2. DISASSEMBLY OF FUNCTIONAL BLOCKS

2.1. EXTERIOR PARTS

2.1.1. ENGINE HOOD, SIDE COVER AND FRONT GRILLE

(1) Open the hood cover.
(2) Remove the side cover.
(3) Disconnect the cable couplers for the headlights.
(4) Remove the front grille.



Fig. 2-1

1.2 SEAT, WHEEL FENDERS, FLOOR DECK AND RELATED PARTS

Gear transmission model

(1) Remove the seat.
(2) Remove the dif-lock pedal.
(3) Remove the main change lever knob.
(4) Remove the levers (change lever and position control lever).
(5) Remove the change cover.
(6) Remove the fender stays.
(7) Remove the fenders.
(8) Remove the seat bracket.

HST model

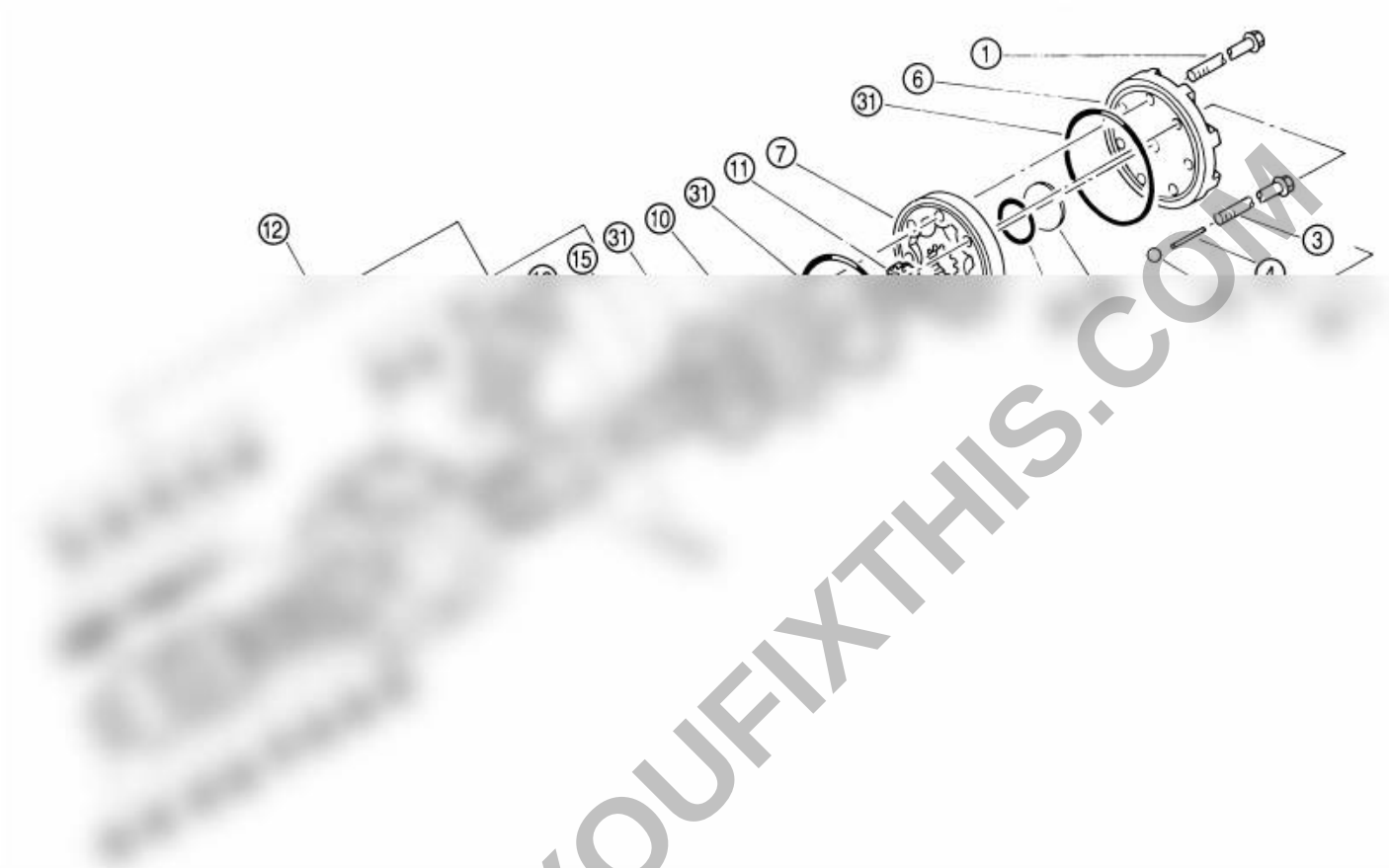
(1) Remove the seat.
(2) Remove the HST pedal.
(3) Remove the range change lever knob.
(4) Remove the levers (change lever and position control lever).
(5) Remove the change cover.
(6) Remove the fender stays.
(7) Remove the fenders.
(8) Remove the seat bracket.

