

## Cowl Gauge Concepts Installation Instructions: 83-93 Mustangs

\*\*For wiper less installation: Lines and electrical wiring may be pulled into gauges in any area of the firewall.

\*\*For installation with use of wipers: proceed as follows.



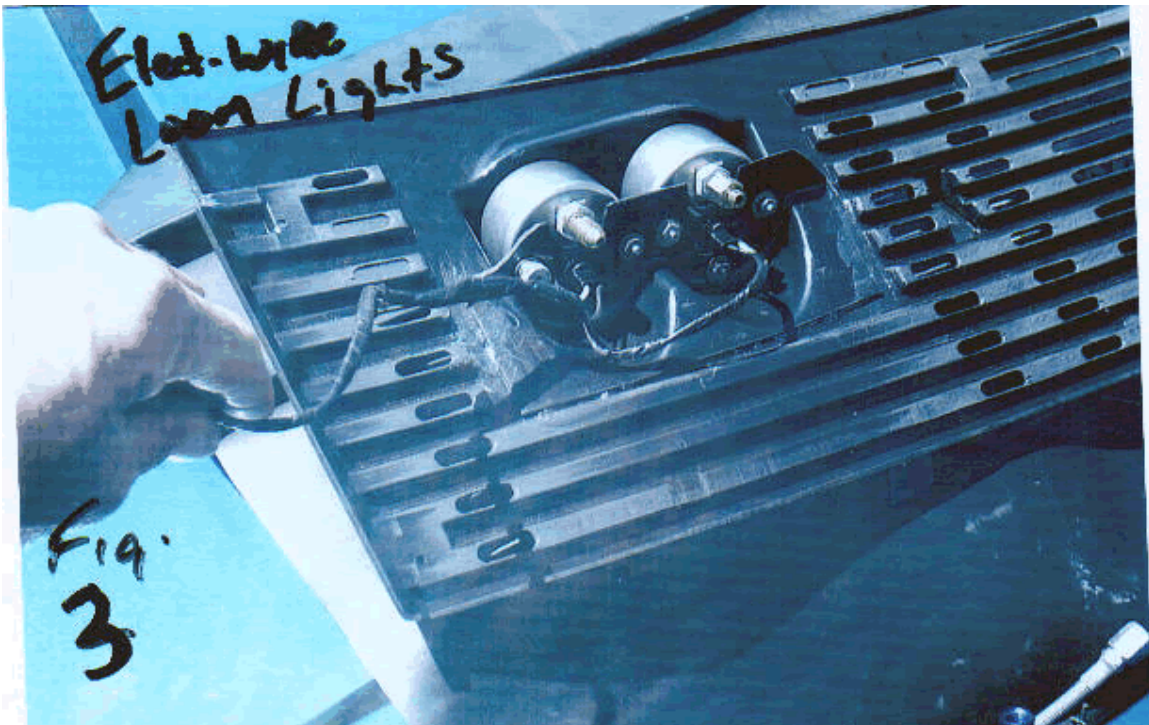
### 1. Remove existing cowl

Remove the existing cowl vent and drivers side wiper. Cut a 1 ¼ inch hole on the driver's side below the hood mount and above the body lip. This hole may be smaller depending on your application. A small die grinder with a burr works well.



**2. Install your gauges**

Install gauges into your new CGC cowl gauge panel. Place the panel on the car. View gauges from inside the vehicle and align them as necessary.



