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SIGNALITE AND HDe PATIENT TRANSPORT
SERVICE METHODS MANUAL

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Approved and Reviewed by: Anand K	Date: 27/Oct/06	<u>SIGNALITE AND HDe</u> <u>PATIENT TRANSPORT</u> <u>SERVICE METHODS MANUAL</u>			
Author: Kiran Kumar M R	Date: 04/Jan/08 (Rev-4)				
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					Rev 4

Revision History

Rev	Date	Author	Change	Description
1	19/01/2004	Narendar.v	Updated	Rev 1 initial release
2	03/03/2005	Narendar.v	Updated	Updated
3	27/10/2006	Kiran	Revised	HDe Table Added and Sections updated
4	04/01/2008	Kiran	Revised	Cradle Release from patient transport, Placement of New Dead stopper assembly, Replacement of Pinch guard and Arm Board bumpers, Dock link assembly and Cradle Handle Added

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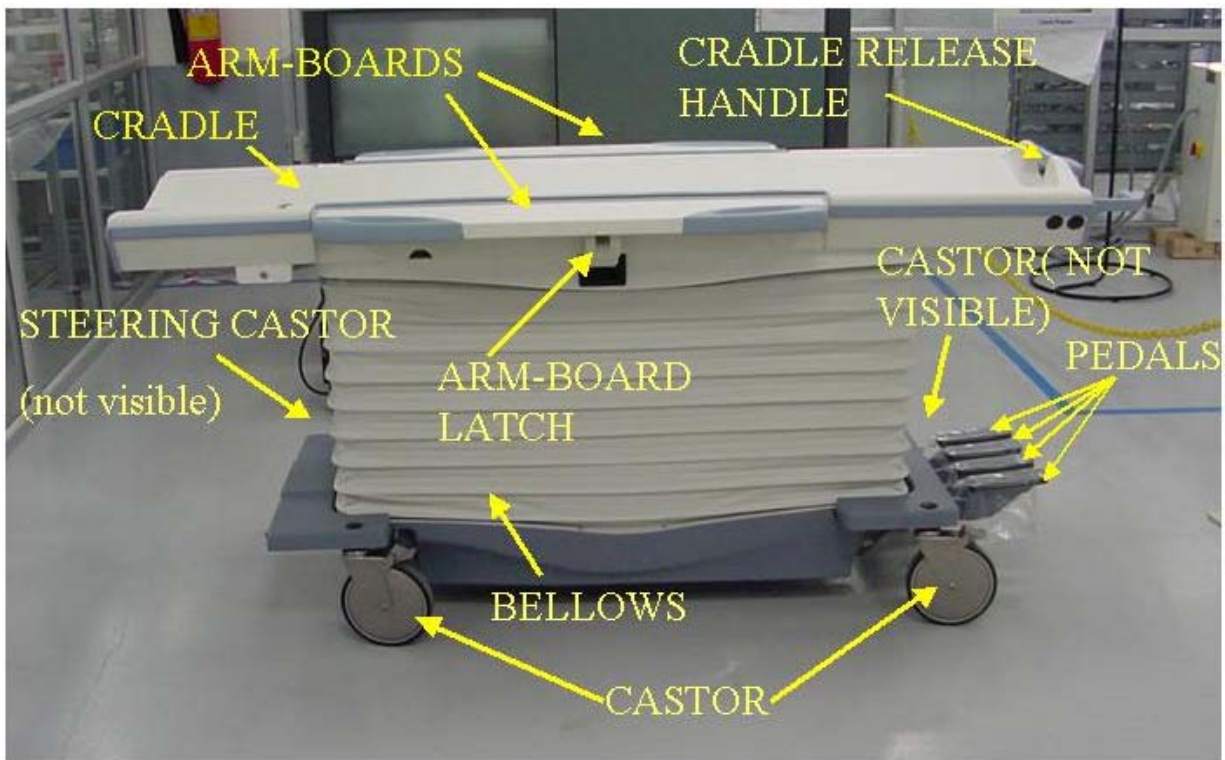
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DESCRIPTION: - Procedures for replacing hardware on the Signalite and HDe patient table. henceforth referred as patient table.

1. PATIENT TABLE COMPONENT REPLACEMENT

Most replacement procedures covering components of the patient table require the pulling up of the bellows. Refer to [Section 3](#) pulling up of bellows to service position, on Patient Table; some replacement procedures also require the removal of the Cradle. Refer to [Section 4](#) Cradle Assembly Removal. See Illustration 1 for location of major components of the patient table.



**SIGNALITE PATIENT TABLE
ILLUSTRATION 1**

2. LIST OF TOOLS USED DURING SERVICE

TOOLS USED	SIZE
Spanners	1/2,3/4,3/8,7/16,5/16,32,
Circlip inserter	A-150,A170
Hex. Socket	9/16,3/4,3/8
Scale	15cms & 30 cms
Ball driver	5/32,5/64,3/32,1/8,7/64,9/16
Allen key	5/32,5/64,3/32,1/8,7/64,9/16
Flat nose plier	
Cutter	
Copper hammer	
Screw driver	8mm, 4mm
Knife	
Soft mallet	
Ratchet Spanner	9/16.
Torque wrench	40-120 kg-cm,10 –50 lb-ft
Twizer	
Extension rods	½” x 10 ”
Universal Coupling	
Consumables	
Loctite / Primer	
242	
569	
680	
415	
770	
White petroleum jelly	
IPA	
White Marker	
Grease	Mobil HSC 32
Cotton waste	White (High grade)



CAUTION!!
MAGNETIC TOOLS SHOULD NOT BE TAKEN NEAR THE MR-SYSTEM; ALL SERVICE ACTIVITIES OF REPLACEMENT SHOULD BE DONE AFTER TAKING THE PATIENT TRANSPORT OUT OF THE MR-ROOM.

Note:

The below instructions apply for Table Sl. no. 2822WH5 onwards for Tables prior to the specified Sl. No Pls. refer annexure 1 attached at the end of this manual.

3. BELLOWS

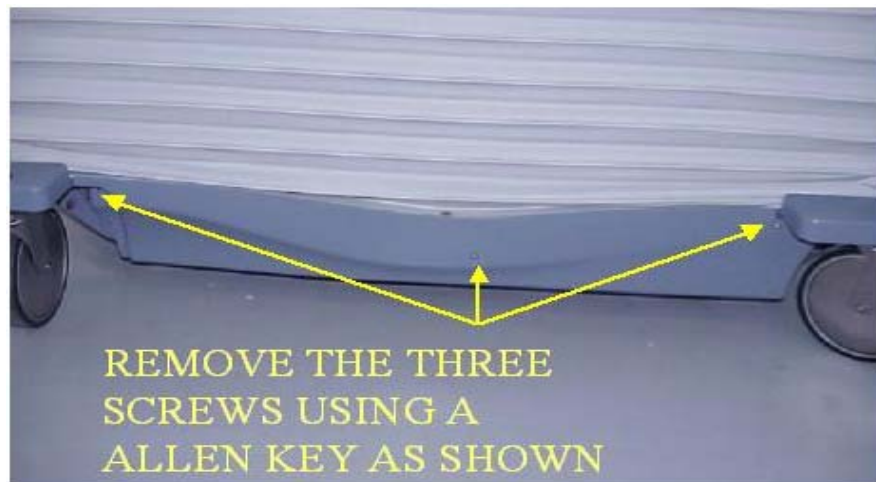
3.1. PULLING UP OF BELLOWS TO SERVICE POSITION

Note: to pull bellows up for service position the bottom cover has to be removed first.

Steps

3.1.1. Undock patient table, and move it out of exam room.

3.1.2. Remove the three screws of the bottom cover using an Allen key as shown (Refer Illustration 2 below). Use the same procedure to remove the bottom cover on the other side of the table also.



**PULLING UP OF BELLOWS TO SERVICE POSITION
ILLUSTRATION 2**

3.1.3. After removal of screws, hold the bottom cover and remove it as shown, refer to Illustration 2A. Remove the bottom cover on the other side of the table also, using the same procedure.



ILLUSTRATION 2A

3.1.4. Remove the two screws fixing the bellows on the front casting, refer to Illustration 2B. To remove these screws use a allen key to hold the screw, and loosen the nut below using spanner, refer to Illustration 2B. After removal of the screws leave the bellows support strip in place for reassembly later, refer Illustration 2C.

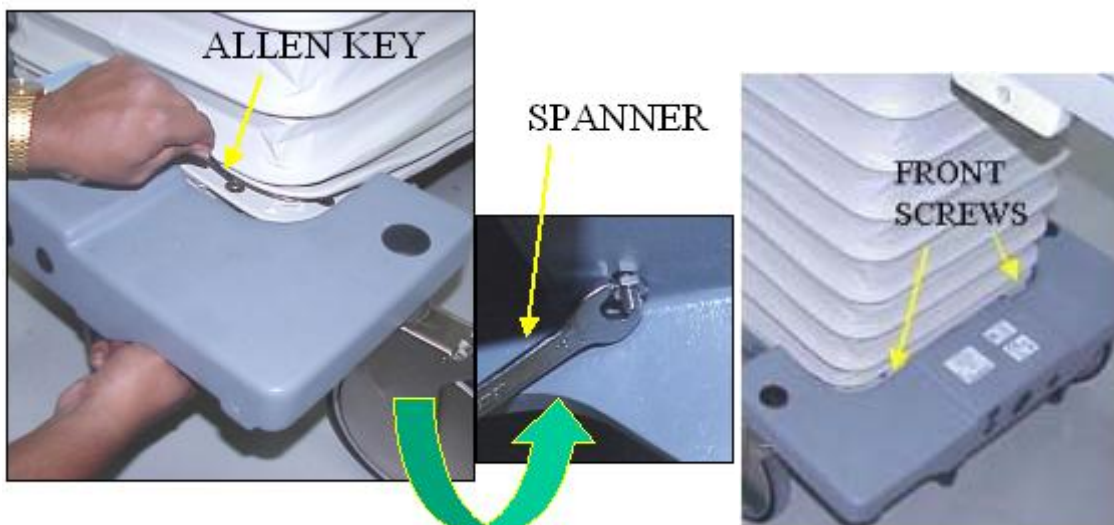


ILLUSTRATION 2B

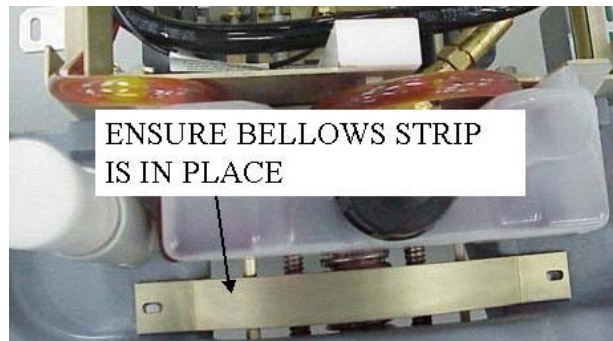


ILLUSTRATION 2C

3.1.5. The bellows are fixed on three brackets on either side, using a screw and nut refer Illustration 2D. Using an Allen key hold the screw and loosen the nut using a spanner, refer Illustration 2D. Repeat the procedure and remove the screws on the other side of the table also.



ILLUSTRATION 2D



CAUTION!!

DO NOT USE ALLEN KEY TO LOOSEN THE SCREW IT IS ONLY FOR HOLDING THE SCREW AND LOOSEN THE NUT BY USING A SPANNER AS SHOWN. IF YOU TRY TO LOOSEN THE SCREW BY ALLEN KEY IT MAY DAMAGE THE HEAD OF THE SCREW.

3.1.6. The rear end of the bellows is fixed onto the rear casting using velcro only, remove the bellows at his end by lifting upwards as shown, refer Illustration 2E.



ILLUSTRATION 2E

3.1.7. Lift the bellows and using the velcro straps provided strap it as shown in Illustration 3. (The Velcro is located inside the bellows and has to be unfolded and then strapped refer Illustration 3A).

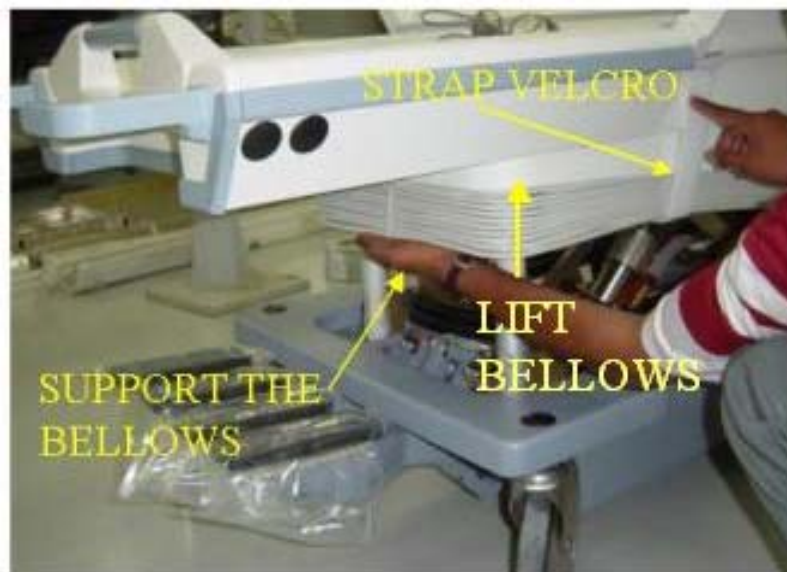


ILLUSTRATION 3



ILLUSTRATION 3A

3.1.8. Strap the bellows on all sides as shown, refer Illustration 3B



**FASTENING OF BELLOWS TO SERVICE POSITION
ILLUSTRATION 3B.**



**CAUTION !
DO NOT MOVE THE TABLE UP/DOWN WHEN THE BELLOWS IS IN
SERVICE POSITION**

3.2 MOVING BELLOWS TO WORKING/NORMAL POSITION.

3.2.1 Unfasten all the Velcro straps from the top condition and bring the bellows to bottom position. Here make sure to fold back the Velcro straps and fasten inside as shown in Illustration 4, otherwise the Velcro strap can get entangled while the bellows is in up/down motion.



ILLUSTRATION 4

3.2.2 Now bring the bellows down and fix the rear end of the bellows using the velcro provided on the rear casting refer to Illustration 4A .



ILLUSTRATION 4A

3.2.3 Next Fix the two screws attaching the bellows on to the bellows strip and then onto the front casting, refer to Illustration 4B. To fix these screws use an allen key to hold the screw and tighten the nut below, refer to Illustration 4C.

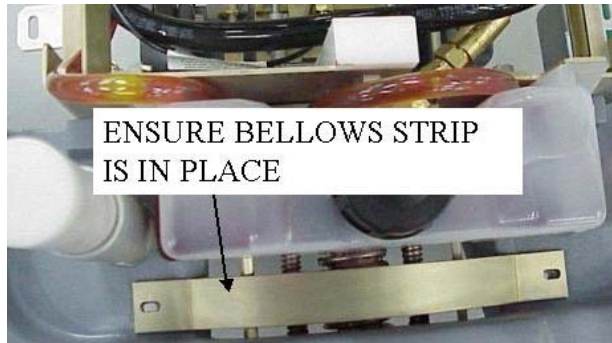


ILLUSTRATION 4B



ILLUSTRATION 4C

3.2.4 Next attach the bellows onto the 3 brackets on either side, refer to Illustration 4D. Fix these screws and use an Allen key to hold the screw and tighten the nut below refer to Illustration 4E.



ILLUSTRATION 4D

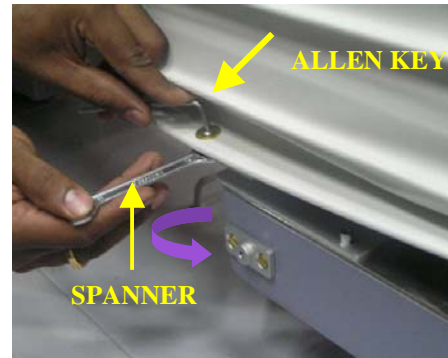


ILLUSTRATION 4E



CAUTION!!
DO NOT USE ALLEN KEY TO LOOSEN THE SCREW IT IS ONLY FOR HOLDING THE SCREW AND LOOSEN THE NUT BY USING A SPANNER AS SHOWN. IF YOU TRY TO LOOSEN THE SCREW BY ALLEN KEY IT MAY DAMAGE THE HEAD OF THE SCREW.

3.2.5 Next assemble the bottom cover using the locator on the casting as shown in Illustration 4F, and slide the bottom cover into position, as shown in Illustration 4G.



ILLUSTRATION 4F



ILLUSTRATION 4G

3.2.6 Fix the bottom cover using 3 screws as shown, refer Illustration 4H, Sequence: Middle screw can be engaged first this will help in holding the bottom cover in location then fit the other 2 screws, and then tighten them in the same sequence refer Illustration 4I, 4J, 4K.



ILLUSTRATION 4H



ILLUSTRATION 4I



ILLUSTRATION 4J

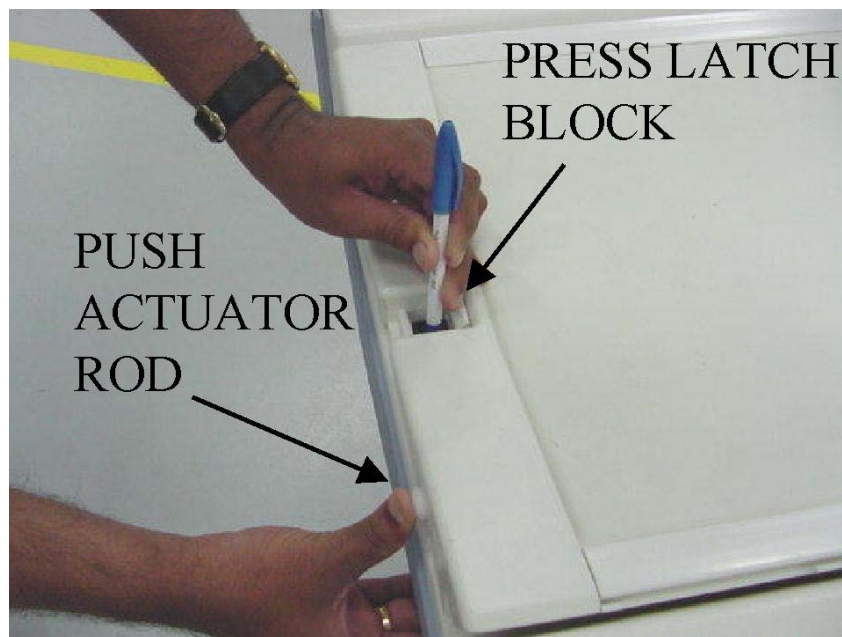


ILLUSTRATION 4K

4. CRADLE ASSEMBLY REMOVAL

4.1 Undock patient table.

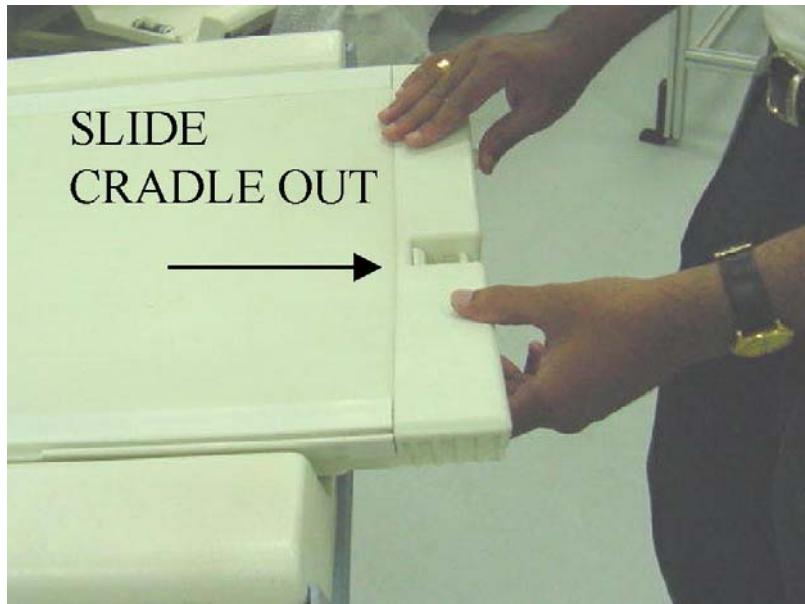
4.2 Press cradle latch block at front end of table with a blunt object (such as a pencil Eraser), and simultaneously push in actuator rod at front of cradle (refer Illustration 5).



PUSHING OF LATCH BLOCK AND ACTUATOR ROD AT FRONT

ILLUSTRATION 5

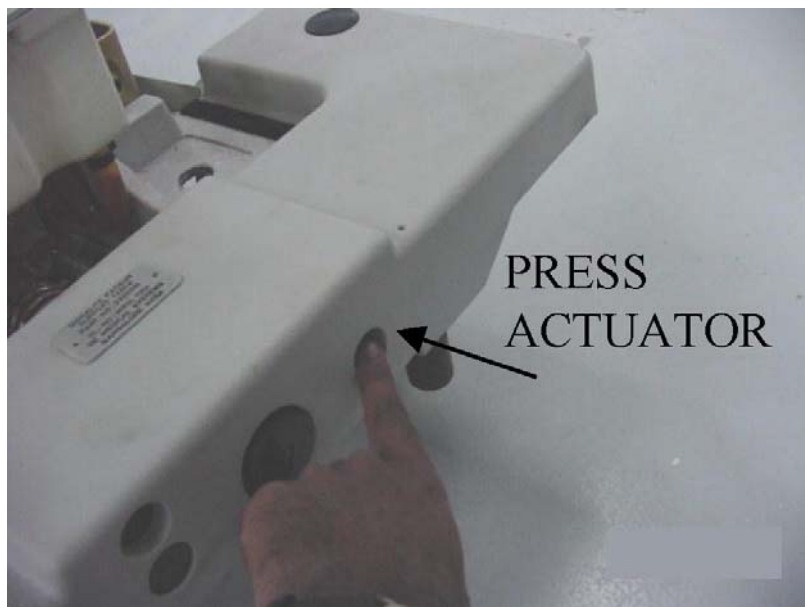
4.3 While holding these actuators, slide cradle forward on patient table approximately three inches. The actuators can now be released. Refer Illustration 6 .



SLIDE CRADLE FORWARD AROUND 3 INCHES

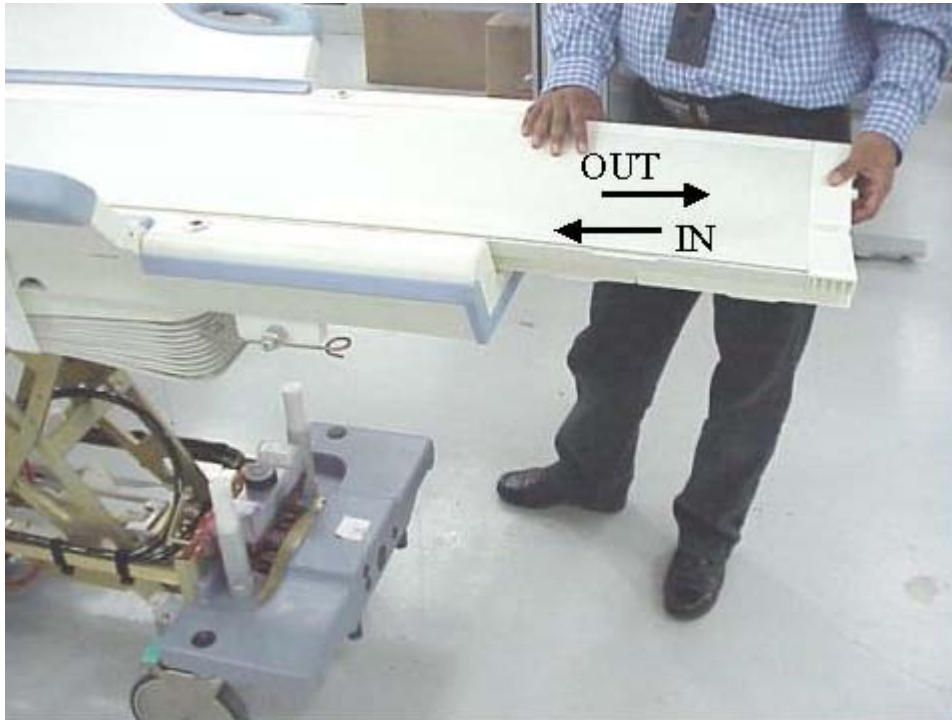
ILLUSTRATION 6

- 4.4** Push in right actuator in base at front end of table, and slide cradle the rest of the way out of the patient table and keep aside ,see Illustration 7 and 8.



PRESS CRADLE ACTUATOR FOR CRADLE REMOVAL

ILLUSTRATION 7



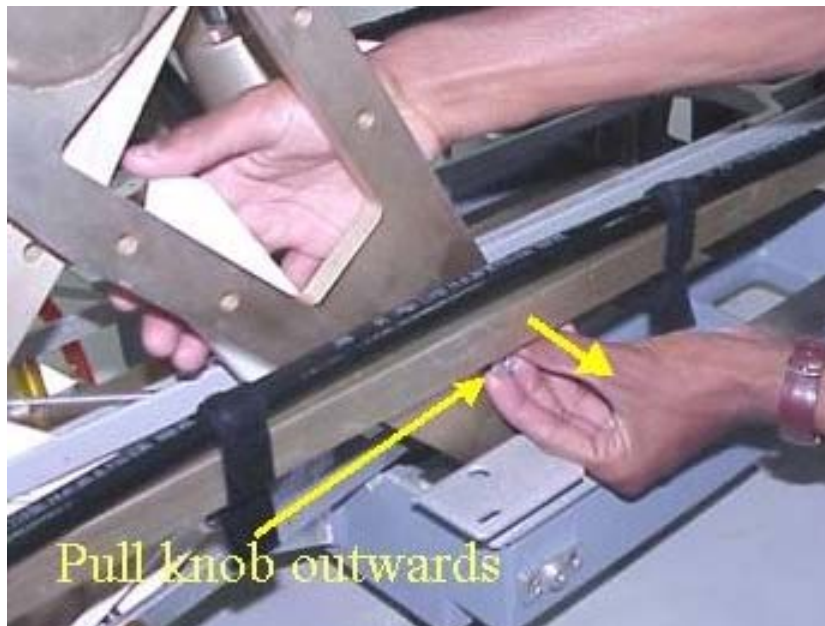
**CRADLE REMOVAL
ILLUSTRATION 8**

- 4.5** To assemble Cradle on to table place cradle on table top as shown in Illustration 8, and slide back and inwards onto the table till it locks into position.

5. SAFETY LATCH BAR.

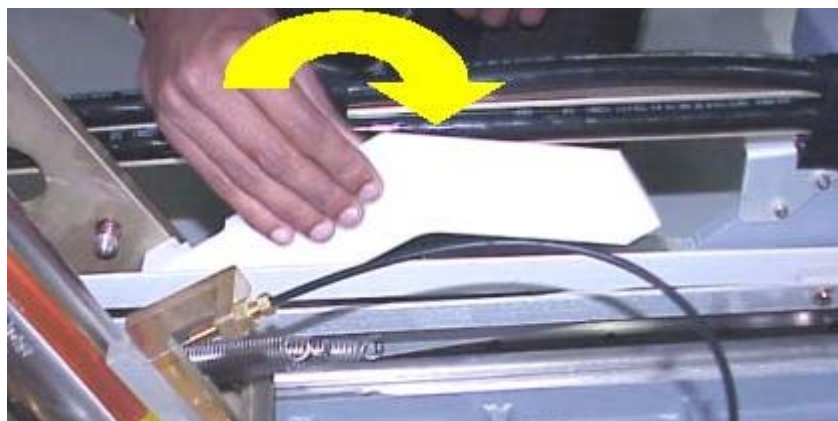
5.1 ENGAGING SAFETY LATCH BAR.

Unhook Safety latch bar by pulling the lock pin as shown, in the Illustration 9 , engage it towards the casting, then lower table by pressing the down pedal until lock bar fully supports table top. (Refer Illustration 10 & 11).



UNLOCKING SAFETY LATCH BAR

ILLUSTRATION 9



ENGAGING SAFETY LATCH BAR

ILLUSTRATION 10

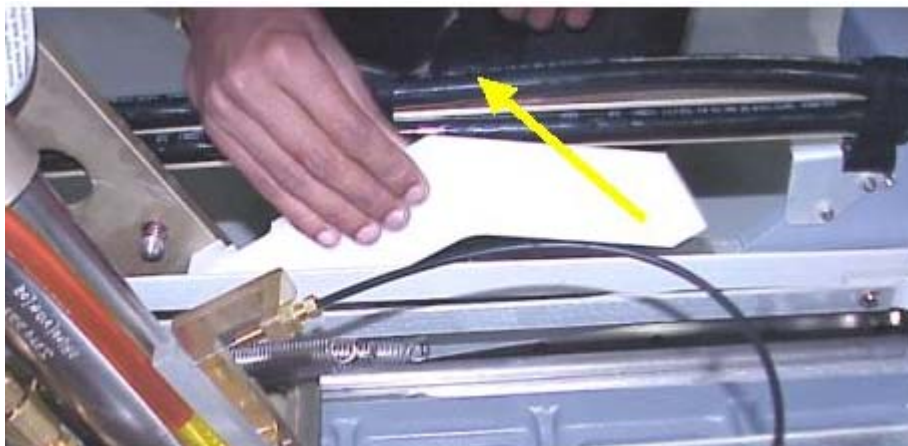


ENGAGING SAFETY LATCH BAR

ILLUSTRATION 11

5.2. DIS-ENGAGING SAFETY LATCH BAR

Pull the safety latch bar away from the supporting rib of the casting and slide it back to its initial position, until it locks back in the spring lock provided. (Refer to Illustration 12, Ensure that the latch bar is firmly locked in its rest position, Refer to Illustration 13 .



DIS-ENGAGING SAFETY LATCH BAR

ILLUSTRATION 12



SAFETY LATCH BAR IN LOCKED CONDITION

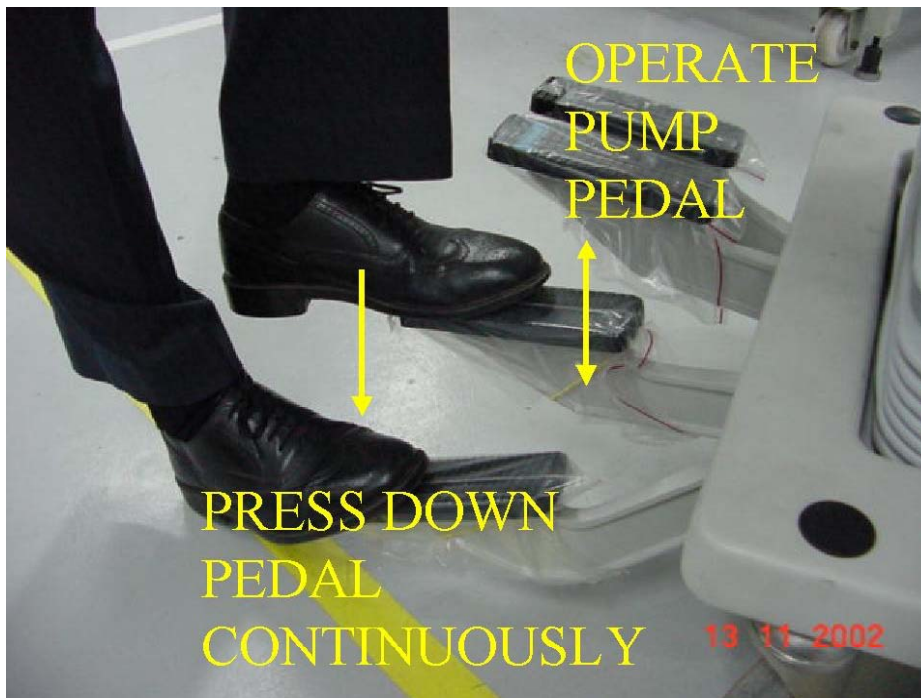
ILLUSTRATION 13

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6. REMOVAL OF AIR FROM THE HYDRAULIC SYSTEM

- 6.1 Press the Down pedal and lower table to its lowest position.
- 6.2 Open the Down valve, by pressing the down pedal and simultaneously operate the pump pedal at least 20 full strokes to purge air from the lines, see Illustration 14.



**REMOVAL OF AIR FROM HYDRAULIC SYSTEM
ILLUSTRATION 14**

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7. REPLACEMENT OF HYDRAULIC CYLINDER

- 7.1 Undock patient table, and move it out of exam room.
- 7.2 Raise table to up position.
- 7.3 Lift Bellows up to service position refer to [SECTION 3-1](#).



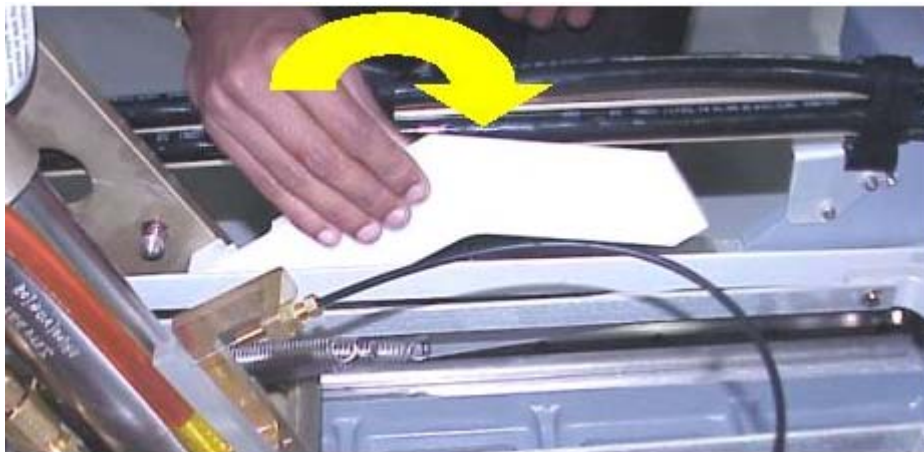
WARNING!!

PERSONAL INJURY POSSIBILITY! WHEN PERFORMING MAINTENANCE ON THE TABLE IN ITS UP POSITION, ENSURE THAT THE SAFETY LOCK BAR IS IN PLACE. SEVERE PERSONAL INJURY CAN OCCUR IF TABLE IS ACCIDENTALLY LOWERED DURING MAINTENANCE. ALSO DO NOT LOAD THE TABLE DURING MAINTENANCE.

- 7.4 Engage the safety latch block, by Unhooking Safety latch bar by pulling the lock pin from the scissor, as shown in Illustration 15A, engage it towards the casting then lower table by pressing the down pedal, until lock bar fully supports table top. (Refer Illustration 15B&15C) .



UNLOCKING SAFETY LATCH BAR
ILLUSTRATION 15A



ENGAGING SAFETY LATCH BAR
ILLUSTRATION 15B

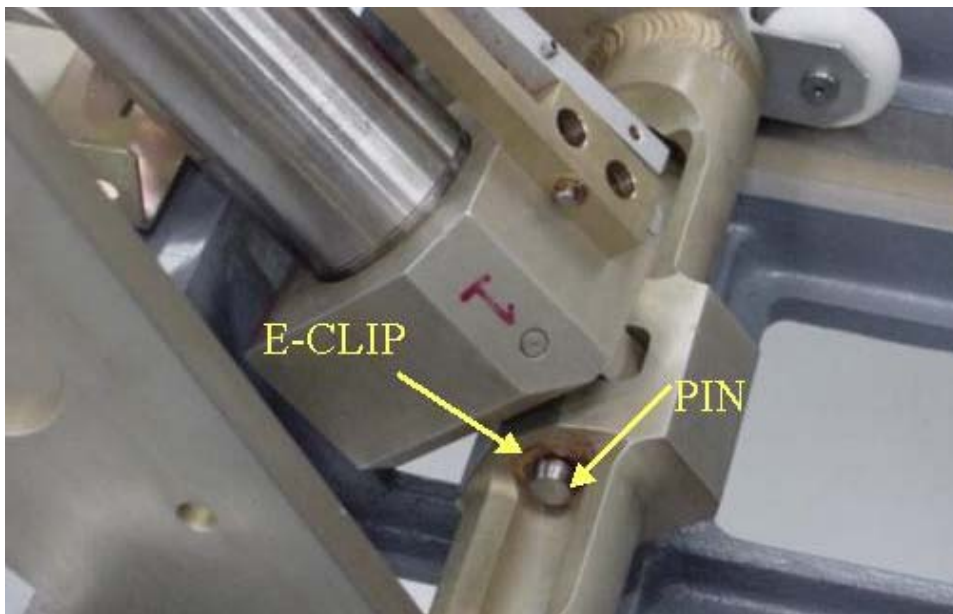


ENGAGING SAFETY LATCH BAR

ILLUSTRATION 15C

7.5 REMOVAL OF HYDRAULIC CYLINDER

7.5.1 Remove E-clip and then remove the pin connecting the cylinder bottom clevis to the scissor, use a flat screwdriver for this, Refer Illustration 15D.



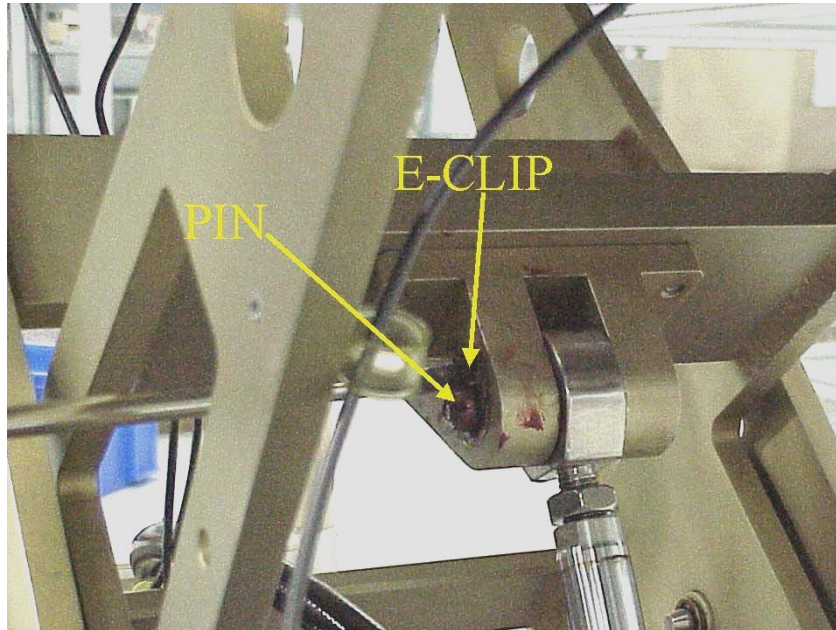
REMOVAL OF E-CLIPS/PIN

ILLUSTRATION 15D

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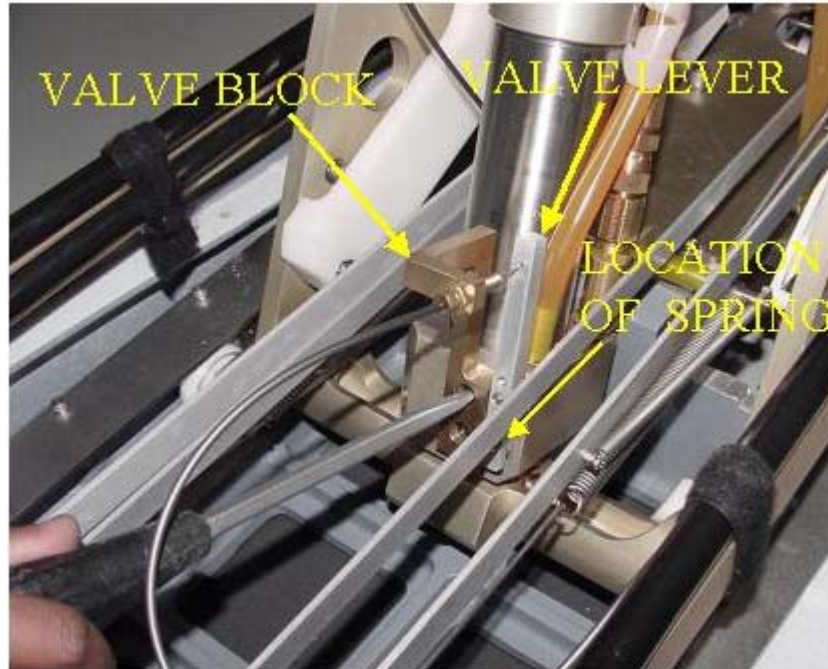
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7.5.2 Remove the E-Clips at the piston end using a flat screwdriver, and remove the pin connecting it, (Refer Illustration 16. for location of e-clip and pin).



**REMOVAL OF E-CLIPS/PIN ON TOP END OF HYDRAULIC CYLINDER
ILLUSTRATION 16.**

7.5.3 Now remove the valve block from the cylinder as shown in Illustration 17 below. Here care should be taken to remove the small spring behind the valve lever, and to carefully store it away for reassembly later.



REMOVAL OF VALVE BLOCK
ILLUSTRATION 17

7.5.4 Remove the cylinder out.

7.5.5 Manually open the down valve and press hydraulic cylinder piston down, until it is fully retracted. (Refer Illustration 18 &19). Disconnect the two hydraulic lines from base of hydraulic cylinder, and fasten upward and aside to avoid spillage. Immediately fold and clamp the translucent (yellow) hose to prevent oil from draining from the reservoir.

Note: The hydraulic cylinder piston cannot be pressed unless the Down valve is opened. See Illustration 18. For location of the down valve on cylinder.



DISCONNECTING THE TWO HYDRAULIC LINES
ILLUSTRATION 18



CYLINDER IN RETRACTED POSITION
ILLUSTRATION 19

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7.6 INSTALL REPLACEMENT HYDRAULIC CYLINDER

7.6.1 Prepare replacement cylinder for installation by pulling cylinder piston, to fully Extended position.

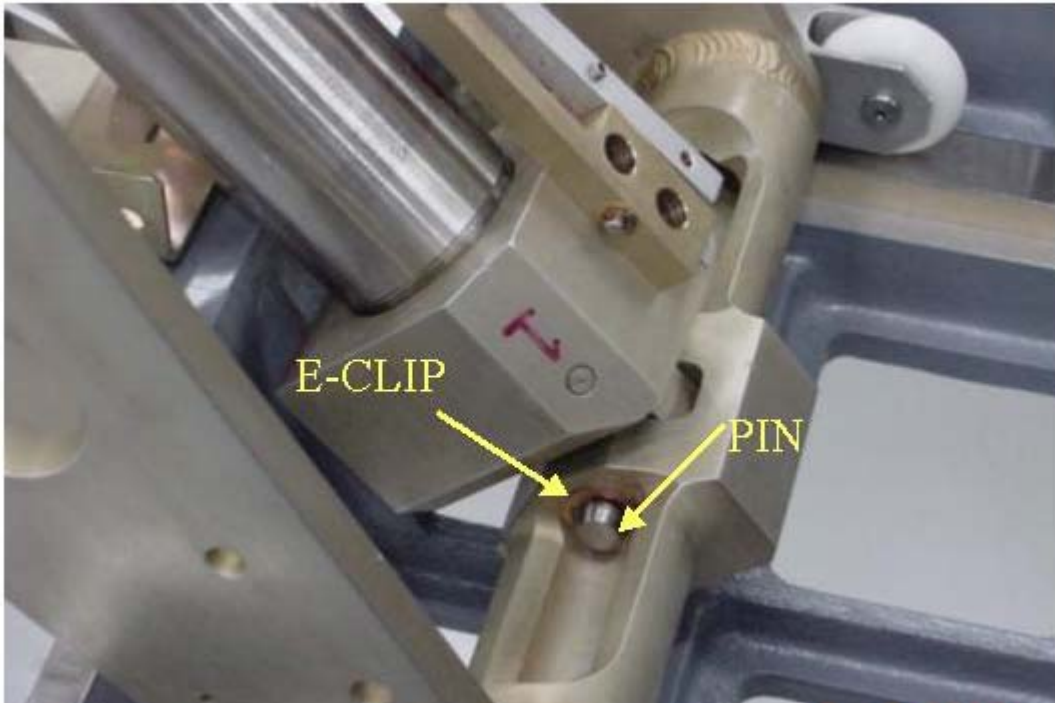
7.6.2 Now position the small spring (removed in step 7.5.3 of previous section) behind the valve lever refer Illustration 20, and then fix the valve block after applying loctite on the threads as shown below in Illustration 20.



**FIX VALVE BLOCK
ILLUSTRATION 20**

7.6.3 Carefully insert the cylinder in Clevis of scissor.

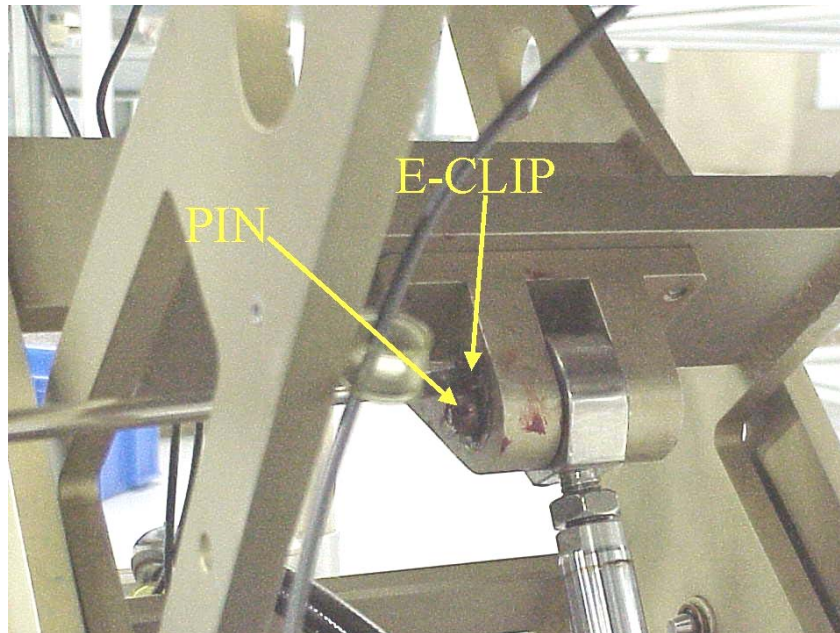
7.6.4 Insert cylinder mounting pin-securing base of hydraulic cylinder to Scissors, (see Illustration 21). And Insert retaining ring and press it down using a flat screwdriver.



PIN AND E-CLIP FIXING ON HYDRAULIC CYLINDER

ILLUSTRATION 21

- 7.6.5** Next connect the two hydraulic lines (HOSES) to base of hydraulic cylinder. Refer Illustration 18 for location of the hydraulic lines.
- 7.6.6** Connect the piston end to the clevis on the scissor using pin and E-Clip, as shown in Illustration 22.

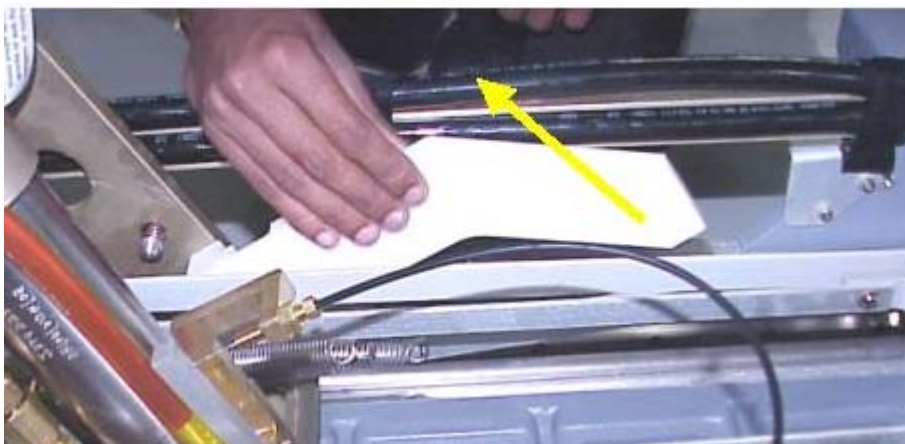


PIN AND E-CLIP FIXING ON PISTON END OF CYLINDER

ILLUSTRATION 22

7.6.7 Put the lock bar to its rest lock position follow steps below.

7.6.8 Retract the safety latch bar and secure with lock, by pulling safety latch bar away from the supporting rib of the casting, and slide it back to its initial position until it locks back in the spring lock provided. (Refer to Illustration 22A. & 22B)



DIS-ENGAGING SAFETY LATCH BAR

ILLUSTRATION 22A

7.6.9 Ensure that the latch bar is firmly locked in its rest position refer to Illustration 22B below.



SAFETY LATCH BAR IN LOCKED CONDITION

ILLUSTRATION 22B

7.6.10 Remove air from the hydraulic system. (Refer to [section 6](#)).

7.6.11 Check the table down most height from Table top (FRP), the height should be 490mm +/- 2mm. If it is differing then the nut on the I-bolt on cylinder piston rod end should be adjusted to achieve the same, refer to Illustration 22C below. Refer to section 7.7 for final checks for hydraulic system.

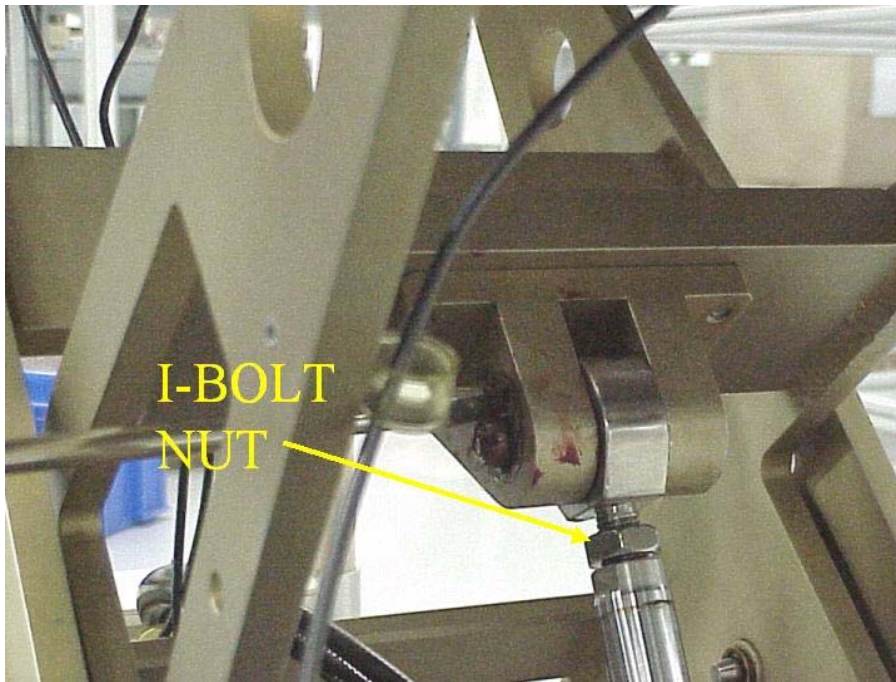


ILLUSTRATION 22 C

NOTE: IN CASE THE CYLINDER HAS FAILED WHEN THE TABLE IS IN LOWER MOST CONDITION PLEASE REFER TO SECTION 17.

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7.7 FINAL CALIBRATION AND CHECKS FOR HYDRAULIC SYSTEM

Note:

The below process varies for table SI Nos 2816WH7,2817WH5, 2818WH3,2819WH1 which have an old design of reservoir, please refer to annexure 2 at the end of this manual for procedure for the same.

7.7.1 Fill reservoir so that oil level is in between the 2 marks shown, when the table is in top most condition (see Illustration 23).



PATIENT TABLE RESERVOIR FILL LEVEL

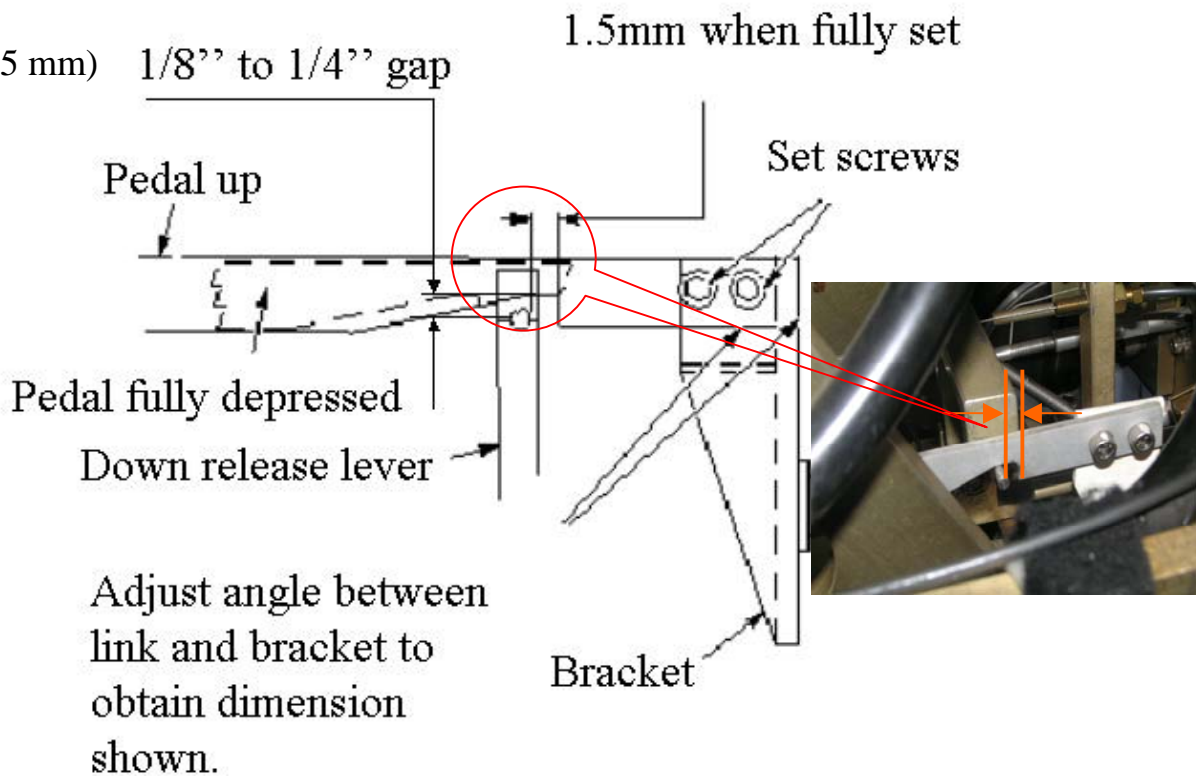
ILLUSTRATION 23

7.7.2 Check down valve linkage adjustment as shown in Illustration 24. Obtain desired Tolerance between Down valve linkage and bracket, by adjusting two setscrews on bracket, refer Illustration 24.

7.7.3 Also follow steps 14.1 to steps 14.14 of [section 14](#) of Installation manual for setting the cable tension for the down release mechanism.

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DOWN VALVE LINKAGE ADJUSTMENT

ILLUSTRATION 24

7.7.4 Replace the bellows to down condition refer [section 3-2](#).

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8. PATIENT TABLE HYDRAULIC PUMP ASSEMBLY

8.1 Removal of Hydraulic Pump Assembly

Note: Have sufficient wipes and a container available to catch hydraulic fluid.

8.1.1 Undock patient table, and move it out of exam room and raise table to up position.

8.1.2 Lift bellows to service position refer to [section 3-1](#).



WARNING!!

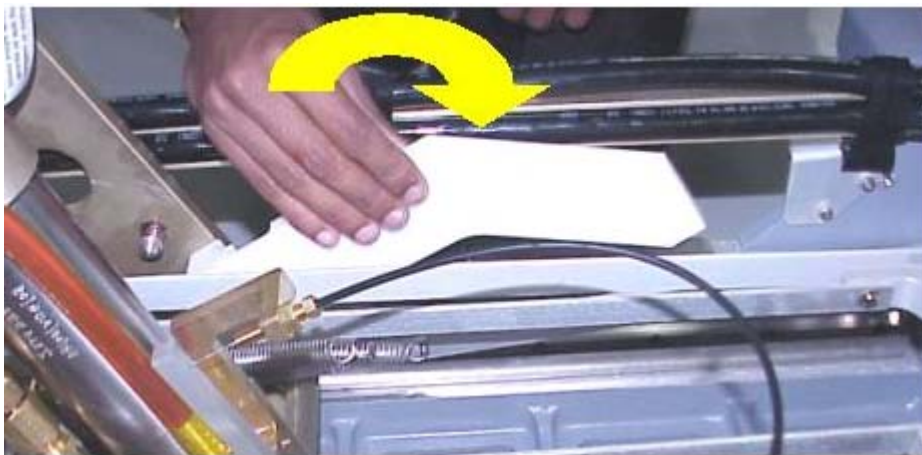
PERSONAL INJURY POSSIBILITY! WHEN PERFORMING MAINTENANCE ON THE TABLE IN ITS UP POSITION, ENSURE THAT THE SAFETY LOCK BAR IS IN PLACE. SEVERE PERSONAL INJURY CAN OCCUR IF TABLE IS ACCIDENTALLY LOWERED DURING MAINTENANCE PERFORMANCE. ALSO DO NOT LOAD THE TABLE DURING MAINTENANCE.

8.1.3 Engage the safety block by Unhooking Safety latch bar, by pulling the lock pin from the scissor as shown in Illustration 24A, engage it towards the casting, and then lower table by pressing the down pedal until lock bar fully supports table top. (Refer Illustration 24B & 24C).



UNLOCKING SAFETY LATCH BAR

ILLUSTRATION 24A



ENGAGING SAFETY LATCH BAR

ILLUSTRATION 24 B



ENGAGING SAFETY LATCH BAR

ILLUSTRATION 24C

8.1.4 After engaging the safety block remove the reservoir as explained below, In Illustration 25 and 25A. Remove the 4 screws connecting the reservoir to the front bracket and keep reservoir aside.

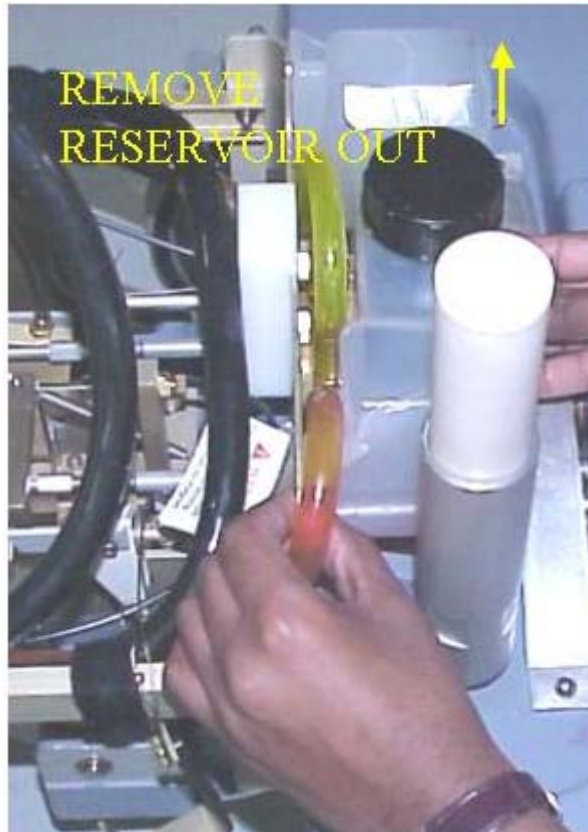


RESERVOIR REMOVAL

ILLUSTRATION 25

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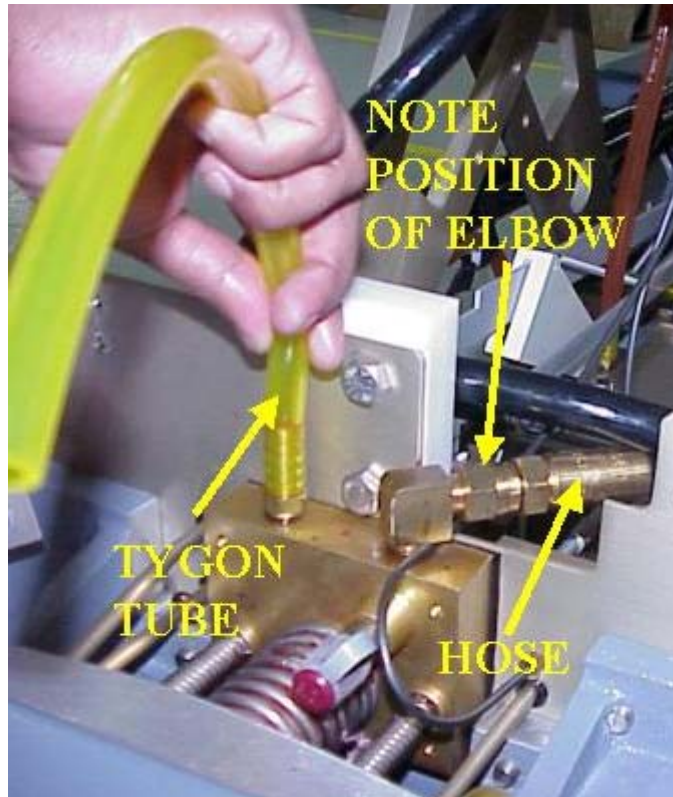
Doc No.2377126



RESERVOIR REMOVAL

ILLUSTRATION 25A

8.1.5 Disconnect the tygon tube and hose connected to hydraulic pump assembly, fasten the Hose upward and aside to avoid spillage. Also immediately fold and clamp the tygon tube from reservoir to prevent oil draining from the reservoir (see Illustration 26).



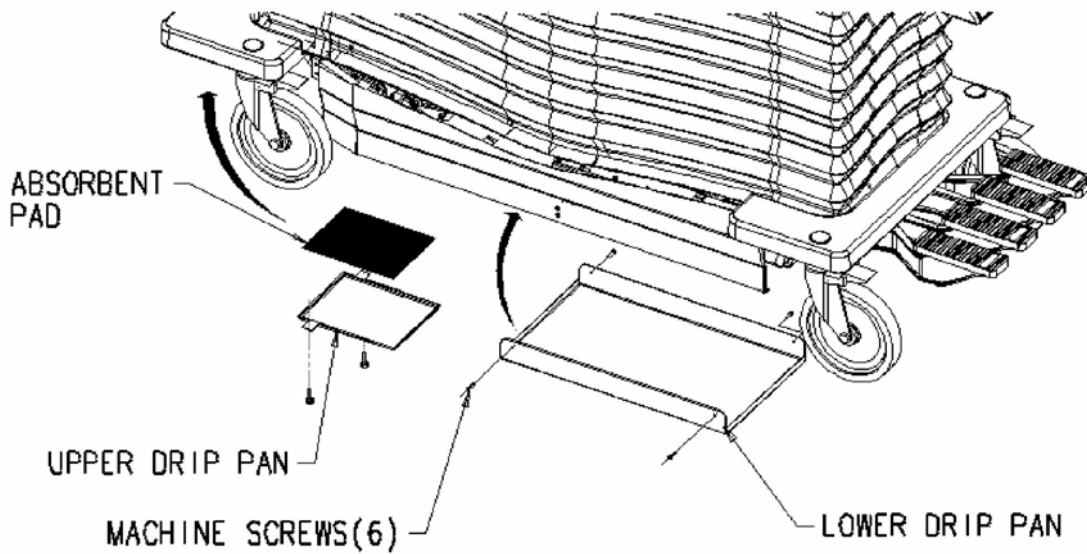
HYDRAULIC PUMP ASSEMBLY

ILLUSTRATION 26

8.1.6 Loosen the two mounting screws attaching upper drip pan to front casting (see Illustration27). Remove the Upper drip pan.

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UPPER AND LOWER DRIP PANS

ILLUSTRATION 27

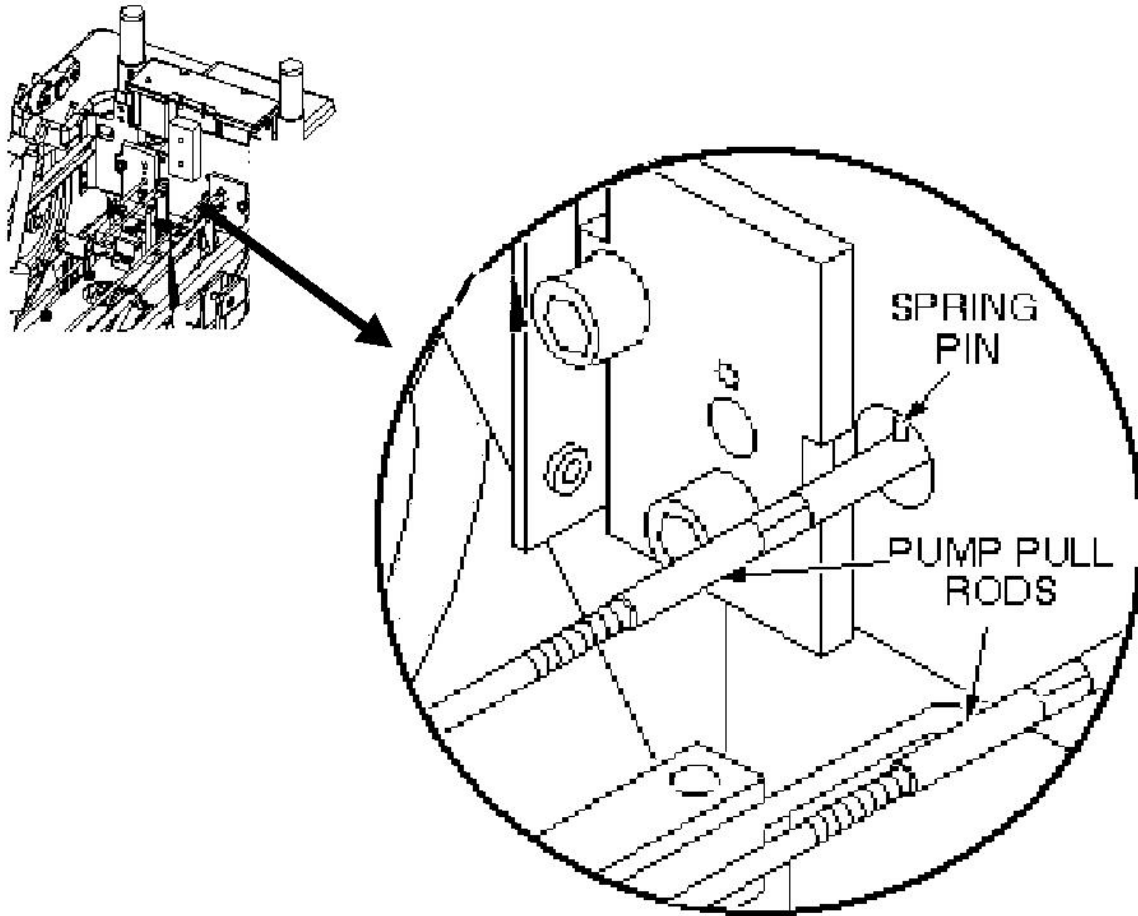


CAUTION!

