

NOTES:



#AVSREC4



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**4-CHANNEL
REMOTE SYSTEM**



THIS IS ONLY A GUIDE!!!

THE APPLICATIONS SHOWN ARE GENERAL GUIDE LINES OF POSSIBLE APPLICATIONS. VEHICLE SPECIFICATIONS AND AFTERMARKET EQUIPMENT MAY CHANGE. ALWAYS REVIEW THE VEHICLE'S SERVICE MANUAL AND/OR EQUIPMENT INSTALLATION MANUALS WHEN PERFORMING AN INSTALLATION. AVS MOBILE SPECIALIST DOES NOT ASSUME ANY RESPONSIBILITY FOR DAMAGE TO PROPERTY OR PERSONS WHICH MAY OCCUR DUE TO INCORRECT APPLICATIONS. NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS.

LIMITED 1-YEAR WARRANTY

UNDER THE CONDITIONS OF THIS WARRANTY, AVS MOBILE SPECIALIST WILL REPAIR THE CONTROL MODULE IF FOUND TO HAVE A DEFECT IN MATERIAL OR FACTORY WORKMANSHIP FOR ONE YEAR FROM THE ORIGINAL DATE OF PURCHASE BY THE ORIGINAL PURCHASER. THIS WARRANTY IS OFFERED TO THE ORIGINAL PURCHASER AND IS NOT TRANSFERABLE. THIS WARRANTY WILL BE VOID IF THE PRODUCT HAS BEEN ABUSED, ALTERED, IMPROPERLY INSTALLED OR SUBJECTED TO ANY OTHER FACTOR THAT IS BEYOND THE MANUFACTURER'S CONTROL. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR REMOVAL OR REINSTALLATION NOR REPLACEMENT COSTS OF CONSUMABLE ITEMS SUCH AS BATTERIES, FUSES, ETC. AVS WILL DETERMINE IF ANY COMPONENTS ARE DEFECTIVE. IF A COMPONENT IS FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD, AVS RESERVES THE RIGHT TO REPAIR OR REPLACE SAID COMPONENT AT THEIR DISCRETION. SHIPPING ANY MERCHANDISE TO AVS IS THE RESPONSIBILITY OF THE CONSUMER AND IS ADVISED TO PAY FOR SHIPPING INSURANCE THROUGH THE CARRIER OF THE CONSUMERS CHOICE. AVS WILL NOT BE HELD RESPONSIBLE IF INSURANCE IS NOT PURCHASED AND THE PACKAGE IS LOST OR DAMAGED. AVS WILL PAY THE SHIPPING BACK TO THE CONSUMER* ONLY IF THE PRODUCT WAS FOUND TO BE DEFECTIVE. IF THE PRODUCT IS FOUND DAMAGED DUE TO MISUSE, AND/OR ABUSE THEN THE CONSUMER IS RESPONSIBLE FOR RETURN SHIPPING COST.

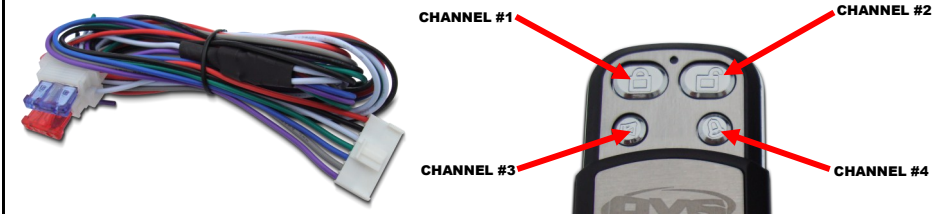
NOTE: THE 4 NEGATIVE OUTPUTS ON THE RECEIVER HAVE A 500MA OUTPUT. THESE OUTPUTS MAY BE USED TO TRIGGER A BOSCHE STYLE RELAY. NEVER CONNECT DIRECTLY TO A DOOR LOCK MOTOR, POP DOOR SOLENOID, AIR VALVE, ETC. THIS TYPE OF ERROR WILL CAUSE DAMAGE TO THE RECEIVERS OUTPUTS AND VOID YOUR WARRANTY! PLEASE USE THE FOLLOWING DIAGRAMS TO GUIDE YOU. FAILURE TO FOLLOW THIS STEP WILL RESULT IN THE MELT DOWN OF THE RECEIVER AND WILL VOID THE WARRANTY!!!

