

# **BEVT-S1501CII**

## **Lubrication Instructions**



**Illustrations applicable to BEXT-S1501CII**

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 covers to be sure that you're oiling the proper places. Then hold the cover in place and see how to point the oiler with the cover on.

Note: Some pictures shown are from a multi-head machine, but lubrication is the same.

### Compact Machine Lubrication Chart

PART ID		LUBRICANT	Frequency
<b>A1</b>	Rotating Hook	Clear (mineral) oil for sewing machinery	Every 4 to 6 hours of machine operation
<b>B1</b>	Drive Shaft	Clear (mineral) oil for sewing machinery	Once per week
<b>B2</b>	Hook Shaft Bushings (3)		Once per month
<b>B3</b>	Needle Bars	Wipe lightly with cotton swab saturated	Every two weeks
<b>C1</b>	Needle Bar Crank Rod	Bearing oil	Once a week
<b>C2</b>	Take-up Driver Lever		
<b>C3</b>	Needle Bar Driver Links (5)		
<b>E1</b>	Take-Up Lever	Lithium grease spray	Every 6 months
<b>E2</b>	Take-Up Lever Cam Groove		
<b>E3</b>	Presser Foot Cams (2)		
<b>E4</b>	Color Change Cam		Once a year
<b>E5</b>	H Slide connecting shaft		Every 3 months
<b>F1</b>	Hook Shaft Gears	Wheel Bearing Grease	Every 3 months

## TYPES OF LUBRICANTS

Barudan 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.



### **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, Walmart, or K-mart Automotive department.



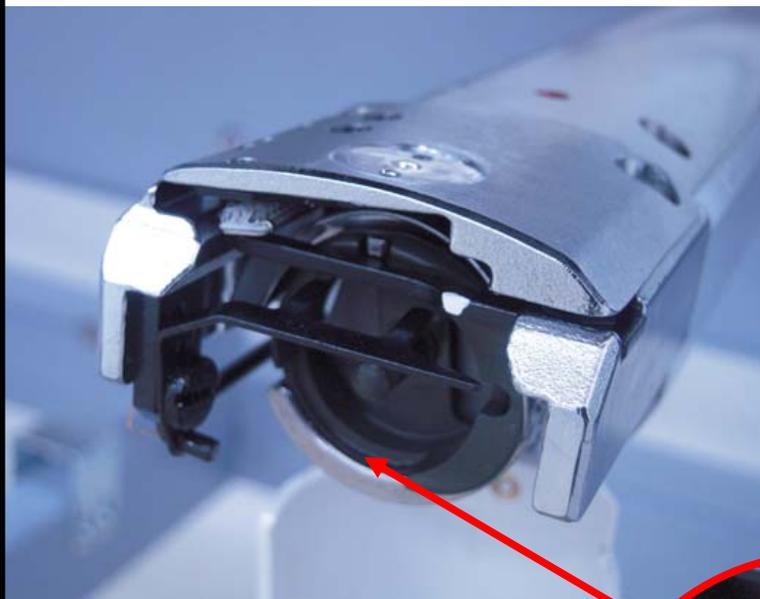
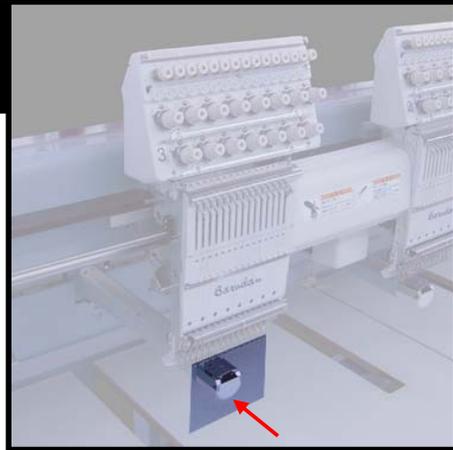
### **WHEEL BEARING GREASE**

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:

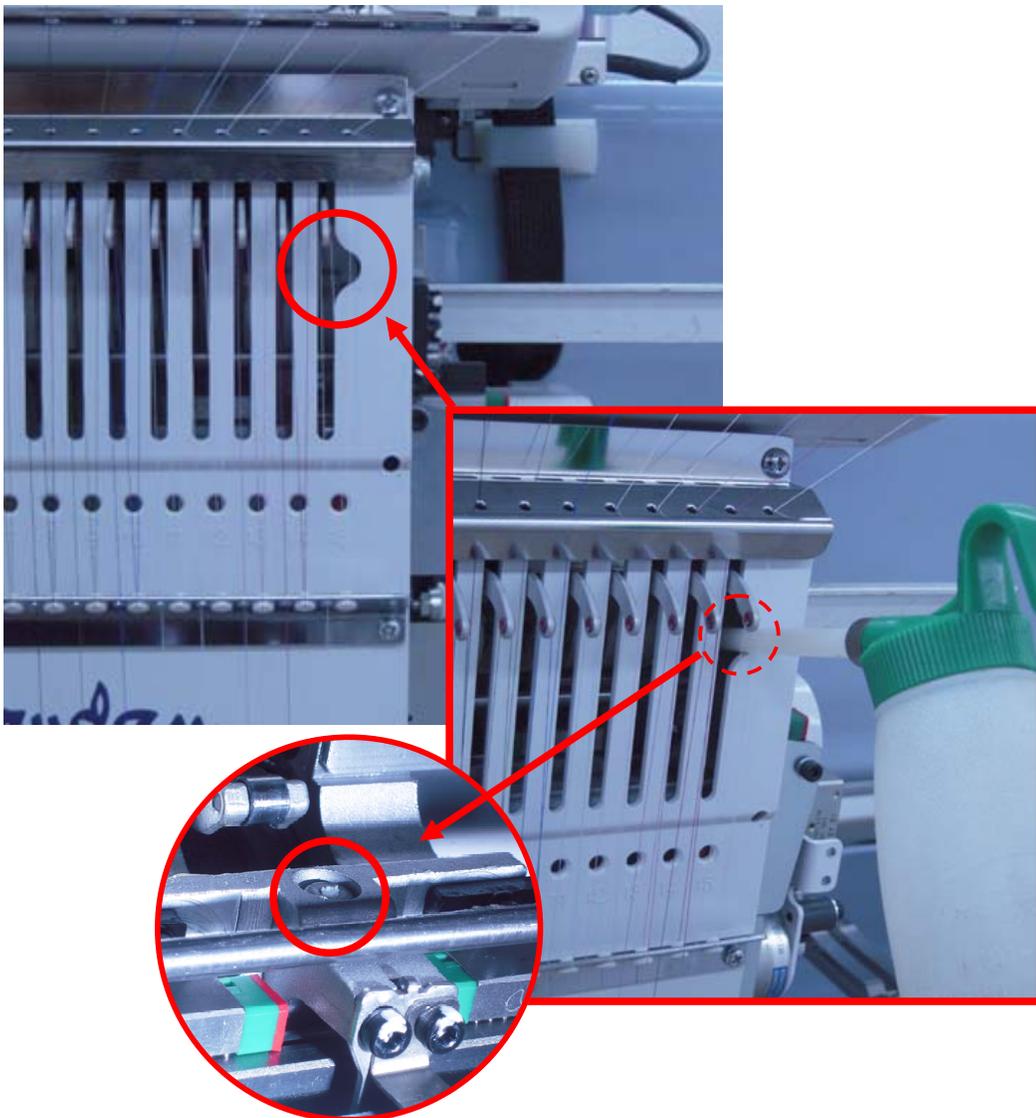
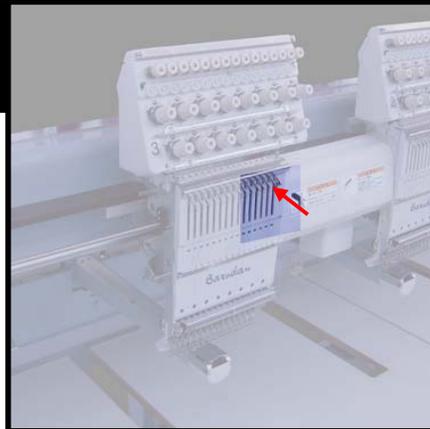
1. Open the cover on the cylinder arm
2. Remove the bobbin & bobbin case
3. Place (1) drop of oil in the Hook raceway