Equipment damage possibility! . Do not remove spring pins from either end of pump pull rods; this will cause a side loading on the pump, requiring its replacement. The pump pull rods are disconnected from the pump linkage by turning the pump pull rods in a counterclockwise direction after tension has been removed from the pump springs. This is explained in the following procedure. The pump pull rod spring pins are exposed only when the Table Up pedal is pressed (see Illustration 28).

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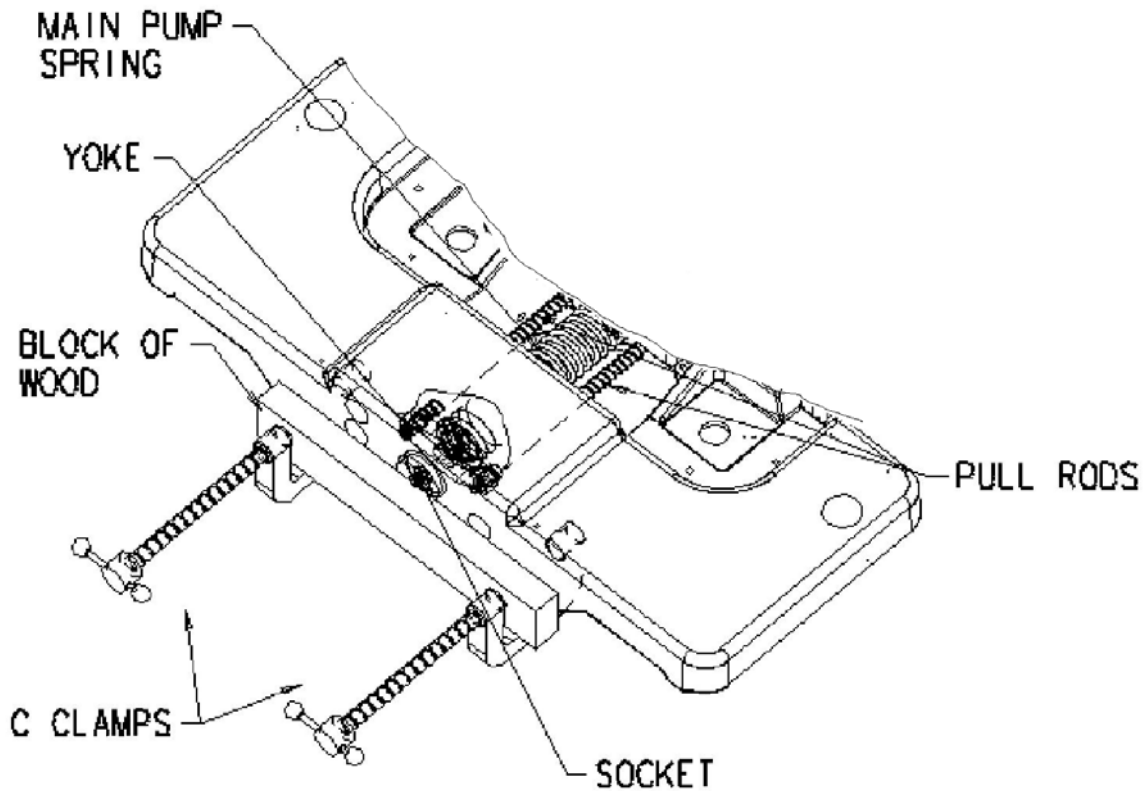
POSITION OF PUMP PULL ROD SPRINGS.

ILLUSTRATION 28

8.1.7 Compress main pump spring, as shown in Illustration 29 using a c-clamp, to remove tension from pull rods. Place any Block below up pedal to take its weight off the pull rods.

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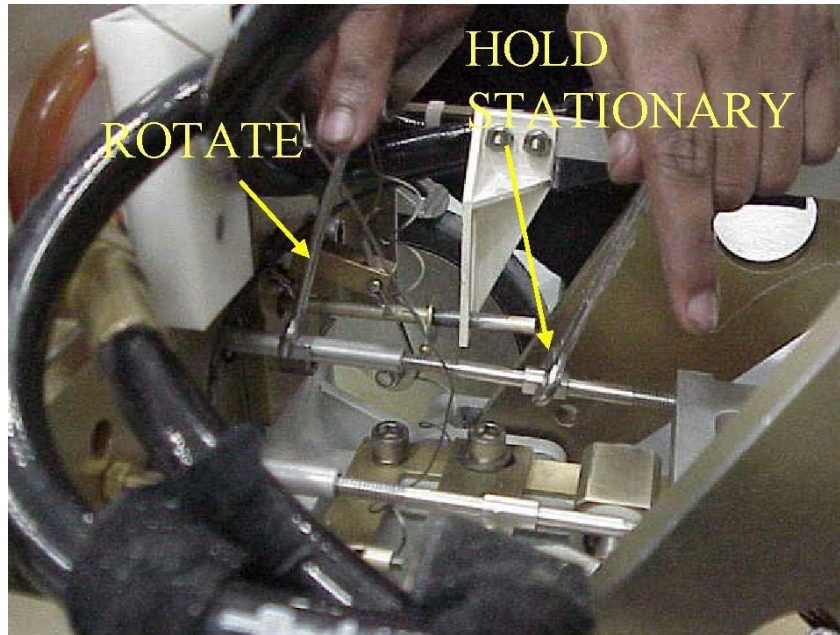
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COMPRESS MAIN SPRING

ILLUSTRATION 29

8.1.8 Push the yoke back and unscrew the pull rods from the pump linkage (see Illustration 29 and Illustration 30.)

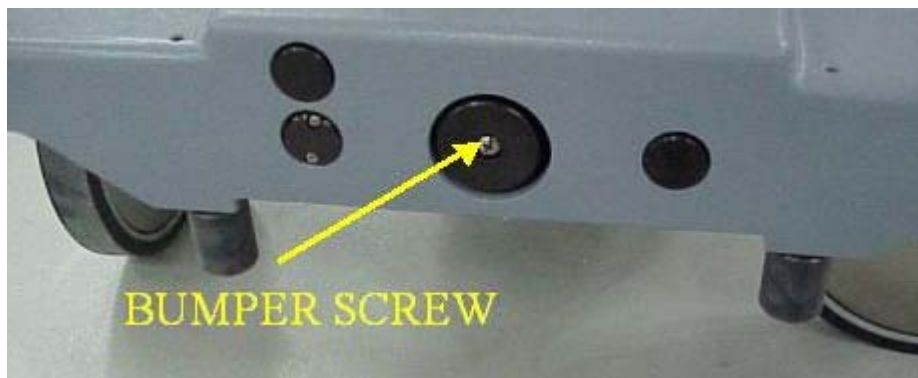


HYDRAULIC PUMP PULL RODS

ILLUSTRATION 30

8.1.9 Remove c-clamps used to compress main spring, shown in Illustration 29.

8.1.10 Remove machine screw securing bumper to the pump piston, (see Illustration 31).



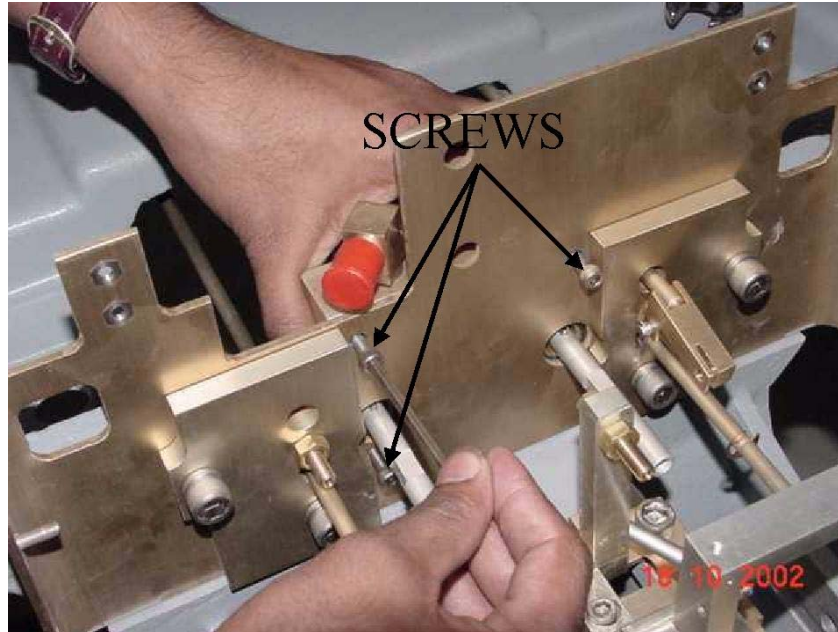
REMOVAL OF BUMPER SCREW

ILLUSTRATION 31

8.1.11 Remove three mounting cap screws that secure pump assembly to front le support. (Refer Illustration 32).

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REMOVAL OF MACHINE SCREW

ILLUSTRATION 32

8.1.12 Remove hydraulic pump assembly and gasket.

8.1.13 If absorbent pad attached to upper drip pan appears to be saturated with fluid, remove it and squeeze out fluid.

8.2 Installing Replacement Hydraulic Pump Assembly

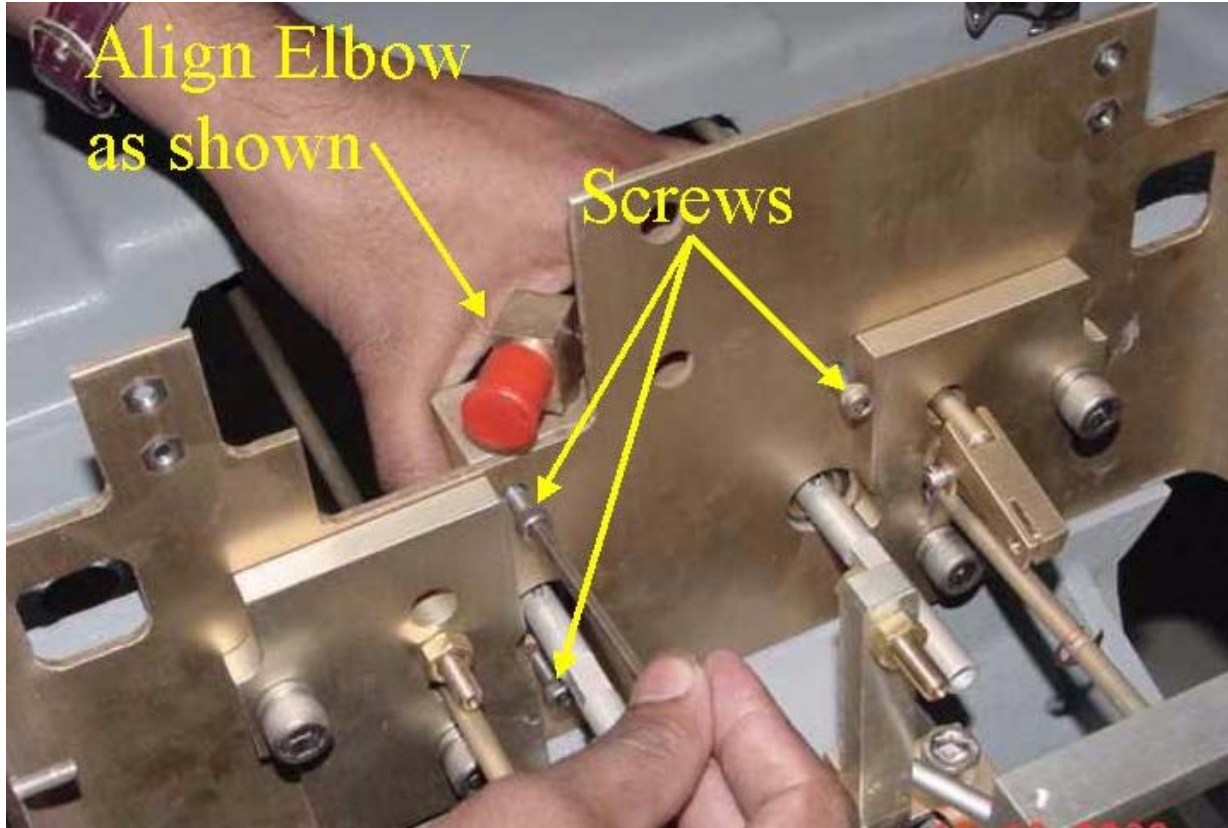
8.2.1 Prepare replacement pump for installation by applying Loctite 242 to three mounting screws and to machine screw that secures bumper to pump piston.

8.2.2 Set replacement pump assembly on front support of table, make sure that gasket is installed properly, and secure with three mounting screws (see Illustration 33). (For clarity the other components have been removed to show the screws.)

8.2.3 Secure the bumper to the pump piston with machine screw.

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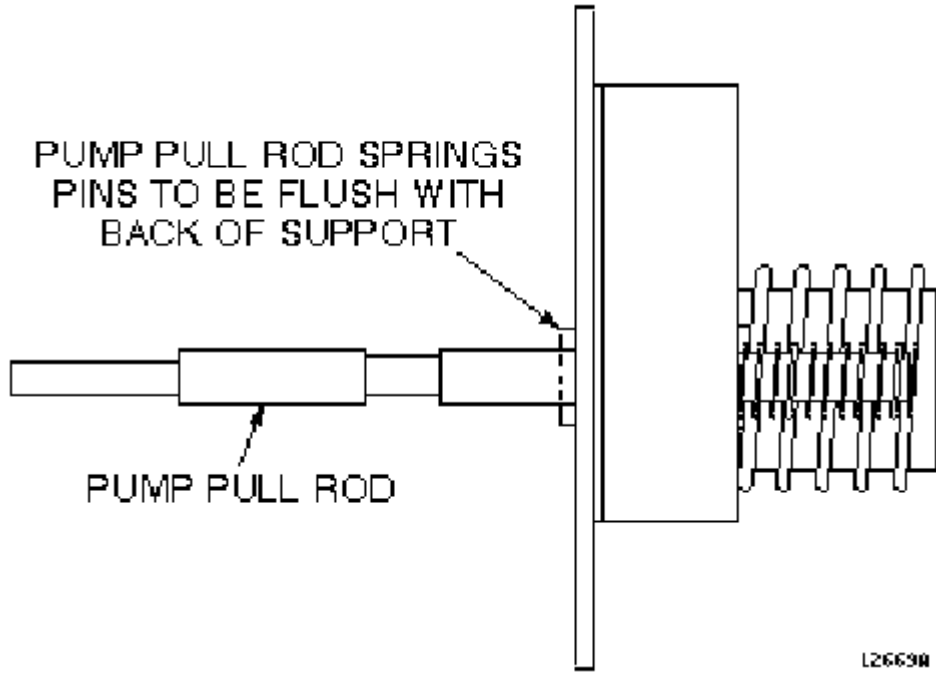
SECURING 3 MOUNTING SCREWS

ILLUSTRATION 33

8.2.4 Reinstall c-clamps on front support, as shown in Illustration 35, to compress main Pump spring. Screw pump pull rods into pump linkage (see Illustration 30), alternately tighten each side to avoid side loading the pump. Stop when the rear springs pin on each pull rod is 1/8-inch (3.2 mm) from pump body (flush with back surface of front support) See Illustration 34.

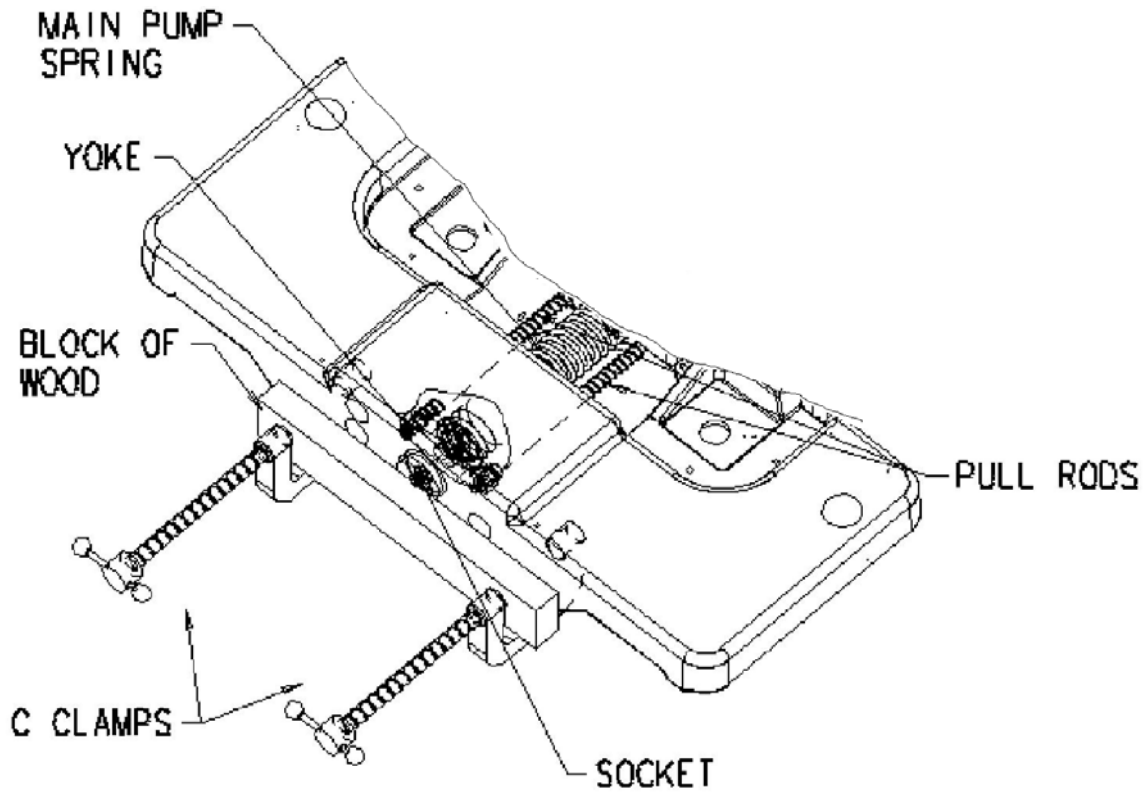
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PUMP PULL ROD ADJUSTMENT

ILLUSTRATION 34



INSTALLING C-CLAMP TO COMPRESS MAIN SPRING

ILLUSTRATION 35

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8.2.5 Connect the two hydraulic lines to hydraulic pump assembly, (see Illustration 36).

8.2.6 Now fix reservoir back into position as shown below, using 4 screws.
See Illustration 36 below.

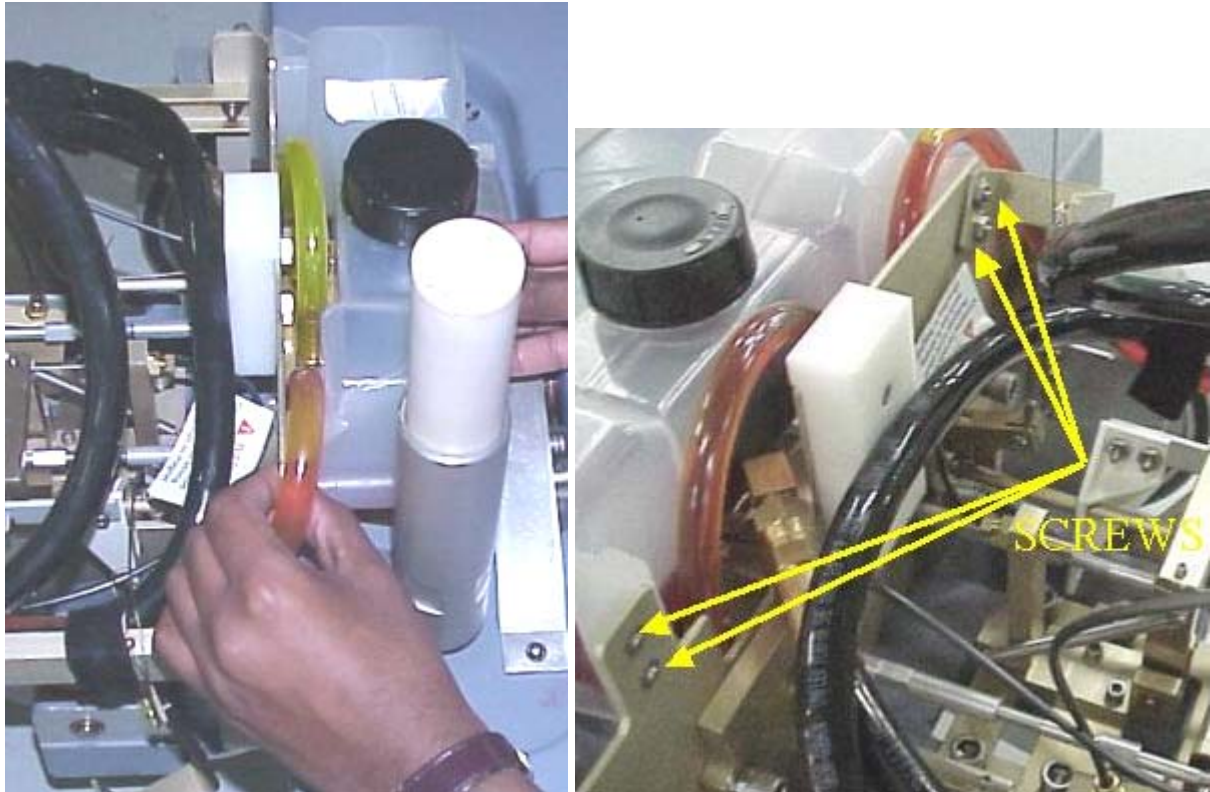
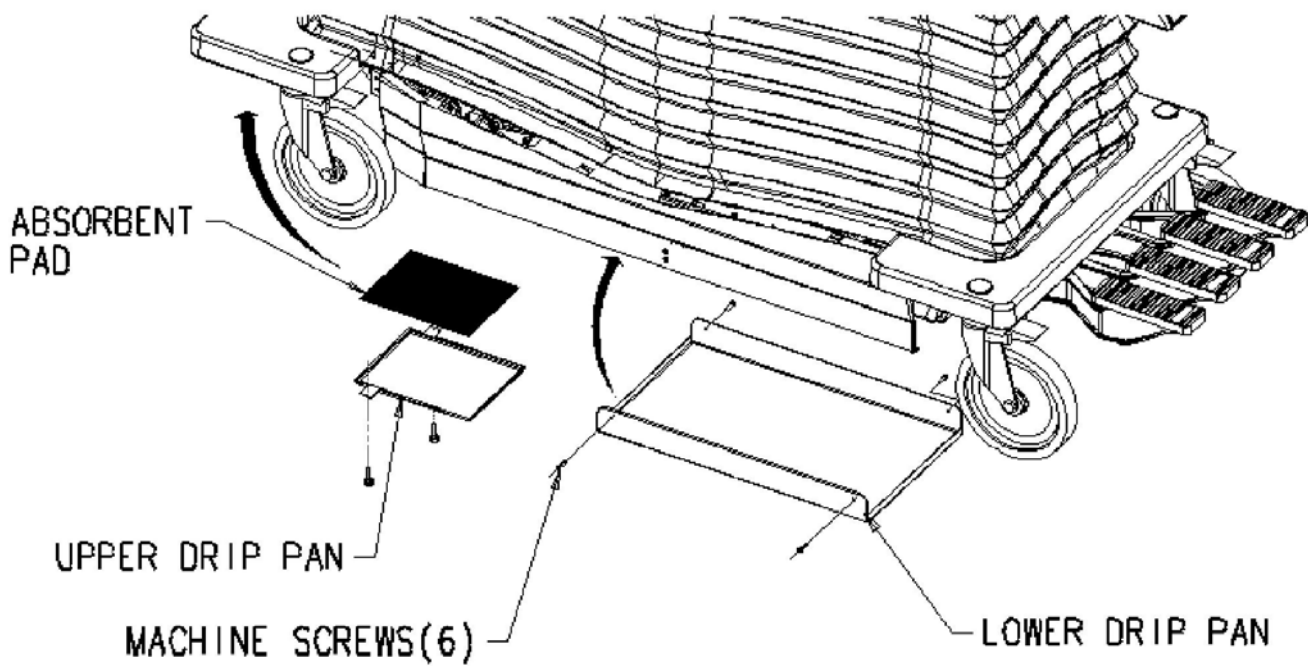


ILLUSTRATION 36

8.2.7 Attach upper drip pan (see Illustration 37).



UPPER DRIP PAN

ILLUSTRATION 37

- 8.2.8** Verify that pump pull rods are adjusted equally by comparing position of rear spring pins on pump pull rods (see Illustration 28).
- 8.2.9** Remove the air from the hydraulic system for this refer to procedure specified in [section 6](#).
- 8.2.10** Retract the safety latch bar and secure with lock refer to below steps.
- 8.2.11** Pull the safety latch bar away from the supporting rib of the casting and slide it back to it initial position until it locks back in the spring lock provided. Refer to Illustration 37A.

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DIS-ENGAGING SAFETY LATCH BAR

ILLUSTRATION 37A

8.2.12 Ensure that the latch bar is firmly locked in its rest position refer to Illustration 37B.



SAFETY LATCH BAR IN LOCKED CONDITION

ILLUSTRATION 37B

8.2.13 Move bellow to down / working position. Refer to [section 3-2](#) .

9. PATIENT TABLE CASTERS REPLACEMENT

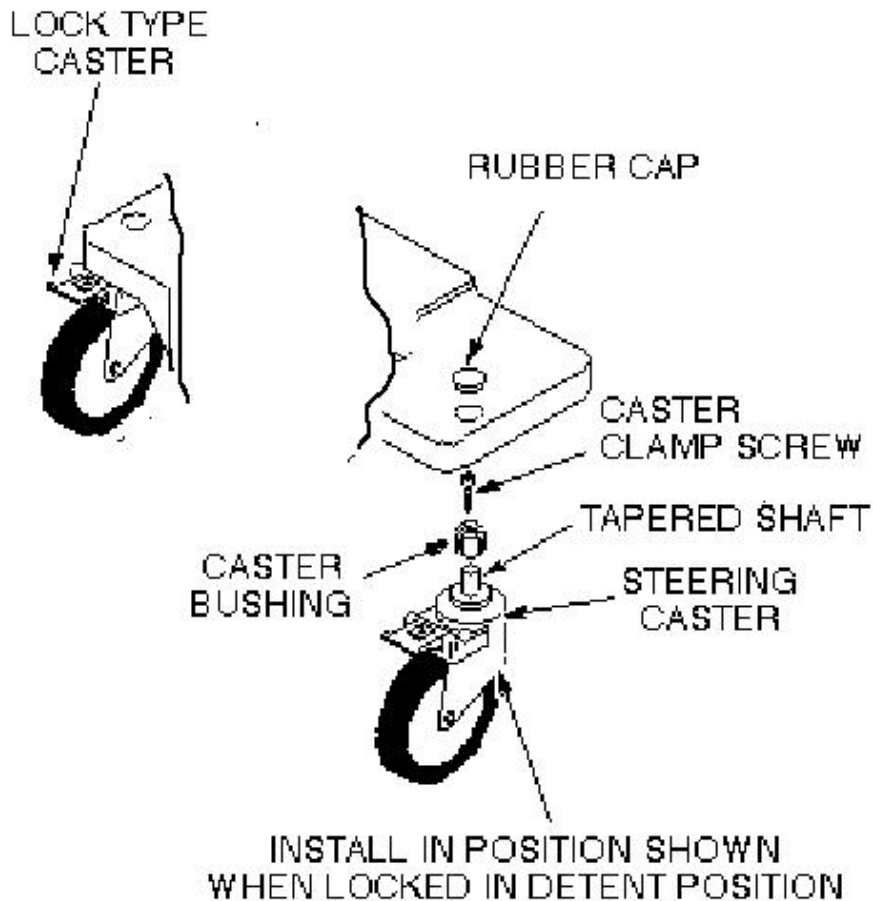
FIELD-SUPPLIED MATERIALS

- Synthetic Lubricating Grease 46-256047P1
- Block of wood to support table when casters are being replaced.

There are two types of casters on the patient table: a straight-line tracking (steering) Caster that is mounted on the right front side of the patient table, and three lock type Casters on the other corners (see Illustration 38).

Procedure

- 9.1 Unlock patient table, and move from exam room.
- 9.2 Prepare block of wood to support table when casters are replaced.
- 9.3 Remove rubber cap from the caster to be replaced (see Illustration 38).



CASTER WHEEL ASSEMBLY

ILLUSTRATION 38

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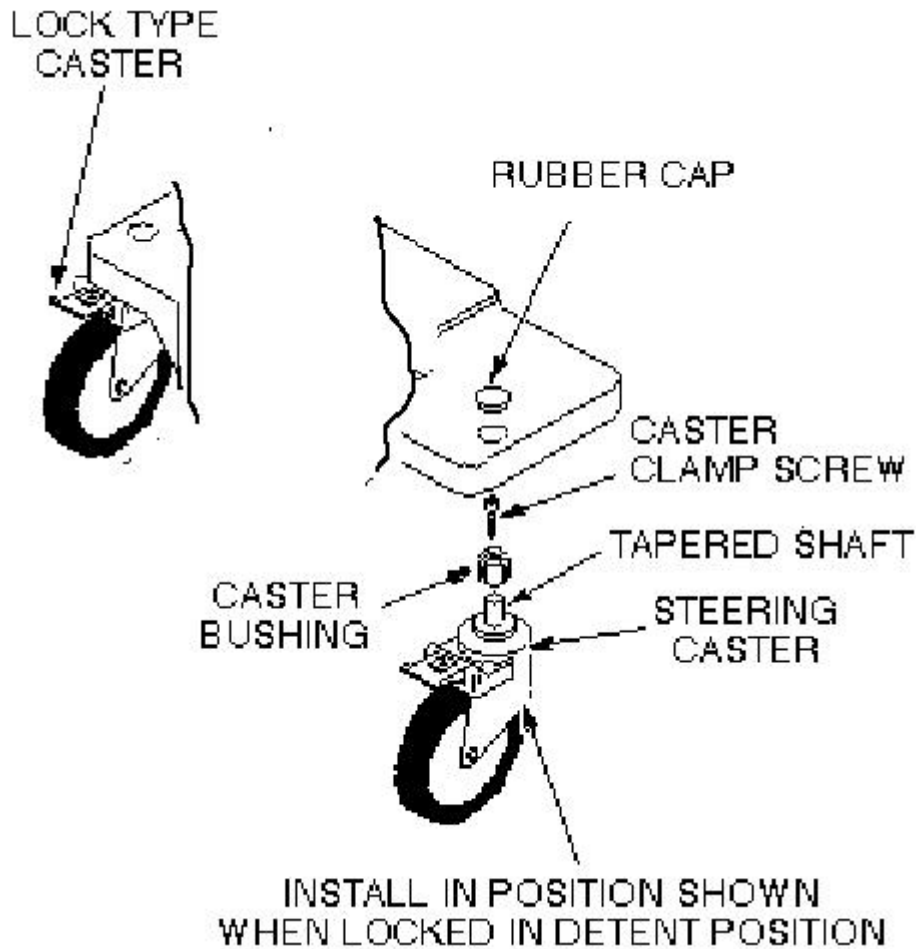
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- 9.4 Remove caster clamp screw (center screw) from the caster to be replaced.
- 9.5 Repeat steps 9.3 and 9.4 on any one of the other casters, because two caster clamp screws are required to force the tapered caster shaft out of the caster bushing on the defective caster.
- 9.6 Return to the caster to be replaced. Thread the two caster clamp screws in the vacant caster release screw holes of the caster bushing. Force the tapered caster shaft out of the caster bushing by tightening two caster clamp screws, equally, a little at a time, until caster taper fit breaks loose and caster falls off.
- 9.7 Be sure that bushing is not bell-mouthed at bottom. If bushing is damaged, remove by turning out of the bottom of the casting using a 3/4-inch (19 mm) socket.

Note

If new bushing is required, apply synthetic lubricating grease to inside taper and Threads of bushing before installation.

- 9.8 Using synthetic lubricating grease, lubricate tapered stem of caster and threads of caster clamp screw.
- 9.9 Install new caster into bushing. Straight line tracking (steering) caster should be installed so that it is oriented in position shown when locked in detent position (see Illustration 39).



CASTER WHEEL ASSEMBLY

ILLUSTRATION 39

- 9.10 Install caster clamp screw and tighten.
- 9.11 Remove support wood blocks.
- 9.12 Perform procedure for Signalite patient transport (refer installation manual) [Section 3-3](#), Checking Caster Height Adjustment.



CAUTION!!

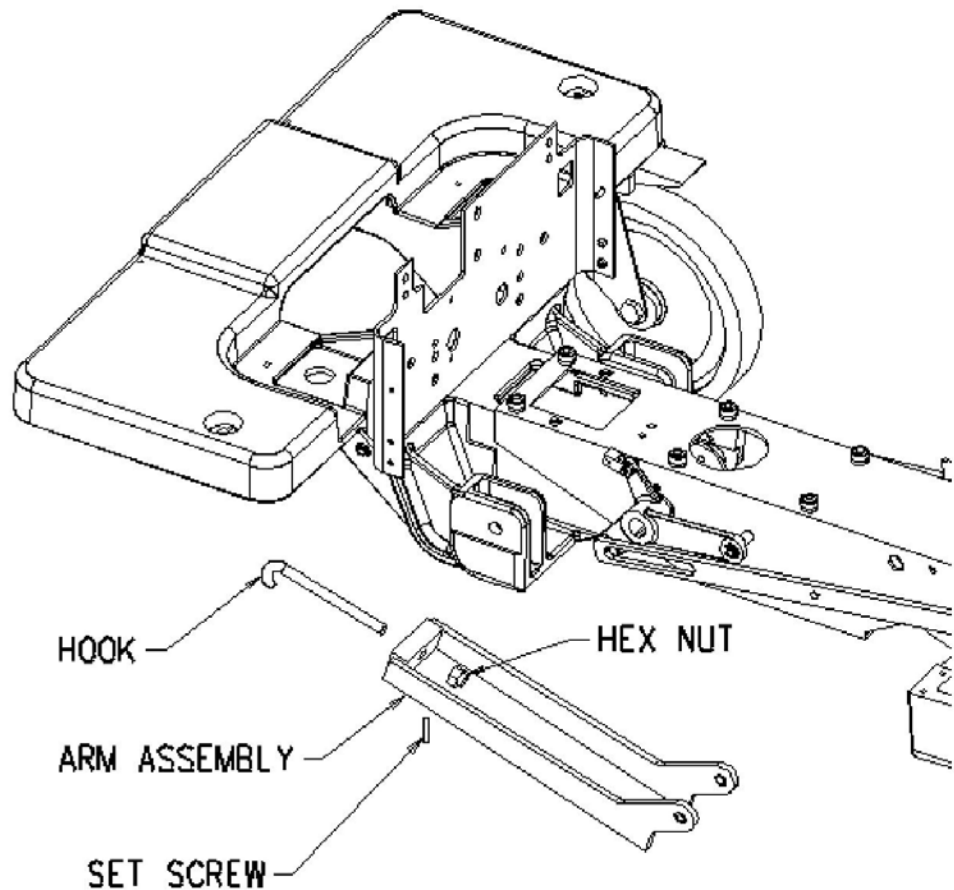
Equipment damage possibility. Caster adjustments must be done according to section 3-3 of installation manual, Procedure for Checking Caster Height Adjustment. Misadjustments leave caster bushing vulnerable to damage, which can result in injury to patient and/or persons near patient table.

10. DOCK HOOK

10.1 Undock patient table, and move from exam room.

10.2 Loosen setscrew under the arm assembly (see Illustration 40).

10.3 Remove hex jams nut from the hook and then unscrew hook from the arm assembly (see Illustration 40).



PATIENT TABLE DOCK HOOK

ILLUSTRATION 40

10.4 Install new dock hook, but do not lock down until adjustment is complete.

10.5 Move patient table into exam room.

Note: If dock hook appears deformed or stretched after extended use, this indicates that it may be yielding, which can lead to fatigue failure. If this occurs, replace the hook, rather than tightening it.



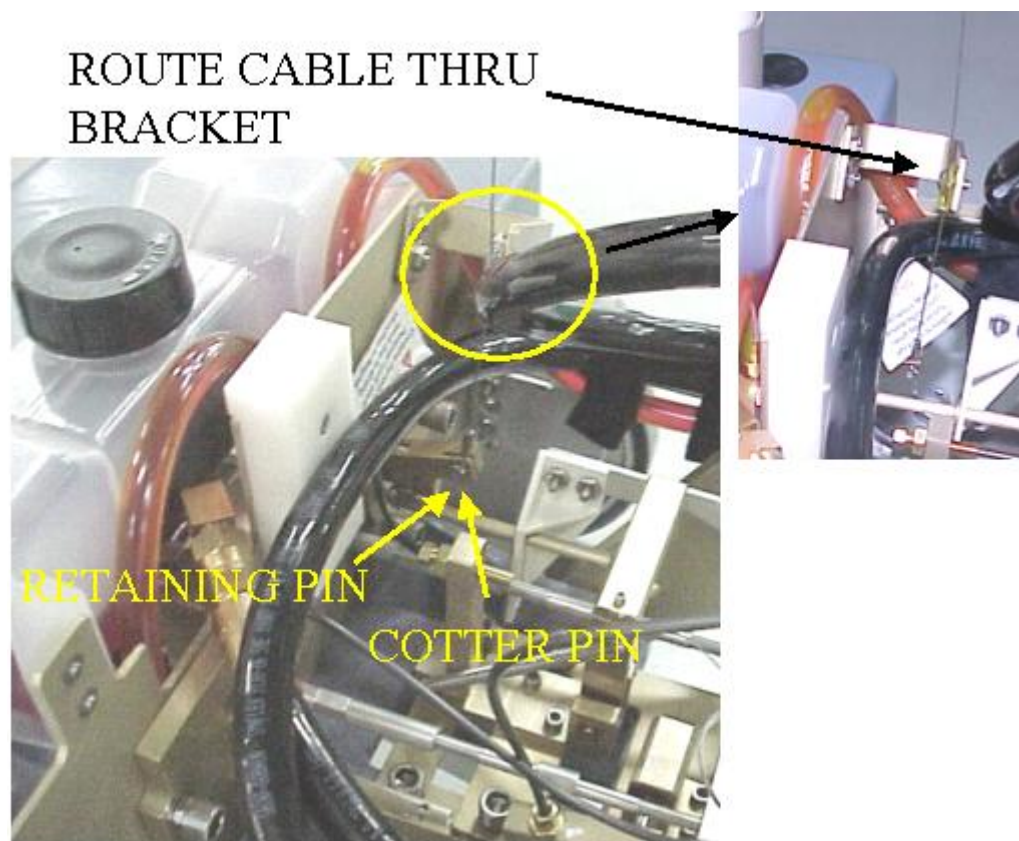
WARNING!

EQUIPMENT DAMAGE POSSIBILITY! IF THE DOCK HOOK IS ADJUSTED TOO TIGHTLY, AND AN ATTEMPT IS MADE TO DOCK THE TABLE, SEVERE EQUIPMENT DAMAGE CAN OCCUR. IF IT APPEARS TO TAKE AN EXCESSIVE AMOUNT OF FORCE TO PRESS THE DOCK PEDAL, DO NOT FORCE IT; LOOSEN THE DOCK HOOK FIRST.

10.6 Perform dock hook adjustment procedures as per installation manual [section 4](#).

11. TABLE UP LIMIT CABLE

- 11.1 Undock patient table, and move it from exam room.
- 11.2 Move bellows to service position refer to [section 3-1](#).
- 11.3 Raise table to maximum height.
- 11.4 Remove cotter pin and, retaining pin securing bottom end of cable to bell crank, (see Illustration 41).



REMOVAL OF COTTER PIN - UPSENSOR CABLE

ILLUSTRATION 41

- 11.5 Remove clamp-securing cable from bracket by removing retaining ring, and the Up sensor pin from the tygon tube, loosen nut and rotate to remove cable from top end (See Illustration 42).
- 11.6 Remove the cable from the U-Bracket refer Illustration 42A, and then remove the cable from bell crank lever by removing the cotter pin.



REMOVAL OF CABLE FROM UPSENSOR BRACKET
ILLUSTRATION 42



REMOVAL OF CABLE FROM U- BRACKET
ILLUSTRATION 42 A

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- 11.7 Install new cable and attach to Up Limit pin, (refer Illustration 42 and Illustration 43).
- 11.8 Fasten other end of cable to bell crank, and secure retaining pin with cotter pin (see Illustration 41).
- 11.9 Route the cable through the u- bracket as shown in Illustration 41.
- 11.10 Adjust table Up Limit cable to remove any slackness when hydraulic cylinder is fully extended. Refer Illustration 44.



SETTING OF CABLE IN UPSENSOR BRACKET

ILLUSTRATION 43

- 11.11 Check for proper operation of Up Limit switch when table is docked.
- 11.12 Move the bellows to lower condition refer section 3-2.

NOTE: IF TABLE HEIGHT ADJUSTMENT IS REQUIRED PLEASE REFER TO SECTION 6 (TABLE HEIGHT ADJUSTMENT OF INSTALLATION MANUAL).



REMOVING SLACKNESS IN UP LIMIT CABLE

ILLUSTRATION 44

12. SECONDARY CRADLE LATCH ACTUATING CABLE

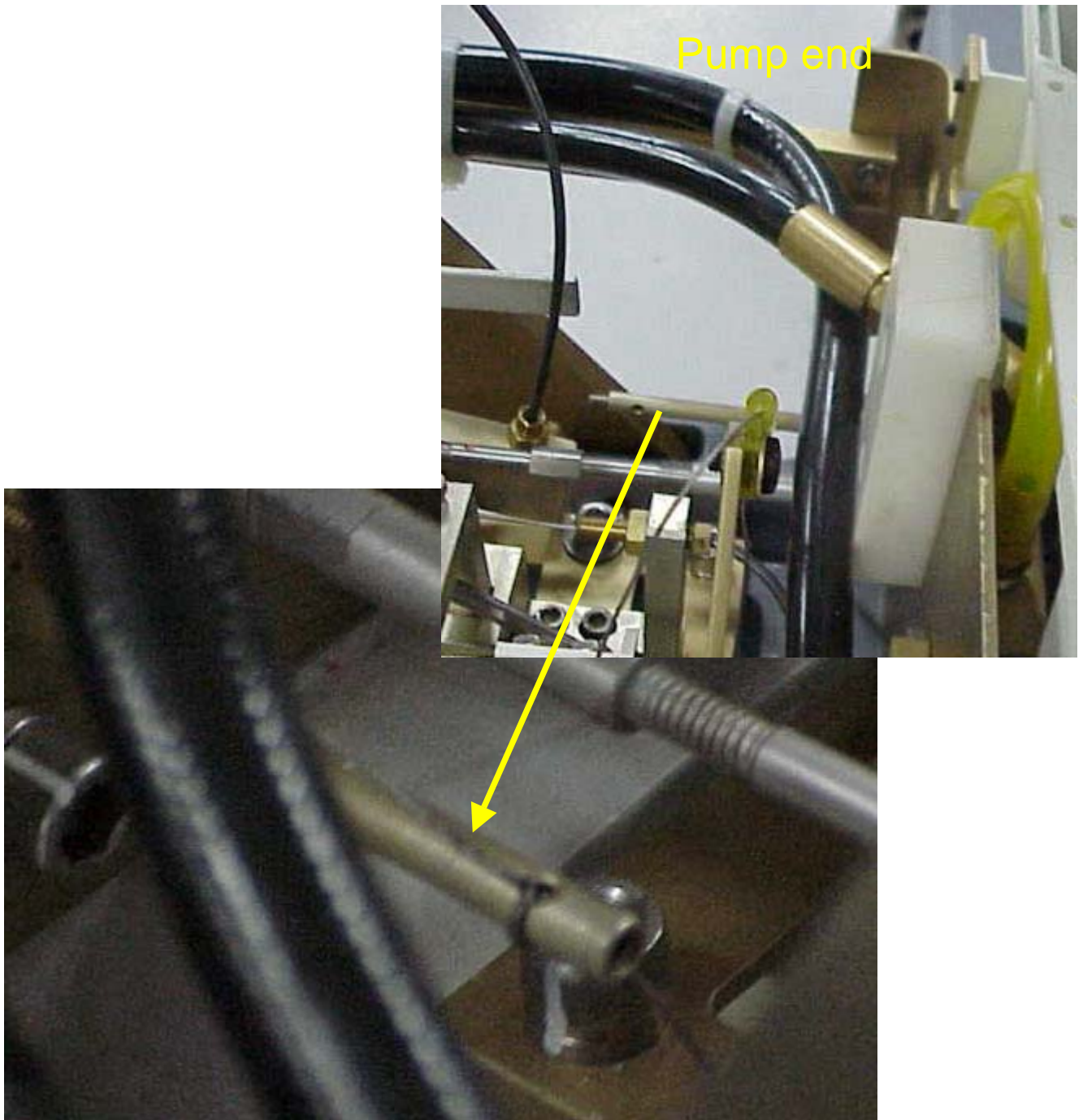
- 12.1 Undock patient table, and move out of MR room.
- 12.2 Move bellows to service position refer to [section 3-1](#).
- 12.3 Remove cradle see [section 4](#).
- 12.4 Unfasten cable end from end of push rod, by removing grub screw
(See Illustration 45).



SECONDARY CRADLE LATCH ACTUATING CABLE

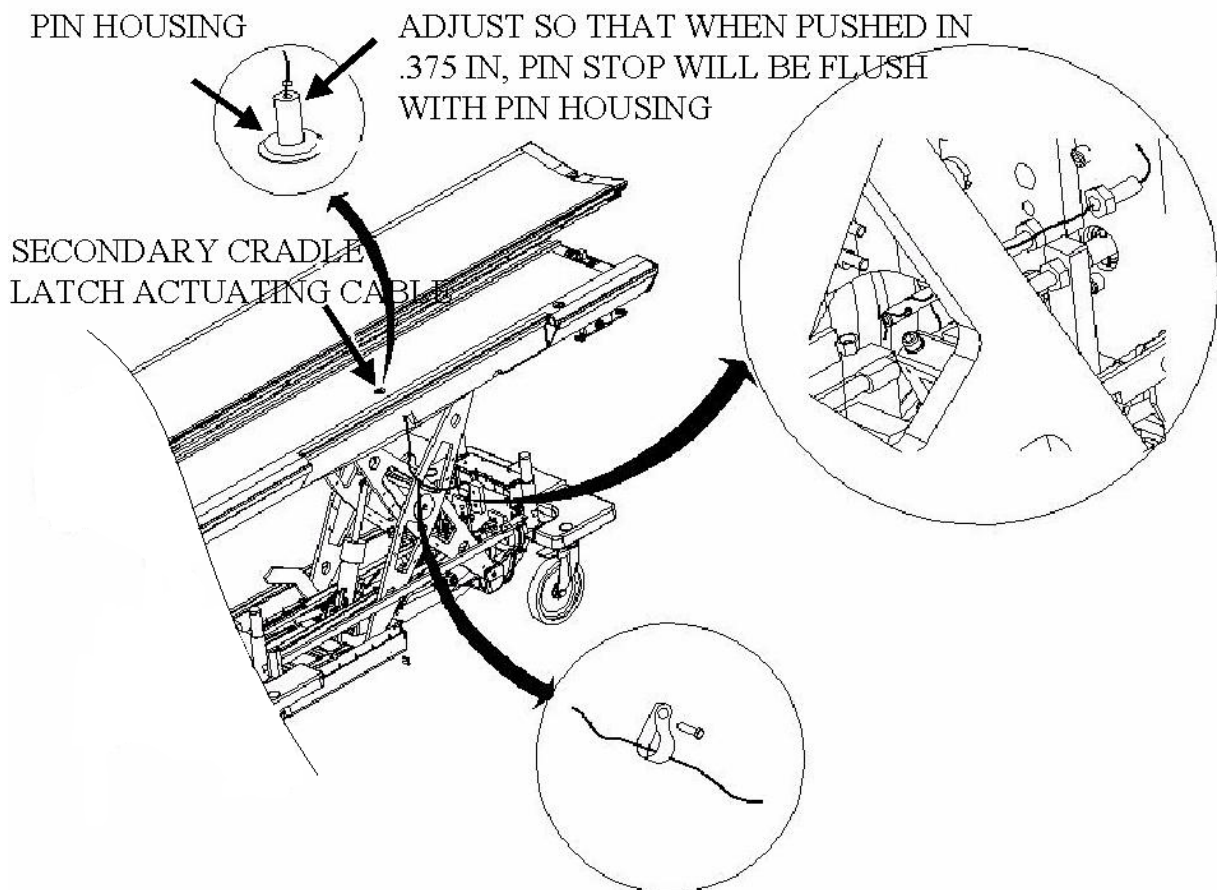
ILLUSTRATION 45

- 12.5 Pull cable out of pin housing (see Illustration 46).
- 12.6 Insert new cable through cable casing (see Illustration 46).

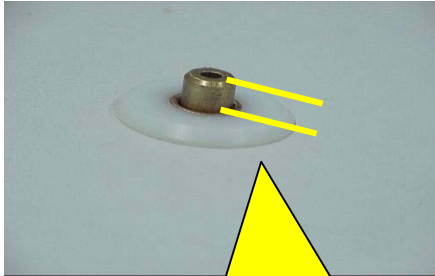


**SECONDARY CRADLE LATCH ACTUATING CABLE
ILLUSTRATION 46**

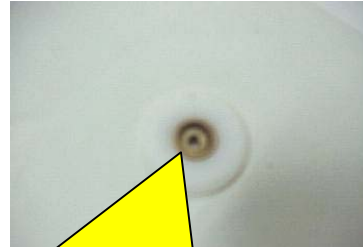
- 12.7 Route cable through cable casing (see Illustration 47).
- 12.8 Loop cable twice through hole in push rod and secure with set screw. Tighten Securely to prevent cable from slipping (see Illustration 46).
- 12.9 Adjust cable so that when push rod is pushed in 3/8 inch (9.5 mm); pin stop is Flush with pin housing. Use threaded cable adjuster for fine adjustment. Tighten Lock nut after adjustment is complete, then cut off excess length of cable (see Illustration 47).



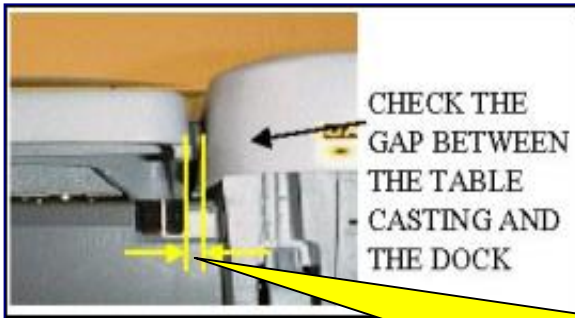
**SECONDARY CRADLE LATCH CABLE ROUTING
ILLUSTRATION 47**



The height of Cradle pin should be **4.7+/-0.25 mm** in **UNDOCKED** condition



The depth should be at least **3.0 mm** below brass top surface in **DOCKED** condition



NOTE: The Cradle pin height depends on the gap between Dock assembly and Table. Ensure that the gap is about 3mm.

ILLUSTRATION 47 A

12.10 Return patient table to scan room.

12.11 Dock patient table.

12.12 Verify that release pin is flush to 3mm below flush when table is docked.

Refer Illustration 47 A.

12.13 Replace cradle and bellows to normal condition refer to [section 4](#) and [section 3-2](#).

13. CRADLE INTERLOCK CABLE



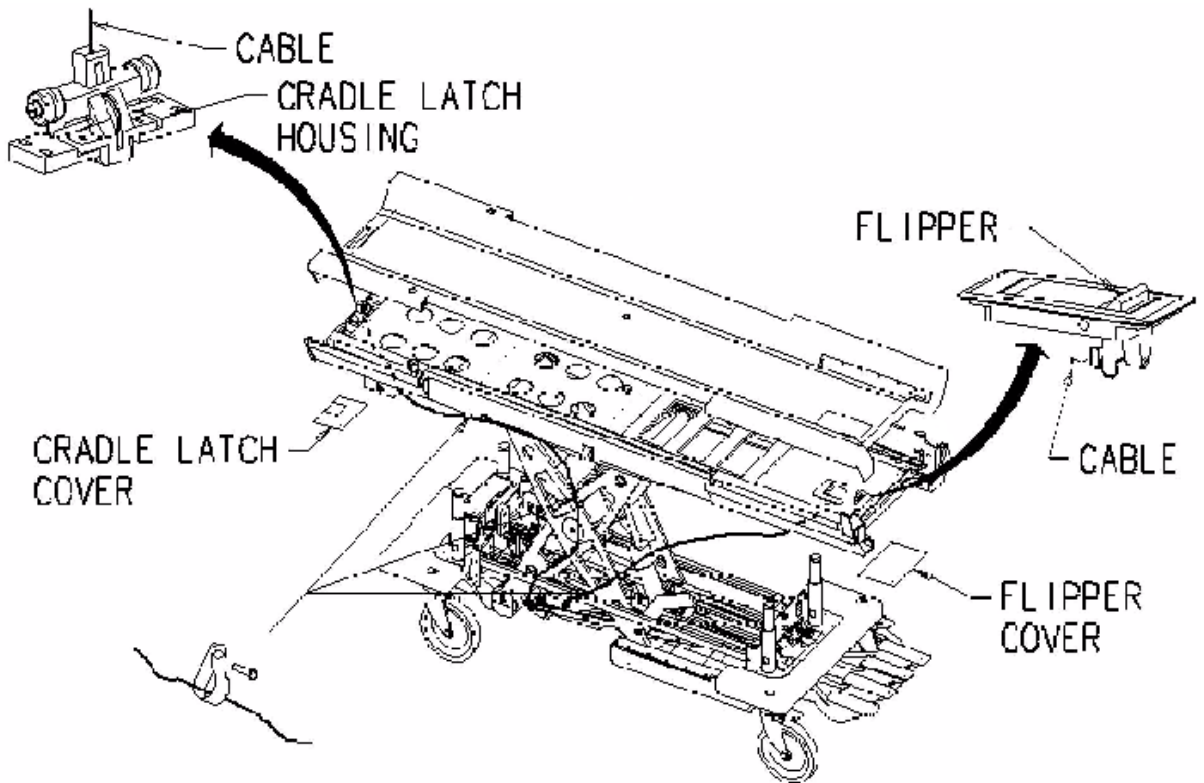
NOTE: THE CABLE USED HERE IS MAGNETIC PLEASE DO THE SERVICING, OUT OF THE MAGNET ROOM AND ALSO ATTACH THE WARNING LABEL ON TO THE CABLE CASING FOR FUTURE SERVICE INFORMATION.



CAUTION:

**Section 13.1 to 13.11 is applicable for tables prior to execution of FMI - 60719J
Refer Section 13.12 For Table Serial starting from HDe Table Serial no: 20521WH1
& Signalite Serial No: 20477WH6 and after execution of FMI - 60719J**

- 13.1 Undock patient table, and move it out of exam room.
- 13.2 Move bellows to service position refer to [section 3-1](#) .
- 13.3 Remove small cover below flipper assembly see Illustration 48.



**INTERLOCK CABLE AND MAIN CRADLE LATCH CABLE ROUTING
ILLUSTRATION 48**

- 13.4** Remove cradle (see section 4) .
- 13.5** Loosen setscrew at interlock lever, see Illustration 49. Unfasten cable End from interlock lever.
- 13.6** Pull cable out of pin stop on flipper bar, adjustment screw see Illustration 48.
- 13.7** Insert new cable through the adjustment screw, so that swaged end fits into hole in the adjustment screw see Illustration 48A.

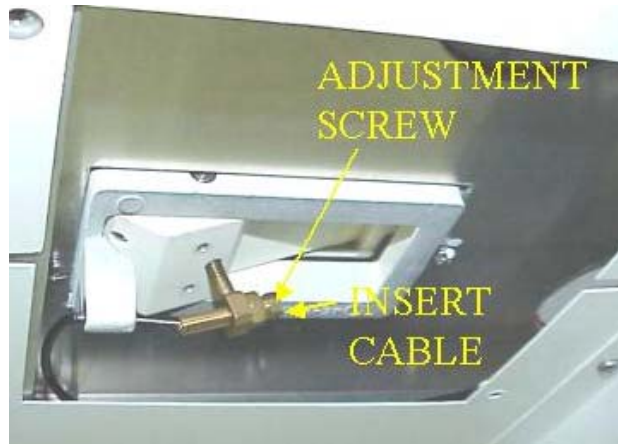
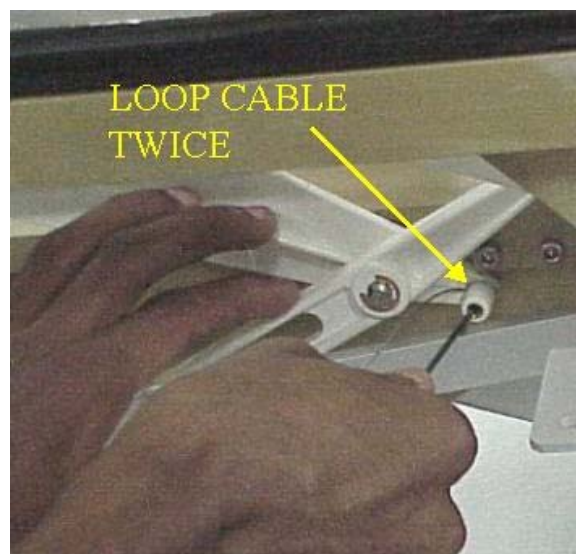


ILLUSTRATION 48A

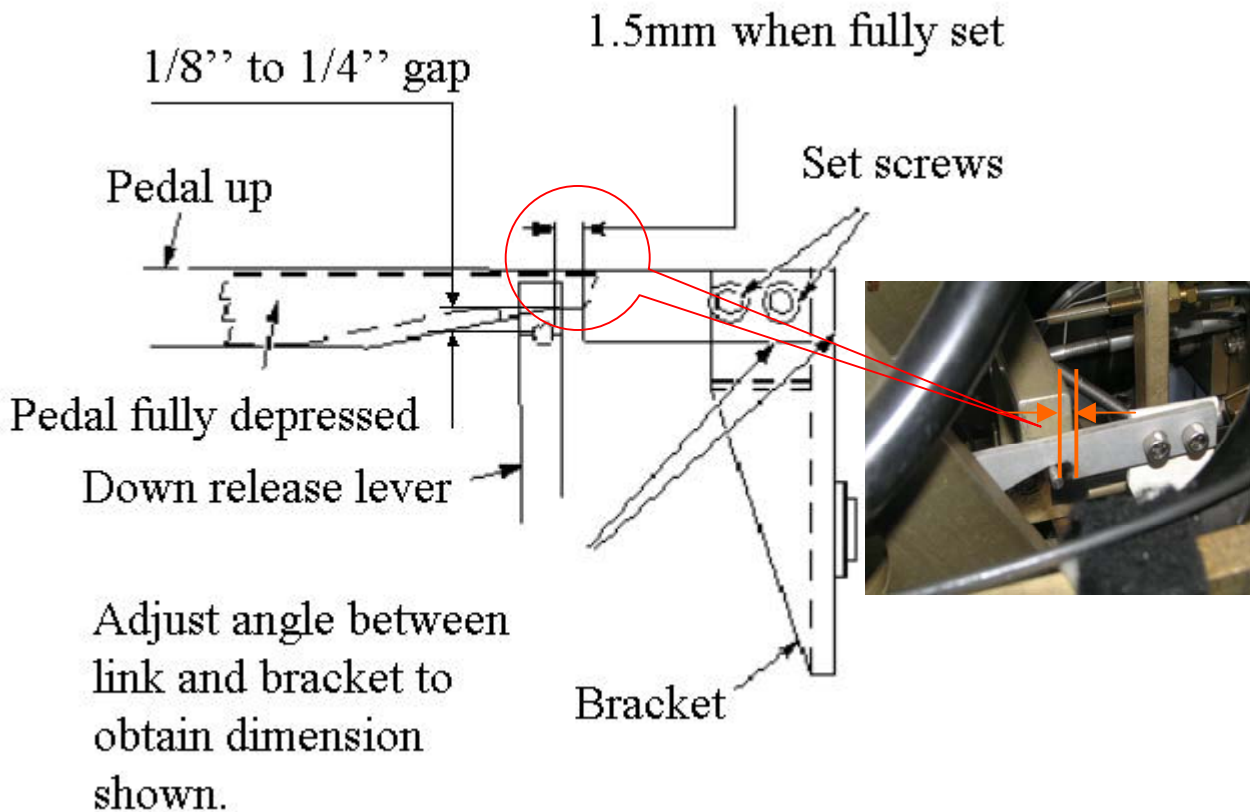
- 13.8** Route cable through cable casing and insert through hole in interlock lever.
- 13.9** Loop cables twice through hole in interlock lever, secure with setscrew. Tighten securely to prevent cable from slipping, see Illustration 49.



INTERLOCK LEVER

ILLUSTRATION 49

13.10 Adjust for indicated gap in down valve linkage, when cradle is not in position (See Illustration 50). Use threaded cable adjuster for fine adjustments. Tighten lock nut after adjustment is completed, then cut off excess length of cable.



DOWN VALVE LINKAGE ADJUSTMENT

ILLUSTRATION 50

13.11 Replace cradle and bellows to normal working condition; refer to [section 4](#) and [Section 3-2](#).

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13.12 FLIPPER DOCK /UNDOCK CABLE REPLACEMENT:

NOTE:

Refer Section 13.12 For Table Serial starting from HDe Table Serial no: 20521WH1 & Signalite Serial No: 20477WH6 and after execution of FMI - 60719J

NEW PARTS LIST:

- i. 5146521-3 New cable sleeve with end cap-SignaLite table - 58 Inch length.
- ii. 5136159 New Adjustor block (Cradle Pin)



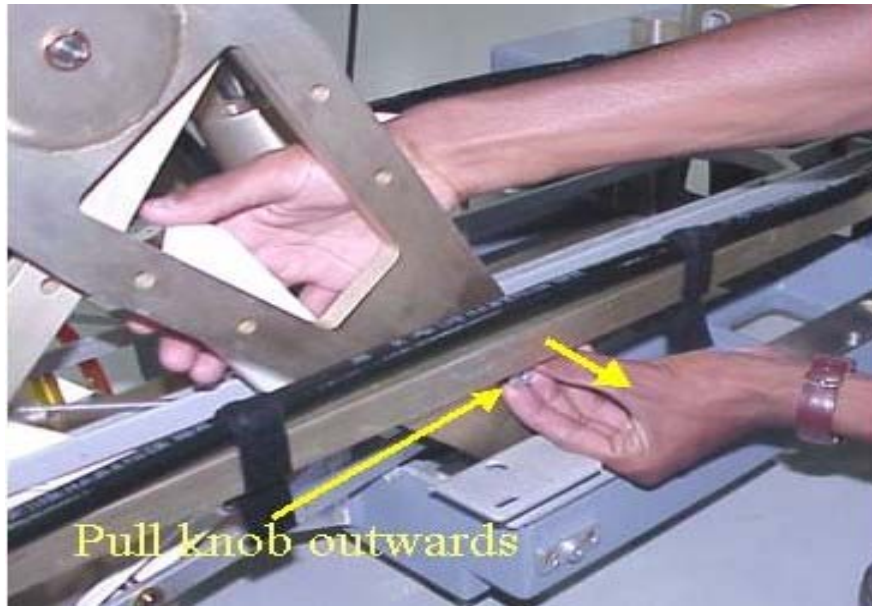
1. INTIAL PREPERATION

1.1 Move bellows to service position refer to [section 3-1](#).



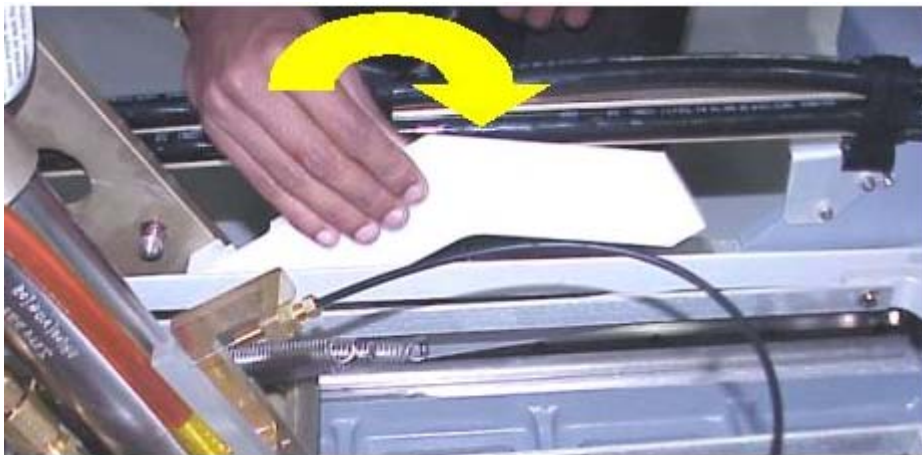
1.2 Engage the safety latch bar, Refer steps below for procedure of engaging the safety latch bar.

1.3 Unhook Safety latch bar by pulling the lock pin knob outward, (Refer Illustration 1-1), and engage it towards the casting, then lower table by Pressing the down pedal until lock bar fully supports tabletop. (Refer Illustration 1-2 & 1-3).



UNLOCKING SAFETY LATCH BAR

ILLUSTRATION 1-1



ENGAGING SAFETY LATCH BAR

ILLUSTRATION 1-2



ENGAGING SAFETY LATCH BAR

ILLUSTRATION 1-3

2. REMOVAL OF FLIPPER DOCK/UNDOCK RELEASE CABLE ASSEMBLY

2.1 Unscrew the grub screw and remove the inner wire by using nose player on the dock/undock cable on the dock lever side Illustrations 2-1 and 2-2.