PLEASE READ THIS MANUAL IN ITS ENTIRETY! DUE TO THE COMPLEXITY OF SOME OF THE DIAGRAMS, WE STRONGLY SUGGEST THAT YOU HAVE YOUR AVSREC4 REMOTE SYSTEM INSTALLED BY A REPUTABLE STEREO OR ACCESSORY SHOP THAT IS USE TO INSTALLING THESE TYPES OF PRODUCTS. YOU CAN EASILY WIRE SOMETHING WRONG AND BURN OUT THE RECEIVER, YOUR VEHICLE OR THE COMPONENT(S) THAT YOU ARE INTERFACING WITH. YOU HAVE BEEN WARNED!

Contents:



Wiring & Channel Configuration:



RED - Main +12V input. Fused at 15-amps. **DO NOT** put a fuse larger or you will void your warranty!

BLACK - Ground -12V input.

WHITE (2) - Parking light outputs (+12V). Left & right output for European vehicles. Twist these two wires together for all other vehicles (10-amp load max.)

GREEN - Output #1, channel #1. 8-millisecond*, -12V, 500ma output can drive a module or relay. **DO NOT** connect directly to a door lock motor, actuator, window, etc. Connecting directly to such devices without a relay will damage the unit and void the warranty.

BLUE - Output #2, channel #2, Same specs as output #1.*

GREY - Output #3, channel #3. Same specs as output #1.*

PURPLE - Output #4, channel #4. Same specs as output #1.*

*Quickly pressing a button will give you an approximate 8 millisecond pulse on the corresponding output. Holding a button on the remote down will keep the corresponding output on until the button is released. This can be used for controlling windows, linear actuators, etc.

Installation:

1 Plug in the harness to the receiver and find a suitable location high up in the dash to mount it. Use cable ties to strap it in place. **DO NOT** wedge the receiver into the dash and expect it to stay without securing it! This is dangerous as the unit can fall and wedge itself behind the brake pedal and cause an accident. The higher up the receiver is, the longer the range will be. The thin black wire at the top of the receiver is the antenna. For maximum range do not cut, ground or extend! Doing so will decrease the performance and can cause damage to the receiver voiding the warranty. Make sure to uncoil the antenna and spread it out as far as possible securing it with cable ties.

Ground the BLACK wire to the body of the vehicle using a soldered or crimp on ring terminal. The ring terminal should be against bare metal so remove any paint or primer as necessary. The best location is on a bare metal part under the dash such as a reinforcement brace. Look for an existing bolt that you can remove and install the ring terminal on to. **WARNING:** in some vehicles there are metal reinforcement braces running under the dash that do not connect to the vehicles ground. Be sure that the bolt that you are securing the ring terminal to is actually a ground source!

