

ILLUSTRATIONS

■ Mechanical Adjustments

■ Lubrication Points

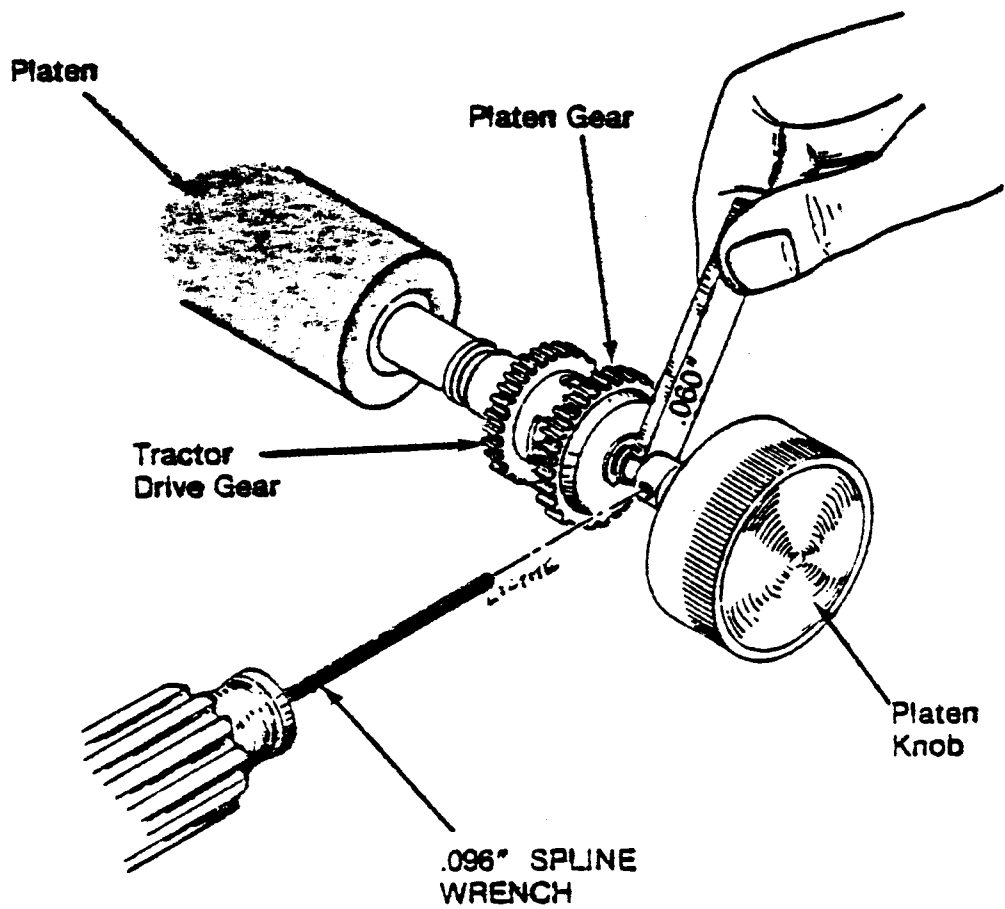
■ Recommended Lubricants & Cleaners

■ Game Printer Tools

■ General Hand Tools

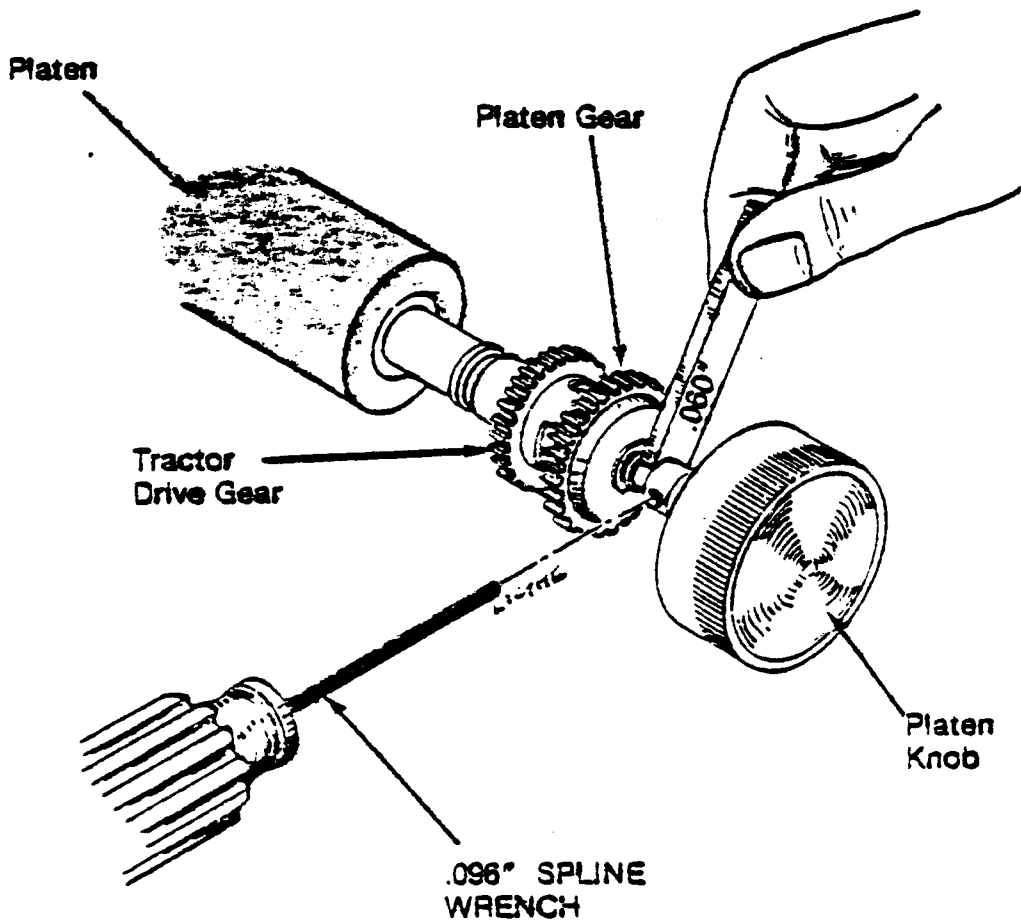
PLATEN CLUTCH RELEASE ADJUSTMENT

Adjust For $.060" \pm .005"$

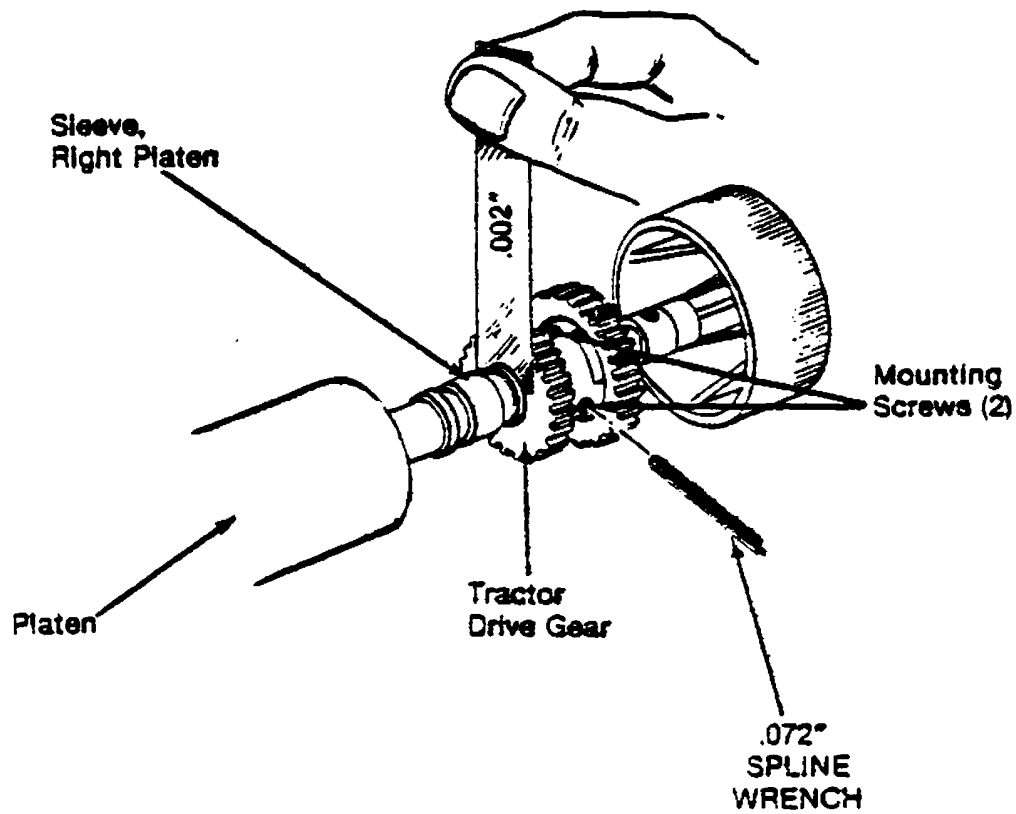


PLATEN CLUTCH RELEASE ADJUSTMENT

Adjust For $.060" \pm .005"$

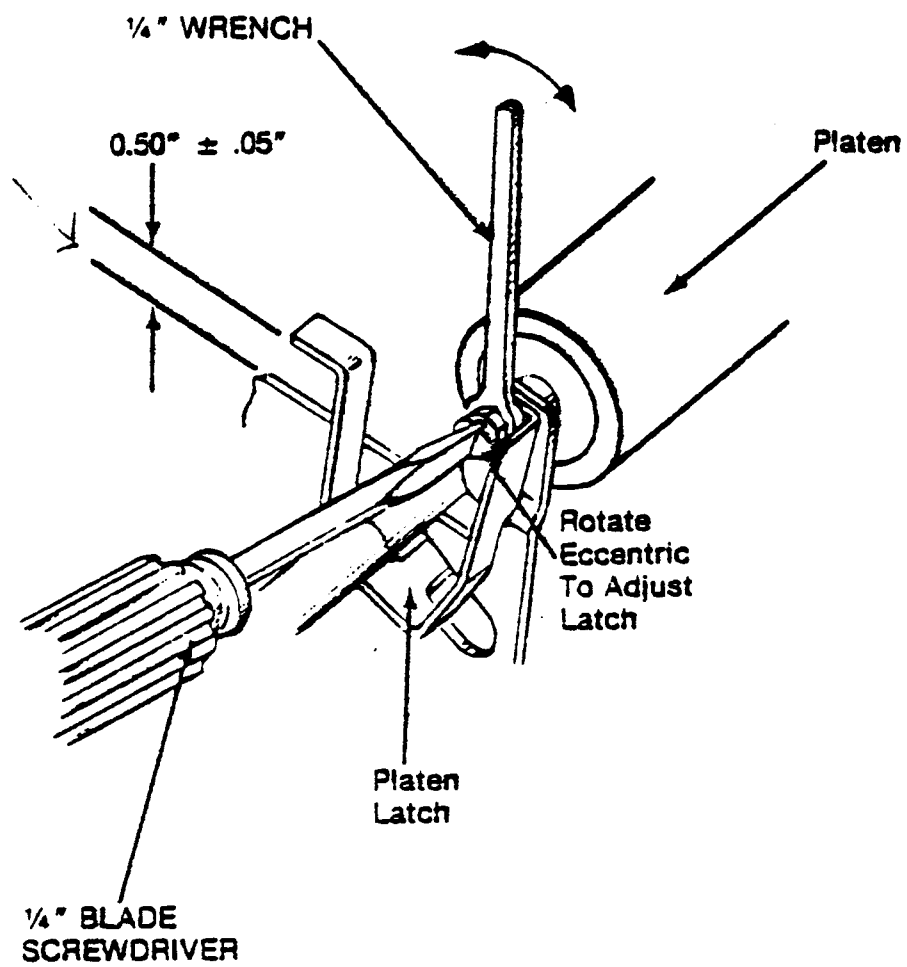


TRACTOR DRIVE GEAR ADJUSTMENT

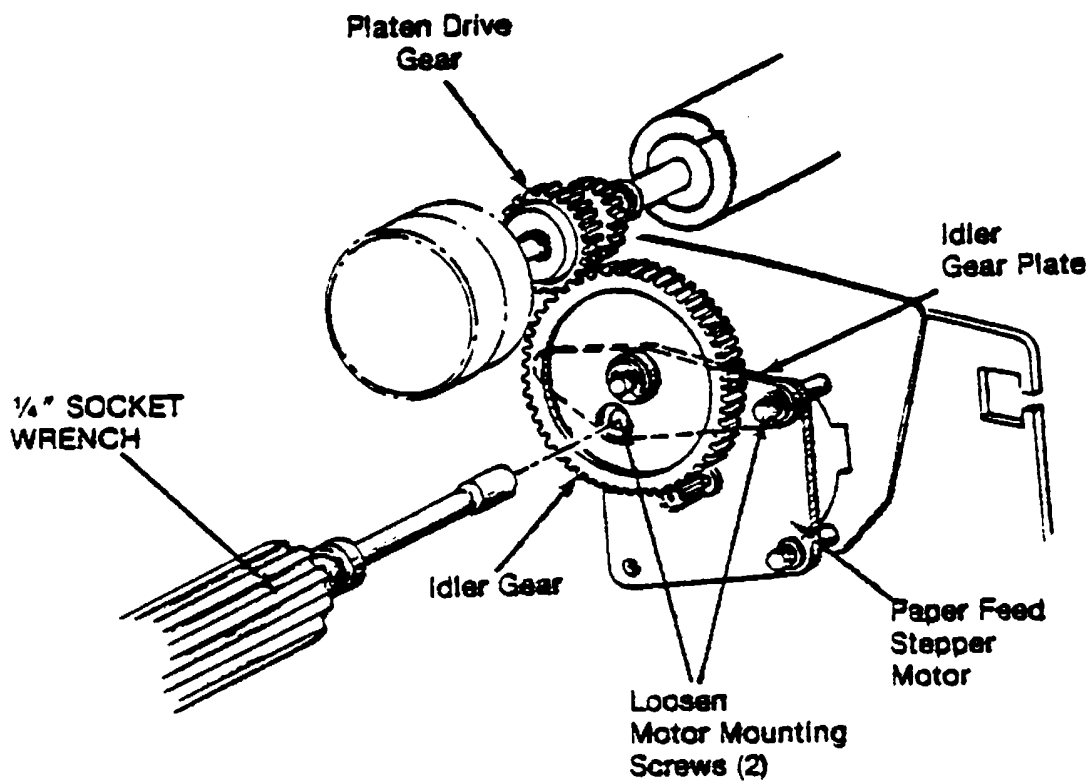


Adjust For Minimum Clearance
(.004" Max, No Bind)

