

# EXTERNAL REVERSE BEEPER KIT

## P/N 2878969



### Application

MY GEM Cars 2005 to Present

Before you begin, read these instructions twice and check to be sure all parts and tools are accounted for. Please retain these installation instructions for future reference and parts ordering information.

### This Kit Includes:

<u>Qty</u>	<u>Part Description</u>	<u>Part Number</u>
1.....	Wire, 18 GA Black	4013674 (16.0")
1.....	Wire, Red-18 GA	4013675 (16.0")
1.....	Connector, T-WIRE 18-22	4013684
1.....	Terminal, Spade Female Insulated	4013742
1.....	Terminal, Spade Male Insulated	4013744
2.....	Terminal, Ring #10	4020092
1.....	Buzzer, Backup	4013789
1.....	Bracket Mount	5245690
1.....	Fuse, Glass TB1A	4013806
2.....	Tie, Cable 11 Black	7081757
2.....	Screw, Drill, .25-14x.75	7519456
1.....	Instructions	9924241

\*Additional wire may be needed for varying vehicle installations.

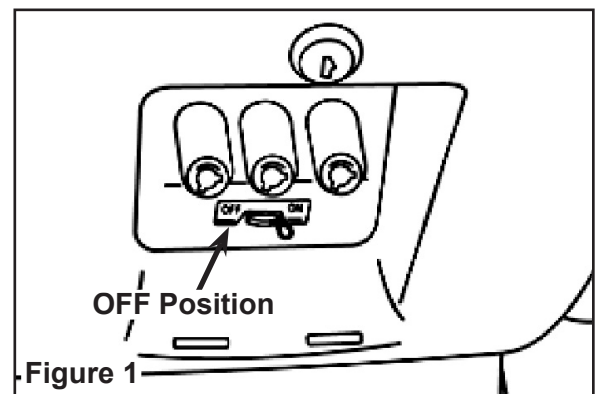
### Tools Required:

T27 Torx Wrench or Socket	Phillips Head Screwdriver
Drill	Crimper
3/8" Wrench, Socket with Ratchet or Drill Bit	Wire Stripper

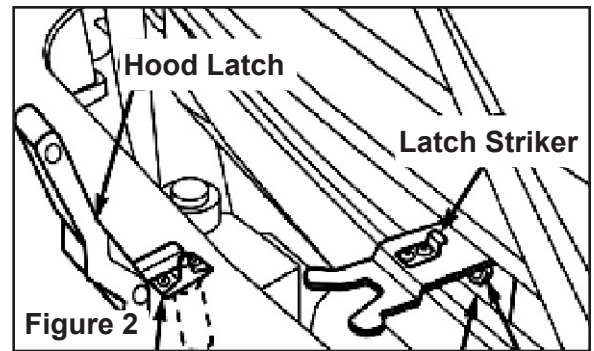
**IMPORTANT:** For your safety, and to ensure a satisfactory installation, perform all installation steps correctly in the sequence as shown on the attached instructions. Please wear safety glasses while performing the steps in the following instructions.

### INSTALLATION INSTRUCTIONS

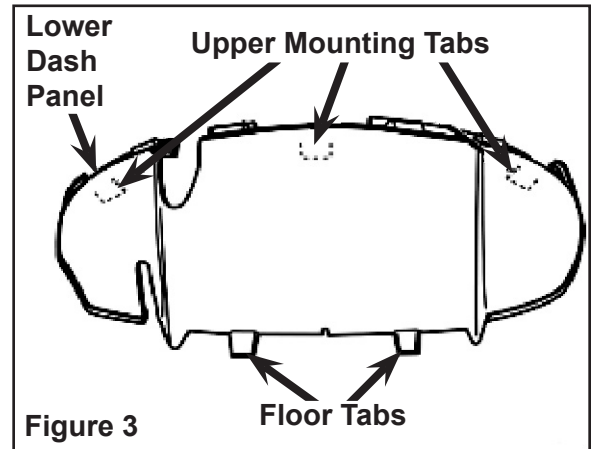
1. Disconnect power from the vehicle by flipping the master disconnect switch (MDS), located in the access panel of the white lower dash, to the 'OFF' position. Figure 1.