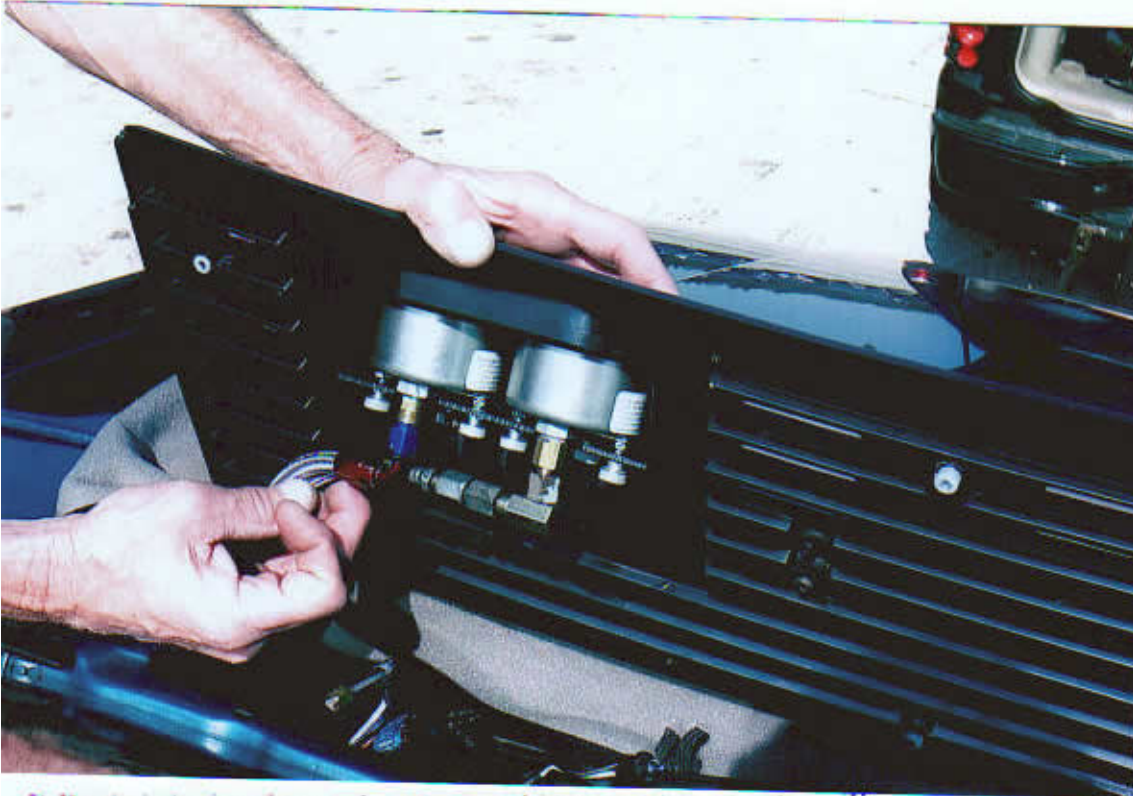
### 3. Prepare gauge wires for installation

Make a 1 piece wire loom for gauge lighting or electrical gauges. The loom should reach from the gauges approximately 1 inch out of the 1 ¼ inch hole. You may need more than one wire loom depending on your application.



### 4. Prepare fuel, oil lines for installation

Route your lines such as fuel, oil, etc, and wire loom through the 1 ¼ inch hole up between the wiper arms to the gauges. Pull enough line to easily connect to the gauges. The lines should have a 90 degree elbow to the gauges pointing toward the driver's side. Connect the lines and the wire loom to the gauges. Leaving some slack in the lines, and wire loom, connect the supply ends to the fuel supply, oil sending unit, electric supply and any other supply ends. Follow the gauge manufacturer's instructions when hooking up supply lines and wire loom. Start the engine and check for leaks. Make repairs or adjustments as necessary.



### **5. Connect to Gauges**

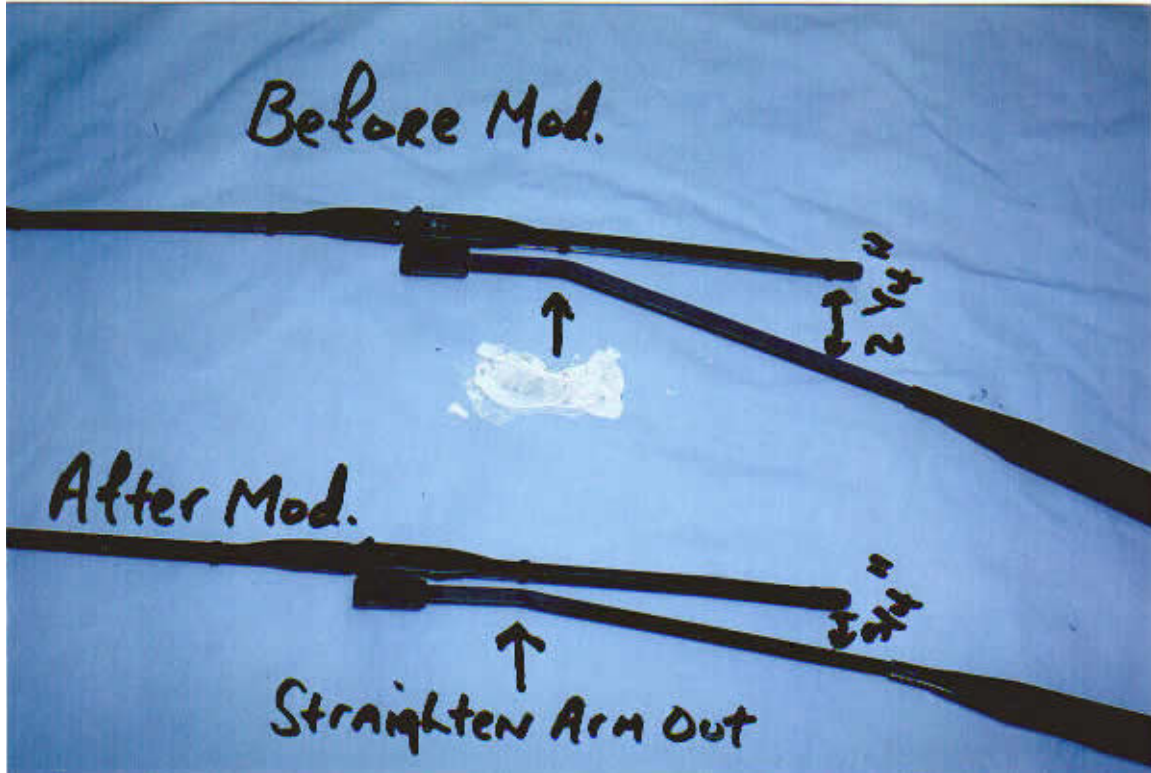
Begin bringing the cowl gauge panel into position, slowly pulling excess slack from the lines and electric wire loom. Review the gauges from inside the vehicle and re-align if necessary. Pull the remainder of slack into engine compartment. Leave the excess slack in lines and wire loom for easy future service of the cowl gauge panel. Turn wiper motor on and check for clean operation. Install the 6 cowl panel screws.

