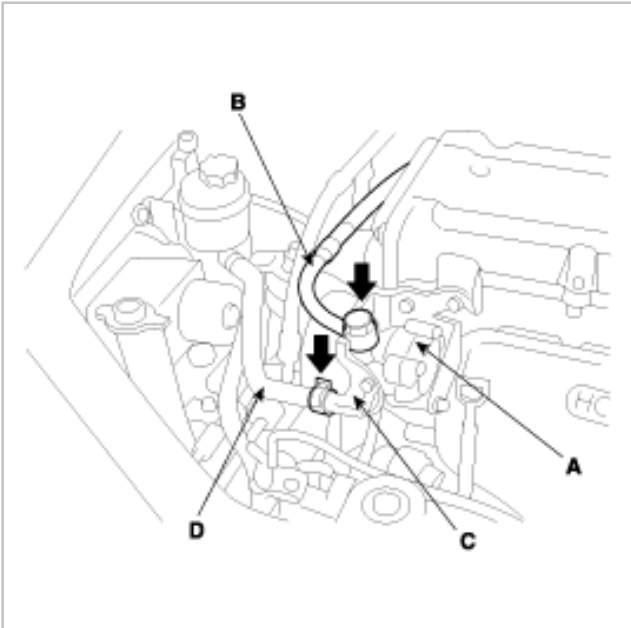


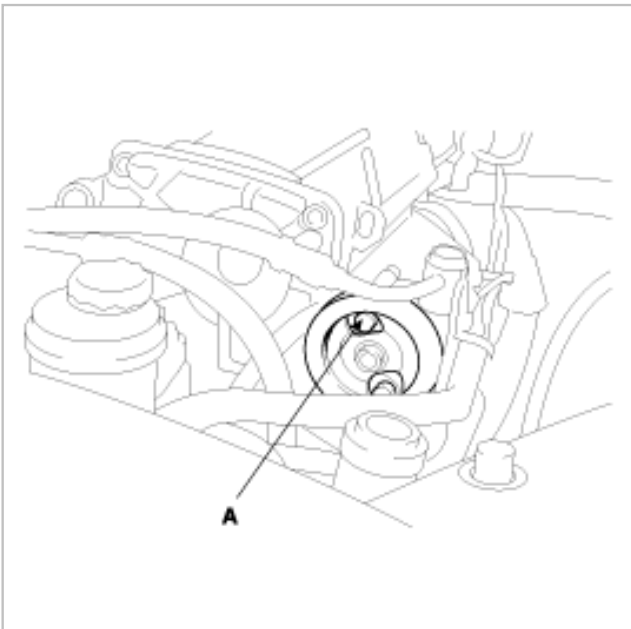


REMOVAL

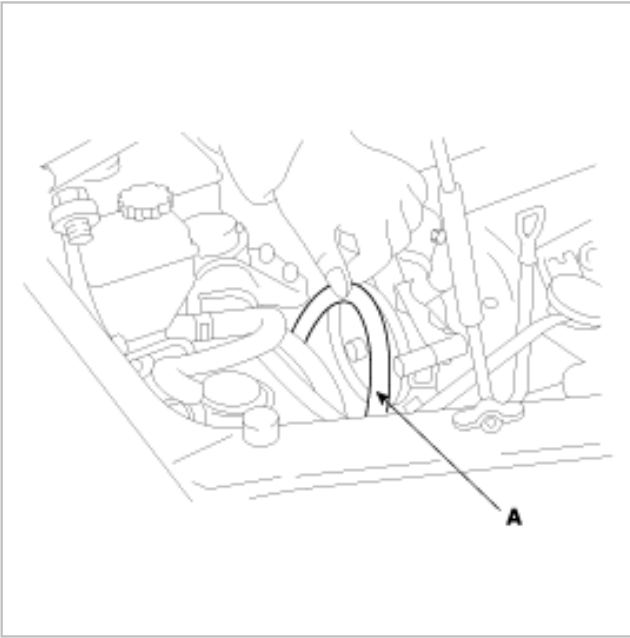
1. Remove the pressure hose(A) from the oil pump(B).
2. Disconnect the suction hose(C) from the suction connector(D) and drain the fluid into a container.



