



Airbag Control Switches Deactivation Shunts

“Mobility equipment dealers and installers in today’s ever changing market feel secure knowing that AOI by Pro-gard continues to provide innovative and superior airbag control switches and deactivation shunts for the mobility vehicle industry. With the evolution of airbags, especially knee bolster, side impact, and side head curtain airbags, compatibility with aftermarket mobility products is of great concern to dealers and customers alike. As a National Mobility Equipment Dealers Association (NMEDA) manufacturer member, AOI provides effective airbag solutions while focusing on ease of installation and quality in design. AOI meets and exceeds all NHTSA requirements and is a NHTSA approved and referred airbag control manufacturer.”

Pro-gard Products, LLC



NHTSA CONTROL SWITCH REQUIREMENTS

NHTSA

- Switch must work in conjunction with the onboard computer of the vehicle
- Must be key operated
- Must have an “amber” light for the off position visible to the driver at all times
- Light for the on position
- Plug-N-Play options available
- Built in Liability fuse confirming position of switch should an accident occur
- Silicone-sealed internal system
- Corrosion/oxidation resistant
- Fail Safe Switch tested to 100,000 cycles

AOI Electrical, LLC

- Switch must work in conjunction with the onboard computer of the vehicle
- Must be key operated
- Must have an “amber” light for the off position visible to the driver at all times
- Light for the on position
- Plug-N-Play options available
- Built in Liability Fuse* confirming position of switch should an accident occur
- Silicone-sealed internal system
- Corrosion/oxidation resistant
- Fail Safe Switch tested to 100,000 cycles

* Internal Sealed Liability Fuse...Burned-Unburned (eliminates the question of switch position at the time of impact. The fuse's condition provides “proof positive” of the status of the air bag switch during a collision. AOI offers the same protection that all new car manufacturers build into their factory installed air bag switches.

AIRBAG CONTROL SWITCHES

AOI airbag control switches allow an airbag to be turned on and off. The control switch can be installed for one or all of the driver, passenger, and side head curtain airbags. The key-operated switch uses high-visibility lighting to indicate whether the airbag is on or off.

- Plug-n-play models available
- Internal sealed liability fuse
- High visibility lighting, definite on/off positions
- Single/Dual stage and side curtain airbag solutions
- Thick, factory 18 gauge wire
- Heat shrink insulated, hand soldered connections
- 1 year limited warranty
- US Patent No. 6,452,486 B1 & 6,552,657 B2



DEACTIVATION SHUNTS

AOI deactivation shunts allow the airbag system full functionality when an airbag is removed. Heat shrink and insulated resistors provide quick installation and ensure a secure connection with plug-n-play options available.



- Airbag deactivation solutions
- Easy, 5-minute installation
- Hand assembled from all new molded parts
- Heat shrink insulated resistors (corrosion/oxidation resistant)
- Secure connection (peace of mind)
- Universal models available

REMOTE AIRBAG STATUS LIGHT

NHTSA requires that an activation light be visible if a switch is installed. The AOI electrical remote status light allows “the switch” to be installed in the glove box. The remote status light is small, compact and easy to mount.

