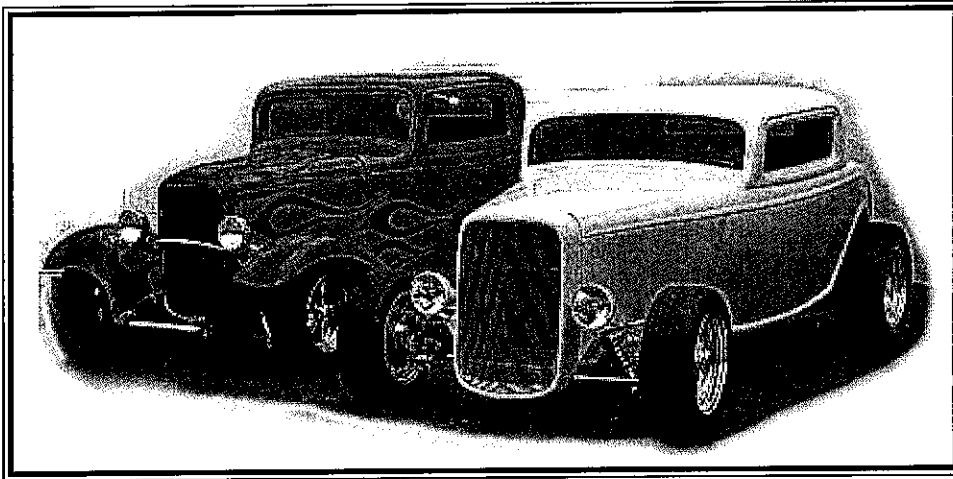


AMENITY

**Installation Manual &
Operation Instructions**



SHAVED DOOR KIT MODELS:

SHAVED

SHAVED-ACT

SHAVED-35

**Note: Read this instruction manual
thoroughly before installation.**

TECH SUPPORT: 800-454-7725

Rev. 2003-04

EACH KIT INCLUDES THE FOLLOWING COMPONENTS:

SHAVED

- (1) Multi-EB Unit
- (1) Shaved Harness X
- (2) #10 Blue Rings
- (1) Emergency Switch

SHAVED-35 (includes SHAVED)

- (2) 35-Pound Solenoids
- (4) Mounting Bolts
- (4) Nuts
- (4) Washers
- (2) Yellow Butt Connectors
- (2) Yellow 5/16 Ring Terminals
- (2) Nylon Cables
- (4) Cable Ferrules

SHAVED-ACT (includes SHAVED)

- (2) 8-Pound SPAL Actuators

Installation instructions for AMENITY Shaved Door Handle Kit SHAVED / SHAVED-ACT / SHAVED-35

This kit is designed to operate two or more functions. Both doors and five other functions can be controlled with the *AMENITY* four-button remote control. The additional channels can be used to operate power door releases, control linear actuators, trunk releases or roll up or down power windows.

Channels 3 through 7 are all negative outputs. Please refer to the diagrams near the end of the instruction manual for positive, negative and reverse trigger diagrams.

Wiring is important to the overall finished project. Make sure all wires are properly connected, free of potential damage and are correctly fused.

Basic functions of the AMENITY Shaved Door Kit:

The remote control supplied with your kit is seven channel, four button.

Channel 1: opens driver's side door.

Channel 2: opens passenger's side door.

Channel 3: _____

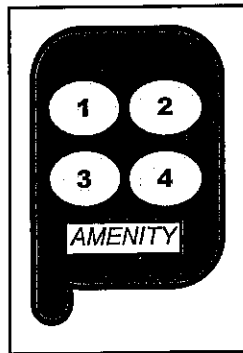
Channel 4: _____

Channel 5: _____

Channel 6: _____

Channel 7: _____

Optional 250 mA (milliampere) negative outputs.
Additional relays are required for each channel.



Basic functions of the remote control:

Channel 1: Button 1

Channel 2: Button 2

Channel 3: Button 3

Channel 4: Button 4

Channel 5: Button 1 + Button 2

Channel 6: Button 1 + Button 3

Channel 7: Button 1 + Button 4

Receiver mounting and wiring:

The receiver is the item that provides all of the outputs to activate the different functions. Because of the nature of the receiver module, it must be mounted in the interior of the vehicle where there is no moisture.

Notes:

Do not plug in the receiver module until the all of the wiring is complete!

Do not ground the antenna wire!

Options

Hidden Switch (Included in kit)

It is a good idea to mount the provided external switch on the vehicle to allow entrance to the vehicle in case of lost transmitters or leaving the keys in the vehicle. (See diagram.)

(continued)

Options (con't)

Channels Three through Seven

These wires are negative outputs for an optional accessories. Each can be used to control linear actuators, a trunk/hatch release, power window up or down, remote starter, or anything else you can imagine. See diagram for installation ideas.