3. Loosen the oil pump mounting bolts to remove the V-belt.
4. Loosen the tension adjusting bolt(A).



5. Remove the power steering drive belt(A) from the power steering oil pump pulley.

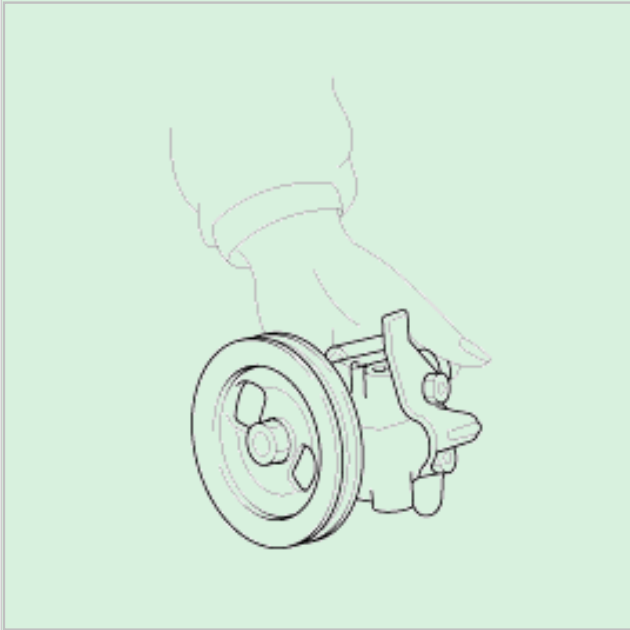


6. Remove the power steering oil pump mounting bolts and the tension adjusting bolt.

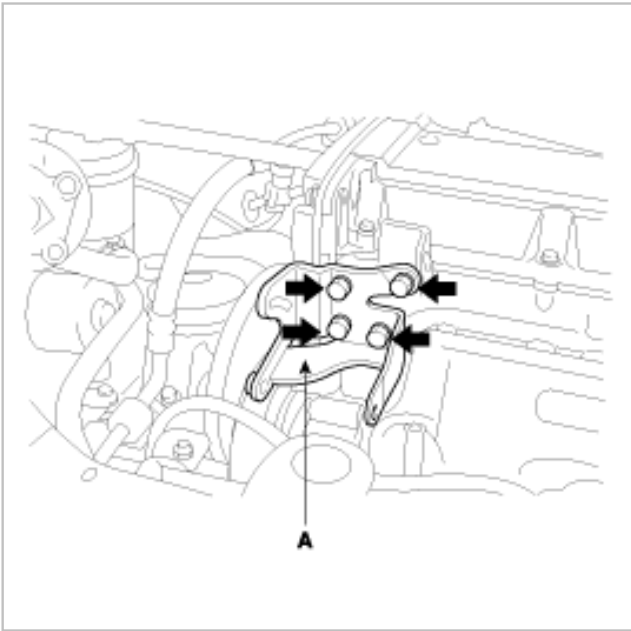
7. Remove the power steering oil pump assembly.

NOTE

Be careful not to drip fluid from the power steering oil pump.

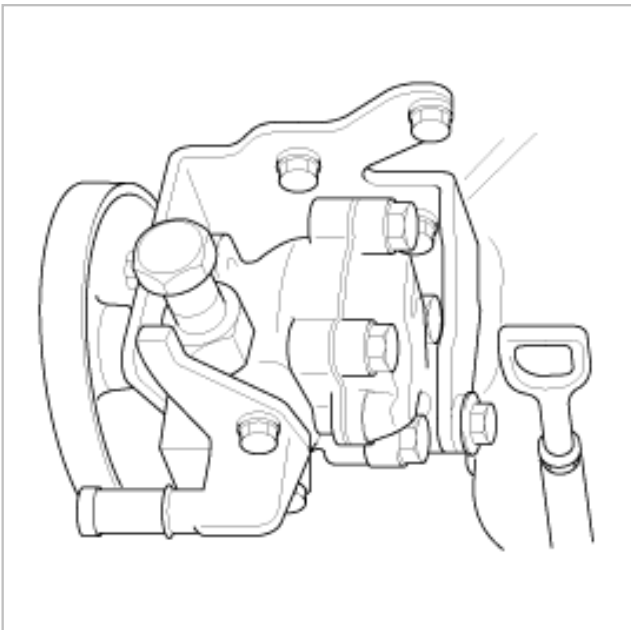


8. Remove the power steering oil pump mounting bracket(A).



INSTALLATION

1. After installing the oil pump to the oil pump bracket, install the "V" belt and tighten the bolt adjusting tension to the specified torque.