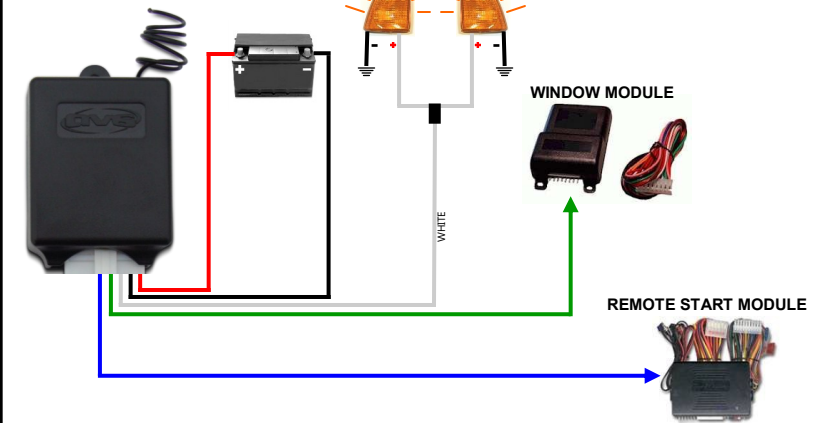
If you are not very familiar with the factory wiring under your dash then **we strongly suggest that you extend the RED wire and route it directly to the vehicles battery.** Extend the RED wire with at least 16 gauge wire. A fuse holder with a 15-amp fuse will also need to be installed within the first 18" of the battery. If you are familiar with the factory wiring of your vehicle then tap into the main constant power wire of your ignition harness. We suggest that you strip back the insulation on the power wire that you are tapping into and carefully pierce a hole through the copper strands of wire with a pick or front of a test light. Now strip the RED wire from the receiver harness about 1.5" and gently twist the wires in a clockwise motion so that you have a clean tidy wire with no stray strands popping out. Now insert the stripped red wire into the hole of the vehicles wire then wrap it around tightly. Using a pair of pliers, or other flat jawed tool, gently squeeze all the bare wires so that they "mesh" together. If you have a soldering iron handy you can now solder this connection but it's not necessary. Take about a 5" strip of electrical tape and wrap it around the bare connection tightly. Once you have the connection entirely covered secure the tape by installing a cable tie around it. This will prevent the tape from unraveling in extreme summer and winter temperatures.

If you are working on a European vehicle such as a BMW, Volkswagen, Mercedes, etc. then you will be using both of the WHITE wires on the parking light circuits. These vehicles have separate left and right parking light circuits. For all other vehicles you will need to simply twist the two white wires together forming one single wire. After you have located the factory +12V parking light wire tap into it using

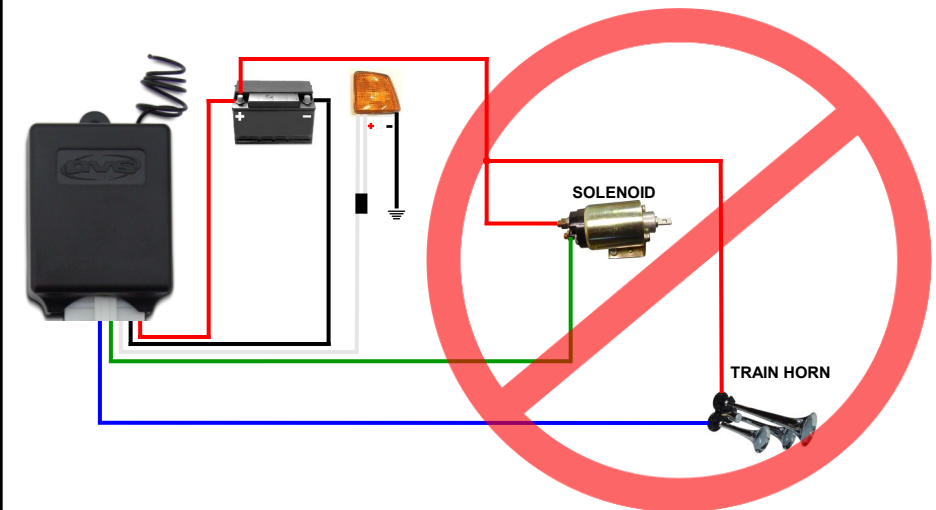
Installation Examples:

For most applications you will need a Bosche style relay (pictured >>>>). These are known as SPDT 12V relays. The only time you will not use a relay is if you are using a "module" such as a window roll up/down module, remote start

