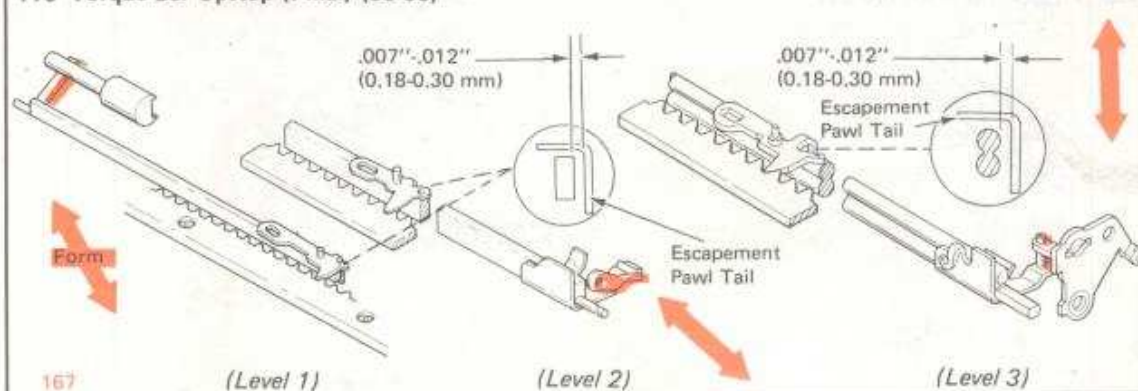


109 Carrier Buffer (02-130)

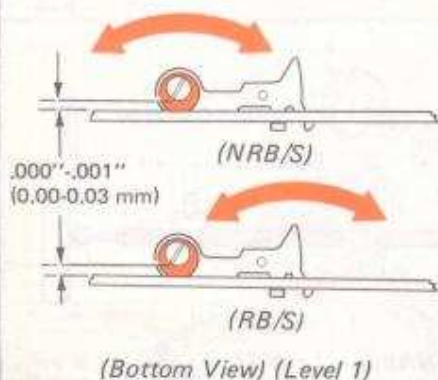


110 Escapement Bracket (06-23)



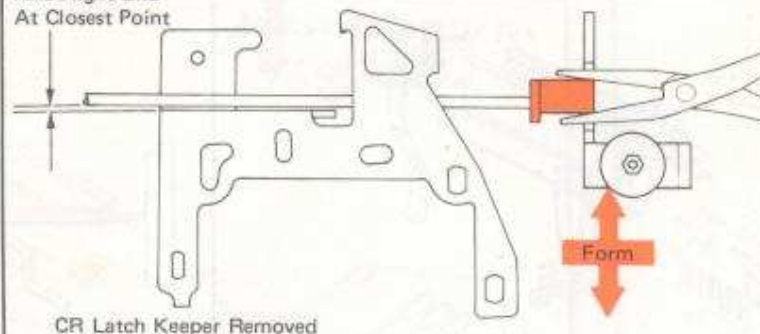
111 Torque Bar (Preliminary) (06-029)Move Away From
Trigger Bracket**112 Escapement Torque Bar (06-33)****113 Pawl Mounting Stud (Preliminary) (06-26)****114 Torque Bar Upstop (Preliminary) (06-55)****115 Escapement Pawl Tail Clearance (23-50)****116 Center Torque Bar Backup Screw Final (06-59)****117 Left Torque Bar Backup Screw (Final) (06-13) (07-13)****118 Torque Bar Upstop (Final) (06-55)**

119 Pawl Mounting Stud (Final) (06-26)

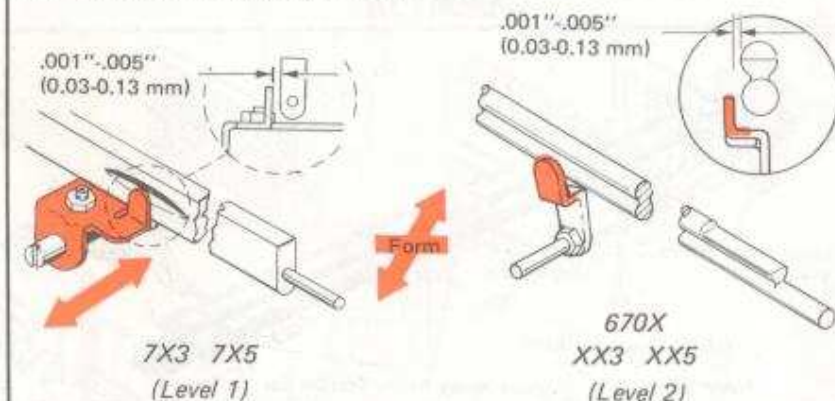


120 Tab Torque Bar Parallel (23-50)

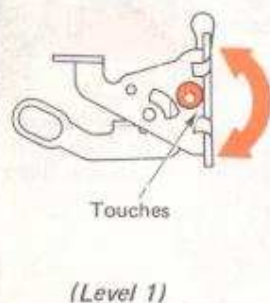
Equal On Left
And Right End
At Closest Point



121 Torque Bar Backstop (06-39)

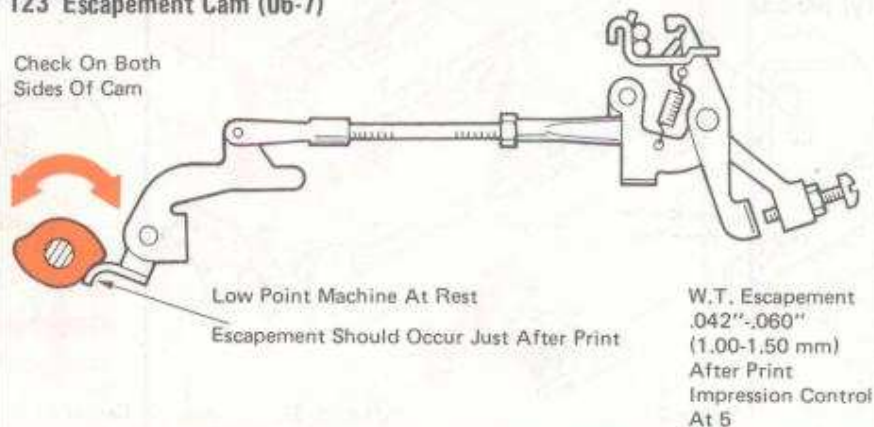


122 Knock-Off Pivot Pin
Eccentric (06-19)



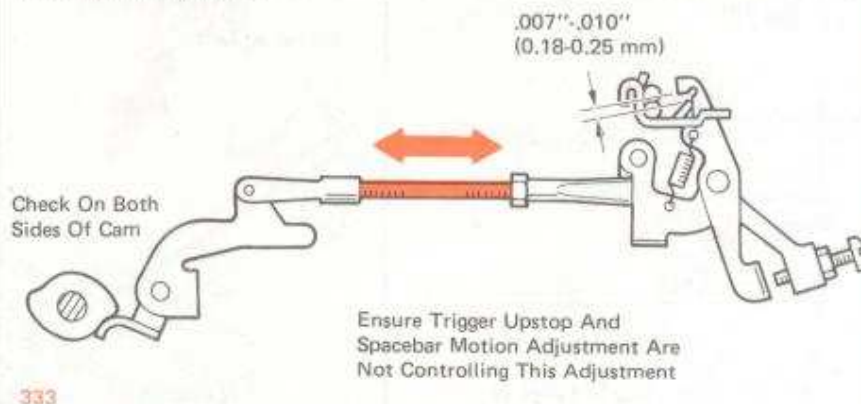
123 Escapement Cam (06-7)

Check On Both
Sides Of Cam



124 Trip Link (06-10)

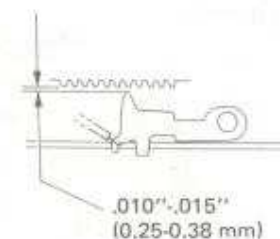
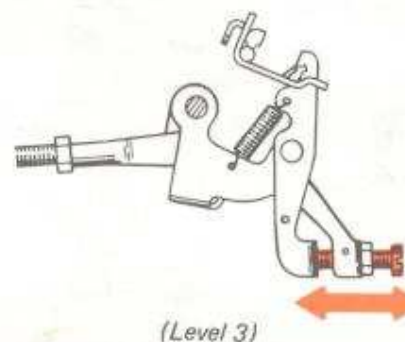
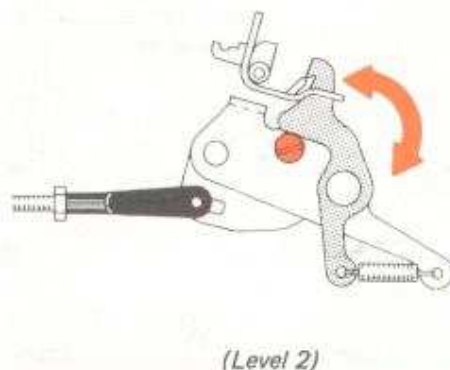
Check On Both
Sides Of Cam



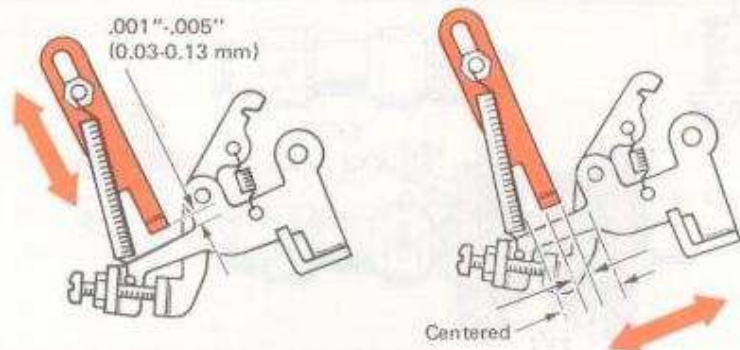
125 Trigger Knockoff (06-51)

(06-19)

(06-14)

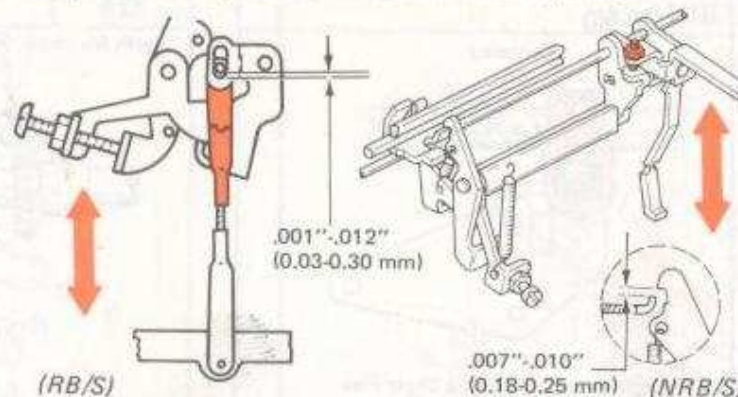


126 Trigger Upstop (Final) (06-36)

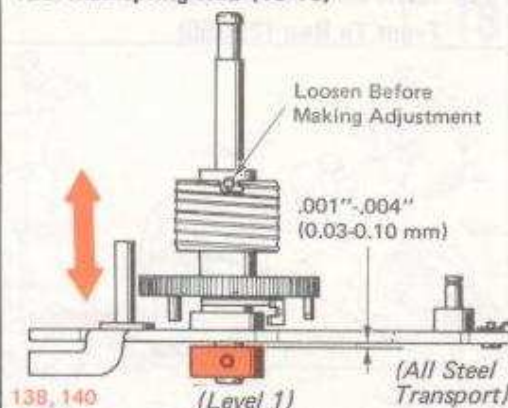


127 Spacebar Link (17-306)

(07-40)

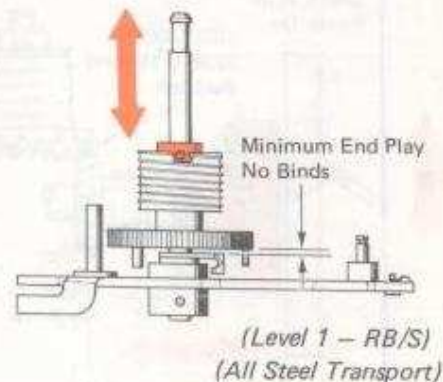
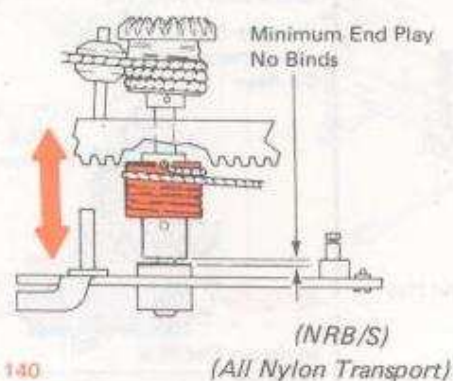


128 Mainspring Hub (19-13)

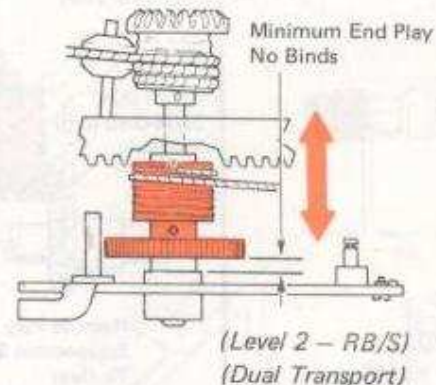


129 Escapement Shaft Collar (03-363)

(24-8)



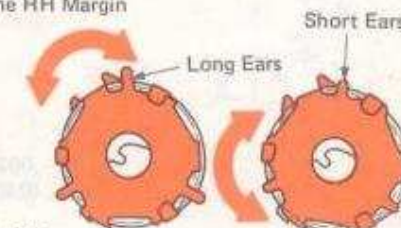
(24-6)



130 Mainspring (18-95)

(19-12)

This Spring
Requires 5 Turns
At The RH Margin



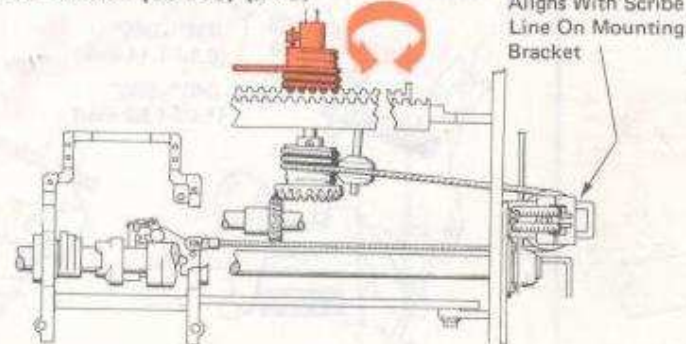
1/2-3/4 Lbs.
(226.8-340.2 g)
Tension As Carrier
Escapes Through
Extreme RH Margin

This Spring
Requires 7 Turns
At The RH Margin

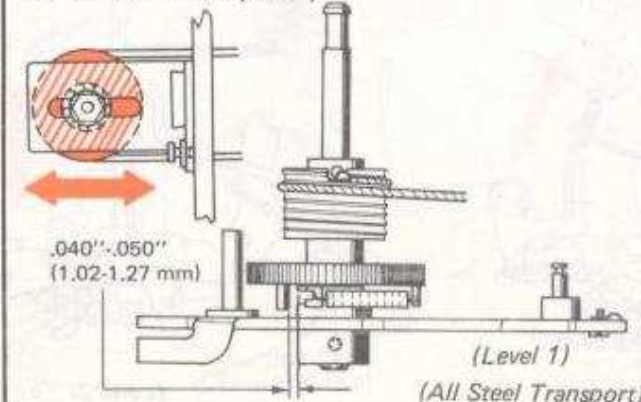
131 Idler Pulley Eccentric (18-124) (19-16)



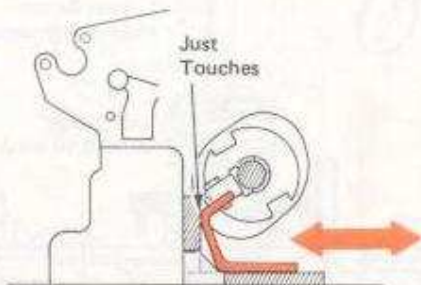
132 Cord Tension (03-363) (24-6)



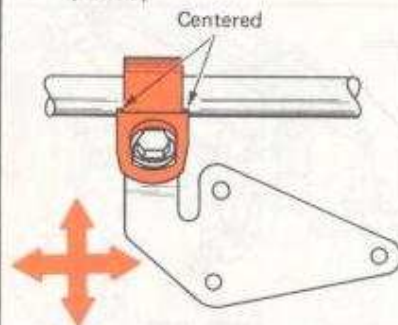
133 Cable Tension (19-23)



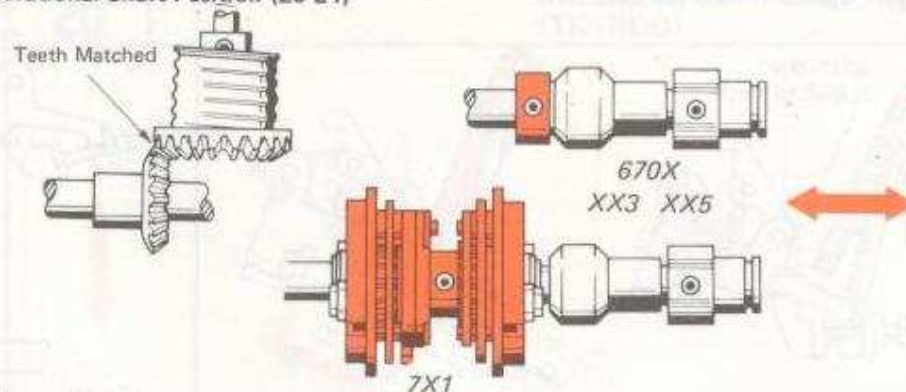
134 Operational Shaft Support Bracket, Front To Rear (25-350)



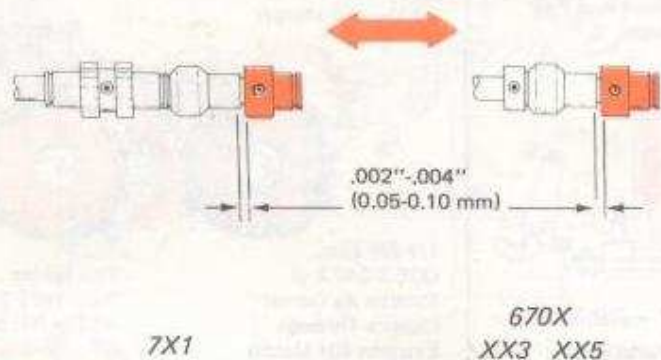
135 Operational Shaft Support (25-56)



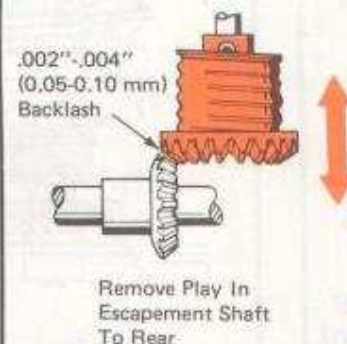
136 Operational Shaft Position (25-24)



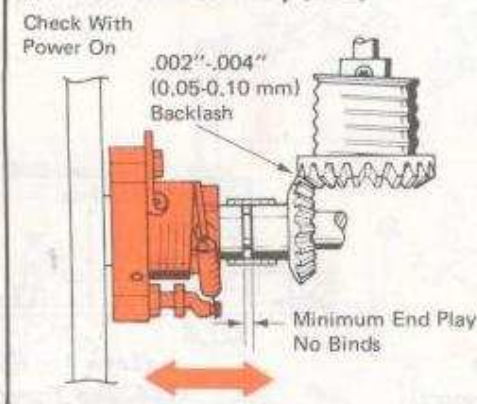
137 Operational Shaft End Play (25-23)



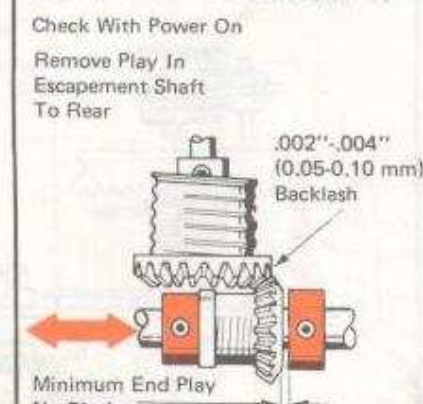
138 CR Pinion Backlash (18-103)



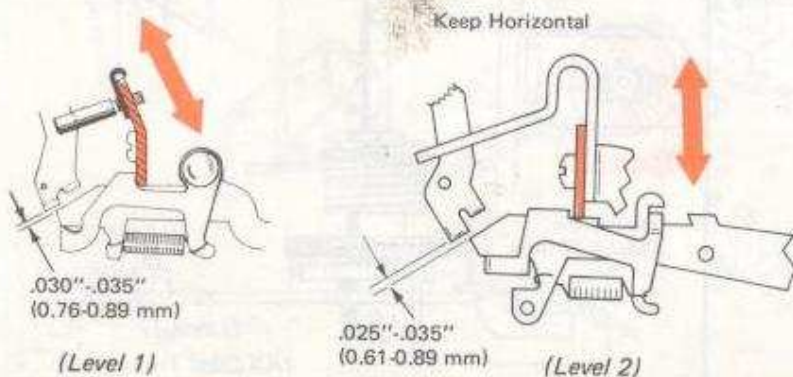
139 CR Pinion End Play (25-3)



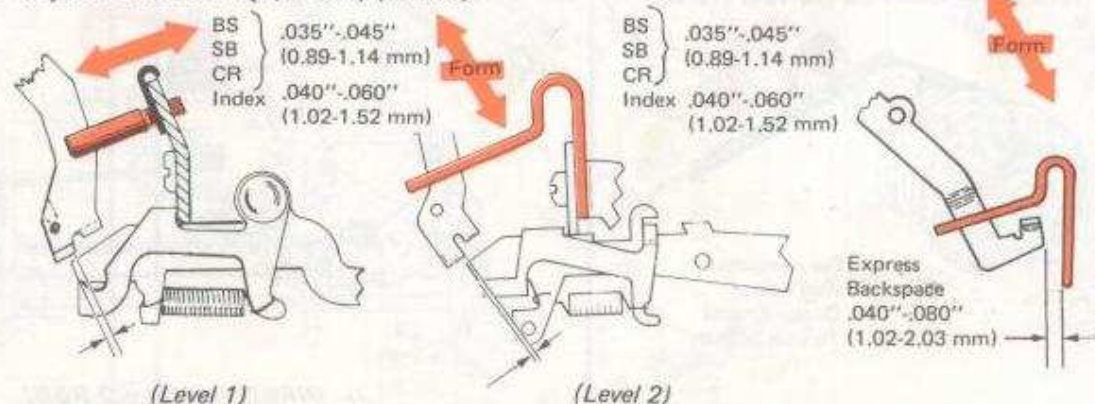
140 Tab Pinion Backlash (25-20)

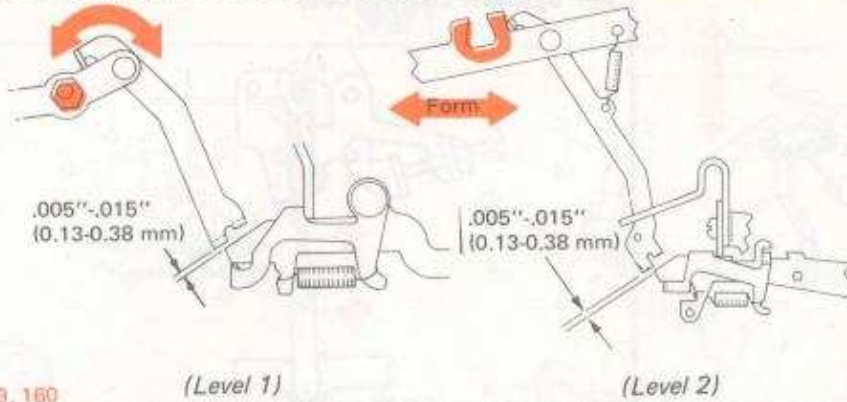
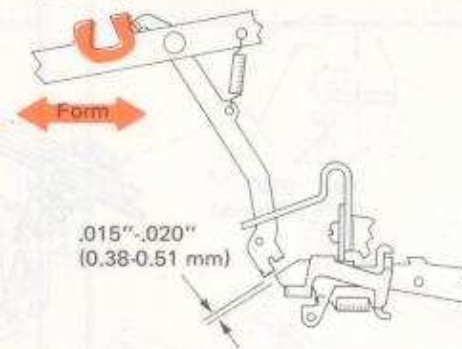
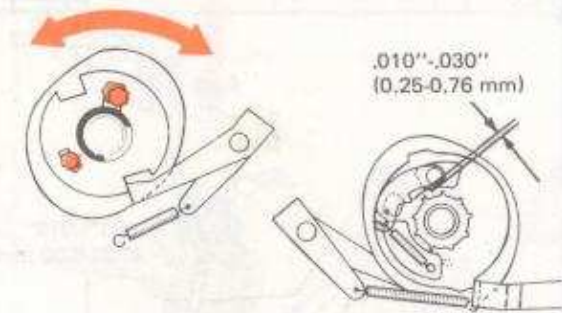
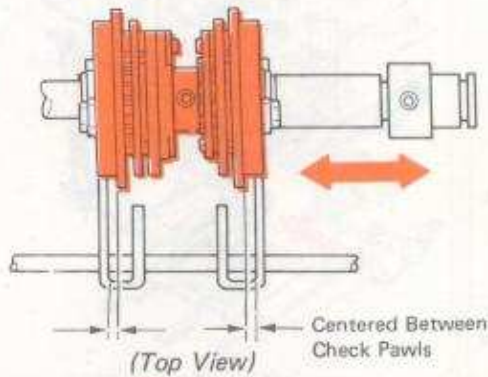


141 Index Keylever Pawl Clearance (25-224)

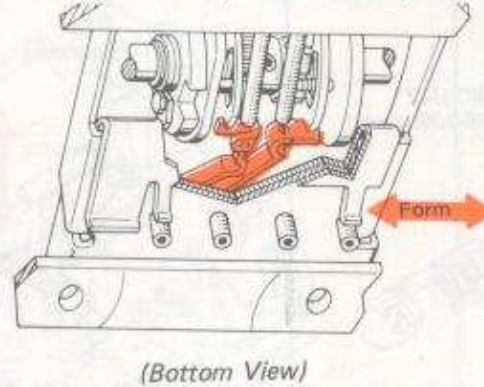
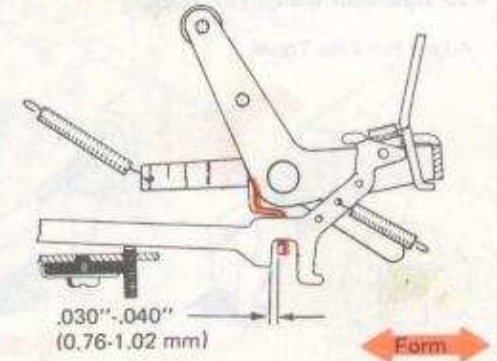


142 Keylever Pawl Overlap (25-302) (25-238)

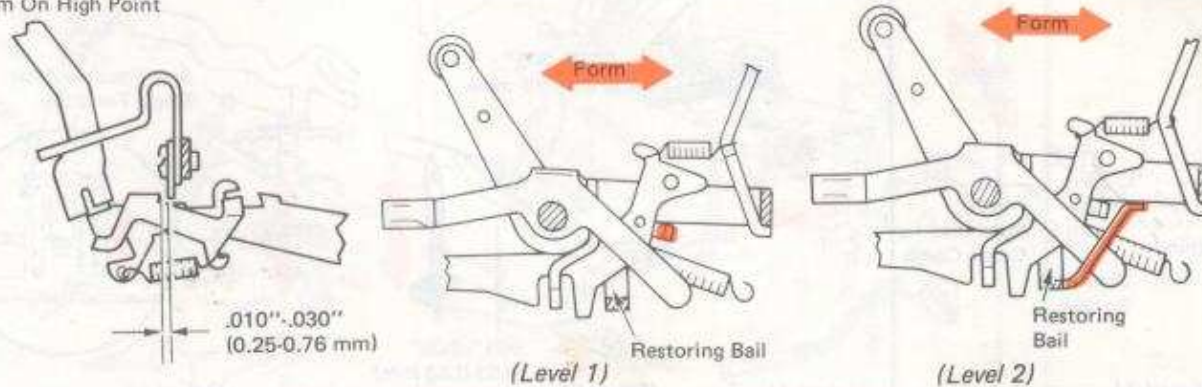
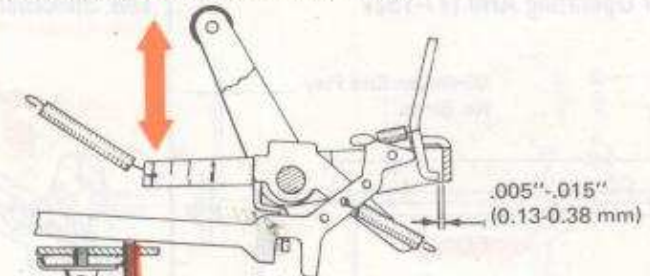


143 Spacebar Keylever Pawl Clearance (17-110) (17-150)**144 CR And BS Keylever Pawl Clearance (03-101)****145 Check Ring (25-29)****146 Operational Cam Position (25-101)****147 Release Arm Overlap (25-205)**

Maximum Overlap Without Touching Cam

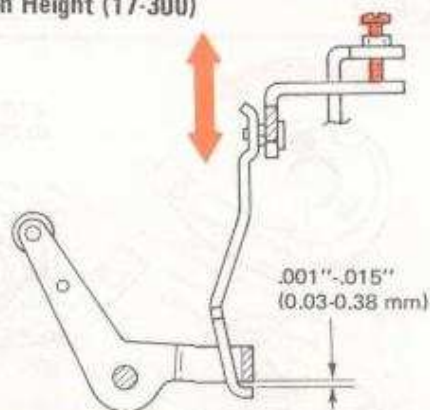
**148 Clutch Release Arm Overlap (25-205)**NOTE: Interposer Latched
Operational Cam Released Manually**149 Clutch Release Arm (25-205)****150 Interposer Restoring Bail (25-216)**

Cam On High Point

**151 Interposer Adjusting Screw (25-222)**

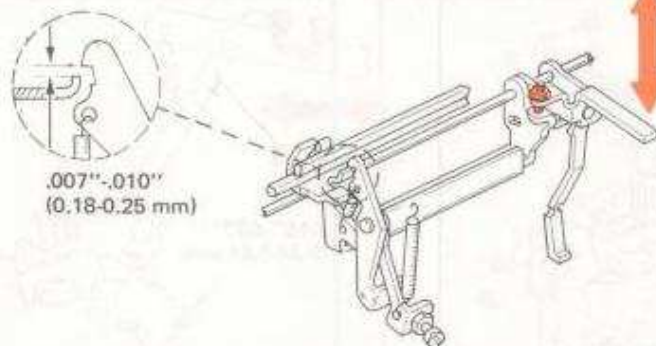
Adjust	Adjustment
1. B/S And CR	.005\"-.015\" (0.13-0.38 mm)
2. SB (RB/S Machines)	To Match B/S And CR
3. Index	To Match All Others

152 Latch Height (17-300)



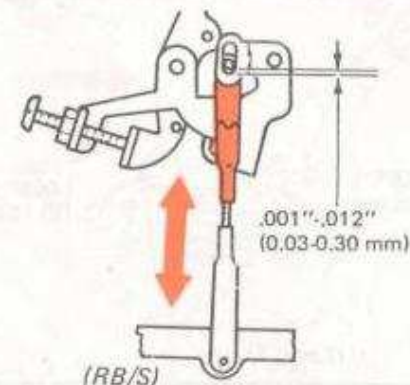
151

153 Latch Lever Screw (07-40)



124

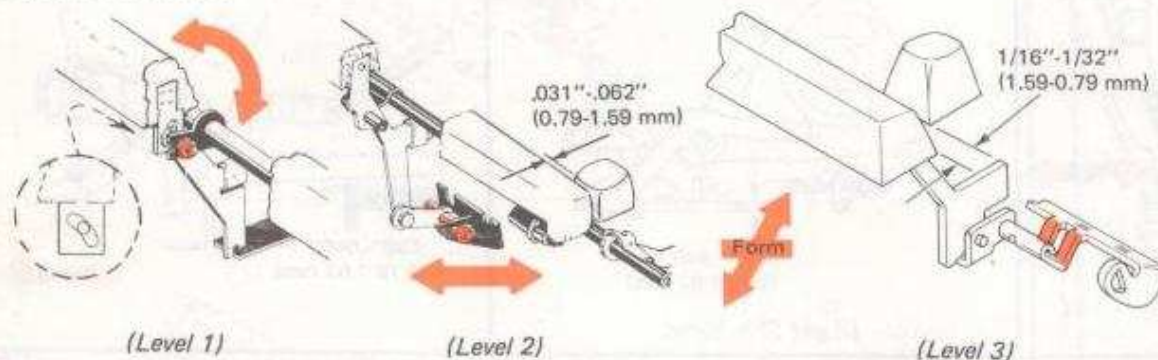
154 Spacebar Link (17-306)



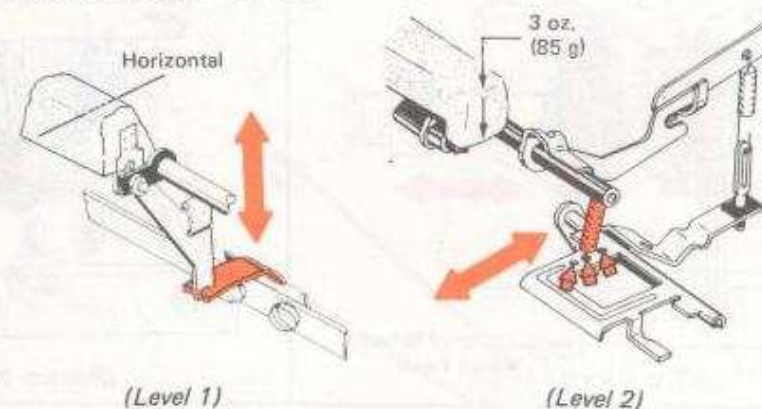
124

155 Spacebar Guide (17-129)

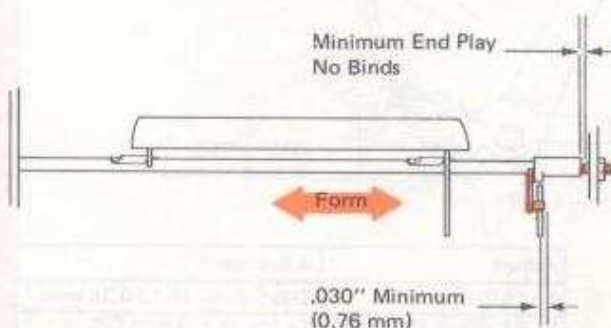
Adjust For Free Travel



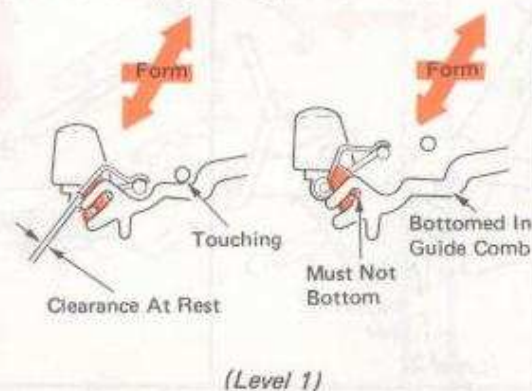
156 Spacebar Return (17-124) (17-146)



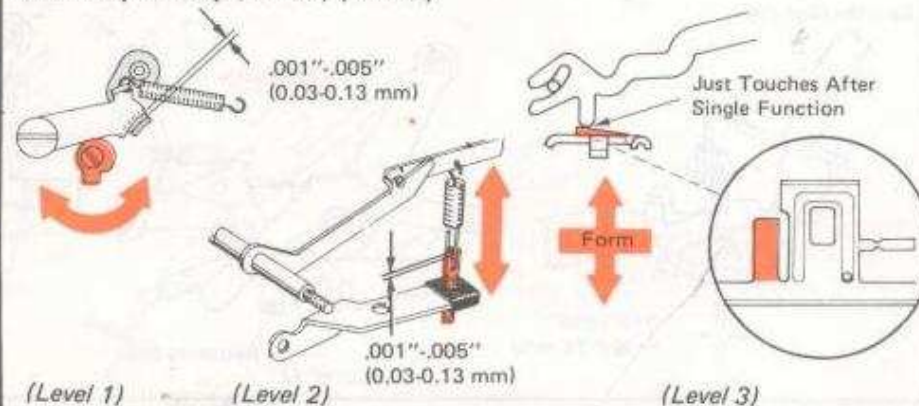
157 Spacebar Operating Arm (17-152)



158 Spacebar Operating Cam (17-132)

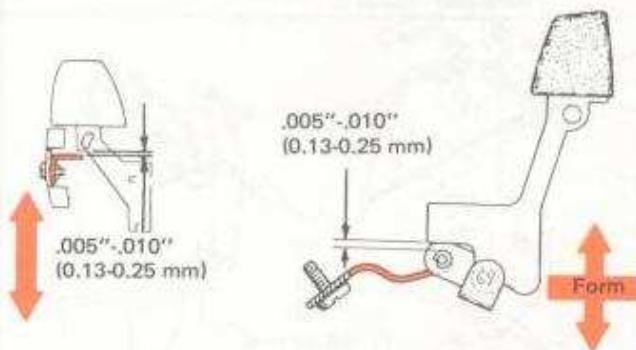


159 Repeat Stop (17-106) (17-148)

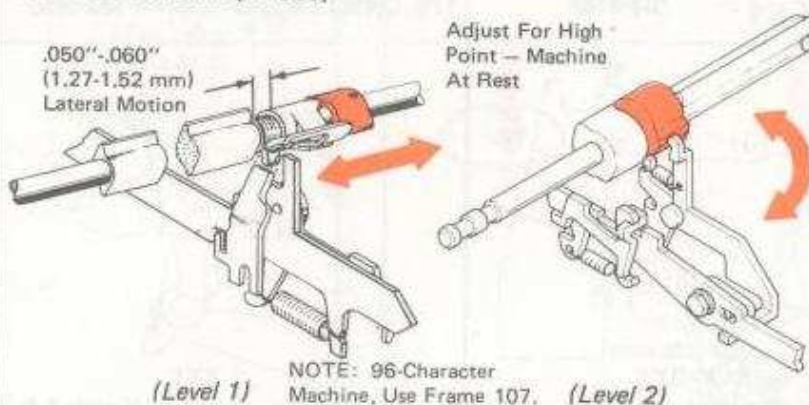


160 Spacebar Final Stop (17-119)

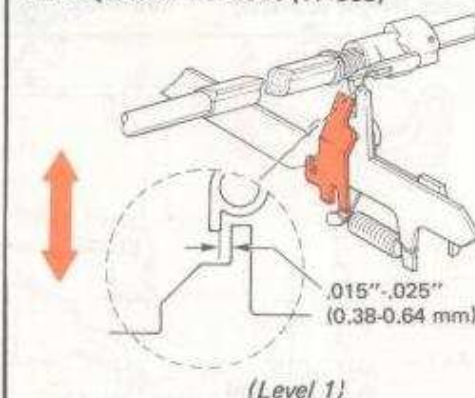
(21-143)



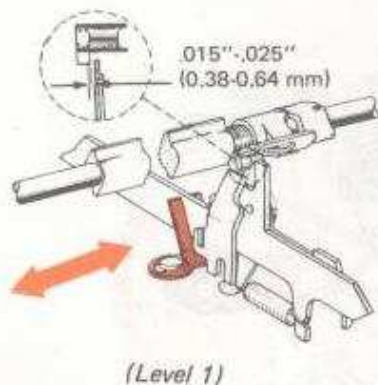
161 Interlock Cam (17-353)



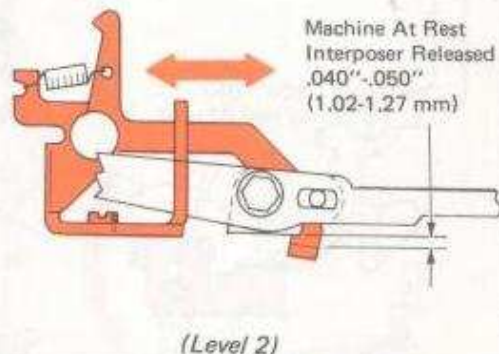
162 Spacebar Lockout (17-353)



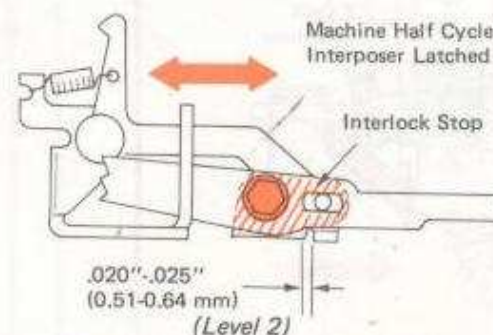
163 Interposer Guide (25-238)



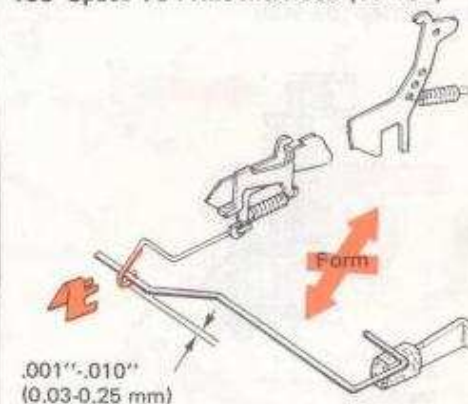
164 Spacebar Interlock Bracket (25-226)



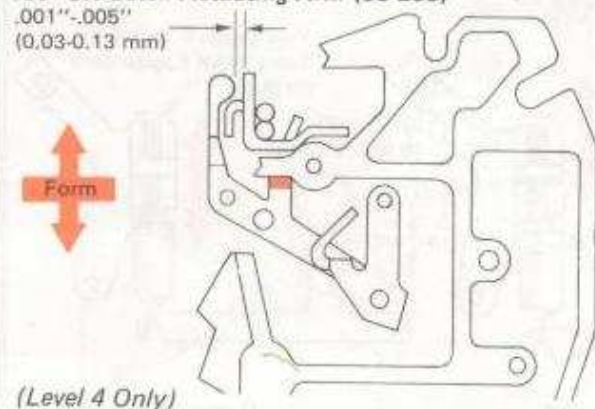
165 Interlock Stop (25-232)



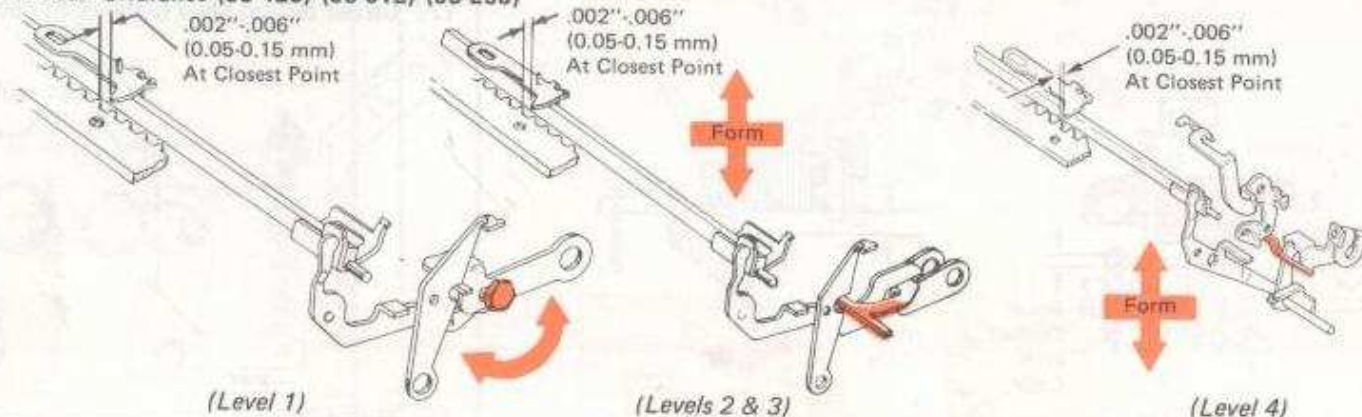
166 Space-To-Print Interlock (17-404)

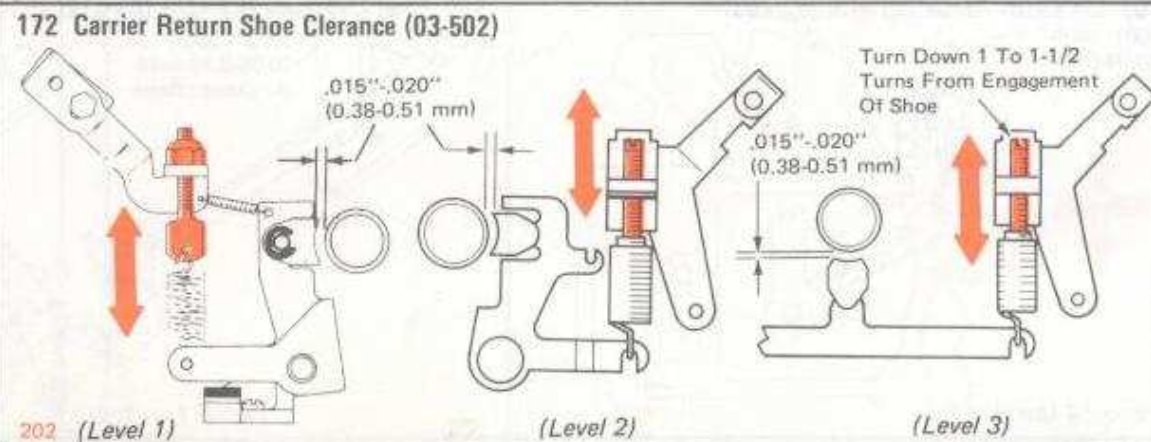
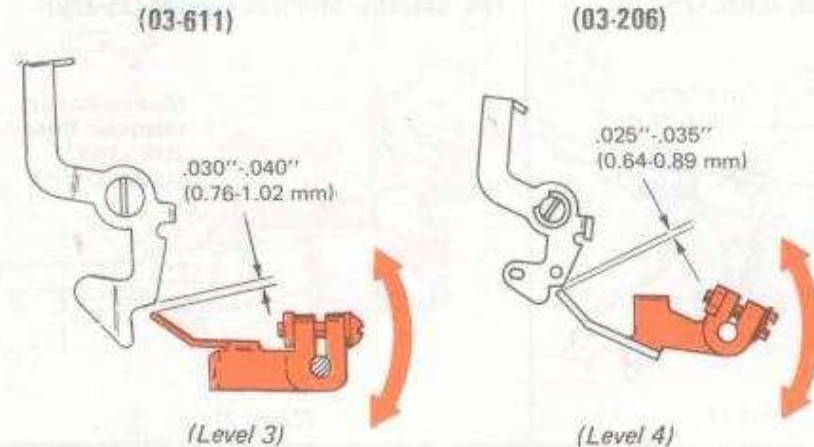
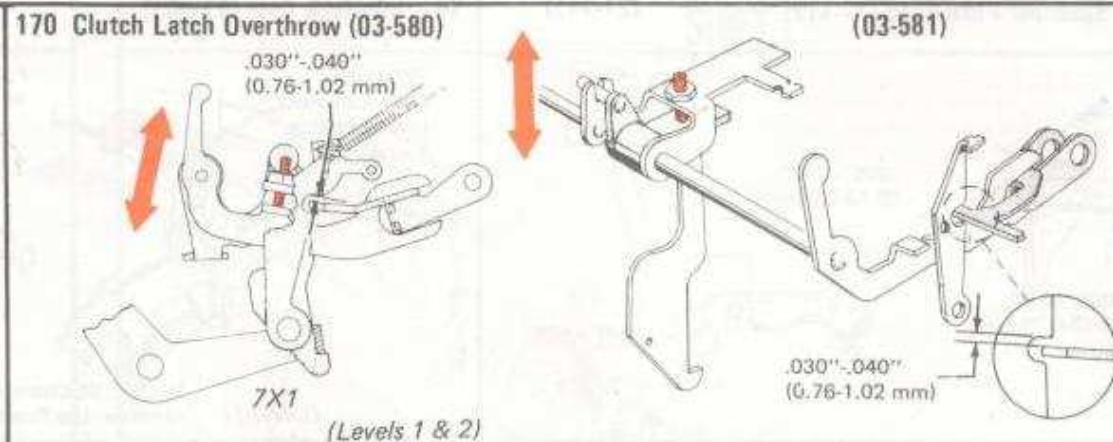
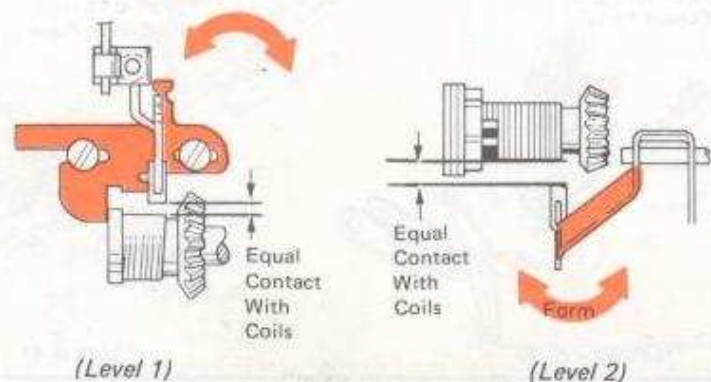
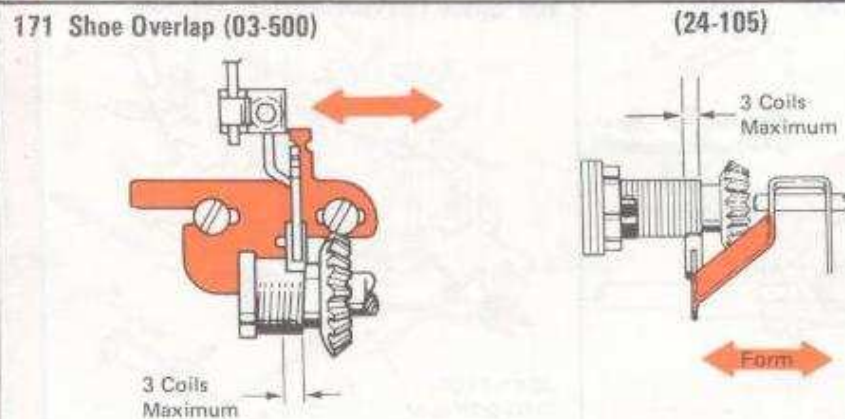
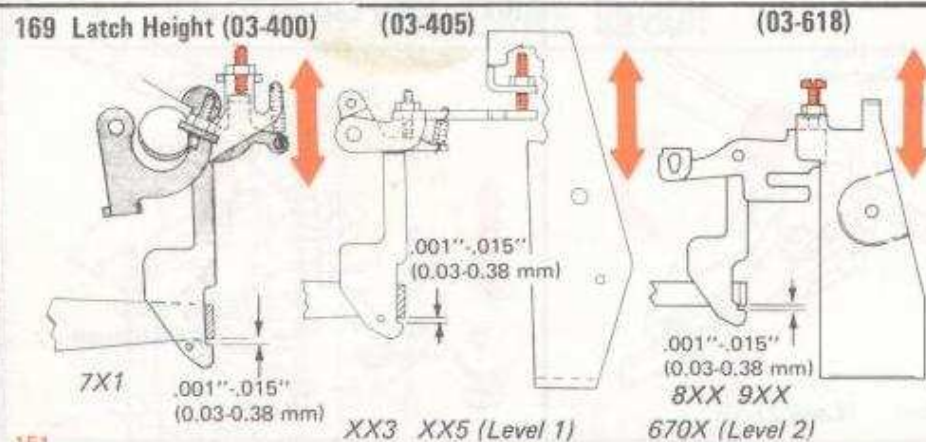


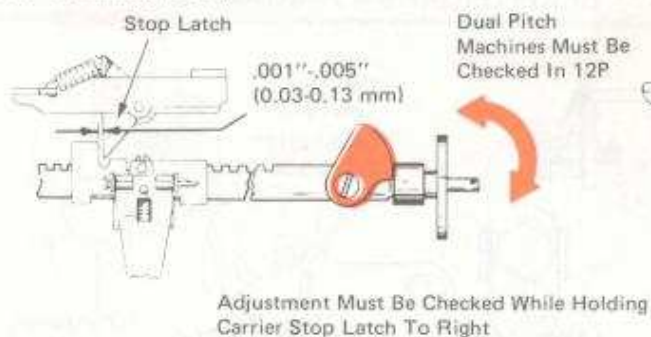
167 CR Latch Actuating Arm (03-203)



168 Pawl Clearance (03-420) (03-612) (03-203)





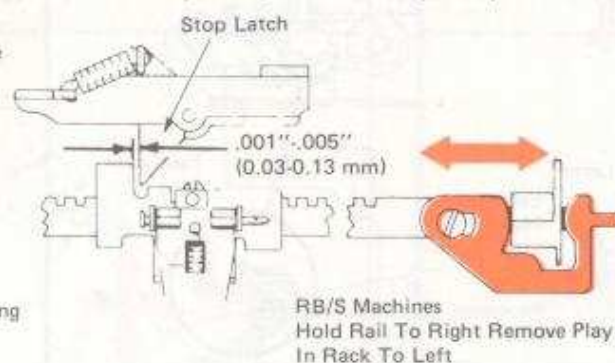
173 Overbank (09-6)

360

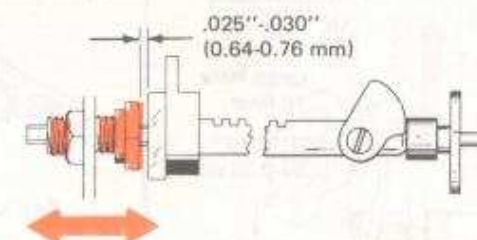
(Level 1)

(09-59)

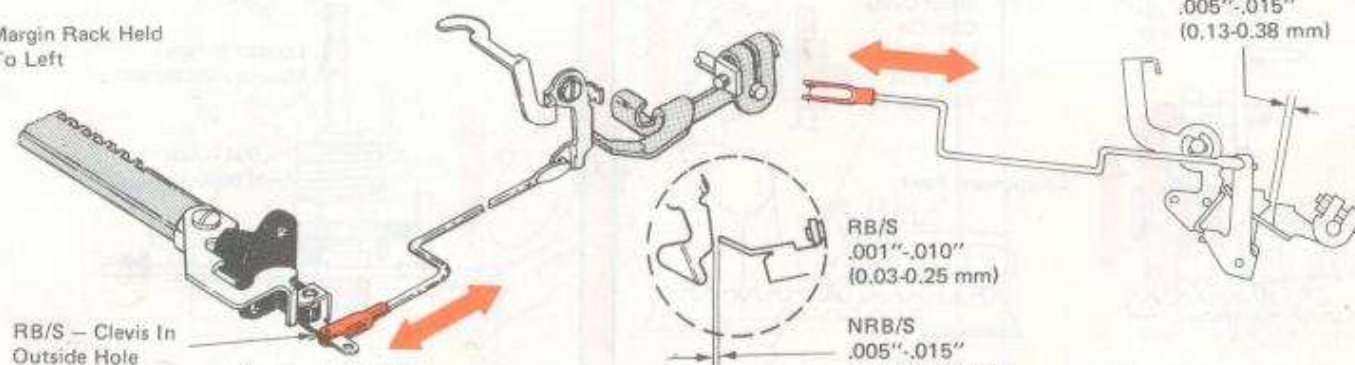
(10-10)



(Level 2)

174 Overbank Motion (09-21)

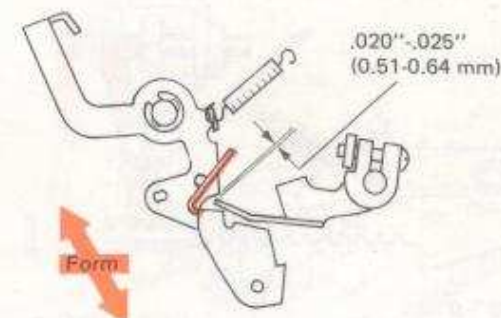
(Level 1)

175 Clutch Unlatching (03-557)Margin Rack Held
To Left

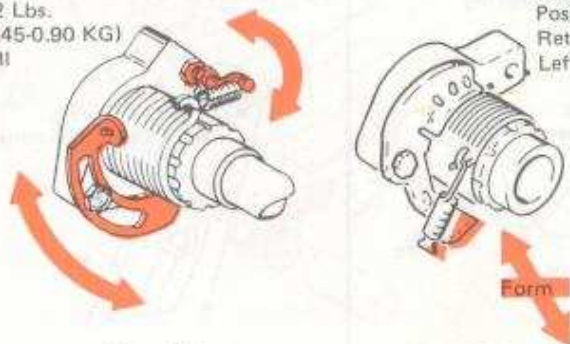
(Levels 1, 2, & 3)

(03-202)

(Level 4)

176 Torque Bar Latch (03-207)

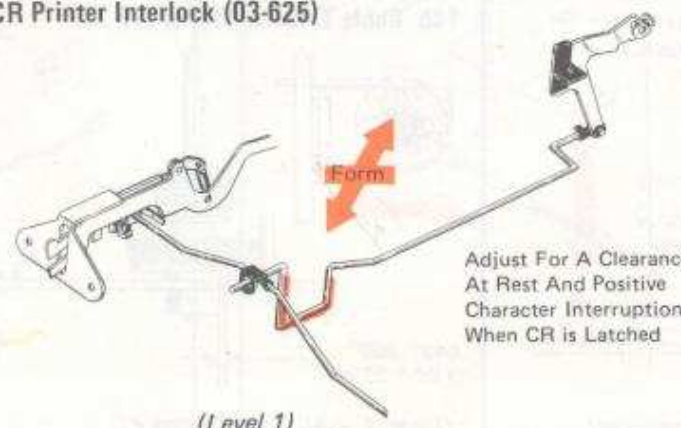
(Level 4 Only)

177 Torque Limiter (25-5)1-2 Lbs.
(0.45-0.90 KG)
Pull

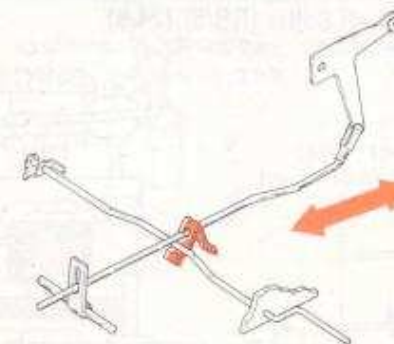
(Level 1)

Adjust For
Positive Carrier
Return Near
Left Margin

(Level 2)

178 CR Printer Interlock (03-625)

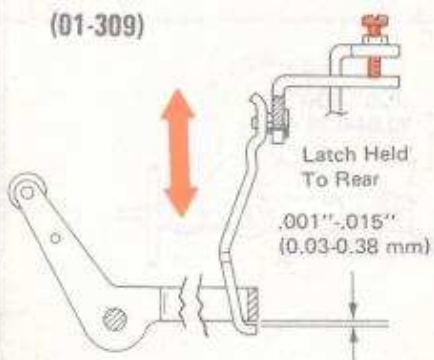
(Level 1)



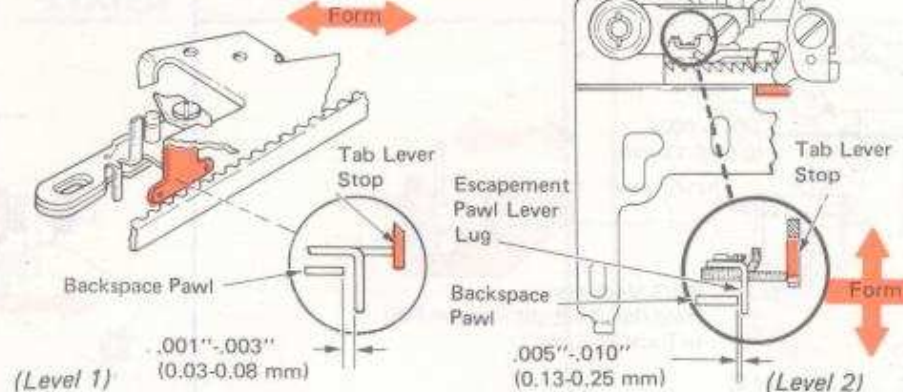
(Level 2)

179 Backspace Latch Height (NRB/S)

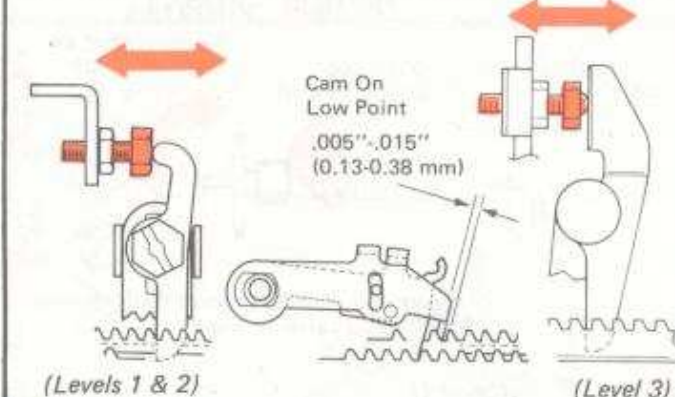
(01-309)



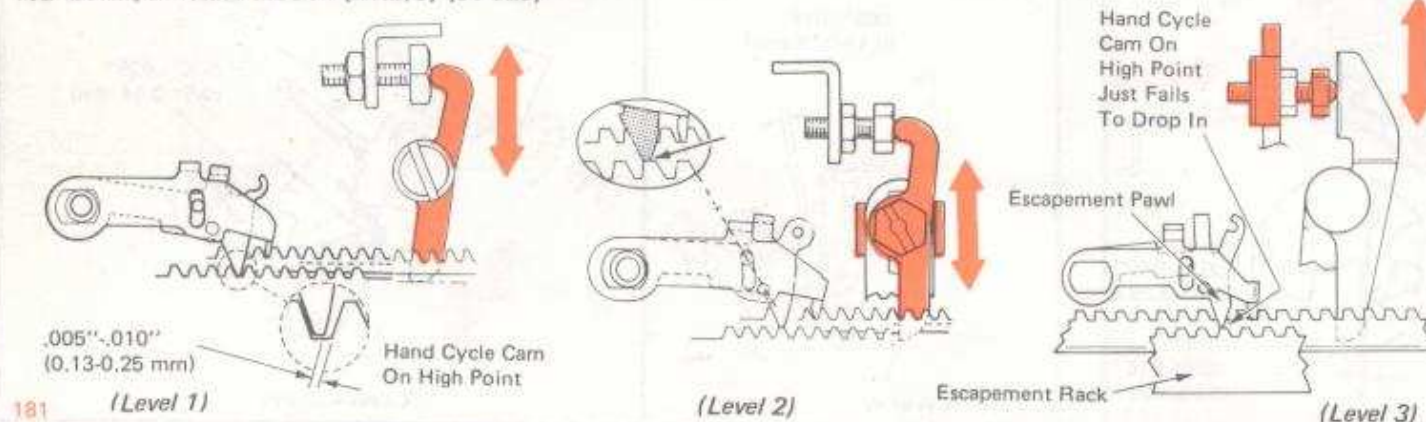
180 Tab Lever Stop (NRB/S) (01-314)



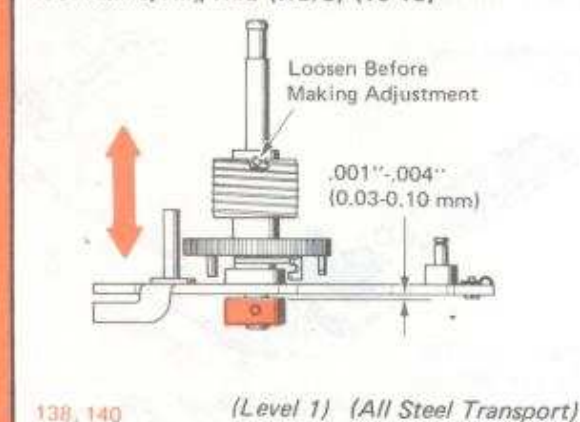
181 Backspace Rack (NRB/S) (01-307)



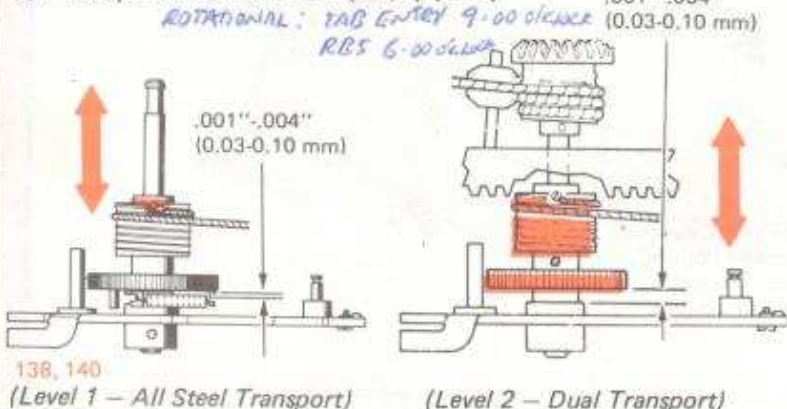
182 Backspace Rack Motion (NRB/S) (01-329)



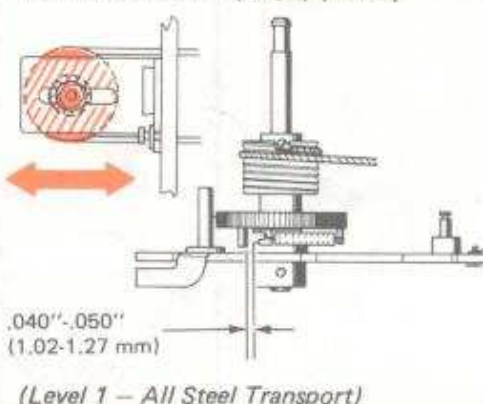
183 Mainspring Hub (RB/S) (19-13)



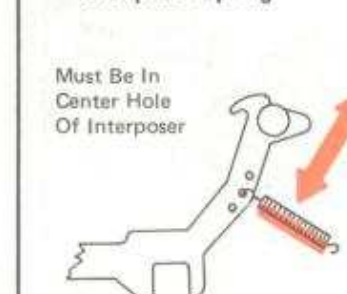
184 Escapement Shaft Collar (RB/S) (24-8)



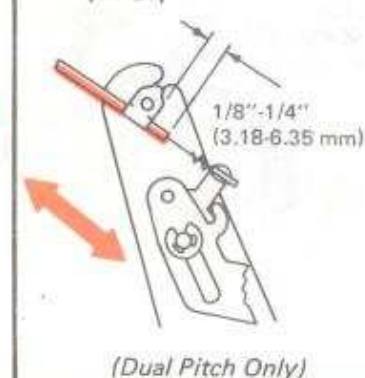
185 Cable Tension (RB/S) (19-23)



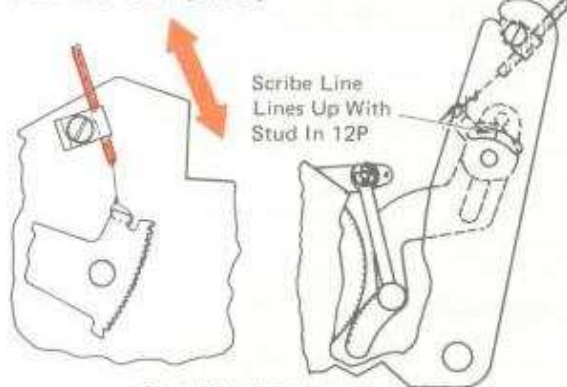
186 Rotary Backspace (25-210) Interposer Spring



187 Pitch Cam Cable Cover (24-37)

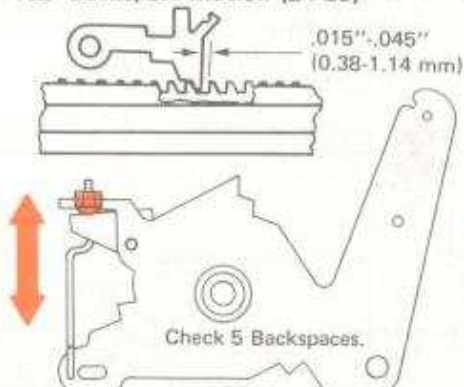


188 Pitch Cam (24-37)



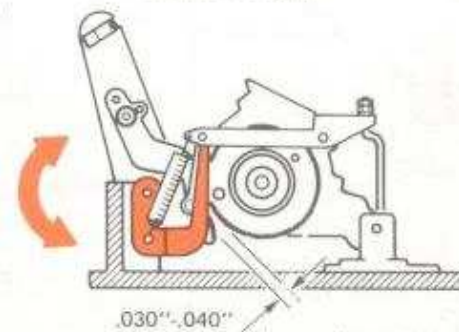
(Dual Pitch Only)

189 Backspace Motion (24-26)

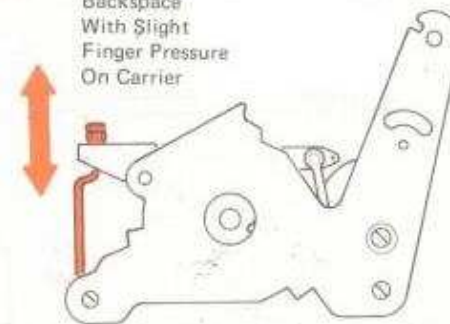


187, 188

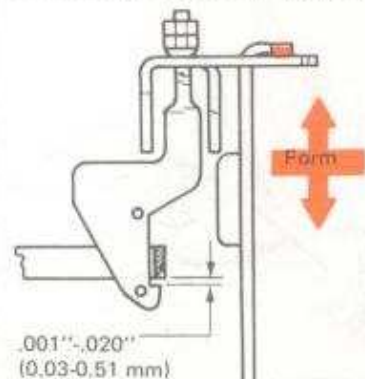
(Level 1)

NOTE: Dual Pitch Machines
Check In 10 Pitch.

