OV-800 Series

0V - 804

1-Needle, Overedging Industrial Sewing Machine

0V - 814

2-Needle, Overedging Industrial Sewing Machine

0V - 816

Safety Stitch Industrial Sewing Machine

INSTRUCTION MANUAL

IMPORTANT SAFETY INSTRUCTIONS

Putting sewing systems into operation is prohibited until it has been ascertained that the sewing systems in which these sewing machines will be built into, have conformed with the safety regulations in your country. Technical service for those sewing systems is also prohibited.

1. Observe the basic safety measures, including, but not limited to the following ones, whenever you use the machine.

2. Read all the instructions, including, but not limited to this instruction Manual before you use the machine. In addition, keep this instruction Manual so that you may read it at anytime when necessary.

3. Use the machine after it has been ascertained that it conforms with safety rules/standards valid in your country.

4. All safety devices must be in position when the machine is ready for work or in operation. The operation without specified safety devices is not allowed.

5. This machine shall be operated by appropriately-trained operators.

6. For your personal protection, we recommend that you wear safety glasses.

7. For the following, turn off the power switch or disconnect the power plug of the machine from the receptacle.

1) Threading needle(s), looper, spreader etc. and replacing bobbin.

2) For replacing part(s) of needle, presser foot, throat plate, looper, spreader, feed dog, needle guard, folder, cloth guide etc.

3) For repair work.

4) When leaving the working place or when the working place is unattended.

5) When Using clutch motors without applying brake, it has to be waited until the motor stopped totally.

8. If you should allow oil, grease, etc. used with the machine and devices to come in contact with your eyes or skin or swallow any of such liquid by mistake, immediately wash the contacted areas and consult a medical doctor.

9. Tampering with the live parts and devices, regardless of whether the machine is powered, is prohibited.

10. Repair, remodeling and adjustment works must only be done by appropriately trained technicians or specially skilled personnel. Only spare parts designated by can be used for repairs.

11. General maintenance and inspection works have to be done by appropriately trained personnel.

12. Repair and maintenance works of electrical components shall be conducted by qualified electric technicians or under the audit and guidance of specially skilled personnel.

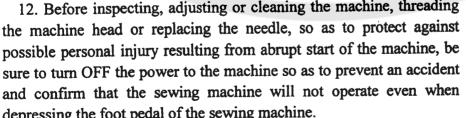
Whenever you find a failure of any of electrical components, immediately stop the machine.

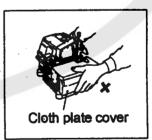
- 13. Before making repair and maintenance works on the machine equipped with pneumatic parts such as an air cylinder, the air compressor has to be detached from the machine and the compressed air supply has to be cut off. Existing residual air pressure after disconnecting the air compressor from the machine has to be expelled. Exceptions to this are only adjustments and performance checks done by appropriately trained technicians or specially skilled personnel.
 - 14. Periodically clean the machine throughout the period of use.
- 15. Grounding the machine is always necessary for the normal operation of the machine. The machine has to be operated in an environment that is free from strong noise sources such as high-frequency welder.

- 16. An appropriate power plug has to be attached to the machine by electric technicians. Power plug has to be connected to a grounded receptacle.
- 17. The machine is only allowed to be used for the purpose intended. Other used are not allowed.
- 18. Remodel or modify the machine in accordance with the safety rules/standards while taking all the effective safety measures. Assumes no responsibility for damage caused by remodeling or modification of the machine.

FOR SAFE OPERATION

- 1. So as to avoid electric shock hazards, do not open the cover of the electrical box of the motor or touch any part inside the electrical box with the power to the machine turned NO.
- 2. To prevent possible personal injury, never operate the machine with the belt cover and the eve guard removed.
- 3. To protect against possible personal injury resulting from being caught in the motor, use a motor that is provided with a motor pulley cover.
- 4. To avoid electric shock hazards, never operate the machine with the ground wire for the power supply removed.
- 5. During operation, be careful not to allow your or any other person's head, hands or fingers to come close to the hand wheel, V belt and motor so as to prevent possible personal injury that may occur when your hands/fingers are caught in the machine. Also, do not plaything close to
- 6. So as to avoid possible injury to your hands and fingers, do not put any of them near the cloth cutting knife and the needle when turning the power to machine or while the machine is in operation.
- 7. To prevent possible injury to your hands and fingers, do not put any of them inside the eye guard while the machine is in operation.
- 8. To avoid electric shock hazards and accidents arising from damaged electrical components, be sure to turn OFF the power switch before inserting/detaching the power plug.
- 9. So as to protect against possible personal injury resulting from abrupt start of the machine, make sure to turn OFF the power to the machine when you leave your machine.
- 10. In the event of a power failure, be sure to turn OFF the power to the machine to protect against possible personal injury resulting from abrupt start of the machine.
- 11. So as to protect against possible personal injury resulting from abrupt start of the machine, remove the belt cover, motor pulley cover and the V belt after turning OFF the power to the machine and confirming that the sewing machine will not run even by depressing the start pedal.
- 12. Before inspecting, adjusting or cleaning the machine, threading depressing the foot pedal of the sewing machine.

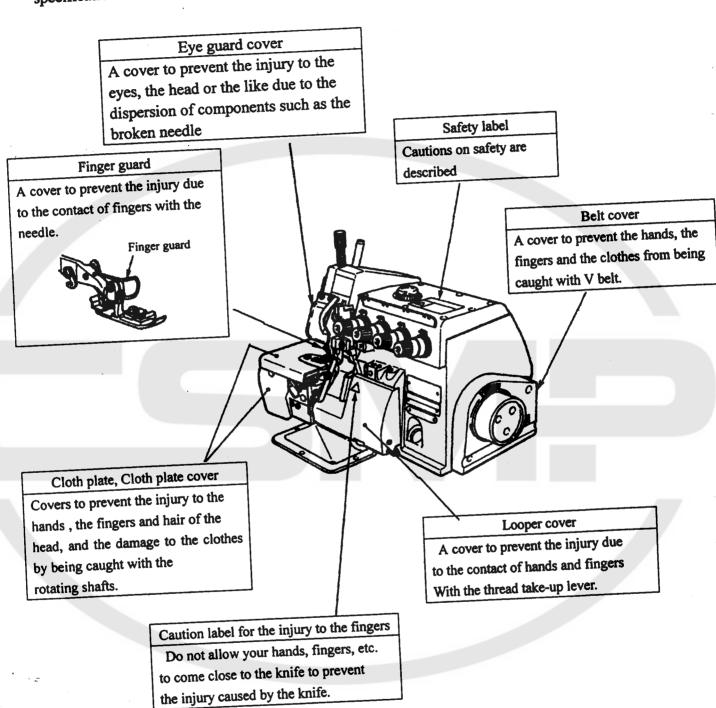




13. To protect against personal injury resitting from possible drop of the machine, do not carry your machine by holding the cloth plate cover by hand. Doing so may cause the cover to open or break resulting in drop hazards.

SAFETY DEVICE

Safety devices herein described may differ in accordance with the destination and NOTE: specifications.



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I. SPECIFICATIONS

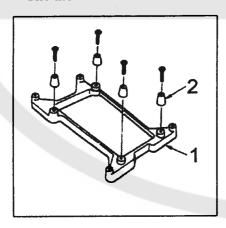
| | OV - 804 | OV - 814 | OV - 816 | | | |
|-------------------------|---|--------------------|-----------------------------------|--|--|--|
| Sewing speed | Max. 6,500 rpm | | | | | |
| | (Exc | luding some subcl | ass models) | | | |
| Stitch length | 1.0~3.6 | mm | 1.5~3.6 mm | | | |
| Needle gauge | | 2.0 mm | 3.2, 4.8 mm | | | |
| Overedge width | 4.0 m | ım | 4.0, 4.8, 6.4 mm | | | |
| Differential feed ratio | Gathering stitch 1:1.9 (N | Max. 1:2.9) Stre | etching stitch 1:0.8 (Max. 1:0.6) | | | |
| Needle | DC×27 | (Standard) DC | X1 may be used. | | | |
| Presser foot lift | | 6.5 mm | · | | | |
| | Excluding some subclass models | | | | | |
| Lubricating oil | No | .32 For special pu | rposes Oil | | | |
| Noise | Workplace-related noise at sewing speed n=5,000 min-1:LPA ≤83 dB(A) | | | | | |
| | Noise measure | ement according to | DIN 45635-48-A-1. | | | |

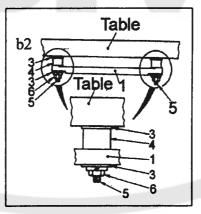
II. INSTALLATION

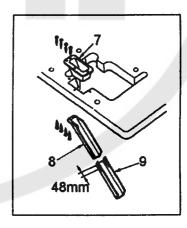
1. INSTALLING THE FRAME SUPPORT PLATE

- (1) Semi-sunken type
 - 1) Attach rubber cushion 2 to frame support plate 1).
- 2) Attach support plate washer③, support plate bolt spacer④, frame support plate①and support plate washer③in the written order to the machine table. Then fix the frame support plate to the machine table with support plate bolt A⑤and nut⑥.
- 3) Install waste chute opening Ton the front side of the upper surface of the table, and install waste chute (upper) Bon the bottom face of the table.
 - 4) Install waste chute (lower) Oon waste chute(upper) 8.

The installation of the chutes can be adjusted within a length of 48 mm.







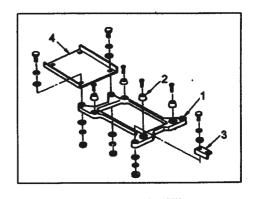
- (2) Fully-sunken type
- 1) Attach frame support plate joint A4, frame support plate joint and rubber cushion to frame support plate 1.
 - 2) Fix support plate bolt B6to the machine table.
- 3) Put frame support plate joint A@and frame support plate joint B@between support plate washers⑤respectively.

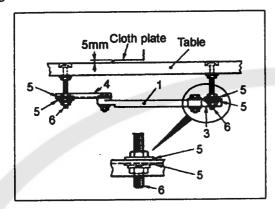
Install frame support plate ① so that the cloth plate is 5 mm higher than the upper surface

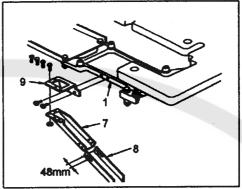
of the machine table.

- 4) Install waste chute stopper plate 9 on frame support plate.
- 5) Install waste chute(upper) Ton waste chute stopper plate (9).
- 6) Install waste chute(lower)®on waste chute (upper) ⑦.

The installation of the chutes can be adjusted within a length of 48 mm.



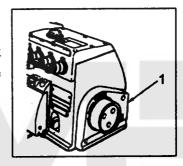




2. ATTACHING THE BELT COVER

To protect against possible personal injury due to abrupt start of the Machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

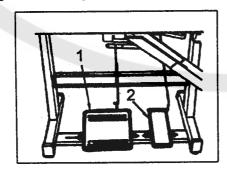
Attach belt cover 1 to the machine head.

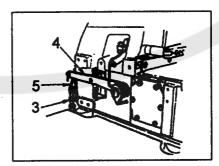


3. INSTALLING THE PEDALS

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

- 1) Install starting pedal Oon the left and presser lifter pedal Oon the right as seen from the operator.
- 2) Use an S-shaped hook 5 to connect chain 3 of the presser lifter pedal to the hole located in the top end of presser lifting lever 4.





III. PREPARATION AND OPERATION

To avoid malfunction and damage of the machine, confirm the following:

1) Before you put the machine into operation for the first time after set-up, clean it

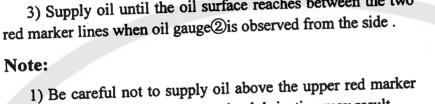
thoroughly.

- 2) Remove all dust gathering during transportation and oil it well.
- 3) Confirm that the voltage has been correctly set.
- 4) Confirm that the voltage has been correctly connected to the power supply.
- 5) Never use the machine in the state where the voltage type is different from the designated one.

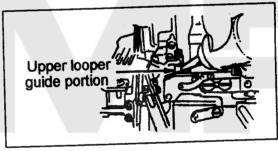
1. LUBRICATION

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

- 1) Remove oil cap①.
- 2) Pour NO.32 for special purposes oil reservoir.
- 3) Supply oil until the oil surface reaches between the two



- line, or else troubles due to excessive lubrication may result. 2) Change oil when one month has passed after the setup of the sewing machine. Then,
- change oil every six months. 3) Supply oil if the oil surface comes down under the lower marker line when observing the
- oil gauge from the side. Needle bar



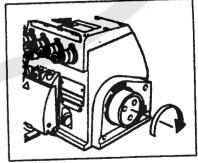


Apply two or three drops of oil to the needle bar and upper looper guide portion when operating the machine for the first time after set-up or after a long period of disuse.

2. CHECKING THE DIRECTION OF ROTATION

1) The correct direction of rotation of the sewing machine is clockwise when observing the machine from the handwheel side.

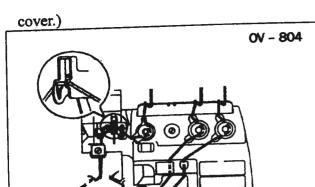
Never allow the machine to rotate in the reverse direction. If the machine rotates counterclockwise, the oil pump will fail to function resulting in seizure.

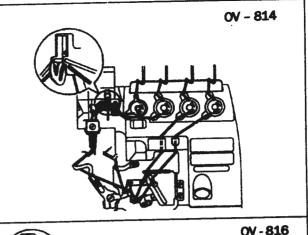


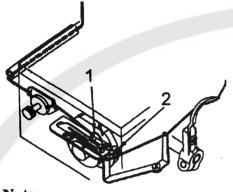
3. THREADING THE MACHINE

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

Thread the machine as shown in the figure. (Threading diagram is pasted inside the looper

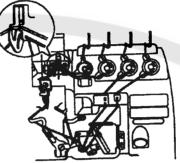






Note:

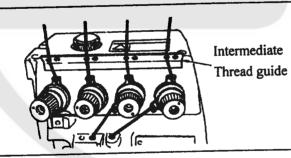
Raise looper thread cam thread guide ① and perform threading. Return looper thread cam thread guide ① to its home position and securely fix it to thread guide spring ②.



Note:

Be sure to pass the needle thread for double chainstitch through the needle thread take-up lever.

(Pass the needle thread for overlocking through the thread take-up lever located outside.)



Note:

When using an untwisted thread such as wooly nylon thread or weak thread, do not wind it round the intermediate thread guide.

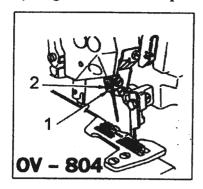
4. ATTACHING NEEDLES

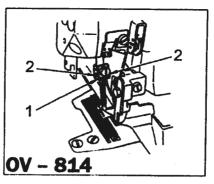
To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

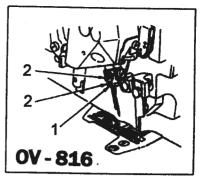
The standard needle is $DC \times 27\#11$. You can also use the $DC \times 1$ needle. In this case, however, the clearance provided between the needle and the looper may be required to be adjusted. If sewing needs to be carried out with a finely adjusted thread tension, use the $DC \times 27$ needle.

- 1) Bring needle clamp() up to the highest position.
- 2) Loosen needle clamp screw2, and fully insert the needle into the needle clamp hole with the needle recess facing backward as viewed from the operator's side.

3) Tighten needle clamp screw2.





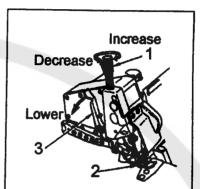


5. ADJUSTING THE PRESSURE OF THE PRESSER FOOT AND REMOVING THE PRESSER FOOT

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at

1) Adjust the pressure of the presser foot by turning presser foot adjust screw1.

When the adjust screw is turned clockwise, the pressure will increase. When it is turned counterclockwise, the pressure will decrease.

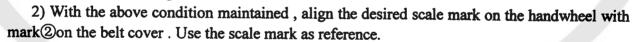


2) To open presser foot@sideward, raise the needle to the highest position of its stroke and lower presser bar lifting lever3.