*Note the 90 degree fittings on the gauges.*

## Wiper Arm Modification

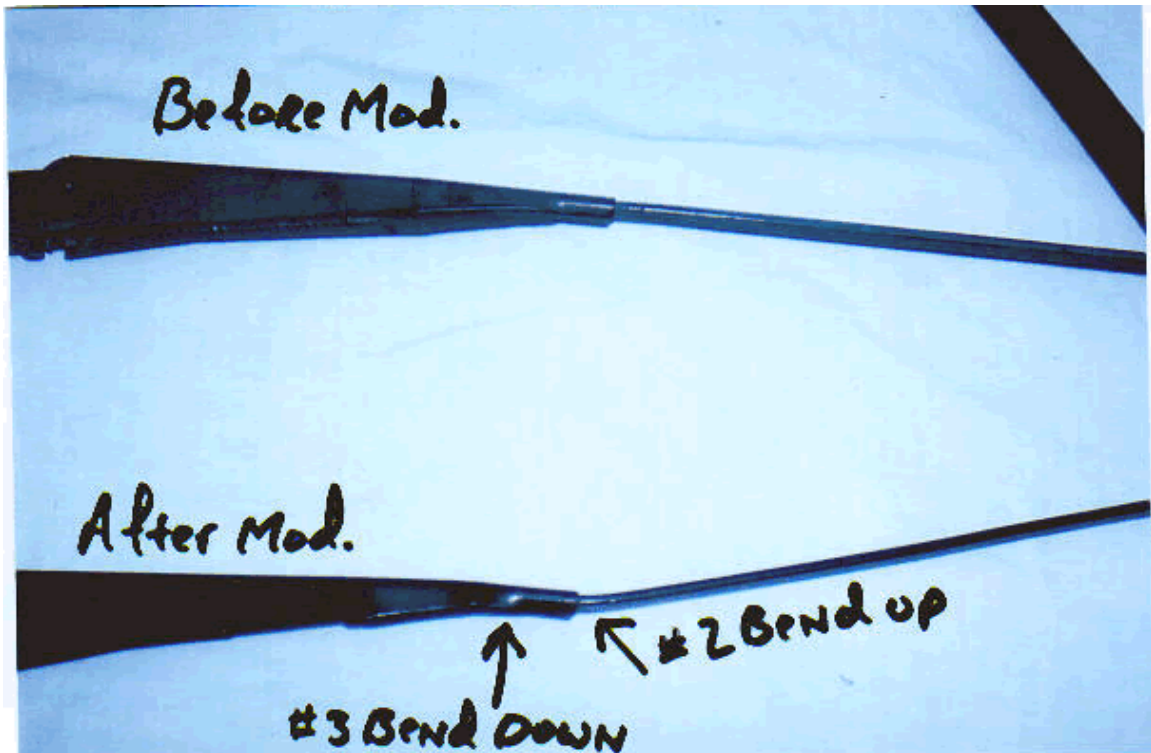
In order to achieve the maximum view of the gauges with the wiper blade in use, it is necessary to perform minor modifications to the wiper arm assembly.

\*\*\*Note: Use only stock wiper arm and blade assemblies. Aftermarket assemblies may be too big and bulky.



