Elite XL
Lubrication Instructions

BEDT-ZN-101XL

BEVT-Z901CA

Proper Lubrication will help your machine last a long time and avoid costly repairs.

We've removed covers in some of the photographs to help show where to oil. We suggest that you may want to do the same- remove the cover to be sure that you're oiling the proper place. Then hold the cover in place and see how to point the oiler with the cover on.

ELITE XL Lubrication Chart

PART ID		LUBRICANT	Frequency
A1	Rotating Hook	Barudan machine oil or Clear (mineral) oil for sewing machinery	Every 4 to 6 hours of machine operation
B1	Drive Shaft	Barudan machine oil or Clear (mineral) oil for sewing machinery	Once per week
B2	Hook Shaft Bushings (2)		
B3	Needle Bars	Wipe lightly with cotton swab saturated in Barudan machine oil or Clear (mineral) oil	Once per month
C1	Needle Bar Crank Rod	Bearing oil * Note page 10	Once per week
C2	Take-up Drive Lever		
C3	* Needle Bar Drive Lever (2)		
C4	Needle Bar Drive Links (3)		
C5	Needle Bar Driving Shaft		
E1	Take-Up Lever	Lithium grease spray	Every 6 months
E2	Take-Up Lever Cam Groove		
E3	Presser Foot Cams (2)		
F1	Lower Connecting Gear	Wheel bearing grease	Every 6 months

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TYPES OF LUBRICANTS

Barudan America supplies Machine Oil and Bearing Oil with all new machines.
White Lithium Grease Spray must be purchased separately.

KF720110 BARUDAN MACHINE OIL

One can of Machine oil is included with each new machine, a good quality clear sewing machine oil may be substituted for this oil.

This oil should be poured into one of the following oilers before using on the machine:

Included with each machine is a squeeze oiler.

B12050 Tube Oiler

This oiler is included in the NBV Supply kit, or may be purchashed directly from Barudan America.

HB720110 BEARING OIL

This oil is specially formulated for Barudan embroidery machines, and is only available from Barudan. It is an opaque creamy beige color.

WHITE LITHIUM SPRAY GREASE

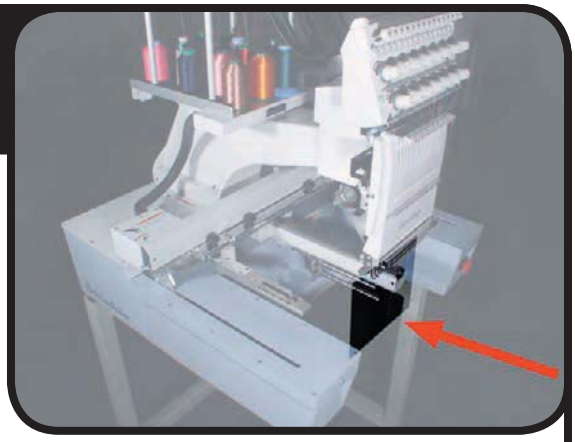
Due to Federal regulations on shipping of Aerosol cans, Barudan does not supply this lubricant, but it can be purchased at an Auto Parts store, at Walmart, or the K-mart Automotive department.

WHEEL BEARING GREASE

The grease already on the machine (for step F1 of the lubrication chart) should last without having to add more. If additional grease is needed, this can be purchased from an Auto Parts Store.

A1- Hook

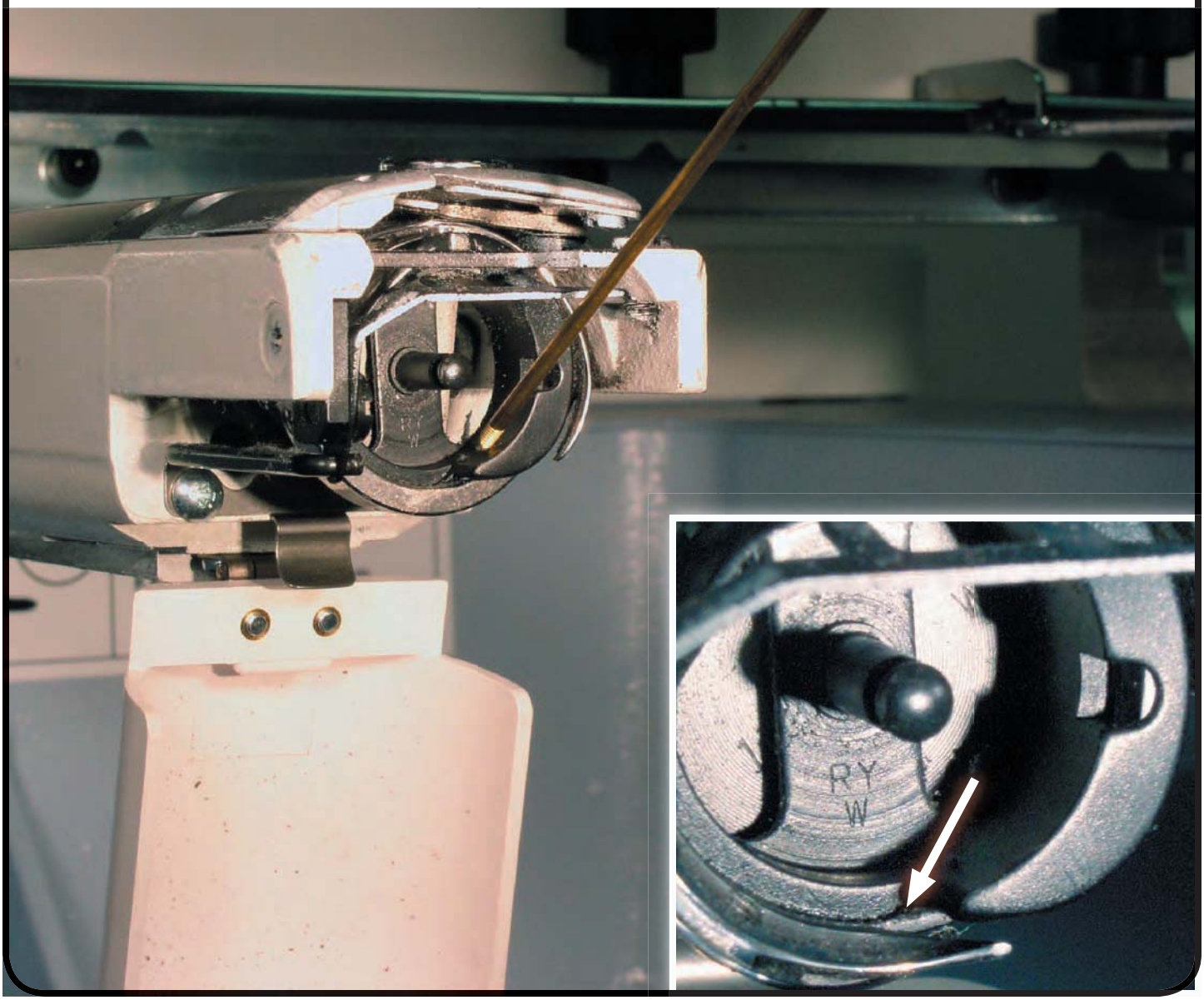
Machine Oil every 4-6 hours



Every 4-6 hours of machine operation, lubricate the Hook (A1) with Machine Oil:

1. Open the cover on the cylinder arm
2. Remove the bobbin & bobbin case
3. Place (1) drop of oil in the Hook raceway

NOTE: this photo shows the Tube Oiler- be sure to use clear Machine Oil

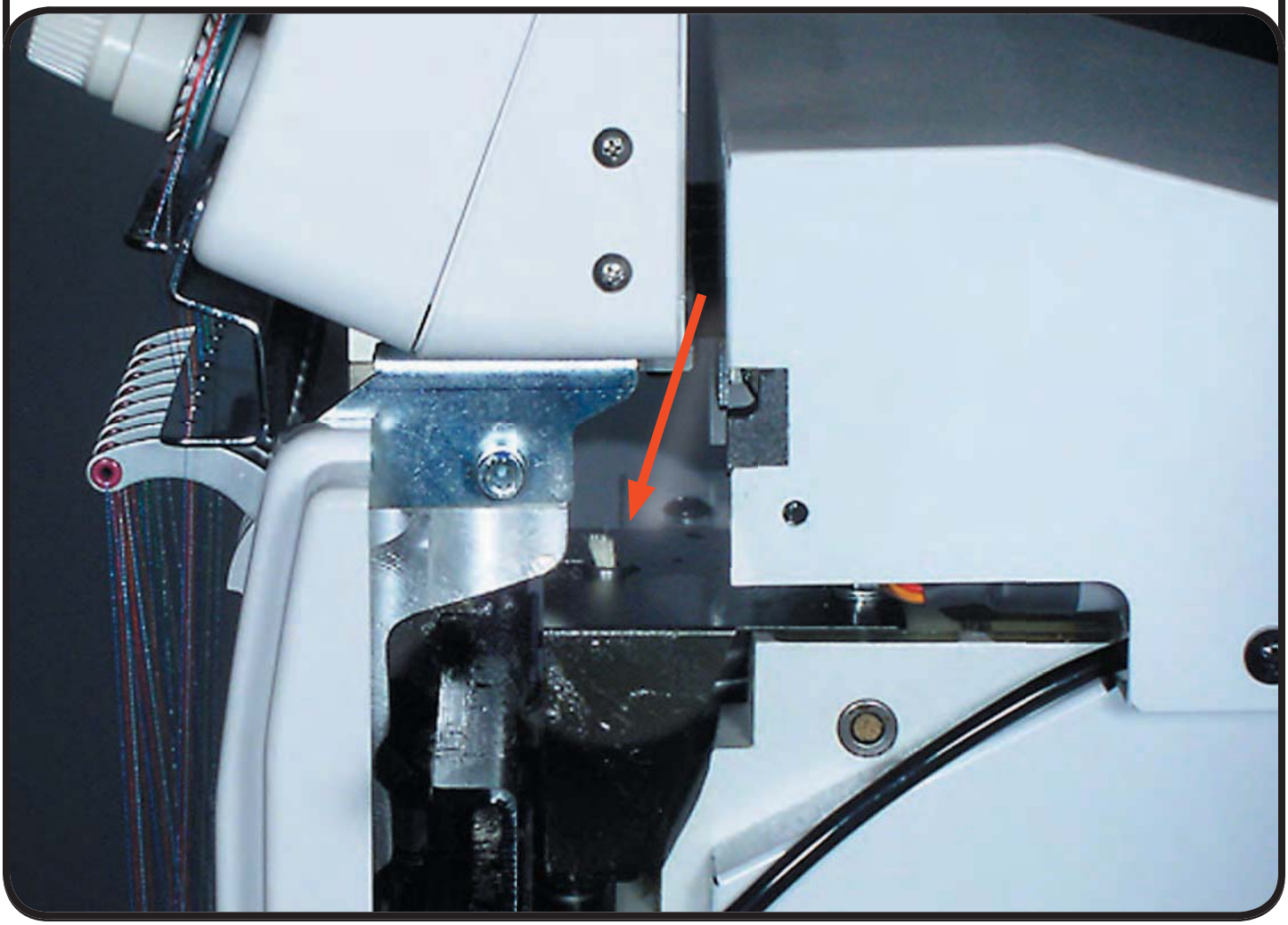


B1- Drive Shaft

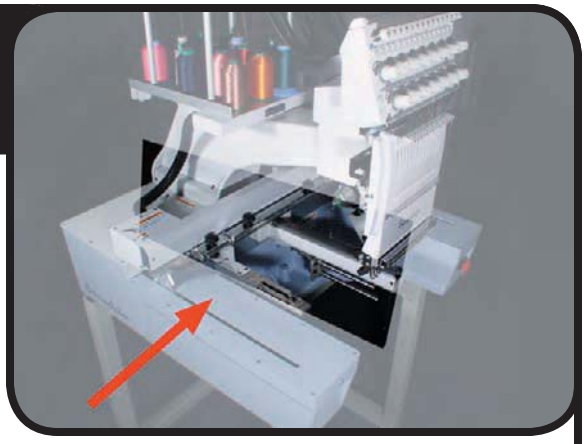
💧💧💧 Machine Oil once/week

Once a week, lubricate the Drive Shaft (B1) with Machine Oil:

1. Color Change the head to the last needle (#9)
2. Place (3) drops of oil in the shaft at the point where the wick enters the shaft

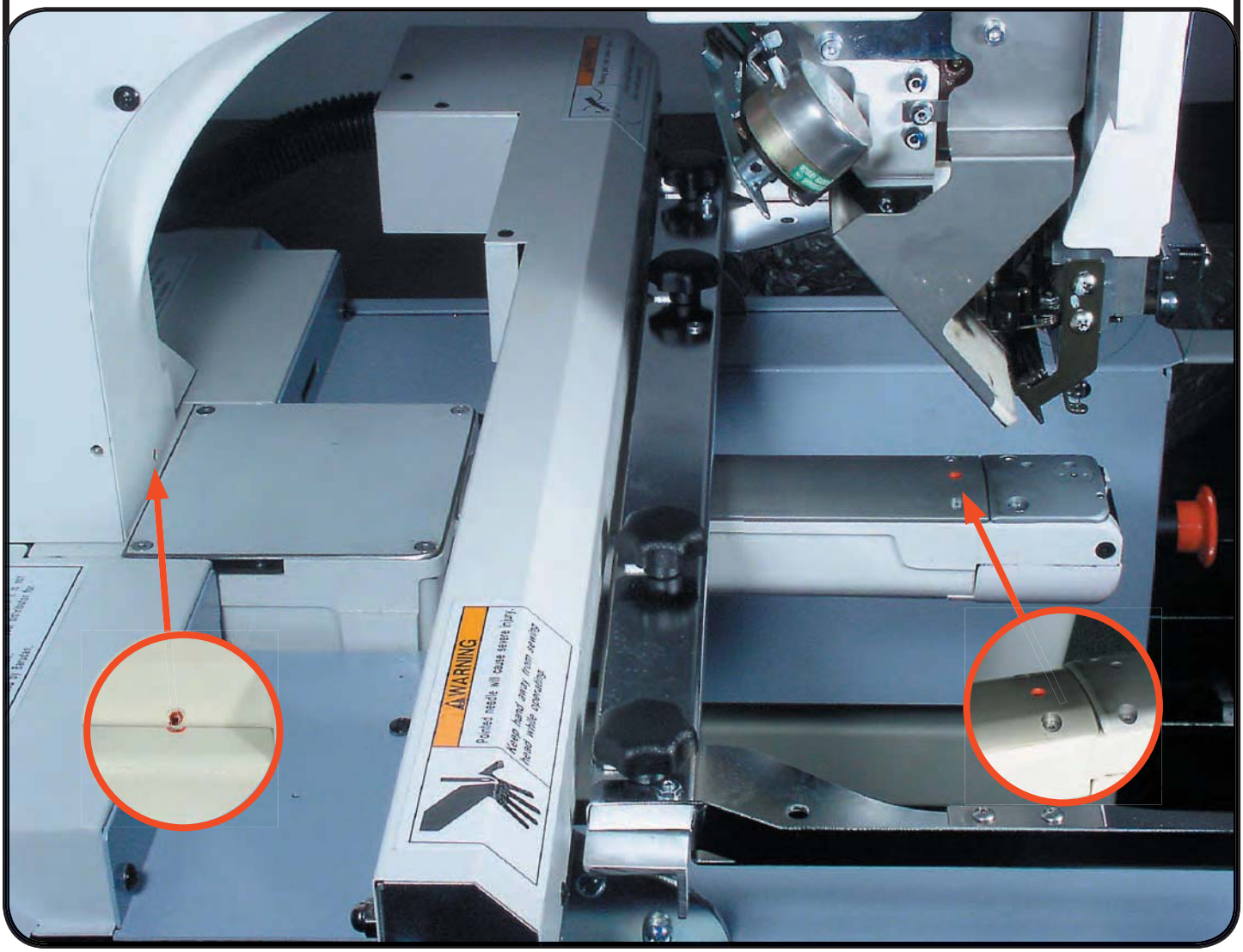


B2- Hook Shaft Bushings
2 places 💧💧 Machine Oil once/week



Once a week, lubricate the Hook Shaft Bushings (B2) with 2 drops of Machine oil in each hole, shown left to right in the photograph:

1. At the back of the head
2. At the end of the Cylinder Arm, right behind the Throat Plate



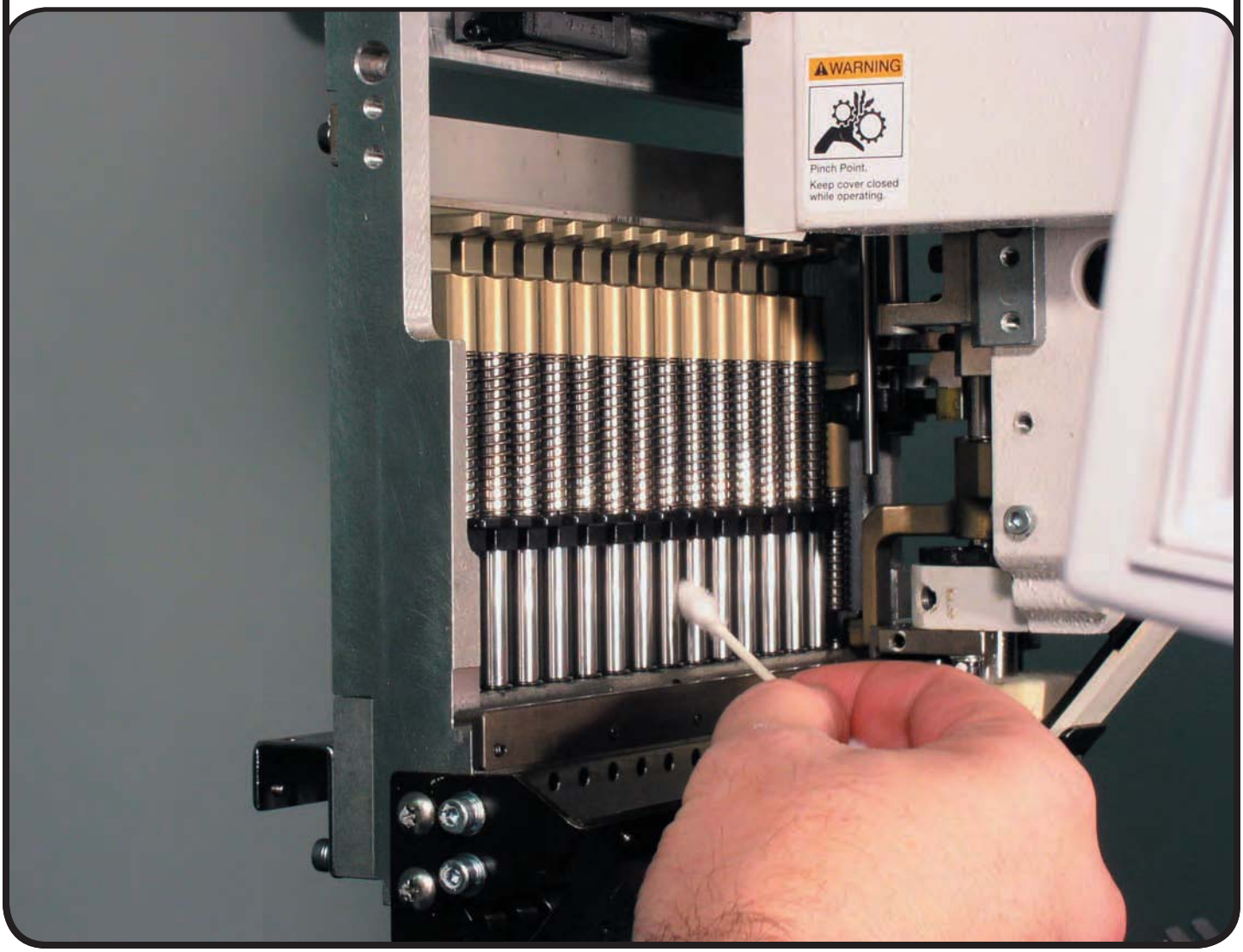
B3- Needle Bars

Apply Machine Oil once/month

Once a month, lubricate the Needle Bars with a cotton swab saturated with Machine Oil.

1. Position the machine to Needle 1
2. From behind the machine, lightly wipe the needle bars with a cotton swab saturated with machine oil.

Note: Apply just enough oil to leave a thin film on the needle bars. A cotton swab saturated in machine oil gives just the right amount. If you OVER-OIL the needle bars, the excess oil may splash onto the garments being sewn, leaving oil spots. Remove this extra oil with a paper towel or scrap of topping.



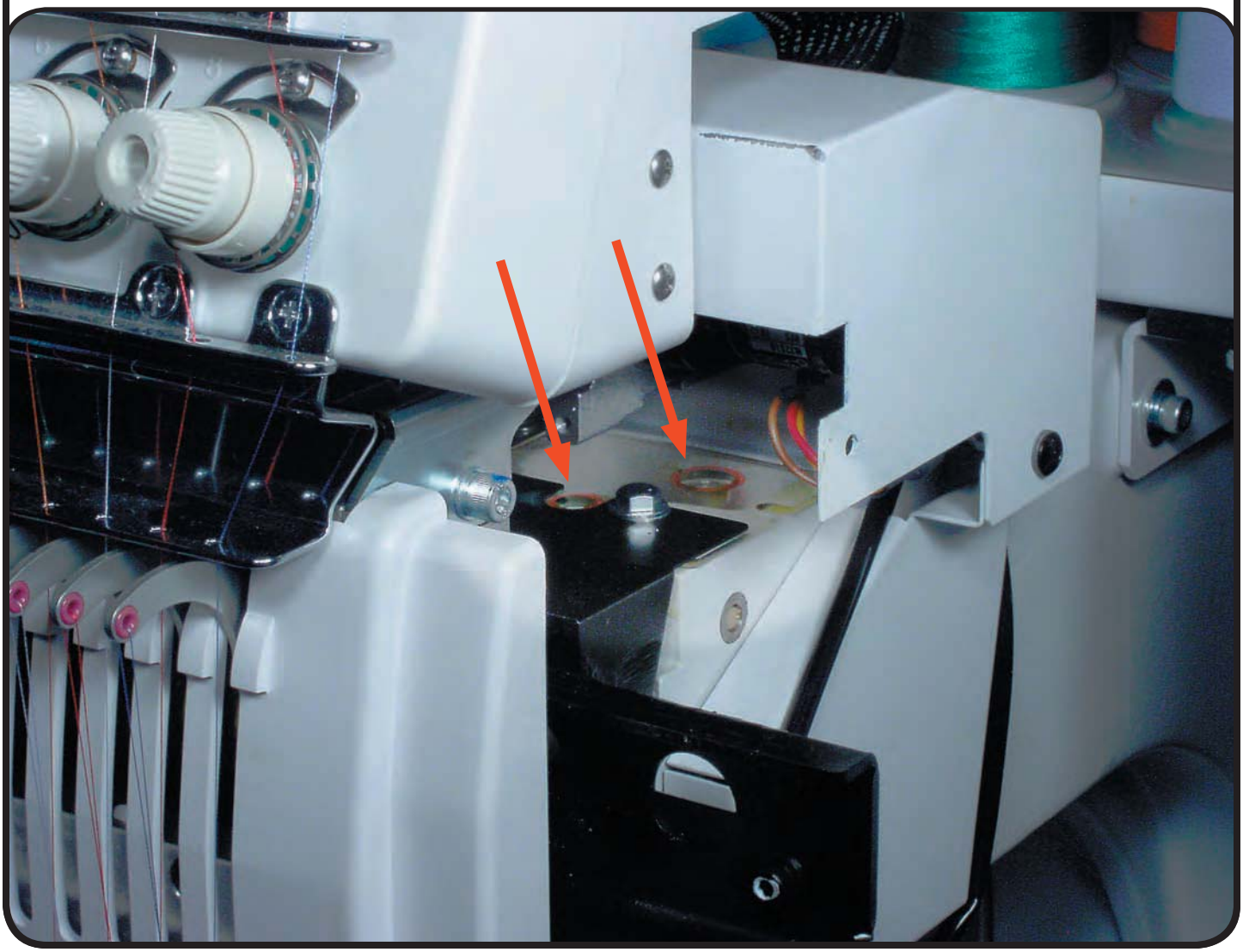
C1 Needle Bar Crank Rod & C2- Takeup Drive Lever