6. ADJUSTING THE STITCH LENGTH

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

1) Slowly turn the handwheel as you keep depressing pushbutton(1), and you will find a point at which the pushbutton goes in farther.

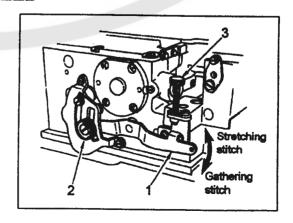


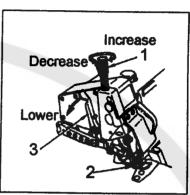
3) Reset pushbutton (1) after setting the scale mark.

7.ADJUSTING THE DIFFERENTIAL FEED

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

- 1) Loosen differential feed lock nut2. Move differential feed adjusting lever (1) up for stretching stitch or down for gathering stitch.
- 2) When you want to move differential feed adjusting lever Donly slightly, use differential





feed fine adjustment screw3.

- 3) When the scale mark is set to "-1", the machine will perform stretching stitch with a differential feed ratio of 1:0.8, and when it is set to "0", the differential feed ratio between the main feed dog and the differential feed dog will be 1:1.
- 4) The maximum differential feed ratio for gathering is 1:1.9 (it can be set to 1:2.9 depending on the adjustment of the internal mechanism of the sewing machine). The scale marks beyond "0" are used as reference.

IV. MAINTENANCE

1. ADJUSTING THE KNIVES AND OVEREDGE WIDTH

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

1) Height of the lower knife

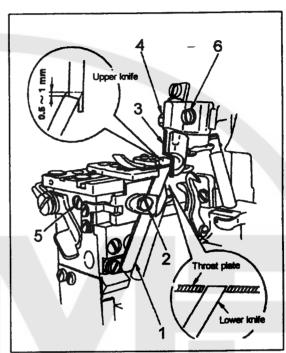
Loosen setscrew 2 and adjust the height of lower knife 1 so that its edge is flush with the throat plate surface.

2) Height of the upper knife

Loosen setscrew@and perform adjustment so that upper knife ③ overlaps lower knife①by 0.5 to 1 mm when upper knife③is at its lowest position.

3) Overedge width

Overedge widths of 1.6 through 6.4 mm are provided by changing the parts or by using subclass models.



(The overedge width will be slightly larger than the knife cut width.)

To change the overedge width:

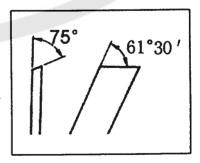
- 1) Loosening setscrew(5), push lower knife(1) to the left and fix it.
- 2) Loosen setscrew@and move upper knife@as required, then fix it.
- 3) Lower the upper knife to its lowest point and loosen setscrew. Tighten setscrew when the lower knife comes in contact with the upper knife.

Note:

- 1) Be sure to tighten setscrew 5 before operating machine.
- 2) After the completion of adjustment, make the knives cut a thread to make sure of sharpness of the knives.

4) Resharpening the lower knife

When the lower knife has become dull, resharpen it as shown in the figure right.



2. CLEANING THE MACHINE HEAD

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.

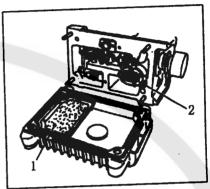
Clear lint from inside the looper cover and the needle bar and components about one or twice a day. If not, oil may leak or the sewing material will be soiled.

Note:

Do not wipe the coated surface of the machine head with lacquer thinner. Doing so will damage the coated surface.

3. CLEANING THE FILTER AND PUMP NET

- 1) To use the sewing machine for an extended period of time, clean filter and pump net 2 periodically twice or three times a year. If the filter and pump net are clogged with dusts, the machine components may be seized or worn out extraordinarily. So, carefully check the filter and pump net.
- 2) If the lubricating oil in the machine is stained, change the oil also at the time of cleaning.



4. MOTOR PULLEY AND V BELT

| | PULLET | | 60 Hz | | | | |
|-------------------------------|--------------------------------|----|-------------------|-------------------|---------------------|----------------------|--|
| Number of | 17 halt (inch) | | | | V belt (inch) | | |
| Revolutions of Sewing machine | Sewing diameter of Semi-sunken | | Fully-sunken type | diameter of motor | Semi-sunken type | Fully-sunken type | |
| (rpm) | (mm) | | 32 | pulley (mm) | 36 | 32 | |
| 6,500 | 120 110 | 38 | 32 | 95 | 35 | 30 | |
| 5,500 | 100 | 36 | 32 | 85 80 | 35 | 30 | |
| 5,000 4,500 | 90 80 | 35 | 30 | 70 | 34 | 30 | |

- 1) Use a clutch motor of 1/2 HP (400W).
- 2) Use an M type V belt.
- 3) Relations among number of revolutions of sewing machine, motor pulley, and length of V belt are as shown in the aforementioned table.
 - 4) Effective diameter of the handwheel of sewing machine head is 50.6 mm.

5. DIMENSIONS USED TO ADJUST THE LOOPER AND THE NEEDLE

GUARD

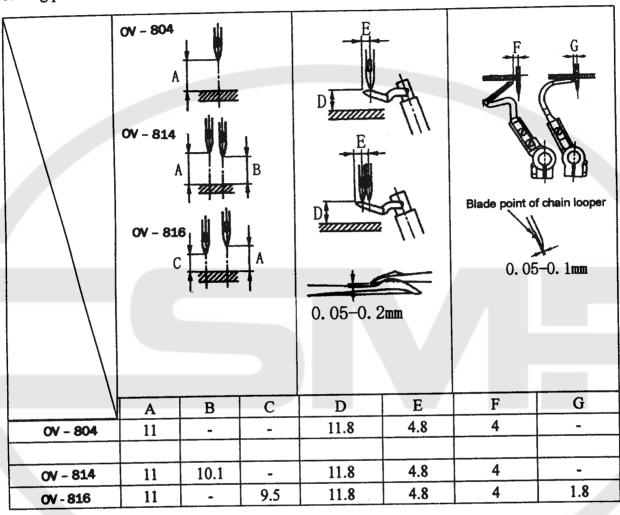
- 1) To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.
- 2) To avoid possible accidents due to unfamiliarity with the machine, get a maintenance man who has a good knowledge of the machine or serviceman of our distributor to adjust the machine

or replace any of its parts.

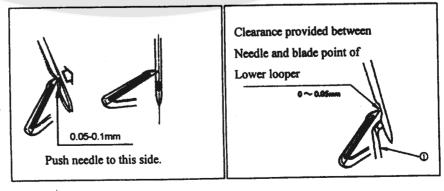
3) To avoid possible personal injury when the machine starts, it has to be ascertained in prior to the actuation of the machine that no screw are loosened and no components come in contact one another.

Note:

The dimensions given in the table are standard ones to be used to adjust the looper. They are intended to be used for reference and should be changed more or less in Accordance with the sewing products and thread to be used.



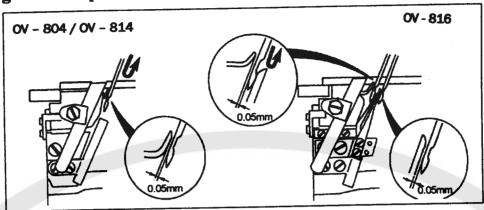
1) Adjust the lower looper so that the needle is pushed by 0.05 to 0.1mm to this side by the blade point of lower lopper in the state where the blade point of lower looper is aligned with the center of needle.



2) Then, adjust traveling needle guard ① so that the clearance provided between the needle and the blade point of lower looper should be 0 to 0.05mm in the state where the needle is pushed to this side by traveling needle guard ①.

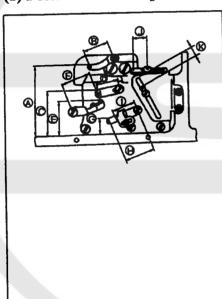
For the 2-needle overlock machine, adjust both the left and right needles in the same manner.

Needle guard components



6. DIMENSIONS RELATED TO THE POSITION OF THE THREAD TAKE-UP AND THE LOOPER THREAD CAM (STANDARD ADJUSTMENT)

(1) Position of the looper thread take-up lever and the looper thread guide

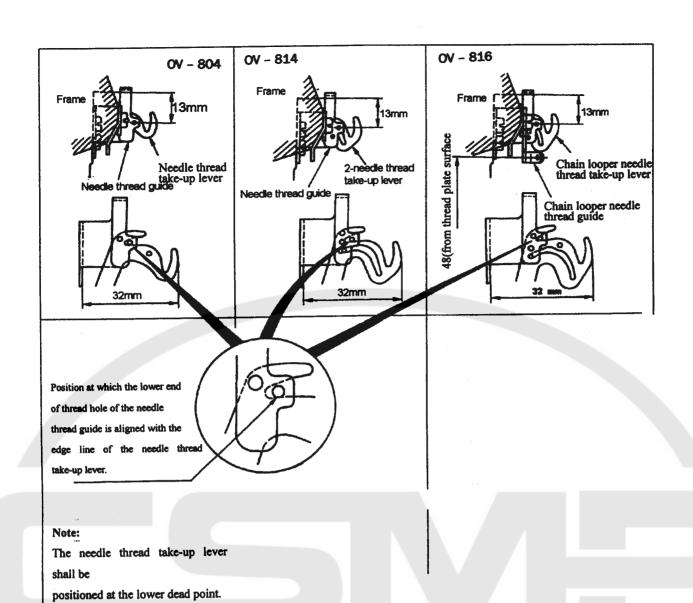


| | Α | В | С | D | Е | F | G | Н | I | J | K |
|----------|----|----|------|----|----|----|---|----|------|----|---|
| OV - 804 | 68 | 25 | 44.5 | 22 | 37 | 26 | 9 | 26 | 22 | 12 | 6 |
| OV - 814 | 1 | 1 | 1 | t | /t | t | 8 | 27 | 23.5 | 1 | t |
| OV - 816 | 1 | 1 | 1 | t/ | t | 1 | 9 | 26 | 22 | 1 | t |

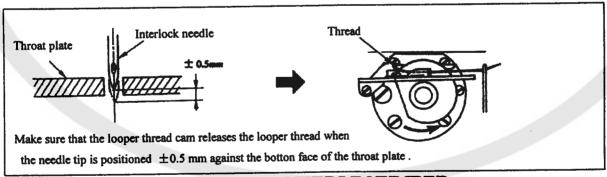
Dimensions of E and G are adjustment values when the upper looper is at its rightmost point.

(2) Position of the needle thread take-up lever and needle thread guide

To protect against possible personal injury due to abrupt start of the machine, be sure to start the following work after turning the power off and ascertaining that the motor is at rest.



(3) Adjustment value for the looper thread cam ('OV-816')



7. CONVERSION TABLE OF THE NEEDLE NUMBER

| JAPAN (ORGAN) | GERMAN (SCHMETZ) |
|---------------|------------------|
| DC×27 #9 | B-27 Nm65 |
| DC×27 #11 | B-27 Nm75 |
| DC×27 #14 | B-27 Nm90 |
| DC×27 #16 | B-27 Nm100 |
| DC×27 #18 | B-27 Nm110 |
| DC×27 #19 | B-27 Nm120 |
| DC×27 #21 | B-27 Nm130 |



OV-800 Series

0V - 804

1-Needle, Overeaging Industrial Sewing Machine

0V - 814

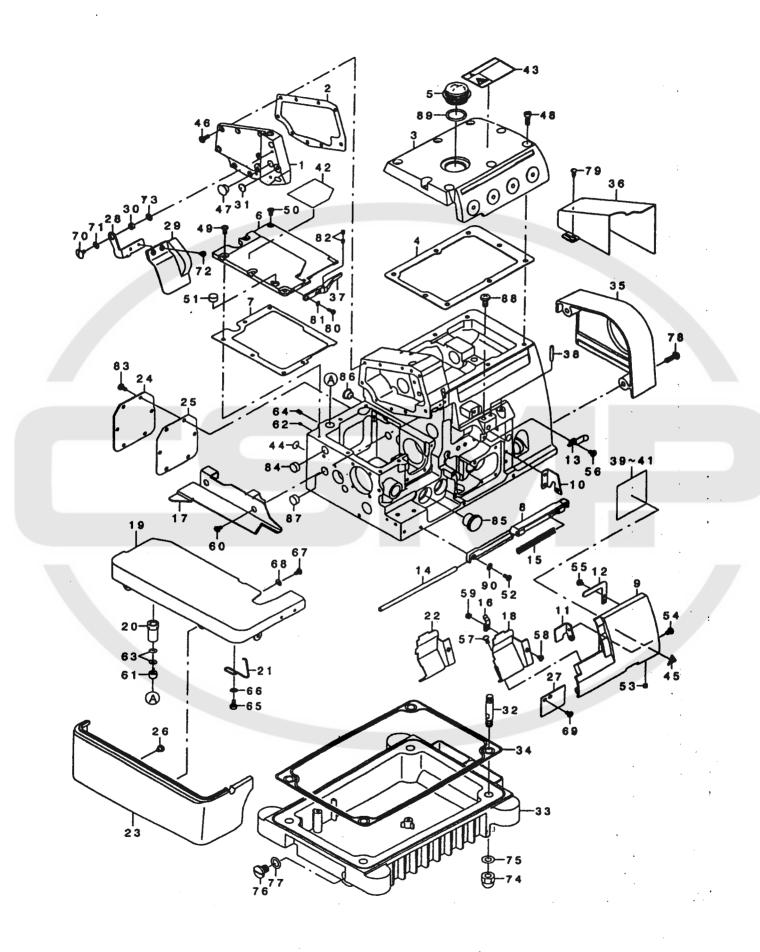
2-Needle, Overedging Industrial Sewing Machine