(Level 2)

Reliable
Backspace
With Slight
Finger Pressure
On Carrier

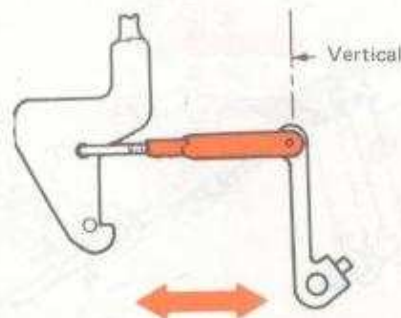
190 Backspace Latch Height (24-15)



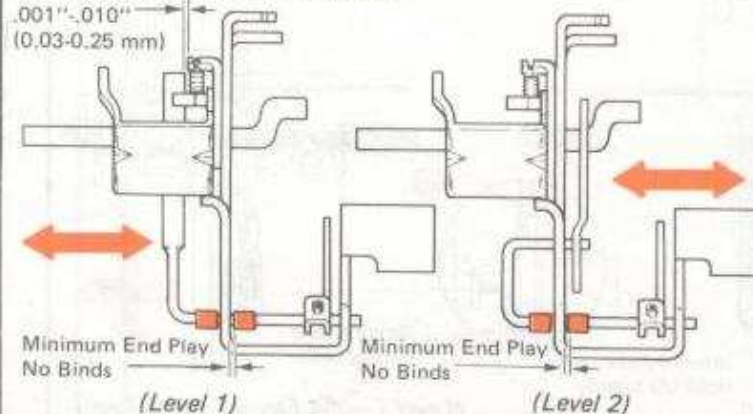
151, 189

(Level 1 Only)

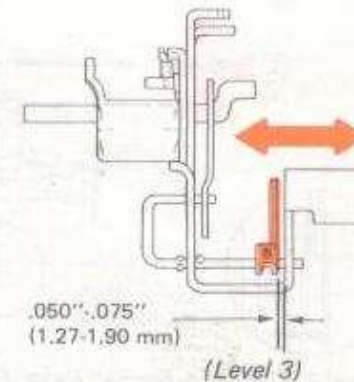
191 Index Interlock Link (24-16)



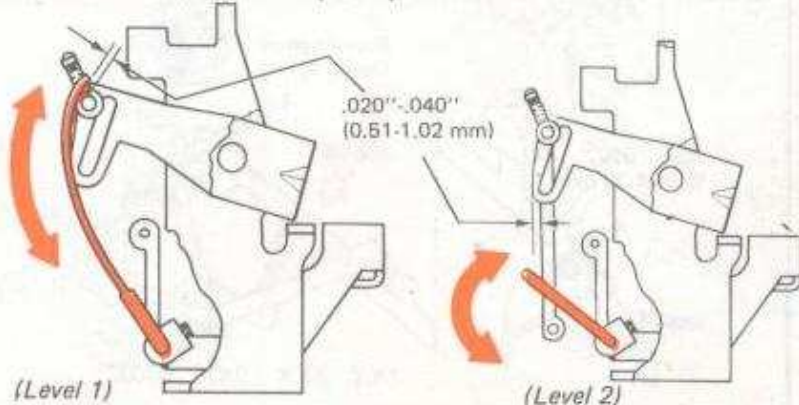
192 Index Interlock Shaft (24-20)



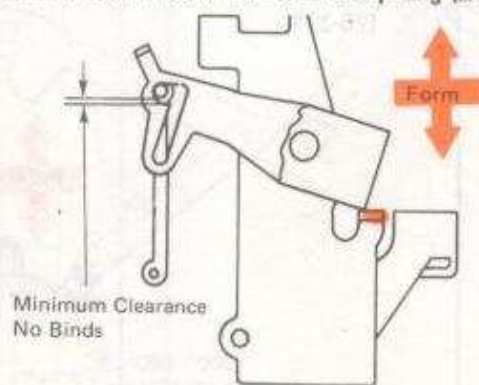
(24-18)



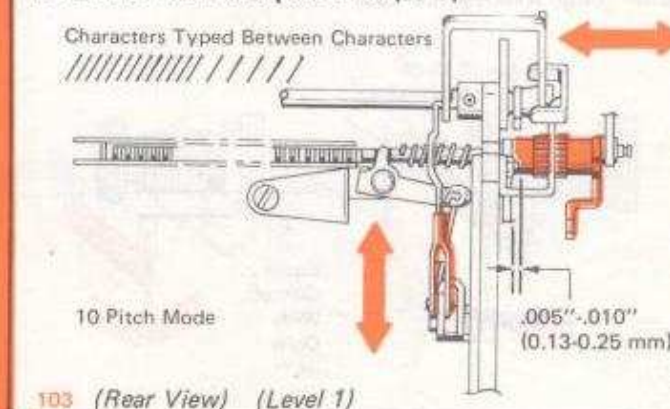
193 Index Interlock Paddle (24-20)



194 Index Transfer Bellcrank Stop Lug (24-9)

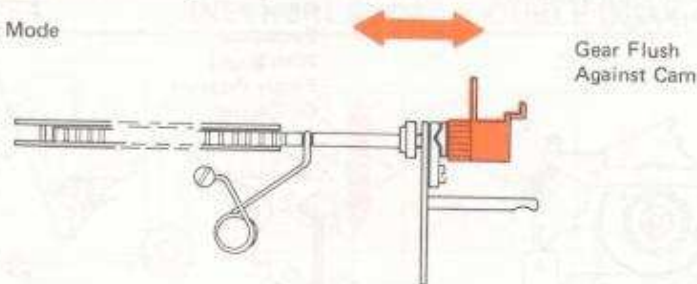


195 Lower Half Backspace Link (07-7)



196 Switch Pitch Gear (07-23)

12 Pitch Mode

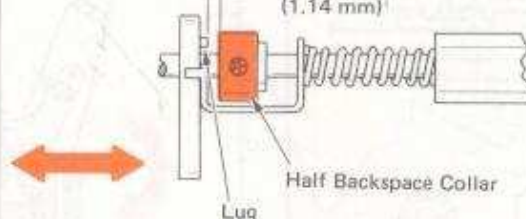


(Levels 2 & 3)

197 Half Backspace Collar (07-105)

Characters Typed Between Characters

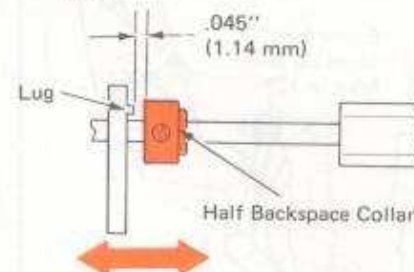
.045" (1.14 mm)



12 Pitch Mode

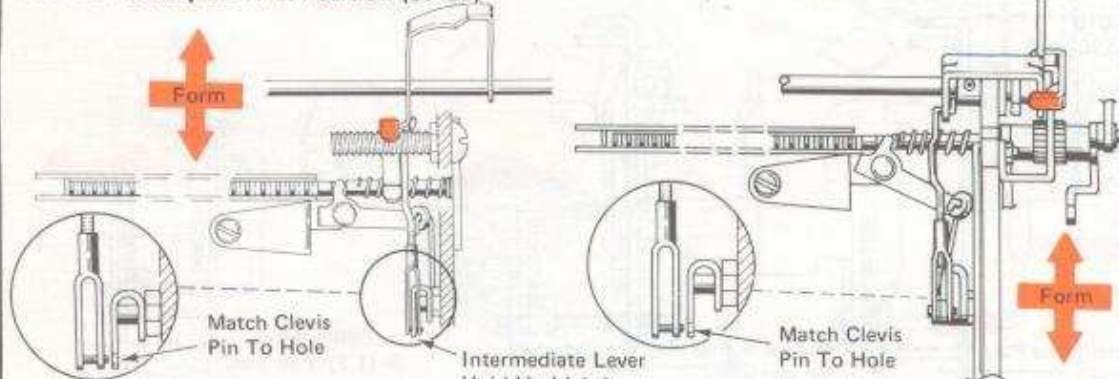
(Level 2)

12 Pitch Mode



(Level 3)

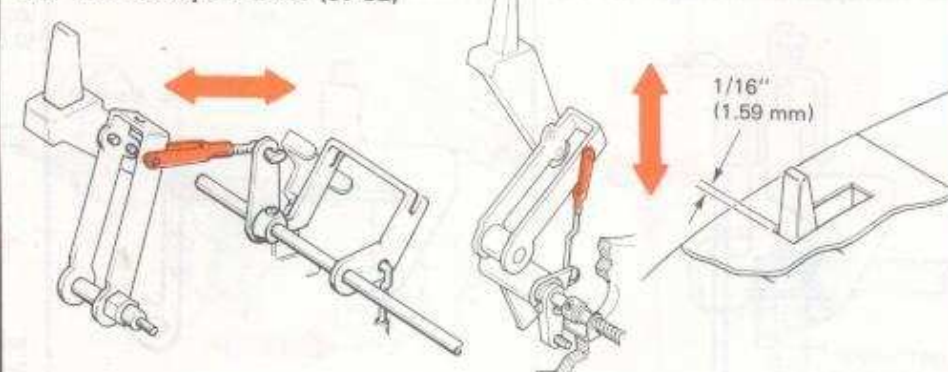
198 Half Backspace Rest Position (07-37)



(Level 1 - Pre- "A-Frame" Paper Feed)

(Level 1 - "A-Frame" Paper Feed)

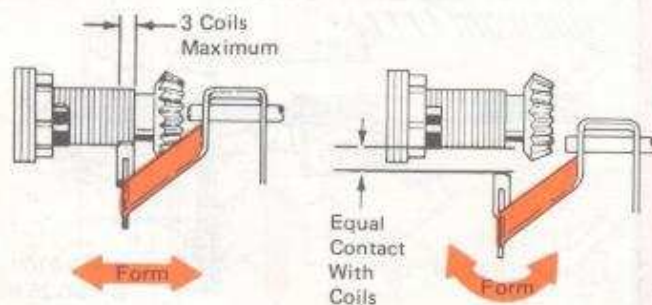
199 Half Backspace Lever (07-32)



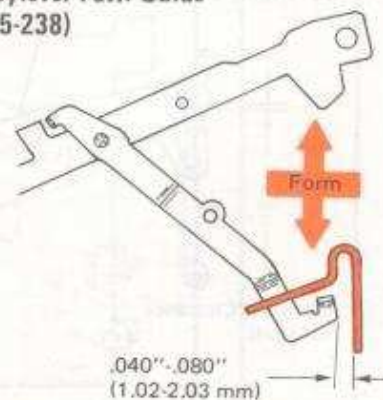
(Level 1)

(Levels 2 & 3)

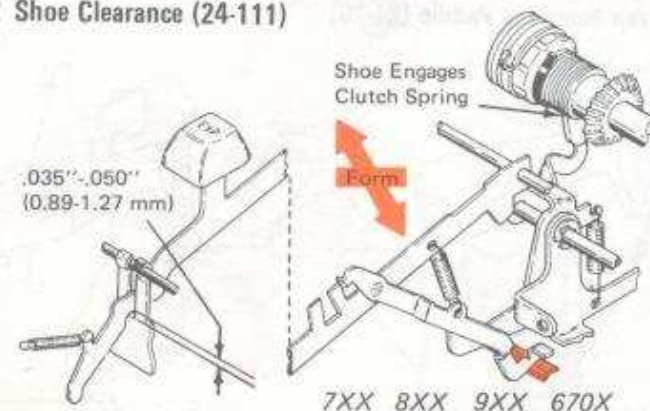
200 Shoe Overlap (24-105)



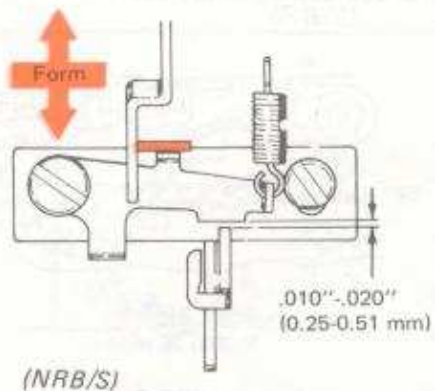
201 Keylever Pawl Guide (25-238)



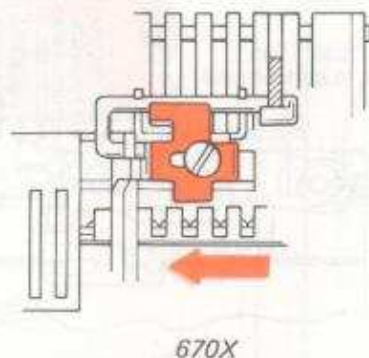
202 Shoe Clearance (24-111)



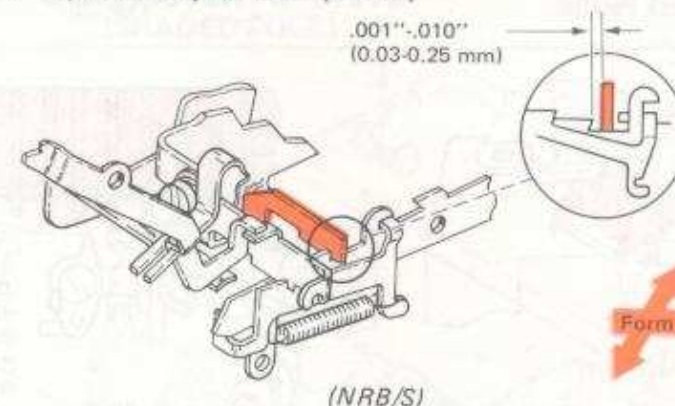
203 Keylever Pawl (24-102)



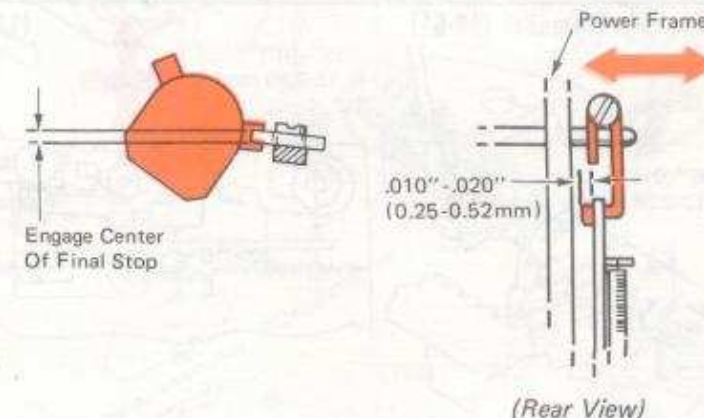
204 Keylever Pawl (24-205)



205 Express Backspace Latch (24-102)

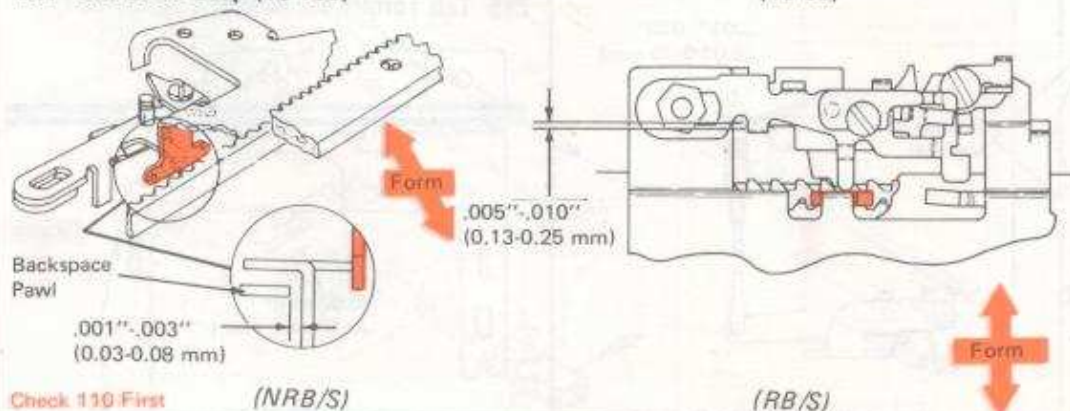


206 Tab Rack Radially (18-35) (19-31)



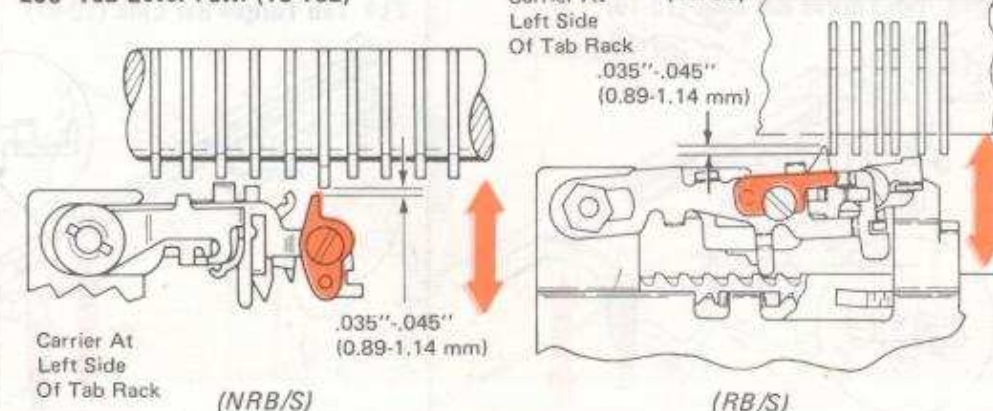
207 Tab Lever Stop (18-153)

(19-69)



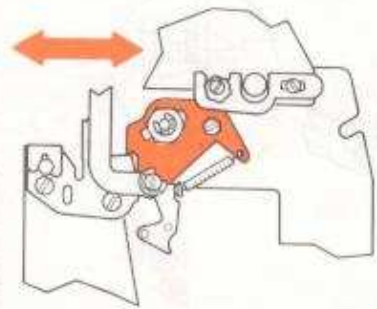
208 Tab Lever Pawl (18-152)

(19-68)

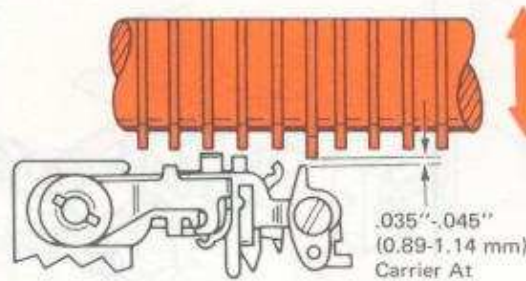


209 Tab Rack Parallel

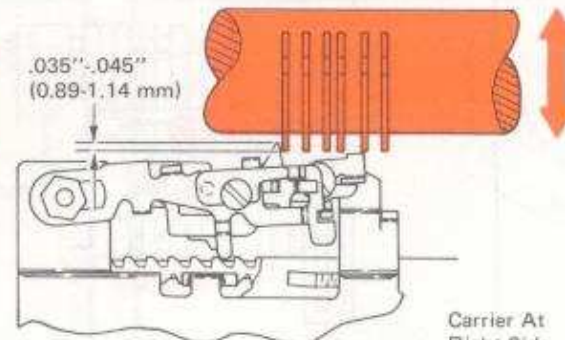
(18-39)



(Right Side View)



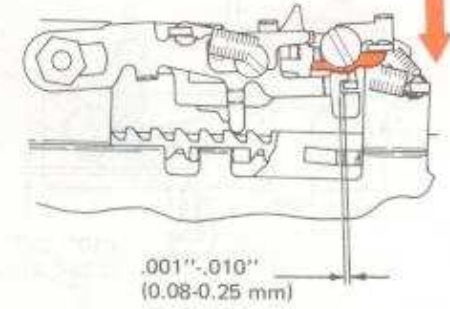
(NRB/S)



(RB/S)

Carrier At
Right Side
Of Tab Rack

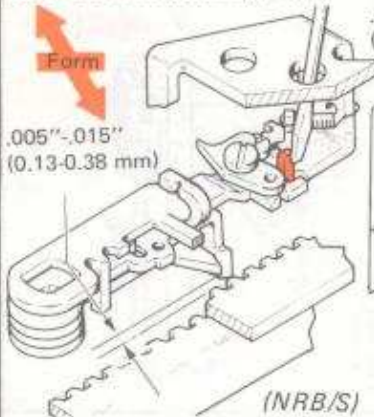
210 Tab Latch Bite (07-002)



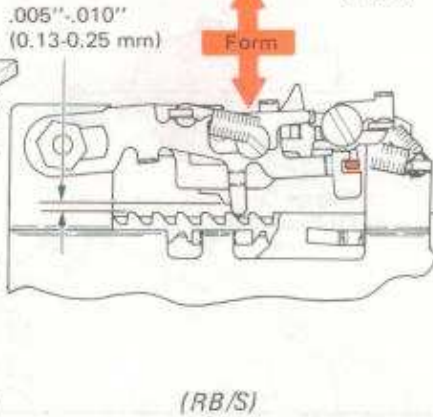
(RB/S)

211 Pawl Clearance (18-81)

(19-9)

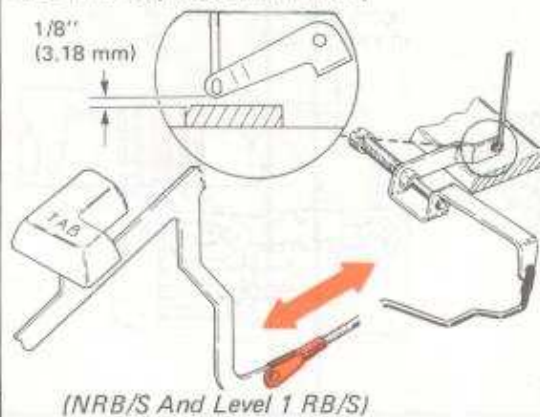


(NRB/S)

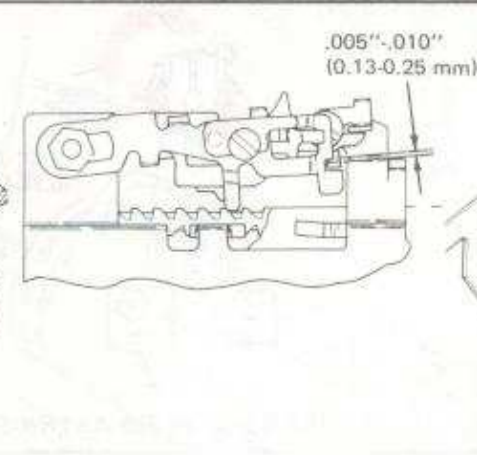


(RB/S)

212 Tab Keylever Link (18-58)

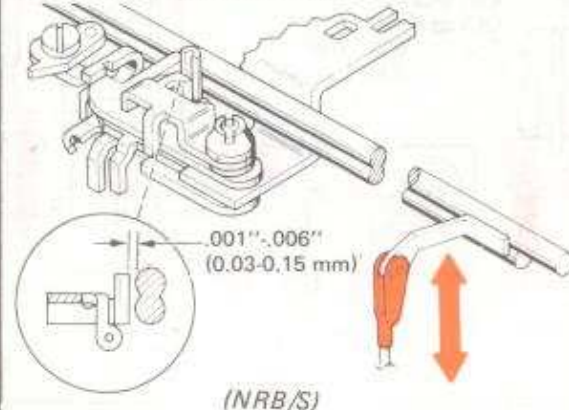


(NRB/S And Level 1 RB/S)



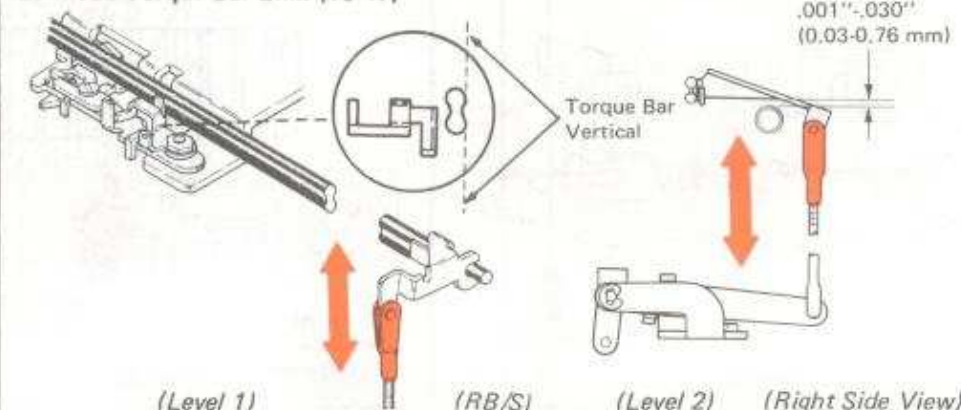
(Level 2 - RB/S)

213 Tab Torque Bar Link (18-19)



(NRB/S)

214 Tab Torque Bar Link (19-47)



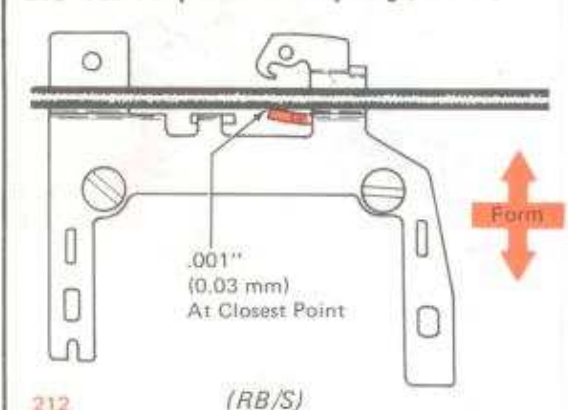
(Level 1)

(RB/S)

(Level 2)

(Right Side View)

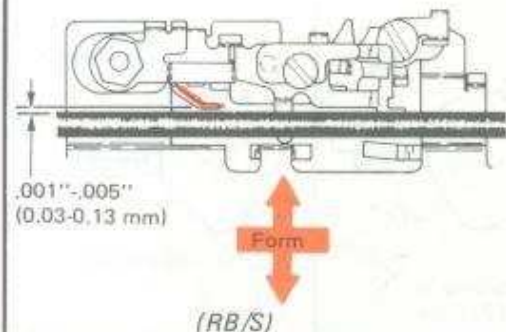
215 Tab Torque Bar Backup Lug (07-001)



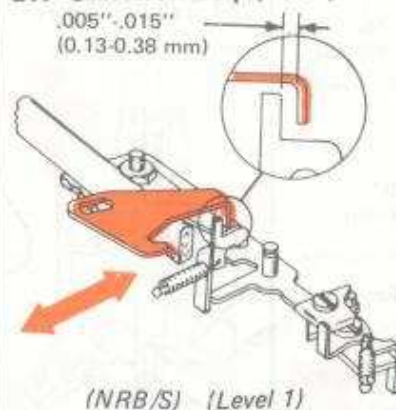
(RB/S)

212

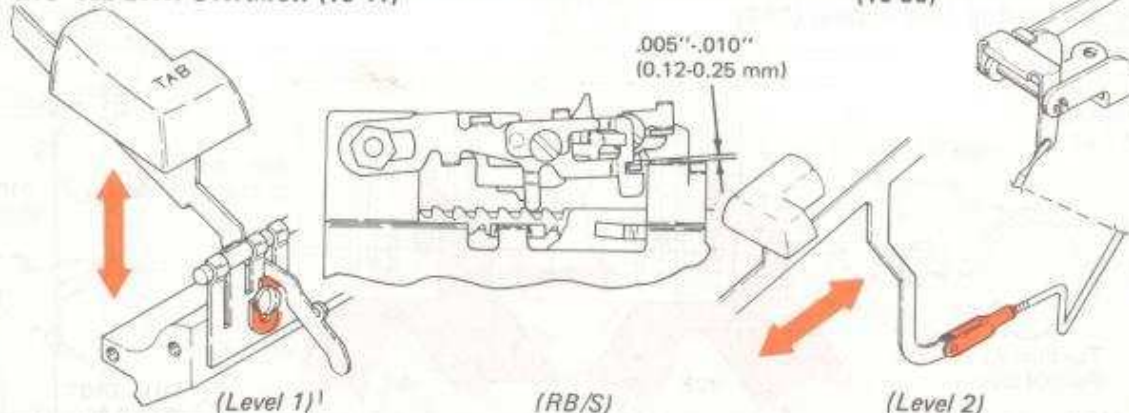
216 Tab Trigger (19-71)



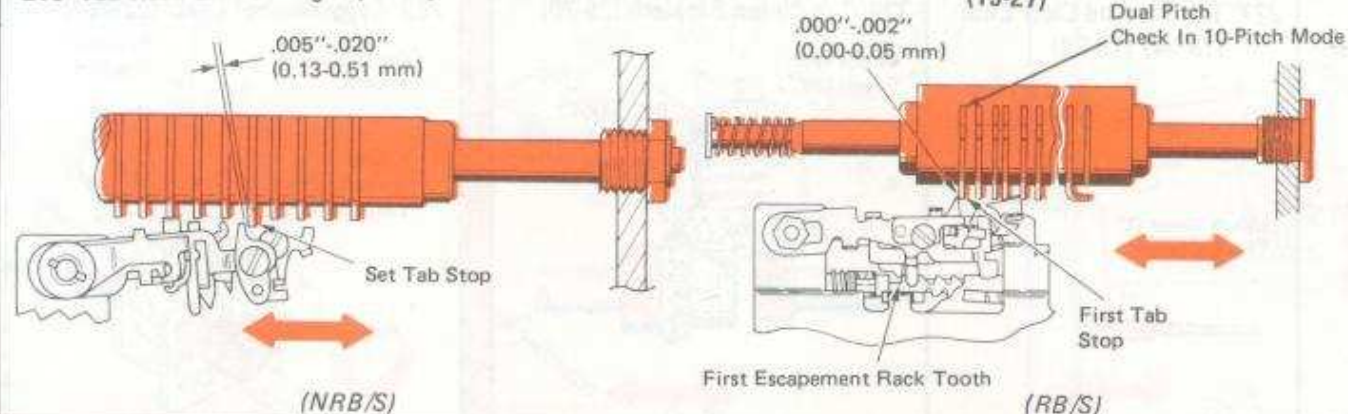
217 Overthrow Stop (18-91)



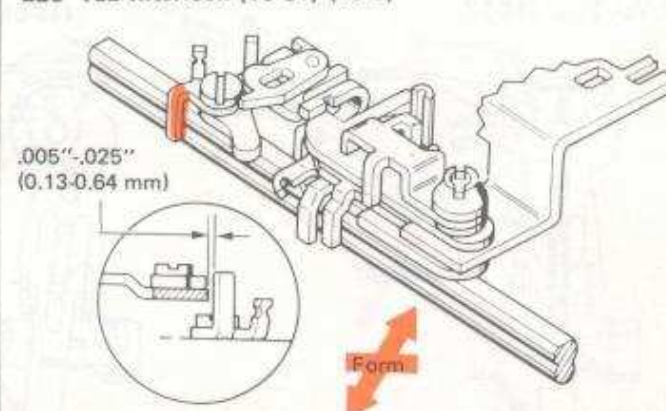
218 Tab Lever Overthrow (19-41)



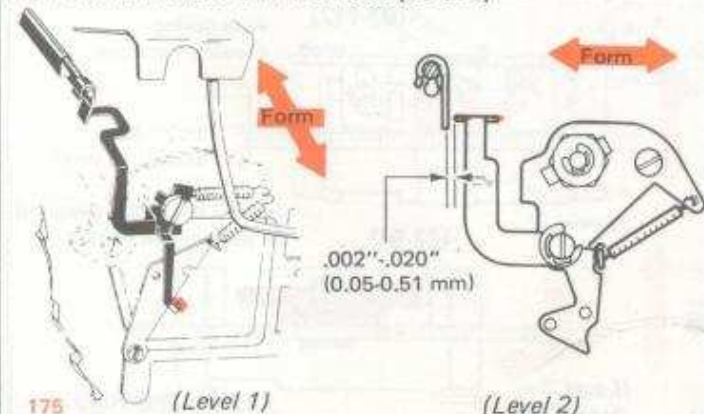
219 Tab Rack Left To Right (18-07)



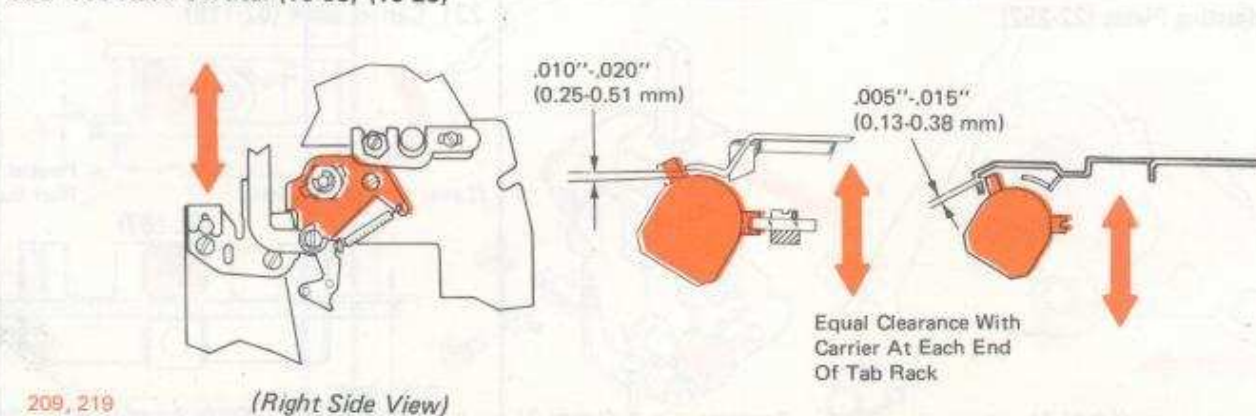
220 Tab Interlock (18-81) (19-9)



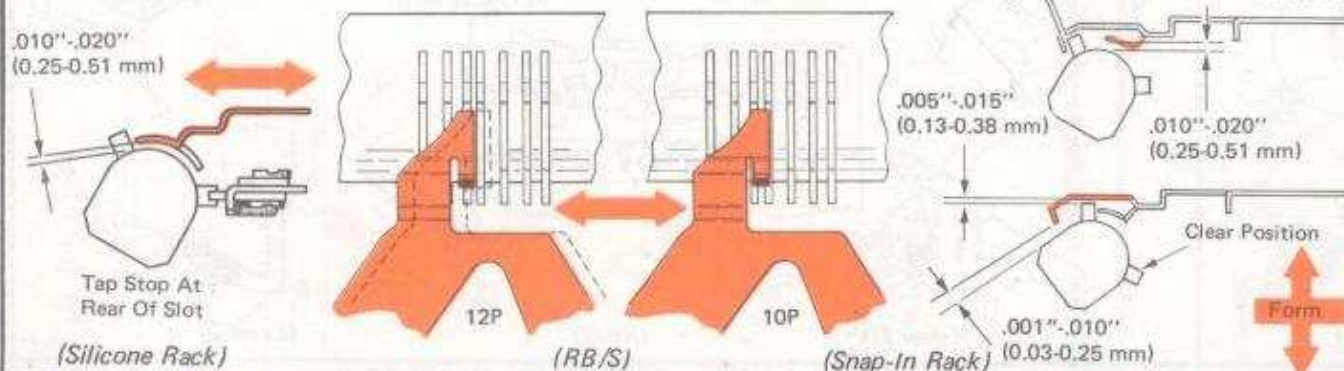
221 Carrier Return Tab Interlock (03-575)



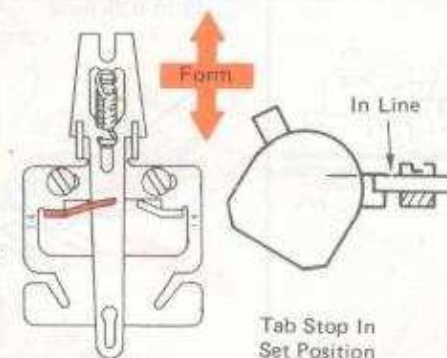
222 Tab Rack Vertical (18-30) (19-29)



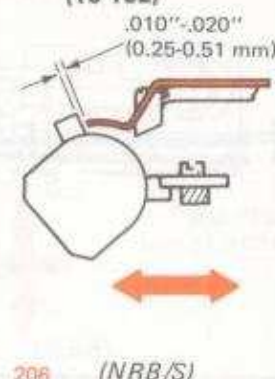
223 Tab Set And Clear Bracket (19-2)



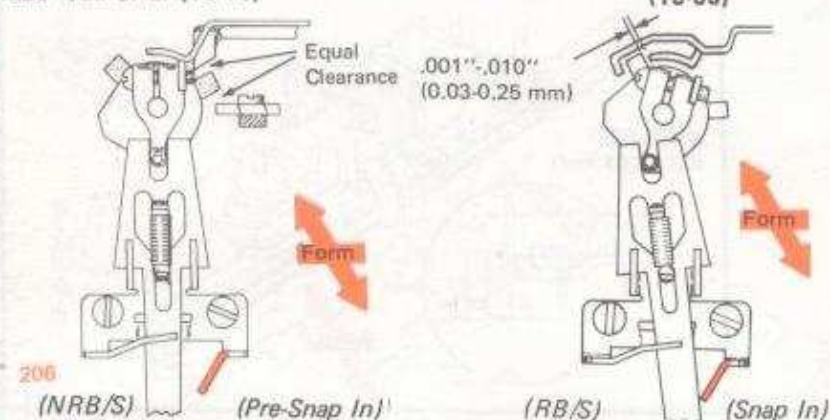
224 Tab Set (18-16) (19-55)



225 Tab Clear Bracket (18-132)



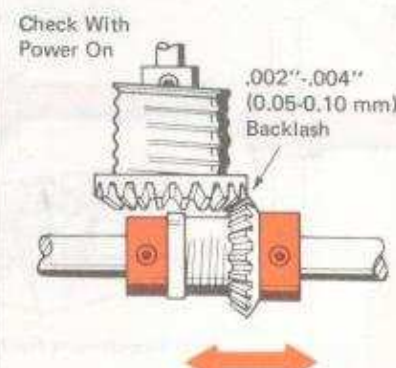
226 Tab Clear (18-16)



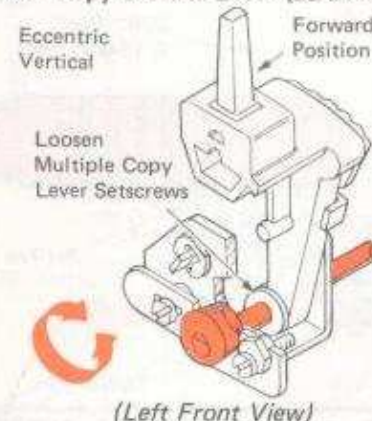
227 Tab Set And Clear Link (19-54) (18-20)



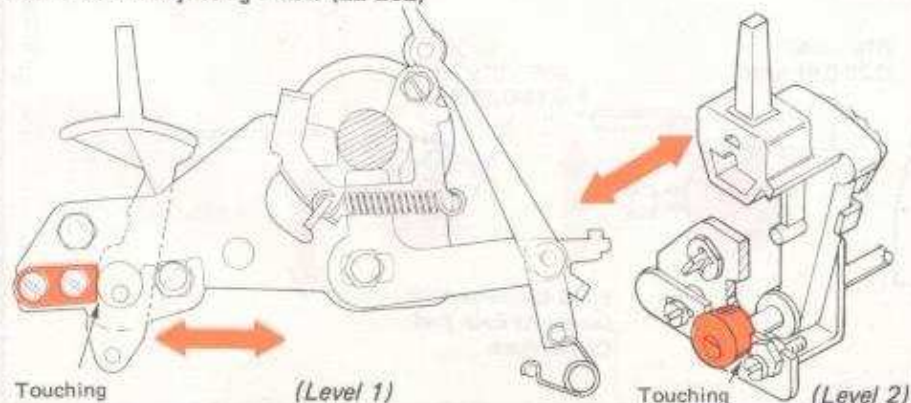
228 Tab Pinion Backlash (25-20)



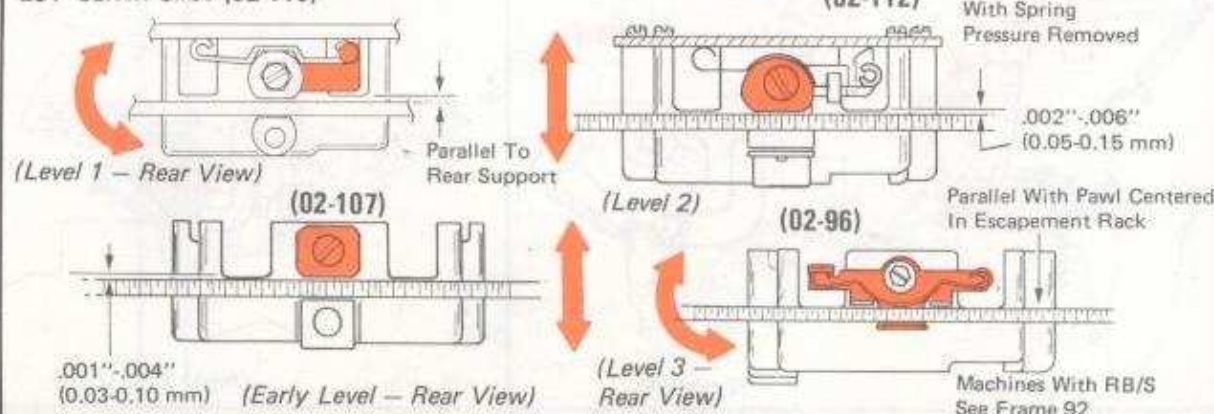
229 Copy Control Lever (22-254)



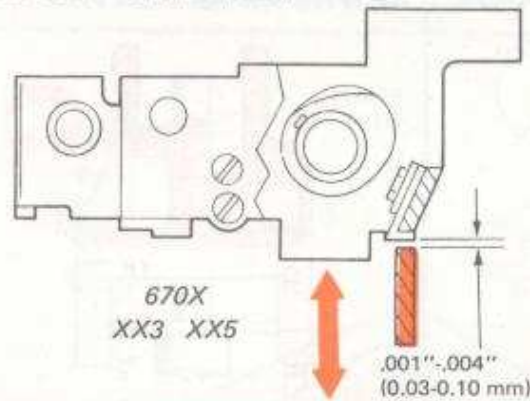
230 Platen Adjusting Plates (22-252)



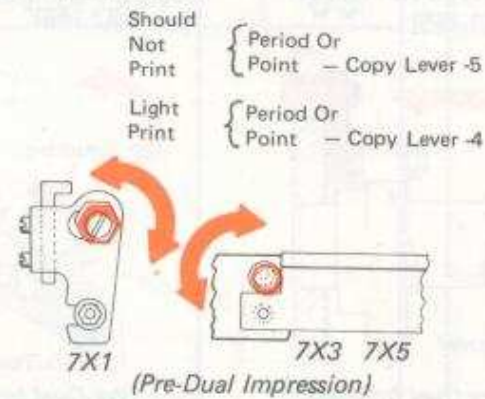
231 Carrier Shoe (02-119)



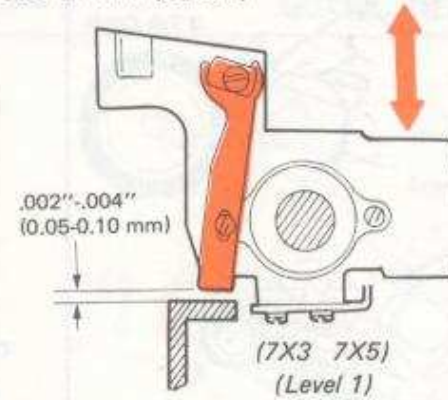
232 Carrier Support (02-8)



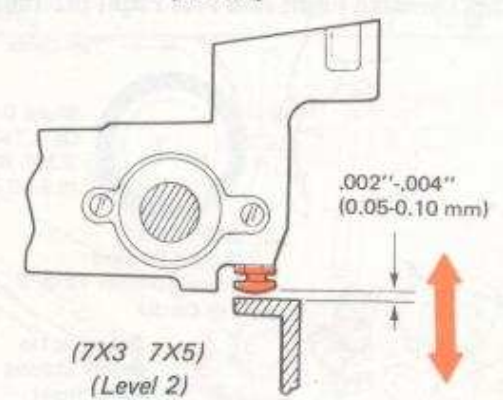
233 Anvil (02-008)



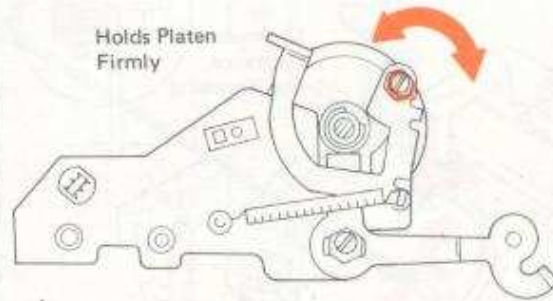
234 Buffers (02-101)



(02-105)

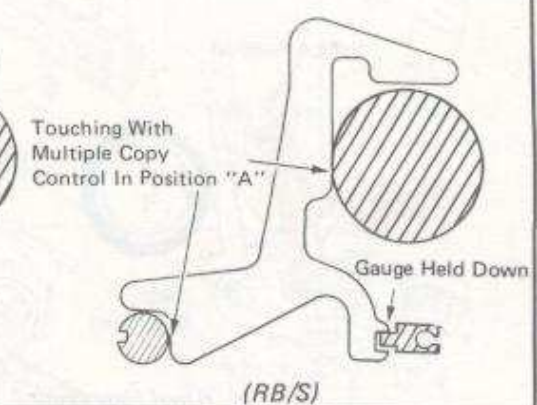
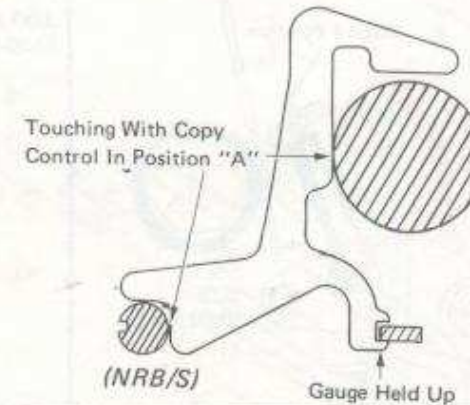
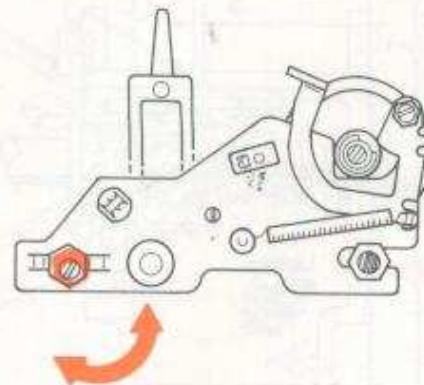


235 Platen Latches (22-293)

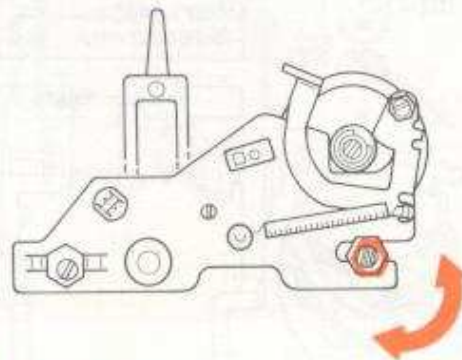


236 Platen Front To Rear

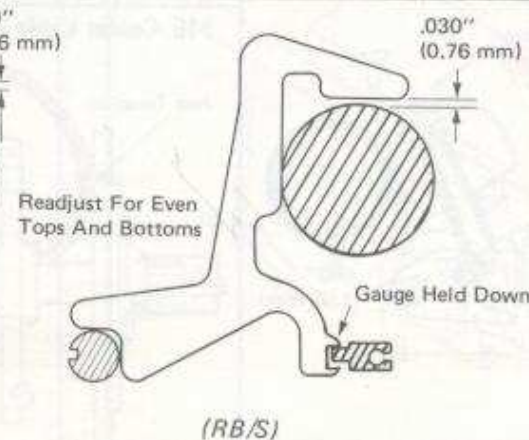
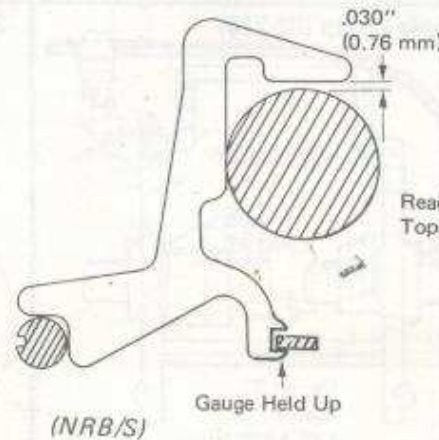
(22-253)



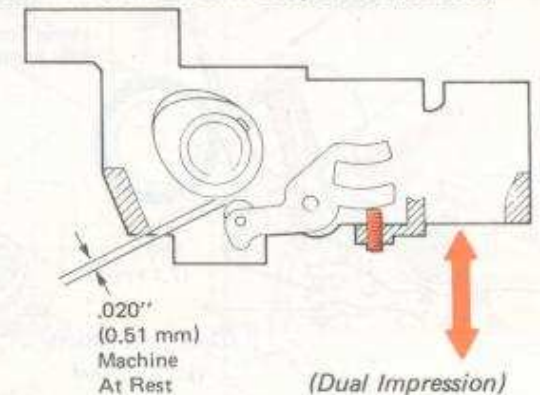
237 Platen Height (22-291)

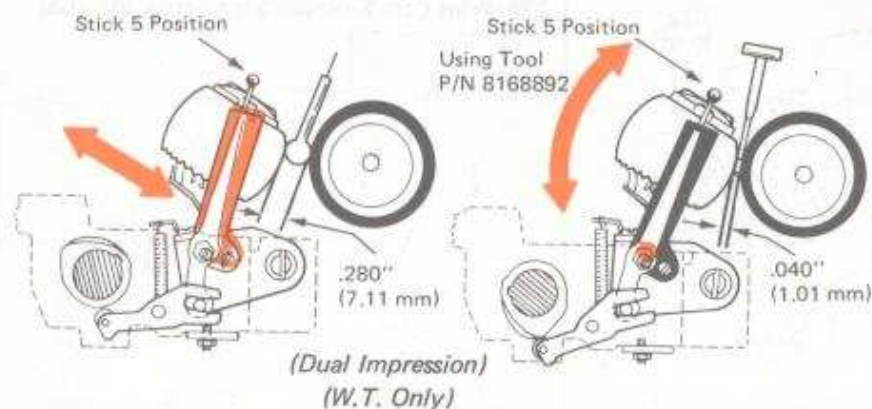
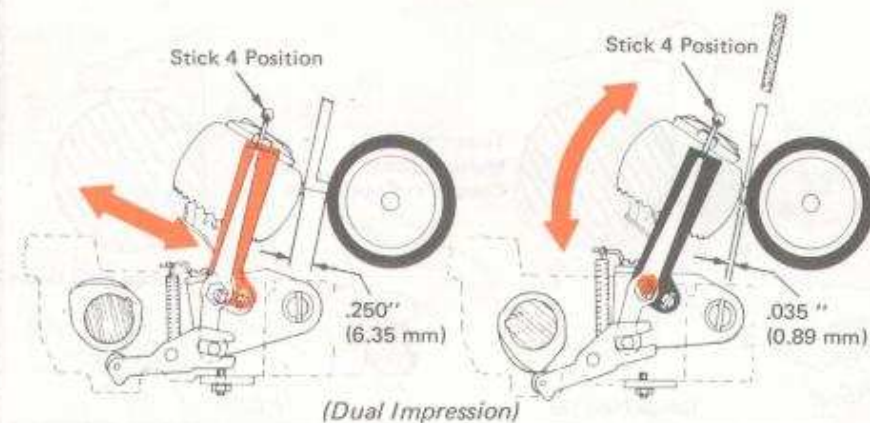
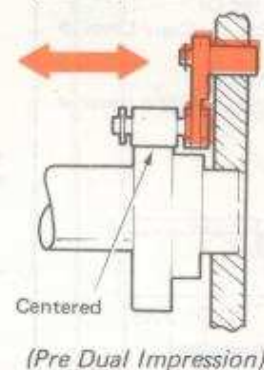
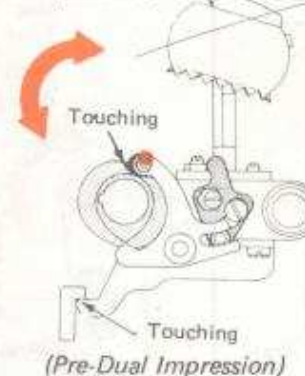
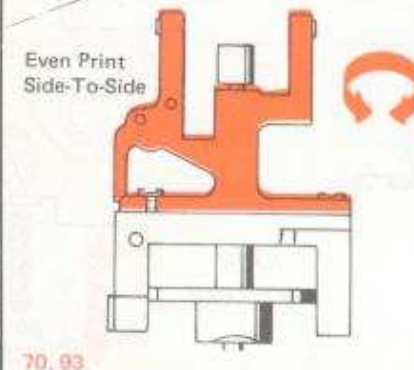
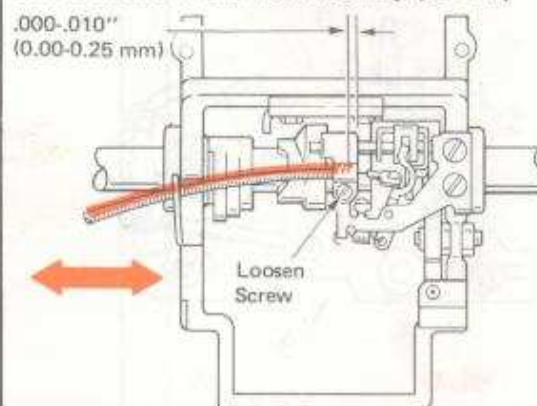
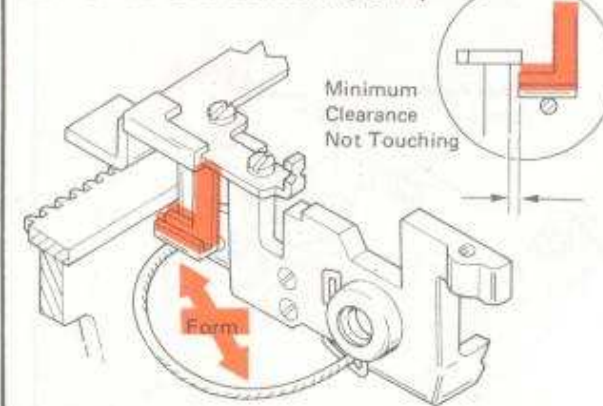
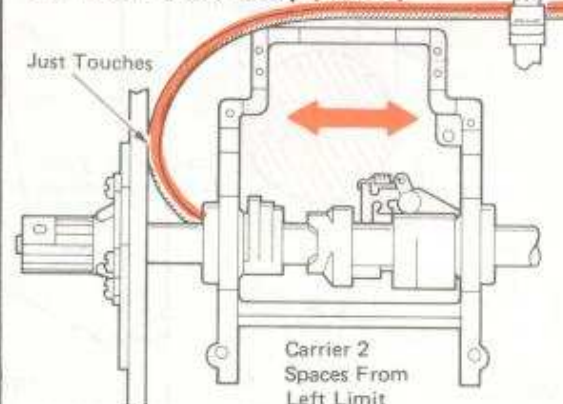
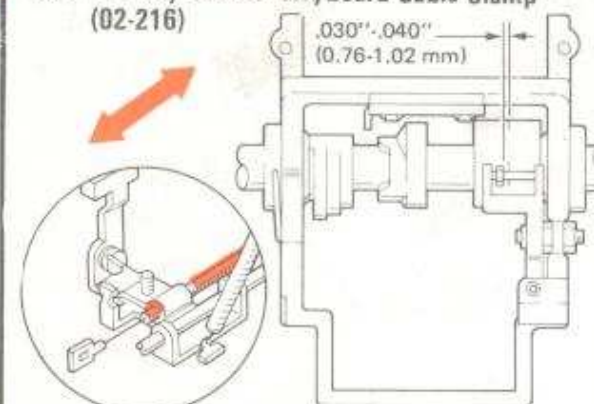


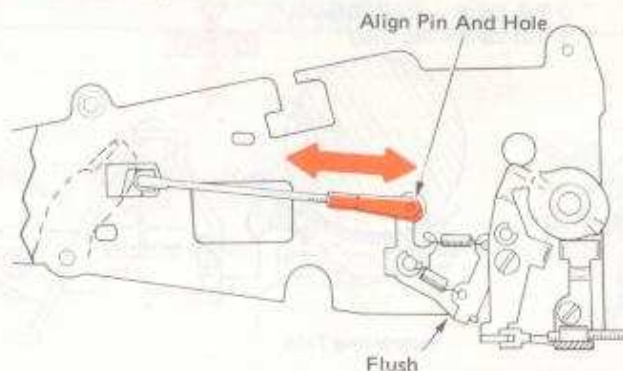
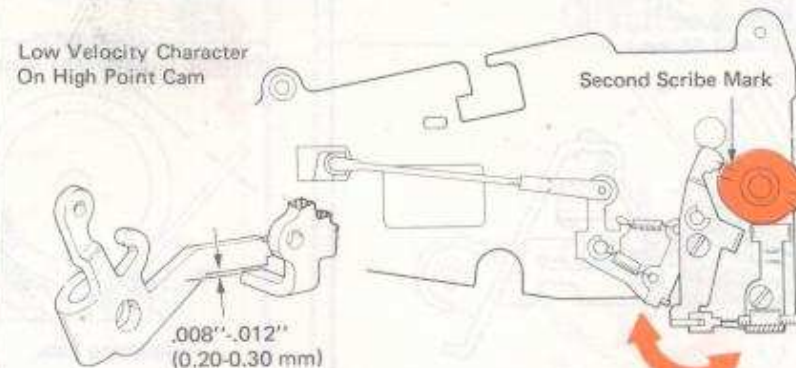
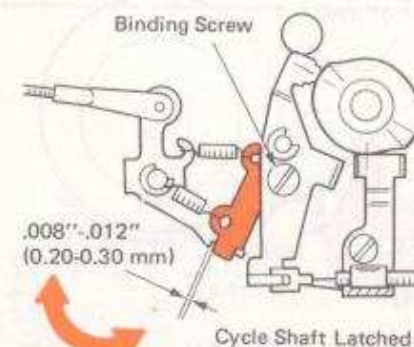
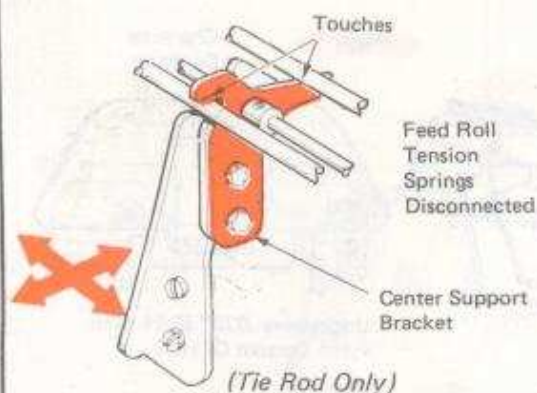
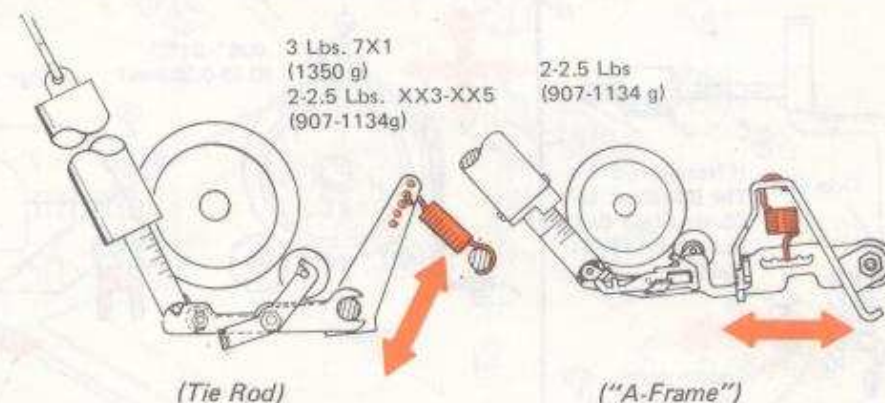
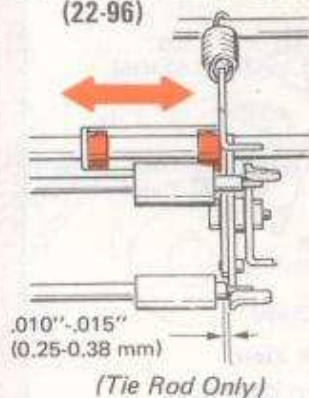
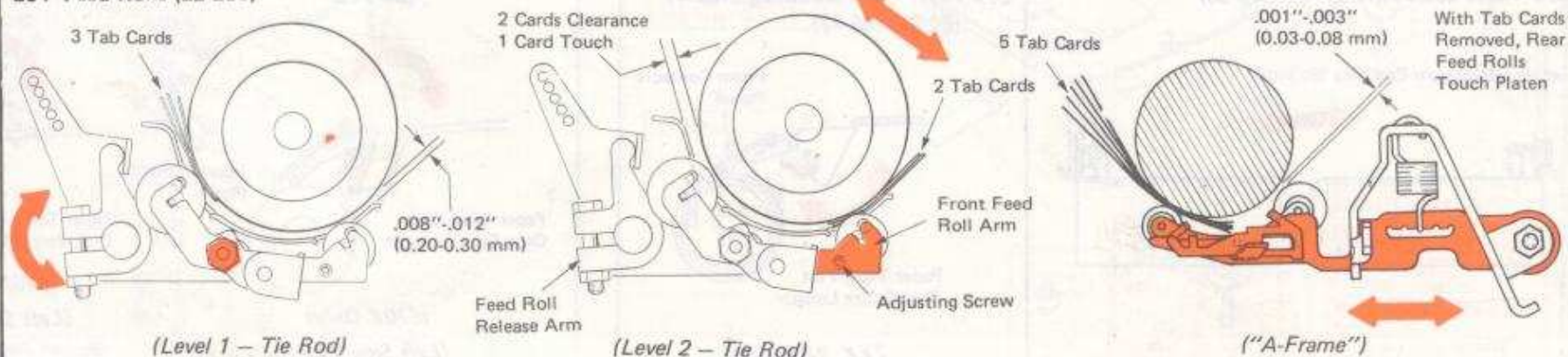
233
Check Paper Feed And Index