2. Install the suction hose.

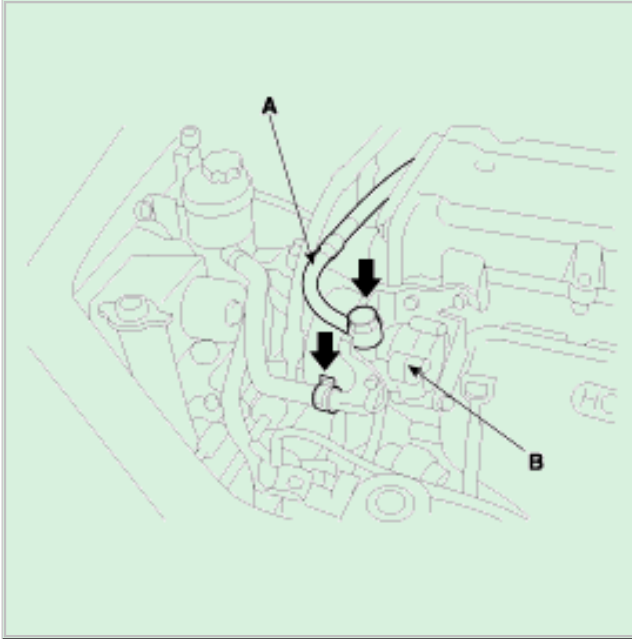
CAUTION

Install the pressure hose to the oil pump.

3. Install the pressure hose(A) to the oil pump(B).

NOTE

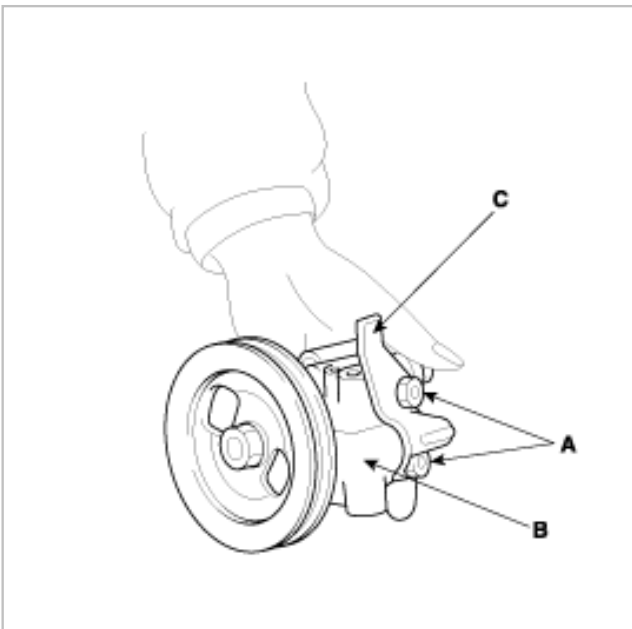
Install the pressure hose being careful so that it does not twist and come in contact with other components.



