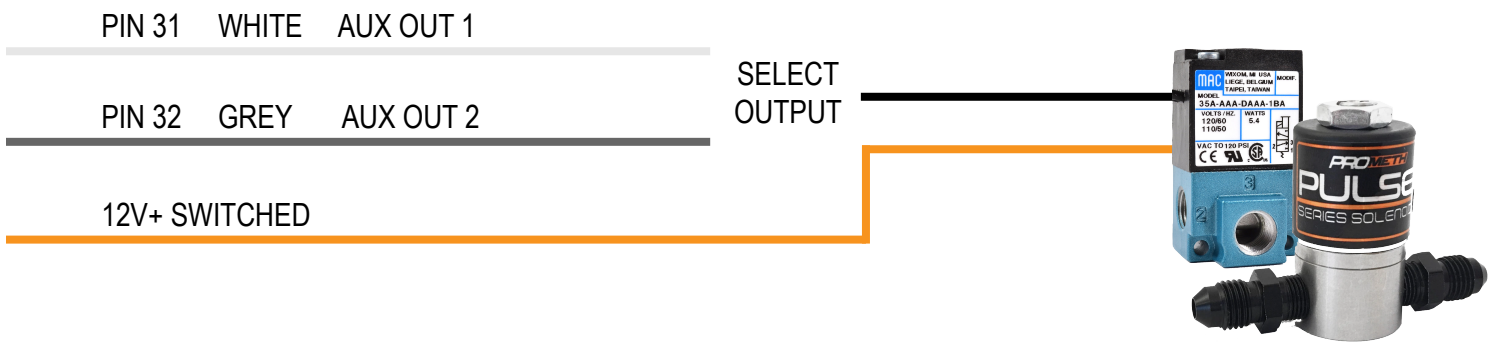


WIRING AUXILIARY OUTPUTS

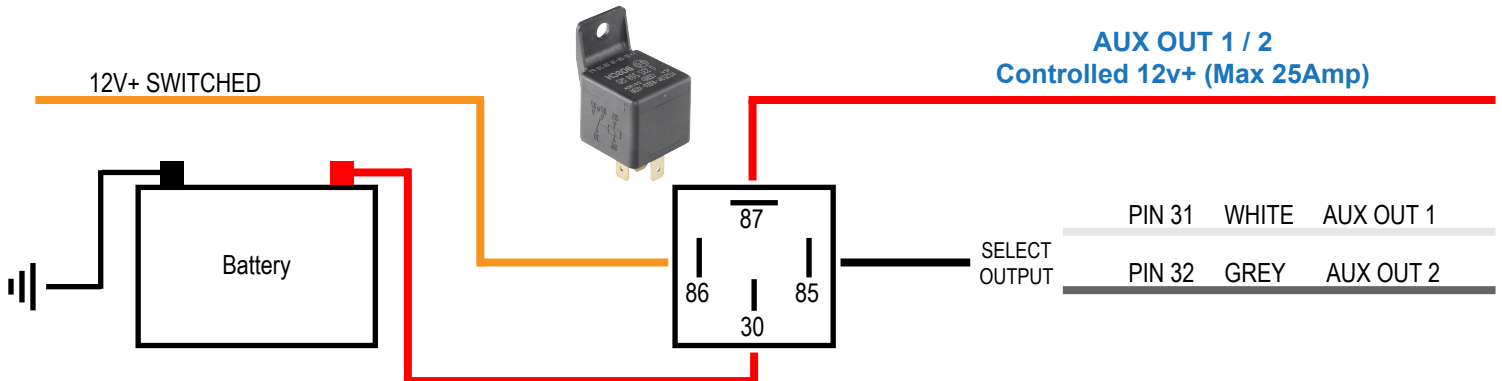
The MOTIV RE|FLEX has two auxiliary outputs that can be used to control a variety of automotive accessories. These outputs can be configured as a simple on/off signal or pulse width modulated (PWM) for more precise control. In both scenarios pin 31 and 32 are a low side / ground signals and need to be wired accordingly.

The way in which you wire the accessory you are installing will depend on the draw / amperage requirement of that accessory. Be sure to read the manual of that accessory to determine its max draw. Please refer to the following diagrams in order to determine which wiring method to use.

For PWM and simple on / off control of accessories that draw less than 2 amps you can wire the low side directly to pin 31 or 32. The 12v+ supply can either be tapped to a 12v+ switched wire on the RE|FLEX harness or wired directly to a 12v+ switched source in your vehicle. Many boost control solenoids (e.g MAC, AEM, GrimmSpeed, etc.), meth solenoids, and other similar accessories require less than 2 amps. Please refer to the item's manual to determine its maximum draw / amperage.