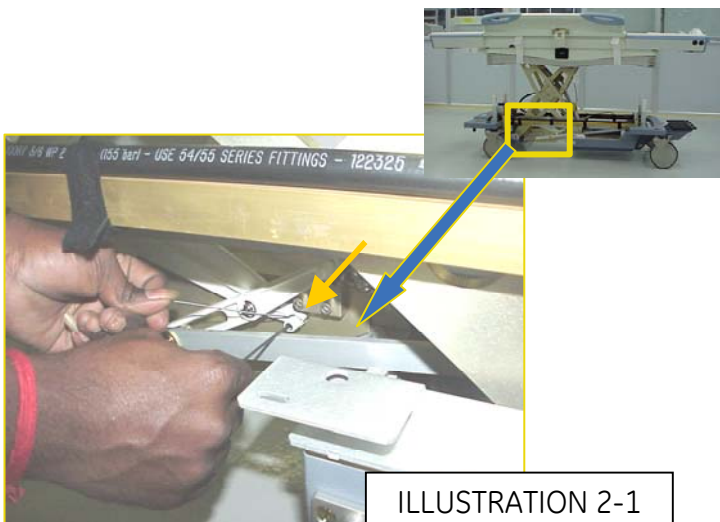
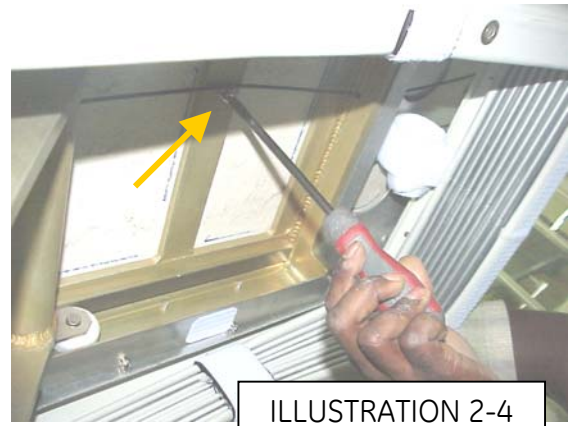
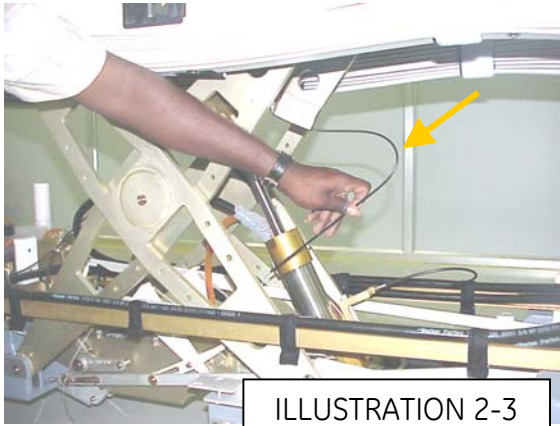


ILLUSTRATION 2-1

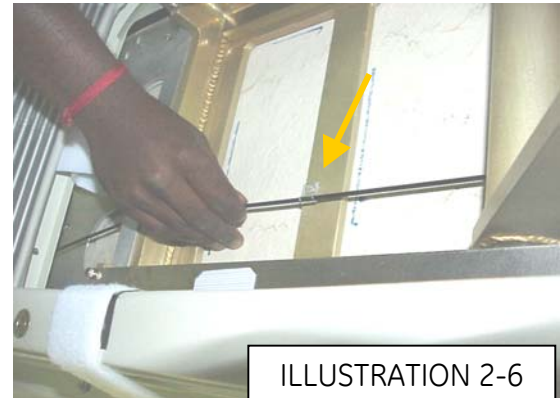
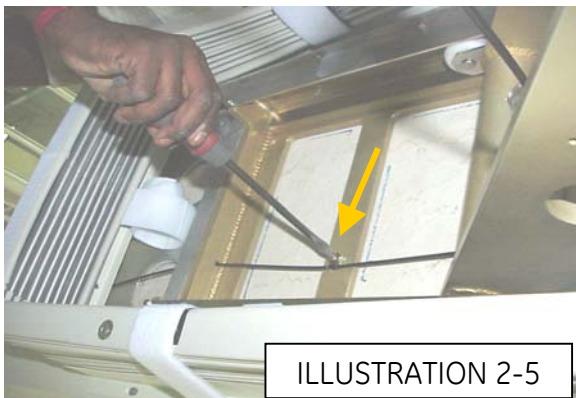


ILLUSTRATION 2-2

2.3 Then, remove the outer sleeve along with wire as per ILLUSTRATION 2-3 and remove the screw by using screw driver as per ILLUSTRATION 2-4



2.4 Loosen screw and remove the cable clamp as per ILLUSTRATION 2-5 and 2-6.



2.5 Push the inner cable wire by hand as per ILLUSTRATION 2-7 and 2-8 and Then, pull the cable wire by nose player as per ILLUSTRATION 2-9 and 2-10



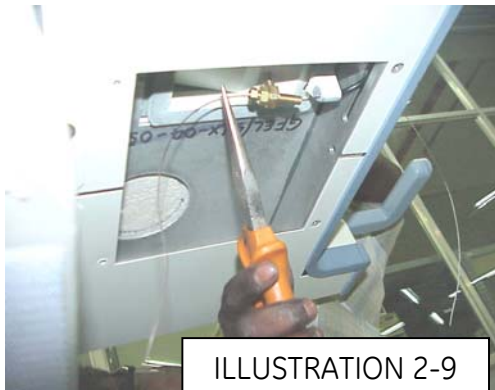


ILLUSTRATION 2-9



ILLUSTRATION 2-10

2.6 After then, remove the cable sleeve by nose player and ensure that cable sleeve is fully removed from the table as per ILLUSTRATION 2-11 and 2-12.

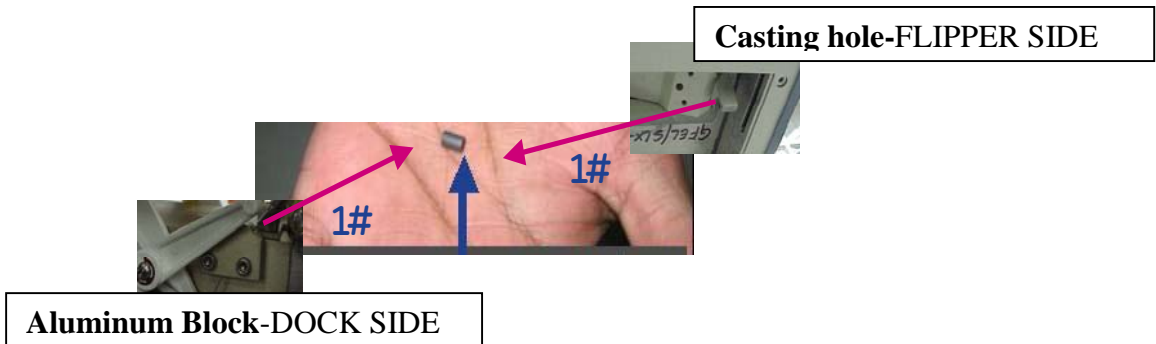


ILLUSTRATION 2-11



ILLUSTRATION 2-12

3 REMOVAL OF PLASTIC PART FROM DOCK SIDE ALUMINUM BLOCK and CRADLE FLIPPER SIDE CASTING HOLE POCKET.



Aluminum Block-DOCK SIDE

Casting hole-FLIPPER SIDE

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4 INSTALL NEW CABLE ASSEMBLY.

4.1 Install the Magnetic Material warning label on the new cable assembly as shown in ILLUSTRATION 4-1.

4.2 Remove inner wire from the New cable assembly as shown in ILLUSTRATION 4-2.



ILLUSTRATION 4-1



ILLUSTRATION 4-2

5 CRADLE POSITION DURING DOCK/UNDOCK CABLE SETTING

5.1 Push the push rod and front latch to ensure, cradle is released from latch and pull the cradle from table and stop the cradle by at least 100 mm away from tabletop front. This is to ensure cradle is away from flipper actuation. ILLUSTRATION 5-1, 5-2 and 5-3



ILLUSTRATION 5-1



ILLUSTRATION 5-2



ILLUSTRATION 5-3

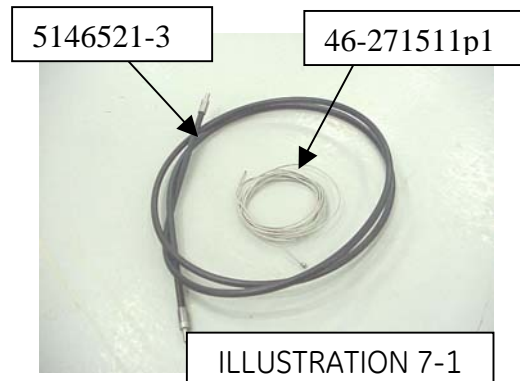
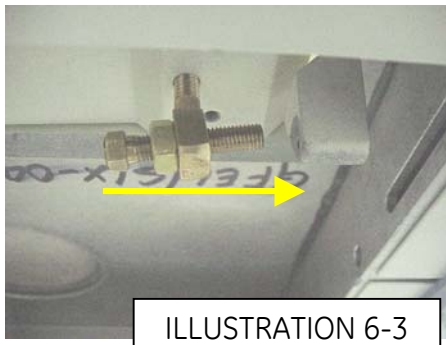
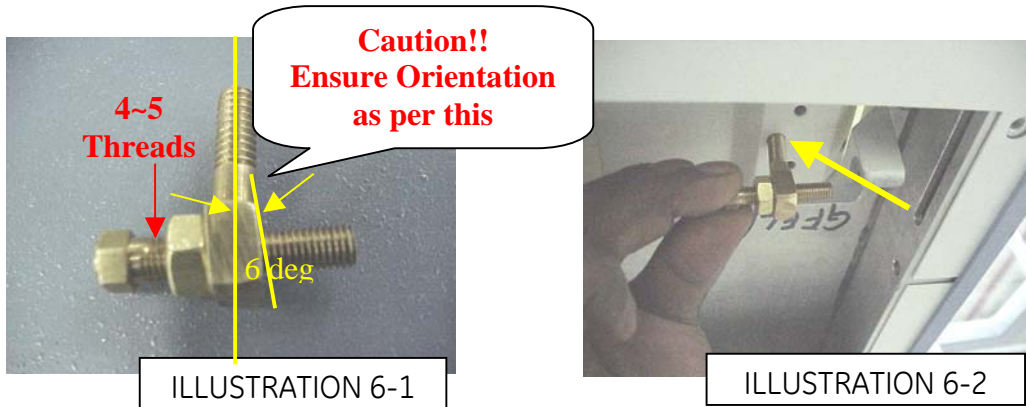
CAUTION !!!
Ensure the cradle is away from flipper actuation / home

6. NEW ADJUSTOR BLOCK ASSEMBLY WITH ADJUSTOR SCREW AND NUT

6.1 Assemble the New adjustor block (with 6 deg angle) with adjustor screw by leaving at least 4~5 thread on the head side of adjustment screw after the nut.

Caution: Ensure that 6 deg angle is oriented as per ILLUSTRATION 6-1

6.2 Then mount the assembled new adjustor block by orienting the position as per ILLUSTRATION 6-2 and rotate 5 time full clock wise rotation and then positioned as per ILLUSTRATION 6-3



7 NEW CABLE ASSEMBLY ON DOCK/UNDOCK FUNCTION: WITH OUT LOOP (NEW ROUTING)

7.1 Ensure the new cable sleeve p/n 5146521-3 with 58 inch length (end cap step to step) and inner cable wire p/n 46-271511p1 as per ILLUSTRATION 7-1

7.2 Insert the inner wire onto the casting hole as shown ILLUSTRATION 7-2 and 7-3 then ensure to hold the cable wire in its position.

7.3 Take further as per the ILLUSTRATIONS from 7-4 to 7-21 to complete the routing.

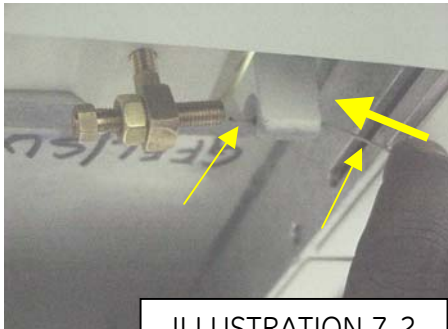


ILLUSTRATION 7-2

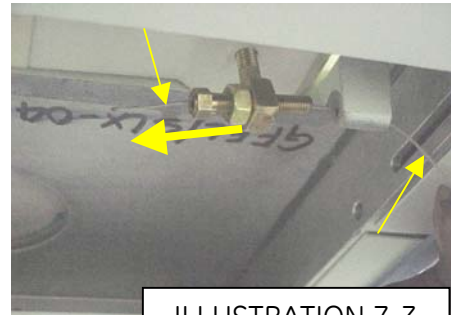


ILLUSTRATION 7-3

7.3 Insert the inner wire onto the casting hole as shown ILLUSTRATION 7-2 and 7-3

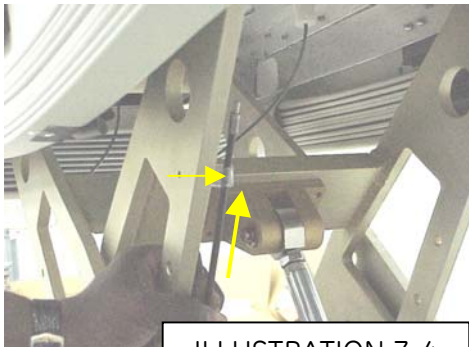


ILLUSTRATION 7-4



ILLUSTRATION 7-5



ILLUSTRATION 7-6



ILLUSTRATION 7-7

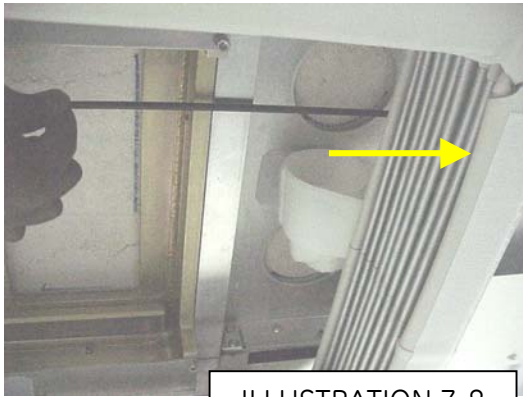


ILLUSTRATION 7-8

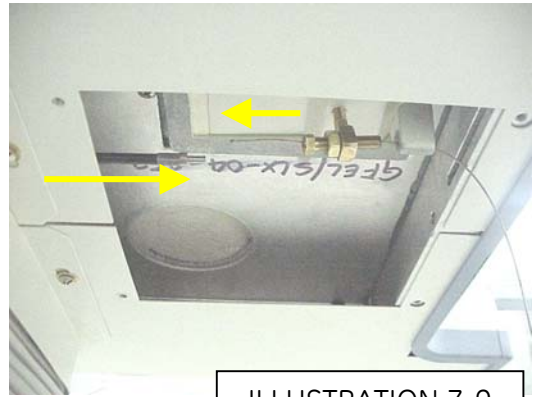


ILLUSTRATION 7-9



ILLUSTRATION 7-10



ILLUSTRATION 7-11

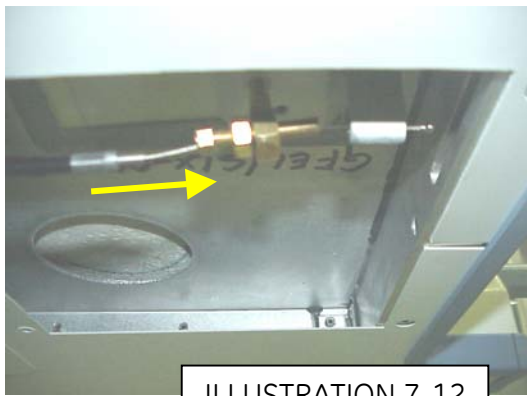


ILLUSTRATION 7-12



ILLUSTRATION 7-13

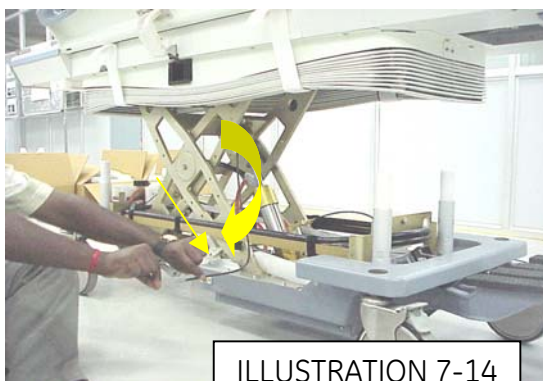


ILLUSTRATION 7-14

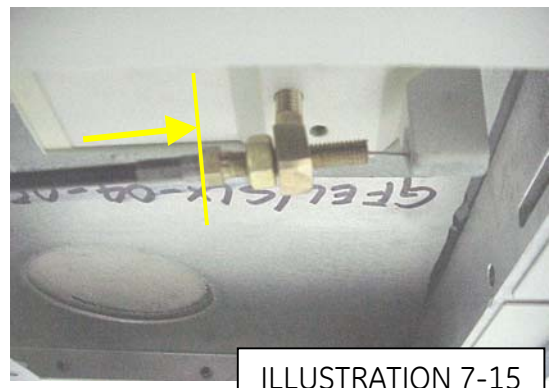
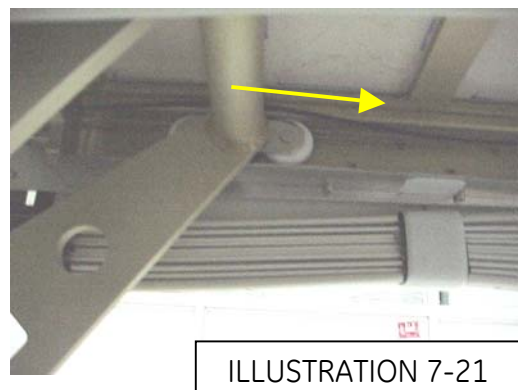
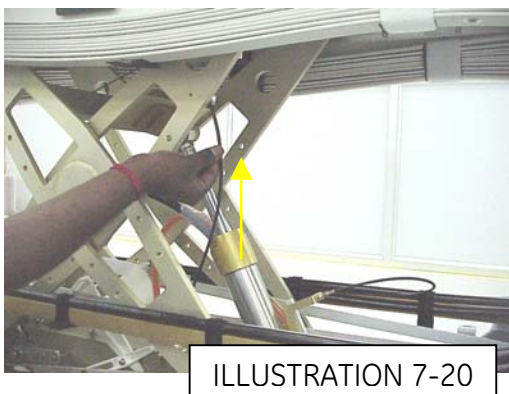
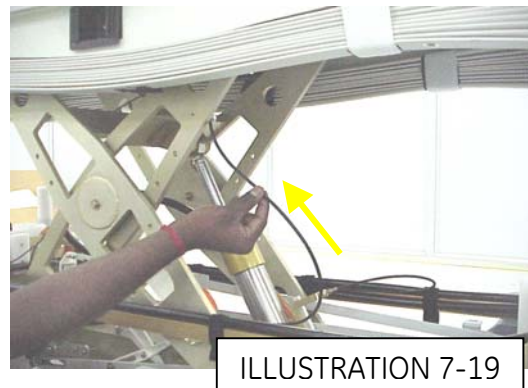
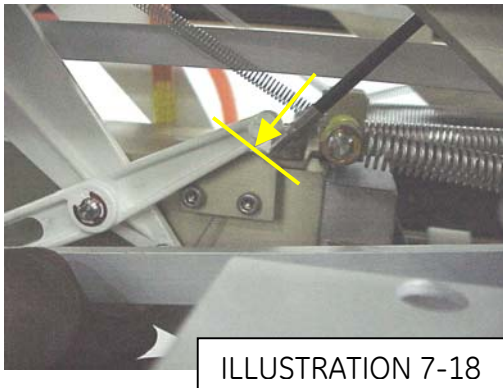
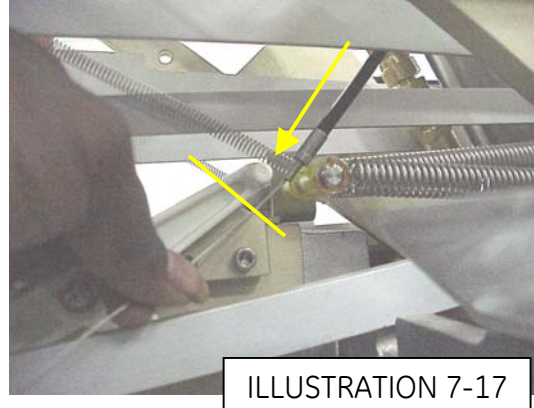
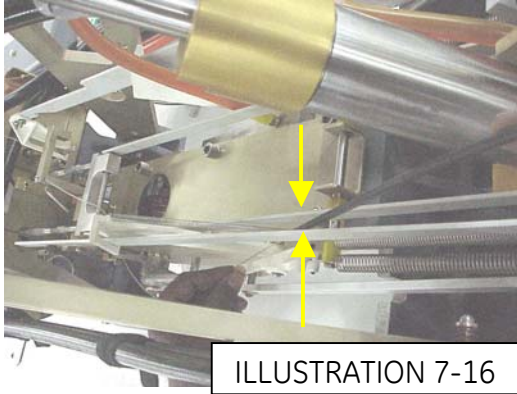


ILLUSTRATION 7-15



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8. New Cable assembly INNER WIRE SETTING at undock lever as shown in ILLUSTRATION.

8.1 Insert the wire onto the plastic lever bottom as per ILLUSTRATION 8-1 and again pass through the hole from bottom to get double knot mounting ILLUSTRATION 8-2

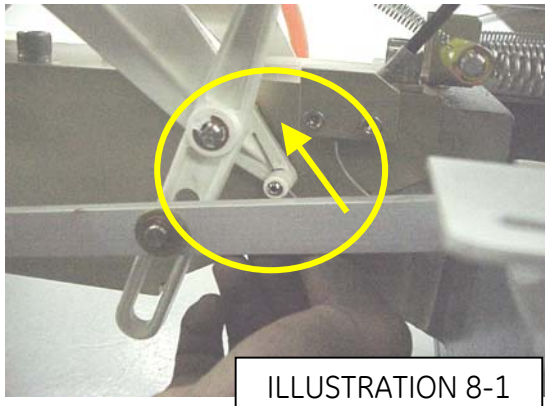


ILLUSTRATION 8-1

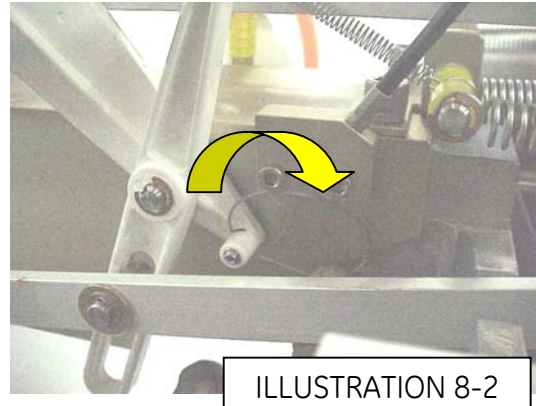


ILLUSTRATION 8-2

8.2 Press the dock pedal as ILLUSTRATION 8-4 (or) and use the allen key to tighten the screw. Ensure the grub screw is NOT fully tightened and leave some gap for fine-tuning the setting to leave gap between the down release lever on the other side and cylinder pin.

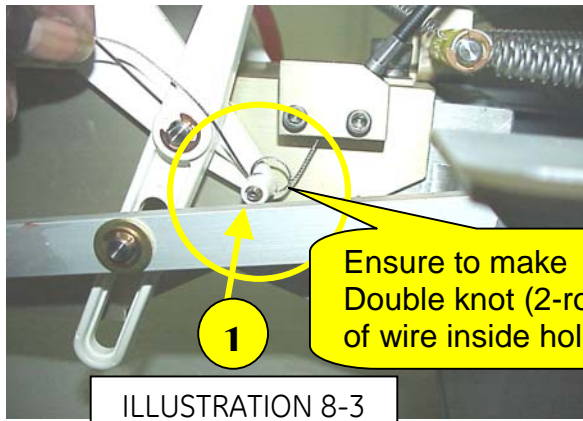


ILLUSTRATION 8-3

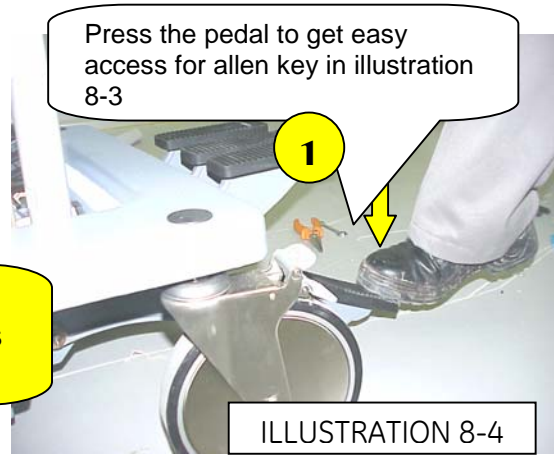


ILLUSTRATION 8-4

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8.3 Tighten the Grub screw as per ILLUSTRATION 8-5 and ILLUSTRATION 8-6 by keeping the GAP to 20~22 MM between the down lever bottom and cylinder pin as per ILLUSTRATION 8-7 and ILLUSTRATION 8-8 below.

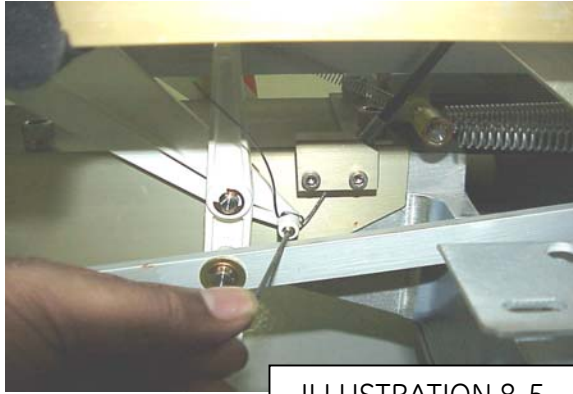


ILLUSTRATION 8-5

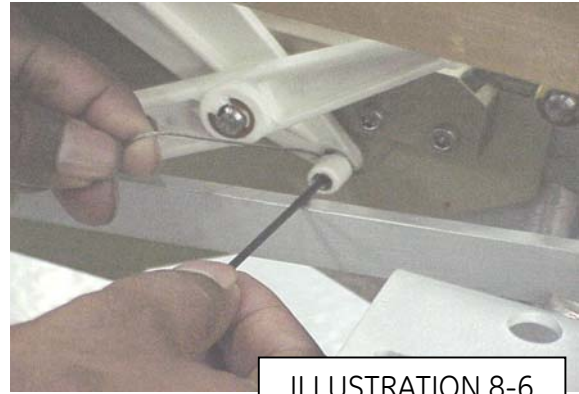


ILLUSTRATION 8-6

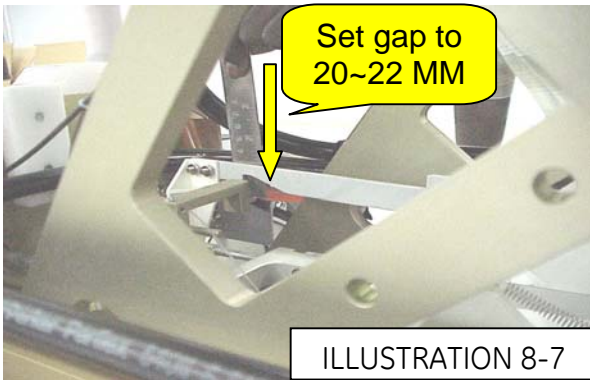
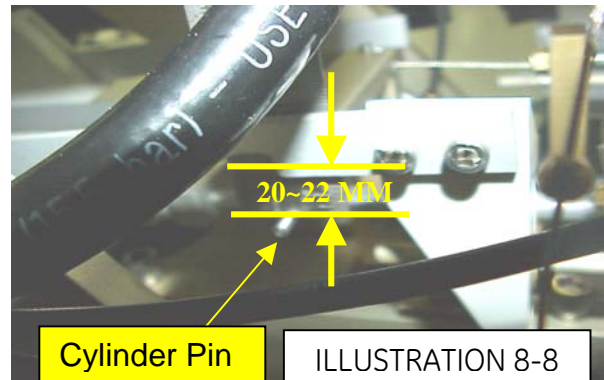


ILLUSTRATION 8-7



Cylinder Pin

ILLUSTRATION 8-8

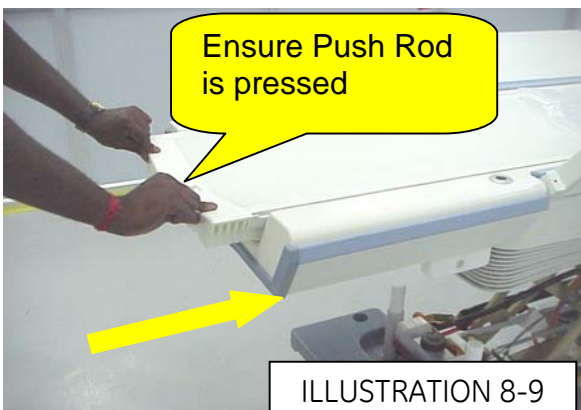


ILLUSTRATION 8-9

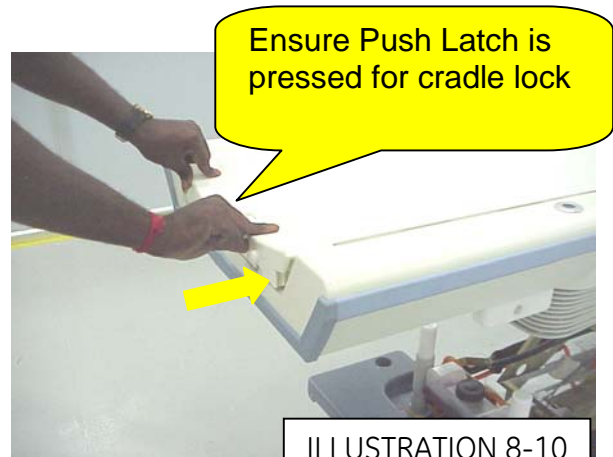


ILLUSTRATION 8-10

8.4 Push the CRADLE-IN after the pressing the push rod as shown in ILLUSTRATION 8-9 and ILLUSTRATION 8-10 above.

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9. NEW CABLE ASSEMBLY –NEW ROUTING SETTING FINAL CHECK:

- 9.1 Ensure that cable sleeve end cap collar is butt against the adjustable screw head face and the inner wire does not have slackness as per ILLUSTRATION 9-1
- 9.2 Inner wire is well positioned by grub screw and ensured that wire is not slip away during the function.
- 9.3 Ensure the excess left over inner wire is winded and is to be left freely as per ILLUSTRATION 9-2
- 9.4 Move the cradle away as per note 5.1 mentioned above and Cradle-In as per note 8.1. Measure the gap to 20~22 mm consistently at least for three times. If the value is consistent the setting is OK. If not, it may need for readjustment as per note 8.3 said above.



ILLUSTRATION 9-1

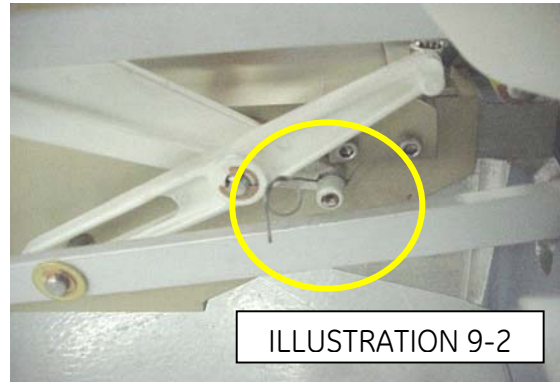


ILLUSTRATION 9-2

10. FUNCTIONAL CHECKS AND RELEASE OF SAFETY LEVER.

- 10.1 Check for normal functioning of the table from “Pedal side” as well as from “Dock side”, by pumping up the table slightly and then activating the down pedal, next disengage the safety latch bar follow the below steps.
- 10.2 Pull the safety latch bar away from the supporting rib of the casting, slide it back to it initial position until it locks back in the spring lock provided as shown in ILLUSTRATION 10-1.

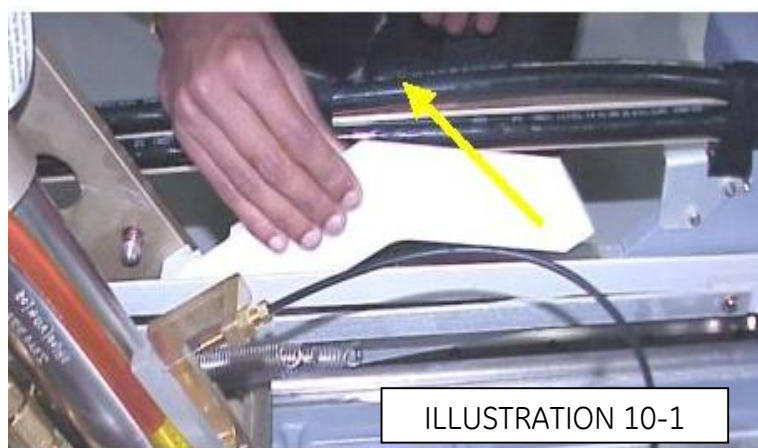
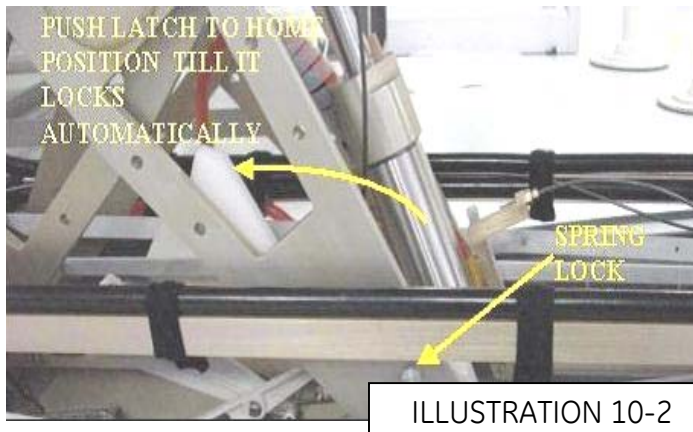
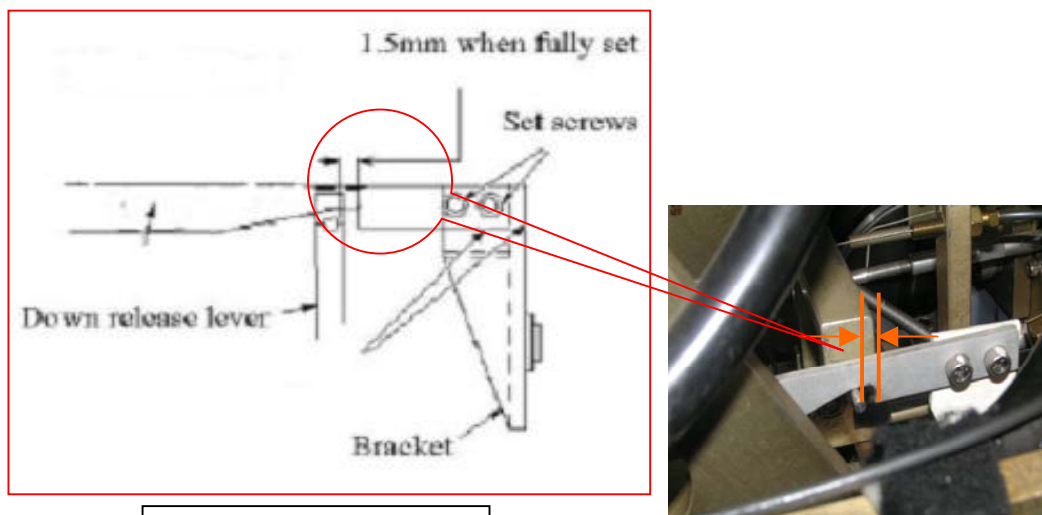


ILLUSTRATION 10-1

10.3 Ensure that the latch bar is firmly locked in its rest position as shown in ILLUSTRATION 10-2



Note: Check for proper routing of cable and ensure that there are no kinks in the Cable. Also check if the plastic bracket shown in ILLUSTRATION 8-3 is held firmly and is not loose. And also check for the 1.5mm gap if required set the gap using the setscrews.

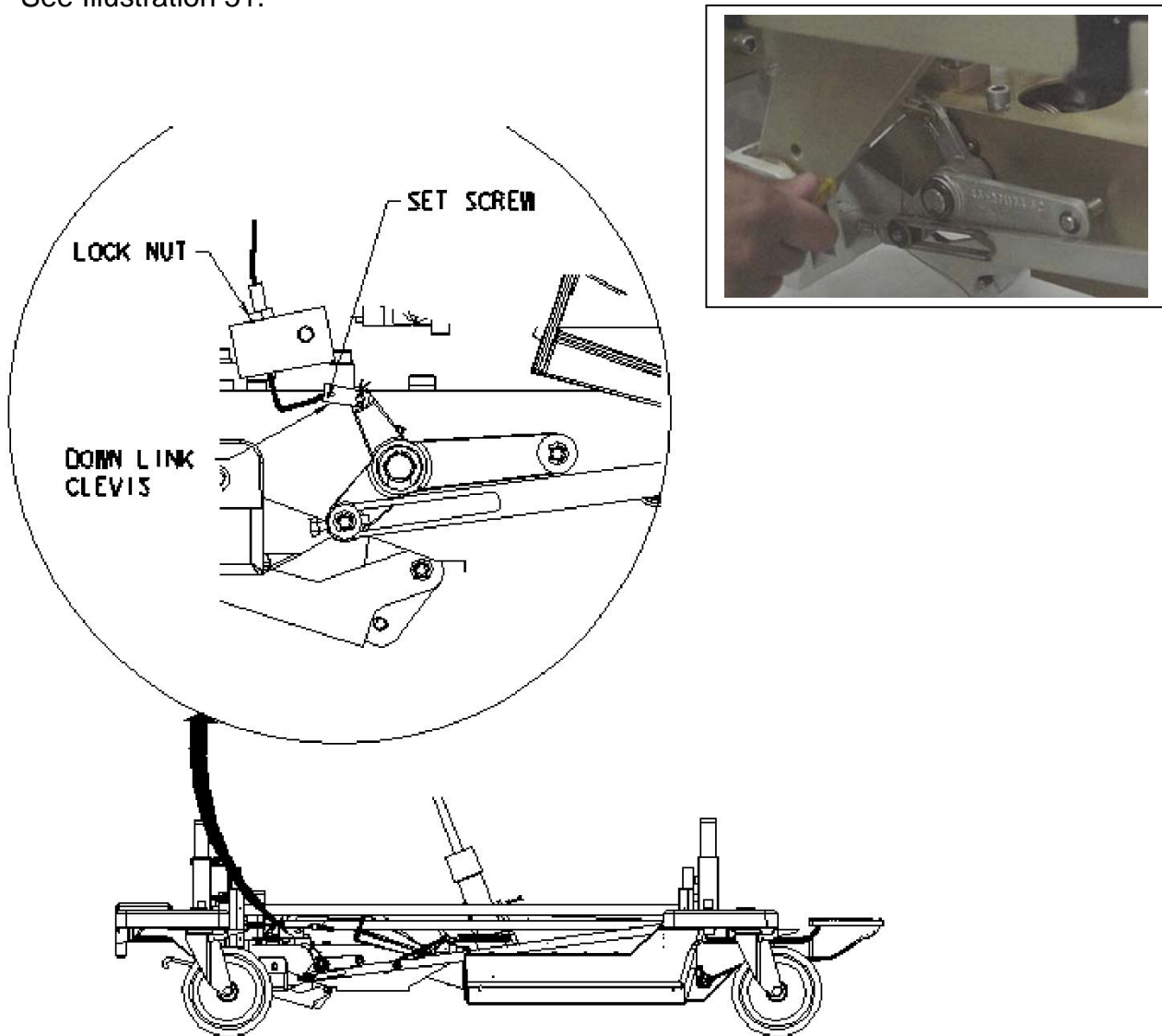


11. FINAL STEP

- 11.1 Move down the bellows as per [Section 3-2](#)
- 11.2 **Return Table to MR room**

14. PRIMARY CRADLE LATCH CABLE

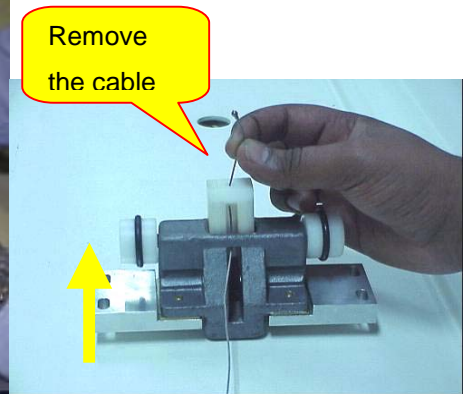
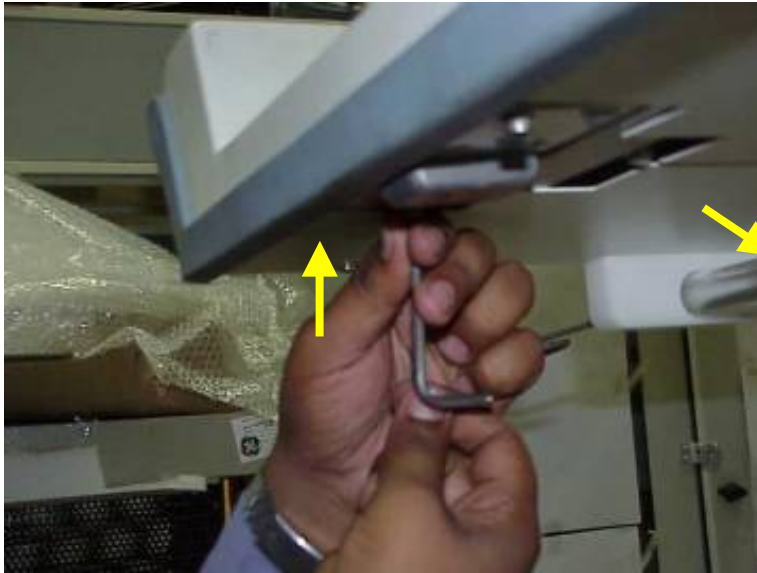
- 14.1 Undock patient table, and move it out of MR room.
- 14.2 Move bellows to service position, refer to [section 3-1](#).
- 14.3 Remove cradle, refer to [section 4](#).
- 14.4 Unfasten cable end from down link clevis by removing set screw,
See Illustration 51.



LOOSENING SET SCREW ON DOWN LINK CLEVIS

ILLUSTRATION 51

14.5 Remove four bolts securing cradle latch housing and cradle latch cover, see Illustration 52.



REMOVE CRADLE LATCH.

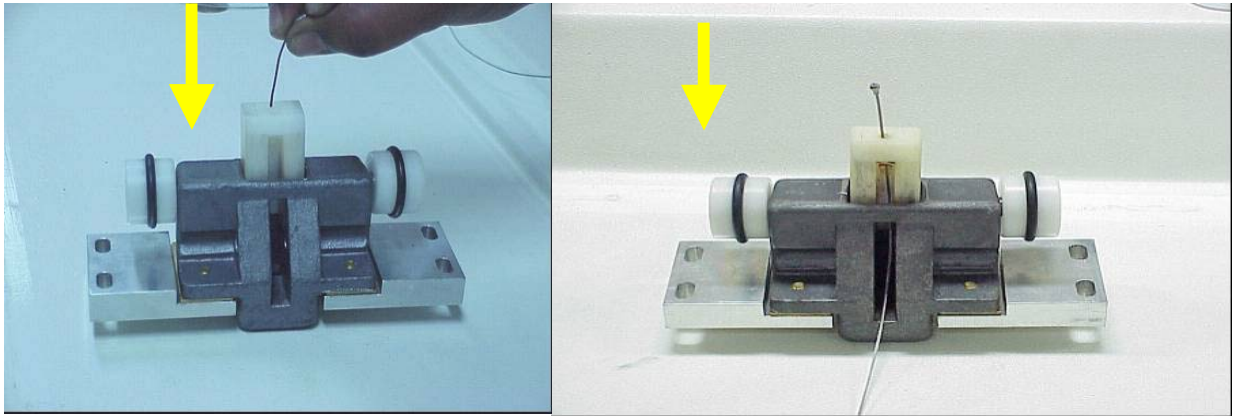
ILLUSTRATION 52

14.6 Pull cable out of latch pin on front of patient table, see Illustration 52.

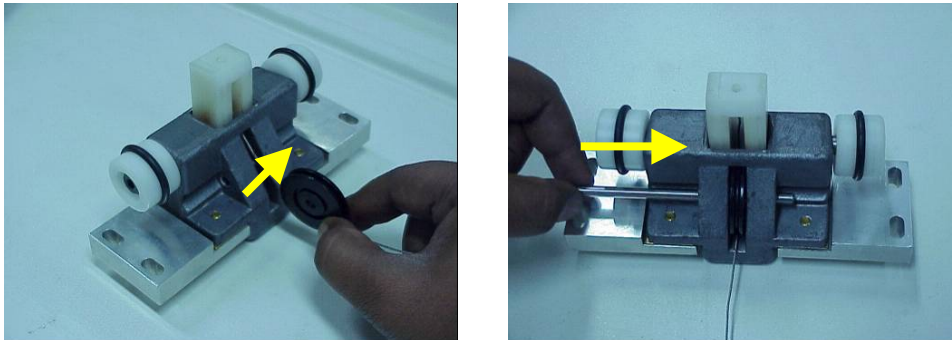
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14.7 Insert new cable through head of latch pin so that swaged end fits into hole in Latch pin. See Illustration 53 for details on installing cable.



Insert the new inner cable as shown.

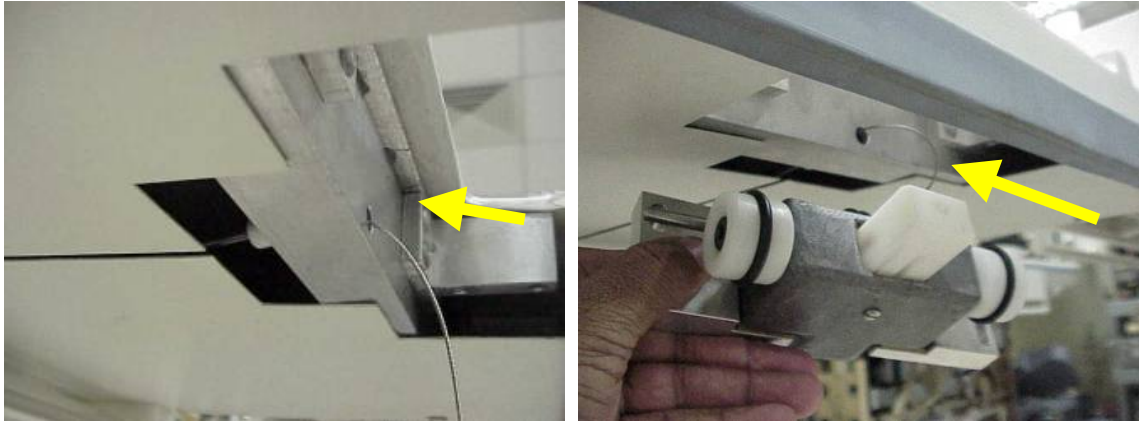


Ensure that the wire is positioned to the wheel and align the rod so that it pass through the centre of wheel

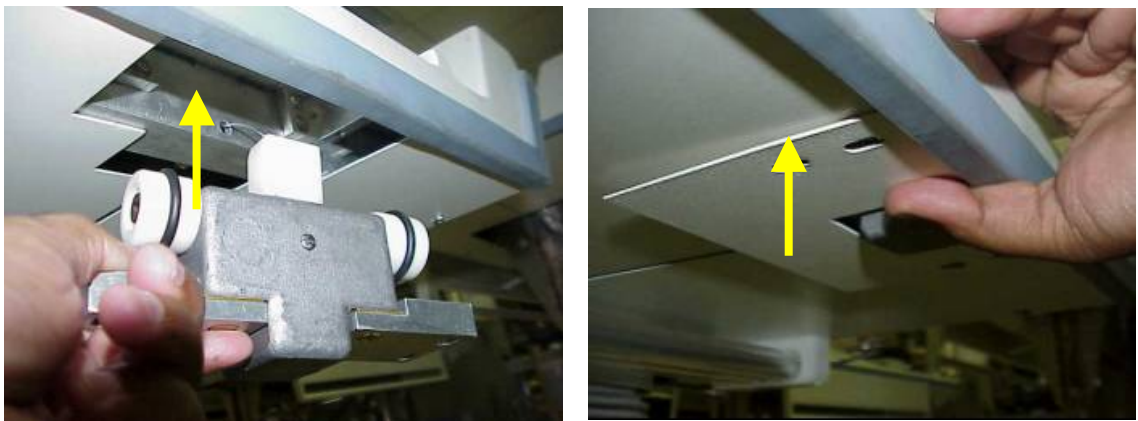
UNFASTENING CABLE END FROM DOWN LINK

ILLUSTRATION 53

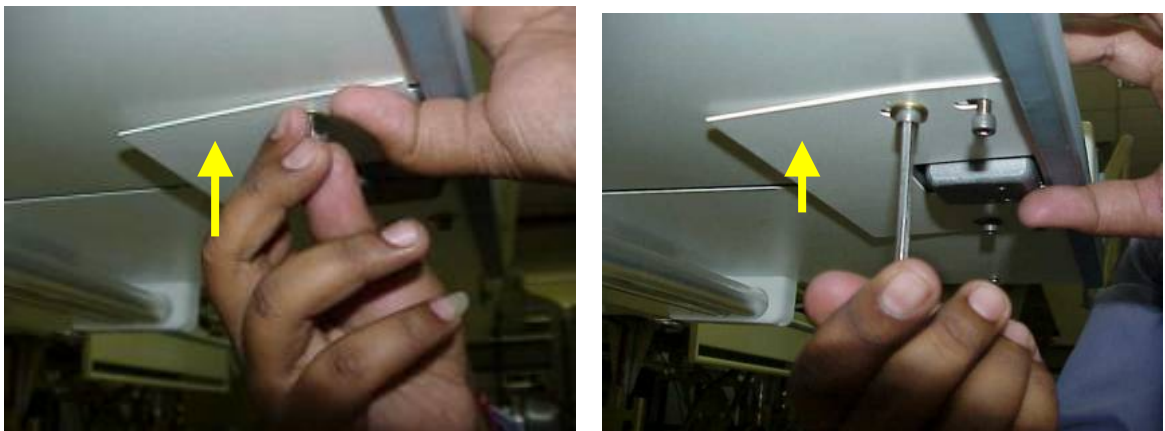
14.8 Route cable through cable casing and assemble the latch plate back, see Illustration 53 A.



Insert the inner wire as shown in the hole of tabletop handle side



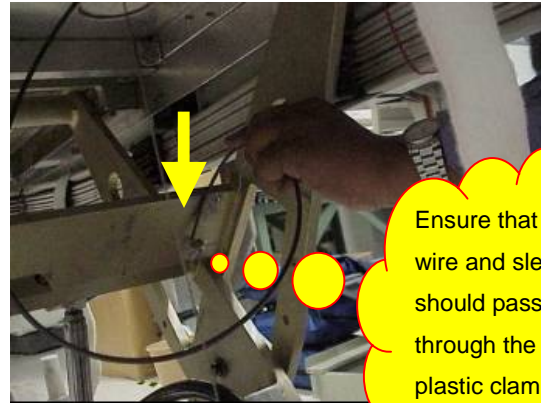
Insert the latch assembly to the tabletop and put the latch assembly cover as shown



Assemble the latch plate with latch mechanism to the table top as shown

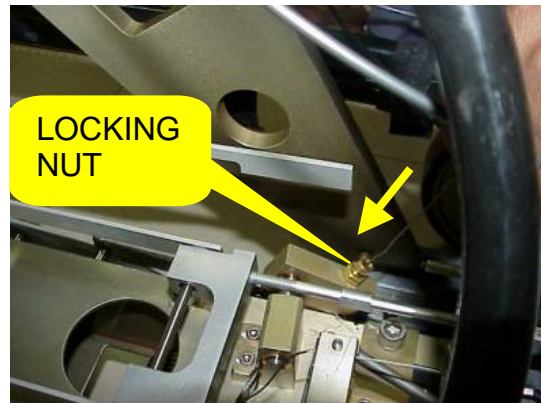
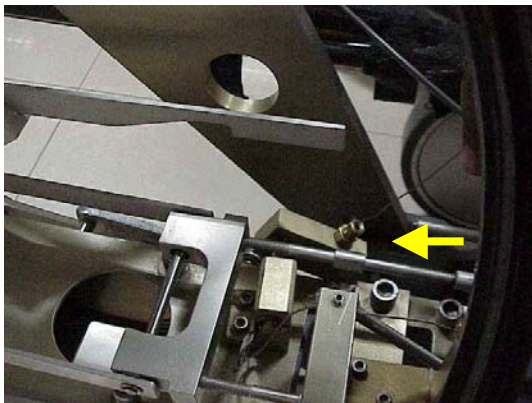
ILLUSTRATION 53 A

14.9 Route cable casing and cable through table plastic clamp, locking nut and down link clevis, see Illustration 53 B.

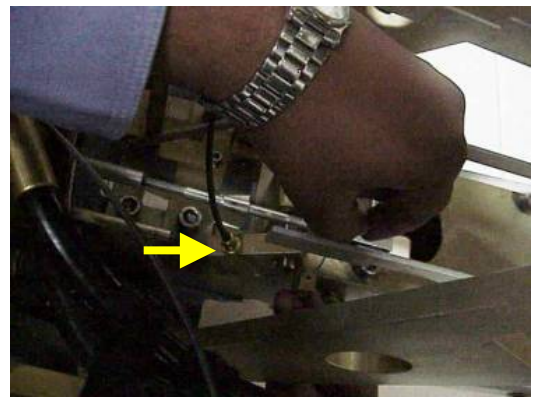


Ensure that the wire and sleeve should pass through the plastic clamp

Route the cable as shown



Insert the inner cable wire inside the actuator mechanism as shown



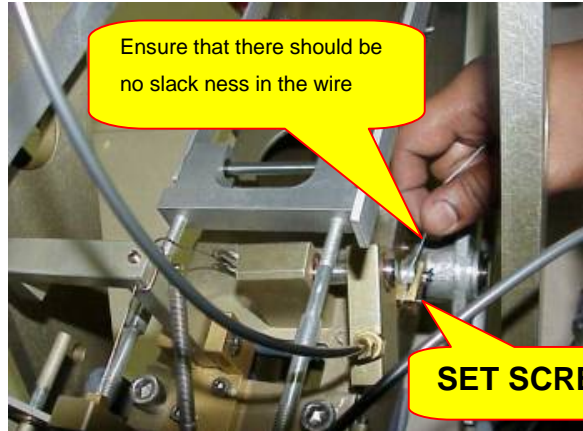
Pull the inner wire until the external sleeve enters the locking nut as shown
Then insert the inner wire dock lever mechanism link hole as shown

ILLUSTRATION 53 B

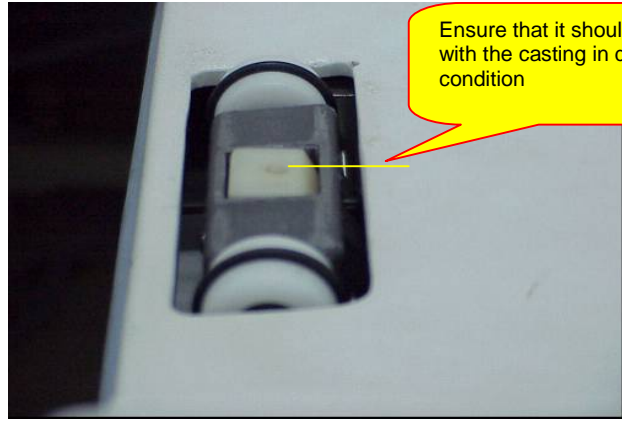
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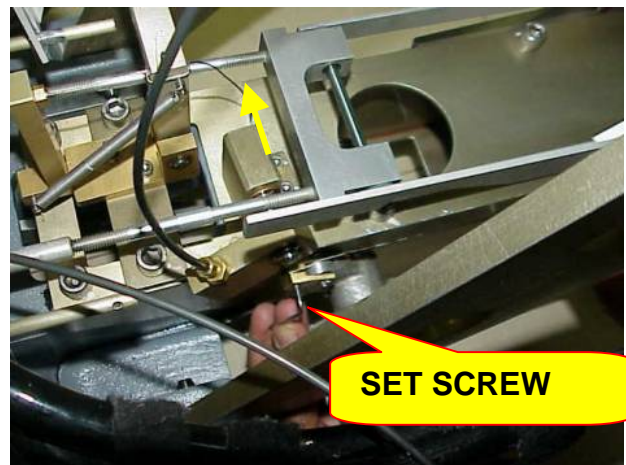
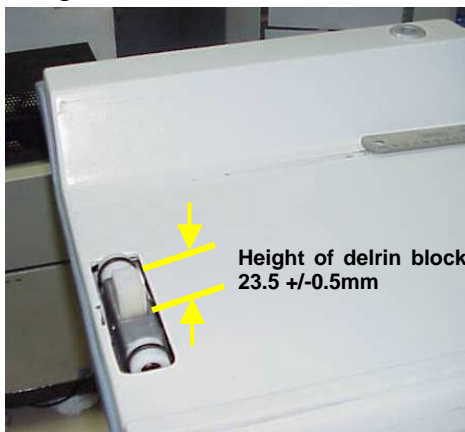
14.10 Tighten setscrew see Illustration 54.



Fully pre tension the wire by putting the knot with the link as shown



The cable adjustment should be done in such a way that the delrin latch should butt, Casting in dock condition.



In un-dock condition the latch delrin block should measure 23.5 +/-0.5mm,ensure the tightening of cable after setting is done with Allen key

ILLUSTRATION 54

14.11 Return patient table to exam room.

14.12 Dock patient table, Adjust cable so that when docked, main latch will be flush with casting. Refer to installation manual [Section 7.2](#), (Cradle Release Block Retraction Adjustment.) Cut off excess length after adjustment is complete. Secure adjustment by tightening lock nut after adjustment is complete, See Illustration 54.

14.13 Replace bellows to normal condition, Refer to [section 3-2](#).

15. HYDRAULIC FILTER REPLACEMENT

Perform the following procedure once each year to maintain smooth, responsive operation of the patient table hydraulics.

Required Materials:

Filter Kit 46-307878G1: qty. 1

Hydraulic Oil 46-230006P2

Absorbent Toweling

13/16" open end wrench: qty 1

3/4" open end wrench: qty 2

Ear Syringe: qty 1

15.1 Remove Hydraulic Filter

15.1.1 Undock table and remove from magnet room.

15.1.2 Raise patient transport to top condition.

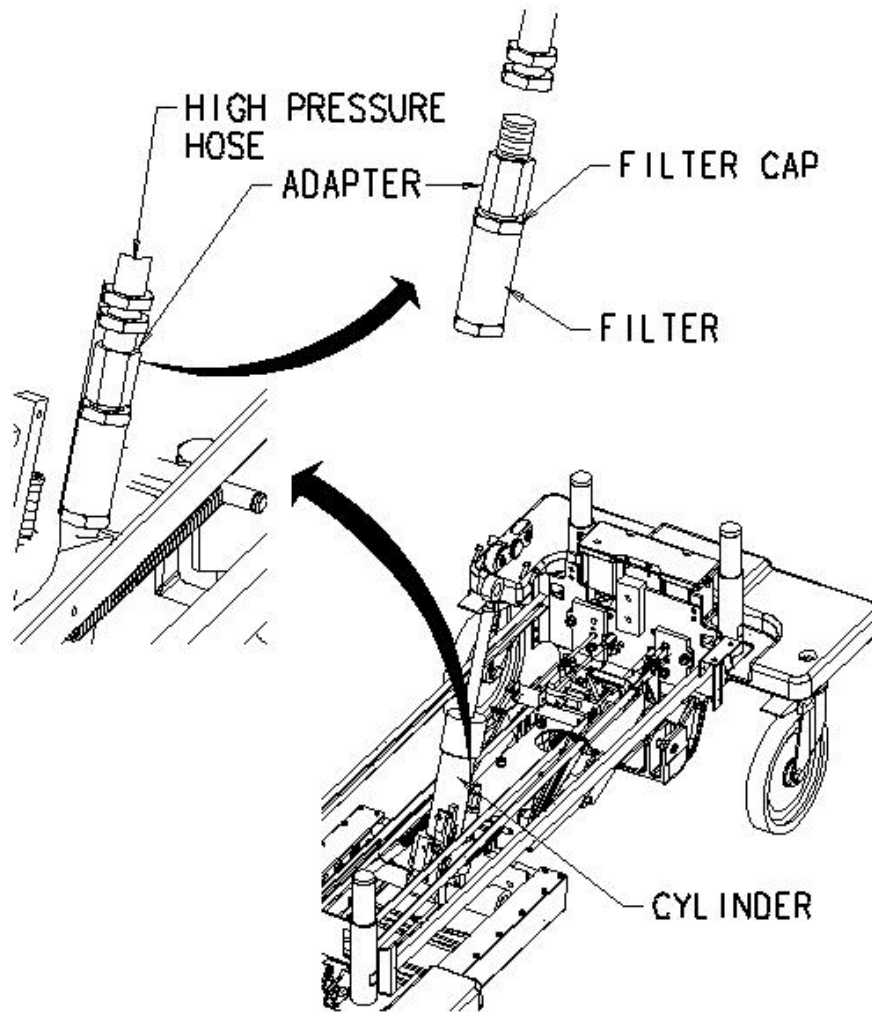
15.1.3 Move bellows to service position, refer to [section 3-1](#).

15.1.4 Lower the safety latch bar ,refer [section 5](#).

15.1.5 Release hydraulic pressure by gently pressing down foot pedal until table is fully supported by safety latch bar.

15.1.6 Place absorbent material or a drip pan on the floor under the cylinder block to catch any dripping oil.

15.1.7 Use a 13/16" wrench onto high-pressure hose fitting, See Illustration 55.



LOCATION OF HYDRAULIC FILTER

ILLUSTRATION 55

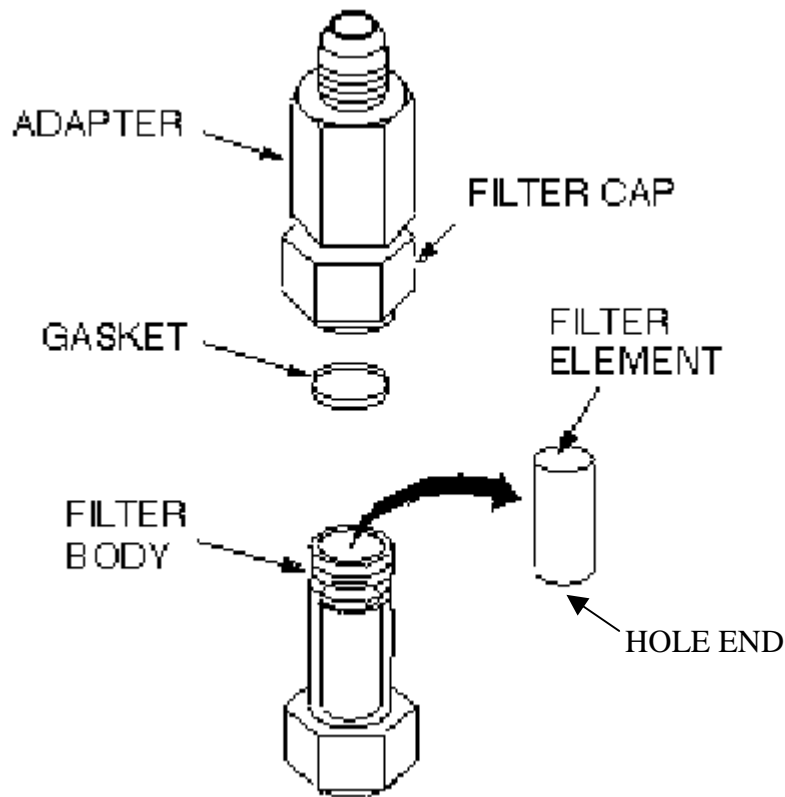
- 15.1.8** Turn wrench only enough to loosen the hose fitting initially, but do not let any oil leak.
- 15.1.9** Remove high-pressure hose from adapter. A small amount of oil will spill out of hose during removal; raise hose as high as possible to limit oil spillage.



CAUTION!!

Equipment damage possibility. Do not damage gasket with wrench during disassembly if reusing old gasket. It is better to replace gasket with a new one, to prevent oil from leaking.

15.1.10 Remove filter cap from filter using two 3/4" wrenches, see Illustration 56.



REMOVE FILTER ELEMENT

ILLUSTRATION 56

15.1.11 Remove dirty oil from top of filter.

15.1.12 Remove gasket and filter element from filter body and throw away.

15.2 Install Replacement Hydraulic Filter

15.2.1 Clean outside threads (both ends) of filter body with a clean cloth.

15.2.2 Clean interior threads of filter cap with a clean cloth.

15.2.3 Install new filter element (46-230889P1) hole end down, in filter body.
(Refer to Illustration 56).



CAUTION!!

Equipment damage possibility. When reassembling filter cap, use care not to damage gasket; ensure that gasket is properly seated before tightening with wrench. If gasket is deformed, oil will leak out of this connection when reassembled.

15.2.4 Install filter cap and new gasket (46-230889P2) onto filter body.
Ensure that new gasket seats properly before tightening with wrench.

15.2.5 Reconnect high-pressure hose to cylinder block. Tighten fully, then raise the table with Up foot pedal to allow clearance for wrench.

