

FORD 3-G

The purpose of this modification is to allow the MOBI-ARC's PWM regulator to control the alternator. The Ford's regulator will be disabled while the control unit is active. By removing the 10-Pin wire harness from the back of the control unit and connecting the BYPASS plug, the Ford's regulator is restored to its original working condition allowing standard regulation of the alternator without the control unit present. Read through these pages before undertaking modification. People not mechanically inclined may choose to have a local alternator re-builder facilitate this modification.



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(2) thread cutting screws, 85-1202



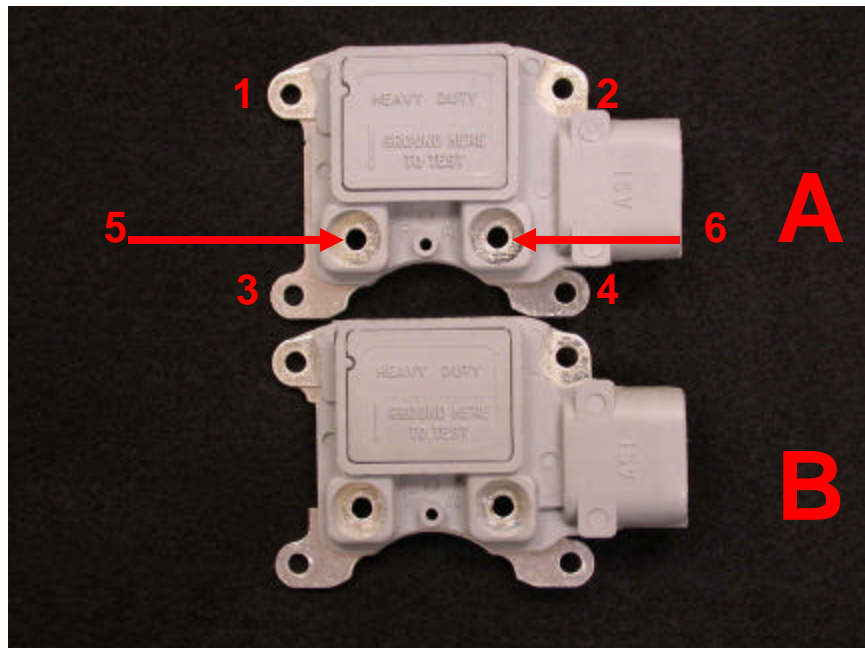
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Repair Harness 46-2802



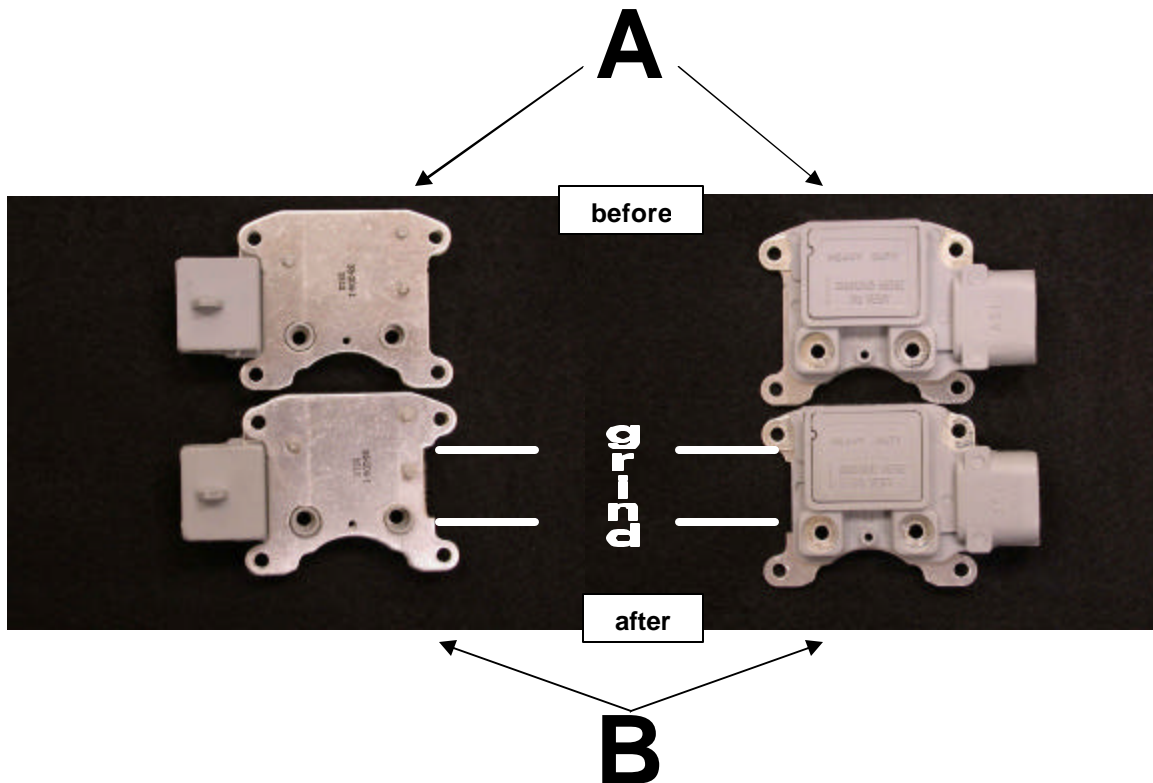
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Brush Holder Assembly 39-207, modified with Green & Yellow wires attached