**B1- Drive Shaft  
Machine Oil once a week**

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

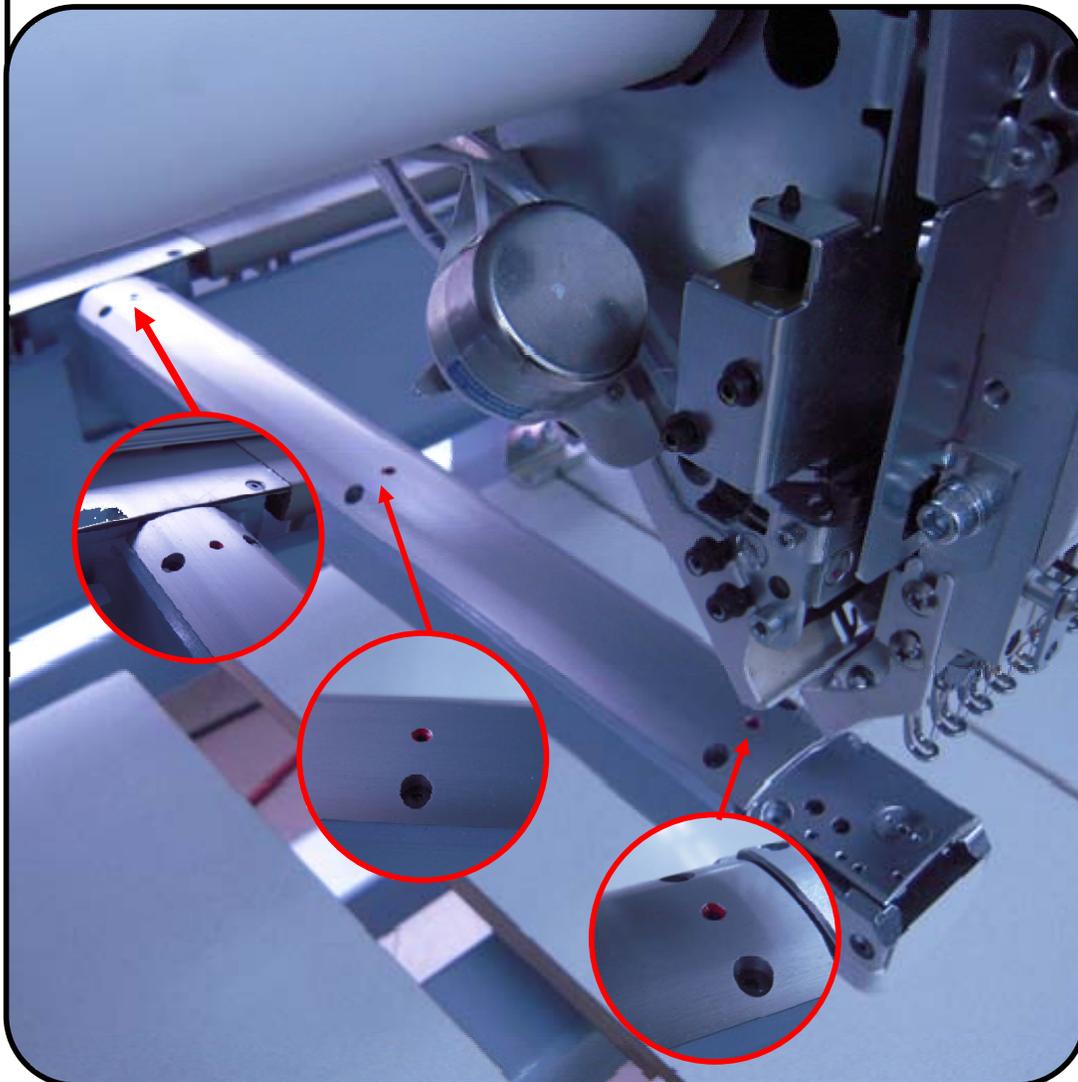
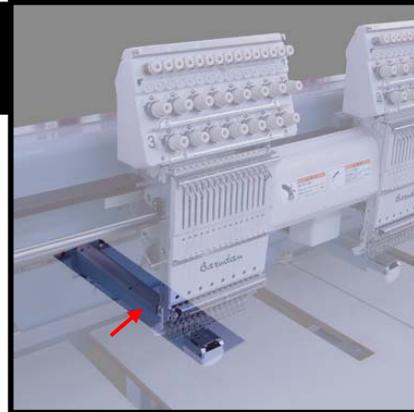
1. Color Change the head to the last needle (#15)
2. Place ( 3 ) drops of oil in the top of the shaft, where the wick enters the shaft



## B2- Hook Shaft Bushings 3 places of Machine Oil once a week

Once a week, lubricate the Hook Shaft Bushings (B2) with 2 drops of Machine oil in each hole, as shown in the photographs.

