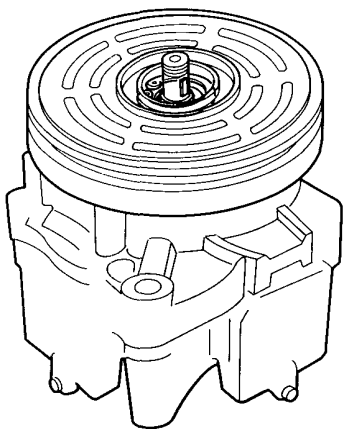


# Compressor Shaft Seal

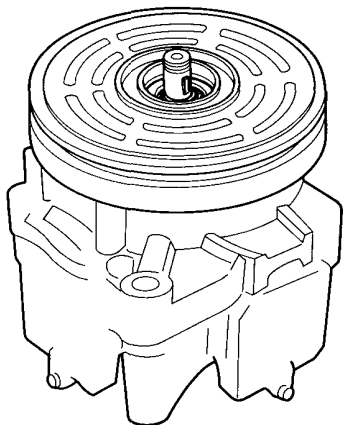
## Shaft Seal Assembly Removal

NOTE: Make sure that the suction and discharge joints are plugged with the caps.

1. Remove the pressure plate.  
NOTE: Removal of the clutch pulley and coil is not necessary.
2. Remove the 32 mm snap ring.

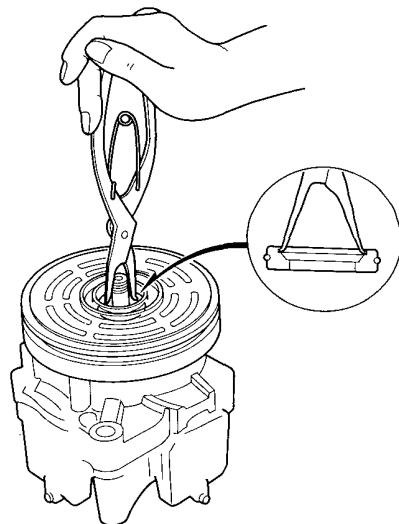


3. Remove the woodruff key from the key way.  
NOTE: If the woodruff key is reused, be careful not to damage the key.
4. Remove the shim(s).  
NOTE: After removing the shim(s), place it in a parts rack so it not scattered and lost.

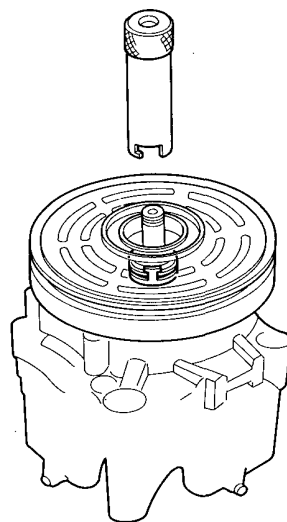


5. Hook the tip of the special tool (modified snap ring pliers) on the slot of the seal seat.
6. Pull out the seal seat.

**CAUTION:** Move the tool in parallel with the compressor shaft. Do not damage the compressor.



7. Insert the shaft seal remover into the compressor aligning the cutout of the remover with the metal pawl of the seal case.
8. Rotate the remover clockwise or counterclockwise to make sure that the cutout is engaged with the metal pawl.



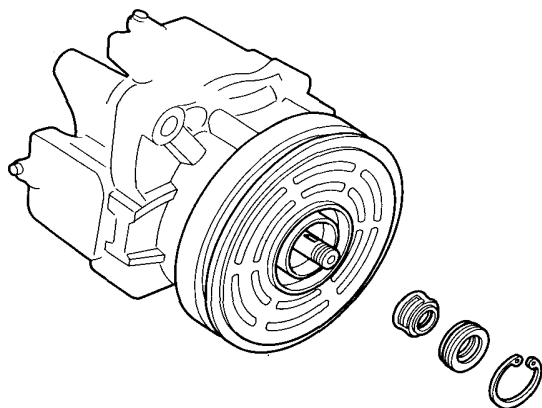


9. Press the remover until bottoms, then turn it counterclockwise as far as it will go.
10. Withdraw the remover.
11. Lay down the compressor and clean the shaft seal contacting face of the compressor with cleaning solvent.

**CAUTION:**

- Keep the cleaning solvent and dirt out of the compressor.
- Do not use the lint free cloth for cleaning.
- Do not use a compressed air for cleaning.
- Do not spill the refrigerator oil from the compressor. Refill the same amount of the oil if the oil is spilled out.

NOTE: Install the shaft seal assembly after the cleaning solvent is dried out.

