

INDUSTRIAL I N J E C T I O N



Dual CP3 Kit Installation Instructions

2003 - 2007

Dodge 5.9L Cummins



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Before installing any powder coated piping, the pipes should be thoroughly cleaned with hot soapy water inside and out.

STEP 1



Disconnect batteries and drain engine coolant.



STEP 2



Remove radiator hose, fan shroud bracket, and serpentine belt.



STEP 3



Remove factory idler pulley and replace with supplied smaller pulley utilizing the factory bolt, spacer, and supplied washer. Install back onto the engine.



STEP 4



Remove factory idler pulley and replace with supplied smaller pulley utilizing the factory bolt, spacer, and supplied washer. Install back onto the engine.



STEP 5



Remove factory intake horn for easier access to the fuel lines. This includes removing the hold down for the oil dipstick.



STEP 6



Remove high pressure feed line from the cp3 pump to the fuel rail.



STEP 7

Attention: These steps are only for early model trucks equipped with transmission kickdown/APPS bracket.

If you don't have an early model truck equipped with the transmission kickdown/APPS bracket - skip to step 10

The factory APPS bracket is located on the drivers side of the engine bay next to the factory intake elbow. You may need to remove a plastic cover on the APPS before accessing the bolts holding it in place on the bracket. Once the plastic cover is removed you can remove the 3 bolts holding the APPS to the factory bracket, then remove the 3 bolts on top holding the bracket to the block. Discard the factory bracket.

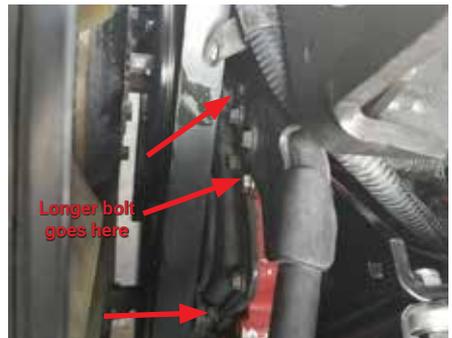


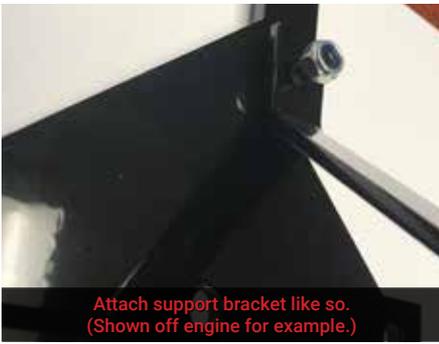
STEP 8

Attention: These steps are only for early model trucks equipped with transmission kickdown/APPS bracket.

Using the supplied hardware as shown, secure supplied APPS re-location bracket to the engine block. Attach support bracket to the center hole and don't fully tighten.

Note: The longer bolt will be used in the middle hole for the support bracket.



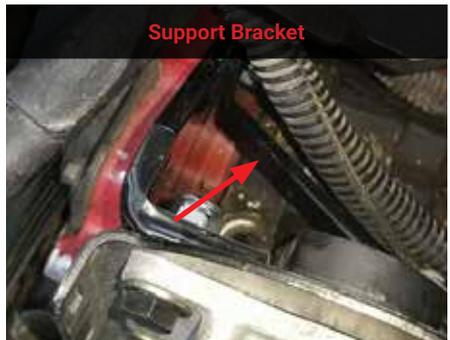


STEP 9

Attention: These steps are only for early model trucks equipped with transmission kickdown/APPS bracket.

Using the supplied hardware as shown, secure the APPS to the re-location bracket. Once everything is in place be sure to fully tighten all hardware and replace the black plastic cover if previously removed.

Note: The longer bolt will be used to secure the support bracket.



STEP 10

Install supplied 45° radiator hose connection onto the thermostat housing, then install supplied upper radiator hose re-location pipe as shown using factory bolt.