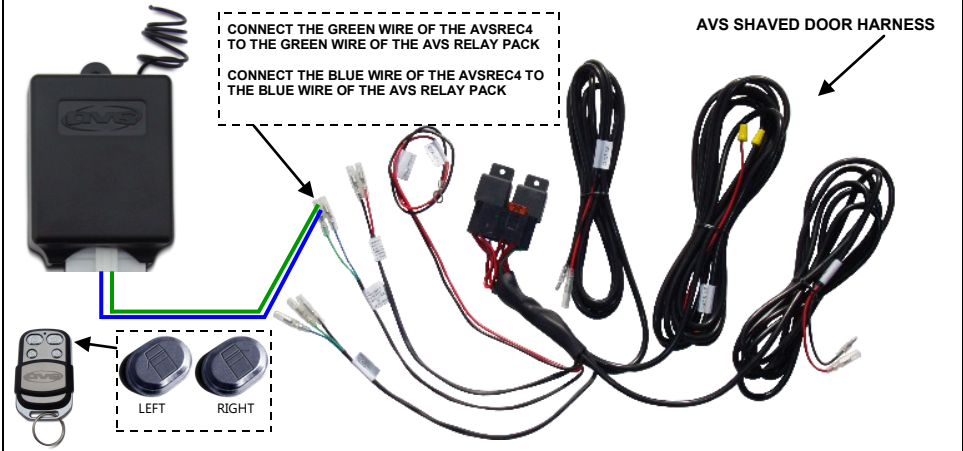
EXAMPLE:



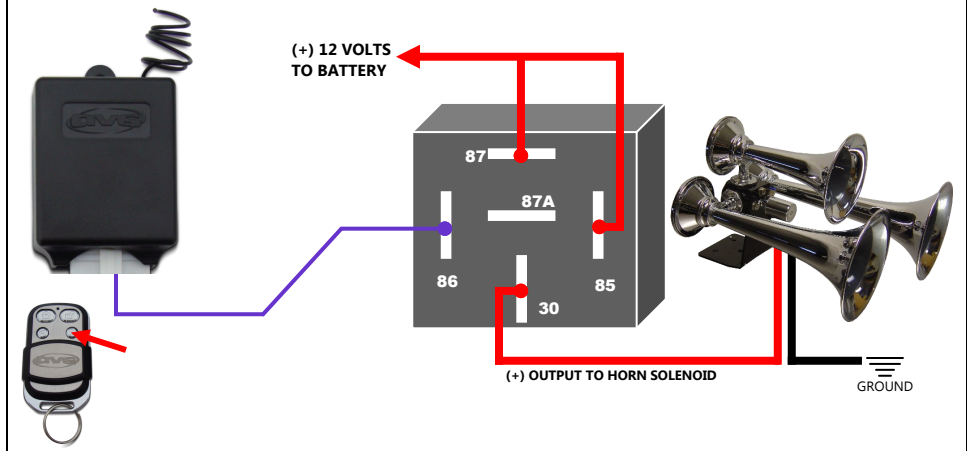
DO NOT !!! DO NOT!!! DO NOT!!! DO NOT!!! DO NOT!!!
DO NOT INSTALL THE RECEIVER DIRECTLY TO ANY DEVICE THAT REQUIRES MORE THAN 500ma OF CURRENT!!! DOING



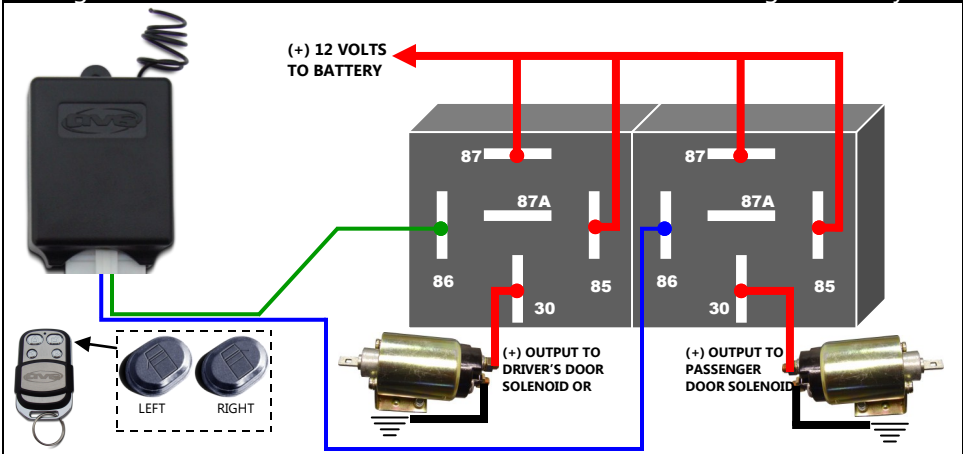
Wiring The Receiver To An AVS Shaved Door Kit Relay Harness



