ISP Stitching & Bindery Products

OWNERS MANUAL

MODEL 306 306-A 306-B 306-C

For Models With *M2000* Stitching Heads And Serial Numbers 5161 and higher

CONTENTS

Section 1 INTRODUCTION

- 1. Model and Serial Number
- 2. Product Specifications

Section 2 SAFETY PRECAUTIONS AND PROCEDURES

- 4. Safety
- 4. Safety Guards/Cover

Section 3 ASSEMBLY, LUBRICATION, INSTALLATION

- 5. Before Unpacking
- 5. After Unpacking
- 5. Assembly
- 6. Threading wire and adjusting wire straightners
- 7. Lubrication-Felt Pads
- 8. Lubrication-Stitcher Head
- 9. External Lubrication
- 10. Internal Lubrication

Section 4 OPERATION

- 11. General Stitching
- 11. Table Stitching Using Work Trip
- 11. Table Stitching Using Foot Trip
- 11. Stitch Repeat
- 11. Hand Jog
- 12. Master and Secondary
- 12. Work Guides:

Side Guides

Corner Stitch Guides

12. Changing Work Thickness

USE REPLACEMENT PARTS
DESIGNED AND
MANUFACTURED ONLY BY
INTERLAKE SPECIFICALLY FOR
YOUR M2000 STITCHER

Section 5 MAINTENANCE, TROUBLE SHOOTING AND ADJUSTMENT

- 13. General
- 13. Recommended Spare Parts
- 13. Cleaning and oiling
- 13. Stitching Adjustments
- 13. To Equalize Both Legs of Stitch
- 14. Trouble Shooting-M2000 Head
- 17. Trouble Shooting-Drive
- 20. Insufficient or Excessive Compression
- 20. Table/Clincher Bracket Adjustment
- 20. Clincher
- 21. Clincher Point Height Adjustment
- 21. Reversing or Replacing Clincher Points
- 22. Head/Clincher Alignment
- 22. Bender bar
- 23. Bender bar Friction Plug
- 23. Driver Bar
- 24. Bender Bar Latch
- 24. Grip, Grip Release Slide and Faceplate
- 25. Wire Cutters
- 26. Wire cutter Operating Slide
- 26. Proper Wire
- 26. Rotator
- 27. Wire Straighteners
- 28. Supporter
- 28. Tension Pawl
- 28. Work Trip
- 29. Stitcher Head Disassembly
- 31. Drive/Frame Disassembly

Section 6 PARTS LIST

- 35. Drive/Frame
- 40. M2000 Head Stitcher

Section 7 ELECTRICAL

- 42. Electrical Schematic (115 V.A.C.)
- 43. Electrical Schematic (230 V.A.C.)

Section 1 INTRODUCTION

Here are the instructions on how to install operate, maintain, and make repairs on your

MODEL 306

Model 306 Seria	al Number	
Model 306's M2	2000 Head Sti	cher Serial Number

When ordering parts or requesting information, please state: Quantity required, part number, part name, model and serial number of your stitcher.

Your stitcher with the M2000 Stitching Head has been engineered and developed to provide you with the finest equipment available for your stitching needs. With proper care and maintenance it will give you years of satisfactory efficient service. This manual shows you how to get top performance from your stitcher and is divided into 7 major sections.

Read the Model 306 Manual throughly. Study it carefully. Best stitching performance will be assured, if all the adjustments are made as instructed, so that you get the following desired results.

- 1. Good Cut-Off
- 2. Uniform wire draw
- 3. Equal leg length
- 4. Proper clincher alignment
- 5. Sufficient compression

MODEL 306

PRODUCT SPECIFICATIONS

Unit Weight: Overall: 30 Lbs.

Without Wire Spool: 25 Lbs.

Length

Width

Unit Envelope Size: Height

Overall: 19 3/4" 15" 10" Without Tables and Wire Guide: 15 1/4" 12 1/2" 4"

Wire (Interlake 417-0025)

Wire Material: 120,000 to 150,000 p.s.i. tensile strength

tinned steel wire

Wire Size: 25 Gauge (.020" Diameter)

Wire Spool Weight: 5 Lb. Spool (Fully Loaded Wire)

Stitching Speed 173 stitches per minute, full load capacity.

199 stitches per minute, minimum load

capacity.

Stitching Capacity (20 Lb. Bond Paper)

Minimum Stitching thickness adjustment .94" Wire Draw, Approx. 57,000 stitches

per 5 Lb. coil.

Maximum Stitching thickness adjustment 1.24" Wire Draw, Approx. 43,000 stitches

per 5 Lb. Coil.

Maximum Stitching thickness: 1/4"

Stitcher: M2000 Head CTTT-2605-T3

(Equipped with faceplate adjustment lever)

Table

Length: 10" Width: 9"

Optional Equipment:

Side Guides: Pop-Up/Pop Down pins in arms which adjust to 9 5/8" from center of clincher.

Corner Guides: Pop-Up/Pop Down pins in table for 45 degrees corner stitch when flat table stitching.

Foot Switch Assembly: To activate Model 306

MODEL 306

PRODUCT SPECIFICATIONS

Throat Depth: 4" Max.

Stitch Modes:

Work Trip (For Table Mode): Plug foot switch into rear of housing.

Foot Trip (For Saddle or Table Mode): Manual Switch Control.

Master-Secondary (For use with Plug master into 2nd-3rd units for

multiple stacked unit): side by side multiple stitch (4 1/2 in.

min. centers). Quick adjust for 3/16" to 4" throat depth.

Jog: Push in and turn knob, on rear of housing,

for manual forward or reverse operation.

Models:

	Solid Clinch	Activated Clinch
115 V.A.C.	Model 306	Model 306-B
230 V.A.C.	Model 306-A	Model 306-C

Electrical

Input: 115 V.A.C. 60 HZ 230 V.A.C. 50 HZ

(Models 306 & 306-B) (Models 306-A & 306-C)

Control Circuit: 12 V.D.C. 12 V.D.C

Motor: 1/20 HP, 90 V.D.C. 1/20 HP, 180 V.D.C.

Circuit Breakers: 1 AMP for 115 V.A.C. Input 1/2 AMP for 230 V.A.C. Input

Section 2 SAFETY PRECAUTIONS AND PROCESURES

SAFETY

- 1. Make sure electrical power is turned off before performing any adjustment or maintainence.
- 2. Keep hand, tools, hair, and clothing clear of stitching area.
- 3. Become familiar with the moving components of your machine. Keep fingers away from areas that could pinch or cut.
- 4. Observe your plant safety rules.
- 5. Exert "good housekeeping" in your work area. Keep it as clean and uncluttered as possible.
- 6. A well maintained machine is a safer machine. Clean and lubricate the machine at regular intervals. Check machine daily for broken or worn parts. Replace as necessary. DO NOT attempt to operate the machine if a part is broken.
- 7. Route all electrical cables away from pedestrian transportation lanes.
- 8. See "Safety Guards/Cover" information. It points out areas where additional caution should be exercised. If you are unsure how to safely operate or maintain your Stitcher, contact your Service Representative.

ATTENTION

LE CIRCUIT D'ALIMENTATION DESTINE A UNE UNITE DE LA SERIE 305/306 DOIT COMPORTER UN FUSIBLE OU UNE PROTECTION THERMIQUE CALIBREE A 15 AMP MAXIMUM. LA CAPACITE DE COURT CIRCUIT DU RESEAU NE PEUT PAS DEPASSER 2000 AMPS.

CAUTION

THE SUPPLY CIRCUIT FOR ANY 305/306 SERIES UNIT MUST USE A 15 AMP MAXIMUM FUSE OR CIRCUIT BREAKER. THE SHORT CIRCUIT CAPACITY OF THE SUPPLY CIRCUIT MUST NOT EXCEED 2000 AMPS.

SAFETY GUARDS/COVER

- A. Grey Plastic Cover: Covers frame, motor, mechanical, and electrical components.
- B. Front, Clear Plastic, Guard Assembly: A three position guard. In the fully downward position the guard is spring loaded to: cover the M2000 Head, and work trip adjustment knob; restrict access to the stitching area; depress a limit switch to allow the machine to operate. The guard can be swung up to its first detent position (about 70 deg.) to allow access to the work trip adjustment knob and lower portion of the M2000 Head. The guard is swung up to its second detent position (about 155 deg.) to allow total access to the M2000 Head for faceplate adjustment, lubrication, and wire threading.

DANGER

KEEP HANDS CLEAR OF STITCHING AREA

CAUTION

FOR YOUR SAFETY, MAKE SURE ALL COVERS ARE PROPERLY IN PLACE BEFORE OPERATING MACHINE

CAUTION

Do not operate stitcher until operating instructions have been read and understood-do not operate stitcher at anytime without work under the head.

Section 3

ASSEMBLY, LUBRICATION INSTALLATION

Note:

These instructions must be followed to insure proper installation, efficient operation and the prevention of serious damage to your stitcher.

Before Unpacking:

Examine the outside of the crate or carton for any visible damage. If damaged DO NOT UNPACK THE STITCHER. Notify the carrier who delivered the stitcher.

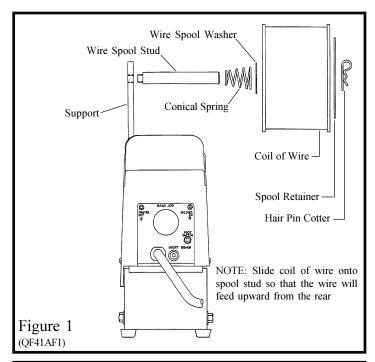
After Unpacking:

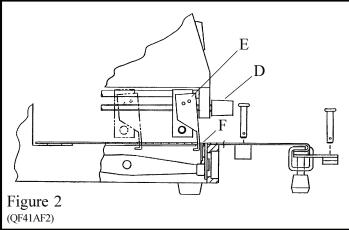
Examine your stitcher carefully for any damage in transit. If damaged, DO NOT INSTALL THE STITCHER. Notify your nearest representative and the carrier who delivered your stitcher.

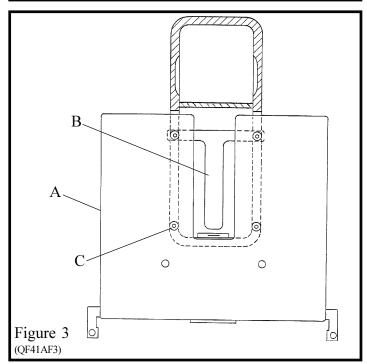
Make certain that you get a signed copy of the Carrier Inspector's Report of the damage incurred

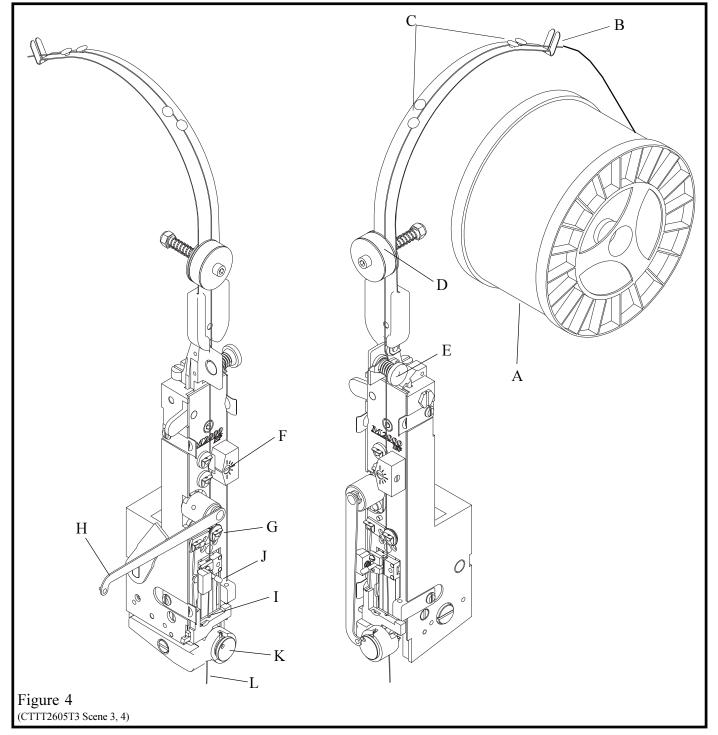
ASSEMBLY (FIGURES 1,2,3)

- 1. Place the Model 306 on a table or bench. Assemble per figure 1.
- 2. Turn Trip lever Knob (Index D) counter clockwise and move the work trip (Index E) all the way toward the clincher (Index F). Install the Rear Table Plate (Index B) and Table Assembly (Index A) to the stand using the four 8-32 x .375 flat head cap screws (Index C).
- 3. Install Wire Guide Spring into wire guide bracket of M2000 Head.