0V - 816

Safety Stitch Industrial Sewing Machine

CATALOG

1. FRAME & MISCELLANEOUS COVER COMPONENTS



| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE | REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|------------|-------------|--|-----|------|------------|--------------------------------|--------------------------------|-----|------|
| | | FRAME COMPONENTS | 1 | | 46 | SM-4041055-SP | SCREW | 6 | |
| 1 | | SIDE COVER | 1 | | 47 | 8107107 | BUSHING D PLUG | 1 | |
| 2 | 8000206 | SIDE COVER GASKET | 1 | | 48 | 8119508 | SCREW | 8 | |
| 3 | 8000305 | UPPER COVER | 1 | | 49 | SM-4040855-SP | SCREW | 5 | |
| 1 | 8000404 | UPPER COVER GASKET | 1 | | 50 | SM-1040801-SP | SCREW M4X0.7 L=8 | 1 | |
| 5 | 8000503 | OIL SIGHT WINDOW | 1 | | 51 | 8106802 | CLOTH PLATE RUBBER CUSHION B | 1 | |
| 6 | 8000602 | FEED MECHANISM COVER | 1 | | 52 | SM-4041055-SP | SCREW | 3 | |
| 7 | 8000701 | GASKET | 1 | | 53 | SM-8040412-TP | SET SCREW M4 L=4 | 1 | |
| 8 | 8000800 | LOOPER COVER BRACKET | 1 | | 54 | SM-4040655-SP | SCREW M4 L=6 | 1 | |
| 9 | 8000909 | LOOPER COVER | 1 | | 55 | 8118005 | SCREW | 1 | |
| 10 | 8001006 | LOOPER COVER STOPPER | 1 | | 56 | SM-4040655-SP | SCREW M4 L=6 | | |
| 11 | 8001105 | GUIDE PLATE | 1 | | 57 | SM-4040655-SP | SCREW M4 L=6 | 2 | |
| 12 | 8001204 | PRESSER PLATE | 1 | | 58 | SS-2090520-SL | SCREW 9/64-40 L=5 | 1 . | |
| 13 | | PRESSER SPRING | 1 | | 59 | NS-6090310-SN | NUT 9/64-40 | 1 | |
| 14 | | HINGE PIN | 1 | | 60 | SM-4040655-SP | SCREW M4 L=6 | 2 | |
| 15 | | LOOPER COVER SPRING | 1 | | 61 | 8100003 | CLOTH PLATE HINGE SHAFT COLLAR | L. | |
| 16 | | CLOTH WASTE COVER STOPPER | 1 | | 62 | SM-8030312-TP | SCREW M3 L=3 | 2 | |
| 17 | | CLOTH PLATE SIDE COVER | 1 | | 63 | WZ-0420350-KP | DISC SPRING | 1 | |
| 18 | 1 | CLOTH WASTE COVER | 1 | 02 | 64 | SM-8040612-TP | SCREW M4 L=6 | 2 | |
| 19 | 1 | CLOTH PLATE COMPL. | 1 | | 65 | SM-6040800-SP WP-0430800-SD | SCREW WASHER M4 | 2 | |
| 20 | | ECCENTRIC BUSHING . | 1 | | 66 | SM-4040655-SP | | 3 | |
| 21 | 1 | CLOTH PLATE SPRING | 1 | ١,, | 67 | WP-0430800-SD | SCREW M4 L=6 WASHER M4 | 3 | |
| | 1 | CLOTH WASTE COVER | 1 | 01 | 68 69 | SM-4040655-SP | SCREW M4 L=6 | 2 | |
| 23 | i | CLOTH PLATE COVER COMPL. | 1 | | 70 | 8115308 | SCREW | 1 | |
| 24 | 8009009 | COVER | 1 | | 71 | | WAVED WASHER 8. 5X12. 5X0. 3 | 1 | |
| 25 | 8009108 | | 2 | | 72 | | SCREW M3 L=5 | 2 | 1 |
| 26 | | RUBBER CUSHION CLOTH WASTE COVER (LEFT) | 1 | | 73 | 8111505 | WASHER | 1 | |
| 27 | | EYE GUARD COVER BASE | | | | 8109103 | NUT | 4 | |
| | 1 | | 1 | | li | 8111208 | WASHER | 4 | |
| | 1 | EYE GUARD COVER PASE COLLAR | | | H | 8114103 | SCREW | i | |
| | | EYE GUARD COVER BASE COLLAR EYE GUARD COVER BASE BUSHING | 1 | | | RO-1082401-OO | | 1 | |
| 31 | 8003903 | | 4 | | | | SCREW M5 L=16 | 2 | |
| 32 | | OIL RESERVOIR | 1 | | | 8126008 | SCREW | 2 | |
| | | OIL RESERVOIR GASKET | 1 | | 80 | 8124102 | SCREW | 2 | |
| | | BELT COVER | 1 | | 81 | WP-0320501-SD | | 2 | |
| 36 | 1 | BELT COVER B | 1 | | Н . | l . | SET SCREW M4 L=4 | 2 | |
| 37 | 1 | THROAT PLATE RETAINER | 1 | | 83 | SM-4040855-SP | SCREW | 6 | |
| 38 | 1 | THREAD GUIDE (LARGE) | 2 | | | 8107008 | RUBBER PLUG | 1 | |
| 39 | | THREADING DIAGRAM | 1 | 03 | | 8107206 | RUBBER PLUG | 1 | 02 |
| 40 | | THREADING DIAGRAM | 1 | 04 | 86 | 8107107 | BUSHING D PLUG | 1 | |
| 41 | | THREADING DIAGRAM | 1 | 01 | 87 | 8107008 | RUBBER PLUG | 1 | 02 |
| 42 | 1 | THREADING DIAGRAM | 1 | 01 | 88 | 1 | SCREW M6 L=12 | 1 | |
| 43 | 1 | SAFETY LABEL 3 (SMALL) | 1 | | 89 | RO-2182401-OO | RUBBER RING | 1 | • |
| 44 | 1 | GROUND MARK | 1 | | 90 | WP-0430800-SD | WASHER M4 | 3 | |
| 45 | 1 | ATTENTION SEAL | 1 | | 91 | 8115209 | SCREW | 3 | • |

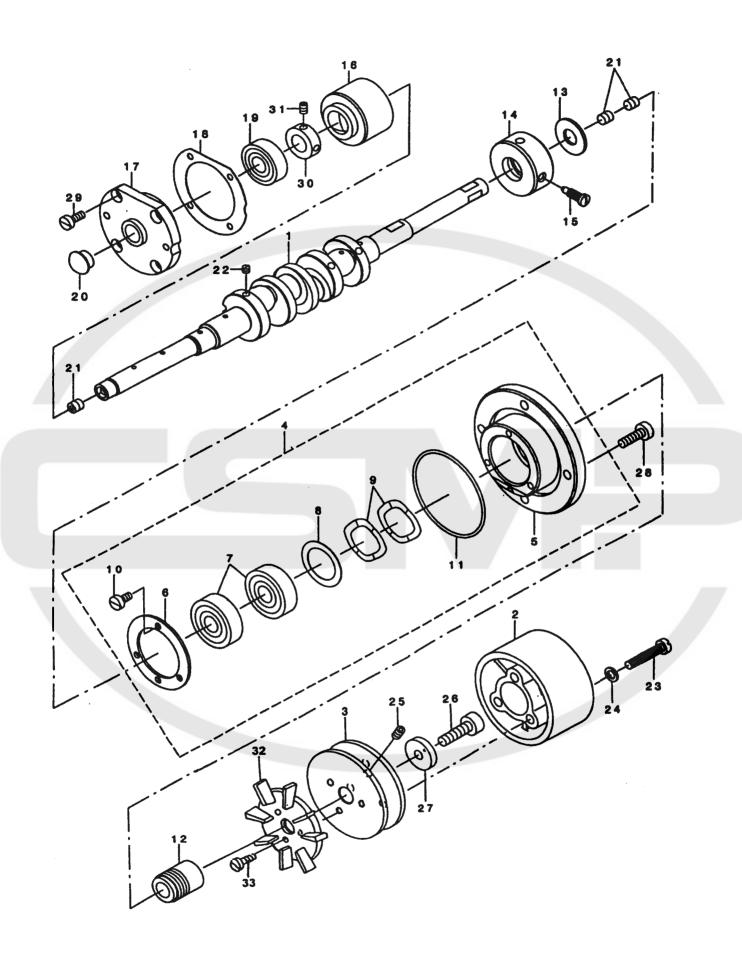
NOTE: 01.. OV - 816

02... OV - 804 / OV - 814

03.. **OV - 804**

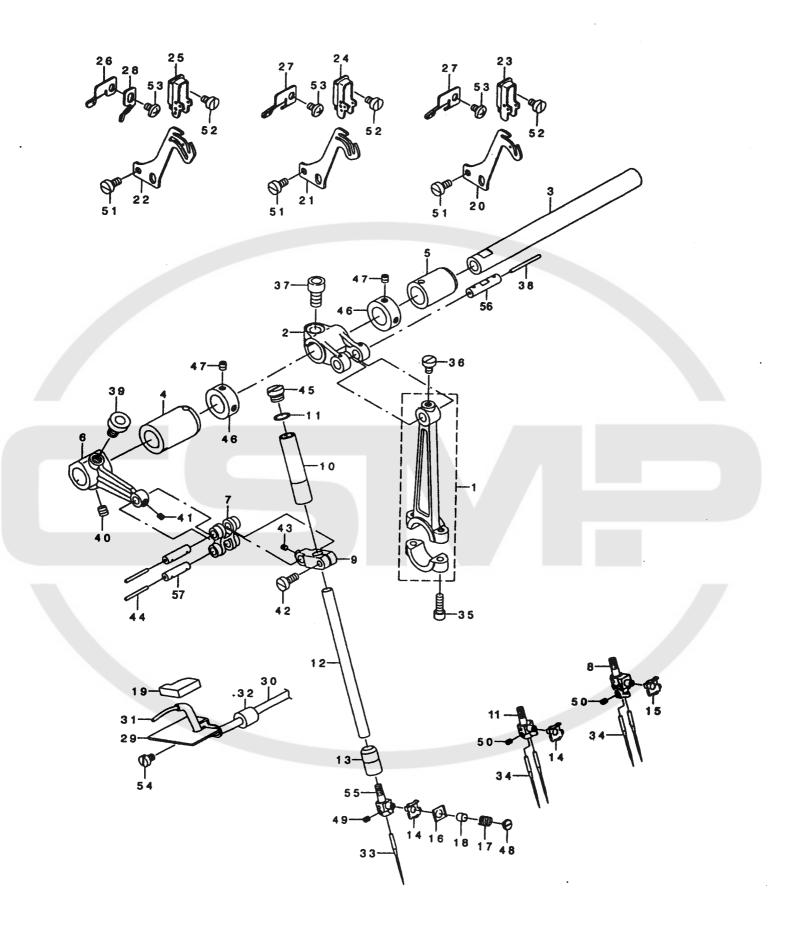
⁰⁴... ov - 814

2. CRANKSHAFT COMPONENTS



| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|---------------|-------------------------------|-----|------|
| ı | 8010015 | CRANKSHAFT | 1 | • |
| 2 | 8010106 | HAND WHEEL B | 1 | |
| 3 | 8010205 | HAND WHEEL A | 1 | |
| 4 | 8010353 | CRANKSHAFT THRUST COLLAR SAM. | 1 | |
| 5 | 8010304 | CRANKSHAFT THRUST COLLAR | (1) | |
| 6 | 8010403 | BEARING SUPPORT PLATE | (1) | |
| 7 | 8104104 | CRANKSHAFT BEARING | (2) | |
| 8 | 8010502 | BEARING RECEIVING PLATE | (1) | |
| 9 | 8112909 | WASHER | (2) | |
| 10 | SM-6040800-SP | SCREW | (3) | |
| 11 | RO-493501-OO | RUBBER RING | (1) | * |
| 12 | 8010601 | OIL SHIELD | 1 | |
| 13 | 8010700 | BEARING RETAINER | 1 | |
| 14 | 8010809 | CRANKSHAFT BUSHING B | 1 | |
| 15 | 8010908 | SCREW | 1 | |
| 16 | 8011112 | CRANKSHAFT BUSHING C | 1 | • |
| 17 | 8011203 | CRANKSHAFT BUSHING D | 1 | |
| 18 | 8011302 | BUSHING D GASKET | 1 | |
| 19 | 8104005 | BUSHING D BEARING | 1 | |
| 20 | 8107107 | BUSHING D PLUG | 1 | 01 |
| 21 | SM-8060612-TP | SCREW M6 L=6 | 3 | |
| 22 | SM-8040310-SS | SCREW M4 L=3 | 4 | |
| 23 | 8119706 | SCREW | 3 | |
| 24 | 8110606 | WASHER | 3 | |
| 25 | SM-8061212-TP | SCREW M6 L=12 | 2 | |
| 26 | SM-6061602-TP | SCREW M6 L=16 | 1 | |
| 27 | 8111000 | WASHER | 1 | |
| 28 | SM-6051600-SP | SCREW M5 L=16 | 4 | |
| 29 | SM-6041000-SP | SCREW M4 L=10 | 4 | |
| 30 | 8100300 | SLIDE BLOCK COLLAR | 1 | 01 |
| 31 | SM-8040412-TP | SET SCREW M4 L=4 | 2 | 01 |
| 32 | 8011500 | LEAF WIND | 1 | |
| 33 | 8121207 | SCREW | 3 | |

₀₁... **ov - 804 / ov - 814**



| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|---------------|---------------------------------|--------|--------|
| | 8012508 | NEEDLE DRIVING ROD | 1 | 1 |
| 1 | 8012607 | NEEDLE DRIVING FORKED CRANK | 1 | |
| | 8012805 | NEEDLE DRIVING SHAFT | 1 | |
| 1 . | 8012904 | BUSHING , FRONT | 1 | |
| 5 | 8013001 | BUSHING , REAR | 1 | |
| 6 | 8013209 | NEEDLE DRIVING ARM | 1 | 1 |
| | 8013308 | NEEDLE DRIVING LINK | 1 | |
| 8 | 8065407 | NEEDLE CLAMP , CHAIN LOOPER | 1 | 02 |
| | 8013506 | NEEDLE BAR HOLDER | 1 | |
| 10 | 8013605 | NEEDLE BAR BUSHING, UPPER | 1 | |
| 1 | 8065100 | NEEDLE CLAMP , 2-NEEDLE | 1 | 04 |
| 12 | 8013803 | NEEDLE BAR | 1 | 1 |
| 13 | 8013902 | NEEDLE BAR BUSHING, LOWER | 1 | |
| 14 | 8016103 | NEEDLE THREAD PRESSER GUIDE A | 1 | 01 |
| 15 | 8014009 | NEEDLE THREAD PRESSER GUIDE | 1 | 02 |
| 16 | 8014207 | NEEDLE THREAD PRESSER PLATE A | 1 | i |
| 17 | 8014405 | NEEDLE THREAD PRESSER SPRING | 1 | |
| 18 | 8014504 | THREAD GUIDE COLLAR | 1 | |
| 19 | 8015709 | FELT | 2 | 03 |
| 20 | 8014603 | TAKE-UP LEVER | 1 | 04 |
| 21 | 8014702 | TAKE-UP LEVER , 2-NEEDLE | 1 | 02 |
| 22 | 8014801 | TAKE-UP LEVER, CHAIN LOOP | 1 | 03 |
| 23 | 8014900 | NEEDLE THREAD GUIDE | 1 | 04 |
| 24 | 8015006 | NEEDLE THREAD GUIDE , 2-NEEDLE | 1 | 02 |
| 25 | 8015105 | THREAD GUIDE, CHAIN LOOP | 1 | 02 |
| 26 | 8015303 | TAKE-UP LEVER GUIDE | 1 | 01 |
| 27 | 8015402 | TAKE-UP LEVER GUIDE , 2-NEEDLE | 1 | 01 |
| 28 | 8015501 | TAKE-UP LEVER GÜIDE, CHAIN LOOP | 1 | "2 |
| 29 | 8015600 | COVER | 1 | |
| 30 | BP-3000001-OO | VINYL TUBE | 0.31 | |
| 31 | CQ-2000000-OO | OIL WICK | 0. 32 | |
| 32 | 8107503 | PLUG | 1 1 | 03 |
| 33 | MDC-270B11-OO | NEEDLE DCX27#11 | _ | 05 |
| 34 | MDC-270B11-OO | NEEDLE DCX27#11 | 2 | ا ده ا |
| 35 | SM-6041202-TP | SCREW M4X0. 7 L=12 | 2 | |
| 36 | SM-6040600-SP | SCREW M4 L=6 | 1 | |
| 37 | SM-6061202-TP | SCREW M6 L=12 | 1 | |
| 38 | CQ-2000000-OO | OIL WICK | 0. 05 | |
| 39 | SM-6061002-TP | SCREW M6 L=10 | 1 | |
| 40 | SM-8050502-TP | SCREW M5 L=5 | 1 | |
| 41 | SM-8030312-TP | SCREW M3 L=3 | 1 | |
| 42 | SM-6041000-SP | SCREW M4 L=10 | 1 | |
| 43 | SM-8030312-TP | SCREW M3 L=3 | 0. 04 | |
| 44 | CQ-2000000-OO | OIL WICK | | |
| 45 | 8120605 | SCREW | 1 2 | |
| 46 | 8100409 | THRUST COLLAR | | |
| 47 | SM-8040412-TP | SET SCREW M4 L=4 | 4 | |
| 48 | 8117205 | SCREW | 1 | 03 |
| 49 | SM-8030312-TP | SCREW M3 L=3 | 1 2 | 05 |
| 50 | SM-8030312-TP | SCREW M3 L=3 | 1 | ", |
| 51 | SM-6040800-SP | SCREW | 2 2 | |
| 52 | SM-6040600-SP | SCREW M4 L=6 | | |
| 53 | SM-4040655-SP | SCREW M4 L=6 | 1 2 | 1 |
| 54 | 8118104 | SCREW | 1 | 03 |
| 55 | 8065001 | NEEDLE CLAMP | 1 | " |
| 56 | 80162A0 | CRANK PINA | 2 | |
| 57 | 80120A1 | LINK PIN C | | M/ 916 |