4. Add power steering fluid (PSF-3).
5. Air bleed the system.
6. Check the oil pump pressure.

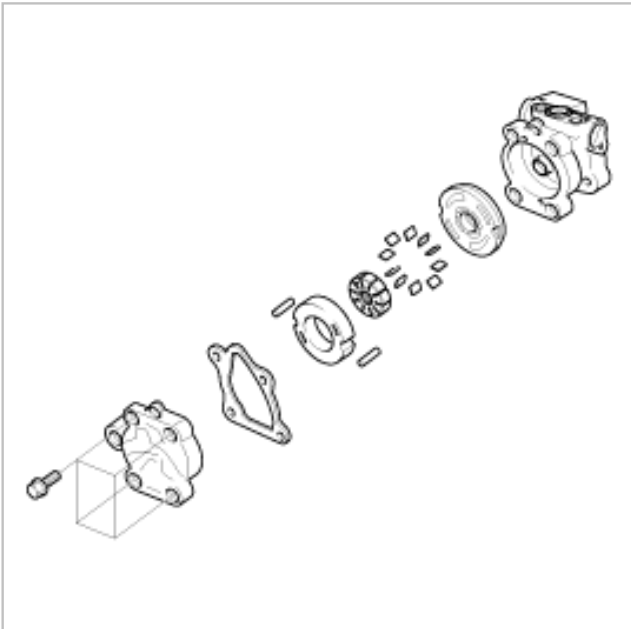
DISASSEMBLY

1. Remove two bolts(A) from the oil pump body(B), and then remove the suction pipe(C) and O-ring.



2. Loosen the four bolts and remove the oil pump cover assembly.
3. Remove the cam ring.
4. Remove the rotor and vanes.

5. Remove the oil pump side plate.

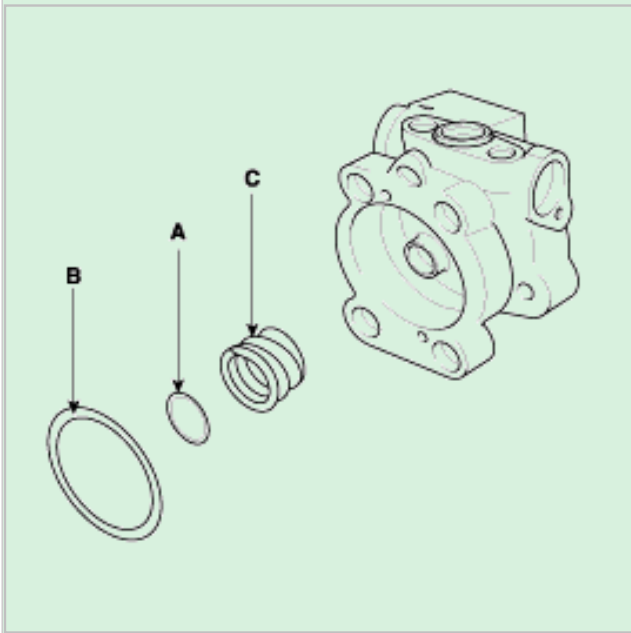


6. Remove the inner(A) and outer O-ring(B).

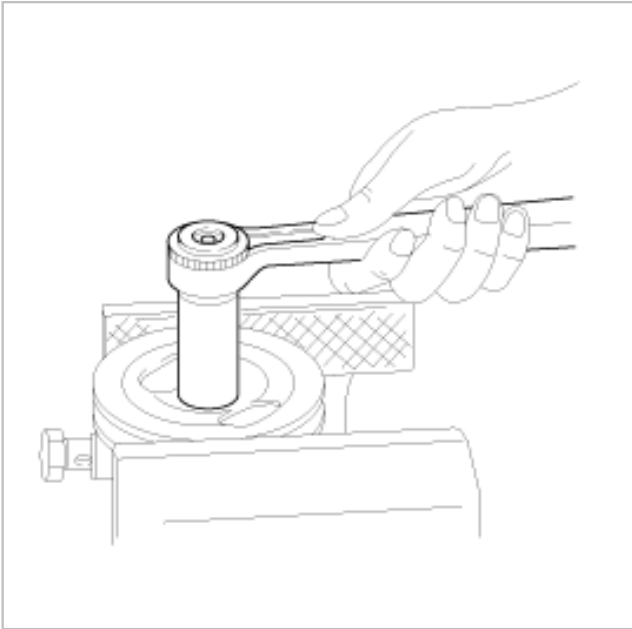
7. Remove the side plate spring(C).

NOTE

When assembling, use a new gasket and O-ring.