THREADING WIRE AND ADJUSTING WIRE STRAIGHTENERS (See fig. 4)

- 1. Draw wire by hand, from the the coil (Index A).
- 2. Thread the wire through the slot (Index B) at the end of the wire guide spring, through the wire guides (Index C), between the thin and thick felt wire wipes (Index D), through the upper wire straightener (Index E), and through the lower wire straightener (Index F).
- 3. Release the rotator operating spring (Index H) from the rotator and swing it to the left. Remove Rotator (Index K).
- 4. Thread the wire between the tension pawl and tension roll (Index G). Feed the wire through the wire cutter lead-in hole (Index I) in the bottom of the face plate.
- 5. Push grip post to left to open the grip (Index J). Insert wire and release the post so that the grip engages the wire for feeding into the rotator.

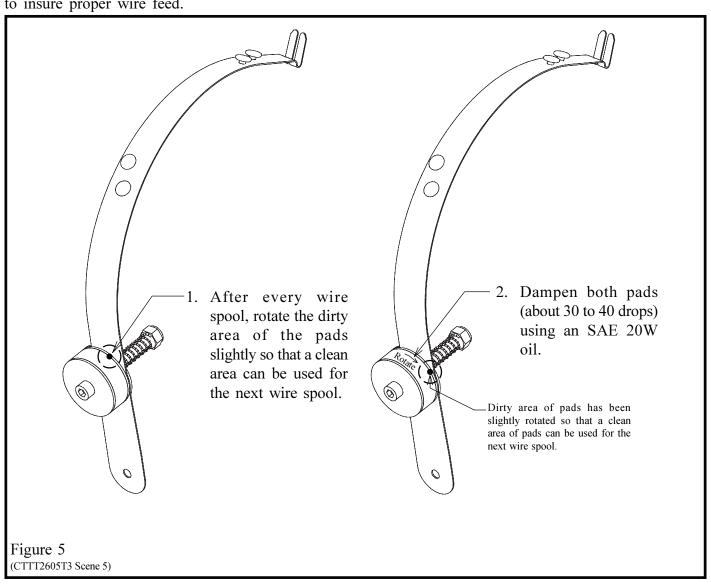
- 6. To check adjustment, hold open grip (Index J and pull about 1 1\2 feet of wire from below face plate. Cycle machine once by hand to cut wire. Cycle machine again by hand to observe wire straightness. The wire (Index L) should point straight down, prior to being cut, as shown in Figure 4.
- 7. Adjust the upper wire straightener, beginning at position shown, (Index E, Figure 4) so that the wire points straight down. Adjust the lower wire straightener, beginning at the 3:00 o'clock position, (Index F, Figures 4) so that the wire (Index L, Figure 4) feeds straight down.
- 8. Replace the rotator and rotator operating spring.

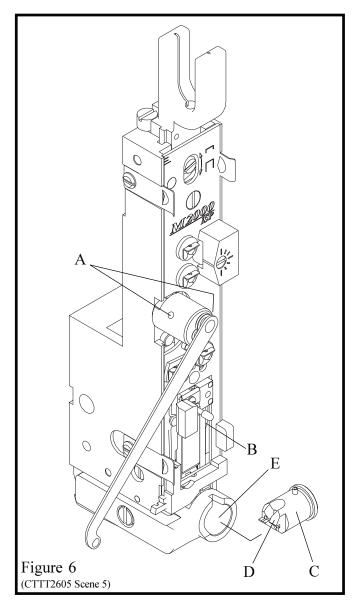
FELT WIPE PADS LUBRICATION AND MAINTAINANCE: (FIGURE 5)

IMPORTANT! In order for the stitchers to operate properly, the felt wire wipes <u>MUST</u> be rotated and dampened with SAE 20W oil before each new spool of wire (50,000 to 70,000 stitches). Replace felt pads when they become so dirty that they cannot be rotated to a clean spot.

NOTE:

When changing coils or wire sizes, check straightners to insure proper wire feed.

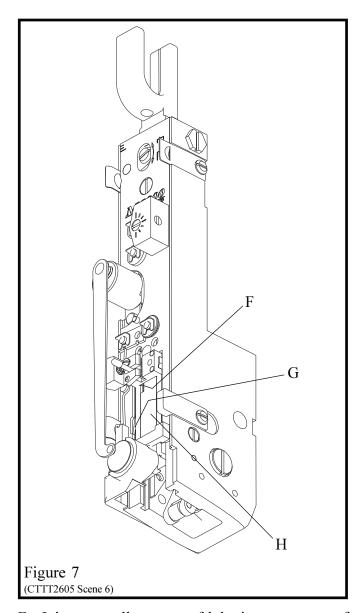




STITCHING HEAD LUBRICATION: (FIGURES 6 & 7)

Typically, the 1/2 inch crown stitcher will run for 1,000,000 cycles without additional lubrication. However, the following procedure used after each spool of wire will assure optimum life and performance. Use **ISP** lubricant #CA9640.

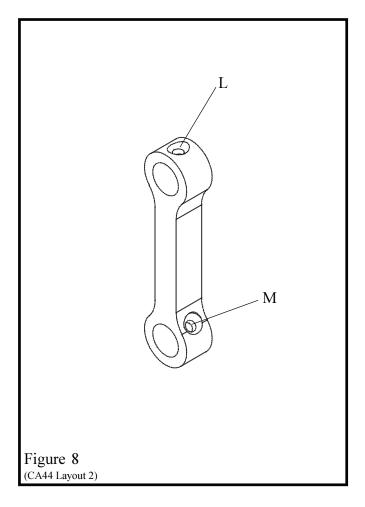
- A. Inject lube into hole, or remove and lube shafts.
- B. Wipe area clean and inject a small amount of lube into cam area.
- C. Remove rotator, wipe rotator clean and lube rotator body.
- D. Apply lube to rotator ramp.
- E. Wipe clean inside of rotator holder.

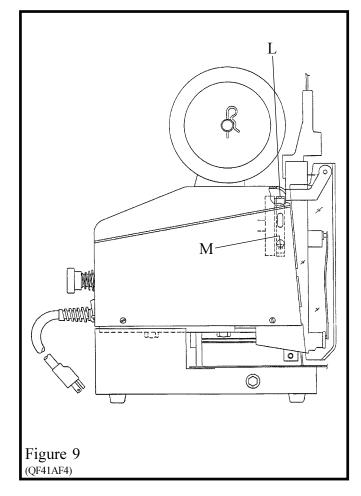


- F. Inject a small amount of lube into cam area of driver bar.
- G. Inject lube into cutter operating slide.
- H. Wipe driver clean, and apply a light coating of lube.

After prolonged use (or storage) accumulations of wire dust, dirt, or other contaminants can mix with the stitcher lubricant. This will reduce the lubricant's effectiveness. The following procedure is recommended every 1,000,000 cycles.

- 1. Disassemble the head and clean all parts.
- 2. Lightly lube all sliding surfaces using **ISP** lubricant #CA9640.
- 3. Double check lube points A through H.

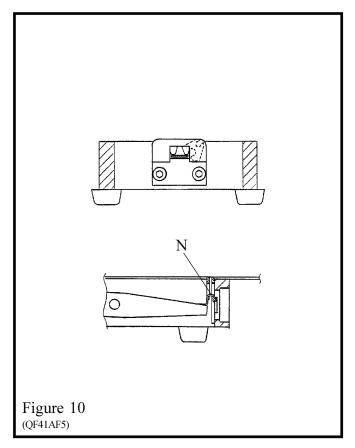


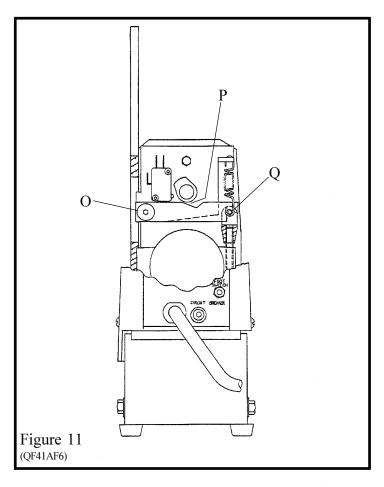


EXTERNAL LUBRICATION: (FIGURES 8, 9, 10)

Lubricate the following points before each spool of wire using SAE 20 oil.

- L. One drop in top hole of head operating link. Access through slot at top of cover behind stitcher head.
- M. One drop in lower/side hole of head operating link. Access through round hole (while viewing through slot immediately above round hole) in side of cover.
- N. One drop on clincher slide.



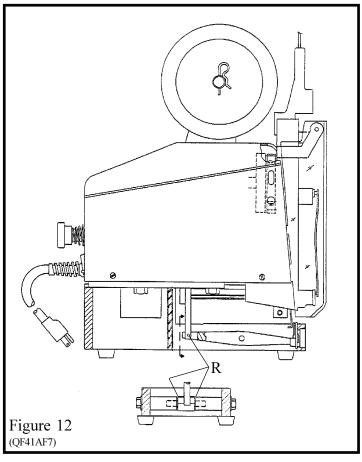


INTERNAL LUBRICATION (FIGURES 11, 12)

Frequency of Lubrication: Every 500,000 stitches or once a year, which ever comes first.

Unplug power cord, remove grey plastic cover and apply oil as follows:

- O. Two drops to pivot point of clincher operating lever.
- P. One drop between cam and clincher operating lever.
- Q. One drop on roll pin.
- R. One drop on each clincher rocker lever roll



Section 4 OPERATION

General:

After having properly installed and set up the machine, it is now ready for stitching. It is recommended that each operator be instructed as to correct operating procedure and normal adjustments necessary for varying work conditions.

WARNING

Prevent accidents by following these rules:

- 1. Do not put your hands near area to be stitched when machine is operating.
- 2. Turn the power off when the stitcher is not in use.

Table Stitching Using the Work Trip:

Switch off power. Swing up front guard assembly. Turn the trip lever knob counter clockwise and position the work trip to achieve the desired stitch location. Swing down the front guard assembly. Switch power on. Insert work, from the front, into the stitching area until the work depresses the work trip, causing stitch.

Table Stitching Using the Foot Switch (Optional Equipment):

Switch off power. Swing up front guard assembly. Turn the trip lever knob counter clockwise and position the work trip to serve as a back gauge or move work trip completely back out of the way of the work. Plug the foot switch cord into foot switch outlet on rear control panel (work trip is then automatically bypassed). Switch power on. Load work, from the front, into the stitching area. Once the work is positioned as desired step on foot switch to cause a stitch.

Hand Jog:

A hand jog is located at the rear of the machine. To manually cycle the Model 306: switch off power; push in and rotate knob counter clockwise to go through a normal stitch cycle, or clockwise for a reverse cycle.

Master Out and SecondaryUnit In:

These outlets are only for use with the "Multiple Stitch Accessories".

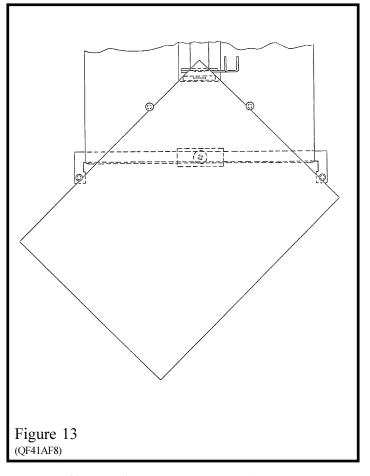
CAUTION

AVOID DAMAGE TO YOUR STITCHER BY FOLLOWING THESE RULES:

- 1. Never operate your stitcher with wire feeding unless you have work material between the clinchers and benderbar.
- 2. Do not drive one stitch on top of another.

Work Guides (Optional Equipment):

- A. Side Guides: To adjust side guides pop-up the pins at the end of each guide, loosen the screw knob beneath the table, position guides as desired, and retighten the screw knob.
- B. Corner Stitch Guides-Table Use Only: Pop Up the pins located in the table and the pins located at the end of each side guide. Using your work as a set up tool, position and secure the side guides as indicated in figure 13. Switch off power, swing upfront guard assembly, and move the work trip all the way forward. Swing front guard assembly back down and switch on power. Push work into corner guided area of table until depression of work trip causes a stitch.