1. At the back of the head
2. In the middle of the Cylinder Arm
3. At the end of the Cylinder

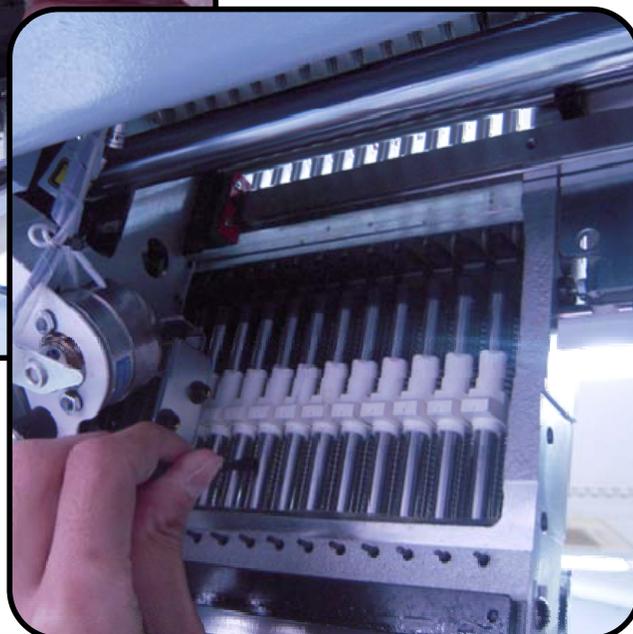
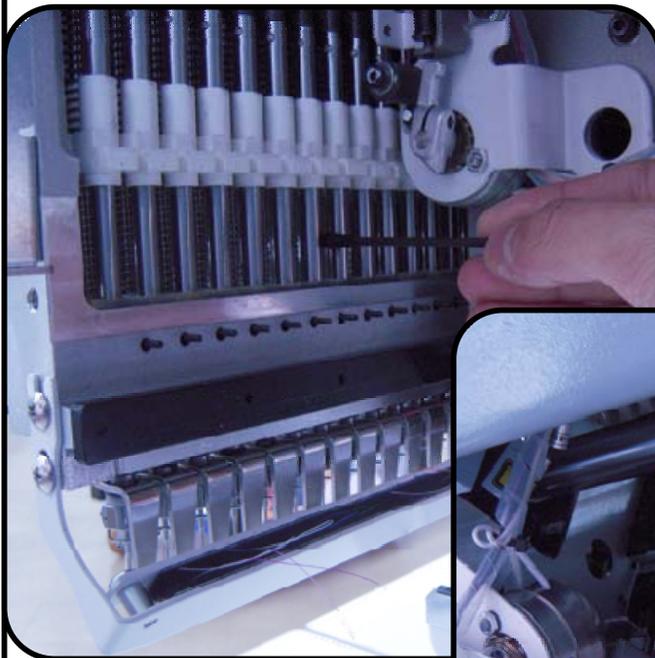
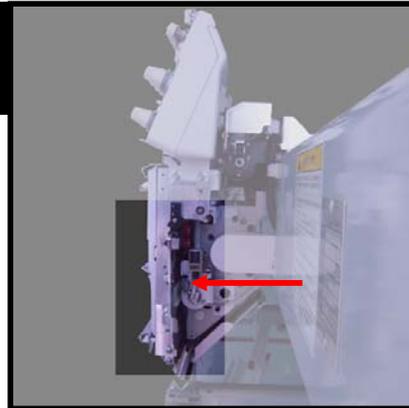


### B3- Needle Bars Apply Machine Oil every 2 weeks

Once every 2 weeks, 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.
3. Color change the head to the last Needle, (#15)
4. From behind the machine, lightly wipe the rest of needle bars with a cotton swab saturated with machine oil.

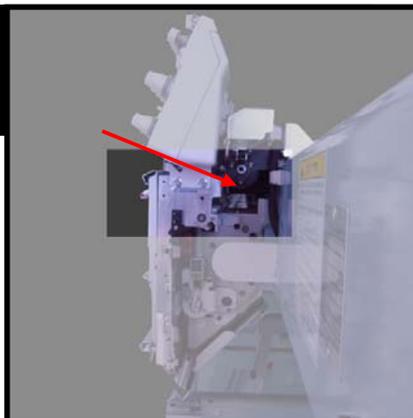
Note: Apply just enough oil to leave a thin film on the needle bars. A cotton swab saturated in machine oil gives just the right amount. If you OVER-OIL the needle bars, the excess oil may splash onto the garments being sewn, leaving oil spots. Remove this extra oil with a paper towel or scrap of Topping.