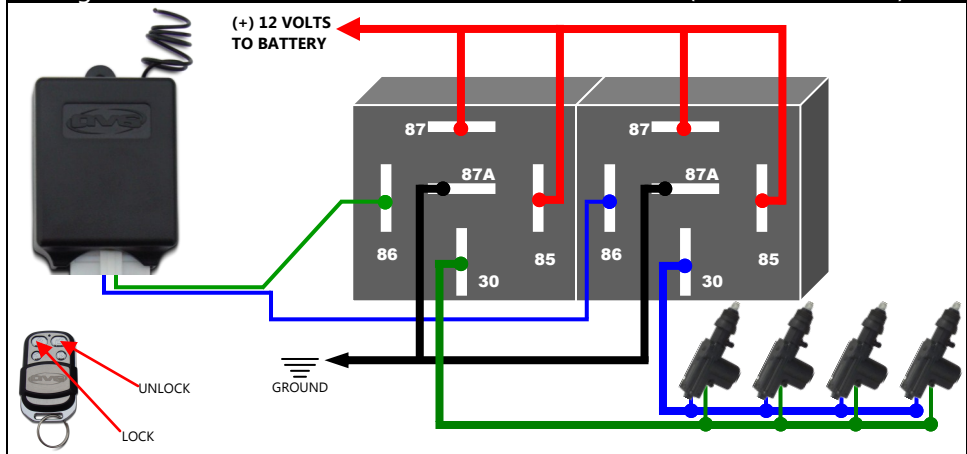
Wiring The Receiver To A Train Horn



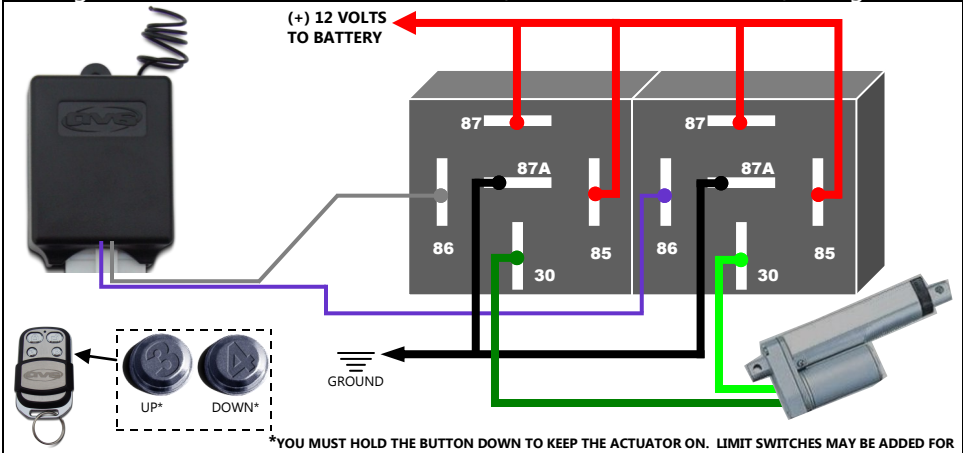
Wiring The Receiver To A NON-AVS Brand Shaved Door Kit Using Two Relays