Changing Work Thickness:

Changing work thichness will probably require a change of the wire draw length used to make a stitch. This is done by raising or lowering the face plate. To change face plate position switch off power; swing front guard assembly up to the second detente position; loosen the faceplate screw (Located directly above "M2000" on the face plate), move the position lever up for more wire or down for less wire, retighten faceplate screw, and swing down front guard.

Section 5 MAINTENANCE, TROUBLE SHOOTING AND ADJUSTMENTS

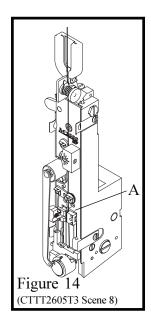
General

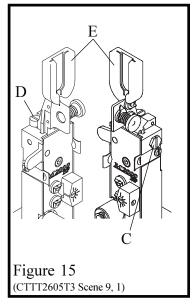
Every Model 306's M2000 Head Stitcher has a friction-type head which depends on smooth sliding friction and proper timing to function correctly. Preventative maintenance will go far to insure trouble-free operation. Avoid production down time by keeping your stitcher in top working condition at all times.

Recommended Spare Parts

Like any equipment that has moving parts, certain parts of your stitcher will be subjected to more wear than others and require replacement. The following listing includes all the parts required for minimum maintenance and good operation of your Model 306.

PART NAME	PART NO.	QTY.
Wire Cutters	CA9048	2
Grip	CA9015D	1
Grip Spring	CA168	1
Tension Roll Clip	CA9124	2
Rotator	CAA9038E	1
Clincher Points	CA9083	2





Caution

MAKE ALL ADJUSTMENTS WITH THE POWER OFF AND THE STITCHING HEAD IN NEUTRAL POSITION! (Fig. 14)

In neutral position, the wire grip assembly (Index A) is stopped at the top of the slot in the face plate.

Stitching Adjustments

Best stitching performance will be assured if all adjustments are made so that you get the following results:

- 1. Good Cut-Off
- 2. Uniform Wire Draw
- 3. Equal Leg Length
- 4. Proper Clincher Alignment
- 5. Sufficient Compression

To Equalize Both Legs of Stitch (Fig. 15)

- 1. Loosen the wire guide locking bolt (Index C).
- 2. Turn adjusting screw (Index D) clockwise to shorten left leg of stitch; counter clockwise to lenghten left leg.
- 3. Tap bracket (Index E) down before tightening bolt (Index C).



M2000 Head Trouble Shooting

FLAT CLINCH

HERE'S HOW A PERFECT STITCH LOOKS



LOOP CLINCH

(QF41AF21)

kinds of mechanical trouble may have caused the malformation. The possible causes and remedies are given for each kind of mechanical trouble and are listed under each section. The remedies are indexed to the Adjustments Section which gives more detailed information about your stitcher, the mechanical trouble that may occur and suggested remedies. Unless you recognize the correct cause, check each possible cause given.

Should stitches appear in any form other than illustrated, one or more

TROUBLE	POSSIBLE CAUSE	REMEDY
A. Defective Stitches		
1. One or both legs buckled. NOTE: Since buckled legs are often concealed in the work and may appear the same as a short leg, always remove two or more stitches to see which is occurring. 2. Wrinkled crown.	 Clincher is worn or improperly aligned. Insufficient compression. Unequal leg length Burred stitch leg. Incorrect wire size. Worn bender bar. 	"C,F" Page 20,22 "A,B" Page 20 See "To Equalize Both Legs of Stitch" Page 13 "L" Page 25 "N" Page 26 "G" Page 22
3. Length of one leg varies	 Leg Lengths not adjusted properly Gripper is worn or dirty Grip release slide is worn Broken wire guide spring (index 65H) Excessive tension on wire straightner Worn Driver bar Worn Tension Pawl or weak tension pawl spring Weak or broken grip spring 	See "To Equalize Both Legs of Stitch" Page 13 "K" Page 24 "K" Page 24 Page 40 "P" Page 27 "I" Page 23 "R" Page 28 "K" Page 24

M2000 Head Trouble Shooting

TROUBLE	POSSIBLE CAUSE	REMEDY
4. Corner of crown distorted or fractured	 Excessive compression Broken driver bar end Worn bender bar Clincher improperly aligned or worn Incorrect wire size 	"A,B" Page 20 "I" Page 23 "G" Page 22 "C,F" Page 20,22 "N" Page 26
5. Stitch crown not flat and legs not bent into work	1. Insufficient compression	"A,B" Page 20
6. One or both legs turn out	1. Clincher improperly aligned	"F" Page 22
	2. Dull cutters	"L" Page 25
7. Flat piece of wire	 Rotator is dirty Improperly adjusted lower wire straightener Broken or worn rotator Improperly aligned rotator 	"O" Page 26,27 "P" Page 27 "O" Page 26,27 "O" page 26,27
8. Stitches come out in pieces	 Improperly aligned rotator Weak rotator operating spring Improperly adjusted upper wire straightener Incorrect wire size Wire jammed in bender bar grooves 	"O" Page 26,27 "O" Page 26,27 "P" Page 27 "N" Page 26 "G,I" Page 22,23
9. Both stitcher legs are either too long or too short	Face plate not adjusted properly	See "Changing Work Thichness" Page 12

M2000 Head Trouble Shooting

TROUBLE	POSSIBLE CAUSE	REMEDY
B. WIRE BUCKLES		
1. Wire buckles above the grip and below the tension pawl Figure 16	 Worn driver bar Worn bender bar latch Worn or broken bender bar friction plug and/or spring 	"I" Page 23 "J" Page 24 "H" Page 22
CTTT2605 Scene 10VA) 2. Wire Buckles above the wire cutters and below the grip Figure 17 (CTTT2605 Scene10VB8) C. GRIP	 Improperly aligned rotator Worn or broken wire cutters Burrs on rotator Improperly adjusted lower wire straightner Worn or broken wire cutter operating slide Wire cutter slot in face plate worn 	"O" Page 26,27 "L" Page 25 "O" Page 26,27 "P" Page 27 "M" Page 26 "L" Page 25
Grip does not close with position lever up.	Face plate is too high	Loosen face plate screw, turn set screw (item 36H, page 40) downward slightly in face plate clip (item 35H, page 40), retighten face plate screw.

Drive Trouble Shooting

TROUBLE	POSSIBLE CAUSE	REMEDY
On/Off switch does not light	Power cord unplugged	Plug in power cord
when switched on	Circuit breaker for input power	Press in extended circuit breaker NOTE: If recently blown, wait 10 min. before pressing in
	Faulty electrical connection	Use electrical schematic page 42, 43 to check wiring
Stitcher drive does not operate with work trip	Safety switch is not being depressed by front guard	Adjust front guard and/or safety switch bracket
	Foot switch is plugged in	Unplug foot switch
	Circuit breaker is blown	Press in the extended citcuit breaker. NOTE: If recently blown, wait 10 min. before pressing in
	Faulty foot switch jack	Repair or replace foot switch jack See foot switch schematic pages 42 and 43 for reference
	Contaminants on electrical contacts of trip mechanism	Turn trip lever knob counter clockwise and move trip mechanism from front to back a few times
	Faulty electrical contact of trip machanism. (Pressing the trip should break the circuit between the round trip locating rod, Item 25 page 35, and the hexagonal paper trip rod, Item 24 page 35)	Remove trip machanism, clean, repair, or replace contaminated or damaged items
	Faulty electrical connections	Use electrical schematic page 42, 43 to check wiring
	Faulty safety switch	Replace switch
	Faulty motor (test using 90 vdc)	Replace motor
	Faulty circuit board	Replace circuit board

Drive Trouble Shooting

TROUBLE	POSSIBLE CAUSE	REMEDY
Stitcher drive does not operate when foot switch is depressed	Safety Switch is not being depressed by front guard	Adjust front guard and/or safety switch bracket
	Circuit breaker for drive is blown	Press in the extended circuit breaker. NOTE: If recently blown, wait 10 min. before pressing in.
	Faulty foot switch (pressing foot switch should break contacts of switch inside Footswitch assembly)	Replace footswitch
	Faulty electrical connections	Use electrical schematic page 42, 43 to check wiring
	Faulty safety switch	Replace switch
	Faulty motor (test using 90 vdc)	Replace motor
	Faulty circuit board	Replace circuit board
Stitcher keeps cycling, without depressing footswitch or work	Faulty cam switch	replace switch
trip, until power is shut off	Faulty electrical connections	Use electrical schematic page 42, 43 to check wiring

NOTES

CAUTION

Turn Power OFF Before making Any Adjustments

A. Insufficient or Excessive Compression

Proper compression of work between the clincher and the bender bars is necessary so that the stitch penetrates the work material and clinches correctly. To test for compression, drive several stitches into sample work material. With proper compression, stitches hold the work together firmly and the clinched legs do not overlap. In the following instances, either one or all of the conditions may exist: with insufficient compression, stitch legs overlap, crown of the stitch is fractured, and the work mutilated. To change compression adjust the table/clincher bracket.

B. Clincher Adjustment (Figure 18)

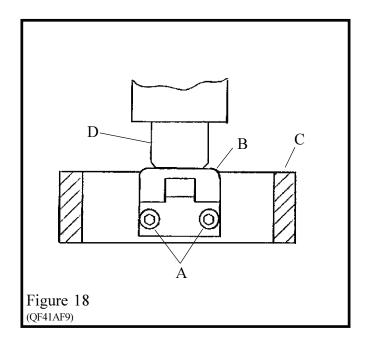
- 1. Remove wire from rotator, and turn the jog knob clockwise until the bender bar is fully down.
- 2. Loosen the two screws (Index A) securing the clincher (Index B) to the stand (Index C).
- 3. Move the clincher up until the top of the clincher assembly squarely touches the bottom of the **fully lowered bender bar**. (Index D)
- 4. Retighten the two screws.

C. Clincher (Figure 19)

The purpose of the clincher is to turn the legs of the stitch back after they have penetrated the work material. There are two types of clinchers used:

- 1. Solid (stationary) Type-makes a loop clinch. (Models 306 & 306-A)
- 2. Activated (moving) Type-makes a flat clinch. (Models 306-B & 306-C)

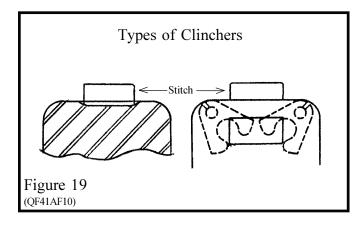
With the Solid (stationary) Type clincher, the legs of the stitch must strike the clincher at the same time and with equal spacing from the outside edges of



the groove. The groove in the clincher should be smooth. Any interference (particularly a worn or pitted groove), which change the original radii, will cause the stitch legs to buckle and/or the corners of the crown to fracture.

With the Activated (moving) Type clincher, the stitch legs must enter the clincher at the same time and with equal spacing from each side. When the stitch legs have penetrated the work material, the moving clinchers are raised to bend the legs towards each other and up flat against the work. The clincher points must bend both legs of the stitch against the work with the same force. Clincher points must always move freely and not bind. Dirt, wire chips, etc. will cause the points to bind.

The clincher points are in a retracted position in the clincher box until the stitch legs penetrate the work material. After the legs penetrate, the clincher points move upward to give a neat, flat clinch against the bottom surface of the work material. If the clincher points remain in the up position, the legs of the next stitch cannot penetrate the work material, causing the stitch legs to buckle and/or the corners of the crown to fracture. Examine the clincher points, clincher slide for possible binding. Clean and oil. If clincher points rise to high, they fracture the stitch legs and/or mar the work. If the points do not rise high enough, the legs will not clinch flat. Adjust the height of the clincher points.