PLATEN LATCH ADJUSTMENT

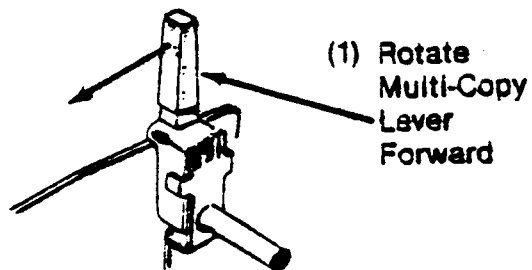


PLATEN DRIVE IDLER GEAR ADJUSTMENT



Adjust Idler Gear Plate
For No Backlash, No Bind
Between Gears

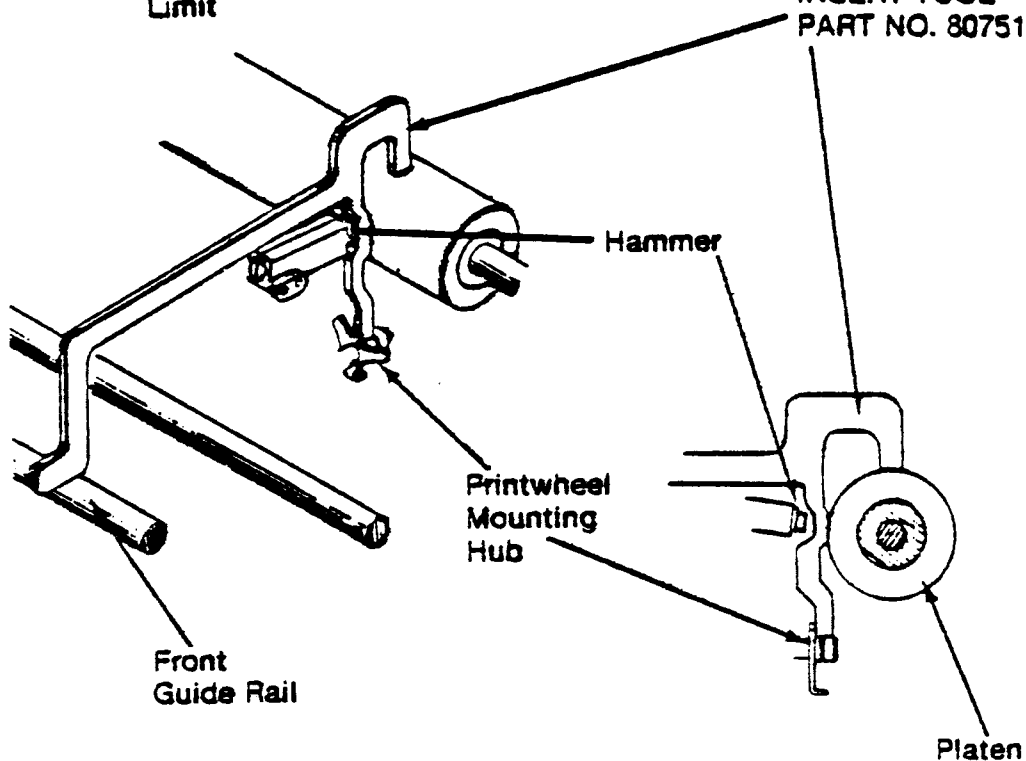
PLATEN DEPTH AND HEIGHT ADJUSTMENT, STEP 1



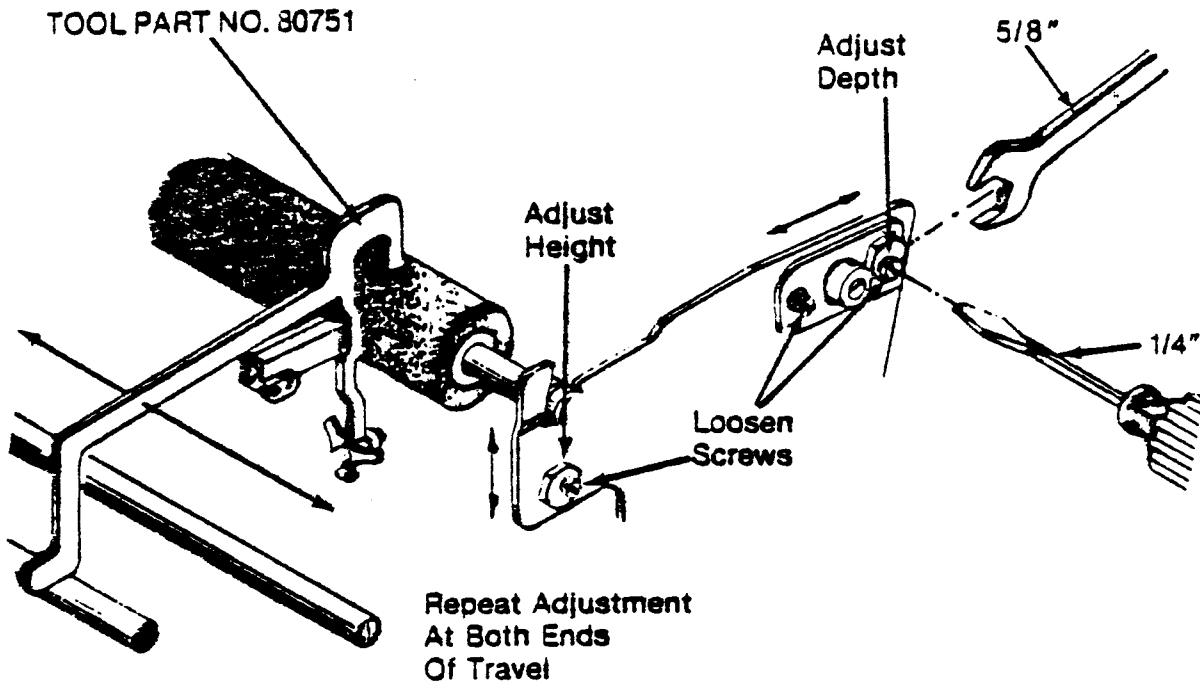
(3) Move Carriage To Right Or Left Hand Travel Limit

(2) Remove Ribbon And Printwheel

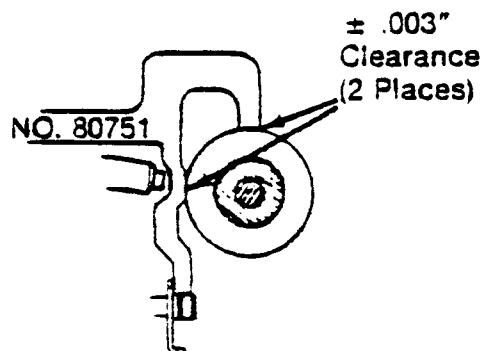
INSERT TOOL
PART NO. 80751



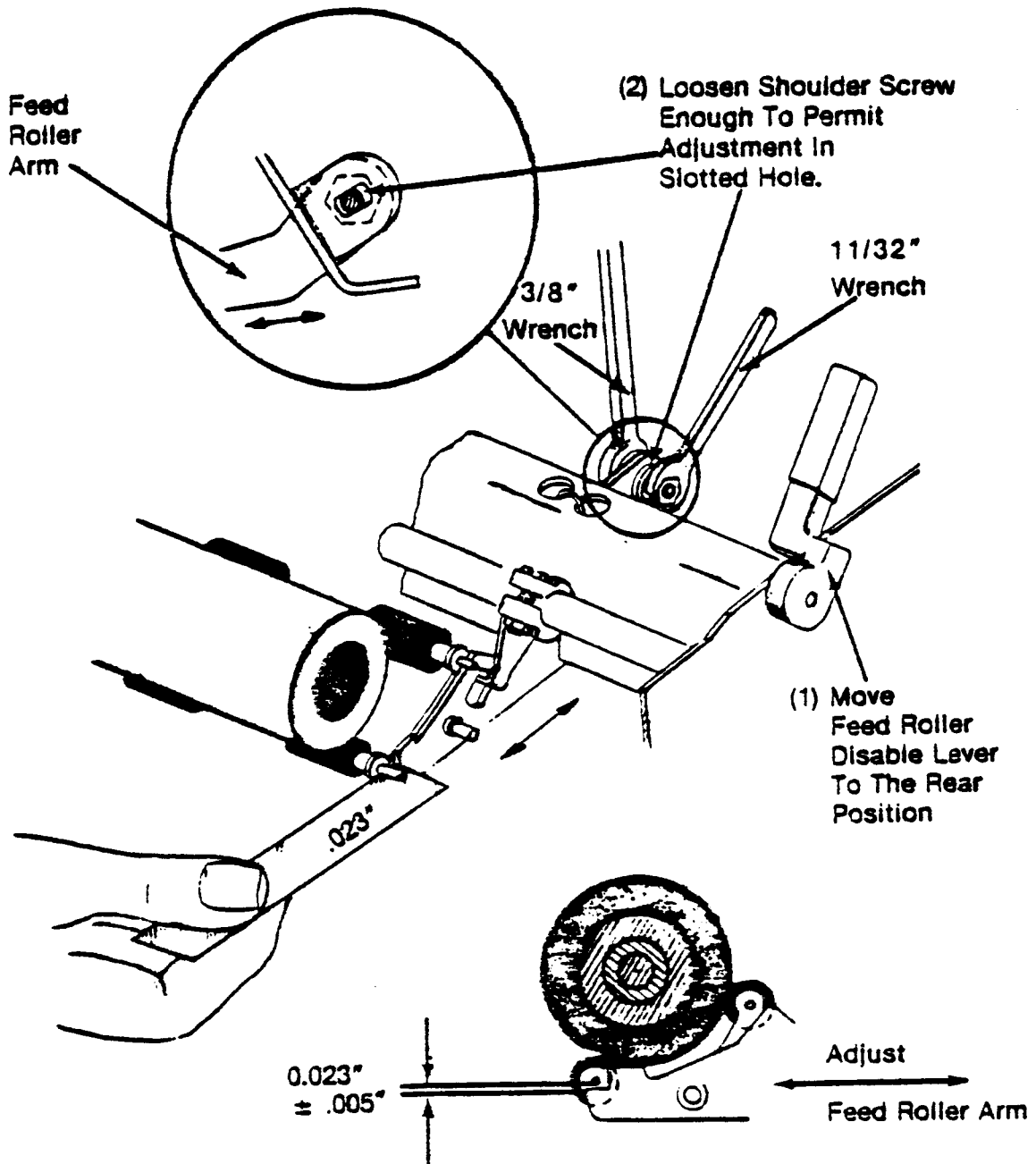
PLATEN DEPTH AND HEIGHT ADJUSTMENT STEP 2



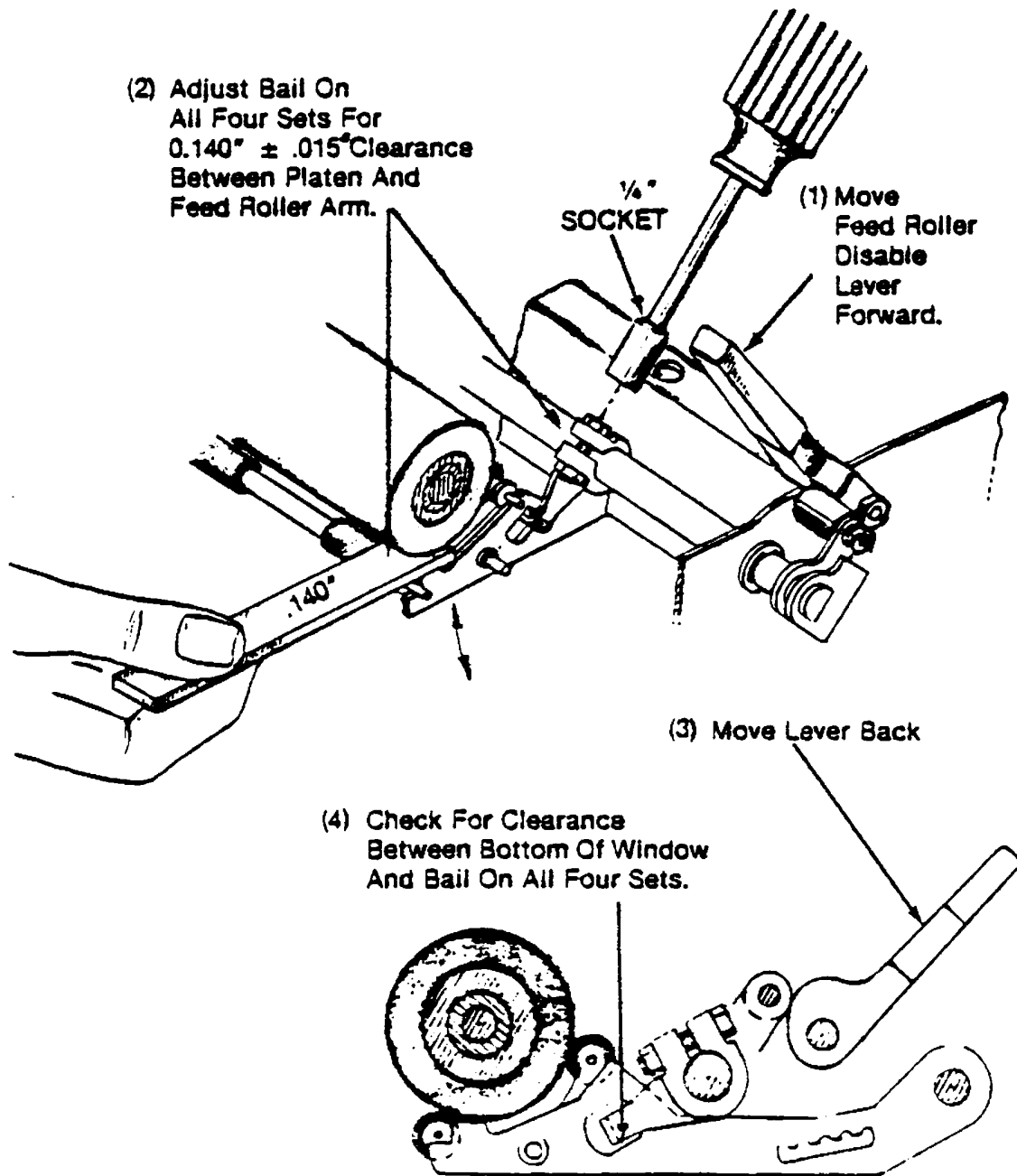
Insure That The High Point Of The Height Eccentric Faces Forward, And Faces Upward On The Depth Eccentric Prior To Making The Final Settings.



FEED ROLLER DEPTH ADJUSTMENT



FEED ROLLER DISABLE LEVER ADJUSTMENT

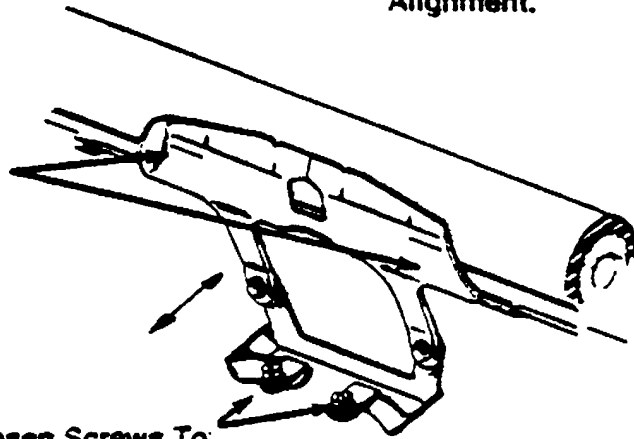


CARD GUIDE FORWARD, HORIZONTAL, AND HEIGHT ADJUSTMENT

**NOTE: Platen
Must Be Properly
Adjusted Prior
To Making This
Alignment.**

FORWARD ADJ.