NOTES: One additional relay is required to operate each channel.

Connecting or activating the additional relays is not required for optimal use.

Actuator mounting and wiring (SHAVED-ACT)

The actuators are to be mounted in the vehicles doors either vertically or horizontally. Mount the motors vertically so that the motors face upward so there is less of a chance for water to condensate inside the actuator. They are to be attached to the latch in the same position as the exterior door handle (see diagram). The actuators have two wires and can push or pull depending on how you mount them in the door (see table below).

Actuator movement	Red wire	Blue wire
Push	Connect to brown/yellow wire	Connect to ground
Pull	Connect to ground	Connect to brown/yellow wire

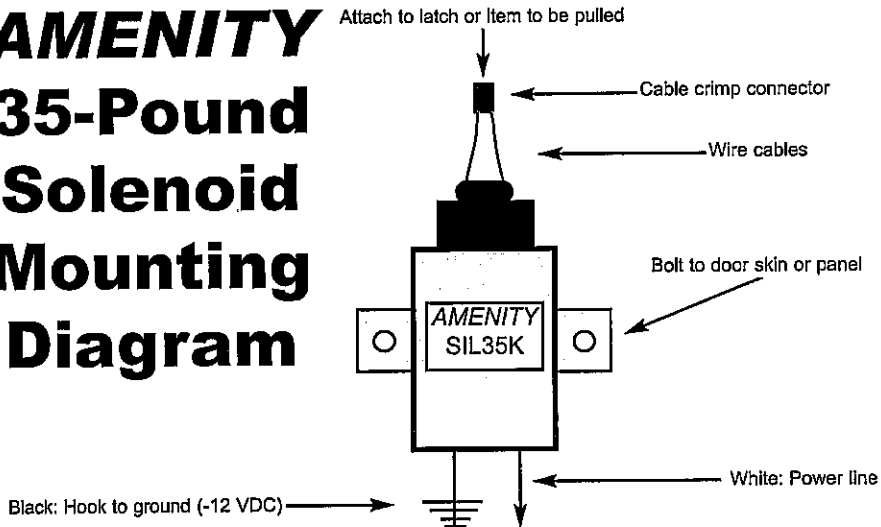
Important: Always plan for the worst case scenario when building custom cars or trucks. Think about the application for the product you are installing and the problems that could happen. Take the time and come up with a solution that will let you remedy the situation with the least amount of hassles.

If you have any technical questions feel free to call us at 1-800-454-7725.

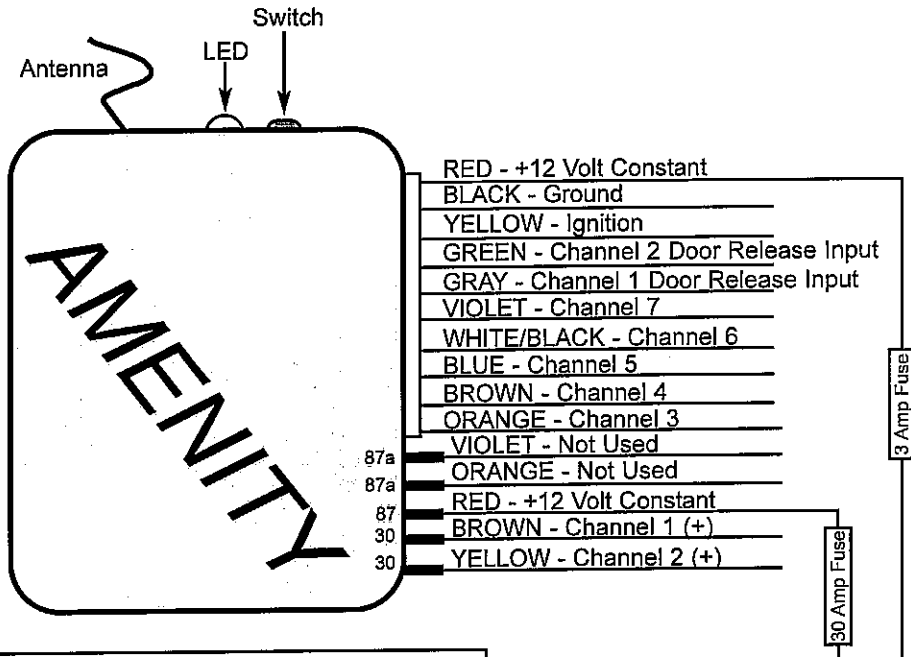
Reprogramming the Remote Transmitters

Make sure ignition is turned off. Locate the programming button on the side of the MULTI-RCU next to the LED. Press programming button three times quickly. The LED will turn on (constant). Press Button 1 individually on each of the remotes to be programmed. The LED will flash off and turn back on constant. The LED will remain on for approximately 10 seconds after the last transmitter was programmed. Wait for LED to turn off before testing transmitters for proper function.