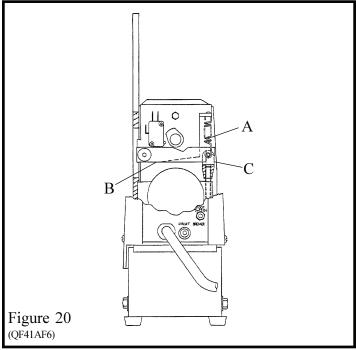
D. To Adjust Clincher Points Height (Figure 20)

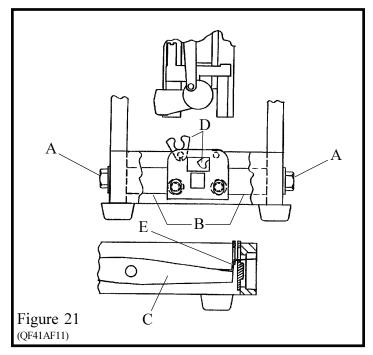
- 1. Turn off power and unplug power cord.
- 2. Remove wire coil, washer, compression spring and stud.
- 3. Swing up front guard assembly to 1st detent position.
- 4. Unscrew the four screws securing cover and remove cover.
- 5. Unhook and remove the extension spring (Index A).
- 6. Lift clincher operating lever (Index B) away from clevis (Index C) and turn clevis clockwise to lower the clinchers, counterclockwise to raise the clinchers. Note: clinchers will raise or lower .025" per 360 degree turn of clevis.
- 7. Reassemble unit.

If the clinchers points are broken, the stitch legs will not clinch and/or be deformed. Reverse or replace the clincher points.

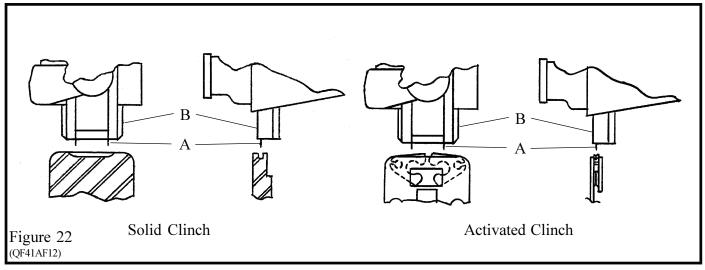
E. To Reverse or Replace Clincher Points (Figure 21)

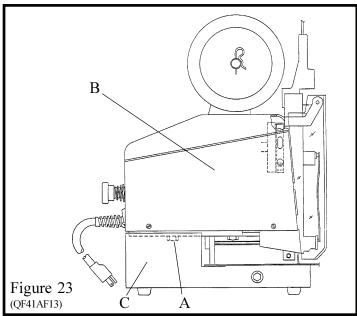
- 1. Remove the two screws (Index A) securing the clincher lever mounting rods (Index B).
- 2. Move clincher lever assembly (Index C) away from clincher points (Index D).
- 3. Raise the clincher points, and reverse or replace.
- 4. When reassembling, push the clincher points down so that the clincher lever spring (Index E) will engage the center of the clincher points. Note: Clincher lever assembly pivot freely up and down while actuating clinchers after assembly.

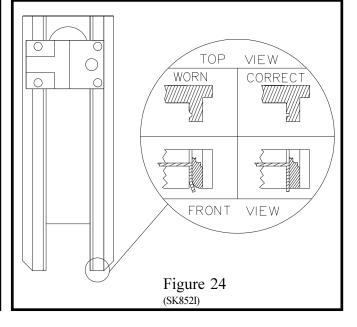




The proper alignment of the clincher under the formers is one of the most critical adjustments on the stitcher. Therefore, extreme care should be taken to align the clincher so that both legs of the stitch strike the clincher at the same time with equal spacing from the outside edges of the grooves (See Figure 19). Also, the clincher must be aligned with the bender bar grooves of the head from front to rear so that the legs enter the clincher at the widest section of the clincher grooves.







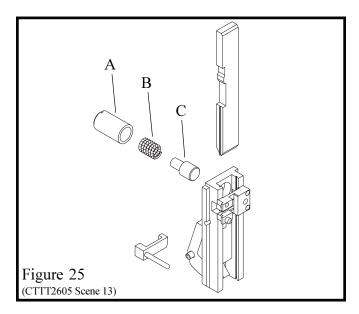
F. Head/Clincher Alignment (Figures 22, 23)

To test alignment: Drive several stitches into a section of material identical to that which is to be stitched. The clinched legs should be identical and aligned with each other. If the legs are not in alignment, make the following adjustments:

- 1. With power off, press in and turn the jog knob clockwise until the legs of the stitch (Index A, Fig. 22) appear just below the bender bar (Index B).
- 2. Loosen the four bolts (Index A, Fig. 23) securing the base (Index B) to the stand (Index C).
- 3. Move the base until the legs of the stitch line up with the clincher points (Index C, Fig. 22).
- 4. Tighten the four base mounting bolts.

G. Bender Bar (Figure 24)

The bender bar bends the wire over the rotator and forms it into an unclinched stitch. The legs of the stitch are guided towards the work material by the bender bar grooves. The legs of the unclinched stitch should be perpendicular to the crown. When the bender bar grooves become worn, the legs tend to flare out (Figure 24) as they emerge from the grooves. This causes the legs to strike the clincher improperly. As a result, one or both legs will crumple and a broken driver bar or a broken bender bar can result. If the lower end of the bender bar groove becomes chipped, it will not support the wire and may cause the stitch to break at the crown. Replace the bender bar assembly (See Section H or Fig. 25). Other bender bar functions are related to wire cutting (Section L), and driving (Section I).



H. Bender Bar Friction Plug And/Or Spring (Fig. 25)

Two parts furnish pressure to coordinate movement of driver bar and bender bar. If pressure is insufficient, proper timing is not maintained for the action of the grip. As a result, wire feeds backwards. Replace the plug and/or spring.

To replace bender bar friction plug and/or bender bar friction spring:

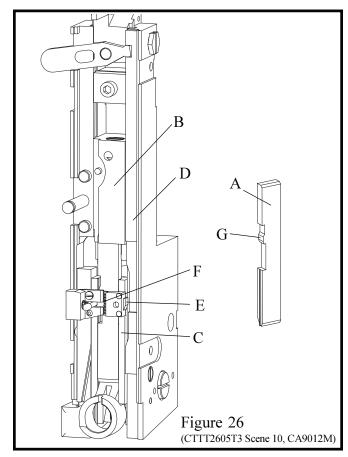
- 1. Remove bender bar assembly by following steps 1 through 23 of "Removing and Dismantling M2000 Head", Pages 29 and 30.
- 2. Remove bender bar friction bushing (Index A). Bender bar friction plug (Index C) and spring (Index B) will be released forward from bender bar assembly.
- 3. Replace plug and/or spring and reassemble.

I. Driver Bar (Figure 26)

The driver bar (Index A) has several functions:

- 1. It imparts the downward thrust from the driving slide assembly (Index B) to the bender bar assembly (Index C).
- 2. It returns these parts to the neutral position on the upstroke.
- 3. In conjunction with the grip release slide (Index D), it controls the movement of the bender bar latch (Index E) that opens and closes the grip (Index F).

If the notches (Index G) at the top left side of the driver bar become worn, the grip will not remain open on the upstroke. As a result the wire feeds

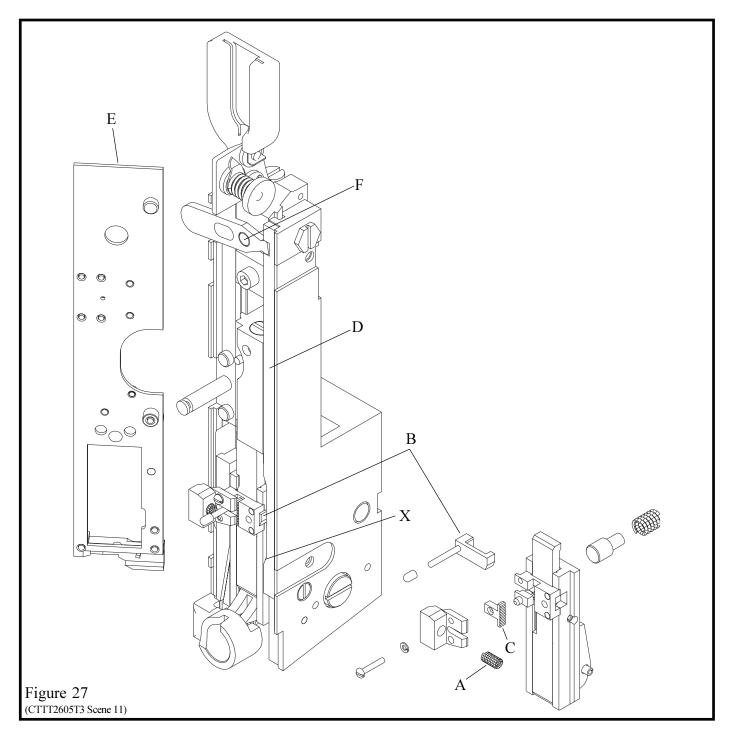


backwards and buckles above the grip and below the tension pawl. Worn notches can also cause uneven wire draw. Replace the driver bar.

The notches shown on left side of driver bar play an important part in function of bender bar assembly therefore, corners should be free of dirt and notches not marred.

The driver bar rides within the bender bar grooves as part of the bender bar assembly. As this assembly reaches the lower contact point of the cam in the grip release slide, the bender bar latch is forced inward, releasing the wire grip and permitting the bender bar assembly to continue downward with the end of the driver bar riding on top of the formed stitch. When the bender bar is stopped against the work material, the driver bar continues downward to exert pressure on the crown of the stitch, driving it through the work material.

If the end of the driver bar is chipped it allows the legs of the stitch to back up into the broken area. This causes the corner of the crown to fracture or a "spike" section to protrude above the crown. A chipped driver bar is usually the result of driving a stitch on top of another stitch. A worn driver bar often causes deformed stitches or fracturing at the corners of the crown.

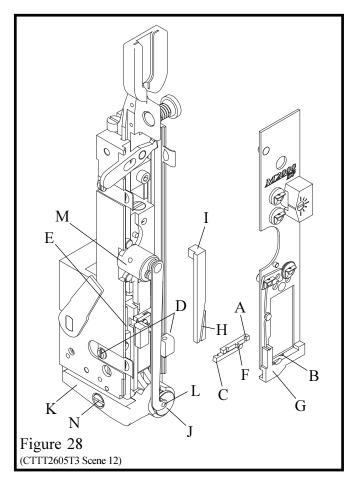


J. Bender Bar Latch

The bender bar latch opens and closes and is actuated by the grip release slide and driver bar. If the contact points of the latch become worn, timing of the grip is erratic and uneven wire feed results. A dirty latch will decrease pressure of the grip on the wire. This causes wire slippage. Clean or replace the latch.

K. Grip, Grip Release Slide and Face Plate: (Figure 27)

The grip spring (Index A) exerts pressure on the benderbar latch (Index B) to close the grip (Index C) at the start of the down stroke. The grip release slide (Index D) actuates the bender bar latch at point X to open the grip after the correct amount of wire has been fed to make a stitch. The serrated teeth on the grip must be sharp or slippage will occur, producing uneven wire draw.



When the face plate (Index E) is adjusted (See "Changing Work Thickness", page 12) a pivotal action (at point F) changes the position of the grip slide. When the face plate is raised, it moves the grip release slide down. The gripper can then remain closed longer, on the downstroke, feeding more wire for the stitch. When the face plate is lowered, it moves the grip release slide up. The gripper will open sooner on the downstroke, feeding less wire for the stitch.

If the grip is weak, uneven wire draw will result. Replace the grip spring. If the contact points on the grip release slide and/or the bender bar latch are worn, wire adjustment will not remain accurate.

The face plate stops the bender bar assembly at the top of its stroke and allows the bender bar latch to close the grip. When the face plate is too high, too much of the upstroke has been used before the bender bar hits the face plate. In the remaining portion of the upstroke, the driver bar cannot continue upward enough to release the bender bar latch so that it can close the grip.

L. Wire Cutters: (Figure 28)

The purpose of the wire cutters is to shear the wire cleanly. There are two wire cutters, upper and lower. The upper wire cutter (Index A) recieves wire from the grip through the wire cutter lead-inhole (Index B). It also serves as the cut-off die. The lower wire cutter (Index C) is the cutting knife. If the cutter breaks, it will cover the lead-in hole. This prevents the wire from feeding into the rotator. If the cutting surfaces become worn, burrs will result on the end of the wire. This prevents the wire from feeding into the rotator. As a result, the wire buckles between the cutters and the wire grip. Reverse, interchange or replace the cutters.

To Reverse, Interchange or Replace the Wire Cutters:

- 1. Loosen both face plate retaining clips (Index D) at bottom of bonnet.
- 2. Spring the face plate out 1/8" while holding the cutter clide in position (Index E).
- 3. Slide the cutters out to the left.
- 4. Reverse, interchange or replace the cutters.