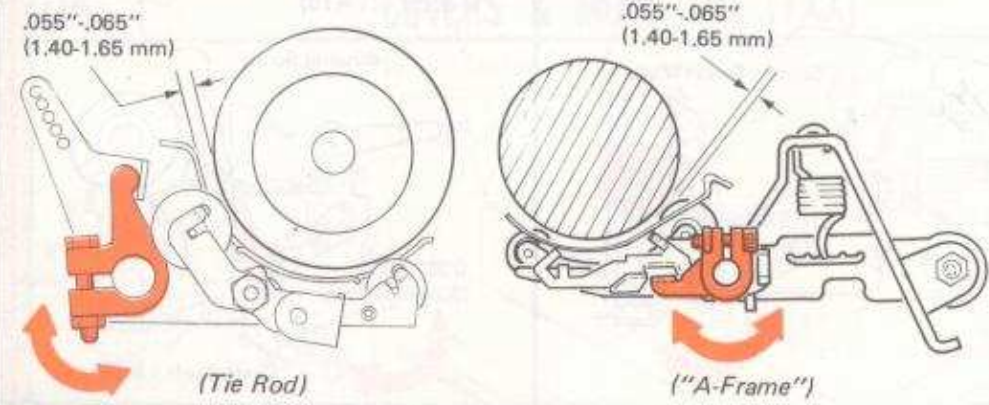
238 Print Cam Follower Stop Screw (02-205)



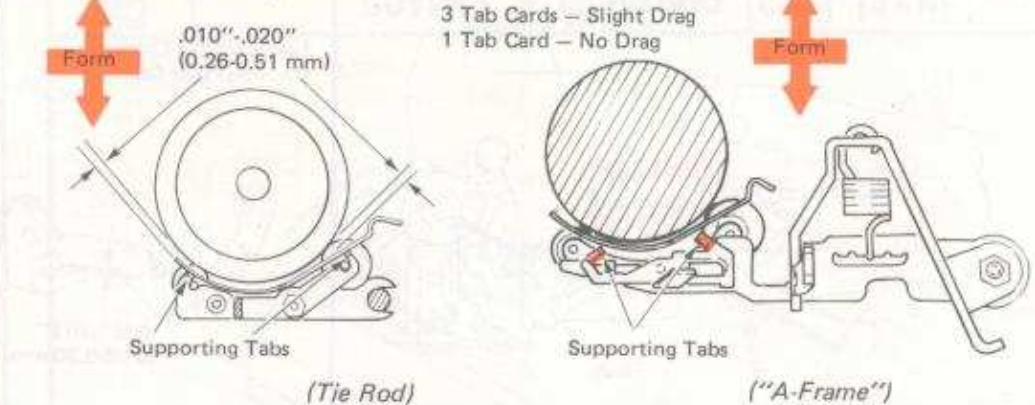
239 Powered Flight And Free Flight (02-160)**240 Print Cam Follower (02-165)****241 Cam Follower Restoring (02-165)****242 Yoke (02-520)****243 Velocity Control Cable Clamp (02-216)****244 Carrier Cable Deflector (19-74)****245 Center Cable Clamp (02-216)****246 Velocity Control Keyboard Cable Clamp (02-216)**

247 Low Velocity Latch Link (21-411)**248 Low Velocity Cam (21-426)****249 Low Velocity Cam Follower Stop (21-415)****250 Paper Feed Support (22-208)****251 Platen Latches (22-293)****252 Feed Roll Tension (22-286)****253 Feed Roll End Play (22-96)****254 Feed Rolls (22-286)**

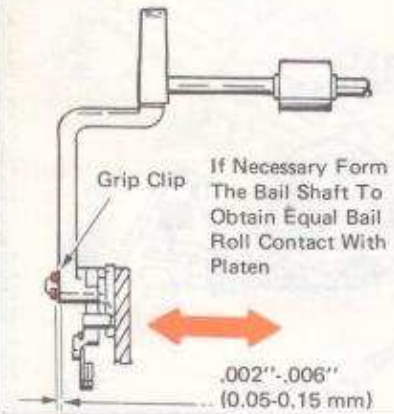
255 Paper Release (22-93)



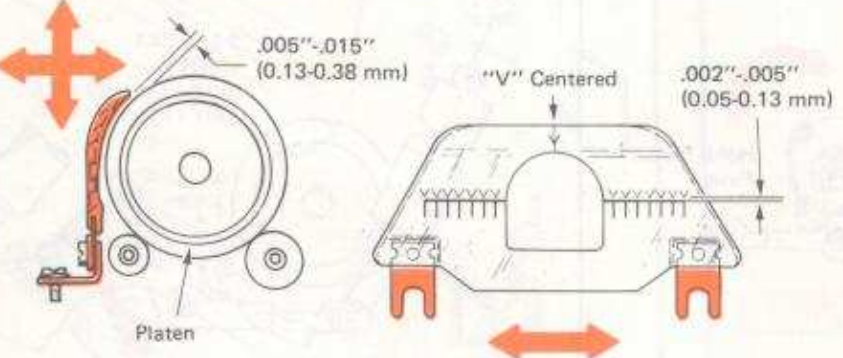
256 Deflector (22-134)



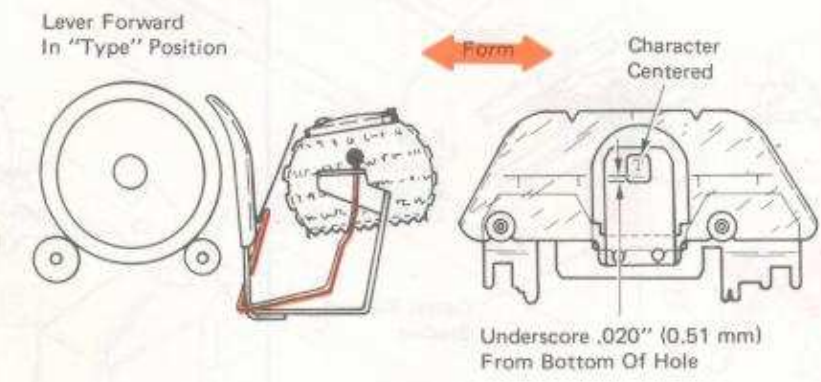
257 Paper Bail (22-1)



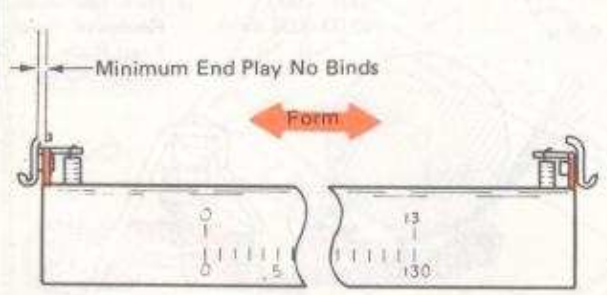
258 Cardholder (22-216)



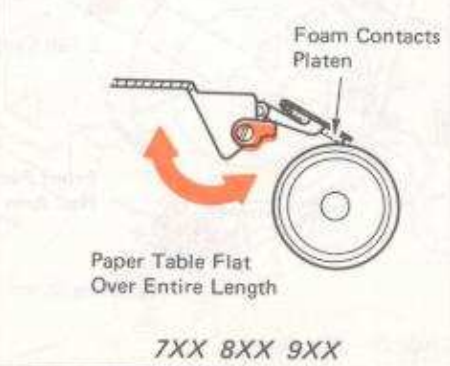
259 Removable Print Shield (22-226)



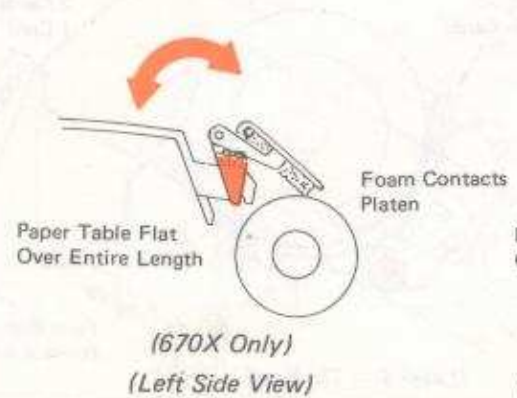
260 Paper Table Arm (04-90) (05-56)



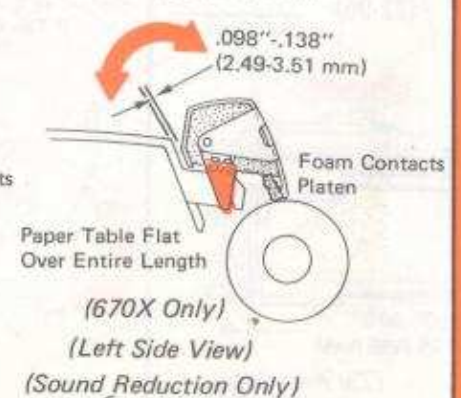
261 Paper Table Mounting Bracket (04-92) (05-47)



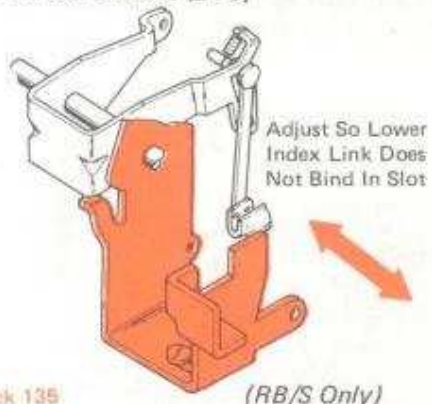
(05-141)



(30-141, 166)



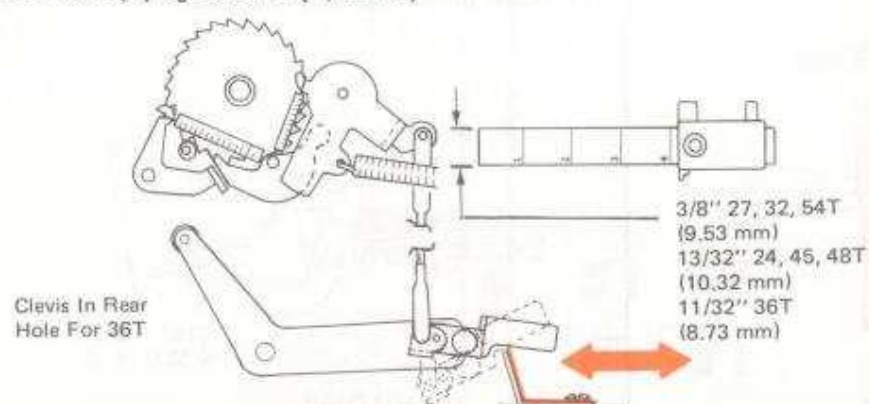
262 Switch Bracket (24-9)



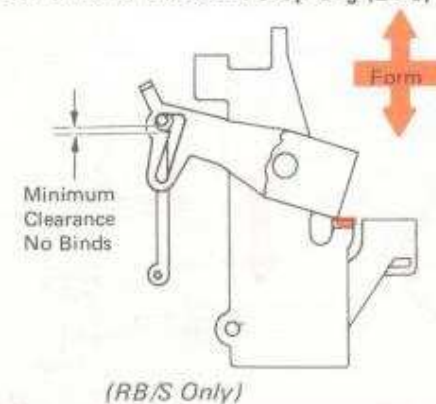
Check 135

(RB/S Only)

263 Multiplying Lever Stop (20-412)

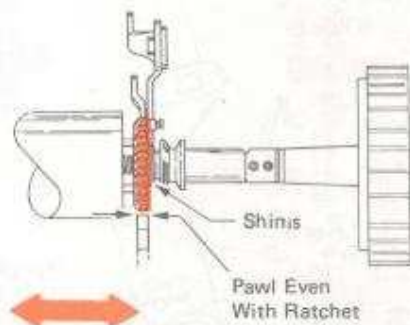


264 Index Transfer Bellcrank Stop Lug (24-9)

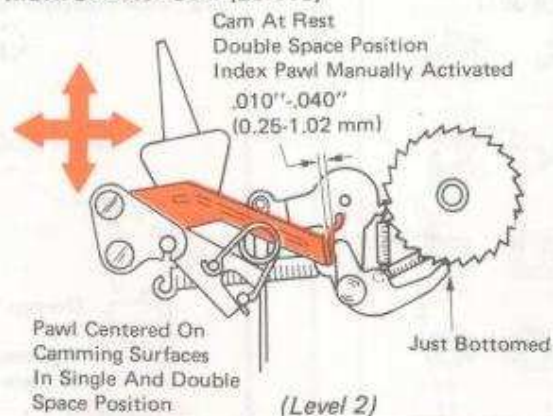


(RB/S Only)

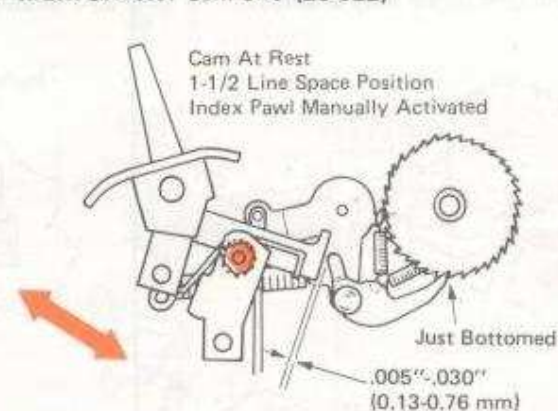
265 Ratchet Alignment (12-20)



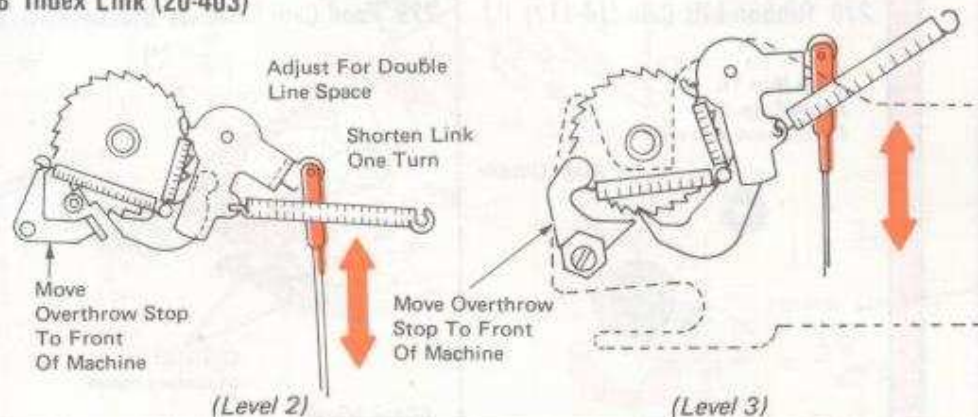
266 Index Selector Cam (20-318)



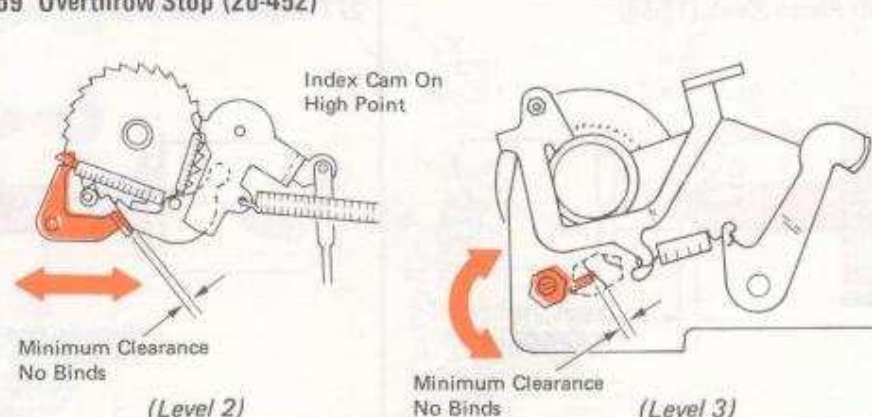
267 Index Selector Cam 54T (20-322)



268 Index Link (20-403)

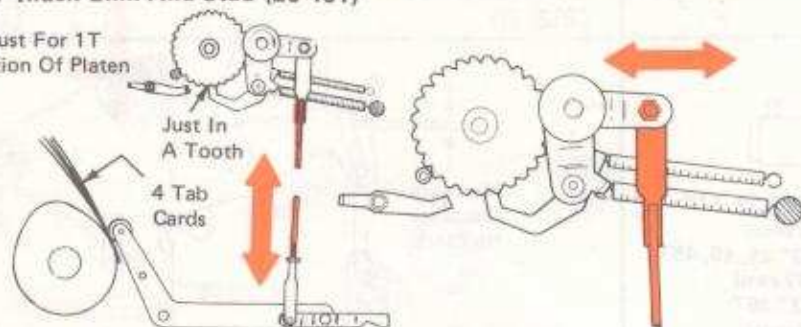


269 Overthrow Stop (20-452)



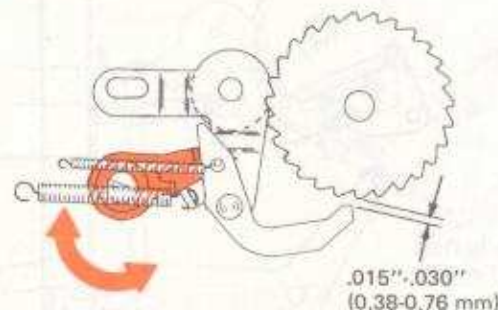
270 Index Link And Stud (20-401)

Adjust For 1T
Motion Of Platen



(Level 1 Only)

271 Upper Index Pawl Stop (20-437)



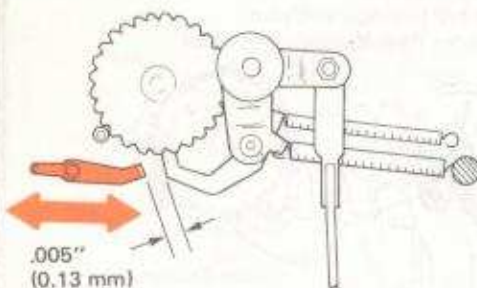
(Level 1 Only)

272 Multiplying Control Lever (20-314)



(Level 1)

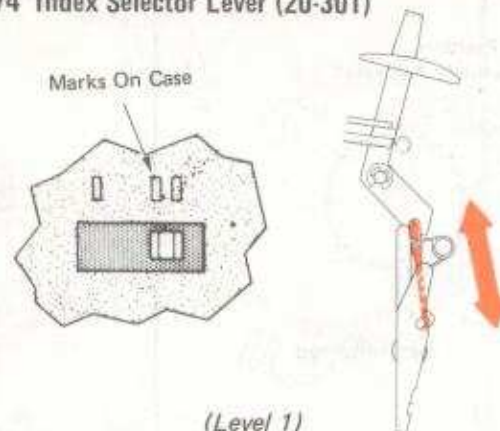
273 Platen Overthrow Stop (20-452)



(Level 1)

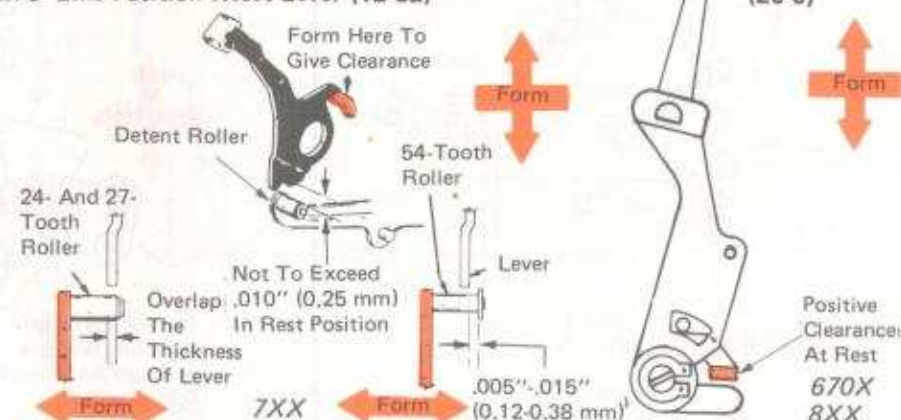
274 Index Selector Lever (20-301)

Marks On Case

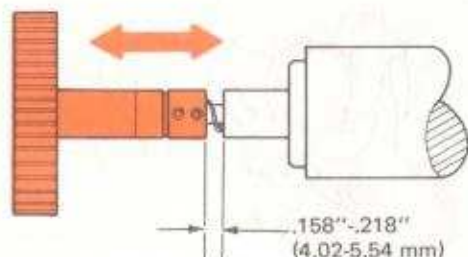


(Level 1)

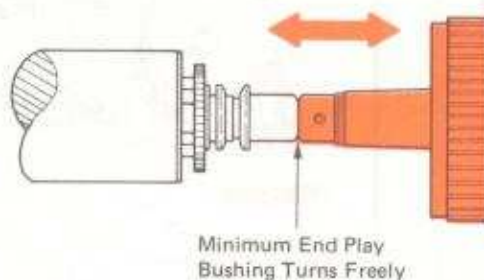
275 Line Position Reset Lever (12-32)



276 Left Platen Knob (12-55)

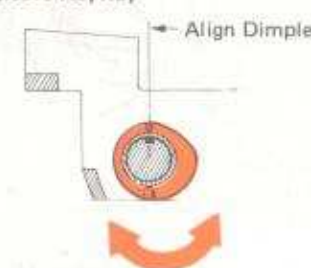


277 Right Platen Knob (12-55)



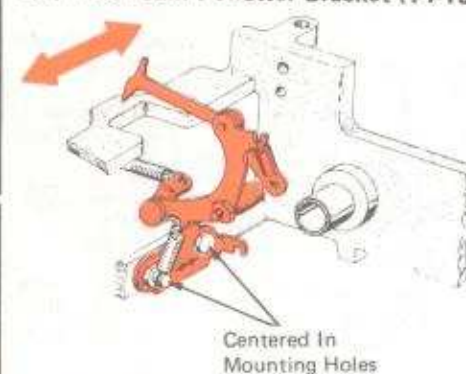
278 Ribbon Lift Cam (14-117)

Align Slot To
Front Edge Of
Print Sleeve Keyway



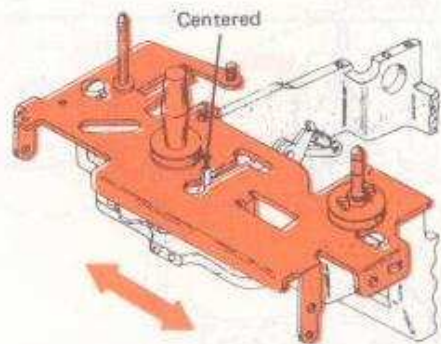
44, 54

279 Feed Cam Follower Bracket (14-158)

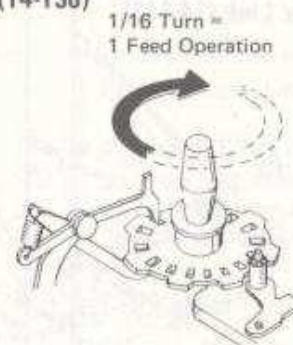


(Rear View)

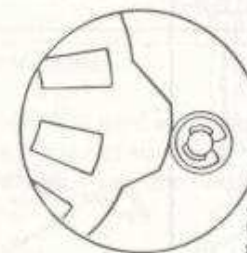
280 Ribbon Plate (14-44)



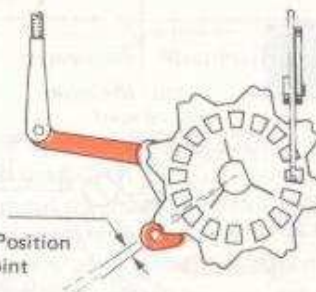
281 Ribbon Feed Cam Follower Stud (14-136)



(Level 1 - Top View)

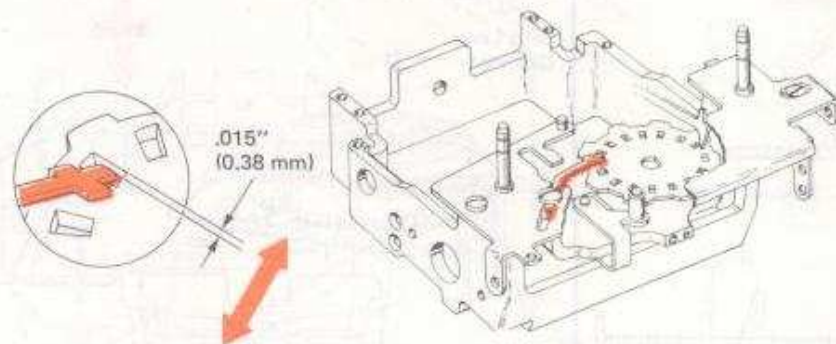


.005"-.015"
(0.13-0.38 mm)
Beyond Detent Position
Cam On High Point

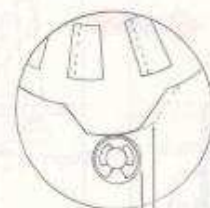


(Level 2 - Top View)

282 Feed And Lift Wheel Detent Spring (14-48)

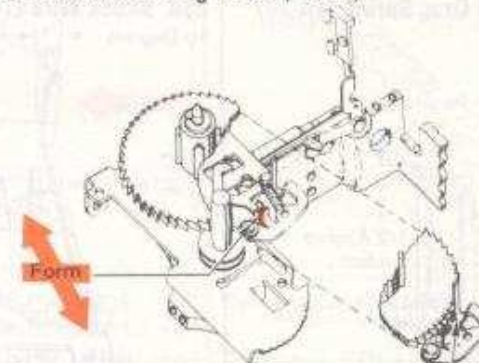


(Level 1 Only)



.015"
(0.38 mm)

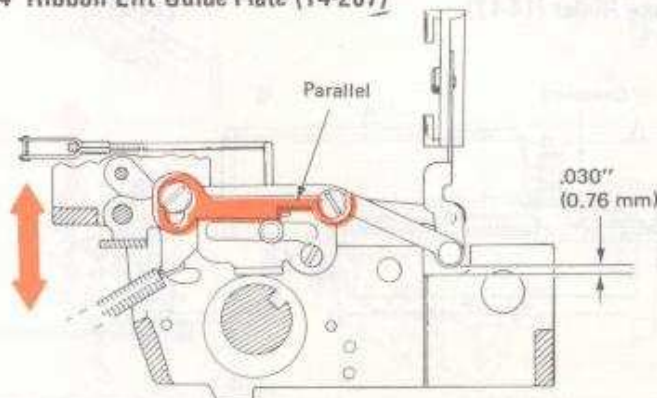
283 Brake Actuating Lever (14-30)



(Level 1 Only)

Just Bottoms At Rest

284 Ribbon Lift Guide Plate (14-207)



HHHHHH
HHHHHH

A

LIFT GUIDE
PLATE PARALLEL
TO SLOT IN CAM
FOLLOWER

HHHHHH
HHHHHH

B

LIFT GUIDE
PLATE OUT OF
PARALLEL TOO
HIGH AT THE
REAR

HHHHHH
HHHHHH

C

LIFT GUIDE
PLATE OUT OF
PARALLEL TOO
HIGH AT THE
FRONT

Approximately .030"
(0.76 mm)

HHHHHH
HHHHHH
NO CHARACTER OVERLAP
HHHHHH
HHHHHH

D

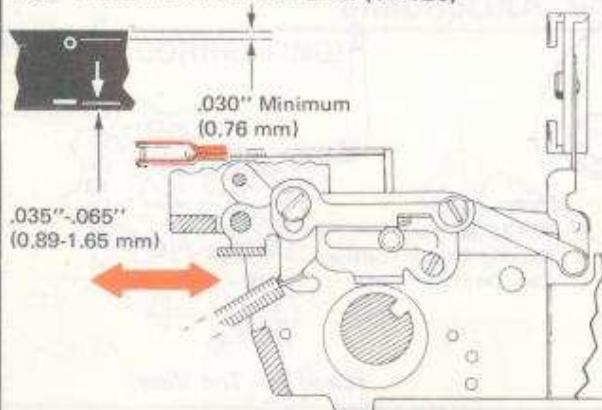
LIFT GUIDE
PLATE PARALLEL
TO SLOT IN CAM
FOLLOWER

E

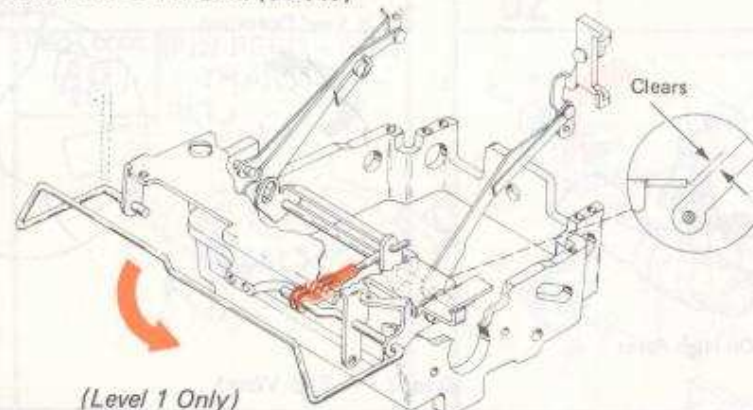
LIFT GUIDE
PLATE PARALLEL
TO SLOT IN CAM
FOLLOWER

Approximately .050"
(1.27 mm)

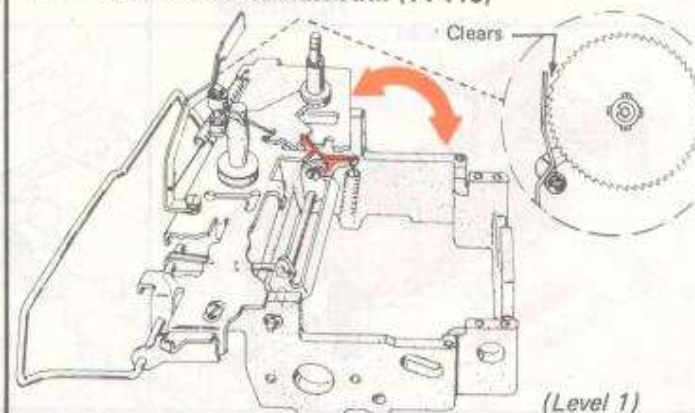
285 Ribbon Lift Control Link (14-128)



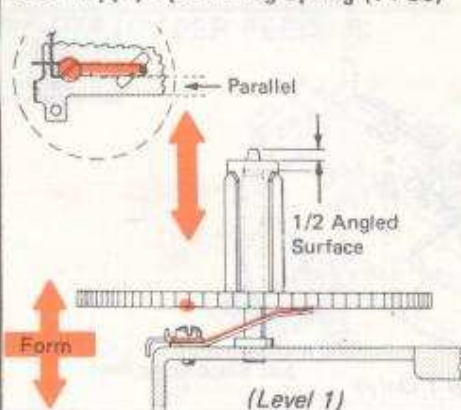
286 Load Lever Link (14-147)



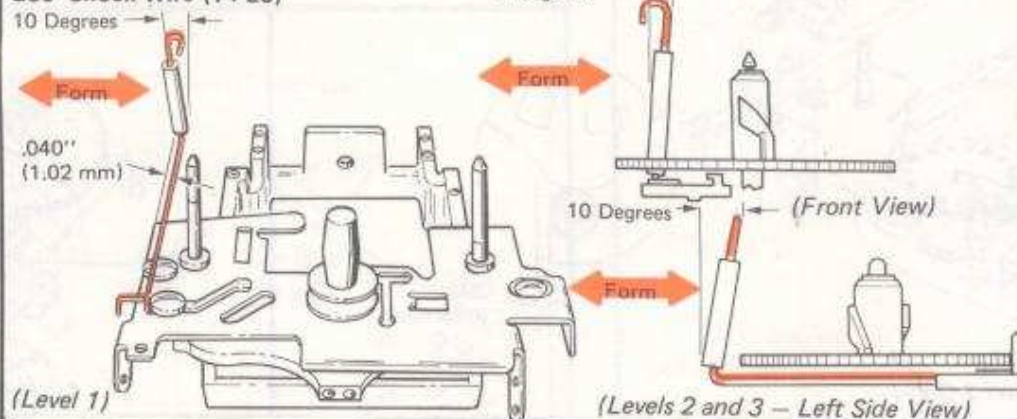
287 Pressure Roller Release Arm (14-116)



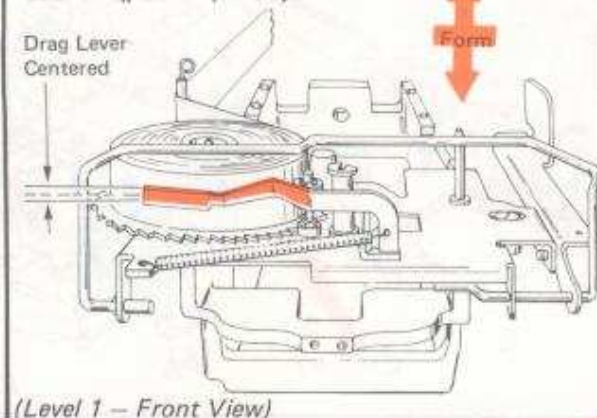
288 Supply Spool Drag Spring (14-30)



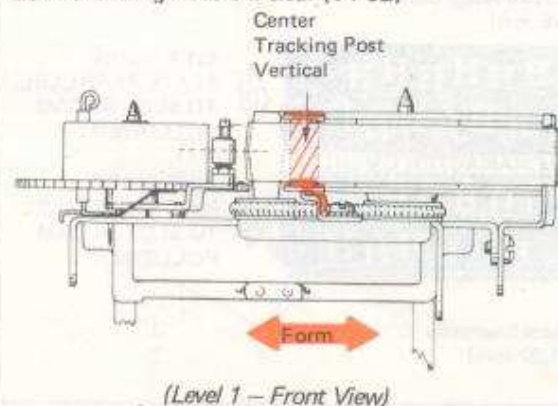
289 Shock Wire (14-26)



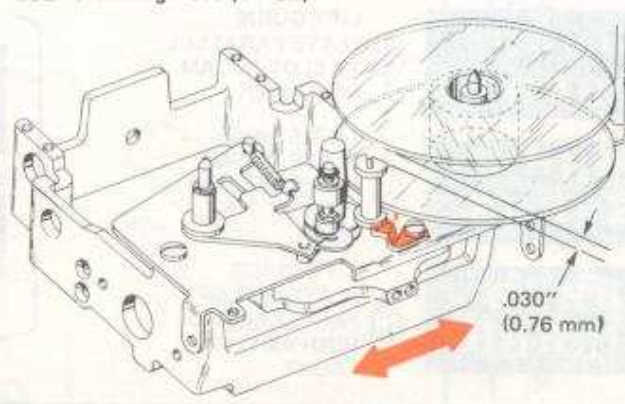
290 Drag Lever (14-80)



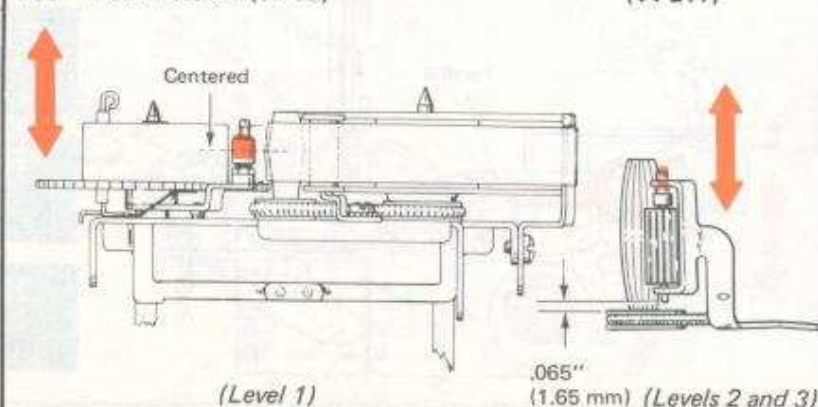
291 Tracking Post Vertical (14-82)



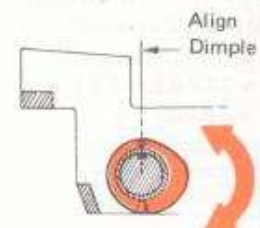
292 Tracking Post (14-82)



293 Pressure Roller (14-12)

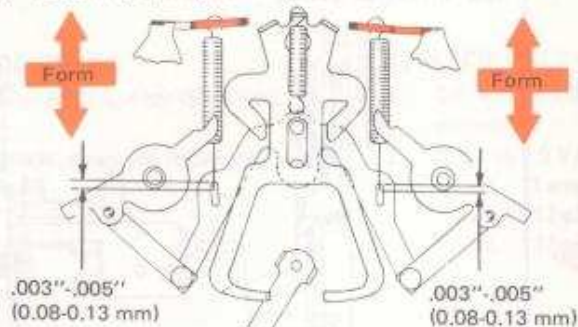


294 Ribbon Lift Cam (13-58)



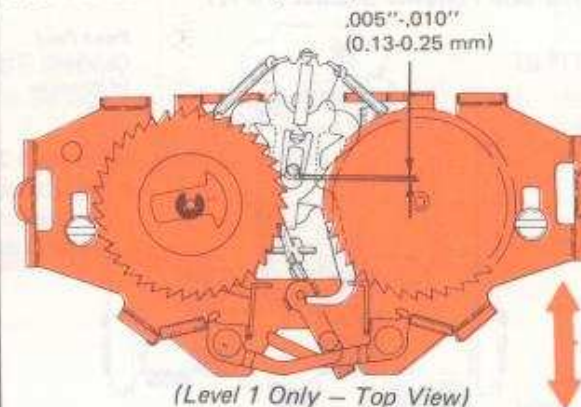
44, 54

295 Centering Spring (13-38)



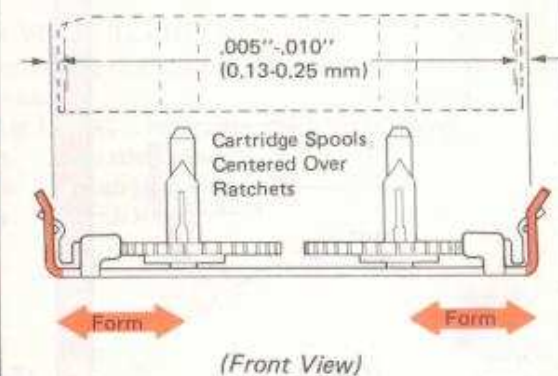
(Level 1 Only - Top View)

296 Ribbon Feed Plate (13-38)



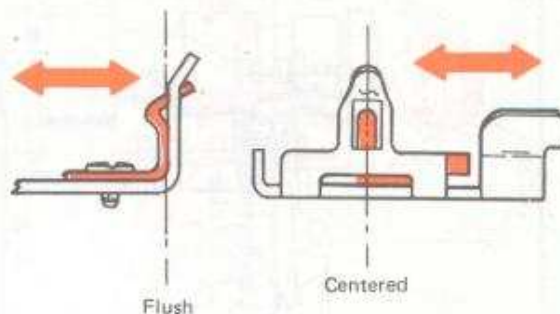
(Level 1 Only - Top View)

297 Cartridge Guide Lugs (13-38)



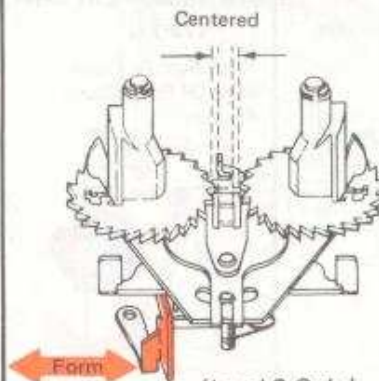
(Front View)

298 Cartridge Retaining Springs (13-76)



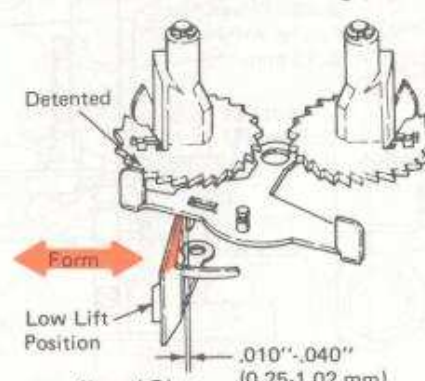
(Level 2)

299 Ribbon Lift Lever (13-78)



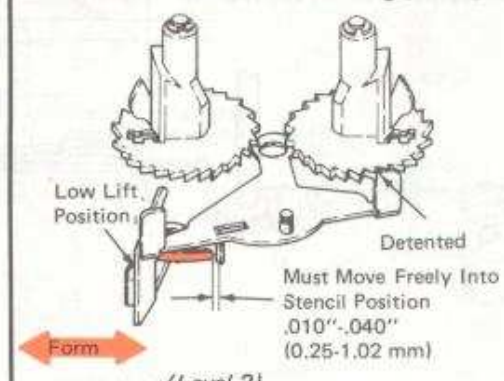
(Level 2 Only)

300 Ribbon Lift Lever Rear Lug (13-78)



(Level 2)

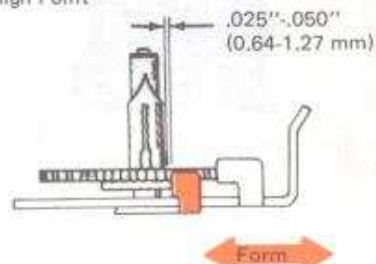
301 Ribbon Lift Lever Front Lug (13-78)



(Level 2)

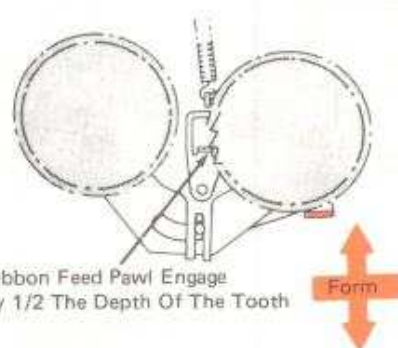
302 Ratchet Detent Lugs (13-74)

Feed Cam On High Point



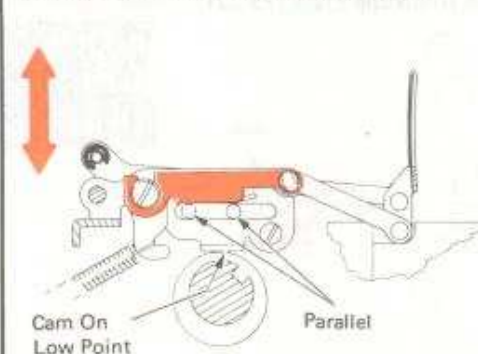
Form

303 Ratchet Detent Lug (13-74)

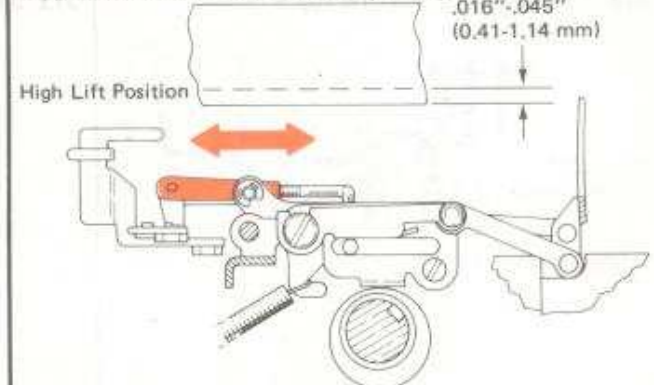


Form

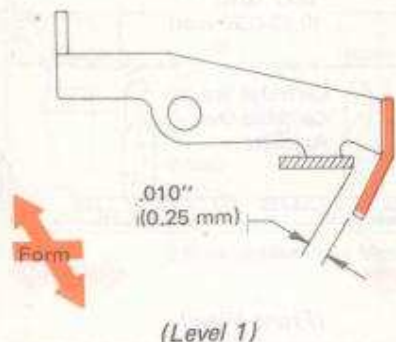
304 Ribbon Lift Guide Plate (13-37)



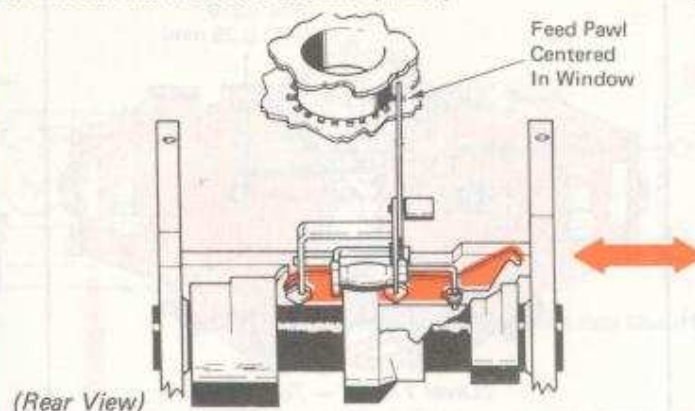
305 Ribbon Lift Control Link (13-62)



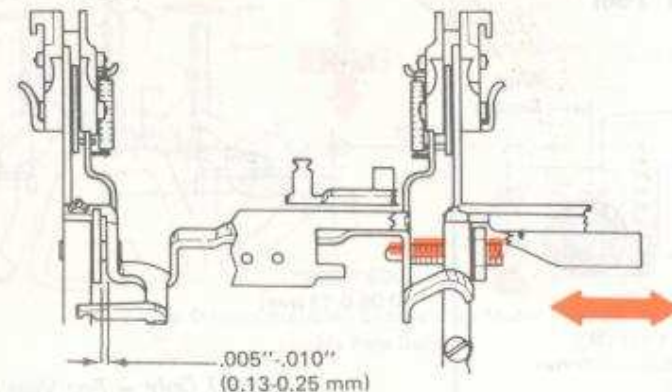
306 Stencil Lockout (13-65)



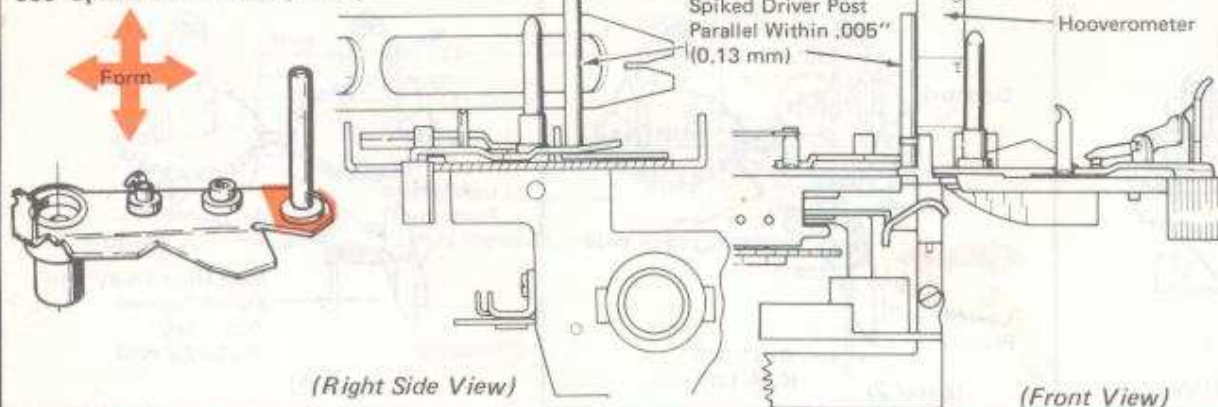
307 Feed Cam Follower Bracket (15-12)



308 Lift Arm (15-6)

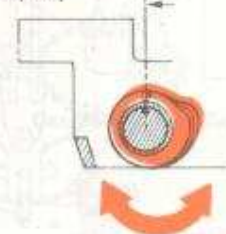


309 Spiked Driver Post (15-61)

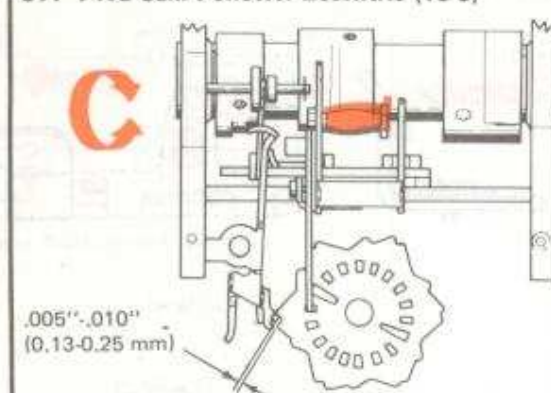


310 Ribbon Lift Cam (15-17)

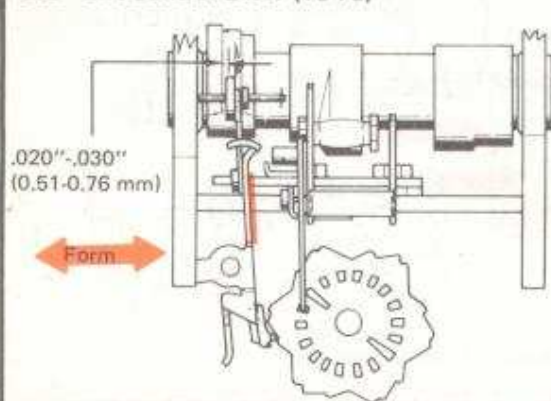
Align Slot To Front
Edge Of Print Sleeve
Keyway



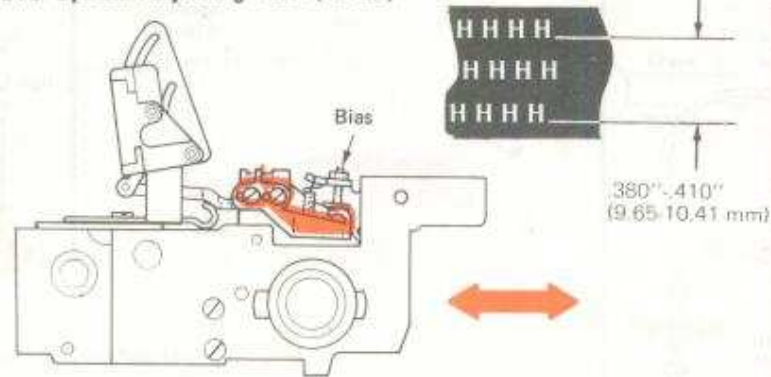
311 Feed Cam Follower Eccentric (15-8)



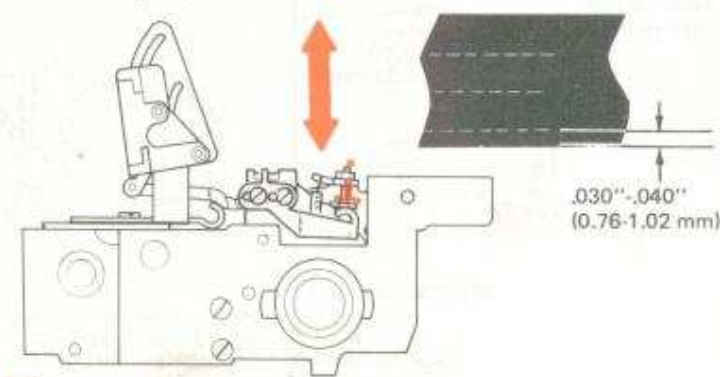
312 Lift Control Lever (15-76)

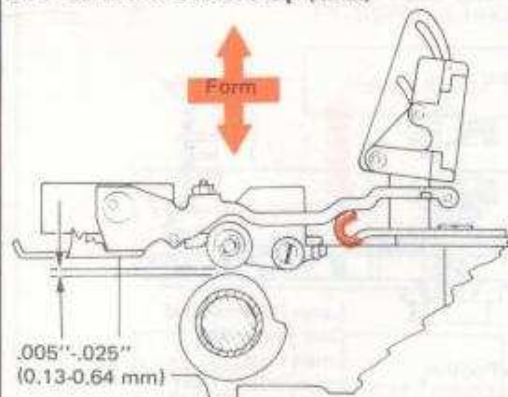
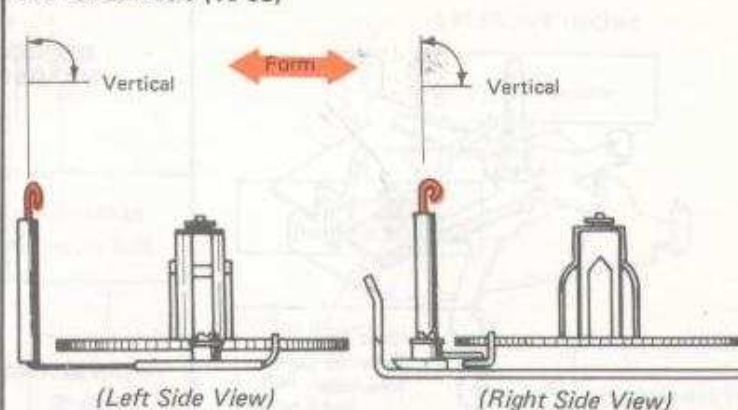
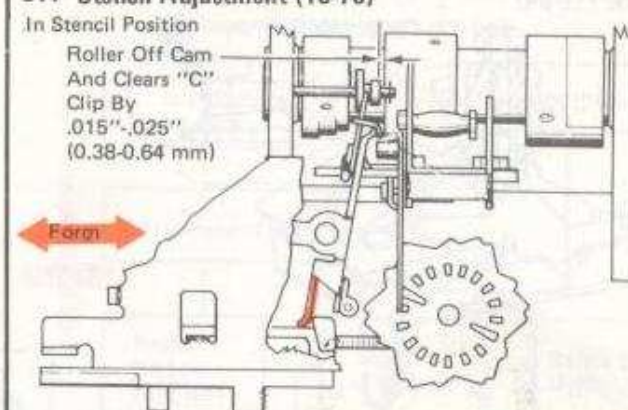
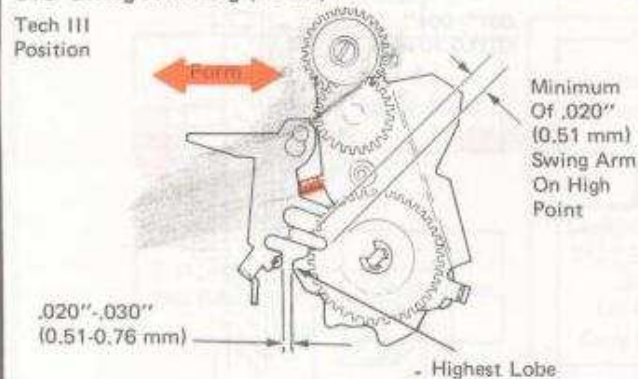
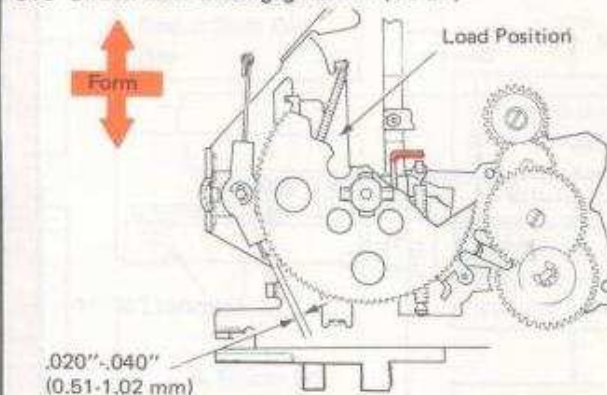
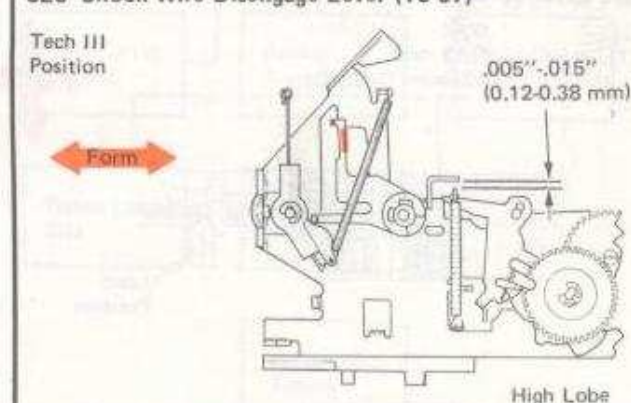
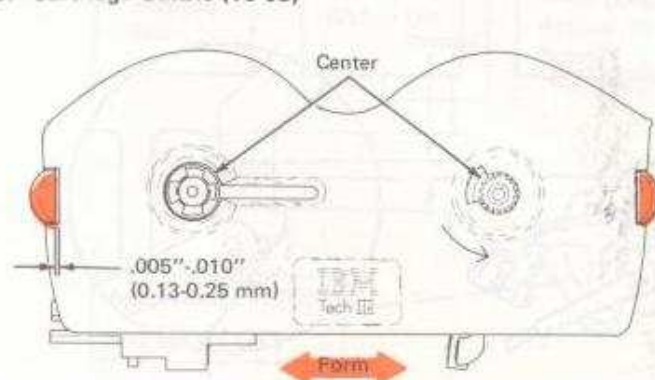
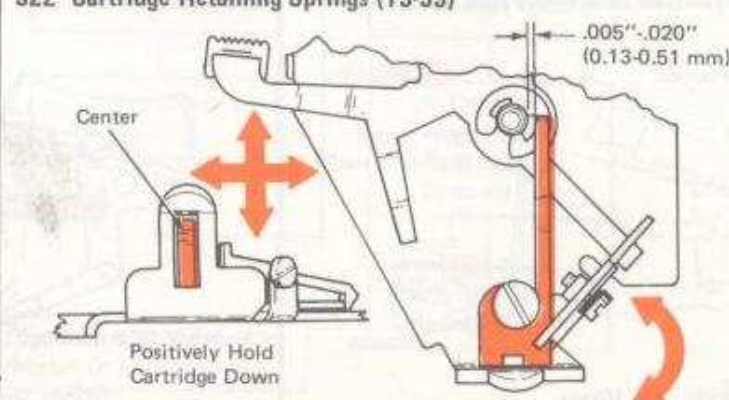
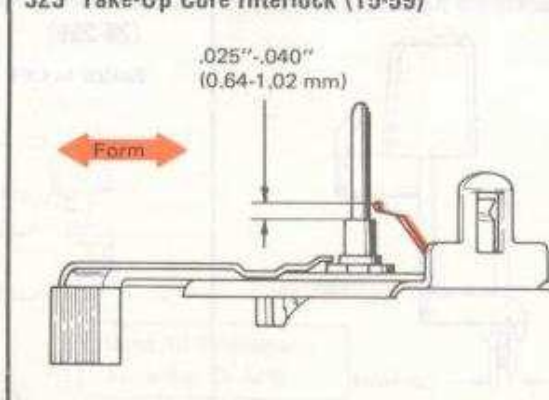


313 Spread Adjusting Plate (15-22)

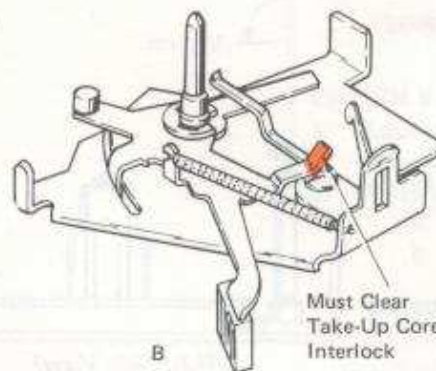
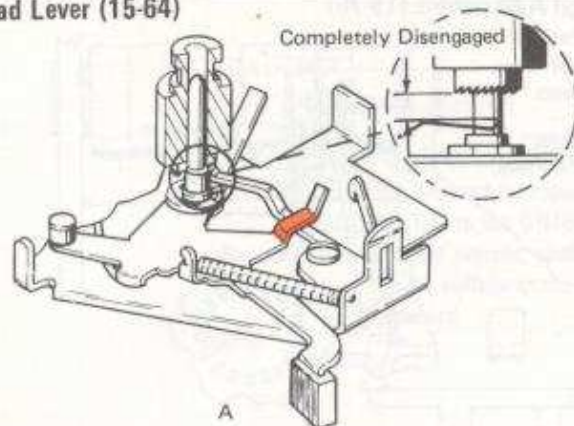


314 Lift Height (15-30)



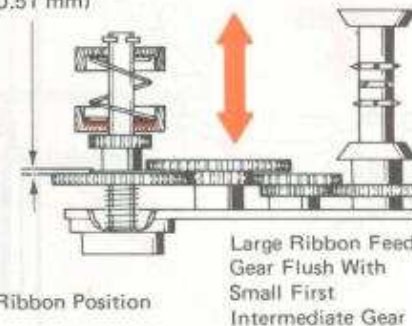
315 Lift Arm Lower Stop (15-2)**316 Shock Wire (15-83)****317 Stencil Adjustment (15-76)****318 Swing Arm Lug (15-62)****319 Shock Wire Disengage Lever (15-87)****320 Shock Wire Disengage Lever (15-87)****321 Cartridge Guides (15-86)****322 Cartridge Retaining Springs (15-59)****323 Take-Up Core Interlock (15-59)**

324 Load Lever (15-64)



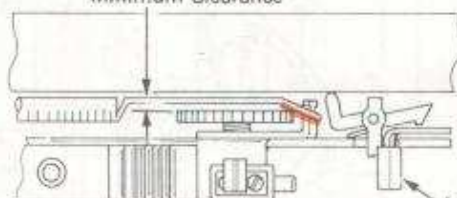
325 Mode Button Grip Clip Position (15-93)

.005"-.020"
(0.13-0.51 mm)

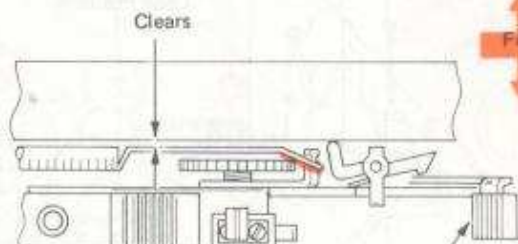


326 Load Lever Spring (15-85)

.005"
(0.13 mm)
Minimum Clearance



Load
Position

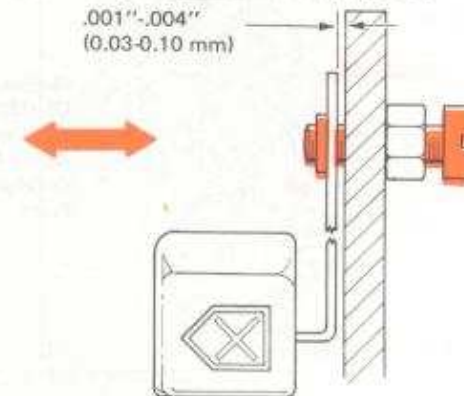


Operated Position

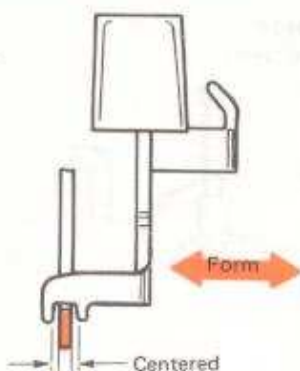


327 Correcting Keylever Side Play (26-95)

.001"-.004"
(0.03-0.10 mm)



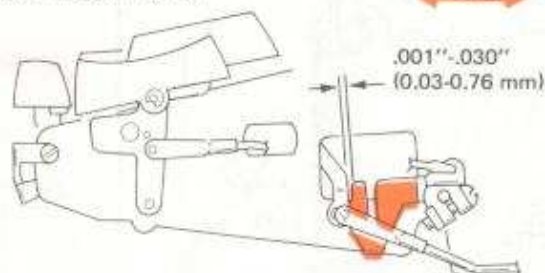
328 Backspace Keylever (01-101)



Centered

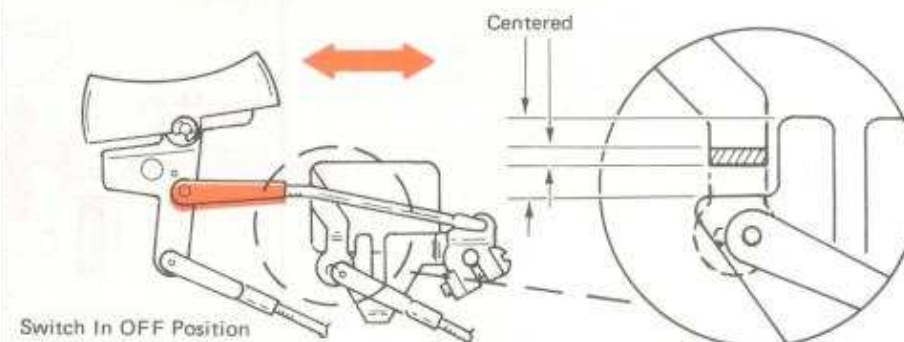
329 Correcting Keybutton Interlock Front To Rear (26-259)