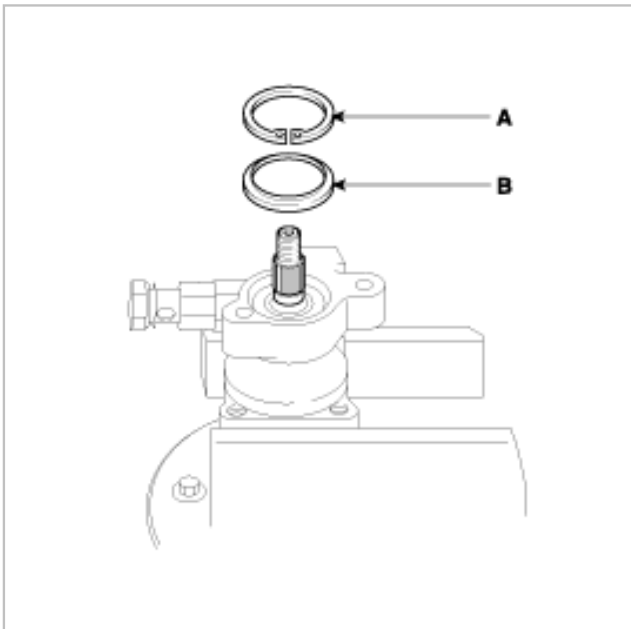


8. Mount the pulley in a vise and remove the pulley nut and the spring washer.

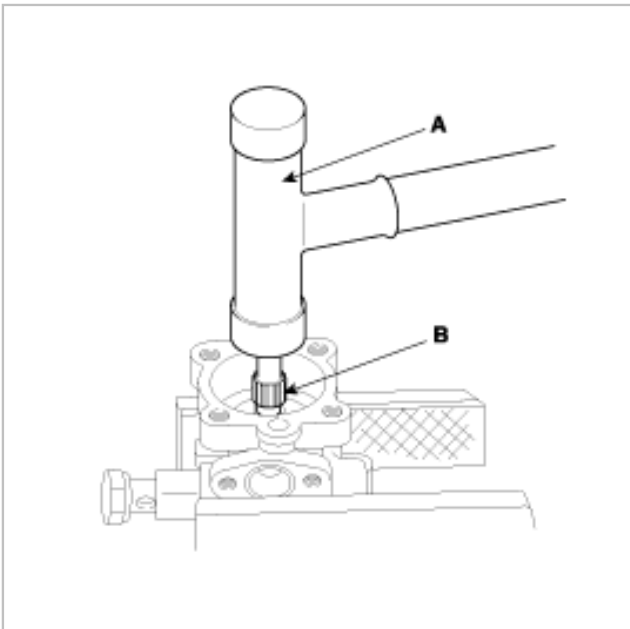


9. Pull the pulley out.

10. After removing the snap ring(A) of the shaft with snap ring pliers, remove the dust spacer(B).



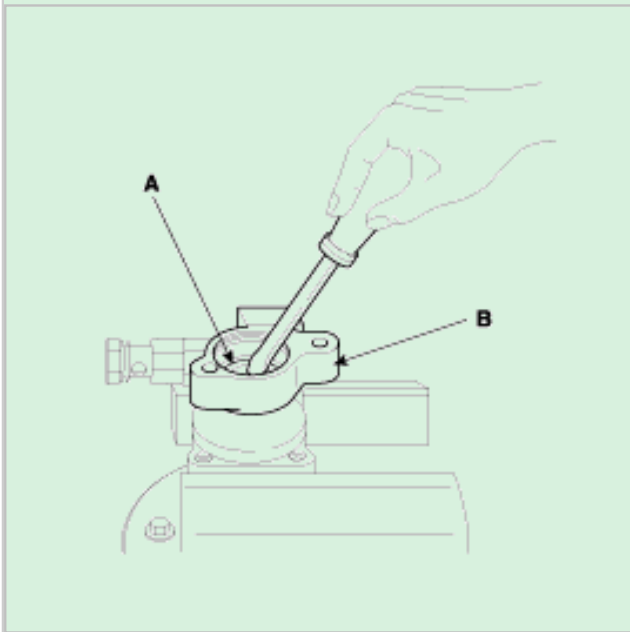
11. Tap the rotor side of the shaft slightly with a plastic hammer(A) to remove the shaft(B).



12. Remove the oil seal(A) from the oil pump body(B).

NOTE

When assembling, use a new oil seal.