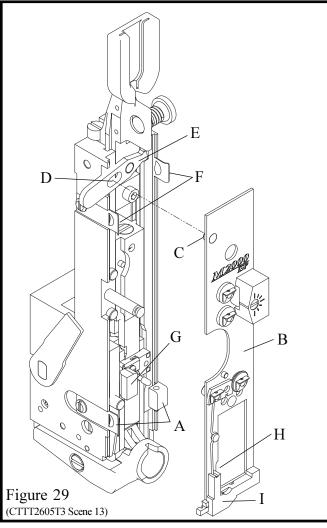
NOTE

While installing the cutters, make sure that (1): lip on upper cutter (Index F) fits into the recess behind the face plate (Index G) and (2):that the lip on the bottom cutter fits into the slot (Index H) in the wire cutter operating slide (Index I).

The wire cutter operating slide actuates the lower wire cutter. If the slide is worn or broken, the wire cutter is not actuated. Replace the operating slide. The slot in the lower part of the face plate contains the wire cutter and maintains a close fit for wire shearing. If this slot becomes oversized, the wire will not be cut off. Replace face plate. To Replace Face Plate (See Steps 1 through 10, Section M)

NOTE: (Figure 29)

The lug (Index C) in the faceplate must match the slot (Index D) in the grip release adjusting lever (Index E) or damage to the head may result.



M. Wire Cutter Operating Slide

The wire cutter operating slide actuates the lower wire cutter which acts as the cutting knife. If the slide is worn or broken, the wire cutter is not actuated. Replace the operating slide.

To Replace The Wire Cutter Operating Slide:

- 1. Cut the wire at the bracket and pull the loose end out.
- 2. Remove the stitcher head assembly.
- 3. Lift end of spring (Index L, Figure 28) out of rotator.
- 4. Swing the spring up to disengage it and lift out.
- 5. Slip the rotator operating cam (Index M, Figure 28) forward and off the stud.
- 6. Pull the rotator forward.
- 7. Loosen the two face plate retaining clips (Index A, Figure 29) and rotate them downward.
- 8. Push two face plate retaining clips (Index F) outward while lifting face plate up, or remove retaining clips to release face plate.

- 9. Position grip spring housing (Index G) between tension pawl spring retainer (Index H) and cutter housing (Index I).
- 10. Remove face plate (Index B) by sliding face plate to the left and lifting up.
- 11. Remove the cutter operating slide (Index I, Figure 28).
- 12. Insert a new cutter operating slide.
- 13. Reassemble

N. Proper Wire

The Model 306 is designed to use 25 gauge (.020" diameter) 120,000 to 159,000 psi tensile strength bookbinders wire.

If the wire used is larger than the bender bar grooves were designed for, it will fracture at the stitch corners and come out in pieces. Also, serious damage to the stitcher may result. If the wire used is smaller than the bender bar grooves were designed for, the legs of the stitch do not fit snugly in the grooves and may tend to buckle when they strike the work material because they are not fully supported.

O. Rotator (Figure 28)

The rotator (Index J) (1) recieves the wire from the cut-off die, (2) holds the wire while it is being cut, then (3) turns it to a horizontal position, moves it under the bender bar grooves and (4) supports the wire while it is being formed into a "U-shaped" stitch

The wire lead-in-funnel of the rotator must be aligned with the wire as it comes through the wire cutters. If the rotator is improperly aligned, the wire hits the rotator and buckles. Adjust upper two wire straightners until wire slips past rotator. Burrs on the rotator prevent the wire from entering the rotator. This causes wire buckling. Remove the rotator and polish the lead-in radius.

The magnets in the rotator hold the wire firmly in the rotator. If a magnet is broken or chipped the wire may fall out. To determine if the rotator has the proper holding strength, remove the rotator and insert a cut length of wire in the rotator. Hold rotator between thumb and forefinger. Attempt to jar wire loose by hitting heel on hand on top of table or against other hand. With proper magnetic holding force wire will remain in rotator. With

insufficient holding force wire will fall from rotator. Replace the rotator.

The rotator holder and rotator operating spring are responsible for alignment of the wire beneath the bender bar grooves. The position of the rotator holder determines how far the rotator is pushed forward under the bender bar by the rotator operating spring (Index L). A weak spring will not push the rotator in far enough and with this improper alignment the bender bar will knock the wire from the rotator or will shear the wire into pieces. To secure proper alignment, check the position of the rotator operating spring. Make any necessary adjustment of the rotator holder or replace the rotator operating spring if weak.

The wire is fed into the rotator and held for forming. If the rotator is dirty, the wire is not (CTTT2605T3 Scene 3, 4)

gripped securely enough and drops out. Remove and clean the rotator. If the edges over which the wire is formed are sharp, the corners of the stitch crown will fracture. Remove the rotator and polish the edges with a fine emery cloth.

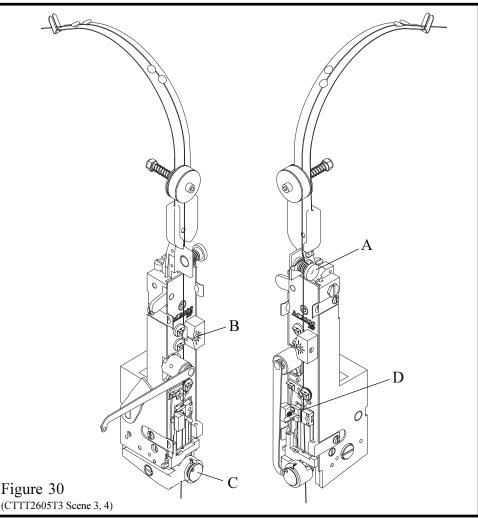
To remove, Adjust or Replace the Rotator Holder:

- 1. Swing the rotator operating spring to the left.
- 2. Remove the rotator.
- 3. Loosen the rotator holder screw (Index N).
- 4. Adjust the rotator holder screw.
- 5. Re-assemble.

P. Wire Straighteners: (Figure 30)

All coils of stitching wire have a certain amount of bundle curve. The purpose of a wire straightener is to remove this curve. There is both an upper wire straightener (Index A) and a lower wire straightener (Index B) on all M2000 Model Stitchers. See "Threading Wire and Adjusting Wire Straighteners" page 6.

The upper wire straightener should feed wire parallel

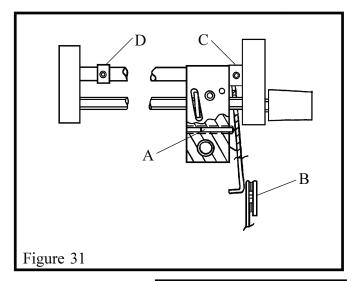


to the faceplate. This insures that the wire will properly enter the rotator and will be aligned with the grooves in the bender bar. If the wire is not parallel to the face plate the wire is sheared in the rotator as the bender bar descends. Adjust the upper wire straightener.

The lower wire straightener directs the wire straight down so that it enters the rotator (Index C). If the wire is not straight enough it hits the rotator and buckles. Adjust the lower wire straightener so that the wire points straight down as in figure 30. Improper straightening of the wire can also cause the stitch legs to buckle or turn out because they strike the clincher improperly. Excessive tension on the wire straightener prevents the grip (Index D) from feeding the wire smoothly. This causes variation in leg length.

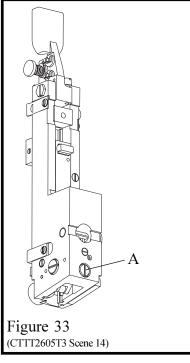
NOTE:

Check the wire straighteners when changing the coils to insure the accurate feeding of wire.



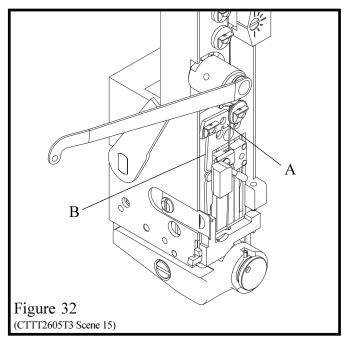
Q. Supporter

The supporter furnishes the necessary support to the inside surface of the stitch so that it does not buckle as it is being driven into the work material. A lack of (or insufficient) support will often cause the stitch crown to wrinkle or the legs of the stitch to buckle. Tighten the supporter spring bushing (Index A, Figure 33) or replace the spring.



If the corners of the top surface of the supporter are too sharp, or nicked, the corners of the stitch crown will fracture. To inspect the supporter:

- Turn the jog knob clockwise until the bender bars touch the work material and the legs of the stitch are about to leave the bender bar grooves. At this point, the supporter should be touching the underside of the crown. DO NOT TURN THE MOTOR ON
- Continue turning the jog knob until the stitch is completely driven. Although the supporter is gradually retracted by the driver, it should remain under the crown of the stitch until the last instant before the crown touches the work material.



R. Tension Pawl: (Figure 32)

The tension pawl (Index A) and spring (Index B) apply pressure on the wire to prevent back feed. If the pawl becomes worn or the spring becomes weak, the wire feeds backwards. Reverse or replace the tension pawl and/or spring.

S. Work Trip: (Figure 31)

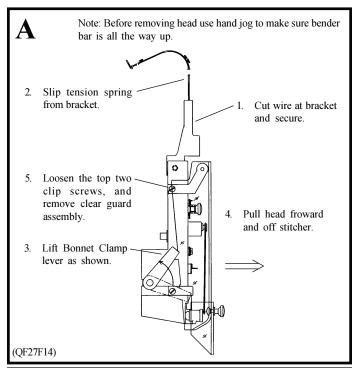
The amount of work trip lever overtravel can be slightly increased or decreased by turning the overtravel adjustment screw (Index A) located at the rear of the trip lever guide.

- 1. Turn screw counterclockwise to increase trip lever overtravel.
- 2. Turn screw clockwise to decrease trip lever overtravel., NOTE: A small amount of trip lever overtravel is always required or work trip will not function properly.

NOTE:

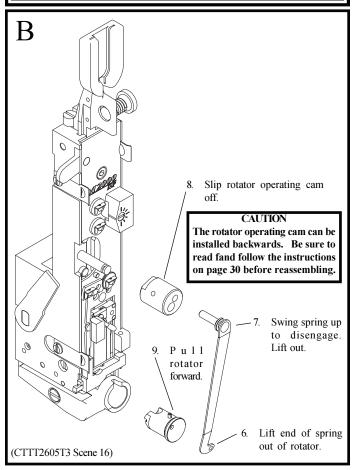
Trip lever must NOT touch the clincher assembly (Index B) when moved fully forward or the rear table when moved fully back, or unit will not work properly. If the trip lever touches clincher decrease overtravel or loosen set screw in front bumper (Index C) and reposition and secure further back. If the lever touches rear table loosen set screw in rear bumber (Index D) and reposition and secure further forward.

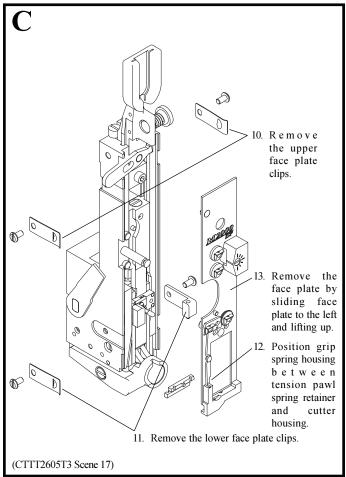
REMOVING AND DISMANTLING M2000 HEAD

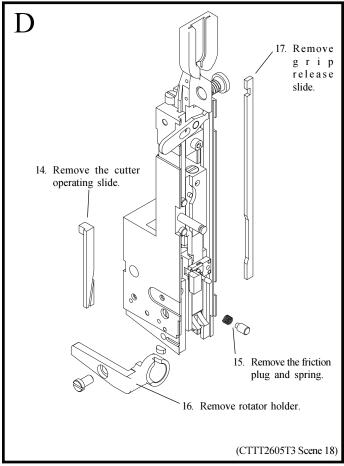


CAUTION

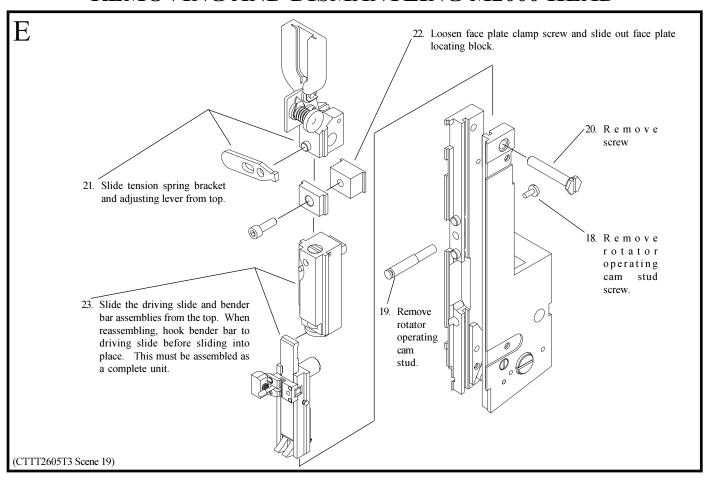
As a precautionary measure-When removing the head from any stitching machine make SURE that the power to the machine has been turned OFF or disconnected.

