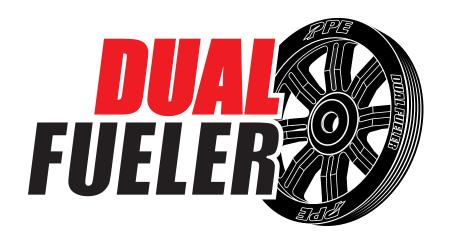


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Dual Fueler Kit

Dodge Cummins 5.9L

2003 - 2004		(213001100)
2003 - 2004	no pump	(213001000)
2004.5 - 2007		(213002000)
2004.5 - 2007	no pump	(213002100)

Installation Guide

Rev: 10/07/20 | v13C



Parts in Kit (2003-2004):



- 26. 8" Zip Ties (3)
- 5. 5/16" x 18 x 2" Bolt (2)
- 25. 8 x 0.5" Self-Tapping Screw (2)
- 6. 5/16 x 18 x 2.25 Bolt (1)
- 8. 18 x 1.5 Nut (1)
- 16. 5/16 x 18 Nut (3)
- 11. 5/16 Washer (3)
- 9. 18mm Washer (1)
- 21. 5/16" Brass Fuel Tee (2)
- 22. 5/16" Hose Clamp (8)
- 13. 10mm Washer (1)
- 7. 10 x 1.50 x 25 Bolt (3)
- 14. 8 x 1.25 x 12 Bolt (1)
- 18. 6 1.0 x 25 Bolt (1)
- 23. 2.25" Hose Clamp (3)
- 24. 2.5" Hose Clamp (1)32. H.P. 3 Way Fuel Block (1)
- 49. Idler Pulley (1)
- 34. Duel Fueler Controller (1)
- 39. H.P. Fuel Line 515-006-2170
- 41. H.P. Fuel Line 515-006-2172

- 17. 3/8" Nut (4)
- 12. 3/8" Washers (4)
- 10. 8 x 1.25 Nut (4)
- 15. 8mm Washer (4)
- 1. 8 x 1.25 x 30 Bolt (1)
- 3. 3/8 x 16 x 2 Bolt (1)
- 2. 8 x 1.25 x 25 Bolt (2)
- 4. 3/8 x 16 x 1.75 Bolt (2)
- 28. Transmission Kick Brace (1)
- 19. Fuel Line Bracket (1)
- 27. Dipstick Bracket (1)
- 40. H.P. Fuel Line 515-006-2171 (1)
- 36. 21" x 5/16" Fuel hose (1)
- 35. 18" x 5/16" Fuel Hose (1)
- 43. Coolant Reroute Tube Single Tab(1)
- 45. Transmission Kick Bracket (1)
- 46. Serpentine Belt 2003-2009 (1)
- 47. Duel Fueler Pump Bracket (1)
- 48. Duel Fueler Pump Pulley (1)
- 50. Coolant Hose Long "V" Shape
- 51. Coolant Hose Short



Parts in Kit (2004.5-2007):



- 26. 8" Zip Ties (3)
- 5. 5/16 x 18 x 2 Bolt (2)
- 25. 8 x 0.5" Self Tapping Screw (2)
- 6. 5/16" x 18 x 2.25" Bolt (1)
- 8. 18 x 1.5 Nut (1)
- 16. 5/16" x 18 Nut (3)
- 11. 5/16" Washer (3)
- 9. 18mm Washer (1)
- 21. 5/16" Brass Fuel Tee (2)
- 22. /16" Hose Clamp (8)
- 13. 10mm Washer (1)
- 7. 10 x 1.50 x 25 Bolt (3)
- 14. 8 x 1.25 x 12 Bolt (1)
- 18. 6 1.0 x 25 Bolt (1)
- 23. 2.25" Hose Clamp (3)
- 24. 2.5" Hose Clamp (1)
- 32. H.P. 3 Way Fuel Black (1)

- 49. Idler Pulley
- 34. Duel Fueler Controller
- 39. H.P. Fuel Line 515-006-2170 (1)
- 41. H.P. Fuel Line 515-006-2172 (1)
- 10. 8 x 1.25 Nut (1)
- 15. 8mm Washer (1)
- 19. Fuel Line Bracket (1)
- 27. Dipstick Bracket (1)
- 40. H.P. Fuel Line 515-006-2171
- 36. 21" x 5/16" Fuel Hose
- 35. 18" x 5/16" Fuel Hose
- 43. Coolant Reroute Tube Single Tab
- 46. Serpentine Belt 2003-2009
- 47. Dual Fueler Pump Bracket
- 48. Duel Fueler Pump Pulley
- 50. Coolant Hose Long "V" Shape
- 51. Coolant Hose Short



- 1) Remove the Radiator Hose, Fan Shroud Bracket and Engine Belt.
- 2) Remove the Idler Pulley, and replace with #5a Idler Pulley as shown (fig. 2a), by using the stock spacer (remove it from the stock pulley, fig. 2b) and insert #5b Washer as shown (fig. 2c, 2d). Install this assembly back onto engine (same place as fig. 2a).