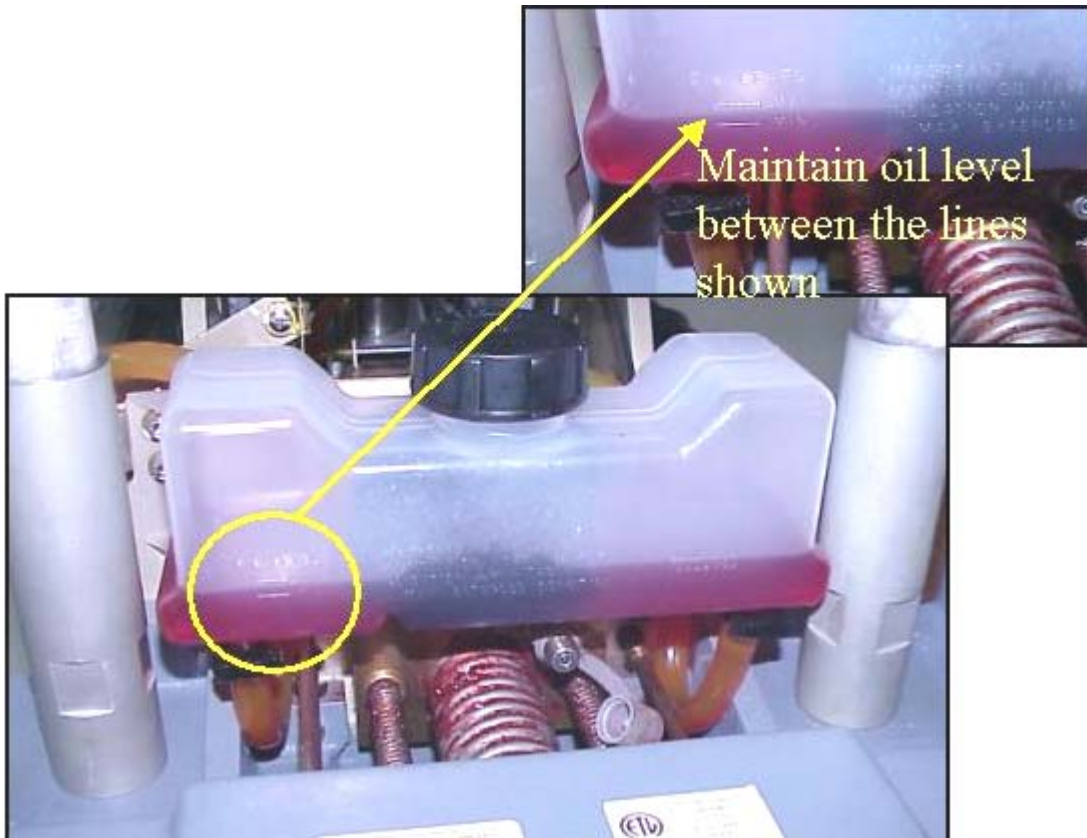
15.2.6 Raise table by pumping the Up foot pedal and check for oil leaks. If leaks occur, tighten connections snugly, but do not over tighten; brass fittings will deform if over tightened.

15.2.7 Remove the air from the hydraulic system (refer to [section 6](#) for procedure).

15.2.8 Move the safety latch back to home position, and lock it using spring lock refer to [section 5.2](#).

15.2.9 Raise the table to its top most height.

15.2.10 Fill table reservoir with hydraulic oil (46-230006P2), so that fluid is between the two marks shown on the reservoir, see Illustration 57.



PATIENT TABLE RESERVOIR FILL LEVEL

ILLUSTRATION 57

15.2.11 Move bellows to normal condition refer to [section 3-2](#).

16. DOWN RELEASE CABLE REPLACEMENT.



NOTE: THE CABLE USED HERE IS MAGNETIC PLS DO THE SERVICE OUT OF THE MAGNET ROOM AND ALSO ATTACH THE WARNING LABEL ON TO THE CABLE CASING FOR FUTURE SERVICE INFORMATION.

In case the down release cable has got cut and has to be replaced then the following procedure has to be followed.

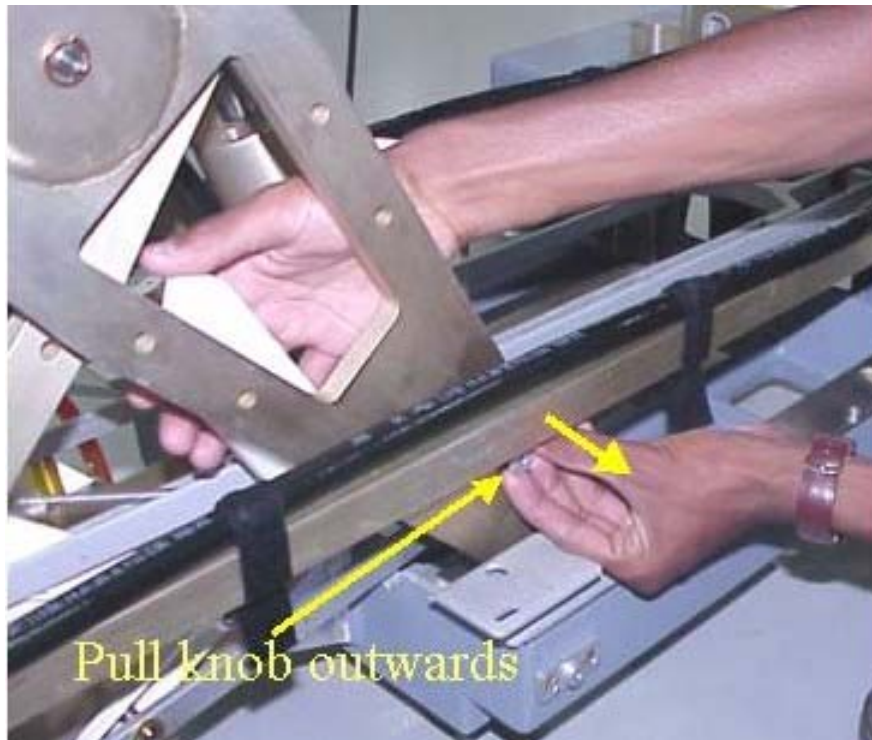


CAUTION:
Section 16.1 to 16.20 is applicable for tables prior to execution of FMI - 60719J
Refer Section 16.21 For Table Serial starting from HD_e Table Serial no: 20521WH1
& Signalite Serial No: 20477WH6 and after execution of FMI - 60719J



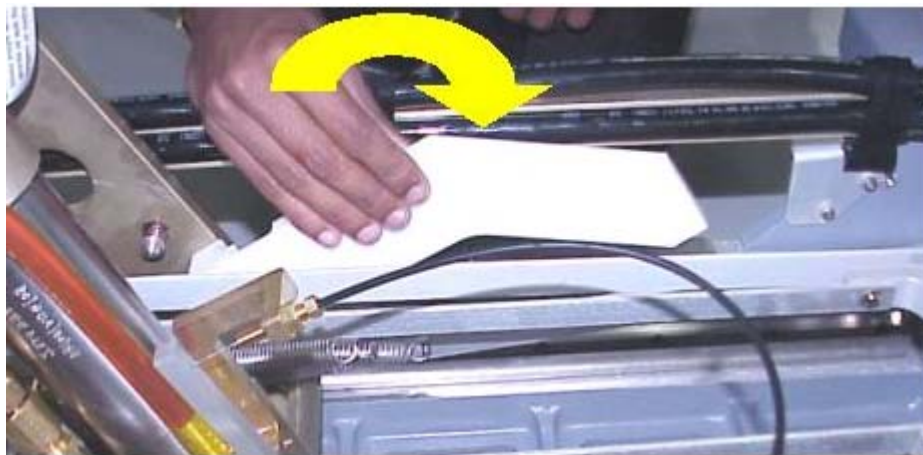
WARNING!!
PERSONAL INJURY POSSIBILITY! WHEN PERFORMING MAINTENANCE ON THE TABLE IN ITS UP POSITION, ENSURE THAT THE SAFETY LOCK BAR IS IN PLACE. SEVERE PERSONAL INJURY CAN OCCUR IF TABLE IS ACCIDENTALLY LOWERED DURING MAINTENANCE PERFORMANCE. ALSO DO NOT LOAD THE TABLE DURING MAINTENANCE.

- 16.1 Move bellows to service position refer to [section 3-1](#).
- 16.2 Engage the safety latch bar, Refer Steps below for procedure of engaging the safety latch bar.
- 16.3 Unhook Safety latch bar by pulling the lock pin knob outward, (Refer Illustration 58A), and engage it towards the casting, then lower table by pressing the down pedal until lock bar fully supports table top. (Refer Illustration 58B & 58C).



UNLOCKING SAFETY LATCH BAR

ILLUSTRATION 58A



ENGAGING SAFETY LATCH BAR

ILLUSTRATION 58B



ENGAGING SAFETY LATCH BAR

ILLUSTRATION 58C

16.4 Remove the grub screw on the pump end of the mechanism, as shown in Illustration 58D.

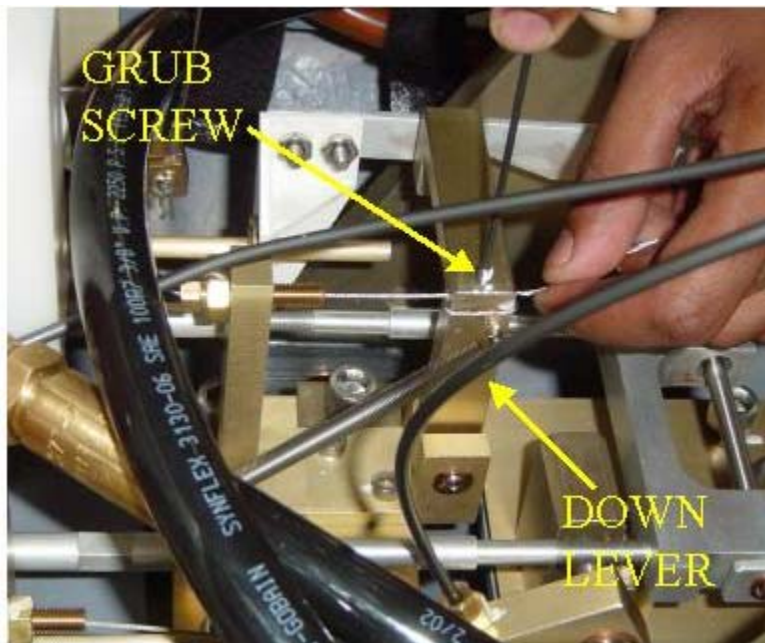


ILLUSTRATION 58D

16.5 Now pull out the cable from the cylinder end of the mechanism as shown in Illustration 59.

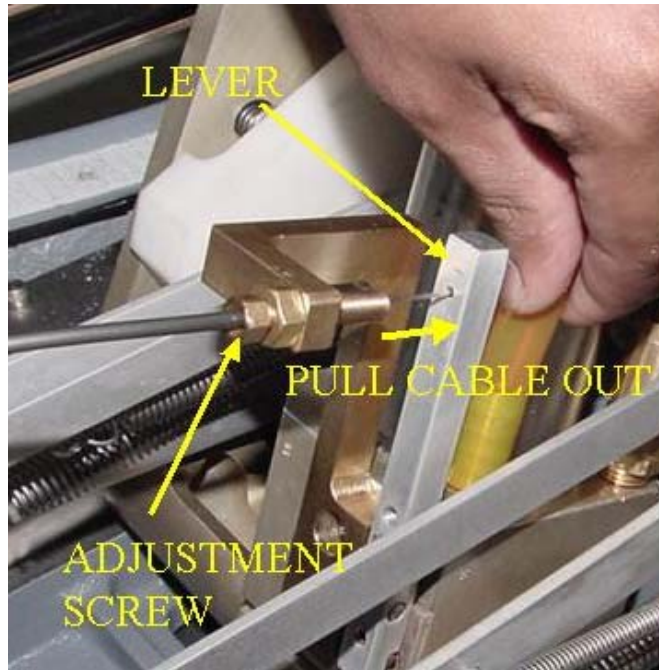


ILLUSTRATION 59

16.6 Set adjustment screw dimension (as in Illustration 59A) to 22 mm on the cylinder.



ILLUSTRATION 59A

16.7 Place gauge (Prt no. 5108543) below aluminium lever in assembly , refer to Illustration 59B.

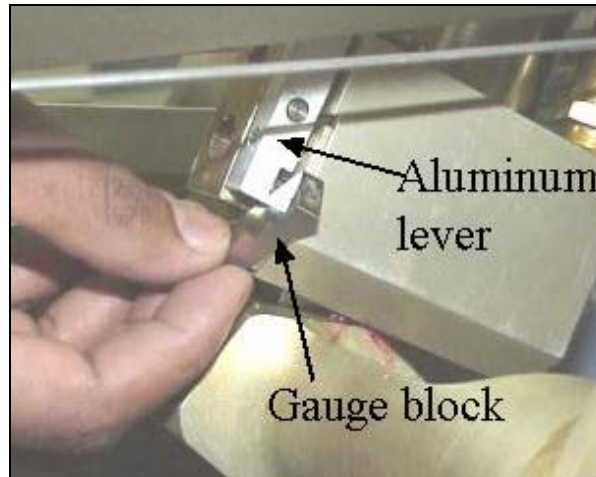


ILLUSTRATION 59 B

16.8 Now insert the ball end of the cable through the lever, and pass the cable through lever counterbore, and pass it through the adjustment screw till it comes out at the other end, at this point insert the Molybdenum tube, and then pass it through the sleeve till it comes out of the sleeve at the down lever at the pump end of table, Refer Illustration 59C.

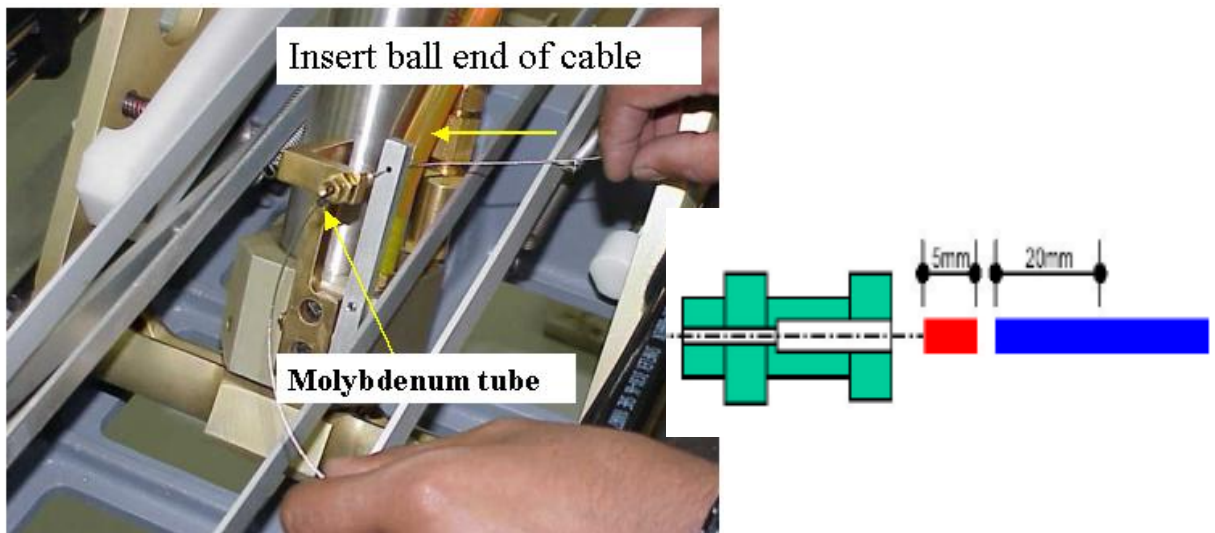


ILLUSTRATION 59C

Note: Here ensure that the cable casing is completely inside the adjustment screw (It should go in approximately 20 mm). Refer Illustration 59C.

16.9 Tighten grub screw on the aluminium lever refer Illustration 59D below.



ILLUSTRATION 59D

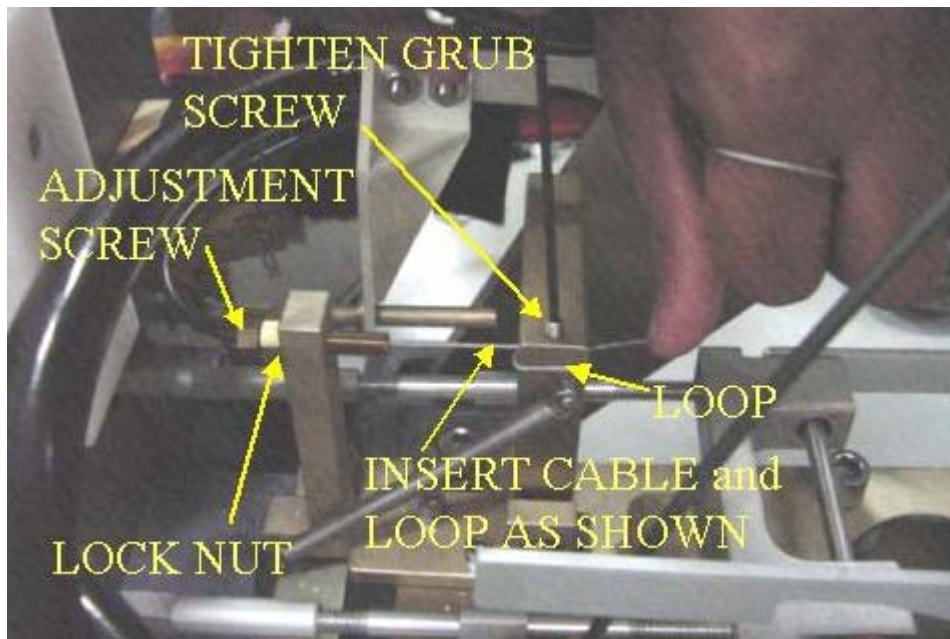


ILLUSTRATION 59E

16.10 Insert the cable casing inside the adjustment screw and pull cable around down lever loop as shown. Refer Illustration 59E above.

Note: Test whether the grub screw is holding the cable by pulling the cable. Also ensure that the cable casing is completely inside the adjustment screw (It should go in 20 mm approximately) refer to Illustration 59C.

16.11 Fix the cable using a grub screw, (46-221560P3). (Apply loctite 242 before fixing screw)(Do not reuse old grub screw), refer Illustration 59E.

16.12 Coil excess length of the cable near down lever assembly. Refer to Illustration 59F.



ILLUSTRATION 59 F

16.13 Rotate adjustment screw “One rotation Clockwise” to slightly reduce the tension. Refer Illustration 59G.

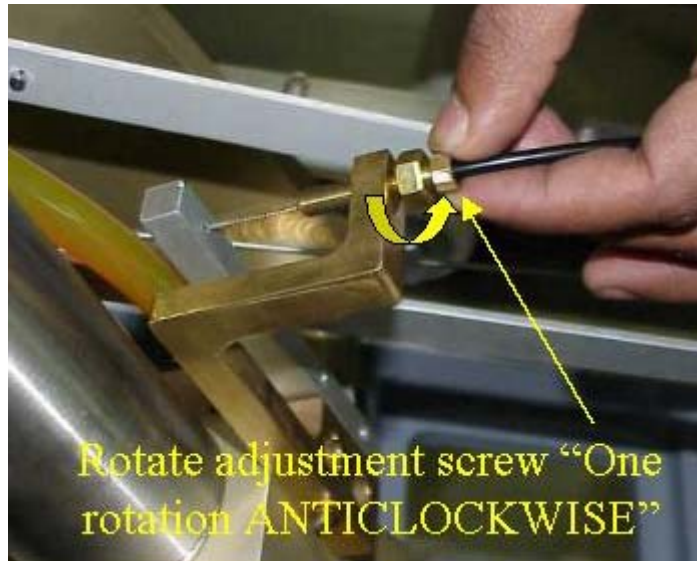


ILLUSTRATION 59G

16.14 Hold the adjustment screw in this position and tighten the lock nut , refer Illustration 59H.

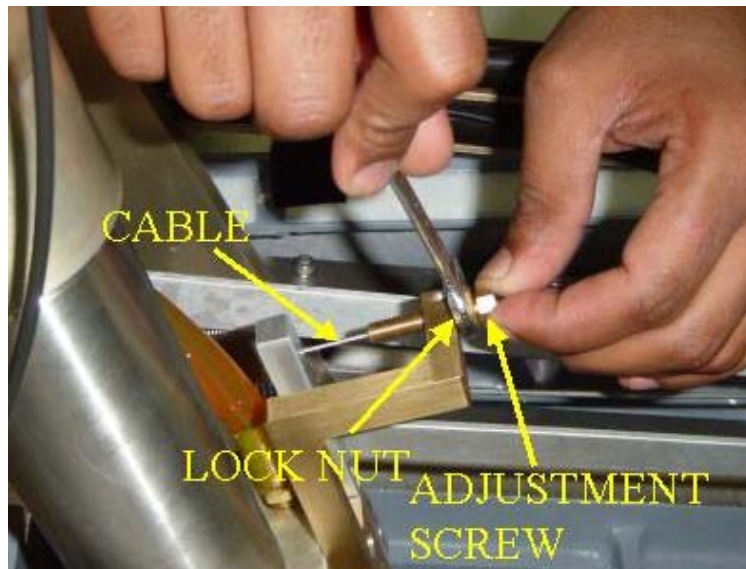


ILLUSTRATION 59 H

16.15 Remove the gauge from the cylinder ,refer Illustration 59I.

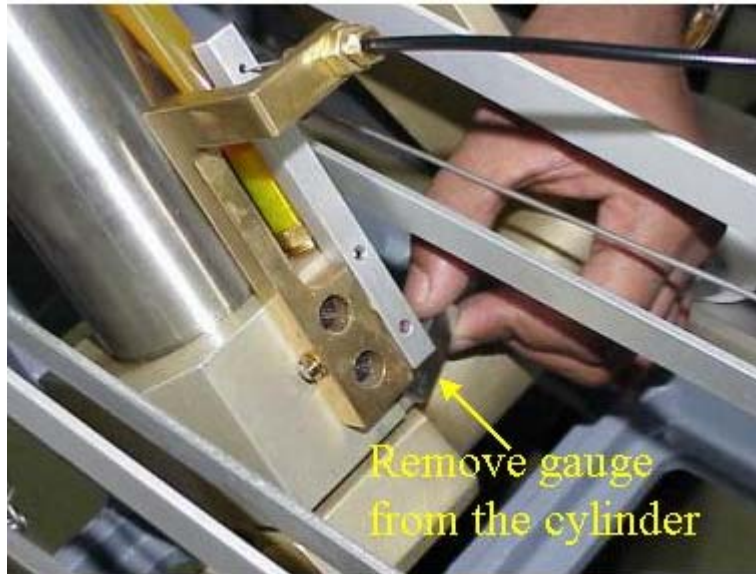
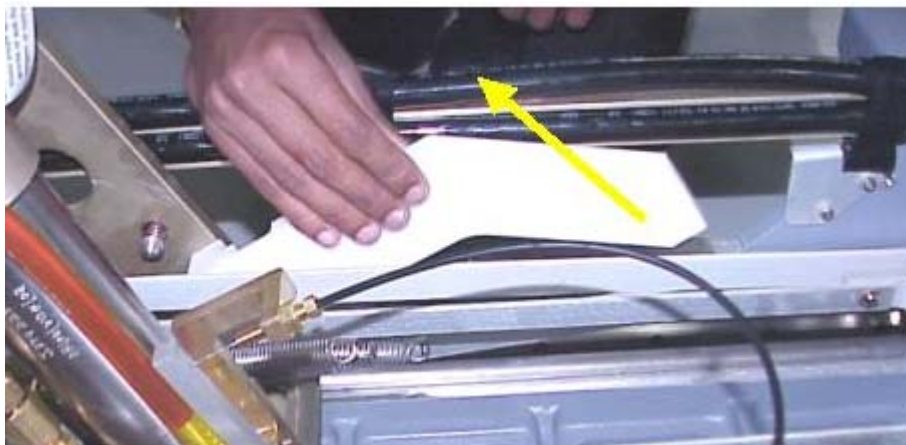


ILLUSTRATION 59I

- 16.16** Check for normal functioning of the table from “Pedal side” as well as from “Dock side”, by pumping up the table slightly and then activating the down pedal, next disengage the safety latch bar follow the below steps.
- 16.17** Pull the safety latch bar away from the supporting rib of the casting, slide it back to it initial position until it locks back in the spring lock provided. Refer to Illustration 59J.



DIS-ENGAGING SAFETY LATCH BAR

ILLUSTRATION 59J

- 16.19** Ensure that the latch bar is firmly locked in it rest position, refer to Illustration 60 .



SAFETY LATCH BAR IN LOCKED CONDITION
ILLUSTRATION 60

16.20 Move bellows to normal condition refer to [section 3-2](#).

Note: Check for proper routing of cable and ensure that there are no kinks in the Cable /Cable casing especially in the area shown in Illustration 60A. Also check if the plastic bracket is held firmly and is not loose. And also check for the 1.5mm gap if required set the gap using the setscrews. Refer Illustration 60 B.



ILLUSTRATION 60A

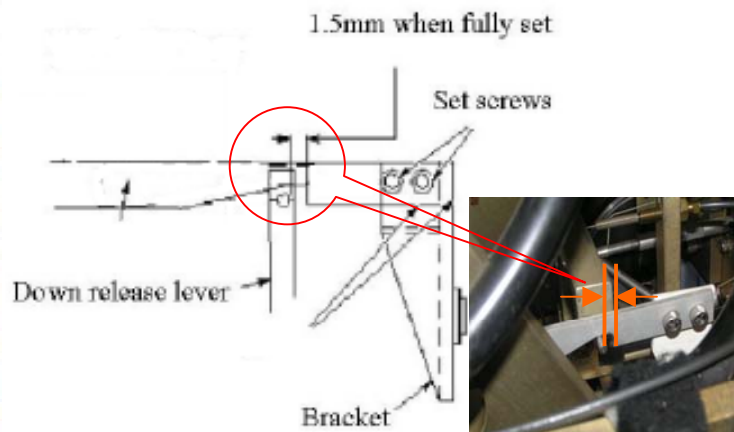


ILLUSTRATION 60B

16.21 NEW DOWN RELEASE CABLE REPLACEMENT:



CAUTION:

Section 16.1 to 16.20 is applicable for tables prior to execution of FMI - 60719J
Refer Section 16.21 For Table Serial starting from HDe Table Serial no: 20521WH1
& Signalite Serial No: 20477WH6 and after execution of FMI - 60719J

NEW PARTS LIST:

1. 5146521-2 New cable sleeve with end cap-Signalite table - 47 Inch length.
2. 5146435 Screw Bush



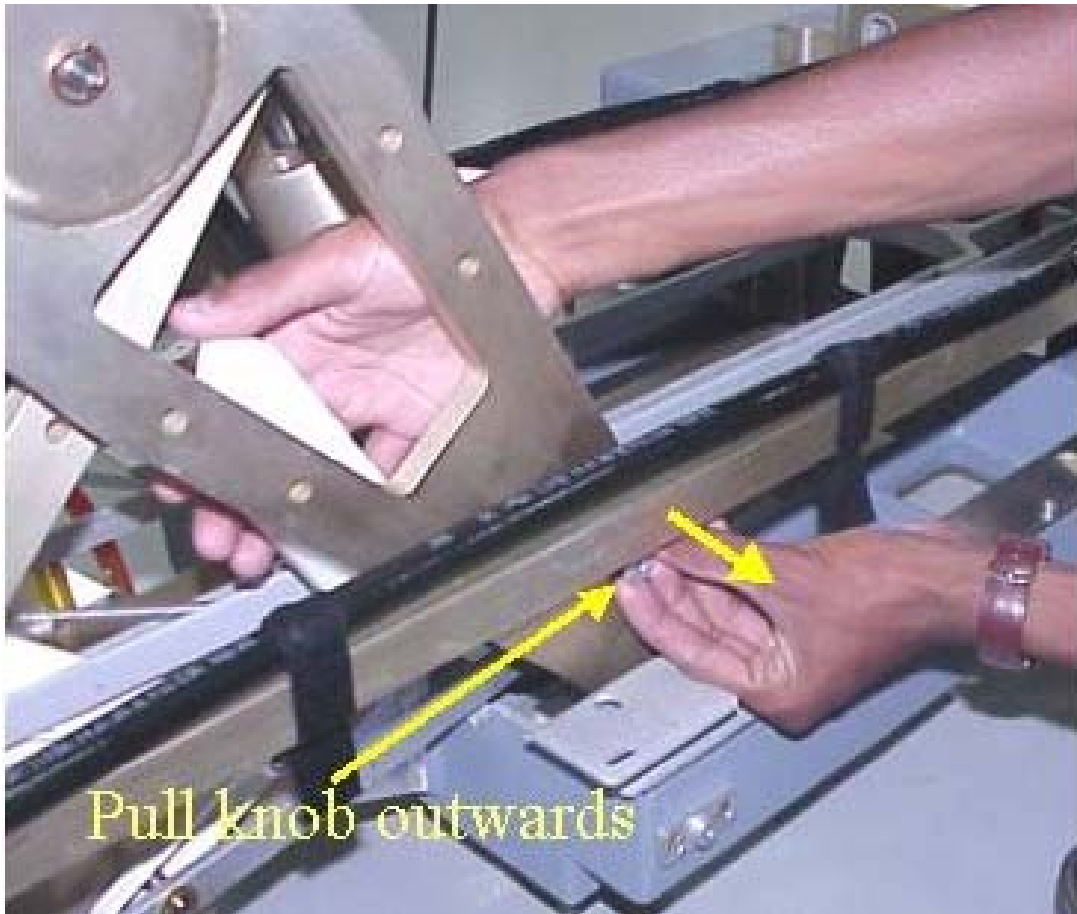
1. INTIAL PREPERATION

1.1 Move bellows to service position refer to [section 3-1](#).



1.2 Engage the safety latch bar, Refer Steps below for procedure of engaging the safety latch bar.

1.3 Unhook Safety latch bar by pulling the lock pin knob outward, (Refer Illustration 1-1), and engage it towards the casting, then lower table by pressing the down pedal until lock bar fully supports table top. (Refer Illustration 1-2 & 1-3).



UNLOCKING SAFETY LATCH BAR

ILLUSTRATION 1-1



ENGAGING SAFETY LATCH BAR

ILLUSTRATION 1-2



ENGAGING SAFETY LATCH BAR

ILLUSTRATION 1-3

2. REMOVAL OF DOWN RELEASE CABLE ASSEMBLY

2.1 Unwind the inner wire of the Down release cable on the down lever side in the front of the table and loosen the Grub Screw. Illustrations 2-1 and 2-2.



ILLUSTRATION 2-1



ILLUSTRATION 2-2

2.2 Remove the inner wire and the outer cable from the down lever side as shown in ILLUSTRATION 2-3 to 2-6.



ILLUSTRATION 2-3



ILLUSTRATION 2-4



ILLUSTRATION 2-5

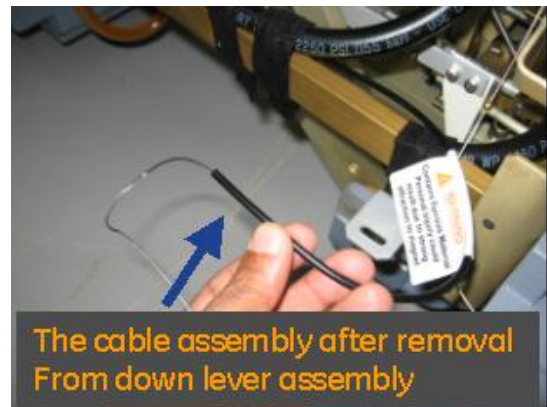


ILLUSTRATION 2-6

2.3 Loosen the inner wire on the Cylinder side as shown in Illustration 2-7. Pull out the inner wire from the lever as shown in Illustration 2-8. Completely extract the inner wire as shown in Illustration 2-9. Remove the Outer cable from the lever as shown in Illustration 2-10.



ILLUSTRATION 2-7



ILLUSTRATION 2-9

ILLUSTRATION 2-8



ILLUSTRATION 2-10

2.4 In order to remove the cable assembly, the felt tape and cable tie, which are below the felt tape, is required to be removed. The locations of the cable tie are shown in ILLUSTRATION 2-11.

Remove the Felt Tape as shown in ILLUSTRATION 2-12.

Carefully cut the cable tie as shown in ILLUSTRATION 2-13.

Pull out the cable assembly as shown in ILLUSTRATION 2-14.



ILLUSTRATION 2-11

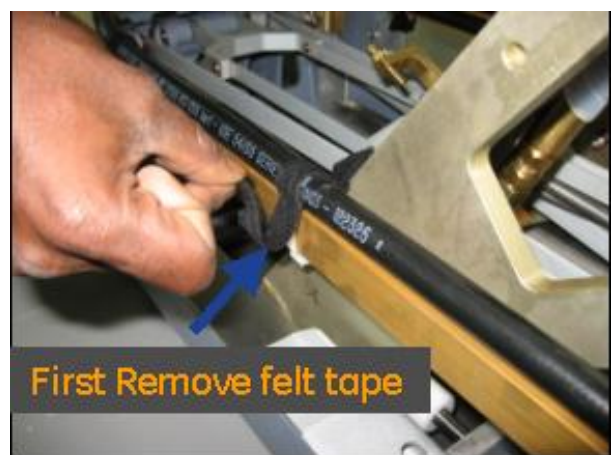


ILLUSTRATION 2-12

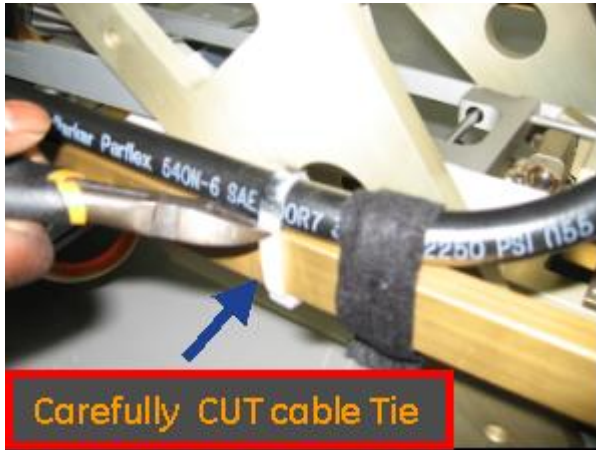


ILLUSTRATION 2-13

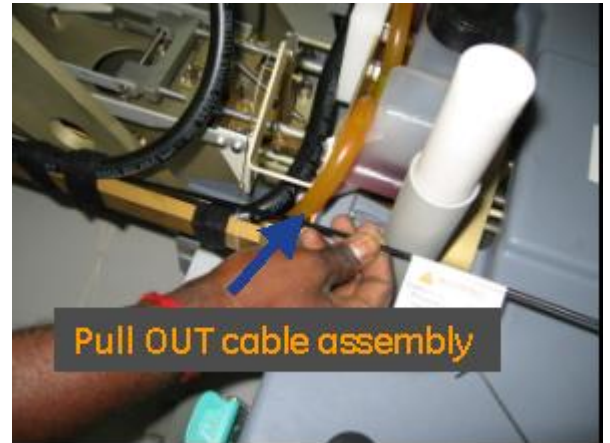


ILLUSTRATION 2-14

3. REMOVAL OF ADJUSTMENT SCREW FROM DOWN LEVER.

3.1 In the down lever at the front side of the table, loosed the NUT and remove the Adjustment screw as shown in ILLUSTRATION 3-1 to 3-3.

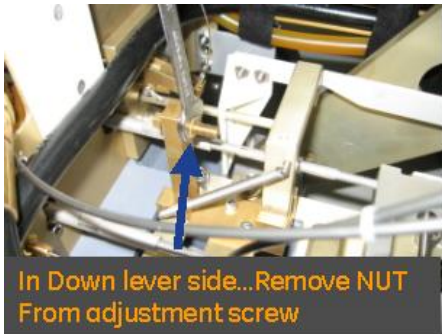


ILLUSTRATION 3-1



ILLUSTRATION 3-2



ILLUSTRATION 3-3

4. REMOVAL OF PLASTIC PART FROM ADJUSTMENT SCREW ON CYLINDER SIDE.

4.1 Loosen NUT and remove Adjustments screw as shown in ILLUSTRATION 4-1. Remove the Small plastic part, which will be inside the adjustment screw as shown in ILLUSTRATION 4-1 to 4-4



ILLUSTRATION 4-1



ILLUSTRATION 4-2



ILLUSTRATION 4-3



ILLUSTRATION 4-4

5. RE-INSTALL THE ADJUSTMENT SCREW ON CYLINDER SIDE.

5.1 Reinstall the Adjustment screw on the Cylinder lever as shown in ILLUSTRATION 5-1 **with out the small plastic part.**

Ensure that the length of the Adjustment screw is about 22mm as shown in ILLUSTRATION 5-2



ILLUSTRATION 5-1

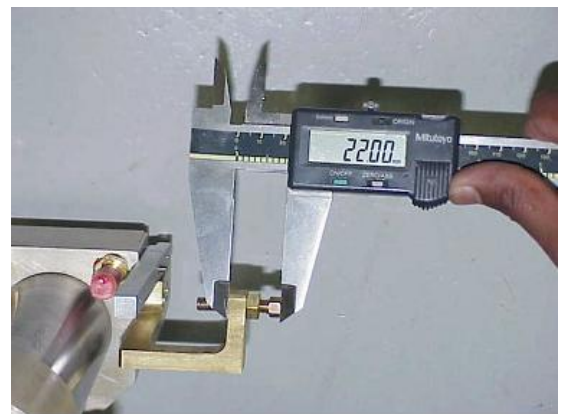


ILLUSTRATION 5-2

6. INSTALL THE SCREW BUSH ON THE DOWN LEVER IN THE FRONT SIDE.

6.1 Install the New part: Screw Bush on the down lever as shown in ILLUSTRATION 6-1 to ILLUSTRATION 6-5



ILLUSTRATION 6-1

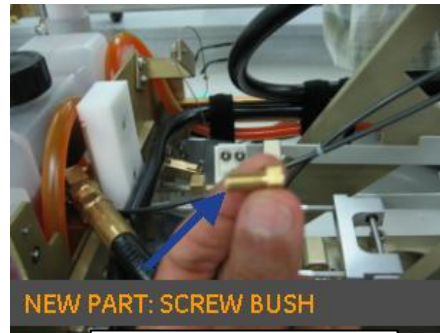


ILLUSTRATION 6-2



ILLUSTRATION 6-3



ILLUSTRATION 6-4

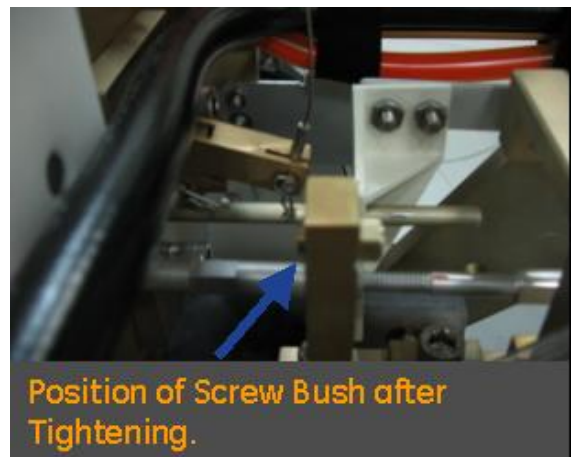


ILLUSTRATION 6-5

7. INSTALL NEW CABLE ASSEMBLY.

7.1 Install the Magnetic Material warning label on the new cable assembly as shown in ILLUSTRATION 7-1.

Remove inner wire from the New cable assembly as shown in ILLUSTRATION 7-2.

Insert the inner wire through the lever and adjustment screw on the cylinder as shown in ILLUSTRATION 7-3 and ILLUSTRATION 7-4.

Insert the inner wire into the outer cable as shown in ILLUSTRATION 7-5.

Engage the end cap of the outer cable as shown in ILLUSTRATION 7-6, 7-7 and 7-8.



ILLUSTRATION 7-1



ILLUSTRATION 7-2



ILLUSTRATION 7-3



ILLUSTRATION 7-4

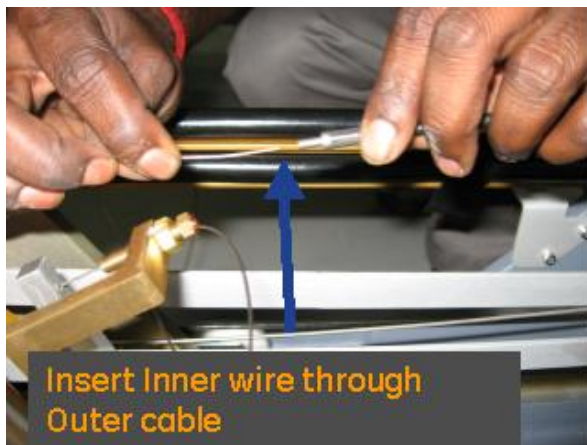


ILLUSTRATION 7-5



ILLUSTRATION 7-6



ILLUSTRATION 7-7



ILLUSTRATION 7-8

7.2 Route the New cable assembly as shown in ILLUSTRATION 7-9 in the front side of the table.

Insert the inner wire through the screw bush as shown in ILLUSTRATION 7-10.

Carefully engage the end cap of the new cable assembly in the screw bush as shown in ILLUSTRATION 7-11.

Route the inner wire through the Down lever as shown in ILLUSTRATION 7-12.

Loop the inner wire through the Down Lever as shown in ILLUSTRATION 7-13.

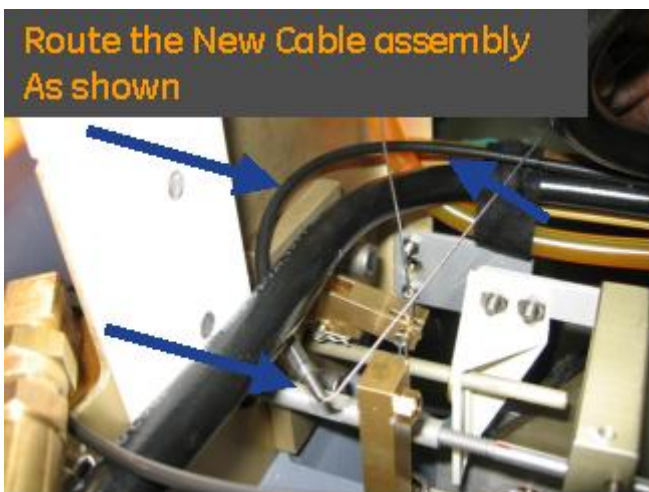


ILLUSTRATION 7-9



ILLUSTRATION 7-10



ILLUSTRATION 7-11



ILLUSTRATION 7-12

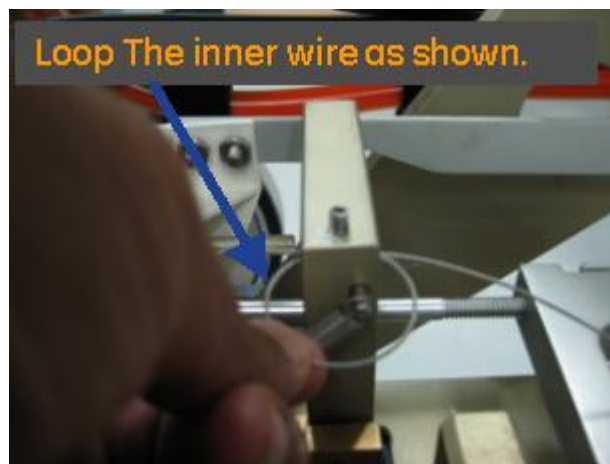


ILLUSTRATION 7-13

7.3 On Cylinder side Loosen Grub screw as shown in ILLUSTRATION 7-14.

Position down release gauge (Part no: 5108543) below the aluminum lever as shown in ILLUSTRATION 7-15.

Hold the gauge in place and tighten Grub screw as shown in ILLUSTRATION 7-16. The gauge will remain in position as shown in ILLUSTRATION 7-17

On down lever side, PULL inner wire and tighten Grub screw as shown in ILLUSTRATION 7-18.



CAUTION: Test whether the grub screw is holding the cable by pulling the cable.

Wind the excess inner wire as shown in ILLUSTRATION 7-19.



ILLUSTRATION 7-14



ILLUSTRATION 7-15



ILLUSTRATION 7-16



ILLUSTRATION 7-17

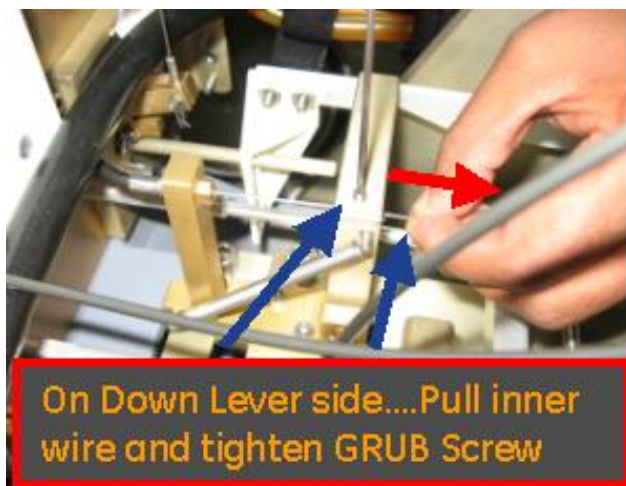


ILLUSTRATION 7-18



ILLUSTRATION 7-19

7.4 Rotate adjustment screw “One rotation Clockwise” to slightly reduce the tension as shown in ILLUSTRATION 7-20.

Hold the adjustment screw and tighten the Lock Nut as shown in ILLUSTRATION 7-21

Remove the Gauge as shown in ILLUSTRATION 7-22 and 23.

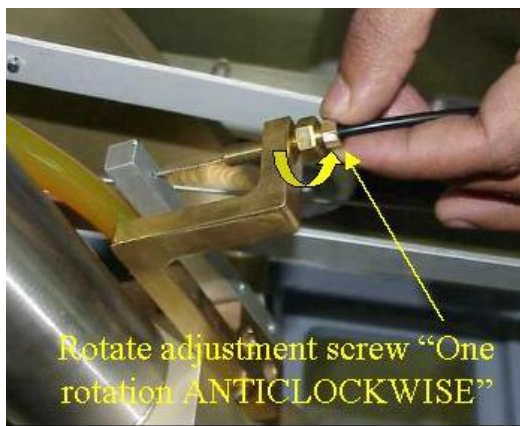


ILLUSTRATION 7-20

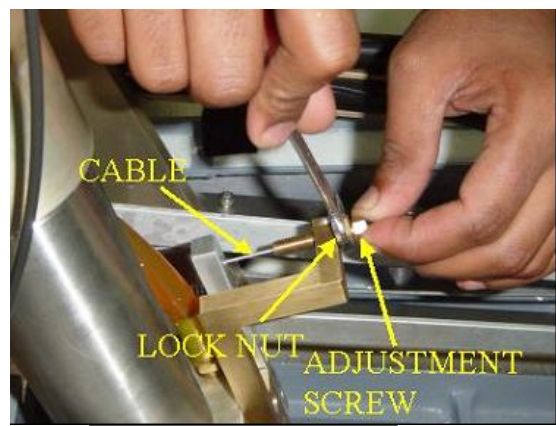


ILLUSTRATION 7-21

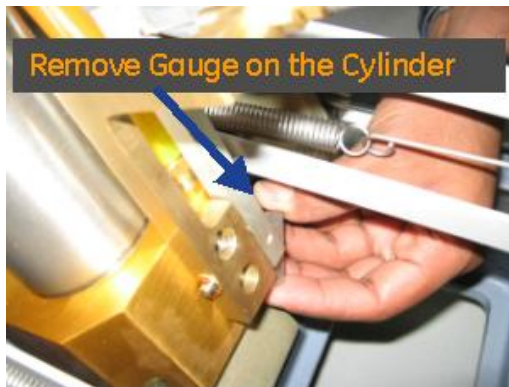


ILLUSTRATION 7-22



ILLUSTRATION 7-23

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7.5 Complete the routing of cable and install cable tie and cover with felt tape as shown in ILLUSTRATION 7-24 to 26.

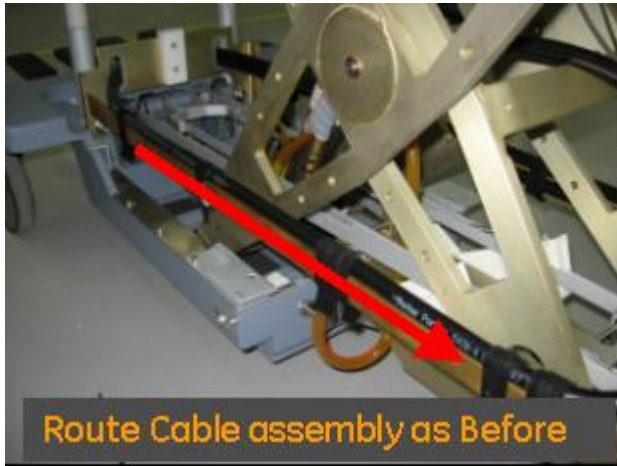


ILLUSTRATION 7-24



ILLUSTRATION 7-25



ILLUSTRATION 7-26

8. FUNCTIONAL CHECKS AND RELEASE OF SAFETY LEVER.

- 9.1 Check for normal functioning of the table from “Pedal side” as well as from “Dock side”, by pumping up the table slightly and then activating the down pedal, next disengage the safety latch bar follow the below steps.
- 9.2 Pull the safety latch bar away from the supporting rib of the casting, slide it back to it initial position until it locks back in the spring lock provided as shown in ILLUSTRATION 8-1.

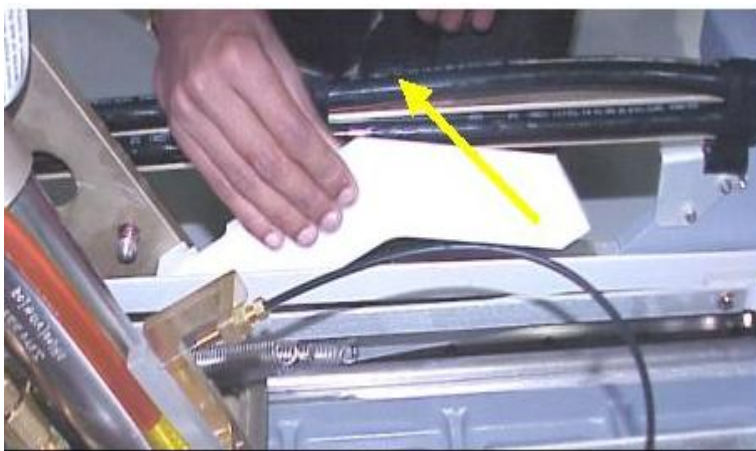


ILLUSTRATION 8-1

- 8.3 Ensure that the latch bar is firmly locked in it rest position as shown in ILLUSTRATION 8-2

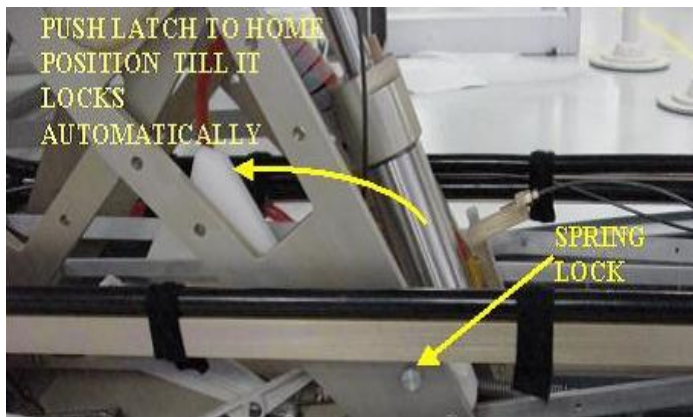


ILLUSTRATION 8-2



Note: Check for proper routing of cable and ensure that there are no kinks in the Cable also check if the plastic bracket shown in ILLUSTRATION 8-3 is held firmly and is not loose. And also check for the 1.5mm gap if required set the gap using the setscrews.

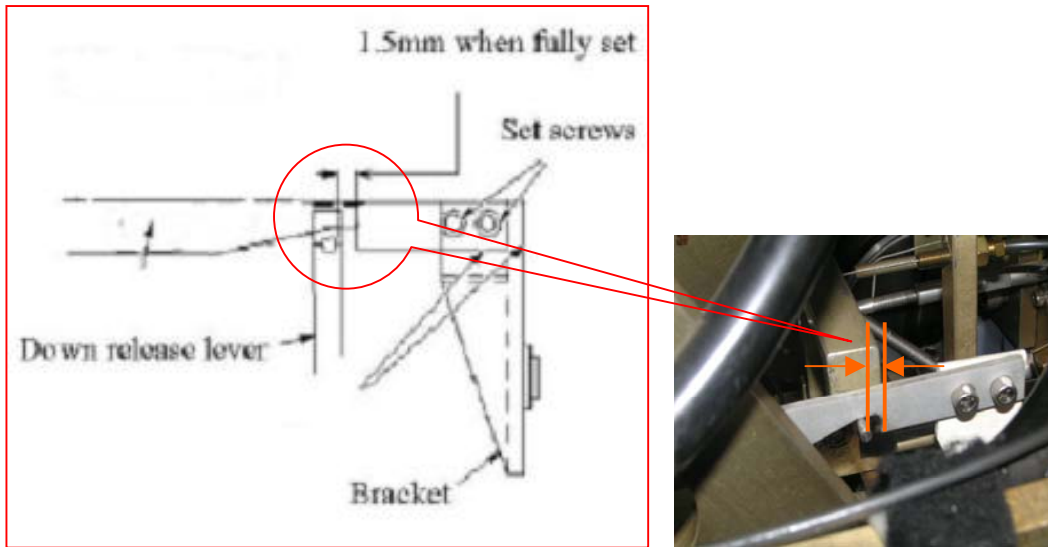


ILLUSTRATION 8-3

9. FINAL STEP

9.1 Move down the bellows as per [Section 3-2](#).

10. Return Table to MR Room

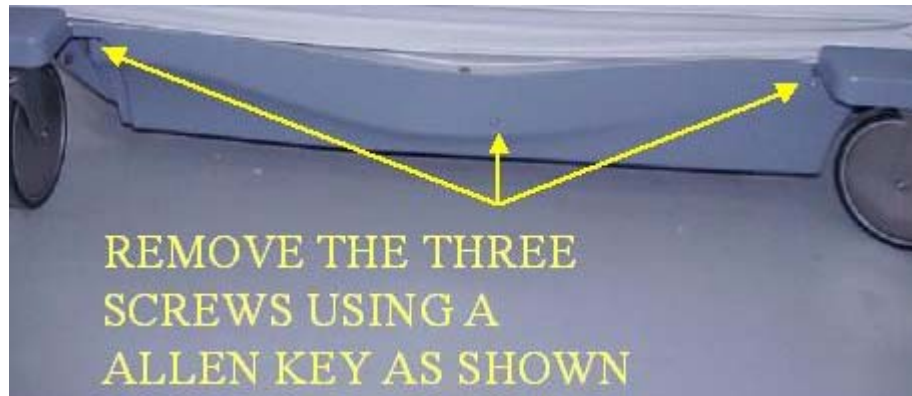
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17. REPLACEMENT OF HYDRAULIC CYLINDER IN CASE OF FAILURE IN TABLE LOWER MOST CONDITION:

In case of cylinder failing in table lower most condition, then the following procedure Has to be followed, Also Note that 2 extra helpers will be required to lift the tabletop while the field engineer engages the safety latch and then replaces the hydraulic cylinder.

17.1 First remove the bottom cover (refer Illustration 61) by removing the three screws shown, and also remove bellows screws to free bellows from brackets on casting. Refer to [section 3-1](#).



LOOSEN THE BELLOW SCREWS

ILLUSTRATION 61

17.2 Next Lift the table top , Refer Illustration 62 and in this condition the third person should lift the bellows and engage the safety latch, (Refer to [section 5](#) for procedure of engaging the safety latch bar).



LIFTING OF TABLE TOP

ILLUSTRATION 62



WARNING!!

PERSONAL INJURY POSSIBILITY! WHEN PERFORMING MAINTENANCE ON THE TABLE IN ITS UP POSITION, ENSURE THAT THE SAFETY LATCH BAR IS SAFELY IN PLACE. SEVERE PERSONAL INJURY CAN OCCUR IF TABLE IS ACCIDENTALLY LOWERED DURING MAINTENANCE OPERATION. CAUTION !!! DO NOT LOAD THE TABLE DURING MAINTENANCE.

17.3 Next follow the same procedure/steps for hydraulic cylinder replacement as Explained in [section 7](#).

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18. BELLOWS REPLACEMENT

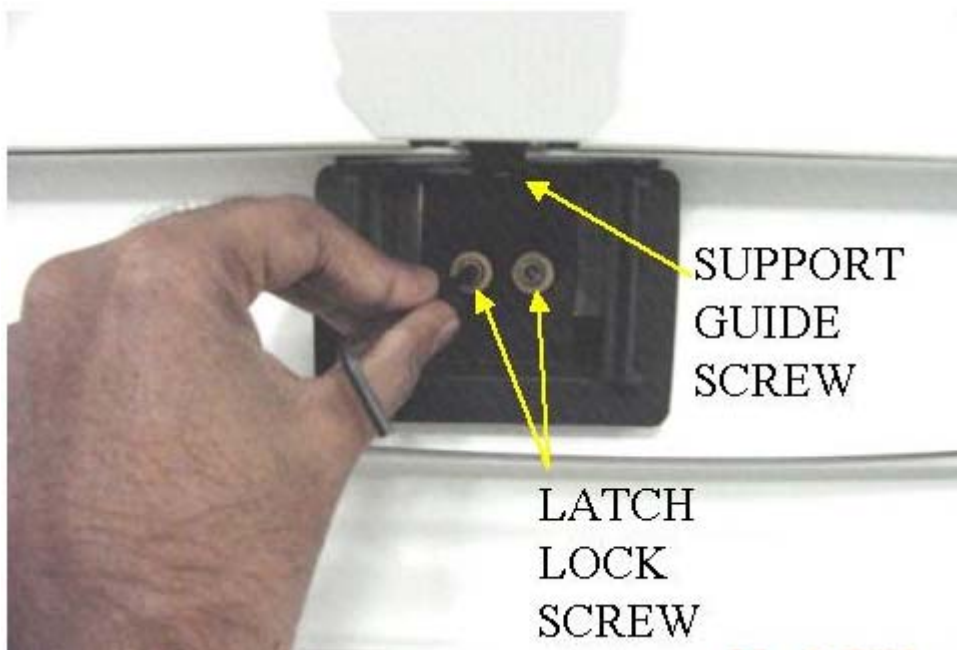
For the removal and replacement of bellows in the patient table the following procedure has to be followed.

Note: For Table SI. Nos. 2815WH9, 2816WH7, 2817WH5, 2818WH3, 2819WH1, 2820WH9, 2821WH7. (Old Design of Bellows (5109472)/Top outer cover-LH (5109478) & Top outer cover-RH (5109478-2) have to be used).



NOTE: FOR THE BELOW PROCEDURE TWO HELPERS WILL BE REQUIRED TO LIFT OFF THE TABLE TOP. BEFORE THE F.E. REMOVES THE BELLOWS.

- 18.1 Undock patient table, and move it out of MR room.
- 18.2 Raise table to up position.
- 18.3 Remove the bottom cover and bellows; refer section 3-1 steps 3.1.1 to 3.1.6.
- 18.4 Remove the rubber lock from the slot in the top outer cover located on both sides refer to Illustration 63 below, Now remove the rubber guide fixed to the latch support refer to Illustration 63 , Next remove the screw connecting the top rim of the bellows. (Refer to Illustration 64 and 65 below) and move the top cover down.



REMOVAL OF RUBBER LOCK

ILLUSTRATION 63



REMOVAL OF BELLOW TOP COVER

ILLUSTRATION 64



BELLOWS AND TOP COVER MOVED DOWN.

ILLUSTRATION 65

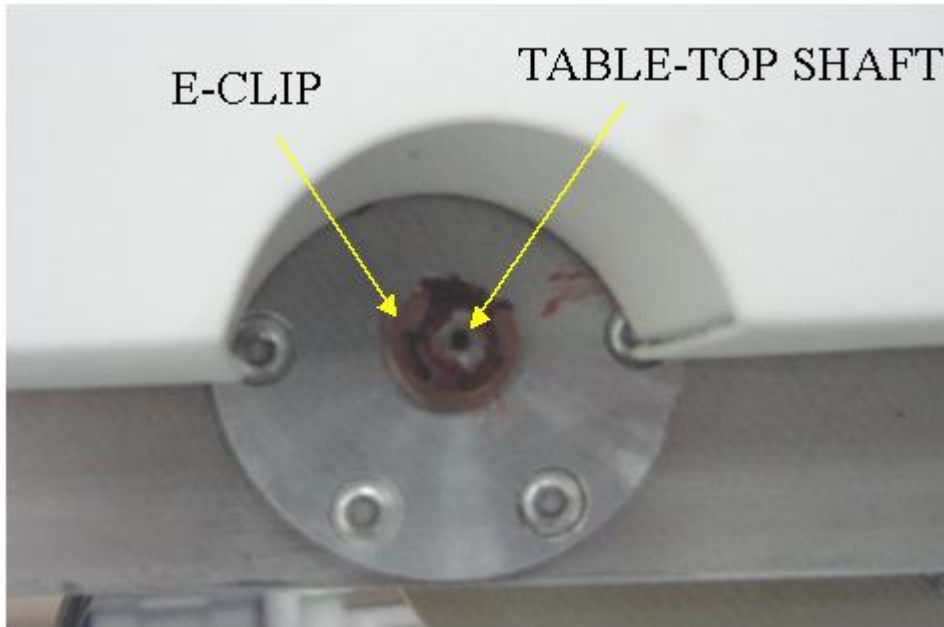
18.5 Next remove the tabletop by following the below steps.

18.6 Lift the arm board to top position and lock it.

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18.7 Remove the E-Clip of the table top using a flat screw driver(refer Illustration 66).



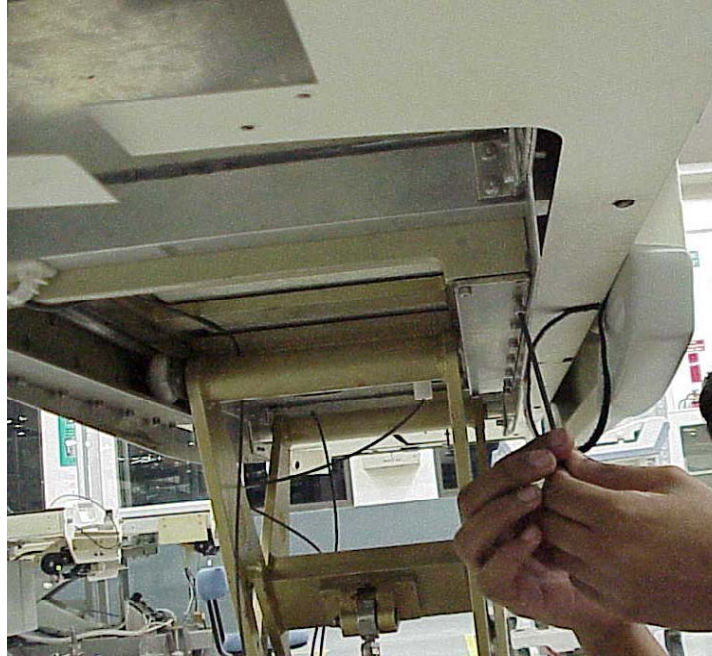
**E-CLIP REMOVAL OF THE TABLE TOP SHAFT
ILLUSTRATION 66**

18.8 Next remove the shaft, refer to Illustration 67(if required use a mallet).



**SHAFT REMOVAL OF THE TABLE TOP
ILLUSTRATION 67**

18.9 Next remove the top guide cover (left and right side) , Refer Illustration 68 .



REMOVAL OF TOP GUIDE COVER

ILLUSTRATION 68

18.10 Next disconnect the flipper cable by loosening the setscrew from the interlock lever, Refer Illustration 69.



REMOVAL OF FLIPPER CABLE

ILLUSTRATION 69

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18.11 Now route the cable out side so that it does not get entangled while lifting off the tabletop.

18.12 Next disconnect the cradle latch cable by removing the setscrew as shown in Illustration 70.



REMOVAL OF CRADLE LATCH CABLE

ILLUSTRATION 70

18.13 Now disconnect the secondary latch cable by removing the grub screw as shown in Illustration 71.



REMOVAL OF SECONDARY CRADLE LATCH ACTUATING CABLE

ILLUSTRATION 71

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18.14 Remove the upsensor cable by loosening the nut and removing the sleeve at the top by unscrewing it. Refer to Illustration 72 below.



ILLUSTRATION 72

18.15 Now TWO persons should lift off the table top as shown and keep it aside, refer Illustration 73.



NOTE: THE TABLETOP IS HEAVY AND PROPER SAFETY PRECAUTIONS IS TO BE TAKEN DURING LIFTING AND THIS ACTIVITY SHOULD BE CARRIED OUT BY A MINIMUM OF 2 PERSONS.



REMOVAL OF TABLE TOP

ILLUSTRATION 73

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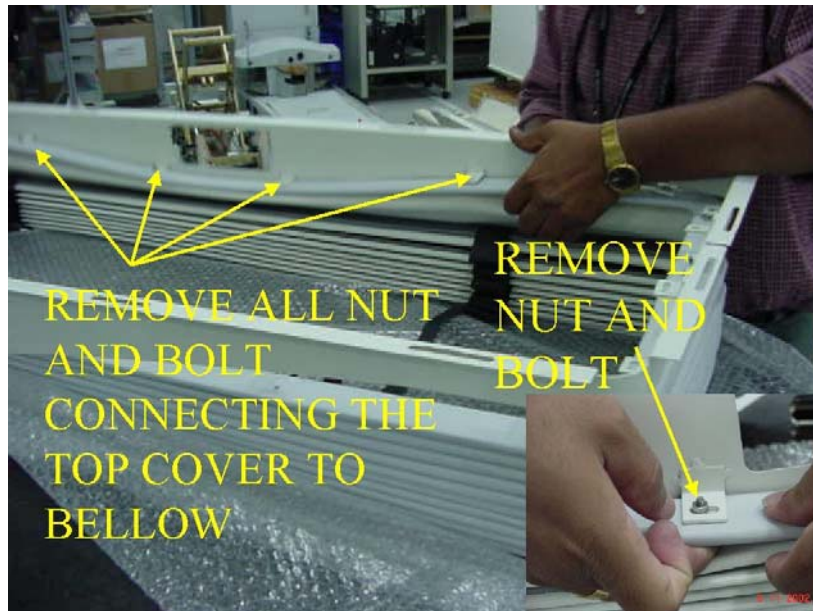
18.16 Next the bellows can be removed out and new bellows can be located as shown, refer Illustration 74.



REMOVAL OF BELLOWS

ILLUSTRATION 74

18.17 The bellows have to now be separated from the top cover by removing the nuts and bolts connecting the bellows, to the top cover refer Illustration 75.