💧💧 (2 places) Bearing Oil once/week

Once a week, lubricate the Needle Bar Crank Rod (C1- on the right in the photo below) and the Takeup Drive Lever (C2- on the left) with 2 drops of Bearing Oil in each hole..

1. Color change the head to the last needle, (#9)
2. Place 2 drops of Bearing Oil in each of the red holes

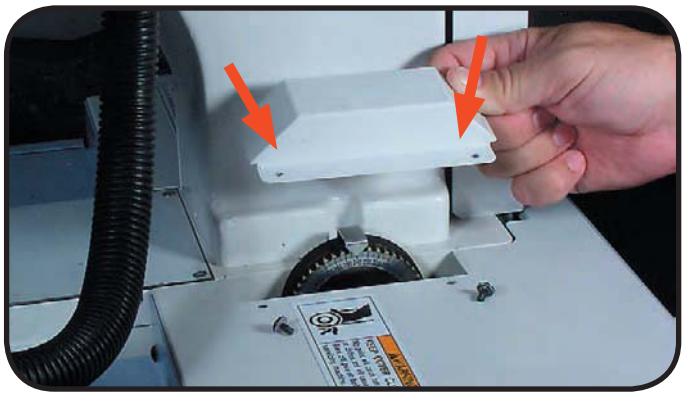
NOTE: The machine must be stopped when oiling these (2) places

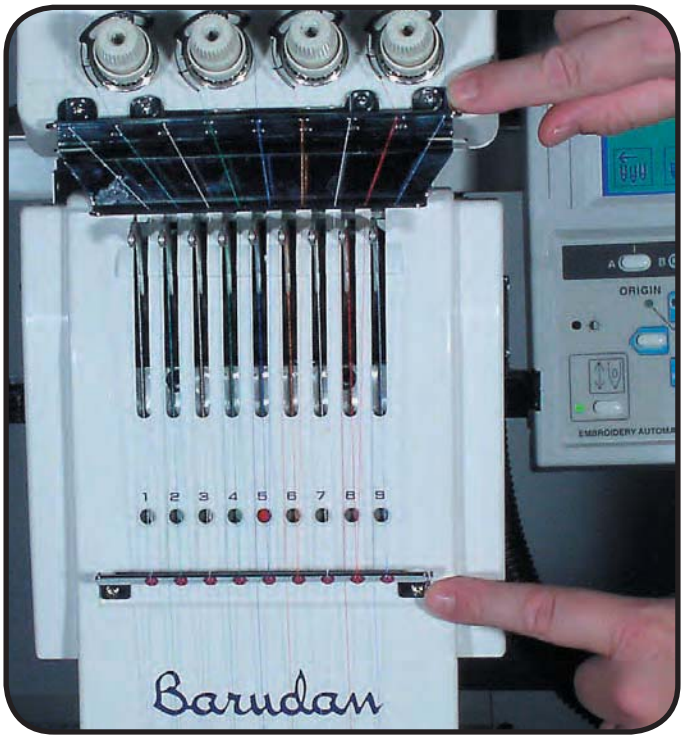


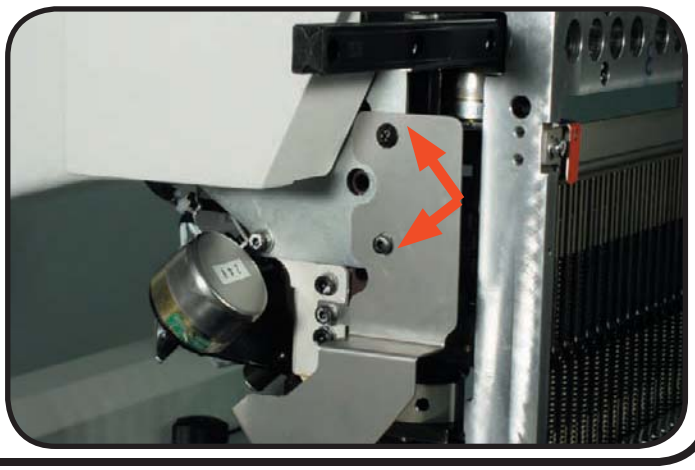
C3- C5 Needle Bar Area Preparation: Remove handwheel cover, Front cover, & Cap cover (behind needles)

The following steps will be easier to perform if you can manually rotate the sewing head, by first removing the cover (Steps 1-2). Some of the following steps will be easier to understand the first time you lubricate the machine, if you remove two other covers (Steps 3-4):

1. Color change the machine to Needle #1
2. Remove the cover over the Main Pulley by removing the two screws as shown in the top photograph.
3. Remove the Front Head Cover (middle photograph):
   a) loosen the top (2) screws
   b) remove the (2) screws holding the middle thread guide, and remove the cover
4. Remove the Cap Cover (behind the needles) by removing 2 screws on each side of the sewing head (bottom photograph)







C3 Needle Bar Drive Lever & C4 Needle Bar Driver Links

(5 places) Bearing Oil once/week

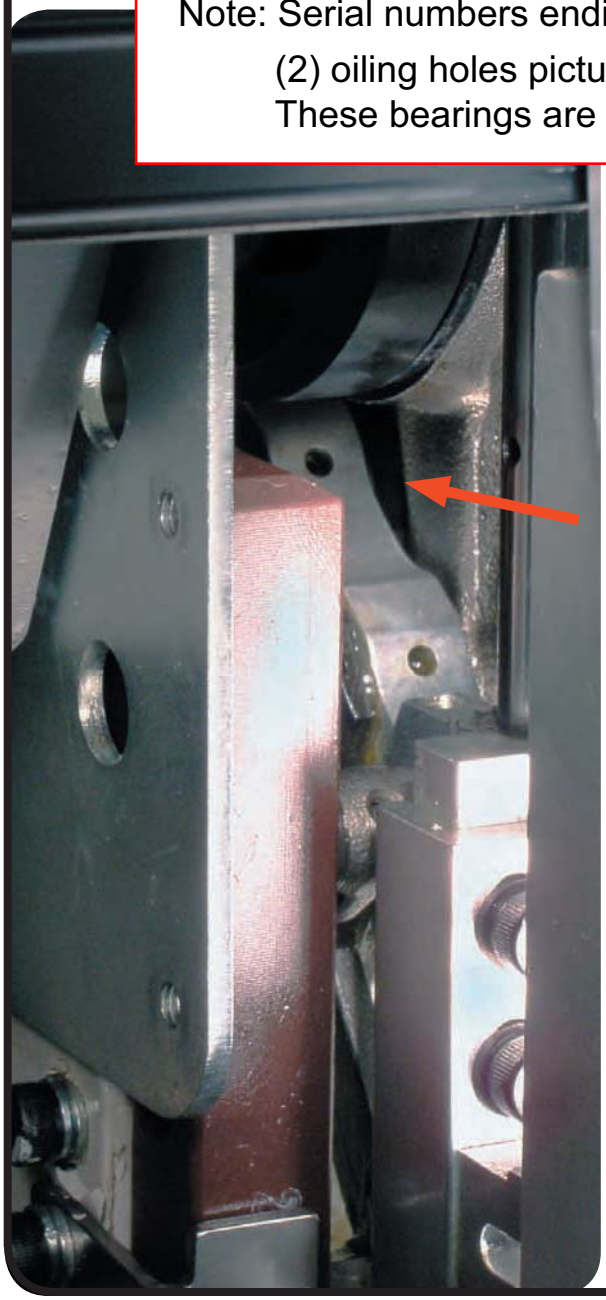
Once a week, lubricate the Needle Bar Drive Lever and Needle Bar Drive Links with 1 drop of Bearing Oil in each hole.