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3. INTEGRAL ORBIT ROLL

3.1. COMPONENTS



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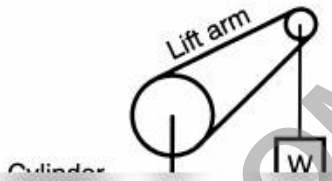
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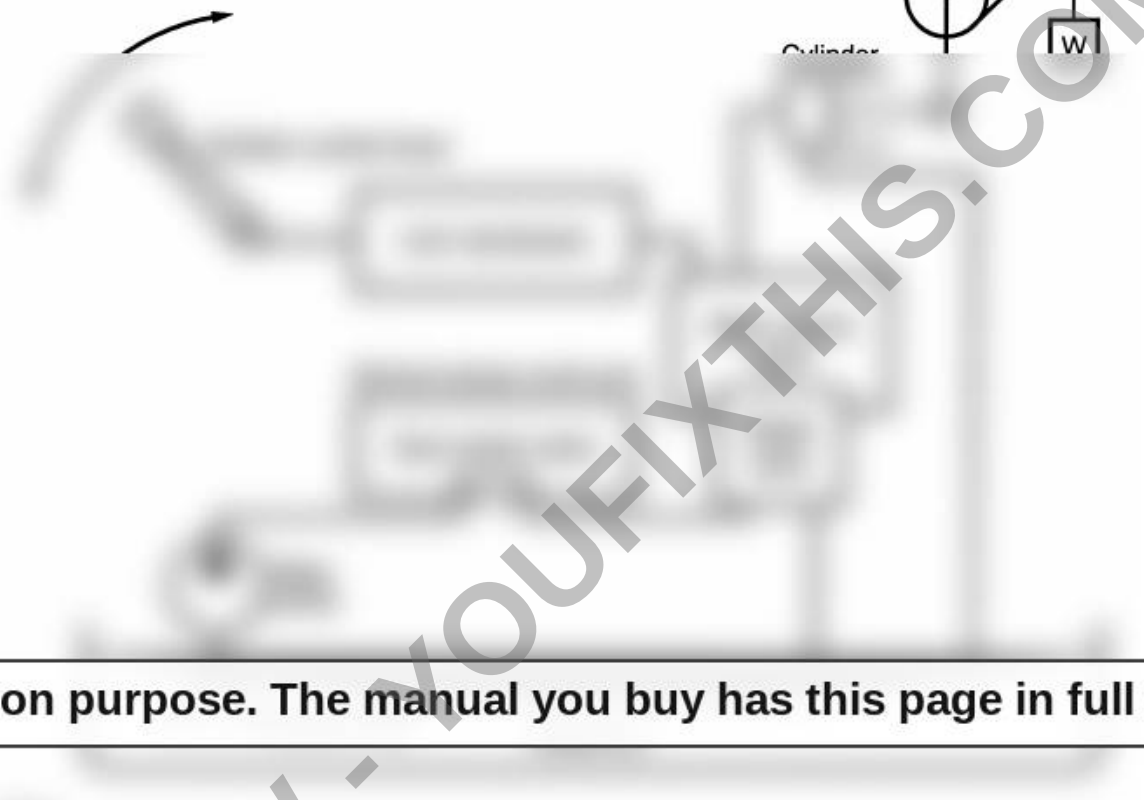
CHAPTER 10. HYDRAULIC SYSTEM