For accessories that require a simple on/off trigger, but draw higher amperage a basic 4 post automotive relay is required. These are often meth pumps, auxiliary fuel pumps, etc. For these installations, the auxiliary outputs on pin 31 and pin 32 will be used as a ground trigger for the relay to supply 12v+ directly from the vehicles battery. For any part that needs a simple on/off supply up to 25 amps you MUST use the following wiring diagram.

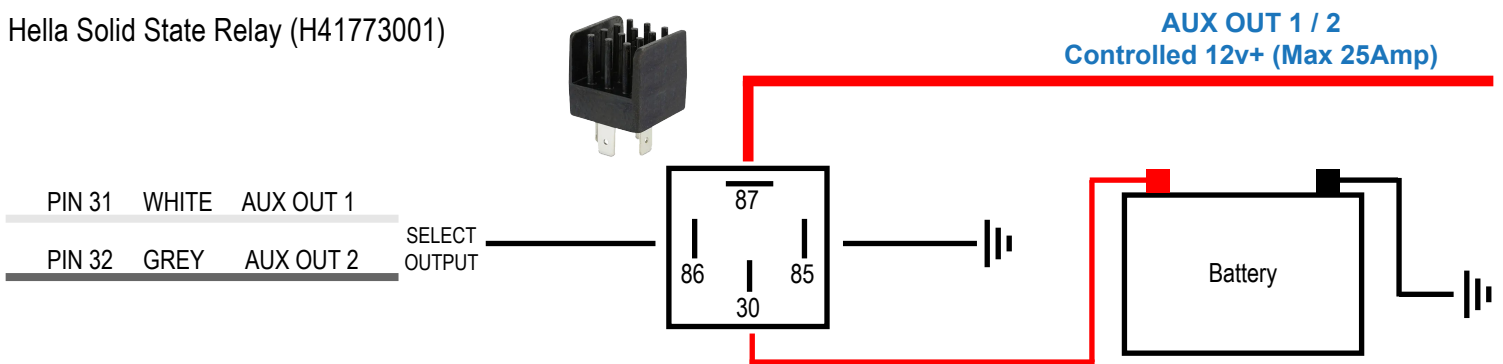


Please consult your tuner for any questions you may have. Incorrect wiring during installation can and will damage your RE|FLEX and void the warranty. If you have any further questions, please email support@motivmotorsport.com.

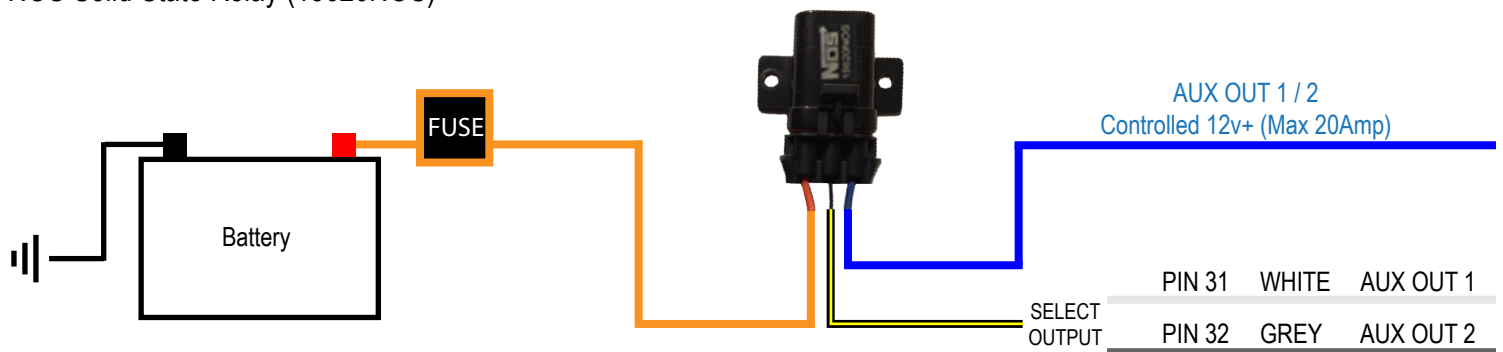
WIRING AUXILIARY OUTPUTS

Some accessories require a supply with a high amperage and the ability to cycle on and off very quickly for PWM control. One common example is a nitrous solenoid. These types of products can require up to 25 amps on the 12+ supply. As such, using a solid state relay like the NOS 15620 or the Hella H41773001 would be required for proper installation. The following diagrams outline how each of the different solid state relays are installed.

Hella Solid State Relay (H41773001)



NOS Solid State Relay (15620NOS)



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