NOTE: 01 OV - 804 / OV - 814

03... **OV - 804**

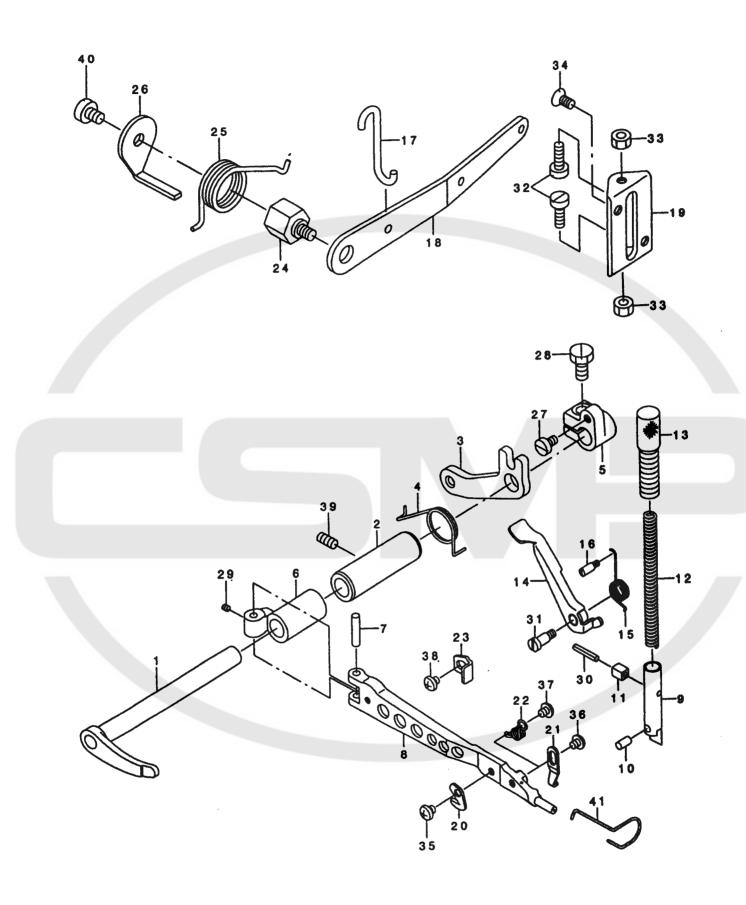
05.... OV - 814 / OV - 816

⁰².. ov - 816

04.... **OV - 814**

06....FOR SELECTIVE PART

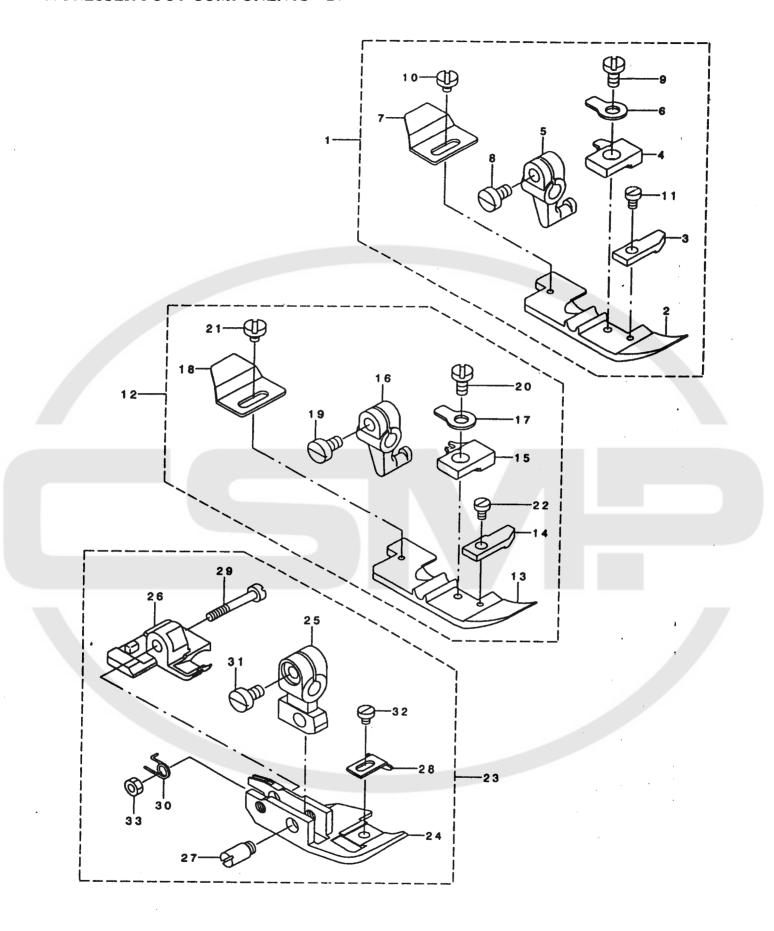
4. PRESSER FOOT COMPONENTS (1)



| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|---------------|------------------------------|-----|------|
| 1 | 8017507 | PRESSER FOOT SHAFT | 1 | |
| 2 | 8017606 | BUSHING | 1 | |
| 3 | 8017705 | LIFTING ARM | 1 | |
| 4 | 8017804 | SPRING | 1 | |
| 5 | 8017903 | THRUST ARM | 1 | |
| 6 | 8018000 | PRESSER FOOT SHAFT ARM | 1 | |
| 7 | 8018109 | PRESSER FOOT ARM HINGE SHAFT | 1 | |
| 8 | 8018208 | PRESSER FOOT ARM | 1 | |
| 9 | 8018414 | PRESSER BAR | 1 | |
| 10 | 8018513 | PRESSER BAR BLOCK | 1 | |
| 11 | 8018604 | LIFTING PIN BLOCK | 1 | |
| 12 | 8018703 | PRESSER SPRING | 1 | |
| 13 | 8018802 | PRESSER REGULATOR SCREW | 1 | |
| 14 | 8018950 | PRESSER LIFTING LEVER SAM. | 1 | |
| . 15 | 8019107 | SPRING | 1 | |
| 16 | 8019206 | STOPPER | 1 | |
| 17 | 8019305 | LEVER HOOK | 1 | |
| 18 | 8019404 | PRESSER FOOT LIFTING LEVER | 1 | |
| 19 | 8019503 | STOPPER PLATE | 1 | |
| 20 | 8019602 | THREAD TRIMMER | 1 | |
| 21 | 8019701 | STOPPER | 1 | 01 |
| 22 | 8019800 | PRESSER FOOT ARM SPRING | 1 | 02 |
| 23 | 8020006 | STOPPER | 1 | |
| 24 | 8020105 | HINGE SCREW | 1 | • |
| 25 | 8020204 | LIFTING LEVER SPRING | 1 | |
| 26 | 8020303 | LIFTING LEVER SPRING HOOK | 1 | |
| 27 | SS-6110710-TP | SCREW 11/64-40 L=6.5 | 1 | |
| 28 | SS-9151210-TP | SCREW 15/64-28 L=11.8 | 1 | |
| 29 | SM-8030312-TP | SCREW M3 L=3 | 1 | |
| 30 | 8101506 | PRESSER BAR LIFTING PIN | 1 | |
| 31 | 8113600 | HINGE SCREW | 1 | |
| 32 | SM-6051400-SP | SCREW | 2 | |
| 33 | NM-6050001-SP | NUT M5 | 2 | |
| 34 | 8121207 | SCREW | 2 | |
| 35 | 8118005 | SCREW | 1 | |
| 36 | 8118005 | SCREW | 1 | 0 1 |
| 37 | 8118005 | SCREW | 1 | 0 2 |
| i | 8118005 | SCREW | 1 | |
| 39 | SM-8051002-TP | SCREW M5 L=10 | 1 | |
| 40 | SM-6060800-SP | SCREW M6 L=8 | 1 | |
| 41 | 8067700 | FINGER GUARD | 1 | |

NOTE: 01.... OV - 804 / OV - 814 02. OV - 816

5. PRESSER FOOT COMPONENTS (2)

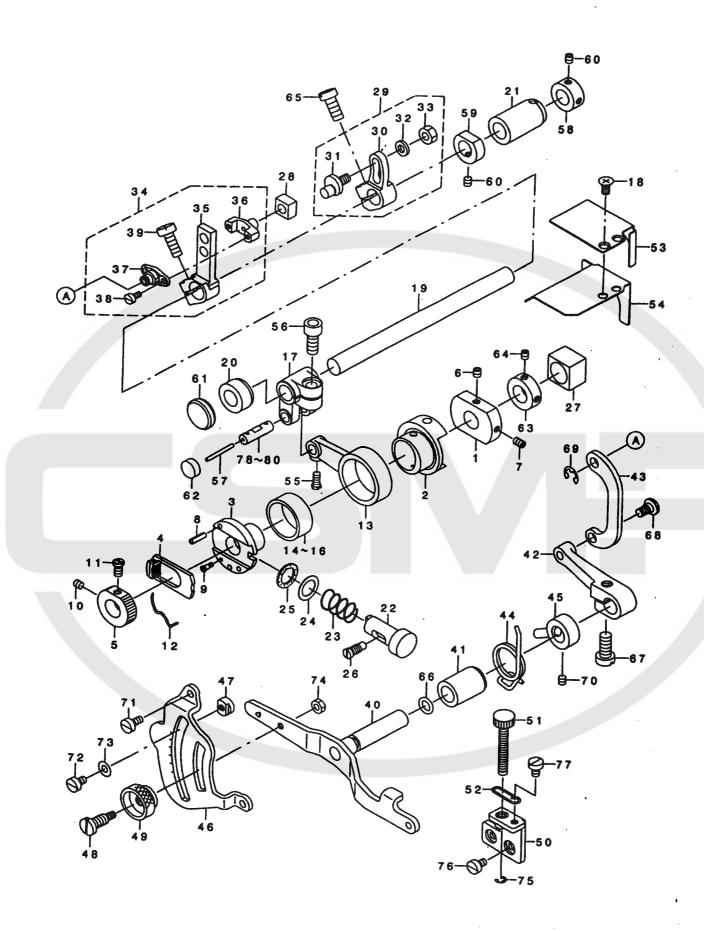


| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|---------------|---------------------|-----|------|
| 1 | 8066058 | PRESSER FOOT SAM. | 1 | 01 |
| 2 | 8067007 | PRESSER FOOT | (1) | |
| 3 | 8067160 | CURL GUARD | (1) | |
| 4 | 8067205 | STITCH TONGUE | (1) | |
| 5 | 8067304 | PRESSER FOOT HINGE | (1) | |
| 6 | 8067403 | SPRING | (1) | |
| 7 | 8067502 | REAR PRESSER FOOT | (1) | |
| 8 | SS-6090670-TP | SCREW 9/64-40 L=6 | (1) | • |
| 9 | 8116306 | SCREW | (1) | |
| 10 | 8116207 | SCREW | (1) | |
| 11 | SS-6060410-TP | SCREW 3/32-56 L=3.5 | (1) | |
| 12 | 8066553 | PRESSER FOOT SAM. | 1 | 02 |
| 13 | 8067809 | PRESSER FOOT | (1) | |
| 14 | 8067106 | CURL GUARD | (1) | |
| 15 | 8067908 | STITCH TONGUE | (1) | |
| 16 | 8067304 | PRESSER FOOT HINGE | (1) | |
| 17 | 8067403 | SPRING | (1) | |
| 18 | 8067502 | REAR PRESSER FOOT | (1) | |
| 19 | SS-6090670-TP | SCREW 9/64-40 L=6 | (1) | • |
| 20 | 8116306 | SCREW | (1) | |
| 21 | 8116207 | SCREW | (1) | |
| 22 | SS-6060410-TP | SCREW 3/32-56 L=3.5 | (1) | |
| 23 | 8070050 | PRESSER FOOT SAM. | 1 | 03 |
| 24 | 8071009 | PRESSER FOOT | (1) | |
| 25 | 8071108 | PRESSER FOOT HINGE | (1) | |
| 26 | 8071207 | REAR PRESSER FOOT | (1) | |
| 27 | 8071306 | HINGE PIN | (1) | |
| 28 | 8071405 | CLOTH PRESSER | (1) | |
| 29 | 8071504 | HINGE SCREW | (1) | |
| 30 | 8071603 | SPRING | (1) | |
| 31 | SS-6090670-TP | SCREW 9/64-40 L=6 | (1) | • |
| 32 | SS-6060340-SP | SCREW 3/32-56 L=2.5 | (1) | |
| 33 | NS-6080210-SP | NUT 1/8-44 | (1) | |