§1. GENERAL DESCRIPTION

1. HYDRAULIC SYSTEM DIAGRAMS

1.1. STANDARD TYPE (TM3160F)

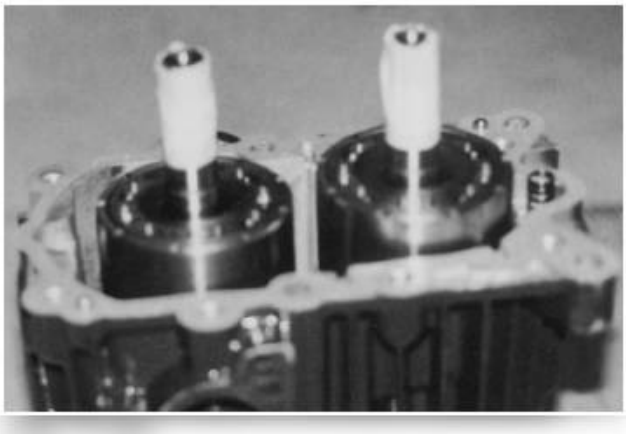




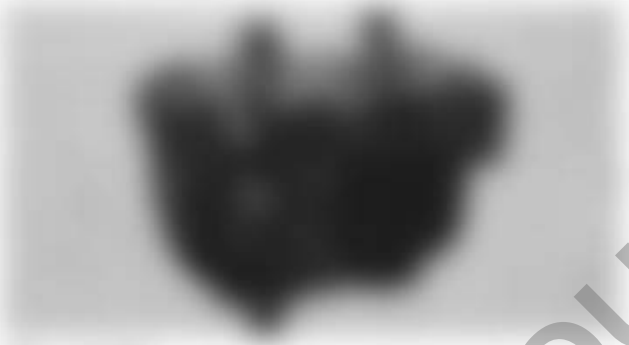
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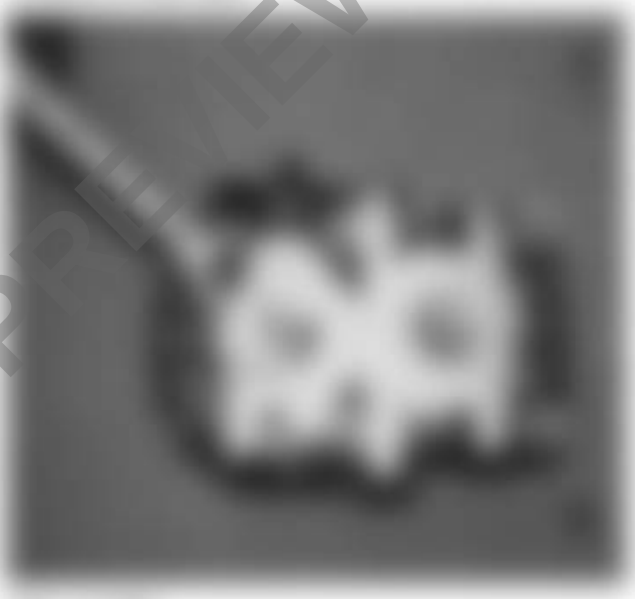
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2. DISASSEMBLY, INSPECTION, AND REASSEMBLY

2.1. DISASSEMBLY

(1) Draw out the Pitman arm with a puller.
Note:
Make sure that aligning marks are applied to both sector shaft and Pitman arm. If they are not, apply them before disassembly.

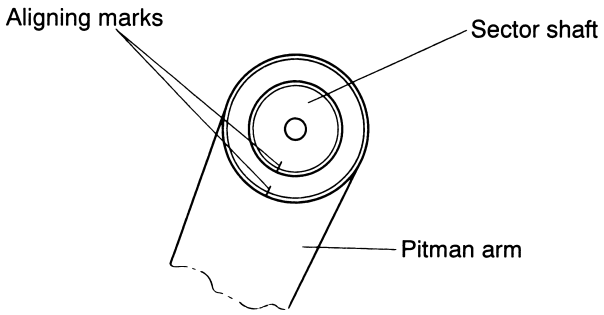


Fig. 7-3

(2) Drain the gear box of oil through the filler by removing the plug.

(3) Remove the lock nut for the adjusting screw and then remove the bolts which tighten the side cover.

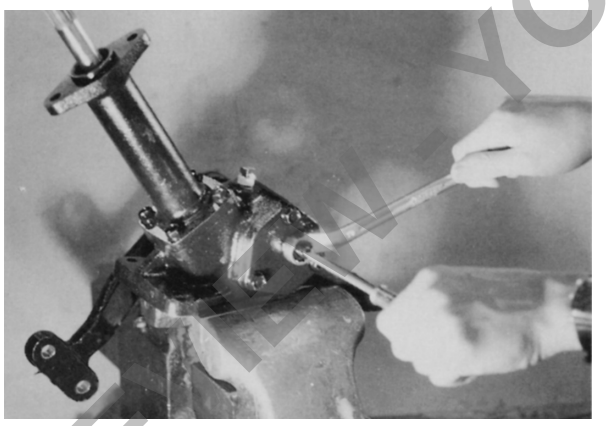


Fig. 7-4

(4) Hold the side cover to prevent it from turning and remove the side cover by turning the adjusting screw clockwise.