### 1. Wiper Arm Modification

Place the wiper arm in a vice and straighten out the bend in the arm as shown. The new distance from the arm to the blade should be  $\frac{3}{4}$  of an inch.

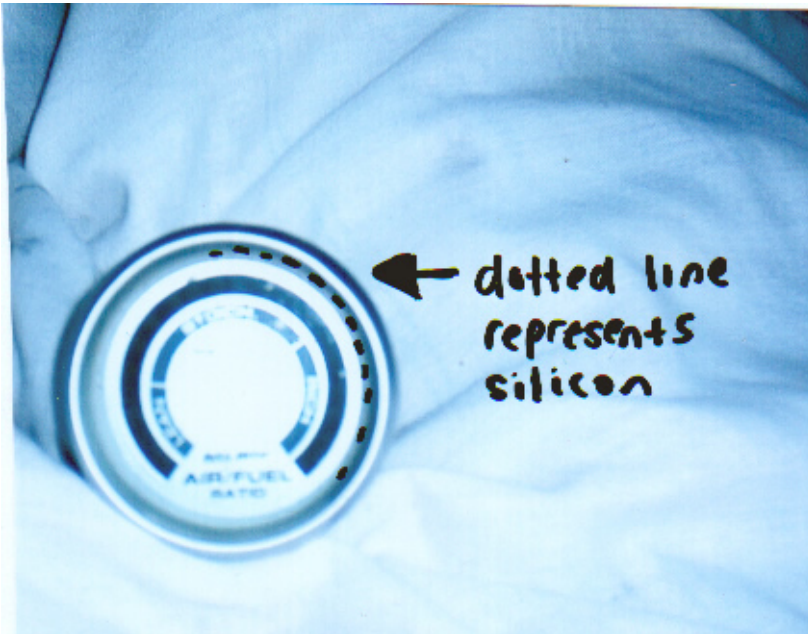


2. Reposition the arm in the vice and perform the 2<sup>nd</sup> bend as illustrated above. This bend pulls the arm in towards the bottom of the gauges.
3. Reposition the arm in the vice and perform the 3<sup>rd</sup> bend as shown. This bend adds tension back to the wiper blade at the windshield. Tweak out as necessary to get optimum viewing.