Switch In OFF Position



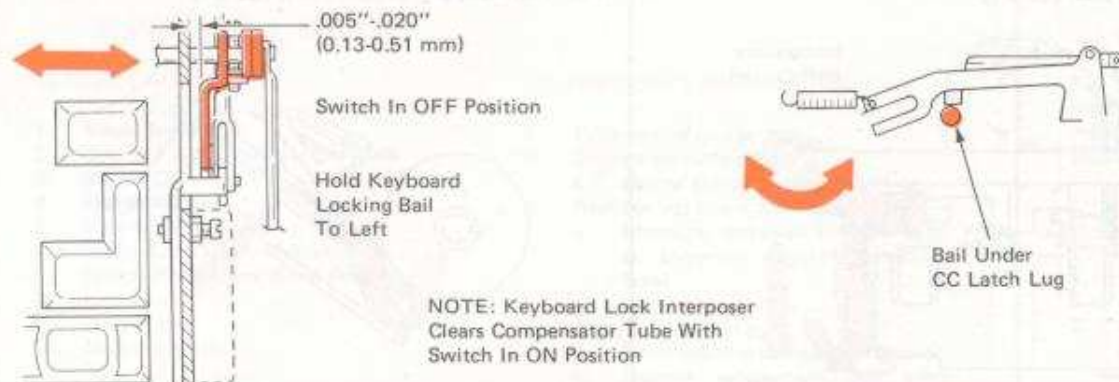
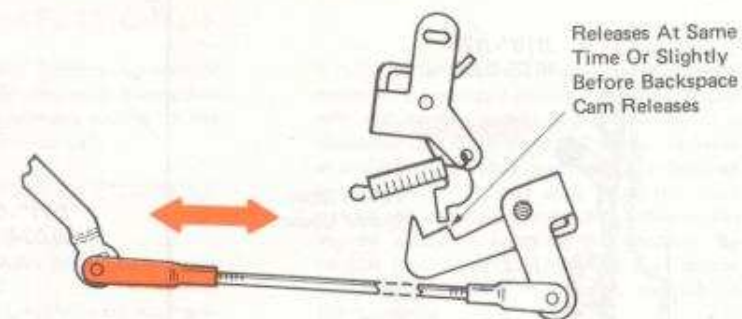
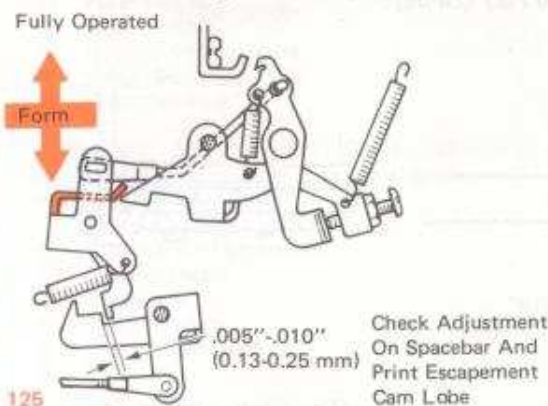
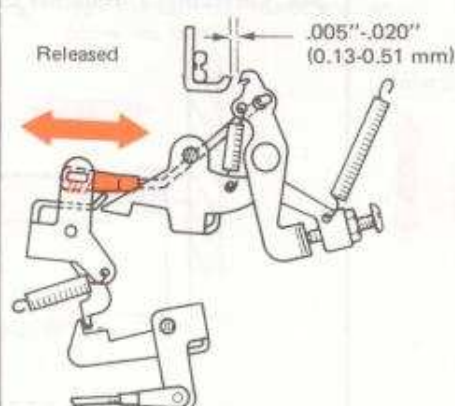
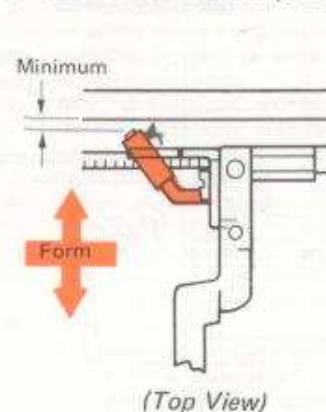
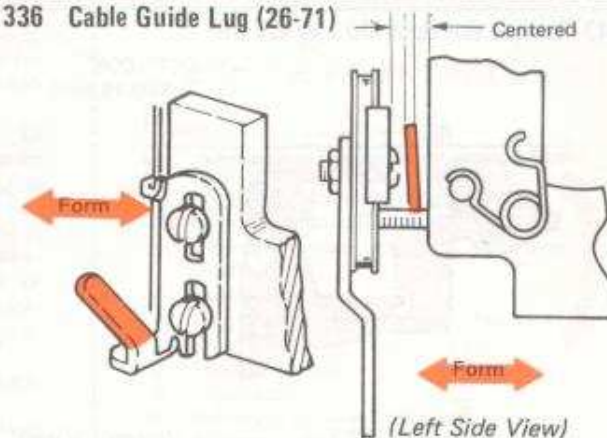
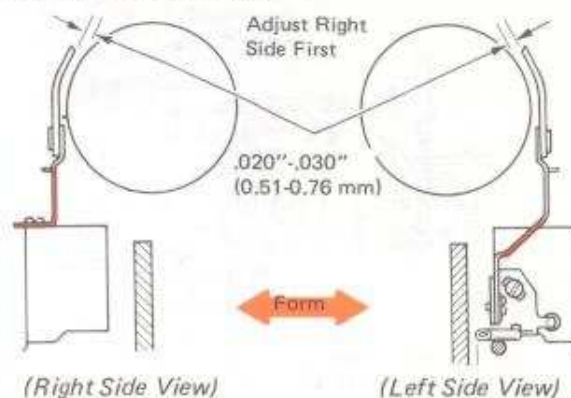
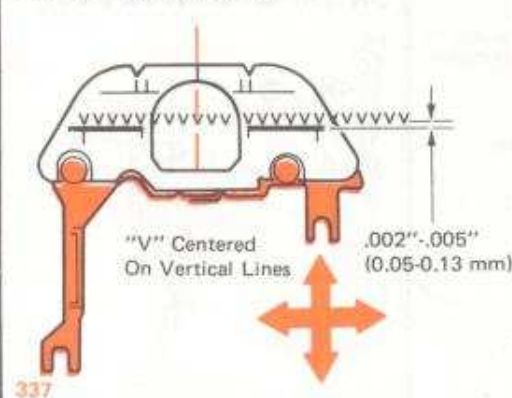
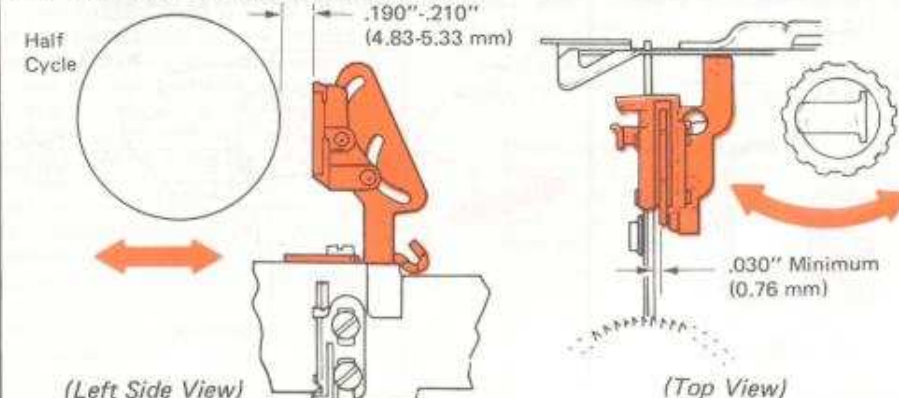
(Right Side View)

330 Lockout Bail Link (21-546)



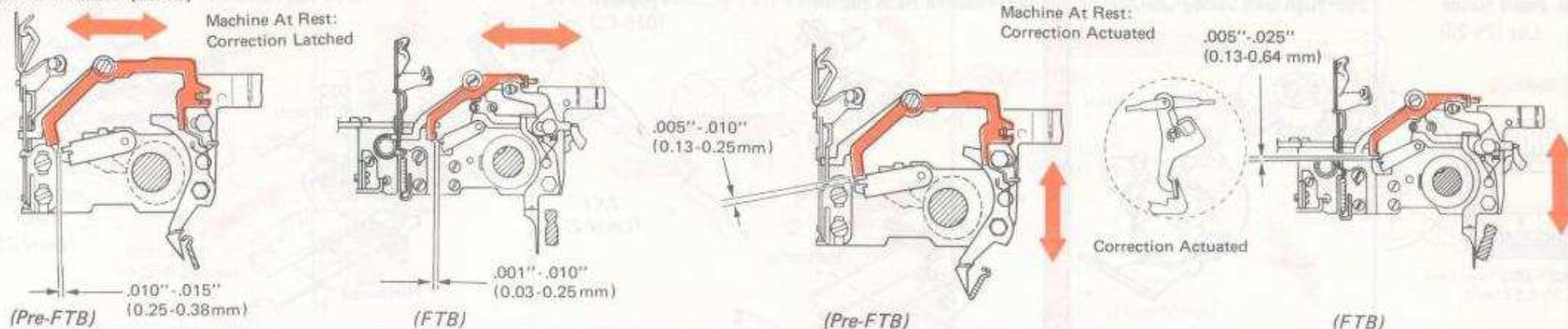
Switch In OFF Position

(Right Side View)

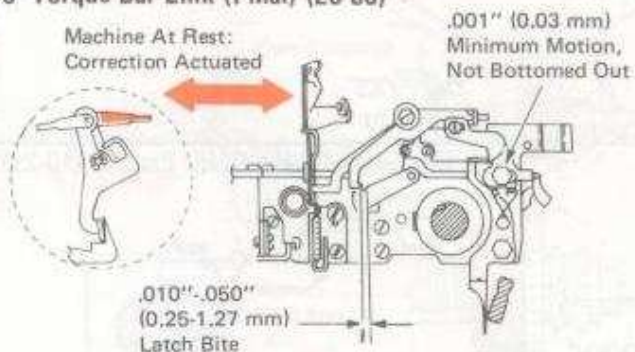
331 Correcting Keybutton Interlock And Lockout Bail (26-259)**332 Correcting Keylever Link (26-90)****333 Mode Actuating Bellcrank (26-80)****334 Trigger Link (26-76)****335 Cable Guide Bracket (26-59)****336 Cable Guide Lug (26-71)****337 Cardholder (26-41)****338 Cardholder (26-41)****339 Left-Hand Ribbon Lift Guide (26-72)**

340 Tape Lift Assembly Front To Rear (26-71) $.010''-.020''$ (0.25-0.51 mm) Tape Supply Cradle Loose W. T. $.020''-.030''$ (0.51-0.76 mm)	341 Tape Lift Assembly Vertical (26-71) Underscore Half Cycled $.001''-.005''$ (0.03-0.13 mm) 340	342 Tape Supply Cradle Fork (26-34) Centered $.010''-.025''$ (0.25-0.64 mm)
343 Torque Bar Back-Up Lug (26-55) $.001''-.006''$ (0.03-0.15 mm) (Pre-FTB) (Bottom View)	(26-132) $.065''-.070''$ (1.65-1.78 mm) (FTB)	344 Correcting Torque Bar End Play (26-98) $.010''-.025''$ (0.25-0.64 mm) $.003''-.010''$ (0.08-0.25 mm) (Pre-FTB) (Top View - World Trade)
345 Torque Bar Stop Bracket (26-89) $.010''-.015''$ (0.25-0.38 mm) (Pre-FTB)	346 Torque Bar Link (Preliminary) (26-86) Correction Mechanism At Rest; Latched Condition Torque Bar Vertical	347 Lift Actuating Arm (26-62) Full Travel Front To Rear $.001''-.005''$ (0.03-0.13 mm) $.002''$ (0.05 mm) (Pre-FTB) (FTB)

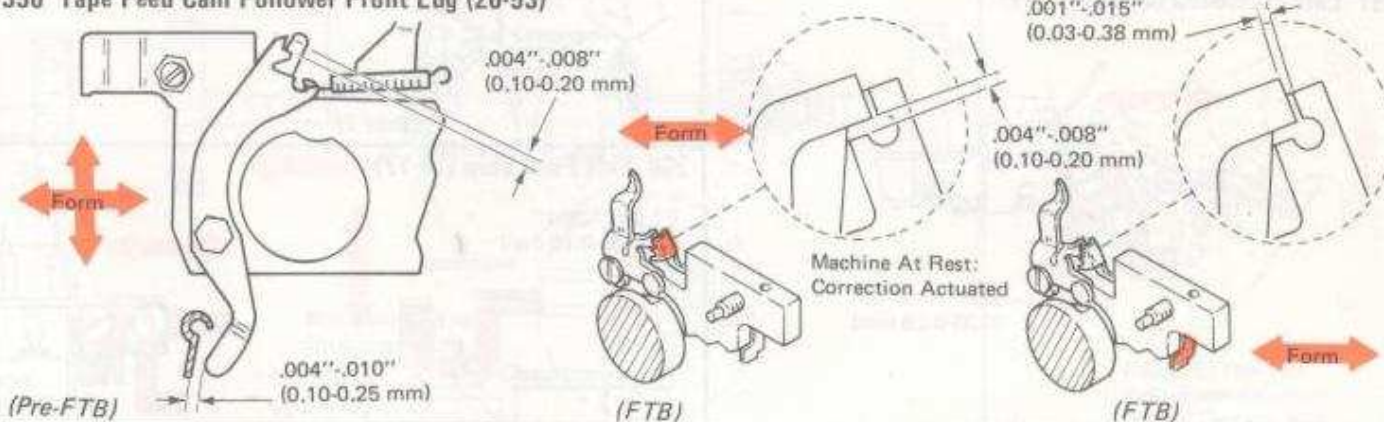
348 Lift Arm Latch (26-66)



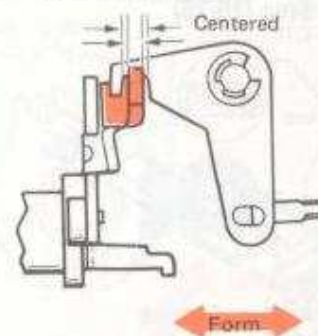
349 Torque Bar Link (Final) (26-86)



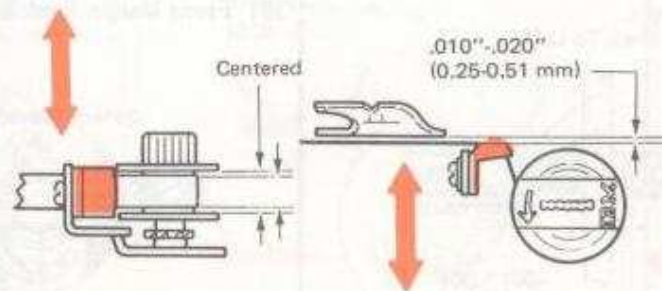
350 Tape Feed Cam Follower Front Lug (26-53)



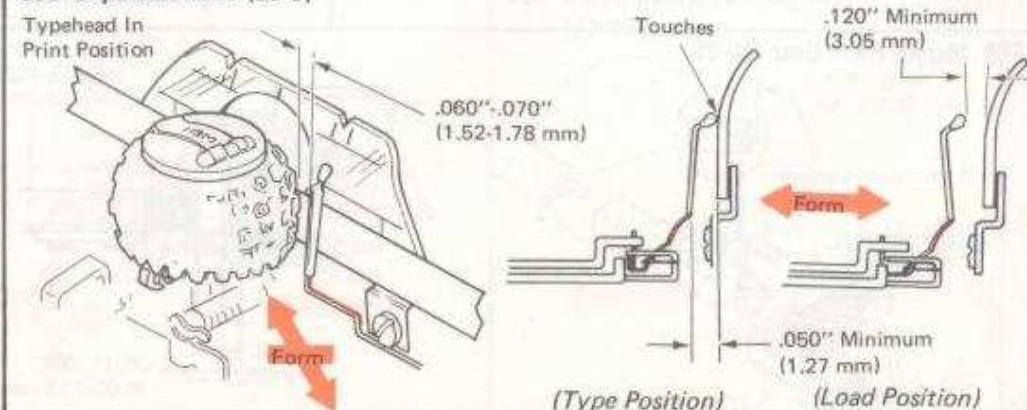
351 Tape Feed Cam Follower Rear Lug (26-45)



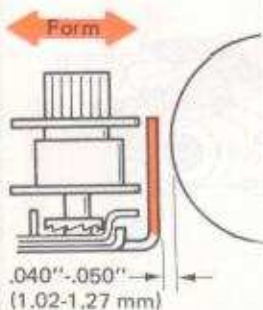
352 Guide (26-13)



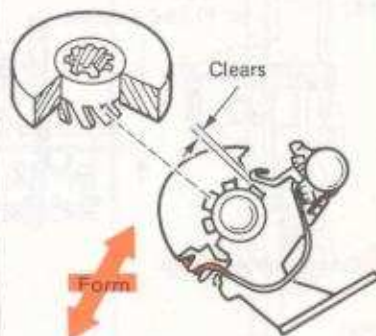
353 Separator Wire (26-9)



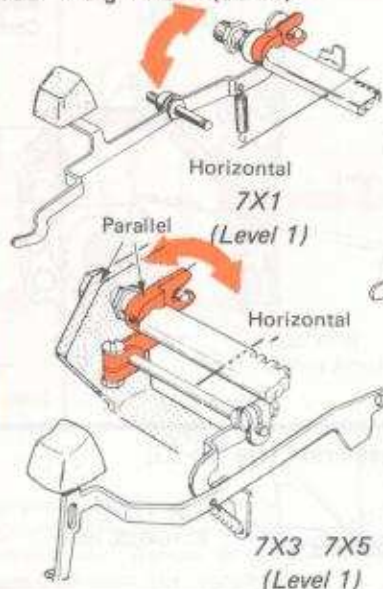
354 Paper Guide Lug (26-20)



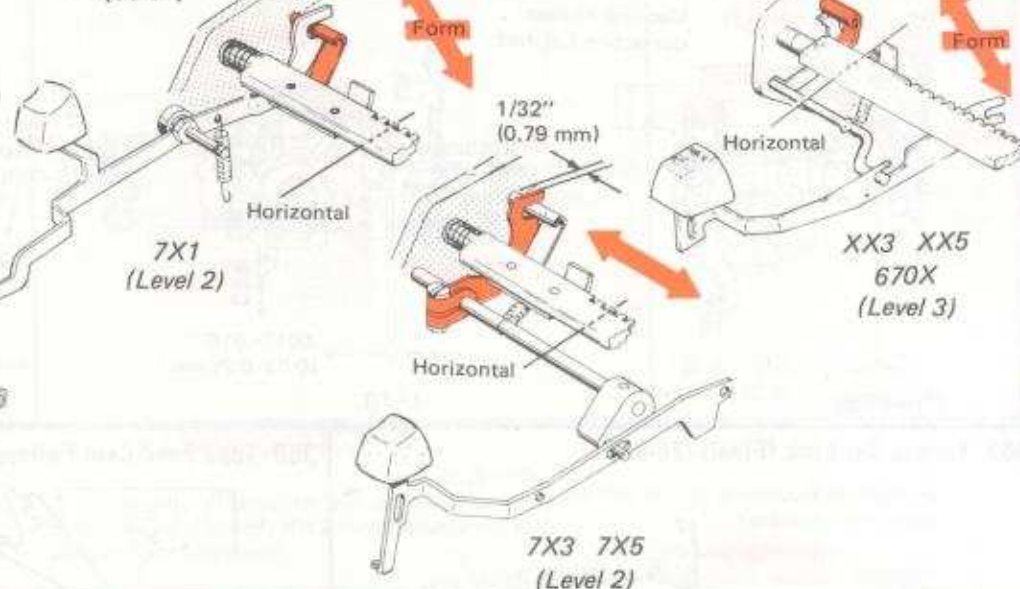
355 High Bias Spring (26-34)



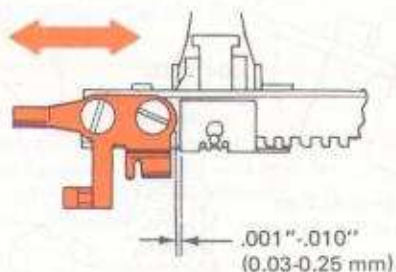
356 Margin Rack (09-19)



(09-61)

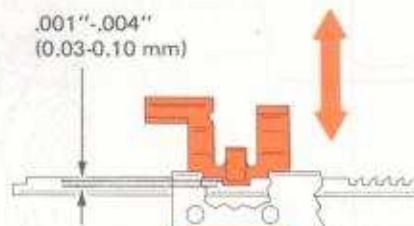


357 Left Final Stop (09-61)

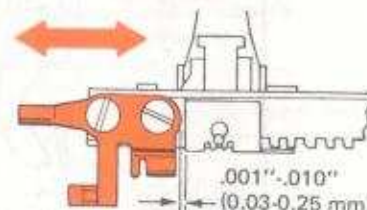


(NRB/S)

358 Left Final Stop (10-17)



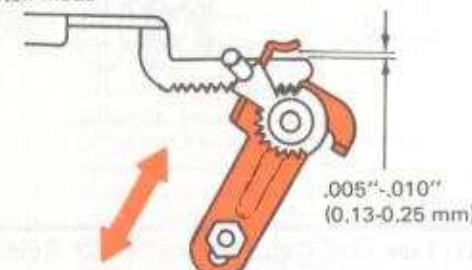
(Top View)



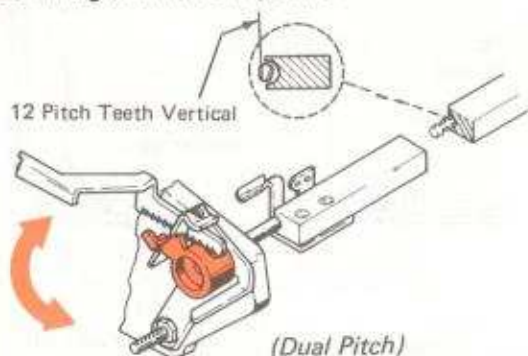
(Bottom View)

359 Margin Pitch Link Guide Bracket (10-25)

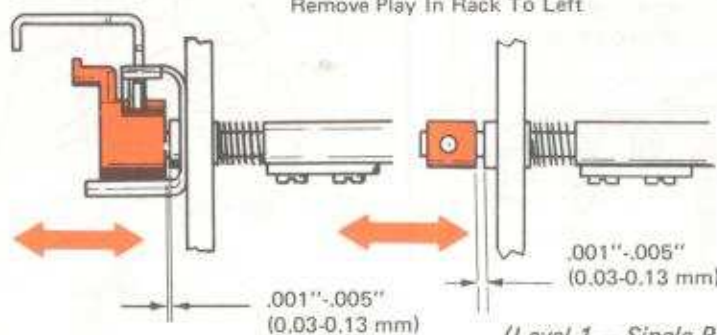
12-Pitch Mode



360 Margin Rack Gear (10-29)

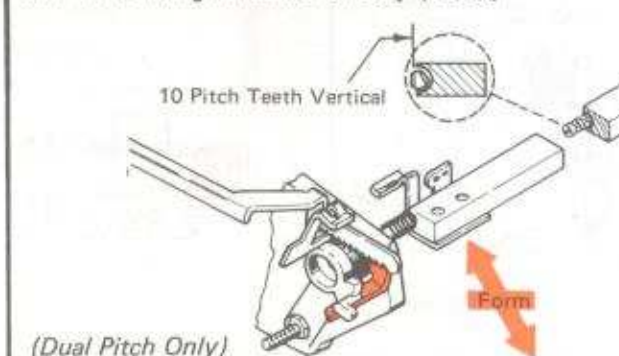


Hold Rail To Right.
Remove Play In Rack To Left

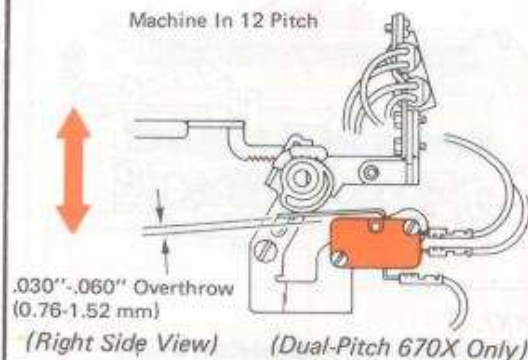


(Level 1 - Single Pitch)

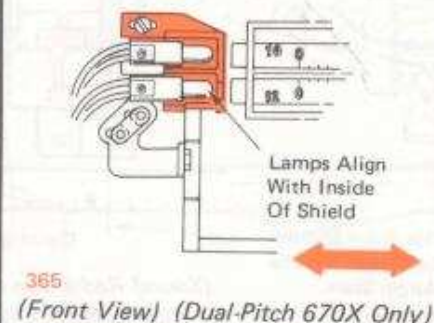
361 Front Margin Rack Gear Stop (10-25)



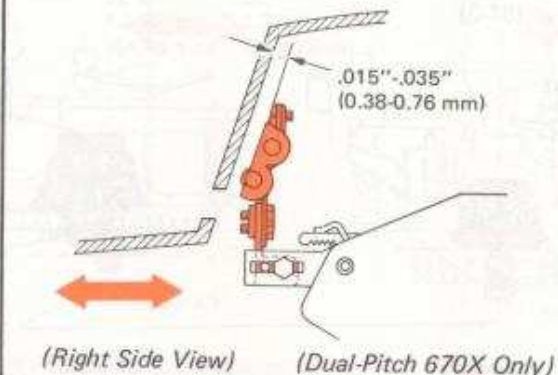
362 Lighted Margin Switch (10-112)



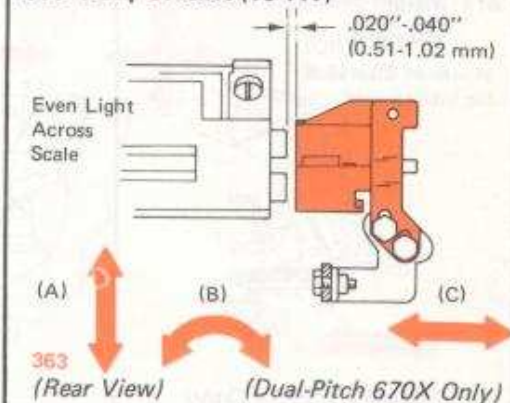
363 Lamp Shield (10-117)



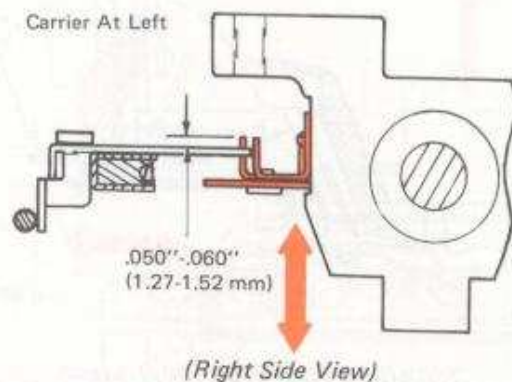
364 Lamp Mounting Bracket (10-117)



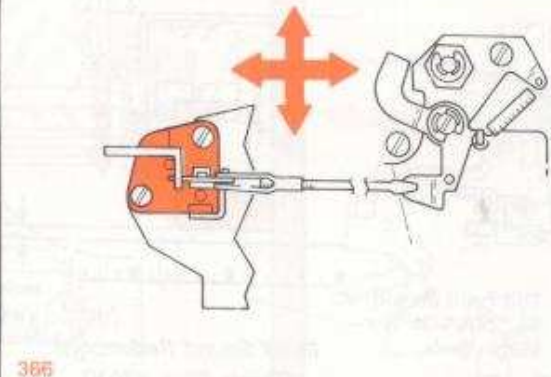
365 Lamp Bracket (10-117)



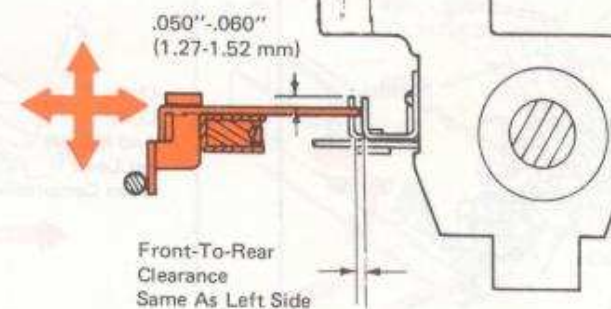
366 Linelock Bracket (09-5)



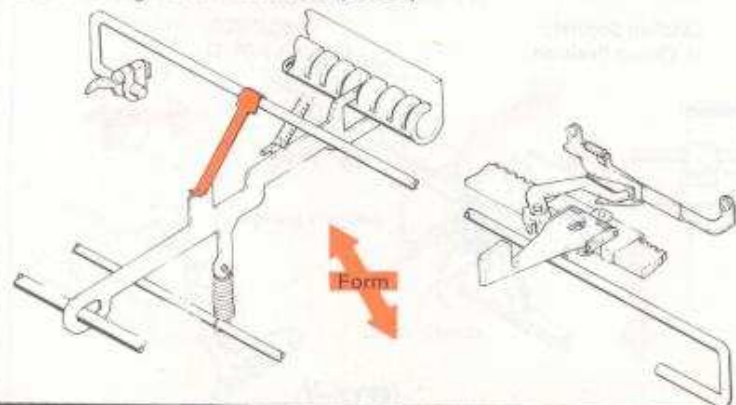
367 Margin Rack (09-71)



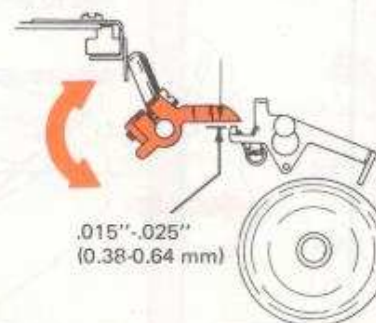
Carrier At Right



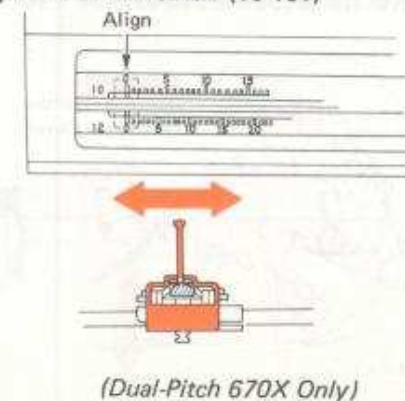
368 Bellringer Bail Extension (09-80)



369 Bellclapper Bellcrank (09-76)



370 Margin Set Lever Pointer (10-101)



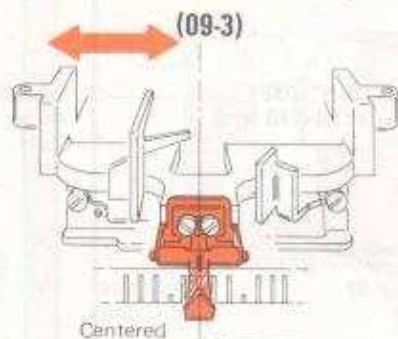
371 Margin Set Lever Pointer (10-100)

Minimum Clearance
No Interference



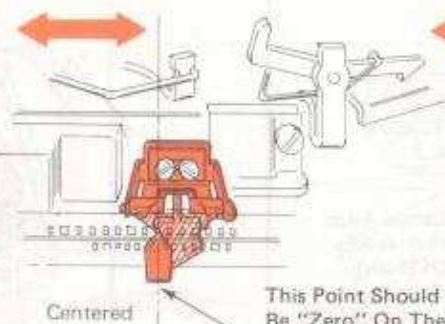
(Dual-Pitch 670X Only)

372 Carrier Pointer Left To Right (09-3)



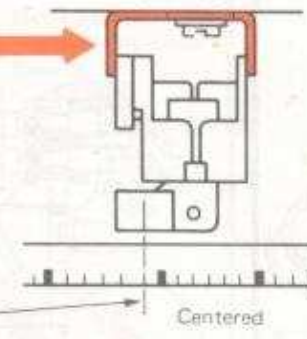
(Level 1)

(10-40)



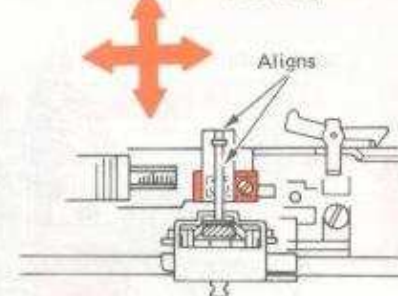
(Level 2)

(30-18)



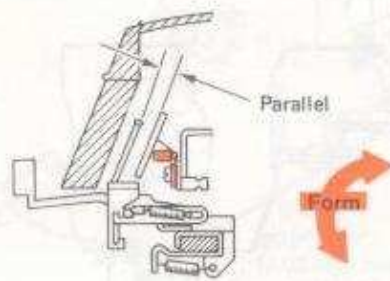
(Sound Reduction 8XX)
(Single-Pitch 670X)

(10-108)



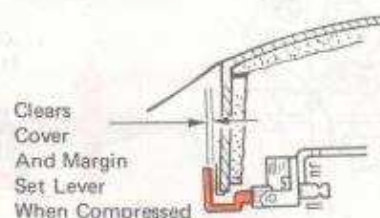
(Dual-Pitch 670X)

373 Carrier Pointer Parallel (10-108)



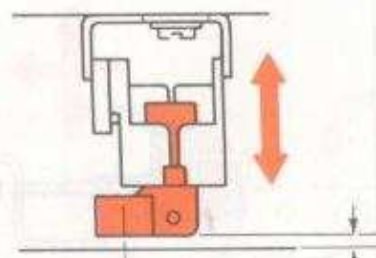
374 (Dual-Pitch 670X Only)

374 Carrier Pointer Front To Rear (10-37)



This Point Should Be "Zero" On The Margin Scale.
(Level 2)

(30-19)



(8XX Sound Reduction)
(Single-Pitch 670X)

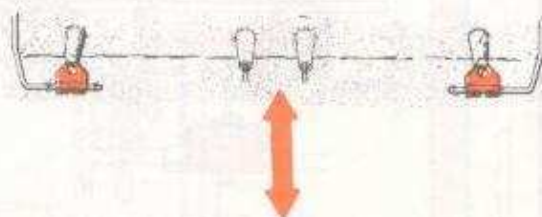
(10-107)



(Dual-Pitch 670X Only)

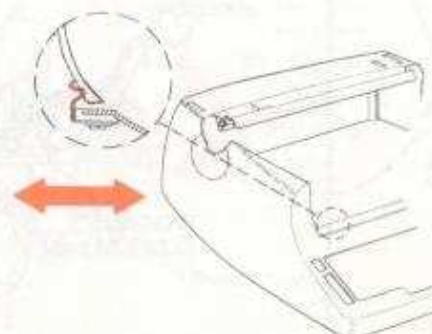
375 Top Cover Hinge (04-04) (05-04)

Top Cover
Matches Contour
Of Center Cover



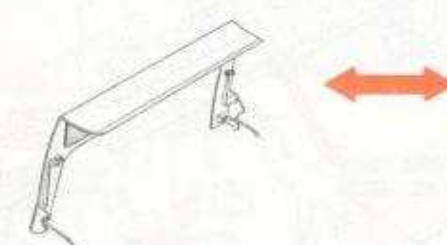
376 Top Cover Latches (04-83)

Latched Securely
In Closed Position



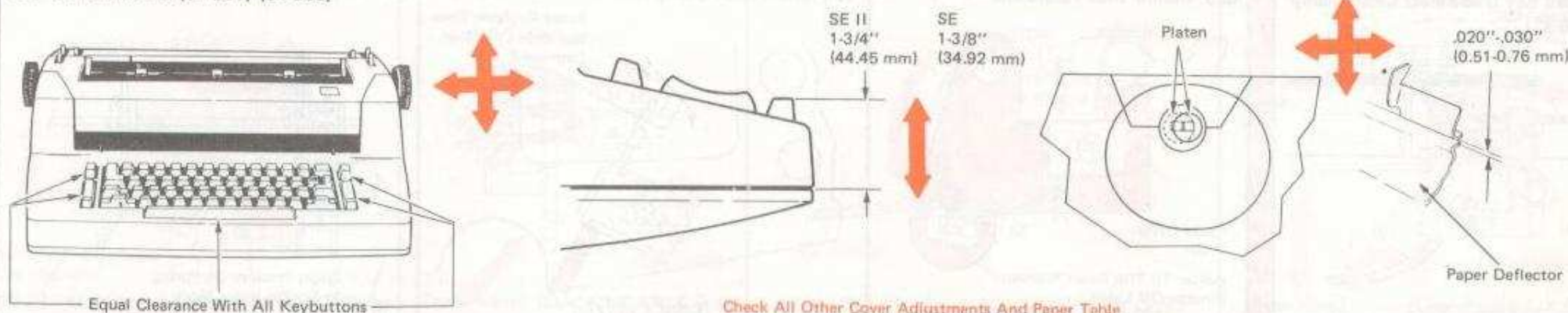
(Level 1)

(05-02)



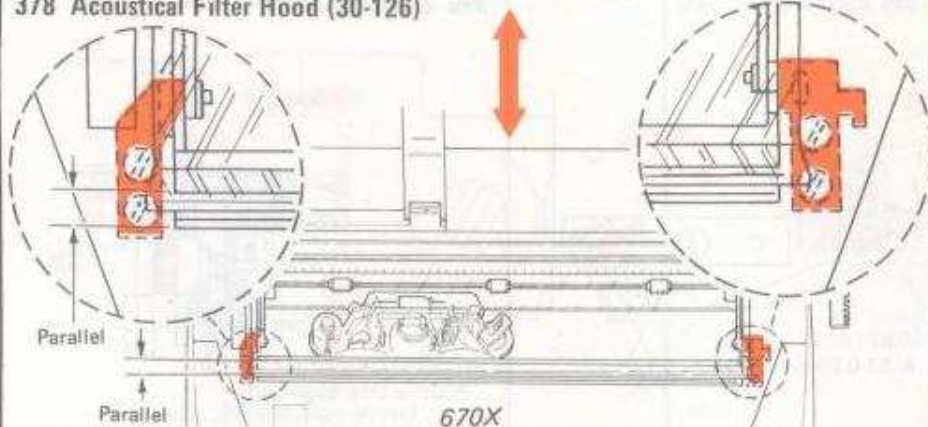
(Level 2)

377 Cover Mounts (04-251) (04-230)

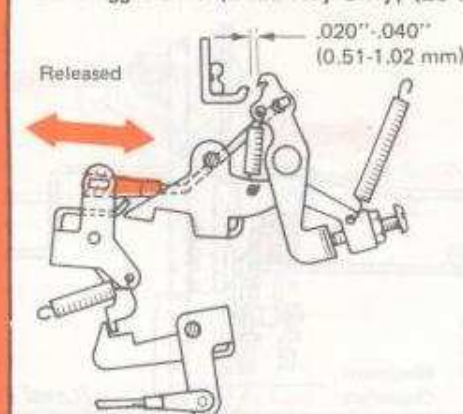


Check All Other Cover Adjustments And Paper Table

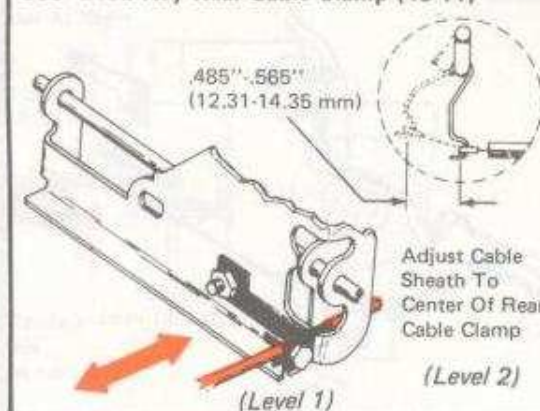
378 Acoustical Filter Hood (30-126)



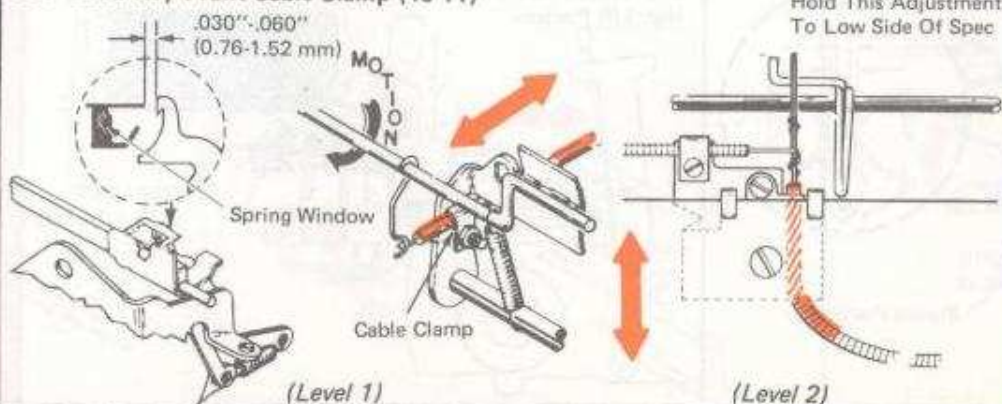
379 Trigger Link (Dead Key Only) (26-76)



380 Dead Key Rear Cable Clamp (40-11)



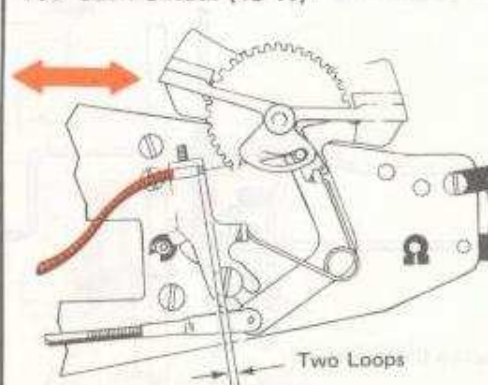
381 Dead Key Front Cable Clamp (40-11)



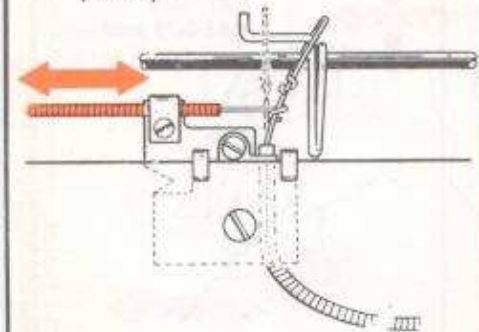
382 Dead Key Disconnect Indicator (40-29)



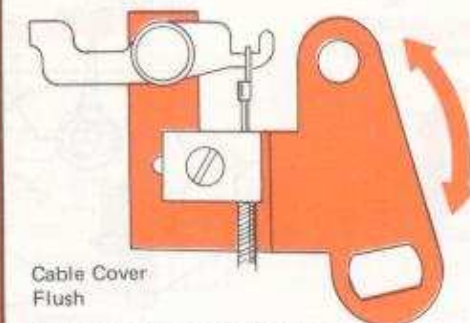
383 Cable Sheath (40-41)



384 Dead Key Disconnect Cable Clamp (40-41)



385 Double Index Bellcrank

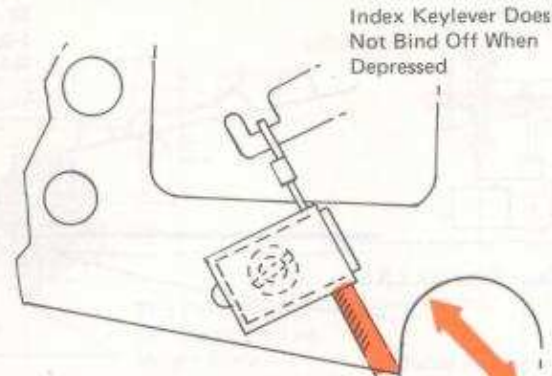


Cable Cover
Flush

Adjust To Trip Index Without
Binding Off Latch

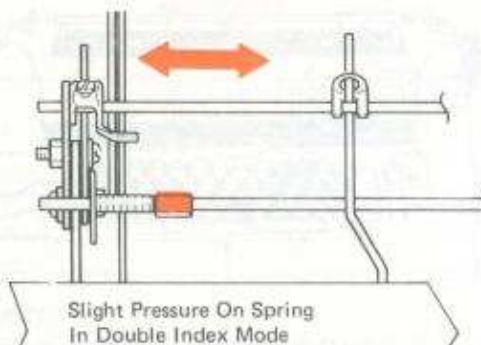
(Level 1 Only)

386 Side Frame Clamp

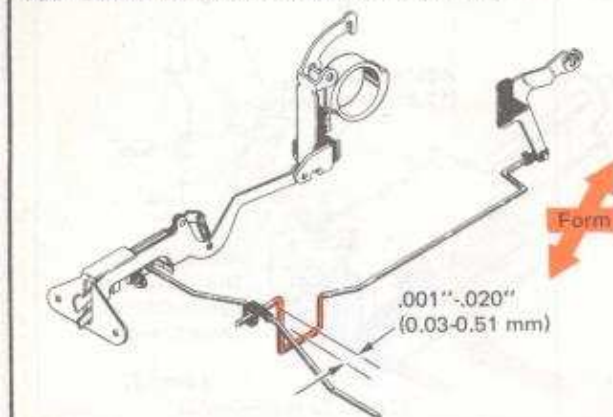


(Level 1 Only)

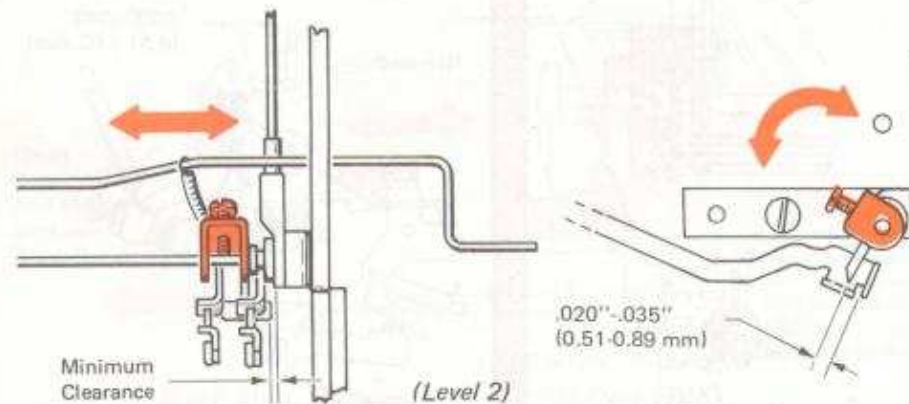
387 Trip Shaft Clip (20-33)



388 Carrier Return Interlock Link (20-35)

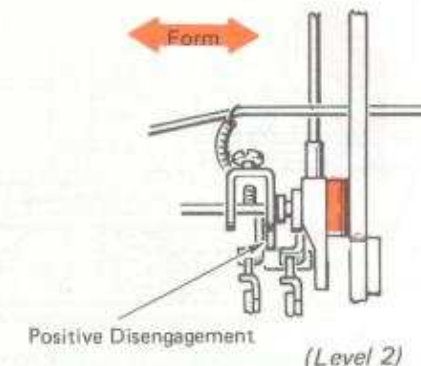


389 Tripper (20-39)

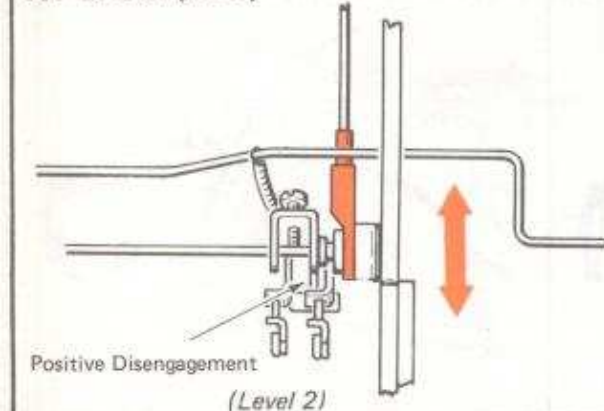


(Level 2)

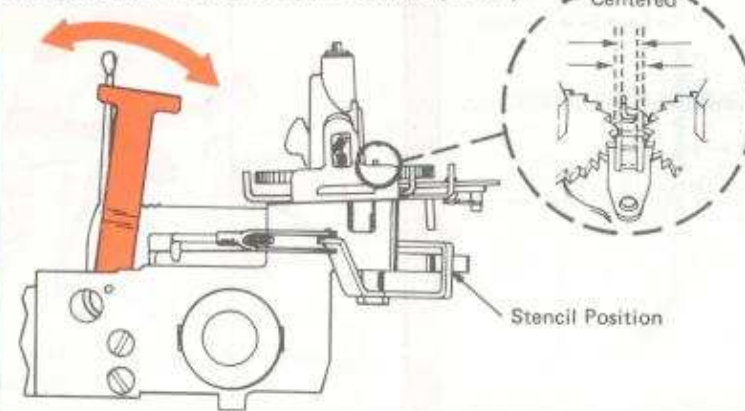
390 Locator (20-45)



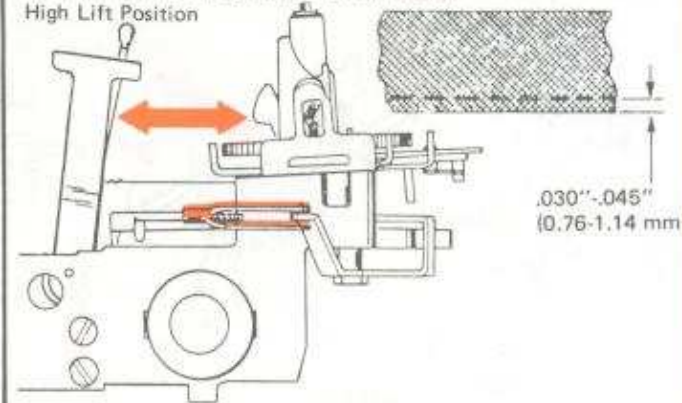
391 Locator (20-44)

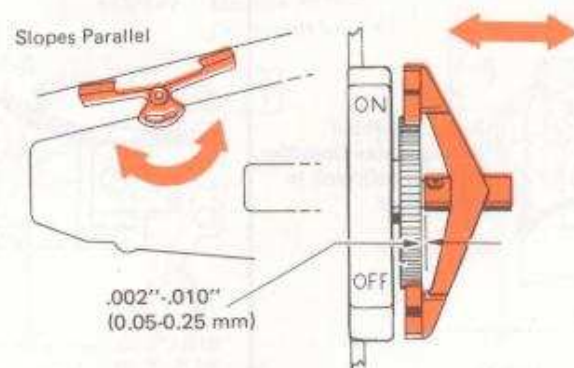
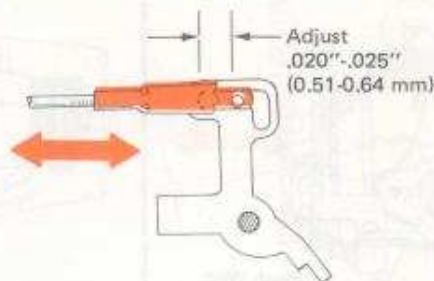
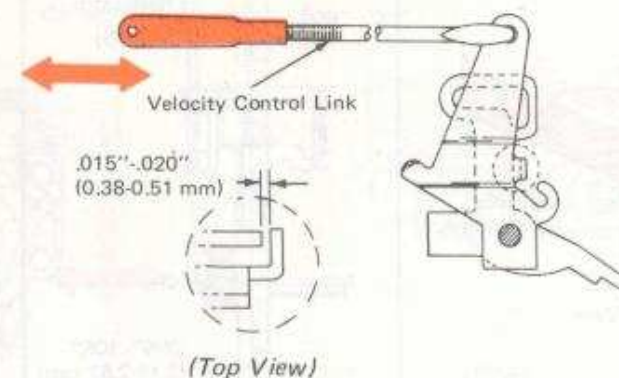
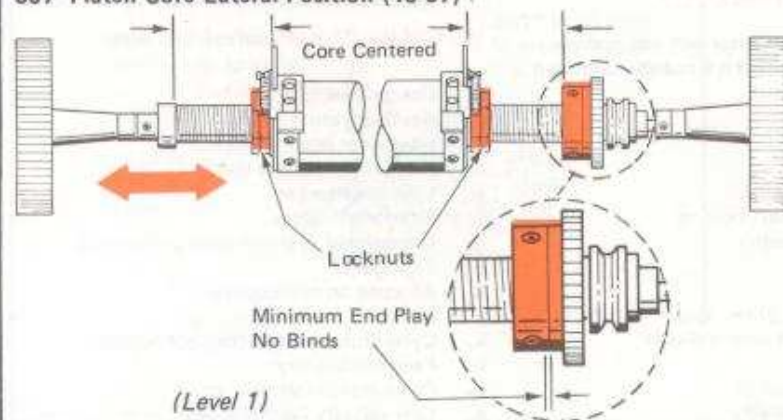
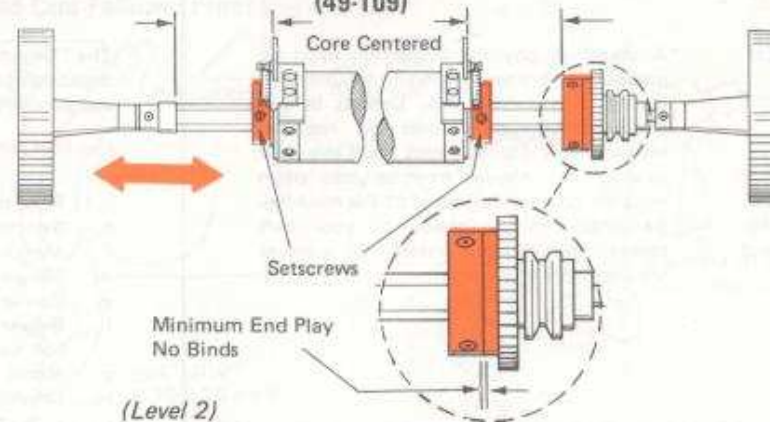
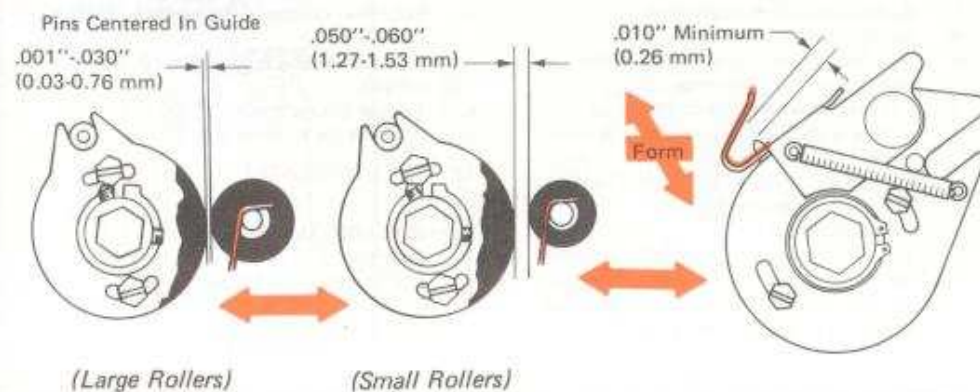
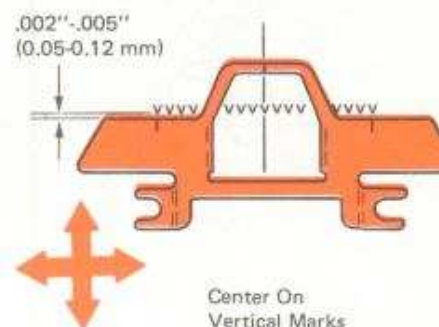
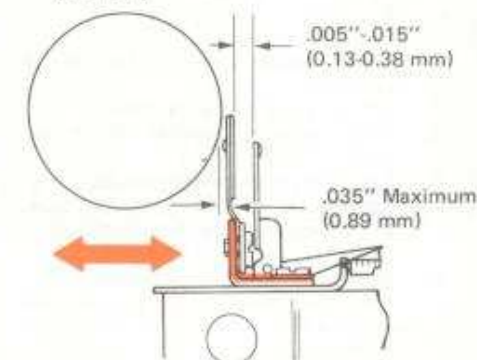


392 External Ribbon Control Bracket (13-91)

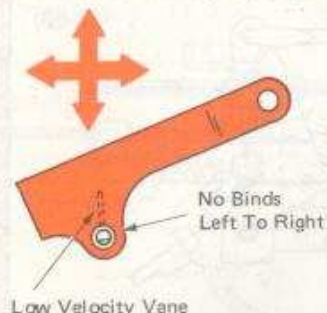


393 Ribbon Lift Control Link (13-63)

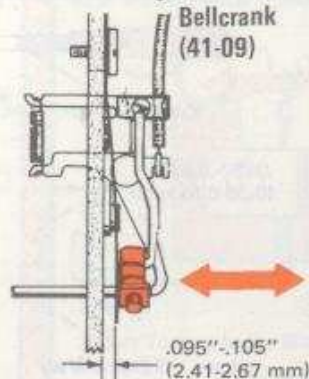


394 Manual Velocity Control Indicator (21-543)**395 Manual Velocity Low Velocity Link (21-550)****396 Manual Velocity Control Link (21-546)****397 Platen Core Lateral Position (49-07)****(49-109)****398 Pinwheel (49-08)****399 Pinwheel Paper Guide (49-105)****400 Cardholder (49-21)****401 Cardholder Mounting Bracket (22-164) (22-167)**

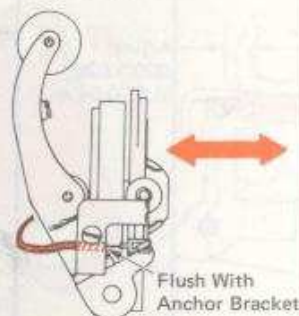
402 Vane Return Spring (41-07)



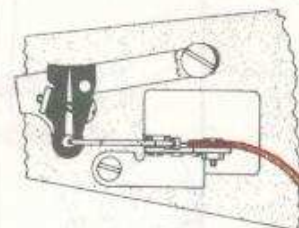
403 Shift Sensing Vane Bellcrank (41-09)



404 Rear Cable Clamp (41-25)



405 Front Cable Clamp (41-18)



406 Center Cable Clamp (41-25)



SERVICE CALL PROCEDURE

Preventive Maintenance MUST BE PERFORMED On Each Service Call.

Each Service Call Must Include:

- Note operator comments.
- Identify and correct operator complaint.
- Initial functional check — Look for parts wear, marginal adjustments, and proper lubrication.

With Special Attention To:

- Character Selection
 - Keyboard
 - Carrier And Rocker
 - Cycle Shaft/Gear Train
 - Operational Area (Carrier Return, Backspace, Tab, Spacebar, Index)
 - Shift
- Repair, replace parts, and lubricate as necessary.
 - *Perform electrical safety check.
 - When necessary, remove covers and clean.
 - All areas visible to the operator (e.g., rubber parts, cardholder, element/type, and covers) must be clean and in good repair.
 - Perform final functional check.
 - Work performed should be discussed with the operator and must be recorded on the history card.

*A visual or physical inspection must be made of the primary wiring on the machine during each service call. Defects in any electrical component must be replaced immediately! Do not wait until the next service call. Always exercise care when working on electrical areas of the machine. Be certain that no action on your part makes the product unsafe or exposes the customer to hazards.

LUBRICATION

The "Selectric" Typewriter will not operate dependably and reliably if it is not thoroughly and properly lubricated.

Use IBM No. 10 oil on the following:

- Print shaft wipers
- Selector cam shaft bearing
- Margin rack bearing
- Margin stops
- Carrier shoe
- Rotate detent guide, upper and lower ball sockets, tilt detent pivots
- Motor
- Selection ball rollers
- Index pawl assembly
- All links and clevises at both ends
- Ribbon feed and reverse plate
- Backspace intermediate lever
- Differential assemblies
- All functional parts and pivots in operational box assembly
- Tilt arm pivot and rotate link stud
- Rotate arm pivot and rotate link pivot studs
- Carbon ribbon drive spring and bearing
- Power frame center bearing
- Platen bushings
- Tilt latch mounting stud and bellcrank
- All other rotating or pivoting members at the bearing area which are not excepted in the following lists:

Use IBM No. 23 grease on the following:

- Operational ratchets
- Keylever return springs
- Interposer latch springs
- Ribbon lift control lever
- Linelock bracket
- Filter shaft flutes
- Operational keylever pawl guide studs
- Tape guide
- All cams on print sleeve
- Ball joint
- Cycle clutch and shift clutch springs
- Feed roll bearing
- Cycle clutch restoring cam
- Low velocity latch contacts
- All sliding parts not excepted
- All selective ribbon takeup gears
- Selective ribbon lift guide sliding members
- Correcting tape feed bellcrank latching surface
- Torque limiter spring
- Element (or silicone grease)

DO NOT LUBRICATE:

- Shift brake (braking surface)
- Gear train
- Carrier return and tab pinions

FUNCTIONAL CHECK**MISCELLANEOUS**

1. Visual Inspection
2. ON/OFF Switch, Keyboard Lock
3. Margin Set
4. Margin Release
5. Line Lock And Bell
6. Scales And Carrier Indicator
7. Switch Pitch Lever (Dual Pitch)
8. Index
9. Shift Lock
10. Margin Lights

PAPER HANDLING

1. Paper Insertion
2. Paper Release
3. Multiple Copy Control
4. Detent Release
5. Platen Variable

CARRIER MOVEMENT (Check all items in both pitches on dual-pitch machines.)

1. Spacebar And Escapement
2. Half Backspace
3. Backspace
4. Carrier Return
5. Express Backspace
6. Tab

RIBBON OPERATION

1. Ribbon Feed
2. Ribbon Lift Pattern
3. Ribbon Path And Tracking
4. Stencil Position
5. Ribbon Reverse (Fabric Ribbon)

PRINT

1. Strike Up — Check For:
 - a. Impression
 - b. Selection
 - c. Alignment
 - d. Keyboard Touch
 - e. Shift
2. Repeat Character
3. Impression Control

CORRECTING MECHANISM

1. Type several characters.
2. Depress correcting key.
 - a. Carrier should backspace once.
3. Restrike last character.
 - a. Character removed (lift-off tape) or character covered (cover-up tape)
 - b. No escapement
4. Type new character.
 - a. Same position as original character.
 - b. Normal escapement and print should resume.
5. Repeat steps 1 through 4.
 - a. No overlap of characters on correcting tape.

ELECTRICAL SAFETY CHECK

For both Per Call and Service Agreement machines, a visual or physical inspection must be made of the primary wiring on the machine during each service call.

VISUAL CHECK FOR ELECTRICAL HAZARDS

1. Linecords that have become damaged must be replaced.
2. Wires that are cut, rubbing on mechanical parts, or loose in the machine, must be replaced or relocated. Use cable tie or something similar to hold loose wires.
3. Whenever a switch cover, wire retainer, or safety shield has been removed for servicing, it must be reinstalled when service is completed.
4. Wire connections should only be replaced with wire nuts for crimp-on connectors. Neither tape nor insulating splice should be used.
5. Inspect all linecords that pass through holes in metal desks for cuts or markings. When necessary, grommets or tape should be placed over these edges that come in contact with the linecord.
6. Check to ensure:
 - a. that all double-insulation components are installed
 - b. that insulating paper isolates capacitors from a machine frame on two-wire products
 - c. that no parts, such as paper clips, staples, etc., have become jammed between electrical components and the machine frame, grounding that component to the machine frame. Check the particular product CEMs for a description of the required components.
7. Modifications made by customers to their machines, which expose Customer Engineers to electrical hazards, must be reported to your management.

CAUTION: Unplug the machine before working on electrical area.

A quick visual check of the electrical components in equipment during each service call will reduce the possibility of exposing a customer or CE to electrical shock. **Defects in any electrical component must be replaced immediately!** Do not wait until the next service call. Always exercise care when working on electrical areas of the machine. Be certain that no action on your part makes the product unsafe or exposes hazards to the customer.