01... **OV - 804**

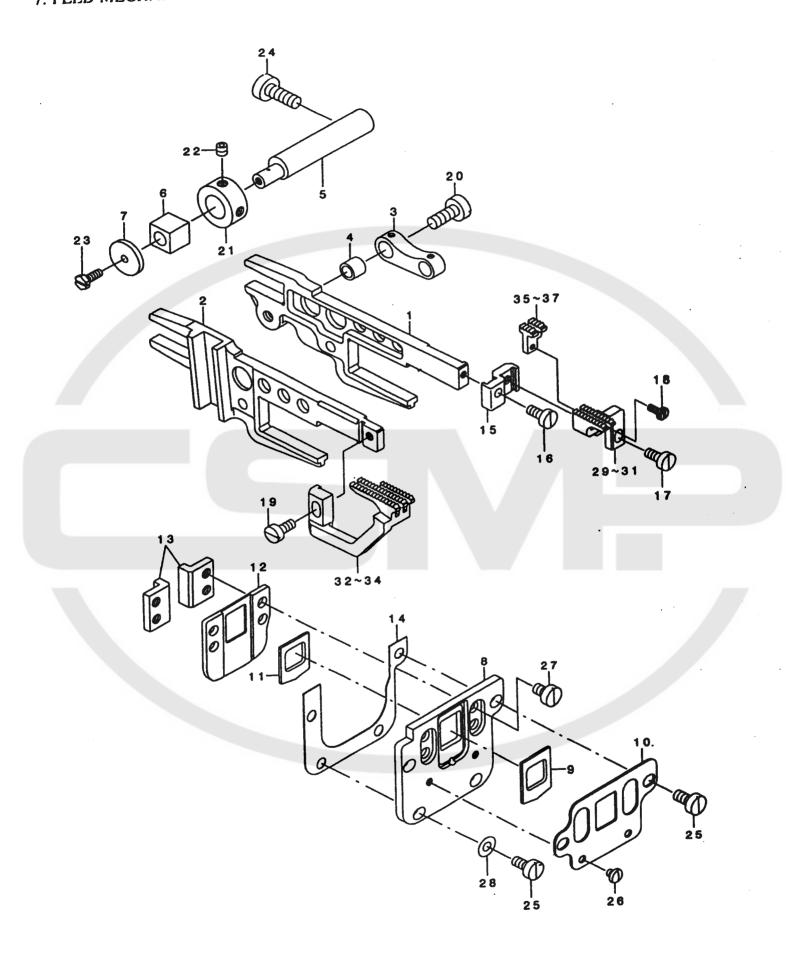
02... **OV - 814**

03.... **OV - 816**



| REF | | | <u></u> | NOTE | REF | PART NO. | DESCRIPTION | Qty | NOTE |
|-------|----------------|-------------------------------|---------|------|-----|------------------|------------------------------|------|-------|
| NO. | PART NO. | DESCRIPTION | Qty | MOIE | NO. | | DIFFERENTIAL FEED LINK | 1 | |
| 1 | 8021004 | FEED ECCENTRIC BODY | 1 | | 43 | 8024909 | SPRING | | |
| 2 | 0021100 | FEED CAM | 1 | | 44 | 8025005 | SPRING HOOK SAM. | 1 | |
| 3 | 8021301 | FEED ADJUSTING CAM | 1 | | 45 | 8025153 | DIFFERENTIAL FEED GRADUATION | 1 | |
| 4 | 8021509 | RATCHET PAWL | 1 | | 46 | 8025203 | STOPPER | 2 | |
| 5 | 8021608 | RATCHET GEAR | 1 | | 47 | 8025302 | HINGE SCREW | 1 | |
| 6 | SM-8040412-TP | SET SCREW NA L=4 | 1 | | 48 | 8025401 | LOCK NUT | | |
| 7 | SM-8040612-TP | SCREW M6 L=6 | 1 | | 49 | 8025500 | SCREW BASE SAM. | | . |
| × | 8101407 | PEED REGULATING PIN | 2 | | 50 | 8025609 | SCREW | | |
| 9 | 8117304 | SCREW | ١, | | 51 | 8025807 | ROTATION STOPPER | 1 | |
| 10 | SM-8040412-TP | SET SCREW NA L=4 | 1 | | 52 | 8025906 | 1 | 1 | . |
| 11 | 8118203 | RATCHET GEAR SET SCREW B | 1 | 1 | 53 | 8026615 | OIL SHIELD A | ; | |
| 12 | B1606-704-000 | RATCHET PAWL SPRING | 1 | | 54 | 8026714 | OIL SHIELD B | | |
| 13 | 8021806 | FEED CRANK ROD | 1 | | 55 | 8115100 | SCREW | | |
| 14 | 8021905 | FEED BEARING A | 1 | 01 | 56 | SM-6061402-TP | SCREW M6 L=14 | 0.04 | |
| 15 | 8022002 | FEED BEARING B | 1 | 01 | 57 | CQ-2000000-OO | | | |
| 16 | 8022101 | FEED BEARING C | 1 | 01 | 58 | 8100201 | THRUST COLLAR | | |
| 17 | 8022200 | FORKED CRANK | 1 | | 59 | 8027308 | THRUST COLLAR, THIN | 1 | |
| 18 | SM-1040801-SP | SCREW M4X0.7 L=8 | 2 | | 60 | SM-8040412-TP | SET SCREW M4 L-4 | 3 | |
| 19 | 8022408 | FEED SHAFT | 1 | 1 | 61 | 8107305 | RUBBER PLUG | 1 | |
| 20 | 8022507 | FEED SHAFT BUSHING , FRONT | 1 | ļ | 62 | 8106901 | RUBBER PLUG D-10.3 L-4 | ' | . |
| 21 | 8022606 | FEED SHAFT BUSHING REAR | 1 | | 63 | 8116504 | SCREW | ' | . |
| 22 | 8027803 | PUSH BUTTON SHAFT | 1 | • | 64 | RO-0952001-OC | RUBBER RING | 1 | |
| 23 | 8022804 | PUSH BUTTON SPRING | 1 | | 65 | 8120407 | SCREW | 1 ' | |
| 24 | 8022903 | WASHER . | 1 | | 66 | 8103205 | RUBBER RING | 1 | 1 |
| 25 | 8027902 | PUSH BUTTON SHAFT B | 1 | • | 67 | 8120407 | SCREW | 1 | |
| 26 | 8023117 | PUSH BUTTON SHAFT SCREW | 1 | | 68 | 8113808 | HINGE SCREW | 1 | |
| 27 | | SLIDE BLOCK | 1 | 1. | 69 | RE-0500000-KC | E-RING | 1 | |
| 21 | | DIFFERENTIAL FEED SLIDE BLOCK | 1 | | 70 | SM-8040412-TP | SET SCREW M4 L=4 | 2 | |
| | | MAIN FEED ROCKER SAM. | 1 | | 71 | SM-6040800-SP | SCREW | 2 | 4 |
| 25 | | MAIN FEED ROCKER | (1) | | 72 | SM-6040600-SF | SCREW M4 L=6 | 2 | |
| 34 | | PIN | (1) | | 73 | WP-0450701-SI | WASHER 4.5×10×0.8 | 2 | |
| 3 | | WASHER | a | | 74 | NM-6040003-SI | NUT M4 | 1 | |
| 3 | | | | 1 | 75 | RE-0300000-KC | E-RING 3 | 1 | |
| 3 | | DAFFERENTIAL FEED ROCKER SAM. | 1 | | 76 | SM-6040600-SI | SCREW M4 L=6 | 2 | |
| - 1 | 4 8023950 | DIFFERENTIAL FEED ROCKER | (1 | | 7 | | | 1 | |
| | 5 8023901 | ! | (1 | | 71 | | FORKED CRANK PIN A | 1 | 01 |
| | 6 8024008 | PIN | (1) | | 7 | | FORKED CRANK PIN B | | 01 |
| | 7 8024107 | PEN COVER | (2 | 1 | 8 | İ | FORKED CRANK PIN C | 1 | 01 |
| | 8 SM-6030600-5 | | 1 0 | | 8 | | OIL SHIELD | | . • |
| : | 9 8120407 | SCREV | | | | 2 SM-6040600-S | | 1 : | , • |
| ' | 0 8024552 | DIFFERENTIAL FEED SHAFT SAM. | | | ı | 3 SS-5060310-SF | | | , • |
| - ' | 11 8024701 | BUSHING | | | ٦ | 11 00-1400114-01 | | | |
| L | 12 8024800 | DIFFERENTIAL FEED ARM | | 1 . | | | | | |

7. FEED MECHANISM COMPONENTS (2)

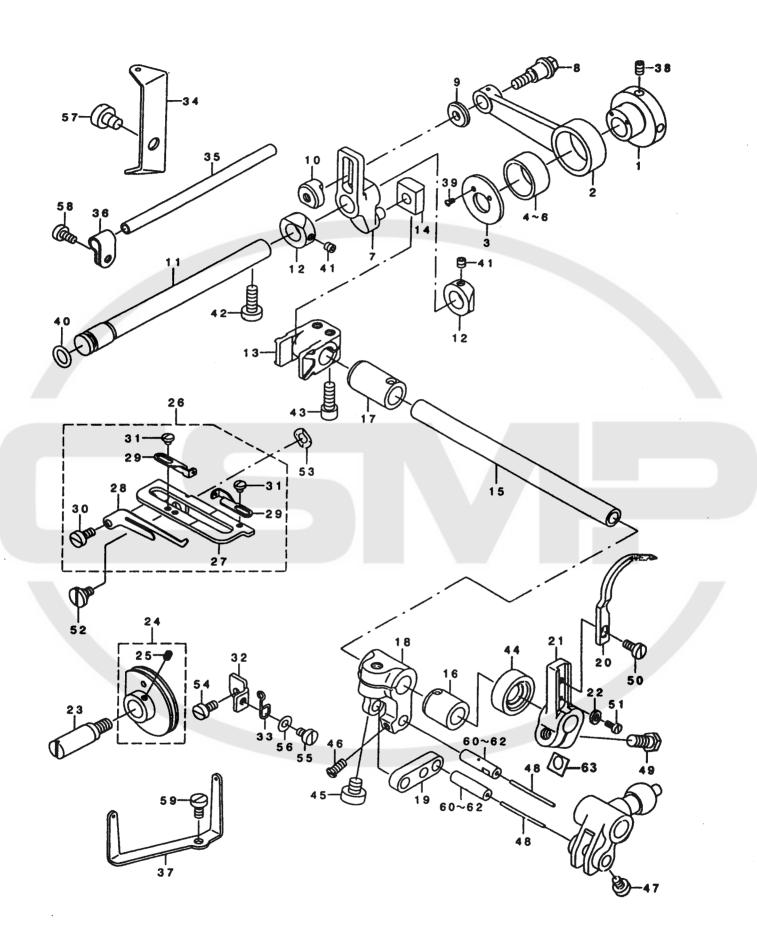


| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|---------------|-------------------------------|-----|------|
| | 8023356 | FEED BAR SAM. | 1 | • |
| 1 2 | 8023505 | DIFFERENTIAL FEED BAR | (1) | |
| 3 | 8023307 | MAIN FEED BAR | (1) | |
| 4 | 8027209 | MAIN FEED LINK COLLAR | 1 | |
| 5 | 8024214 | FEED BAR SHAFT | 1 | * |
| 6 | 8024305 | SLIDE BLOCK | 1 | |
| 7 | 8024404 | WASHER | 1 | |
| 8 | 8026003 | DUST GUARD RUBBER CASE | 1 | |
| 9 | 8026102 | DUST GUARD RUBBER | 1 | |
| 10 | 8026201 | PRESSER PLATE | 1 | |
| 11 | 8026300 | OIL SHIELD RUBBER | 1 | . |
| 12 | 8026417 | PRESSER PLATE | 1 | |
| 13 | 8026508 | FEED BAR SUPPORT | 2 | |
| 14 | 8026904 | DUST GUARD RUBBER CASE GASKET | 1 | |
| 15 | 8026805 | MAIN FEED DOG INSTALLING BASE | 1 | |
| 16 | SS-6090810-TP | SCREW 9/64-40 L=7.5 | 1 | |
| 17 | SS-6090810-TP | SCREW 9/64-40 L=7.5 | 1 | |
| 18 | 8116009 | SCREW | 1 | |
| 19 | SS-6090810-TP | SCREW 9/64-40 L=7.5 | 1 . | |
| 20 | SS-6121220-TP | SCREW 3/16-28 L=11.5 | 1 | |
| 21 | 8100102 | THRUST COLLAR | 1 | |
| 22 | SM-8040412-TP | SET SCREW M4 L=4 | 1 | |
| 23 | 8124102 | SCREW | 1 | , |
| 24 | SM-6051400-SP | SCREW | | ١. |
| 25 | SM-6041000-SP | SCREW M4 L=10 | 4 | |
| 26 | 8117520 | SCREW | 2 | |
| 27 | SM-4040755-SP | SCREW | 4 | |
| 28 | WP-0430800-SD | WASHER M4 | 2 | 01 |
| 29 | 8076008 | MAIN FEED DOG | 1 | 02 |
| 30 | 8076107 | MAIN FEED DOG | | 03 |
| 31 | 8076206 | MAIN FEED DOG | 1 | 01 |
| 32 | 8078004 | DIFFERENTIAL FEED DOG | 1 | 02 |
| 33 | 8078103 | DIFFERENTIAL FEED DOG | 1 | 03 |
| 34 | 8078202 | DIFFERENTIAL FEED DOG | 1 | 01 |
| 35 | 8080000 | AUXILIARY FEED DOG | | 01 |
| 36 | 8080109 | AUXILIARY FEED DOG | | 02 |
| 37 | 8080208 | AUXILIARY FEED DOG | | " |
| 38 | 8023604 | MAIN FEED LINK | 1 | 1 |

01... **OV - 804**

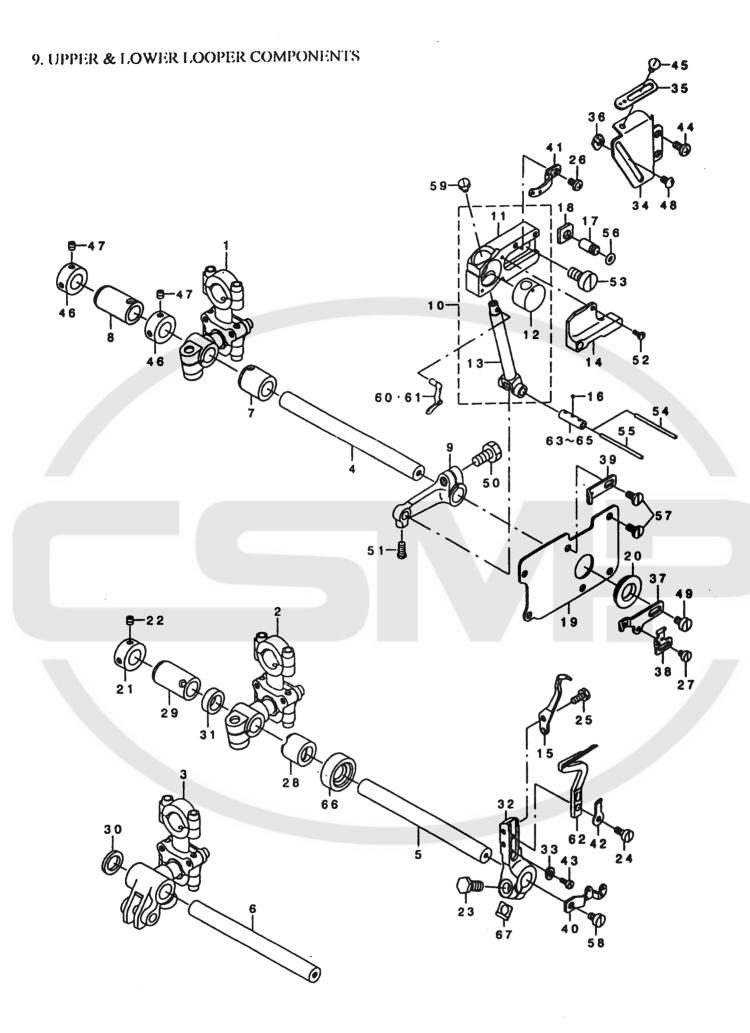
02.. **OV - 814**

03.. **OV-816**



| REF NO | PART NO | DESCRIPTION | Qty | NOTE | REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|-----------|----------------|--------------------------------|---|------|------------|---------------|-----------------------------|------|-------------|
| 1 | 8028009 | CHAIN LOOPER ECCENTRIC CAM | 1 | | 33 | 8031102 | THREAD GUIDE BASE STOPPER | 1 | |
| 2 | | CHAIN LOOPER ROD | 1 | | 34 | 8031201 | LOOPER THREAD CONDUIT GUIDE | 1 | |
| 3 | 8028207 | ECCENTRIC CAM COVER | ı | | 35 | 8031300 | LOOPER THREAD CONDUIT | 1 | |
| 4 | 8028306 | CHAIN LOOPER ROD BEARING A | ι | 01 | 36 | 8031409 | INSTALLING BASE | 1 | |
| 5 | 8028405 | CHAIN LOOPER ROD BEARING B | 1 | 01 | 37 | 8031508 | LOOPER THREAD GUIDE | 1 | |
| 6 | 8028504 | CHAIN LOOPER ROD BEARING C | 1 | 01 | 38 | SM-8040612-TP | SCREW M4 L=6 | 2 | |
| 7 | 8028603 | CHAIN LOOPER SHAFT SLIDE ARM | 1 | | 39 | 8116108 | SCREW | 2 | |
| 8 | 8028702 | HINGE SCREW | 1 | | 40 | 8103106 | RUBBER RING | 1 | |
| 9 | 8028801 | WASHER | 1 | | 41 | SM-8040412-TP | SET SCREW M4 L=4 | 2 | 1 |
| 10 | 8031607 | NUT | 1 | | 42 | SM-6051400-SP | SCREV | 1 | 1 1 |
| ,, | 8028900 | CHAIN LOOPER SHAFT | 1 | | 43 | SM-6051402-TP | SCREW M5X0.8 L=14 | 2 | |
| 12 | 8029007 | CHAIN LOOPER SHAFT THRUST | 2 | | 4 | 8105507 | OIL SEAL RING | 1 | |
| 13 | 8029106 | SLIDE BLOCK BRACKET | 1 | | 45 | SM-6061402-TP | SCREW M6 L=14 | 1 | |
| 14 | 8029205 | CHAIN LOOPER SLIDE BLOCK | 1 | | 46 | 8115100 | SCREW | L | |
| 15 | 8029304 | CHAIN LOOPER SHAFT | 1 | | 47 | SM-6040600-SP | SCREW M6 L=6 | 1 | |
| 16 | 8029403 | BUSHING . FRONT | 1 | | 48 | CQ-2000000-OO | OIL WICK | 0. 1 | |
| 17 | 8029502 | BUSHING . REAR | 1 | | 49 | 8125208 | SCREV | 1 | |
| 15 | 8029601 | CHAIN LOOPER SHAFT DRIVING ARM | 1 | | 50 | SS-6090810-SP | SCREW 9/64-40 L=7.5 | 1 | |
| 19 | 8029700 | DRIVING LINK | 1 | | 51 | SM-6850600-SP | SCREW . | 1 | |
| 20 | 8082600 | CHAIN LOOPER | 1 | | 52 | 8113907 | HINGE SCREW | 1 | |
| 21 | 8029908 | CHAIN LOOPER DRIVING ARM | 1 | Ш | 53 | WZ-0641510-KP | WAVED WASHER 6.4X11X0.3 | 1 | |
| 2 | | LOWER LOOPER STOPPER | 1 | | 54 | SM-6040800-SP | SCREW | 1 | |
| 2: | | LOOPER THREAD CAN SHAFT | 1 | | 55 | SM-6040600-SP | SCREW M4 L=6 | 1 | |
| 2 | 1 | LOOPER THREAD CAM SAM. | 1 | | 56 | WP-0430800-SD | WASHER M4 | 1 | |
| 2 | 1 | P SCREW M3 L=3 | (2) | | 57 | SM-6060800-SP | SCREW M6 L=8 | 1 | |
| 2 | | THREAD GUIDE SAM. | 1 | | 58 | SM-6040800-SP | SCREV | 1 | |
| 1 2 | | THREAD GUIDE BASE SAM. | (1) | | 59 | SM-6040800-SP | SCREW | 1 | |
| 2 | | LOOPER THREAD CAM CLAW | (1) | , | 60 | 8031706 | DRIVING LINK PIN A | 2 | 01 |
| - 1 | 9 8030906 | THREAD GUIDE | (2) | | 61 | 8031805 | DRIVING LINK PIN B | 2 | 01 |
| - 1 | 0 SM-6040800-S | | . (1) | , | 62 | 8031904 | DRIVING LINK PIN C | 2 | 01 |
| | 1 8117502 | SCREW | (2 | , | 63 | 8035301 | WASHER | 1 | <u> • </u> |
| | | THREAD GUIDE BASE STOPPER I | | | | | | | |
| نا | 2 8031003 | THREAD OUTDE BROD STOTION | نــــــــــــــــــــــــــــــــــــــ | | | | | | |