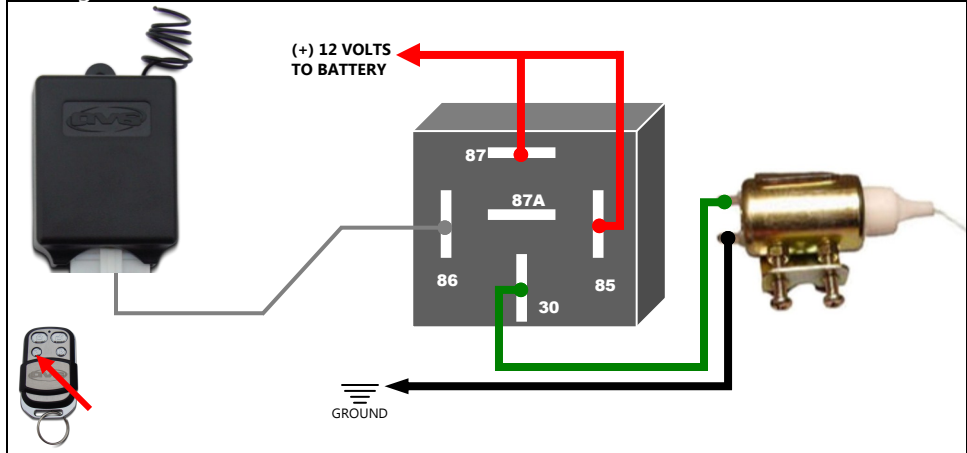
Wiring The Receiver To Aftermarket Door Lock Actuators (2-door or 4-door)



Wiring The Receiver To A Linear Actuator (Hoods, Bed Covers, Etc.) Using Two



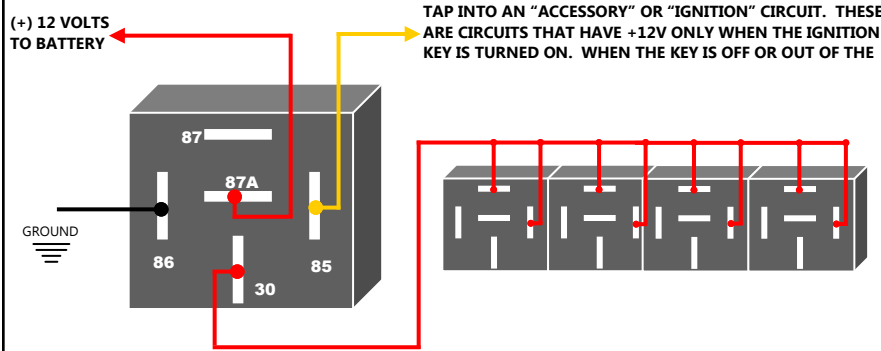
Wiring The Receiver To A Trunk Release Solenoid



