







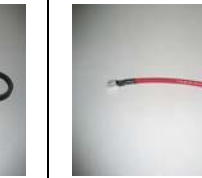




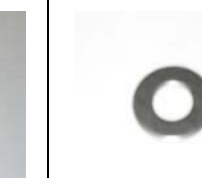



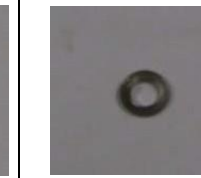

RigMaster APU

25 Amp. to 60 Amp. Alternator Upgrade

Important Notice: If the serial number of the RigMaster Auxiliary Power Unit is below 4492 which includes models RPM 110 and RMP P10-4 you will first need to install the larger engine fan kit part number RP15-001K (mandatory). This kit would be required to increase air flow as additional engine load will be applied by the alternator upgrade.

Parts List

The following parts are required for the 25 Amp. to 60 Amp. Alternator Upgrade:

				
Top Bracket RP10-001-54	60A Alternator 185046470	Bottom Bracket RP10-001-55	Fan Belt 10A0815	Battery Cable RP7-041
				
Alternator Cable RP13-010	Lock Washer RP12-061	Washer RP12-043	Pivot Bolt RP12-136	Washer RP12-089
				
Adj. Bolt RP12-130	Lock Washer RP12-090	Cable Nut RP12-139	Cable Lock Washer RP12-002	Crankshaft Pulley 115398400

Note 1: All parts must be ordered separately, they are not supplied as a kit.

Disassembly

You will need to disassemble the following parts in the order listed below:

1. Disconnect the RigMaster battery cables from the truck batteries.
2. Remove right side panel.
3. Loosen alternator adjustment bolt and lower pivot bolt to remove fan belt.
4. Disconnect 4 pin regulator harness between regulator and alternator.
5. Remove pivot bolt and adjustment bolt hardware. (See Note 2).
6. Remove 25 Amp. alternator.
7. Remove upper adjustment bracket and lower engine mounting bolts.
8. Disconnect 6 pin regulator harness at the regulator; remove connections from the battery posts, and cut yellow alternator wire at the connector. (See Figure 3).
9. Remove regulator from back plate. (Optional).

Note 2: You will need to reuse the adjustment bracket mounting bolt from the 25 Amp. alternator assembly to mount new top bracket (RP10-001-54) and the engine mounting bolts for the new bottom bracket (RP10-001-55). See Figures below.

Figure 1 – Alternator



Reuse engine mount bolts.

Figure 2 – Alternator (side view)



Reuse top bracket bolt.

Installation

1. Install new top bracket (RP10-001-54) and bottom bracket (RP10-001-55) as shown in Figures 1 and 2 above.
2. Remove old Crankshaft pulley that is currently on the engine and install Crankshaft pulley (115398400) with same hardware from pulley being removed. Note the use of a pulley puller may need to be used to remove old crankshaft pulley.
3. Install alternator (185046470) to bottom bracket (RP10-001-55) with pivot bolt (RP12-136), lock washer (RP12-061), and washer (RP12-043). (See Figure 4).
4. Install adjustment bolt (RP12-130), lock washer (RP12-090), and washer (RP12-089) to top bracket (RP10-001-54). (See Figure 4).
5. Connect battery cable (RP7-041), lock washer (RP12-002), and nut (RP12-139) to alternator battery post and battery post on back plate.
6. Connect alternator cable (RP13-010) to alternator and join opposite end to yellow wire on main harness using electrical butt connectors. (See Figure 5).

Figure 3 – Crankshaft Pulley



Centre terminal of alternator should receive excite wire from run solenoid (battery 12V from power module).

7. Install belt (10A0815) and make belt adjustment. (See Note 3).
8. Attach battery cables to truck batteries.
9. Run RigMaster unit and check charging voltage. (Should be 13.0v -14.8v).

Note 3: Belt should have no more than 3/16 in. (5mm) deflection when the engine is running.

Figure 4 – Alternator (side view)

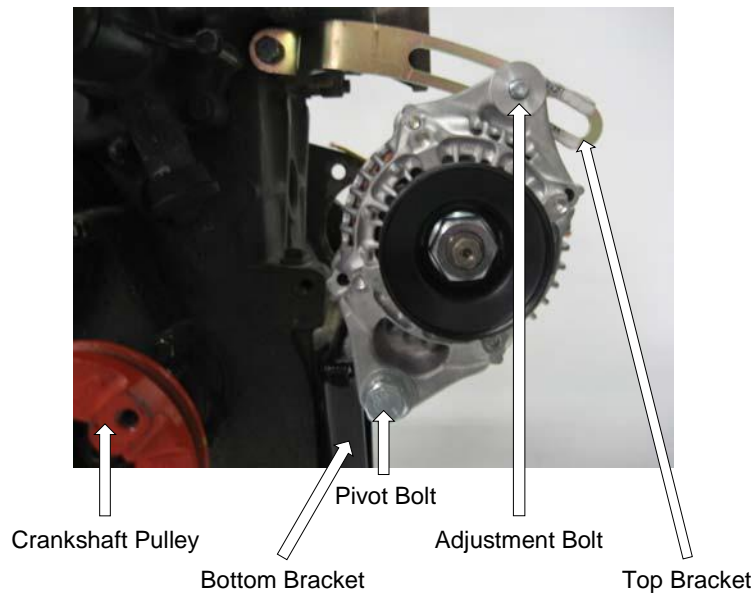
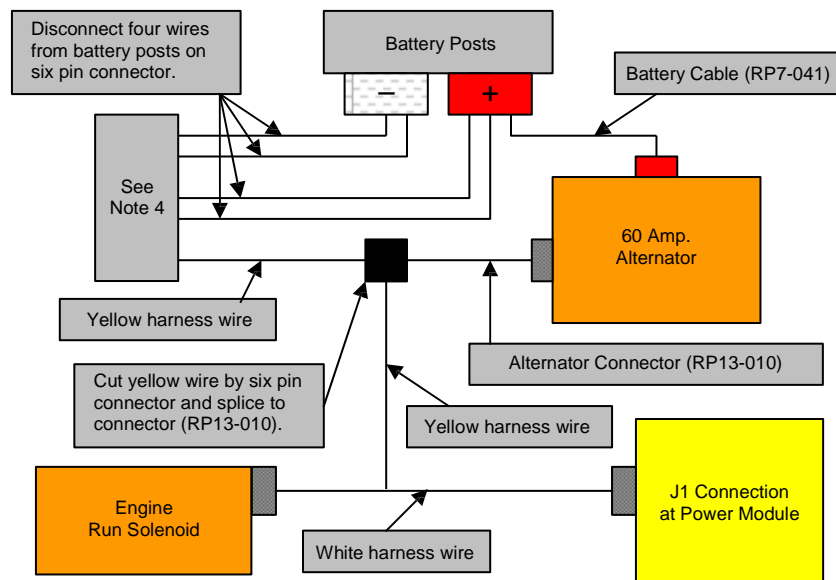


Figure 5 – Alternator Wiring Diagram



Note 4: The six pin connector to the regulator will not be used and should be discarded.