



Hemi 6.1L Fuel Rails Part # CPR4005001

INSTALLATION INSTRUCTIONS

Parts Included:

- (4) M6 screw
- (4) #10 flat washer
- (1) 1/8" NPT plug



WARNING:

We recommend a certified auto technician for installation. You should have the following – a fire extinguisher, eye goggles and fire resistant gloves. Extinguish all open flames, prohibit smoking and eliminate all sources of ignition in the area of the vehicle before proceeding with the installation

The OEM Fuel System is under pressure. This can cause serious injury if proper care is not taken. You may open the fuel tank filler cap to release the pressure. Some systems require additional steps using the Schrader valve. Please refer to your service manual for the procedure and precautions for relieving the fuel system pressure.

REMOVAL:

Once the engine has been given ample time for the engine to cool down, disconnect the negative battery cable and relieve fuel system pressure, referring to the appropriate vehicle service manual for the procedure on doing so.

1. Remove the air intake tube (air cleaner housing to engine).
2. Remove the air resonator box at the throttle body.
3. Remove necessary vacuum lines at throttle body.
4. Disconnect all spark plug cables from all spark plugs and ignition coils. Do not remove cables from cable routing tray. Note original cable positions while removing.
5. Remove spark plug cable tray from engine bay by releasing 4 retaining clips. Remove tray and cables from engine as an assembly.
6. Disconnect electrical connectors at each injector marking note of the location of each. To remove the connectors, push red colored slider away from injector. While pushing slider, depress tab and remove connector from injector. The factory fuel injection wiring harness is numerically tagged (INJ 1, INJ 2, etc.) for injector position identification.
7. Disconnect fuel line latch clip and fuel line at fuel rail. A special tool will be necessary for fuel line disconnection.
8. Disconnect electrical connectors at all throttle body sensors.

INSTALLIATION: Do not tighten -AN fittings if rails are installed on intake.

Apply a small amount of 3-IN-1 oil to each fuel injector o-ring. This will help in fuel rail installation.

1. Carefully place each of the fuel injectors in the corresponding fuel injector bore of the CPR fuel rails. Place each of the fuel rail / injector assemblies onto the lower intake manifold; ease the fuel injectors into the injector bores in the lower intake being careful that the injector does not dislodge itself from the fuel rail.
2. Reinstall the fuel rail mounting 4 bolts and tighten.
3. Install the supplied 1/8" NPT plug or a Fuel Pressure gauge on the fuel rail.
4. Install all cables to spark plugs and ignition coils. Connect electrical connector to throttle body.
5. Install electrical connectors to all 8 ignition coils.
6. Using an after-market fuel pressure regulator similar to Part # CPR 2001008 in conjunction with high pressure fuel lines and -8AN fittings similar to Part #CPR 1402001. Plumb the remainder of the fuel system. To connect to the OEM Supply and return lines, use adapter fitting Creative Performance Racing Part #CPR 1401405 or similar.

Ensure the any spilled gasoline and any gasoline soaked shop towels are cleaned up and removed from the vicinity of the vehicle!

7. Connect electrical connectors at all fuel injectors. Push connector onto injector and then push and lock red colored slider. Verify connector is locked to injector by lightly tugging on connector.
8. Connect fuel line latch clip and fuel line to fuel rail
9. Install air resonator to throttle body
10. Connect battery cable to battery.
11. Reconnect the battery and turn the ignition to the ON position WITHOUT starting the car. After several seconds turn the ignition key to the OFF position, wait one minute. Repeat this process until you pressurize the fuel system.
12. With fuel pressure in the system, check for leaks from and around all the fuel system components and all fuel lines and connections. If any fuel leaks are found, turn the ignition key to the OFF position, remove any spilled gasoline and repair the leak before proceeding.
13. Once the fuel system has been confirmed to be leak free, test drive the vehicle to insure proper operation and re-check the fuel system for leaks.

Thank you for choosing CPR Racing fuel rails. Have fun and see you at the track.

Goran Bogdanovic



Creative Performance Products
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Tech Line: 248-398-2397 www.cprracing.com

WARRANTY POLICY

CREATIVE PERFORMANCE RACING are warranted against defects in workmanship and materials for a period of *ONE (1) years* from the date of purchase. Proof-of-purchase is required; otherwise, the warranty period shall default to (90) day All products must be installed and operated according to the purpose for which they were intended, designed and specified. This warranty excludes items that are incorrectly installed, misused or abused by the customer as would be determined by examination upon return of the product. If a suspect product is returned to CPR for inspection and disposition, upon which it is determined that the product is in fact defective, the product shall be replaced free-of-charge or a credit will be issued (whichever is preferred). We will not assume responsibility for labor costs associated with the removal of suspect product or the cost of equipment downtime, or any other costs associated with concerns that are not specifically related to workmanship or materials.

Creative Performance Products, Inc sold under the Creative Performance Racing (CPR) program shall be warranted for a period of one (1) year in accordance with CPR' policies and the Terms and Conditions stated above.

In order to qualify for warranty coverage and disposition, customers must use the Returned materials Authorization (RMA) process (as explained below). Products that returned and determined to be OK shall not qualify for warranty coverage.

RMA RETURNED MATERIALS POLICY

Distributors who wish to return defective products for replacement or credit **MUST** use our **RETURNED MATERIALS AUTHORIZATION** (RMA) procedure. RMA numbers and instructions may be obtained from our Customer Service Team. Freight must be prepaid. The RMA number must be clearly marked on the shipping carton to be returned, and it must be noted on enclosed documents. A brief explanation identifying the failure mode or discrepancy must also be included. If we determine that the product is in fact defective and/or there was a discrepancy in shipping, a replacement or credit will be issued. If the product and/or shipment are determined to be OK, we will obtain disposition from the distributor as to whether to return the product or scrap it, in which case no credit shall be issued. Customer-damaged products are normally excluded from warranty consideration.

For overseas returns, we may allow for field scrap if it is determined that this is more economical approach. In most cases, however, products must be returned to allow for product analysis and subsequent corrective and preventive measures to be implemented. Returns from distributors whose customers return products for non-quality related reasons cannot be accepted. Send returns to: *Creative Performance Racing 106 E. Ten Mile Road, Michigan 48030, Attn: Quality Department*. Call 1-248-398-2397 and ask for customer service.

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