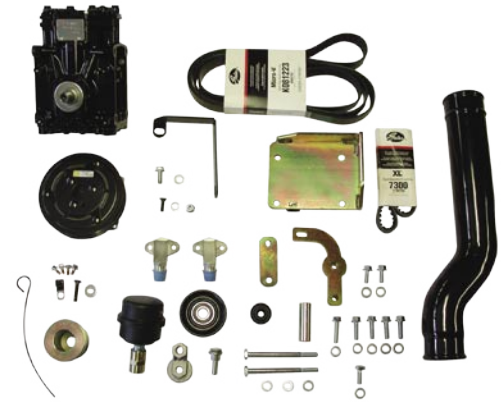
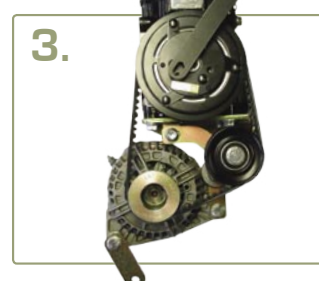
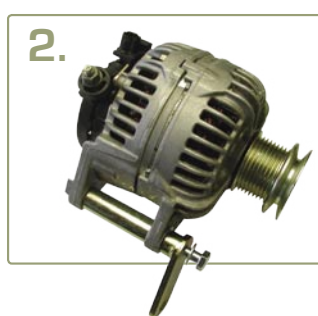
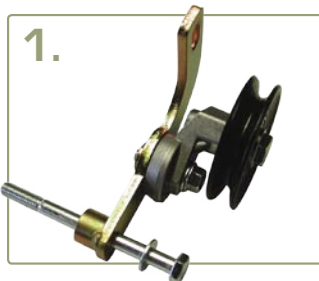


# KILBY ENTERPRISES

Installation instructions for the KE-3100

1. Disconnect the batteries
2. Remove air box assembly
3. Remove serpentine belt using a 1/2" drive ratchet and remove the belt tensioner to remove the belt.
4. Replace the belt and tensioner assembly with the belt provided in the kit but do not wrap serpentine belt around pulleys yet.
5. Disconnect the generator wires. Remove the generator, generator bracket and lifting ring. Install the York mount re-using three M10x25mm OEM bolts and one supplied M10x25mm bolt. Torque bolts to 30 ft. lbs.
6. Install the V-groove clutch on the York following the instructions included with the clutch. Install compressor on mounting bracket using four 3/8x1.25" Flange Head bolts and four flat washers. Route the wires under the compressor bracket and secure with metal wire loom tab. You may have to move the tab so it aligns with the hole correctly. Re-use one OEM bolt to secure the wire loom.
7. Replace the generator pulley with the combo pulley supplied in the kit.
8. Install the generator starting with the driver's side first. The generator will be rotated clockwise compared to the stock configuration and will now have a 4 o'clock and 8 o'clock arrangement. Use one M10x120mm bolt, flat washer and curved bracket shown in the diagram. [See picture 1] Hold the generator mounting ears over the pivot point and install the hardware as shown in the diagram. Don't tighten the bolt yet. I know, it's a tight fit but it can be done. NOTE: Use the 2-5/8" spacer to check the distances between both sets of generator ears. Each set has a threaded nut that presses into the rear ear. If the spacer doesn't fit, use an M10 bolt and gently tap the bolt while supporting the rear ear to press the nut outward.
9. On the passenger side, use one M10x120mm bolt, flat washer and straight bracket. Slide the bolt through the bracket and through the first mounting ear of the generator. Once the bolt is in place, insert the 2-5/8" spacer between the generator ears. [See picture 2] Tighten both M10 bolts to 30 ft. lbs.
10. Install the new serpentine belt.
11. Install new intercooler tube. Push the tube towards the turbo to gain adequate clearance to the generator mount. It will be a close fit but should have 1/4" - 1/2" clearance.
12. Install the eccentric for the V-belt using one 3/8-1.5" Flange Head bolt and flat washer. Do not tighten the bolt. Install the pulley using the special shoulder bolt provided in the kit and tighten. Put the v-belt on the generator, eccentric pulley and front v-groove on the compressor. Tighten the belt and eccentric bolt at this time.
13. Re-connect all generator wires. Double check all connections and wire routing for any possible problems and correct if needed.
14. 2004.5-UP year models trucks should have a two-piece fan shroud. The rear shroud was bolted to the engine. In this application, use the supplied bracket and hardware to attach the fan shroud to the driver's side of the compressor using the 3/8-16 x 7/8" Flange Head bolt and flat washer. Starting with the 5/16" cap screw, pass the screw into the fan shroud with the head towards the clutch, then through the bracket. Add the 5/16" flat washer and 5/16" flange nut to secure the bracket to the shroud.
15. Use the rubber plug provided to plug the filter minder hole in the stock air box. If you want to keep the filter minder installed, you will have to drill a new 11/16" hole in a suitable location and re-install the filter minder.

You have completed the compressor installation!



## Brackets, Belts and Such:

- (1) York Bracket
- (1) Straight Generator Bracket
- (1) Curved Generator Bracket
- (1) Gates K081223 Serpentine Belt
- (1) Gates 7300 V-belt
- (1) Intercooler Tube
- (1) Fan Shroud Bracket (04.5-UP)
- (1) Generator Combo Pulley 061-004B

## Hardware:

- (1) 2-5/8" Spacer
- (1) 3" V-Groove Idler Pulley
- (1) 1-5/8" Eccentric
- (1) 7/16" Shoulder Bolt
- (1) 5/16-18 x 1" Flat Head Cap Screw
- (1) 5/16" Flat Washer
- (1) 5/16" Flange Nut
- (3) 3/8-16 x 7/8" Flange Head Bolts
- (4) 3/8-16 x 1.25" Flange Head Bolt
- (1) 3/8-16 x 1.5" Flange Head Bolt
- (11) 3/8" Flat Washers
- (1) 5255216 Rubber Plug
- (1) M10 x 25MM Hex Head Bolt
- (2) M10 x 120MM Hex Head Bolts
- (1) KE-3100 Instruction Sheet

Thanks for buying a Kilby Enterprises product!