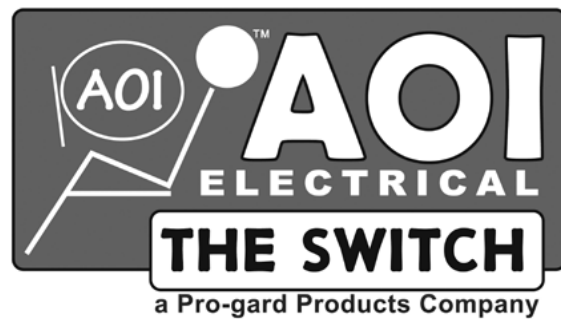


# **INSTALLATION GUIDE**

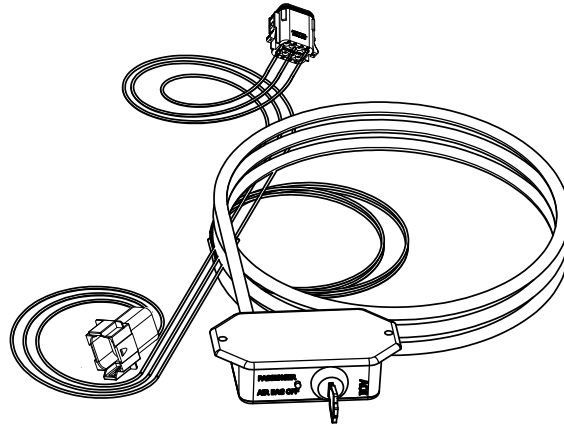
**AOI0022/ AOI0023**

**UNIVERSAL AIR BAG SWITCH**



**aoielectrical.com**  
**800.480.6680**

THESE COMPONENTS ARE REQUIRED  
TO INSTALL THE AOI AIR BAG CONTROL SYSTEM



AOI0022/23

**I. The following tools may be required to complete the installation.**

- A. Wire Strippers (24 AWG - 18AWG)
- B. Soldering Iron & solder
- C. Heat shrink tubing
- D. Standard and Phillips Screwdriver
- E. Socket Wrench with 7mm and 10mm sockets
- F. Crimper

**II. Read all instructions carefully before starting the assembly process.**

**WARNING:** *Never probe the electrical connectors on air bag, safety canopy or side air curtain modules. Failure to follow this instruction may result in the accidental deployment of these modules, which increases the risk of serious personal injury or death.*

**WARNING:** *When performing service on or near the Supplemental Inflatable Restraint (SIR) components or the SIR wiring, the SIR system must be disabled. Failure to observe the correct procedure could cause deployment of the SIR components. Serious injury can occur. Failure to observe the correct procedure could also result in unnecessary SRS system repairs. Consult OEM Dealer or Repair Manuals for correct procedures.*

**III. Pre-Installation Procedure.**

- A. Verify that the SRS (Supplemental Restraint System) is functioning properly. Start the vehicle, immediately after cranking the engine, locate the Air Bag Check light on the Dash Board. The light should flash for approximately 6 – 8 seconds, then extinguish. Wait for another 6 – 8 seconds. The light should NOT come back on. More recent vehicles may briefly show the airbag check light once before turning it off. This is also normal, so long as the light does not come back on.

## **WARNING:**

*In the event the light comes back on, or you have no check light at all, DO NOT ATTEMPT TO INSTALL THE AIR BAG SWITCH. The vehicle needs to be taken to your local service department to have the air bag system repaired.*

- B. If the air bag system completes its self-testing procedure and extinguishes, as described above, the system is working properly. You may now proceed with the installation process

### **IV. Air Bag Switch Installation.**

- A. Disconnect the vehicle battery power and allow sufficient drain time (20 Min.) for the SRS System.
- B. Remove necessary trim panels, glove box, and/or support members to gain access to the Air Bag Module.
- C. Identify Air Bag Connector and wiring colors for your vehicle.
- D. Locate the wires going to the air bag canister. The passenger side air bag is usually located behind the glove compartment and the driver side air bag is located in the steering wheel. Single stage air bags have 2 wires total while dual stage air bags have 4 wires total.

