



John Deere Compressor Conversion Kit

Compressor Conversion Mounting Instructions 990-403 & 990-405

- 1 Remove old compressor and all mounting brackets, including the belt tensioning bracket except for 8630 and 8640 tractors the original tensioner bracket must be reused.
- 2 Remove receiver drier and expansion valve, flush the entire system with a recommended A/C flush solvent (AP Air Part # 530-1060) and remove any excess flush left in the system with compressed air. Install a new receiver drier, expansion valve and any component in need of replacing at this time. This kit allows for the use of original hoses and belts. **Drain assembly oil from new compressor and add 9 oz. of Pag or Ester (100 or 150 viscosity) oil throughout the system. For example put 5 oz. in compressor and 4 oz. in condenser.**
- 3 Install the new belt tensioning bracket using the 3/8" x 1" bolt, do not tighten at this time.
- 4 Bolt the 2 new compressor mounting brackets to the bottom side of the compressor using the 3/8" x 1 1/4" bolts and nuts included, the oil fill plug should be on top (refer to the picture above). Both brackets bolt to the backside of the compressor mounting ears.
- 5 Check the compressor drive belt, replace if necessary, this kit does allow for the use of the original belt.
- 6 Install the compressor assembly using the original front pivot 1/2" bolt. Install belt on compressor, use the 3/8" x 1 1/4" bolt and nut and attach the tensioner bracket to the compressor. Tighten compressor belt and all mounting bolts at this time.
- 7 Install hi-side and lo-side compressor hoses to the new compressor using the aluminum extension manifold with pressure switch port facing up (refer to picture above). Secure the new manifold and hoses to the new compressor using the M10 x 120 bolt, lock washer and hold down plate provided in the kit. If you have an early 30 Series tractor using the double service valve you will have to update to the newer style A/C hoses or use the shorter bolt provided in the kit to mount service valve to compressor manifold and compressor.
- 8 Install the new hi and low pressure cut out switches on the manifold, (220-415 on suction/low side & 220-516 on discharge/high side of compressor). Install the new Pressure Switch Wiring Harness to the switches and attach one of the leads to the compressor coil wire. Remove the yellow wire for the thermal limiter fuse holder and attach to the remaining wire on the pressure switch harness. Discard the thermal limiter fuse holder. Remove the valve cores from the R12 charge ports and install the new R134a retrofit adapters.
- 9 Vacuum down the system with an adequate vacuum pump for at least 1 hour to remove the air and any moisture trapped in the system. Recharge with approximately 2.75lbs.(44oz.) to 3.25lbs.(52oz.) Of R134a refrigerant.
Charge amounts may vary with conditions and equipment applications.

CONVERSION CHART
lbs. to oz. (multiply lbs x 16)
lbs. to kgs. (multiply lbs x 0.45)