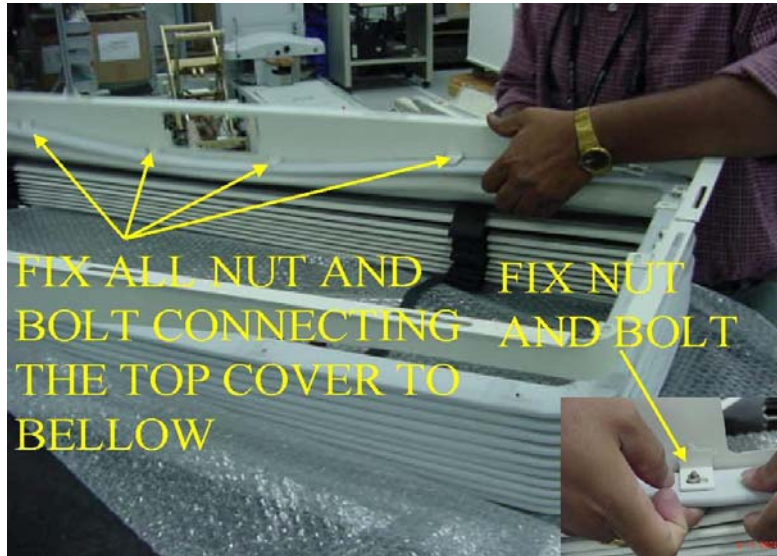
SEPERATION OF BELLOWS FORM THE TOP COVER

ILLUSTRATION 75

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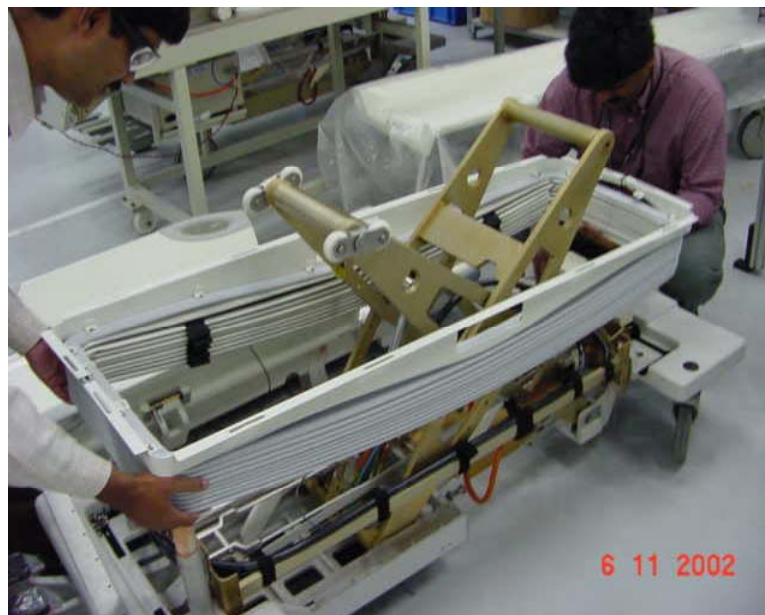
18.18 Now prepare the new bellows by clamping it to the top cover using bolt and nuts, as shown in Illustration 76.



PREPARE NEW BELLOW BY FIXING IT TO TOP COVER.

ILLUSTRATION 76

18.19 Now place the new bellows along with the top cover in position, as shown in Illustration 77. Here ensure the Velcro end of bellows goes over the rear casting. Ref Illustration 78.



PLACING THE NEW BELLOW ALONG WITH TOP COVER IN POSITION.

ILLUSTRATION 77

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- 18.20** Place the table top to original position and insert shaft and lock it with e-clip
Refer to Illustration 66.
- 18.21** Next fix the top guide cover (LEFT AND RIGHT SIDE) as shown in
Illustration 68.
- 18.22** Next fix the 3 cables as explained below.
- 18.23** Connect the flipper cable by using the setscrew on the interlock lever as
shown in Illustration 69.
- 18.24** Connect the cradle latch cable by using the setscrew as shown in
Illustration 70.
- 18.25** Connect the secondary latch cable as shown in Illustration 71.
- 18.26** Connect the upsensor cable as shown in Illustration 72.
- 18.27** Next fix the top cover of bellows to the tabletop refer to Illustration 63.
- 18.28** Now fix the bellows to brackets on casting refer section 3-2 steps 3 and 4
also engage Velcro at rear end of bellows to rear casting refer to
Illustration 78.
- 18.29** Now fix the bottom cover, refer to [section 3-2](#) steps 3.2.5 and 3.2.6.



FASTENING OF BELLOWS

ILLUSTRATION 78

Rev: 4 (Jan 04 2008)

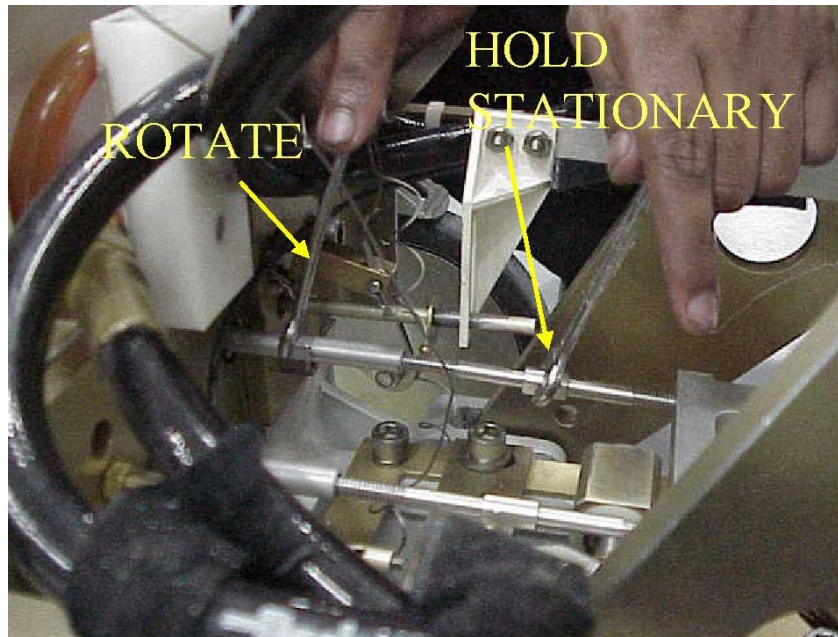
Doc No.2377126

19. PUMP LINK REPLACEMENT.

19.1 Undock patient table, and move it out of MR room.

19.2 Raise table to up position.

19.3 Unscrew the pump rods as shown in illustration 79.

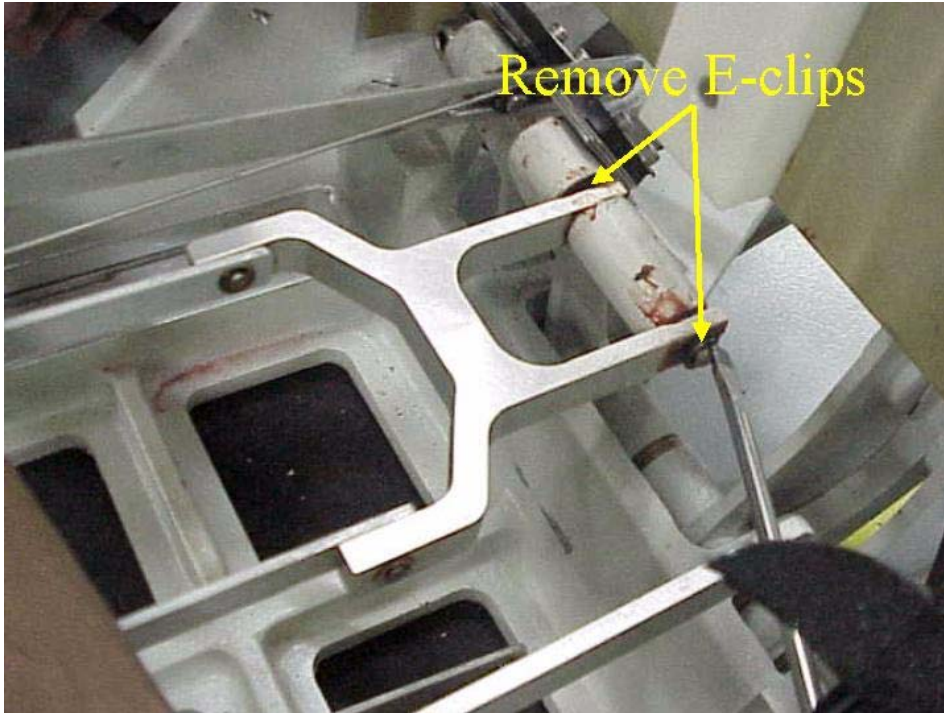


REMOVAL OF PUMP RODS

ILLUSTRATION 79

19.4 Next remove the two E-Clips from the pedal end and remove the shaft at the pedal end. (Refer to illustration 80 below). Also remove the eclips and pin connecting the flat link ,refer illustration 80A.

19.5 Now remove the pump linkage out and keep aside.



REMOVAL OF E-CLIPS FROM PEDAL END

ILLUSTRATION 80

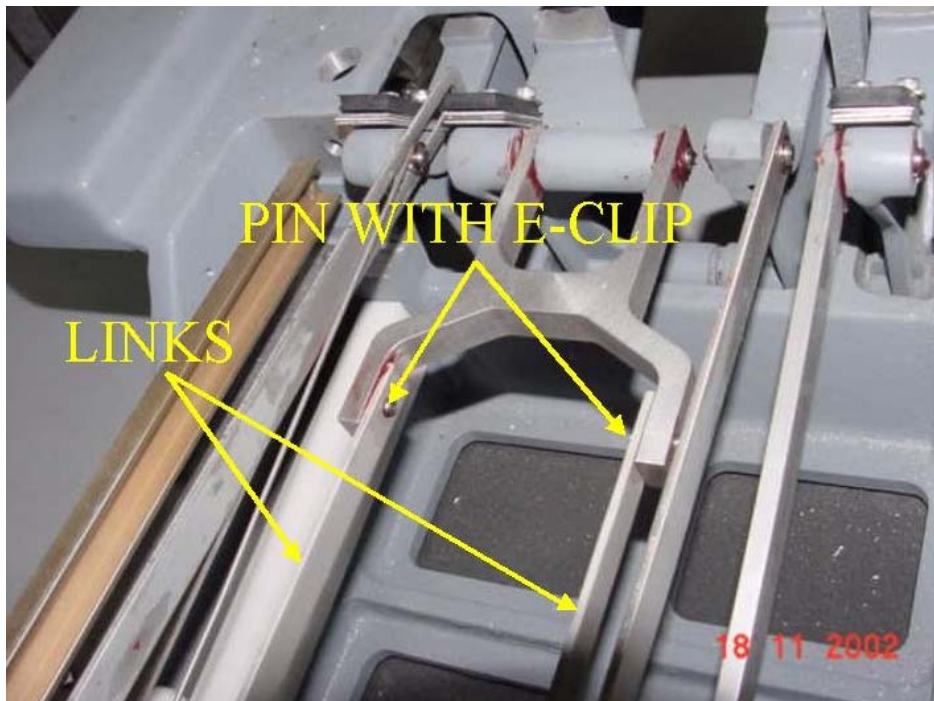
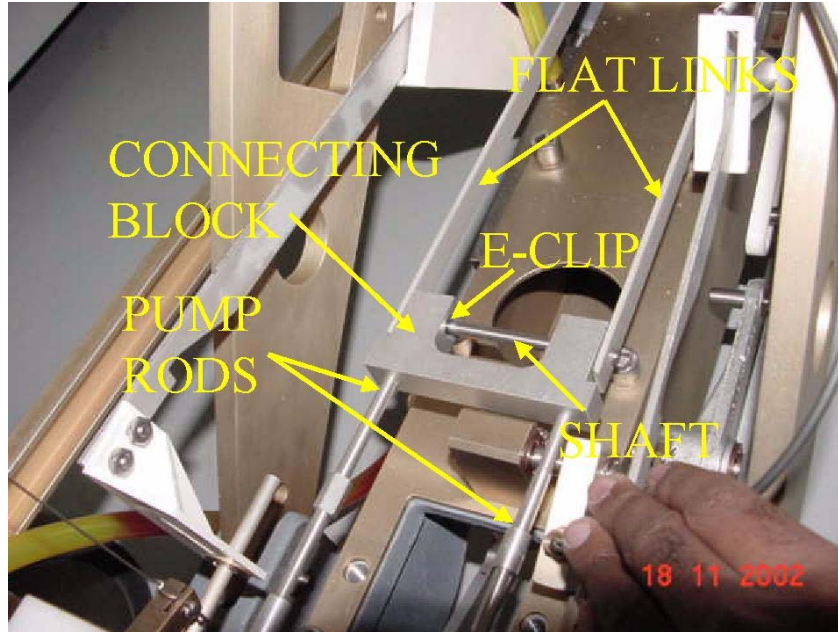


ILLUSTRATION 80 A

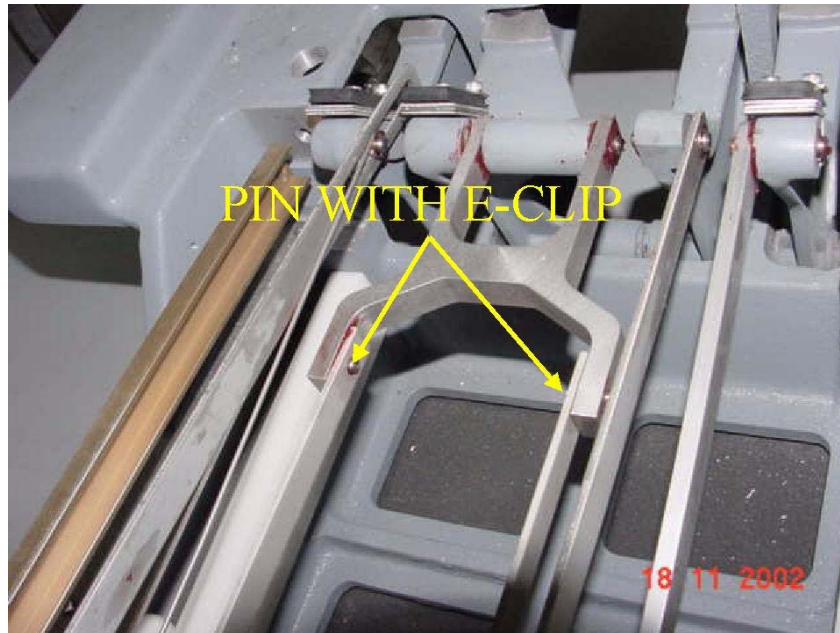
- 19.6** Prepare the new linkage assembly as shown, by connecting the two flat links to the Connecting block as shown in illustration 81, screw in the 2 pump rods to the Connecting block initially itself.



PREPARE LINKAGE

ILLUSTRATION 81

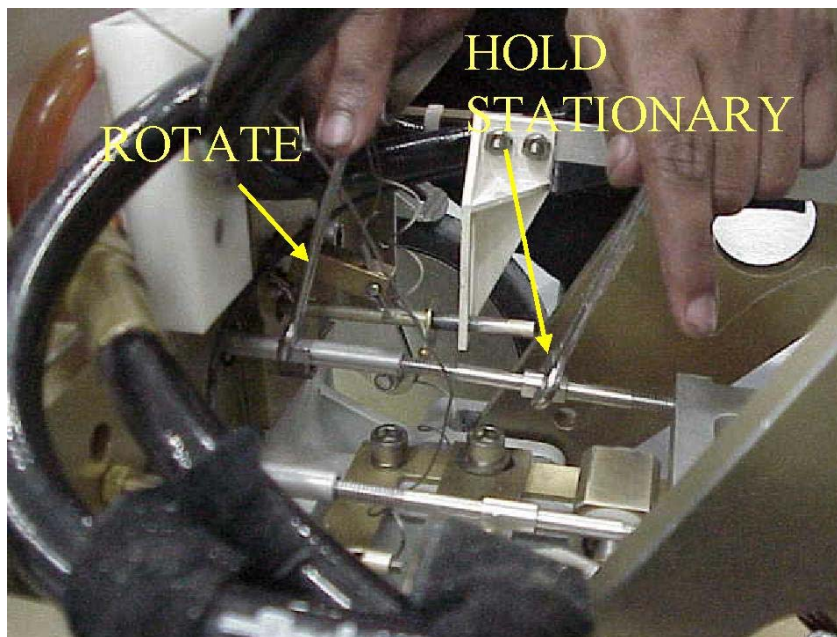
- 19.7** Next insert the linkage through the pedal slot and pass the pedal shaft through the linkage as shown below in illustration 82, insert the E-Clip at the pedal ends.
- 19.8** Connect the flat links to the pump linkage on the pedal using the pins and e-clips, refer illustration 82 and illustration 80.



PUMP LINKAGE AT PEDAL END

ILLUSTRATION 82

19.9 Next connect the pump rods to the pump using the threaded sleeve, as shown in illustration 83. And connect the other end to the pedal using the pedal shaft and e-clip. Refer illustration 80.



CONNECTING THE PUMP RODS USING THE THREADED SLEEVE

ILLUSTRATION 83

20. SPRING BOOSTER REPLACEMENT

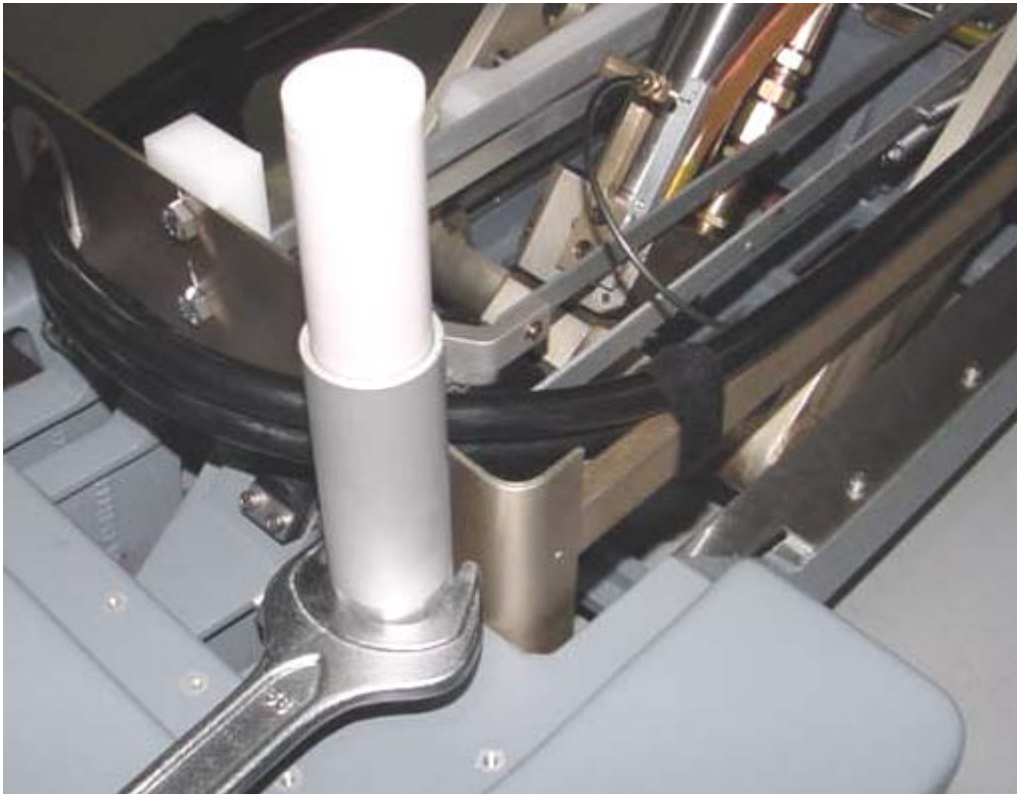
20.1 Undock patient table, and move it out of MR room.

20.2 Raise table to up position.

20.3 Move the bellows to service position refer to [section 3-1](#) .

20.4 Unscrew the booster assembly as shown in illustration 84 below.

20.5 Replace with new assembly (2351466) as shown below, Apply Loctite 242 to the new spring booster housing threads before assembling it into the casting. Move bellows down, Refer [section 3.2](#)



REMOVAL OF SPRING BOOSTER.

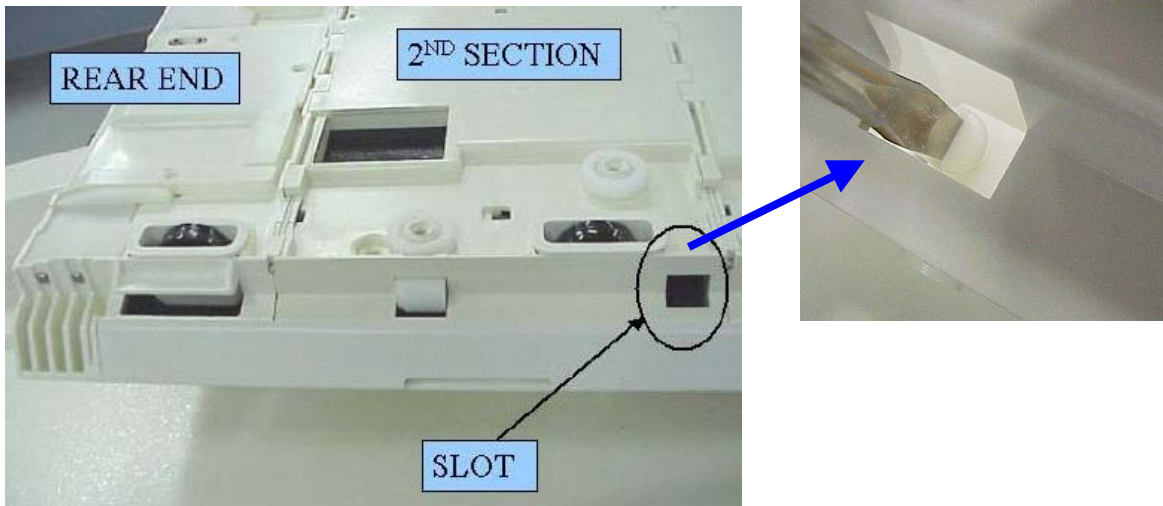
ILLUSTRATION 84

21. CRADLE SIDE LOCK ADJUSTMENT

21.1 Undock patient table, and move it out of MR room.

21.2 Invert the cradle and place on a flat surface

21.3 Loosen the Delrin screw shown in Illustration 85.



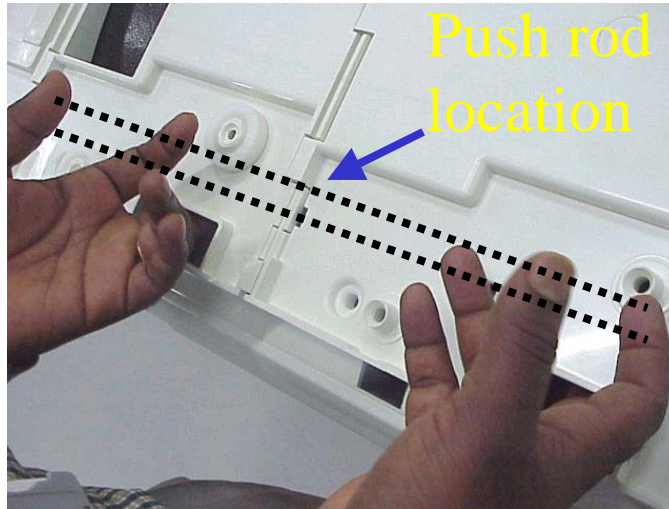
**CRADLE SIDE LOCK
ILLUSTRATION 85**

21.4 Remove the wheel housing nearest to the Delrin lock as shown in illustration 86.

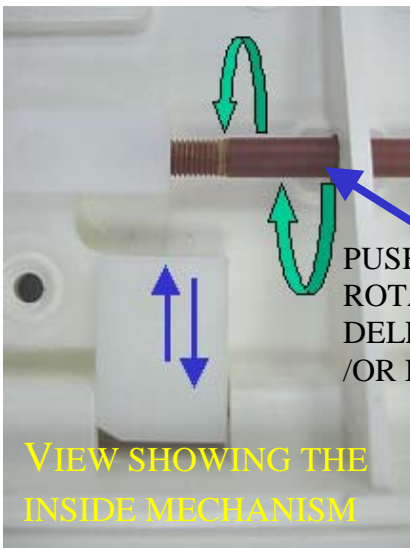


**REMOVE WHEEL HOUSING
ILLUSTRATION 86**

21.5 Insert Finger to reach the Push rod and rotate the push rod using finger, so that the Delrin lock length increases to 10mm. (refer illustration 87 .)



**ROTATE THE PUSH ROD
ILLUSTRATION 87**



PUSH ROD CAN BE
ROTATED TO MOVE
DELRIN LOCK OUTSIDE
/OR INSIDE.

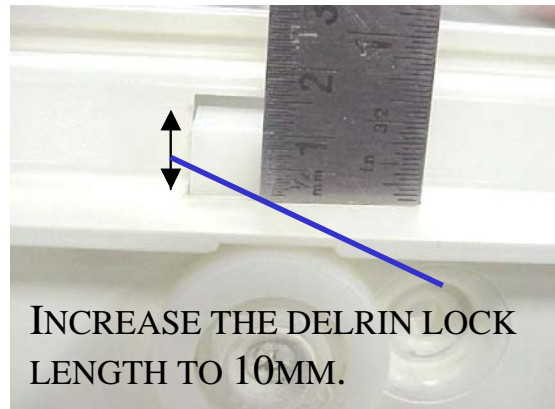


ILLUSTRATION 87A

21.6 Push the Delrin screw block to tension the tygon tube inside and under tension lock the Delrin screw. As shown in illustration 88,& 88A

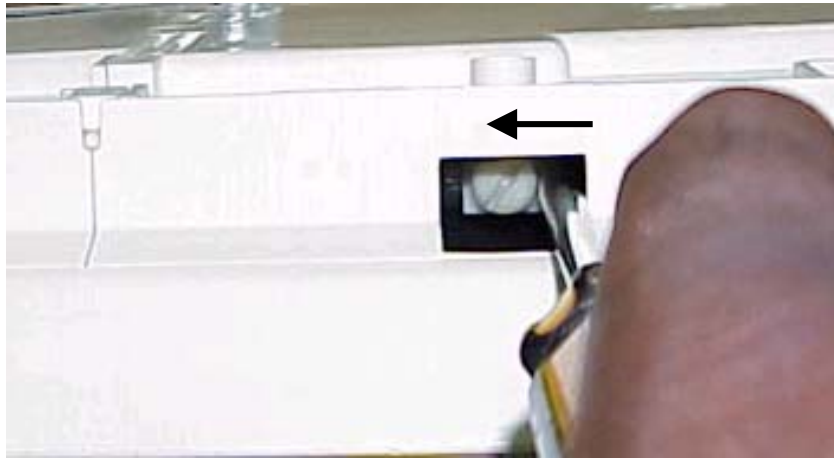


ILLUSTRATION 88

Insert the screwdriver and push the delrin screw block



ILLUSTRATION 88A

Keeping the delrin scwblock in push condition loosen the delrin screw. Increase the tension of the tygon-tube spring by further pushing the delrin screw block and then tighten the delrin screw.

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21.7 Place cradle back on table and check if it is locking, by depressing the Push rod at front of cradle by 4 mm and slide cradle out and check if lock is releasing smoothly. Refer illustration 89

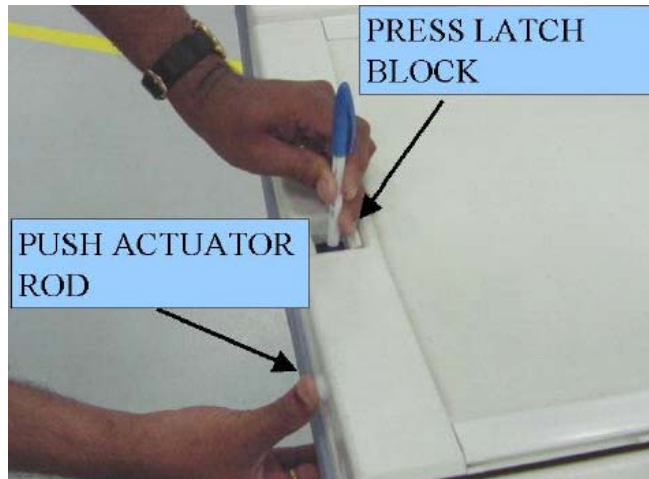


ILLUSTRATION 89

22. VERTICAL DRIVE SCISSOR ASSEMBLY REPLACEMENT:**22.1 Scope:**

These instructions have to be followed for replacement of the **Vertical drive Scissor Assembly** in Signalite and HDe table in the field. A requirement of replacing the Vertical Drive Scissor Assembly is expected to be a rare instance and the FE shall consult with MR Engineering prior to making a decision to replace.

**CAUTION !!**

SERVICE OF THE TABLE SHALL BE DONE OUT OF THE MAGNET ROOM. DISASSEMBLY TO BE DONE WHEN TABLE IS IN UP CONDITION

**WARNING !!**

PERSONAL INJURY POSSIBILITY! WHEN PERFORMING MAINTENANCE OR REPLACEMENT OF PARTS ON THE TABLE IN ITS UP POSITION, ENSURE THAT THE SAFETY LOCK BAR IS IN PLACE (SEE STEP-4). SEVERE PERSONAL INJURY CAN OCCUR IF TABLE IS ACCIDENTALLY LOWERED DURING SUCH SERVICE ACTIVITY. ALSO DO NOT LOAD THE TABLE DURING MAINTENANCE.

22.2 Tools list:

Basic Tools required



- Plastic Hammer
- Screwdriver
- Short screwdriver
- 3/16 Punch
- 1.8 Small Punch
- Torque wrench, 10mmsocket
- 9/16,18/19 Spanners
- Nose Pliers
- 5,5/32,3,7/64,3/32,2 mm Allen Keys

22.3 New Scissor Assembly Replacement FRU KIT:

Part no: 5189056 Is the Fru Kit Number consists of

- 1) 5189723: Scissor Assembly FRU Packaging box**
- 2) 5189045: FRU Packaging kit for Cable Sleeve and Scissor Parts**
- 3) 5189088: Scissor Assembly FRU**



Refer Drawing 5189088 ADW for above parts.

22.4 Disassembly Procedure:

STEP-1: Remove Cradle Assembly from Table Top refer Section 4

STEP-2: Remove Arm boards.



Use 3/32 Allen key to remove grub screw



Slide the pin and remove the arm boards of both the side

STEP-3: Remove Bottom Covers and Lift the bellows. Refer Section 3.





Remove the bottom covers and lift the bellows as shown

STEP-4: Engage the safety latch bar. Refer Section 5

Refer steps below for procedure of engaging the safety latch bar.

Unhook Safety latch bar by pulling the lock pin knob outward, (Refer Illustration 4.1& 4.2), and engage it towards the casting, then lower table by Pressing the down pedal until lock bar fully supports table top. (Refer Illustration 4.3& 4.4).

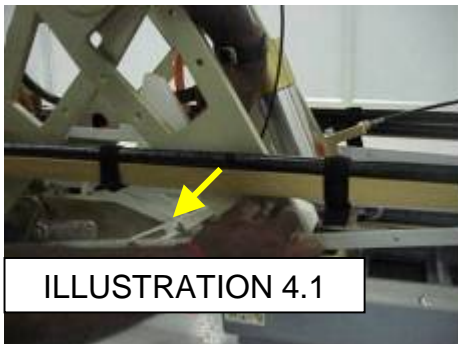


ILLUSTRATION 4.1



ILLUSTRATION 4.2

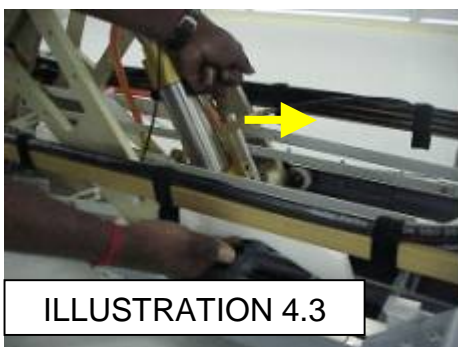


ILLUSTRATION 4.3

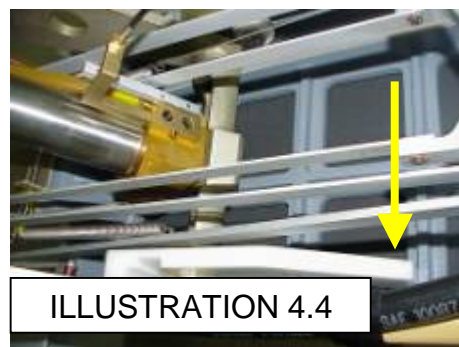


ILLUSTRATION 4.4



Caution: Ensure Safety latch bar fully engaged to cast base as shown in illustration 4.4!!

STEP-5: Remove Flipper, latch and centre pin cable inner wires from respective mechanisms.



Remove the knot in the inner wire of the cable as shown and make the cable inner wire free.



Loosen the grub screw by Allen key and pull the wire using nose player



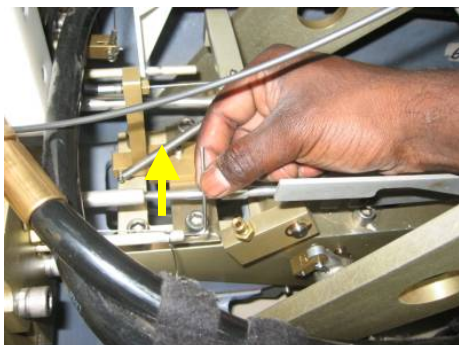
5.1) Remove latch inner cable wire from Link lever as shown above by loosening Grub screw and live the cable assembly as it is.



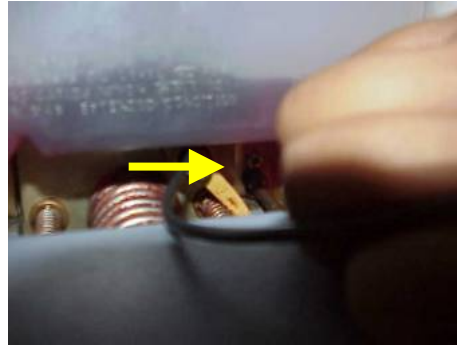
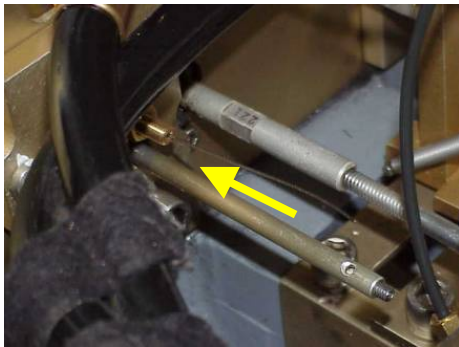
5.2) Remove latch cable from dock lever mechanism by using Allen key



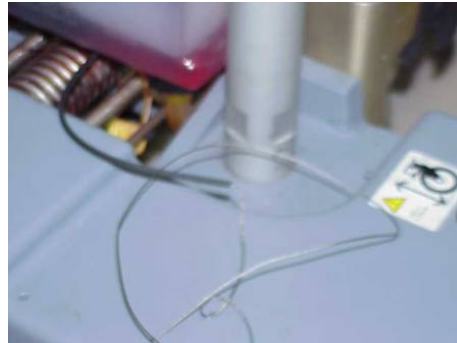
Remove the inner wire of the cable as shown and leave the cable assembly as it is



Remove centre pin cable as shown above by using Allen key



Pull the inner wire from back side as shown

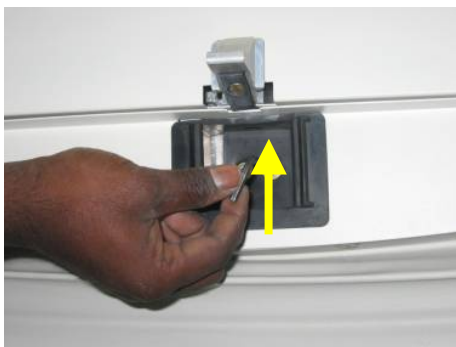


Leave the cable assembly as it is.

STEP-6: Remove latch support cover and latch support Assembly from tabletop



Put the bellows down



Remove latch support cover from tabletop by unscrewing the Allen screws



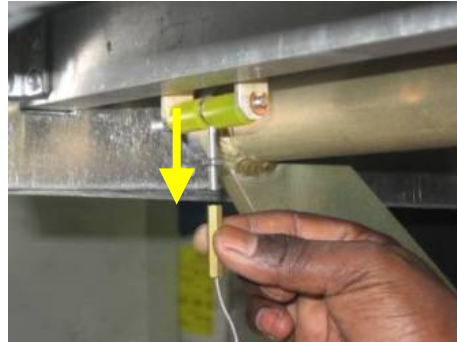
Remove latch support assembly as shown above

STEP-7: Remove Bellows from tabletop



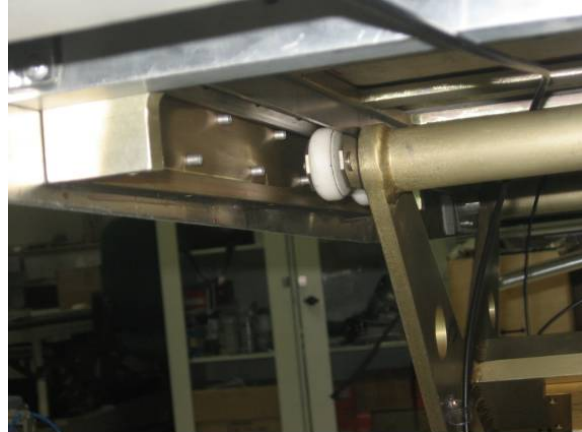
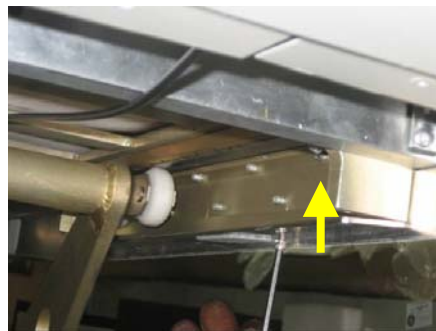
Remove bellows as shown by removing the screws from tabletop and make the bellow to rest on the casting.

STEP-8: Remove up indicator cable from tabletop.



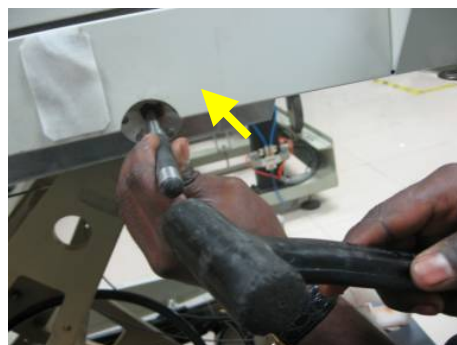
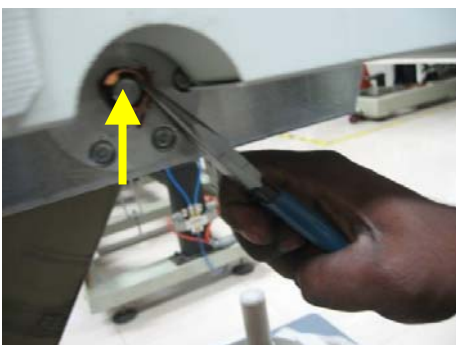
Remove the up indicator cable as shown.

STEP-9: Remove Top Guide cover plates from tabletop.



Remove top guide cover plates as shown above by removing the Allen screws

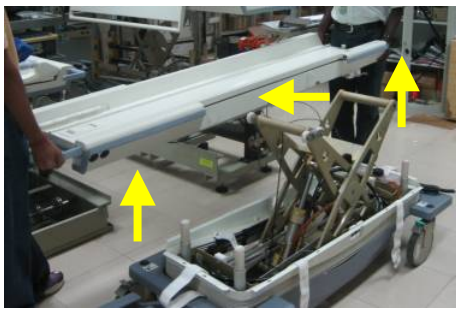
STEP-10: Remove Pin Scissor Long from tabletop.





Remove cir clip and slightly tap the pin scissor long on the side having larger face or without chamfer and pull the scissor pin as shown.

STEP-11: Remove the tabletop and bellows from Table base assembly.

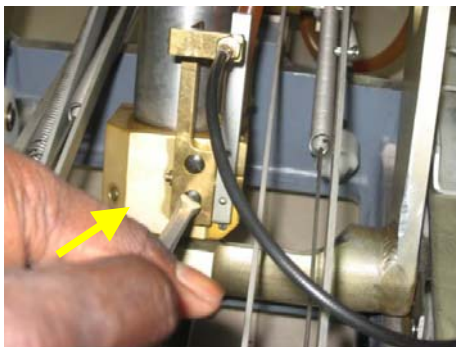


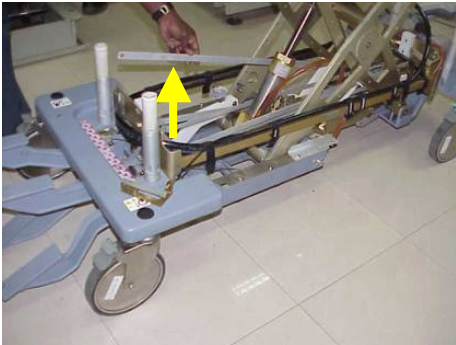
Lift the tabletop and bellows and keep it in safe place.



**Note: 1) Do not topple the tabletop and handle it carefully.
2) Make sure bellows did not get damaged during the removal and storage.**

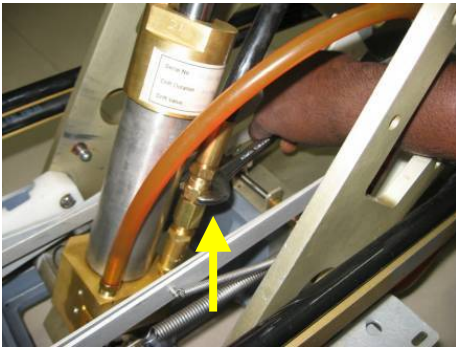
STEP-12: Remove Down Release assembly from cylinder.





Remove total down release assembly from cylinder and keep the whole assembly along with cable assembly without disturbing

STEP-13: Remove Hose connector from cylinder and put safety cap to hose connector.



Unscrew the hose connector knob as shown with spanner and make sure you will have cotton waste while doing this.



Avoid spillage of hydraulic oil by putting safety cap to the hose connector

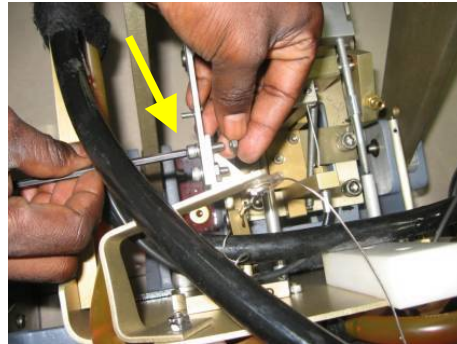
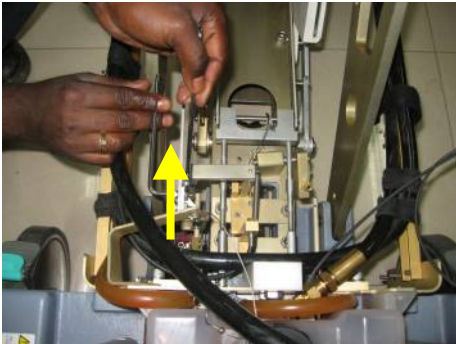


Caution!!!! Avoid spillage of hydraulic oil as per as possible quickly replace the safety cap to ensure less oil loss and fully tighten the safety cap



Keep the hose connector aside as shown

STEP-14: Remove down release link lever

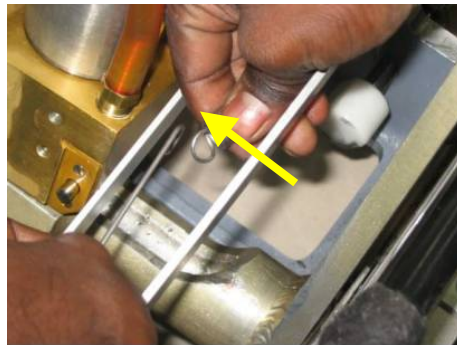
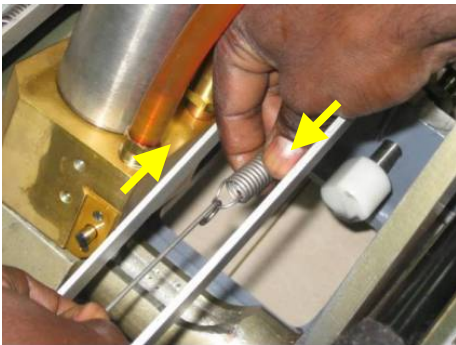
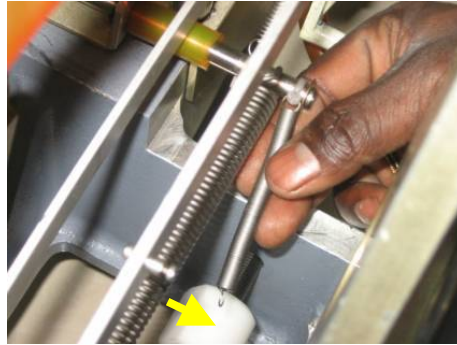
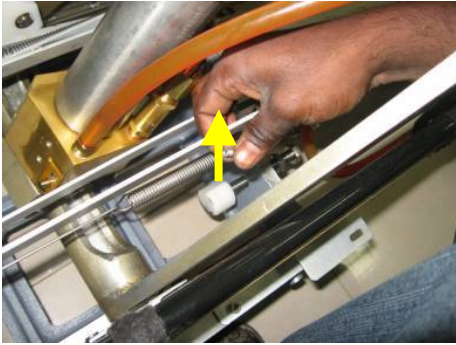


Remove down release link lever as shown by removing Allen screws



Down release link will be free as shown, keep the link lever and the related parts in safe place.

STEP-15: D-link all the springs of link mechanisms

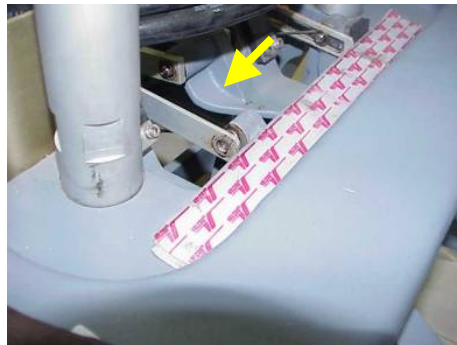
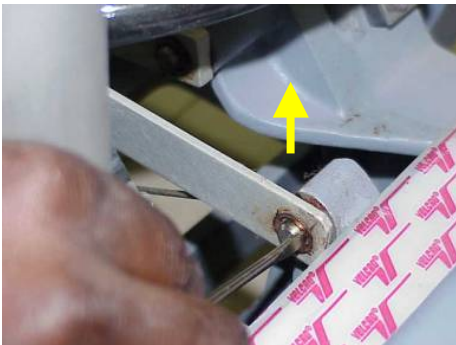


D-link all the mechanism springs as shown.

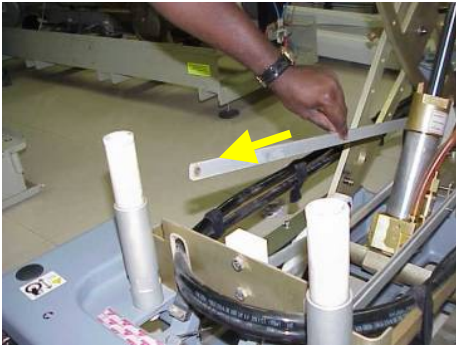


D-link all the mechanism springs as shown

STEP-16: Remove the undock link.

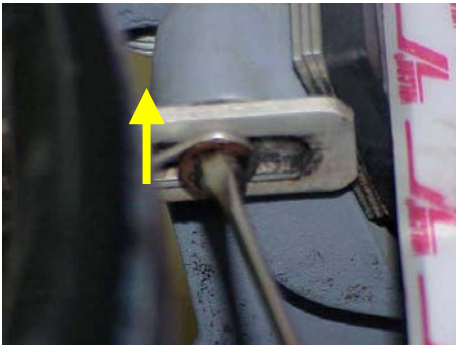


Remove the cir clip and push the link as shown



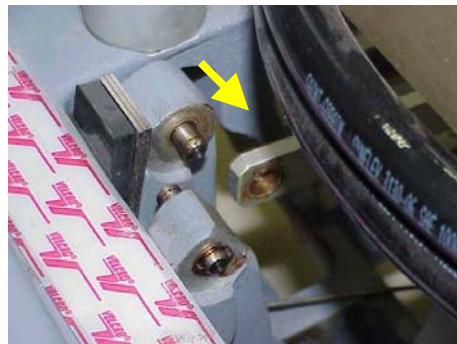
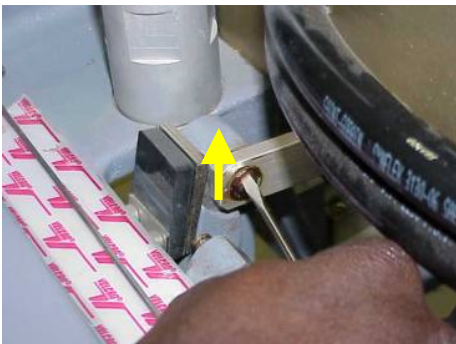
Remove the link as shown above

STEP-17: Remove the down release link.

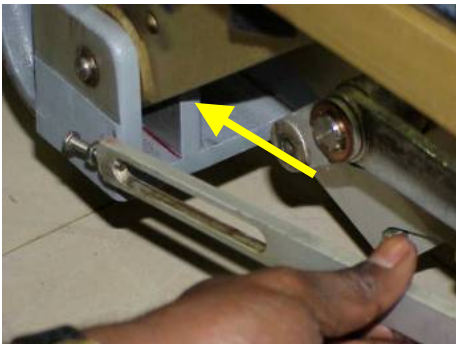
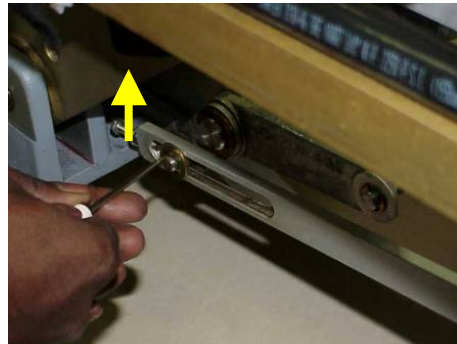


Remove the down release link as shown by removing cir clip and the spring holding wire.

STEP-18: Remove the dock link.

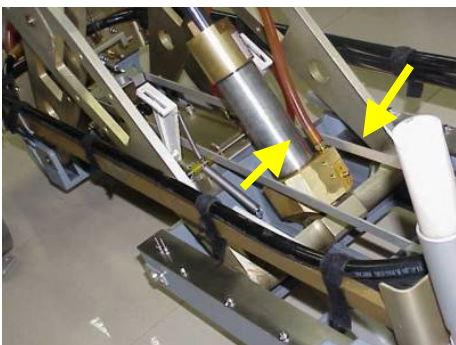


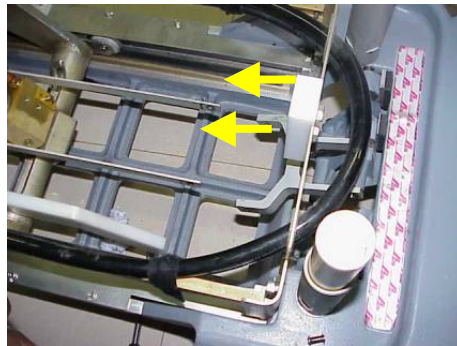
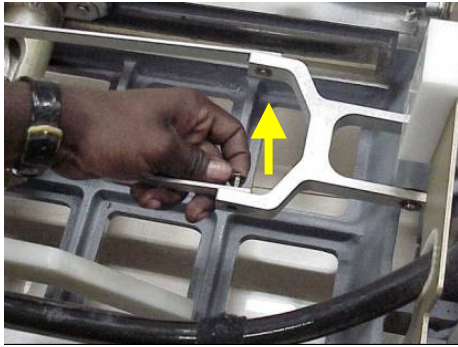
Remove the Pedal side of the dock link as shown by removing cir clip



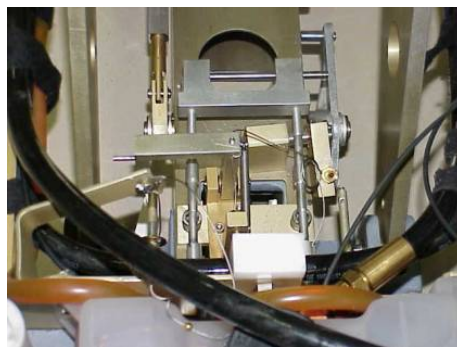
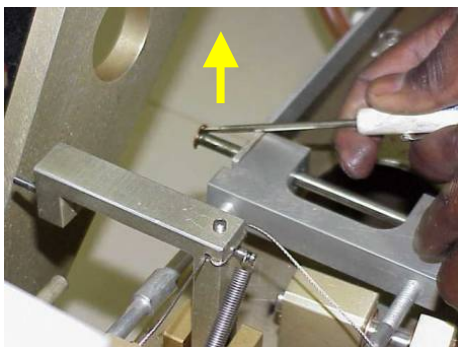
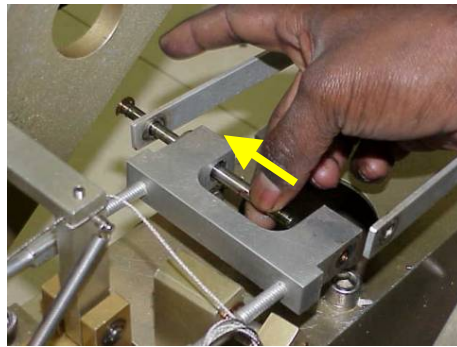
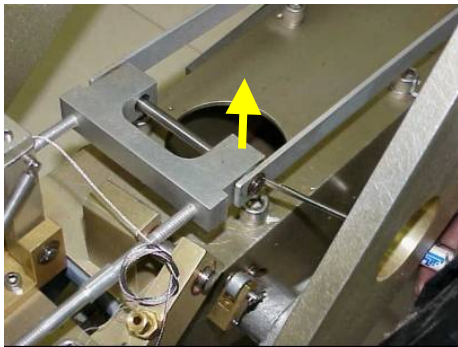
Remove cir clip, washer and bush of front side as shown above to remove the dock link from front side of lower base assembly.

STEP-19: Remove the up pedal links.



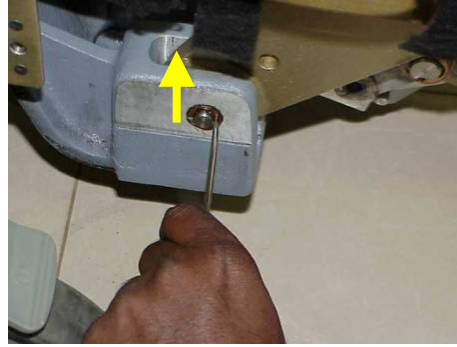
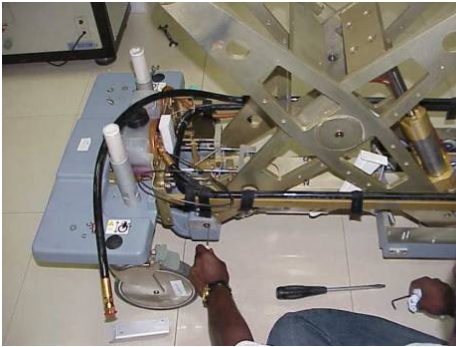


Remove cir clips and pins as shown to remove the rear side of the up pedal link.

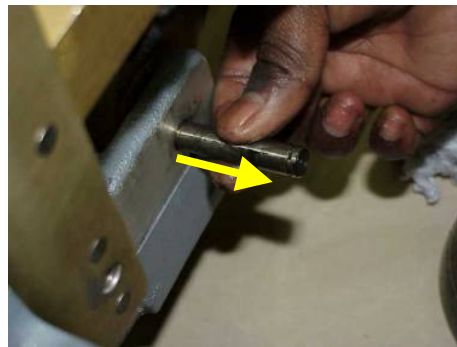
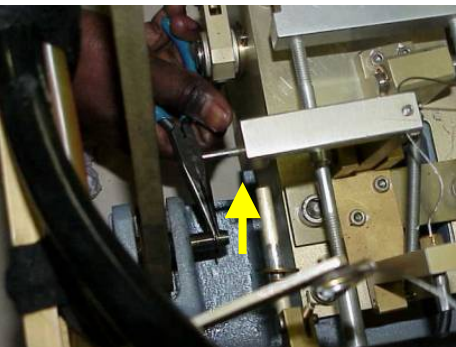
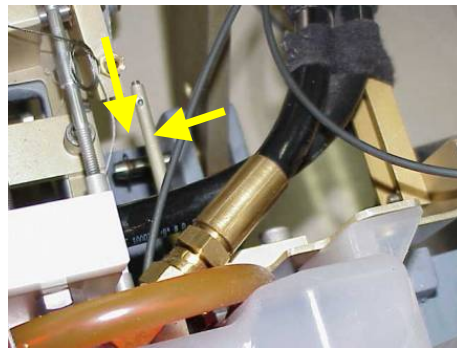
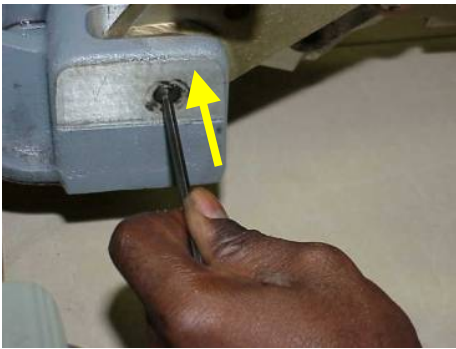


Remove front side of up pedal links by removing both the cir clips from the pin

STEP-20: Remove the up Bottom scissor pins.

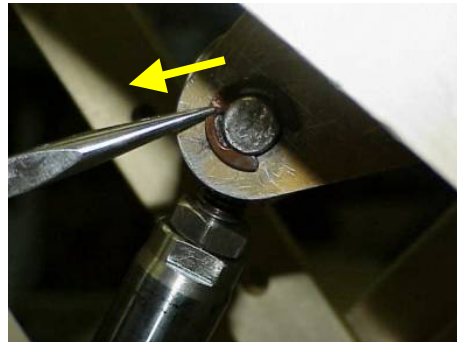
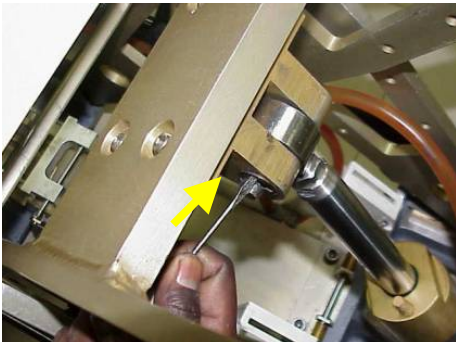


Remove outer cir clip as shown

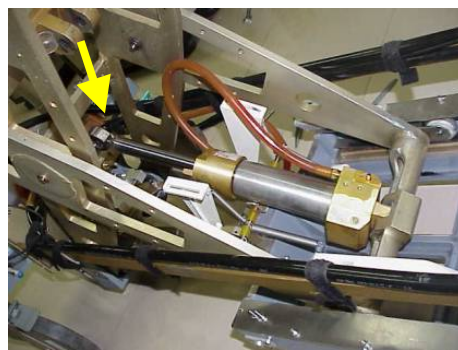
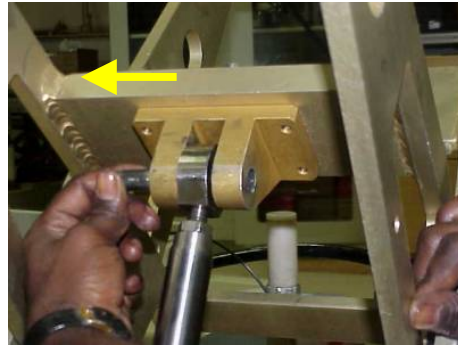


Push the pin remove the other cir clip and take out the scissor pins from both the side.

STEP-21: Remove the top-mounting pin of the cylinder.

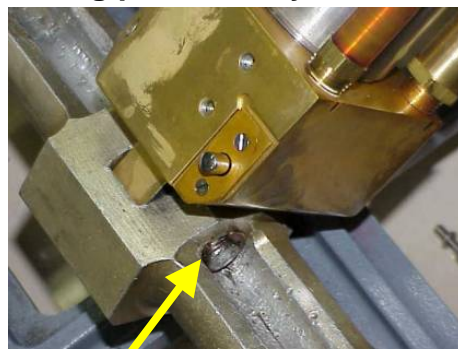
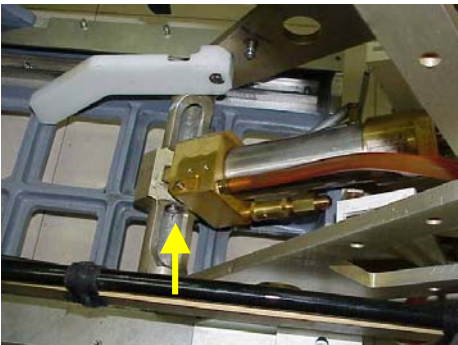


Remove the both the side cir clips of top mounting cylinder pin

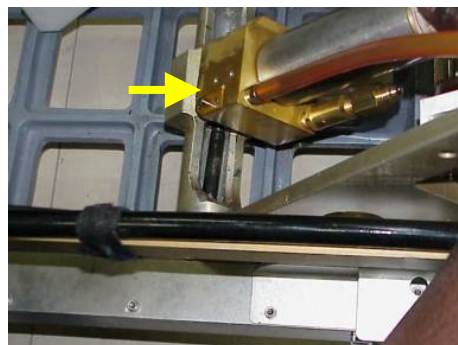
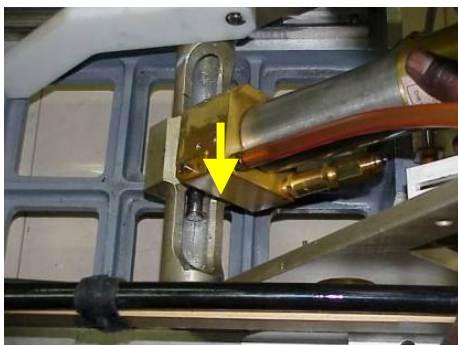


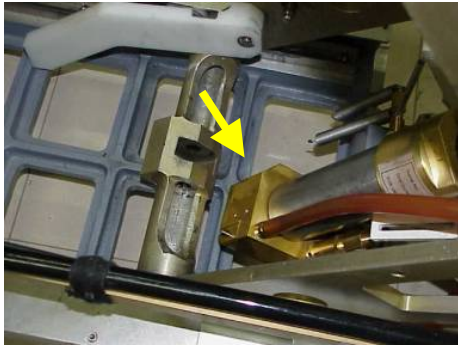
Gently tap the pin using rod and plastic hammer as shown and remove the top mounting pin cylinder and lay the cylinder as shown.

STEP-22: Remove the bottom-mounting pin of the cylinder.



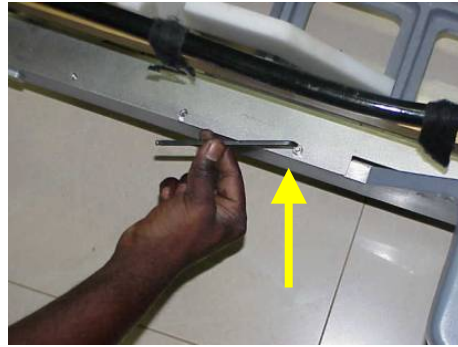
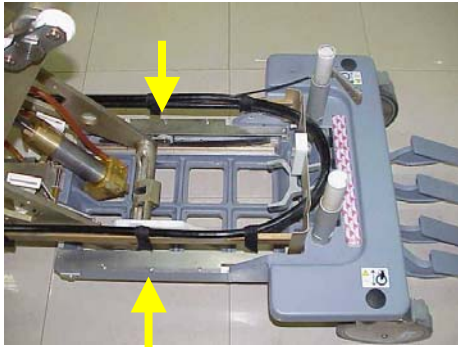
Remove the cir clips from both the side of the bottom-mounting pin



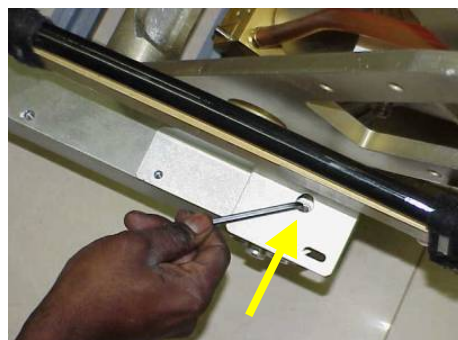


Gently tap the pin-using rod and remove the bottom mounting pin cylinder and lay the cylinder as shown.

STEP-23: Remove the bottom-plate covers.



Remove all the screws to remove the bottom plate covers.



These are the steps to be followed to remove the bottom plate covers.

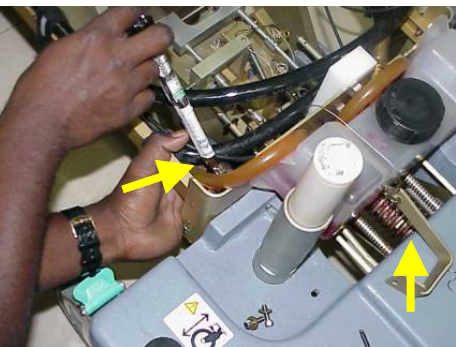
STEP-24: Loosen the support bars by removing M10 nuts and washers.



Use torque wrench with 10mm socket to remove the M10 nuts and washers to remove support bar on pedal side of the table.