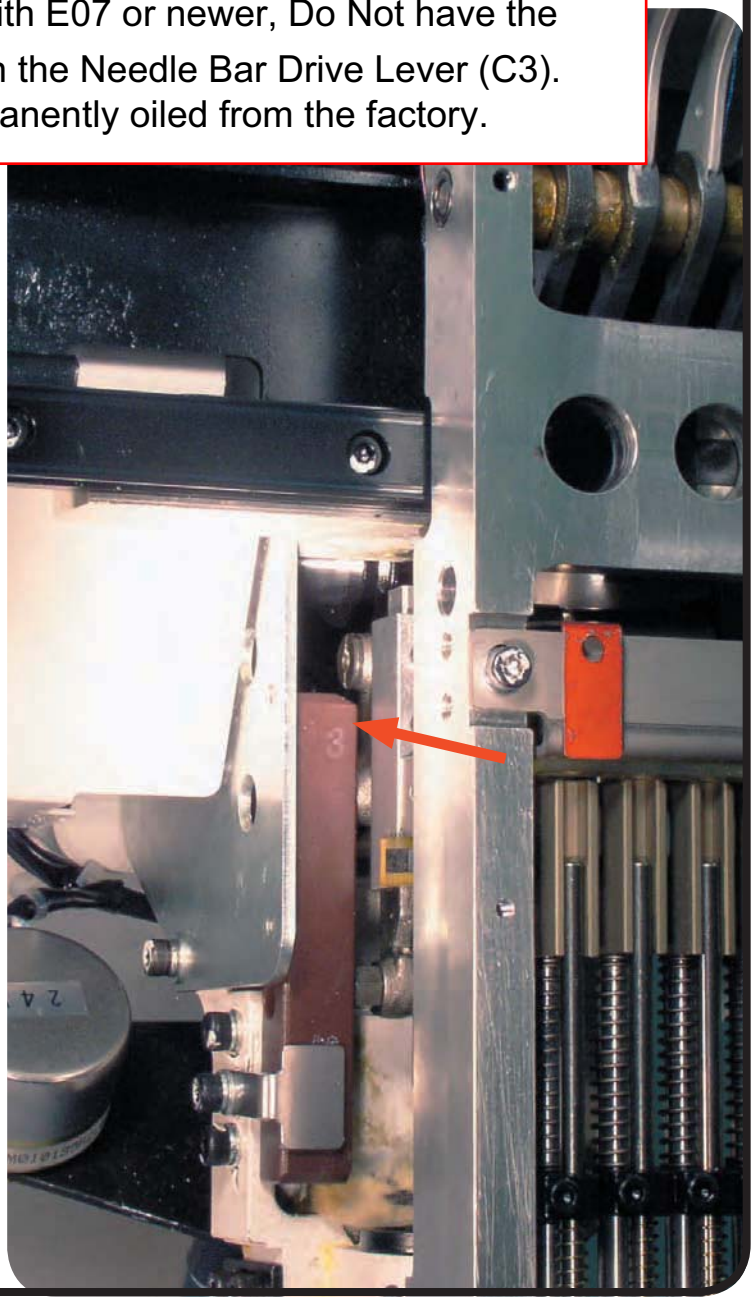
* 1. Rotate the handwheel until you can see the 2 oil ports on the Needle Bar Drive Lever (C3) and place one drop of bearing oil in each hole

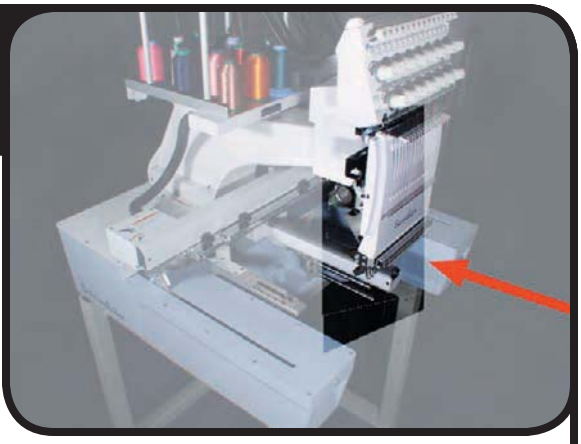
2. Rotate the handwheel until you can see the 3 oil ports on the Needle Bar Driver Links (C4) and place one drop of oil in each hole

See the photograph on the next page for a better view of the oil holes.

* Note: Serial numbers ending with E07 or newer, Do Not have the (2) oiling holes pictured in the Needle Bar Drive Lever (C3). These bearings are permanently oiled from the factory.







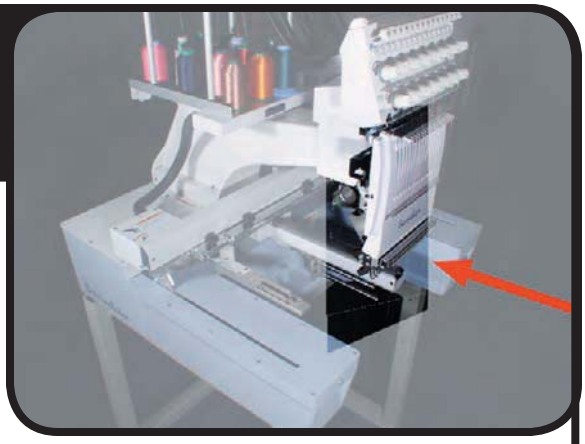
OIL HOLE CLOSE-UP:

Additional covers were removed for the photograph below to help show the exact locations of the oil holes:

* Note page 10

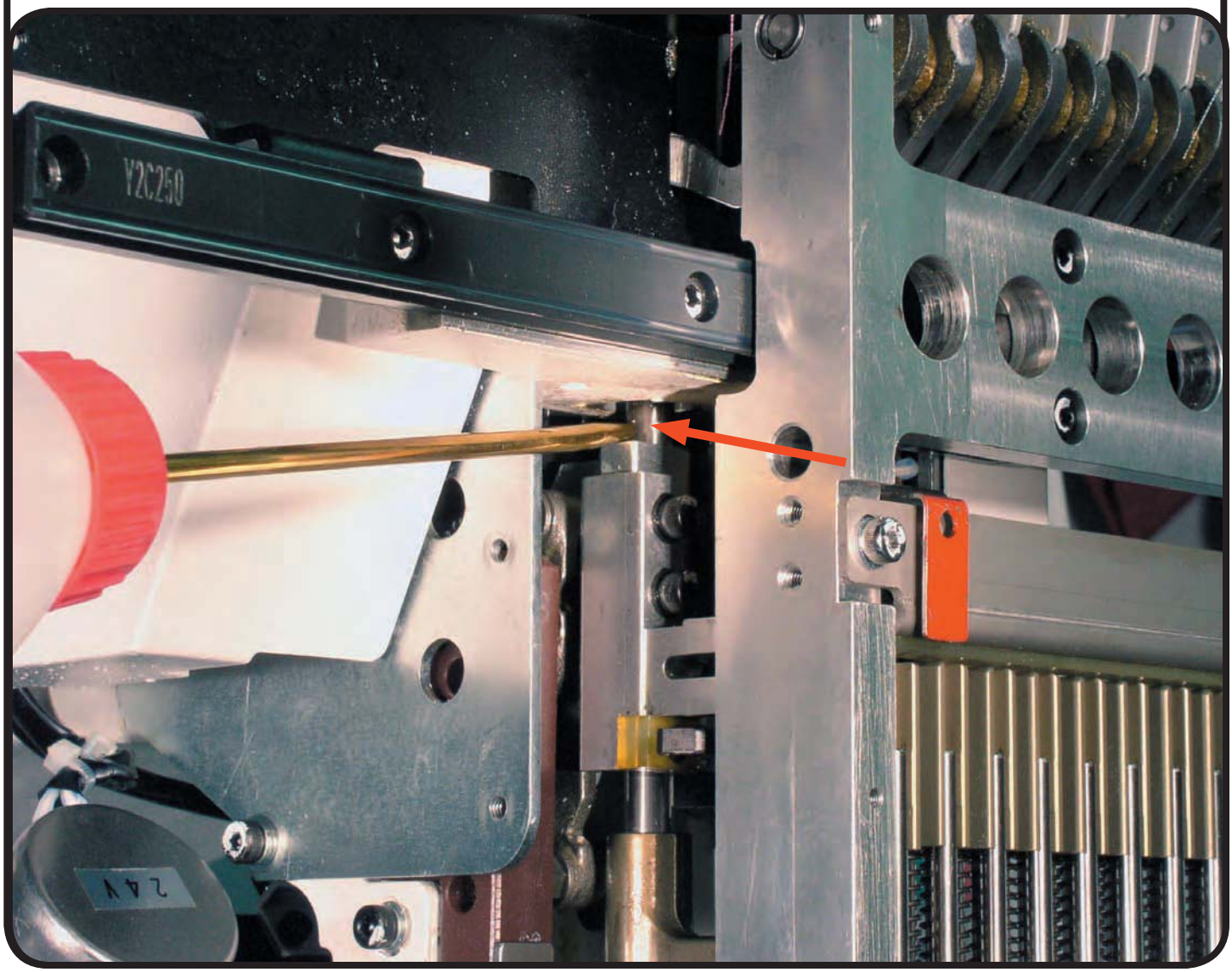
C5 Needle Bar Driving Shaft

(1 place) Bearing Oil once/week



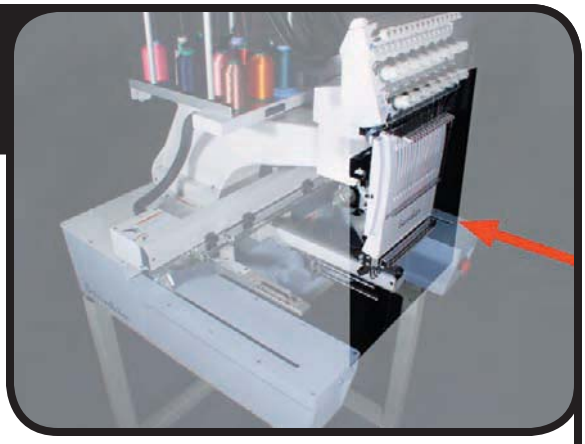
Once a week, lubricate the Needle Bar Driver Shaft with 1 drop of Bearing Oil:

1. Color Change to Needle 1
2. Place (1) drop of Bearing Oil above the Needle Bar Driver Fixing Base, at the driving shaft.



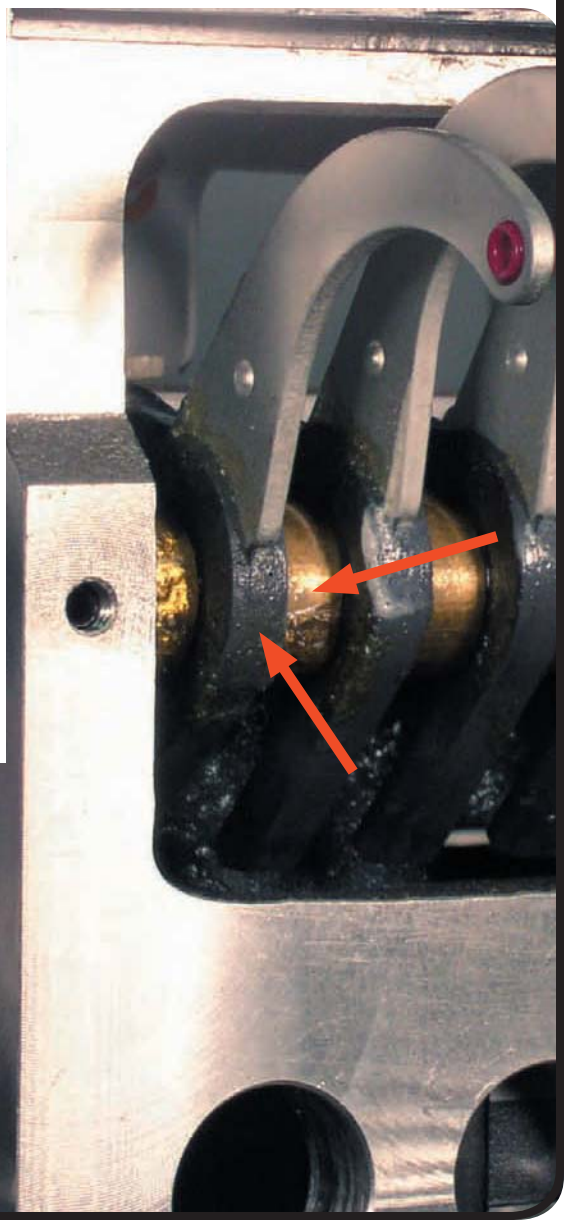
E1- Take Up Levers

Lithium Grease Spray every 6 months

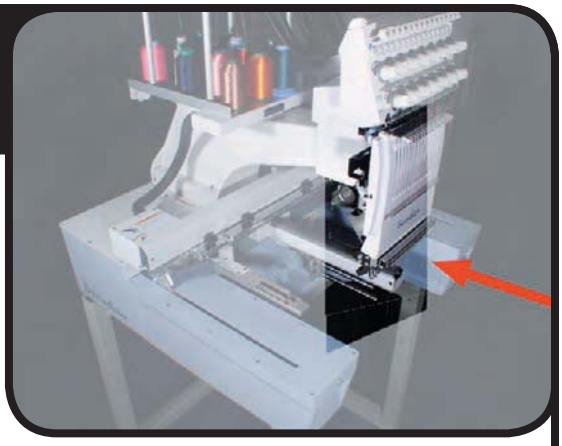


Every six months, lubricate the takeup levers with White Lithium Spray Grease:

1. Remove the front head cover
2. Spray a small amount of White Lithium Grease across all of the Take-up Levers.

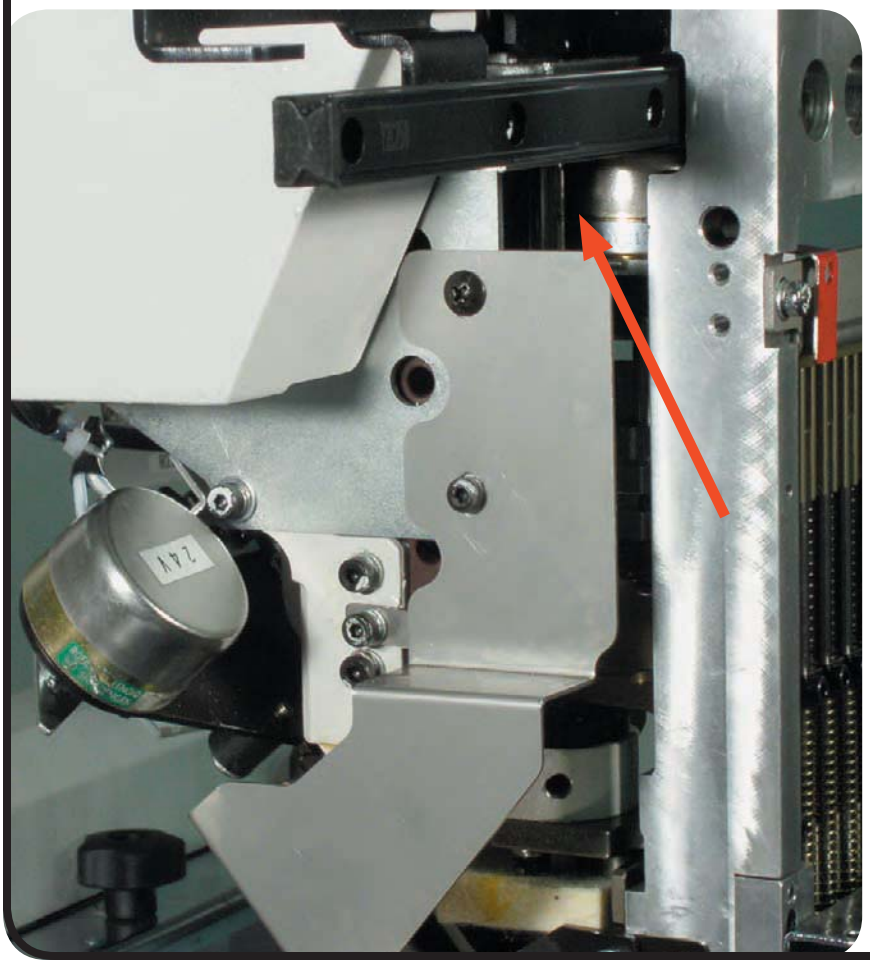


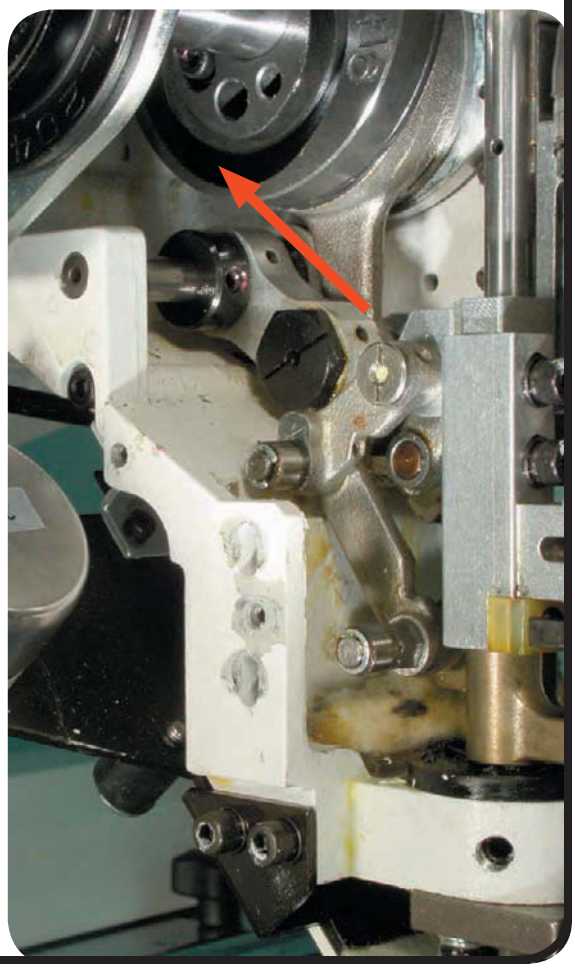
E2- Take Up Lever Cam
Lithium Grease Spray every 6 months



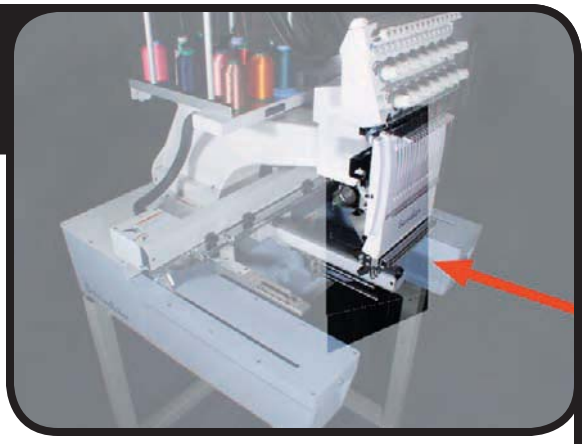
Every six months, lubricate the Takeup Lever Cam with White Lithium Spray Grease:

1. Color change the machine to Needle #1
2. Guide the spray hose of the Lithium Spray Can up into the head as shown in the photograph on the left. (If the Cap cover is removed, you may have better access)
3. Spray a small amount of grease into the groove in the Take Up Lever Cam, as shown in the photograph on the right.





E3- Presser Foot Cams
(2 places) Spray every 6 months



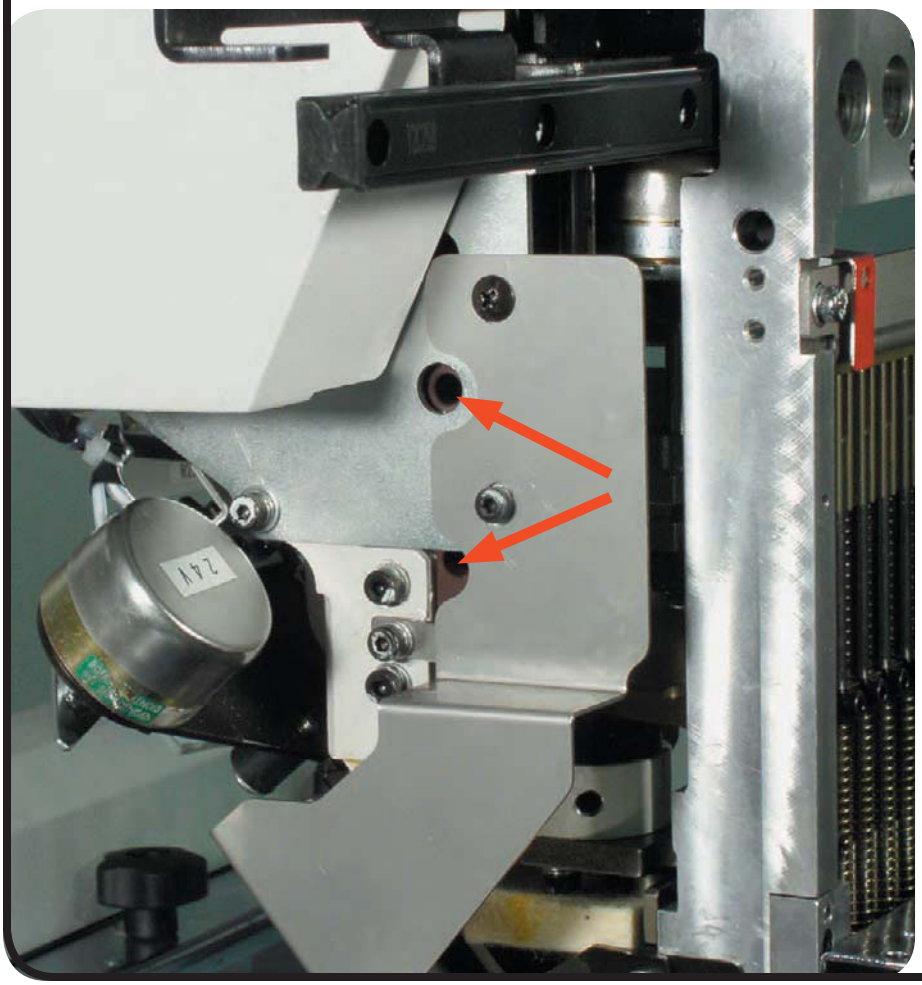
Every six months, lubricate the Presser Foot Cams with White Lithium Spray Grease:

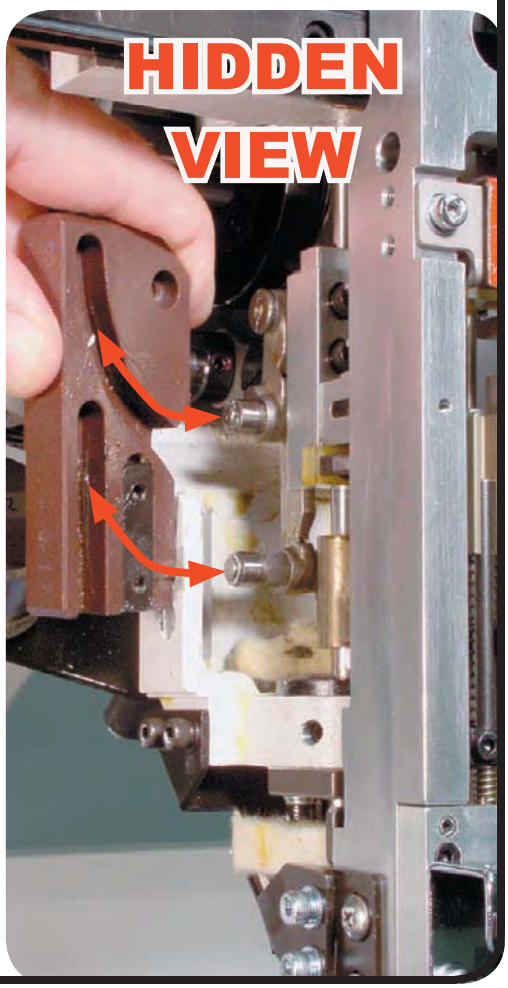
1. Color change the machine to Needle #1
2. Guide the spray hose of the Lithium Spray Can just into the holes (shown in the photograph on the left.

   You may find that manually rotating the handwheel will help distribute the grease.
3. Spray a small amount of grease into each hole.

DO NOT DISASSEMBLE THIS!

This photograph shows the areas that need lubrication- the grooves (on the left) that guide the rollers (on the right).

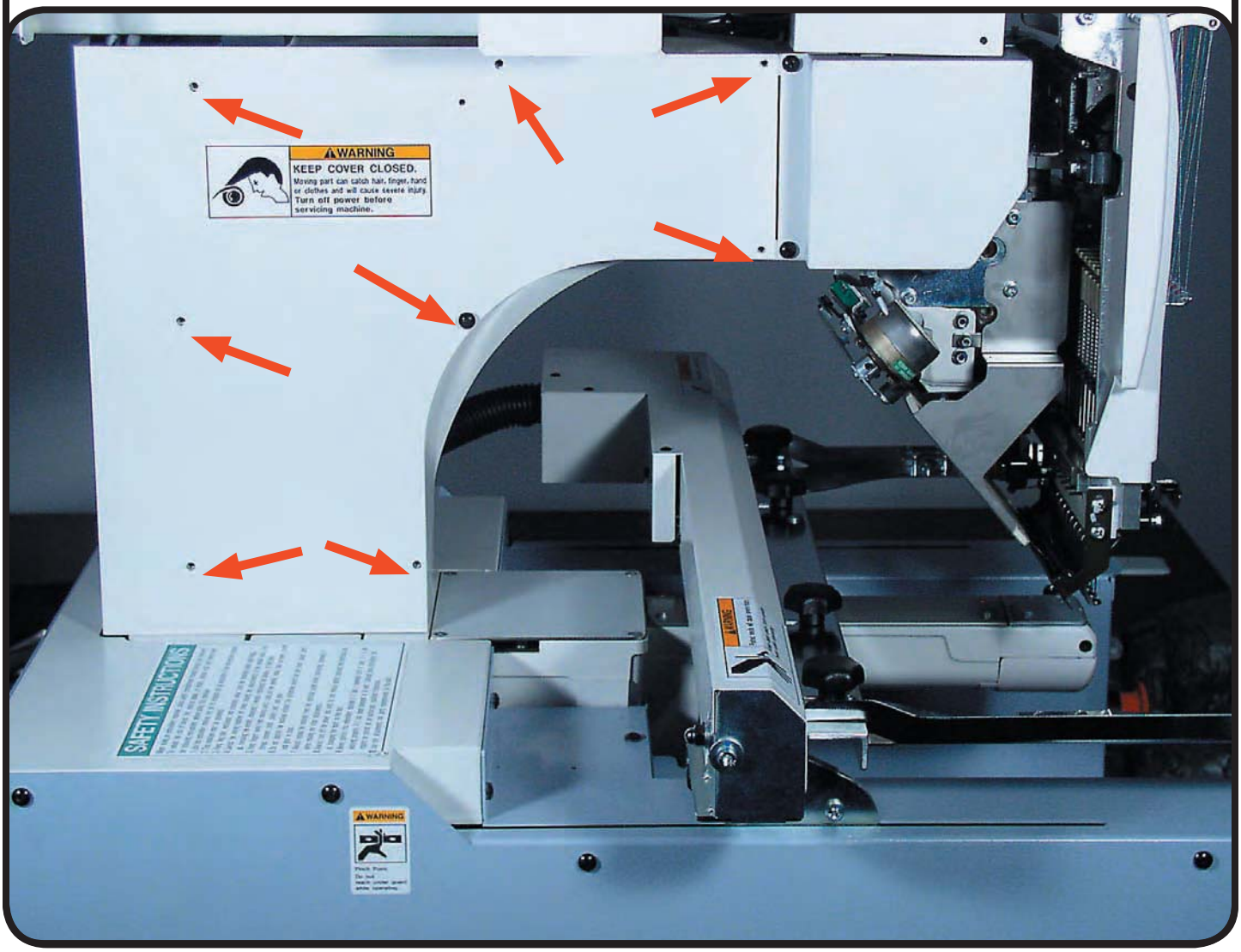


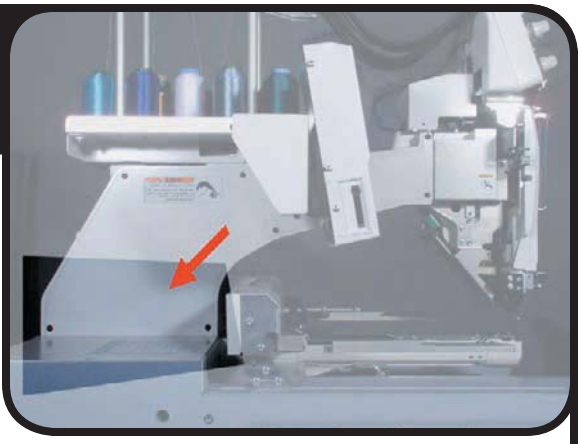


F1- Lower Connecting Gear
(1 place) Wheel Bearing Grease every 6 months

Every six months, the Lower Connecting Gear lubrication should be checked:

1. Color change the head to needle #9
2. Turn the power off and unplug the machine
3. Remove the Left side cover from the sewing head by removing (8) screws as shown in the photograph below.





4. Check the lubrication where the two bevel gears meet.
5. Redistribute the grease so that the gear teeth are covered. If there is not enough grease, use more Wheel Bearing Grease.