**Card
Guide
Should Rest
Lightly On
Platen**

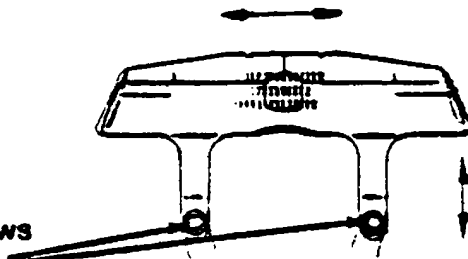


**Loosen Screws To
Adjust.**

**Set Multi-Copy
Lever Forward
To Properly
Locate The
Platen Depth.**

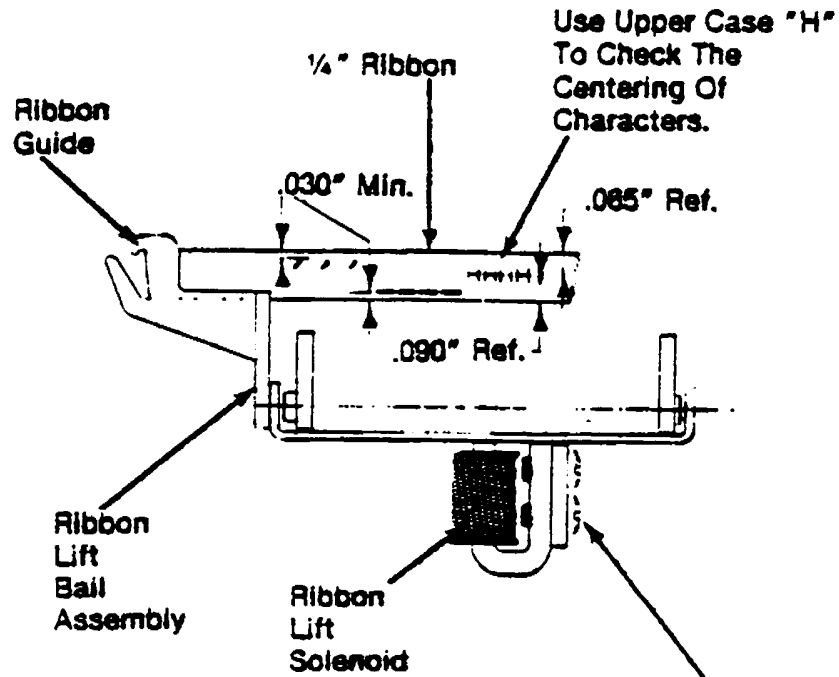
**HORIZONTAL AND HEIGHT
ADJUSTMENT**

**To Adjust,
Loosen
Shoulder
Head Screws
And Align
Card Guide To
Pre-Printed
Upper Case I's.**



**After Adjustment, Slide
Carriage Assembly Back
And Forth, And Check For
Clearance Between Feed
Rollers And Card Guide.**

RIBBON LIFT HEIGHT ADJUSTMENT



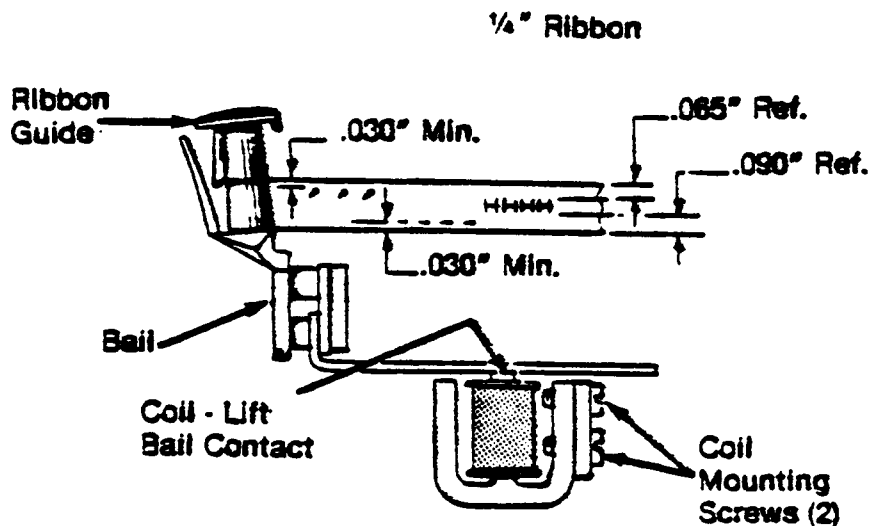
The APOSTROPHE And UNDERSCORE are Representative Of Characters That Print Near The Upper And Lower Edge Of The Ribbon.

Loosen The Solenoid Mounting Screws, Energize The Solenoid, And Adjust The Ribbon Height So That An "APOSTROPHE" Prints At Least 0.030" Below The Top Edge Of The Ribbon And An "UNDERSCORE" Prints At Least 0.030" Above The Bottom Edge Of The Ribbon.

RIBBON LIFT HEIGHT ADJUSTMENT

DUAL RIBBON OPTION

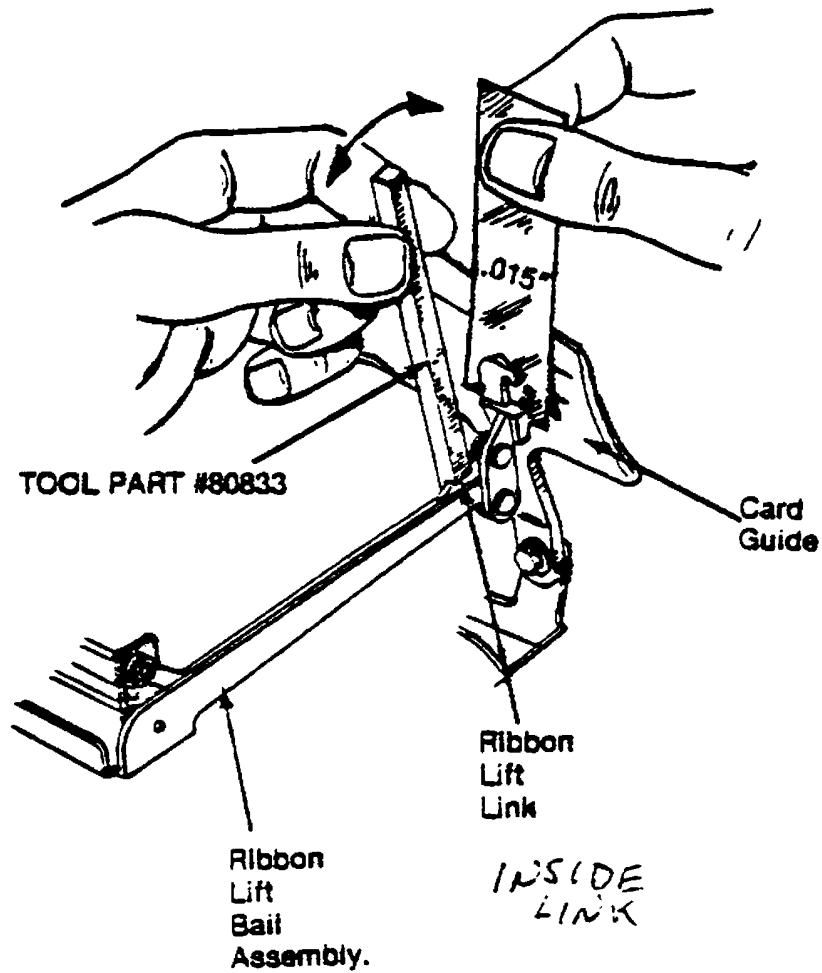
NOTE: The "APOSTROPHE" And "UNDERSCORE" Are Used As Examples Of Characters That Print Near The Top And Bottom Edge Of The Ribbon. Other Characters Could Be Used Where Applicable.



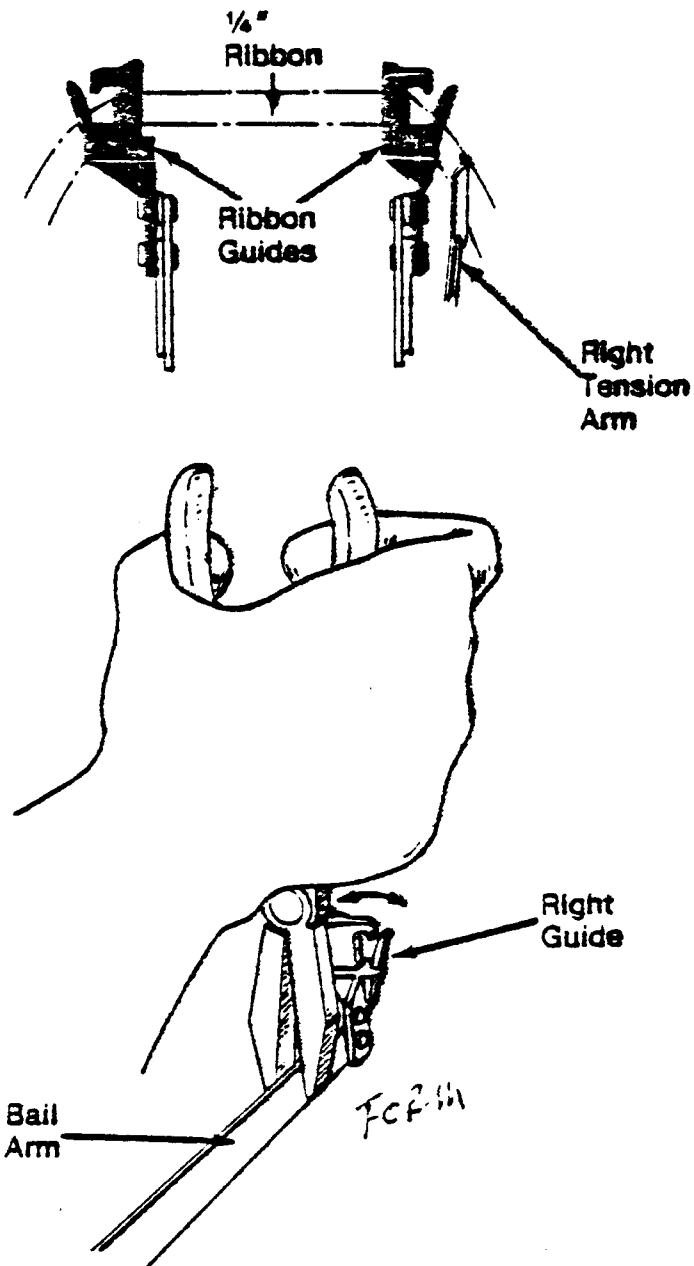
Loosen The Coil Mounting Screws,
Energize The Coil
Adjust The Ribbon Height So That
An "APOSTROPHE" Prints At Least 0.030"
Below The Top Edge Of The Ribbon, And
An "UNDERSCORE" Prints At Least 0.030"
Above The Bottom Edge Of The Ribbon.

RIBBON LIFT SPACING ADJUSTMENT

NOTE: Platen And
Card Guide Adjustment
Must Be Made
Prior To This
Alignment.

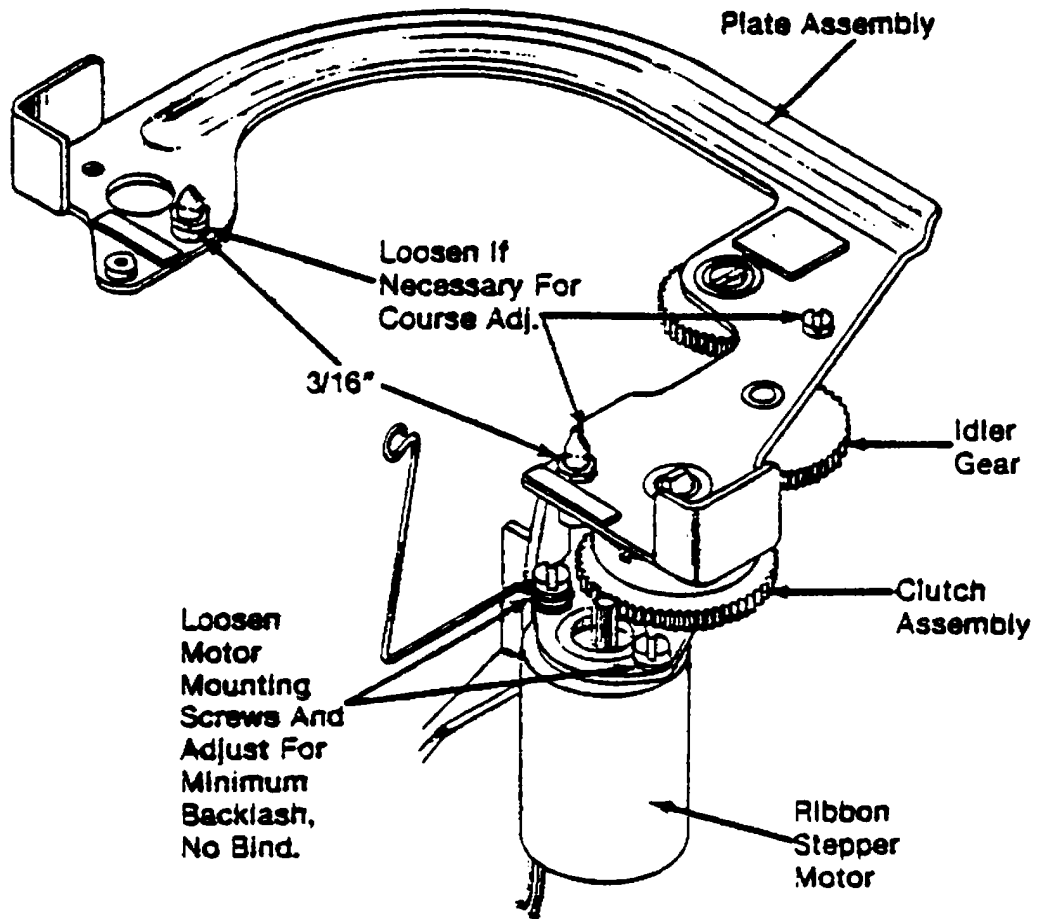


RIBBON TRACKING ADJUSTMENT



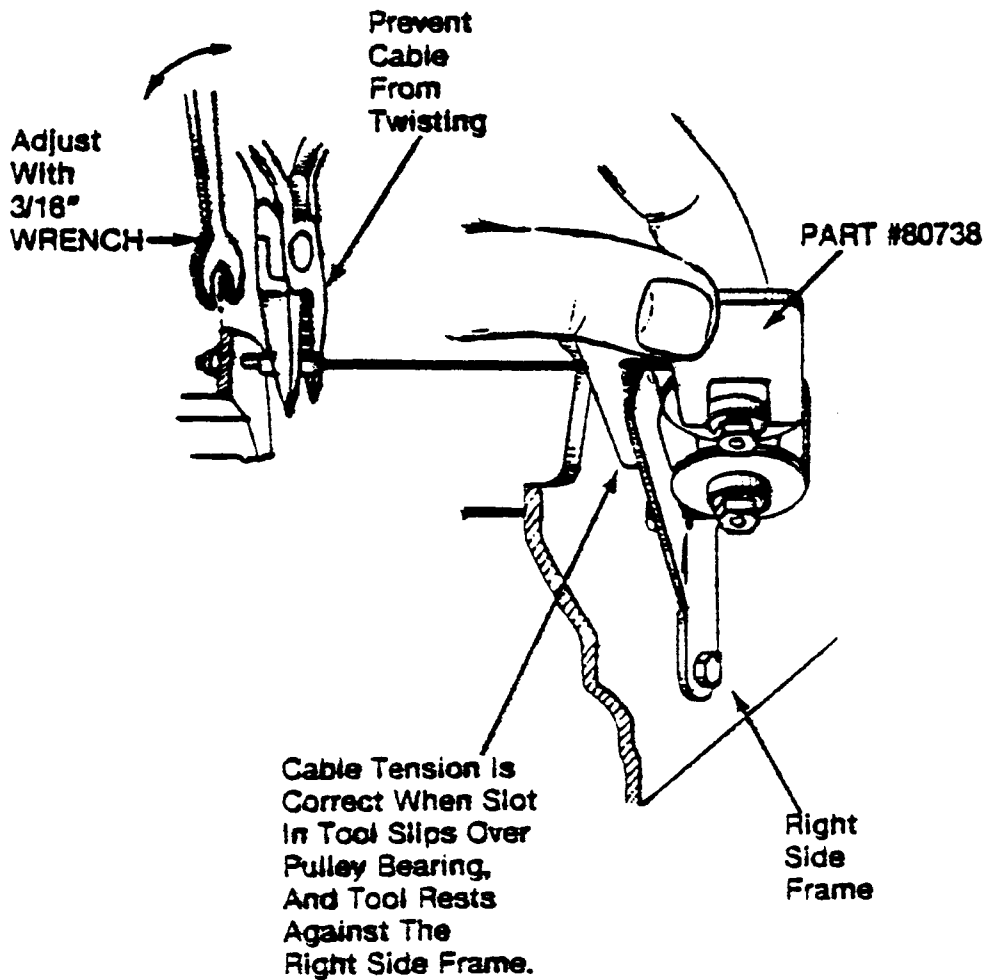
Adjust Ribbon Guides
For Correct Tracking,
No Ribbon Curling