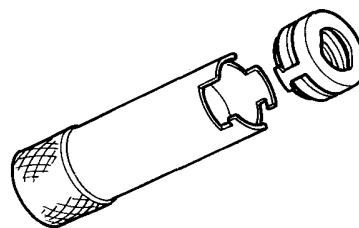


## Shaft Seal Assembly Installation

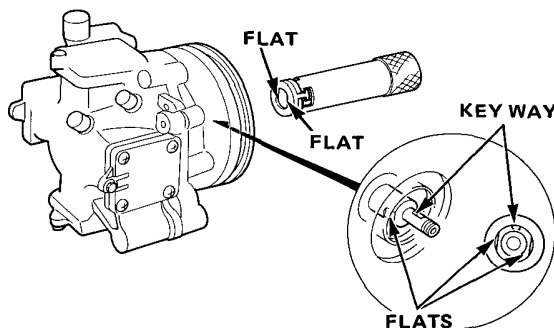
1. Clean the new shaft seal with cleaning solvent thoroughly.
2. Lubricate the shaft seal with refrigerator oil (SUNISO 5GS) and install it on the shaft seal remover.

**NOTE:**

- Use only clean refrigerator oil.
- Do not touch the sealing surfaces of the shaft seal after lubricated.



3. Liberally lubricate the compressor shaft with refrigerator oil.
4. Install the shaft seal onto the compressor shaft aligning the seal case flats with the shaft flats.



(cont'd)

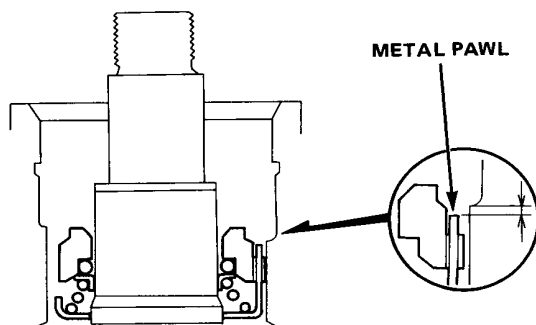
# Compressor Shaft Seal

## Shaft Seal Assembly Installation (cont'd)

5. Press the remover until bottoms, then turn it counterclockwise as far as it will go.  
NOTE: The remover will be lowered when the falts are aligned.

6. Turn the remover clockwise, then pull out.

7. Make sure that the metal pawl of the seal case is approx. 0.5 mm below the compressor shoulder at least as shown.



8. Check the inside diameter of the compressor for freedom of score marks or foreign particles.

9. Clean the seal seat with cleaning solvent, then lubricate the seal seat with refrigerator oil (SUNISO 5GS).

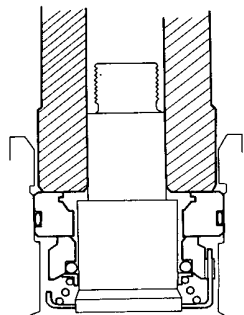
**NOTE:**

- Use only clean refrigerator oil.
- Do not touch the sealing surface of the seal seat after lubricated.

10. First slide the seal seat into the compressor by hand as far as possible.

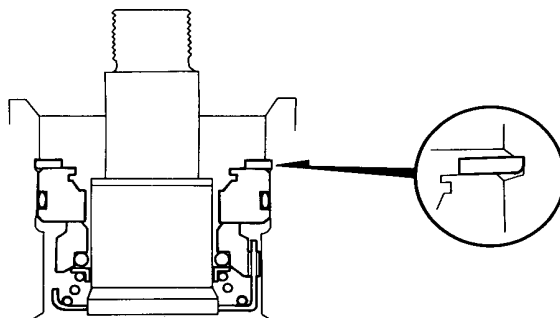
11. Press the seal seat with the grip side of the remover.

**CAUTION:** Be careful not to damage the compressor.

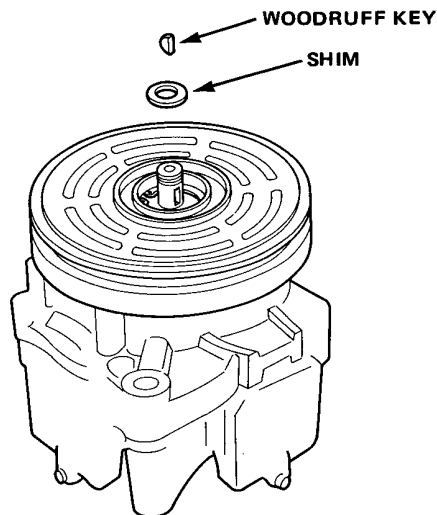


12. Install the snap ring with the chamfered side inside.

13. Press the snap ring with the grip side of the remover.



14. Install the shim and woodruff key.



15. Evacuate and charge the compressor, then perform the leak test.

16. Install the pressure plate. Measure the clearance between the pulley and pressure plate all the way around. If the clearance is not within the specified limits, the shim(s) must be added or removed as required.