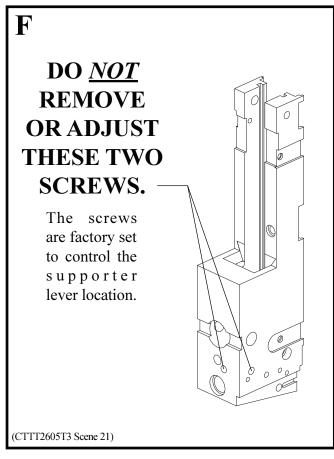


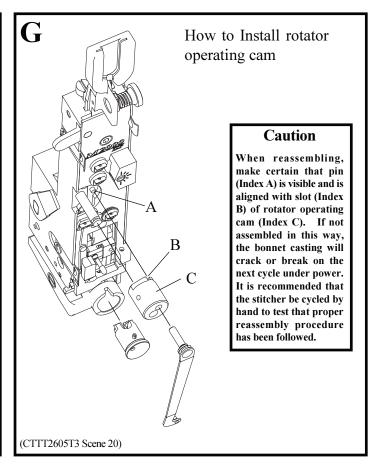




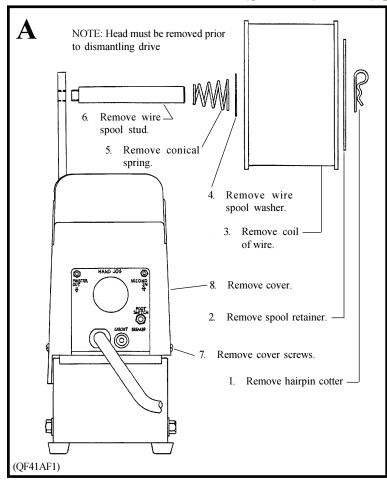
REMOVING AND DISMANTLING M2000 HEAD





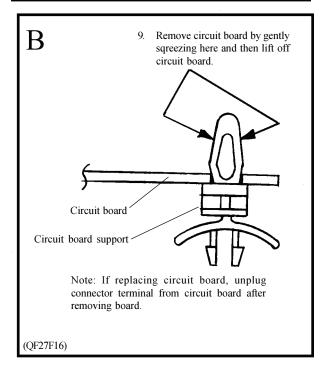


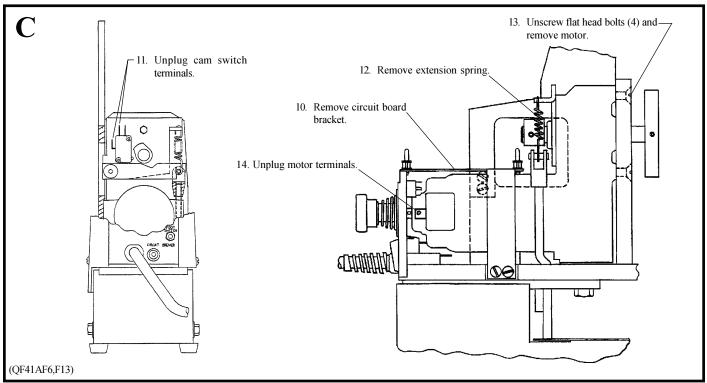
DISMANTLING DRIVE



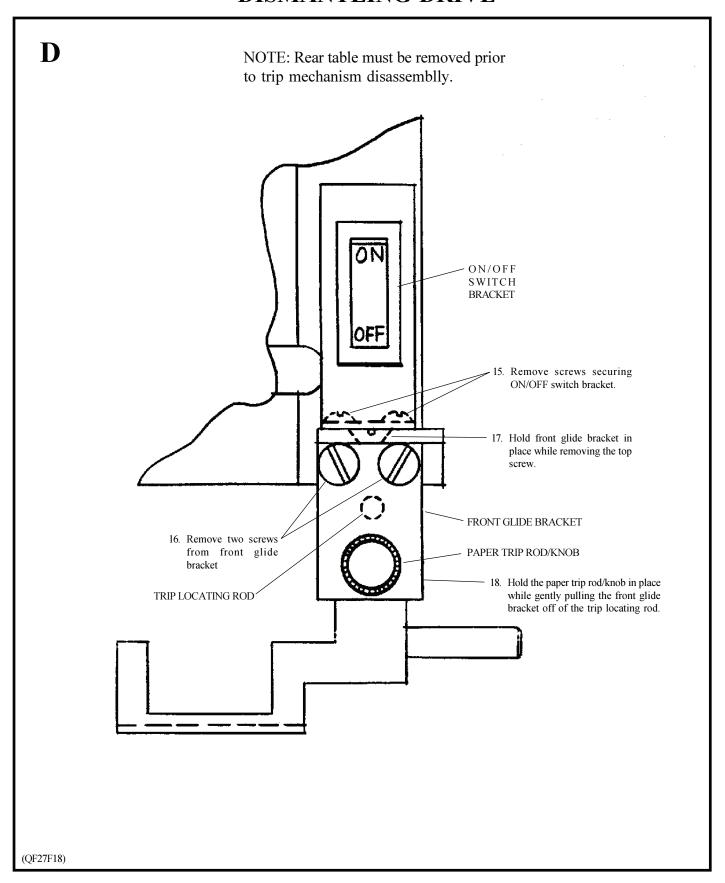
CAUTION

Disconnect power to the machine before any disassembly.