**AMENITY
35-Pound
Solenoid
Mounting
Diagram**

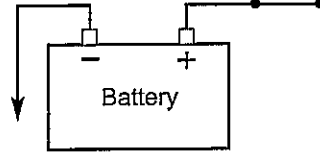


AMENITY Seven-Channel Shaved Door Handle Kit Wiring Diagram

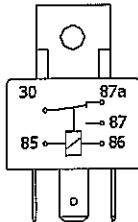


Notes:

Channels 1 and 2 are Positive Output.
 Channels 3 - 7 are Negative Output.
 External relays are required for Channels 3-7.
 Additional relays are NOT included.



Internal Relay Diagram
 (Channels 1 and 2)



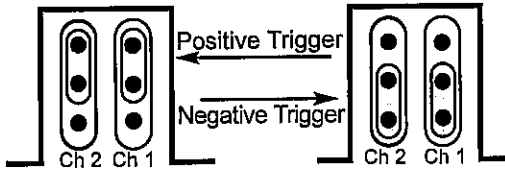
Do not ground antenna!

Connecting the YELLOW (ignition) wire will disable Channels 1 through 4 while the ignition key is "ON."

Unit will stop operating for 30 seconds if any combination of Buttons 1 or 2 are pushed eight (8) times in 30 seconds.

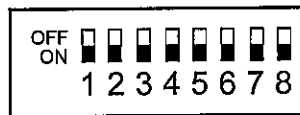
Jumper Settings for Optional Hidden Switch

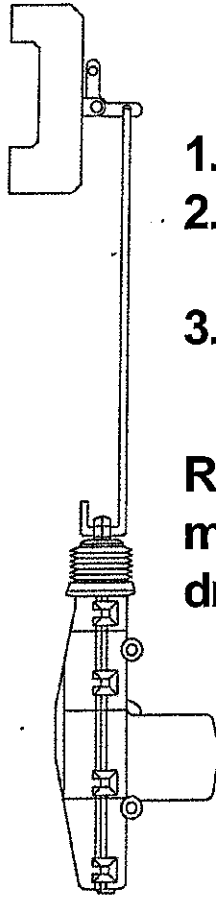
Default setting: Negative Trigger
 Negative settings can be used to install a door release switch inside/outside of the vehicle.
 Please call 800-454-7725 for more information.



Dip Switch Settings

For optimal performance, all switches should be in the "OFF" position. If switches are in the "ON" position, damage may occur to attached components.



