



(113063500 & 113067000)

LBZ/LMM
Dual Fueler
Installation Guide

DISCLAIMER OF LIABILITY

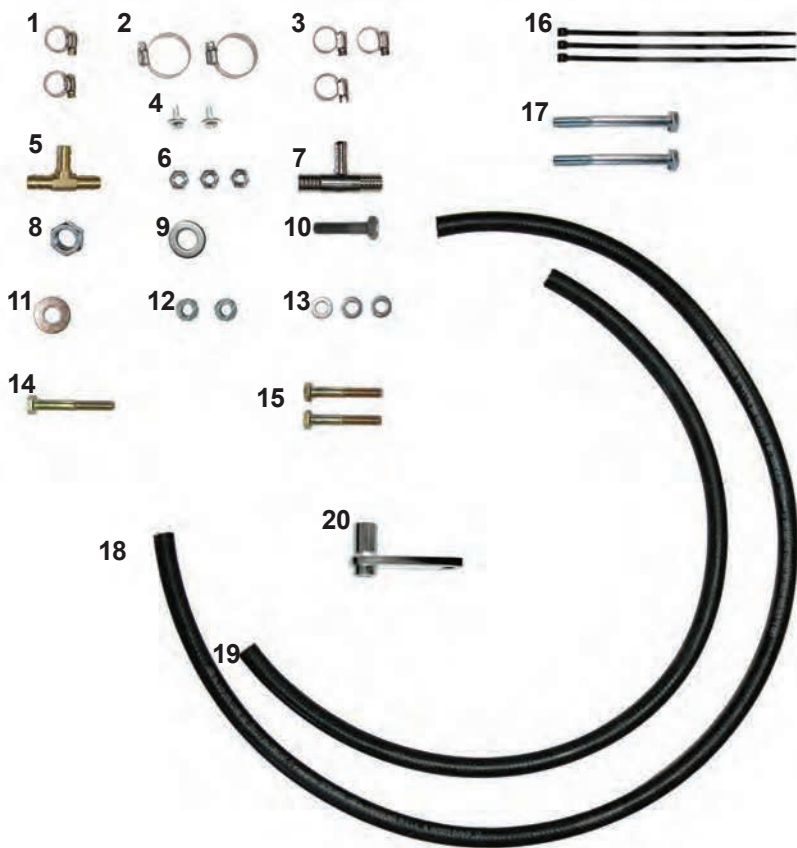
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BOX 1 CONTENTS



CONTENTS

- | | |
|--------------------------------------|------------------------------------------|
| 1 (2) 3/8" Hose Clamps | 12 (2) 10mm Washer |
| 2 (2) 7/8" Hose Clamps | 13 (3) 5/16" Washer |
| 3 (3) 5/16" Hose Clamps | 14 (1) 5/16 x 18 - 2.25 Bolt |
| 4 (2) 8 x 0.5 Self-Tapping Screws | 15 (2) 5/16" x 18 - 2" Bolts |
| 5 (1) 5/16" Brass Fuel T | 16 (3) 8" Zip Ties |
| 6 (3) 5/16" x 18 Nut | 17 (2) 10 x 1.5 - 100 Bolt |
| 7 (1) 1/2" x 3/8" x 1/2" S.S. Fuel T | 18 (1) 34" x 3/8" Hose w/33" Split Loom |
| 8 (1) 18 x 1.5 Pulley Nut | 19 (1) 20" x 5/16" Hose w/19" Split Loom |
| 9 (1) 18mm Washer | 20 (1) Fuel Pump Bracket (113061065) |
| 10 (1) 10 x 1.5 - 45 Bolt | |
| 11 (1) 10mm Idler Pulley Washer | |