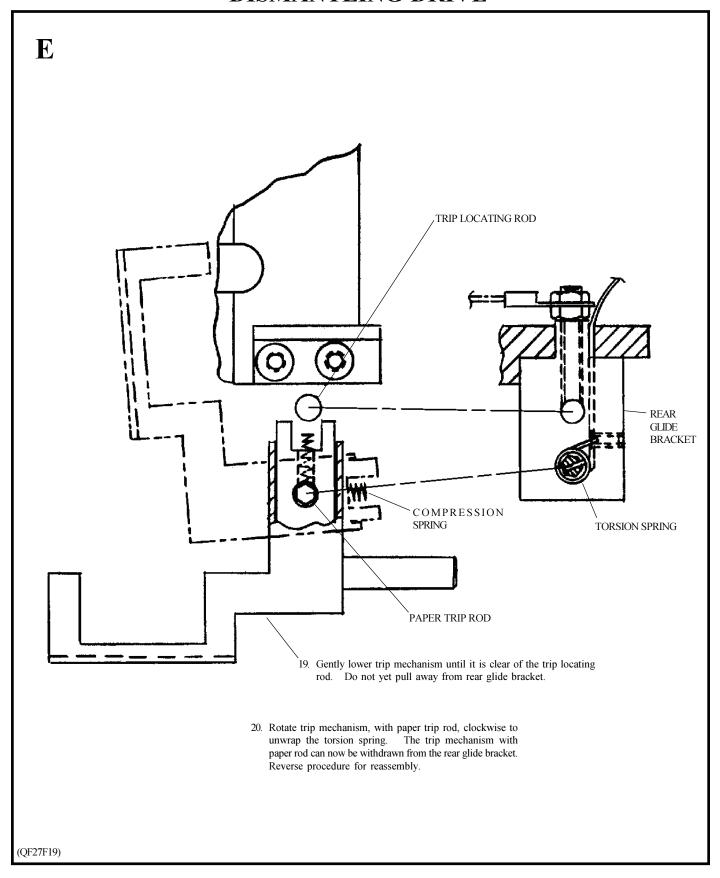




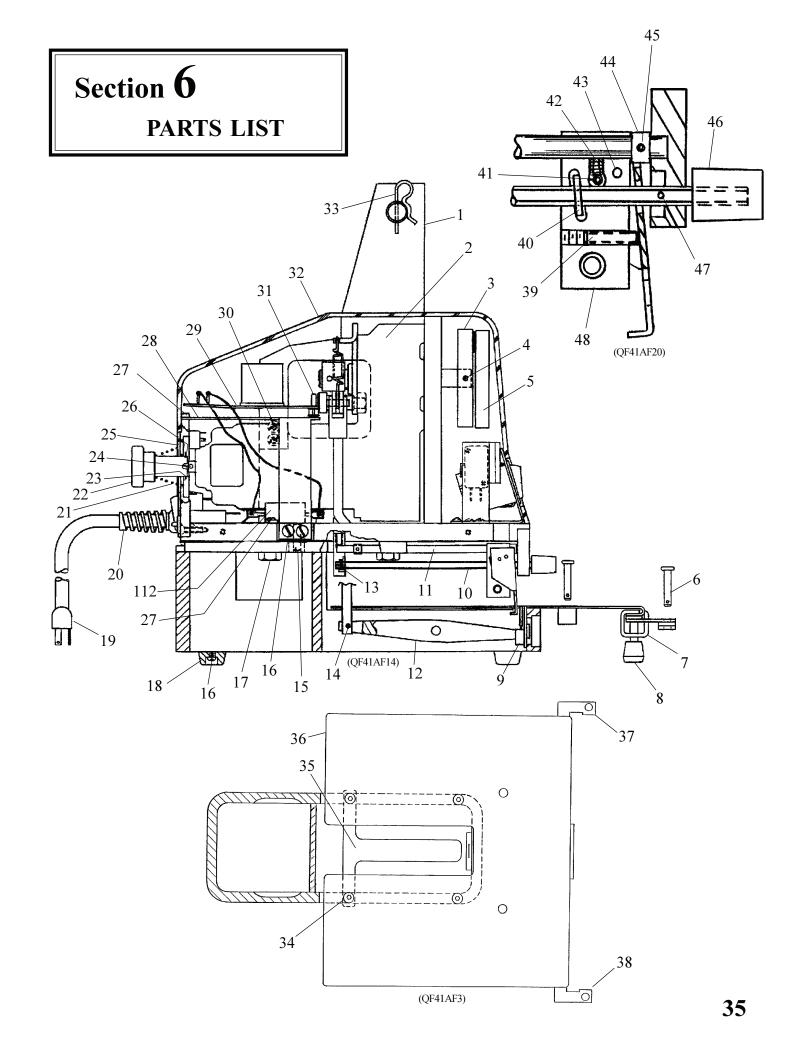
DISMANTLING DRIVE

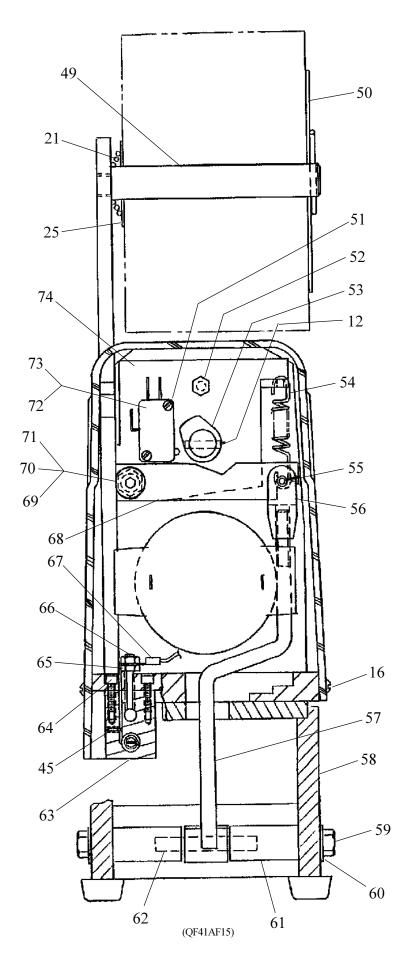


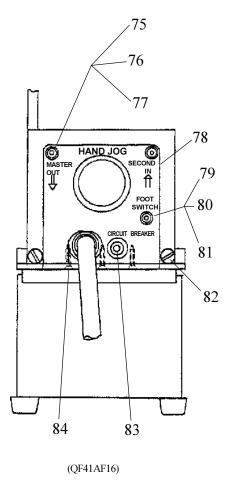
DISMANTLING DRIVE

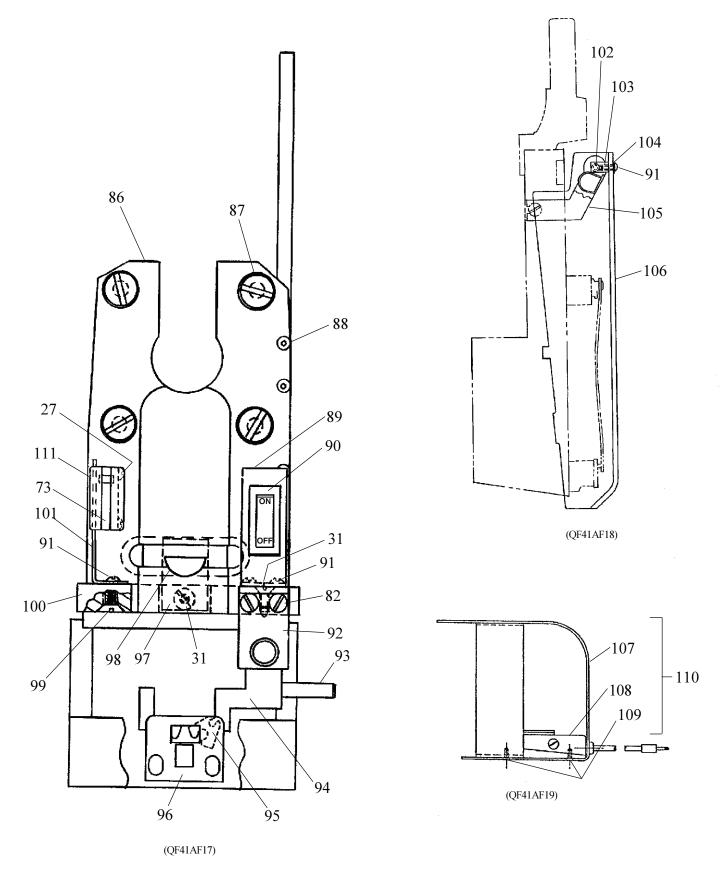


NOTES









MODEL 306

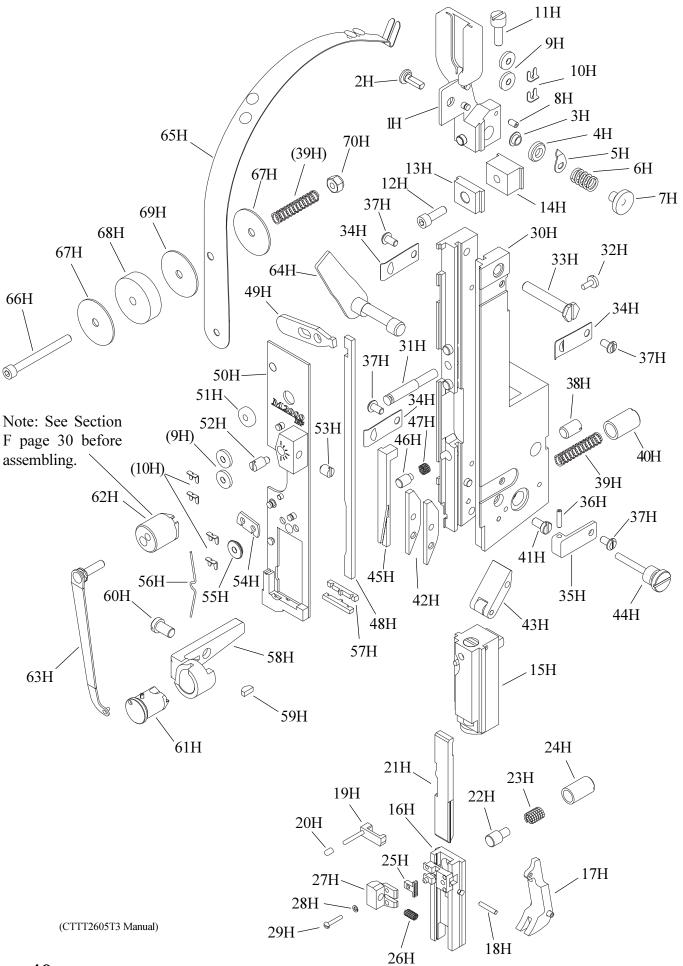
PARTS LIST

(See Pages 40 & 41 for M2000 HEAD Parts List.)

(56	e Page	es 40 & 41 for Mizuu	JU	HL
ITEM	PART NO.		QTY	REF.
				PAGE
1	CK-138	SUPPORT	1	35
2	CG-115-A	GEARMOTOR, 90 VDC (115 V.A.C.)	1	35
	CG-115 -B	GEARMOTOR 180 VDC (230 V.A.C.)	1	35
3	CKK-81-B CKK-81-A	CRANK ASSEMBLY, DRIVE SHAFT CRANK ASSEMBLY, DRIVE SHAFT	1 1	35 35
	CKK-81-A	(FOR MODELS 306 PRIOR TO SERIAL #		33
4	D-23940-F	PIN, ROLL, .125 x .88 Lg. (CRANK)	1	35
5	CA-44-E	HEAD OPERATING LINK	1	35
	CA-44	HEAD OPERATING LINK	1	35
		(FOR MODELS 306 PRIOR TO SERIAL #	700)	
* 6	CK-158	PIN, CLEVIS, COTTERLESS	4	35
* 7	CK-198	BRACKET, PAPER, GUIDE	1	35
* 8 9	CB-1253 CE-101	KNOB SCREW,.250-28 X .500 SOC. H.D.	2	35 35
10	CK-157	ROD, TRIP, PAPER	1	35
11	CK-136	ROD, LOCATING, TRIP	1	35,36
12	CKK-145-A	LEVER ASSY., CLINCHER	1	35
13	CK-180-C	SPRING, TORSION	2	35
14	D-38063-F	PIN, ROLL, .125X.625 (CAM & LEVER)	3	35,36
15	CB-284-A CB-401	PIN, DOWEL, 1875 X .75	1 1	35
16 17	D-25947-F	SCREW, 8-32 X .375 RD. HD. SCREW, .375-16X X .75 HEX. HD.	1	35 35
18	CP-3-A	BUMPER, POLYLASTOMER	1	35
19	CBB-283-J	CORD, POWER (115 V.A.C.)	1	35
	CBB-283-S	CORD, POWER (230 V.A.C.)	1	35
20	CG-162-B	BUSHING, STRAIN RELIEF	1	35
21	CK-180	SPRING, COMP., CONICAL	2	35,36
22	CKK-193-C	KNOB ASSEMBLY	2	35,36
23 24	CB-837-L CB-835-K2	RING, RETAINING	1 1	35 35
25	CA-114-A	PIN, ROLL, .093 X .437 LG. WASHER, FLAT, .625ID X 1.500 X .04	1	35
26	CK-230	WASHER, .562 ID, .75 OD X .030 FLAT	10	35,36
27	CG-14	SCREW, 4-40 X .250 RD. HD.	4	35
28	CK-182	BRACKET, CIRCUIT BOARD	1	35
29	CK-162	BOARD, CIRCUIT (115 V.A.C.)	4	35
2.0	CK-162-A	BOARD, CIRCUIT (230 V.A.C)	1	35
30	CB-206	SCREW, 8-32 X .375 FL. HD.	1 2	35
31 32	CK-183 CK-174	SUPPORT, PC BOARD COVER	1	35,36 35
33	CK-174	COTTER, HAIRPIN	1	35
34	CB-79-B	SCREW, 8-32 X .375 FL. HD. SOC.	1	35
35	CK-205	PLATE, TABLE, REAR	1	35,36
36	CKK-154-C	TABLE ASSY	1	35
* 37	CK-161	GUIDE, PAPER, R.H.	2	37
* 38	CK-160	GUIDE, PAPER, L.H.	1	35
39 40	CA-9077 CK-156	SCREW, 6-32 UNC 28 X .500 SET SCREW, 8-32 x .375 FL. HD.	1 4	35 35,37
41	CB-835-J2	SUPPORT, PC BOARD	4	35,37
42	CA-5108-B	SPRING, COMPRESSION	1	35
43	CK-175	PIN, TRIP LEVER	1	35
44	CB-434-A	BUMPER, TRIP	2	35
45	D-31028-F	SCREW, 6-32 X .25 SET	3	35,37
46	CK-193-B	KNOB, TRIP LEVER	1	35
47 48	CB-835-T CK-170	PIN, ROLL, .062 X .312 GLIDE, LEVER, TRIP	2	35,37 35
49	CA-45-B	STUD, SPOOL WIRE	1	36
50	CA-139	SPOOL RETAINER	1	36
51	CB-56-R	SCREW, 4-40 x .75 SOC. HD. CAP	2	36
52	CB-1070-A	SCREW, 10-32 x .375 HEX HD.	3	36
53	CK-149	CAM	1	36
54	CK-180-A	SPRING, EXTENSION	1	36
55 56	D-30610-F	PIN, ROLL, .187 x .625 LG.	1	36
56 57	CK-146 CK-147-B	CLEVIS ROD, CLINCHER	1 1	36 36
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aı	is List.)		
ITEM	PART NO.	DESCRIPTION	QTY	REF.
				PAGE
58	CKK-137-B	STAND	1	36
59	CK-31	SCREW, 250-20 x .500 HEX. HD.	2	36
60	CB-718	WASHER, .250	2 2	36
61 62	CK-207	ROD, MTG., LEVER, CLINCHER PIN, DOWEL	1	36 36
63	CB-331 CK-166	BRACKET, GLIDE, REAR	1	36
64	CB-56-S	SCREW, 5-40 X .50 SOC. HD. CAP	2	36
65	CB-720	NUT, 6-32 HEX	2	36
66	CK-178	SCREW, 6-32 x 1.00 SET	1	36
67	CBB-283-K	WIRE ASSEMBLY, TRIGGER/FT. JACK	1	36
68	CK-144	LEVER, CLINCHER OPERATING	1	36
69	CB-102-A	NUT, .312-18 UNC 2B HEX	1	36
70	CK-181	WASHER, .390 ID x .625 OD x .062	7	36
71	CB-1421-G	SHOULDER SCREW, .375 DIA. x .75 LG.	1	36
72	CG-17	SPACER, LIMIT SWITCH	3	36
73	CG-15	SWITCH, LIMIT	2	36,37
74	CK-143	BRACKET, SWITCH, CAM	1	36
75	CG-190-A	PHONE JACK, .097 DIA.	2	36
76	CK-164-A	WASHER, SWEDGED FIBRE, .097 DIA.	2	36
77	CK-164-C	WASHER, FLAT PHENOLIC, .097 DIA.	2	36
78	CK-167	PANEL, CONTROL, REAR (115 V.A.C.)	1	36
79	CK-167-B CG-190-B	PANEL, CONTROL, REAR (230 V.A.C.) PHONE JACK, .141 DIA.	1 1	36 36
80	CK-164	WASHER, SWEDGED FIBRE, .141 DIA.	1	36
81	CK-164-B	WASHER, FLAT PHENOLIC, .141 DIA.	1	36
82	CB-206-B	SCREW, 8-32 x .625 FL. HD.	4	36,37
83	CK-163	CIRCUIT BRKR ASSEMBLY (115 V.A.C.)		36
0.5	CK-163-A	CIRCUIT BRKR ASSEMBLY (230 V.A.C.)		36
84	CB-55-F	SCREW, 4-40 x .375 FL. HD.	3	36
86	CK-135	PLATE, MOTOR, MTG.	1	37
87	CB-587	SCREW, .250-20 x .75 FL. HD.	4	37
88	CB-56-P	SCREW, 5-40 x .75 SOC. HD	8	37
89	CK-172	BRACKET, SWITCH, ON-OFF	1	37
90	CB-285-P2	SWITCH, ON-OFF ILLUM. (115 V.A.C.)	1	37
	CB-285-S2	SWITCH, ON-OFF ILLUM. (230 V.A.C.)	1	37
91	CB-287-B	SCREW, 6-32 X .312 RD. HD.	8	37
92	CK-165	BRACKET, GLIDE, FRONT	1	37
93	CB-835-Y	PIN, .250 x 1.50 SST	1	37
94	CK-155	TRIP, LEVER, PAPER	1	37
95	CA-9083-A	CLINCHER POINT	2	37
96	CTT-9086-T	CLINCHER ASSEMBLY, ACTIVATED	1 1	37
97	CB-8187-B4 CK-179	CLINCHER, SOLID PLATE, RETAINER	1	37 37
98	CTT-9002	BONNET CLAMP ASSEMBLY	1	37
99	CB-619	SCREW, .250-20 x 1.00 FL. HD.	2	37
100	CK-134	BASE	1	37
101	CK-190	BRACKET, SW., SAFETY	1	37
102	CK-192	PIN, PIVOT, BLOCK	2	37
103	CK-191	BLOCK, PIVOT, GUARD	1	37
104	CF-1989	WASHER, #6 FLAT	2	37
105	CK-186	SPRING SUPPORT, GUARD	1	37
106	CK-187	GUARD, FRONT	1	37
* 107	CB-2095-D	GUARD, FOOTSWITCH	1	37
* 108	CB-502-M	FOOTSWITCH	1	37
* 109	CK-177	SCREW, NO. 4 THR'D. FORMING	2	37
* 110	CBB-502-M	FOOTSWITCH ASSEMBLY	1	37
111	CK-229	GUIDE, GUARD	1	37
112	CKK-234	RESISTOR ASSEMBLY	1	35
		DOLLAR COLUMN		
	* OPTIONAL	EQUIPMENT		

