



# PX-833 Alternator

## Aftermarket Installation Instructions

1. Turn off the main power switch
2. Install the pulley on the alternator shaft and torque the pulley nut to 200-210 lb-ft. Position the PX-833 alternator on the alternator-mounting bracket and align the mounting holes. Secure the alternator to the mounting bracket using two longer mounting bolts (2") on the pulley-end of the alternator and torque to 65 - 75 lb-ft. Install the shorter mounting bolts (1.5") in the stator frame end of the alternator and torque to 55 - 65 lb-ft.
- \* **CAUTION** – It is important to match the correct length bolts to the correct locations in the alternator. If the longer 2" mounting bolts are used in the stator-mounting frame, they will bottom out causing insufficient clamping force and serious damage to the stator mounting frame will occur.
3. When using the optional PX-8150 cable support bracket, attach it to the alternator rear housing. Route the battery positive (B+) cable through the support bracket and attach the cable to the alternator B+ terminal. Torque the terminal nut to 30 to 35 lb-ft. Attach the top portion of the cable clamp and torque bolts to 16 to 20 Inch lbs.
4. Connect the battery minus (B-) cable to the threaded hole on the front housing of the alternator near the fan guard. Torque the B - bolt to 25-35 lb-ft. Attach the Field and Relay terminal wires to the corresponding terminals on the alternator. Torque each nut to 60-70 lb-in. (*Note- the bottom nut must be held while tightening the outer nut.*)
5. Connect the alternator harness to the 50VR external regulator using ¼ inch ring terminals and attach the terminals using M4 screws torque to 16 lb-in. Refer to the Delco Remy 50VR installation recommendations.
6. Install the alternator drive belt and reconnect the main power switch. Start the engine and measure voltage levels at the alternator and at the battery. The voltage drop between the alternator and the battery should not exceed .3V
7. PennTex recommends that the voltage setting for the 50VR regulator used with the PX-833 series alternator for OEM applications is in accordance with the manufacturer of the 8D batteries used in this application. Operate the engine for several minutes until the alternator stabilizes and measure voltage levels again.