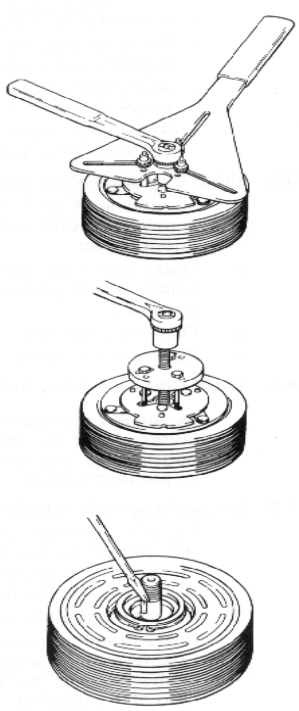
# Cruising Kit Instructions
## Clutch Coil Replacement & Filter Change

# Service Operations – Clutch

## Keyed Shaft Armature Removal

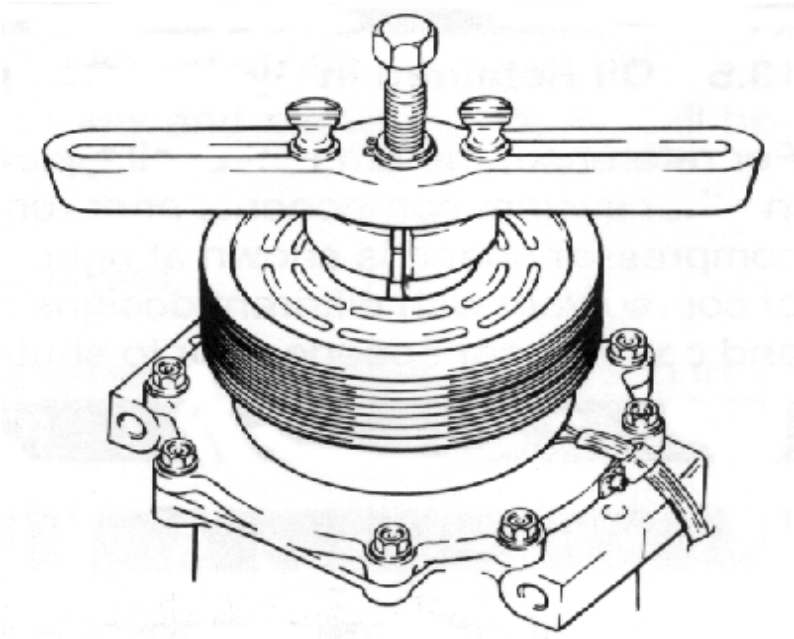
**(Note: Keyed shaft can be identified in that the holes for the armature plate spanner *will* have threads in them.)**

1. If armature dust cover is present, remove the 3 or 6 bolts holding it in place and remove cover. If auxiliary sheet metal pulley is present, remove the screws holding it in place. Then remove pulley.
2. Insert pins of armature plate spanner into threaded holes of armature assembly.
3. Hold armature assembly stationary while removing retaining nut with 3/4", 19mm or 14mm socket wrench, as appropriate.
4. Remove armature assembly using puller. Thread 3 puller bolts into the threaded holes in the armature assembly. Turn center screw clockwise until armature assembly comes loose.
5. If shims are above shaft key, remove them now. If shims are below shaft key, the key and bearing dust cover (if present) must be removed before shims can be removed.
6. Remove bearing dust cover (if present). *Use caution to prevent distorting cover when removing it.*
7. Remove shaft key by tapping loose with a flat blade screwdriver and hammer.
8. Remove shims. Use a pointed tool and a small screwdriver to prevent the shims from binding on the shaft.



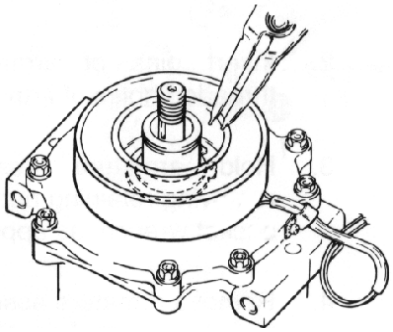
## Rotor Assembly Removal

1. If bearing dust cover has not been removed, remove it now. *See step 6 of Section 14.1, for Armature Assembly Removal.*
2. If internal snap ring for bearing is visible above the bearing, remove it with internal snap ring pliers.
3. Remove rotor snap ring.
4. Remove shaft key.
5. Remove rotor pulley assembly:
    - Insert the lip of the jaws into the snap ring groove.
    - Place rotor pulley shaft protector (Puller set) over the exposed shaft.
    - Align thumb screws to puller jaws and finger tighten
    - Turn puller center bolt clockwise using a socket wrench until rotor pulley is free.



## Field Coil Assembly Removal

1. Loosen lead wire clamp screw with #2 Phillips screwdriver until wire(s) can be slipped out from under clamp.
2. Undo any wire connections on the compressor which would prevent removal of the field coil assembly.
3. Remove snap ring
4. Remove the field coil assembly



## Field Coil Assembly Installation

Reverse the steps of Section 14.3. Protrusion on underside of coil ring must match hole in front housing to prevent movement and correctly locate lead wire(s).