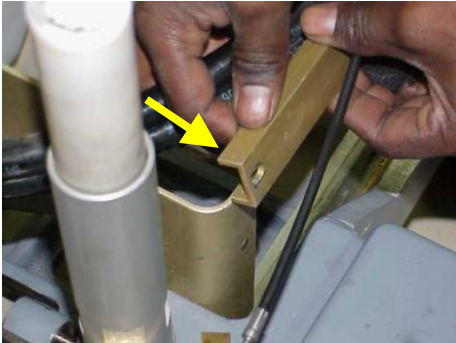


Remove the M10 nuts and washers from the front side to loosen the supporting bar



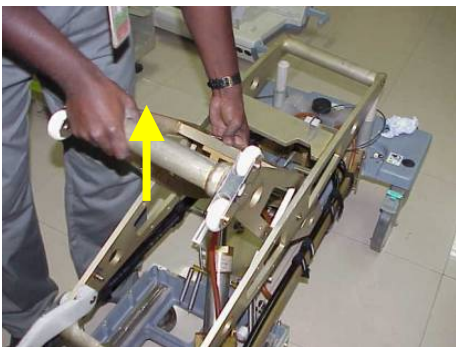
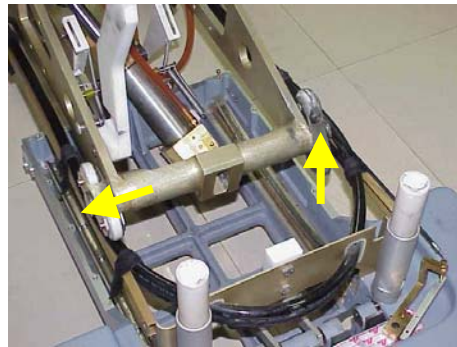
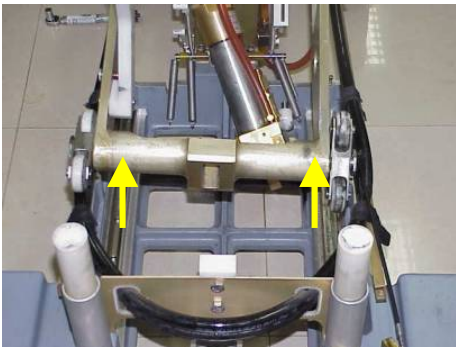
Remove up indicator cable lever to reach the other side of the M10 nut to loosen supporting bar in front side of table



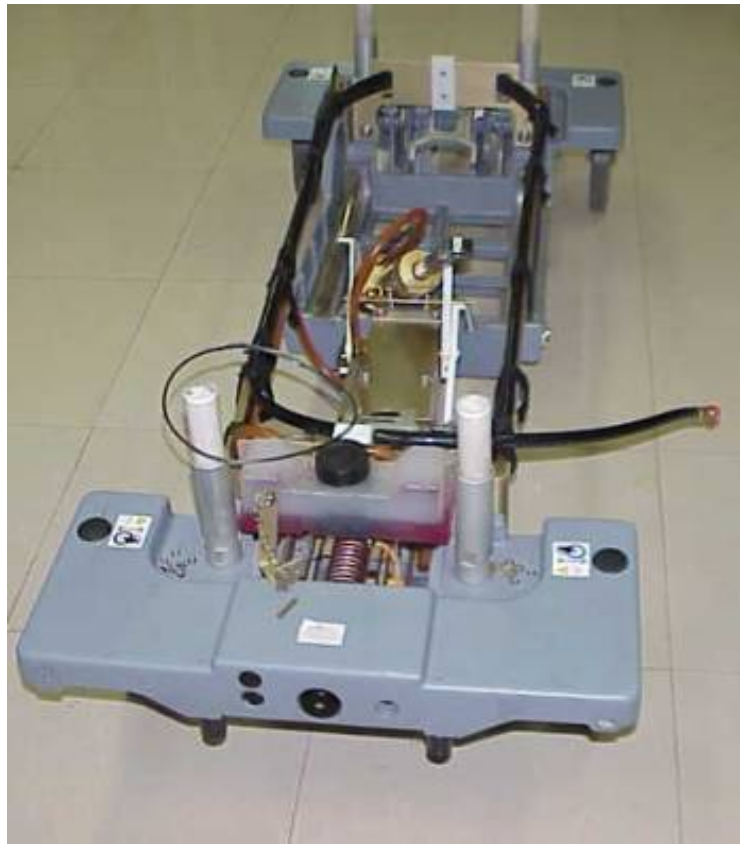
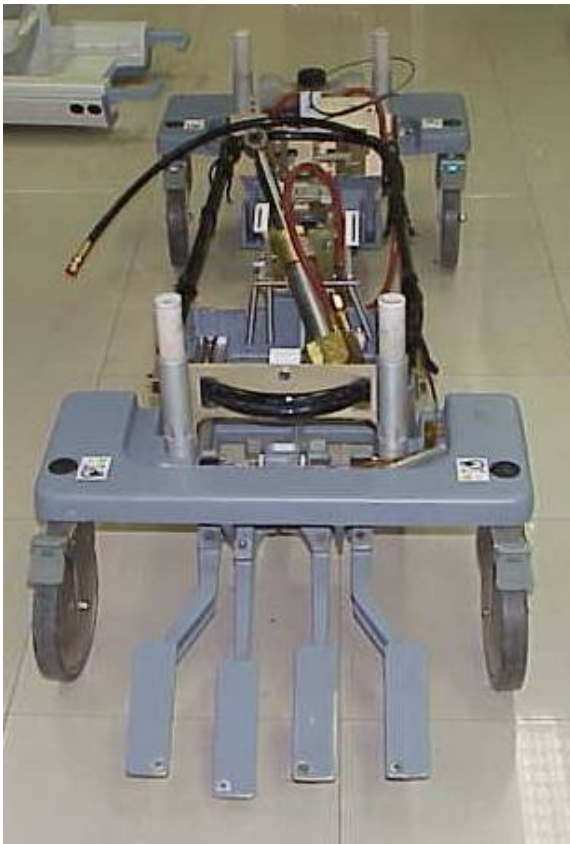


Push the support bar on either side of the structure as shown on the pedal side only.

STEP-25: Remove the Scissor assembly



Remove the Scissor assembly as shown by lifting the assembly simultaneously On either side of the scissor making clearance on the pedal side of lower base assembly



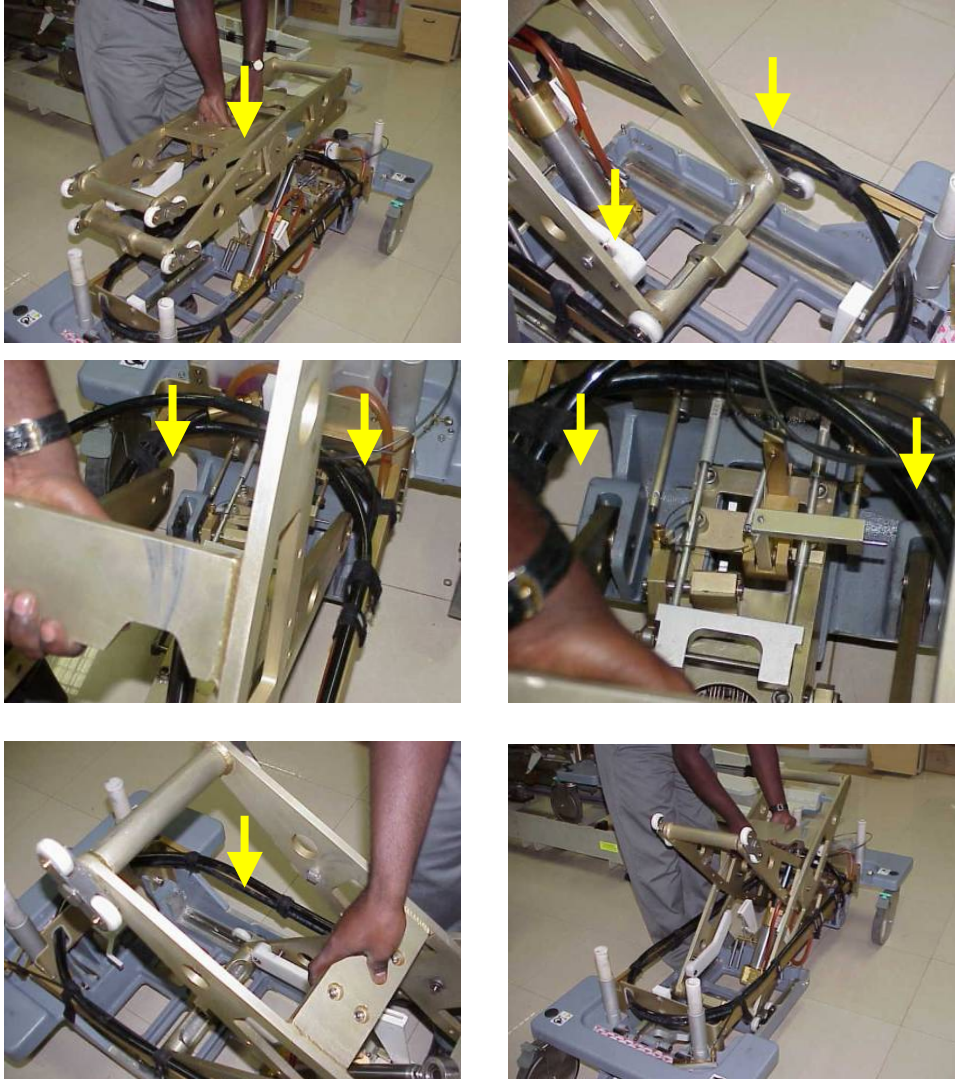
Lower base assembly after removal of Scissor assembly



NOTE: Clean the guide way of scissors and remove dust before assembling new Scissor assembly.

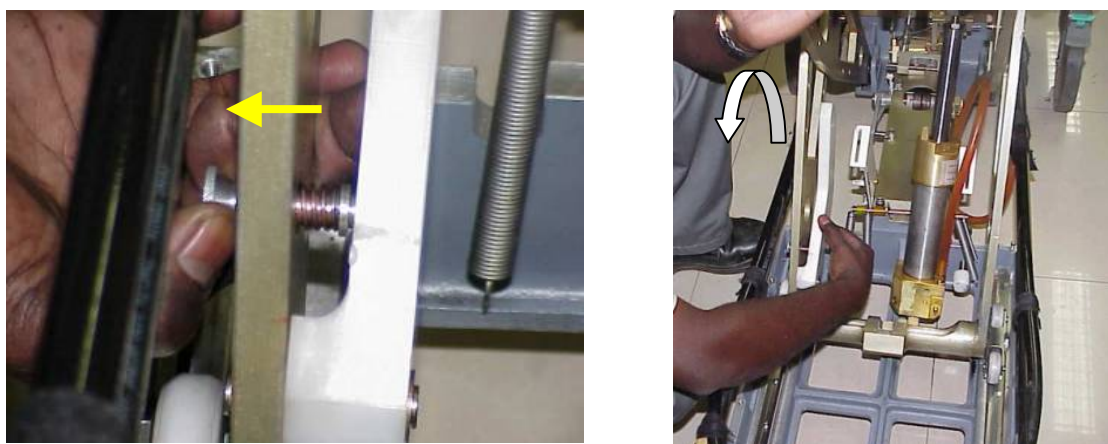
22.5 Assembly Procedure:

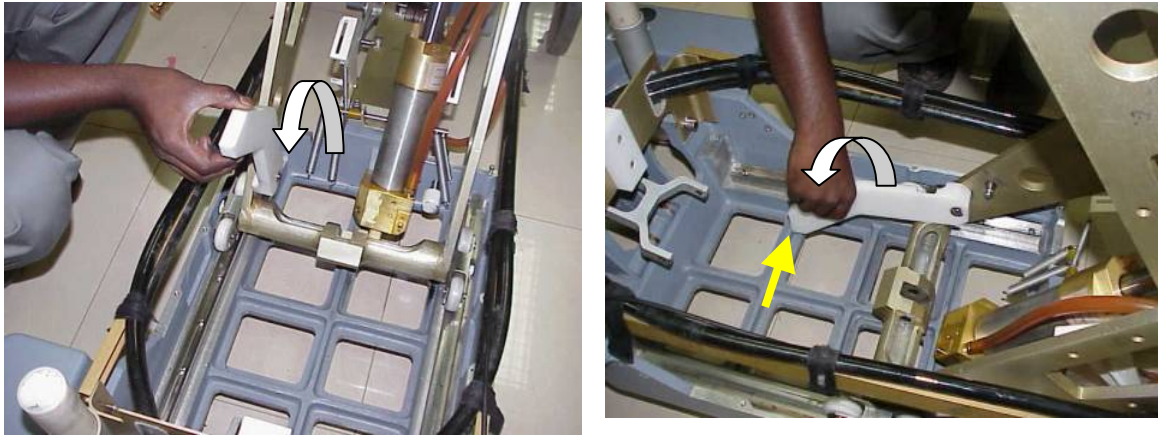
STEP-1: Assemble New Scissor assembly to Lower base



Put back the new scissor assembly as shown above sequence.

STEP-2: Place the Safety block in lock position to avoid injuries



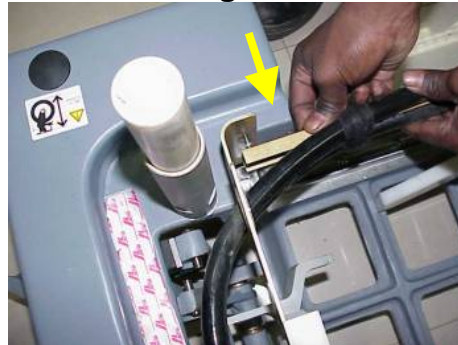


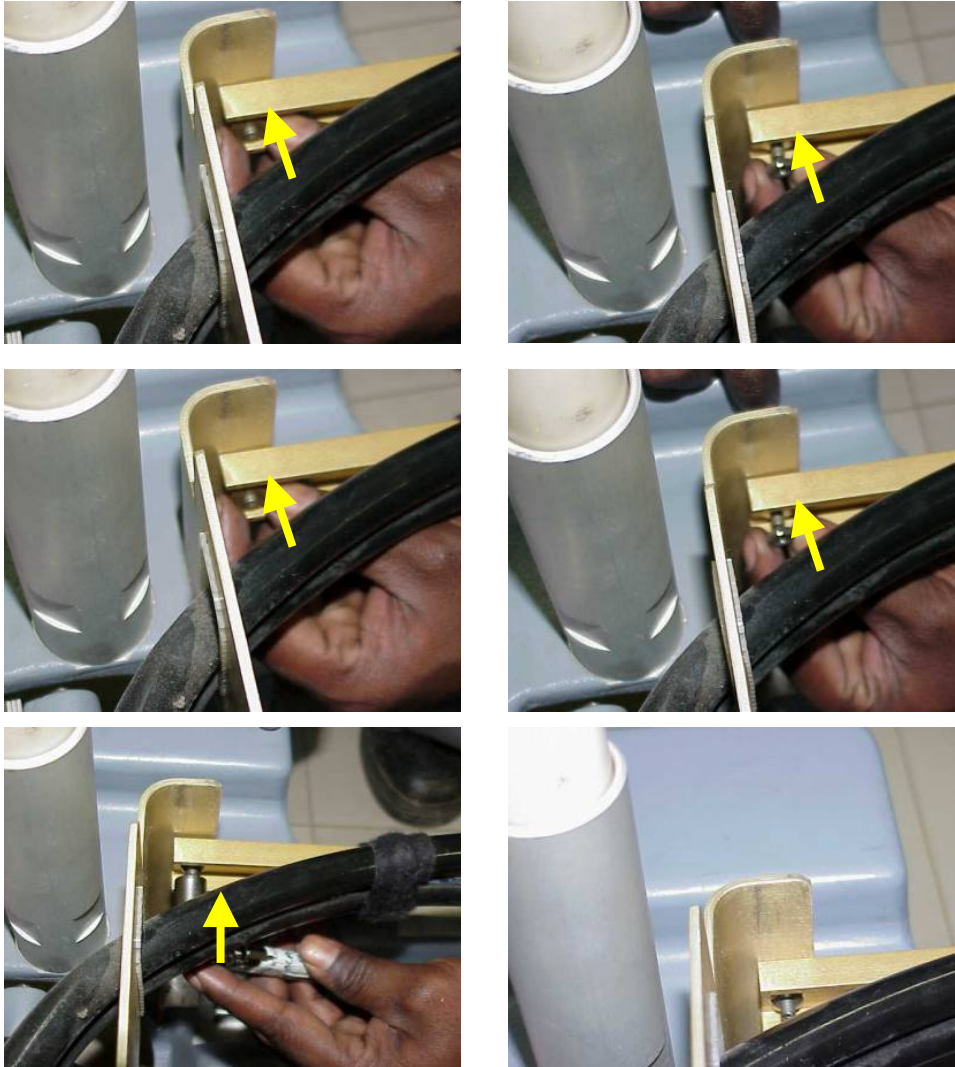
Pull the knob and bring down the safety block by holding scissor assembly as shown in above sequence and lock the safety block against the casting.



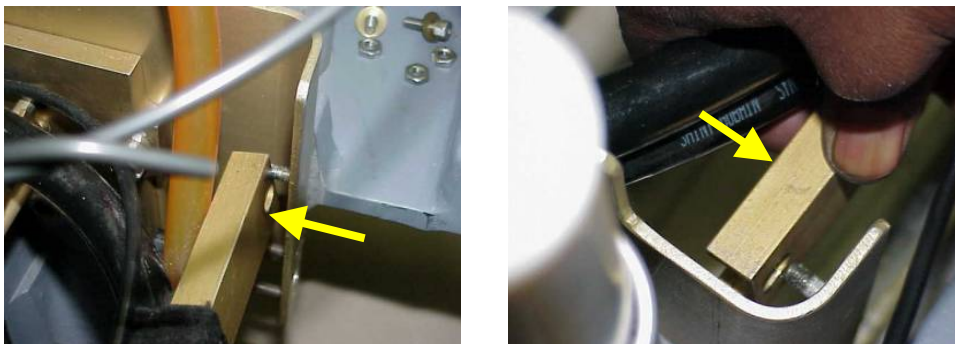
Caution!!
Ensure proper locking of safety block against the casting wall before proceeding into other assembly

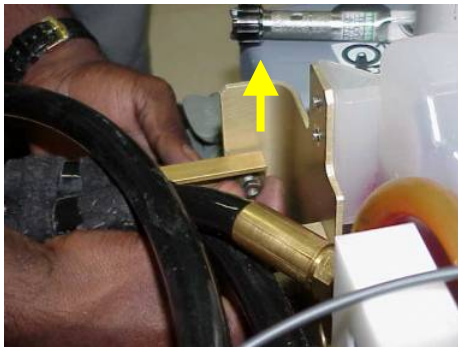
STEP-3: Assemble the Support bars in their original Position.





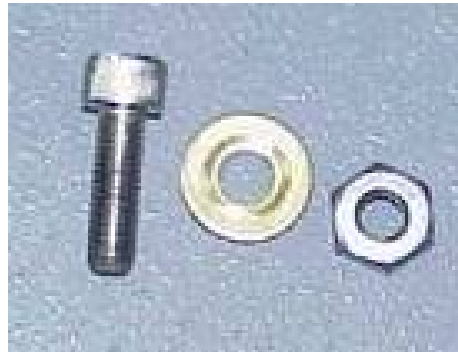
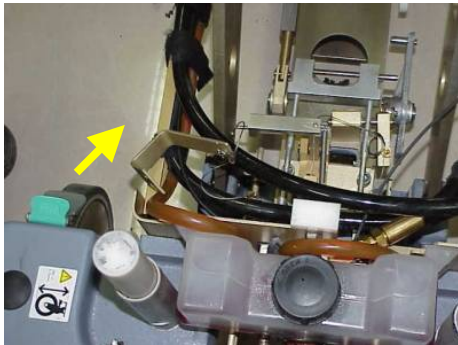
Assemble the pedal side of the supporting bar in the same sequence as shown above use the Torque wrench and M10 bit to tighten the nuts.



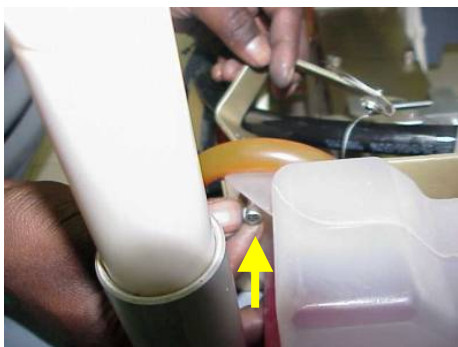


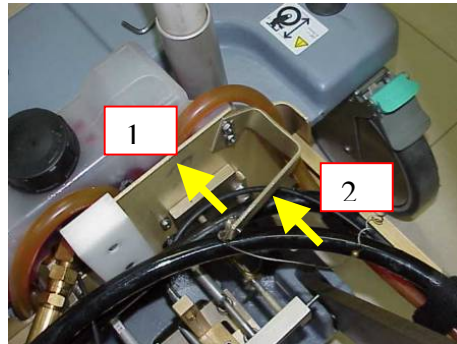
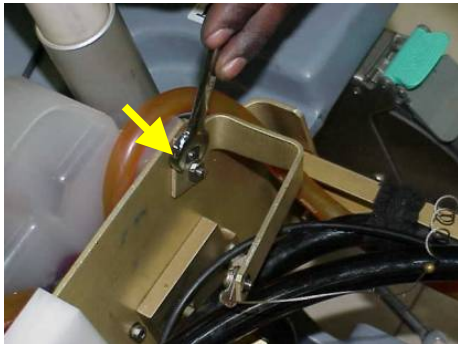
Assemble the front side of the supporting bar in the same sequence as shown above use the Torque wrench and M10 bit to tighten the nuts after putting the washer and nut.

STEP-4: Assemble the up indicator cable lever to the support structure.



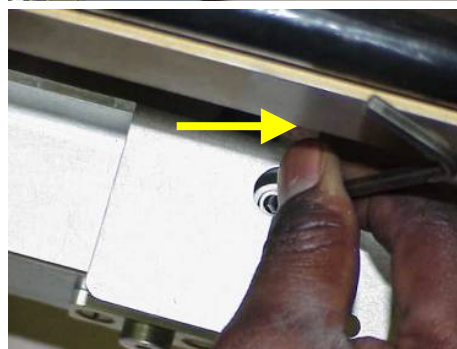
Components to be used to assemble up indicator cable lever





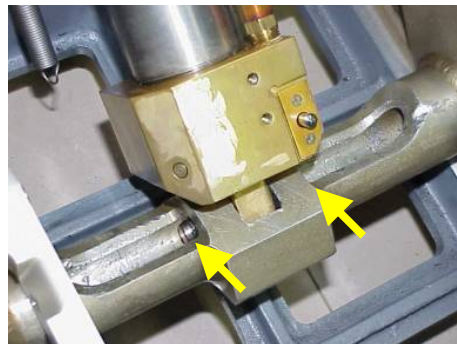
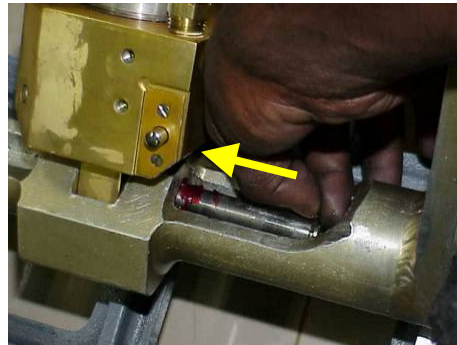
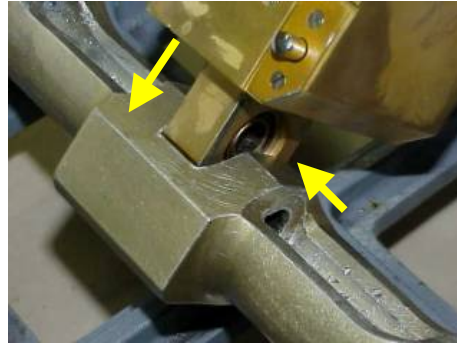
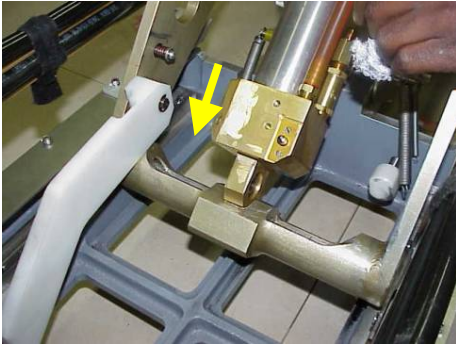
Assemble the up indicator lever using the Allen screws and nuts Using Allen key and spanner and maintain the orientation of the up indicator lever as shown in last picture and maintain edge 1 parallel to edge 2

STEP-5: Assemble the Bottom cover plates to lower base assembly.

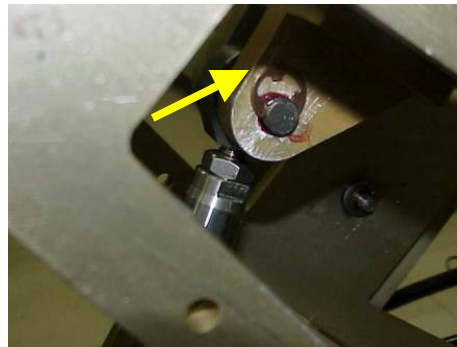
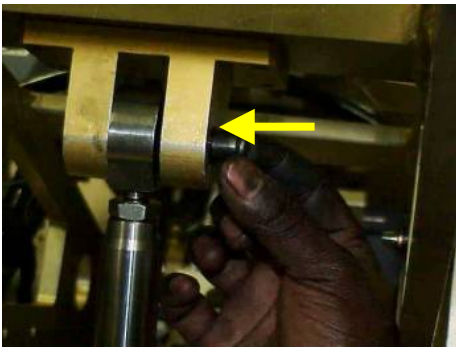
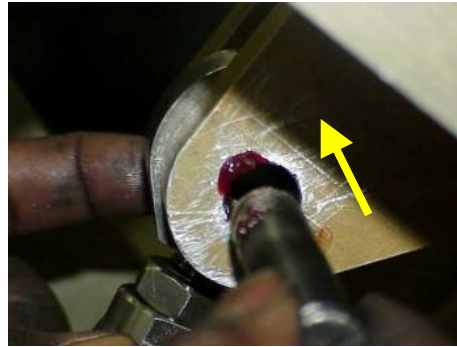
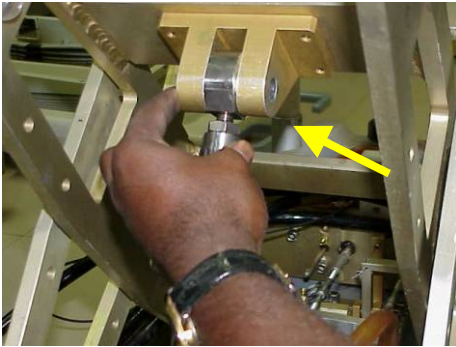


Put the both bottom cover plates to the lower base casting of table as shown above sequence and use Allen key to tighten the screws.

STEP-6: Assemble the cylinder assembly to scissor assembly by mounting bottom and top Scissor pins.



First align the cylinder inside the scissor assembly
Put little of grease on the scissor pin before assembling and assemble the pin as shown in the sequence.
Put the cir clips on both the sides of the pin.

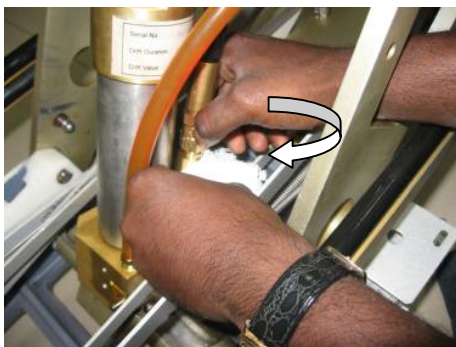
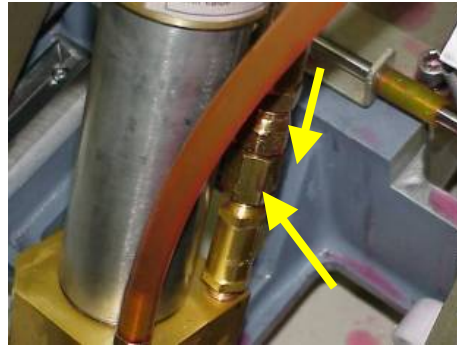


First align the cylinder inside the scissor assembly
Put little of grease on the scissor pin before assembling and assemble the pin as shown in the sequence.
Put the cir clips on both the sides of the pin

STEP-7: Assemble the hose assembly connector to cylinder for hydraulic oil supply



Remove the safety cap



Remove the safety cap and quickly insert the hose connector into the cylinder as shown.

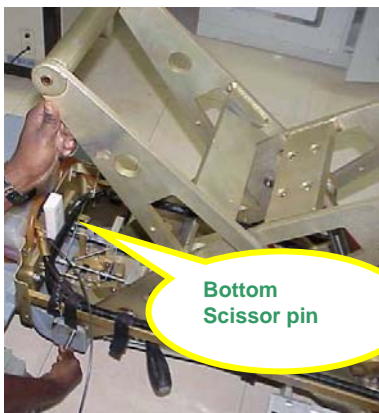
Tighten the hose connector to cylinder by hand and then by spanner as shown



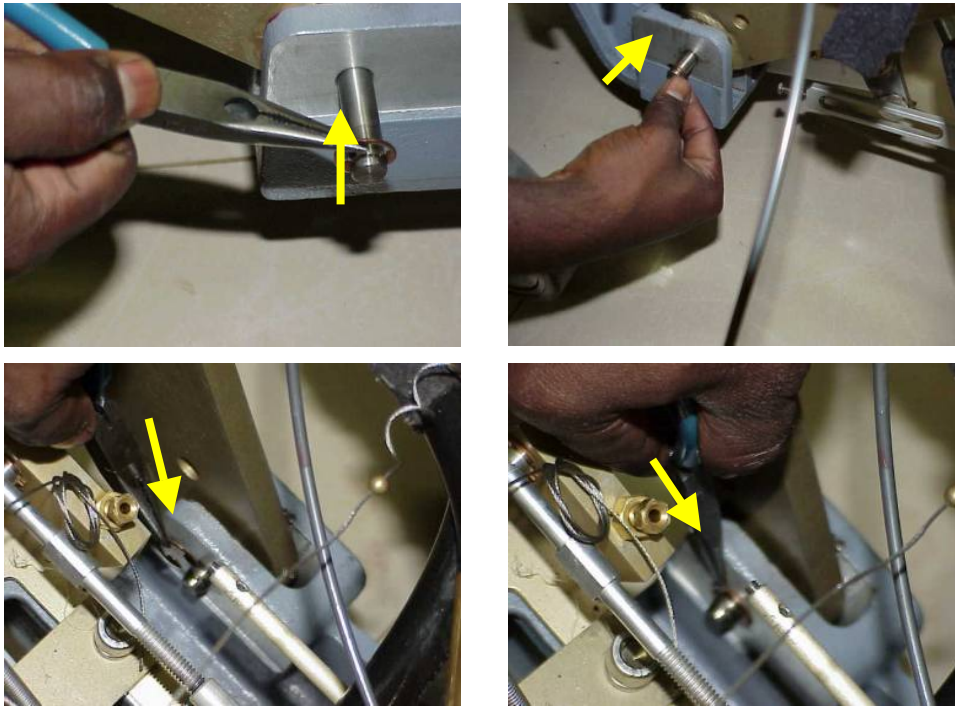
Caution!!!!

Avoid spillage of hydraulic oil as per as possible quickly replace the hose connector to cylinder to ensure less oil loss and fully tighten the hose connector

STEP-8: Assemble the Bottom scissor pins to the lower base of the table



Bottom Scissor Pin



Align the pin with the scissor hole and put the cir clip and push pin inside and put the cir clip other side also and ensure to put both the pins in two locations.

STEP-9: Assemble the dock pedal link to the lower base assembly



← Dock link



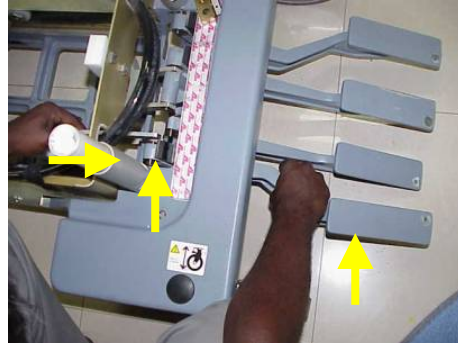
Position the dock link mechanism as shown insert the screwdriver to maintain the mechanism in that position



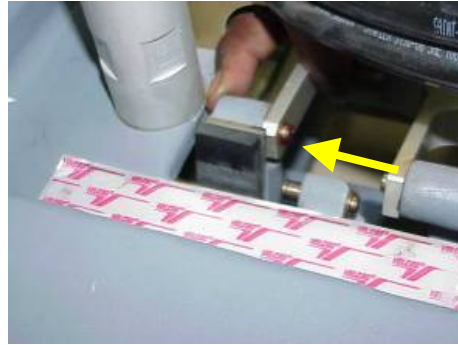
Insert the dock link position the dock link as shown above
Assemble the dock link to dock lever using pin assembly shown, insert the bush.



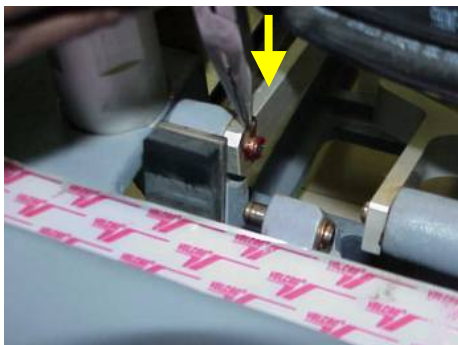
Insert the washer and put the cir clip as shown.



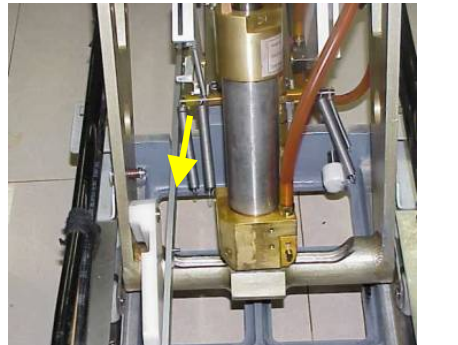
Align the dock pedal and dock link to push the pin inside the dock link.

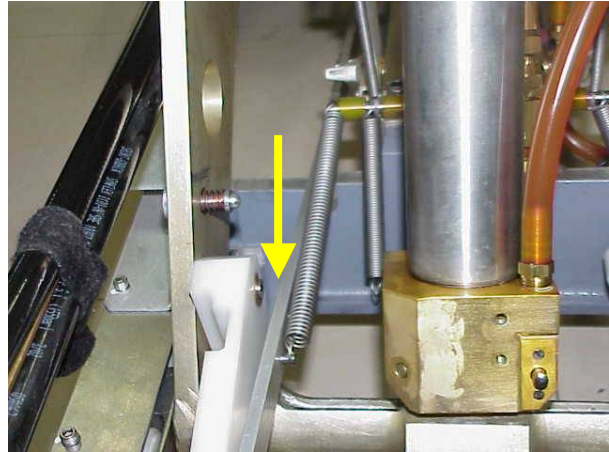


Push the pin and link as shown



Put the cir clip to lock the link and remove the Screwdriver as shown



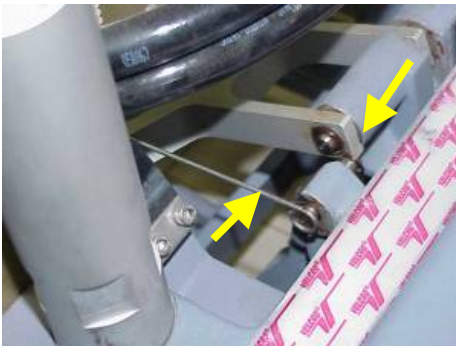


Place the dock link spring in its Position by pulling.

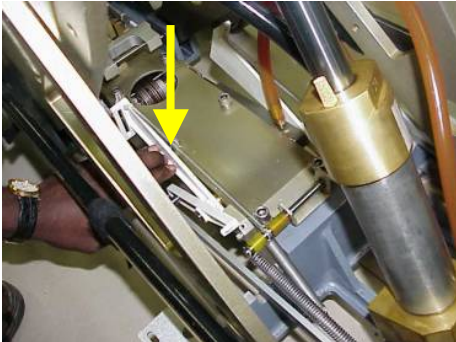
STEP-10: Assemble the un-dock pedal link to the lower base assembly

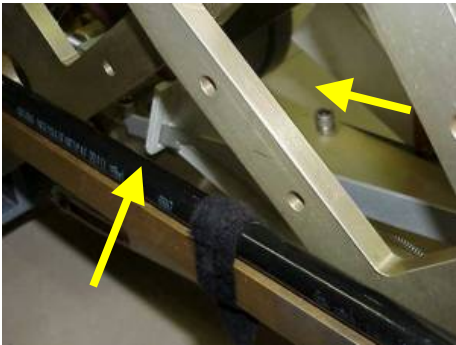
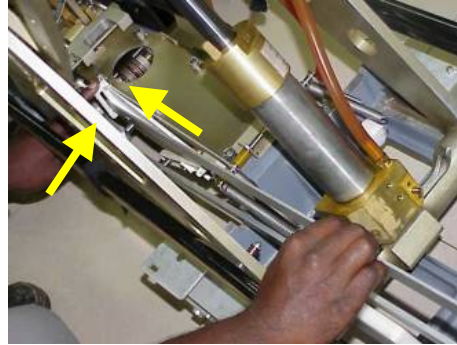
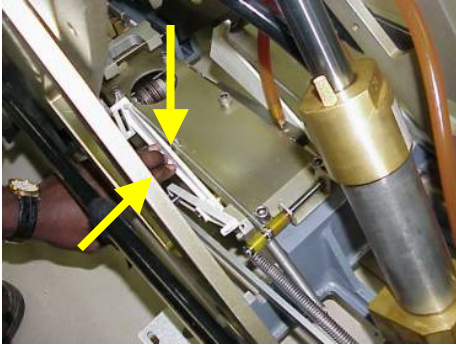


Undock link

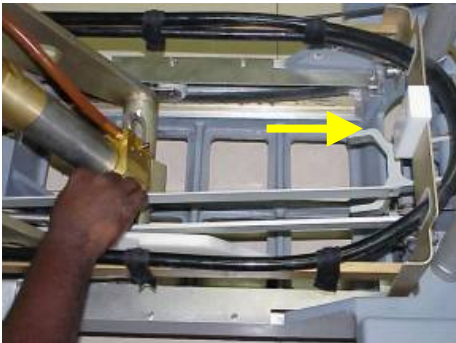


Put the spring holding wire inside the pin

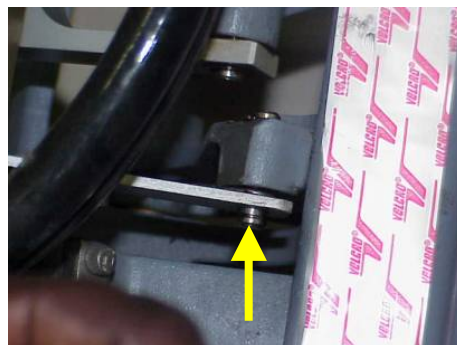




Hold the dock link mechanism in the position by pressing as shown. Insert the front end of the undock link inside the dock lever mechanism in the opening as shown.



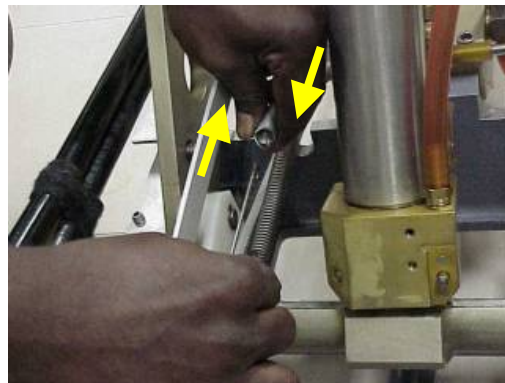
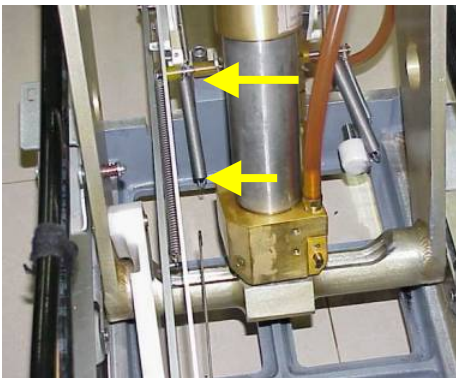
Insert the link from bottom of the structure, align with the undock pedal pin as shown



Press the pin in the undock link hole after aligning properly.



Then put the cir clip to ensure locking of the undock link.

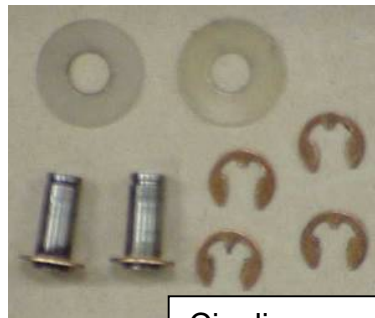


Place the undock link spring in its Position by pulling and tie with the wire as shown

STEP-11: Assemble the up pedal links to the Lower base assembly

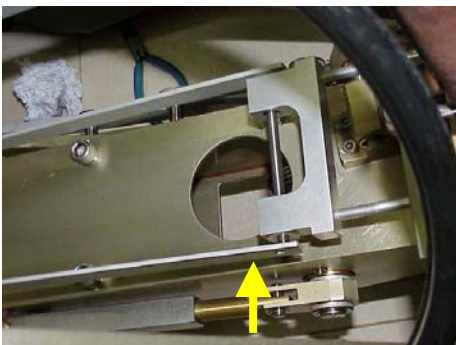
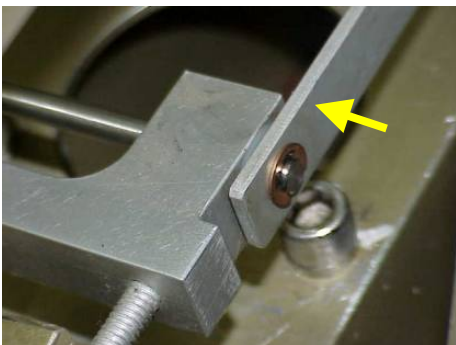
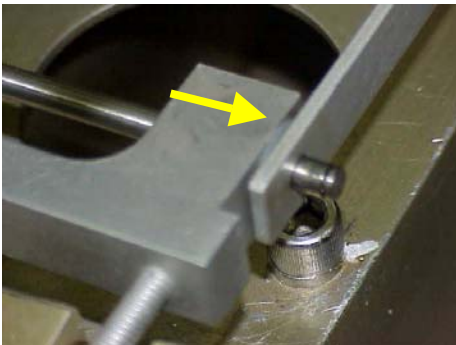
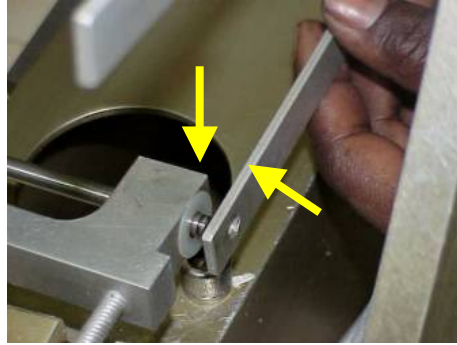


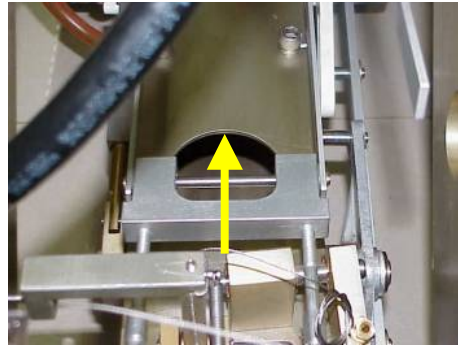
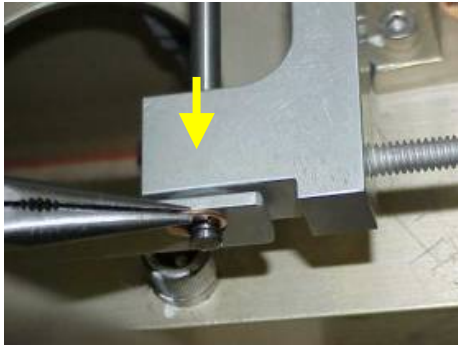
Up Pedal Links



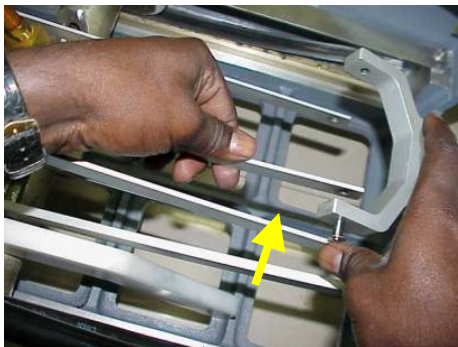
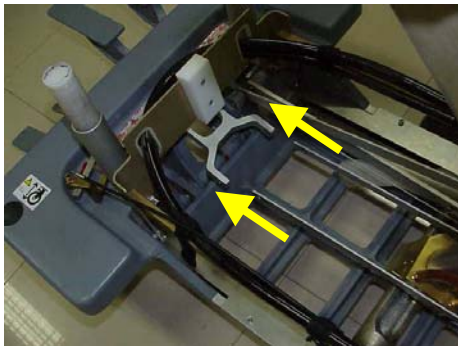
Cir clips, washers and pins

These are the components to be used for assembling the up pedal links

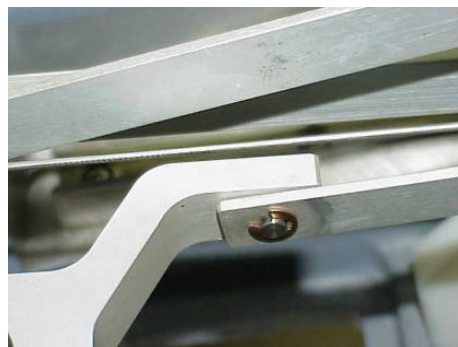




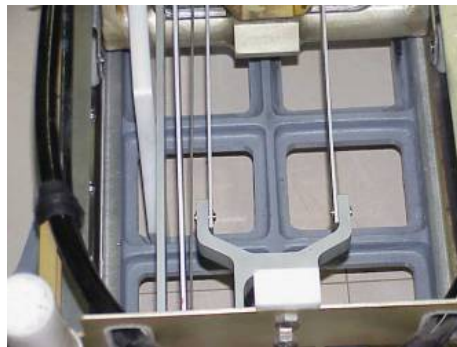
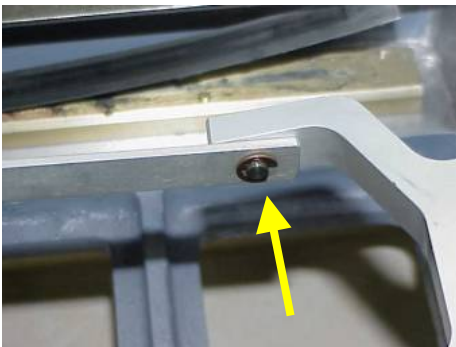
Assemble the up pedal links in the front side of the lower base assembly of table as above sequence



Align the up pedal links as shown in the above pictures
Push the link pins to the link holes as shown.

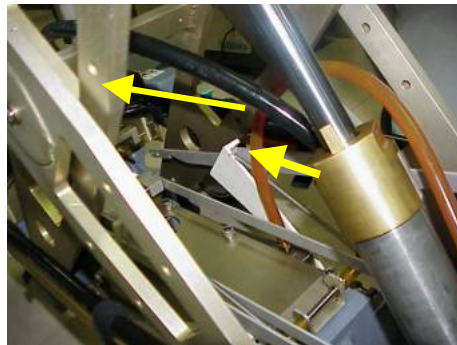


Apply the cir clip to lock the link.

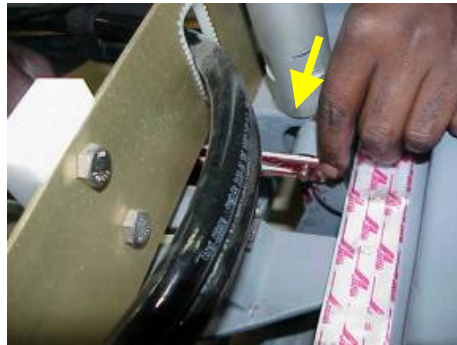


Same procedure to be followed for the other link as shown

STEP-12: Assemble the down pedal link to the Lower base assembly



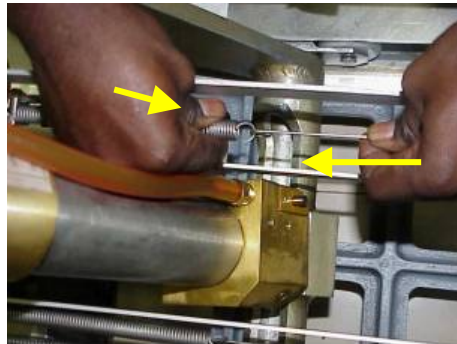
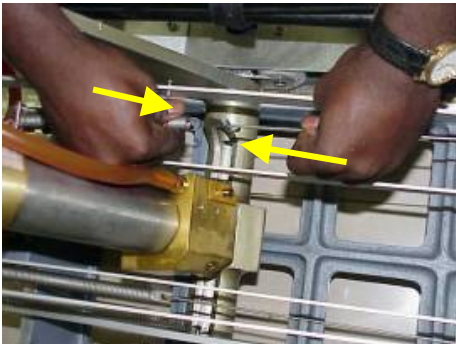
Insert the down pedal link as shown inside the down pedal lever



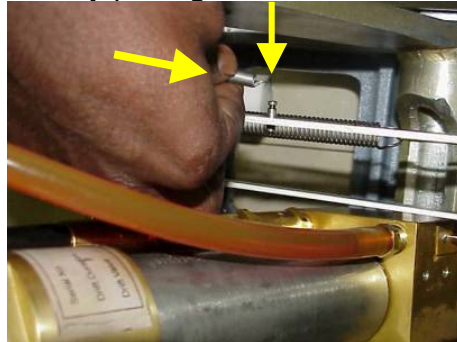
Align the down pedal link with down pedal pin and insert the pin in the link



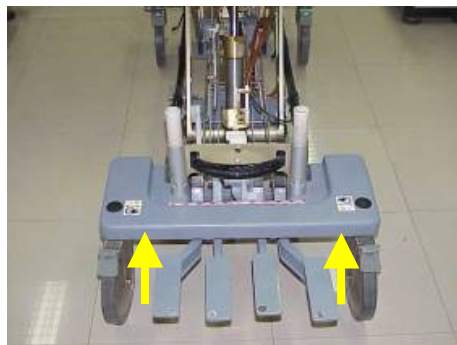
Insert the wire and put the cir clip to lock the down pedal link.



Place the down link spring with the wire by pulling and tie it



Place the down link spring to link as shown



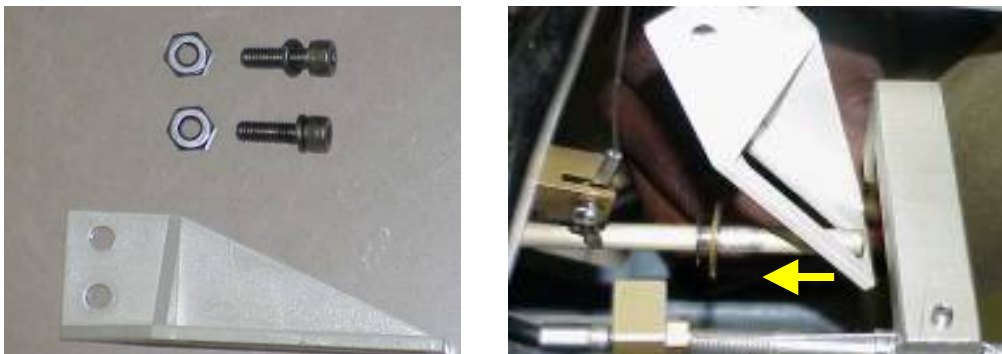
Now all the links are assembled to check this all the 4 pedals to be in up position as shown.

STEP-13: Assemble down release assembly to cylinder:

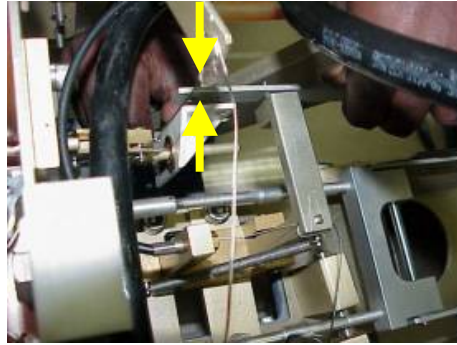


Assemble the down release assembly to cylinder as above sequence.

STEP-14: Assemble down release link lever and adjust down release cable.



Down link lever and Allen screws and nut to be assembled and Insert the Plastic lever into the rod as shown



Align the link and the lever as shown



Insert the Allen screws and assemble the nuts as shown



Tighten the Allen screws as shown.

For detail down release cable adjustment, refer [Section 16.21](#)

STEP-15: Assemble the bellows and tabletop.



Put the bellows on the casting as shown.

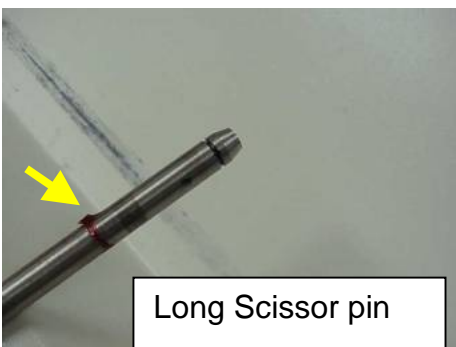


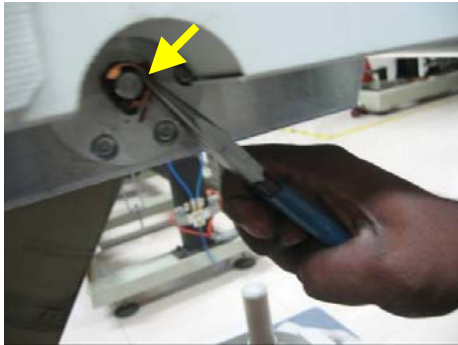
Place the table top on the scissors as shown.

STEP-16: Assemble the long scissor pin to the scissor and tabletop



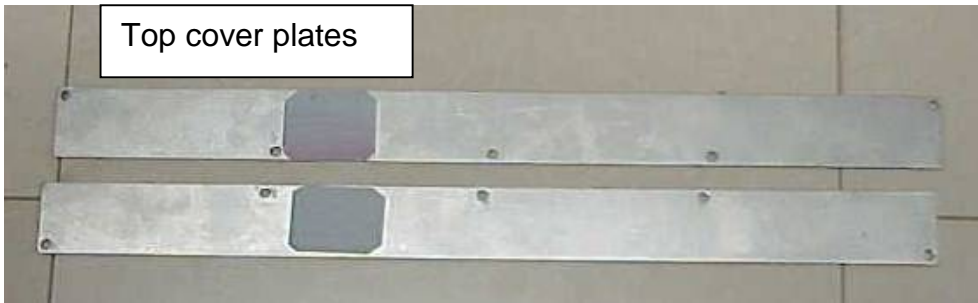
Align the table top to the scissor properly



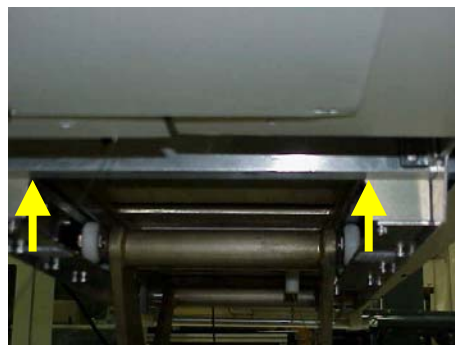


Insert the long scissor pin with little grease inside the hole in table top as shown, the taper end of the pin should enter first and put the cir clips to lock the pin as shown on both the sides.

STEP-17: Assemble the top cover plates to tabletop.



Assemble the plates with Allen screws as shown.



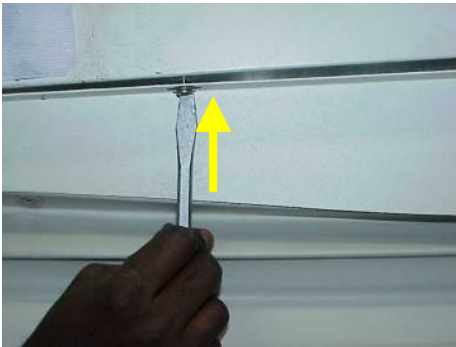
Assemble both the plates with Allen screws as shown.

STEP-18: Assemble the Up indicator cable assembly to tabletop



Assemble the up indicator cable to the pin as shown and tighten it up to the nut end as shown.

STEP-19: Assemble the Bellows to tabletop



Assemble the bellows to the table top as shown by tightening the screws with the screwdriver.

STEP-20: Assemble the Latch support.



Assemble the latch support as shown
Push the latch support inside the tabletop, put the Allen screw inside the pocket as shown and tighten the screw with Allen key.

STEP-21: Assemble the latch support covers to tabletop

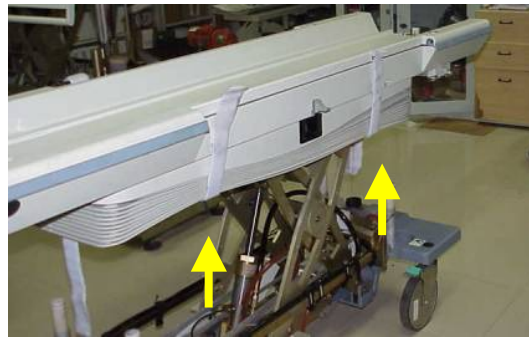


Assemble the cover inside and put the screws and tighten them as shown.

STEP-22: Check the height of the table and raise the bellows to replace cables



The height of the table to be checked when the table is at up most position and it should measure about 885mm



Lift the bellows as shown and lock the bellows by Velcro's.

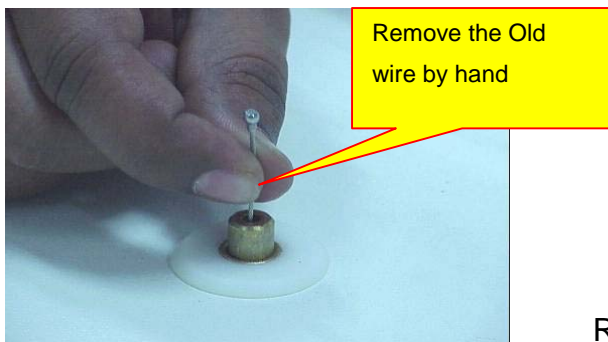
STEP-23: Replacement of Latch cable inner wire and cable adjustments:

For Latch cable inner wire Adjustment refer Section 14.5 to 14.10

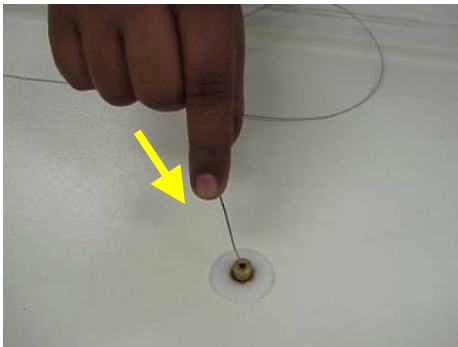


Note:
The adjustments to be made as specified in the above said sections.

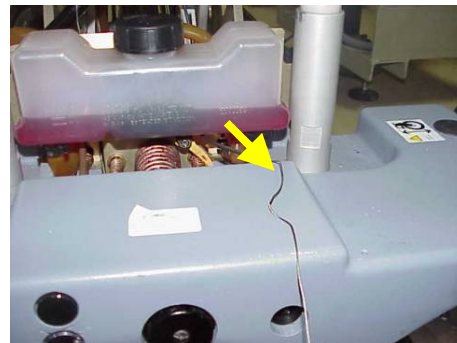
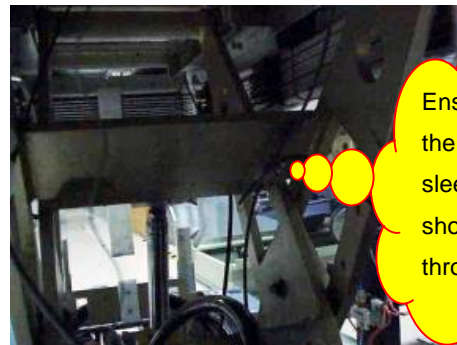
STEP-24: Replacement of centre pin cable inner wire and adjustments.



Remove old inner wire as shown



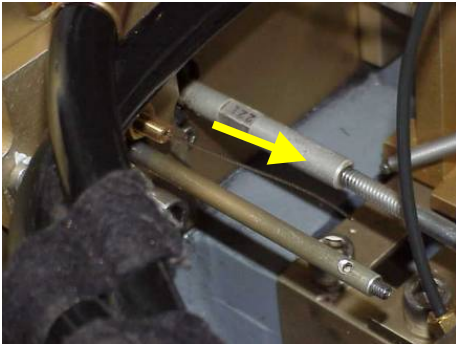
Insert the inner wire cable as shown



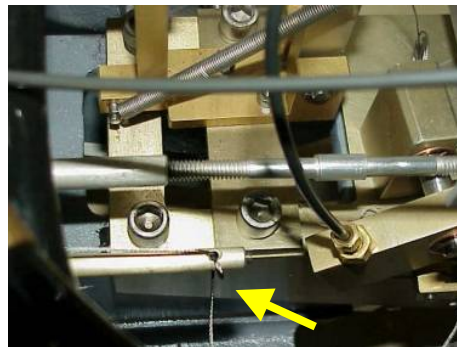
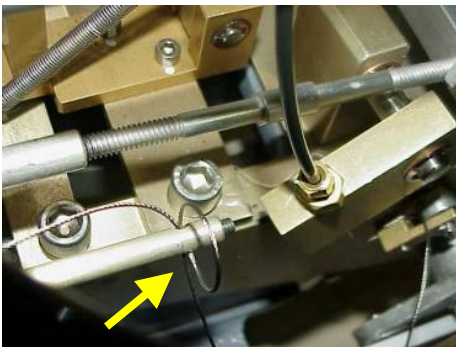
Insert the cable from bottom of the hose connector as shown and pull the wire from the front end of the lower base assembly of the table as shown.



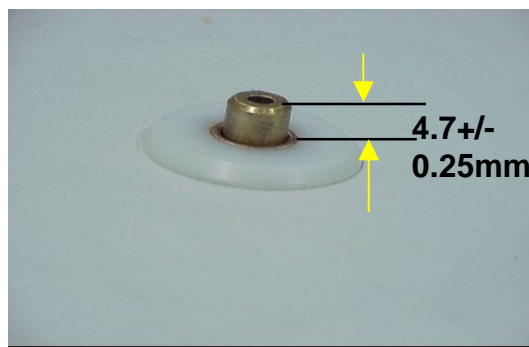
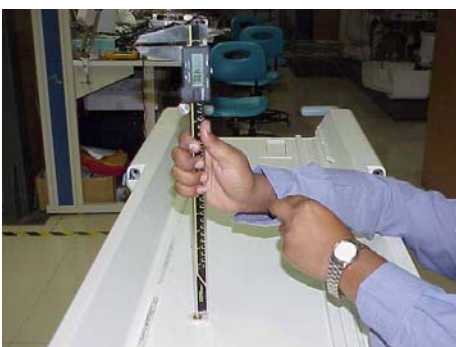
Insert the inner wire of the centre pin cable through the opening at the bottom of the oil reservoir as shown



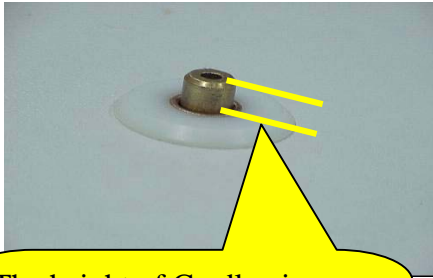
Pull the wire from the other side as shown and insert the inner wire to the dock push rod in the hole as shown



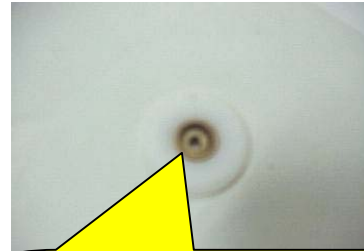
Pull the inner wire and adjust the centre pin height.



Maintain the centre pin height at 4.7mm +/- 0.25mm



The height of Cradle pin should be **4.7+/-0.25 mm** in **UNDOCKED** condition



The depth should be at least **3.0 mm** below brass top surface in **DOCKED** condition

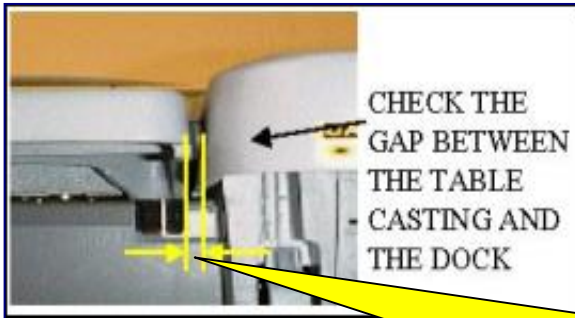


Illustration 27D

NOTE: The Cradle pin height depends on the gap between Dock assembly and Table. Ensure that the gap is about 3mm.



After height adjustment tighten the grub screw.

STEP-25: Flipper cable adjustment and assembly:

Refer Section 13.12 Flipper Dock/Undock Cable Replacement.

STEP-26: Assemble Arm boards.

Use 3/32 Allen key tighten grub screw



Slide the pin and assemble the arm boards of both the side



STEP-27: Assemble the Cradle Assembly to Table Top



Assemble the cradle assembly as shown.