RIBBON DRIVE GEAR ADJUSTMENT



CABLE TENSION ADJUSTMENT

(S5-45; SM3-35,-45)



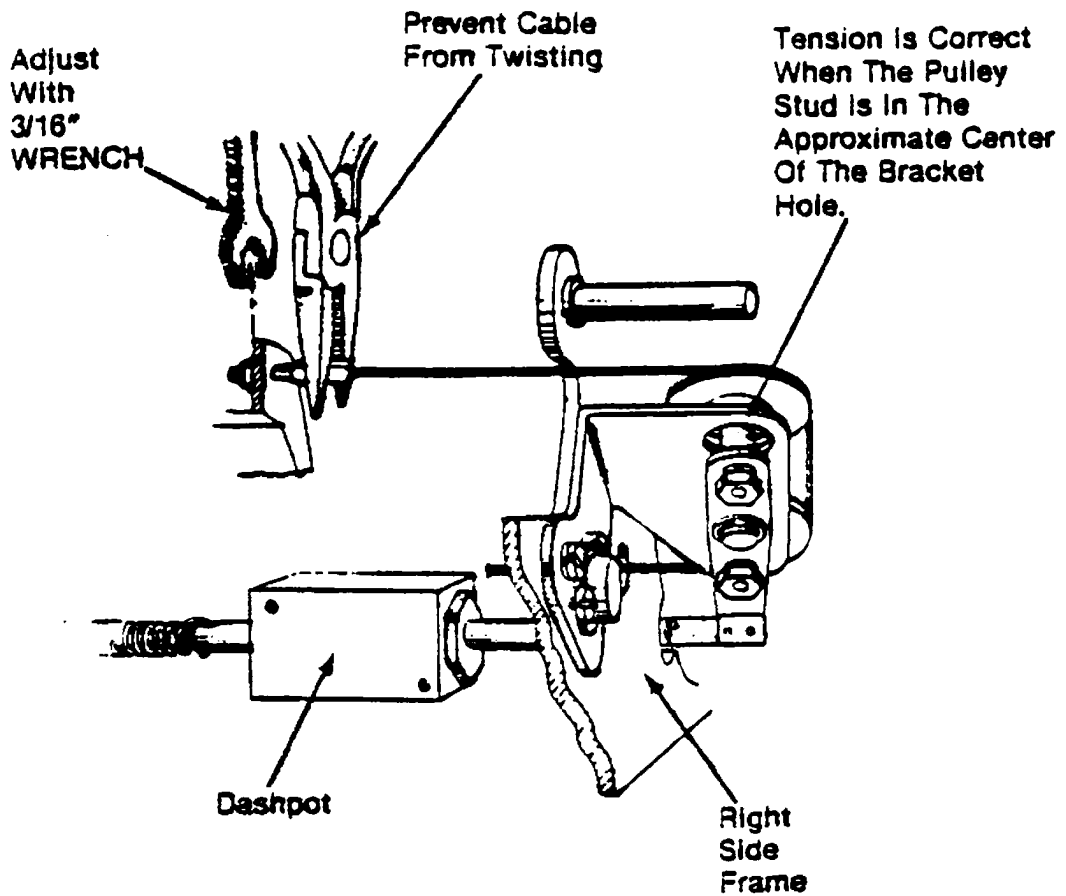
TENSIO-METER

CHECKLINE MODEL = DXX-2 KG.
ELECTROMATIC EQUIPMENT CORP.
CHENNAI, INDIA.

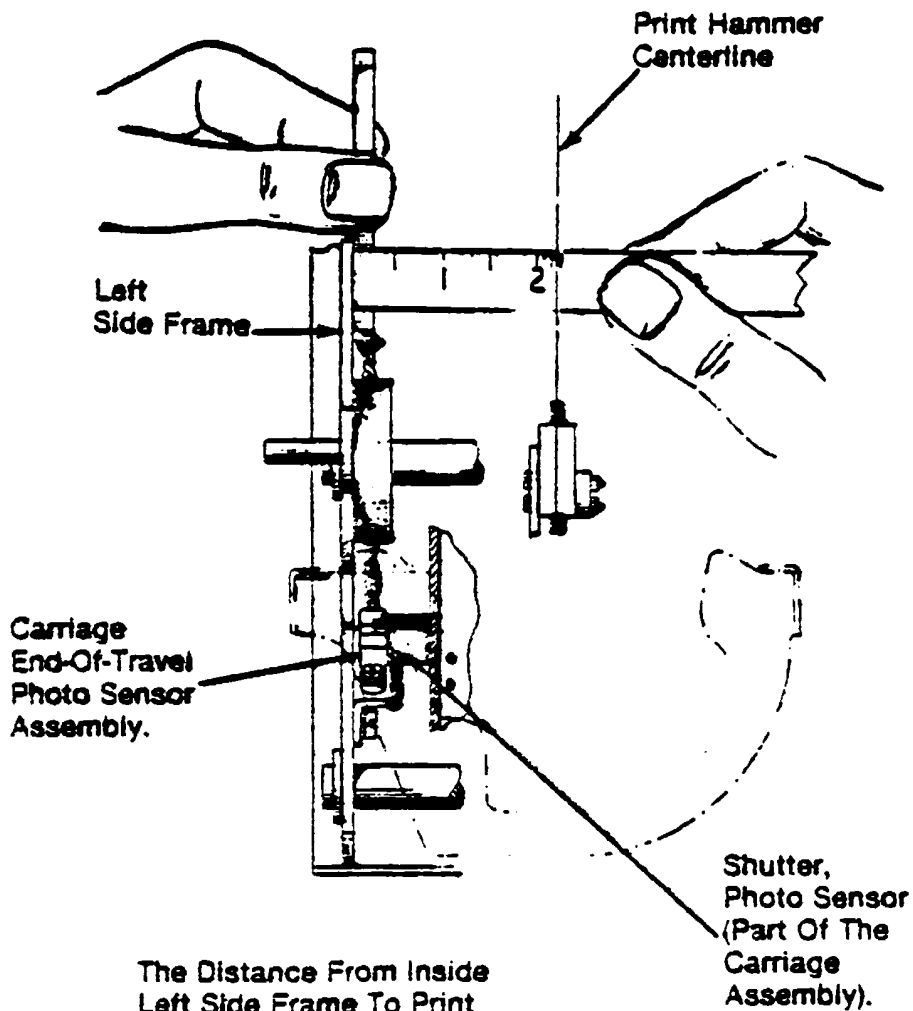
MODEL IN INSTRUMENT

CABLE TENSION ADJUSTMENT

(S5-55; SM3-55,-X30,-X40, WT, TT)



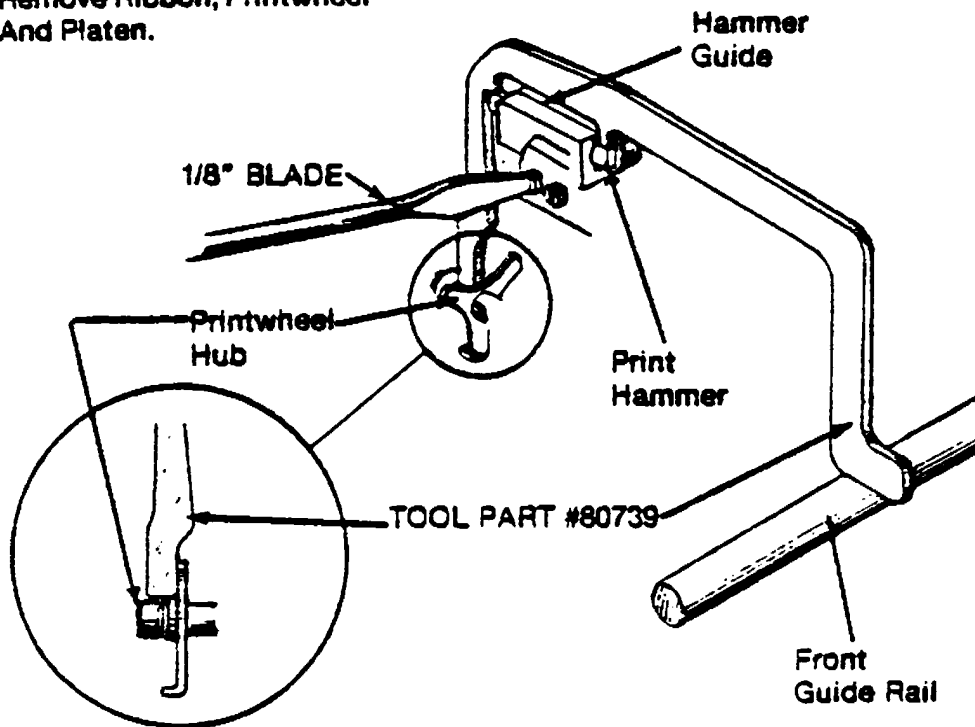
CARRIAGE END-OF-TRAVEL SENSOR ADJUSTMENT



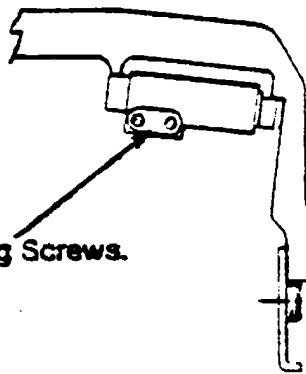
The Distance From Inside Left Side Frame To Print Hammer Centerline is $2.025" \pm .020"$ After Printer Is Initialized.

PRINT HAMMER VERTICAL ADJUSTMENT (HEIGHT AND ANGLE)

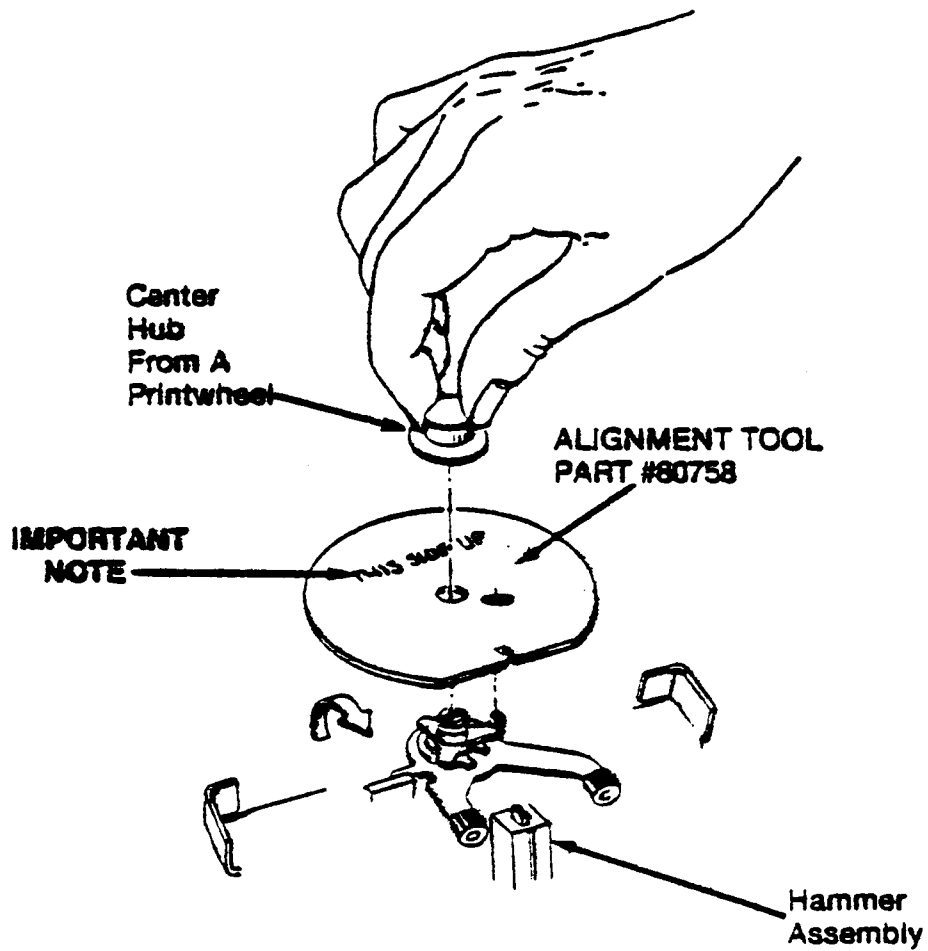
Remove Ribbon, Printwheel
And Platen.



Loosen Hammer Assembly Mounting Screws.
Use The #80739 Tool As Shown,
For Making The Initial Settings.
Final Adjustment Depends On The
Quality Of A Print Sample.

