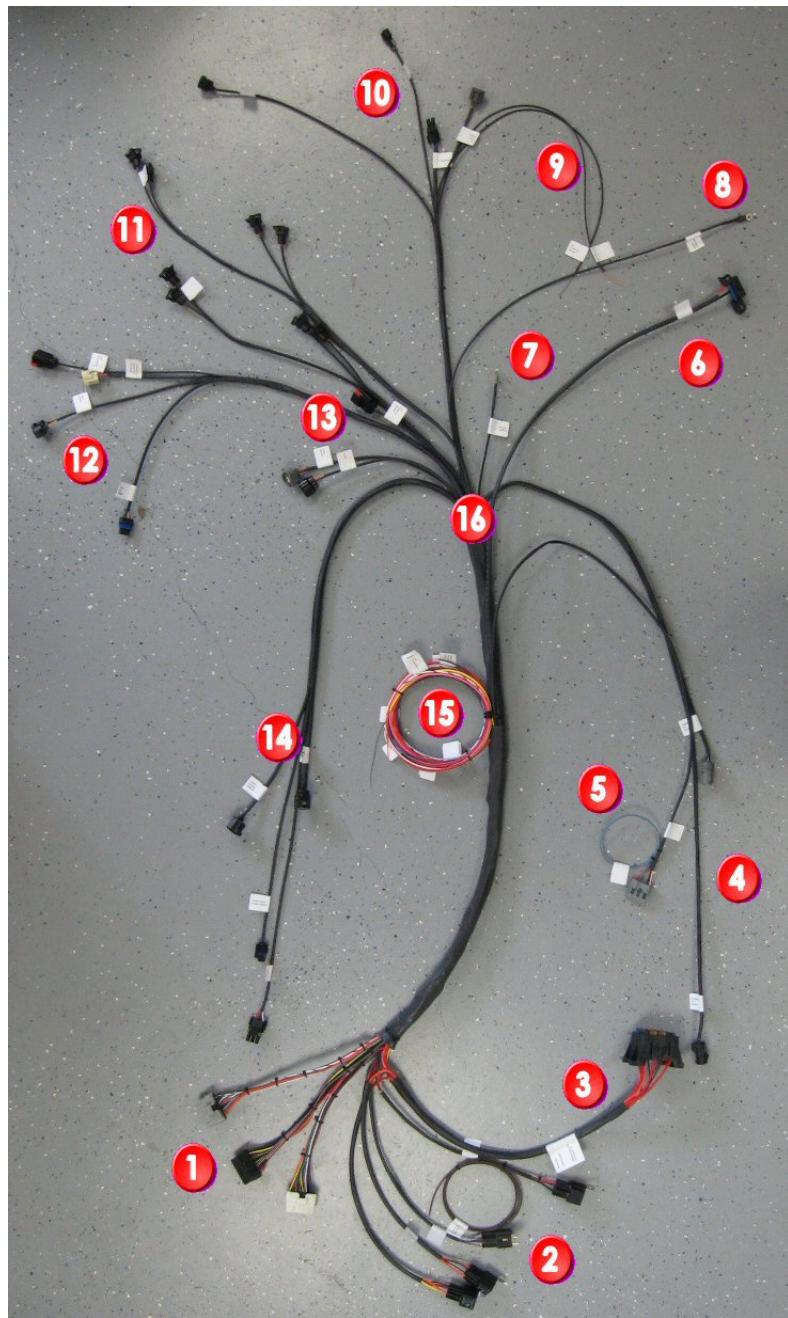




## **INSTALLATION INSTRUCTIONS**

**1996 & UP  
DODGE 5.2L/5.9L MAGNUM**

**HOT-ROD STYLE**



Our hotrod style harness is designed for the computer, fuse block and relays to be installed inside the vehicle under the dash. The engine and transmission connectors should be pushed out through a 2" (2 1/4" if using our grommet) hole in the firewall to wrap up and around the engine block. The hole in the firewall should be directly behind the passenger fuel rail down behind the head. It is best to start with the larger plugs first.