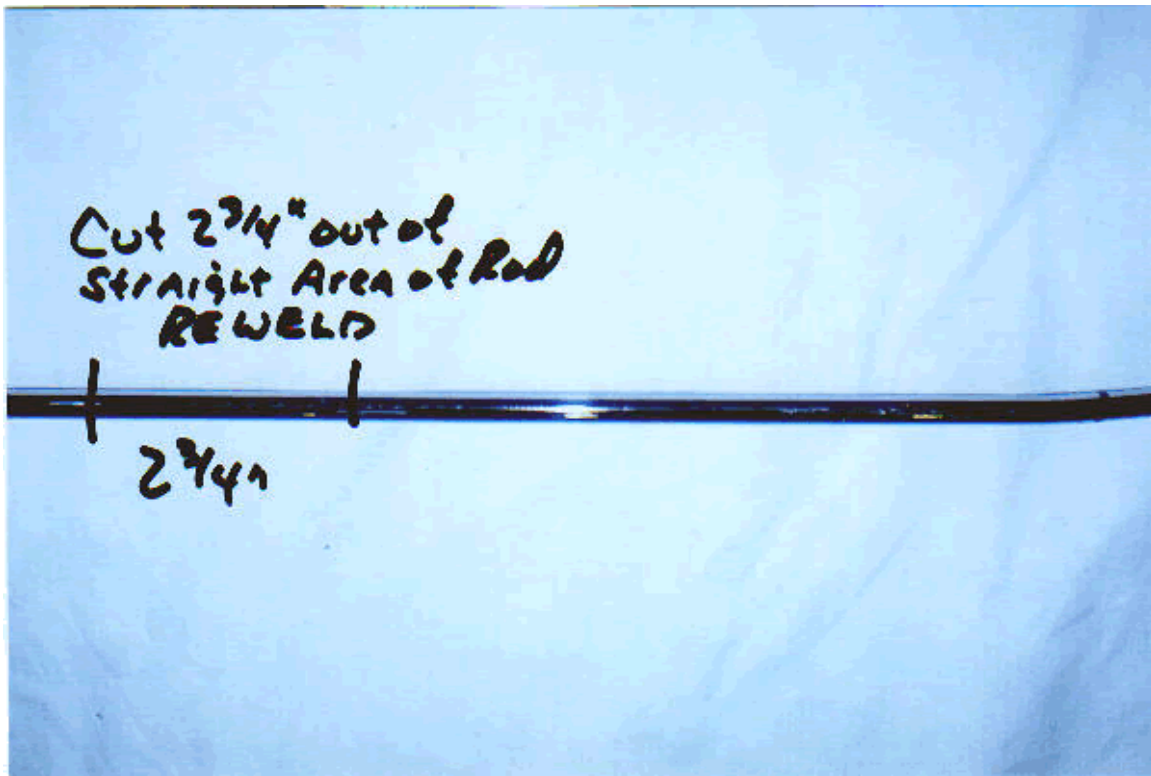
8. Install the wipers

Begin by making sure the wiper motor is in the off position. Install the driver's side wiper arm as low and as close to the cowl gauge panel as possible. Look under the wiper arm at the area that is where the arm runs close to the cowl gauge panel. Mark this area and notch the arm as needed for clean operation. As small electric grinder or air die grinder works well.

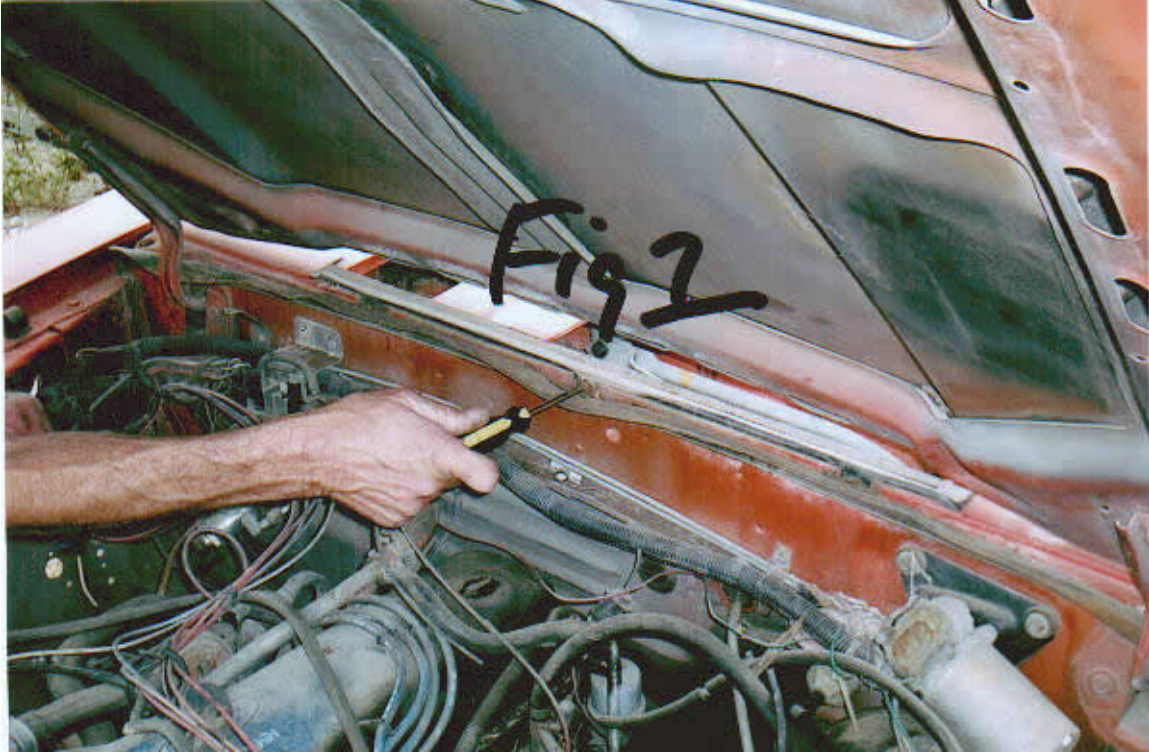


NOTE: \*\*\*CGC recommends when using any type of non-liquid filled gauge that a small bead of non-yellowing silicon be ran around the glass at the bezel area. This prevents moisture from entering gauge.





10. Due to numerous types of aftermarket hoods, some may run up on cowl gauge panel. Should this occur, the easy remedy is to remove your hood rod and make a 4 inch long mark on it. Cut out a section 2 3/4 long. Match the marks up and reweld the rod. This procedure should remedy any hood clearance problems.
11. When raising your hood, do it slowly while bringing the hood rod into place. Jamming or raising the hood higher than necessary may result in damage to the cowl gauge panel and gauges. Be aware of your clearances and advise any service techs performing work on your vehicle.



1. Remove existing cowl vent cover and trim strip in center of windshield.





2. Install the new CGC gauge panel on the car. Center the cowl around the wiper (Fig 2). Hold cowl down firmly and drill new mounting holes (Fig 3). Follow instructions for 83-93 for remainder of installation.