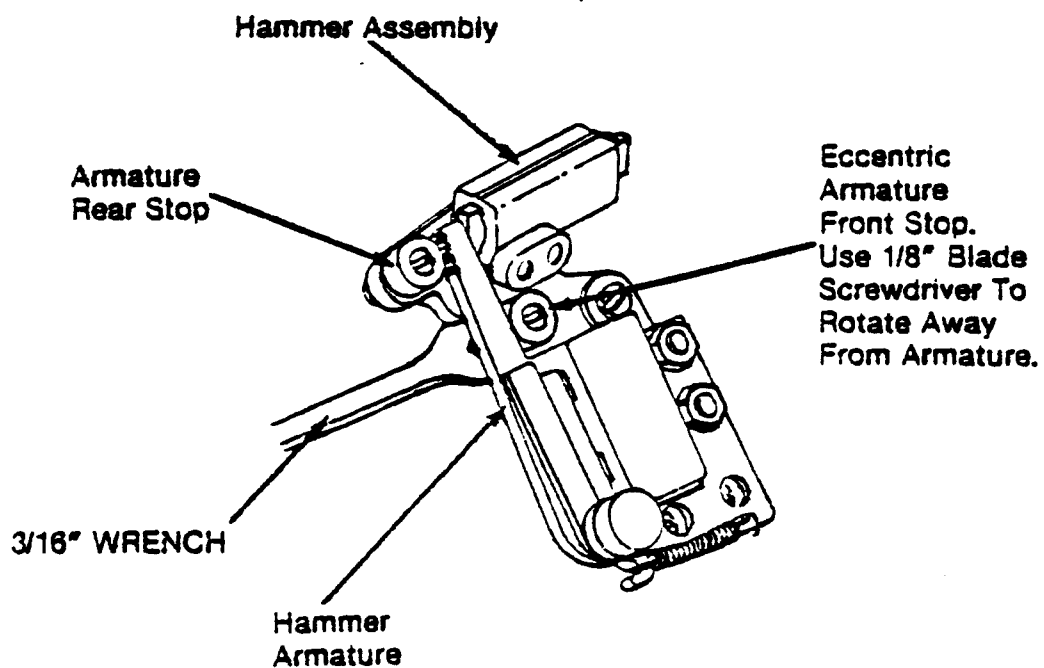


HAMMER ARMATURE CORE ADJUSTMENT (PENETRATION), STEP 1



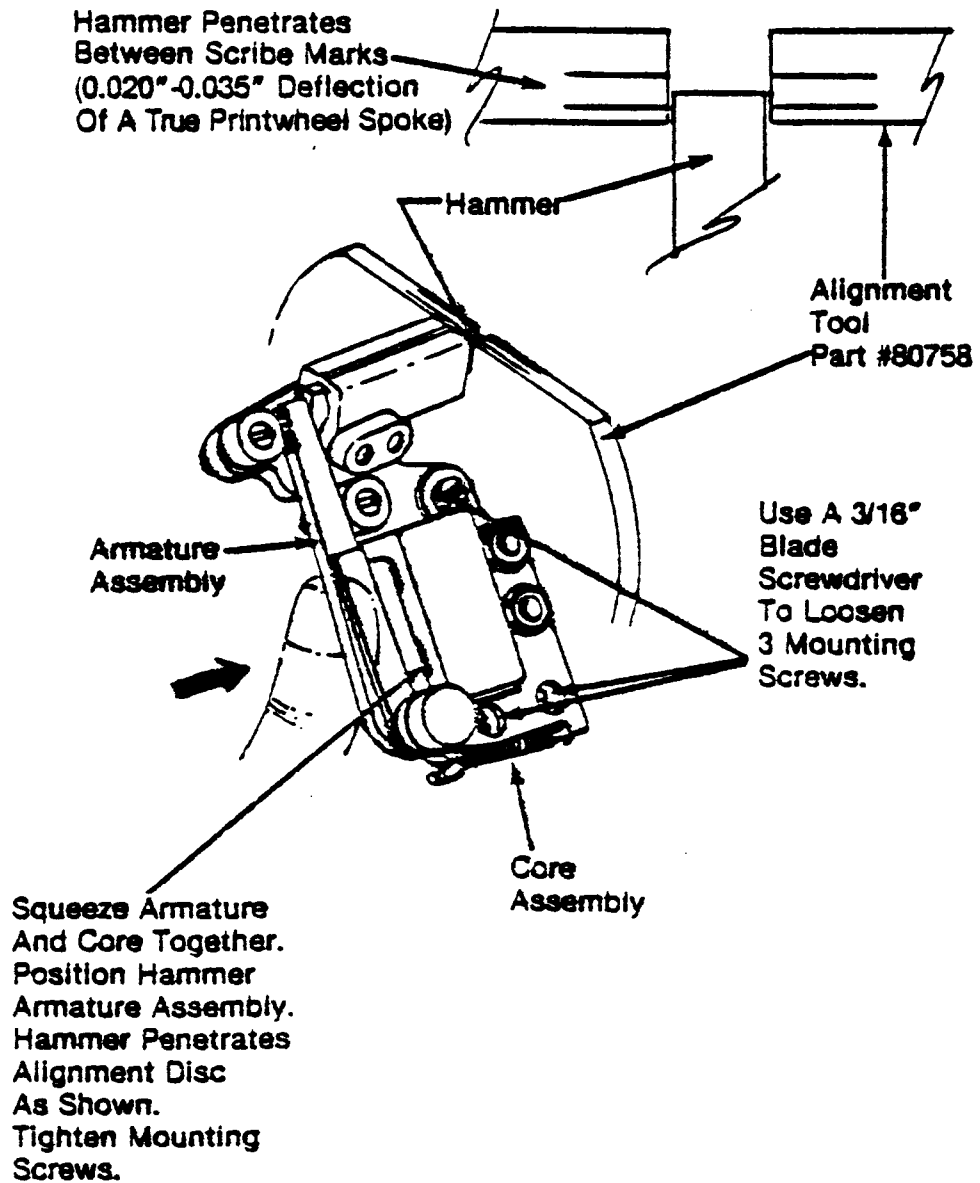
Remove Ribbon, Printwheel.
Tilt Inner Carriage.
Install Alignment Tool, #80758.

HAMMER ARMATURE CORE ADJUSTMENT (PENETRATION), STEP 2

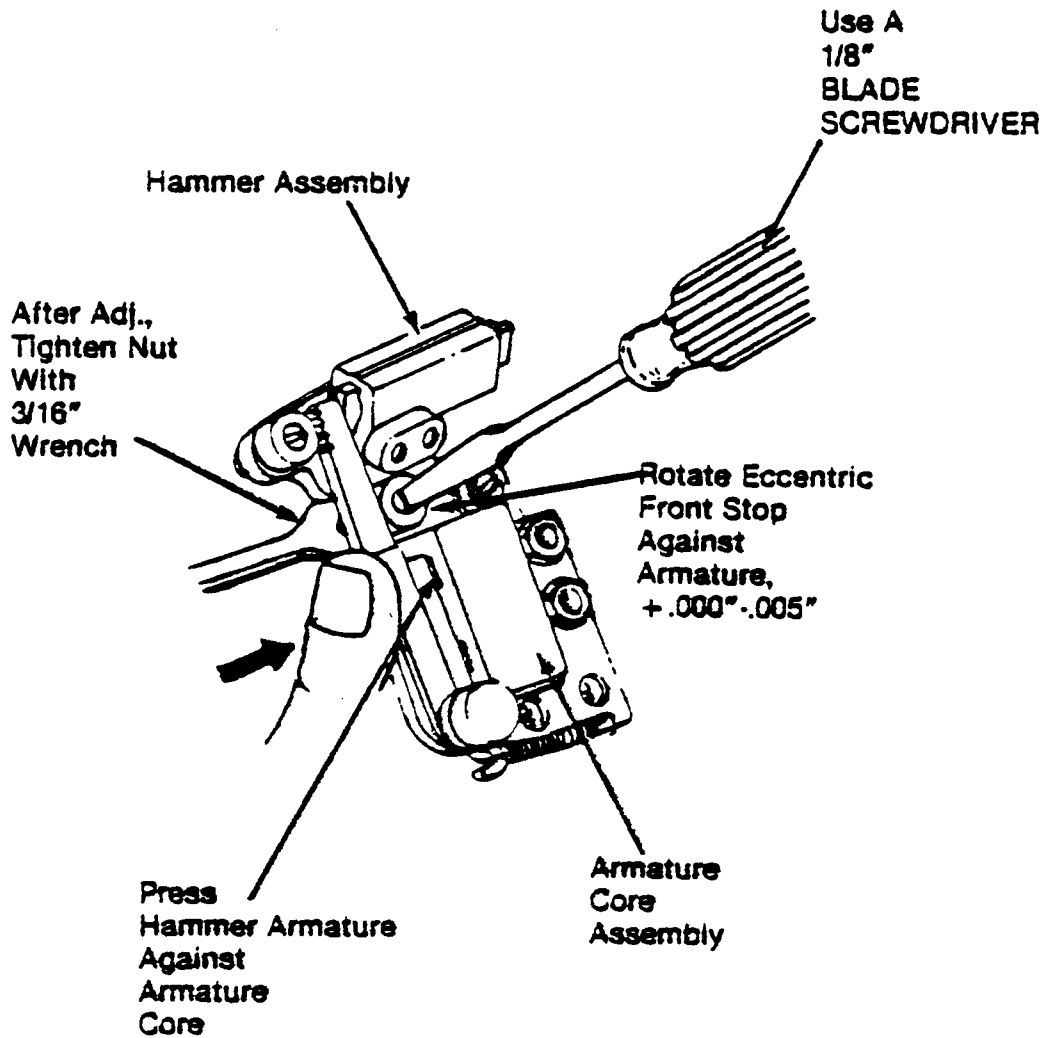


Rotate Front Stop Away From
Armature Prior To Core Penetration
Adjustment In Step 3.