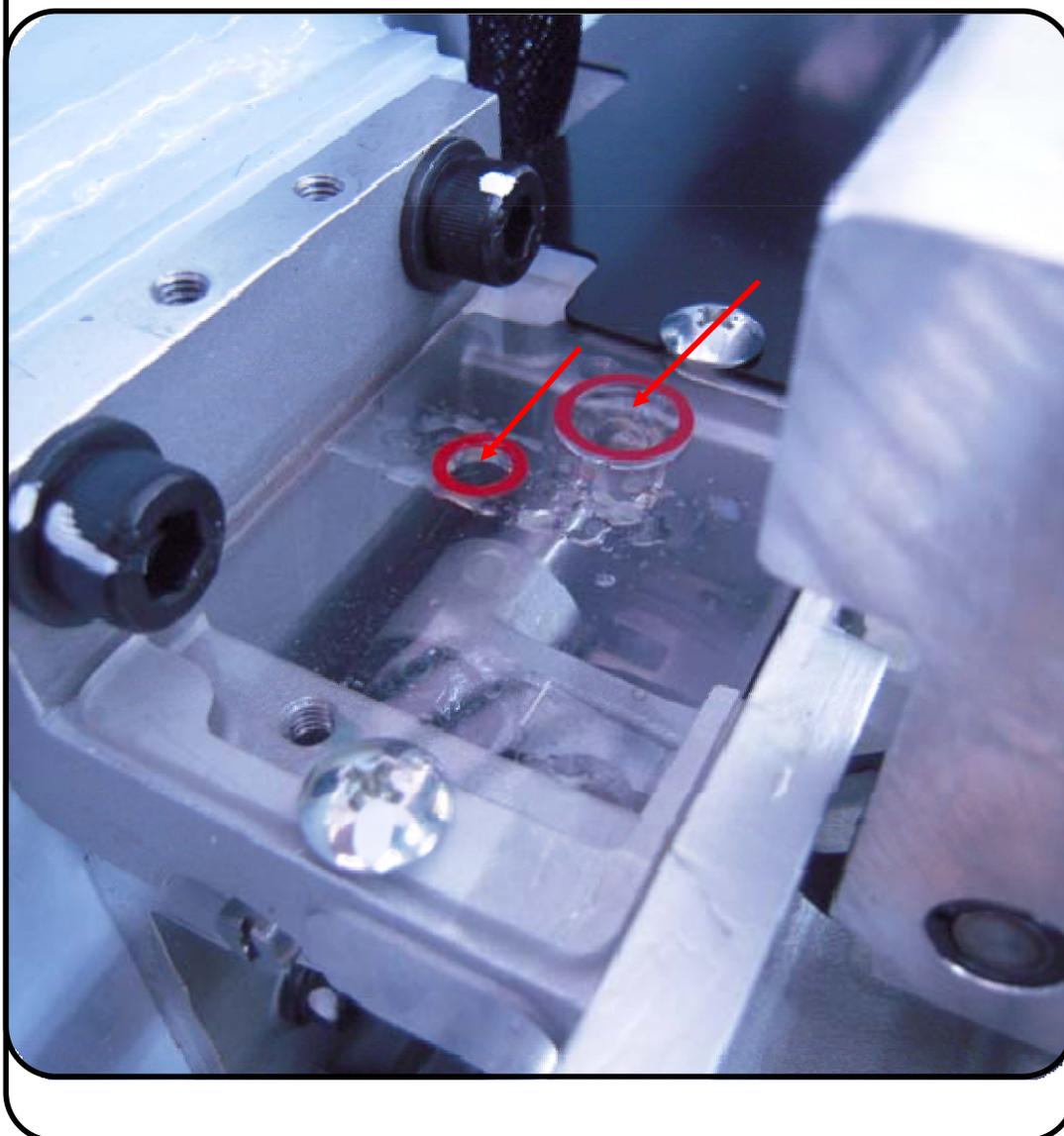
**C1- Needle Bar Crank Rod &  
C2- Take-up Driver Lever  
(2 places) Bearing Oil once a week**

Once a week, lubricate the Needle Bar Crank Rod (C1- Top right hole in photo below) and the Take-up Driver Lever (C1- Lower left hole) with 2 drops of Bearing Oil in each hole.