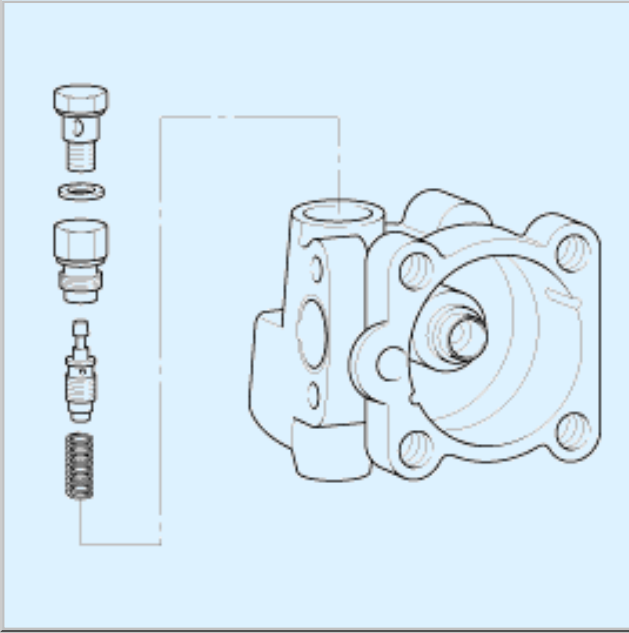


13. Remove the connector from the oil pump body, and take out the flow control valve and the flow control spring.

14. Remove the O-ring from the connector.

CAUTION

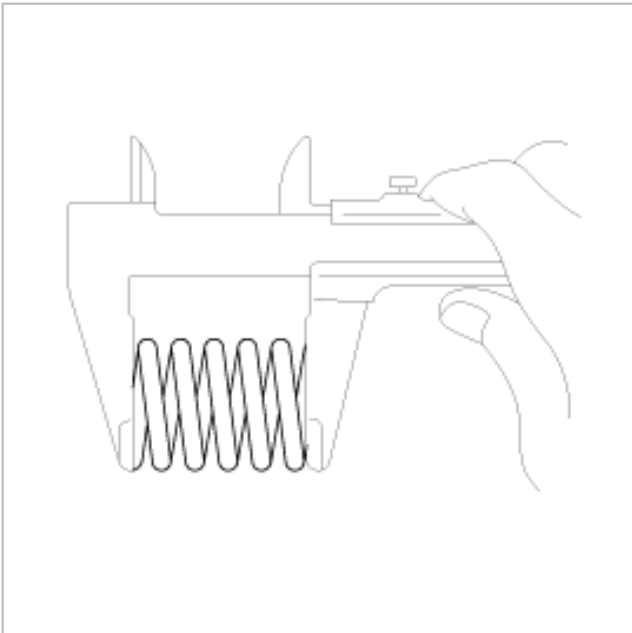
Do not disassemble the flow control valve.



INSPECTION

1. Check the free length of the flow control spring.

Free length of the flow control spring : 36.5mm

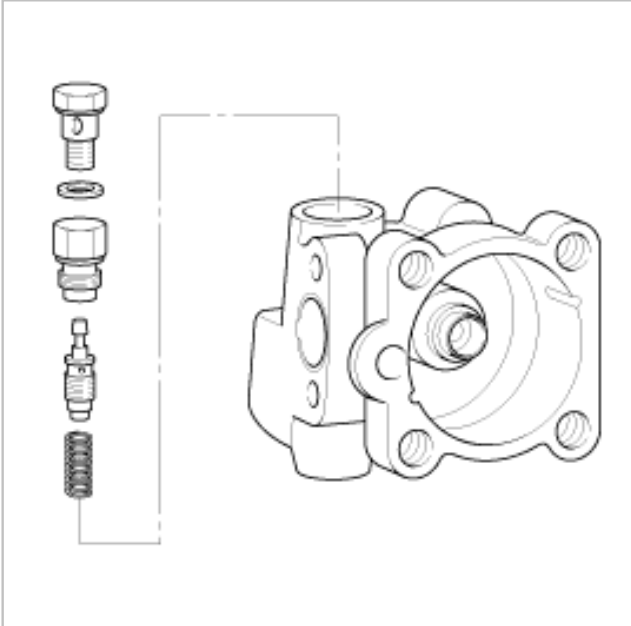


2. Check that the flow control valve is not bent.
3. Check the shaft for wear and damage.
4. Check the V-belt for wear and deterioration.
5. Check the grooves of the rotor and vanes for stratified abrasion.
6. Check the contact surface of the cam ring and vanes for stratified abrasion.

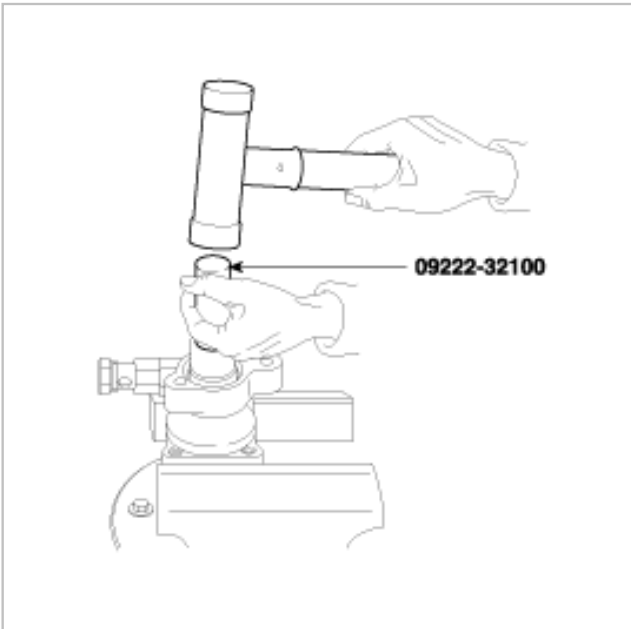
7. Check vanes for damage.
8. Check that there is no striped wear in the side plate or contacting part between the shaft and the pump cover surface.