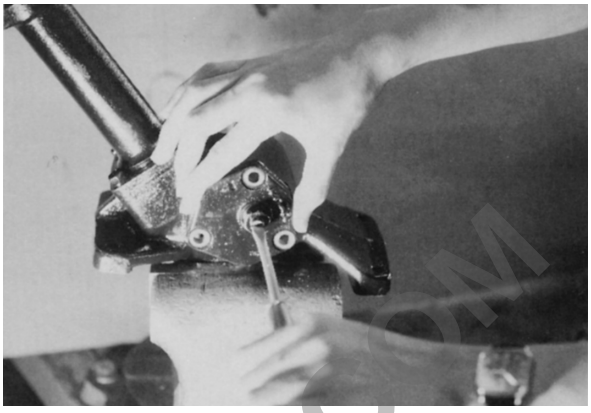


Fig. 7-5

(5) Shift the sector shaft to the neutral (straight travelling) position by turning the worm and pull off the sector shaft.

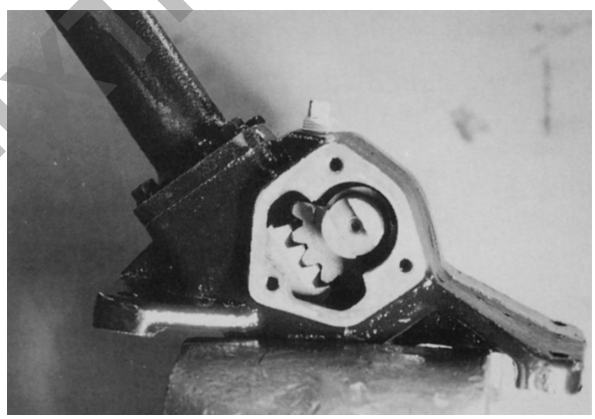


Fig. 7-6

(6) Remove the bolts which tighten the rear cover and take out the rear cover and shims. Then draw out the ball-nut assembly.

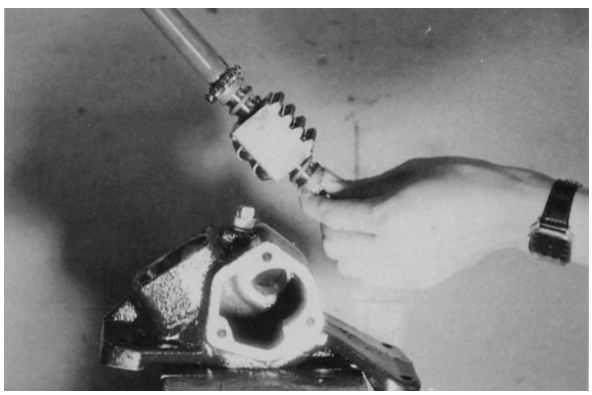
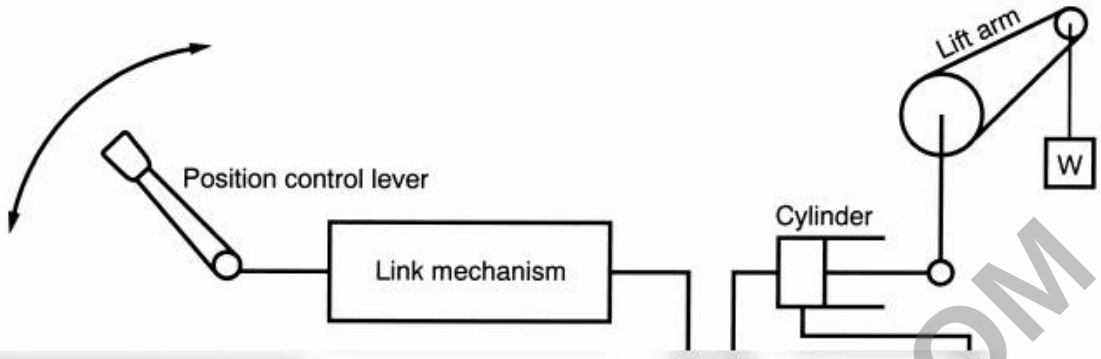


Fig. 7-7

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1.2. POWER STEERING & HST TYPES (TM3200F, TM3240F & TM3200FH, TM3240FH)