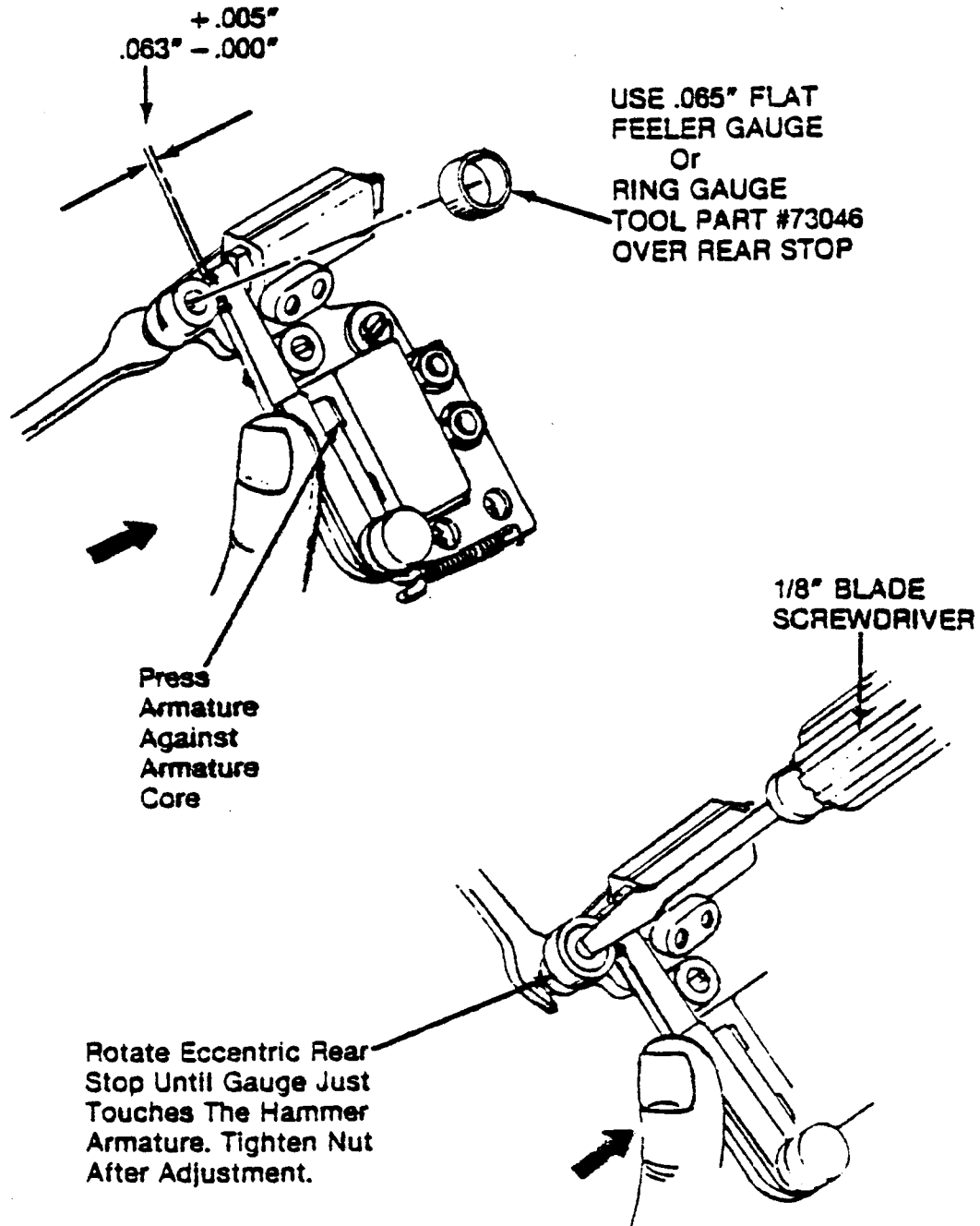
HAMMER ARMATURE CORE ADJUSTMENT (PENETRATION), STEP 3



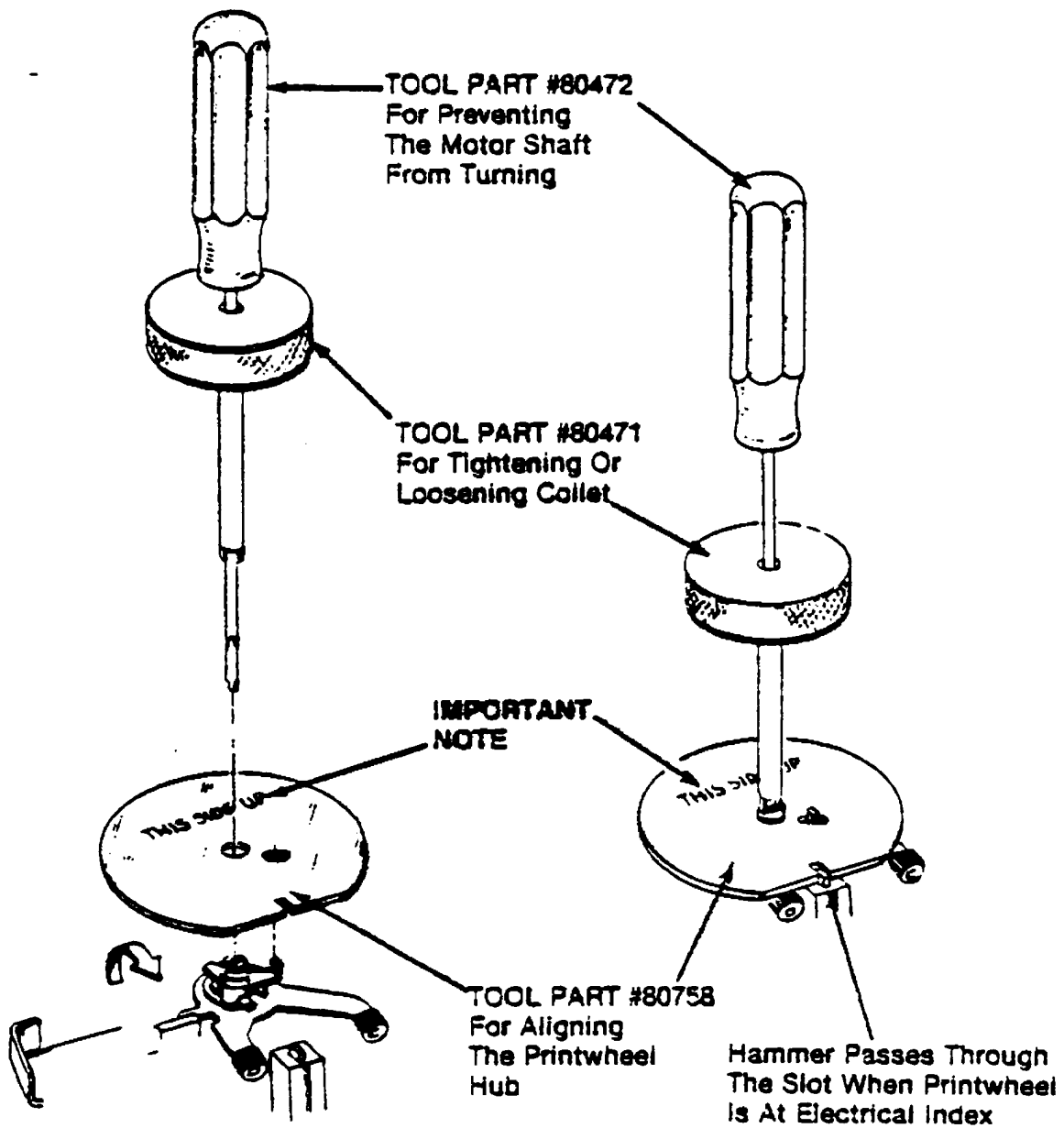
HAMMER ARMATURE CORE ADJUSTMENT (FRONT STOP), STEP 4



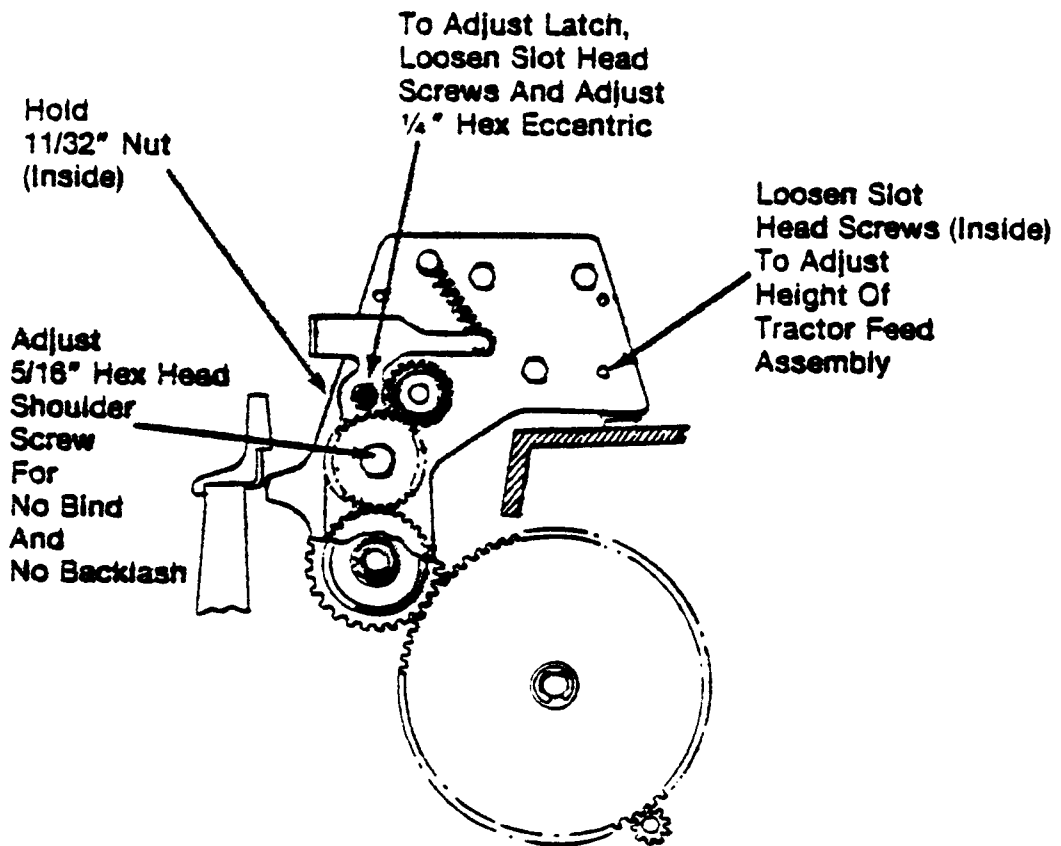
HAMMER ARMATURE CORE ADJUSTMENT (REAR STOP), STEP 5



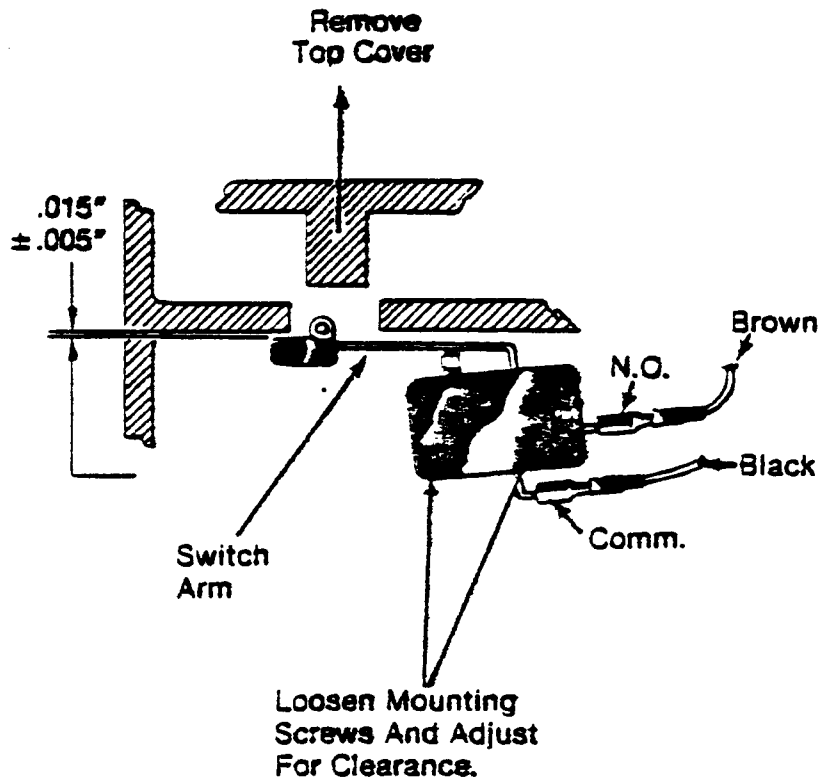
PRINTWHEEL HUB (INDEX) ADJUSTMENT



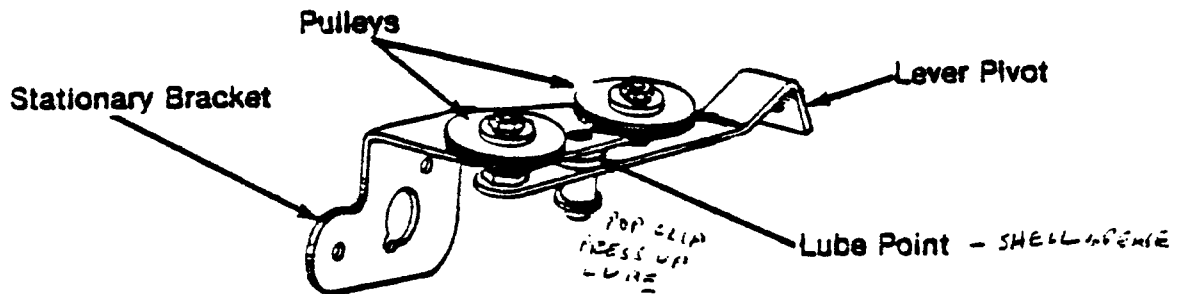
TRACTOR FEED ADJUSTMENTS



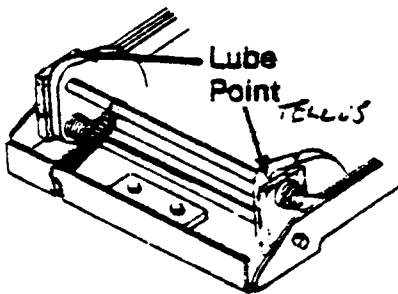
COVER INTERLOCK SWITCH ADJUSTMENT



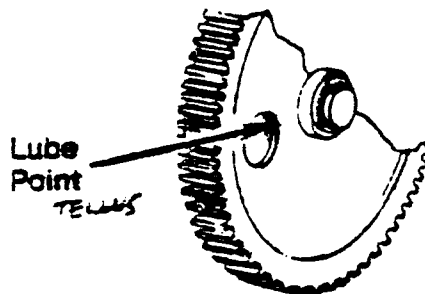
6 MONTH OR 1,000 HOUR LUBRICATION



CARRIAGE PULLEY LEVER LUBRICATION
(S5-55; SM3-55, -X30, -X40, WT, TT)



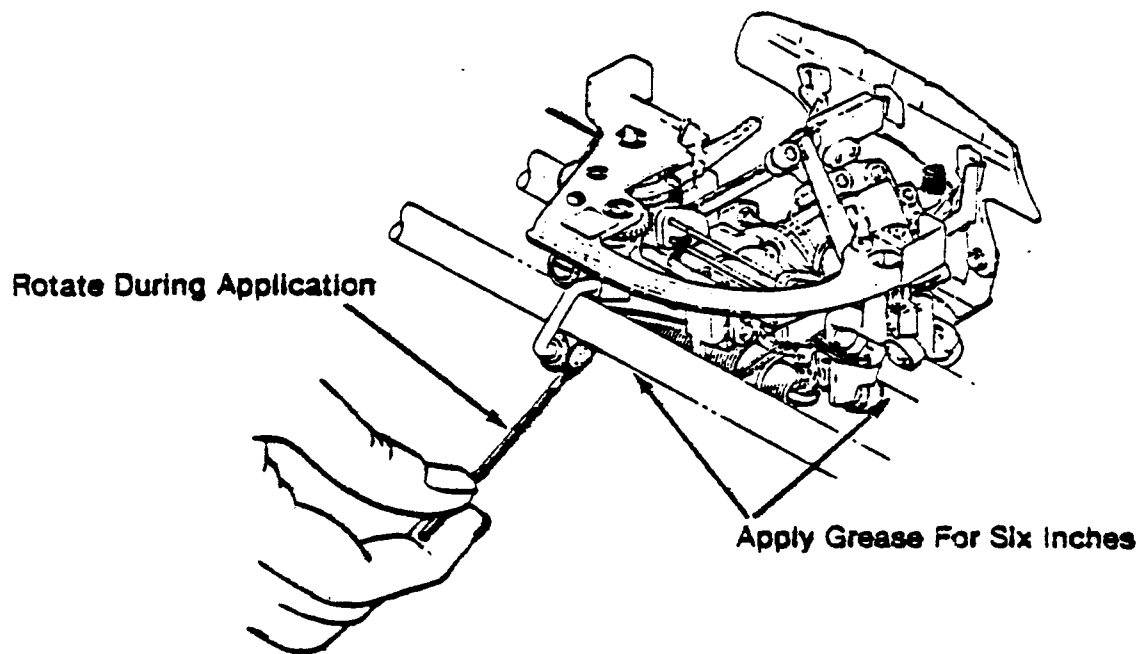
RIBBON BAIL
LUBRICATION



PAPER FEED IDLER
GEAR LUBRICATION

LUBE WITH ONE DROP TELLUS OIL #80342

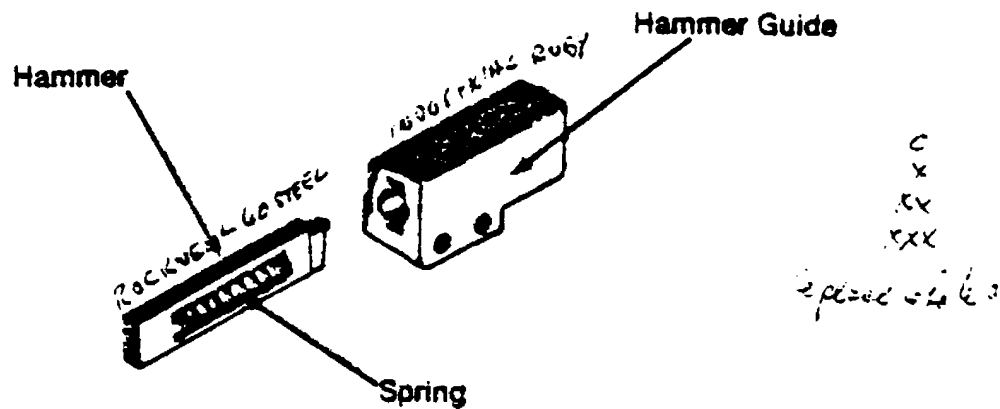
6 MONTH OR 1,000 HOUR LUBRICATION CARRIAGE BEARINGS



LOWER CARRIAGE BEARINGS AND RAILS LUBRICATION

Clean With Isopropyl Alcohol. Apply
a Light Coating Of Shell Darina-AX
Grease #85179 As Shown.
Remove Excess

6 MONTH OR 1,000 HOUR LUBRICATION PRINT HAMMER

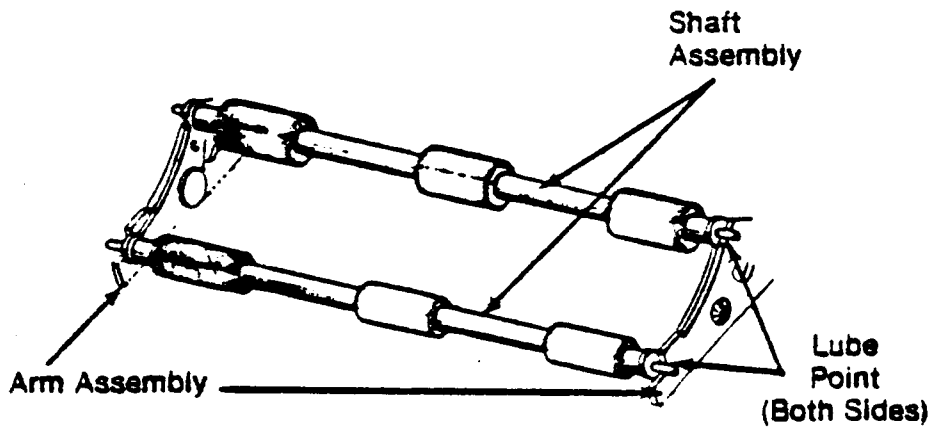


PRINTHAMMER ASSEMBLY LUBRICATION

Clean Hammer And Hammer Guide
With Isopropyl Alcohol. Lubricate
Lightly With Watch Oil #80341
And Re-Assemble.

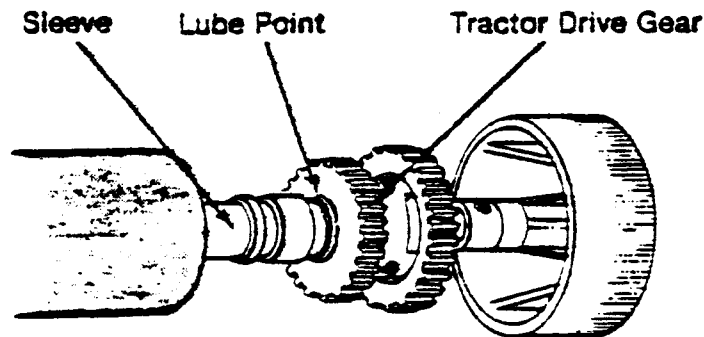
12 MONTH OR 2,000 HOUR LUBRICATION

Lubricate With One Drop Of Tellus Oil #80342 At The Lube Points. Clean Off Excess.



AND BAIL ROLLERS

FEED ROLLER SHAFT LUBRICATION



PLATEN SLEEVE LUBRICATION

Lubricate Platen Sleeves (1 On Each End Of Platen) With One Drop Of Tellus Oil. Clean Off Excess.