1. Color change the head to the last needle, (#15)
2. Place 2 drops of Bearing Oil in both red holes



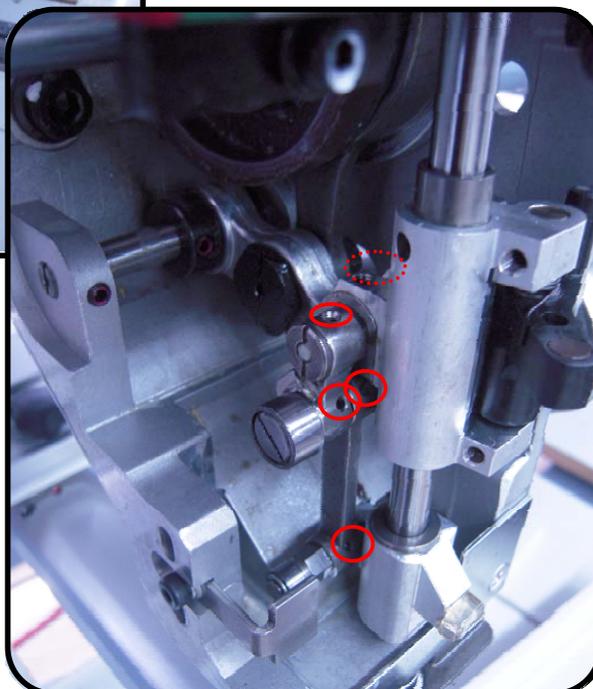
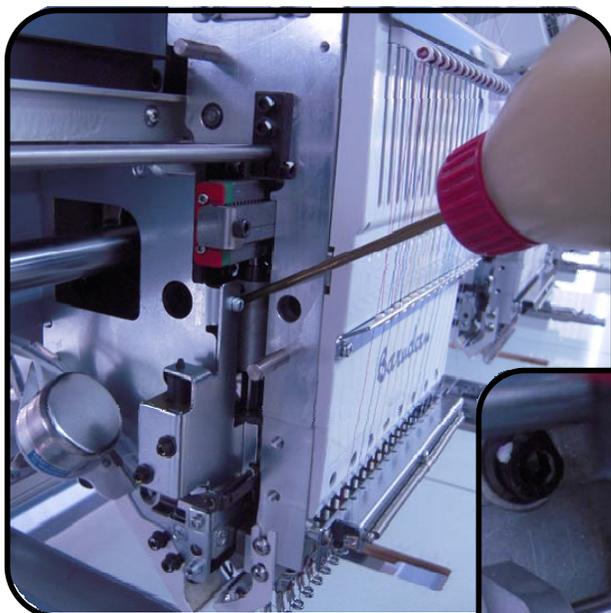
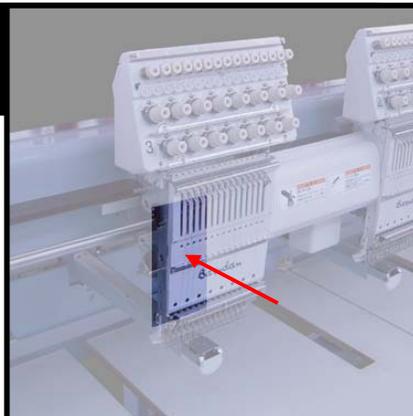
Note: The machine must be stopped when oiling these (2) places



### C3- Needle Bar Driver Links (5 places) Bearing Oil once a week

Once a week, lubricate the Needle Bar Link with 1 drop of Bearing Oil in each hole.

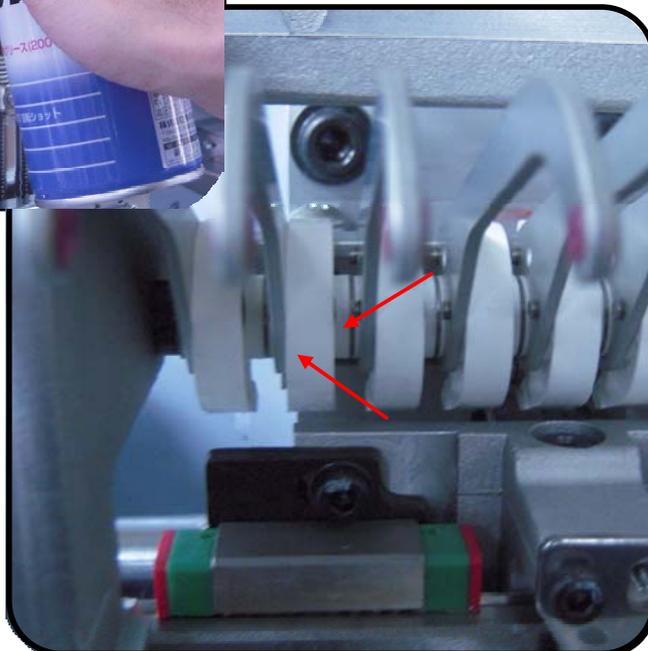
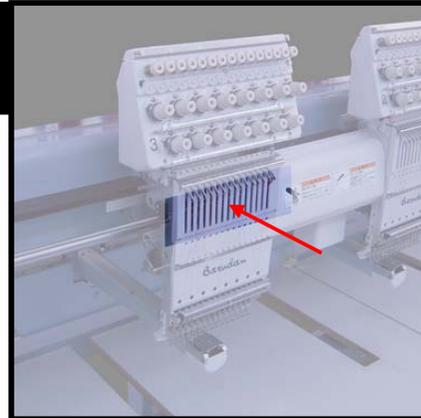
1. Position the machine to Needle 1
2. With the machine in the normal stop position, you can see the 4 oil ports on the Needle Bar Driver Link (C3). The top red dashed hole location, is hidden. Place one drop of oil in each hole location.



## E1- Take-up Levers Lithium Grease Spray every 6 months

Every six months, lubricate the Take-up Levers with White Lithium Spray Grease.