01....FOR SELECTIVE PART



| REF | | DESCRIPTION | Qty | NO | TE | REF | PART NO. | DESCRIPTION | Qty | NOTE |
|-----|------------|--------------------------------|-----|---------|----------|-----------|---------------|-----------------------------|------|------|
| NO. | PART NO. | | 1 | | \dashv | NO. 35 | 8040303 | THREAD GUIDE RIGHT | 1 | |
| 1 | | UPPER LOOPER BALL HOLDER SAM. | 1 | | 01 | 36 | 8040808 | THREAD GUIDE | 1 | |
| 2 | 1,00001111 | BALL HOLDER A SAM. | 1 | ŀ | 02 | 37 | 8040402 | THREAD TAKE-UP, RIGHT | 1 | |
| 3 | | BALL HOLDER B SAM. | 1 | | | 38 | 8040709 | LOWER LOOPER THREAD TAKE-UP | 1 | |
| 4 | 8034205 | LOOPER SHAFT | - | ۱, | | 39 | 8036507 | THREAD GUIDE, MIDDLE | ı | |
| 5 | 8033306 | UPPER LOOPER SHAFT | | | 2 | " | 8040907 | LOWER THREAD GUIDE . LEFT | ı | |
| 6 | 8035103 | LOWER LOOPER SHAFT | 1 | ľ | ' | 40 | | THREAD GUIDE . UPPER | 1 | |
| 7 | 8029403 | BUSHING, FRONT | 1 | | | 41 | 8040501 | THREAD GUIDE . LEFT | | |
| 8 | 8029502 | BUSHING . REAR | 1 | | | 42 | 8036804 | | | |
| 9 | 8033405 | LOOPER HOLDER | ı | | | 43 | SM-6850600-SP | SCREW | 2 | |
| 10 | 8033553 | LOOPER GUIDE SUPPORT SAM. | ì | | | 44 | SM-4040855-SP | SCREW | | |
| 11 | 8033504 | UPPER LOOPER GUIDE SUPPORT | (1) | | | 45 | SS-3090610-SP | SCREW 9/64-40 L=6 | 2 | |
| 12 | 8073108 | UPPER LOOPER GUIDE | (1) | | | 46 | 8100201 | THRUST COLLAR | 1 | |
| 13 | 8033702 | UPPER LOOPER HOLDER | (1) | | | 47 | SM-8040412-TP | SET SCREW M4 L-4 | | |
| 14 | 8033801 | UPPER LOOPER GUIDE COVER | 1 | | | 48 | SS-3090610-SP | SCREW 9/64-40 L=6 | | |
| 15 | 8084002 | TRAVELING NEEDLE GUARD | 1 | | | 49 | SM-6040600-SP | SCREW M4 L=6 | 1 | |
| 16 | 8034403 | OIL WICK STOP BALL | 1 | | | 50 | SM-9061250-TP | SCREW M6 L=12 | 1 | |
| 17 | 8034502 | PIN | 1 | | | 51 | 8115100 | SCREW | 1 | |
| 18 | 8034601 | GAUGE | ı | | | 52 | SS-7060610-SP | SCREW 3/32-56 L=5.5 | 2 | |
| 19 | 8034700 | OIL SHIELD | 1 | | | 53 | SM-6061200-SP | SCREW | 2 | |
| 20 | 8034809 | UPPER LOOPER SHAFT RUBBER RING | 1 | | | 54 | CQ-2000000-OO | OIL WICK | 0.04 | |
| 21 | 8100201 | THRUST COLLAR | 1 | | • | 55 | CQ-2020000-00 | OIL WICK | 0.04 | |
| 22 | | SET SCREW M4 L=4 | 2 | | • | 56 | 8103007 | RUBBER RING | 1 | |
| 23 | 1 | SCREW | 1 | | | 57 | 8115209 | SCREW | 6 | |
| 24 | | SCREW 9/64-40 L=7.5 | 1 | | | 58 | SM-6040600-SP | SCREW M4 L=6 | 1 | |
| | | SCREW | 2 | | | 59 | SS-9090410-TP | SCREW | 1 | |
| 25 | | | ۱ ا | | | 60 | 8081107 | UPPER LOOPER | 1 | 03 |
| 26 | | | | | | 61 | 8081008 | UPPER LOOPER | 1 | 04 |
| 27 | | 1 | Ι΄. | | • | 62 | | LOWER LOOPER | 1 | |
| 28 | 8034908 | BUSHING , FRONT | | | | 63 | 1 | UPPER LOOPER HOLDER PIN A | 1 | 0.5 |
| 29 | 8029502 | BUSHING . REAR | ' | | ^ 2 | | | UPPER LOOPER HOLDER PIN B | 1, | 0.5 |
| 30 | 8035707 | SPACER | 1 | | 02 | 64 | 1 | UPPER LOOPER HOLDER PIN C | | |
| 3 | 8035202 | SPACER | 1 | | 0 1 | 65 | | | | |
| 3: | 2 8035806 | LOWER LOOPER ARM | 1 | | | 66 | | OIL SEAL RING | ' | Ι. |
| 3 | 3 8030005 | LOWER LOOPER STOPPER | 1 | | | 67 | 8035301 | WASHER | 1 | |
| 3 | 4 8040204 | LOOPER THREAD TAKE-UP COVER | 1 | \perp | | | | | • | |

ot OV - 804 / OV - 814

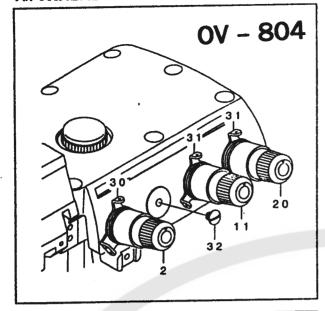
02 OV - 816

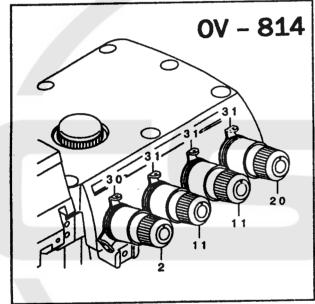
03 OV - 804 / OV - 816

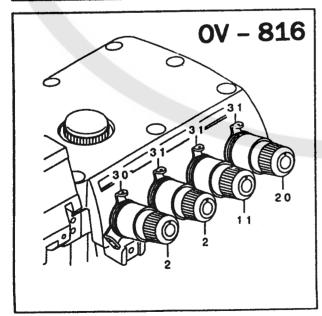
04 OV - 814

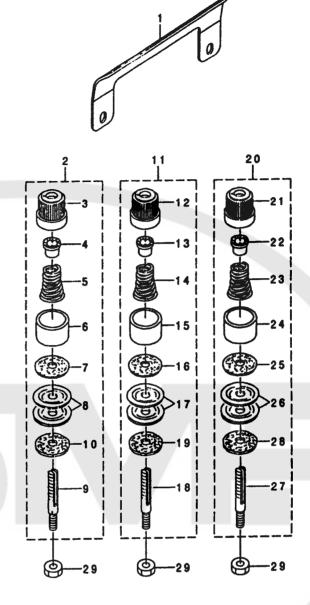
05 FOR SELECTIVE PART

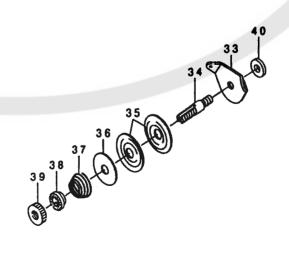
10. THREAD TENSION COMPONENTS









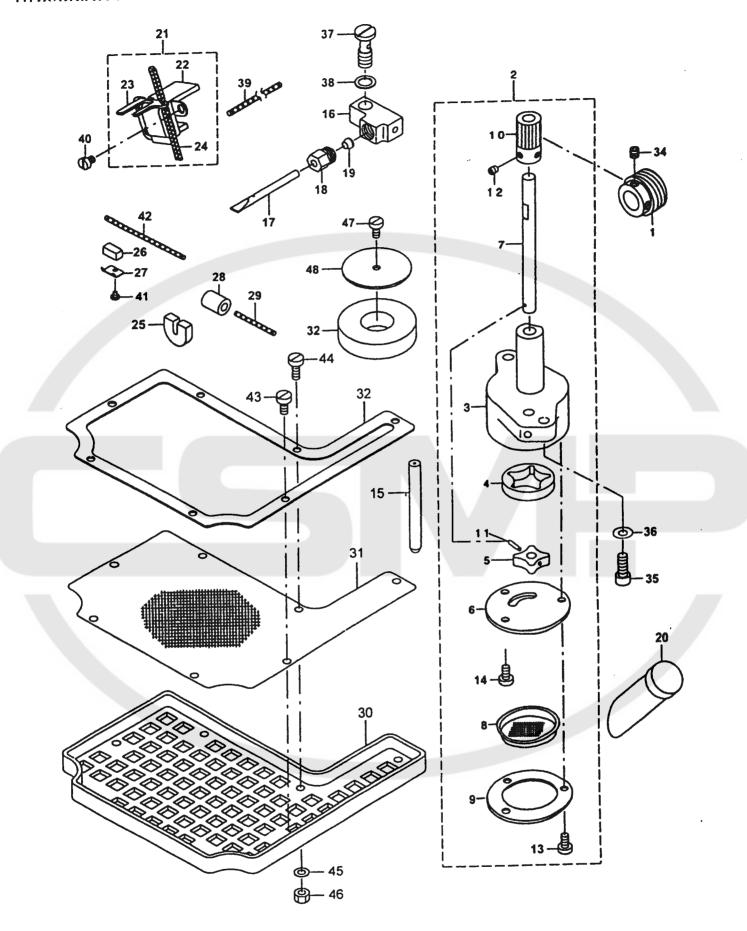


| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|---------------------|------------------------------|-----|------|
| 1 | 8038008 | CENTER THREAD GUIDE | 1 | |
| 2 | 8038156 | TENSION SPRING SAM., RED | 1 | |
| 3 | 8285003 | THREAD TENSION KNOB, RED | (1) | |
| 4 | 8285508 | TENSION SPRING BUSHING | (1) | |
| 5 | 8284709 | TENSION SPRING, RED | (1) | |
| 6 | 828540 9 | TENSION DISK PRESSER | (1) | |
| 7 | 8285607 | THREAD TENSION SPRING FELT | (1) | |
| 8 | 8285706 | THREAD TENSION DISK | (2) | |
| 9 | 8239402 | TENSION POST | (1) | |
| 10 | 8285805 | THREAD TENSION RUBBER | (1) | |
| 11 | 8038255 | TENSION SPRING SAM. , YELLOW | 1 | |
| 12 | 8285102 | THREAD TENSION KNOB, YELLOW | (1) | |
| 13 | 8285508 | TENSION SPRING BUSHING | (1) | |
| 14 | 8284808 | TENSION SPRING, YELLOW | (1) | |
| 15 | 8285409 | TENSION DISK PRESSER | (1) | |
| 16 | 8285607 | THREAD TENSION SPRING FELT | (1) | |
| 17 | 8285706 | THREAD TENSION DISK | (2) | |
| 18 | 8239402 | TENSION POST | (1) | |
| 19 | 8285805 | THREAD TENSION RUBBER | (1) | |
| 20 | 8038354 | TENSION SPRING SAM. , BLUE | 1 | |
| 21 | 8285201 | THREAD TENSION KNOB, BLUE | (1) | |
| 22 | 8285508 | TENSION SPRING BUSHING | (1) | |
| 23 | 8284907 | TENSION SPRING, BLUE | (1) | |
| 24 | 8285409 | TENSION DISK PRESSER | (1) | |
| 25 | 8285607 | THREAD TENSION SPRING FELT | (1) | |
| 26 | 8285706 | THREAD TENSION DISK | (2) | |
| 27 | 8239402 | TENSION POST | (1) | |
| 28 | 8285805 | THREAD TENSION RUBBER | (1) | |
| 29 | 8108006 | NUT | 1 | |
| 30 | 8039501 | THREAD GUIDE | 1 | |
| 31 | 8039600 | THREAD GUIDE | 1 | |
| 32 | 8119300 | SCREW | 1 | 02 |
| 33 | 8039709 | THREAD GUIDE | 1 | 01 |
| 34 | 8039808 | TENSION POST | 1 | 01 |
| 35 | 8039303 | THREAD TENSION DISK | 2 | 01 |
| 36 | 8039204 | THREAD TENSION FELT | 1 | 01 |
| 37 | 8039907 | TENSION SPRING | 1 | 01 |
| 38 | 8038701 | ROTATING STOPPER | 1 | 01 |
| 39 | 8040004 | NUT | 1 | 01 |
| 40 | 8110705 | THREAD TENSION COLLAR | 1 | 01 |

