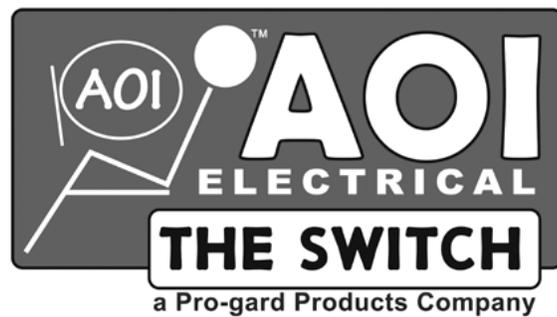


INSTALLATION GUIDE

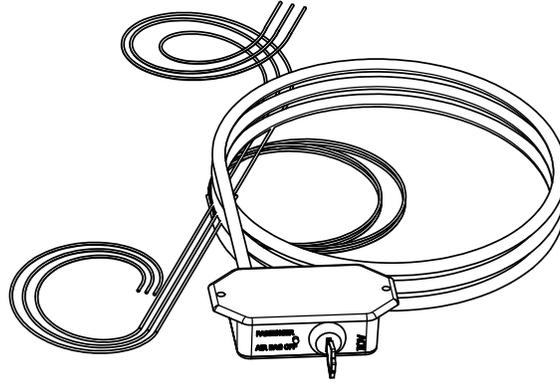
AOI0018/ AOI0019

UNIVERSAL AIR BAG SWITCH



aoielectrical.com
800.480.6680

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



AOI0018/19

I. The following tools will be required to complete the installation.

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

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.

NOTE: *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. Identifying Air Bag Connector type and wiring colors for your vehicle.

V. Installing the Switch and Hardwire the Harness to the Vehicle

- A. 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. Dual stage air bags are the most common and have 2 wires for each stage. Single stage air bags have only 2 wires total while 2 stage air bags have 4 wires total.

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

- B. 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 access 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.
- C. 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. The 2 stage air bag has 4 wires total, where the single stage has 2 wires total. To wire a single stage air bag only one set of wires are used and the second set are unused.
- E. 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.
- F. 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 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.

- G. The Air Bag Switch Harness is equipped with a Red Power Lead and Black Ground wires. These are used to provide the electrical power for the L.E.D. lights on the switch. Locate a convenient power source, whether from a continuous circuit or an ignition-controlled circuit, 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.

VII. 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.*

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 seated. Double check the rest of the air bag system to 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.

VIII. 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 does not meet the above visibility standards, (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, and then remove the adhesive backing from the switch, and stick the switch to the area.

IX. 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 passenger of the seat for which the air bag on/off control switch is installed. In law enforcement applications, it is highly recommended the label be placed directly over the location of the passenger air bag or just below on the trim. Otherwise, the sticker can be placed in the door jamb, on the appropriate side.

X. 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

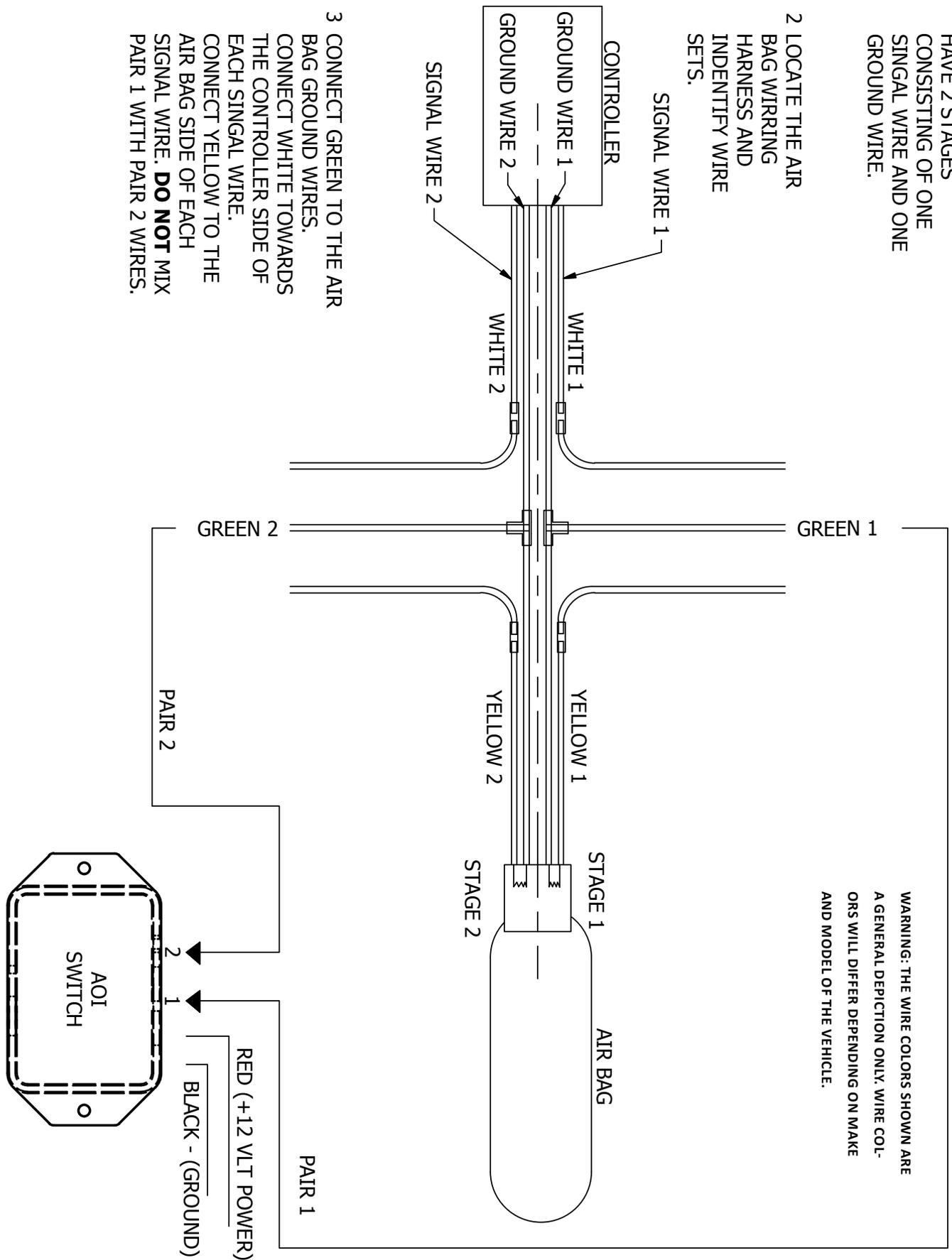
UNIVERSAL WIRING DIAGRAM

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 COLORS WILL DIFFER DEPENDING ON MAKE AND MODEL OF THE VEHICLE.





Towards control module



Towards airbag