REASSEMBLY

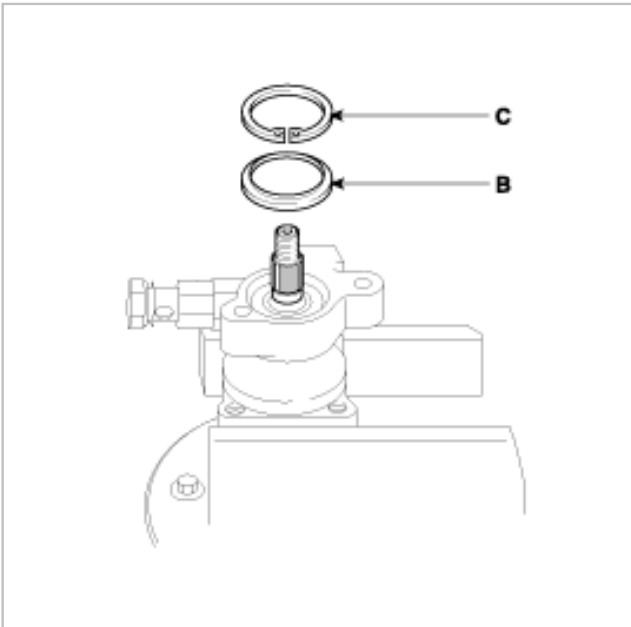
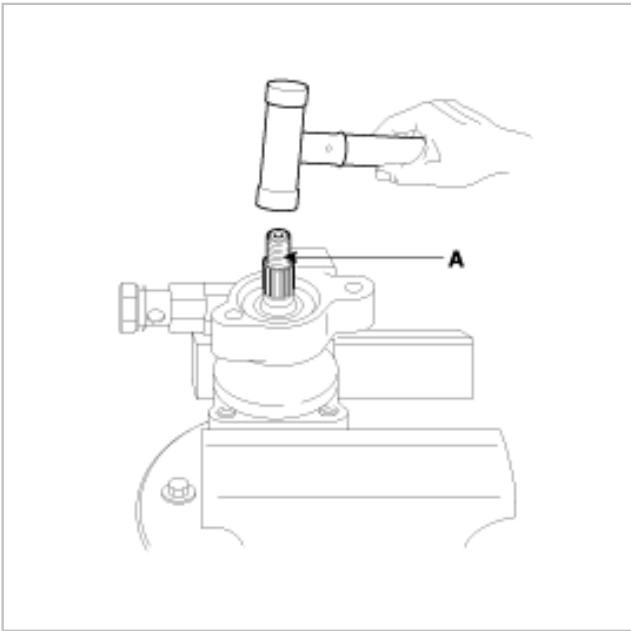
1. Install the flow control spring, the flow control valve and the connector in to the pump body.



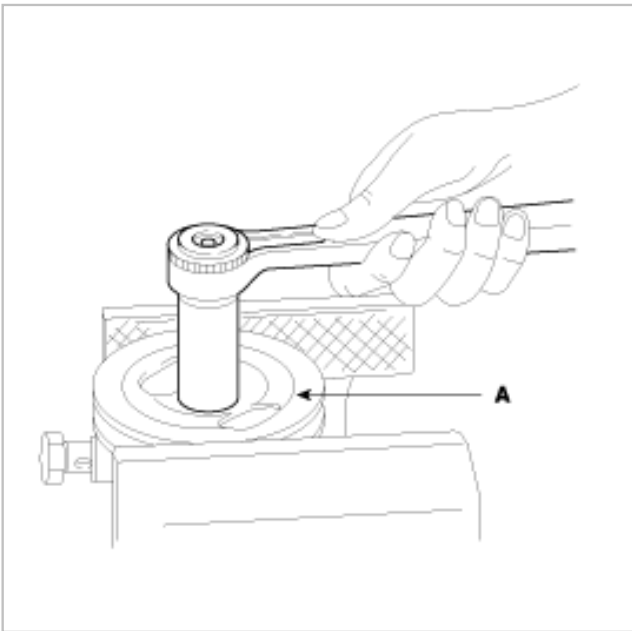
2. Install the oil seal in the pump body by using the special tool(09222-32100).