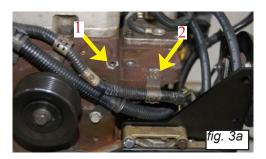








3) Remove the Harness wire bracket bolt, and move to the position as shown from arrow 1 to arrow 2 (fig. 3a).





4) Remove the inlet high pressure fuel line from the stock fuel pump (fig. 4a) and the fuel rail (fig 4b).





5) Remove 6 bolts on the assembly for the transmission kickdown (as shown). The transmission kickdown will be relocated.



6) Install #16a Radiator Pipe
(as shown) with stock
bolt and making sure to
reattach ground wire
(as shown).





7) Install #14 Dipstick Support
bracket by using the
stock bolt on arrow
1, and the supplied #14
bolt, washer and nut on
arrow 2.



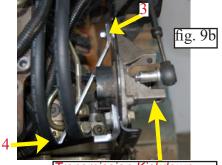
8)* Install #12a transmission
kickdown bracket as
shown by using the 3
#12b bolts washers and
nuts as shown. On arrow
2, use the longer 12b
bolt and don't secure
the nut or washer until
the next step.



*2003 and 2004 only.

9)* Secure transmission kickdown by bolting the #12a transmission kickdown bracket with the #13b transmission kickdown support bolt (fig. 9a), and secure the #13a transmission kickdown support as shown (fig. 9b). Use the longer #13b bolt on Arrow 3, and secure the other end of #13a with the longer bolt from #12b in step 8 (Arrow 4).





Transmission Kickdown

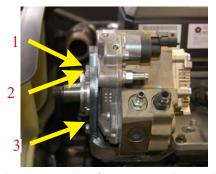


10) Install the #8a fuel pump bracket to the top front of the engine as shown below with 3 supplied #8b bolts.

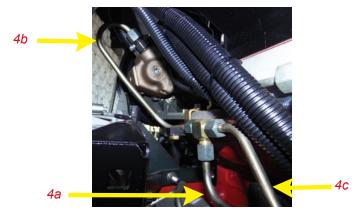




11) Install #6a Fuel Pump by sliding it into position onto the bracket, and bolt on with 3 #6b 5/16-18 bolts. See figure to the below. The longer #6b bolt is on arrow #3.



12) Install the #15 high pressure line fastener as shown. Install the #4a line from the factory CP3 pump to the T, #4b line from the second pump to the T and #4c line from the fuel rail to the T. Dual Fueler pump all connected with the #9 fuel T connector.

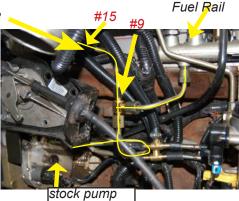




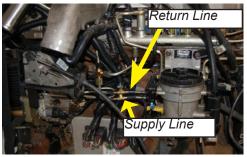
12) cont.

Dual Fueler High Pressure Line

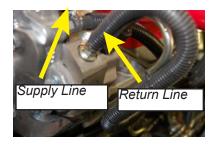




13) Cut the return fuel and supply line hose shout 3/4 the way along the length (as shown below), and insert #2 & #3 5/16" T fittings into the return fuel line and supply fuel line hoses. Secure with #11 hose clamps. Then connect the #2 supply line and #3 return line to the Dual Fueler Pump, secure with a #11 hose clamps.



14) Install Fuel Pump Pully, torque nut to 35 ft lbs.



15. Install the new engine belt.

Follow the belt routing below.

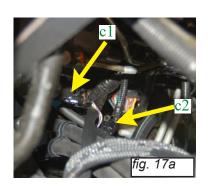




16) Install Radiator Hoses 16b & 16c to radiator pipe and radiator using #17a and #17b hose clamps (fig.16a).



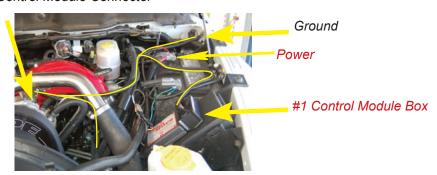
17) Disconnect OEM fuel pump connector c2 from stock fuel pump socket c1 and connect control module Y connector into stock fuel pump c1 and stock connector c2. (fig. 17a)





18) Route control module wiring from stock fuel pump and connect control module connector to dual fueler as shown. Route remaining control module to connect Ground to chassis ground and Power to battery. Mount #1 control module box with #19 Control Module Mounting Screws or tie straps.

Control Module Connector



19) Check coolant levels and add coolent as needed.



20) Place supplied Dual Fueler decal on the engine shield in the designated area for use during future smog testing.





Troubleshooting

Engine noisy - Too Much Fuel Pressure or fuel delivery code.

- Cause: Check the fuse is good and in the controller's fuse holder securely. All power connections are secure, and that connectors for both pumps are fully plugged in.
- 2) The lift pump pressure supplied to both CP3 pumps is too high. Supply pressure from lift the pump should be 12 15 PSI, not more.



DISCLAIMER OF LIABILITY

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