## **WARNING:**

*At NO TIME, while the air bag circuit is unplugged, should the ignition be turned ON.*

- E. After locating your vehicle's air bag wires, locate a good area to splice into the air bag harness. Carefully cut away any wire covering to gain accesses to the wires. You will need 2 or 3 inches of exposed wire on each side of the splices and extra room to work with.
- F. The universal harness has two sets of (Yellow, White, and Green) wires. Each set of three wires go to one stage of the air bag. To wire a single stage air bag, only one set of wires are used and the second set is unused.
- G. Refer to the wiring diagram on the last page for detailed instructions on how the wires are connected. Identify the feed/signal and return/ground wires first. You may need to use a vehicle database for this, or contact tech support at 1-800-480-6680 for assistance.
- H. On the first stage of the air bag cut the signal wire and connect the yellow and white wire to the each of the ends. The White wires go toward the control module and the Yellow wires go toward the air bag canister. Do Not cut the ground wire, only strip back and expose the wire from the insulation. Connect the Green wire (T-tap) to the exposed ground wire and solder the wires together securely. Repeat for the second airbag stage using the other set of wires, if you have two airbag stages. Otherwise, cap off any unused wires with heat shrink or some other type of insulator. Refer to Figures 1 & 2.

- I. The Air Bag Switch Harness is equipped with a Red Power Lead and Black Ground lead. These are used to provide the electrical power for the switch. Locate a convenient power source, preferably from an ignition-controlled circuit with a 10 amp fuse (one can be added) to provide power. Contained in the kit is a Ring Terminal. This can be utilized to make your Ground connection to a convenient screw or bolt that makes contact with the chassis.

## V. Testing the AOI Switch

- A. With the vehicle off, move the airbag keyswitch to the “on” position, where the key is parallel to the length of the airbag box. Turn the vehicle on. The air bag check light on the dashboard should flash for approximately 6-8 seconds, then go out. There is an LED light on the switch, which would remain on while the vehicle is on as well. **From this point on DO NOT actuate the keyswitch with the vehicle on.** Some vehicles may be equipped with an airbag status indicator located in the center dash or headliner. If the indicator shows that the airbag is on while the AOI switch is active, this is perfectly normal.

**NOTE:** *If the check light comes back on, whether flashing or a solid light, do some preliminary checks. Make sure both plugs are connected and completely secured. Double check the rest of the air bag system to be sure no other connections have come loose.*

**If these preliminary checks don't correct the problem, call AOI Electrical, at the toll free number (888) 903-0004, and ask for technical assistance.**

## VI. Mounting the AOI Switch Box

**NOTE:** *In order to be compliant with federal regulations, the driver side air bag on/off control switch must be mounted in a manner so that the telltale light on the switch box is clearly visible to the driver's seat position. A passenger side air bag on/off control switch must be mounted in a manner that is clearly visible to all occupants of all front seating positions.*

**CAUTION:** *If the air bag on/off control switch is mounted in a location that is not highly visible, (locations such as the glove box, underneath the dash, lower kick panel, etc...) a remote status light can be mounted to meet the above requirements in place of the switch box.*

- A. In order to mount the switch on the vehicle, locate a flat surface with a smooth finish, which is accessible. (The adhesive will not mount to any type of cloth or velour surface)
- B. Find the Automotive Adhesion Promoter, which is enclosed in the kit. Using the Promoter, wipe down the area where the switch will be mounted. Allow the area to dry, remove the adhesive backing from the switch, and stick the switch to the area.

## VII. Warning Label Placement

- A. Locate the “Large Yellow Warning Label” enclosed in the kit. Find an area to place the label on the vehicle that will be seen by the occupant.