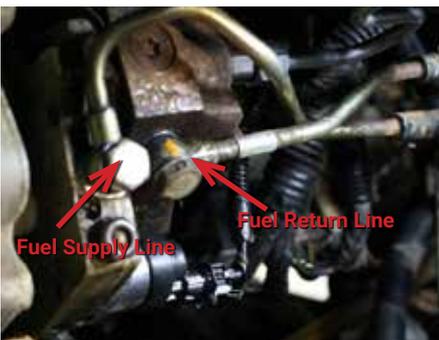


STEP 11

Mark and cut a section out of the factory fuel supply and fuel return lines using the supplied brass T. After cutting, insert the brass T into the fuel lines and tighten using supplied clamps. You may now install the supplied feed and return lines for the secondary pump.

Note: the longer of the two supplied 5/16 fuel lines will be used for the return and the shorter will be used for the supply.

Note: if your truck is equipped with an aftermarket fuel supply pump, you will need to use the supplied 1/2" fittings and hoses when you T into the fuel supply line.



STEP 12



Install lower supplied high pressure fuel lines and junction block. Do not fully tighten at this point.



STEP 13



Install supplied secondary CP3 mounting bracket onto cylinder head and tighten securely using supplied hardware.



STEP 14



Install supplied secondary CP3 pump and secure using supplied hardware.

Note: the longer bolt is used in the lower mounting location on the CP3.



STEP 15



Install supplied high pressure fuel line from the junction block to the secondary CP3. Do not fully tighten at this time.



STEP 16



Install fuel supply and fuel return lines from the brass T's previously installed into the factory fuel lines to the secondary pump, use supplied clamps and tighten.

Note: you may want to zip tie the return hose to the high pressure fuel line and make sure the hose isn't kinked.



STEP 17



At this time you can fully tighten all the high pressure fuel fittings.

Note: be sure when tightening the three connections on the junction block to back the junction block with a wrench. This will prevent bending of the fuel lines.



STEP 18



You will want to zip tie the fuel return line on the secondary CP3 to the high pressure fuel line and make sure that there aren't any kinks.



STEP 19



You can now re-install the factory intake elbow and tighten. Then install supplied oil dipstick re-location bracket using factory bolt on straight side and supplied hardware on the curved side.



STEP 19



Install 45° radiator hose from radiator to relocation pipe with supplied clamps and tighten.



STEP 20



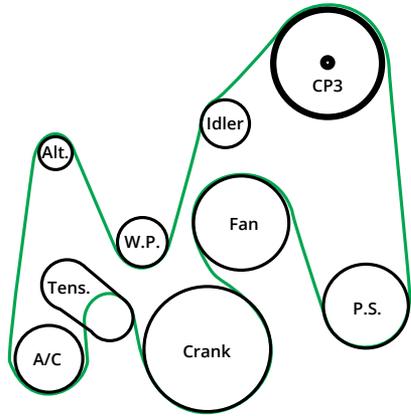
Install supplied secondary CP3 pulley using supplied hardware and tighten.



STEP 21



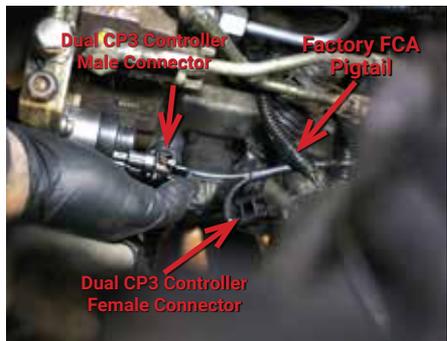
Install supplied serpentine belt. Follow the diagram below to route correctly.



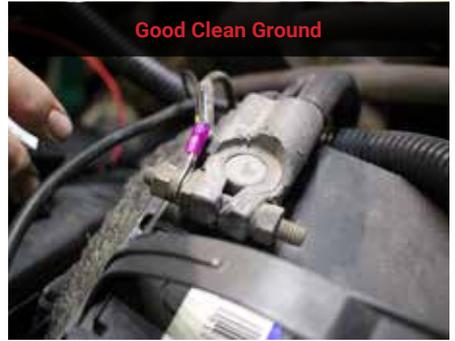
STEP 22



Before you install the dual cp3 controller, you will first need to reconnect the battery cables. Then start by first connecting the single connector to the secondary pump and the split connector to the factory pump and engine harness. Using a test light locate a key-on power source from the fuse box. Once located use supplied fuse tap to connect red wire from controller. Using the supplied eyelet crimp onto black wire from controller and connect to a good clean ground. Using supplied hardware securely mount the control box.