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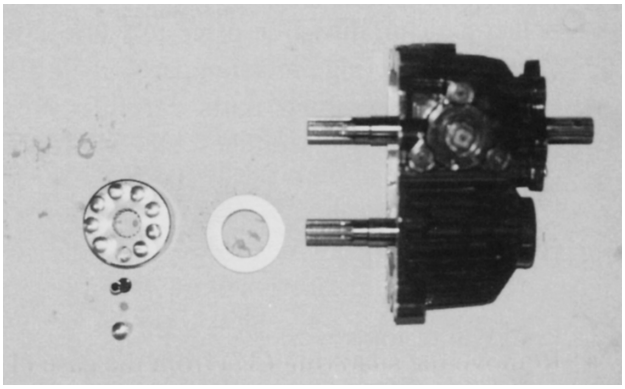


Fig. 11-14

(5) Removal of the motor shaft

a. Remove the snap ring (33) from the case (1) and then remove the bore plug (38).

b. After removing the bore plug (38), remove the snap ring (33) installed behind the plug.

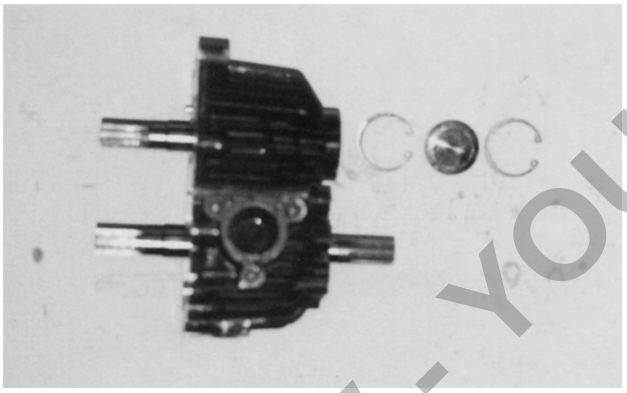


Fig. 11-15

c. Remove the motor shaft (11) from the case (1) by driving the shaft end A with a plastic hammer.

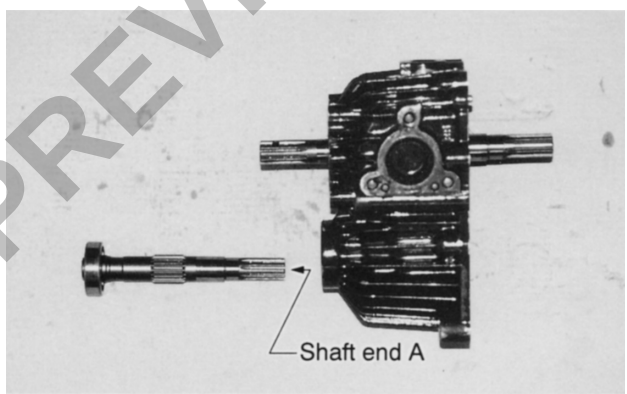


Fig.11-16

(6) Removal of the pump shaft

a. Remove the snap ring (32) from the case (1).

b. Remove the shaft (10) from the case (1) by driving the shaft end A (port block side) with a plastic hammer.



Fig. 11-17

(7) Removal of the trunnion shaft

a. Remove the three screws (M8).

b. Remove the snap ring (43) and then remove the trunnion cover. The two knock pin should also removed.

c. Drive the outside end of the trunnion pin with a plastic hammer and remove it towards the inside of the case.

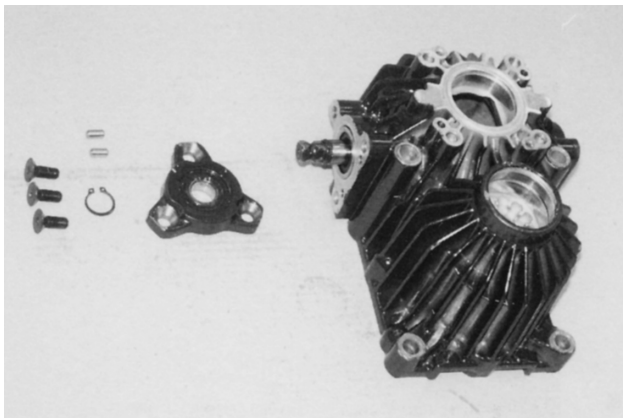


Fig. 11-18

d. Pry off the oil seal from outsides the case.

e. Remove the snap ring (42) from the case.

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• Removal of the cylinder.

Push up the bottom of the cylinder to remove.

