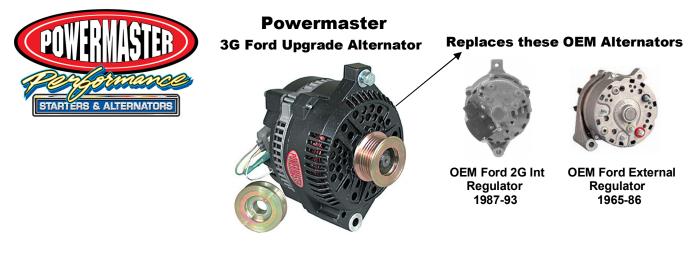
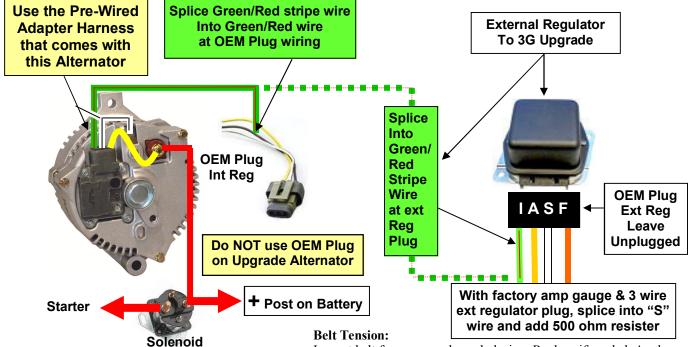
Wiring Instructions Powermaster Ford 3G Alternator

Alternator P/N's 37759 47757 47759 57759 Adapter harness included



Wiring Instructions from Internal & External Regulator to 3G Upgrade



READ ALL INSTRUCTIONS IN BOX!

Charge Wires: (<u>OEM Battery Plug-in NOT Used</u>) 130 Amp Alt. use 4 gauge charge cable 200 Amp Alt. use 2 gauge charge cable

Alternator Ground:

Many mounting brackets are powder coated or plated. The alternator can not ground properly with these coatings. Check ground resistance or just run a ground from the alternator to engine. Using at least an 8 gauge wire.

Battery must be grounded to engine block.

Wire Connections:

Be sure all terminals are crimped and soldered, and connections are clean and tight.

Carbureted Engines w/Electric Choke:

Connect choke wire to white/black stripe wire at alt. plug

Inspect belt for wear cracks and glazing. Replace if needed. Apply leverage to front housing only. Tighten belt, then check deflection normally 3/8-1/2". Place a pull handle and socket on pulley nut and turn clock-wise, try to make pulley slip. If pulley slips, re-tighten belt.. Recheck belt tension after running for 15 minutes. **V-belts will slip unless they are very tight.**

Battery Condition:

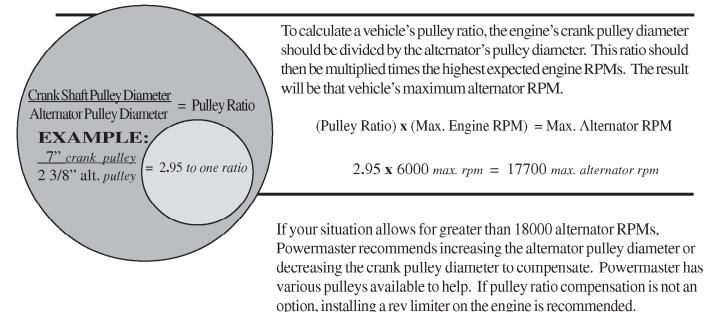
Charge and load test battery before starting engine. The alternator isn't designed to recharge a weak or defective battery. Alternator damage can occur.

Never disconnect the battery with engine running. High voltage spikes will occur that damage the alternator and other components.



This alternator should not be allowed to exceed 18000 RPMs at any time. Alternator components are not designed to withstand the increased stress resulting from excessive RPMs.

Powermaster recommends that you calculate your pulley ratio and multiply it times your highest expected engine RPM to determine if your alternator will operate within the acceptable range.



Excessive RPMs can cause the alternator fan to flex and contact the drive belt. This could cause property damage and/or personal injury. In addition to RPMs, there are other factors that will substantially increase the likelihood of alternator fan-to-belt contact.

ALTERNATOR BRACKET ALIGNMENT AND STABILITY:

Alternator brackets can be misaligned in such a way that the clearance between the alternator fan and belt is reduced. Loose or nonrigid brackets can also increase the likelihood of contact.

, WORN OR LOOSE BELTS:

Belts that allow for side-to-side movement or deflection will decrease the effective gap between the fan and belt and increase the likelihood of contact.

IMPROPER BELTS:

Powermaster supplied V-type pulleys are designed to accommodate up to a 10mm or 3/8" belt. Larger belts will not seat into the pulley groove properly and will increase the likelihood of belt-to-fan contact. If the application requires a belt of greater than 10mm or 3/8" width, Powermaster recommends the original equipment pulley be used instead of the supplied pulley.

NOTE: Powermaster is not responsible for vehicle damage or any other damage resulting from improper use of this product.