RECOMMENDED LUBRICANTS & CLEANERS

LUBRICANTS

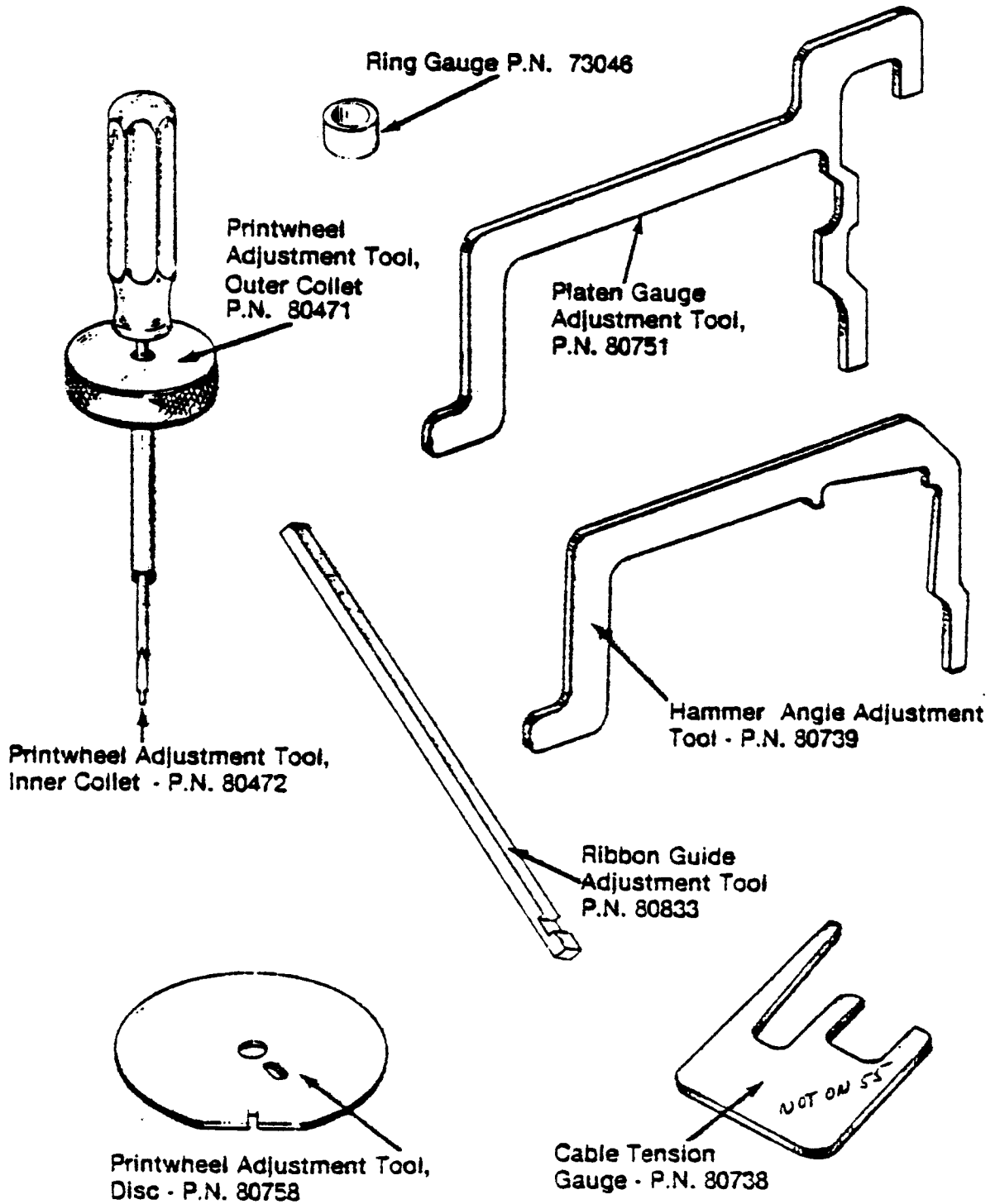
	QUME P/N
■ Watch Oil (Möbius Oil "Art. 8000")	85179-04
■ Tellus Oil (Shell Oil "Tellus 25")	80342-00
■ Polygrease	80346-00
■ Shell Darina-AX Grease	

55 (FULLY FIRST CO. SILENT)

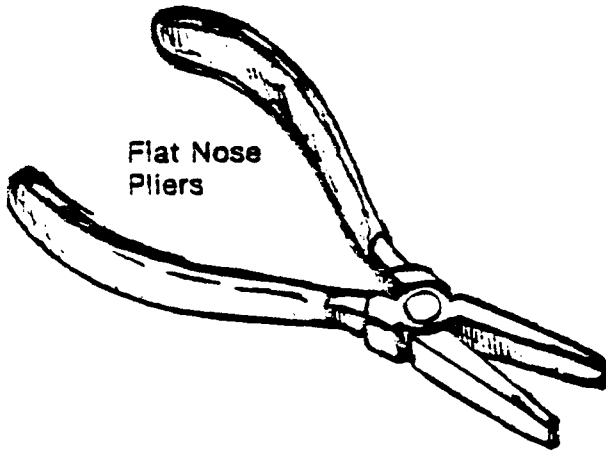
CLEANERS

- Isopropyl Alcohol (Metal Parts)
- Fedron (Platen, Feed Rollers, Sail Rollers)
- Zoom, Formula 409, Fantastic (Covers, Printwheel)
- Mild Soap and Warm Water (Column Scale, Card Guide)

QUME TOOL KIT, #73054



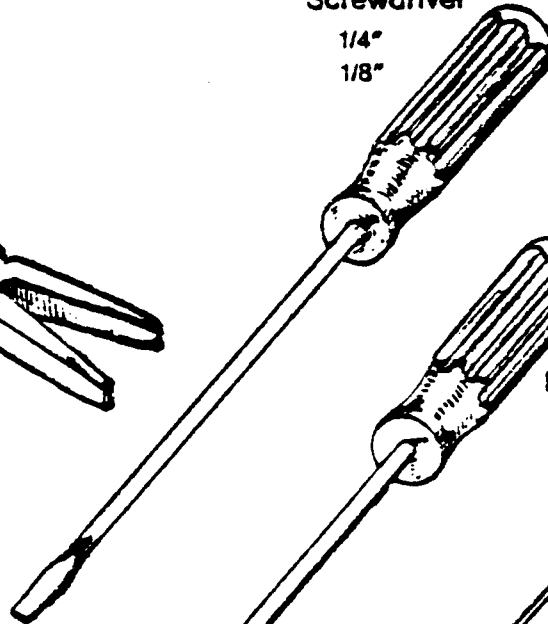
RECOMMENDED HAND TOOLS



Flat Nose
Pliers

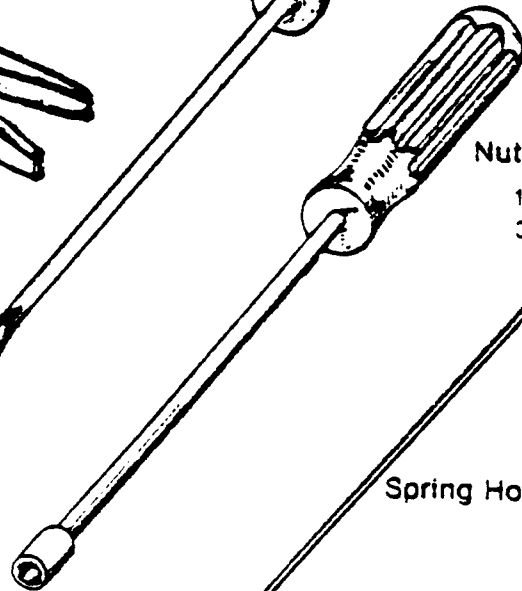
Screwdriver

1/4"
1/8"

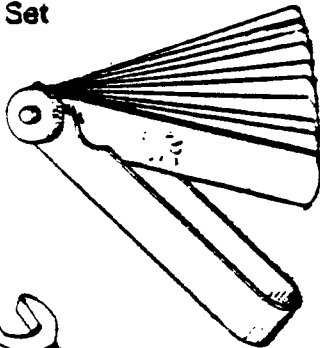


Nutdriver

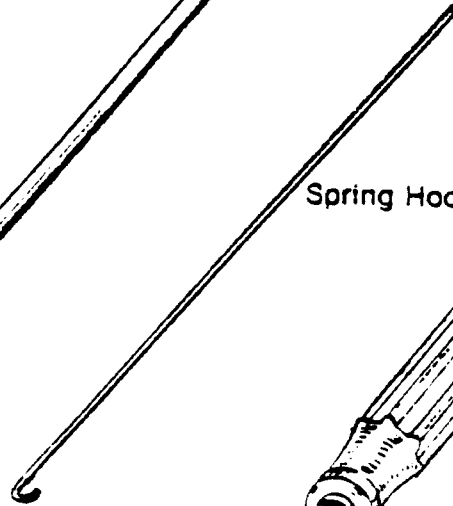
1/4"
3/16"



Feeler Gauge
Set

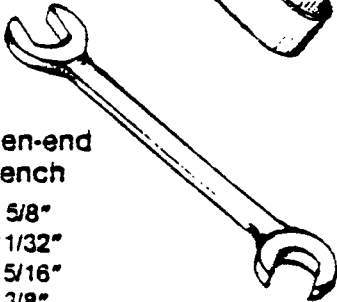


Spring Hook



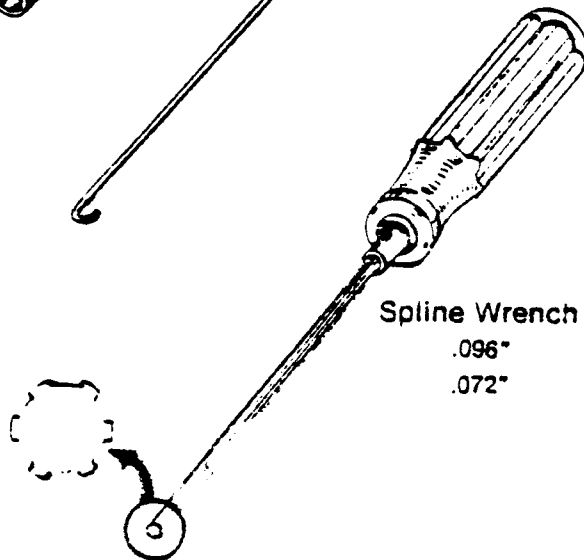
Open-end
Wrench

5/8"
11/32"
5/16"
3/8"
1/4"
3/16"

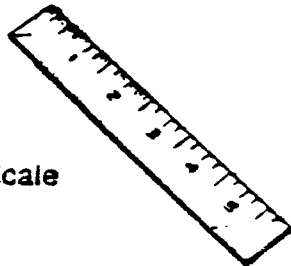


Spline Wrench

.096"
.072"

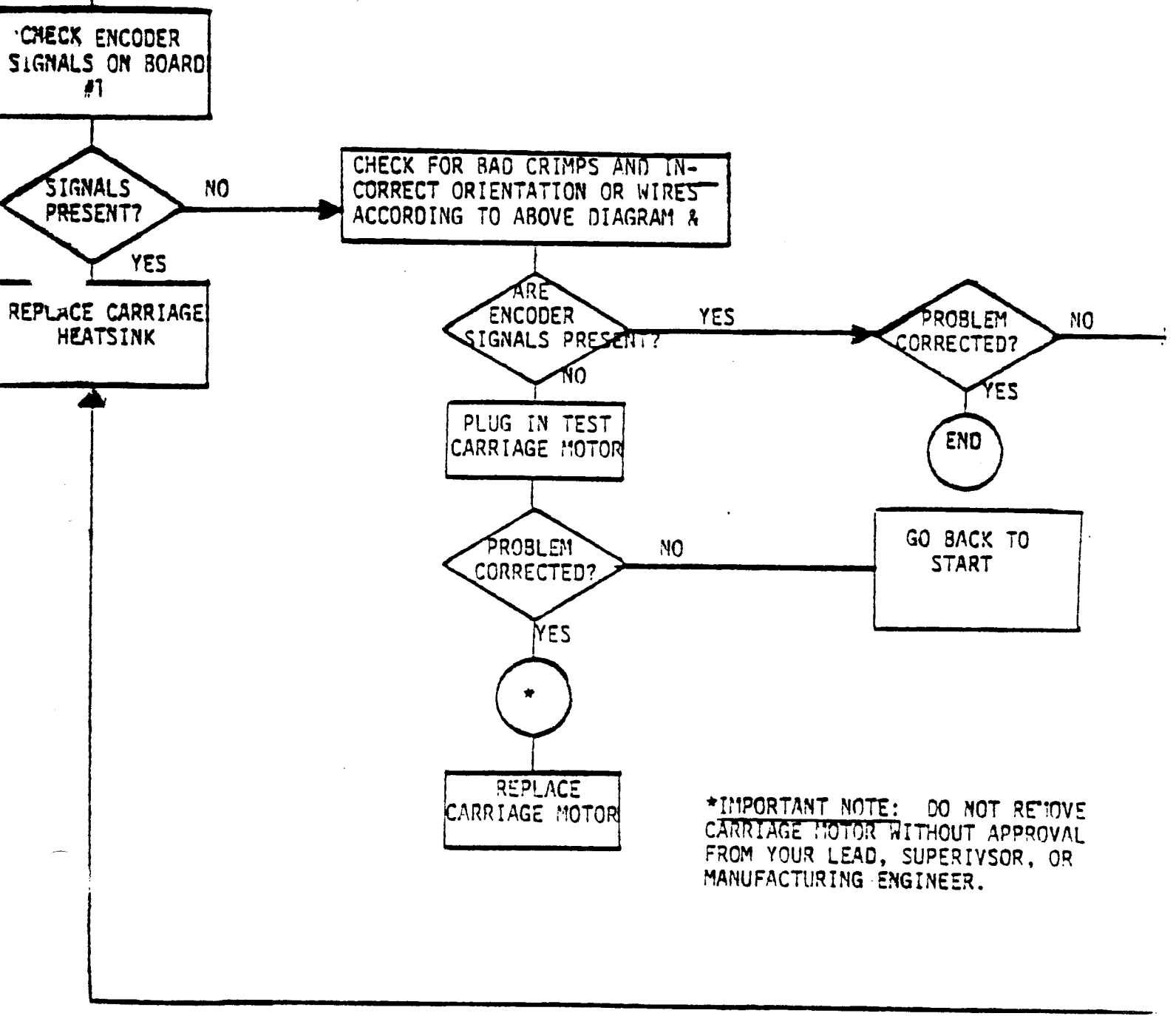
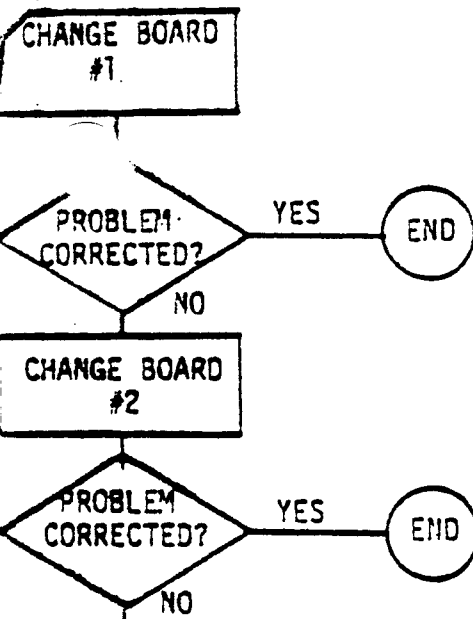
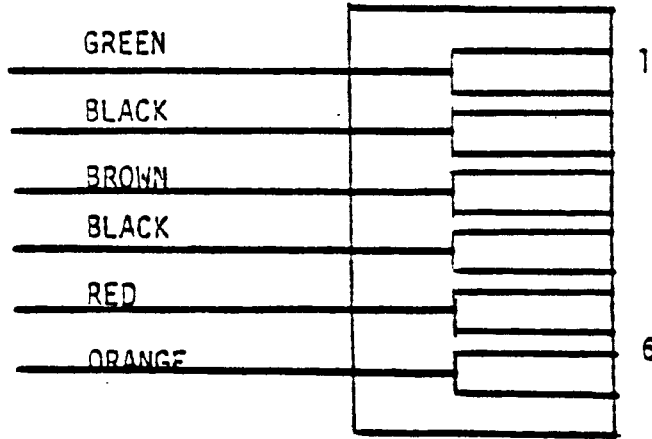


Scale



CARRIAGE CRASH (SLAM) PROBLEM

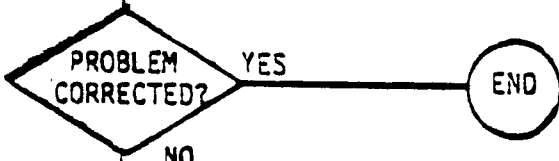
CARRIAGE MOTOR CONNECTOR



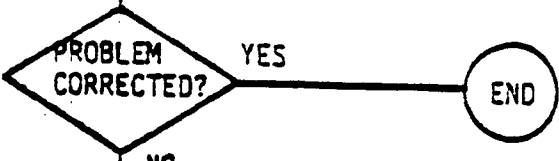
*IMPORTANT NOTE: DO NOT REMOVE CARRIAGE MOTOR WITHOUT APPROVAL FROM YOUR LEAD, SUPERVISOR, OR MANUFACTURING ENGINEER.