BROKEN TAPES CHECK**Rotate Tape**

1. Rotate detent clearance (skirt)
2. Print shaft timing
3. Shift interlock adjustments
4. Defective rotate arm and shift arm pulleys
5. Tape guide
6. Negative latch clearance insufficient
7. Latch links: too long/too short
8. Popping latches
9. Latch angle
10. Broken or sticking rotate spring
11. Binding on non-greased type element
12. Shift arm pulley
13. Chips or defects in rotate pulleys
14. Rotate pulley key
15. Loose screw in differential bracket

Tilt Tape

1. Detent to tilt ring clearance
2. Burrs on tilt pulleys
3. Binds in tilt ring
4. Sector gear
5. Print shaft timing
6. Tilt pulley spring (off or broken)
7. Loose detent follower
8. Tilt tape/carrier shoe eccentric stud

STANDARD U.S. TYPE ELEMENTS 7XX 8XX

Tilt Latches Used	Rotate										Type Element Positions	
	R-5	R-4	R-3	R-2	R-1	H O M E	R+1	R+2	R+3	R+4		R+5
T-0	/ 	# / 3	& / 7	* / 8	\$ / 4	Z / z	@ / 2	% / 5	¢ / 6	) / 0	(/ 9	Tilt T-0
T-1	X / x	U / u	D / d	C / c	L / l	T / t	N / n	E / e	K / k	H / h	B / b	T-1
T-2	M / m	V / v	R / r	A / a	O / o	° / °	· / ·	"/ "	I / i	S / s	W / w	T-2
T-1, T-2	G / g	F / f	:	;	? / ?	J / j	+ / =	P / p	Q / q	Y / y	- / -	T-3
	-5 R-1	-5 R-2	-5 R-1	-5 R-2	-5 R-2A	H O M E	R-1	R-2	R-1 R-2	R-2 R-2A	R-1 R-2A	Rotate Latches Used

FILL IN FOR OTHER TYPE ELEMENTS 7XX 8XX

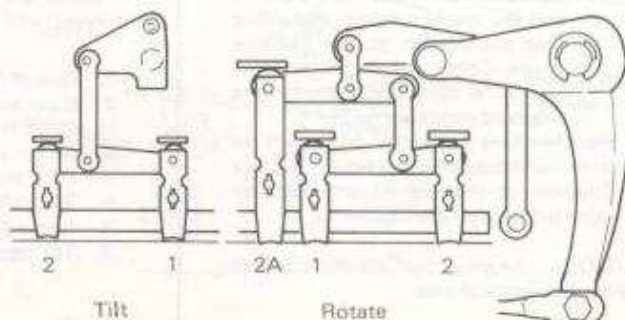
Tilt Latches Used	Rotate										Type Element Positions	
	R-5	R-4	R-3	R-2	R-1	H O M E	R+1	R+2	R+3	R+4		R+5
T-0	/	/	/	/	/	/	/	/	/	/	/	Tilt T-0
T-1	/	/	/	/	/	/	/	/	/	/	/	T-1
T-2	/	/	/	/	/	/	/	/	/	/	/	T-2
T-1, T-2	/	/	/	/	/	/	/	/	/	/	/	T-3
	-5	-5 R-1	-5 R-2	-5 R-1 R-2	-5 R-2 R-2A	H O M E	R-1	R-2	R-1 R-2	R-2 R-2A	R-1 R-2 R-2A	Rotate Latches Used

STANDARD U.S. 96 TYPE ELEMENTS

Tilt Latches Used	Rotate										Type Element Position		
	R-6	R-5	R-4	R-3	R-2	R-1	H O M E	R+1	R+2	R+3		R+4	R+5
T-0	/	/	/	/	/	/	/	/	/	/	/	/	Tilt T-0
T-1	/	/	/	/	/	/	/	/	/	/	/	/	T-1
T-2	/	/	/	/	/	/	/	/	/	/	/	/	T-2
T-1, T-2	/	/	/	/	/	/	/	/	/	/	/	/	T-3
	-6	-6	-6	-6	-6	-6	H O M E	R-1	R-2	R-1	R-2	R-1	Rotate Latches Used

FILL IN FOR OTHER TYPE ELEMENTS

Tilt Latches Used	Rotate											Type Element Positions	
	R-6	R-5	R-4	R-3	R-2	R-1	H O M S	R+1	R+2	R+3	R+4		R+5
T-0	/	/	/	/	/	/	/	/	/	/	/	/	Tilt T-0
T-1	/	/	/	/	/	/	/	/	/	/	/	/	T-1
T-2	/	/	/	/	/	/	/	/	/	/	/	/	T-2
T-1, T-2	/	/	/	/	/	/	/	/	/	/	/	/	T-3
	-6	-6 R-1	-6 R-2	-6 R-1 R-2	-6 R-2 R-2A	-6 R-1 R-2 R-2A	H O M E	R-1	R-2	R-1 R-2	R-2 R-2A	R-1 R-2 R-2A	Rotate Latches Used



APPLICATIONS RECOMMENDATIONS FOR IBM RIBBONS

TYPING APPLICATIONS

Correspondence		x		x	x
Statistical Correspondence	x	x		x	x
Specification Writing	x	x		x	x
Medical Reports	x	x		x	x
Executive Correspondence		x		x	x
Routine Correspondence	x	x		x	x
Typing on Hard-to-Image Originals Ex. Engineering Drawings	x		x	x	x
Optical Character Recognition		x	x		x
Manifolding					x
** Speech Writing	x	x			x
Negotiable Instruments (checks, stocks, etc.)	x	x		x	x
* Erasable Bond Papers	x		x	x	x

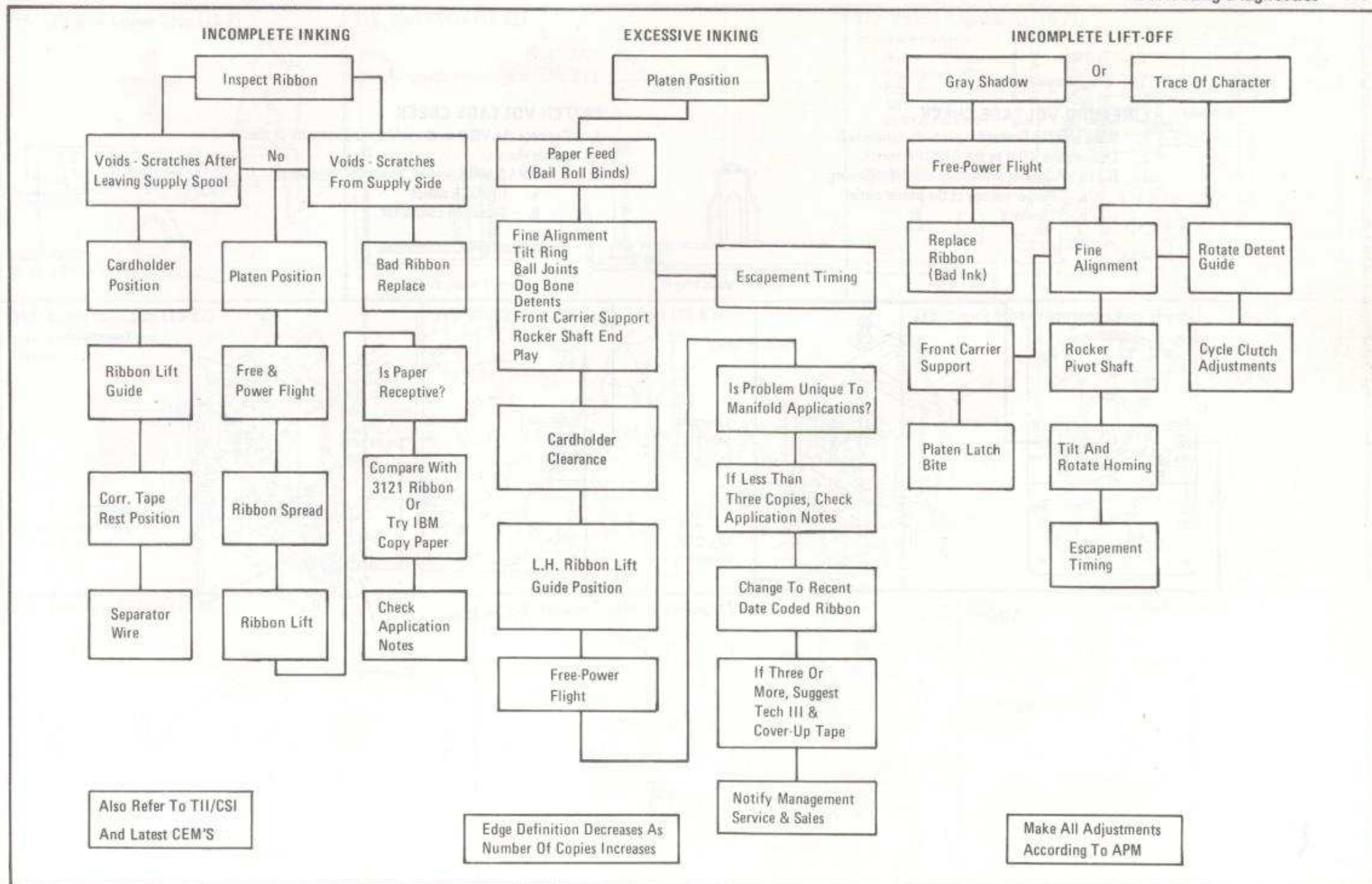
REPRODUCTION APPLICATIONS

Heat Transfer Copying	x	x	x	x	x	x
Transfer Electrostatic Reproduction	x	x	x	x	x	x
Direct Electrostatic Reproduction	x	x	x	x	x	x
Offset Masters (Direct to Plate)	x	x		x	x	
Offset Masters (Copier Process)	x	x	x	x	x	x
Offset Masters (Photo Process)	x	x				x
Stencil Writing (Mimeograph)						
Diazo Process (Ozalid or Bruning)						
Spirit Duplication (Hecktagraphic or Ditto)						

* The receptivity of the surface of these materials vary widely and care must be used in the selection of a specific material, typestyle and ribbon to produce the best result. When in doubt, let the customer try it first.

** Best results with Orator element are obtained by using IBM Tech III Ribbon.

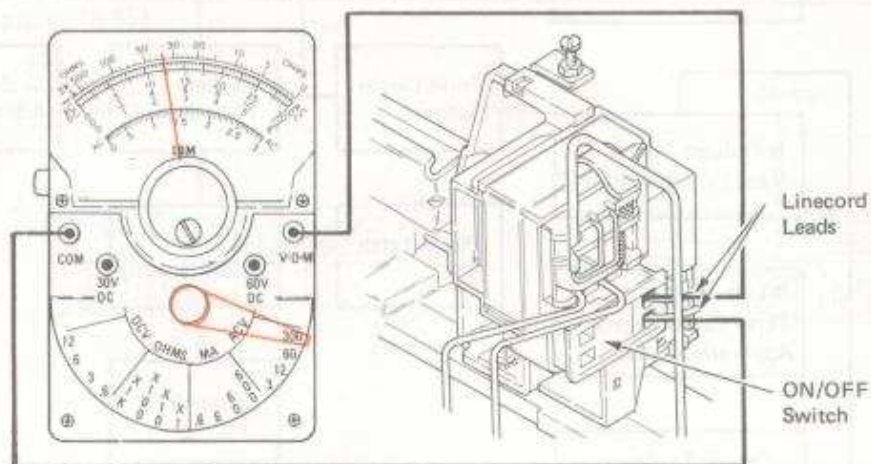
IBM General Purpose Fabric Ribbons
Film Carbon Ribbons (All)
OCR Film Carbon Ribbon
"Special" Film Carbon Ribbon (5122)
IBM Tech III Ribbon
IBM Correctable Film Ribbon



CAUTION
115 VAC may be present.

LINECORD VOLTAGE CHECK

1. Make sure the linecord is properly connected.
2. Connect the VOM to the ON/OFF switch.
3. If 115 VAC is not present, check the following:
 - a. Proper voltage at the power outlet
 - b. Linecord

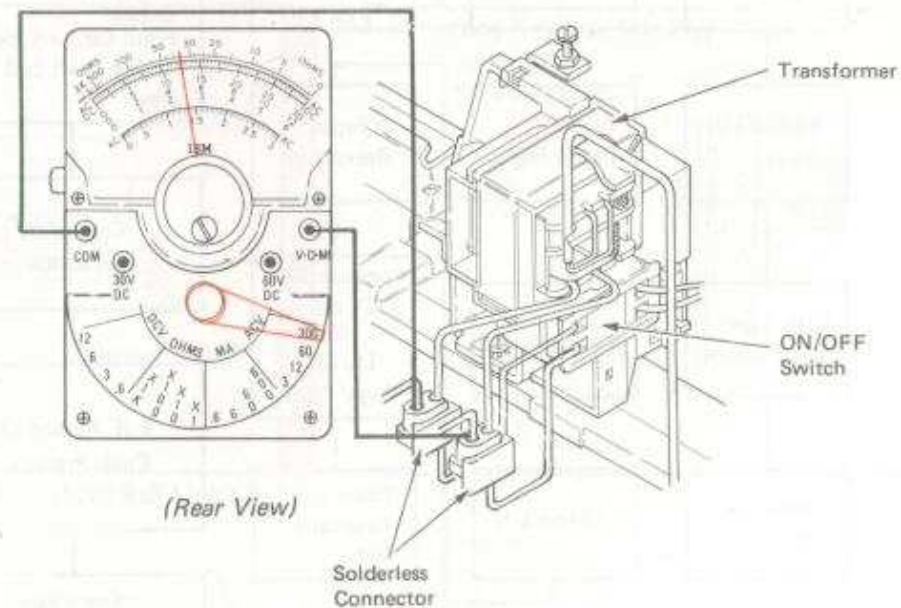


(Rear View)

CAUTION
115 VAC may be present.

SWITCH VOLTAGE CHECK

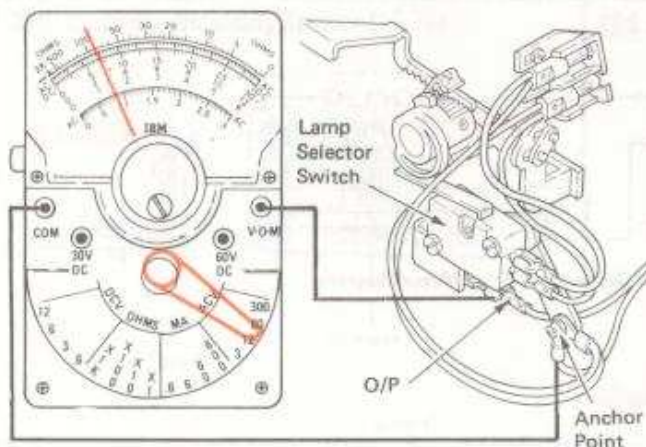
1. Connect the VOM to the solderless connector at the points shown.
2. If 115 VAC is not present, check the following:
 - a. ON/OFF switch
 - b. Solderless connector



(Rear View)

TRANSFORMER VOLTAGE CHECK

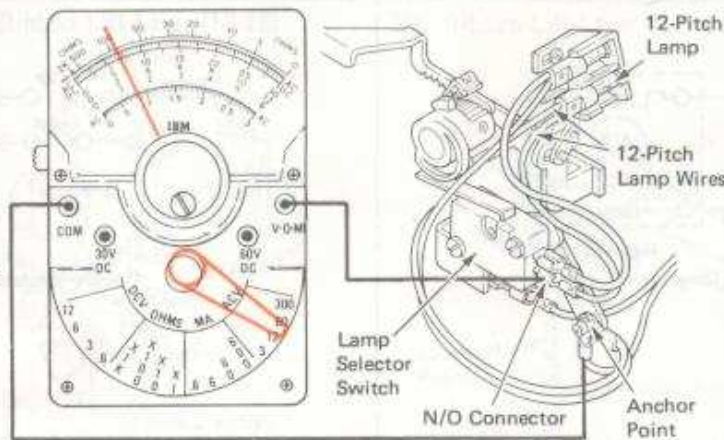
1. Connect a VOM to the anchor point and the O/P of the lamp selector switch.
2. If 2.3 to 3.0 VAC is not present, check the following:
 - a. Solderless connector
 - b. Transformer



(Left Side View)

12 PITCH VOLTAGE CHECK

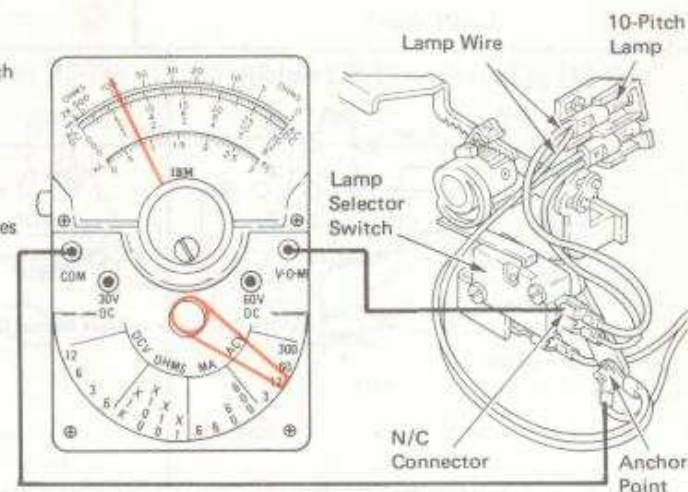
1. Connect a VOM to the anchor point and to the N/O connector.
2. If 2.3 to 3.0 VAC is not present, check the following:
 - a. Lamp selector switch
 - b. 12-pitch lamp
 - c. 12-pitch lamp wires



(Left Side View)

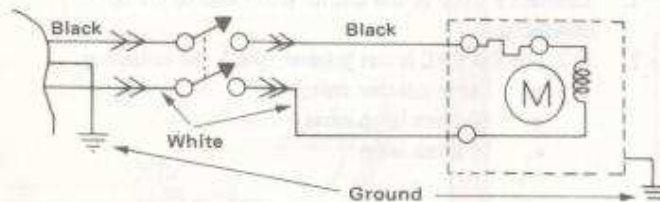
10 PITCH VOLTAGE CHECK

1. Connect a VOM to the anchor point and to the N/C connector.
2. If 2.3 to 3.0 VAC is not present, check the following:
 - a. Lamp selector switch
 - b. 10-pitch lamp wires
 - c. 10-pitch lamp

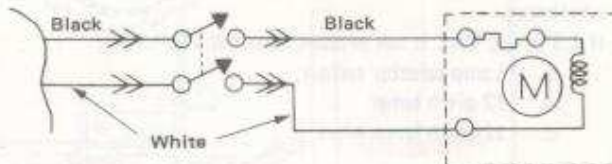


(Left Side View)

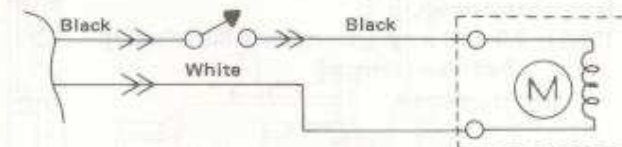
MOTOR WIRING DIAGRAMS



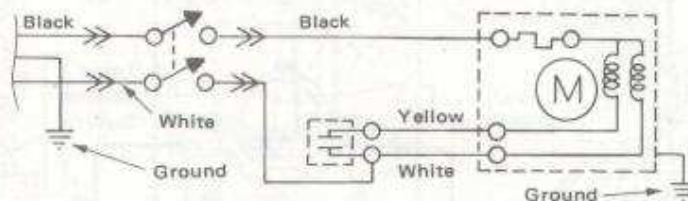
3-Wire Shaded Pole Motor Diagram



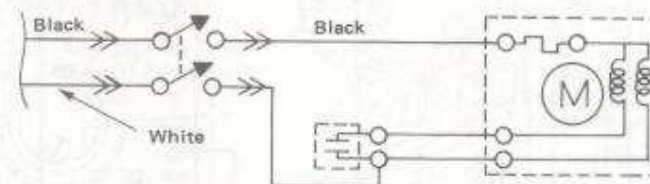
Double-Insulated Shaded Pole Motor Diagram



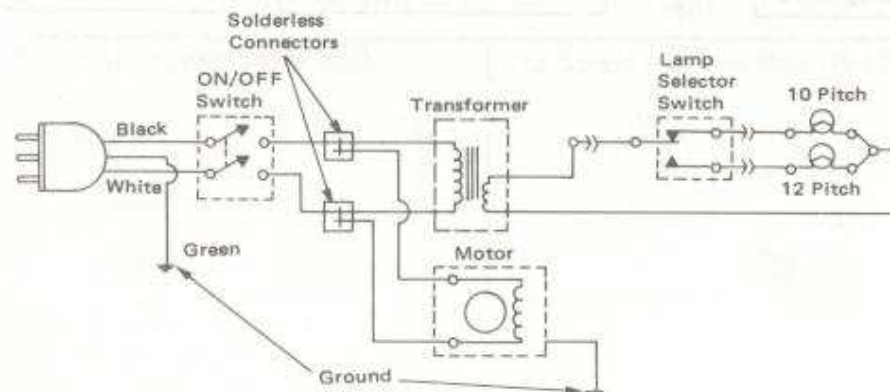
2-Wire Double-Insulated Shaded Pole Motor Diagram
(Single Pole Switch)



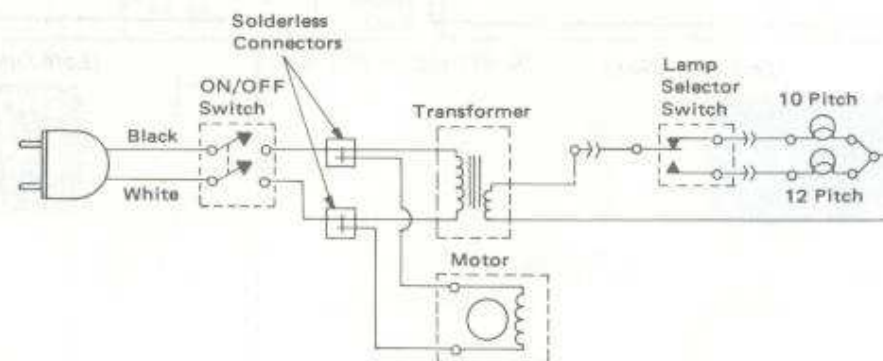
3-Wire Capacitor - Start Motor Diagram



Double-Insulated Capacitor - Start Motor Diagram



Dual-Pitch 3-Wire Double Insulated Shaded Pole Motor
"Selectric" III



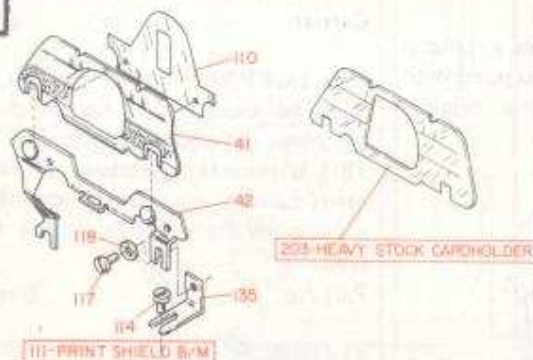
Dual-Pitch 2-Wire Double Insulated Shaded Pole Motor
"Selectric" III

CARDHOLDER CHARTS

MECH. CODE

26

(CORRECTING)



MECH. CODE

49

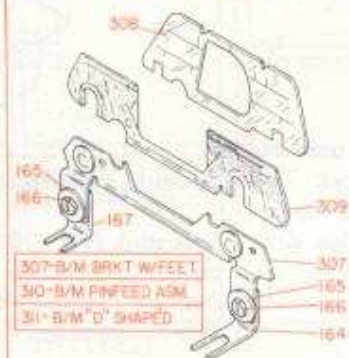
(PIN FEED - 9XX
- THAILAND -
W.T.)

MECH. CODE

22

(PAPER FEED)

UNIVERSAL BRACKET (SNAP-IN)

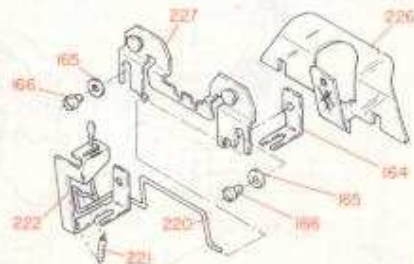
UNIVERSAL CARDHOLDER
(BOLT ON)

PIN FEED CARDHOLDER

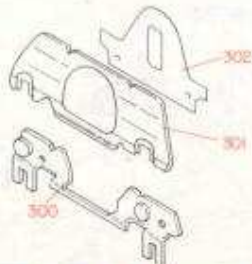


313-B/M COMPLETE

225-PRINT SHIELD



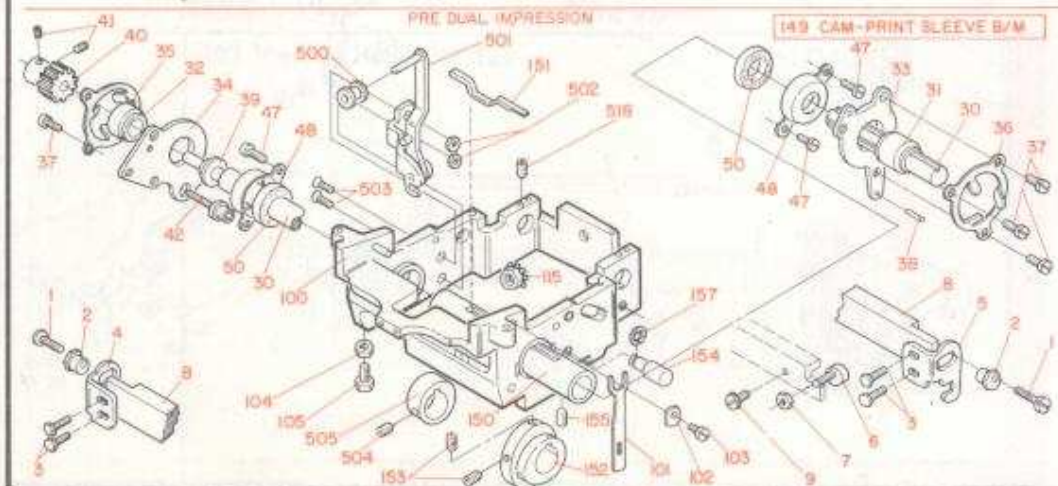
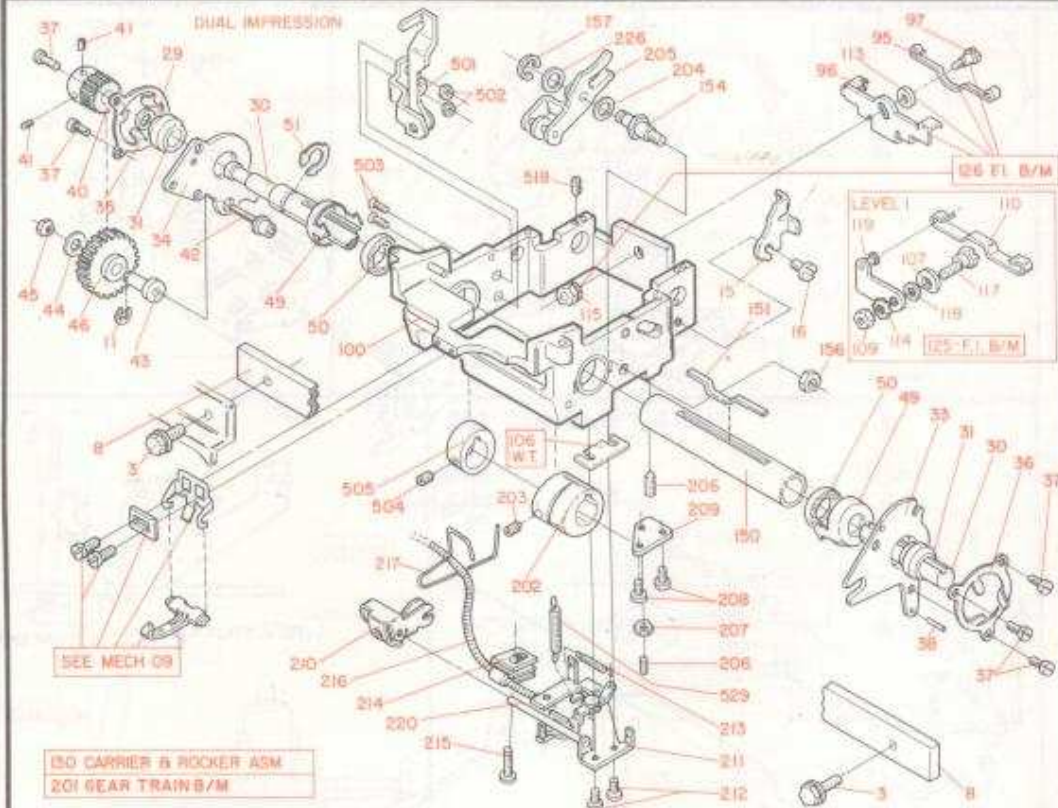
8/9XX WT

303-ASM FOLDER PRINT SHIELD
304-PACK WITH CARD HOLDER ASSEMBLIES

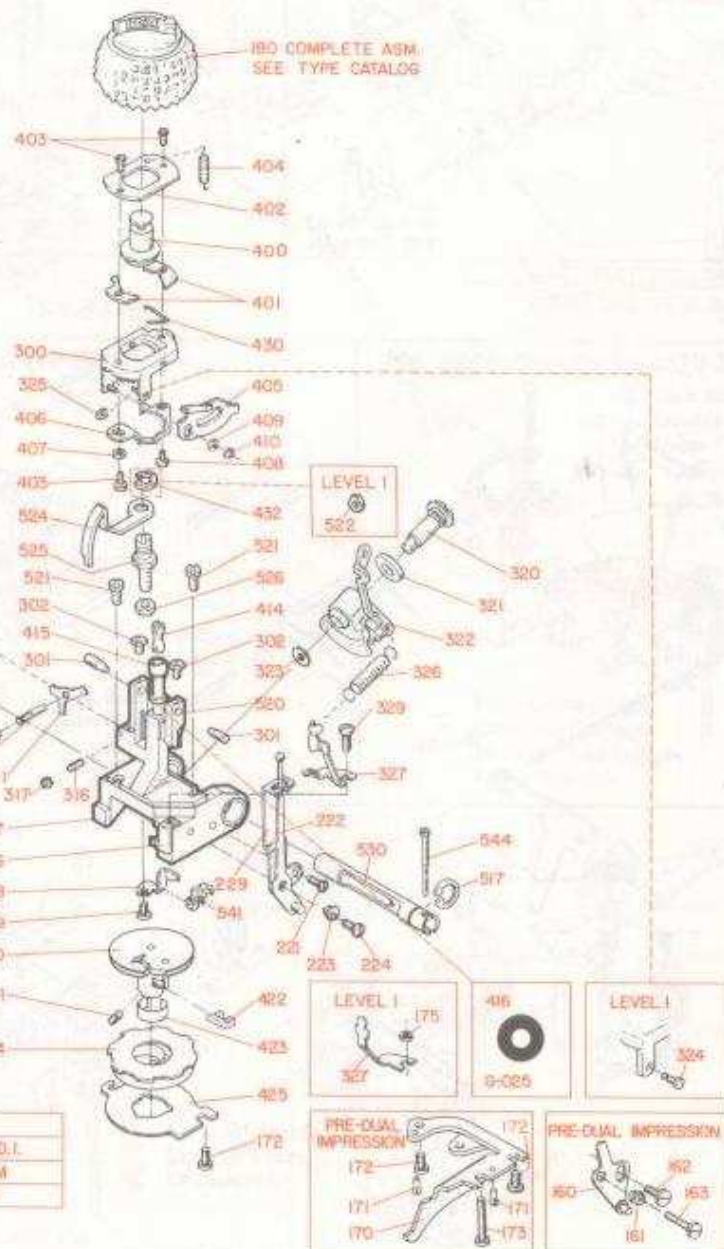
MECH. CODE

02

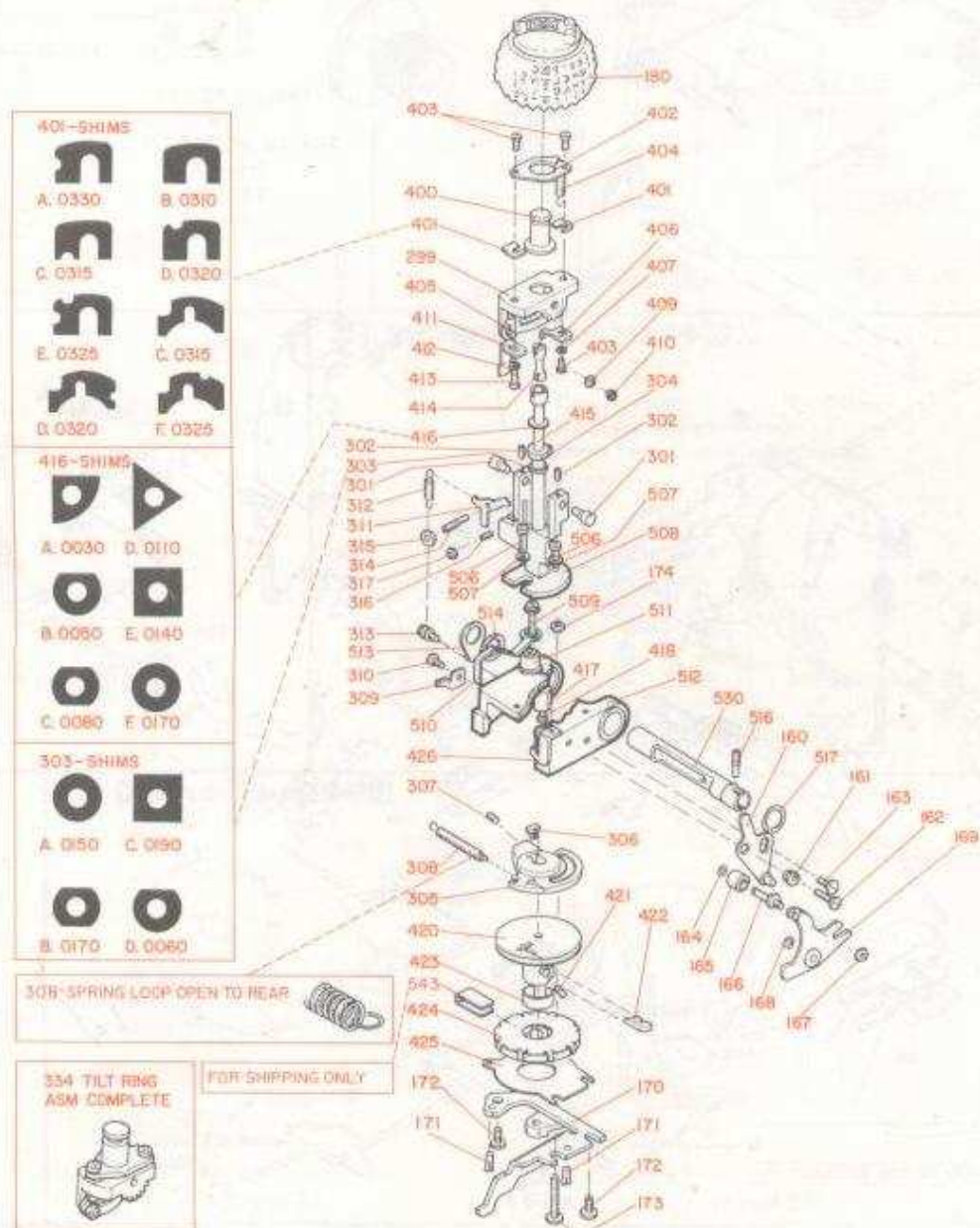
CARRIER



ROCKER (GEARLESS TYPE TILT)

 MECH. CODE
02


ROCKER (GEAR TYPE TILT)

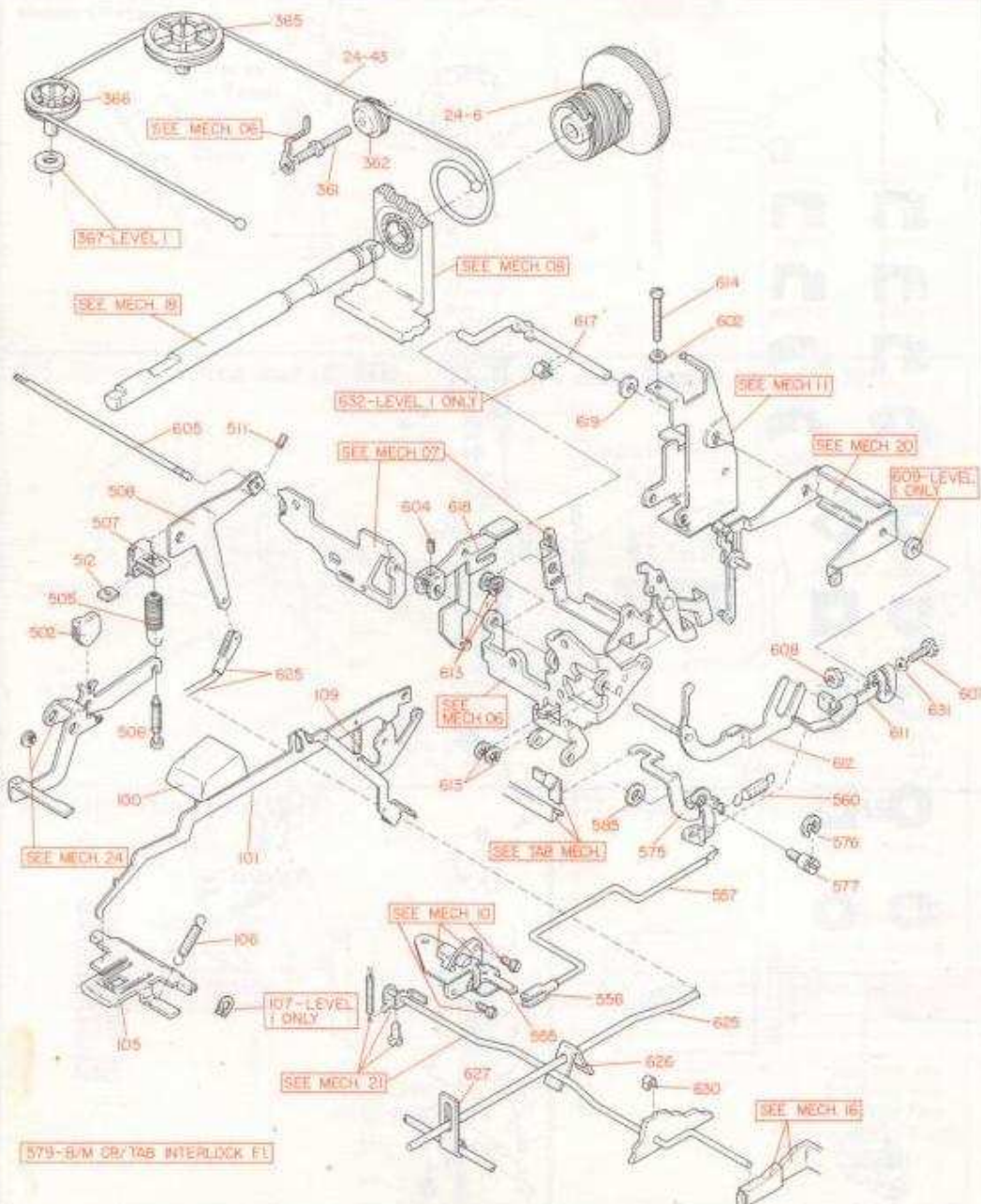
 MECH. CODE
02


MECH. CODE

03

CARRIER RETURN

(R B/S)



MECH. CODE

03

CARRIER RETURN

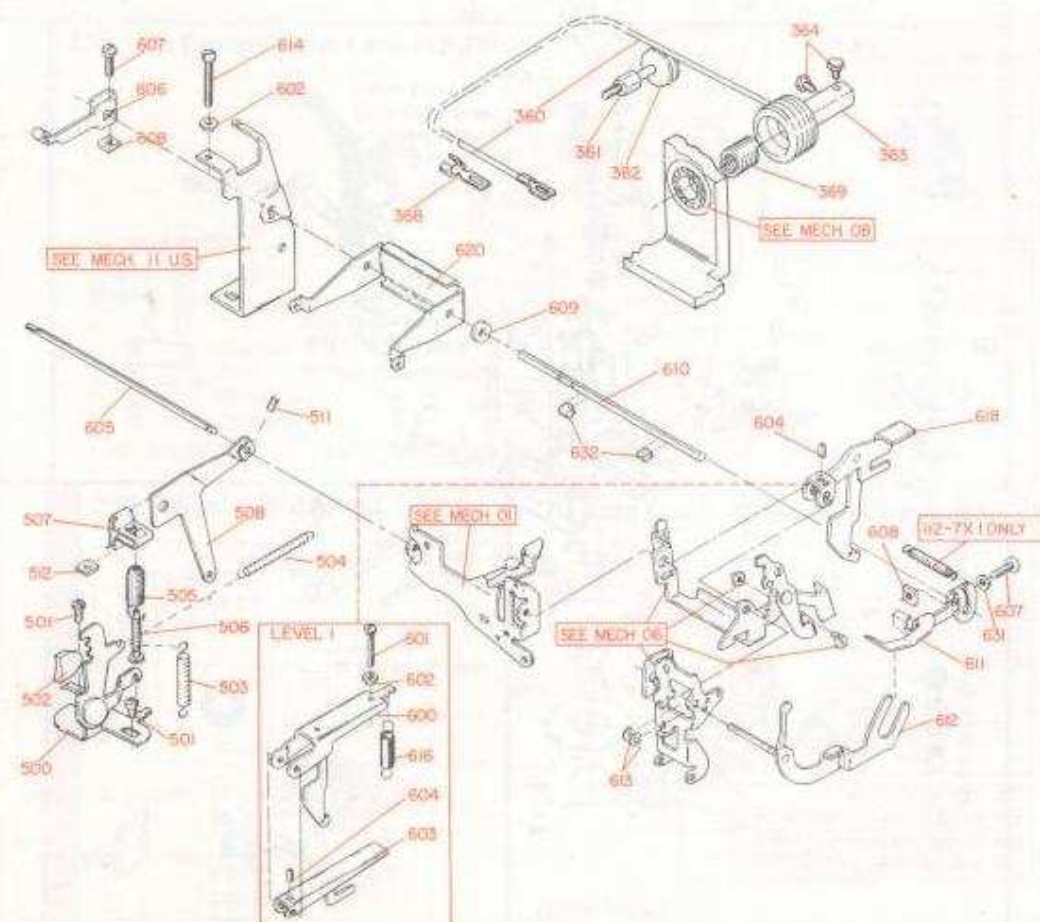
(NR B/S)

ELECTRIC II



ELECTRIC II EARLY LEVELS

ELECTRIC LATE LEVELS



CARRIER RETURN (NR B/S)

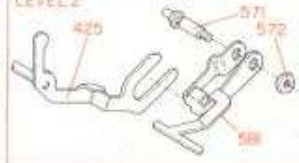
MECH. CODE
03

SELECTRIC EARLY LEVELS

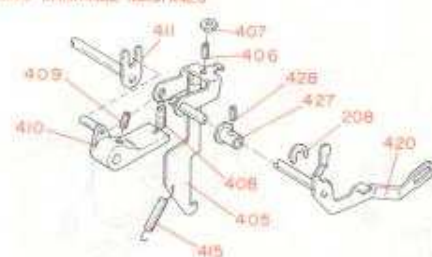
LEVEL 3



LEVEL 2



LONG CARRIAGE MACHINES



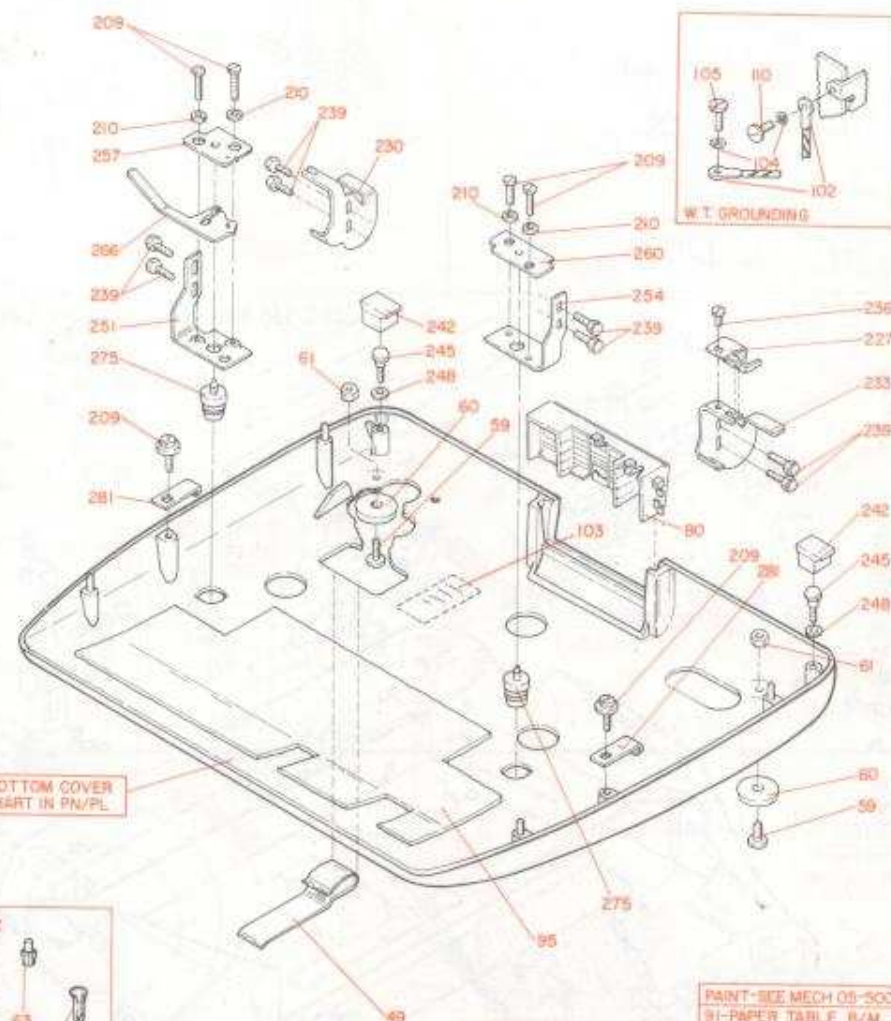
LEVEL 2



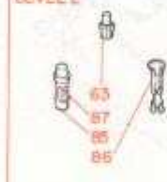
SEE MECH 09



COVERS & MOUNTING (7XX)

MECH. CODE
04303-BOTTOM COVER
SEE CHART IN PN/PL

LEVEL 2

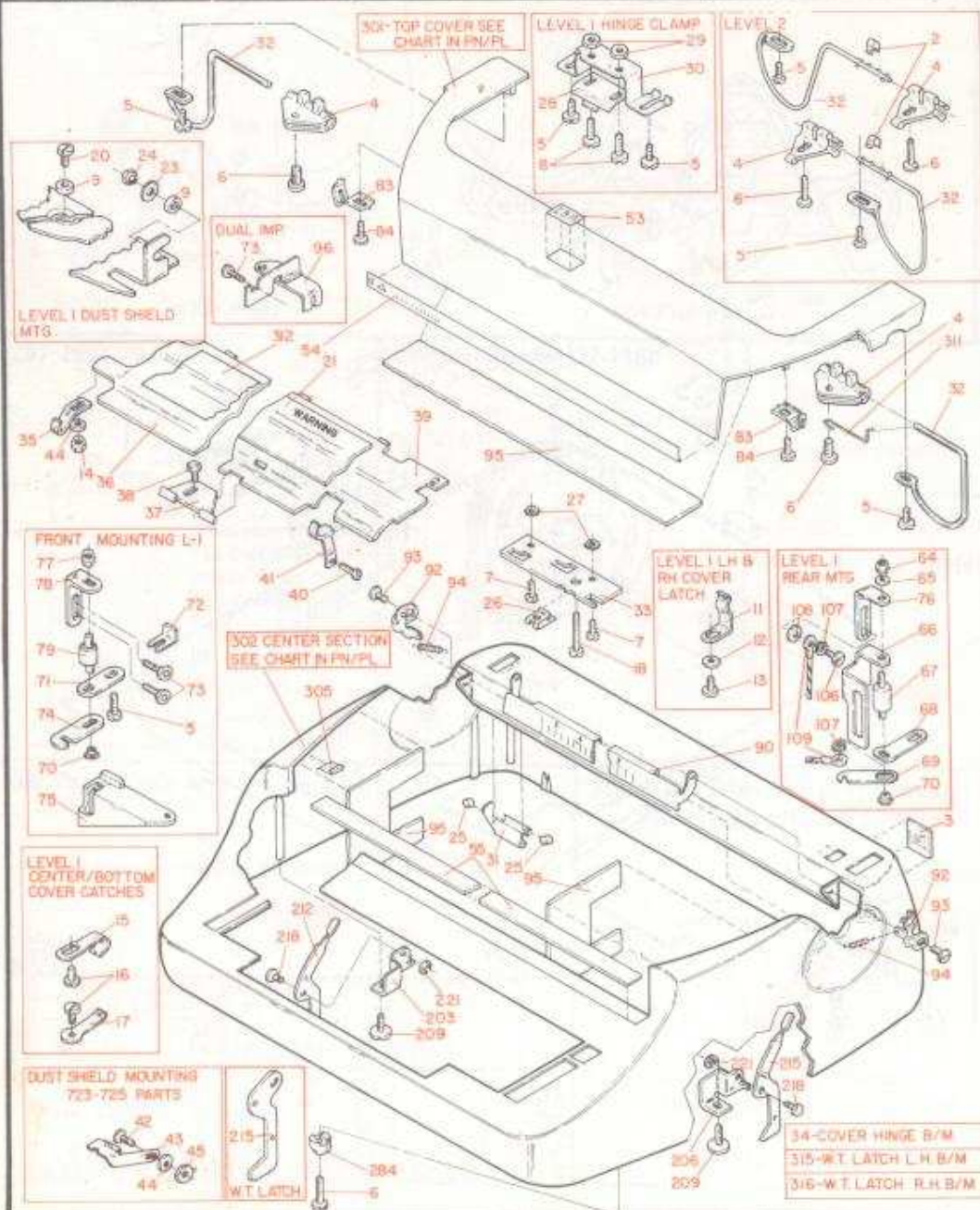
SERVICE
FOOTFRAME
BOLT DOWNCOVER
BOLT DOWN

PAINT-SEE MECH 05-500
91-PAPER TABLE B/M
56-DUST COVER
95-B/M SOUND INSULATION
100-B/M COVER
LATCH ADAPTOR
304-B/M COVERS(SEE CHART
IN PN/PL)
285-B/M SHOCK MOUNTS
310-B/M SET OF BOTTLES W/T

MECH. CODE

04

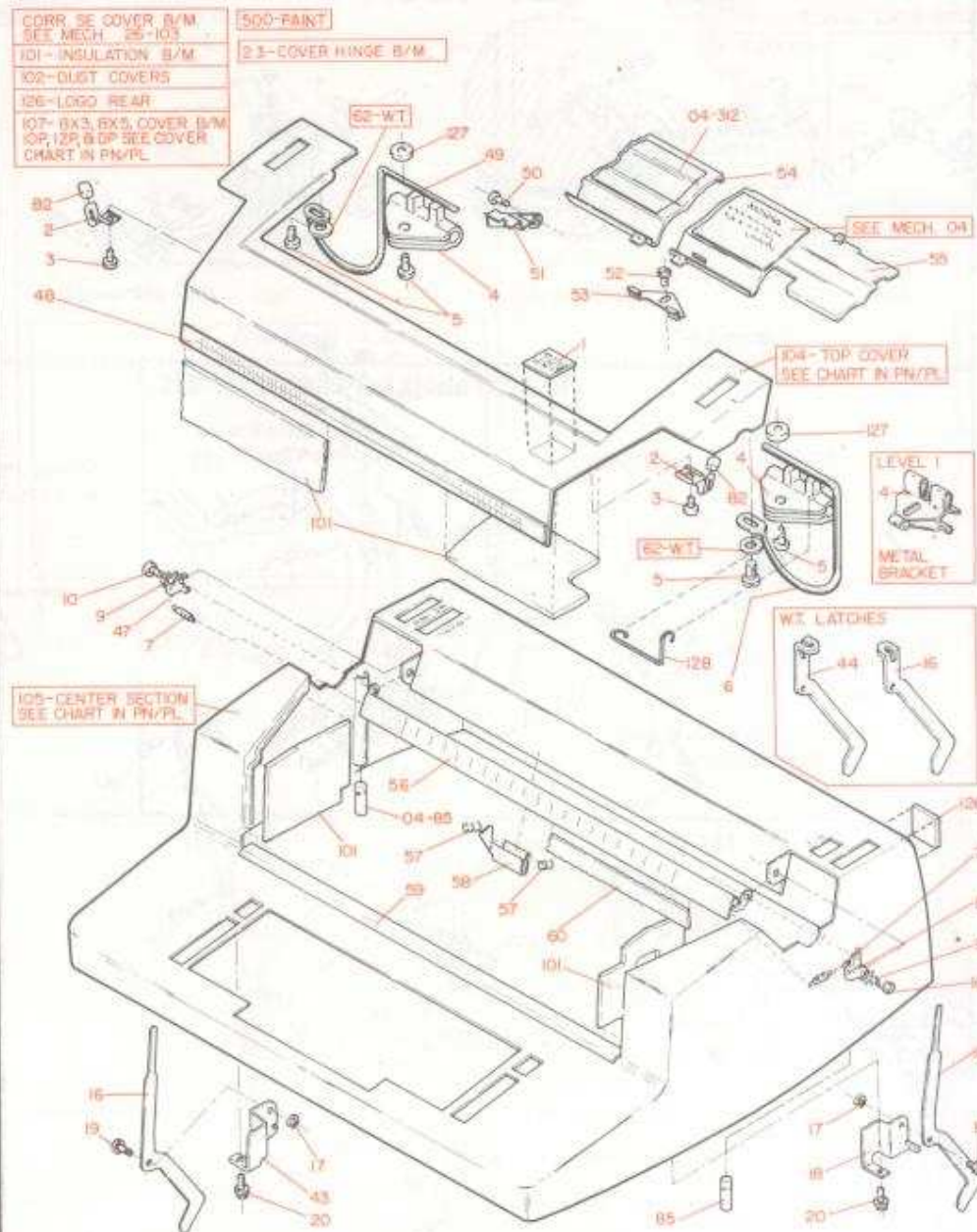
COVERS & MOUNTING (7XX)



MECH. CODE

05

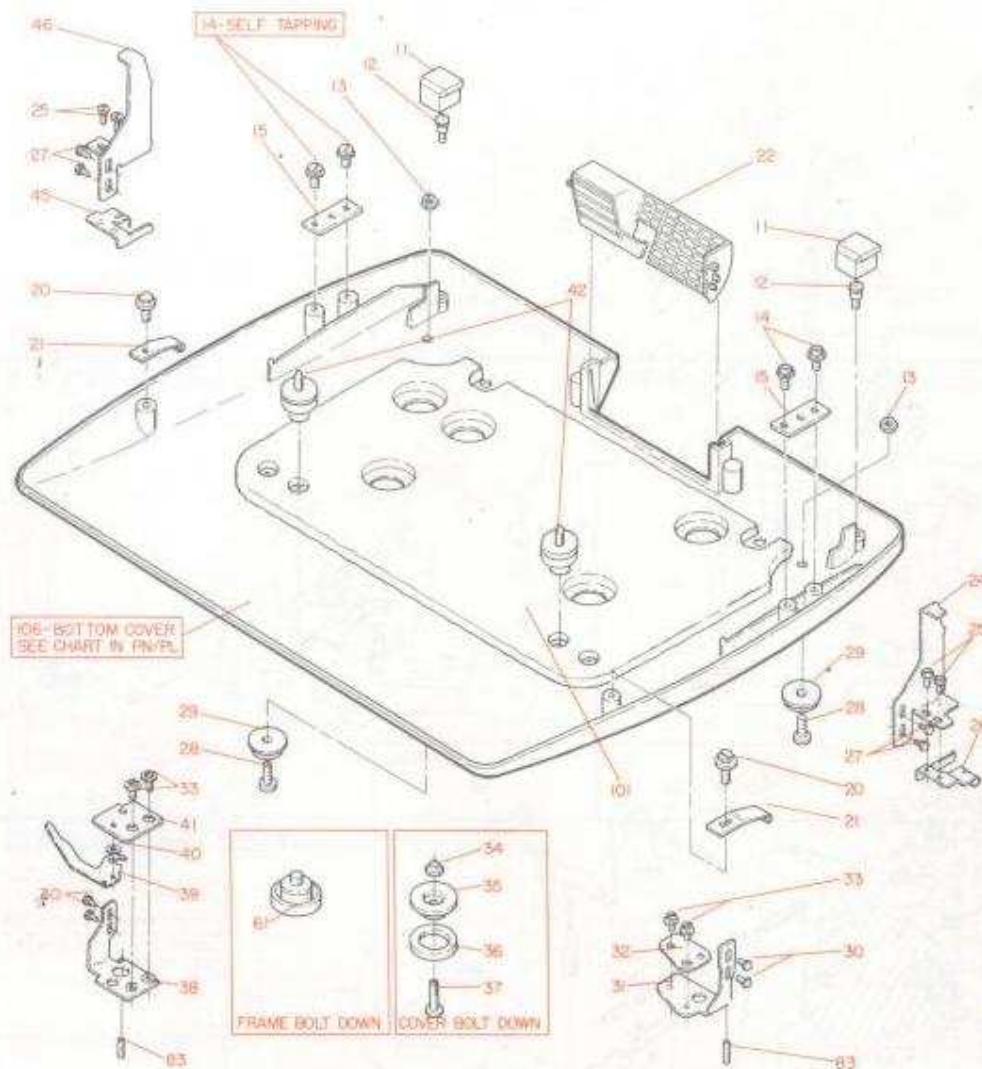
COVERS & MOUNTING (8XX) (9XX)



COVERS & MOUNTING (8XX) (9XX) (670X)

MECH. CODE

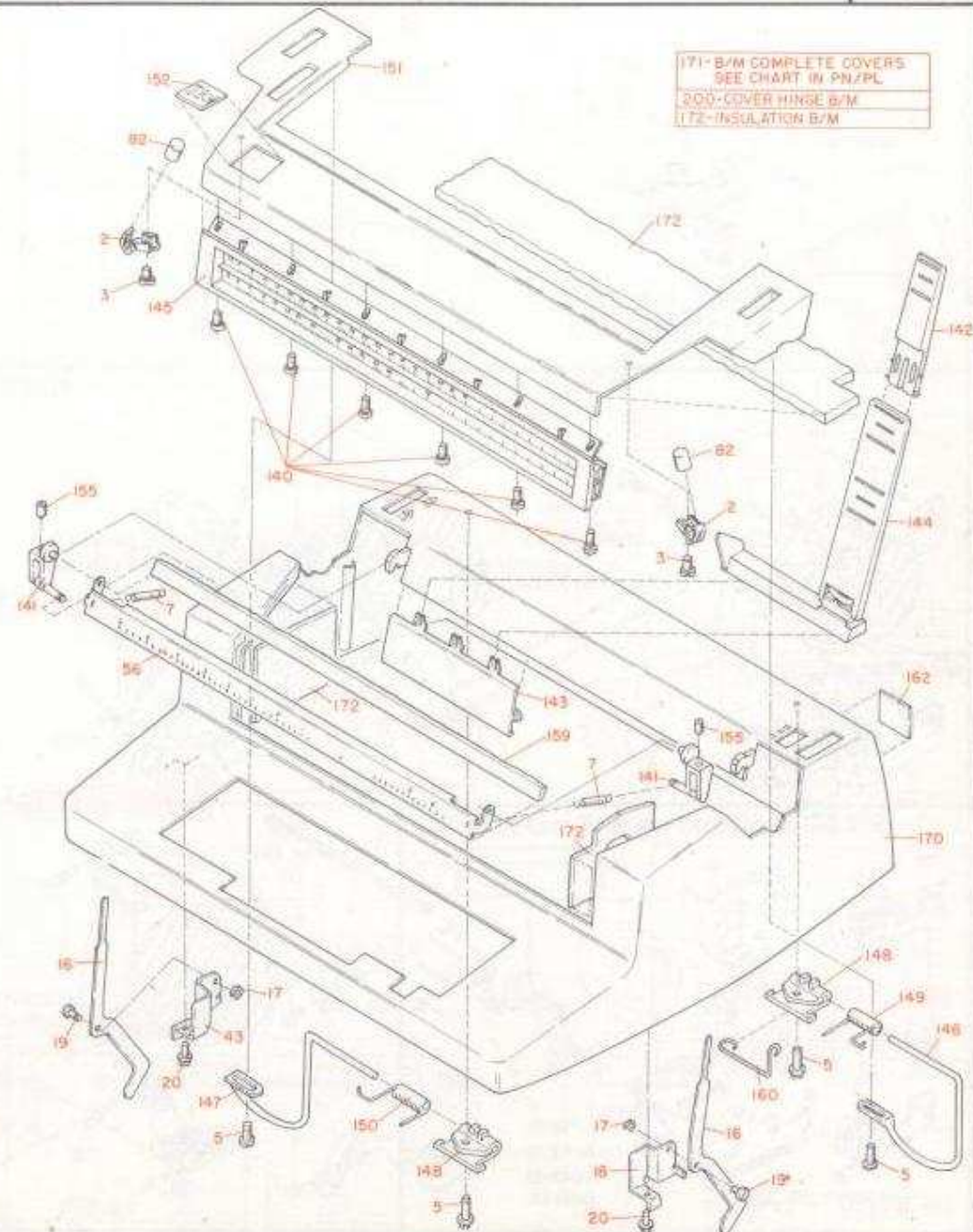
05



COVER (670X)

MECH. CODE

05

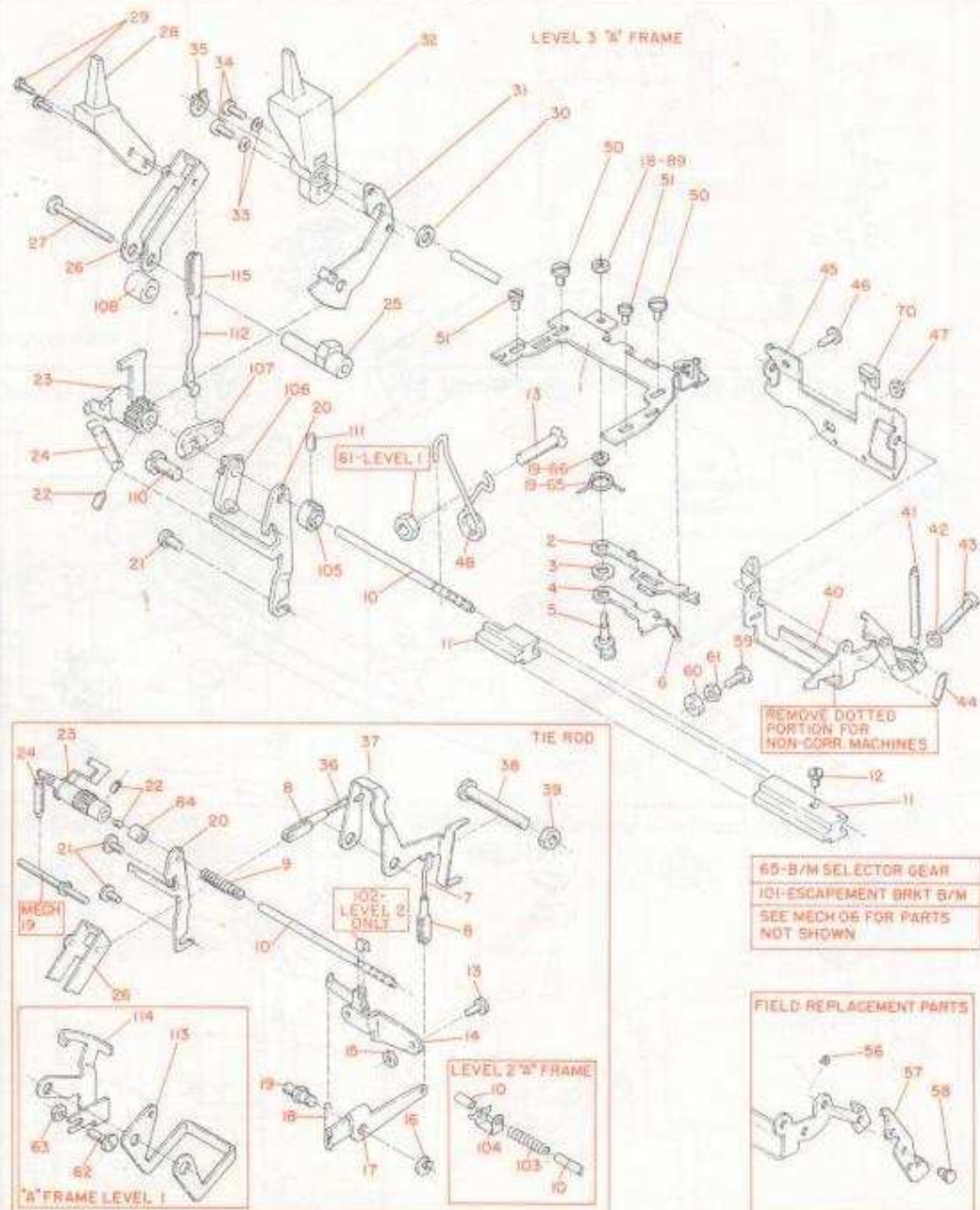


06

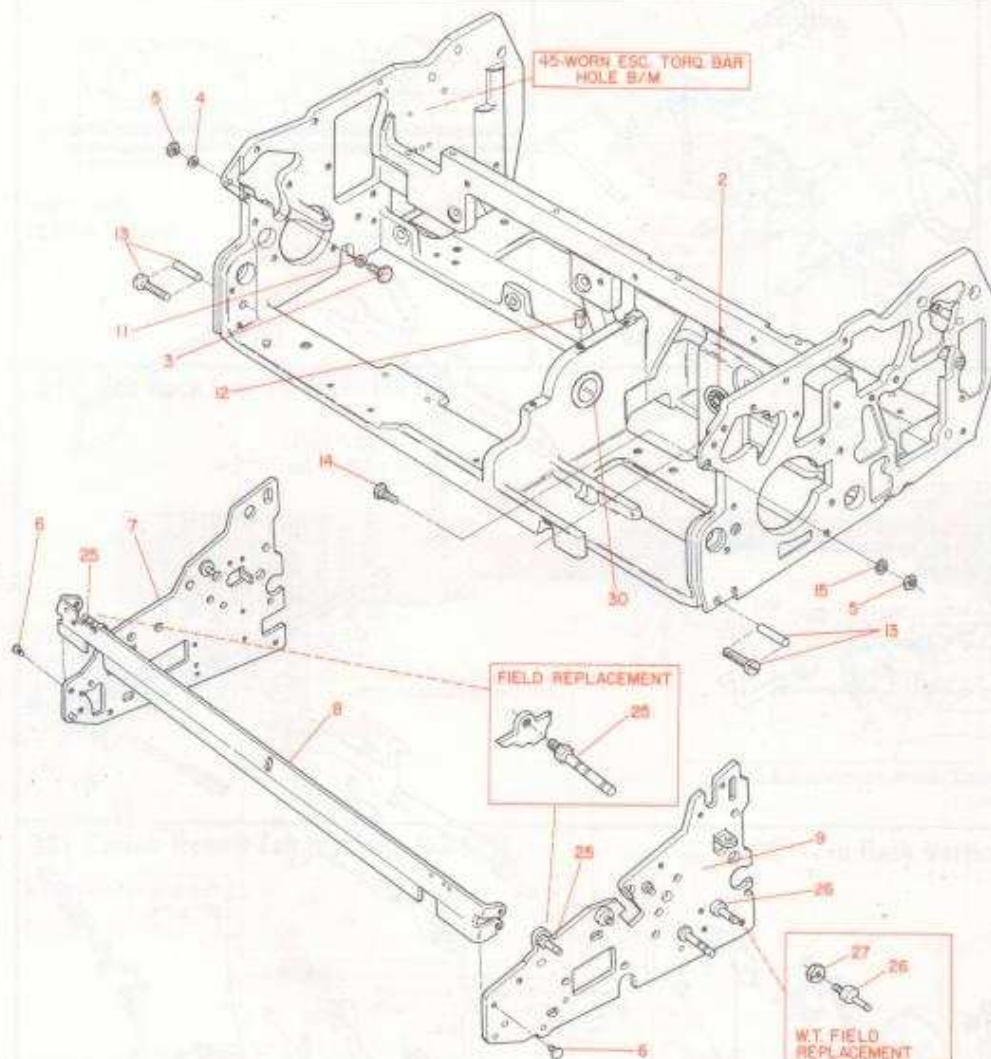
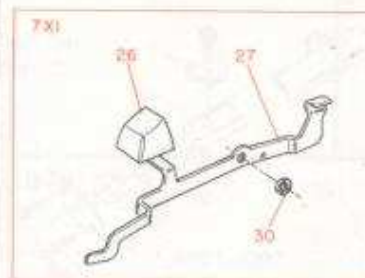
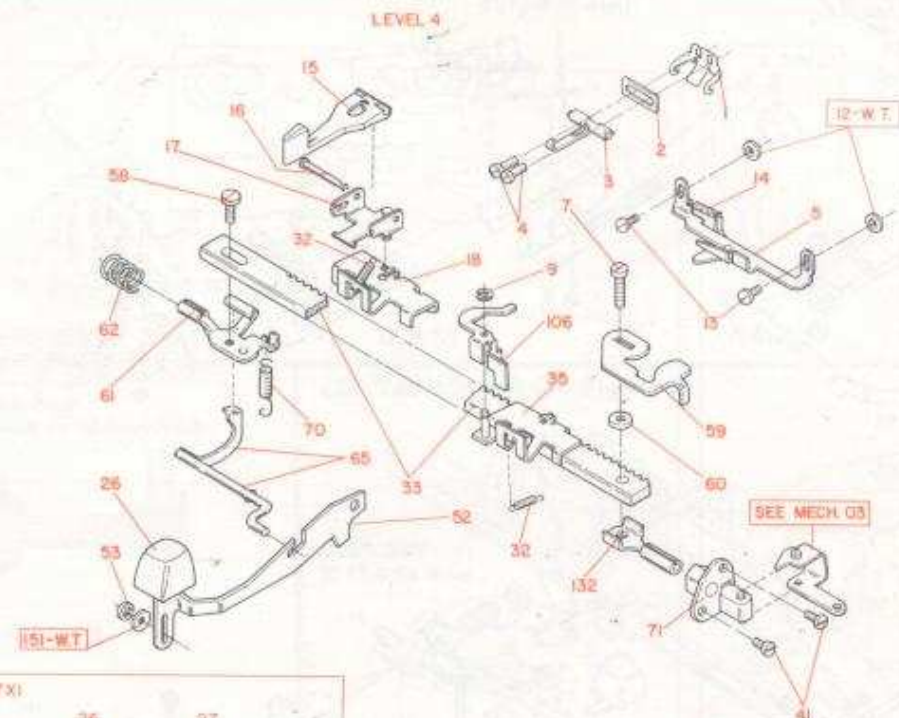
ESCAPEMENT
(NRB/S)



ESCAPEMENT HALF/BACKSPACE
(RB/S)



FRAMES

MECH. CODE
08MARGINS
(NR B/S)MECH. CODE
09

MECH. CODE

09

MARGINS
(NR B/S)

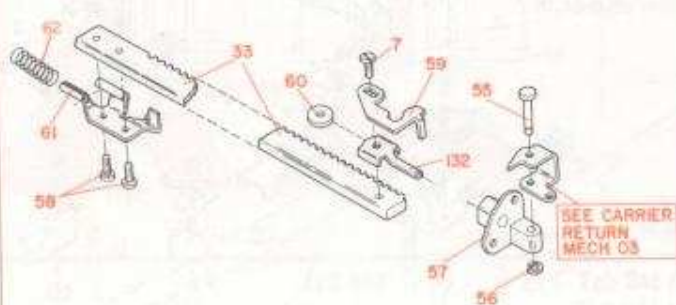
LEVEL 3

LEVEL 2



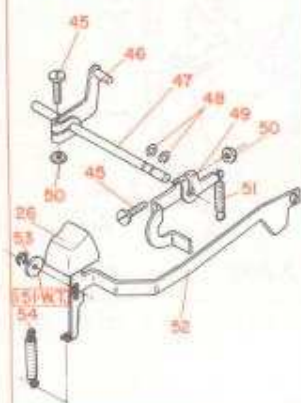
151-W.T.