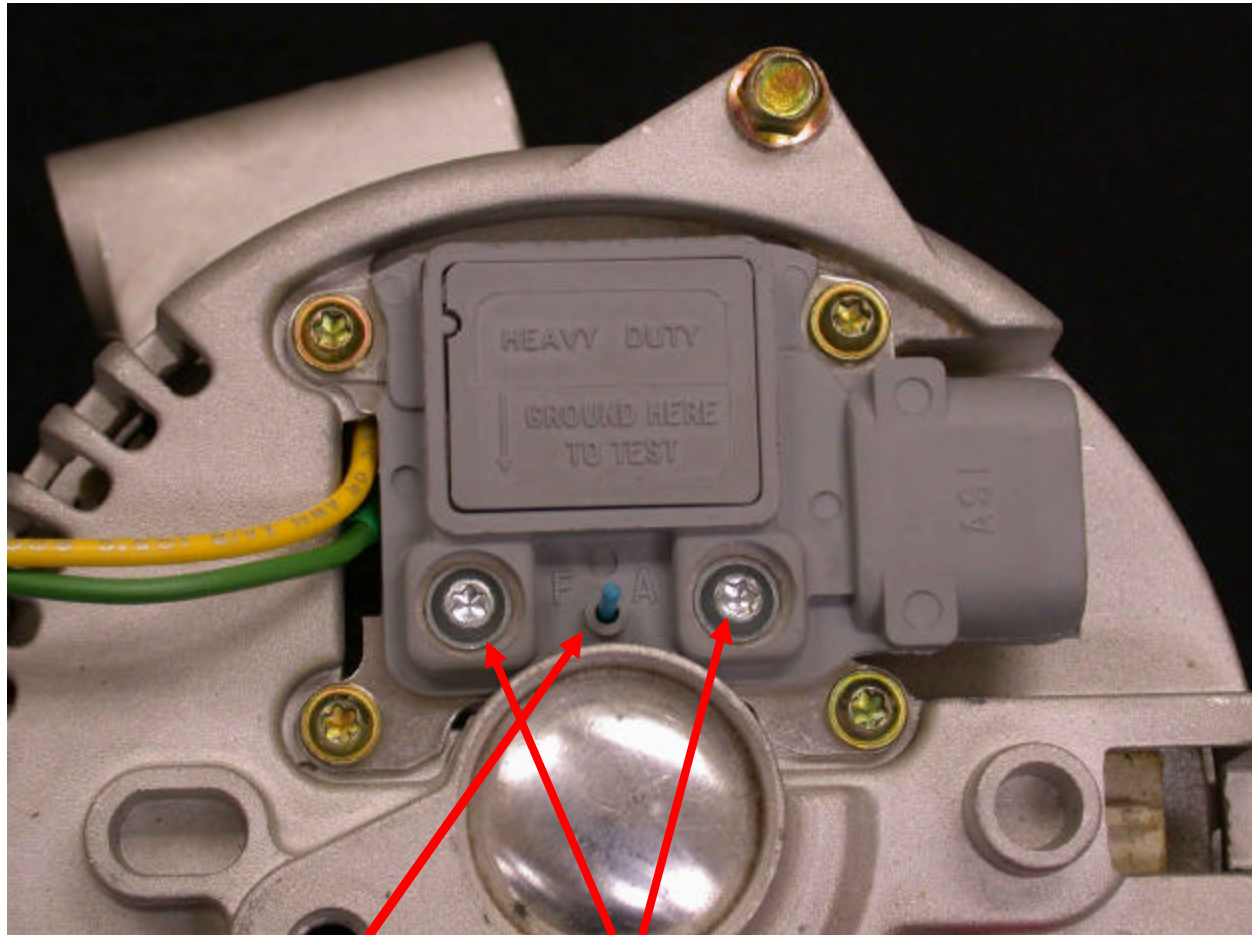
The square regulator in the picture above is the regulator found in the Ford 3-G alternator. The removal of the regulator will require a torx bit to unscrew the four retention screws 1,2,3,and 4. Once the regulator is removed, remove the brush-holder module by unscrewing screws 5 and 6. The brush-holder module will be replaced by the brush-holder module supplied with your MOBI-ARC. However, before installing the MOBI brush-holder module using the provided thread cutting screws (2), the regulator casing must be ground in order to provide passage for the green and yellow wires.