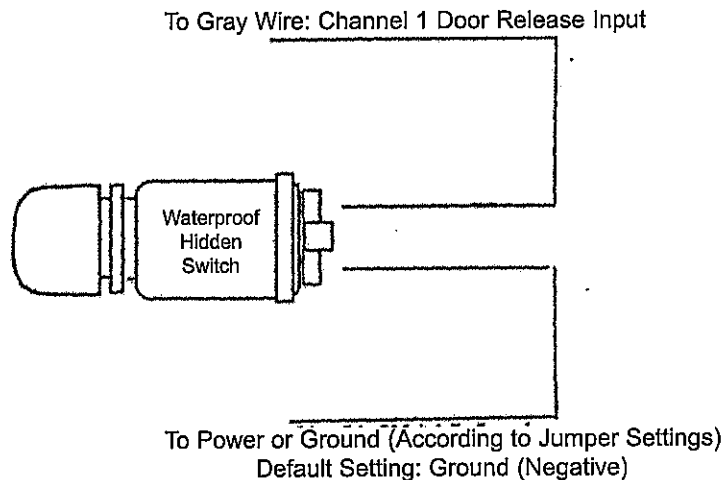


Actuator Installation Instructions

1. Attach rod to actuator.
2. Attach rod to door latch or item to be pulled/pushed.
3. Mount actuator to door panel.

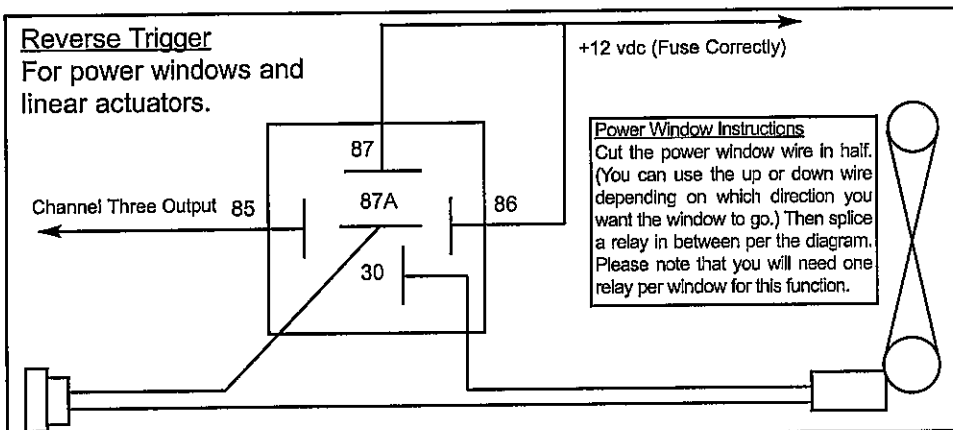
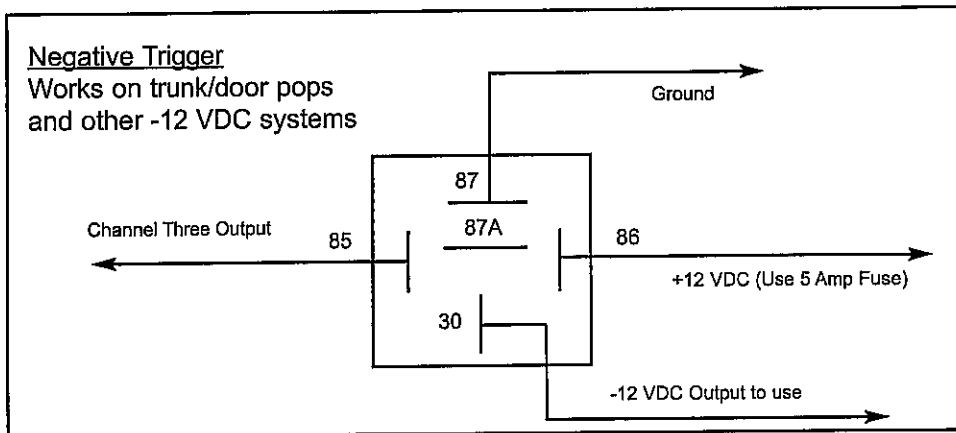
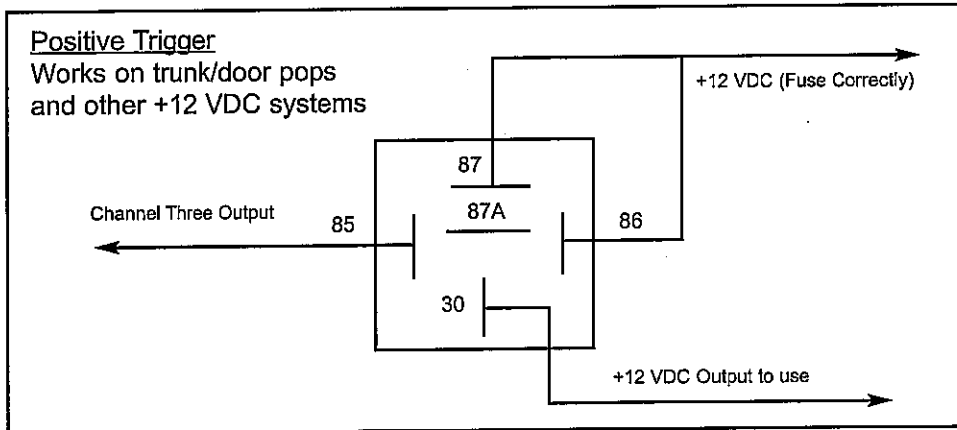
Remember, if possible, mount the motor vertically to allow for water drainage.

Hidden Switch Wiring Diagram



Channels 3 - 7 Wiring Options

Wiring suggestions of the optional negative outputs using a SPDT automotive relay



Limited Warranty Statement

I.E.I. AMENITY LINE WARRANTY STATEMENT

I.E.I. warrants this product to be free from defects in material and workmanship for a period of one (1) year from the date of sale to the original purchase, and not more than two (2) years from the date of manufacture. I.E.I. will repair this product free of charge if, in the judgment of I.E.I., it has been proven defective within the warranty period. The product should be returned, at the customer expense, to **Iowa Export-Import, 512 Tuttle Street, Des Moines, Iowa 50309-4618**. This warranty does not cover any expenses incurred in the removal and/or reinstallation of the product.

This warranty does not apply to any product damaged by improper installation, accident, misuse, abuse, improper line voltage, fire, flood, lightning, other acts of God, or a product altered or repaired by anyone other than I.E.I.

This warranty is in lieu of other warranties, expressed or implied, including any implied warranty of merchantability. No person is authorized to assume for I.E.I. any other liability concerning the sale of this product.

**IMPORTANT — KEEP YOUR INVOICE
WITH THIS WARRANTY STATEMENT !**



512 Tuttle St., Des Moines, IA 50309, info@spal-usa.com, www.spal-usa.com
Main/Sales: 800-345-0327, Sales: 888-SPAL-USA, Technical: 800-454-7725