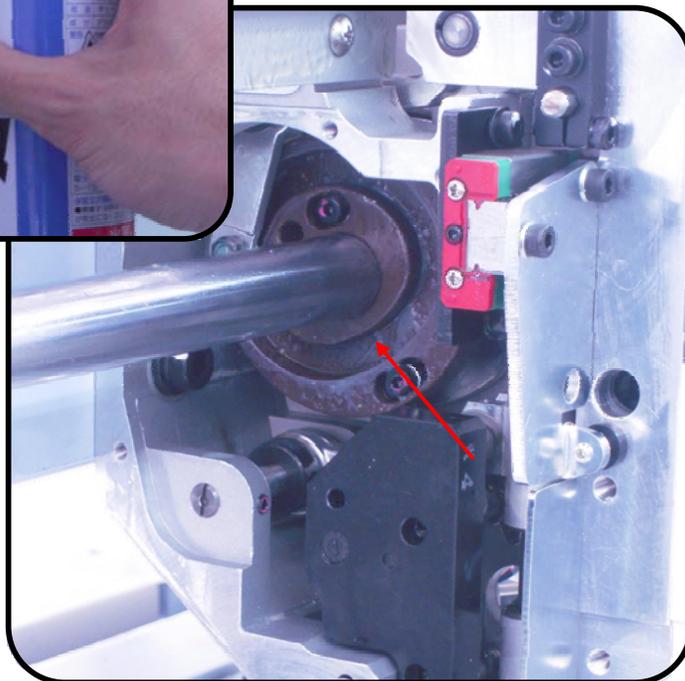
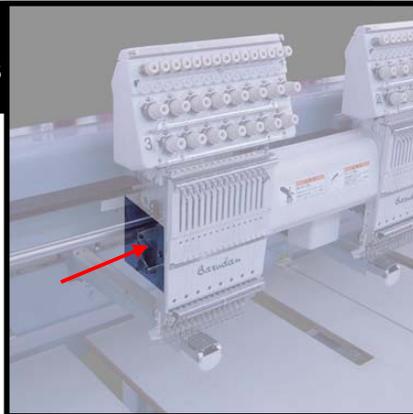
1. Remove the front head cover
2. Spray a small amount of White Lithium Grease across all of the Take-up Levers.



## E2- Take-up Lever Cam Lithium Grease Spray every 6 months

Every six months, lubricate the Take-up Lever Cam with White Lithium Spray Grease.

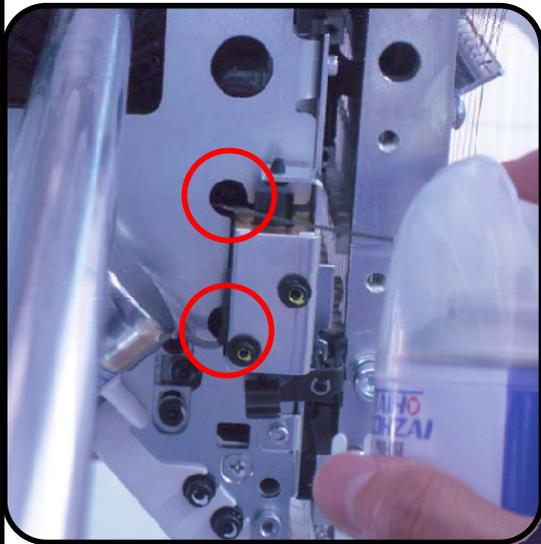
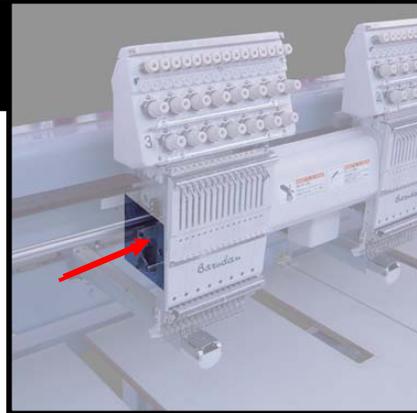
1. Color change the machine to Needle #1
2. Guide the spray hose of the Lithium Spray Can up into the head as shown in the photograph on the left.
3. Spray a small amount of grease into the groove in the Take-up Lever Cam, as shown in the photograph on the right.



### 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 as shown in the photograph on the left.  
You may find that manually rotating the degree wheel will help distribute the grease.
3. Spray a small amount of grease into each hole.