## VIII. Owner's Manual

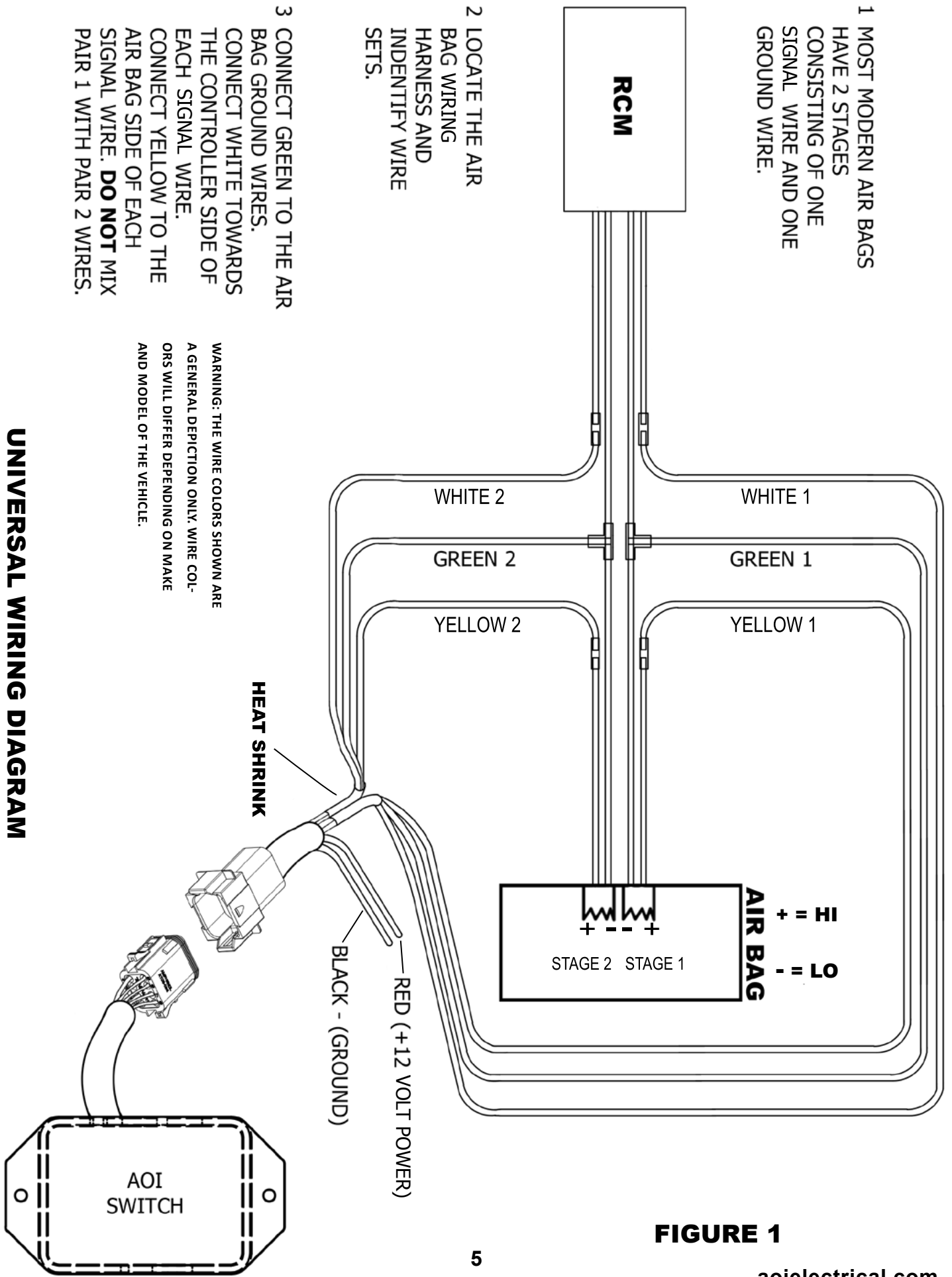
- A. Fill out the necessary dealer/automotive repair shop information on the Owner's Manual insert as indicated.
- B. Give the vehicle owner or lessee the Owner's Manual insert with instructions to place it with the vehicle's owner manual documentation.

1 MOST MODERN AIR BAGS  
HAVE 2 STAGES  
CONSISTING OF ONE  
SIGNAL WIRE AND ONE  
GROUND WIRE.

2 LOCATE THE AIR  
BAG WIRING  
HARNESS AND  
IDENTIFY WIRE  
SETS.

3 CONNECT GREEN TO THE AIR  
BAG GROUND WIRES.  
CONNECT WHITE TOWARDS  
THE CONTROLLER SIDE OF  
EACH SIGNAL WIRE.  
CONNECT YELLOW TO THE  
AIR BAG SIDE OF EACH  
SIGNAL WIRE. **DO NOT** MIX  
PAIR 1 WITH PAIR 2 WIRES.

WARNING: THE WIRE COLORS SHOWN ARE  
A GENERAL DEPICTION ONLY. WIRE CO-  
LORS WILL DIFFER DEPENDING ON MAKE  
AND MODEL OF THE VEHICLE.



**UNIVERSAL WIRING DIAGRAM**

**FIGURE 1**

**FIGURE 2**