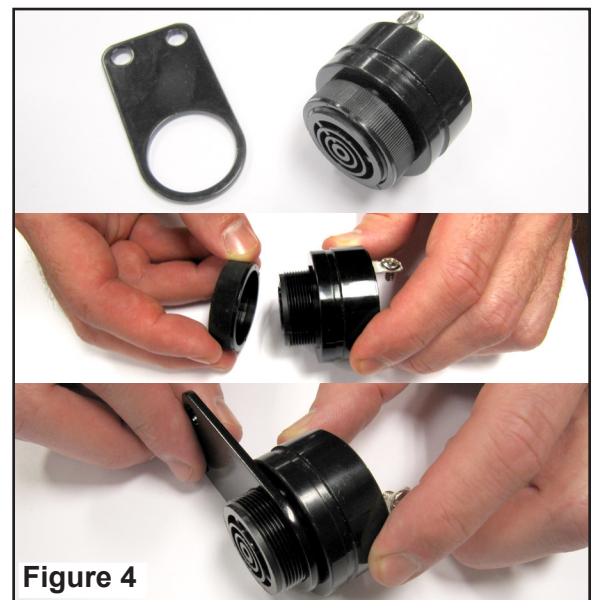
2. Open hood by unlatching center hood latch. The hood opens/tilts forward. Figure 2.



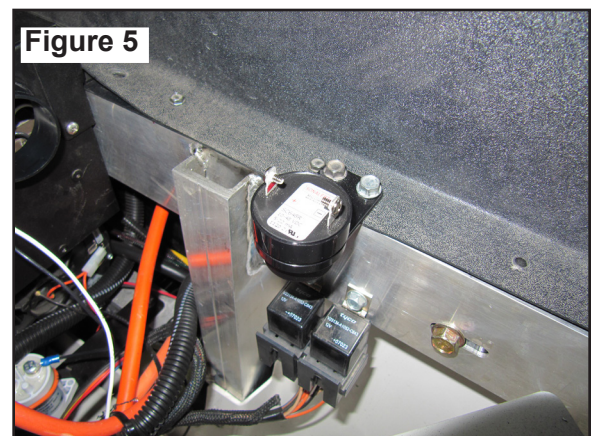
3. Remove the dashes to gain access to the power signal distribution module, fuse panel and spade block. The upper dash can be accessed from under the hood just below the windshield on the black cross member bracket. Remove two T27 Torx head bolts, one per side. Lower dash can be accessed once the upper dash is removed. Use a 3/8" wrench, ratchet or drill driver to remove hardware. Figure 3.



4. Assemble the reverse beeper bracket to the beeper by unscrewing the retainer and sliding the bracket on and replacing the retainer. Figure 4.



5. Find a suitable location to mount the reverse beeper. The recommended area to mount the beeper is on the passenger side of the cross beam. Figure 5.

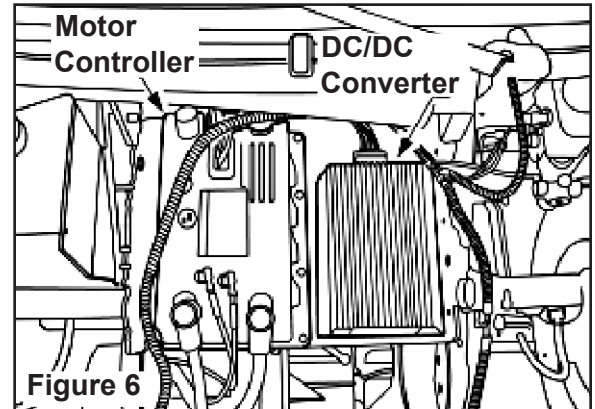


- Determine location of mounting holes and mark with a pencil. Secure the beeper with the two provided self drilling screws (PN 7519456).

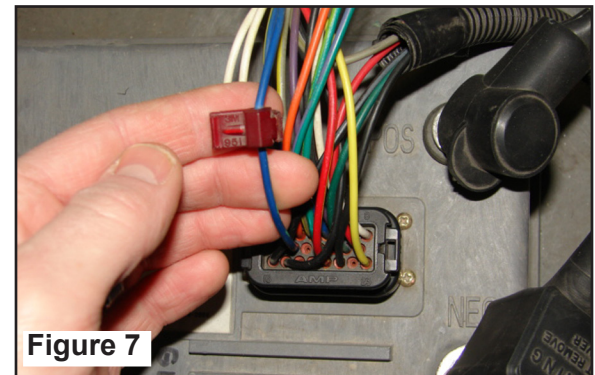
**NOTE:** The screws provided are intended for mounting through the frame or on a secure bracket of the vehicle.

**CAUTION:** Mount the beeper with the horn pointing outward or downward, never up, so it will not to become contaminated with water or debris.

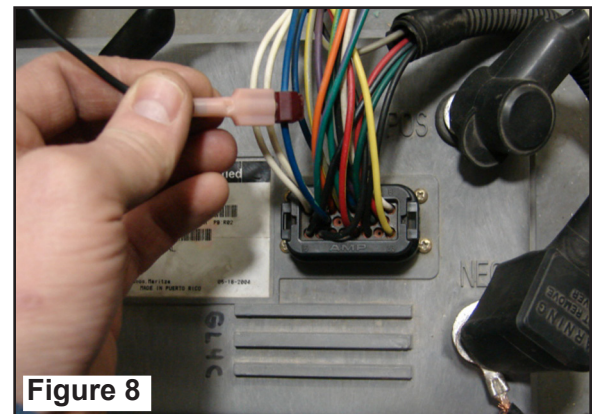
- Locate the motor controller unit (gray colored module toward passenger side on the front sub frame under hood). Figure 6.