Continued on next page »



STEP 23



Before you start your engine, refill all fluids and double check all fittings. Start the truck and check for any leaks. Take the truck on a test drive to ensure everything is functioning properly.

Enjoy your Industrial Injection Dual CP3 kit.

When Reliability Counts

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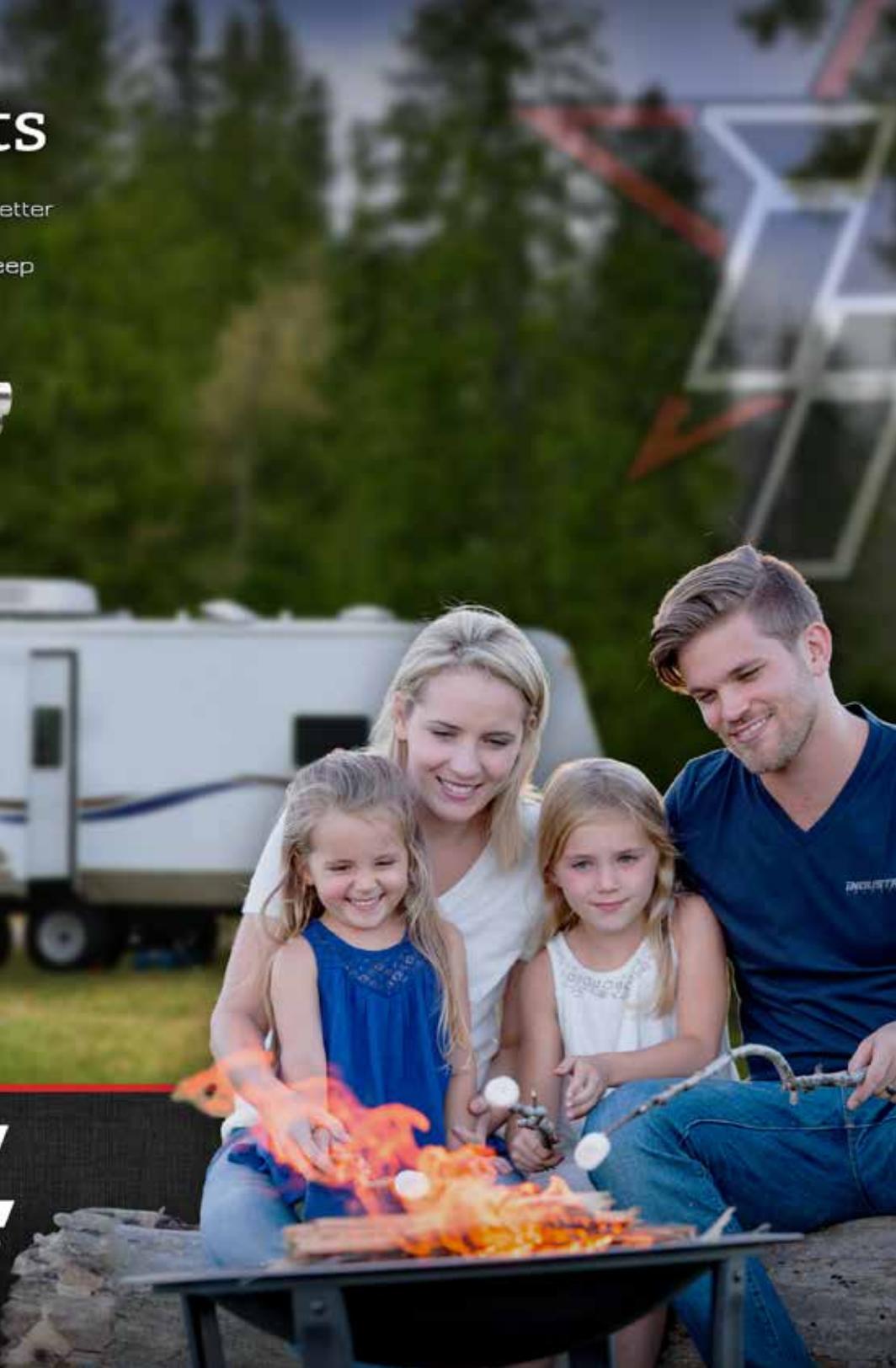
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