LEVEL 2



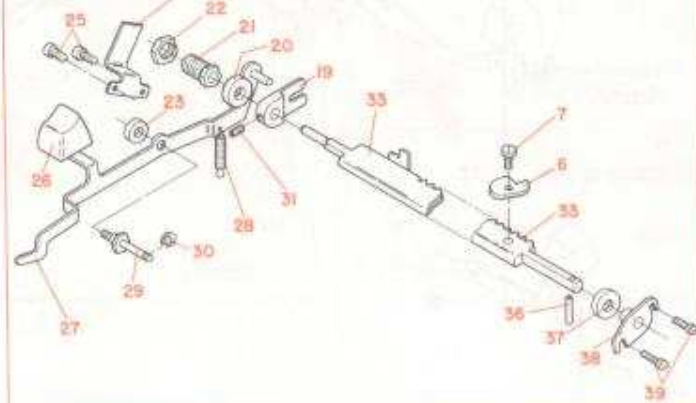
SEE CARRIER
RETURN
MECH 03

LEVEL 1 LONG-CARRIAGE



1997

LEVEL 4



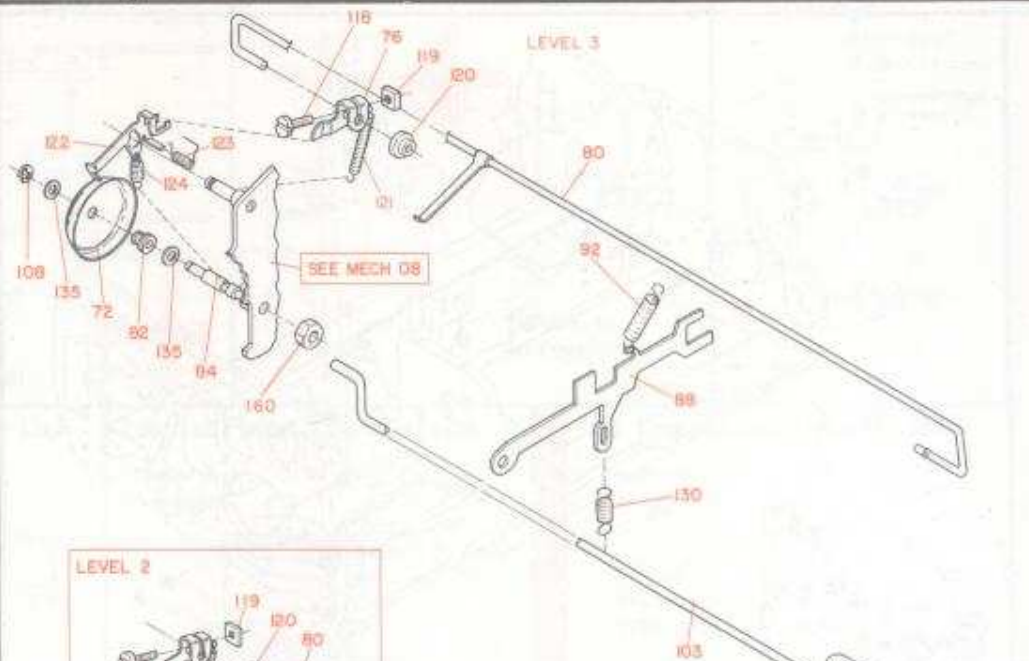
106 - B/M CARRIER POINTER 7XX
125 - MARGIN LEVER ASM
126 - B/M MARGIN RACK
133 - B/M MARGIN PIVOT
150 - MARGIN RACK ASM INCL REF 125

MECH. CODE

09

LINELOCK & BELL

LEVEL 3

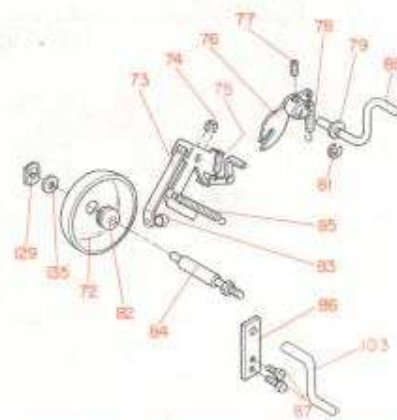


SEE MECH DS

LEVEL 2



LEVEL 1



LEVEL 2 KEYBOARD LOCK

(34-B/M) BELLEFINGER
BELLERANK

EARLY LEVEL KEYBOARD
LOCK/OBSCLETE PARTS
NOT REFERENCED



MARGINS
(RB/S)MECH. CODE
10

DUAL PITCH

SELECTRIC III

48-B/M DUAL PITCH MARGIN RAIL ASM

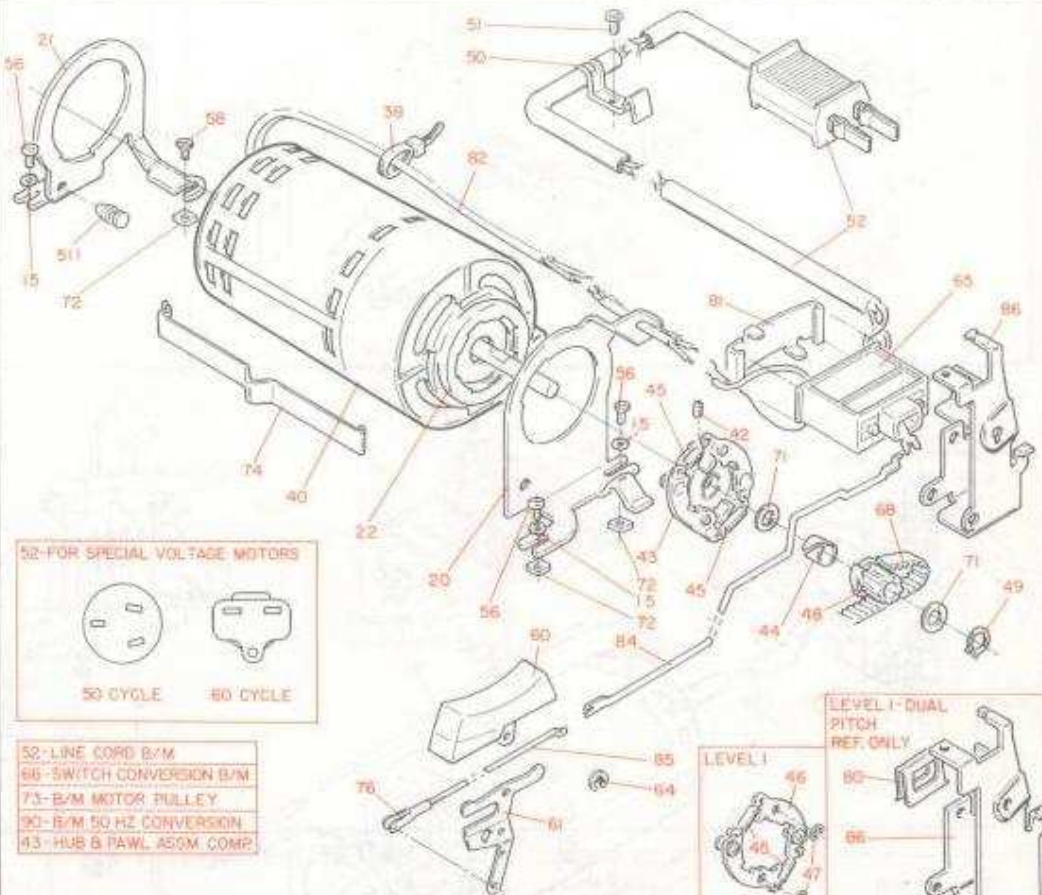
SELECTRIC III

SEE MECH. 03

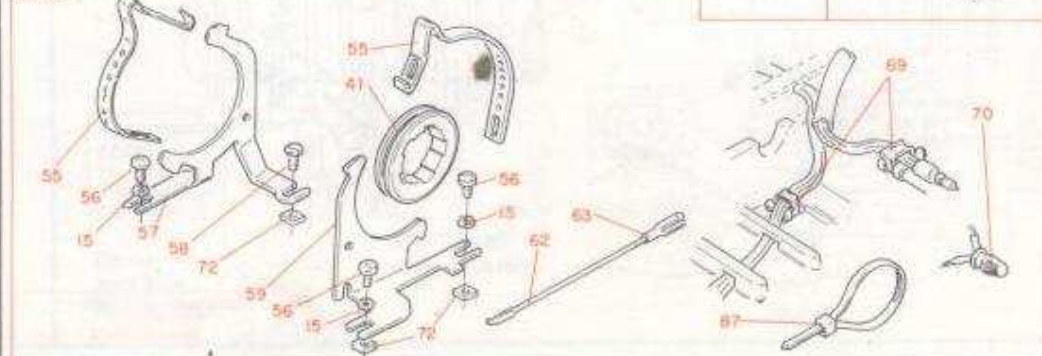
OBSOLETE

SINGLE PITCH

47-B/M MARGIN RAIL ASM

U.S. MOTOR & DRIVE
(SHADED POLE)MECH. CODE
11

LEVEL I

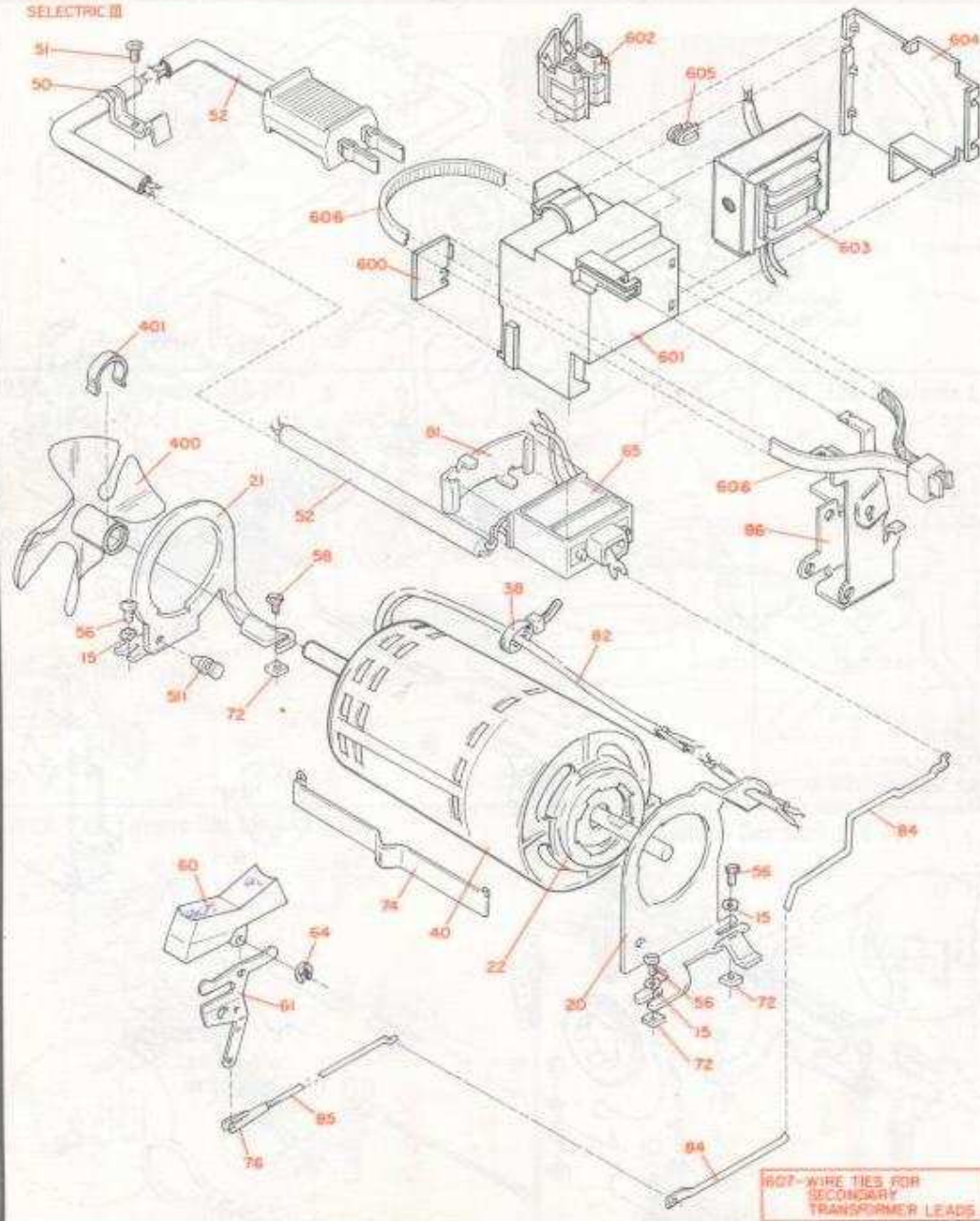


MECH. CODE

11

U.S. MOTOR & DRIVE (SHADED POLE)

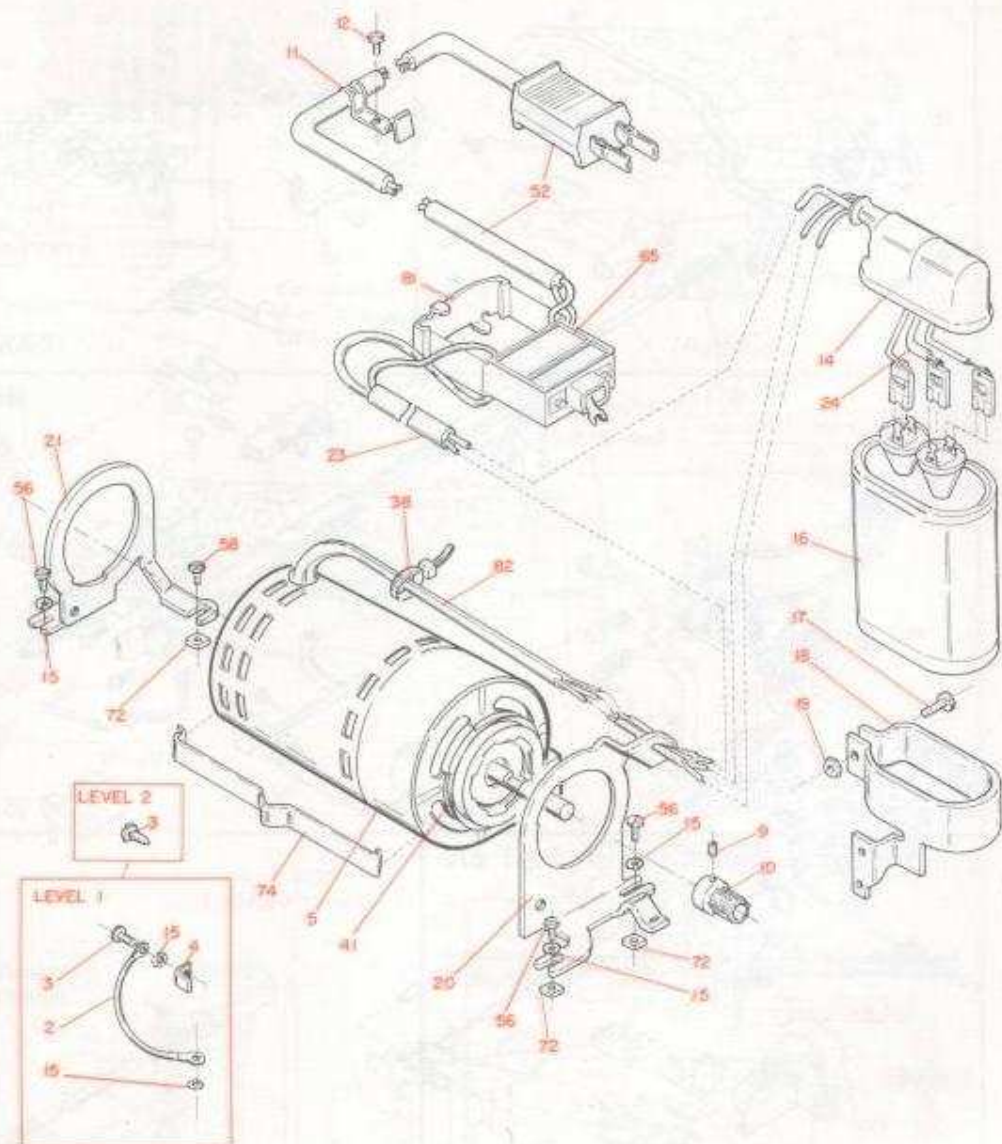
SELECTRIC III



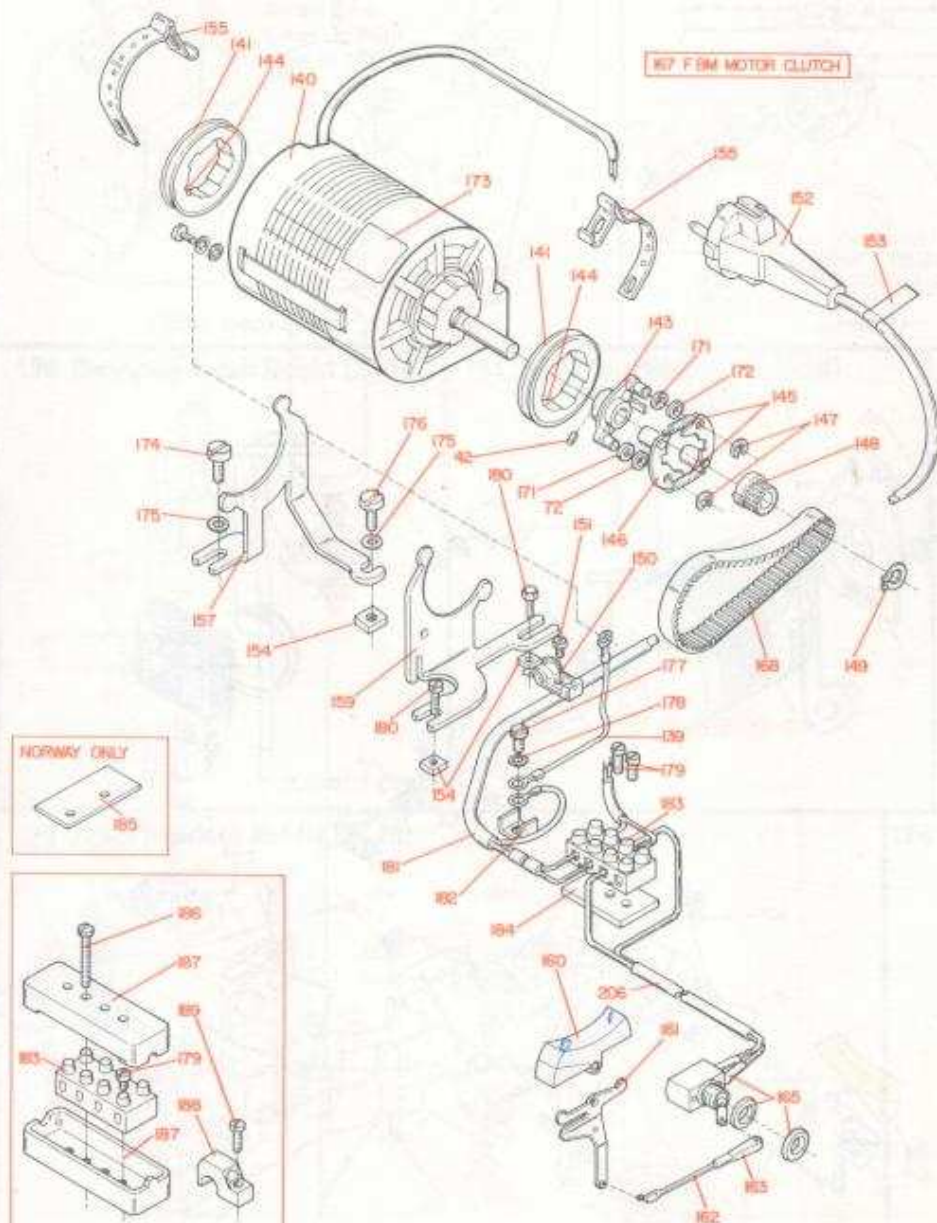
MECH. CODE

11

U.S. MOTOR & DRIVE (CAPACITOR START)

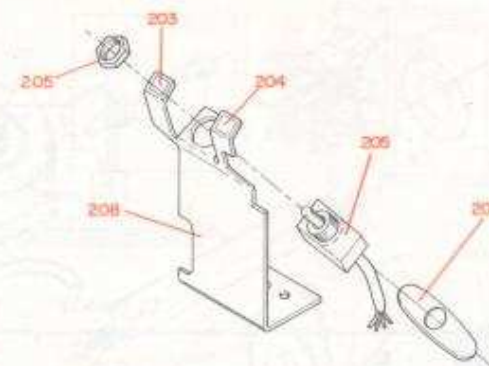
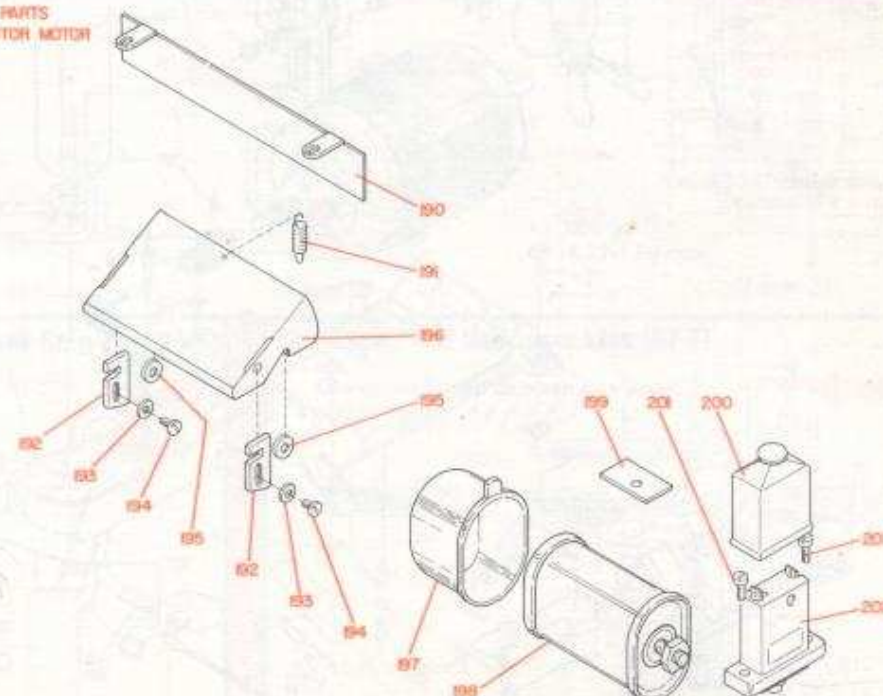


W.T. MOTOR & DRIVE
 (NETHERLANDS – SHADED POLE)

 MECH. CODE
11

W.T. MOTOR
 (NETHERLANDS – FIELD USE PARTS)

 MECH. CODE
11

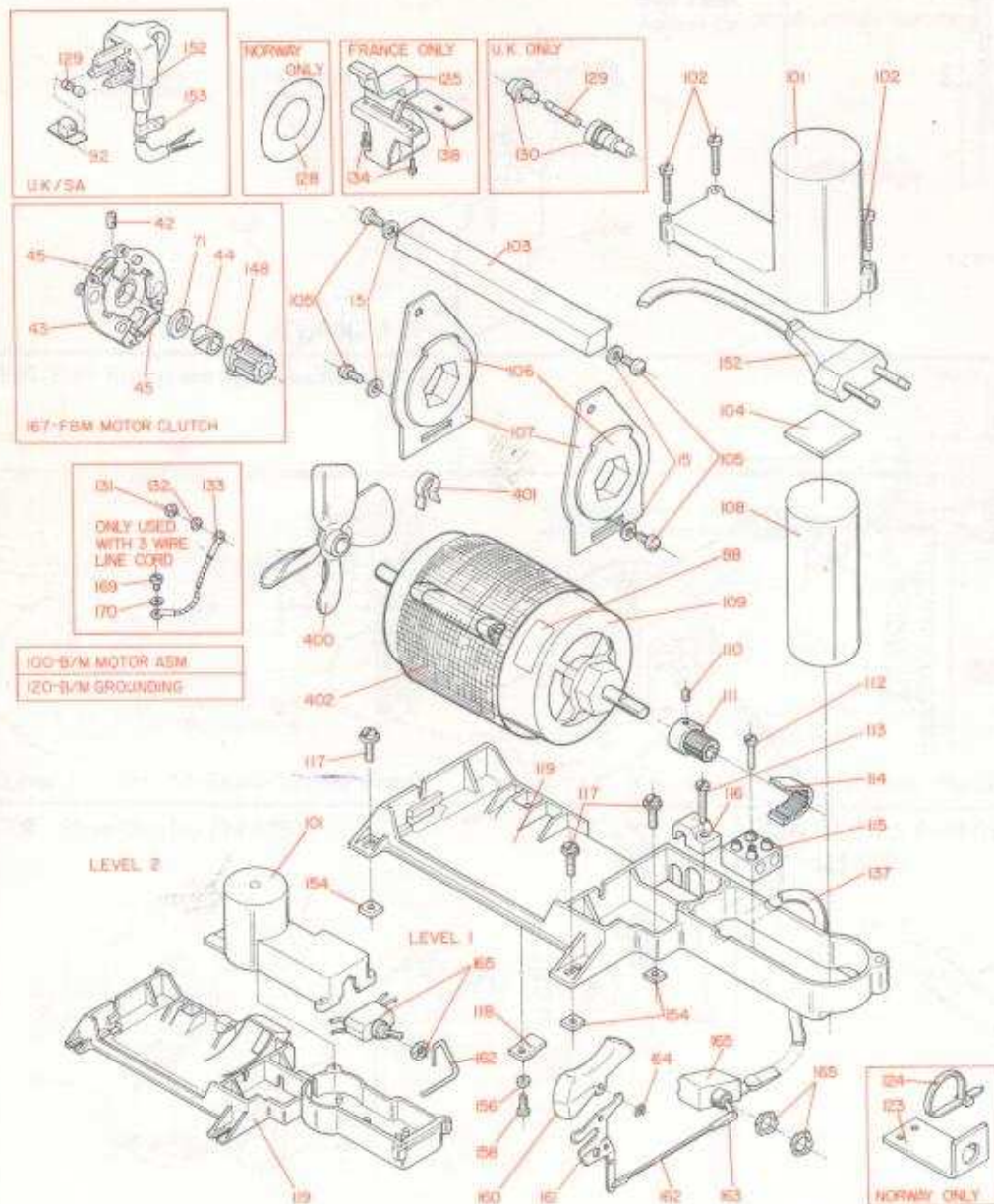
BI-VOLTAGE SWITCH FRANCE

FIELD USE PARTS
FOR CAPACITOR MOTOR

MECH. CODE

11

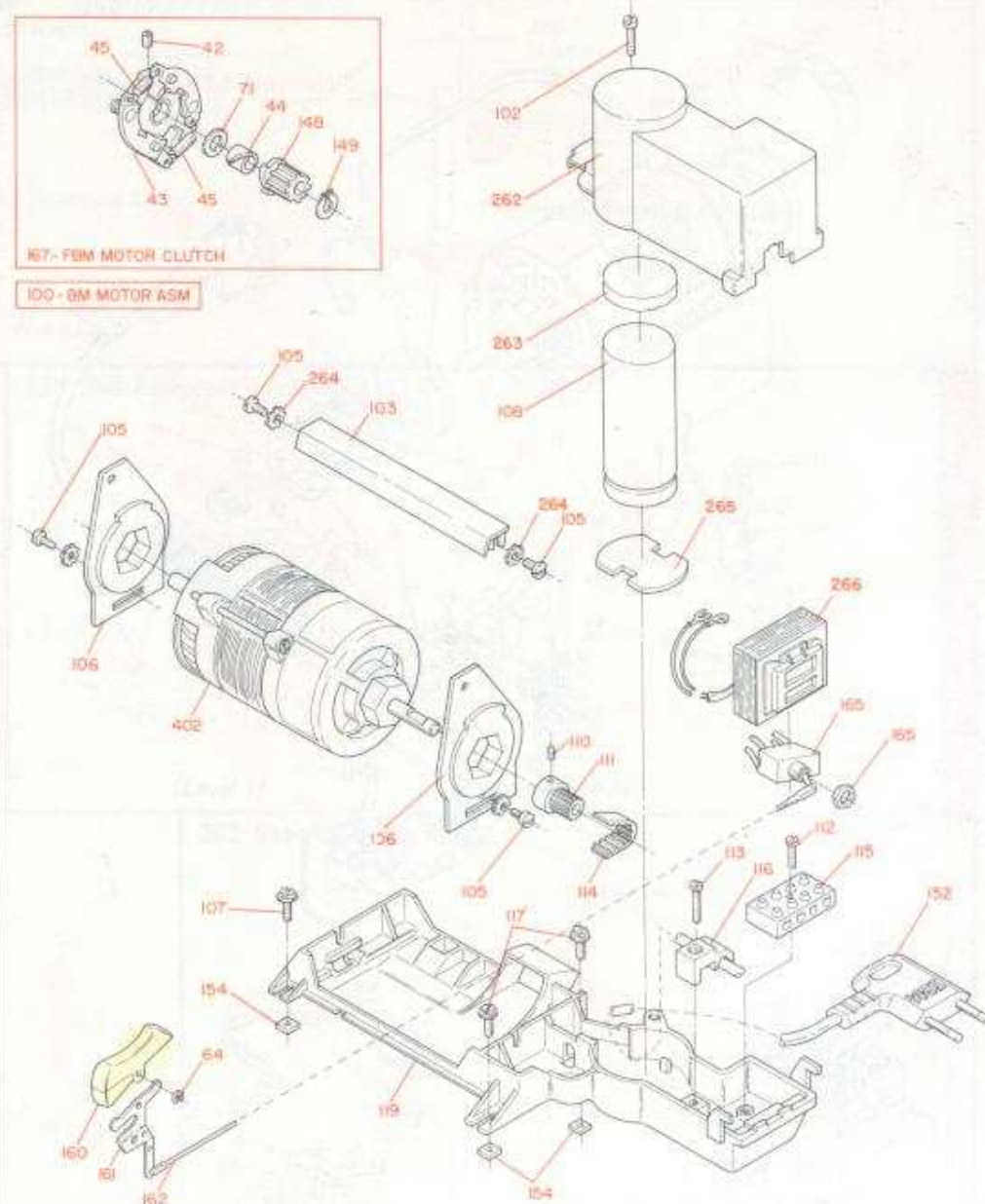
W.T. MOTOR & DRIVE
(NETHERLANDS – DOUBLE INSULATION)



MECH. CODE

11

W.T. MOTOR & DRIVE

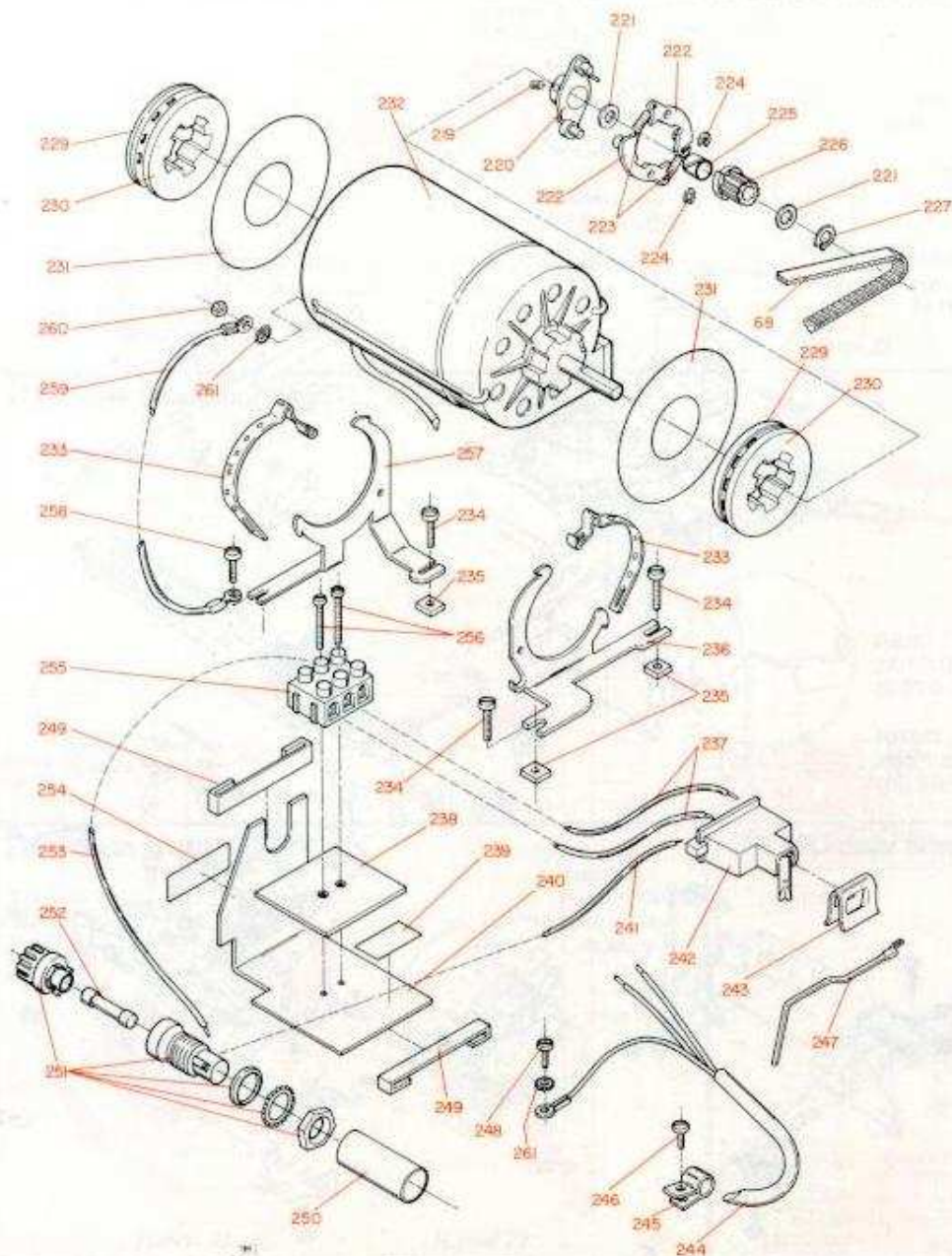


W.T. MOTOR & DRIVE

(CANADIAN - SHADED POLE)

MECH. CODE

11

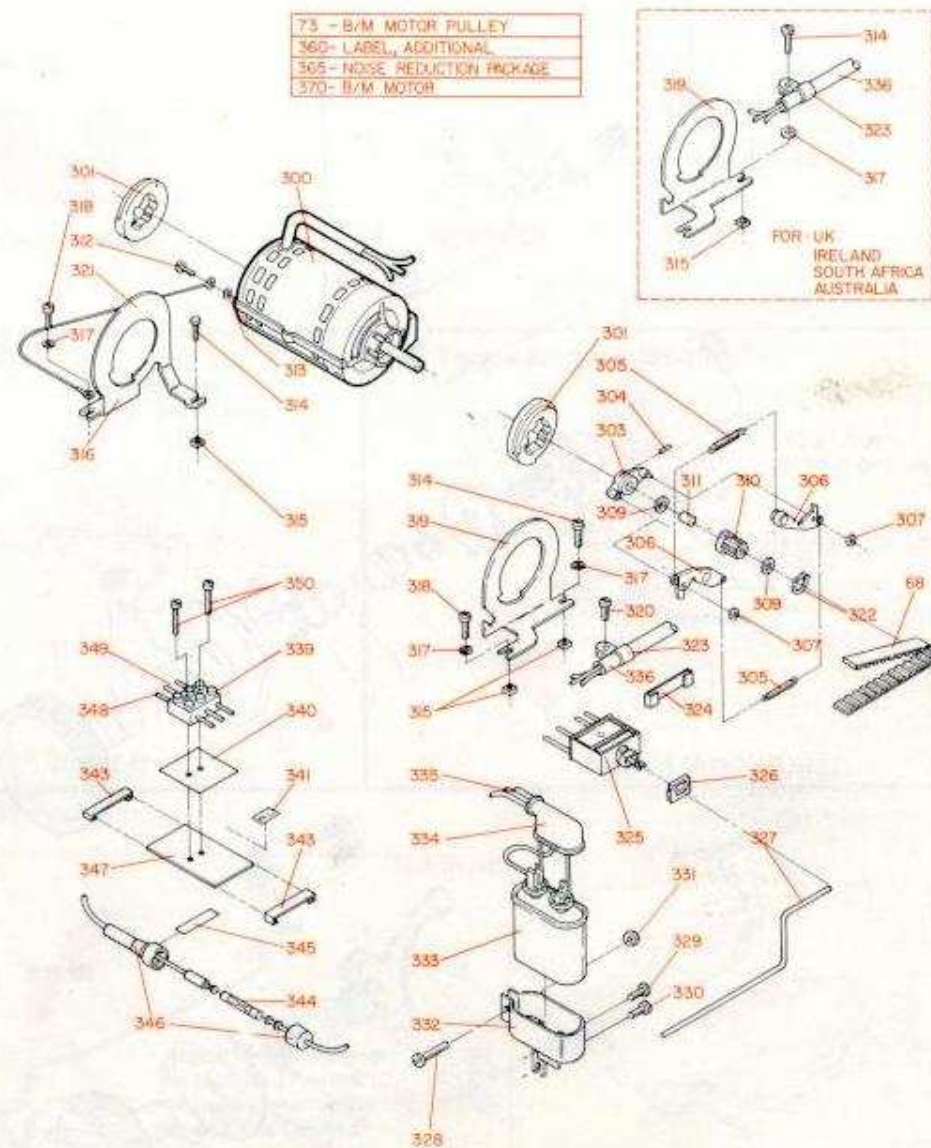


W.T. MOTOR & DRIVE

(CANADIAN - DOUBLE INSULATION)

MECH. CODE

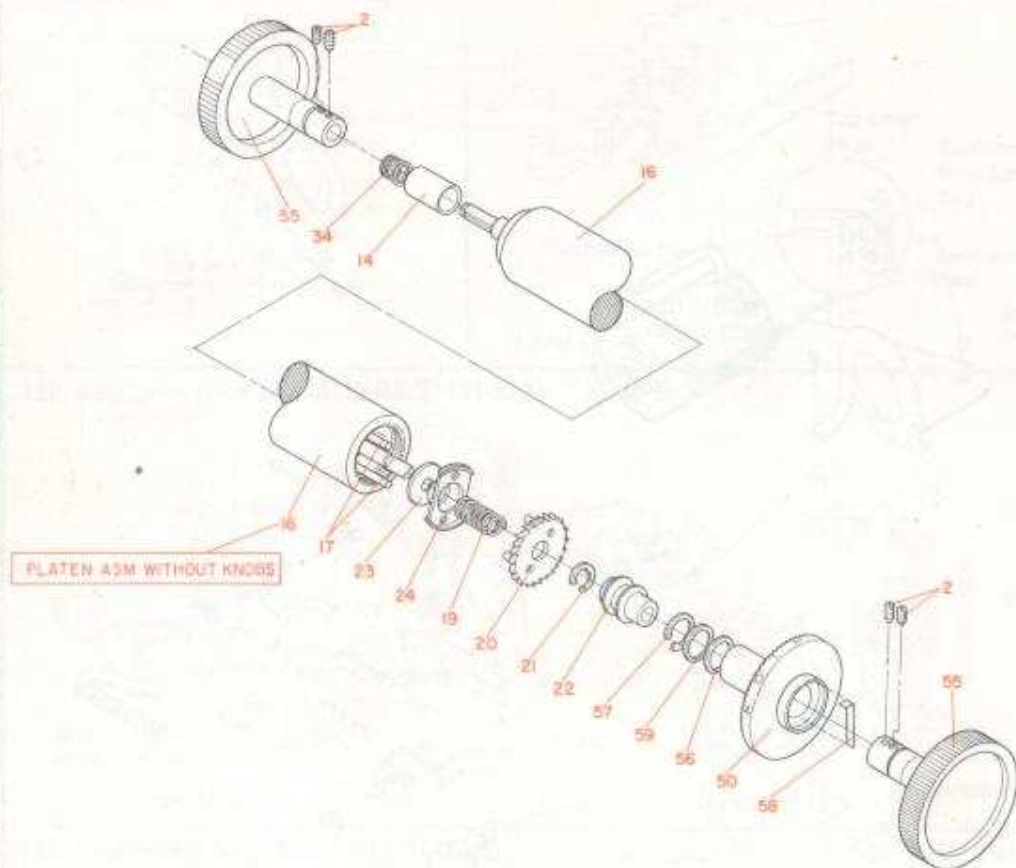
11



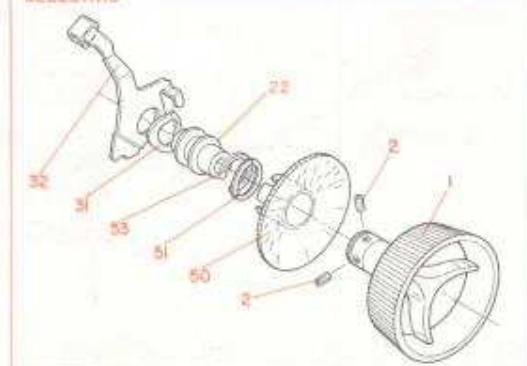
MECH. CODE

12

PLATEN



"SELECTRIC"



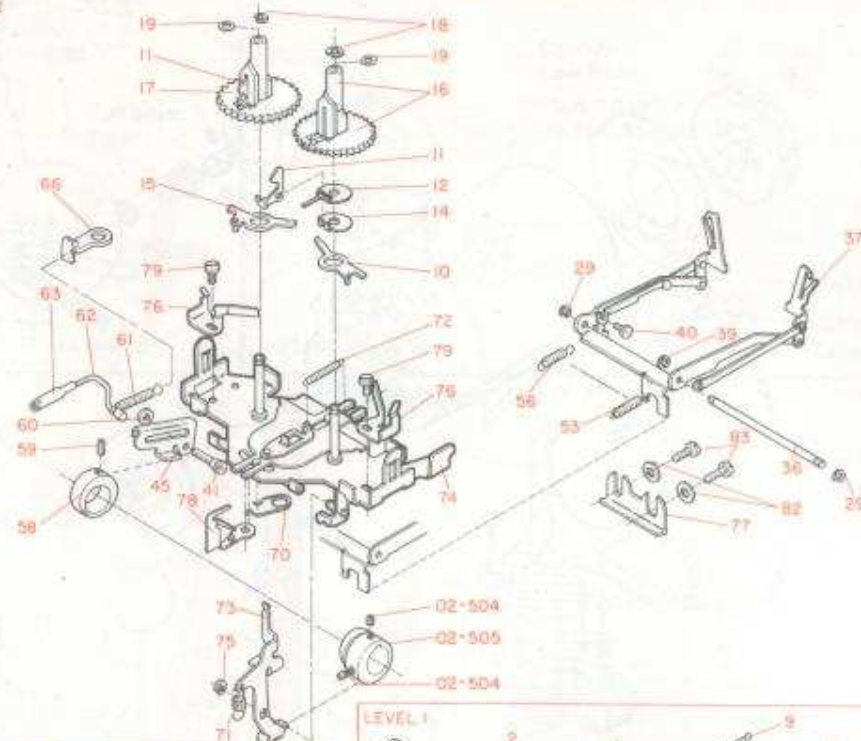
- 25 B/M 24T RATCHET CONVERSION
- 30 B/M 54T RATCHET
- 53 B/M LINE POSITION RESET LEVER

MECH. CODE

13

FABRIC RIBBON

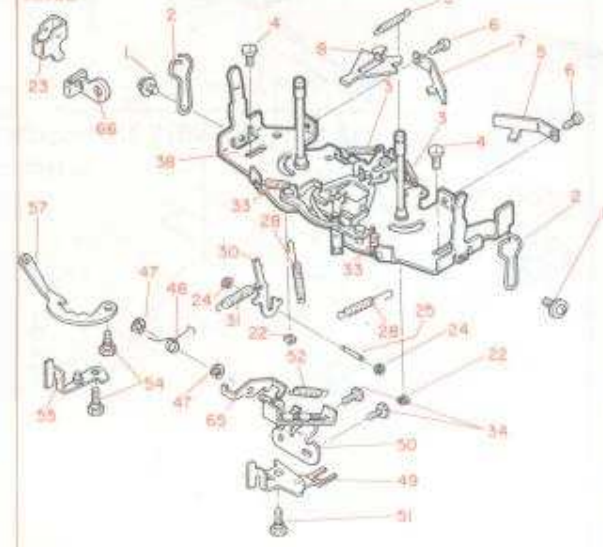
LEVEL 2



- 64-LEVEL 1 RIBBON FEED ASM
- 80-LEVEL 2 RIBBON FEED ASM
- 91-B/M STENCIL LOCKOUT
- 02-130-B/M CARRIER & ROCKER ASM 7/84 X
- WITH EXTERNAL RIBBON CONTROL
- 02-130-B/M CARRIER & ROCKER FAB RIB COMB



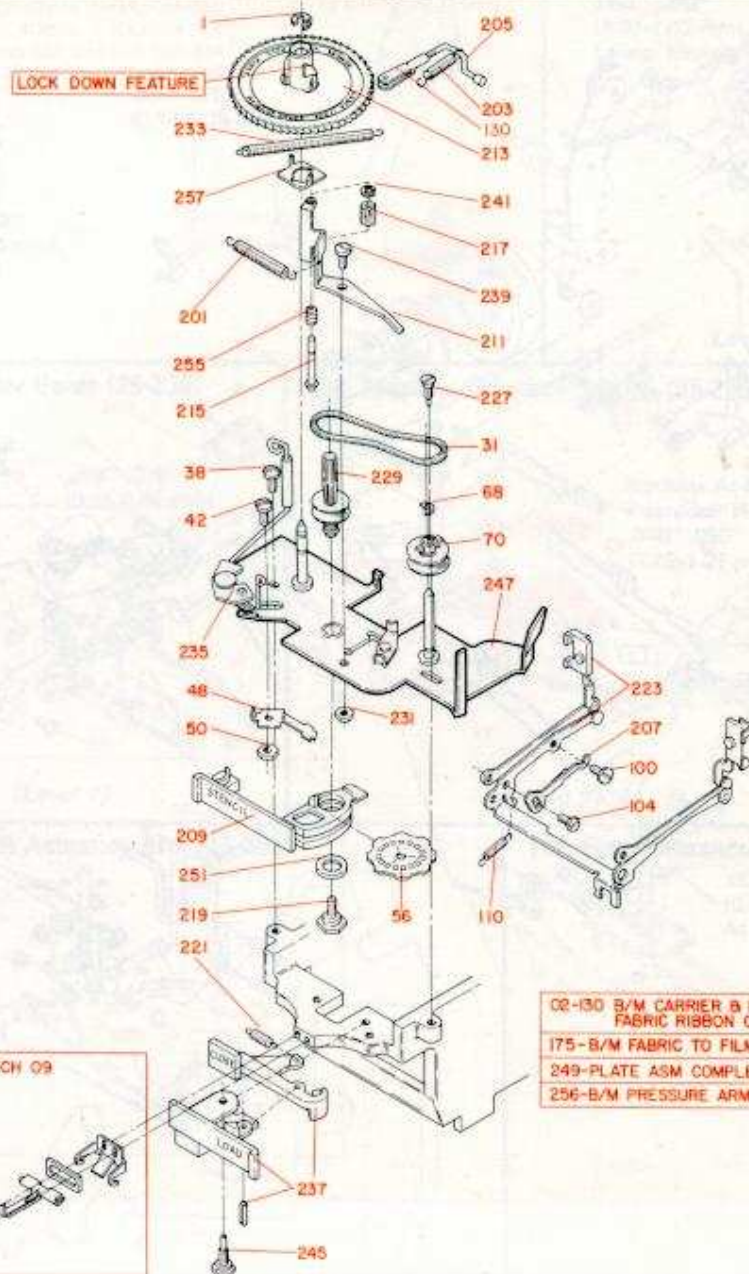
LEVEL 1



FILM RIBBON

MECH. CODE

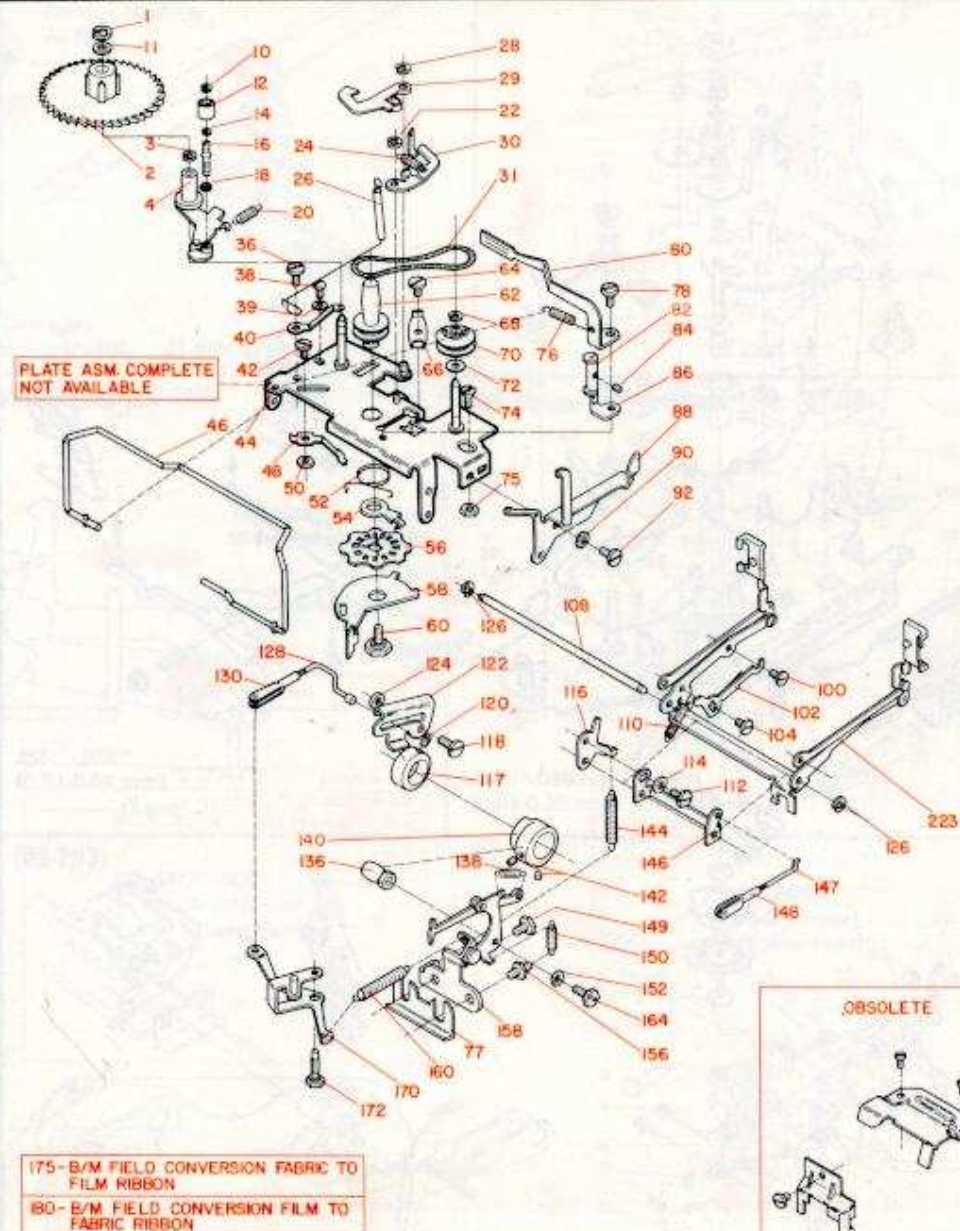
14



FILM RIBBON

MECH. CODE

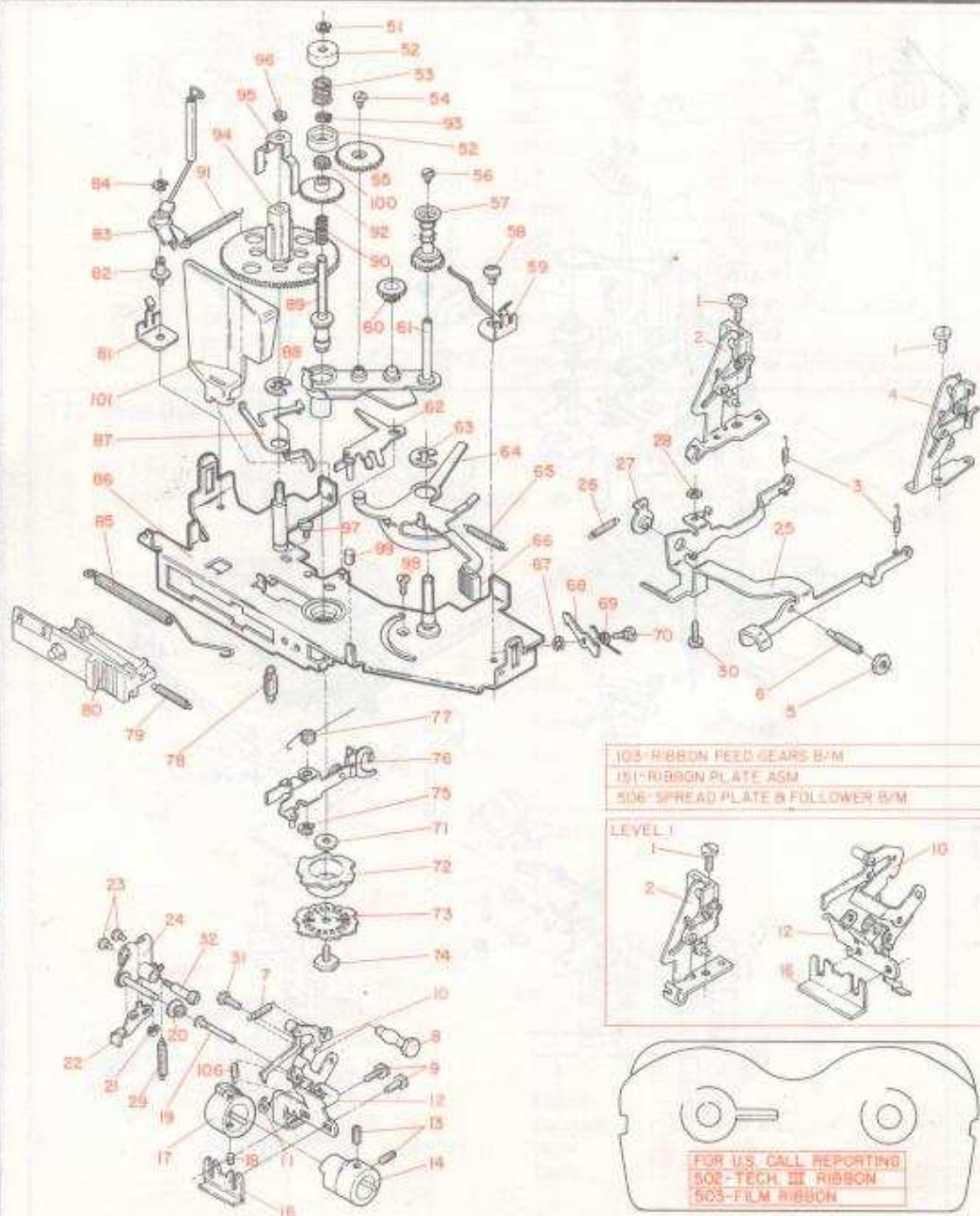
14



MECH. CODE

15

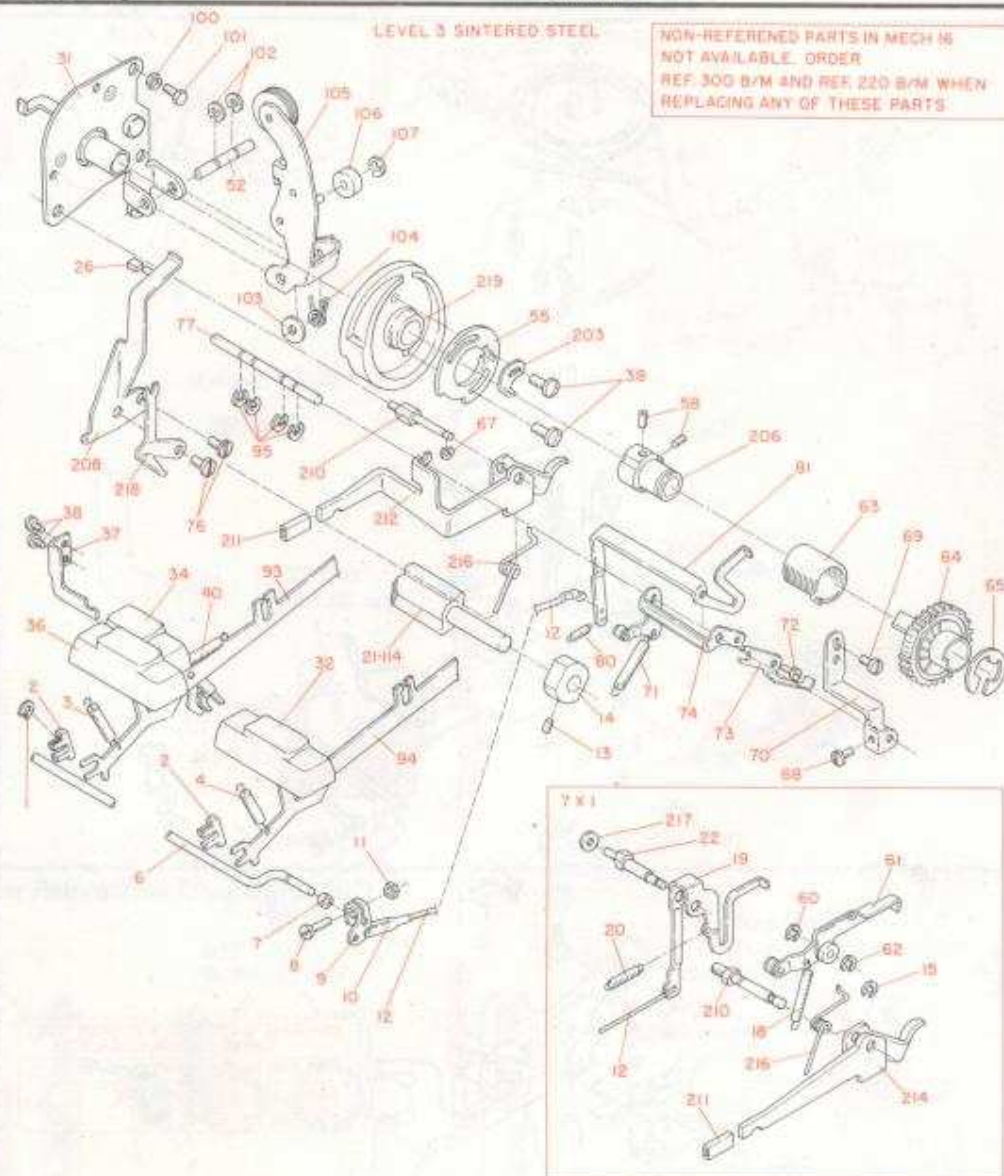
SELECTIVE RIBBON



MECH. CODE

16

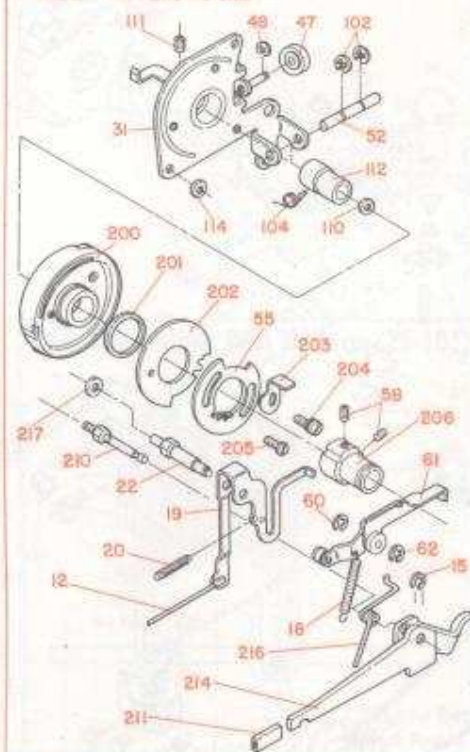
SHIFT



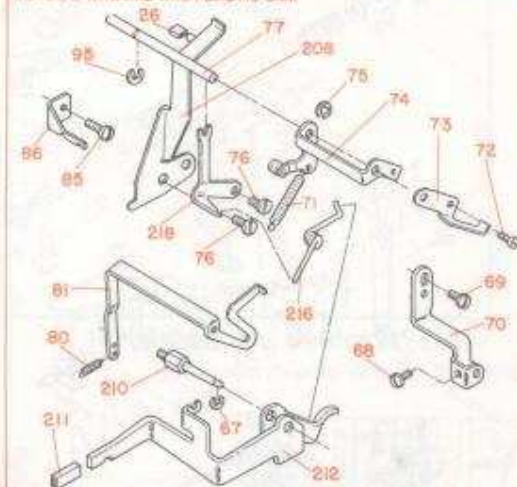
SHIFT

MECH. CODE
16

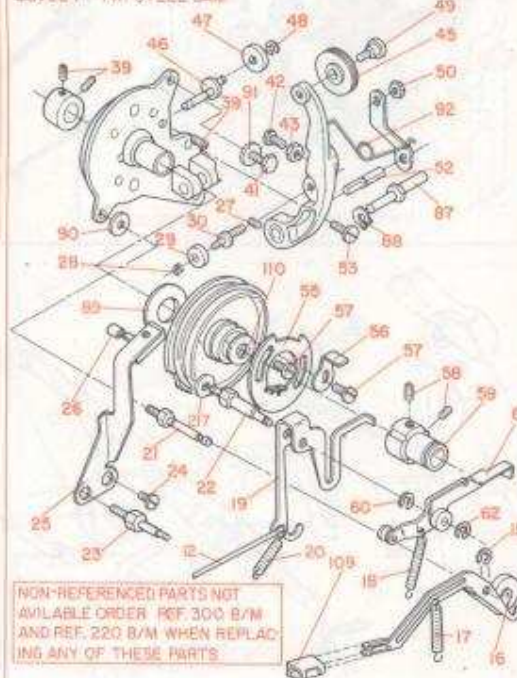
LEVEL 2 7X1 PLASTIC CAM



LEVEL 2 XX3 AND XX5 PLASTIC CAM



LEVEL 1 7X1 STEEL CAM



NON-REFERENCED PARTS NOT
AVAILABLE ORDER REF. 300 B/M
AND REF. 220 B/M WHEN REPLAC-
ING ANY OF THESE PARTS

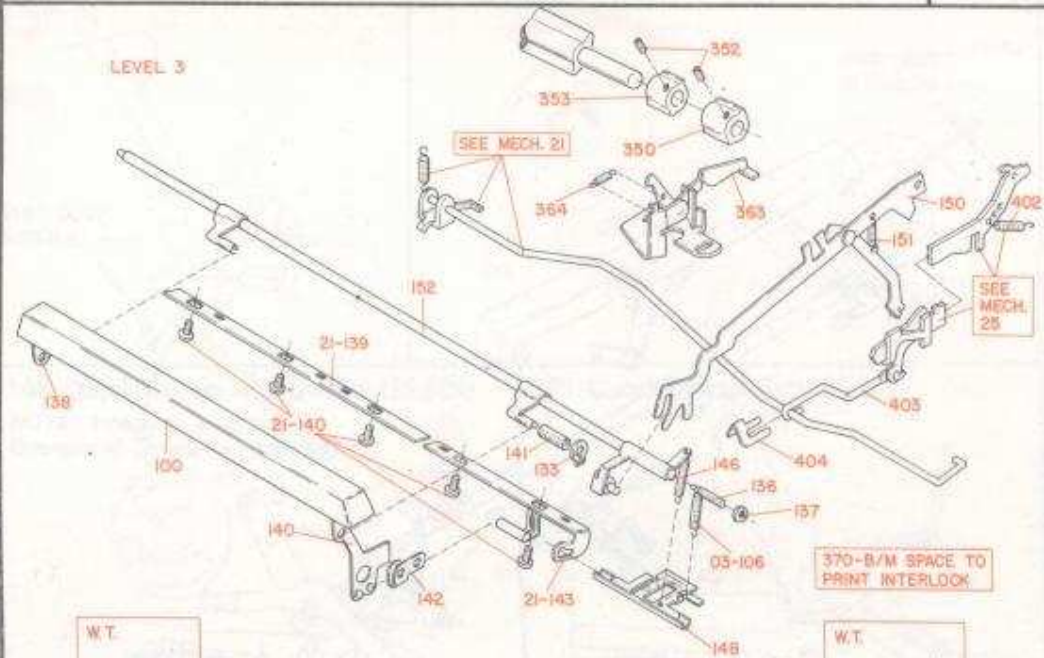
LEVEL 1 XX3 AND XX5 STEEL CAM



SPACEBAR

MECH. CODE
17

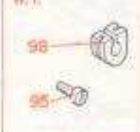
LEVEL 3



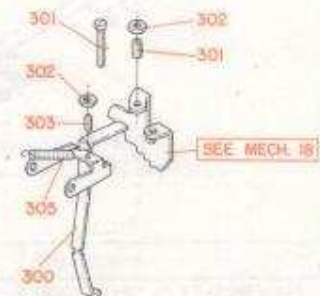
W.T.