STEP-28: Final Check:



**Caution!!! Re-inspect the total table for proper fasteners put in proper places; ensure all the parts put back in same locations as previously before disassembling the table.
Docking and undocking of the table to be checked in MR bay**

STEP-29: Return the table to the MR ROOM and perform all table functional checks

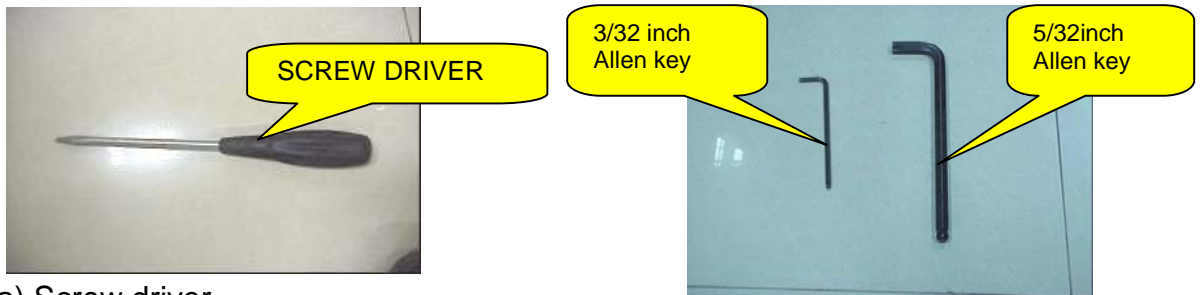
23. CRADLE RELEASE FROM PATIENT TRANSPORT ADJUSTMENT:

23.1 Undock patient table, and move it out of MR room.

23.2 Invert the cradle and place on a flat surface as shown below



23.3 Tools used for Cradle Release adjustment



a) Screw driver.

b) 3/32 inch Allen key

c) 5/32 inch Allen key

23.4. Initial checks to adjust the cradle release Mechanism:

23.4.1 Handle Twist release test:

Twist handle fully to extend release bar as shown in ILLUSTRATION 90.

23.4.2 Check for release bar extension when handle twisted fully.
ILLUSTRATION 91.



ILLUSTRATION 90

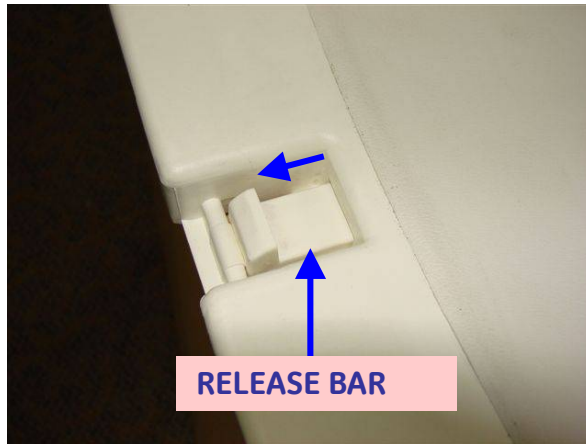


ILLUSTRATION 91

NOTE: Two persons are required to conduct this check

23.4.3 Twist Handle fully to extend release ramp as shown in illustration 90 and Hold it at the extended position.

Push the “Release Ramp” as shown in illustration 92 using a socket extension, nut driver, as shown in the illustration 92, or similar tool with approx. 10-20 lbs force. Observe the movement of the release ramp, a properly adjusted release ramp will exhibit some spring and when release will return to its original position.

If the “Release Ramp” fails to return to its original position and moves more than Approx. 1.5mm (.06 in.) then adjust the release mechanism tension per instructions in section 22.5



ILLUSTRATION 92

23.4.4 Check for release bar retraction when handle released to its original position and Release bar should be flushed against the cradle front section as shown in ILLUSTRATION 93. If gap is observed between the cradle and release bar adjust the release mechanism tension as per section 22.5.

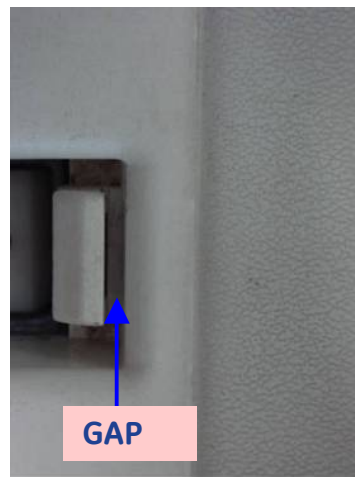
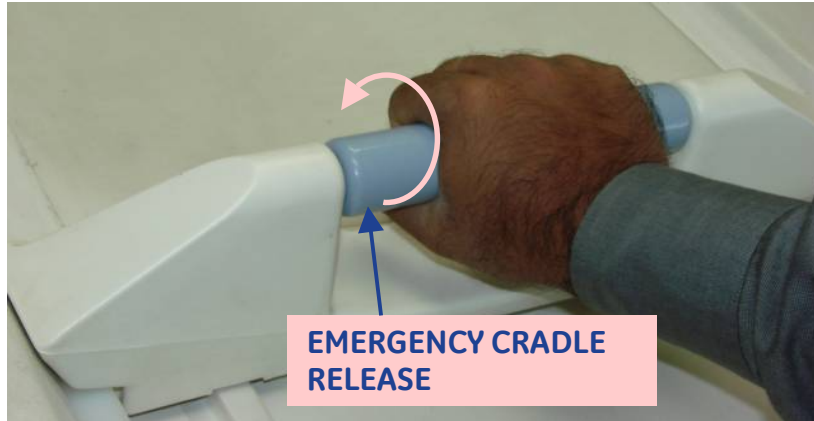


ILLUSTRATION 93

23.5 Steps for Adjustment of cradle release mechanism tension:

23.5.1 Remove the Cover to access the handle twisting Mechanism by removing the screws. Refer illustration 94

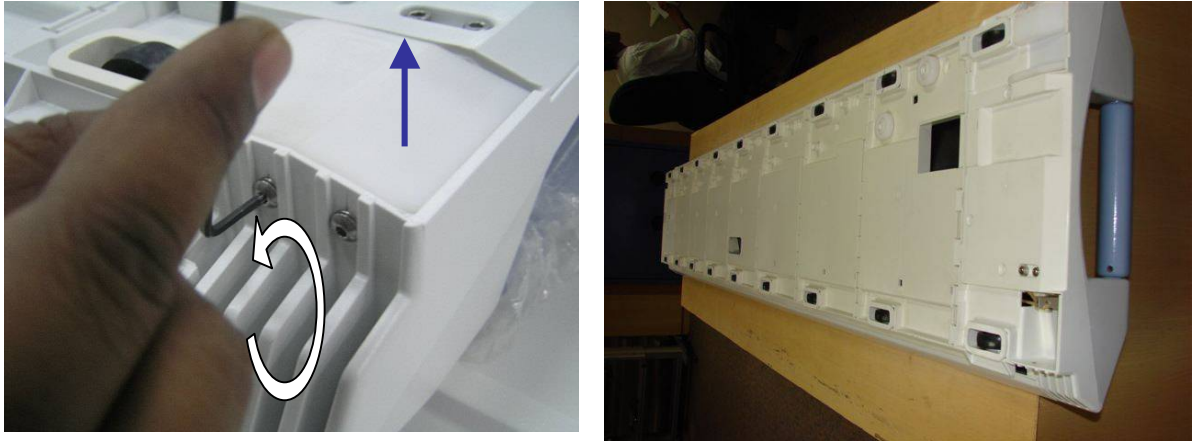


ILLUSTRATION 94

23.5.2 Remove the Kevlar cord knot and the loosen the grub screw:

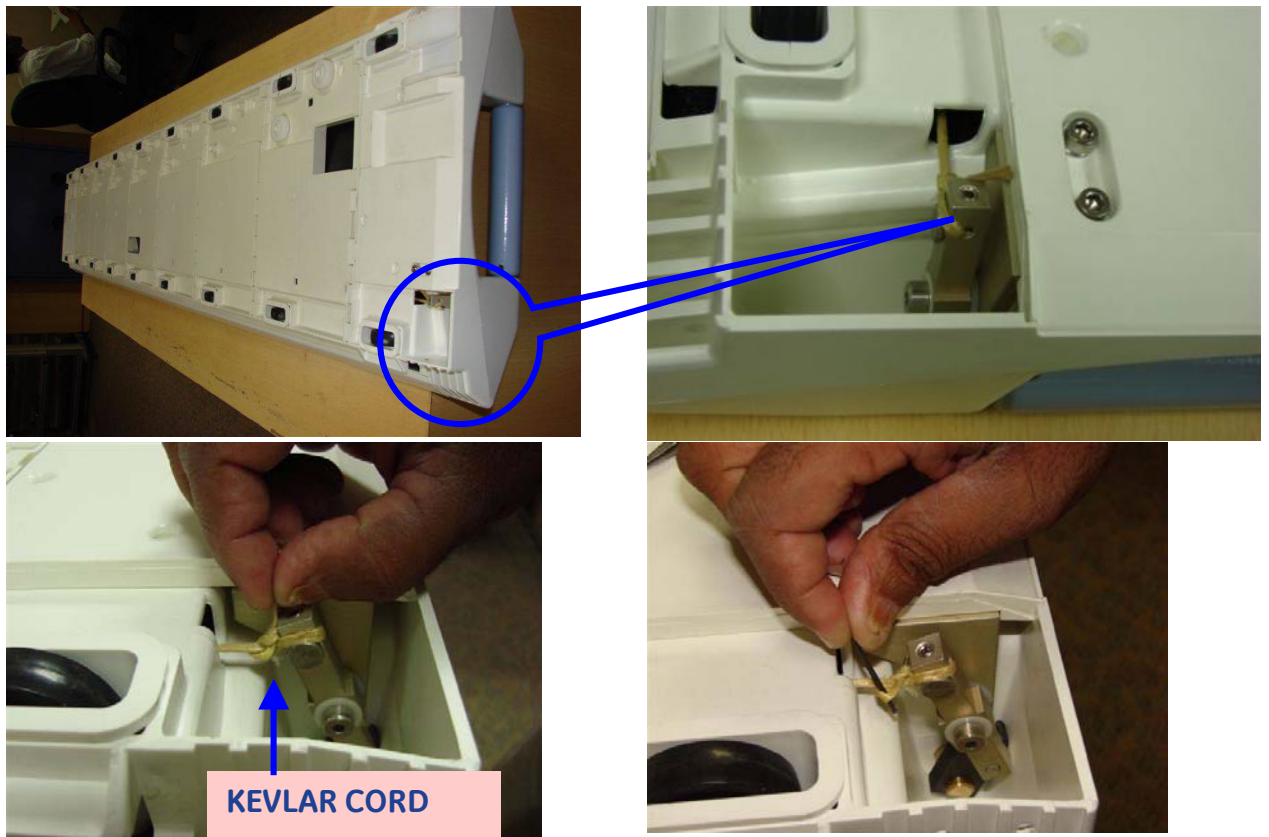


ILLUSTRATION 95

Remove the Kevlar cord knot as shown in ILLUSTRATION 95

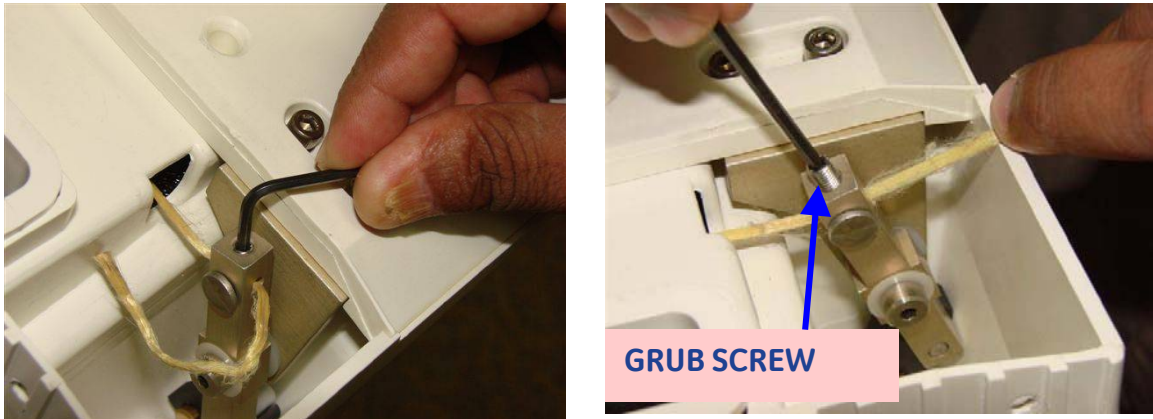


ILLUSTRATION 96

Loosen the grub screw as shown in the ILLUSTRATION 96

23.5.3 Tighten the Kevlar cord and check for Tension and put back the knot of the Kevlar cord

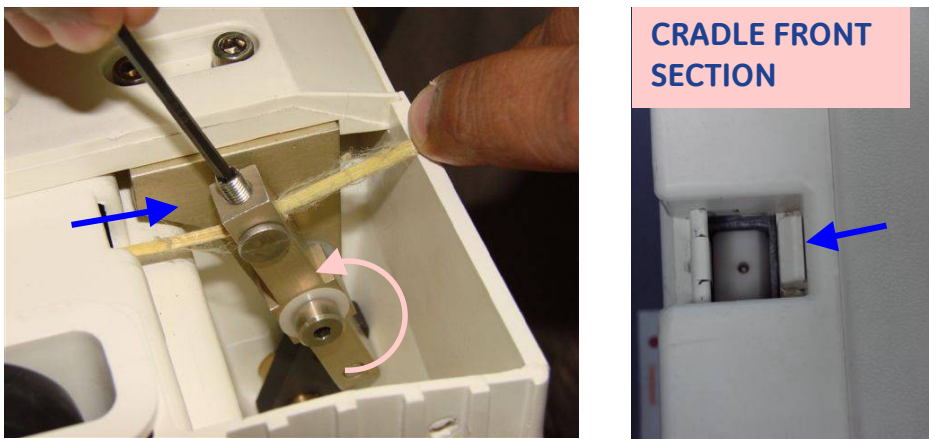
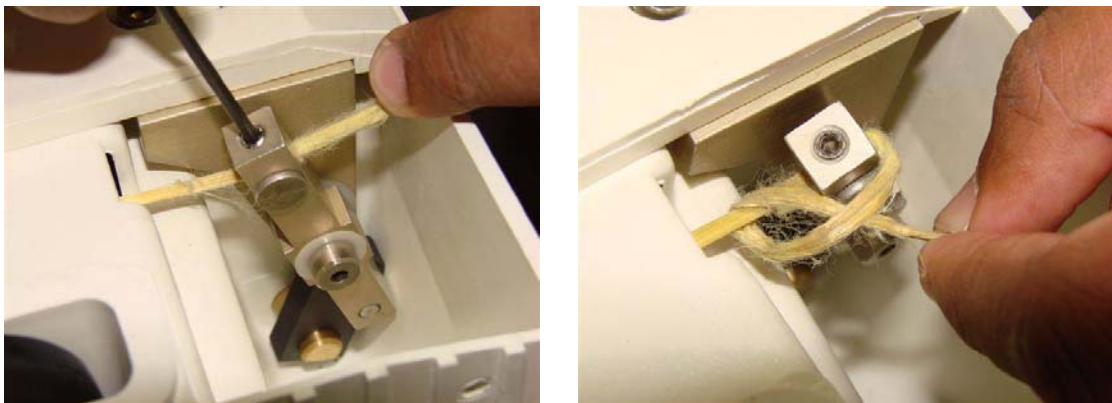


ILLUSTRATION 97

Pull the Kevlar cord in the direction shown and ensure proper tension induced into Kevlar cord so that Release bar butt against the Cradle front section as shown in ILLUSTRATION 97



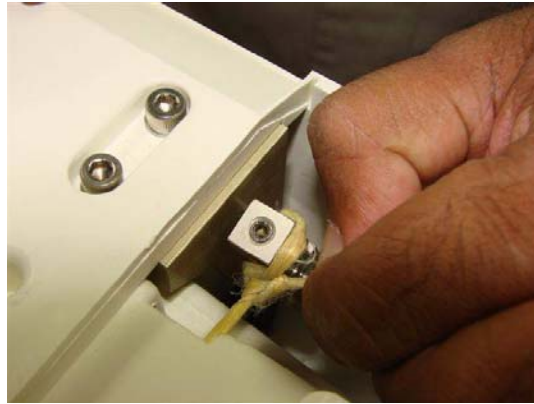


ILLUSTRATION 98

Tighten the grub screw and tie a knot for the Kevlar cord as shown in ILLUSTRATION 98



CAUTION! Ensure that the grub screw is on the rivet and not on the Kevlar cord and the Kevlar cord must be beneath the rivet while adjusting the tension of the cord and tightening the grub screw.



ILLUSTRATION 99

Put back the cover as shown in illustration-99

- 23.6 Follow Section 22.4 for initial checks.
- 23.7 Put back the cradle assembly on table.
- 23.8 [Return the table to MR room](#)

24. PLACEMENT OF NEW DEAD STOPPER ASSEMBLY:

24.1 Scope:

These instructions have to be followed for placement of the *New dead stopper assembly* in Signalite and Hde(Value 1.5T) table in the field.

NOTE: SERVICE OF THE TABLE SHALL BE DONE OUT OF THE MAGNET ROOM



WARNING!!
PERSONAL INJURY POSSIBILITY! WHEN PERFORMING MAINTENANCE OR REPLACEMENT OF PARTS ON THE TABLE IN ITS UP POSITION, ENSURE THAT ALL FOUR CASTER WHEELS TO BE LOCKED BEFORE SERVICING AND SAFETY LOCK BAR IS IN PLACE (SEE STEP-2 UNDER PROCEDURES TO INSTALL NEW FIELD FIX DEAD STOPPER ASSEMBLY). SEVERE PERSONAL INJURY CAN OCCUR IF TABLE IS ACCIDENTALLY LOWERED DURING SUCH SERVICE ACTIVITY. ALSO DO NOT LOAD THE TABLE DURING MAINTENANCE.

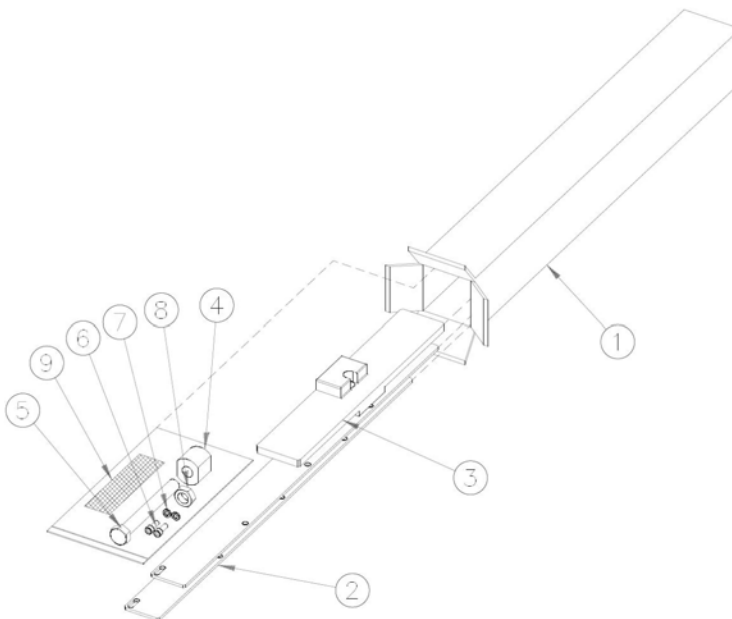


24.2 Tools list:
Basic Tools required



- Measurement Scale
- Ball driver of size 5/32
- Scissor
- 9/10,18/19 Spanners
- 3/32,5/32 Allen Keys

24.3 New Dead stopper FRU Kit Assembly:

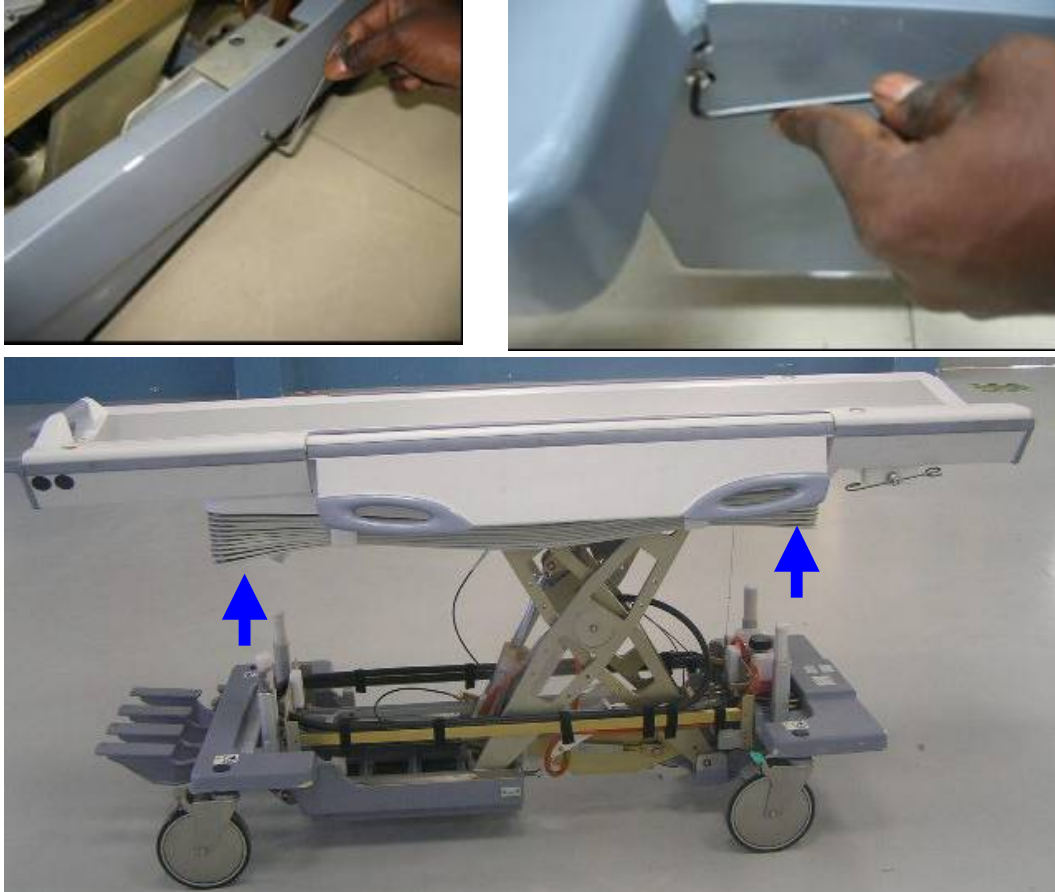


Refer Drawing 5271723 ADW for above parts in e-PDM and this part is a FRU can be ordered in

GPO.

24.4 Disassembling Procedure:

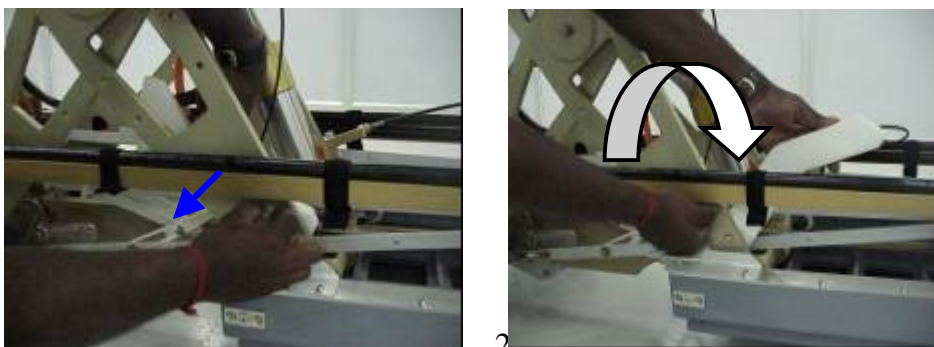
STEP-1: Remove Bottom Covers and Lift the bellows. (Also refer Service Methods manual 2377126TPH Rev 2 Section 3)

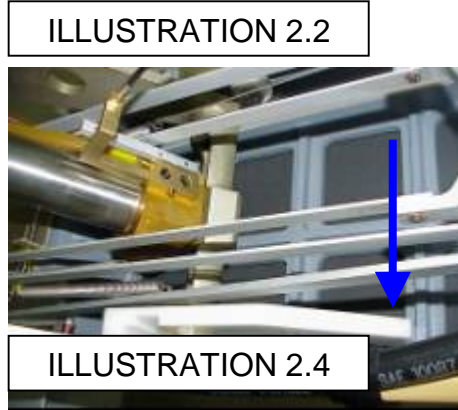
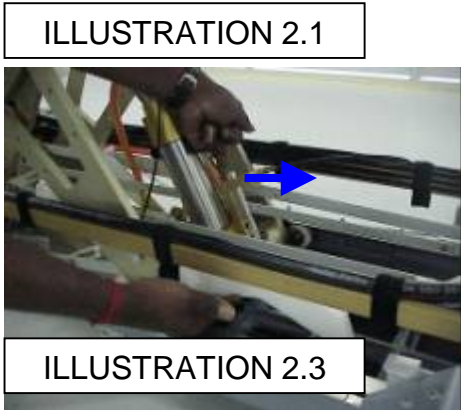


Remove the bottom covers and lift the bellows as shown and lock the Velcro's loop to the hook so that bellows retained in the upper most position

STEP-2: Engage the safety latch bar. (Also refer Service Methods manual 2377126TPH Rev 2 Section 5)

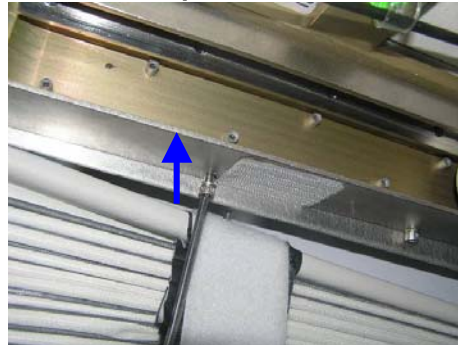
Refer steps below for procedure of engaging the safety latch bar.
Unhook Safety latch bar by pulling the lock pin knob outward, (Refer Illustration 2.1and 2.2), and engage it towards the casting, by Pressing the down pedal until lock bar fully supports table top, follow illustration 2.3 and 2.4



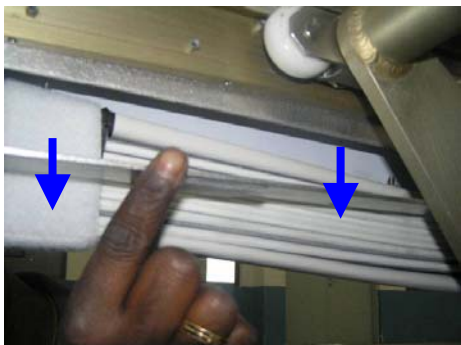


Caution: Ensure Safety latch bar fully engaged to cast base as shown in illustration 2.4!!

STEP-3: Remove Top Guide cover plates from tabletop.



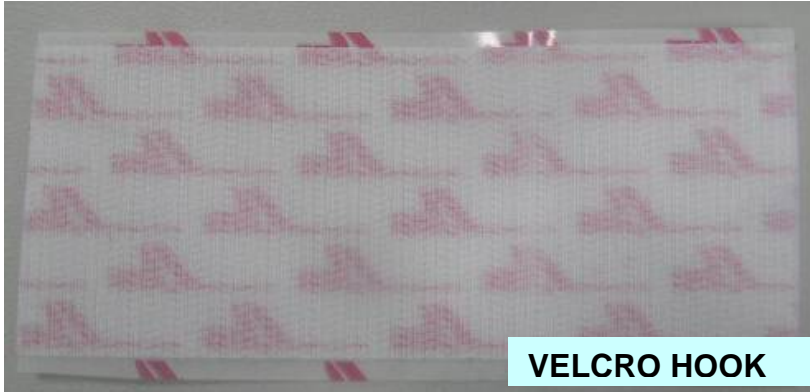
Remove the guide cover plate from tabletop structure on either side by removing the Allen bolts and washers using 5-32 Ball drive.



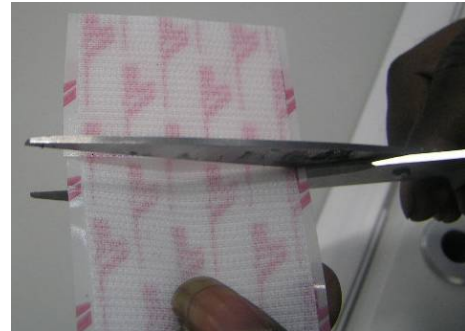
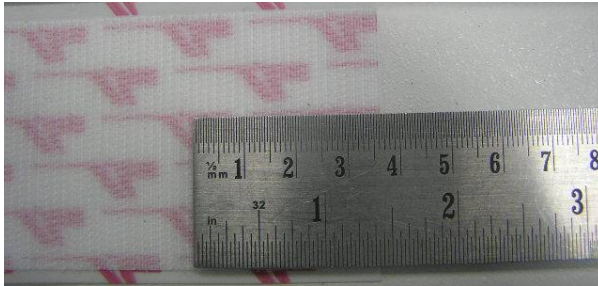
Take out both the plates safely and keep the plates for reference to carry out the next step.

24.5 Procedures to install Field Fix Dead Stopper Assembly

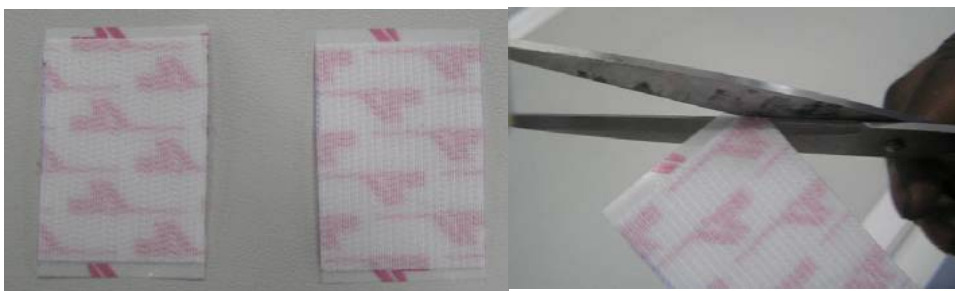
STEP-1: Preparation of new guide cover plates for Installation



Take out the Velcro hook



Cut the Velcro into two equal pieces of size 37mm as shown using Scissor.



Chamfer the edges of the Velcro hook-using Scissor as shown.

Procedure to Adhere Velcro hook on the Guide covers plates.



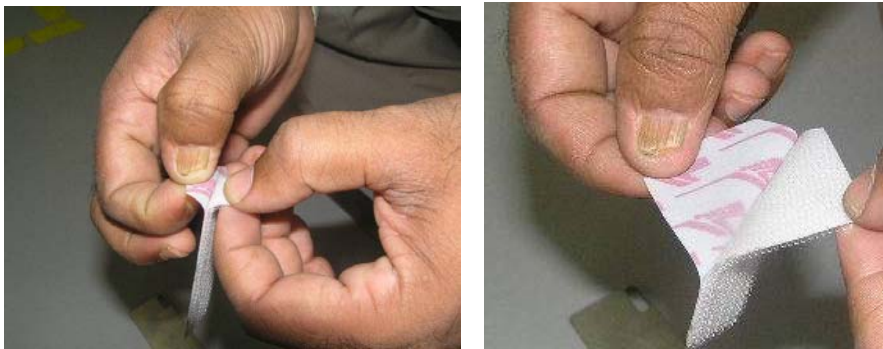
Take out the new Guide cover plate-1 and watch out for the slots on either side



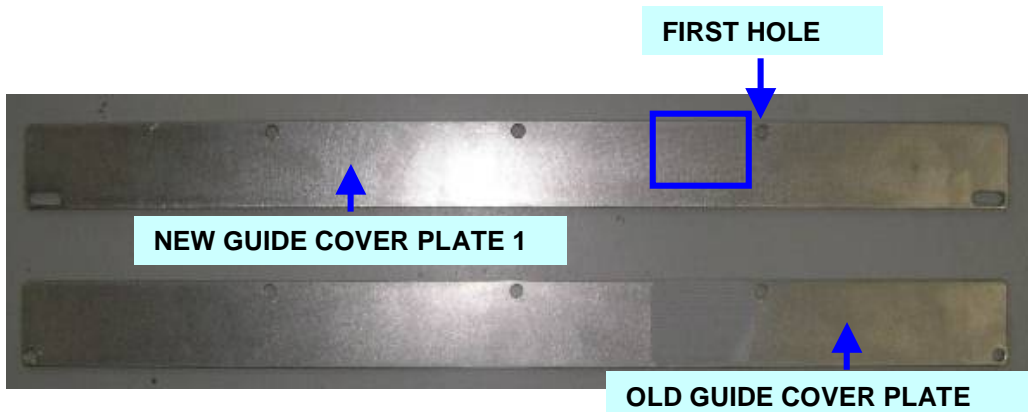
Orien the new guide cover plate-1 with respect to removed old plate with Velcro hook adhered to the old plate as shown.



Clean the guide cover plate-1 with the cotton waste on the side on which the Velcro hook to be pasted



Remove the outer liner of the Velcro hook as shown.



Adhere the Velcro hook in the highlighted region adjacent to the first hole in the New Guide cover plate-1 as shown.

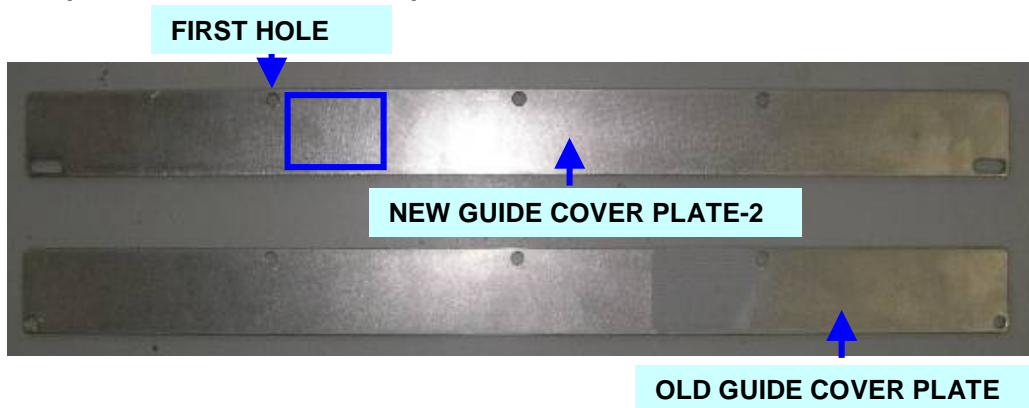


Adhere the hook onto the new guide cover plate 1 and apply pressure on complete area of the hook for better adhesion



Guide cover plate -1 is ready for assembly.

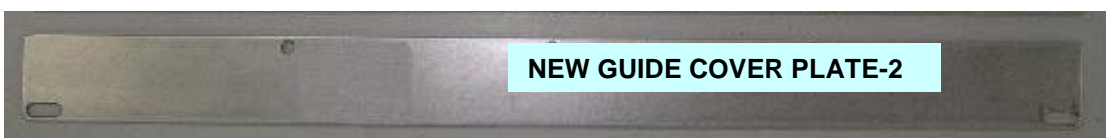
Follow the same procedure to adhere the Velcro hook on the New guide cover plate -2 except the below mentioned steps



Orient the new guide cover plate -2 as shown. Adhere the Velcro hook in the highlighted region adjacent to the first hole in the New Guide cover plate-2 as shown



Adhere the hook onto the new guide cover plate 2 in the specified place and apply pressure on complete area of the hook for better adhesion



Guide cover plate -2 is ready for assembly



New guide cover plate-2 to be mirror of new guide cover plate -1.
Note: 1) Ensure proper adhesion orientation of Velcro hook on Guide cover plates.

STEP-2: Preparation of New Dead Stopper Assembly for Installation.

Procedure to assemble the Dead stopper assembly

New Parts to be used:



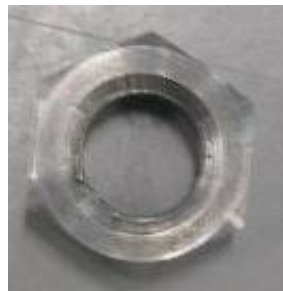
NEW SUPPORT PLATE



NEW BOLT OF LENGTH 85 mm

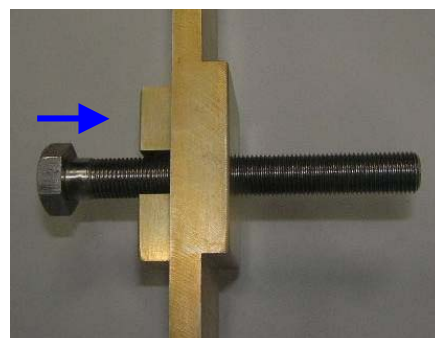
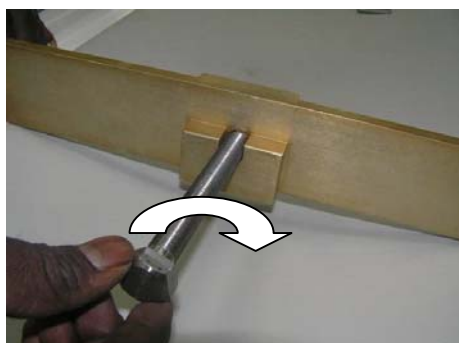


MECHANICAL STOPPER

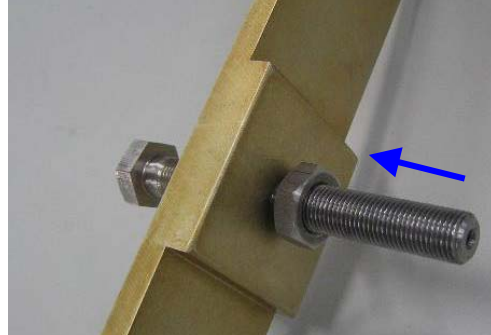


NUT

Assembling New bolt to New support Plate: Insert the bolt into the Support plate by turning in the direction shown.

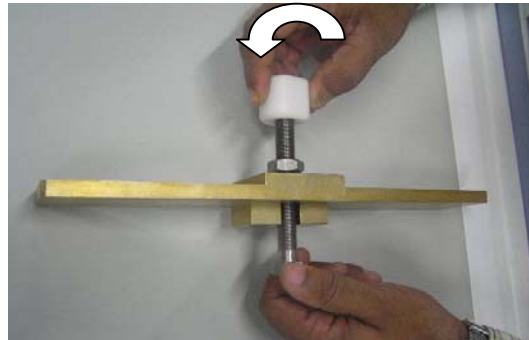
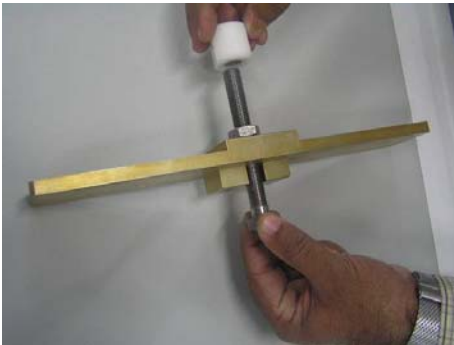


Assembling Nut to New Bolt:



Insert the Nut into the bolt by turning in the direction shown.

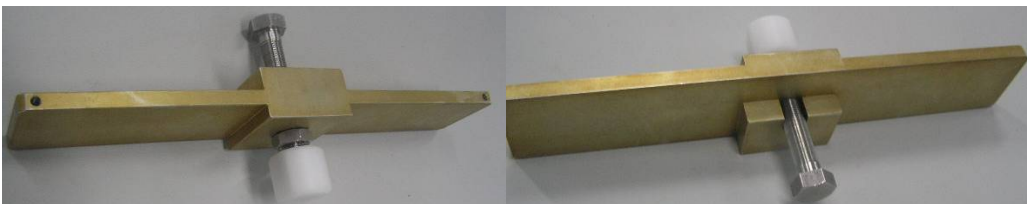
Assembling Mechanical stopper to New Bolt:



Hold the bolt and turn the mechanical stopper in the direction as shown



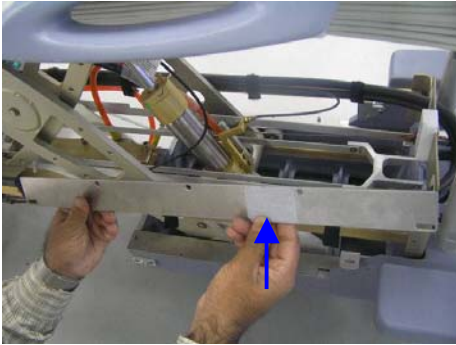
Caution!! Ensure complete tightening of Mechanical stopper into the bolt



NEW DEAD STOPPER ASSEMBLY

New dead stopper assembly is ready for assembly in the table

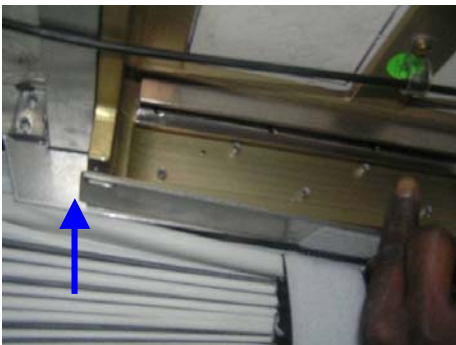
STEP-3: Assembly of New Guide cover plates to the Tabletop Structure



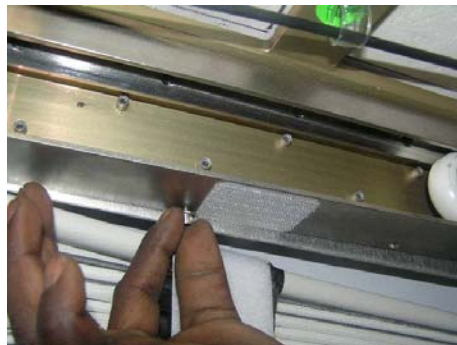
Velcro Loop

Note: 2) Ensure Velcro hook on the New Guide cover plates to face downwards while assembling the guide cover plates to the Table top Structure

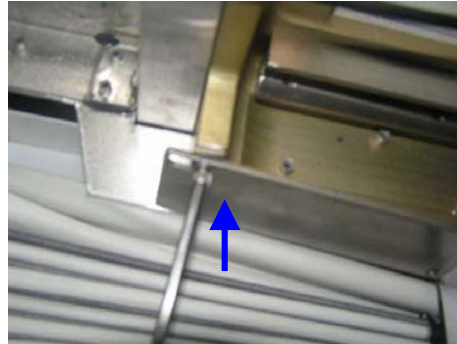
3) Guide cover plate to be assembled in such a way that Velcro hook to be adjacent to the Velcro loop as shown



Align the guide cover plate to the tabletop structure to the assembly position.

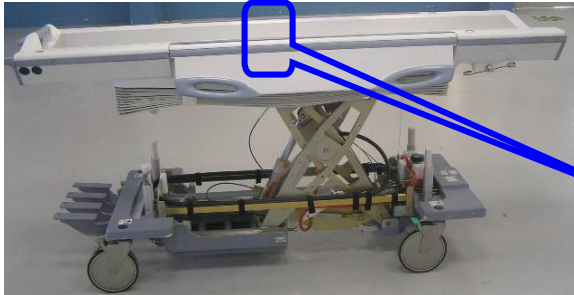


Use disassembled Allen Bolt with spring washer to fasten the guide cover plates to the tabletop structure, ensure spring washer not to be missed while assembling the guide cover plates.

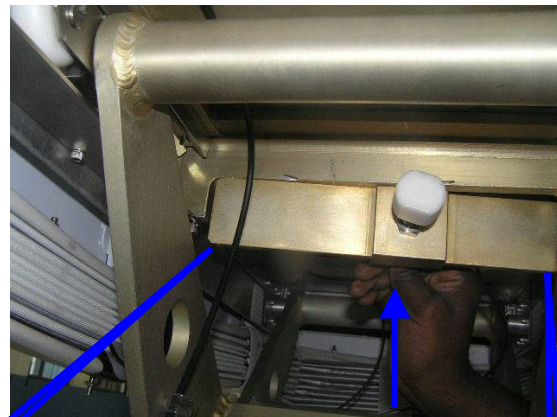
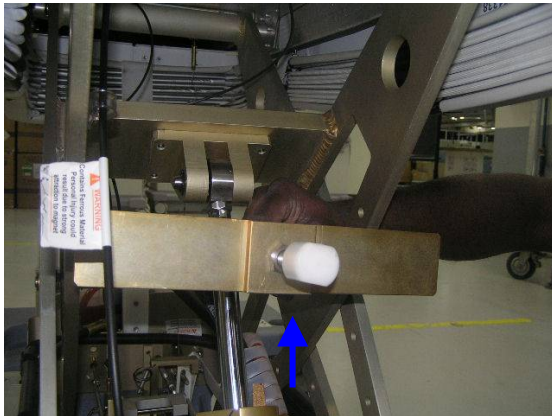


Tighten all the bolts using the 5-32 ball driver.

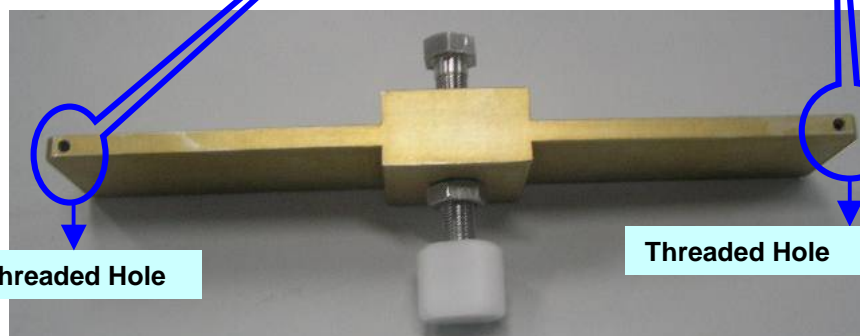
STEP-4: Assemble New Dead stopper assembly in the Tabletop Structure.



This is the place where new dead stopper assembly To be placed and the bellows must be in lifted Condition while assembling dead stopper assembly

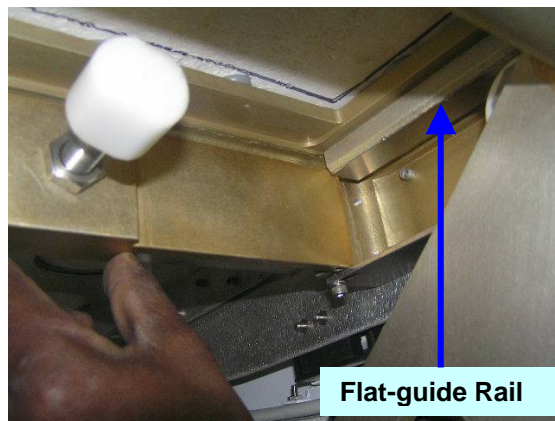
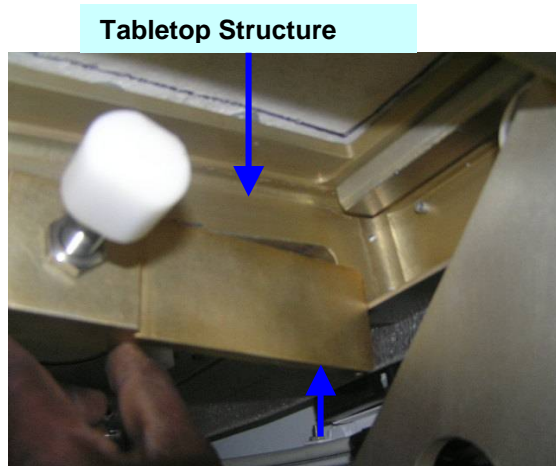
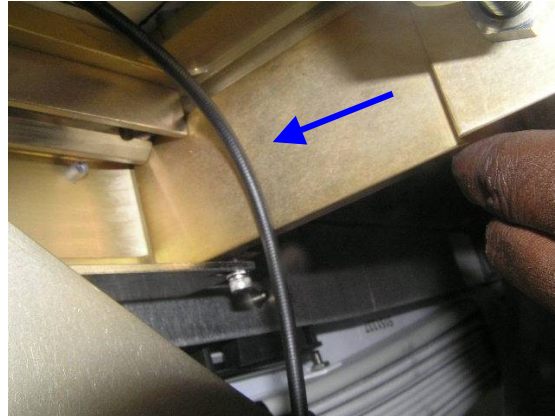
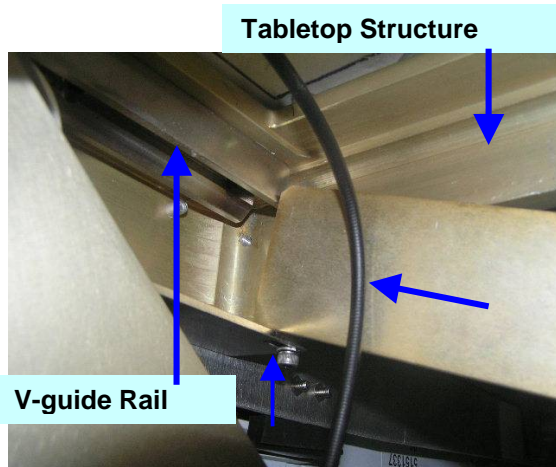


Take up the dead stopper assembly to the location in the tabletop structure as shown

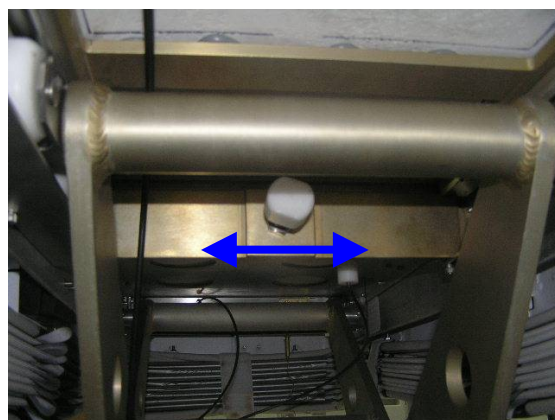


Place the dead stopper assembly on one of the guide cover plates by pushing the cable forward and then push the dead stopper assembly in the small gap available between the Table top structure and V- guide rail.

Note: 4) Ensure Threaded hole in the dead stopper assembly should face downwards as shown.



Then lift the other side of the dead stopper assembly and place the dead stopper assembly on opposite guide cover plate and then push the dead stopper assembly by 5 to 6mm slowly in the small gap available between the Table top structure and Flat guide rail.



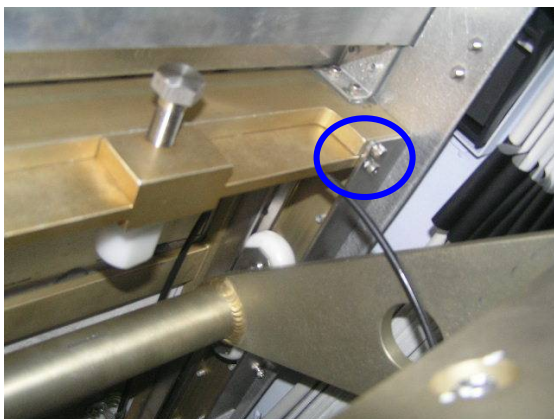
Note: 5) Centralize the dead stopper assembly so that the threaded holes in the Dead stopper assembly are accessible for fastening the bolts through slot of the guide cover plates.



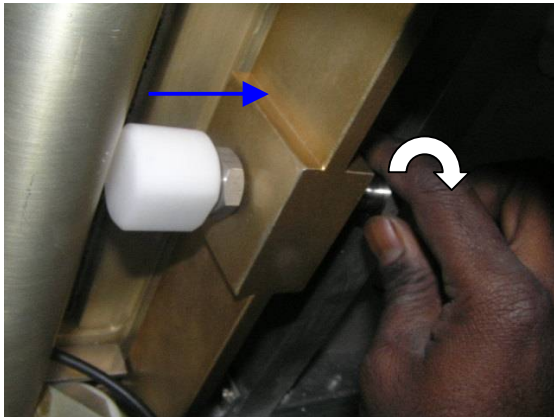
Use the Same Allen bolts with washer, which is part of the FRU to fasten the dead stopper assembly through guide cover plate.



Tighten the bolt with the washer to fasten the dead stopper assembly held by guide cover plates.



Check for two Allen bolts side-by-side one bolt fastened to tabletop structure to hold guide cover plate and one bolt fastened to dead stopper assembly through guide plate.

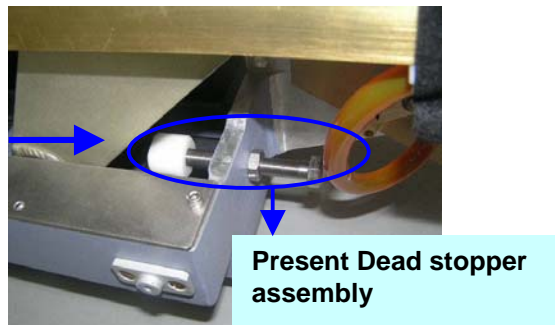
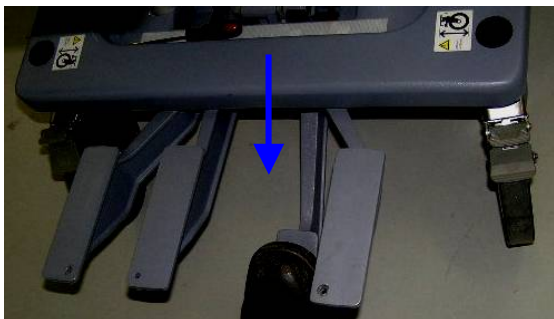


Note: 6) Ensure the new dead stopper assembly in the fully retracted condition by turning the bolt as shown. This will help setting the height of the table

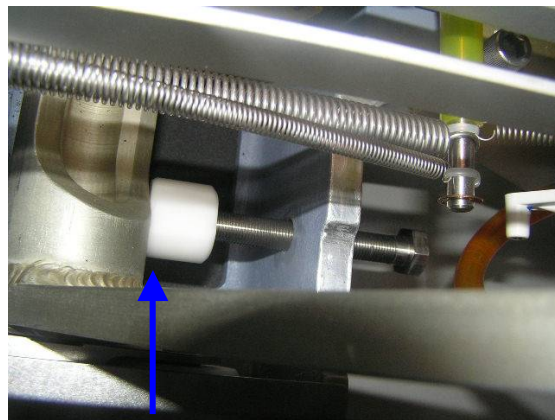
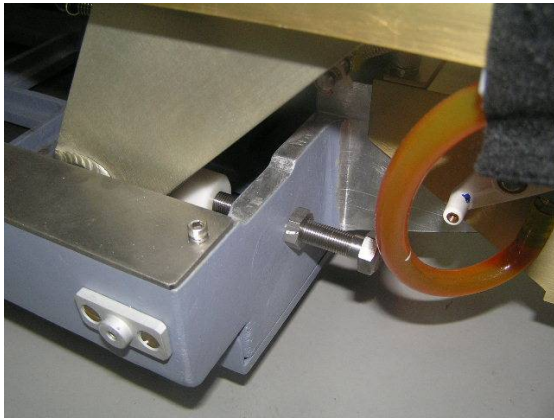


The Dead stopper assembly orientation in the tabletop structure after assembly.

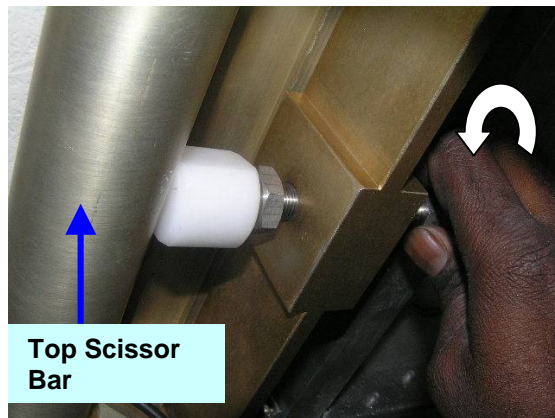
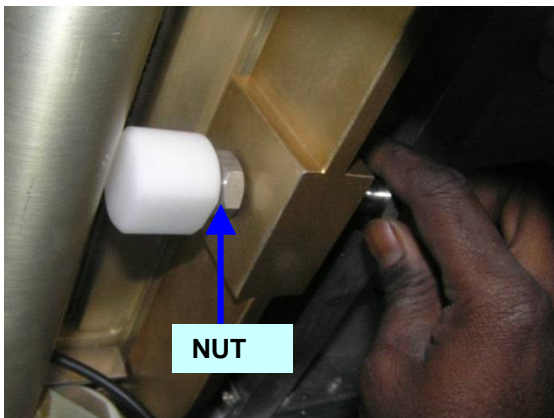
STEP-5: Table height adjustment using the new dead stopper assembly



Press the up pedal till the table just reaches its up limit position and flushes with previously adjusted dead stopper assembly for the table up limit position to take it as reference for setting the new dead stopper assembly.



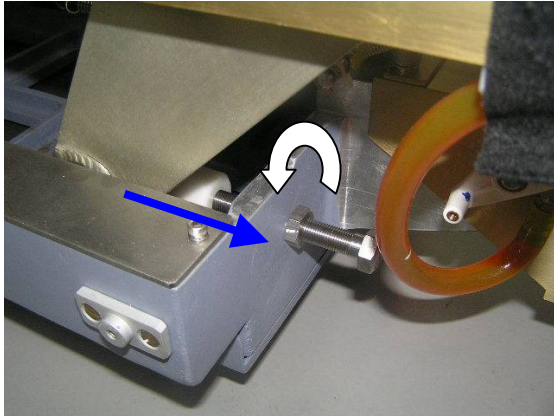
Caution!! Ensure not to pressurize the lifting cylinder by over pedaling and scissor mechanism just reaches and flushes with the previously set present dead stopper assembly



Loosen the nut by holding the bolt and turn the bolt till the mechanical stopper flushes with the top scissor bar.



Tighten the nut using 18/19 spanner and the New Dead stopper assembly is adjusted in the table top structure.



Note: 7) Ensure to fully retract the present dead stopper assembly, so that the Vertical height adjustment of the table will be done with the new Dead stopper assembly placed in the tabletop structure.

STEP-6: Patient Transport Top Height and Lateral Adjustment when docked to Magnet.

Patient transport top Height adjustment Procedure:



Cradle Rolling Surface

Take the table inside the MR bay and dock the table to the dock unit set to Infinity or Normal Table, check for leveling of cradle-rolling surface of the table and the bridge using the spirit level. **If Vertical height is having difference then Table requires height adjustment follow the below steps:**

Note: 8) Measure the bridge height and make a note of the value.

Note: 9) Next bring the patient transport out of the magnet room.

Note: 10) Bring the table down by 5 inches by pressing the down pedal, so that the scissors moves away from the dead stop.

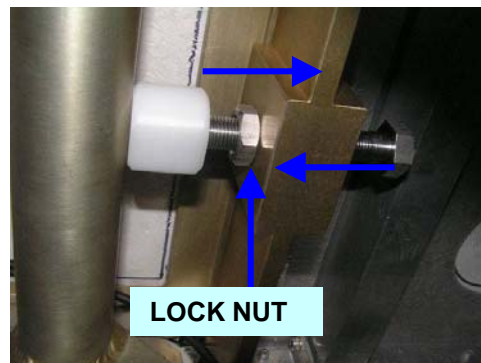


LOOSENING THE UPCABLE NUT
ILLUSTRATION 6.1



ADJUSTING UPSENSOR CABLE
ILLUSTRATION 6.2

Loosen the up-sensor cable by loosening the nut, using pliers and rotate the screw. Refer illustration 6.1 & 6.2.



Loosen lock nut and Use a spanner to carefully adjust patient transport height by adjusting the adjustment bolt of new dead stopper assembly forward or backward as shown to set the correct height of the table with respect to bridge height noted as per the note-7.

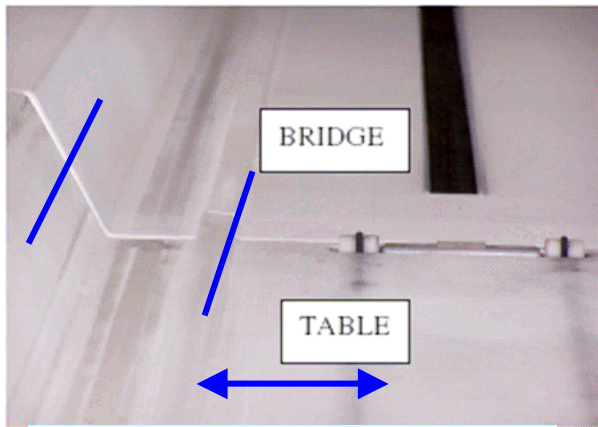
Note: 11) Pump the table up and measure the table height, repeat the last step again if required to obtain the required table height. After the required height is obtained, tighten the locknut to lock the dead stop position.

Note: 12) Rotate the up sensor cable adjustment screw for fine-tuning and setting the top condition. Refer illustration 6.1 & 6.2. Rotate nut till cable is having no slackness.

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Patient transport Lateral adjustment Procedure:



CORRECT LATERAL ALIGNMENT

Take the table inside the MR bay and dock the table to the dock unit set to Infinity or Normal Table and Check for the lateral alignment of the table and the bridge if alignment is ok go to Step 7.

If the alignment is not ok follow the below steps (Also refer Installation manual 2377125TPH Rev 3 Section 5.2)

If adjustment is required, loosen screws on dock support brackets, move dock to proper position, and tighten screws. See Illustration 6.3 for location of dock support brackets

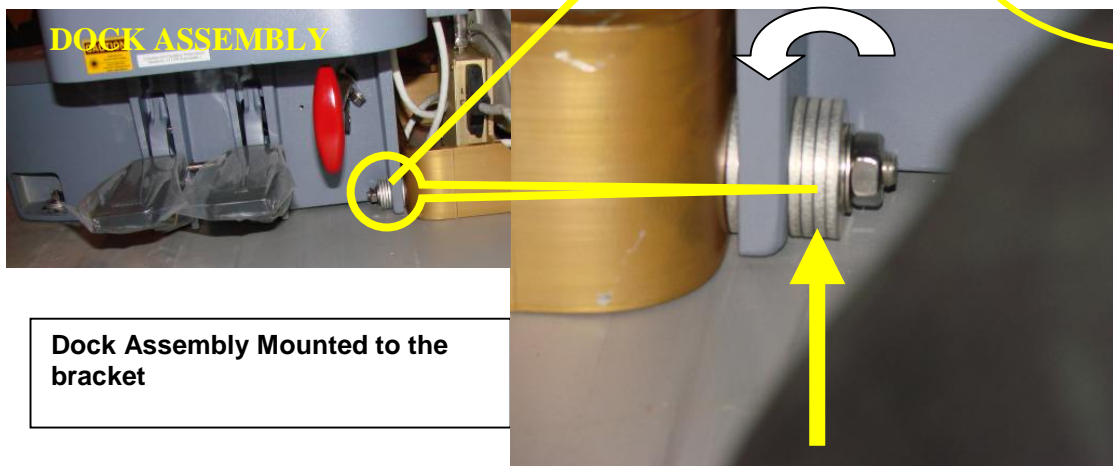
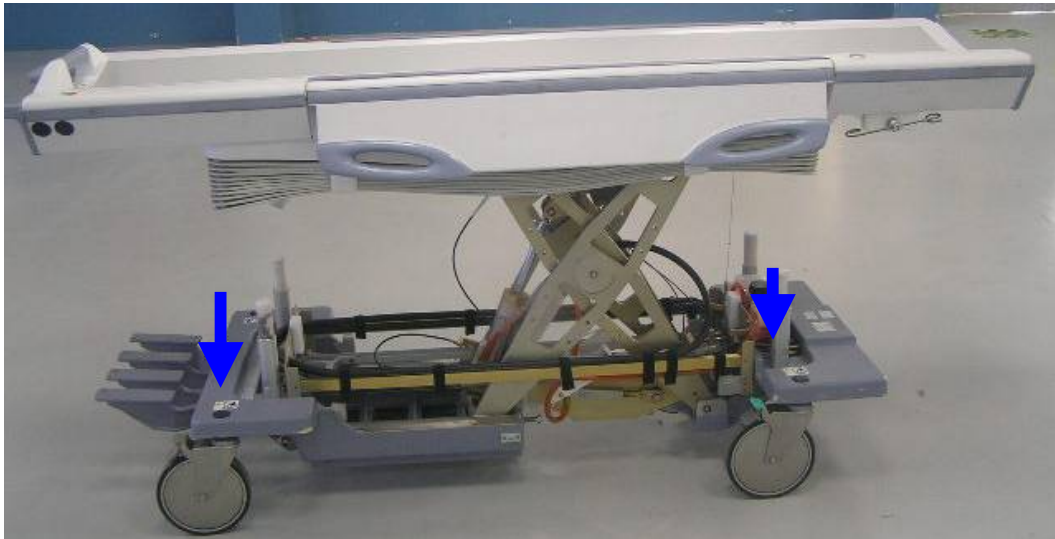


ILLUSTRATION 6.3

After dock adjustment is done dock the Signalite/Hde table and check for the Lateral alignment with Bridge if it is ok go to Step 7

STEP-7: Bring Down the bellows and assemble bellows and Bottom Covers to the base of the table (Also refer Service Methods manual 2377126TPH Rev 2 Section 3)



Bring down the bellows press the bellow Velcro's to lock with hook and fasten the bellows and bottom covers with the screws as shown.

STEP-8: Final Check:

NOTE 13: Caution!!! Re-inspect the total table for proper fasteners put in proper places; ensure all the parts put back in same locations as previously before disassembling the table.
Docking and undocking of the table to be checked in MR bay

STEP-9: Return the table to the MR ROOM and perform all table functional checks.

25. REPLACEMENT OF PINCHGUARD AND ARMBBOARD BUMPERS:

25.1 Scope:

These instructions have to be followed for replacement of the New Pinch Guard and Arm Board Bumpers in the field.

NOTE: SERVICE OF THE TABLE SHALL BE DONE OUT OF THE MAGNET ROOM



**WARNING!!
PERSONAL INJURY POSSIBILITY! WHEN PERFORMING MAINTENANCE OR REPLACEMENT OF PARTS ON THE TABLE, ENSURE THAT ALL FOUR CASTER WHEELS TO BE LOCKED BEFORE SERVICING, ALSO DO NOT LOAD THE TABLE DURING MAINTENANCE.**



25.2 Tools and Parts list:

Tools required for Disassembly and Assembly of parts

- Allen Keys: 3/32
- Minus Screw Driver
- Rubber Mallet
- Flat Screw Driver
- J-Roller (Optional)

Consumables

- White petroleum jelly (Biolin/Vaseline)
- IPA (Iso propyl alcohol) **check if you are authorized to use IPA, based on your EHS norms.**



New Parts



NEW PARTS LIST:

- | | |
|--------------|--|
| 1) 5165064 | New Pinch Guard– HDMR-2 table (M3335 KF) |
| 2) 5165064-2 | New Pinch Guard – Signa Infinity table (M1090 TK) |
| 3) 5165064-3 | New Pinch Guard – HDe table (M3335 TF) |
| 4) 5165064-4 | New Pinch Guard – Signa Lite table (M1090 TM) |
| 5) 5191719 | New Arm Board Bumper– HDMR-2 table (M3335 KF) |
| 6) 5191719-2 | New Arm Board Bumper – Signa Infinity table (M1090 TK) |
| 7) 5191719-3 | New Arm Board Bumper – HDe table (M3335 TF) |
| 8) 5191719-4 | New Arm Board Bumper – Signa Lite table (M1090 TM) |

Obsolete Parts

Old Pinch Guard



Old Arm board Bumper



OBSOLETE PARTS LIST:

- 1) 5145943 Old Pinch Guard– HDMR-2 table
- 2) 46-271017P3 Old Pinch Guard – Signa Infinity table
- 3) 5145943 Old Pinch Guard – HDe table
- 4) 46-271017P3 Old Pinch Guard – Signa Lite table

- 5) 5145936 Old Arm Board Bumper– HDMR-2 table
- 6) 2332967-2 Old Arm Board Bumper – Signa Infinity table
- 7) 5145967 Old Arm Board Bumper – HDe table
- 8) 2335206 Old Arm Board Bumper – Signa Lite table

NOTE:

ENSURE PROPER COLOR COMPONENT USED BASED ON THE COLOR OF THE TABLE.

