



### **Turbo Trac Installation**

#### **Step One: Removal of Existing OEM components**

Begin by removing all existing OEM front belt systems from your engine except the harmonic balancer.

- Disconnect the positive and negative battery cables
- Remove belts and fan
- Remove A/C compressor and alternator
- Remove all mounting brackets for the A/C compressor and alternator
- Drain radiator and remove hoses
- Remove Water pump – be sure to clean engine block of all remaining gaskets
- Remove EGR valve if applicable

***Note: Loctite should be used on hardware.***

#### **Step Two: Installation of Crankshaft Pulley**

Attach the crankshaft pulley onto the harmonic balancer using the (1) 16mm x 2.0 x 120mm bolts and flat washer, torque crank bolt to 240 ft/lb. ***This is extreme pressure and caution should be used.***

#### **Step Three: Mounting of Main Bracket Assembly's and Water Pump**

Insert the (1) 8mm x 80 stud into the furthest most hole on the drivers side of the motor so it extends out no further than 2 3/4" from block surface.

Install (3) 8mm x 160mm bolts, with A-N washers, thru the Compressor Main Plate, then install the (3) spacers behind the Compressor Main Plate and thru the passenger's side of the water pump. Remembering the gaskets, mount the water pump onto the block. ***Do not tighten yet; just start the bolts to hold everything in place.***

Install (2) 8mm x 160mm bolts, with A-N washers, thru the Alternator Main Plate into the (2) 5/16" diameter holes. Then add the (2) spacers behind the Alternator Main Plate and place onto water pump. ***Again, do not tighten yet; just start the bolts to hold everything in place.***

Install the hex adaptor onto the stud on the driver's side that was installed earlier and tighten.

#### **Step Four: Mounting of Alternator**

Using the (1) 3/8 -16 x 3" bolt, with A-N flat washer, first thru the main plate then thru the 3/8" hole in the alternator and thread into the hex adaptor. Install the 5/16 -18 x 1 1/4" bolt, through adjuster slot using an A-N flat washer.

***Note: Charging system must be properly wired to operate with a one-wire internally regulated alternator.***

#### **Step Five: Mounting of Compressor**

Using the (2) 8mm x 25mm bolts and (2) A-N flat washers mount the compressor to the main bracket. Install the (1) 10mm x 45mm bolt, and A-N flat washer thru the bushing on the bottom rear mount and into the water pump.

*(Compressor Oil: Although the compressor is supplied with oil, the level may not be correct for the entire system. Consult the instruction manual of the air conditioning unit for proper levels and system charging procedures.)*

***Do Not connect compressor clutch wire without the hoses connected and the system charged – Serious damage will occur to the compressor.***

### **Step Six: Mounting of Power Steering**

Install the Power Steering Mounting Plate by first installing (3) 5/16 x 1½" bolts with A-N washers thru the corresponding (3) holes in the Alternator Main Plate. Then add the spacer. ***Note: make sure the radius on the outside of the spacer matches the radius on the Alternator Main Plate.*** Next install the Power Steering Mounting Plate behind the spacer and tighten the (3) 5/16 bolts. Using the (3) 8mm x 25mm bolts and (3) A-N flat washers mount the power steering pump to the mount bracket. Make sure the pump is behind the mounting plate, (there are cut outs for the washers).

Mount the pulley to the hub using (6) 1/4-20 x ½" bolts and (6) A-N flat washers.

### **Step Seven: Mounting of Water Pump Pulley and Belt**

Using the (4) 5/16 - 24 x ¾" bolts and A-N flat washers, mount the water pump pulley onto the water pump at the same time installing the belt. ***This is done to make an easier installation without marking up the other pulleys.***

Pull adequate tension on the belt and tighten all bolts.

Reinstall radiator and fan. Refill cooling system with proper mix of water and coolant.