W.T.



"SELECTRIC" II TYPEWRITER RB/S

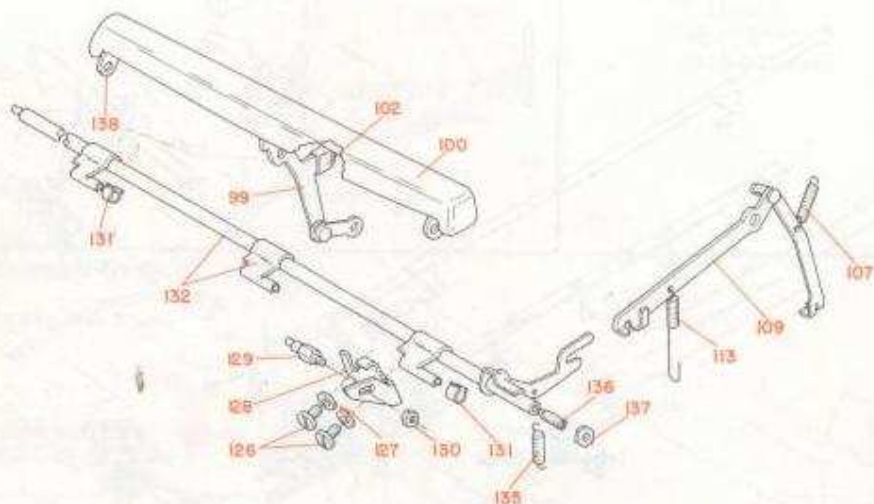


MECH. CODE

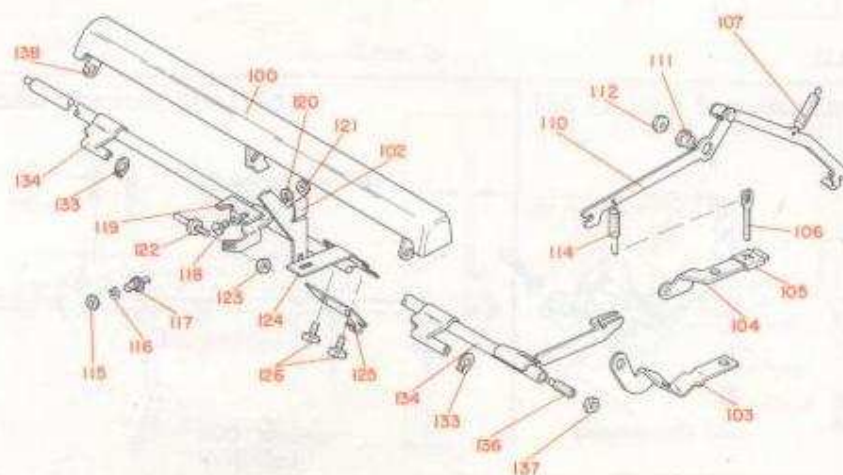
17

SPACEBAR

LEVEL 2

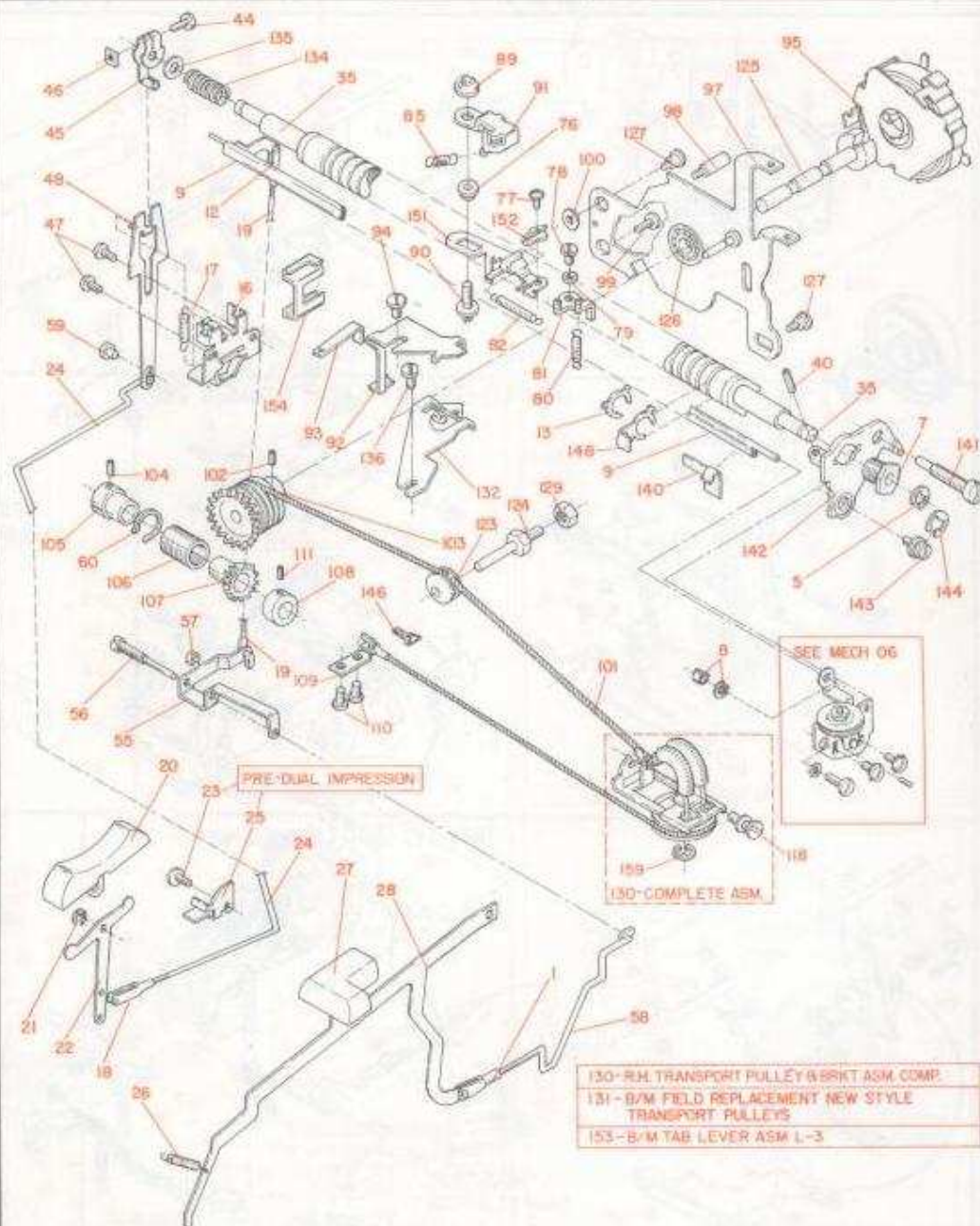


LEVEL 1



MECH. CODE

18

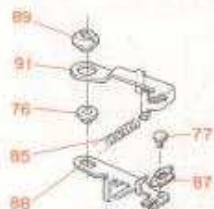
TAB
(NR B/S)

TAB (NR B/S)

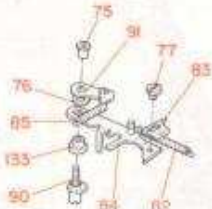
MECH. CODE

18

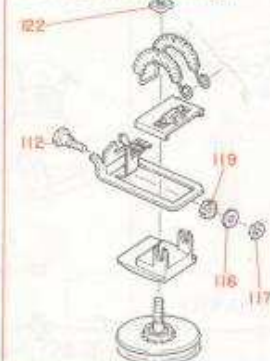
LEVEL 2 TAB LEVER



LEVEL 1 TAB LEVER



TAB PULLEY AND BRACKET



FOR PARTS NOT REFERENCED ORDER
B/M (30-R/M TRANSPORT PULLEY B
BRKT ASM. COMPLETE

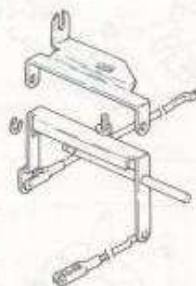
200-B/M TAB KEYLEVER LINE LOCK



7X3-7X5 TAB BELLCRANK LEVEL 1



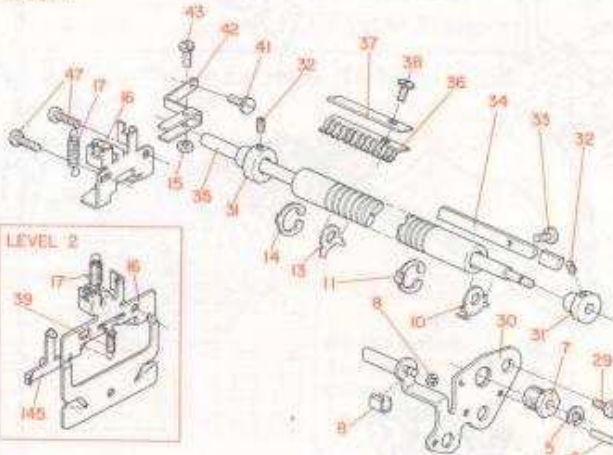
OBSOLETE PARTS - SEE REF 24



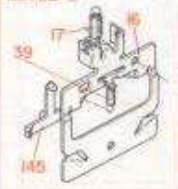
7 X 1



LEVEL 1



LEVEL 2



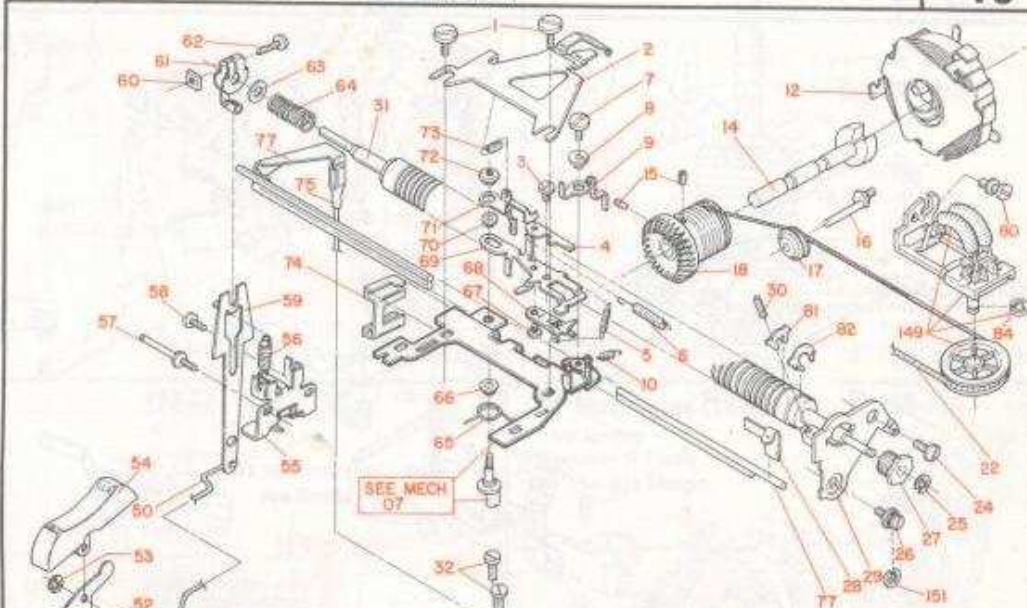
LEVEL 1 ESCAPEMENT SHAFT



TAB (RB/S)

MECH. CODE

19



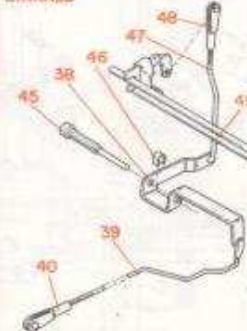
152-B/M CONVERSION FROM ALL
STEEL TO DUAL TRANSPORT

ALL STEEL TRANSPORT

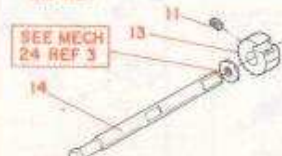


150-B/M TAB LINKAGE AND TORQUE
BAR 8X3-8X5 LEVEL 2
152-B/M CONVERSION FROM ALL
STEEL TO DUAL TRANSPORT

LEVEL 1 TAB TORQUE BAR & LINKAGE

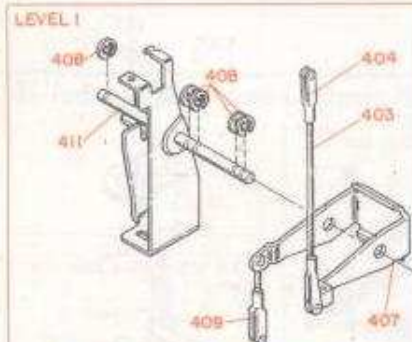
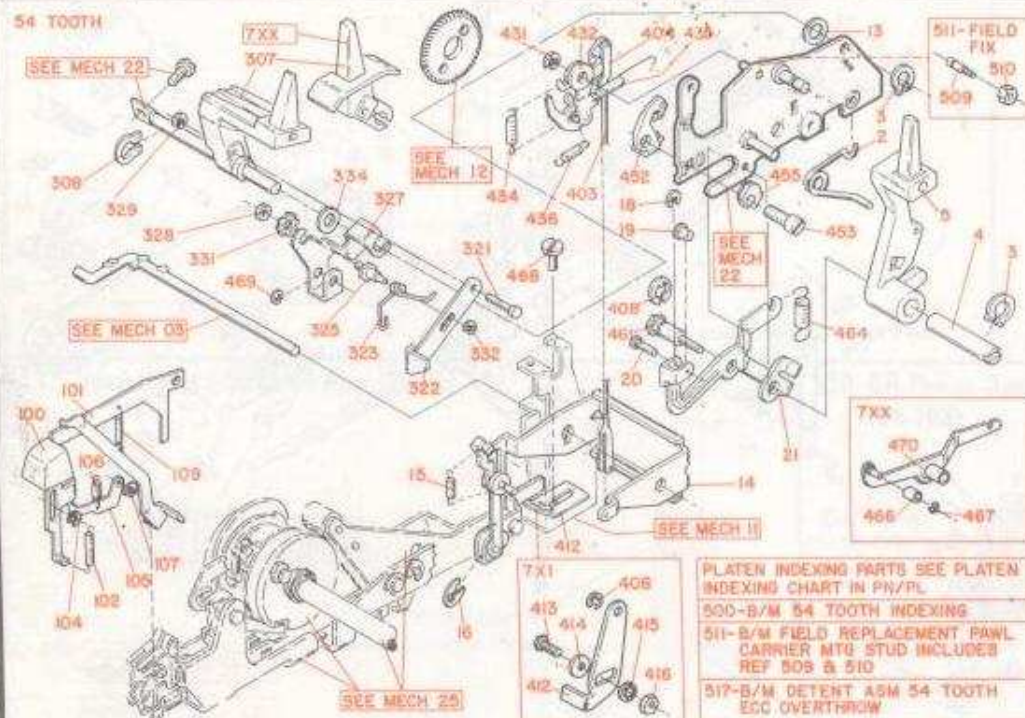


LEVEL 1

8X5 TAB TORQUE BAR LINKAGE
9X5 W.T.

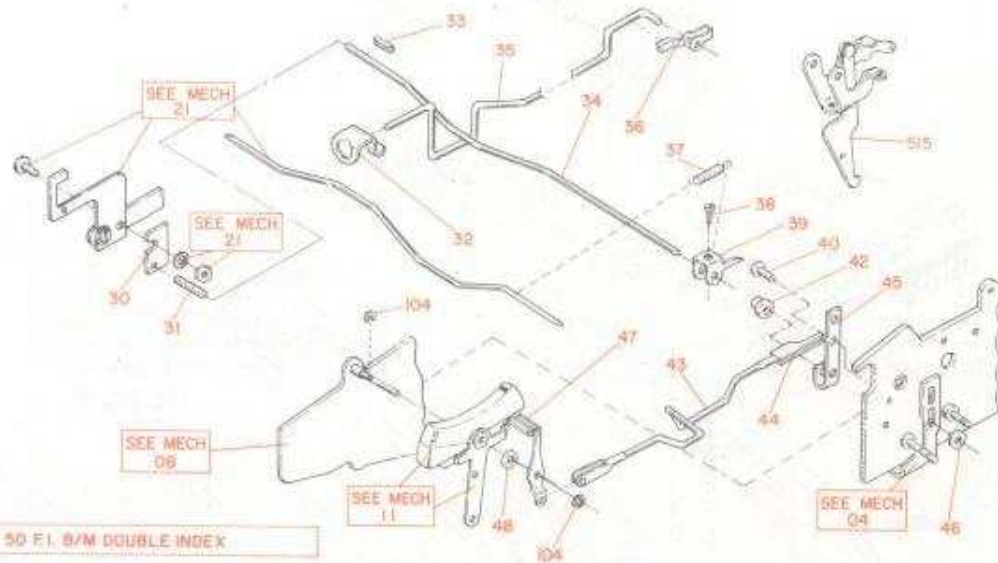
MECH. CODE

20

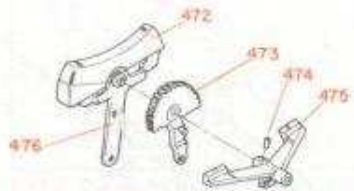
INDEXING
(A-FRAME)

INDEXING
(DOUBLE)

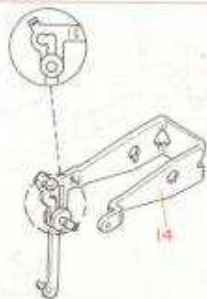
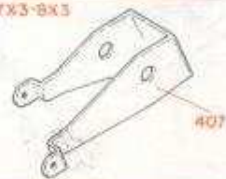
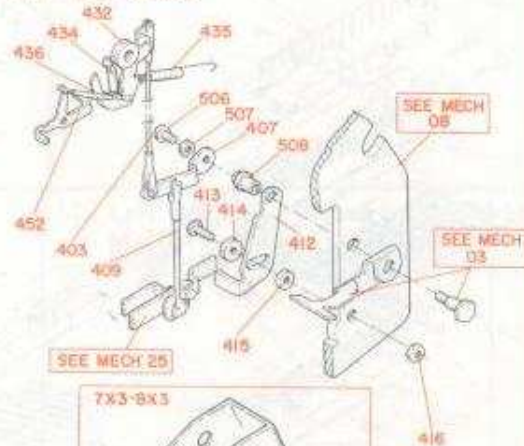
MECH. CODE
20



LEVEL 3



LEVEL 1-2, 2 1/2, 3 LINES



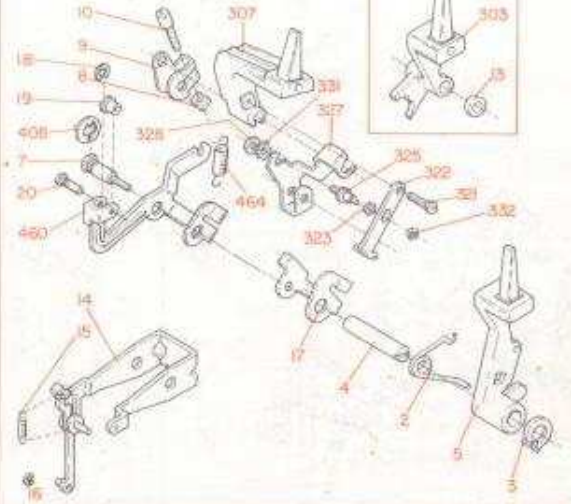
W.T. INDEXING

MECH. CODE
20

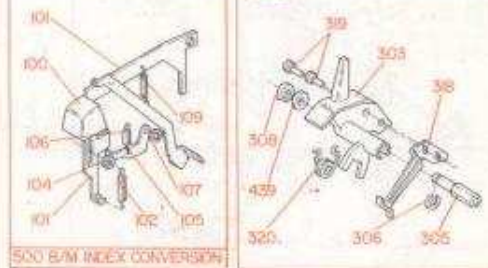
LEVEL:



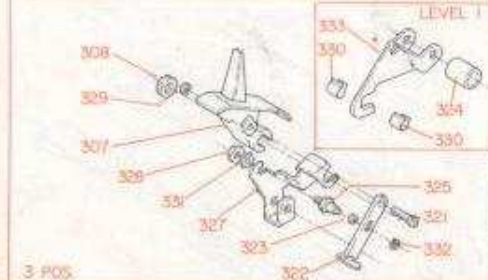
60X 19X X



2 PGS



LEVEL 1

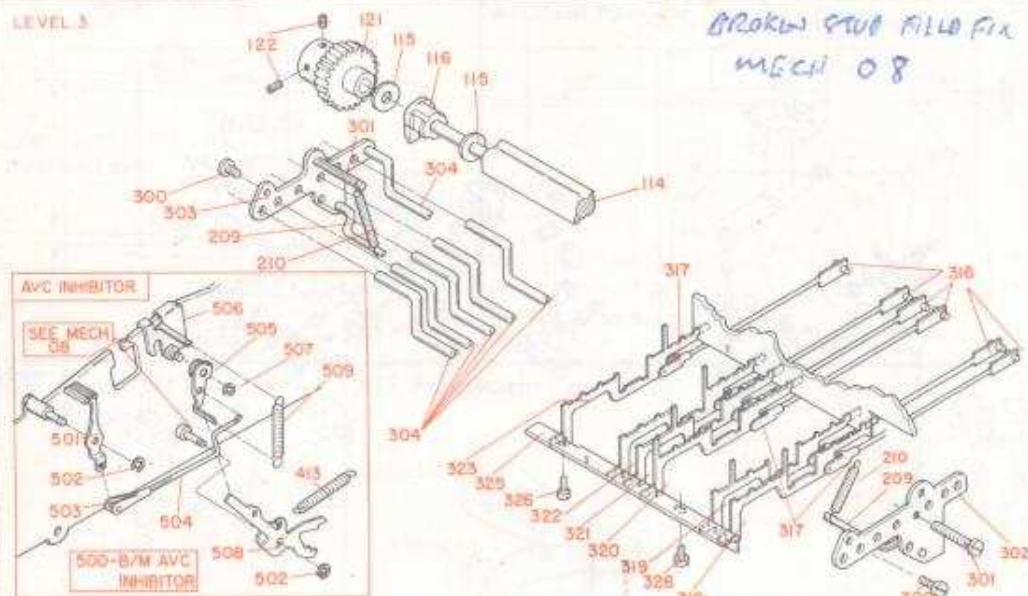


MECH. CODE

21

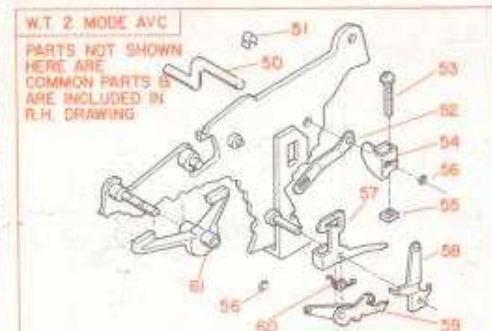
KEYBOARD

LEVEL 3



W.T. 2. MODE AVC

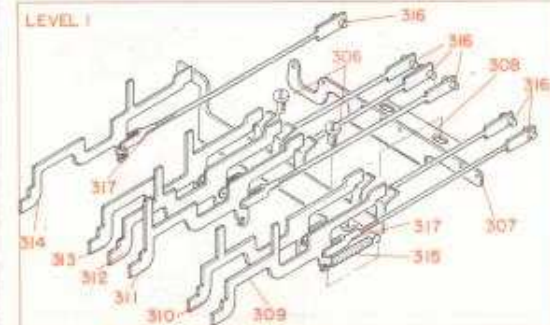
PARTS NOT SHOWN
HERE ARE
COMMON PARTS &
ARE INCLUDED IN
R.H. DRAWING



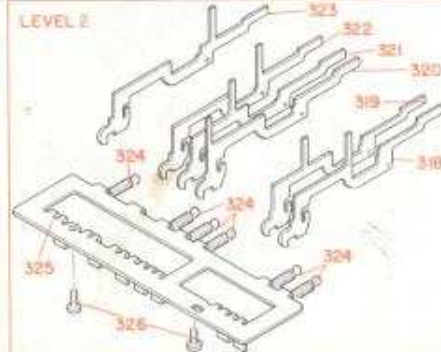
MANUAL VELOCITY CONTROL



LEVEL 1



LEVEL 2

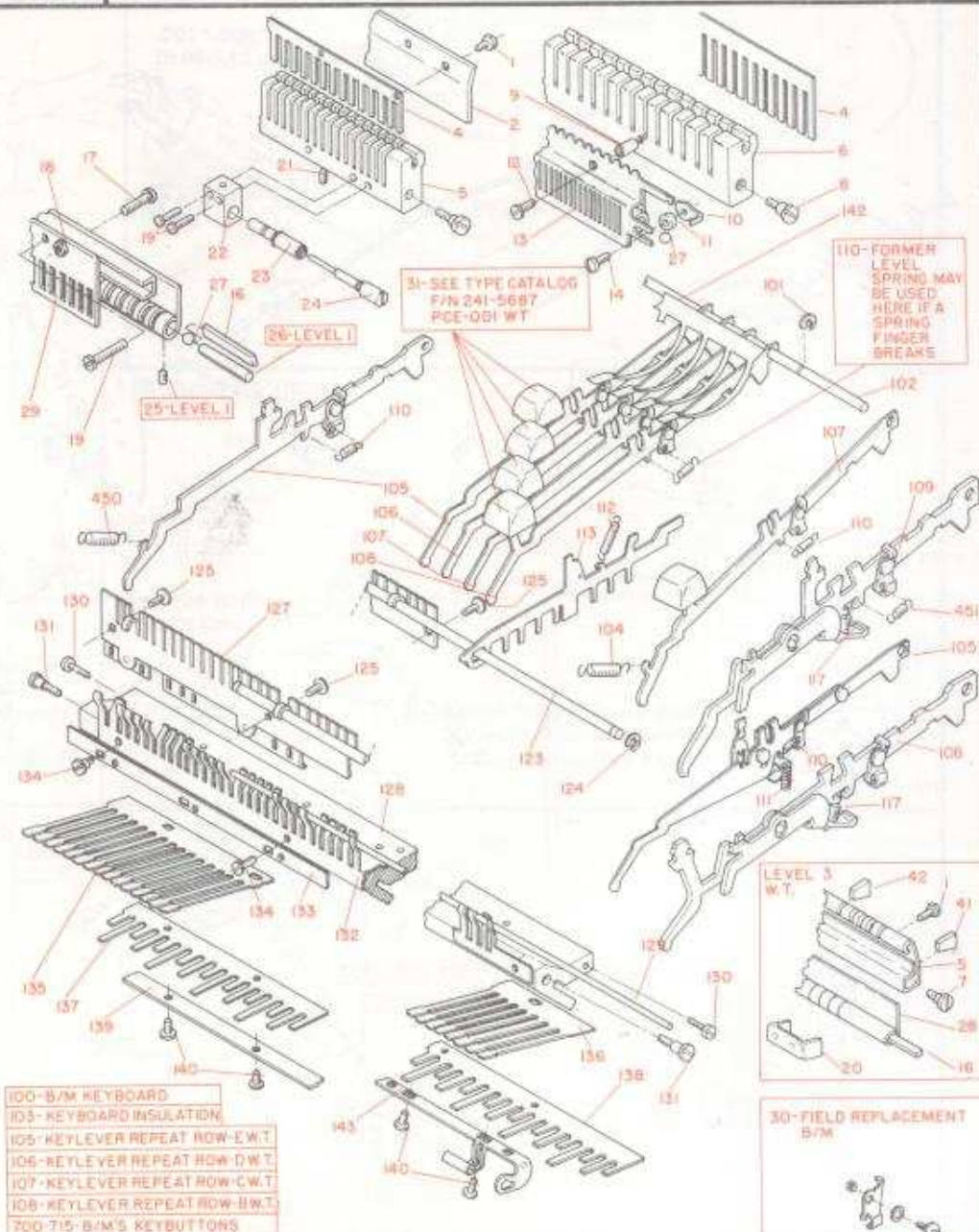


BROKEN STUD FILLER
MECH 08

MECH. CODE

21

KEYBOARD



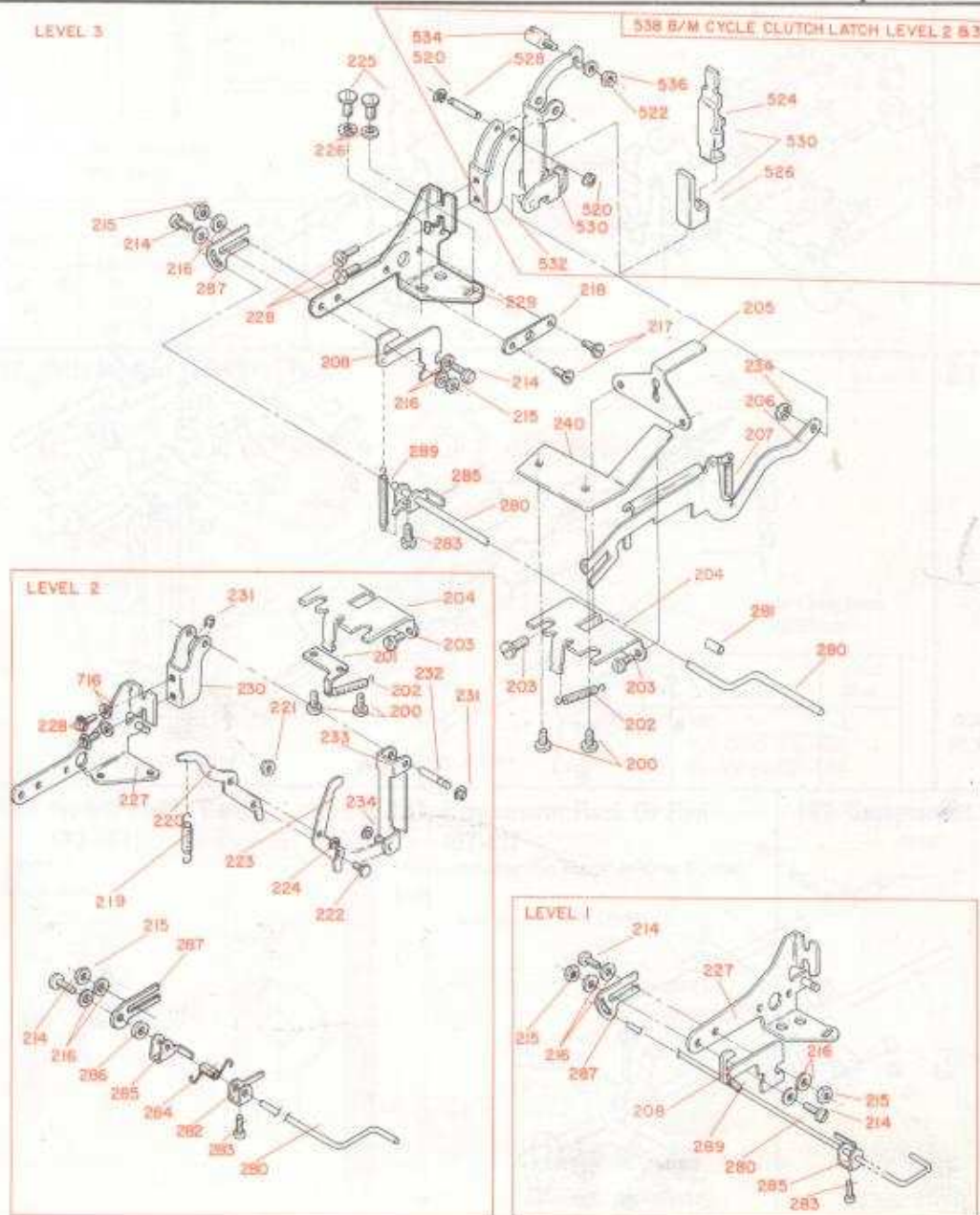
KEYBOARD

MECH. CODE

21

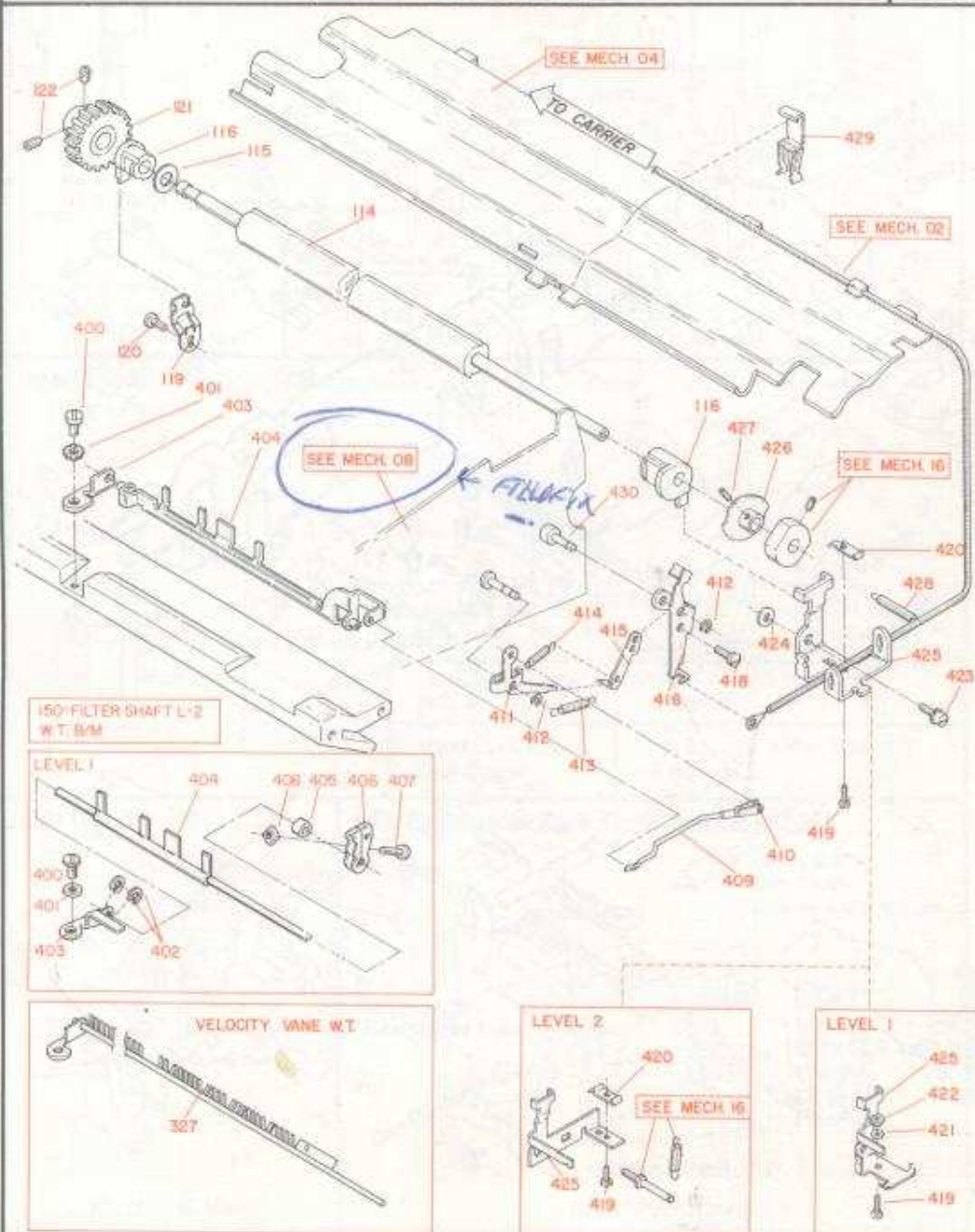
LEVEL 3

538 B/M CYCLE CLUTCH LATCH LEVEL 2 & 3

KEYBOARD
(DUAL IMPRESSION)

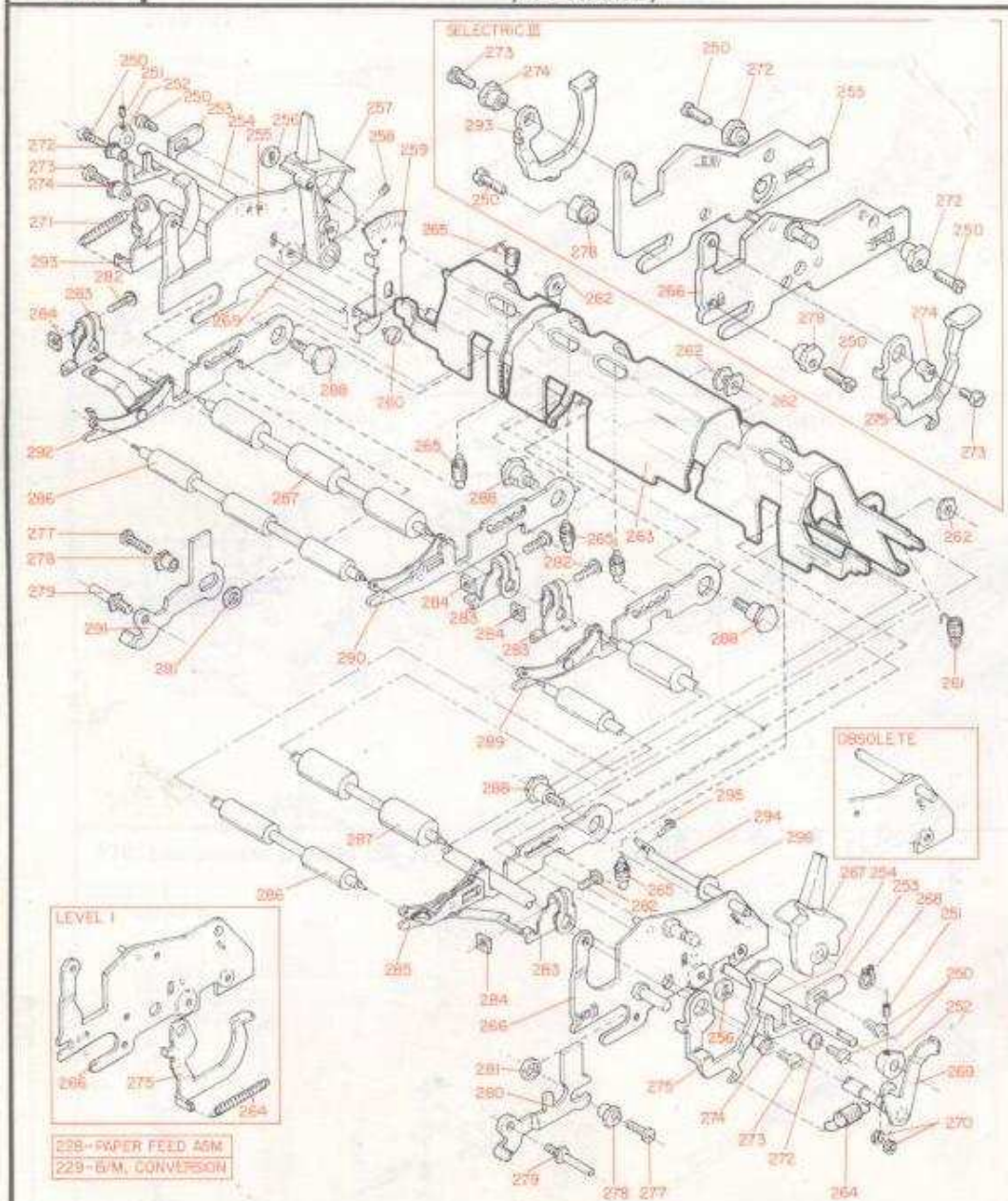
MECH. CODE

21



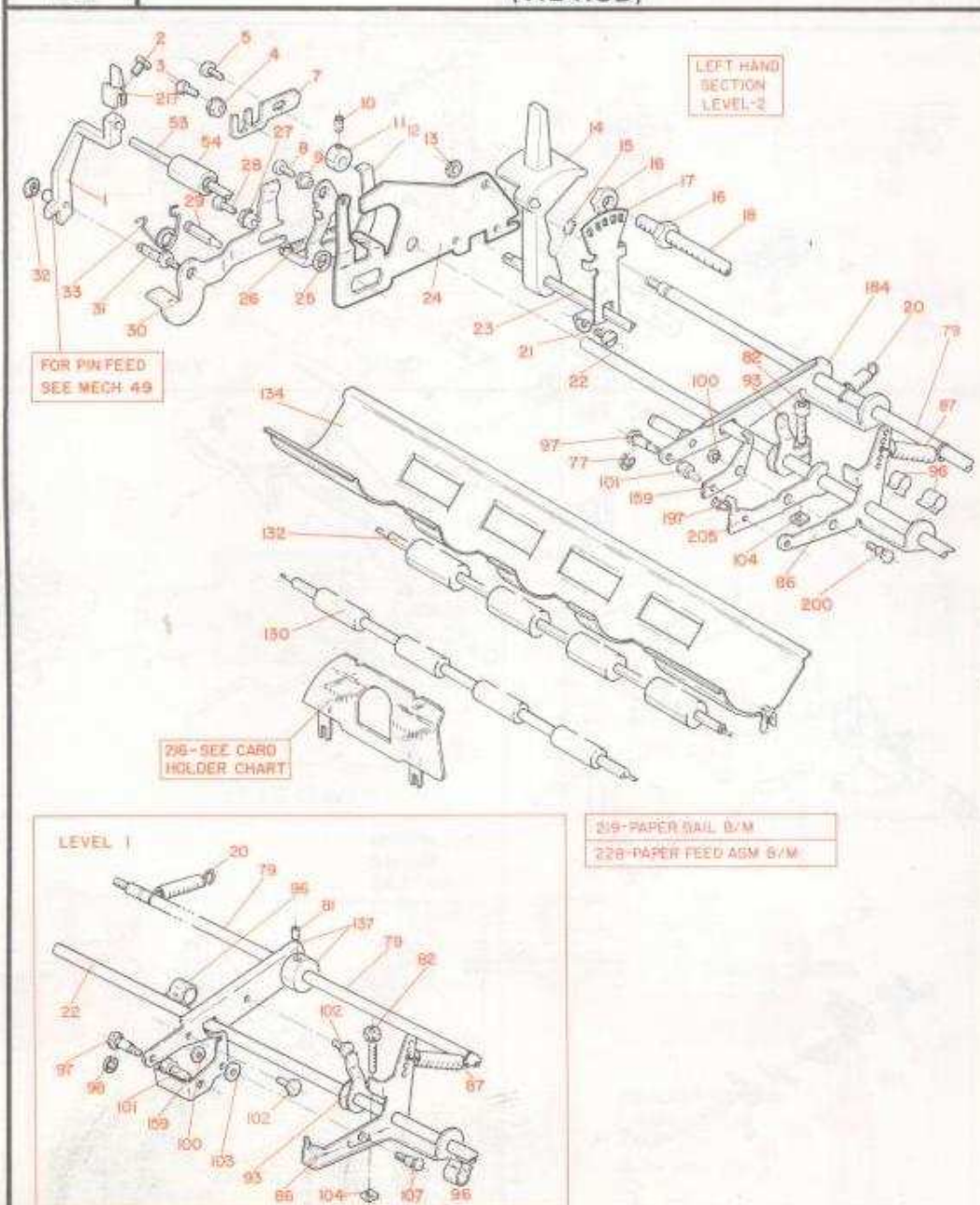
MECH. CODE
22

PAPER FEED (A-FRAME)



MECH. CODE
22

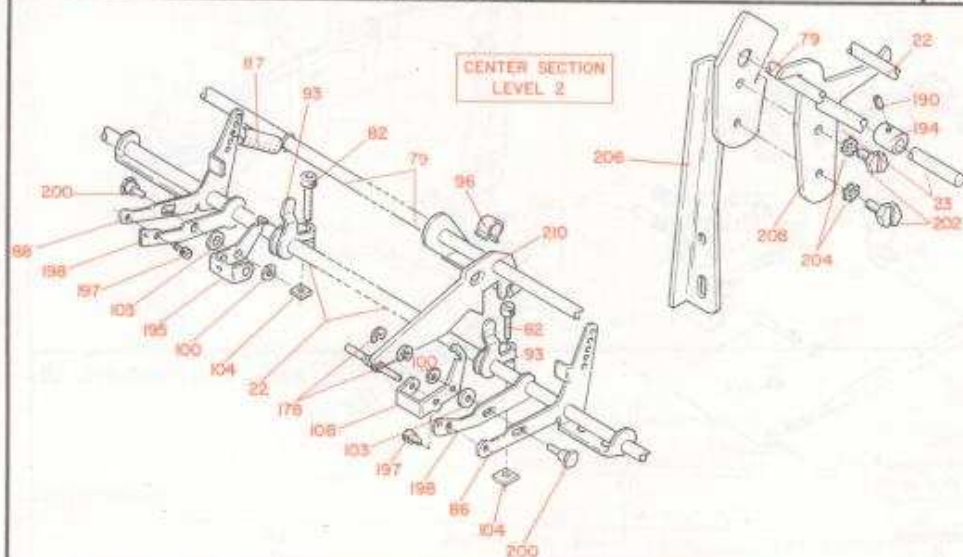
PAPER FEED (TIE-ROD)



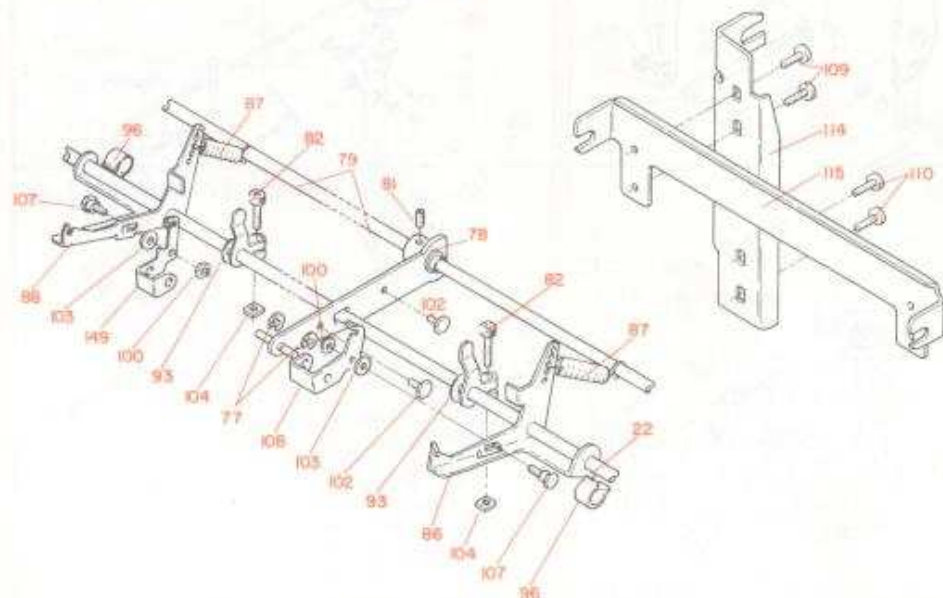
PAPER FEED (TIE-ROD)

MECH. CODE

22

CENTER SECTION
LEVEL 2

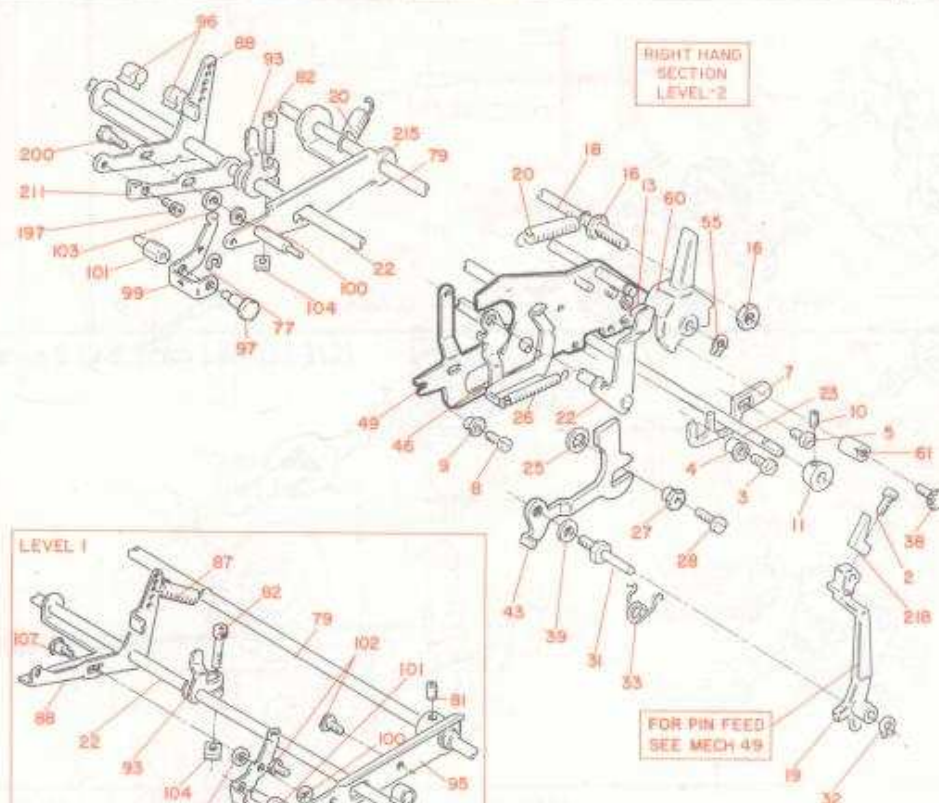
LEVEL 1



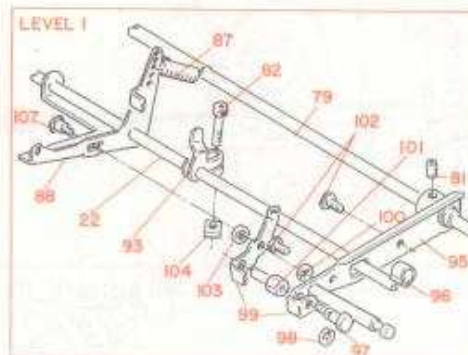
PAPER FEED (TIE-ROD)