Using a grinding wheel, grinder, Dremel, file, or similar type of tool, remove material from the regulator casing as illustrated in picture below. Regulator "A" is before grinding, regulator "B" is after grinding. Please be cautious: if enough material is not removed, when the regulator is installed, the green and yellow wires will be pinched between the regulator and casing and will short. Remove too much material and the regulator may be compromised.



Once you grind the regulator as illustrated, install the provided MOBI brush-holder module. Use the provided thread-cutting screws in holes 5 and 6 to mount the brush-holder assembly.

Replace regulator in alternator and replace mounting screws. Be sure green and yellow wires are not pinched between the regulator and the housing. Remove brush retention pin!!!!



Thread-cutting screws

Remove brush retention pin

Modification is complete. Please refer to the wiring diagrams for connection to the MOBI-ARC Control Unit.

Diagram #6010

On regulator: I Alternator warning light or nothing
 (if not on a Ford) S Stator (stator connector on alternator)
 A Switched 12 volts

If the Ford 3-G alternator is not installed on a vehicle with a 3-G alternator harness, a repair harness has been provided. Join the "I" and "A" wires together and connect to switched 12 volts. The "S" wire (located in the middle) is not used.

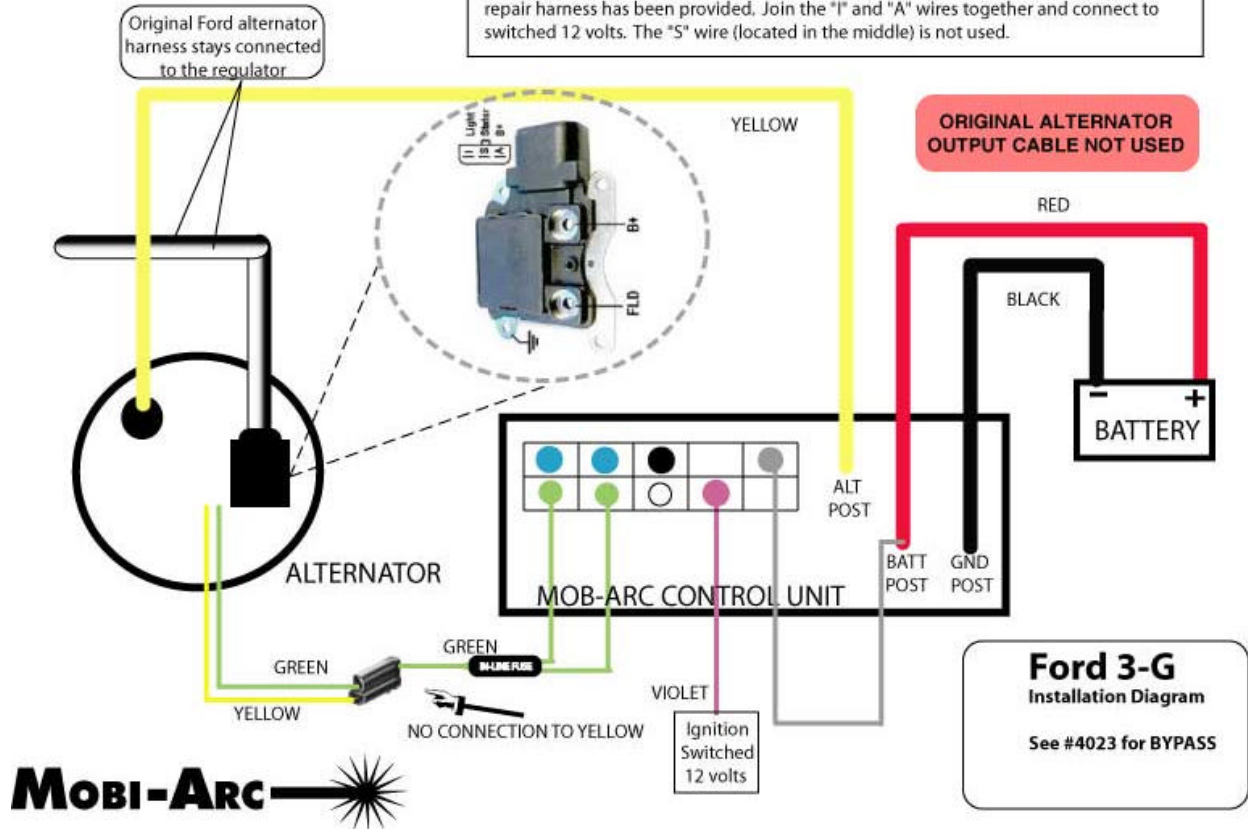


Diagram #6010-B