The beginning of the main trunk line (item #16) should be positioned directly behind and slightly below the passenger fuel rail when installed. The branches that contain the injectors should be zip-tied to the fuel rail so that all injectors plug in with no strain on the plugs.

Accessory items and items on the front of the engine block should hang over the front and be close to the correct sensors. Items on the sides of the block will fall down behind the heads and up under the exhaust manifolds. Transmission and O2 sensors will curve down and back on either side of the transmission.

Below is a list of all items marked on the photo:

1. **Computer Connectors** – 3 connectors are keyed so they must be inserted in the correct computer plug.
2. **Relays**
  - a. **Auto Shutdown Relay** – Power to injectors and coils.
  - b. **Fuel Pump Relay** – Power to fuel pump.
    - i. **Fuel Pump Hot Feed** – Connect to hot side of fuel pump.
  - c. **Starter Relay** – Power to starter solenoid.
  - d. **Transmission Relay** – Power to transmission. (automatic transmission)
3. **Fuse Block** – See attached diagram. Will not have backup lamp, brake light switch or transmission relay for manual shift transmission.
4. **O2 Sensors** – Both before and After catalytic converter O2's. Can eliminate the After cat, sensor if you are not running a converter.
5. **Brake Light Switch** – Above brake pedal. Has open wire that will power the brake lights. Used for torque converter unlock on automatic transmission systems.
6. **Data Link Connector** – Mount under dash for scanning with a scan-tool.
7. **Engine Ground** – Use transmission bell-housing bolt at back of engine block.
8. **Starter Solenoid** – On top of starter, activated by the starter relay to engage the starter.
9. **Engine Temp and Oil Pressure Gauge Wires** – See the Open wires listed below.
10. **Engine Temp Sensor** – Front top of intake on the right side.  
**Oil Pressure Sensor** – Rear of block.  
**Generator** – Accessory on front of block up high on the right side.  
**Coil** – Front Right of block directly in front of the exhaust manifold.
11. **Injectors** – Run down the fuel rails on either side of the intake manifold.