NOTES



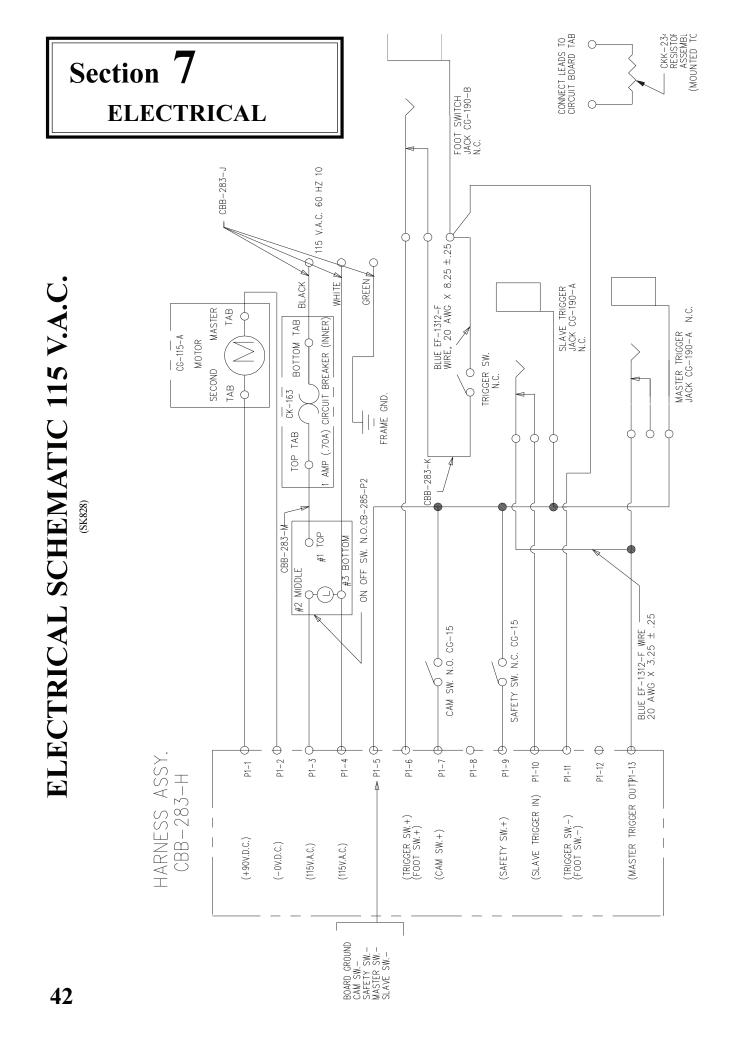
M2000 HEAD

PARTS LIST

The following parts listing (from index numbers 1H through 70H) is for the Model 306's M2000 Head, CTTT-2605-T3.

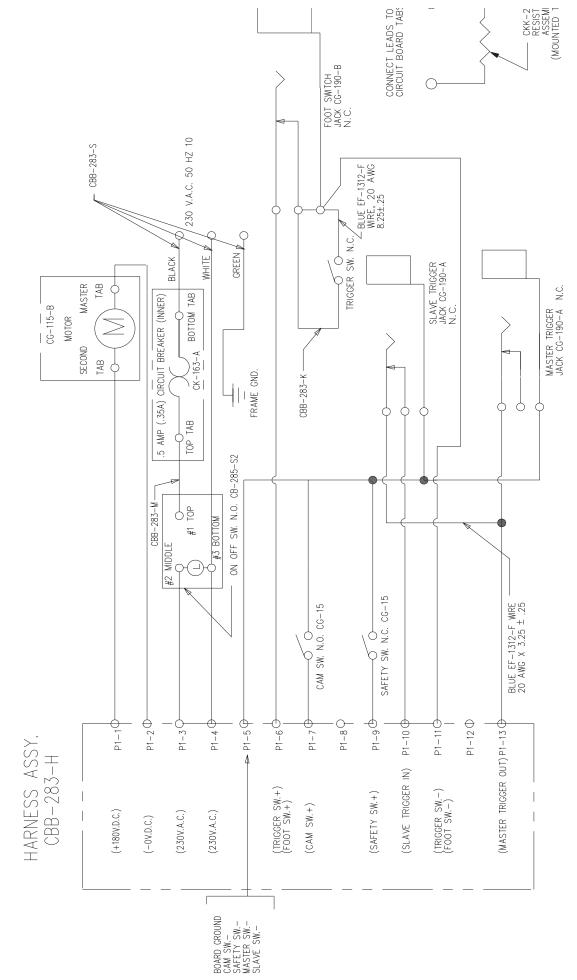
ITEM	PART NO.	DESCRIPTION	QTY
1 H	CAAA9074A2	WIRE GUIDE BRACKET ASSEMBLY	1
		ve Wire Guide Bracket Assembly includes the	
	following items	through item 11H:	
1H	CAA9074A2	WIRE GUIDE BRACKET SUB-ASSEMBLY	1
	CA9146A	ECCENTRIC SCREW	1
	CA9068	ECCENTRIC FRICTION BUSHING	1
	CA9065	ECCENTRIC ROLL	1
	CA9070	ECCENTRIC POINTER	1
	CA9069 CA9067	ECCENTRIC SPRING ECCENTRIC NUT	1 1
8H	D31028F	SET SCREW	1
OH	CA0103C	WIRE STRAIGHTENER ROLL	2
	CA9124	TENSION ROLL CLIP	2
IIH	CA9076	WIRE GUIDE SPRING BRKT ADJ SCREW	1
12H	CB77	FACE PLATE LOCATING BLOCK SCREW	1
13H	CT2606	FACE PLATE LOCATING CLAMP	1
14H	CT2607	FACE PLATE LOCATING BLOCK	1
15LT	CAA2623C	DRIVING SLIDE ASSEMBLY	1
1311	CAA2023C	NOTE: The above assembly includes the following	
	CA2623B	DRIVING SLIDE (ONLY)	-5 P
	CA2007A	DRIVING SLIDE SPRING PLUNGER	
	CA9006A	DRIVING SLIDE SPRING	
	D37327F CA9028	DRIVING SLIDE SPRING PIN DRIVING SLIDE ROTATOR OPERATING PIN	J
	C/15020	BRIVING SEIDE ROTTION OFERTING TH	`
16H	CAAA9013Z2	BENDER BAR ASS'Y COMPLETE	1
	NOTE TI	1/2" CROWN #25 TO #30 RD. WIRE	
	through item 29	ve Bender Bar Assembly includes the following iter	ms
		-	
16H	CAA9013U	BENDER BAR SUB ASSEMBLY	
1711	CAA9026	1/2" CROWN #25 TO #30 RD. WIRE SUPPORTER ASSEMBLY 1/2" CROWN	1
	CA9029	SUPPORTER ASSEMBLY 1/2 CROWN SUPPORTER PIVOT PIN	1
	CAA9014J	BENDER BAR LATCH ASSEMBLY	1
	CA173	PLASTIC CAP	1
	CA9012M	DRIVER BAR ASSEMBLY 1/2" CROWN	1
	CA9112A CA9113A	BENDER BAR FRICTION PLUG BENDER BAR FRICTION PLUG SPRING	1 1
	CA9115	BENDER BAR FRICTION BUSHING	1
	CA9015D	GRIP	1
	CA168	GRIP SPRING	1
	CT413A CB371K	SPRING HOUSING LOCKWASHER	1 1
	CA9024A		1
	CTT2604N		1
	CA9127 CA9058	ROTATOR OPERATING CAM STUD ROTATOR OPERATINGCAM STUD SCREW	1 1
	CA9075	WIRE GUIDE BRACKET SCREW	1
	CA9056C	FACE PLATE RETAINING CLIP	3
	CA9056D	FACE PLATE RETAINING CLIP	1
	CK213 CA2081	SCREW, 4-40 X.500 SOC. HD. SET FACE PLATE RETAINING CLIP SCREW	1 4
	CT9109	BONNET ALIGNMENT SCREW	1
	CA9032C	SUPPORTER SPRING	1
	CA9037	SUPPORTER SPRING BUSHING	1
	CA9081 CA9030	SUPPORTER GUIDE PLATE SCREW SUPPORTER GUIDE PLATE	2 2
7211	CA7030	SOLIONIER GOIDE FLAIE	2

VIII A	~ LPT NO	Proceduration	~mx7
HEM	PART NO.	DESCRIPTION	QTY
	CAA9036B	SUPPORTER SPRING LEVER	1
	CA9034 CA9049A	SUPPORTER SPRING LEVER SCREW WIRE CUTTER OPERATING SLIDE 1/2" CR.	1 1
	CA9049A CA9050A	WIRE CUTTER OP. SLIDE FRICTION PLUG	1
47H	CA9051A	WIRE CUTTER OP. SLIDE FRICTION PLUG SPRING	1
48H	CA9022J	GRIP RELEASE SLIDE 1/2" CROWN	1
49H	CA9025F	FACE PLATE ADJUSTING LEVER	1
50H	CAAA2132W	FACE PLATE ASSY. 1/2" CROWN #22 TO #30 RD. WIRE	1
	through item 56		
	CA9103C	mmiliarous posts of th	2
50H)CA9124 CAA2132W	TENSION ROLL CLIP FACE PLATE SUB ASSY. 1/2" CROWN	4 1
61XX	G+0065+	#22 TO #30 RD. WIRE	
	CA9065A CA9066A	WIRE STRAIGHTENER ECCENTRIC ROLL WIRE STRAIGHTENER ECCENTRIC	1 1
	CA9000A CA172	ECCENTRIC FRICTION LOCKING SCREW	1
	CA9098	TENSION PAWL	1
	CA9103A	CHECK PAWL ROLLER	1
56H	CA9134	TENSION PAWL SPRING	1
	CA9048	WIRE CUTTER	2
	CA9043M	ROTATOR HOLDER #25 TO #30 RD. WIRE	1
	CB75B CA9044A	KEY, WOODRUFF ROTATOR HOLDER SCREW	1 1
	CAA9038E	ROTATOR HOLDER SCREW ROTATOR ASSEMBLY COMPLETE, 1/2" CR.	1
	CA9163C	ROTATOR OPERATING CAM	1
	CAA9046D	ROTATOR OPERATING SPRING ASSEMBLY	1
64H	CTT9003D	BONNET CLAMP ECCENTRIC	1
65H		WIRE GUIDE ASSEMBLY we Wire Guide Assembly includes the following item H:	1 is
(39H)CA9032C	SUPPORTER SPRING	1
	CTT2133C2	WIRE GUIDE SUB-ASSEMBLY	1
	CB651E	SCREW	1
	CA9651	WASHER FELT WASHER, THICK	2 1
	CA9652 CA9653	FELT WASHER, THICK FELT WASHER, THIN	1
	CB860B	NUT	1



ELECTRICAL SCHEMATIC 230 V.A.C.

(SK828B)



Model 306

WHEN ORDERING PARTS, PLEASE STATE: QUANTITY REQUIRED, PART NUMBER, PART NAME, WIRE SIZE AND CROWN WIDTH OF YOUR STITCHER.

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