MECH. CODE

22

RIGHT HAND
SECTION
LEVEL 2

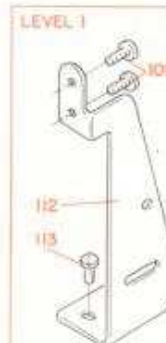
LEVEL 1



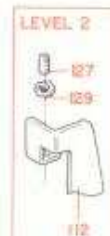
LEVEL 1

LEVEL 1
LONG CARRIAGE

LEVEL 1



LEVEL 2



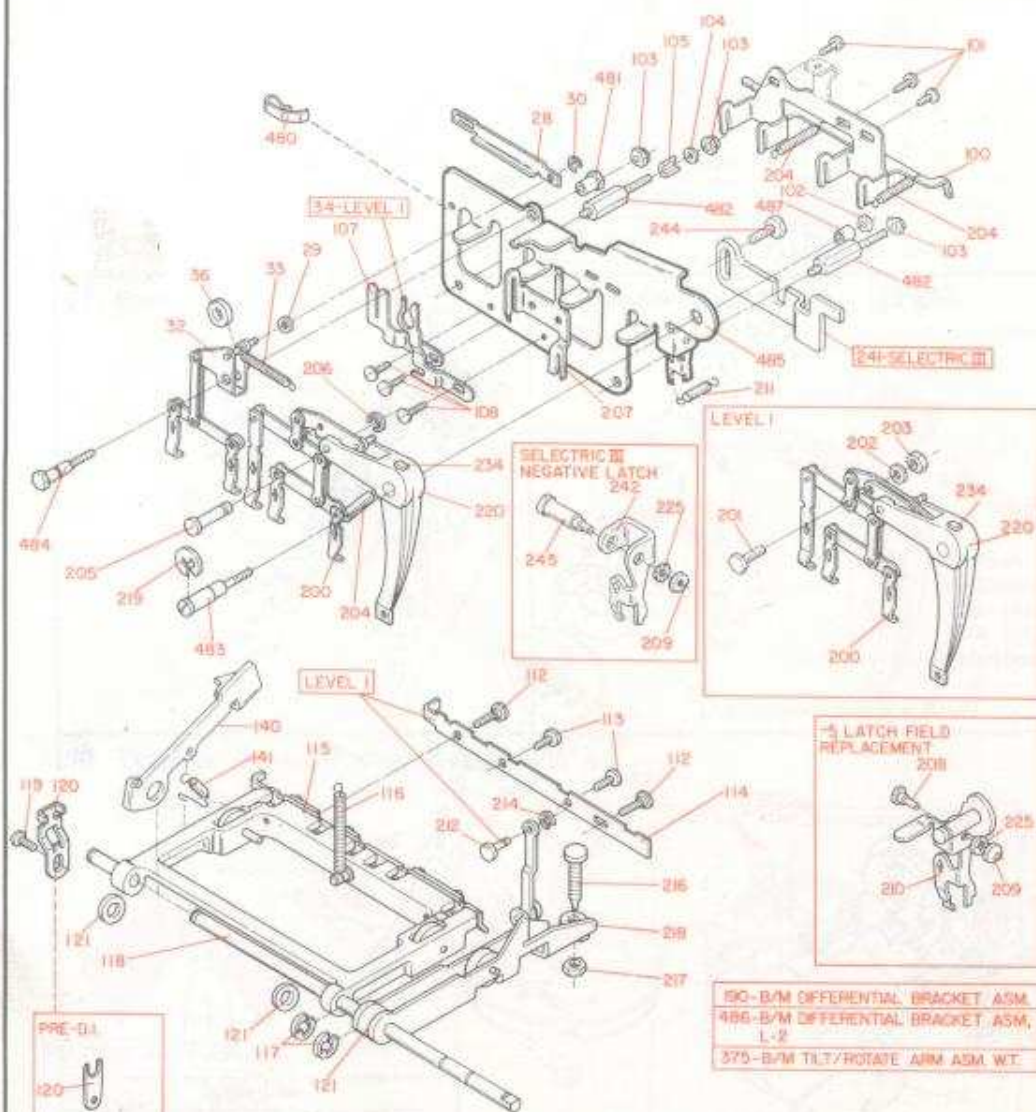
LEVEL 3



SELECTION

MECH. CODE

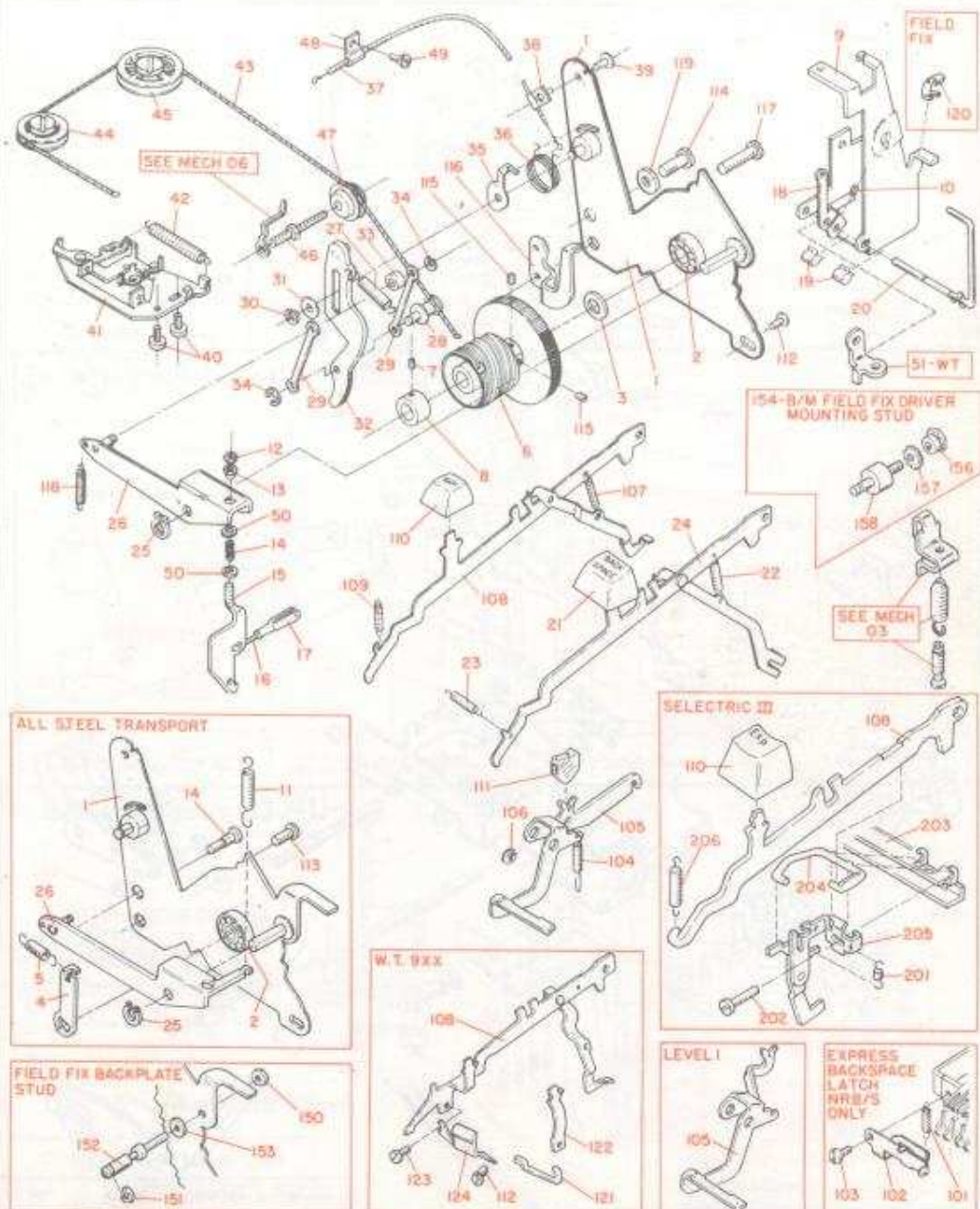
23



ROTARY BACKSPACE/EXP BACKSPACE

MECH. CODE

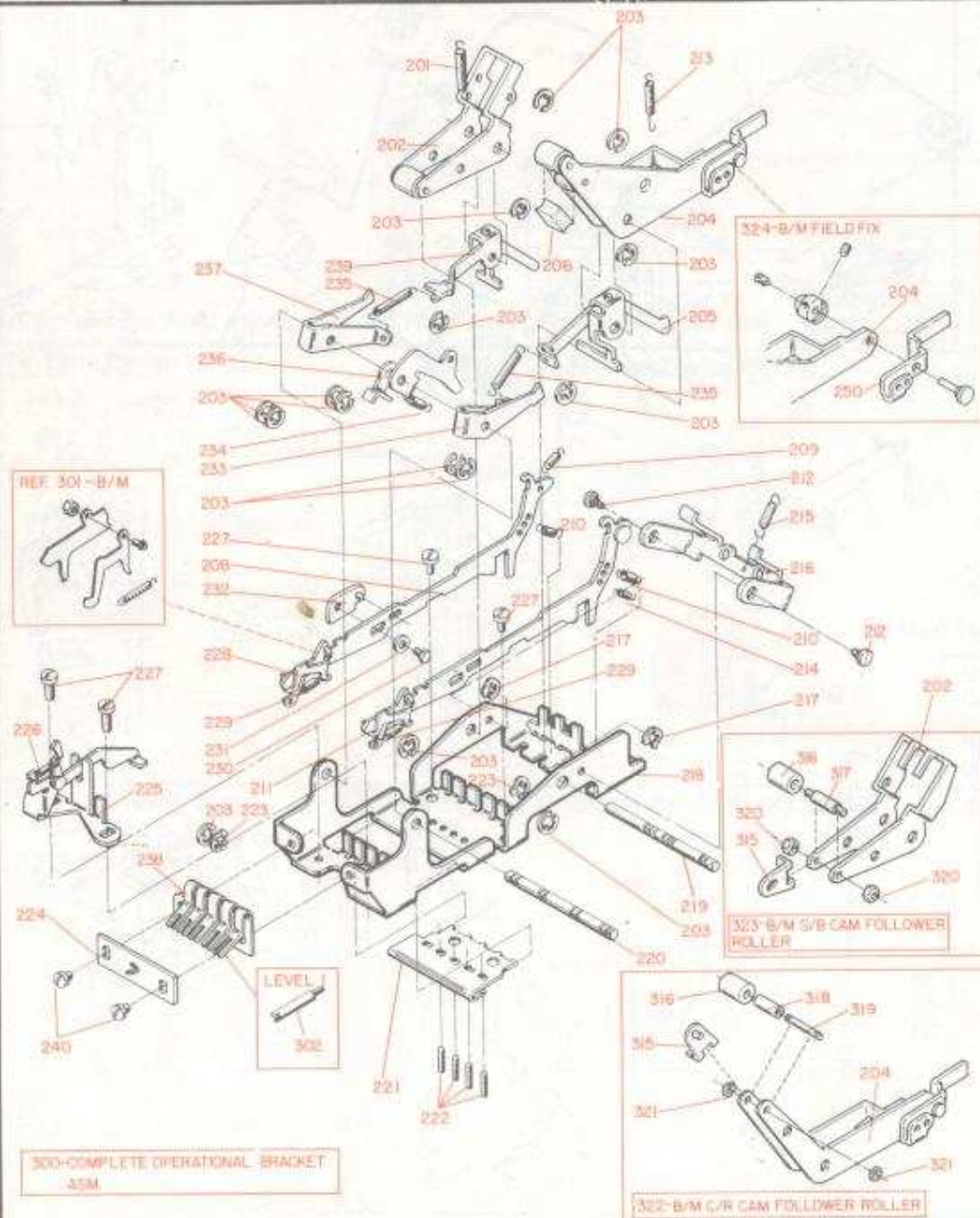
24



MECH. CODE

25

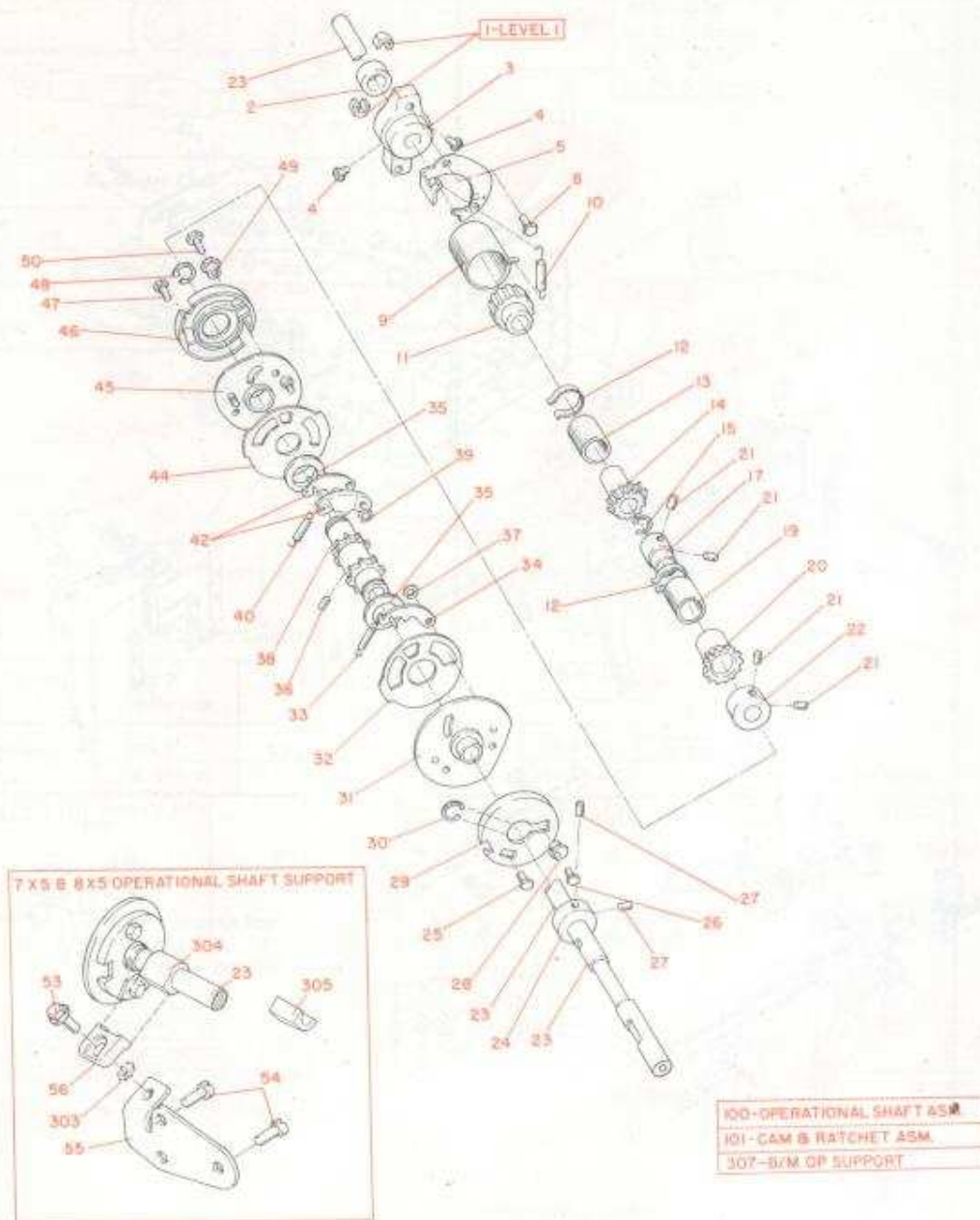
OPERATIONAL CONTROL



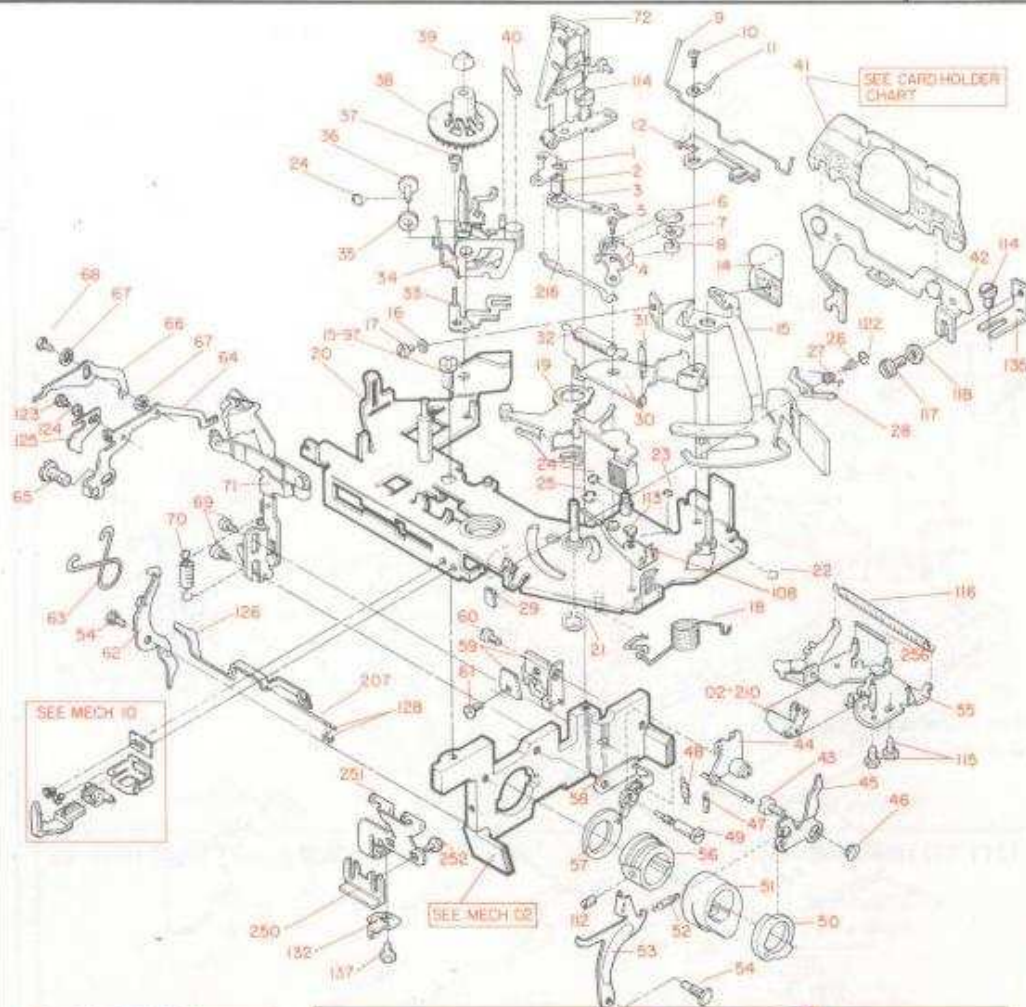
MECH. CODE

25

OPERATIONAL SHAFT ASSEMBLY



CORRECTING

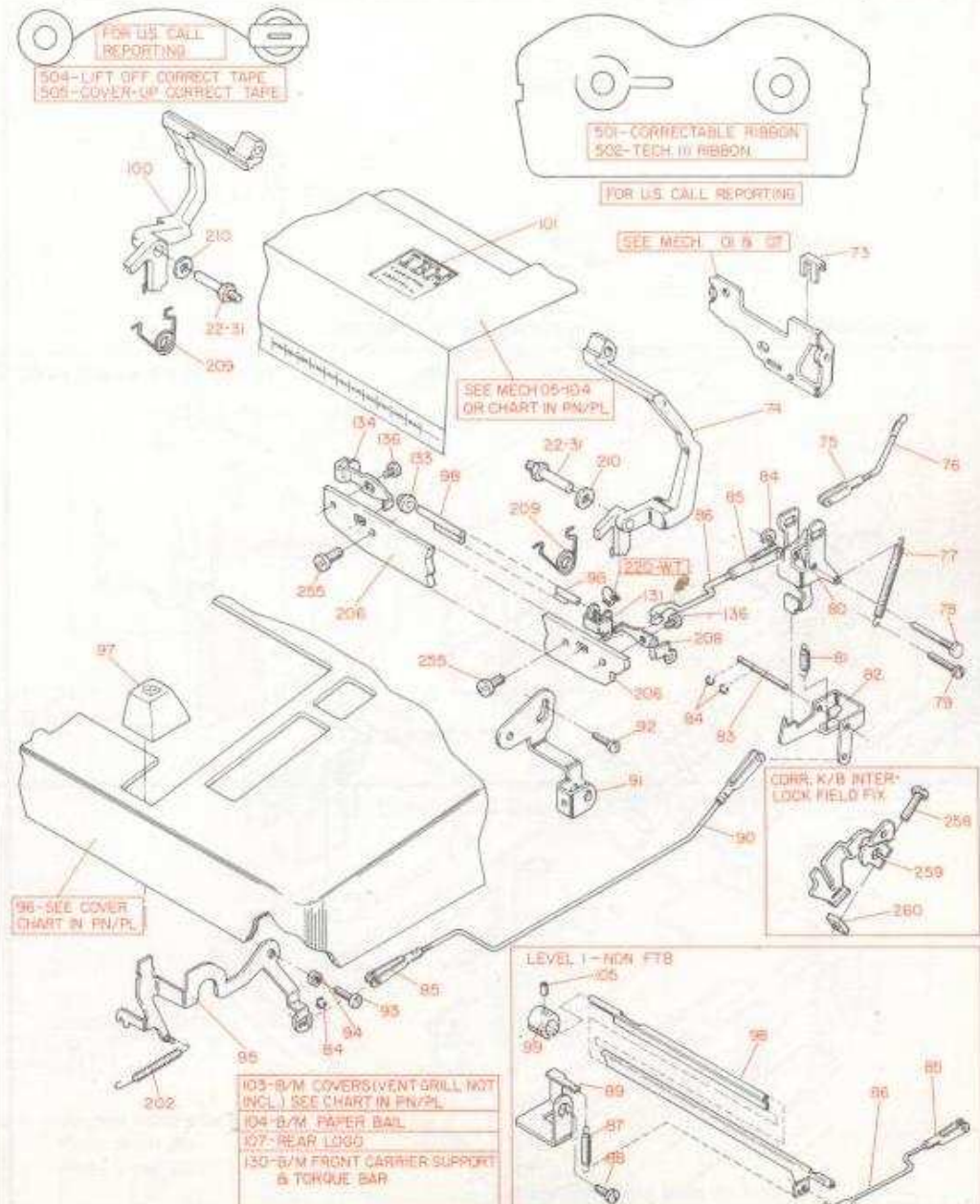
MECH. CODE
26

SEE MECH 10

34-CRADLE ASM B/M
102-CARRIER & ROCKER ASM
106-RIBBON PLATE ASM
13-TAPE FEED B/M



CORRECTING

MECH. CODE
26FOR U.S. CALL
REPORTING504-LIFT OFF CORRECT TAPE
505-COVER-UP CORRECT TAPE501-CORRECTABLE RIBBON
502-TECH 10 RIBBON

FOR U.S. CALL REPORTING

SEE MECH 01 & 07

SEE MECH 05-104
OR CHART IN PN/PL

220-WT

CORR. K/B INTER-
LOCK FIELD FIX96-SEE COVER
CHART IN PN/PL

LEVEL 1-NON FTB

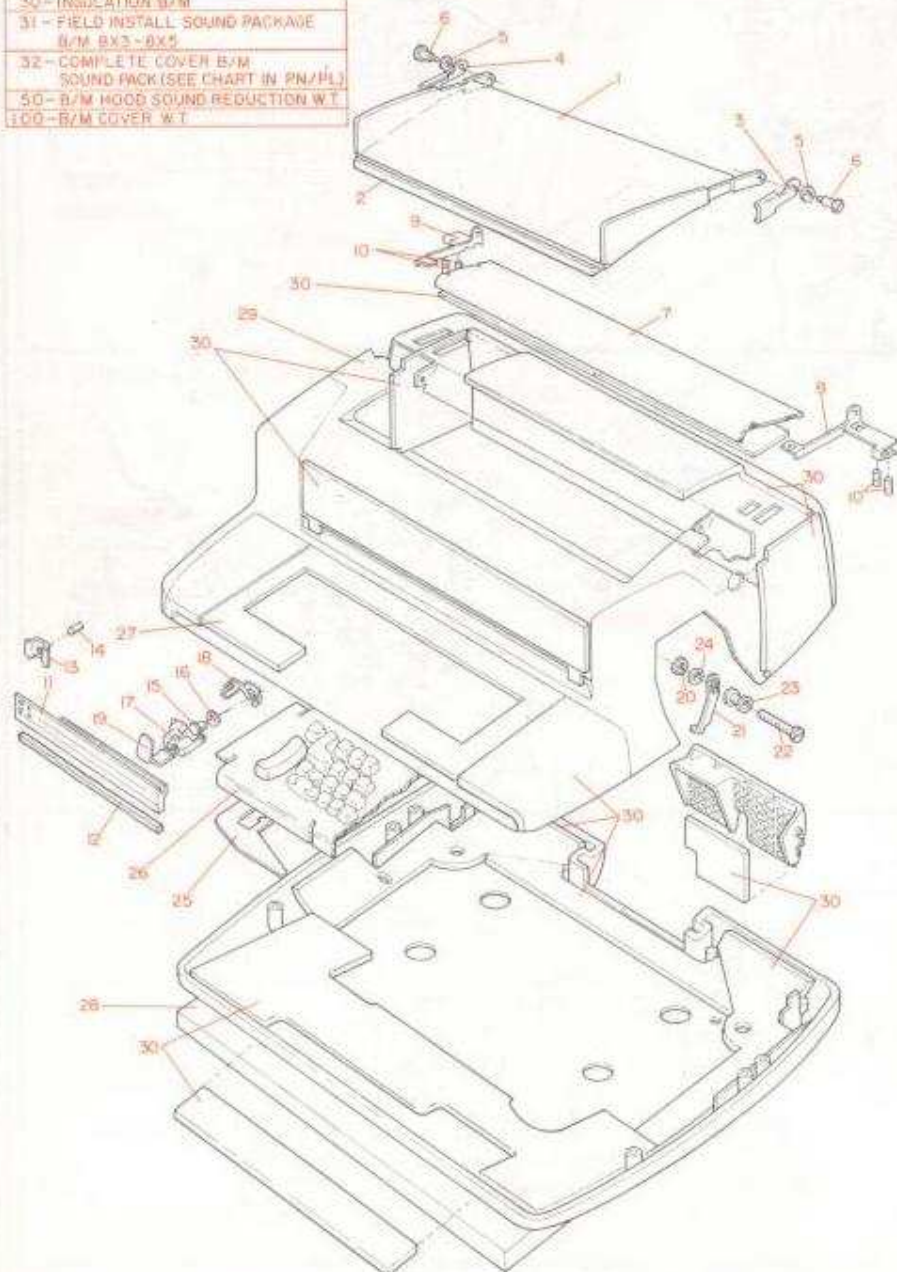
103-B/M COVER/VENT GRILL NOT
INCL. SEE CHART IN PN/PL
104-B/M PAPER BAIL
107-REAR LOGO
130-B/M FRONT CARRIER SUPPORT
& TORQUE BAR

MECH. CODE

30

SOUND REDUCTION (8XX)

- 30 - INSULATION B/M
 31 - FIELD INSTALL SOUND PACKAGE
 B/M BX2-BX5
 32 - COMPLETE COVER B/M
 SOUND PACK (SEE CHART IN PN/PL)
 50 - B/M HOOD SOUND REDUCTION W/T
 100 - B/M COVER W/T

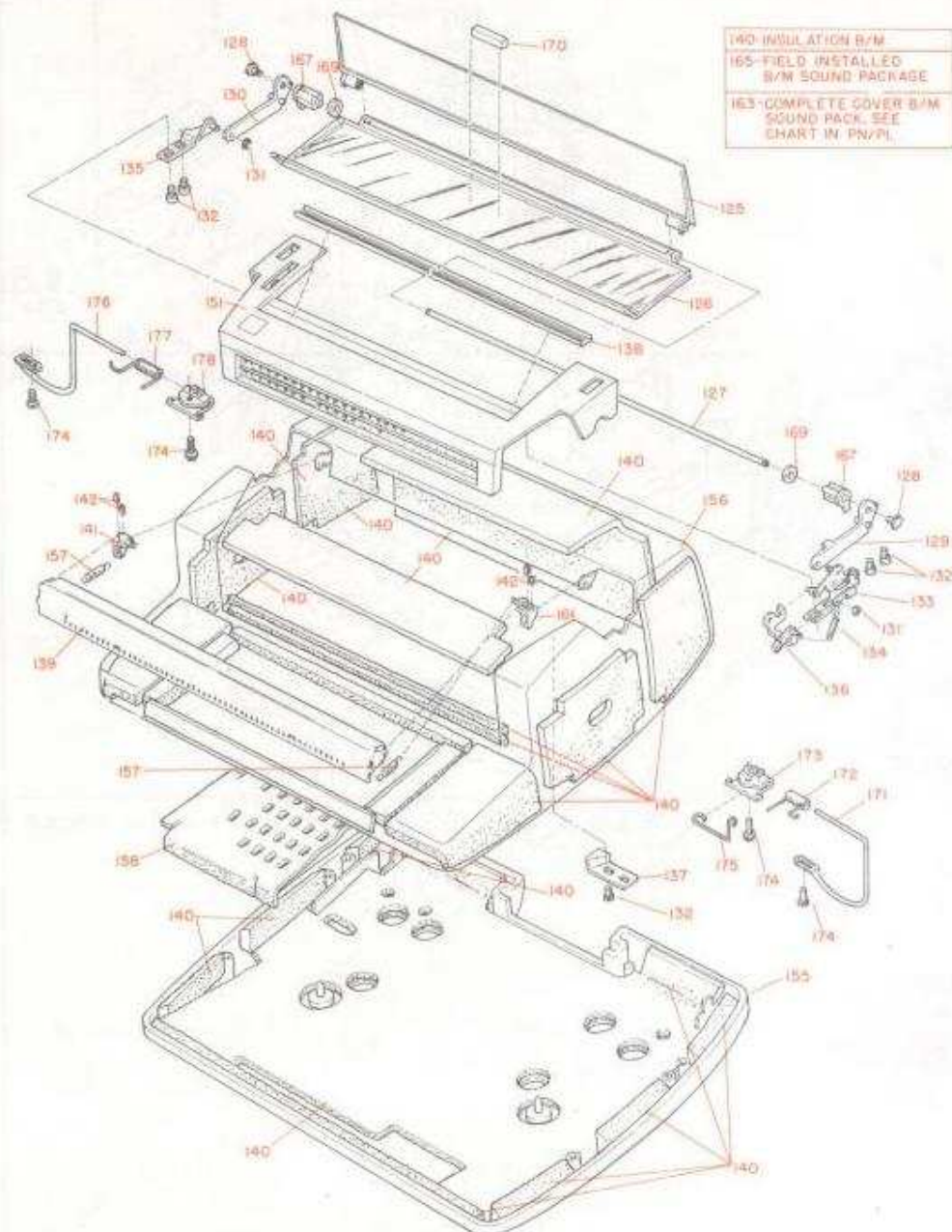


MECH. CODE

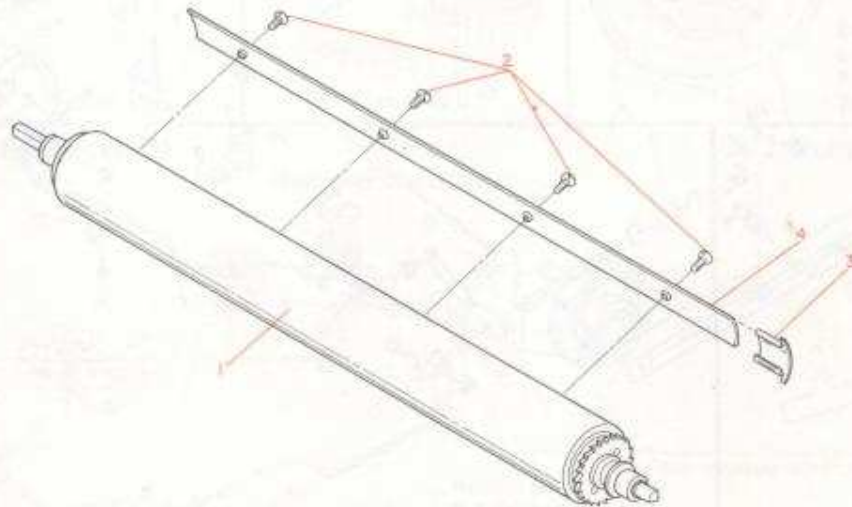
30

SOUND REDUCTION (670X)

- 140 - INSULATION B/M
 165 - FIELD INSTALLED
 B/M SOUND PACKAGE
 163 - COMPLETE COVER B/M
 SOUND PACK. SEE
 CHART IN PN/PL

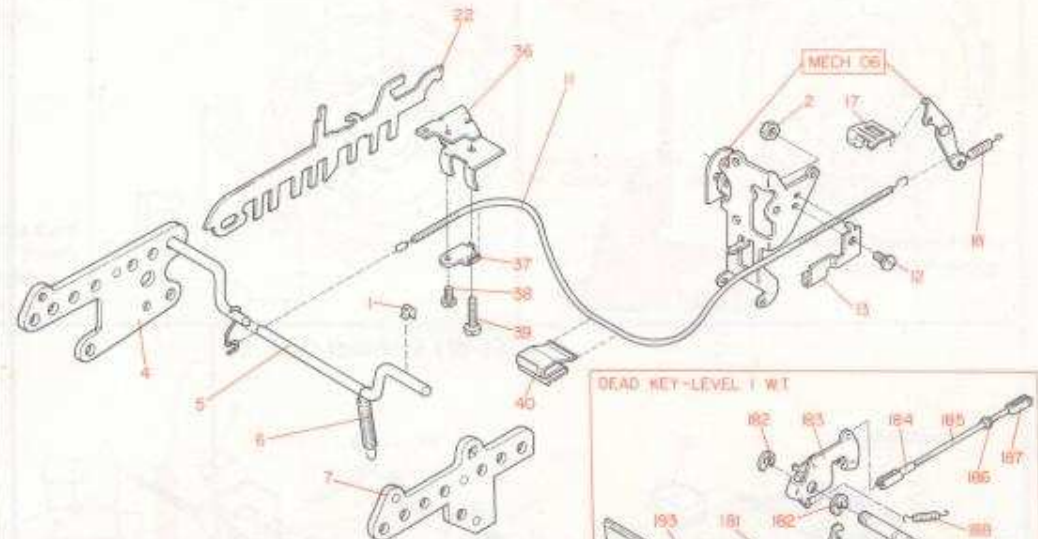


CARD HOLDING PLATEN

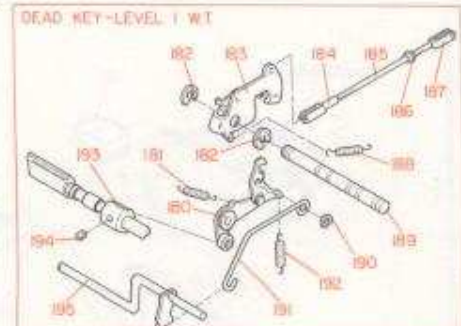
MECH. CODE
39

NOTE: REFER TO STD PLATEN FOR
PARTS NOT REFERENCED

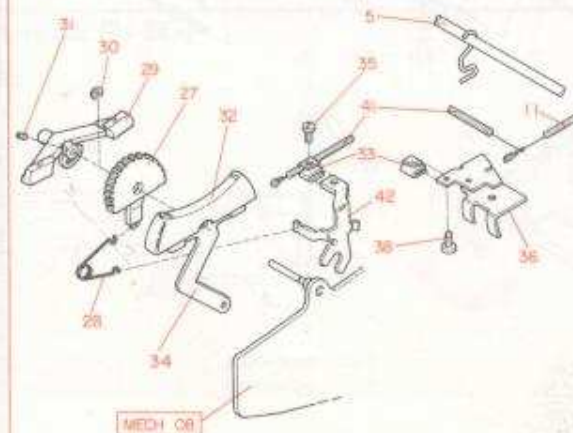
DEAD KEY

MECH. CODE
40

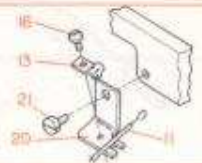
50-DEAD KEY DISCONNECT 5/M
FIELD INSTALLED ONLY ON
MACHINES WITH U.S. SN
BEGINNING WITH 5 OR 9
OR ANY SELECTRIC II



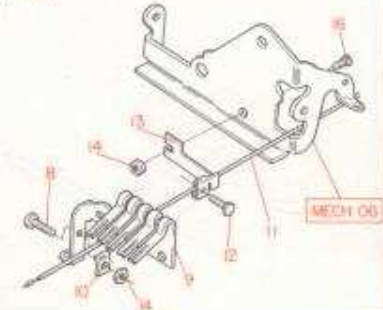
DEAD KEY DISCONNECT



723 & 725



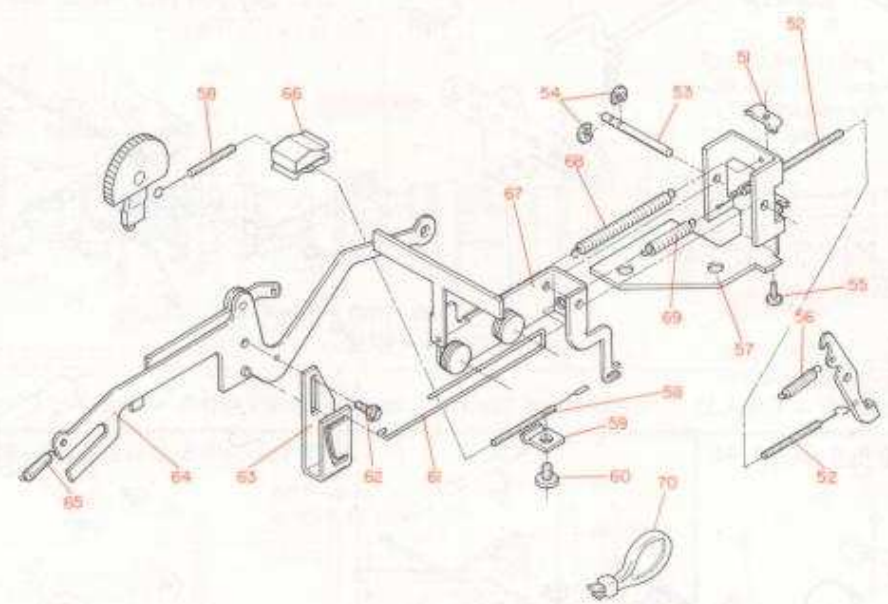
LEVEL I



MECH. CODE
40

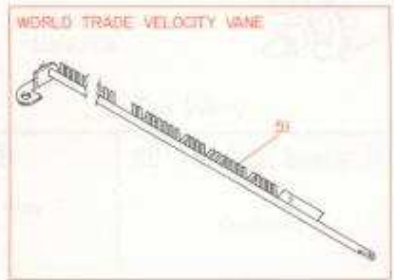
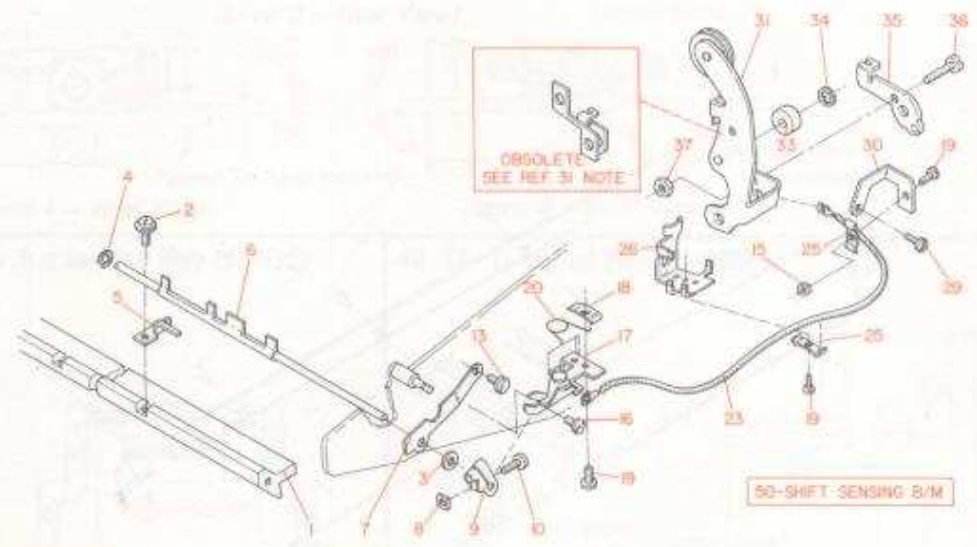
W.T. DEAD KEY
(THAILAND)

PARTS NOT SHOWN HERE ARE COMMON PARTS
AND ARE INCLUDED IN DEAD KEY DRAWING MECH. 40



MECH. CODE
41

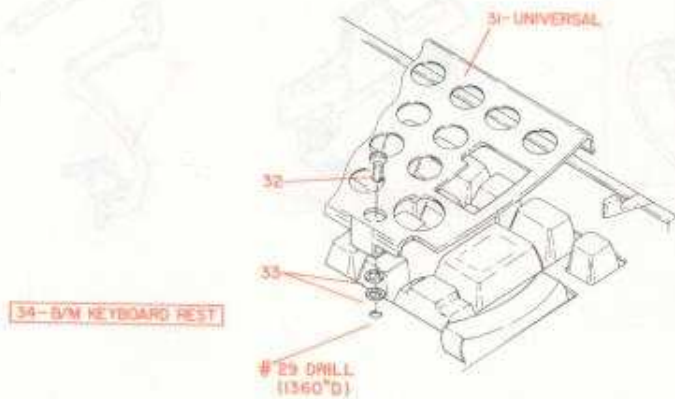
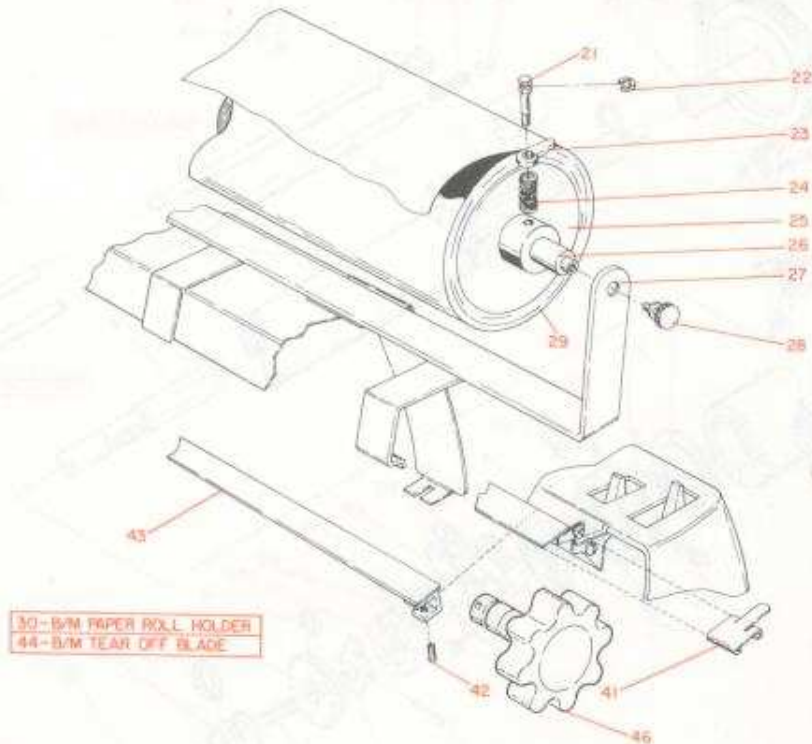
SHIFT SENSING



HANDICAPPED ATTACHMENTS

MECH. CODE

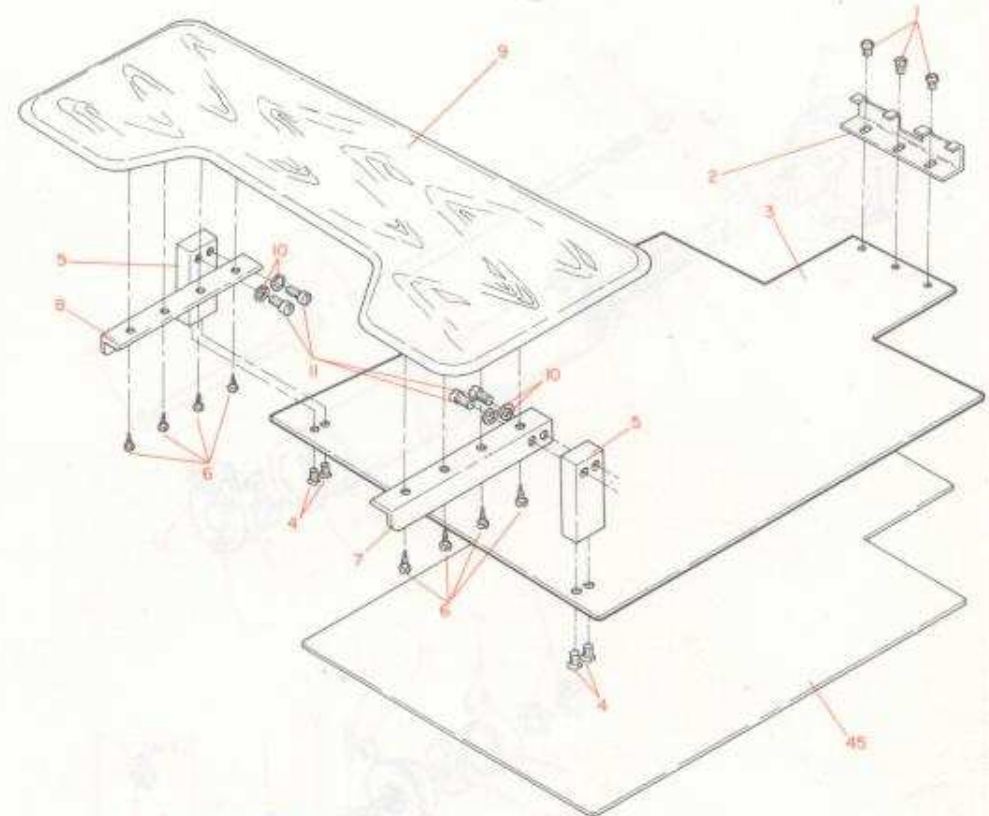
45



HANDICAPPED ATTACHMENTS

MECH. CODE

45

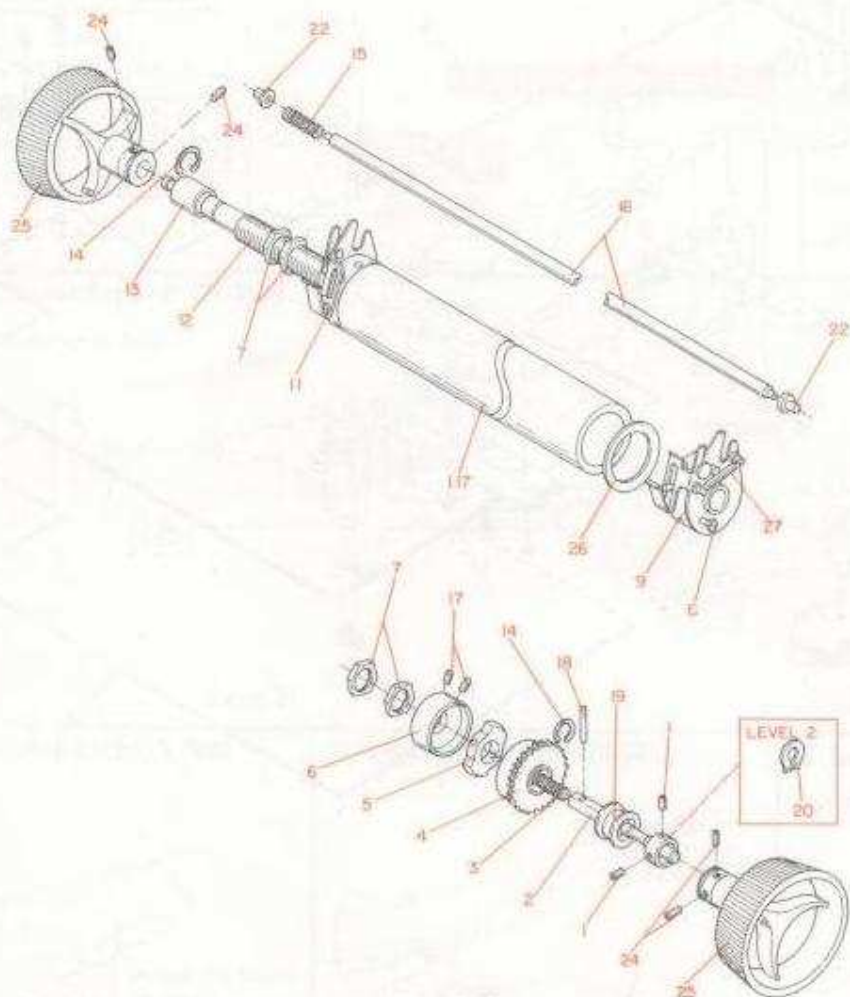


MECH. CODE

49

PIN FEED PLATEN

LEVEL 1

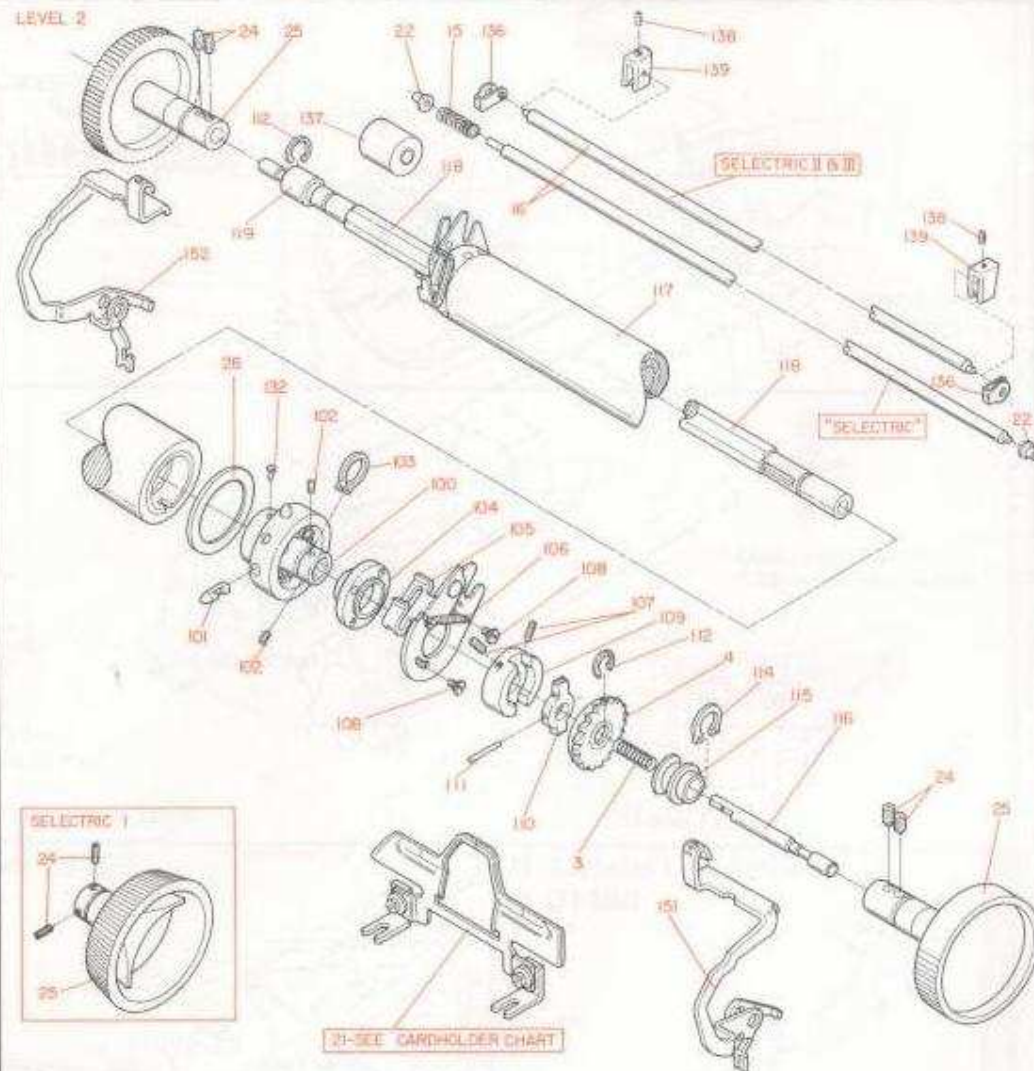


MECH. CODE

49

PIN FEED PLATEN

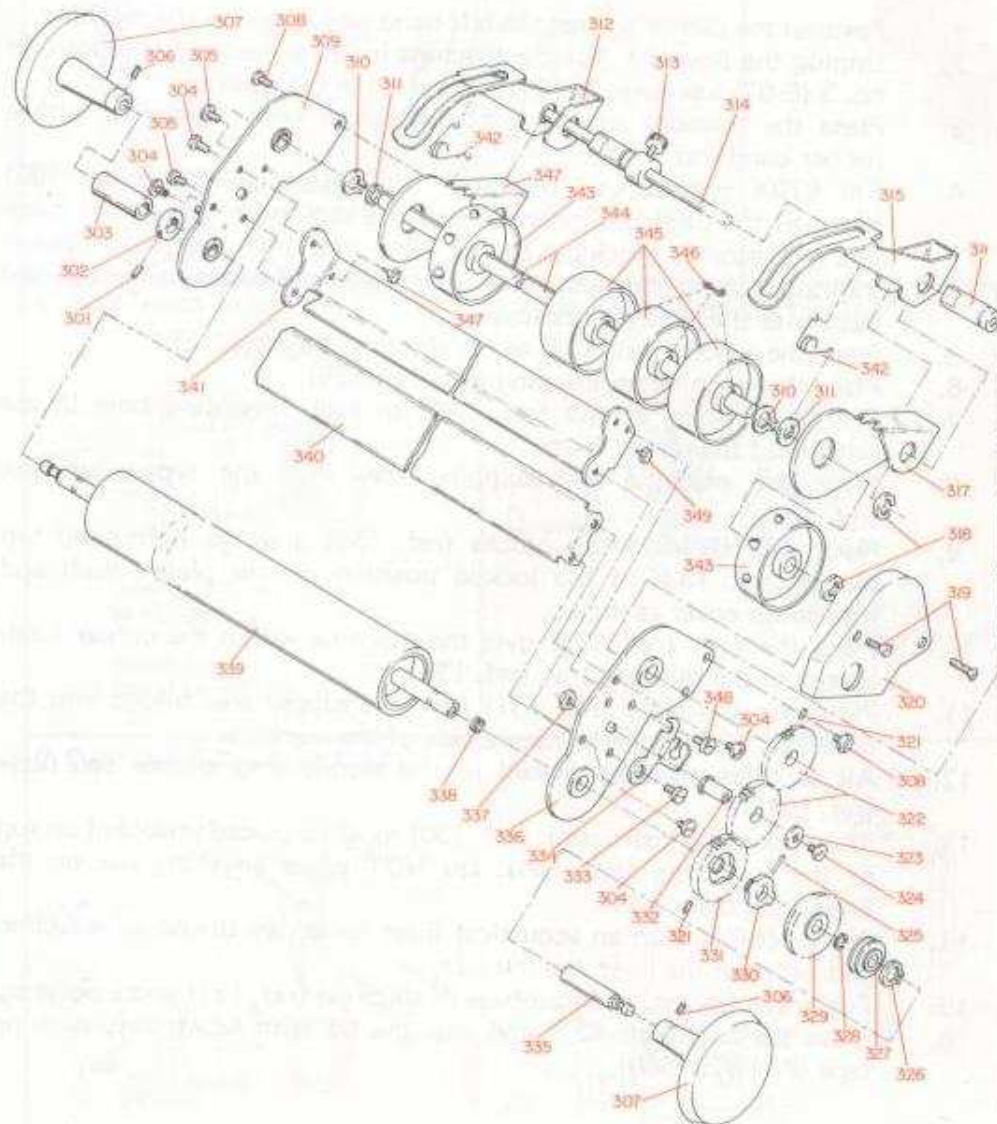
LEVEL 2



W. T. OVERHEAD PIN FEED PLATEN

MECH. CODE

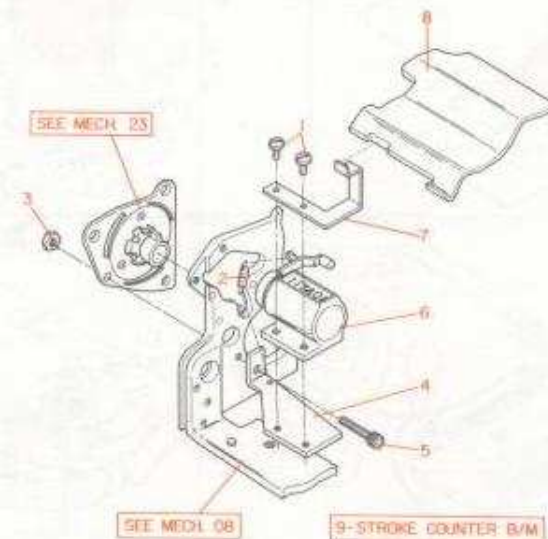
49



STROKE COUNTER

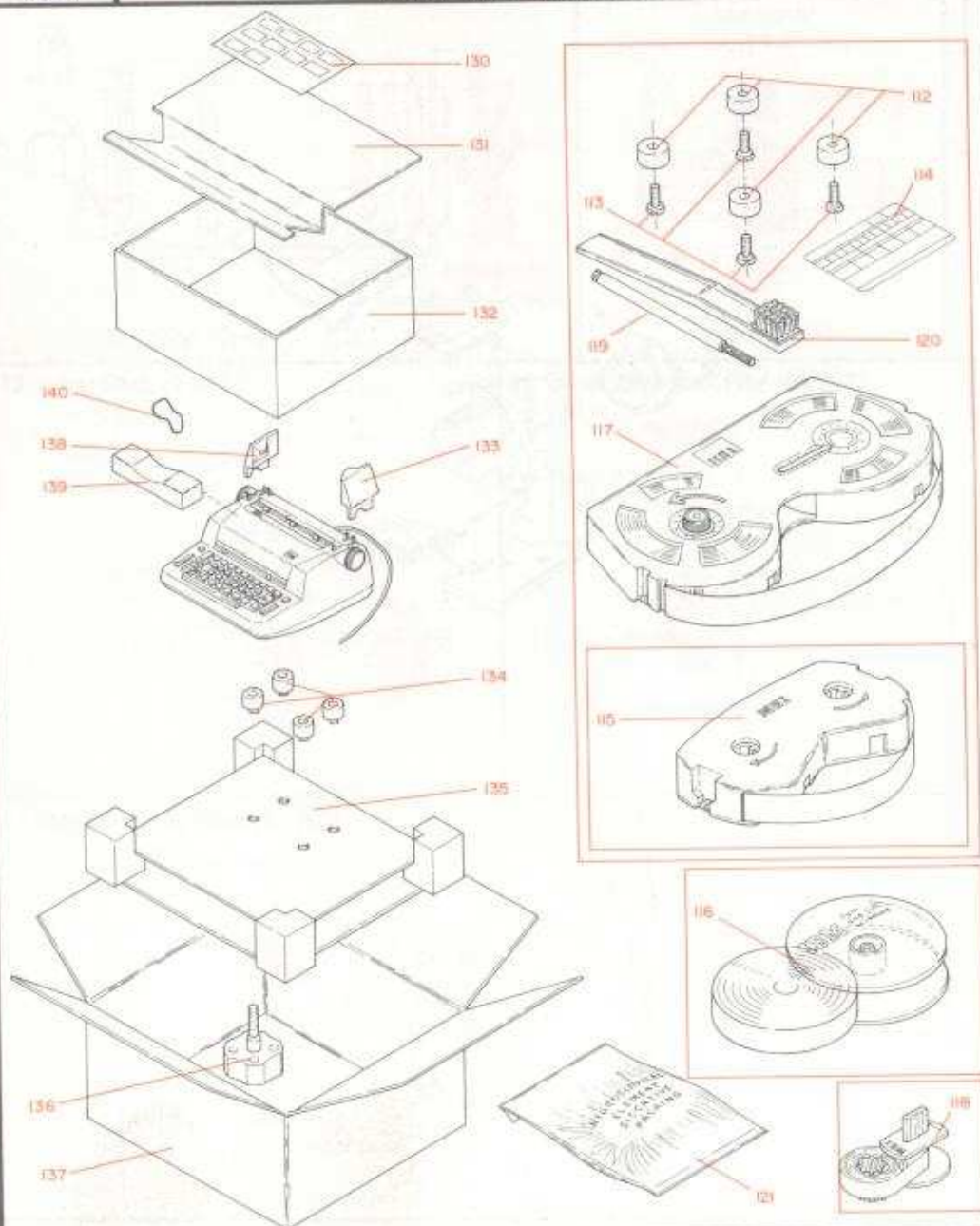
MECH. CODE

51



65

W.T. PACKING PARTS



W.T. PACKING INSTRUCTIONS

WORLD TRADE PACKING INSTRUCTIONS

1. Position the carrier against the left-hand side frame of the machine.
2. Unplug the linecord. Put the machine in lower case and trip position no. 3 (E-02) keylever. Put On/Off switch in off position.
3. Place the linecord around left-hand platen knob. Secure it with a rubber band (ref. 140).
4. For 670X typewriter ("Selectric" III), place the foam (ref. 139) between the page-end indicator and the top cover. Secure the page-end indicator by placing a rubber band (ref. 140) over the page-end indicator, under the acoustical filter hood and paper bail shaft, and back over the page-end indicator.
5. Place the spacers (ref. 134) in the shipping tray (ref. 135).
6. Place the machine on shipping tray (ref. 135).
7. Fit the shipping screws (ref. 136) in each mounting hole in the bottom of the power frame.
8. Place the machine and shipping tray into the typewriter box (ref. 137).
9. Place the left-hand top blocks (ref. 138) and the right-hand top blocks (ref. 133) in the locked position on the platen shaft and top/center cover as shown.
10. Place the liner (ref. 132) over the machine within the corner foam blocks of the shipping tray (ref. 135).
11. Place the top plate (ref. 131) with the supply area folded into the liner (ref. 132) at the keyboard side of the machine.
12. All supplies must be placed in the supply area of the top plate (ref. 131).
13. The unpacking instruction (ref. 130) must be placed unfolded on top of the top plate (ref. 131). Do NOT place anything else on the unpacking instruction.
14. For machines with an acoustical filter hood, lay the noise reduction pad between the liner and the box.
15. For ocean freight, add four bags of silica gel (ref. 121) and a polybag.
16. Close the box (ref. 137) and seal the lid with heavy-duty packing tape (P/N 8199660).

BOLT DOWN INSTRUCTIONS

BOLT DOWN INSTRUCTIONS – DROP CENTER DESKS

1. Install four mounting feet – P/N 1128485 for "Selectric" Typewriters or P/N 1205981 for "Selectric" II and III Typewriters or Correcting "Selectric" II and III Typewriters – to power frame.
2. Place a small amount of grease on the feet just around the outside of the threaded holes.
3. Set typewriter down in the correct position on the desk. Lift typewriter off the desk. The position of the holes to be made can now easily be seen.
4. Use a drill to make four holes and bolt machine to desk. See C-D Catalog, Code 204, Ref. 67 for mounting bolts.
5. **Warning:** The two front bolts must have some clearance between the bolt heads and the desk bottom. They must not pull down on the feet or the power frame may twist. The two rear feet may be tightened.

COVER BOLT DOWN

1. Remove machine from covers.
2. Place bottom cover in correct position on desk.
3. With a cover adapter in each of the two center holes of the bottom cover, mark where to drill the hole. On the "Selectric" II Typewriter, use spacer between adapter and bottom cover.
4. Use proper length of bolt and fasten the bottom cover to the desk. To find out which bolt to use, add 1/2" (12.70 mm) to the thickness of the desk.

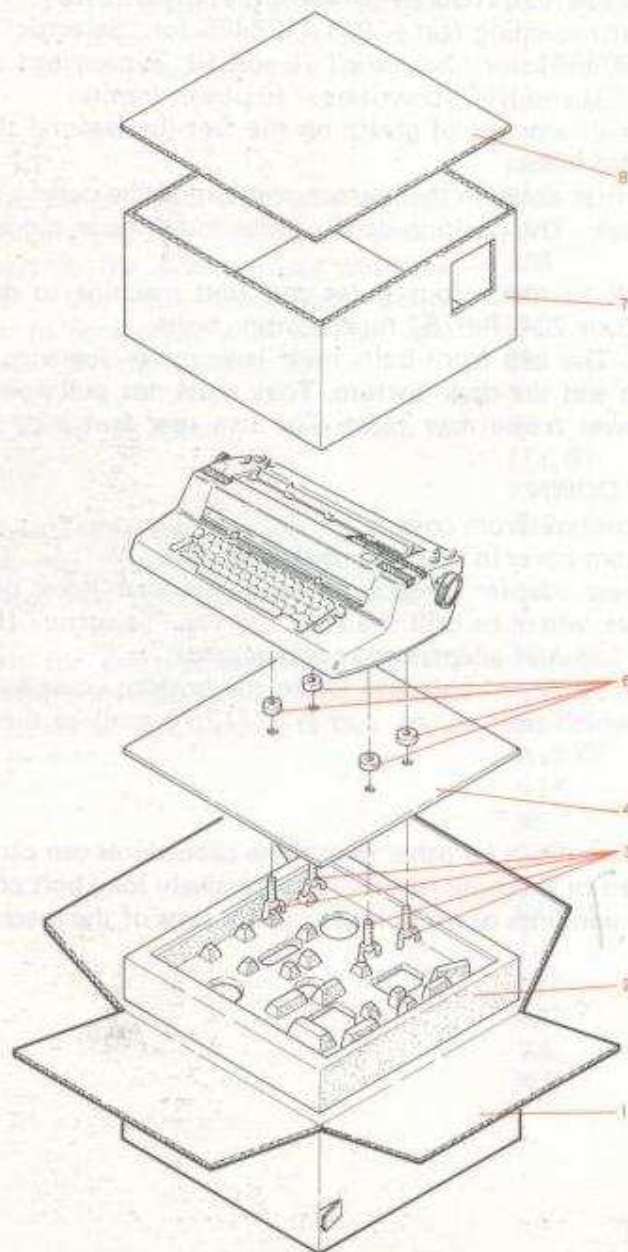
CAUTION

Bolting a machine down by other than these procedures can cause an electrical safety hazard or machine failure. An excessively long bolt could interfere with the motor windings or other inner mechanisms of the machine.

MECH. CODE

65

U.S. PACKING PARTS



U.S. PACKING INSTRUCTIONS

PACKING INSTRUCTIONS

1. Position the carrier all the way to the right, latch out tab and attach Minnesota Mining Y-9035 or similar tape as shown in Mech. 765.
2. Place Minnesota Mining Y-9035 or similar tape on top cover as shown.
3. Place four rubber grommets under the bottom of the typewriter case as shown.
4. Use wing nut screws to mount the pallet to the machine.
5. Place hair pad in bottom of the box and insert machine.
6. Place liner around the machine and place cord to the back of the liner with Minnesota Mining Y-9035 or similar tape.
7. Insert chipboard tray as shown and seal the carton with tape.

Warning: Do not excessively tighten the front right-hand wing nut screw.

UNPACKING INSTRUCTIONS

1. Open carton by pulling tear tape completely around four sides. Remove top part of the box. Remove top cardboard chipboard tray. Lift out liner by moving the sides away from the platen knobs and lift machine out of the tray.
2. Tilt machine and pallet so the machine rests on the back cover.
3. Remove the four thumb screws. These can normally be turned by hand, but, if necessary, use a pencil as an additional lever.
4. Remove pallet board and plastic spacers.
5. Remove rubber grommets from the five mounting holes in the machine bottom cover (seven on the 7X5 and 8X5).
6. Install the four nylon spacers found in the plastic accessory bag into four of the mounting holes from which the thumb screws were removed.
7. Set the machine down and remove the tape, holding the top cover and the type carrier.
8. The machine is now ready for preinstallation checkout.

APPROXIMATE MACHINE AND CARTON WEIGHT AND SIZE

7X1 — Size 14" (355.6 mm) Deep, 15" (381.0 mm) Wide

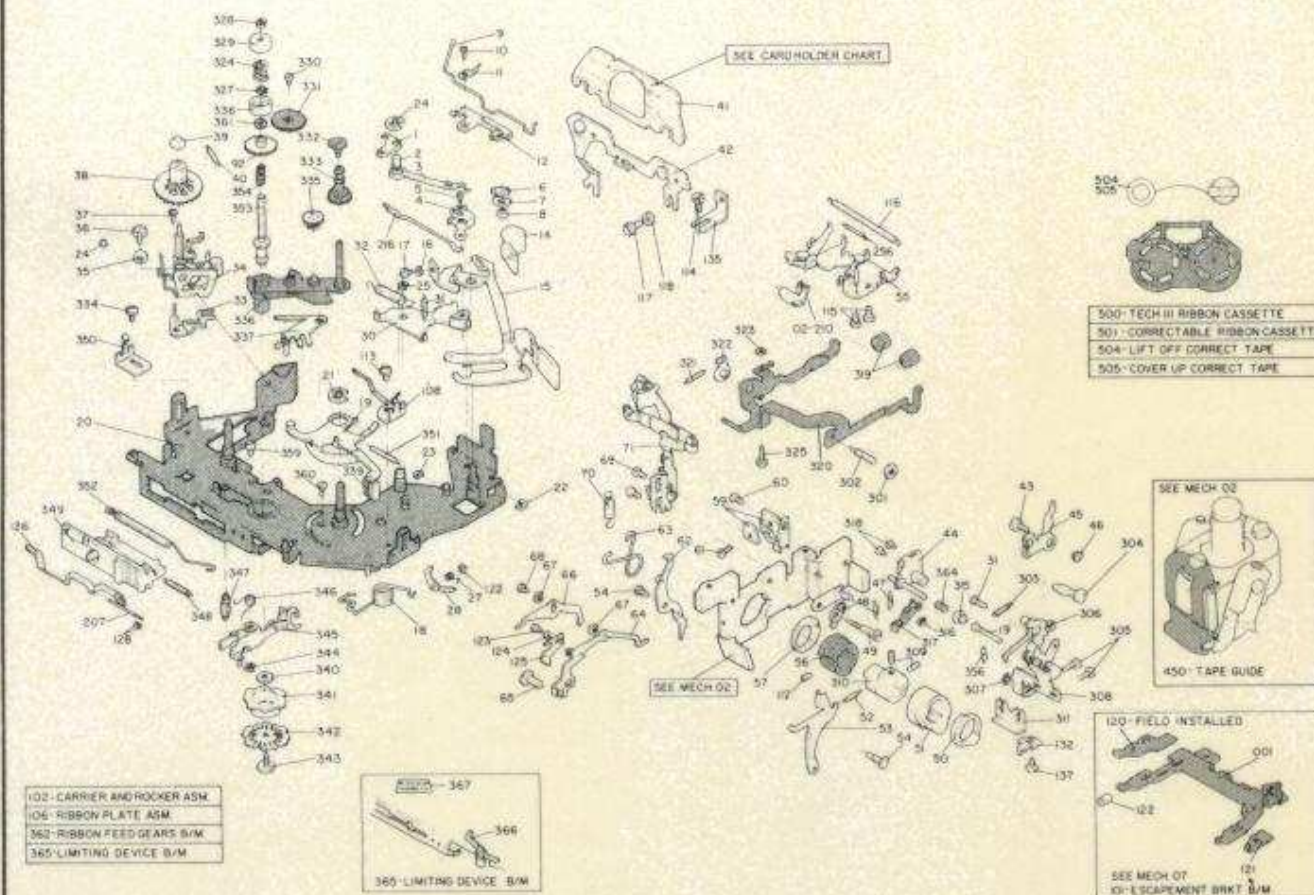
7X5, 8X5 — Size 14" (355.6 mm) Deep, 20" (508.0 mm) Wide

Model 7X1	32 lbs.	(14.5 kg)
Models 7X3, 8X3	35 lbs.	(16.5 kg)
Models 7X5, 8X5	37 lbs.	(17.5 kg)
Carton 7X1	10 lbs.	(4.5 kg)
Cartons 7X5, 8X5, 670X	14 lbs.	(6.35 kg)

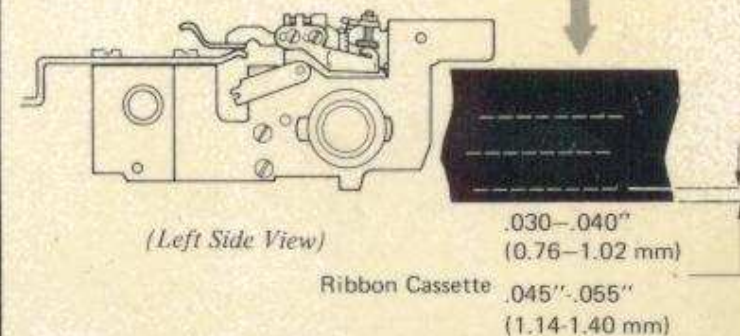
RIBBON CASSETTE

MECH. CODE

27

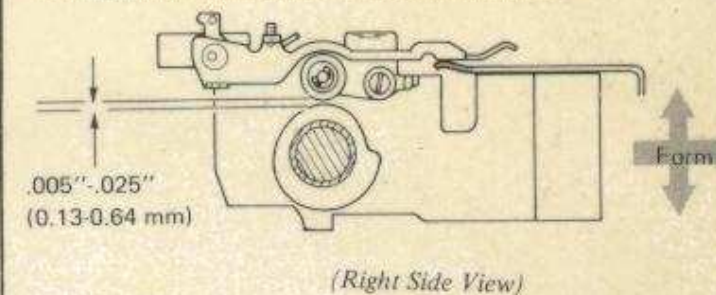


Frame 314-Lift Height



Frame 315 - Lift Arm Stop (Ribbon Cassette)

"For RC Only-Form Stop On Escapement Bracket"



1. Attach this insert on last page of APM S241-5939-3.
2. Shaded parts are unique to Ribbon Cassette Mechanism

Tape Deflector-Adjust the deflector against the tilt ring

MACHINE IDENTIFICATION CODES

"SELECTRIC" TYPEWRITER – MACHINE TYPE 6121

1st Digit – 7

2nd Digit – 1 – Film Ribbon
2 – Fabric Ribbon3rd Digit – 1 – 8-1/2" writing line
3 – 11" writing line
5 – 13" writing line**"SELECTRIC" II AND CORRECTING "SELECTRIC" II
TYPEWRITERS – MACHINE TYPE 6126**

1st Digit – 8

2nd Digit – 3 – Single-Pitch Selective Ribbon
4 – Single-Pitch Fabric Ribbon
5 – Single-Pitch Correcting "Selectric" Typewriter
7 – Dual-Pitch Selective Ribbon
8 – Dual-Pitch Fabric Ribbon
9 – Dual-Pitch Correcting "Selectric" Typewriter3rd Digit – 3 – 11" writing line
5 – 13" writing line**WRITING LINE PAPER WIDTH CAPACITY**

8-1/2"	=	11"
11"	=	13-1/2"
13"	=	15-1/2"

**"SELECTRIC" III AND CORRECTING "SELECTRIC" III
TYPEWRITERS – PRODUCT CODE 27****MACHINE DESCRIPTION****MACHINE TYPE**

13" Writing Line Single-Pitch Fabric	.6701
13" Writing Line Single-Pitch Non-Correcting	.6702
15" Writing Line Single-Pitch Correcting	.6703
13" Writing Line Dual-Pitch Correcting	.6704
15" Writing Line Dual-Pitch Correcting	.6705

96-CHARACTER "SELECTRIC" TYPEWRITER

1st Digit – 9

2nd Digit – 6 – Single-Pitch Selective Ribbon
4 – Single-Pitch Fabric Ribbon
5 – Single-Pitch Correcting "Selectric" Typewriter
1 – Dual-Pitch Selective Ribbon
2 – Dual-Pitch Fabric Ribbon
9 – Dual-Pitch Correcting "Selectric" Typewriter3rd Digit – 3 – 11" writing line
5 – 13" writing line