#### DO NOT DISASSEMBLE THIS

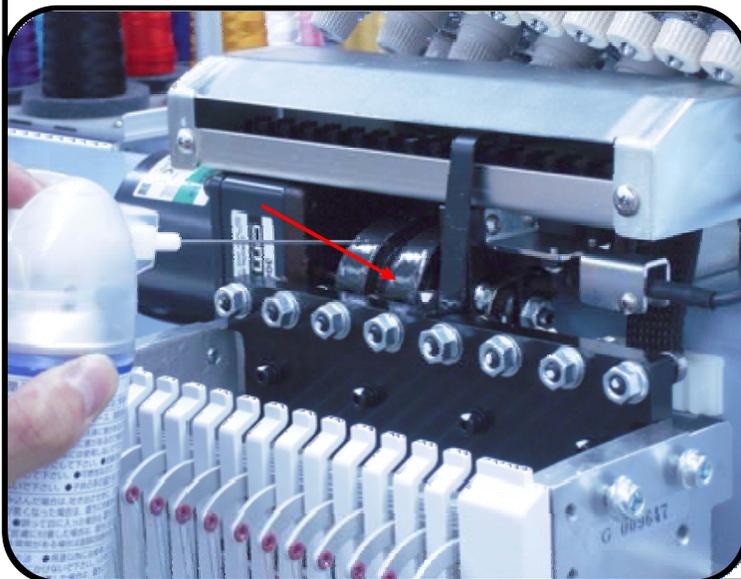
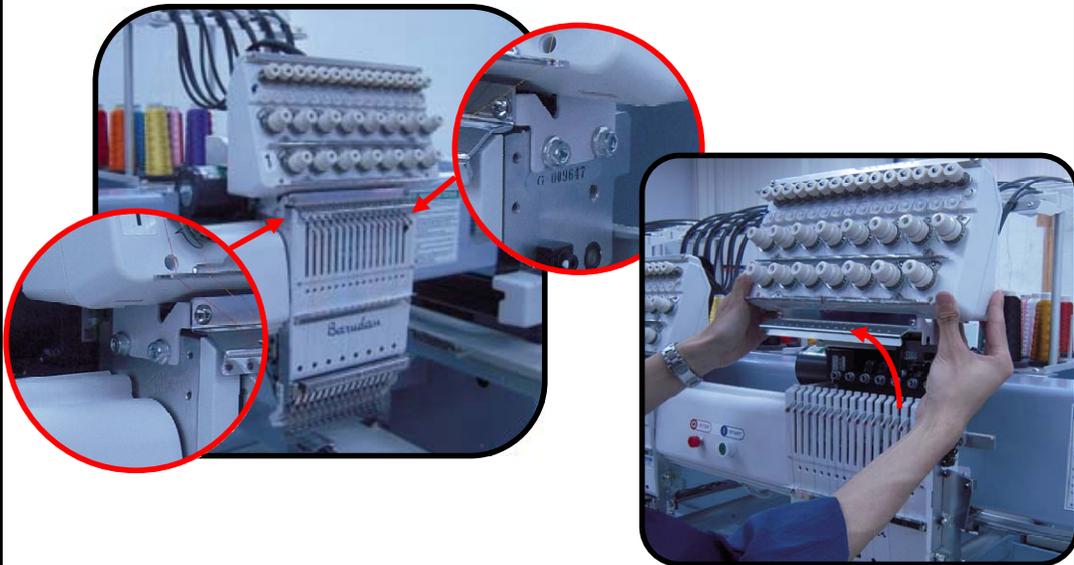
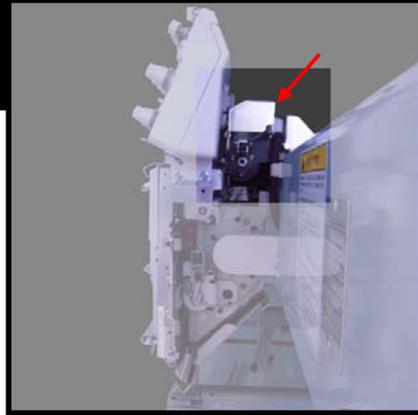
This photograph shows the areas that need lubrication the grooves (on the left) that guide the rollers (on the right).



#### E4- Color Change Cam Lithium Grease Spray once a 1 year

Once a year, lubricate the Color change Cam with White Lithium Spray Grease.

1. Loosen the (4) screws for the Tension base.
2. Remove the Tension base as shown in the photograph below.
3. Spray a small amount of grease into the groove in the Color Change Cam, as shown in the photograph below.



## E5- H Slide connecting shaft Lithium Grease Spray every 3 months

Every 3 months lubricate the H Slide connecting shaft with White Lithium Spray Grease;

1. Move the pantograph to the back.
2. Spray a small amount of grease into the groove of the H Slide connecting shaft, as shown in the photograph below.



## F1- Hook Shaft Gears Wheel Bearing Grease every 3 months

Every 3 months lubricate the Hook Shaft Gears with Wheel Bearing Grease;

1. Turn the power off and unplug the machine
2. Remove the Bed cover from the Barrel bed by removing the (2) screws as shown in the photograph below.
3. Check the grease where the two bevel gears meet.
4. Redistribute the grease so that the gear teeth are covered. If there is not enough grease, add more Wheel Bearing Grease.