FRU KIT PARTS:

1) Pinch guard FRU Kit parts:

New FRU Kit Parts #	New Part Description
5214978	New Pinch guard and Arm Board Bumpers FRU Kit for Signa Ilte Table
5215476	New Pinch guard and Arm Board Bumpers FRU Kit for Signa Infinity Table
5215397	New Pinch guard and Arm Board Bumpers FRU Kit for HDMR-2 Table
5215652	New Pinch guard and Arm Board Bumpers FRU Kit for HDe Table

2) Arm Board Bumper FRU Kit parts:

New FRU Kit Parts #	New Part Description
5257699	New Arm Board Bumpers FRU Kit for Signa Ilte Table
5257697	New Arm Board Bumpers FRU Kit for Signa Infinity Table
5257698	New Arm Board Bumpers FRU Kit for HDMR-2 Table
5257700	New Arm Board Bumpers FRU Kit for HDe Table

**NOTE:
THESE PARTS TO BE ORDERED FROM GPO FOR FIELD REPLACEMENT.**

25.3 Disassembling Procedure of Old Pinch Guard and Arm Board Bumper:

STEP-1: Remove both L.H and R.H Arm boards



Remove the Arm boards



CAUTION!!! Ensure that the Arm Boards are held properly and does not fall off

STEP-2: Checking of New Pinch guard Mounting gap and Removal of Old Pinch guard from Table top FRP



Peel the pinch guard from tabletop.



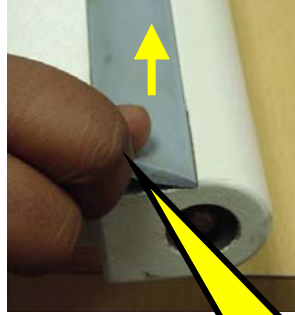
Peel off the Old pinch guard from tabletop FRP slowly as shown without damaging FRP surface

Remove the old pinch guard fully .



CAUTION! Do not damage the FRP Surface while removing the Old Pinch Guard

STEP-3: Old Arm Board Bumper removal from Arm board



Arm Board without Old Arm board bumper

Peel off the Old Arm board Bumper from Arm Board slowly as shown by pulling arm board bumper

25.4 Procedures to install New Pinch Guard and New Arm Board Bumper

New Pinch Guard Assembling Procedure:

STEP-1: Clean the Tabletop FRP at the Pinch guard Assembling area



Pinch Guard seating area

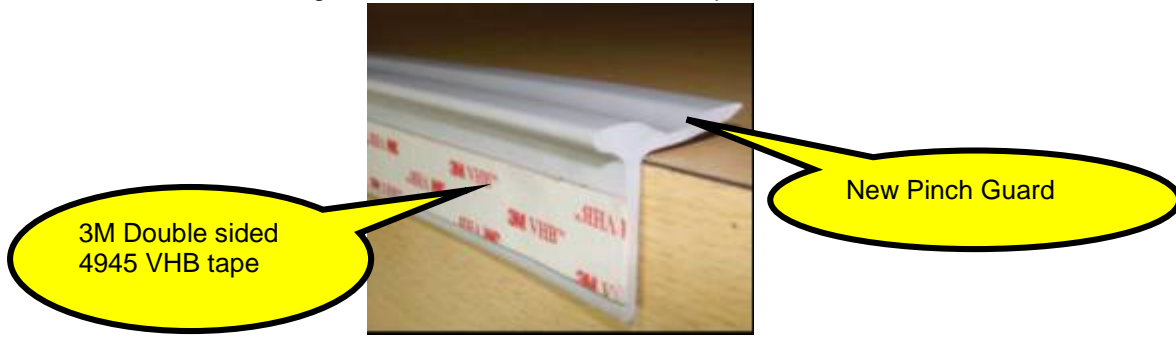


Clean the Pinch guard Seating Area with IPA (Iso Propyl Alcohol) using cotton waste.



CAUTION! Do not damage the FRP Surface while cleaning the tabletop FRP

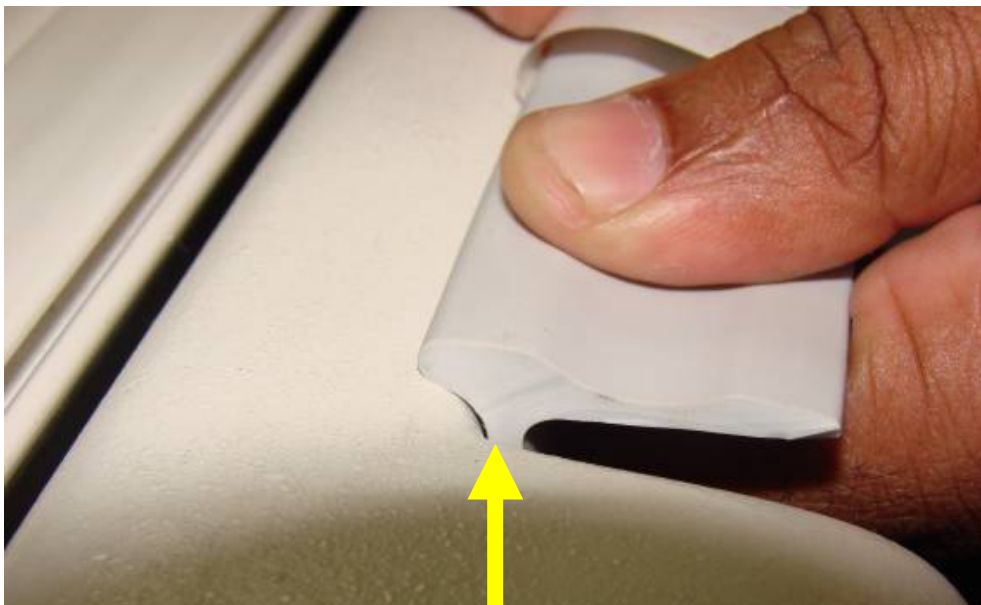
STEP-2: Assembling the New Pinch Guard to Tabletop FRP



New Pinch Guard with glued 3M double-sided VHB Tape



Remove outer liner of the adhered VHB tape for short distance as shown



Paste the pinch guard to the tabletop FRP matching the radius at One end as shown, This procedure to be followed over full length



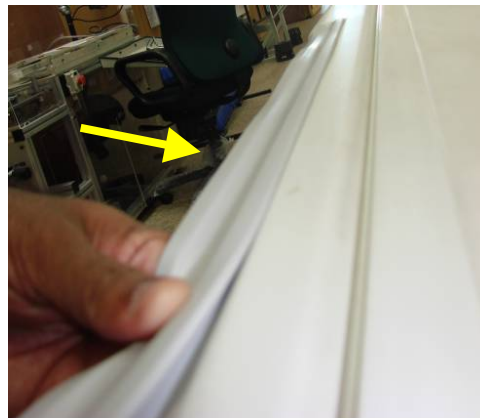
CAUTION!!! Ensure backside profile of the pinch guard matches with the FRP as shown over full length of FRP



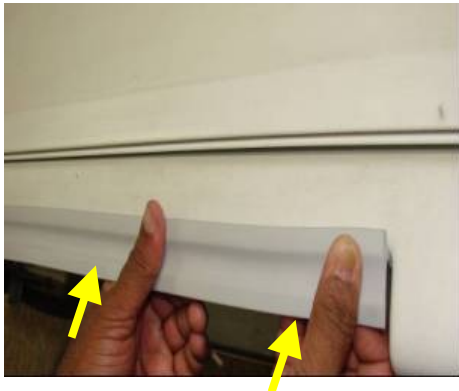
After fixing the New Pinch guard at one end, fully remove the outer liner as shown from 3M VHB tape



CAUTION!!! Slowly remove the VHB tape outer liner.



Paste the pinch guard to the tabletop FRP as shown and maintain the uniformity in pasting the pinch guard profile to the tabletop over full length



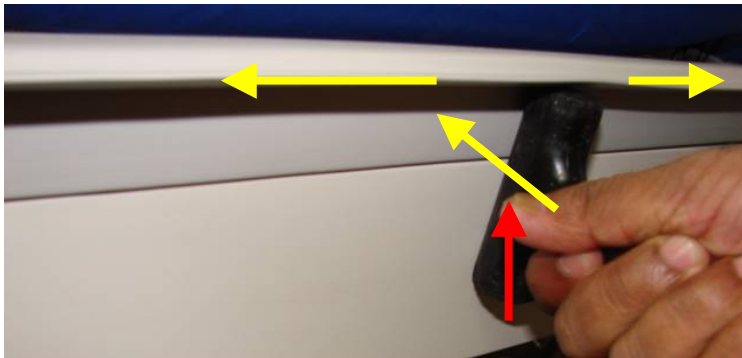
CAUTION!!! Ensure backside profile of the pinch guard butts with the FRP properly, it should be straight all along the length and there should be no unevenness while gluing, if unevenness observed after gluing the component can be unglued immediately and can be glued properly before applying pressure, before step 3.



STEP-3: Applying pressure on double sided tape for better adhesion of Pinch Guard



Pressure to be applied on this Pinch guard surface over full length

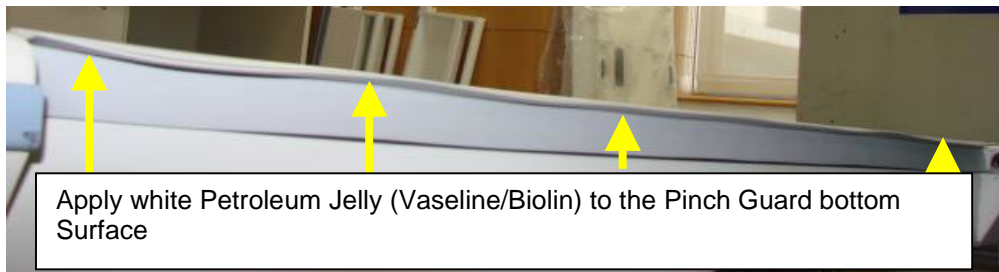


NOTE: Apply adequate pressure on the pinch guard surface around 10 times over full length using the round surface of the Plastic mallet (Suitable Plastic tool can be used)



CAUTION!! The pinch guard contains pressure sensitive adhesive and applying pressure is required to achieve good adhesion

STEP-4: Apply white Petroleum Jelly to the Pinch guard bottom Surface



NOTE: Wipe the bottom surface of the Pinch Guard with white Petroleum Jelly (Vaseline/Biolin) as shown to avoid Initial friction between the Arm board Bumper surface and the New Pinch Guard.

Same Procedure to be followed for assembling New Pinch Guard on other side of tabletop FRP

25.5 New Arm Board Bumper Assembling Procedure:

STEP-1: Clean the Arm Board at the Arm board Bumper Assembling area



Clean the new arm board bumper-seating region with emery paper to remove the residue of previous Glue (**Note:** you will find hardened glue residue on this surface) After cleaning with emery paper use IPA to clean the surface

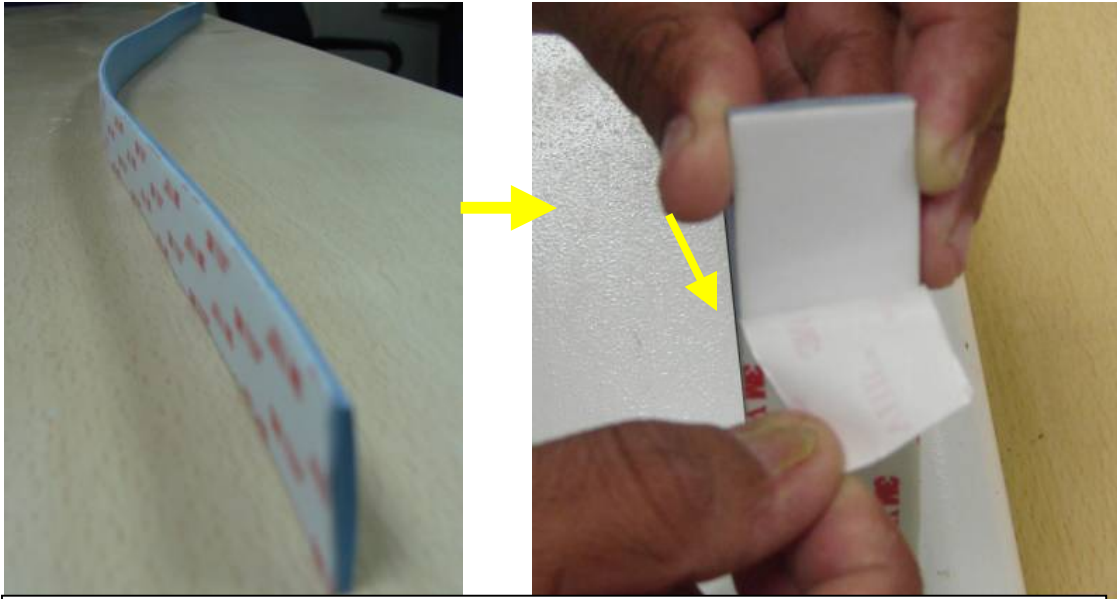
STEP-2: Assembling the New Arm board Bumper to Arm Board



New Arm Board Bumper

3M Double sided 4945 VHB tape

New Arm Board Bumper with glued 3M double-sided VHB Tape



Remove outer liner of the adhered VHB tape as shown sequentially while placing the arm board bumper in the arm board slot as shown in the following pages

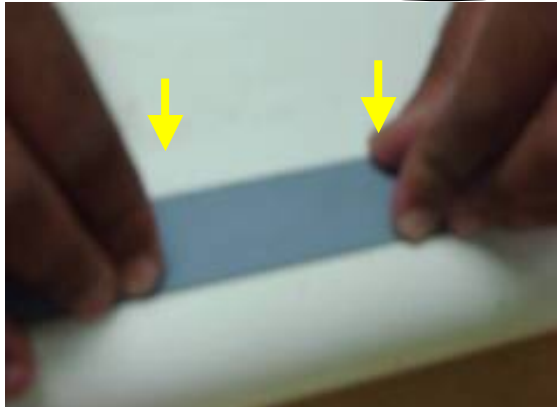


CAUTION!!! Slowly remove the VHB tape outer liner.

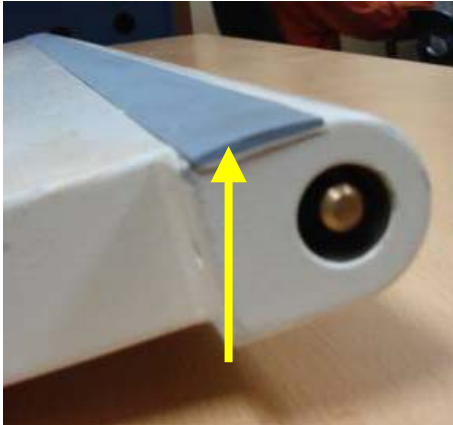


Paste the New arm board bumper with Adhesive to the arm board exactly matching to the edge as shown

Exactly match the arm board bumper to this edge



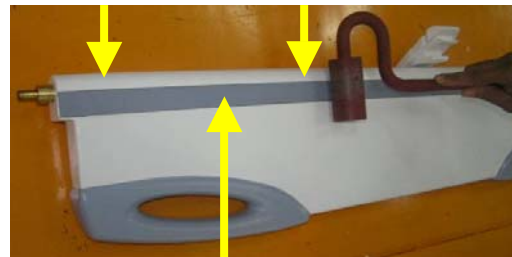
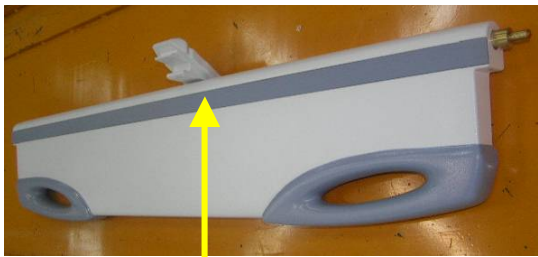
Press the arm board bumper after aligning correctly in the slot as shown



CAUTION!!! Ensure new arm board bumper with adhesive sits in the slot properly without unevenness.

Assemble the arm board bumper over full length as shown

STEP-3: Applying pressure on double sided tape for better adhesion of New Arm Board Bumper



Pressure to be applied on this New Arm board surface over full length

NOTE: Apply adequate pressure on the New Arm Board bumper surface around 10 times over full length using the round surface of the Plastic mallet (Suitable Plastic tool can be used).



CAUTION!! The pinch guard contains pressure sensitive adhesive and applying pressure is required to achieve good adhesion

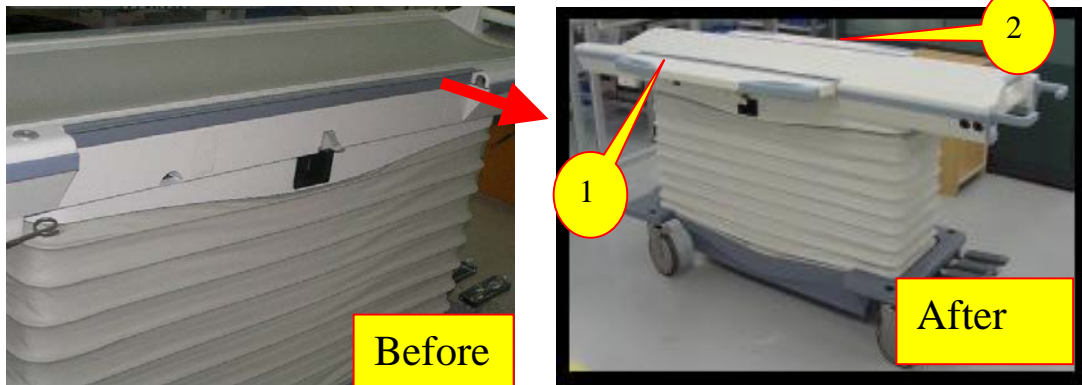
STEP-4: Apply white Petroleum Jelly to the arm board bumper surface.



Note: Wipe the Top surface of the New Arm board Bumper with white Petroleum Jelly (Vaseline/Bioline) as shown to avoid Initial friction between the Arm board Bumper surface and the New Pinch Guard.

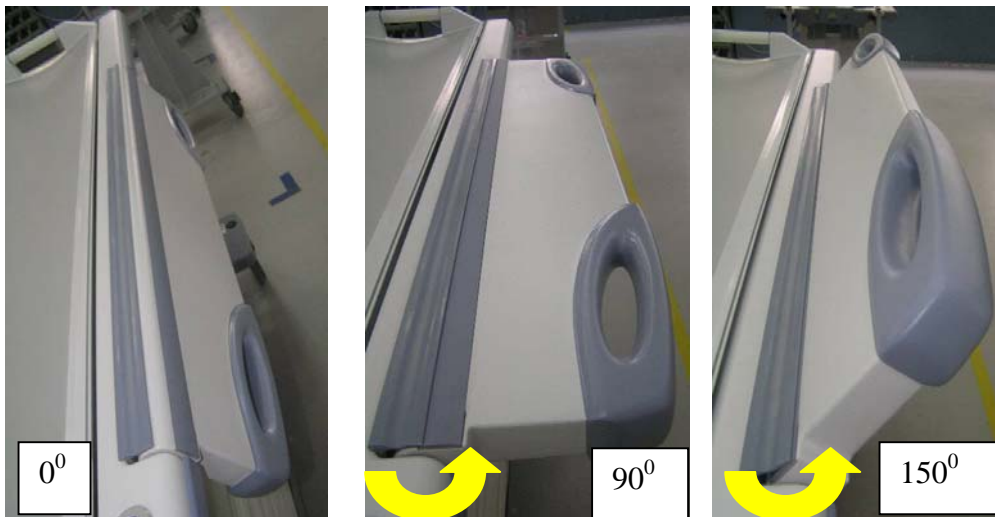
Same procedure to be followed for the other side of the table (Arm Board Bumper and Pinch guard)

STEP-5: Assemble both L.H and R.H Arm boards



PUT BACK THE BOTH L.H AND R.H ARM BOARDS AS SHOWN AFTER ASSEMBLING THE ARM BOARDS WITH NEW ARM BOARD BUMPERS

STEP-6: Final Check:



NOTE: Flex the both the arm boards around 5 times to the maximum lock position and ensure the locking of arm boards is proper.



Caution!!!!!!!!!! Re-inspect the total table and arm boards for proper functioning; ensure all the parts put back in same locations as previously before disassembling the table. Docking and undocking of the table to be checked in MR bay

STEP-7: Return the table to the MR ROOM

26. REPLACEMENT OF DOCK LINK ASSEMBLY:

26.1 Scope:

These instructions have to be followed for placement of the *Dock Link Assembly* in Signalite and Hde(Value 1.5T) table in the field.

NOTE: SERVICE OF THE TABLE SHALL BE DONE OUT OF THE MAGNET ROOM



WARNING!!
PERSONAL INJURY POSSIBILITY! WHEN PERFORMING MAINTENANCE OR REPLACEMENT OF PARTS ON THE TABLE IN ITS UP POSITION, ENSURE THAT ALL FOUR CASTER WHEELS TO BE LOCKED BEFORE SERVICING AND SAFETY LOCK BAR IS IN PLACE (SEE STEP-2 UNDER PROCEDURES TO INSTALL NEW FIELD FIX DEAD STOPPER ASSEMBLY). SEVERE PERSONAL INJURY CAN OCCUR IF TABLE IS ACCIDENTALLY LOWERED DURING SUCH SERVICE ACTIVITY. ALSO DO NOT LOAD THE TABLE DURING MAINTENANCE.

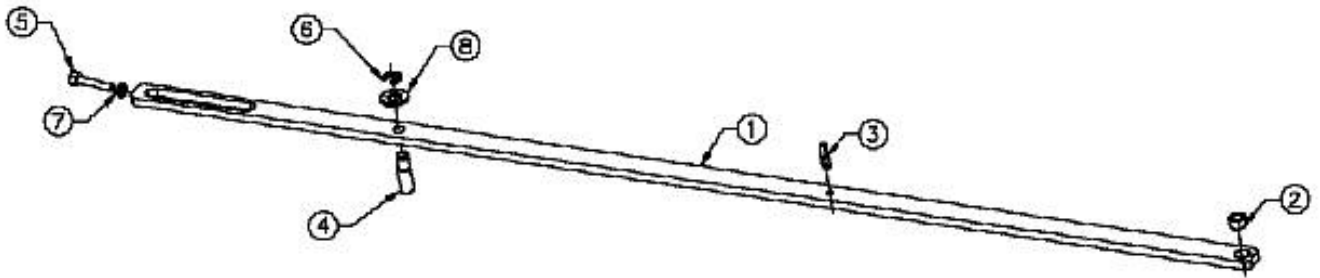


26.2 Tools list:
Basic Tools required



- Screw Driver
- 10/11 Spanners
- 1/8 Allen Key

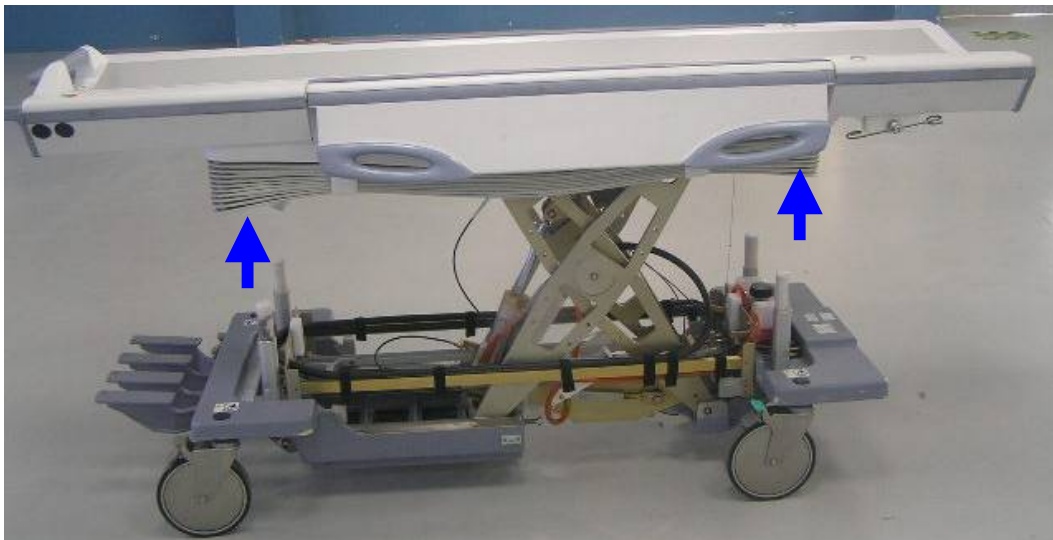
3. New Dock Link FRU Kit Assembly:



Refer Drawing 5267100 ADW for above parts in e-PDM and this part is a FRU can be ordered in GPO.

26.3 Disassembling Procedure:

STEP-1: Remove Bottom Covers and Lift the bellows. (Also refer Service Methods manual 2377126TPH Rev 2 Section 3)



Remove the bottom covers and lift the bellows as shown and lock the Velcro's loop to the hook so that bellows retained in the upper most position

STEP-2: Engage the safety latch bar. (Also refer Service Methods manual 2377126TPH Rev 2 Section 5)

Refer steps below for procedure of engaging the safety latch bar.
Unhook Safety latch bar by pulling the lock pin knob outward, (Refer Illustration 2.1 and 2.2), and engage it towards the casting, by Pressing the down pedal until lock bar fully supports table top, follow illustration 2.3 and 2.4



ILLUSTRATION 2.1



ILLUSTRATION 2.2



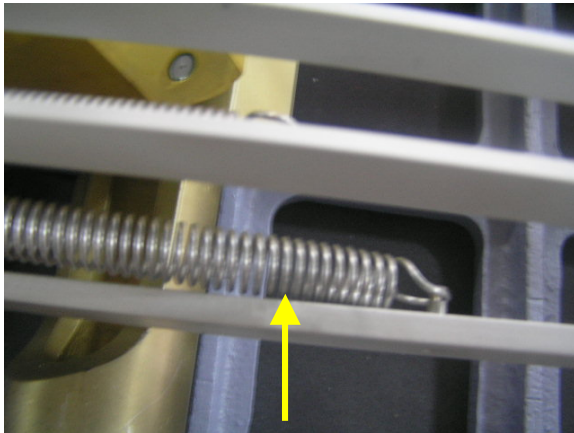
Caution: Ensure Safety latch bar fully engaged to cast base as shown in illustration 2.4!!

STEP-3: Removal of Old Dock Link Assembly from table:

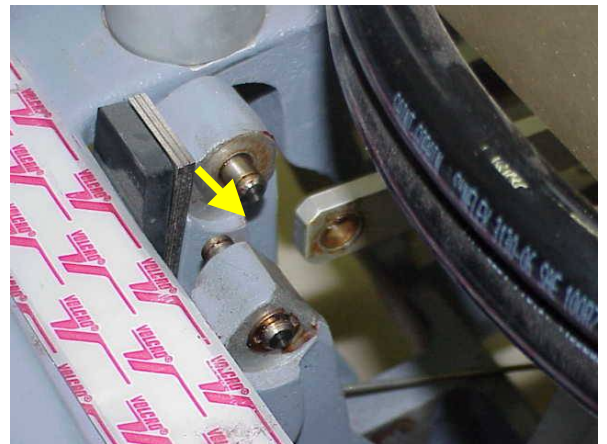
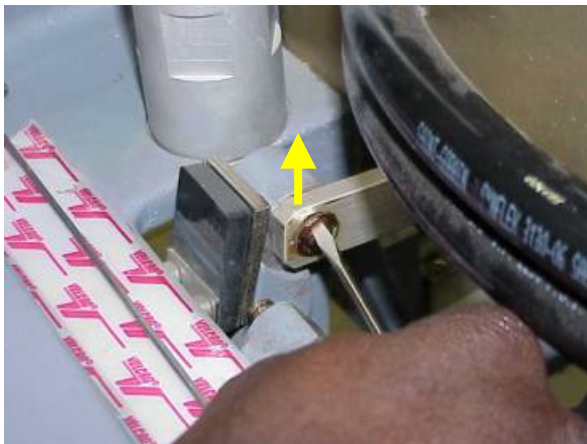


Measure the Screw set position in the Old Dock Link assembly and record.

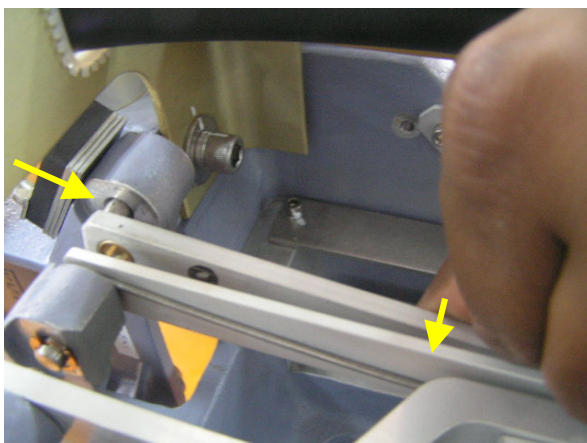
Note: After assembling new Dock link Assembly same dimension needs to be adjusted.



Remove the spring from the dock link Assembly by hand.



Remove the circlip from the Dock link near the Dock pedal. Press the dock pedal for easy removal and handling. Use sharp corner of screwdriver for Circlip removal)

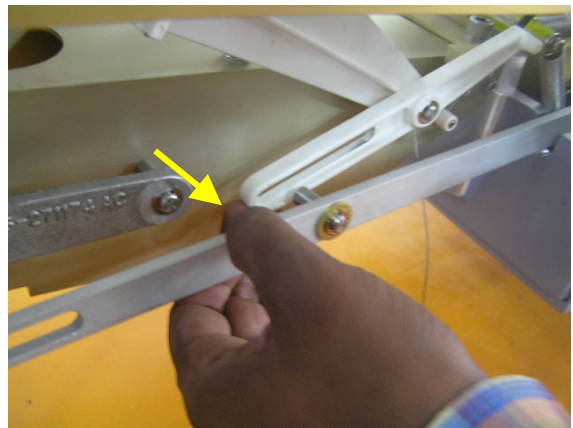


Remove the dock link after removal of circlip by hand.

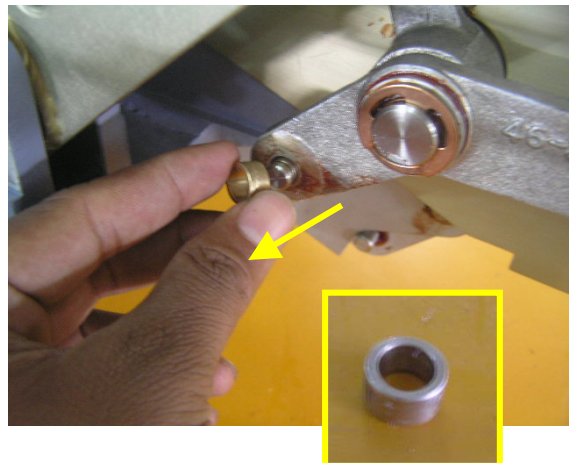
Note: Ensure the shaft is not removed from the casting.



Remove the Circlip and washer from the assembly as shown.



Remove cir clip and washer of dock assembly in front side as shown above to remove the dock link from front side of lower base assembly.



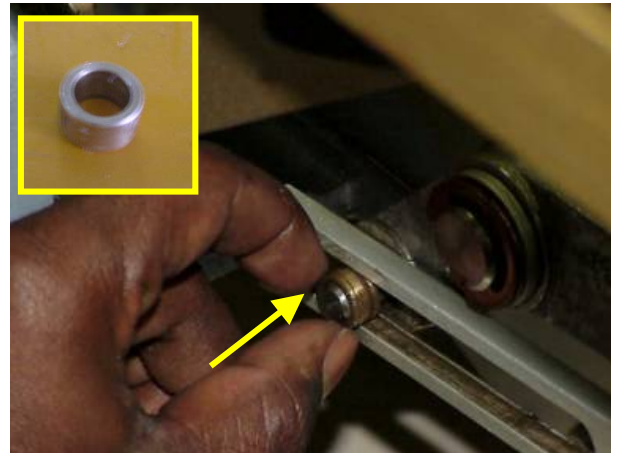
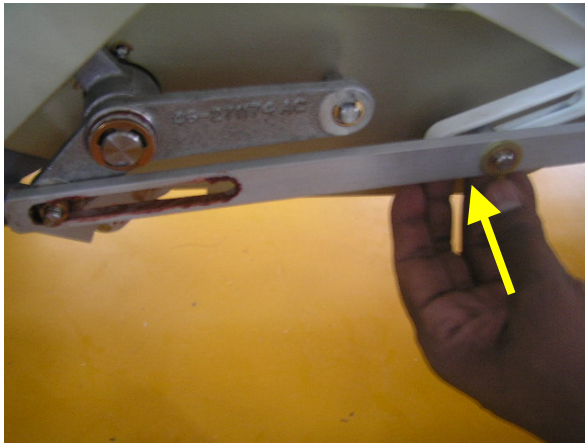
Remove the brass bush as shown and keep it safely.

26.3 Assembly Procedure:

STEP-1: New Dock Link Assembly to Lower base of Table:



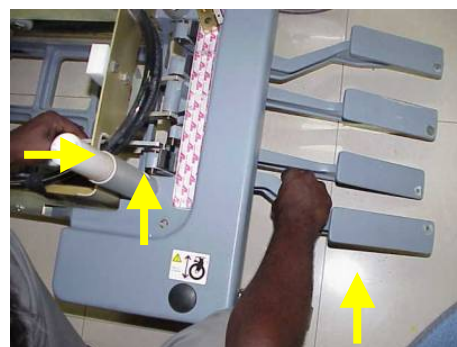
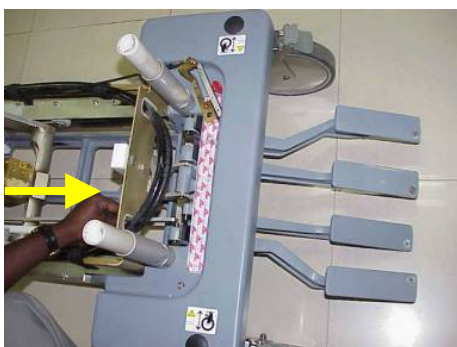
Take out the New Dock Link Assembly from FRU kit.



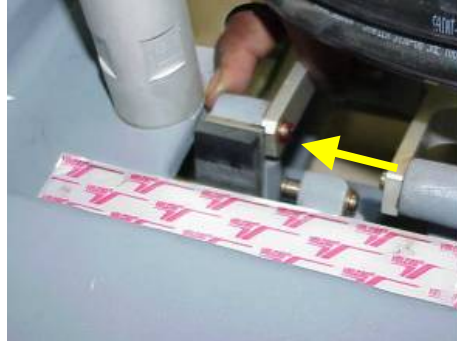
Align the New dock link assembly in the slot and then holding the dock link assembly insert the Bush as shown



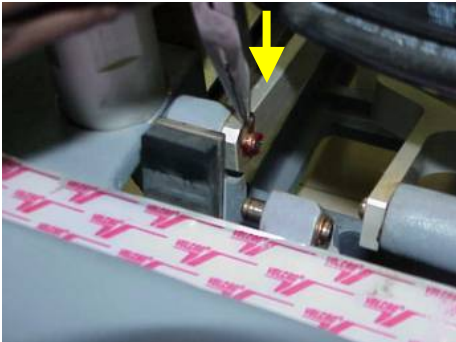
Assemble the removed washer and the circlip as shown.



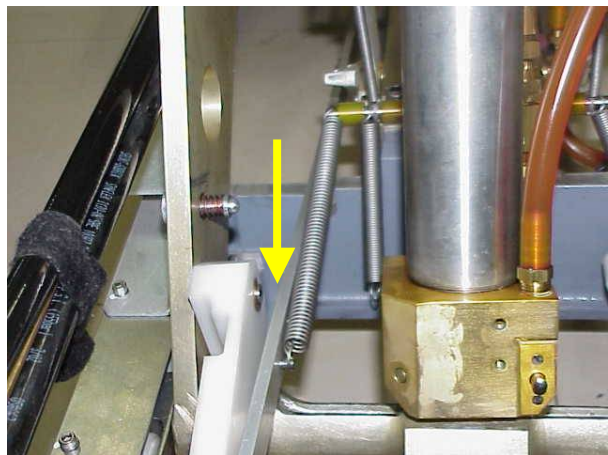
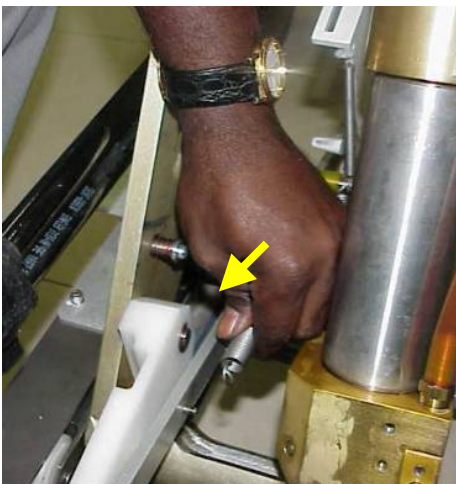
Align the dock pedal and dock link to push the pin inside the dock link.



Push the pin and link as shown



Put the cir clip to lock the link as shown.



Place the dock link spring in its Position by pulling.

STEP-2: Adjustment offset screw Dimension



Measure the Dimension of screw setting and adjust as per details recorded earlier as per the old dock link Assembly

Note: Ensure no play in Dock pedal after completing above setting.

STEP-3: Final Check:

NOTE: Caution!!! Ensure all the parts put back in same locations as previously before disassembling the table. Docking and undocking of the table to be checked in MR bay for five times if Docking of table is not happening set the dock hook tension as per the [Section 4](#) of Installation Manual 2377125

STEP-4: Return the table to the MR ROOM and perform all table functional checks.

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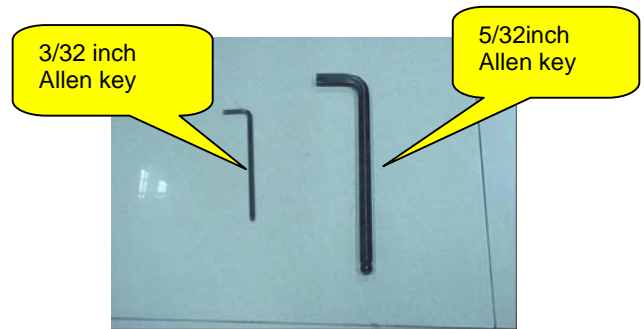
27. REPLACEMENT OF CRADLE HANDLE:

27.1 Undock patient table, and move it out of MR room.

27.2 Invert the cradle and place on a flat surface as shown below



27.3 Tools used for Cradle Handle Replacement.



a) Screw driver.

b) 3/32 inch Allen key

c) 5/32 inch Allen key

Part List:

Old Cradle Handle



New Cradle Handle



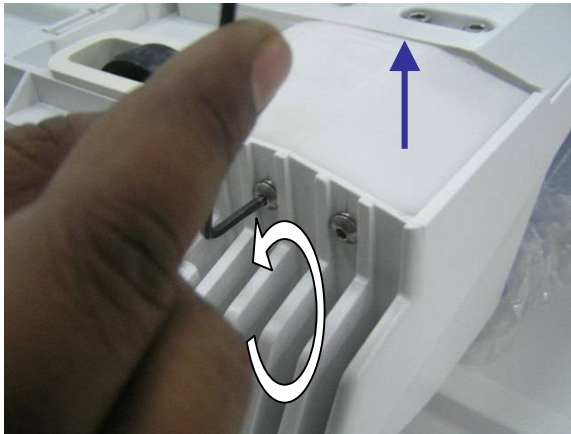
OBSOLETE PARTS LIST:

- 1) 5145972 Old Cradle Handle – HDe table
- 2) 2297479-2 Old Cradle Handle – Signa Lite table

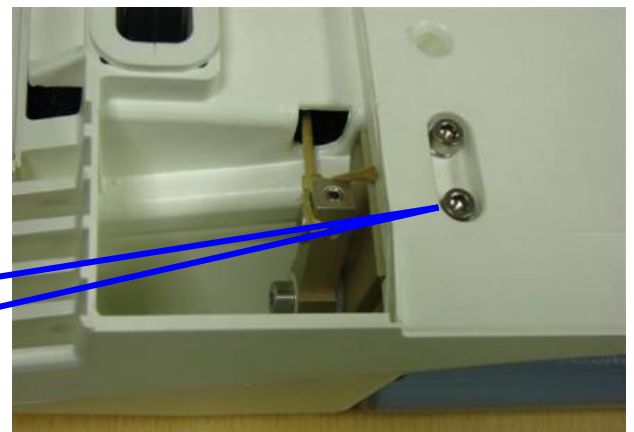
NEW PARTS LIST:

- 1) 5233775 New Cradle Handle – HDe table
- 2) 5233775 New Cradle Handle – Signa Lite table

**27.4 Disassembling Procedure:
Steps for Disassembling Handle:**



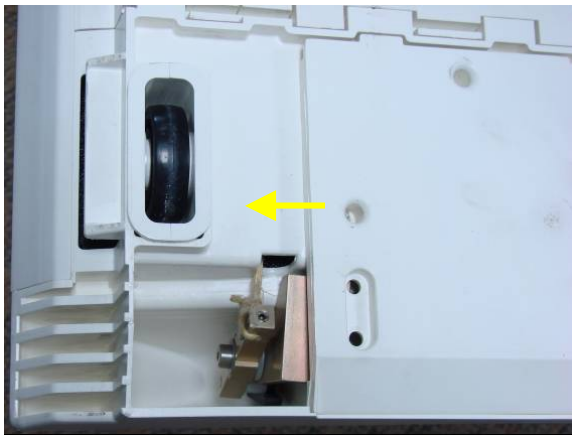
Remove the Cover to access the handle twisting Mechanism by removing the screws as shown below



Loosen the allen screws:

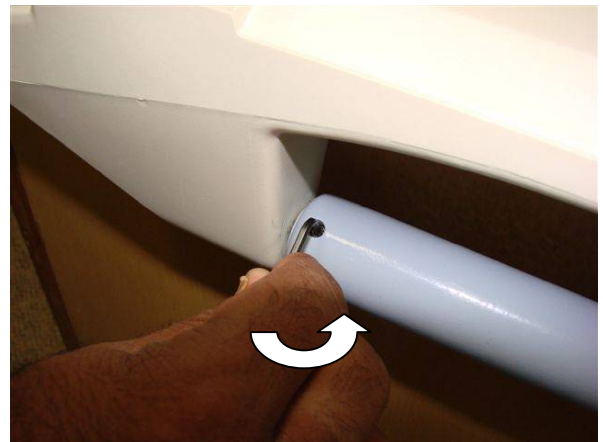
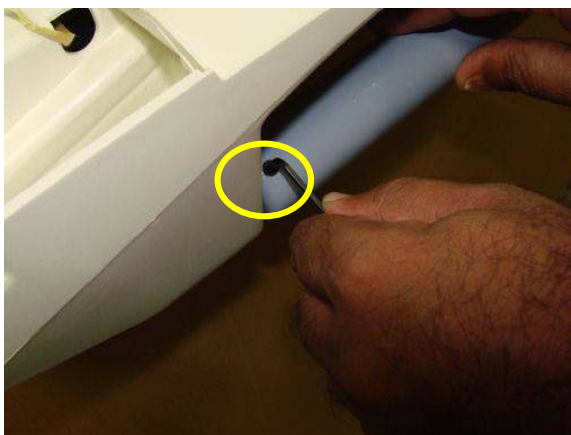


Loosen the Allen screws and Remove the screws and washers and keep it safely

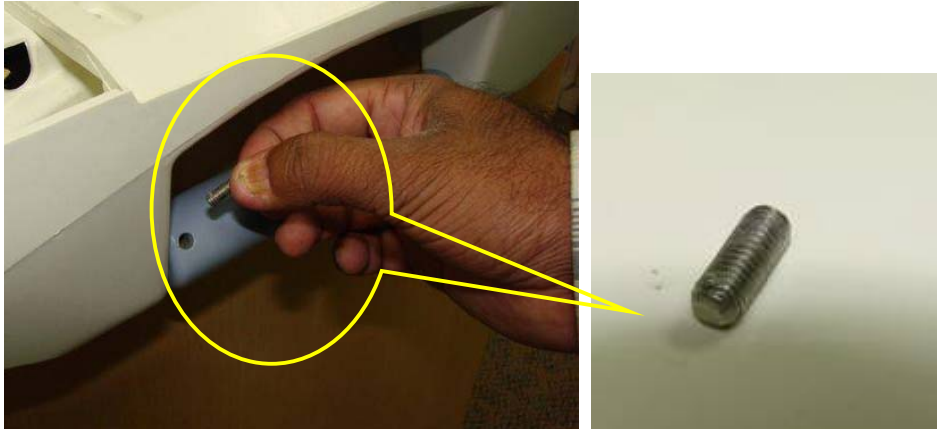


Slide the Link Mechanism and takeout and keep it on the Cradle.

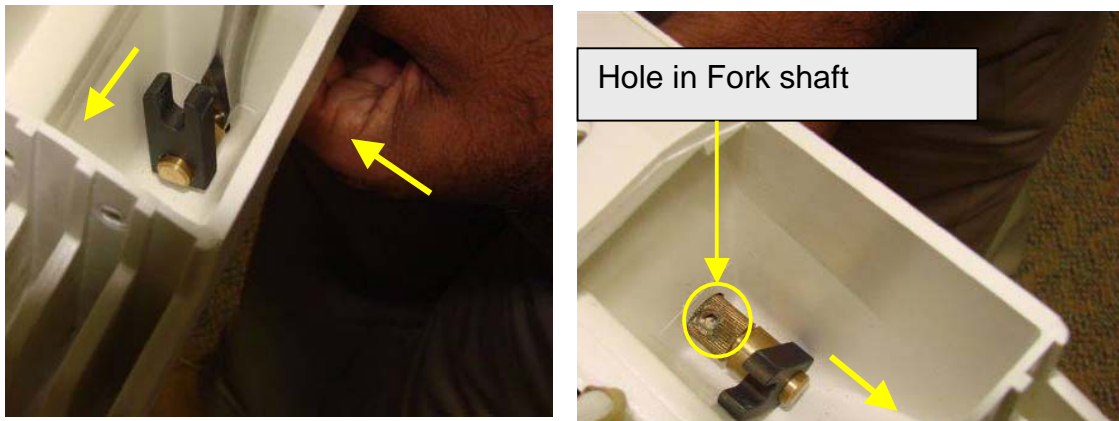
Note: Do not disturb or remove the Kevlar cord knot from link mechanism.



Remove the grub screw from the old cradle handle using 3/32 allen key



Keep the grub screw in safe place



By holding the handle and using the screwdriver push the fork shaft assembly as shown.

Note: Do not disturb or change the hole orientation of the fork shaft assembly.

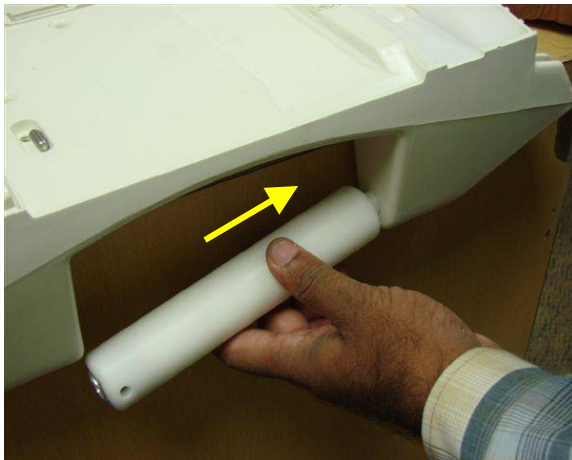


Pull out the Cradle Handle as shown from the Cradle rear section.

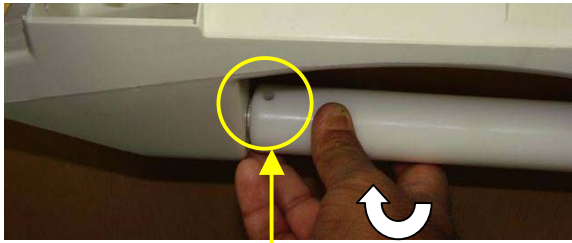
**27.5 New Cradle Handle Assembly Procedure:
Steps for New Cradle Handle Assembly:**



Take out the new handle and orient the handle towards cradle rear section as shown.



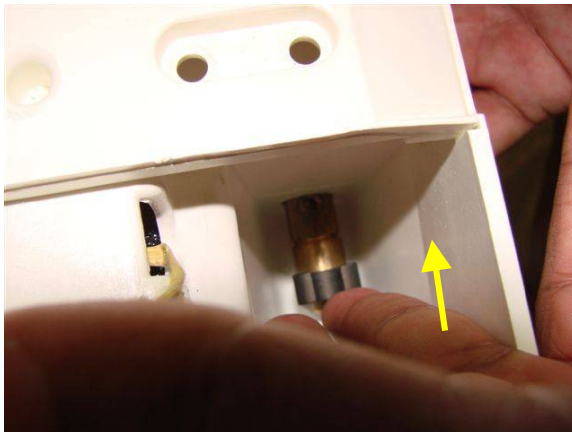
Push the new handle boss inside the hole as shown and align the other side lock the handle



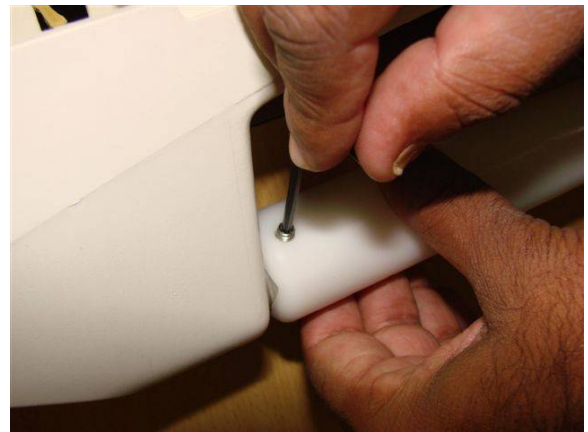
Grub screw holding hole



Orient the grub screw holding hole of the cradle handle in line with the hole in the fork shaft assembly as shown by rotating handle.

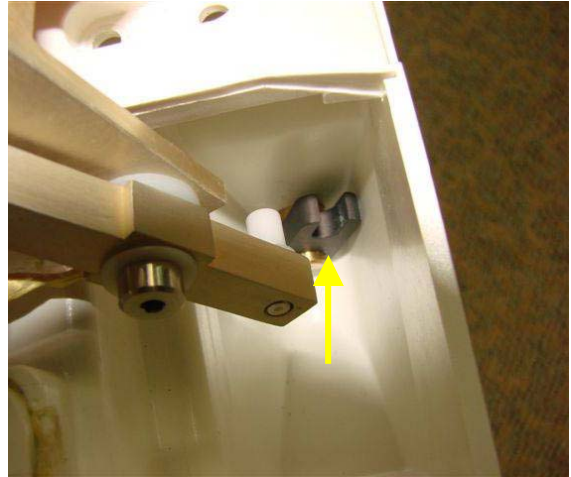
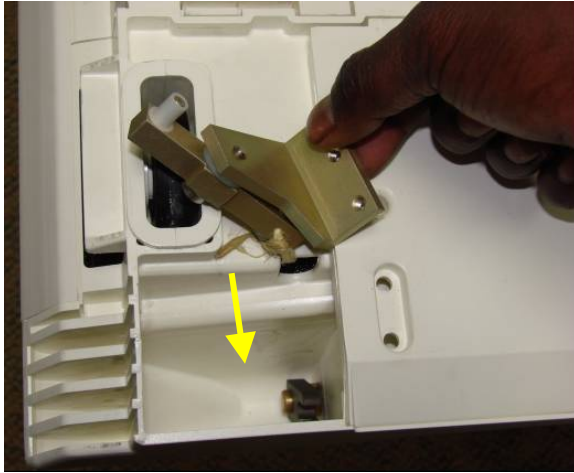


Then push the fork shaft assembly inside the handle matching fork shaft hole with that of the cradle handle grub screw-holding hole

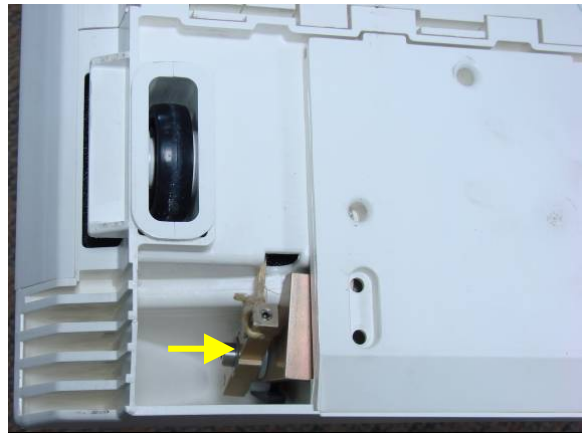


Place the grub screw inside the handle hole and tighten the grub screw using 3/32 Allen key to hold the handle with fork shaft assembly

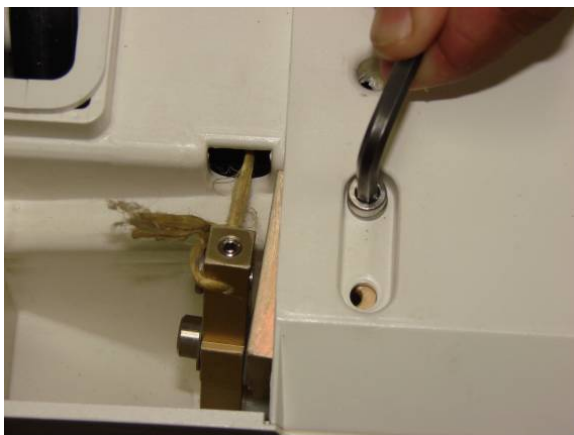
Note: Ensure proper tightening of Grub screw



Bring down the link mechanism and align with fork slot as shown below



Align the link with the fork and Then push the link mechanism as shown.

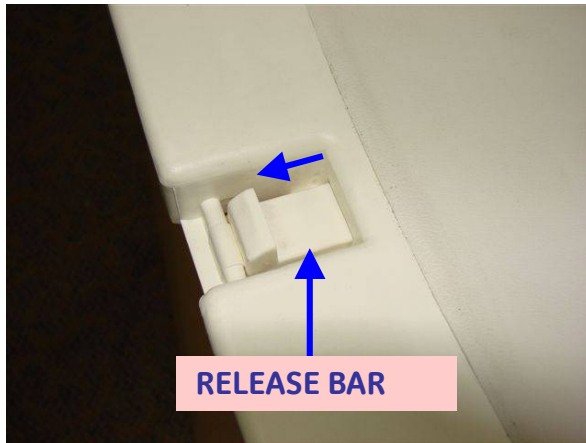
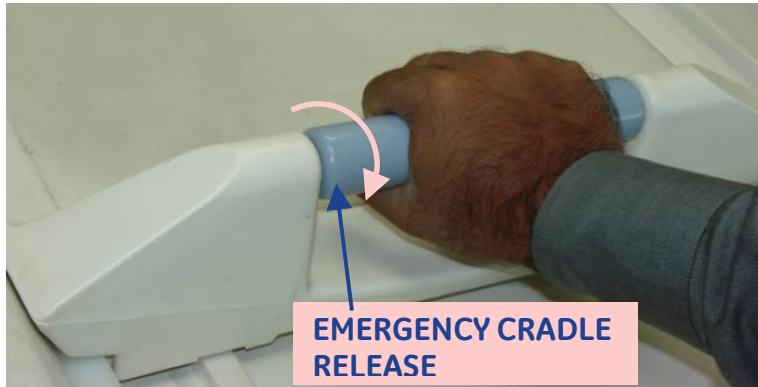


Put back the Allen screw with washer using 5/32 allen key.

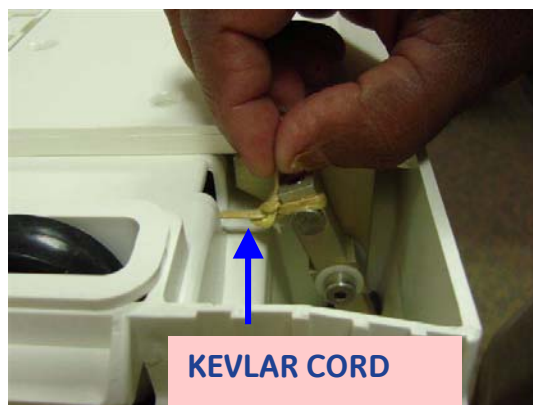
Rev: 4 (Jan 04 2008)

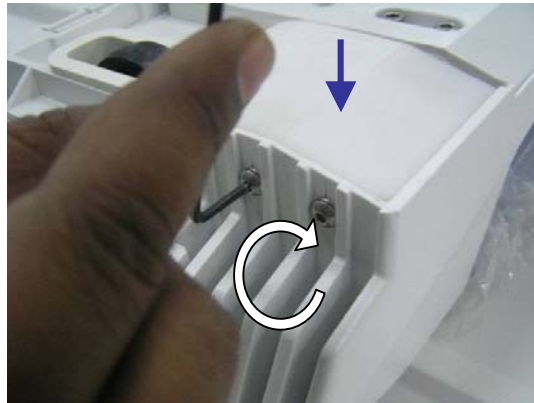
Doc No.2377126

Check for release bar extension when handle twisted fully and the release bar should extend as shown and it must retract fully flushing with front section when handle was left free.



Note: If both the cases are not met, Adjust the Kevlar cord tension of the cradle assembly as explained in the section 23





Put back the cover as shown.

Assemble the Cradle Assembly back on table and Return the table to the MR ROOM and perform all table functional checks

ANNEXURE

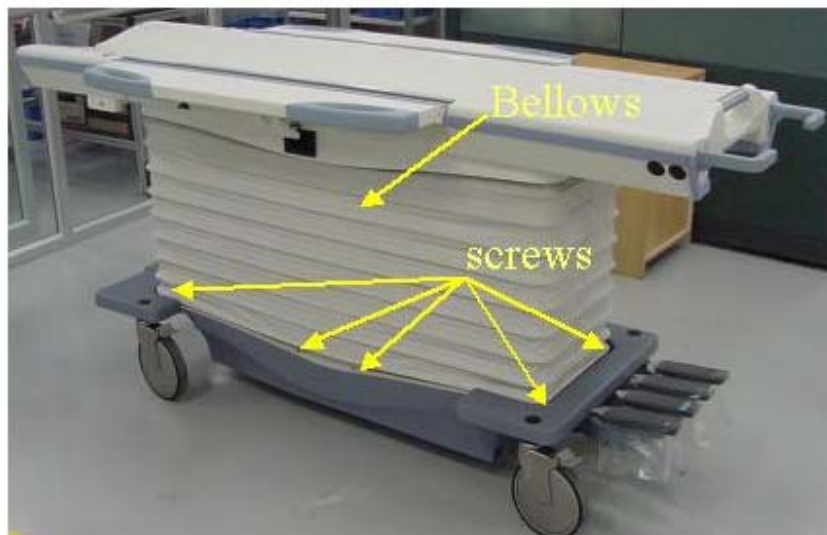
ANNEXURE 1.

The below Procedure holds good for Signalite tables with the following Table SI. Nos. only 2815WH9, 2816WH7, 2817WH5, 2818WH3, 2819WH1, 2820WH9, 2821WH7.

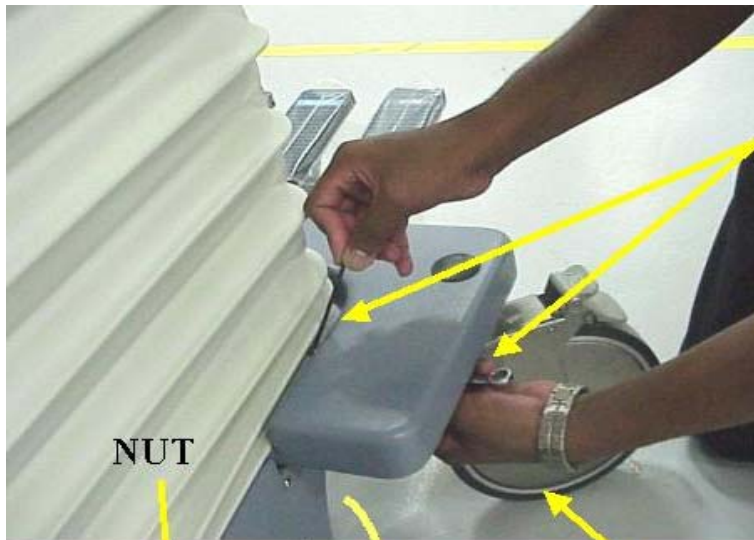
1. PULLING UP OF BELLOWS TO SERVICE POSITION

See ILLUSTRATION A for location of Bellow on patient table and its Attached hardware.

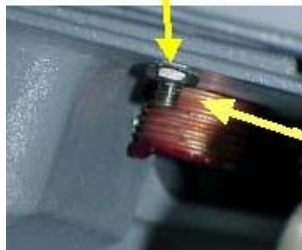
- 1.1 Undock patient table, and move it out of MR room.
- 1.2 Remove the 8 screws on either side of the table as shown in illustration A (the Screws on the other side are not shown). Note: The 4 corner screws fixing the bellows on the casting is fixed using a nut, to remove these insert an Allen key into the screw head and rotate the nut using a spanner, refer to illustration B.
- 1.3 Remove all screws and disengage the bottom rim of the bellows from the Velcro.



**BELLOWS SCREW REMOVAL
ILLUSTRATION A**



HOLD THE NUT
USING A SPANNER
WHILE REMOVING
THE SCREW



Note: for more accessibility
the castor wheel can be
rotated to position shown

ILLUSTRATION B

- 1.4 Lift Bellows upwards, and using the Velcro straps provided at the top inside (2 Straps on each side), and 1 strap each on the front and rear side (folded and placed inside refer to illustration C) unfold the Velcro straps and fasten the bellows at the top by supporting it as shown refer illustration D and E.



ILLUSTRATION C

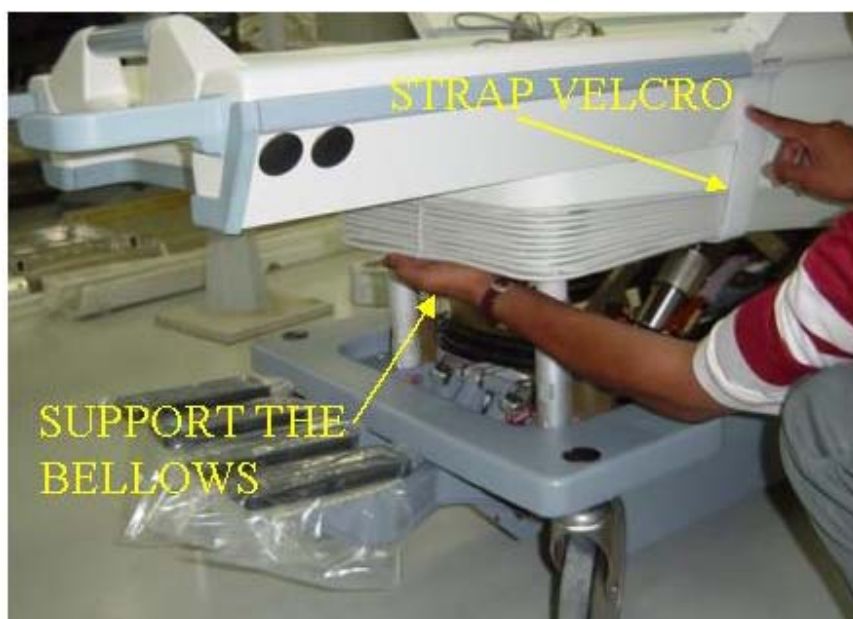


ILLUSTRATION D



**FASTENING OF BELLOWS TO SERVICE POSITION
ILLUSTRATION E.**



CAUTION!

DO NOT MOVE THE TABLE UP/DOWN WHEN THE BELLOWS IS IN SERVICE POSITION.

2. MOVING BELLOWS TO WORKING/NORMAL POSITION.

2.1 Unfasten all the Velcro straps from the top condition and bring the bellows to bottom position.

2.2 Here make sure to fold back the velcro straps and fasten inside as shown in Illustration F, otherwise the Velcro strap can get entangled while the bellows is in Up / down motion.



ILLUSTRATION F

2.3 Next, position the bottom rim of the bellows on to the casting and fasten the Screws at the four corners firmly refer illustration A, B, and also fasten the screws connecting the bellows to the bottom cover, so that the bellows are fixed firmly Refer ILLUSTRATION G.



**FASTENING OF BELLOWS TO BOTTOM POSITION
ILLUSTRATION G**

ANNEXURE 2.

Note:

The below process is for table SI Nos 2816WH7, 2817WH5, 2818WH3, 2819WH1 which have and old design of reservoir.

1. HYDRAULIC FLUID LEVEL CHECK AND FILL

- 1.1 Move bellows to service/up position. (Refer Annexure 1).
- 1.2 Raise table top to FULL UP position.
- 1.3 Check hydraulic fluid level in reservoir at the oil level mark, Add fluid if necessary.
By removing the small cap, See Illustration H. Below.
- 1.4 Move the bellows back to normal working condition refer to Annexure 1 above.



**HYDRAULIC FLUID LEVEL CHECK
ILLUSTRATION H**