RIBBON LIFT PROBLEM

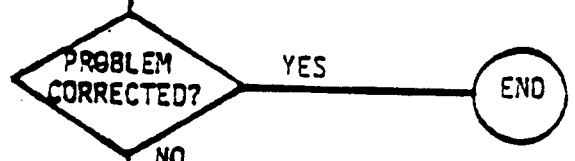
CHECK ALL MECHANICAL ADJUSTMENTS



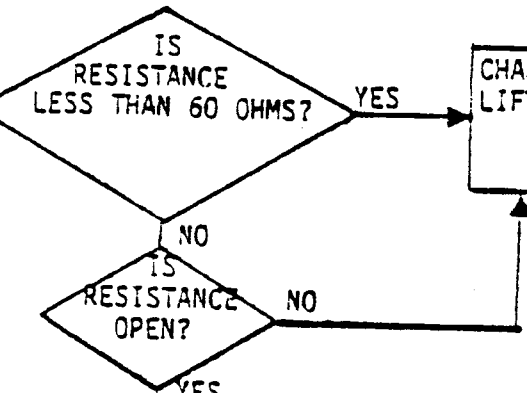
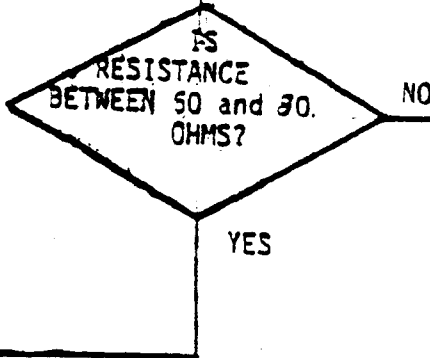
CHANGE BOARD #3



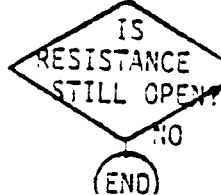
CHANGE BOARD #2



CHECK CONTINUITY BETWEEN C & D ON MOTHERBOARD CONNECTOR, J3

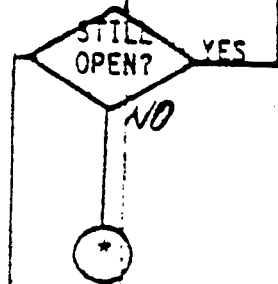


CHECK FOR BROKEN WIRES ON CONNECTOR AND REPAIR.



CHECK RESISTANCE OF COIL AT SPLICE

CHANGE RIBBON LIFT COIL

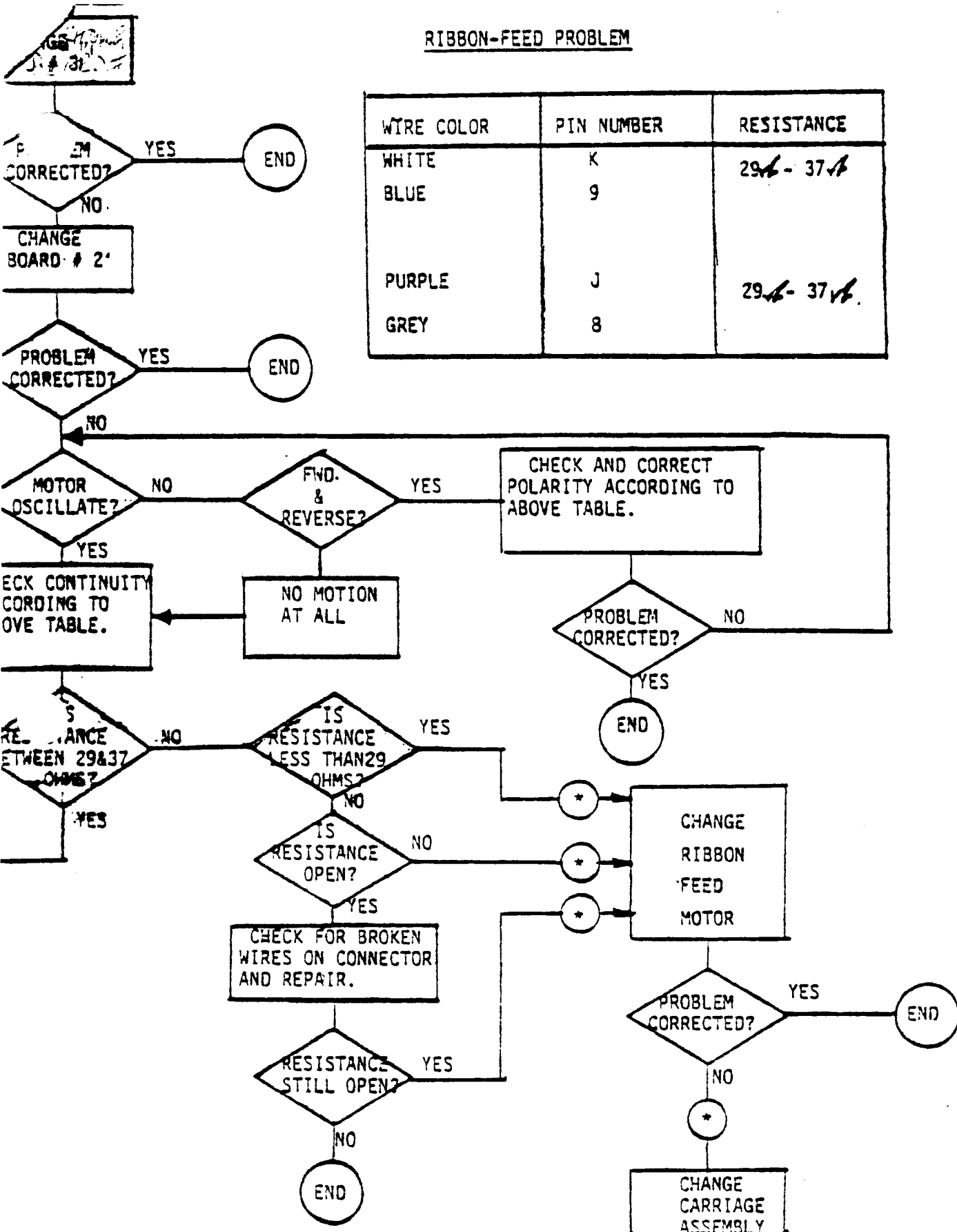


CHANGE CARRIAGE ASSEMBLY

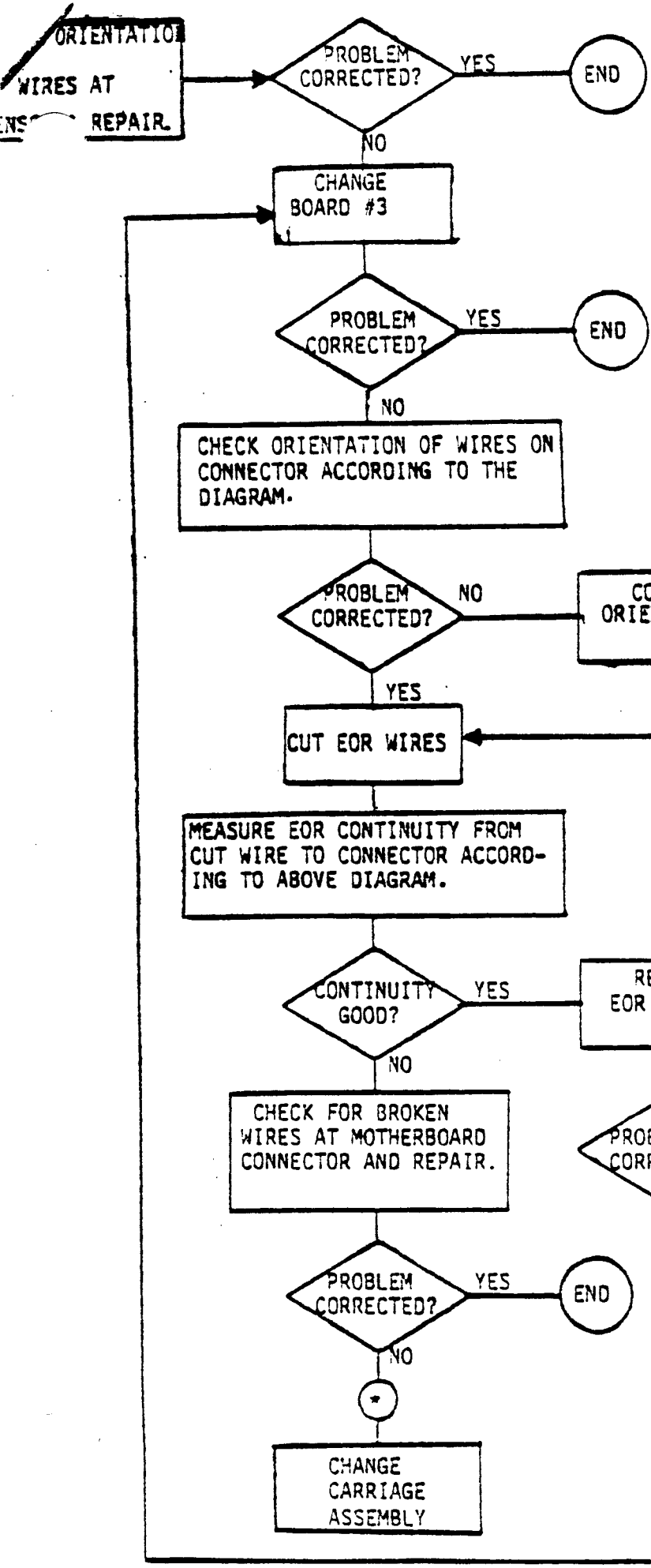
*IMPORTANT NOTE: DO NOT REMOVE CARRIAGE ASSEMBLY WITHOUT APPROVAL FROM YOUR SUPERVISOR, LEAD OR MFG. ENGINEER.

RIBBON-FEED PROBLEM

WIRE COLOR	PIN NUMBER	RESISTANCE
WHITE	K	29.6 - 37.6
BLUE	9	
PURPLE	J	29.6 - 37.6
GREY	8	



*IMPORTANT NOTE: DO NOT REMOVE CARRIAGE ASSEMBLY WITHOUT APPROVAL FROM YOUR LEAD, SUPERVISOR OR MANUFACTURING ENGINEER.



EOR PROBLEM

MOTHERBOARD CONNECTOR

WIRE COLOR	PIN NUMBER
YELLOW	H
YELLOW	H
BROWN	G
ORANGE	F

*IMPORTANT NOTE: DO NOT REMOVE CARRIAGE ASSEMBLY WITHOUT THE APPROVAL FROM YOU SUPERVISOR, LEAD OR MFG. ENGINEER.

PAPERFEED PROBLEM

CHECK FUSES
F4 and re-
place if bad.

PROBLEM
CORRECTED?
YES → END
NO → CHANGE BOARD #1

CHANGE
BOARD #1

PROBLEM
CORRECTED?
YES → END
NO → CHANGE BOARD #2

CHANGE
BOARD #2

PROBLEM
CORRECTED?
YES → END
NO → MOTOR OSCILLATE?

MOTOR
OSCILLATE?
YES → CHECK CONTINUTY
ACCORDING TO ABOVE
DIAGRAM
NO → MOTOR RUN IN
REVERSE?

MOTOR
RUN IN
REVERSE?
YES → CHECK AND CORRECT
POLARITY ACCORD-
ING TO THE ABOVE
DIAGRAM.
NO → NO MOTION
AT ALL

CHECK AND CORRECT
POLARITY ACCORD-
ING TO THE ABOVE
DIAGRAM.

PROBLEM
CORRECTED?
YES → END
NO → CHECK CONTINUTY
ACCORDING TO ABOVE
DIAGRAM

RESISTANCE
BETWEEN L4
YES → CHANGE PAPER
FEED FUSES.
NO → IS RESISTANCE
LESS THAN
1/2 Ω?

CHANGE PAPER
FEED FUSES.

PROBLEM
CORRECTED?
YES → END
NO → IS RESISTANCE
LESS THAN
1/2 Ω?

IS RESISTANCE
LESS THAN
1/2 Ω?
YES → USE TEST MOTOR
NO → IS RESISTANCE
OPEN?

IS RESISTANCE
OPEN?
NO → USE TEST MOTOR
YES → CHECK FOR BROKEN WIRES
ON M.B. CONNECTOR AND
REPAIR

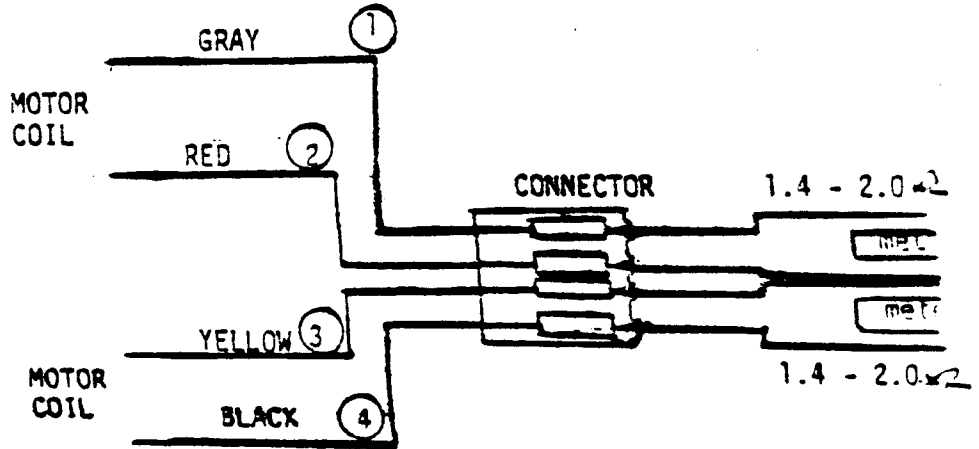
CHECK FOR BROKEN WIRES
ON M.B. CONNECTOR AND
REPAIR

RESISTANCE
STILL
OPEN?
YES → END
NO → USE TEST MOTOR

USE
TEST MOTOR

PROBLEM
CORRECTED?
YES → END
NO → GO BACK TO
START.

GO BACK TO
START.

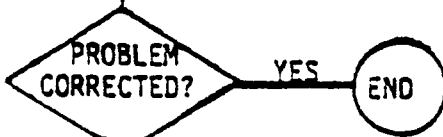


*IMPORTANT NOTE: DO NOT REMOVE PAPERFEED MOTOR WITHOUT THE APPROVAL FROM YOUR LEAD, SUPERVISOR OR MANUFACTURING ENGINEER.

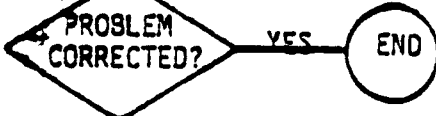
HAMMER PROBLEM

CHECK POWER SUPPLY CONNECTIONS

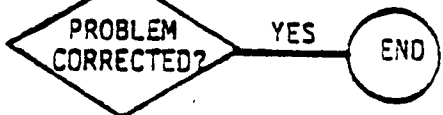
CHECK ALL MECHANICAL ADJUSTMENTS & SWITCHES AND MAKE CORRECTIONS.
(HAMMER SWITCH IS ON BOARD #3)



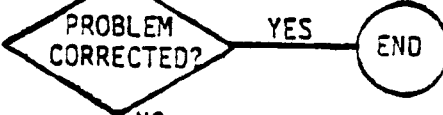
CHANGE BOARD #3



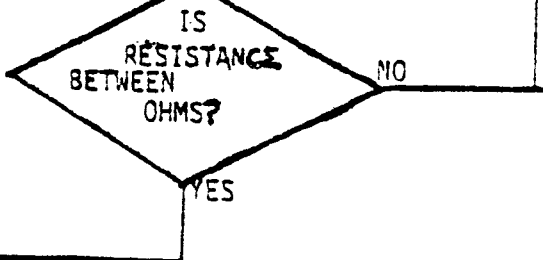
CHANGE BOARD #2



CHECK HAMMER RESISTOR (5 OHMS) FOR BAD CONNECTION OR WRONG RESISTANCE. CORRECT IF BAD.



CHECK CONTINUITY BETWEEN PINS 3 & 5 ON MOTHERBOARD CONNECTOR, J3.



* IMPORTANT NOTE: DO NOT REMOVE CARRIAGE ASSEMBLY WITHOUT APPROVAL FROM YOUR SUPERVISOR, LEAD OR MFG. ENGINEER.