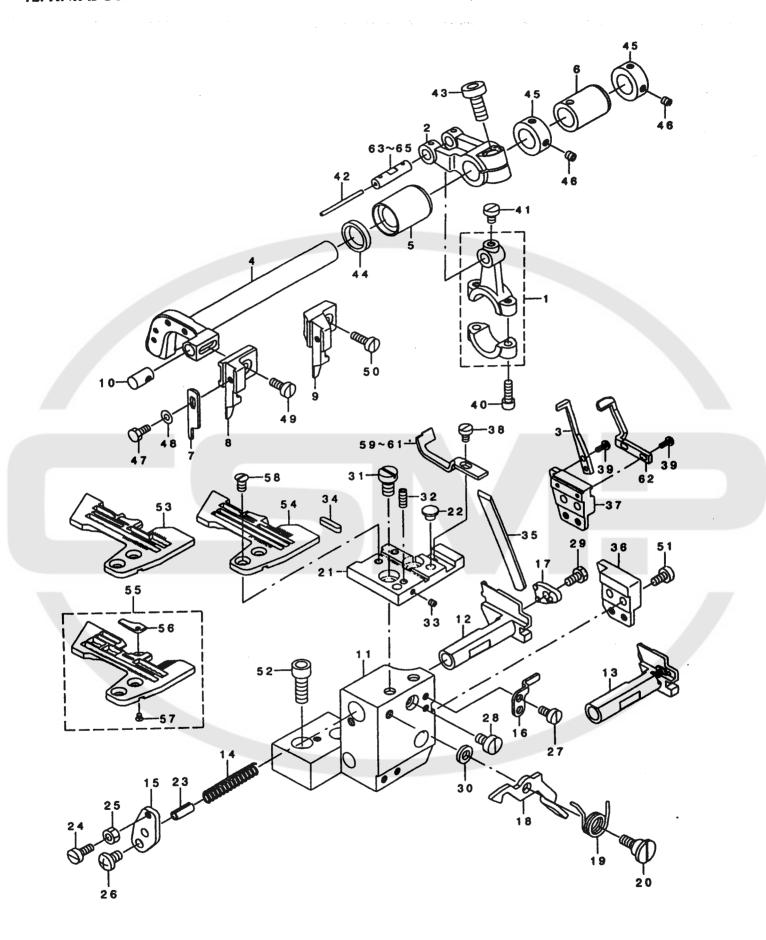
01.... **OV - 816**

02.... **OV - 804**

11. LUBRIATION MECHANISM COMPONENTS



| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|--------------------------|------------------------------------|--------|----------|
| 1 | 8041507 | WORM | 1 | |
| 2 | 8041663 | OIL PUMP COMPL. | 1 | |
| 3 | 8041665 | OIL PUMP SAM. | (1) | |
| 4 | 8041804 | OIL PUMP GEAR OUTER RING | (1) | |
| 5 | 8041903 | OIL PUMP GEAR INNER RING | (1) | |
| 6 | 8042000 | OIL PUMP COVER | (1) | |
| 7 | 8042109 | OIL PUMP SHAFT | (1) | |
| 8 | 8042307 | OIL PUMP NET | (1) | |
| 9 | 8042406 | OIL PUMP NET PRESSER | (1) | |
| 10 | 8042505 | WORM GEAR | (1) | |
| 11 | 8101001 | PIN | (1) | |
| 12 | SM-8040412-TP | SET SCREW M4 L=4 | (2) | |
| 13 | SM-6040800-SP | SCREW | (3) | |
| 14 | SM-6040800-SP | SCREW | (1) | |
| 15 | 804260 4 | OILING EXIT PIPE | 1 | |
| 16 | 8042752 | OILING EXIT SUPPORT COMPL. | 1 | |
| 17 | 8042802 | OILING EXIT | 1 | |
| 18 | 8042901 | OILING EXIT JOINT A | 1 | |
| 19 | 8043008 | OILING EXIT JOINT B | 1 | |
| 20 | 8043107 | OIL GAUGE | 1 | |
| 21 | 8043255 | OIL FELT SAM. | 1 | |
| 22 | 8043206 | OIL FELT | (1) | |
| 23 | 8043305 | OIL FELT PRESSER | (1) | |
| 24 | CQ-2520000-OO | OIL WICK | (0.11) | |
| 25 | 8043404 | RETURNING OIL FILTER | 1 | |
| 26 | 8043602 | OIL FELT | 1 | |
| 27 | 8043701 | UPPER LOOPIER OIL FELT | 1 | |
| 28 | 8043800 | OIL SUPPLY BUSH | 1 | |
| | CQ-2000000-OO | OIL WICK | 0. 03 | |
| 29 | | OIL WICK OIL RESERVOIR FILTER BASE | 1 | • |
| 30 | 8044014 | OIL RESERVOIR FILTER | 1 | • / |
| 31 | 8044113 | FILTER PRESSER PLATE | 1 1 | |
| 32 | 8044212 | | 1 | |
| 33 | 8044303 | MAGNET | 2 | |
| 34 | SM-8040412-TP | SCREW M5 L=5 | 2 | |
| 35 | SM-6051402-TP | SCREW M5X0.8 L=14 | 2 | |
| 36 | WP-0531000-SD | WASHER M5 | | |
| 37 | 8113501 | SCREW | 1 | |
| 38 | 8103601 | GASKET | 1 | |
| 39 | CQ-3030000-OO | OIL WICK | 0.12 | |
| 40 | 8118104 | SCREW | 3 | |
| 41 | SS-7060310-SP | SCREW 3/32-56 L=3 | 1 | |
| 42 | CQ-2520000-OO | OIL WICK | 0.06 | |
| 43 | SM-6040800-SP | SCREW | 2 | |
| 44 | SM-6041000-SP | SCREW M4 L=10 | 5 | |
| 45 | 8110101 | WASHER | 5 | |
| 46 | NM-6040003-SD | NUT M4 | 5 | |
| 47 | SM-6040800-SP | SCREW | 1 | |
| 48 | 8110507 | WASHER | 11 | <u> </u> |



| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE | REF NO | PART NO. | DESCRIPTION | Qty | NOTE |
|------------|---------------|---------------------------|-----|------|-----------|---------------------|-------------------------------|-------|------|
| 1 | 8045003 | UPPER KNIFE ROD | 1 | | 34 | 8047405 | THROAT PLATE POST TIONING KEY | 1 | |
| 2 | 8045102 | UPPER KNIFE FORK ARM | 1 | | 35 | 8047504 | LOWER KNIFE | 1 | |
| 3 | 8084705 | CHAIN LOOPER NEEDLE GUARD | 1 | 02 | 36 | 8046704 | NEEDLE GUARD HOLDER | 1 | 01 |
| 4 | 8045201 | KNIFE DRIVING ARM SHAFT | 1 | | 37 | 8046803 | NEEDLE GUARD HOLDER | 1 | 02 |
| 5 | 8045300 | BUSHING , FRONT | 1 | | 38 | SS-3090610-SP | SCREW 9/64-40 L=6 | 1 | • |
| 6 | 8013001 | BUSHING , REAR | 1 | | 39 | 8116009 | SCREW | 4 | 02 |
| 7 | 8045508 | KNIFE | 1 | | 40 | SM-6041202-TP | SCREW M4X0.7 L=12 | 2 | |
| 8 | 8045607 | UPPER KNIFE SUPPORT | 1 | 01 | 41 | SM-6040600-SP | SCREW M4 L=6 | 1 | |
| 9 | 8045706 | UPPER KNIFE SUPPORT | 1 | 02 | 42 | CQ-2000000-OO | OIL WICK | 0. 05 | |
| 10 | 8045805 | UPPER KNIFE GUIDE SHAFT | 1 | | 43 | SM-6061602-TP | SCREW M6 L=16 | 1 | |
| 11 | 8045904 | LOWER KNIFE BRACKET | 1 | | 44 | 8105606 | OIL SEAL | 1 | |
| 12 | 8046001 | LOWER KNIFE SLIDE STUD | 1 | 01 | 45 | 8100409 | THRUST COLLAR | 2 | |
| 13 | 8046100 | LOWER KNIFE SLIDE STUD | 1 | 02 | 46 | SM-8040412-TP | SET SCREW M4 L=4 | 4 | |
| 14 | 8046209 | SPRING | 1 | | 47 | SS-9090813-TP | SCREW 9/64-40 L=8 | 1 | |
| 15 | 8046308 | STOPPER PLATE | 1 | | 48 | WP-0370316-SD | WASHER 3. 7X8X0. 3 | 1 | |
| 16 | 8046407 | ROTATING STOPPER | 1 | | 49 | SM-6041000-SP | SCREW M4 L=10 | 1 | 01 |
| 17 | 8046605 | LOWER KNIFE HOLDER | 1 | | 50 | SM-6041200-SP | SCREW M4 L=12 | 1 | 02 |
| 18 | 8046902 | LEVER | 1 | | 51 | SM-6040800-SP | SCREW | 2 | |
| 19 | 8047009 | SPRING | 1 | | 52 | SM-6061802-TP | SCREW M6 L=18 | 2 | |
| 20 | 8047108 | HINGE SCREW | 1 | | 53 | R4200-LOE-EOO | THROAT PLATE | 1 | 03 |
| 21 | 8047207 | THROAT PLATE BASE | 1 | | 54 | R4305-LOE-EOO | THROAT PLATE | 1 | 04 |
| 22 | 8047306 | RUBBER PLUG A | 2 | | 55 | R4508-LOE-GOO | THROAT PLATE | 1 | 02 |
| 23 | 8101605 | GUIDE PIN | 1 | | 56 | 8085009 | THROAT PLATE CLAW | (1) | 02 |
| 24 | SM-6041000-SP | SCREW M4 L=10 | 1 | | 57 | SS-1060210-TP | SCREW 3/32-56 L=2.2 | (1) | 02 |
| 25 | NM-6040003-SD | NUT 144 | 1 | | 58 | 8116504 | SCREW | 2 | |
| 26 | SM-4050855-SP | SCREW | 1 | | 59 | 8084101 | NEEDLE GUARD | 1 | 03 |
| 27 | SM-6040800-SP | SCREW | 2 | | 60 | 8084200 | NEEDLE GUARD . | 1 | 04 |
| 28 | SM-6050800-SP | SCREW M5 L=8 | 1 | | 61 | 8084408 | CHAIN LOOPER NEEDLE GUARD | 1 | 02 |
| 29 | SM-9040800-SP | SCREW | 1 | | 62 | 8084507 | CHAIN LOOPER NEEDLE GUARD | 1 | 02 |
| 30 | 8110804 | WASHER | 1 | | 63 | 8016202 | CRANK PIN A | 1 | 0.5 |
| 31 | 8120308 | SCREW | 2 | | 64 | 8016400 | CRANK PIN B | 1 | 0.5 |
| 32 | SM-8041012-TP | SCREW M4 L=10 | 1 | | 65 | 801650 9 | CRANK PIN C | 1 | 05 |
| 33 | SM-8030312-TP | SCREW M3 L=3 | 1 | | | | | | |

NOTE:

01.. **OV-804 / OV-814**

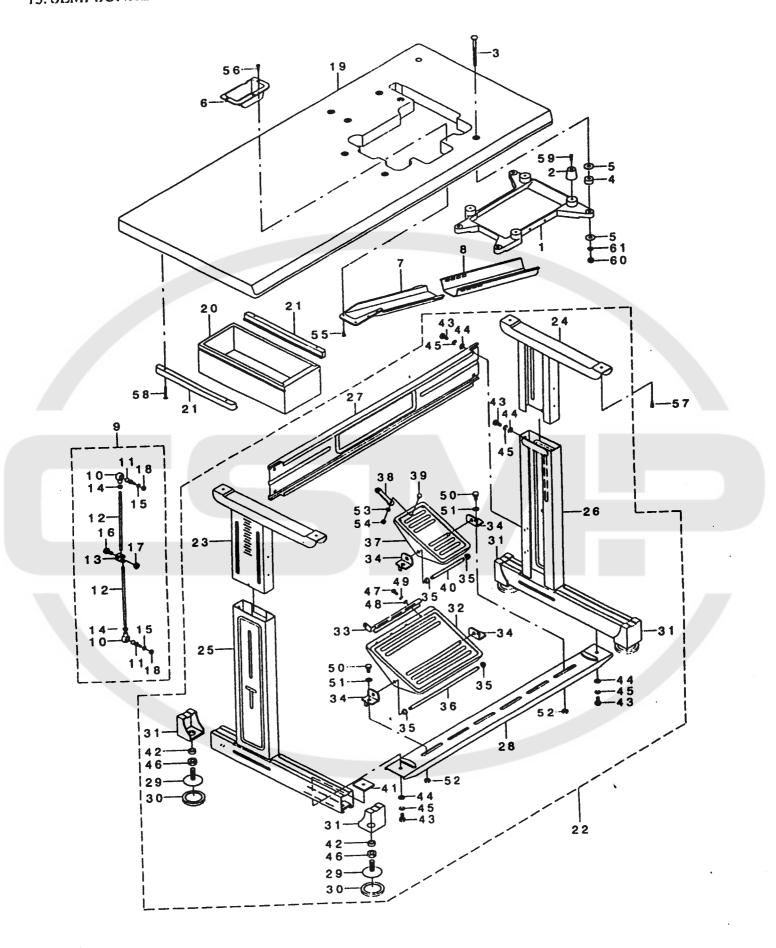
02 OV-816

03... **OV - 804**

04... **OV - 814**

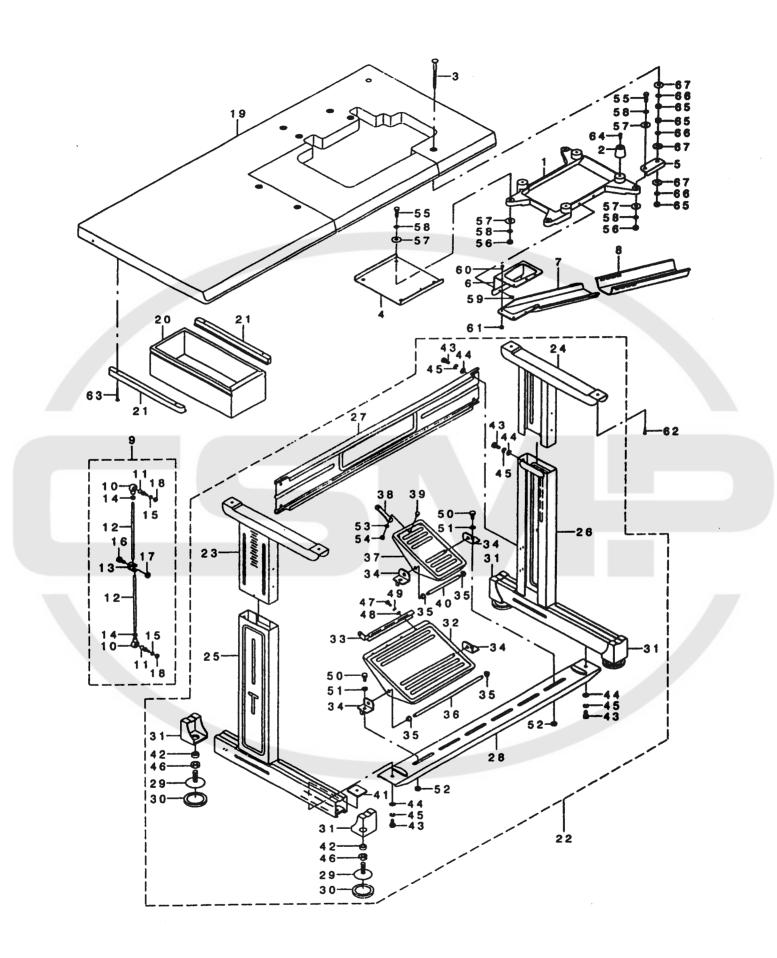
05....FOR SELECTIVE PART

13. SEMI-SUNKEN TYPE TABLE COMPONENTS



| · | | | | | | | | | | | i |
|---|------------|----------|---------------------------|------|------|------------|----------|-----------------------|------|------|---|
| | REF NO. | PART NO. | DESCRIPTION | Qty | NOTE | REF NO. | PART NO. | DESCRIPTION | Qty | NOTE | |
| | | 8048007 | FRAME SUPPORT PLATE SAM. | 1 | | 32 | 8051852 | PEDAL COMPL. | (1) | | 1 |
| | 2 | 8048106 | RUBBER CUSHION | 4 | | 33 | 8052009 | PEDAL ADJUSTING PLATE | (1) | | |
| | 3 | 8048205 | BOLT A | 4 | | 34 | 8052108 | PEDAL SUPPORT | (4) | | |
| | 4 | 8047900 | BOLT SPACER | 4 | | 35 | 8052207 | BUSHING | (4) | | |
| | 5 | 8111307 | WASHER | 8 | | 36 | 8052306 | PEDAL SHAFT | (1) | | |
| | 6 | 8049401 | CLOTH WASTE CHUTE INLET | 1 | | 37 | 8052405 | PRESSER LIFTING PEDAL | (1) | | |
| | 7 | 8048502 | CLOTH WASTE CHUTE (UPPER) | 1 | | 38 | 8052504 | CHAIN HOOK | (1) | | |
| | 8 | 8048601 | CLOTH WASTE CHUTE(LOWER) | 1 | | 39 | 8052603 | SCREW | (1) | | |
| | 9 | 8048759 | CONNECTING ROD JOINT SAM. | 1 | 01 | 40 | 8052702 | PEDAL SHAFT | (1) | | |
| | 10 | 8048700 | CONNECTING ROD JOINT | (2) | | 41 | 8052801 | NUT | (2) | | |
| | 11 | 8048809 | CONNECTING ROD JOINT A | (2) | | 42 | 8052900 | COLLAR | (4) | | |
| | 12 | 8048908 | CONNECTING ROD | (2) | | 43 | 8125307 | BOLT | (16) | | |
| | 13 | 8049005 | CONNECTING BASE | (1) | | 44 | 8111109 | WASHER | (16) | | |
| 1 | 14 | 8108808 | NUT | (2) | | 45 | 8112206 | SPRING WASHER | (16) | | l |
| | 15 | 8112107 | SPRING WASHER | (2) | } | 46 | 8109301 | NUT | (4) | | ١ |
| | 16 | 8125307 | BOLT | (1) | | 47 | 8124706 | SCREW | (2) | | Ì |
| | 17 | 8109004 | NUT | (1) | | 48 | 8110903 | WASHER | (2) | | ١ |
| ١ | 18 | 8108008 | NUT | (2) | | 49 | 8112107 | SPRING WASHER | (2) | | l |
| | 19 | 8049104 | TABLE SAM. (SEMI-SUNKEN) | 1 | 01 | 50 | 8125307 | BOLT | (4) | · | |
| | 20 | 8049203 | DRAWER | 1 | 01 | 51 | 8111109 | WASHER | (8) | | |
| | 21 | 8049302 | DRAWER SUPPORT | 2 | 01 | 52 | 8109004 | NUT | (4) | | |
| | 22 | 8050052 | T-STAND COMPL. | 1 | 01 | 53 | 8112107 | SPRING WASHER | (1) | | |
| | 23 | 8050151 | UPPER STAND COMPL. (LEFT) | (1) | | 54 | 8108808 | NUT | (1) | | |
| | 24 | 8050250 | UPPER STAND COMPL. (RIGHT | (1) | | 55 | 8126107 | SCREW | 4 | | |
| | 25 | 805055 | LOWER STAND COMPL. (LEFT) | (1) | | 56 | 8126602 | SCREW | 3 | • | |
| | 26 | 8050656 | LOWER STAND COMPL. (RIGHT | (1) | | 57 | 8126206 | WOOD SCREW | 4 | 01 | |
| | 27 | 805120 | SIDE STRUT | (1). | | 58 | 8126503 | SCREW | 4 | 01 | |
| | 28 | 805130 | B LOWER STRUT | (1) | | 59 | 8113709 | SCREW | 4 | | |
| | 29 | 805145 | 6 ADJUSTING SCREW COMPL. | (4) | | 60 | 8109004 | NUT | 4 | | |
| | 30 | 805160 | 5 BASE CAP | (4) | | 61 | 8112206 | SPRING WASHER | 4 | | |
| | 31 | 805170 | 4 STAND BASE CAP | (4) | | | | | | | |
| · | | | | | | | | | | | |