3. After inserting the shaft assembly(A) into the pump body, install the dust spacer (B) and snap ring(C).

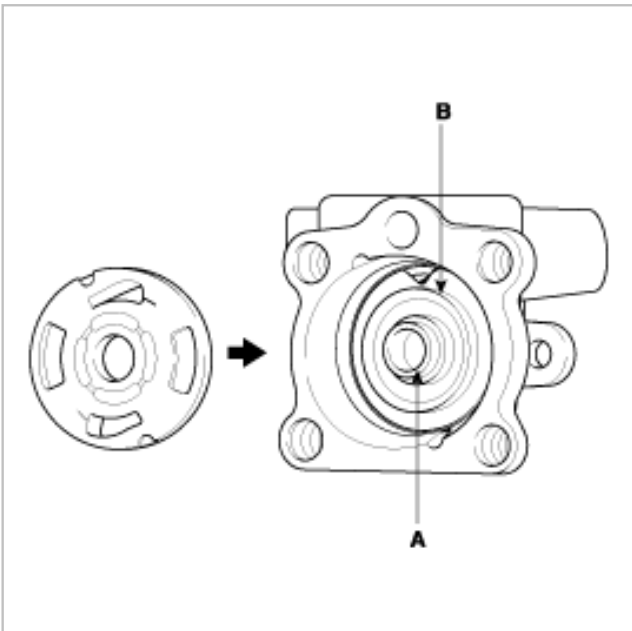


4. Install the pump pulley(A).

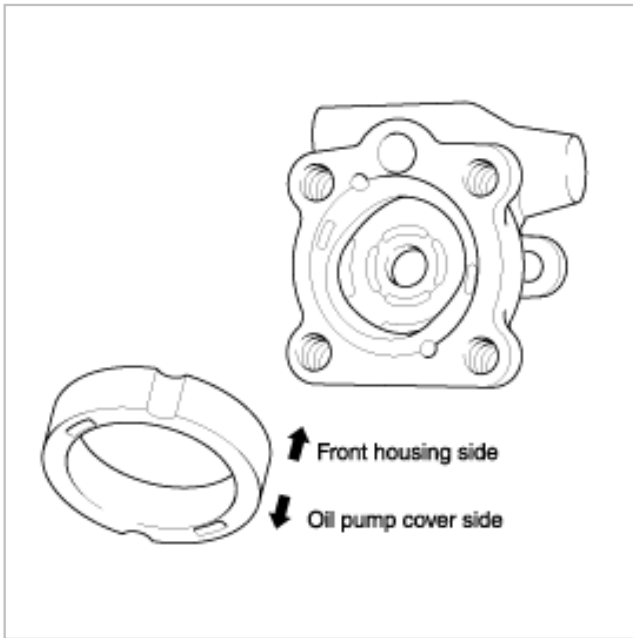


5. Install the spring(A) and inner O-ring(B).

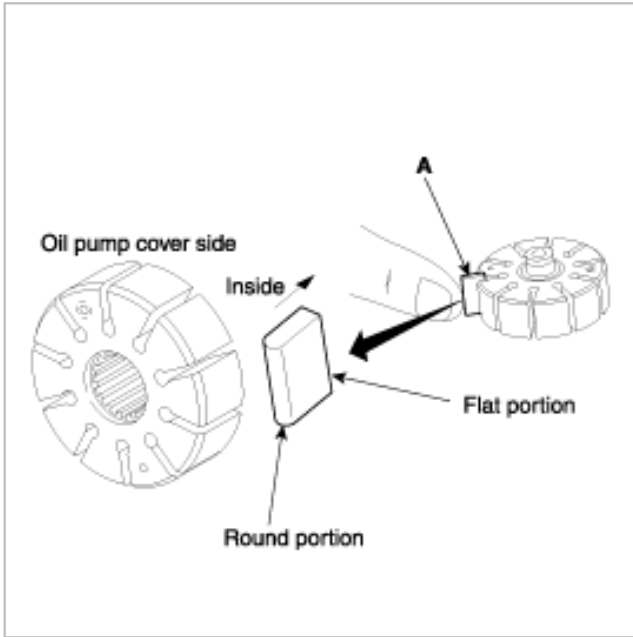
6. Insert the outer O-ring in the oil pump side plate and then install it in the pump body.



7. After inserting the lock pin into the groove of the front housing, install the cam ring attending to the direction.



8. Install the rotor.
9. Install vanes(A) so that the rounded edges face outward.



10. Install the gasket and oil pump cover assembly.
11. Install the suction pipe and O-ring.