PLEASE READ!!! WARNING & SAFETY RELAY DIAGRAM FOR AIR SUSPENSION

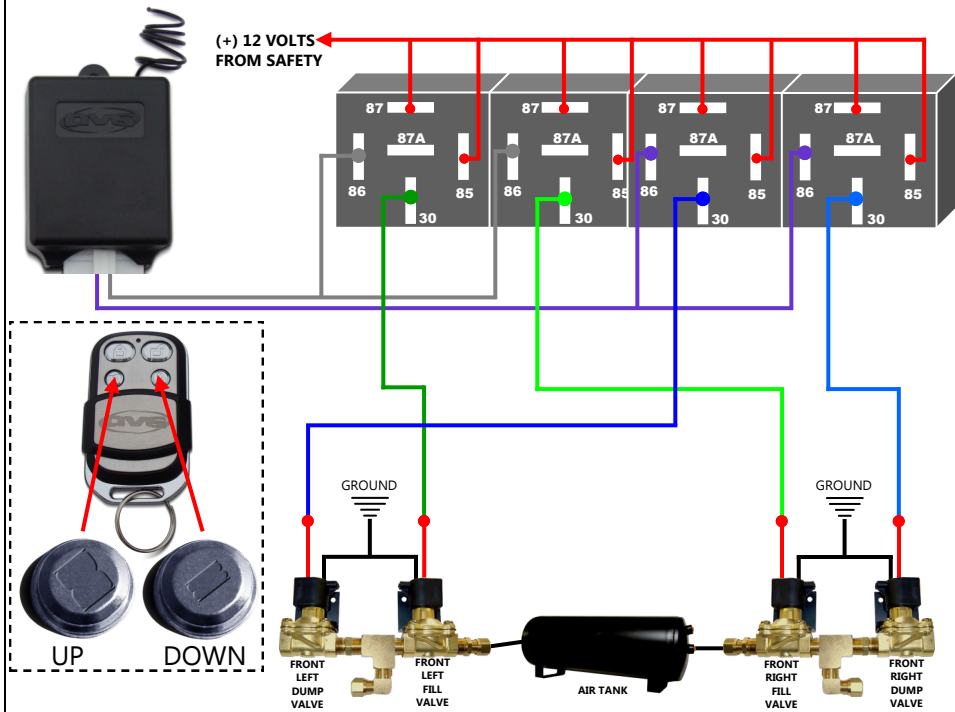
WARNING!!! WARNING!!! WARNING!!! WARNING!!!

If you plan on wiring the AVSREC4 to control an adjustable air suspension system, you **MUST** install a relay to inhibit control of the suspension while the vehicle is running. You will only be able to control the air suspension from the AVSREC4 while the vehicles ignition is turned off. In the unlikely case that someone has the same transmitting code as you or the AVSREC4 simply malfunctions, this safety relay will disconnect power from the other relays while the key is turned on. If you do not install the safety relay or if it is not installed properly, serious injury, property damage and/or death may occur! **DON'T BE STUPID! INSTALL THE SAFETY RELAY!!!**



Wiring The Receiver To Air Suspension Valves (Example given for controlling front up and down using 2 channels)

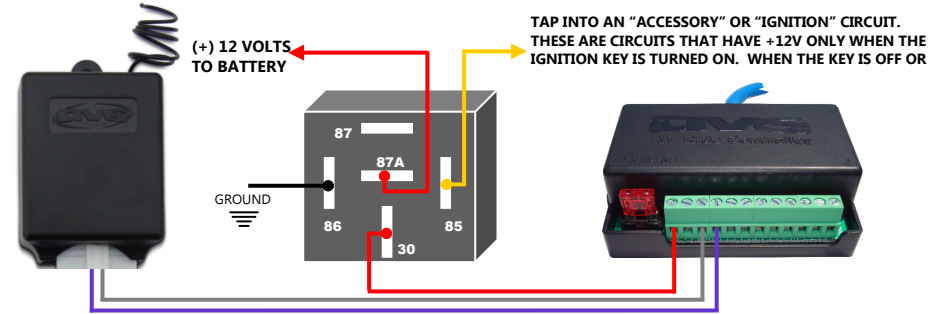
If you would like to have up/down control over the rear air suspension then copy the diagram below by adding an additional 4 relays and tie them into the rear valves using channels 1 & 2 to control them. For pancake up/down install an AVS 9-



Wiring The Receiver To Any AVS ARC-9 Air Ride Controllers

Connecting the AVSREC4 receiver to any of our AVS ARC-9 switch boxes is as simple as plugging in 2 wires and adding a relay for safety. If for some reason the receiver was to malfunction while the vehicle is in motion, an accident could result from it and cause property damage, personal injury or even death! **INSTALL THE RELAY!!!** Adding the safety relay will disconnect power to the switch box while the ignition key is on. In most states it is illegal to adjust a hydraulic or air suspension system while the vehicle is in motion anyways.

WARNING!!! DURATION OF OUTPUTS: when you activate any of the 4 outputs on your AVSREC4 they will be on for approximately .8 seconds or 8 milliseconds. While that does not sound like a very long amount of time, it can be to



Compatible With All ARC-9 Air Ride Controllers



