

RE: DC 5000 MOTOR COUPLING CHANGE TO JAW TYPE

It is possible to replace this without discharging the system. To replace this drive coupling it will be necessary to shorten the motor shaft and key.

- 1) Remove the four hex bolts holding the DC motor to the rubber mounts.
- 2) Raise the motor and condenser assembly enough to remove the two hex head bolts holding the motor to the motor base. These are located under the base.
- 3) Remove the cable clamps to allow the wire to the high pressure switch to slacken.
- 4) Loosen the four long bolts at the compressor that hold the compressor and motor together. Lift the motor out and away from the coupling.
- 5) Remove the old coupling. (The motor side may have two 5/32" allen screws in it. This will require removing the top screw to reveal the lower one). The compressor side has been fitted with locktite. Heat this coupling with a heat gun or hair drier to soften the locktite. Install the new compressor side coupling. It should bottom on the shaft shoulder after the spline. Make sure the allen screw is engaging the flat on the shaft. Use locktite 271 on the shaft and 1/8" allen screw. Hacksaw the motor shaft to 1" measuring from the face of the motor to the end of the shaft. Hacksaw the key to fit the length of the remaining key way. Install the keyed coupling on the motor leaving .325" (21/64") between the back of the coupling and the motor face. Do not use locktite here because it may be necessary to reposition this after the motor is reinstalled.
- 6) Install the drive isolator in the compressor side of the coupling.
- 7) Index the motor coupling in the drive isolator as the motor is repositioned.
- 8) Refit the four long bolts at the compressor and tighten.
- 9) Reinstall the motor to it's base and reinstall the four bolts to the rubber mounts etc.

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