

INSTALLATION INSTRUCTIONS

102005 GAGE KIT (WHITE FACE) – 102006 GAGE KIT (BLACK FACE)

KNOCK GAGE INSTALLATION INSTRUCTIONS

FOR SUPERCHARGED 3800 APPLICATIONS

THE CASPER'S ELECTRONICS KNOCK GAGE REQUIRES THE USE OF AN ESC (ELECTRONIC SPARK CONTROL) MODULE (GM P/N 16051654) TO INTERPRET THE SIGNAL SEEN BY THE KNOCK SENSOR. FOR EVERY "KNOCK" THE SENSOR SEES, A LIGHT IS ADVANCED ON THE GAGE. THE LIGHT IS HELD FOR ABOUT 3 SECONDS AFTER WHICH THE GAGE RESETS TO THE "READY" STATE.

INSTALLING THE GAGE USING THE CASPER'S INSTALLATION KIT

STEP 1: INSTALL WIRING HARNESS PROVIDED BEGINNING UNDER THE DASH ON THE DRIVERS SIDE. RUN THE TAPED WIRES UP TO THE GAGE.

STEP 2: INSTALL KNOCK GAGE INTO STANDARD GAUGE POD (AVAILABLE FROM AFTERMARKET PARTS DISTRIBUTORS). INSTALL THE SWITCH AND CONNECT WIRING HARNESS TO TERMINALS AS DESCRIBED BELOW. (IT IS RECOMMENDED THAT THE KNOCK GAGE BE TURNED ON ONLY WHEN NEEDED). THE SWITCH CAN BE INSTALLED USING A 1/4" DRILL BIT.

A TERMINAL—BLACK WIRE

B TERMINAL—RED WIRE

C TERMINAL—YELLOW / BLACK

STEP 3: LOCATE THE KNOCK SENSOR UNDER THE REAR EXHAUST MANIFOLD. LOCATE EXTENSION HARNESS SHOWN IN **FIGURE 1**. ATTACH THE JUMPER HARNESS IN KIT IN BETWEEN THE CONNECTOR MARKED BY THE ARROW. RUN THIS WIRE INTO THE PASSENGER COMPARTMENT. (**NOTE:** THIS IS THE ONLY WIRE THAT NEEDS TO BE RUN INTO THE PASSENGER COMPARTMENT FROM THE ENGINE COMPARTMENT. SOME SUGGESTIONS ARE THROUGH THE WEATHER STRIPPING BETWEEN THE DOOR AND THE BODY OF THE CAR ON EITHER DRIVER OR PASSENGER SIDE OR THROUGH THE GROMMET LOCATED ABOVE THE BRAKE PEDAL.) THIS WIRE SHOULD BE RUN TO THE LOCATION OF THE ESC MODULE.

STEP 4: CONNECT ESC MODULE TO WIRING HARNESS. USE VELCRO PROVIDED TO SECURE ESC MODULE TO A CLEAN SMOOTH SURFACE UNDER DRIVERS SIDE DASH.

STEP 5: RUN RED WIRE (POSITIVE) TO FUSE BOX LOCATED BEHIND GLOVE COMPARTMENT. INSERT SPADE TERMINAL TO LOCATION 41 (HVAC CTRL) AS SHOWN IN **FIGURE 2**. THERE SHOULD BE NO FUSE IN LOCATION 41. IF THERE IS, FIND ANOTHER SWITCHED POSITIVE LEAD IN THE FUSE BOX.

STEP 6: ATTACH GROUND RING (BLACK WIRE) TO METAL SURFACE. BE SURE RING TERMINAL IS TOUCHING BARE METAL SO THAT A SOLID ELECTRICAL CONTACT IS MADE TO THE CHASSIS OF THE CAR.

STEP 7: SLIDE HEAT SHRINK TUBING OVER BLUE SIGNAL WIRE. PLACE SIGNAL WIRE (BLUE) INTO BARREL AND CRIMP. WE **HIGHLY** RECOMMEND SOLDERING THIS CONNECTION AS TO INSURE A QUALITY ELECTRICAL CONNECTION. ONCE CRIMP IS MADE, MOVE TUBING OVER CRIMP AND HEAT WITH A LIGHTER. TUBING WILL SHRINK TO COVER CONNECTION. BE SURE ALL WIRING IS TIED UP AND UNDER THE DASH TO PREVENT DAMAGE TO WIRING.

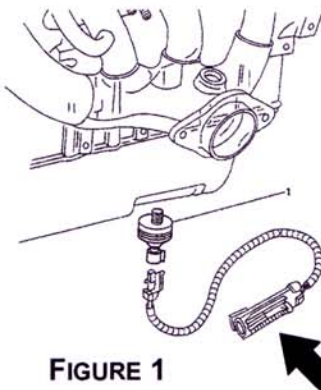


FIGURE 1

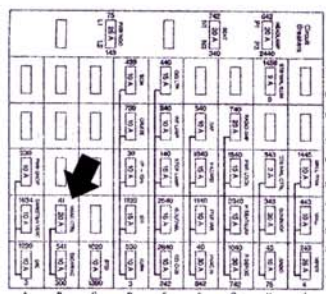


FIGURE 2

YOU KNOCK GAGE IS NOW READY TO USE. IT IS COMMON FOR THE GAGE TO DISPLAY A FEW LIGHTS ON STARTUP. THE CENTER GREEN LED SHOULD BE LIT INDICATING THAT THE GAGE IS ACTIVATED AS SOON AS KEY IS IN "ON" POSITION. IF IT IS NOT LIT, FIRST CHECK THE SWITCH AND VERIFY IT IS ON. IF THE LED IS STILL NOT LIT, RECHECK ALL ELECTRICAL CONNECTIONS.