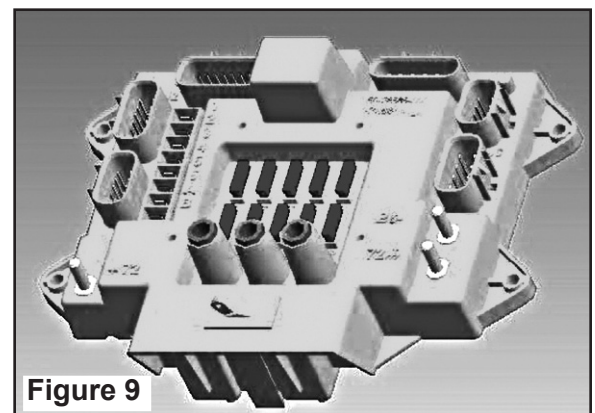
- Locate the blue/green wire on the controller. Pin 10 of the 23-pin AMP/TYCO controller connector (PN 4013684). Crimp the provided T-wire connector (PN 4013684) to this wire. Figure 7.



- Crimp a male spade connector (PN 4013744) to the provided black wire (PN 4013674). Connect the male spade connector to the previously installed T-wire connector from Step 8 above. Figure 8. Crimp a ring terminal connector (PN RT-71-10) to the other end of the provided black wire.



- Locate the power signal distribution module (PSDM). It is located in the dash area. Figure 9.



11. Locate the fuse panel & spade block. Fuse panel and corresponding spade block are integrated on the face of the PSDM in the dash area. Figure 10. (for illustration purposes only)

S1=F3

S2=F2

S3=F8

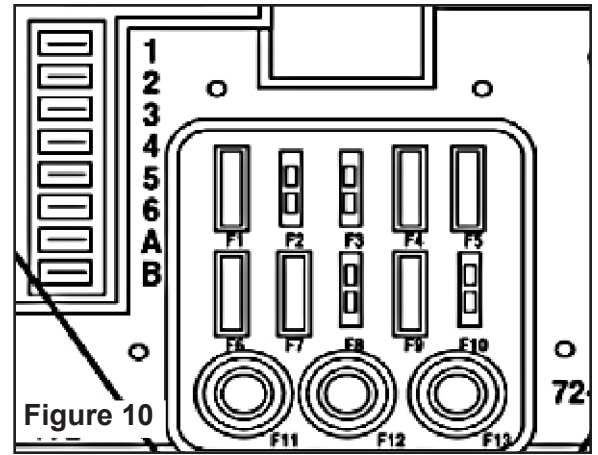
S4=F6

S5=FLASHER HAZARD (JUMP TO S4)

S6=F10

SA=F12

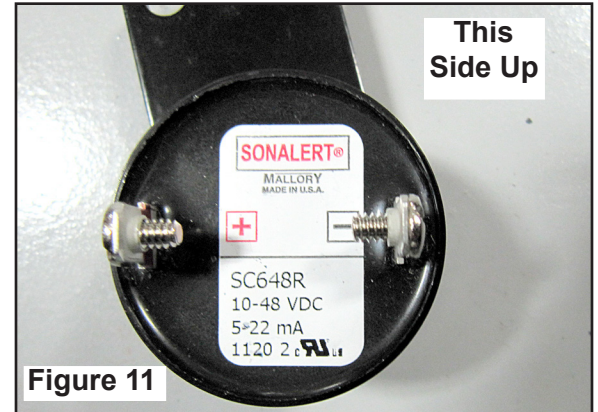
SB=F11



12. Crimp a female spade connector (PN 4013742) to one end of the red wire (PN 4013675), and a ring terminal connector (PN RT-71-10) on the other end. Connect the female spade connector to the spade block 'B' male spade terminal (PN 4013744). Install the provided 1-amp fuse (PN 4013806) to the corresponding fuse holder in the fuse Block 'F11'. Figure 10.

13. Route wires to the beeper. Connect the wires to reverse beeper, using Phillips-head screwdriver. Using the plastic tie cables (PN 7081757) provided, secure the wires to the frame or bracket. Figure 10.

- Connect the black wire to '-' negative.
- Connect the red wire to '+' positive.



14. Connect power to the vehicle. Flip the MDS to the 'ON' position.

15. Verify operation. Turn the key switch On. Select the drive mode switch to 'REV' for reverse. The external reverse beeper should beep with the pulse signal input from the motor controller unit.

16. Install white lower dash. Install gray upper dash. Close front hood.



# Wiring Diagram for External Reverse Beeper