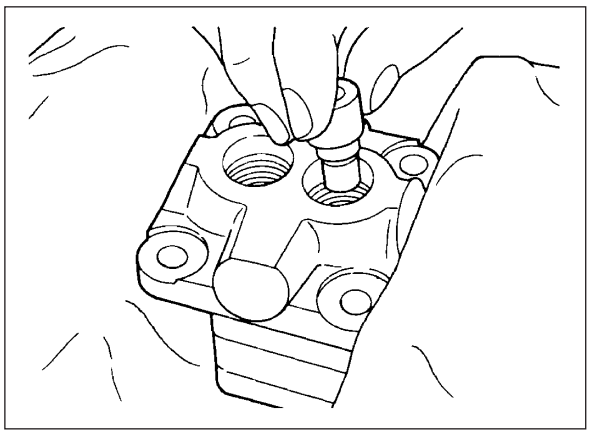


Fig. 6-6

2.3. INSPECTION OF INJECTION PUMP

• Inspection of movement of the plunger/cylinder assembly: element
After washing well in clean fuel, place the assembly slanted at 600 and then pull up the plunger, and then give it a spin. When the plunger comes down without any hitch, the assembly is normal.

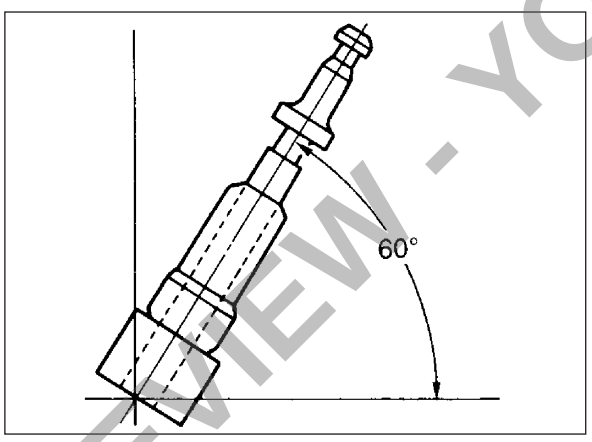


Fig. 6-7

• Wash the delivery valve sufficiently in clean fuel. While it is still wet after washing, close the opening with a finger and pull up the valve and release it in midway. If the valve comes down smoothly without any hitching and stops at the relieve valve, the delivery valve is normal.

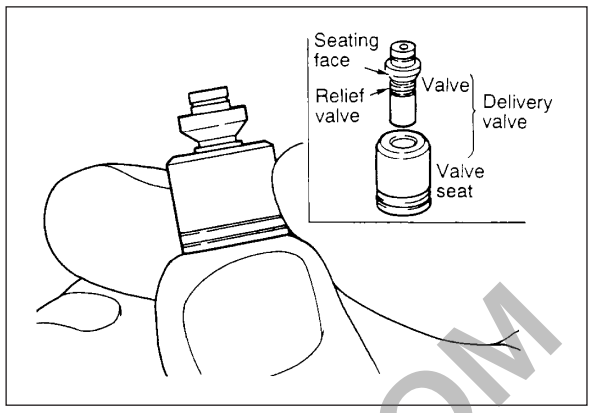


Fig. 6-8

2.4. RE-ASSEMBLY OF INJECTION PUMP

• Installation of the cylinder
Install the cylinder into the pump housing, aligning the groove in the cylinder with the knock pin in the housing.
Make sure that the knock pin is securely seated in the cylinder groove.

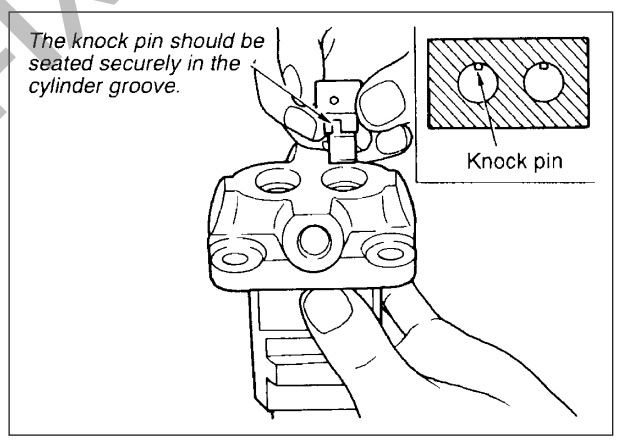


Fig. 6-9

• Installation of the delivery valve.

Install the delivery valve, valve gasket, valve spring, and O-ring, and then temporarily tighten the delivery holder.

Note:
Take care not to damage the O-ring by other parts such as the threads of the valve holder.

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