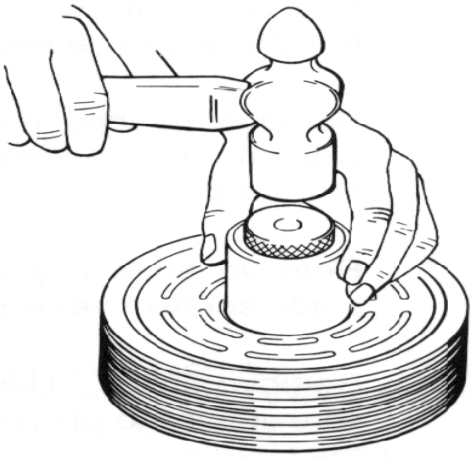
## Rotor Assembly Installation

1. Place compressor on support stand, supported at rear end of compressor. If the compressor must be clamped in a vise, clamp only on the mounting ears, never on the body of the compressor.

2. Set rotor squarely over the front housing boss.

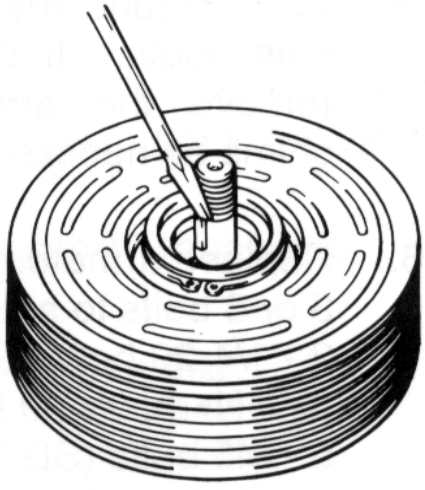
3. Place the rotor installer ring into the bearing bore. Ensure that the edge rests only on the inner race of the bearing, not on the seal, pulley, or outer race of the bearing.

4. Place the driver into the ring and drive the rotor down onto the front housing with a hammer or arbor press. Drive the rotor against the front housing step. A distinct change of sound can be heard when using the hammer to install the rotor.



5. Reinstall rotor bearing snap ring, if it has been removed, with internal snap ring pliers.

6. Reinstall rotor retaining snap ring with external snap ring pliers. If a bevel is present on the snap ring, it should face up (away from the body of the compressor).



7. Reinstall rotor bearing dust cover (if present) by gently tapping it into place.

# System Preventive Maintenance

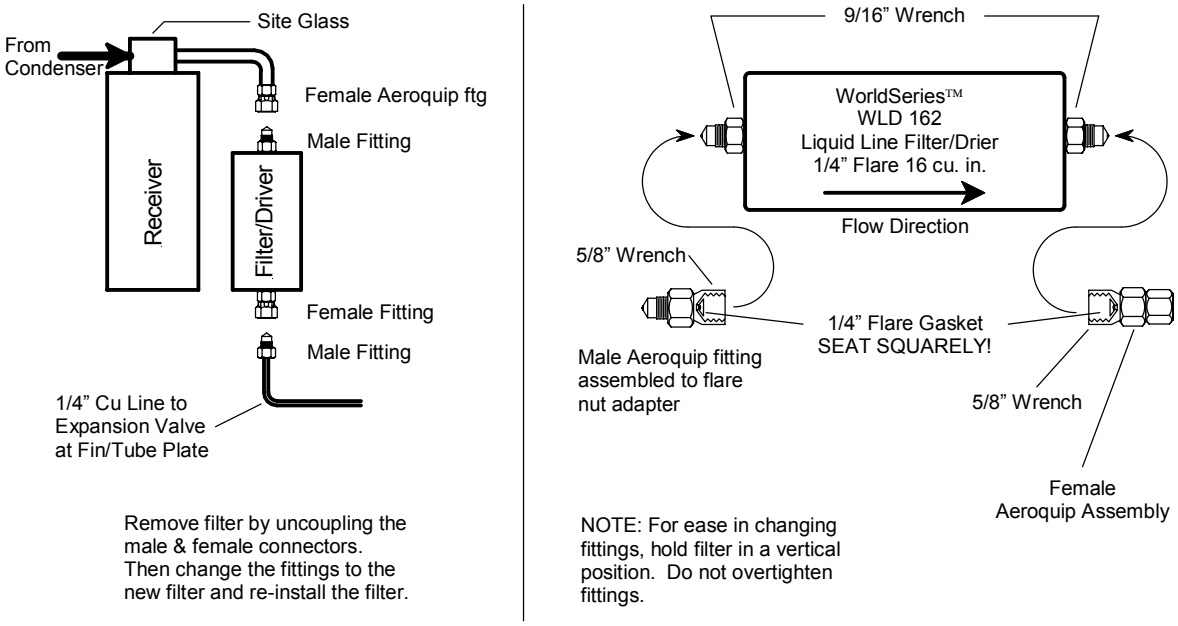
Very little maintenance is required for efficient operation.

Once or twice a year:
1. Periodically check belt for proper tension.
2. Check the two flare nuts on the compressor and the two flare nuts on the plate for tightness.
3. Check for oil around fittings, which would indicate leaks.
4. Check compressor bracket for tightness.
5. Change filter drier annually.

When the plate is not in operation:
1. Wipe it off to keep it clean.

In addition:
1. Run compressor at least once a month to lubricate seals.
2. Check refrigerant levels on a monthly basis.

**Caution:** *Do not run the compressor for more than 2 hours at a time.*




**FILTER/DRIER CHANGE OUT**