NOTE: 01....EXCLUDED WHEN DELIVERING HEAD ONLY

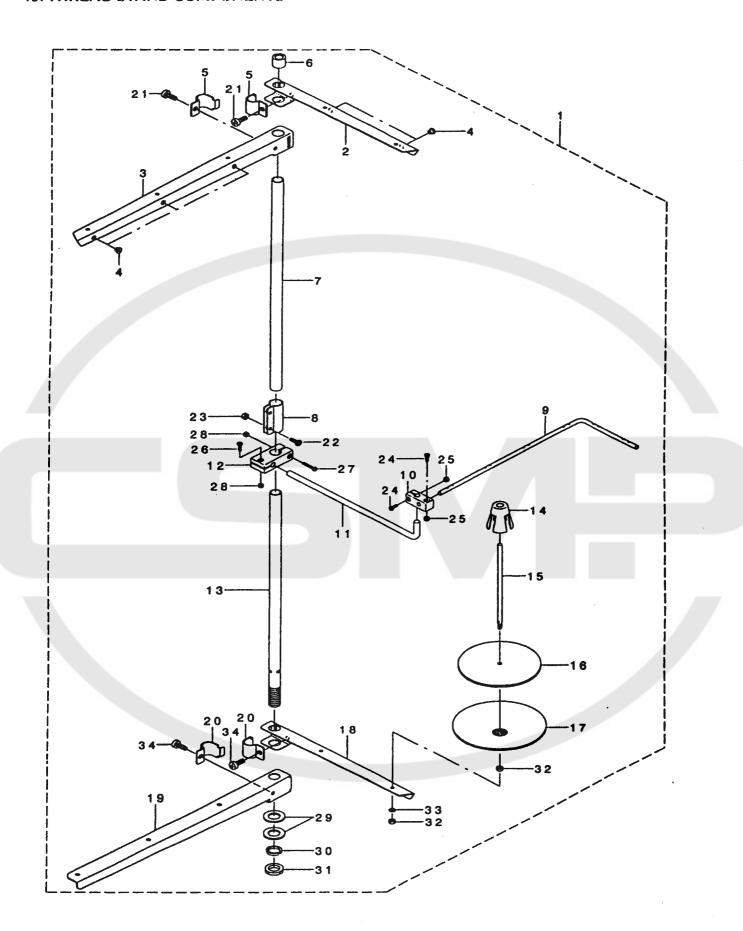


| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE | REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|------------|----------|-------------------------------|-----|------|------------|---------------|-----------------------|------|------|
| | 8048007 | FRAME SUPPORT PLATE SAM. | 1 | | 35 | 8052207 | BUSHING | (4) | |
| 2 | 8048106 | RUBBER CUSHION | 4 | | 36 | 8052306 | PEDAL SHAFT | (1) | |
| 3 | 8053205 | BOLT B | 4 | | 37 | 8052405 | PRESSER LIFTING PEDAL | (1) | |
| 4 | 8053304 | AUXILIART PLATE A | 1 | | 38 | 8052504 | CHAIN HOOK | (1) | |
| 5 | 8053403 | AUXILIART PLATE B | 1 | | 39 | 8052603 | SCREW | (1) | |
| 6 | 8053502 | SUPPORT PLATE | 1 | | 40 | 8052702 | PEDAL SHAFT | (1) | |
| 7 | 8048502 | CLOTH WASTE CHUTE (UPPER) | 1 | | 41 | 8052801 | NUT | (2) | |
| 8 | 8048601 | CLOTH WASTE CHUTE (LOWER) | 1 | | 42 | 8052900 | COLLAR | (4) | |
| 9 | 8048759 | CONNECTING ROD JOINT SAM. | 1 | 01 | 43 | 8125307 | BOLT | (16) | |
| 10 | 8048700 | CONNECTING ROD JOINT | (2) | | 41 | 8111109 | WASHER | (16) | |
| 11 | 8048809 | CONNECTING ROD JOINT A | (2) | | 45 | 8112206 | SPRING WASHER | (16) | |
| 12 | 8048908 | CONNECTING ROD | (2) | | 46 | 8109301 | NUT | (4) | |
| 13 | 8049005 | CONNECTING BASE | (1) | | 47 | 8124706 | SCREW | (2) | |
| 14 | 8108808 | NUT | (2) | | 48 | 8110903 | WASHER | (2) | |
| 15 | 8112107 | SPRING WASHER | (2) | | 49 | 8112107 | SPRING WASHER | (2) | |
| 16 | 8125307 | BOLT | (1) | | 50 | 8125307 | BOLT | (4) | |
| 17 | 8109004 | NUT | (1) | | 51 | 8111109 | WASHER | (8) | |
| 18 | 8108808 | NUT | (2) | | 52 | 8109004 | NUT | (4) | |
| 19 | 8053650 | TABLE SAM., FULLY-SUNKEN TYPE | 1, | 01 | 53 | 8112107 | SPRING WASHER | (1) | |
| 20 | 8049203 | DRAWER | 1 | 01 | 54 | 8108808 | NUT | (1) | |
| 21 | 8049302 | DRAWER SUPPORT | 2 | 01 | 55 | 8125406 | BOLT | 3 | |
| 22 | 8050052 | T-STAND COMPL. | 1 | 01 | 56 | 8109004 | NUT | 3 | |
| 23 | 8050151 | UPPER STAND COMPL. (LEFT) | (1) | | 57 | 8111307 | WASHER | 6 | |
| 21 | 8050250 | UPPER STAND COMPL. (RIGHT) | (1) | | 58 | 8112206 | SPRING WASHER | 6 | |
| 25 | 8050557 | LOWER STAND COMPL. (LEFT) | (1) | | 59 | SM-4050855-SP | SCREW | 2 | |
| 26 | 8050656 | LOWER STAND COMPL. (RIGHT) | (1) | | 60 | SM-6041200-SP | SCREW | 4 | |
| 27 | 8051209 | SIDE STRUT | (1) | | 61 | 8108303 | NUT | 4 | |
| 28 | 8051308 | LOWER STRUT | (1) | | 62 | 81,26206 | WOOD SCREW | 4 | 01 |
| 29 | 8051456 | ADJUSTING SCREW COMPL. | (4) | | 63 | 8126503 | SCREW | 4 | 01 |
| 30 | 8051605 | BASE CAP | (4) | | 64 | 8113709 | SCREW | 4 | |
| 31 | 8051704 | STAND BASE CAP | (4) | | 65 | 8109004 | NUT | 12 | |
| 32 | 8051852 | PEDAL COMPL. | (1) | | 66 | 8112206 | SPRING WASHER | 12 | |
| 33 | 8052009 | PEDAL ADJUSTING PLATE | (1) | | 67 | 8111307 | WASHER | 12 | |
| 34 | 8052108 | PEDAL SUPPORT | (4) | | | | | | |

01....EXCLUDED WHEN DELIVERING HEAD ONLY

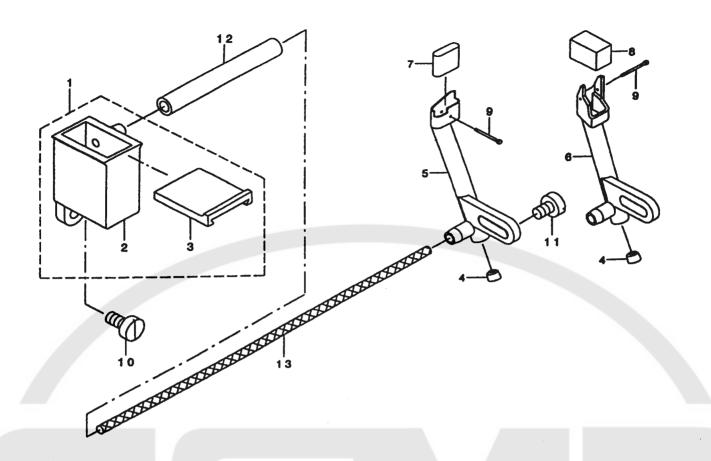
NOTE:

15. THREAD STAND COMPONENTS



| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|---------------|-----------------------------|-----|------|
| 1 | 8060150 | THREAD STANDING DEVICE SAM. | 1 | |
| 2 | 8330507 | SPOOL REST ARM | (1) | |
| 3 | 8061703 | SPOOL REST ARM, LONG | (1) | |
| 4 | 8331208 | THREAD GUIDE | (5) | |
| 5 | 8330705 | THREAD GUIDE ARM JOINT | (2) | |
| 6 | 8331406 | SPOOL REST ROD RUBBER CAP | (1) | |
| 7 | 8330408 | SPOOL REST ROD, UPPER | (1) | |
| 8 | 8331307 | SPOOL REST ROD JOINT | (1) | |
| 9 | 8060705 | SPOOL REST ROD, LOWER | (1) | |
| 10 | 8060804 | LOWER SPOOL REST ROD BASE | (1) | |
| 11 | 8060903 | THREAD GUIDE ARM | (1) | |
| 12 | 8061000 | THREAD GUIDE ARM BASE | (1) | |
| 13 | 8330309 | SPOOL REST ROD, LOWER | (1) | |
| 14 | 8331109 | SPOOL RETAINER | (5) | |
| 15 | 8331000 | SPOOL PIN | (5) | |
| 16 | 8330903 | SPOOL REST CUSHION | (5) | |
| 17 | 8330804 | SPOOL REST | (5) | |
| 18 | 8330507 | SPOOL REST ARM | (1) | |
| 19 | 8061703 | SPOOL REST ARM, LONG | (1) | |
| 20 | 8330705 | THREAD GUIDE ARM JOINT | (2) | |
| 21 | SM-6061610-SC | SCREW M6 L=16 | (2) | * |
| 22 | SM-4051405-SE | SCREW M5 L=14 | (2) | |
| 23 | NM-6050001-SE | NUT M5 | (2) | |
| 24 | 8118302 | SCREW | (2) | |
| 25 | 8108303 | NUT | (2) | |
| 26 | 8118401 | SCREW A | (1) | |
| 27 | 8118500 | SCREW B | (1) | |
| 28 | 8108303 | NUT | (2) | |
| 29 | WP-1702600-SO | WASHER 17X30X2.6 | (2) | |
| 30 | WS-1643202-KR | SPRING WASHER | (1) | |
| 31 | NM-6160511-SE | NUT M16X1.5 | (1) | |
| 32 | NM-6050001-SE | NUT M5 | (5) | |
| 33 | WS-0510002-KN | SPRING WASHER | (5) | |
| 34 | SM-6061610-SC | SCREW M6 L=16 | (2) | |

16. NEEDLE COOLER COMPONENTS



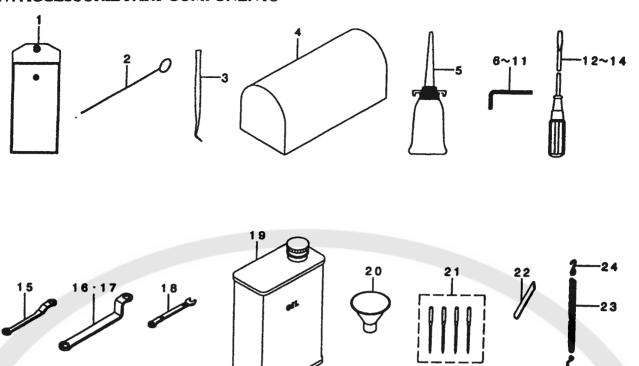
| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|---------------|----------------------------|-------|------|
| 1 | 8058550 | NEEDLE COOLER TANK SAM. | 1 | |
| 2 | 8058501 | NEEDLE COOLER TANK | (1) | |
| 3 | 8058600 | TANK COVER | (1) | |
| 4 | 8106505 | PLUG | 1 | / |
| 5 | 8058709 | NEEDLE COOLER UNIT (OVER) | 1 | 01 |
| 6 | 8058804 | NEEDLE COOLER UNIT (INTER) | 1 | 02 |
| 7 | 8059103 | NEEDLE COOLER FELT | 1 | 01 |
| 8 | 8058907 | NEEDLE COOLER FELT | 1 | 02 |
| 9 | 8059004 | NEEDLE COOLER FELT PRESSER | 1 | |
| 10 | SM-6040800-SP | SCREW | 1 | , |
| 11 | SM-6040600-SP | SCREW M4 L=6 | 2 | |
| 12 | 8102603 | NEEDLE COOLER PIPE | 0. 05 | |
| 13 | 8102405 | NEEDLE COOLER OIL WICK | 0. 15 | |

NOTE:

01... **OV-804 / OV-814**

02.... OV - 816

17. ACCESSORIE PART COMPONENTS



| REF NO. | PART NO. | DESCRIPTION | Qty | NOTE |
|---------|--------------|-------------------------------|-----|------|
| 1 | 8055002 | ACCESSORY PACK | 1 | |
| 2 | 8055101 | THREADER | 1 | |
| 3 | 8055200 | TWEEZERS | 1 | |
| 4 | 8055309 | VINYL HEAD COVER | 1 | |
| 5 | 8055408 | OILER | 1 | |
| 6 | 8056802 | HEXAGONAL WRENCH , 1.5 | 1 | |
| 7 | 8055606 | HEXAGONAL WRENCH , 2.0 | 1 | |
| 8 | 8055705 | HEXAGONAL WRENCH , 2.5 | 1 | |
| 9 | 8055804 | HEXAGONAL WRENCH , 3.0 | 1 | |
| 10 | 8055903 | HEXAGONAL WRENCH , 4.0 | 1 | |
| 11 | 8056000 | HEXAGONAL WRENCH , 5.0 | 1 | |
| 12 | 8056109 | SCREWDRIVER , SMALL | 1 | |
| 13 | 8056208 | SCREWDRIVER , MIDDLE | 1 | |
| 14 | 8056307 | SCREWDRIVER , LARGE | 1 | |
| 15 | 8056505 | SPECTALE WRENCH, 7×7 | 1 | |
| 16 | 8056406 | SPECTALE WRENCH , 5.5 | 1 | |
| 17 | 8056703 | SPECTALE WRENCH , 9.0 | 1 | |
| 18 | 8057701 | WRENCH , 5×6 | 1 | |
| 19 | 8057107 | OIL | 1 | |
| 20 | 8057206 | FUNNEL | 1 | |
| 21 | MDC-270B1104 | NEEDLE DC×27#11-4EA | 1 | |
| 22 | 8047504 | LOWER KNIFE | 1 | 1 |
| 23 | 8057404 | CHAIN | 1 | |
| 24 | 8057503 | S-SHAPED MFTAL FITTING, SMALL | 1 | |
| 25 | 8057602 | S-SHAPED MFTAL FITTING, LARGE | 1 | 1 |