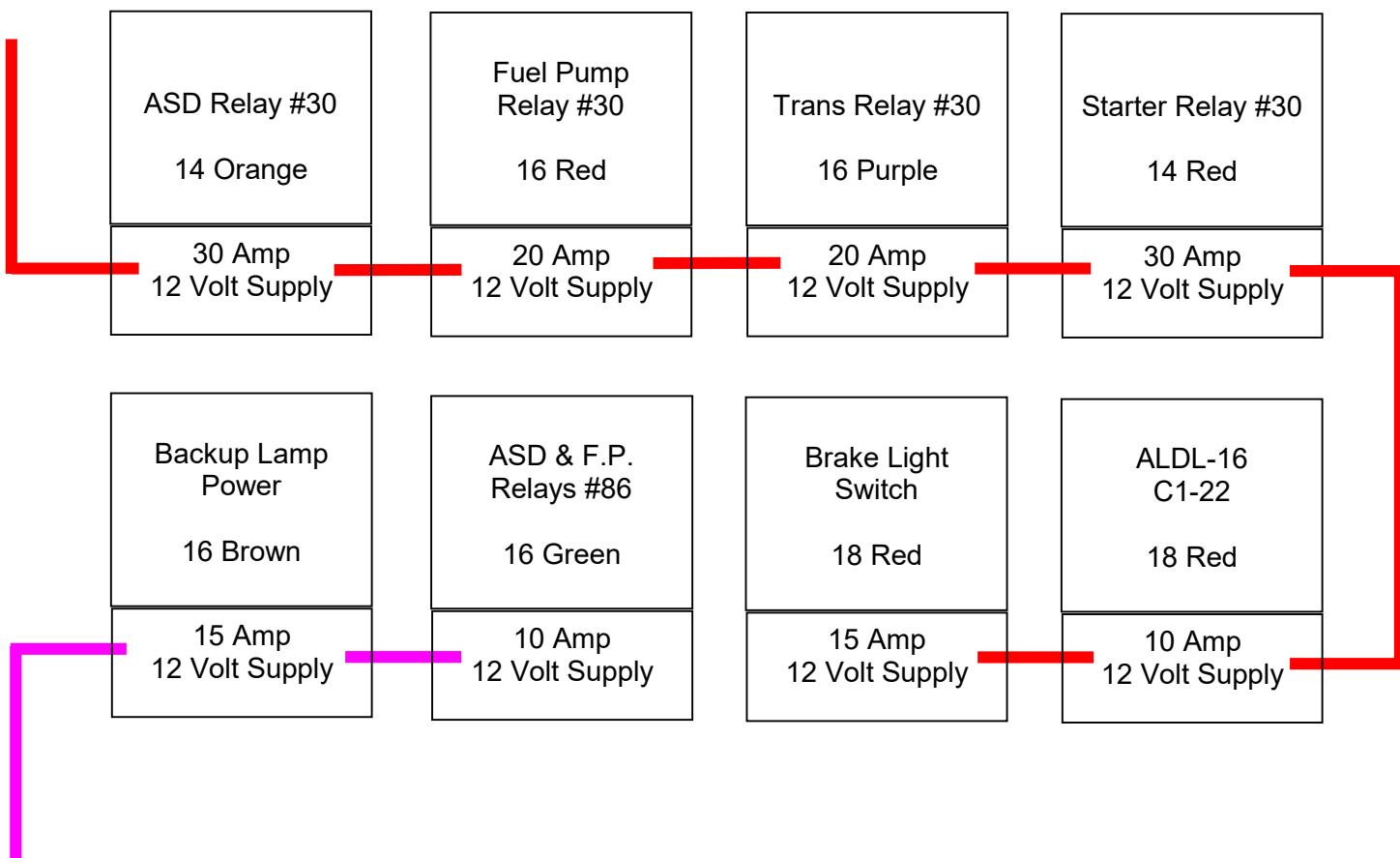
12. **A/C Compressor** – Accessory on front of block up high on the left side.  
**Throttle Position Sensor** – Top center of intake manifold.  
**Map Sensor** – Top center of intake manifold in front of Throttle Position Sensor.  
**Idle Air Motor** – Top center of intake manifold behind Throttle Position Sensor.  
**Intake Air Temp Sensor** – Front right of intake manifold.
13. **Cam Sensor** – Pigtail off distributor.  
**Crank Sensor** – Top rear of engine block behind intake manifold.
14. **Transmission Solenoid** – Midway down the left side of the transmission.  
**Trans Range Sensor** – Midway down the left side of the transmission.  
**Output Speed Sensor** – Left side of transmission behind Transmission Solenoid.  
**Vehicle Speed Sensor** – On tail shaft of transmission or transfer case.
15. **Open Wires** (wires vary by harness options)
  - a. **Red** – 12 Volt Hot at all times. (direct to battery)
  - b. **Pink** – 12 Volt Run and start. (ignition key on position)
  - c. **Yellow** – Ignition start. (ignition key crank position only)
  - d. **Brown** – Fuel Pump Hot Feed to power fuel pump.
  - e. **White/Pink** – Brake light output to rear brake lights. (auto)
  - f. **Purple** – Backup lamp output to rear backup lamps. (auto)
  - g. **Orange/White** – Overdrive off Switch to momentary ground. (auto)
  - h. **Green/Orange** – Overdrive off Lamp Driver. (auto)
  - i. **Blue/White** – A/C compressor clutch. (12 volts to activate compressor)
  - j. **Black/Yellow** – Clutch safety ground. (manual trans)

# DODGE 5.2L/5.9L MAGNUM AUTOMATIC

## FUSE BLOCK

\*\* Manual systems only have 2 bars and do not have Trans fuses or Brake light fuses.

### Battery Feed



### Ignition (Run & Start)

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