

The AEM 10 Channel Peak & Hold Injector drivers contains 10 independent injector drive channels. It's typical function is to supply full battery voltage to fuel injectors for rapid current rise, in order to produce positive injector opening. When load current reaches 4.1A, the injector driver reduces the load current to 1.1A and operates as a constant current source. This condition holds the injector open and reduces system power dissipation. If the current fails to reach 4.1A within 5mS, the driver module automatically reduces the load current to 1.1A.

NOTE: It is strongly recommended that you have a wiring diagram for your specific vehicle before attempting to install the AEM P&H driver module.

TECHNICAL FEATURES

Operating Voltage:	8-18 volts, negative ground
RPM Capability:	Unlimited
Injector Triggers:	10
Trigger Waveform:	Output is activated when trigger is grounded
Trigger Impedance:	220 Ohm input impedance, pulled to 12V (60 mA draw)
Injector Outputs:	10
Output Current High:	4.15A Peak, Typical
Output Current Low:	1.15A Sustain, Typical
Peak Current Timeout:	5mS
Size:	5.5"L x 4.6"W x 1.4"H
Weight:	2.7 Lbs
Over temperature Shutdown:	115C (Nominal)

BATTERY

The AEM P&H Driver is designed for negative ground, 12 volt and 16 volt electrical systems.

WELDING

Before welding on your vehicle, disconnect the AEM P&H Driver power cables from the battery. Failure to do so may damage your ignition.

MOUNTING

The AEM P&H Driver may be mounted in any position as long as it is not in an enclosed location nor near a large heat source. It may not be mounted directly to the engine nor should it be mounted near or above the exhaust manifold(s).

WIRING

GENERAL WIRING RECOMMENDATIONS

- Solder wire joints for the most trouble-free connections.
- Always run wires away from direct heat and sharp edges.
- A poor ground connection is the leading cause of ignition problems.
- Connect ground wires directly to the negative (-) battery terminal or engine block.
- There must be a ground strap connecting the engine to the chassis.
- If connecting a ground to the engine block, ensure it is a clean, paint free metal surface.

AEM P&H INJECTOR DRIVER WIRE FUNCTIONS

There are 2 connectors on the end of the case:

GREY Connector (INPUT)

Name Color Function

1. Injector 1 In Pink Injector 1 Trigger input
2. Injector 2 In Brown Injector 2 Trigger input
3. Injector 3 In Orange Injector 3 Trigger input
4. Injector 4 In Dark Green Injector 4 Trigger input
5. Injector 5 In Grey Injector 5 Trigger input
6. Injector 6 In Dark Blue Injector 6 Trigger input
7. Injector 7 In Violet Injector 7 Trigger input
8. Injector 8 In Tan Injector 8 Trigger input
9. Injector 9 In Yellow Injector 9 Trigger input
10. Injector 10 In Light Green Injector 10 Trigger input
11. Power Ground Black Ground Input - Connect to the Battery (-) or a good chassis ground
12. Power Ground Black Ground Input - Connect to the Battery (-) or a good chassis ground

BLACK Connector (OUTPUT)

Name Color Function

1. Injector 1 Out Pink Injector 1 Output (ground side) connect 12V to other side of injector.
2. Injector 2 Out Brown Injector 2 Output (ground side) connect 12V to other side of injector.
3. Injector 3 Out Orange Injector 3 Output (ground side) connect 12V to other side of injector.
4. Injector 4 Out Dark Green Injector 4 Output (ground side) connect 12V to other side of injector.
5. Injector 5 Out Grey Injector 5 Output (ground side) connect 12V to other side of injector.
6. Injector 6 Out Dark Blue Injector 6 Output (ground side) connect 12V to other side of injector.
7. Injector 7 Out Violet Injector 7 Output (ground side) connect 12V to other side of injector.
8. Injector 8 Out Tan Injector 8 Output (ground side) connect 12V to other side of injector.
9. Injector 9 Out Yellow Injector 9 Output (ground side) connect 12V to other side of injector.
10. Injector 10 Out Light Green Injector 10 Output (ground side) connect 12V to other side of injector.
11. POS 12V Red Power Input - Connect to a switched +12v source.
12. POS 12V Red Power Input - Connect to a switched +12v source.

INJECTOR DRIVER REQUIRES
A LOW, OR GROUNDED INPUT
TO FIRE THE INJECTORS

