

1986-1993 SVE 130/200 Amp Alternator Install

STEP 1: REMOVE STOCK ALTERNATOR

1. Disconnect the battery
2. Remove the serpentine drive belt (Fig 1.1)
3. Unplug the voltage regulator connector (Fig 1.2)
4. Unplug the stator connector
5. Remove the two attaching bolts that hold the alternator to the bracket
6. Remove the stock alternator from your Mustang (Fig 1.3)



STEP 2: PREPARE WIRING FOR 130/200 AMP ALTERNATOR

1. Trim back the harness tape and wire loom (Fig 2.1)
2. Cut the two black with orange stripe wires from the stock stator plug (Fig 2.1)
3. Cut the yellow wire and the green wire from the regulator plug (Fig 2.1)
4. Discard the old regulator and stator plugs (This pic illustrates the looped white/black stator wire quite well) (Fig 2.1)
5. Trim the new stator plug down and strip the wire end (Fig 2.2)
6. Do the same to the white wire on the center of the new regulator plug
7. Connect the new stator plug to the new voltage regulator plug with one of the supplied butt crimp connectors (Fig 2.3)
8. Heat the connector insulation to seal it off (Fig 2.3)
9. Trim and strip the yellow wire and the green wire on the new regulator connector (Fig 2.3)
10. Do the same on the harness side (Fig 2.3)
11. Connect the yellow to yellow and green to green using the supplied butt crimp connectors (Fig 2.3)
12. Heat the connector insulation to seal them off (Fig 2.3)
13. Strip the ends of the two black with orange stripe wires
14. Crimp on the 2 supplied ring terminals to the two black with orange stripe wires
15. Wrap the harness with quality tape like 3M super 33+

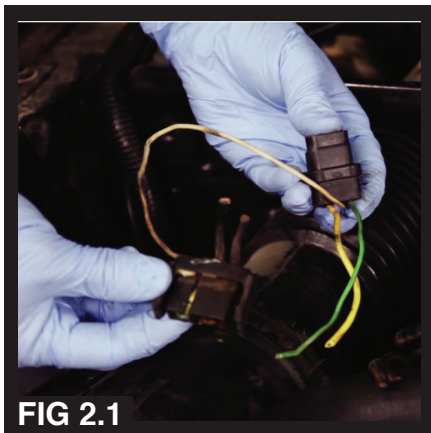


FIG 2.1



FIG 2.2



FIG 2.3

STEP 3: INSTALL SVE ALTERNATOR

1. Slide the alternator into the bracket and loosely install the lower retaining bolt (Fig 3.1)
2. Rotate the alternator over and mark the bracket where the alternator is touching it (Fig 3.1)
3. Remove the alternator and cut the bracket along your marks (Fig 3.2)
4. Re-install the alternator and lower bolt. Install the supplied new upper retaining bolt and nut. Tighten both the upper and the lower bolts (Fig 3.3)
5. For 130amp not using 4ga power wire: Slide the two ring terminals onto the power lug of the alternator and install the retaining nut
6. For 130 or 200amp using 4ga power wire: Slide the two ring terminals onto the power lug of the alternator, but do not install the retaining nut yet. See step 6 of the 4ga power wire upgrade instruction
7. Connect the stator plug (Fig 3.3)
8. Connect the regulator plug (Fig 3.3)
9. Re-install the serpentine drive belt



FIG 3.1



FIG 3.2

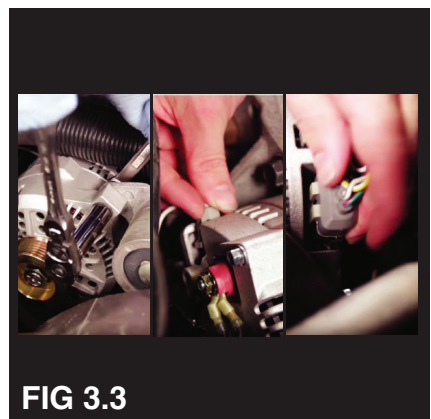


FIG 3.3



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STEP 4: INSTALL 4 GAUGE POWER WIRE

**** NOTE:** Install 4 gauge power wire at this time before reconnecting battery and testing alternator operation. 4ga power wire upgrade is strongly recommended for 130 amp alternators and is required for 200 amp alternators.

1. Disconnect the battery if not already disconnected.
2. Remove your air box
3. Remove your two upper radiator brackets
4. Remove the retaining nut from the alternator power wires if not already removed.
5. Lay out the upgrade power wire with the fuse holder near the battery (Fig 4.1)
6. Slide the 4 gauge ring eye over the alternator terminal along with the factory black/orange power wires and reattach the retaining nut
7. Start zip tying the new power wire running along the old power wire harness. (Fig 4.2)
8. Position your fuse holder right over the battery, and attach it using the two supplied retaining screws
9. Remove the nut off the starter solenoid.
10. Connect the remaining ring terminal of the new power wire and re-install the nut (Fig 4.3)
11. Reattach your upper radiator brackets
12. Re-install your air box
13. Reconnect your battery and test the operation



FIG 4.1

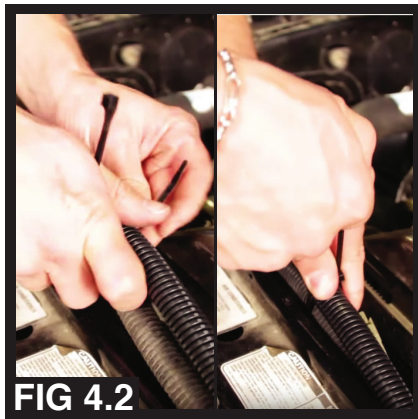


FIG 4.2



FIG 4.3

Once everything was reassembled, we fired up the car and checked for proper voltage (Fig 5.1)

This was done with a volt meter while the a/c was running and the headlights on bright

The alternator was able to hold a very good 14.5 volts at idle (Fig 5.2)



FIG 5.1



FIG 5.2

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