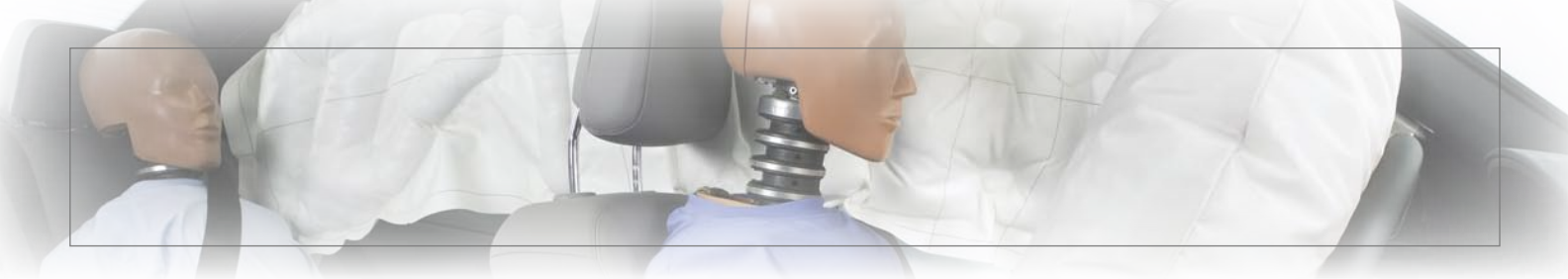


AOI by Pro-gard’s airbag control switches and deactivation shunts provide safety and peace of mind for the vehicle operator or passengers from propelled equipment in the event of a crash. Mounted equipment in an airbag deployment zone puts occupants at risk. With the ability to deactivate the airbag being obstructed, the switch or shunt eliminates the possibility of aftermarket equipment being forced in the direction of the driver or passengers at the point of impact. Controlling the airbags also protects expensive equipment from destruction and frees up space for extra mounted equipment.



National Mobility Equipment Dealers Association
Manufacturer Member





NHTSA AND AIRBAG CONTROL SWITCHES

ON-OFF SWITCH/DEACTIVATION

When the risks associated with an occupant being seated in front of an active frontal air bag outweigh the safety benefits, NHTSA will authorize the installation of an air bag ON-OFF switch. Authorization will be granted under the following circumstances:

- Drivers must sit within a few inches of the air bag (typically because they are of extremely small stature, i.e., four feet, six inches or less). (For the driver frontal air bag only.)
- An individual with a medical condition is safer if the frontal air bag is turned off. A written statement from a physician must accompany each request based on a medical condition unless the request is based on a medical condition for which the National Conference on Medical Indications for Air Bag Deactivation recommends deactivation. (For driver and/or passenger frontal air bag as appropriate.)
- Persons diagnosed with Scoliosis.
- Drivers diagnosed with achondroplasia, and Passengers diagnosed with Down Syndrome or Atlantoaxial Instability.
- A rear-facing infant restraint must be placed in the front seat of a vehicle because there is no rear seat or the rear seat is too small for the child restraint. (For the passenger air bag only.)
- A child under 13 years of age must ride in the front seat because the child has a condition that requires frequent medical monitoring in the front seat. (For the passenger air bag only.)

Air bags deploy very rapidly. Very close or direct contact with a deploying air bag can cause serious or even fatal injury. For additional information, switch request forms, FMVSS modifier exemption forms and NHTSA standards, visit the referenced links.

REFERENCE LINKS

pro-gard.com

aoielectrical.com

nhtsa.dot.gov

safercar.gov

nmeda.org



MOBILITY EQUIPMENT/AIRBAG OBSTRUCTION

EQUIPMENT

- Steering Control Systems
- Hand Control Systems
- Mounted Electronic Controls
- Access Products / Assist handles
- Electronic Vehicle Controls
- Removal of Steering Wheel
- Removal of Airbag
- Lift Systems
- Driver Positioning
- Medical Condition
- Reduced Diameter Steering Wheels
- Roof Extensions

SOLUTION

- Driver Switch / Shunt
- Knee Bolster Shunt
- Driver / Passenger Switch
- Side Curtain Switch
- Driver / Passenger Switch
- Driver Switch / Shunt
- Driver / Passenger Shunt
- Side Curtain Switch / Shunt
- Driver Switch
- Driver / Passenger switch
- Driver Switch / Shunt
- Side Curtain Shunt

***When airbag remains in vehicle, a control switch is required.**

***When airbag is removed from vehicle, a deactivation shunt is required.**

**AOI by Pro-gard
Pro-gard Products, LLC**

7988 Centerpoint Drive
Indianapolis, IN 46256

P: 800.480.6680
F: 317.579.6681

pro-gard.com



7988 Centerpoint Drive, Suite 400 Indianapolis, IN 46256

AOI Electrical, LLC
A Pro-gard Products Company