BOX 2 CONTENTS



CONTENTS

- | | | | |
|---|----------------------------------------------|----|------------------------|
| 1 | (1) Dual Fueler Controller | 10 | (1) Fuel Block Bracket |
| 2 | (1) GM Idler Pulley | 11 | (1) DF Race Valve |
| 3 | (1) H.P. Line 515-006-2160 | | |
| 4 | (1) 3/8" Hose Clamps | | |
| 5 | (1) Idler Pulley Spacer | | |
| 6 | (4) 6 x 1.0 - 10 Bolts | | |
| 7 | (1) Fuel Pressure Reg Block | | |
| 8 | (1) 3/8" CP3 Pump Inlet Fittings | | |
| 9 | (1) 5/6" x 11" L Fuel Hose w/ 10" Split Loom | | |

BOX 3 CONTENTS



CONTENTS

- 1 (1) PPE GM Dual Fueler Pulley
- 2 (1) CP3 Pump Bracket
- 3 (1) H.P. Fuel Line (113063069 515-006-2159)
- 4 (1) Serpentine Belt (K061490)

Preparation

- Step 1:** *Disconnect both batteries.*
- Step 2:** *Remove factory air box and intake tube.
Disconnect electrical connectors*
- Step 3:** *Remove the upper plastic fan shroud.*
- Step 4:** *Remove the fan blade and fan clutch*
- Step 5:** *After removing the fan, remove the belt from all
of the pulleys*
- Step 6:** *If vehicle was equipped with dual alternators you will
need to remove the second alternator. It will not be
reused. Wrap wires in electrical tape.*
- Step 7:** *Remove the bottom idler pulley*
- Step 7:** *Remove both right side a/c bolts*

First: Install the "Dual Fueler" bracket and pulley if not assembled on pump.

1. Remove the belt and Install **#2 Idler Pulley** in the existing threaded hole on the engine bracket as shown below. Torque to 27 lb.ft.



Fig. 1

3. Locate Stock CP3 Pump **C** and locate stock return line **D** from Stock CP3 Pump. Cut the rubber hose and insert **#5 5/16"x5/16"x5/16"** 'T' connector. Use **#3** hose clamps to secure.

4. Plug the Wire Harness **E** into **#1 Control Module Plug**, then plug the other end of **#1 Control Module Plug** back into Stock CP3 Pump **C**.

2. Remove the **4 A/C Bolts** as shown and set the **A/C compressor** to the left of the engine to access the fuel line below.

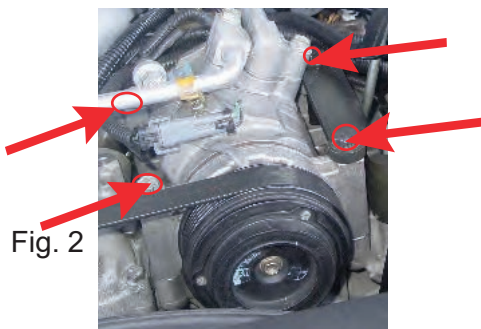
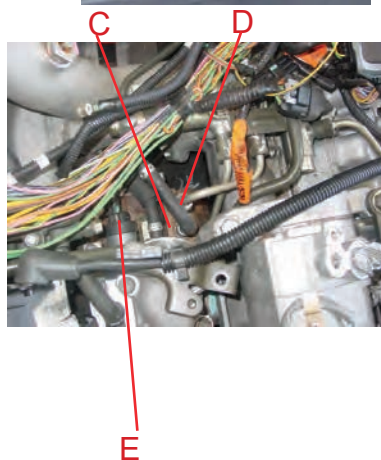
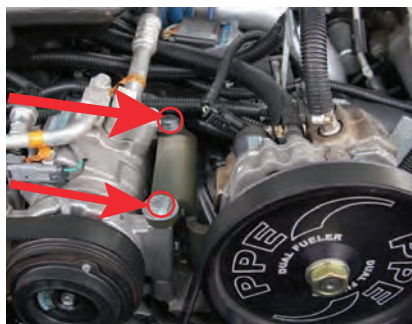


Fig. 2



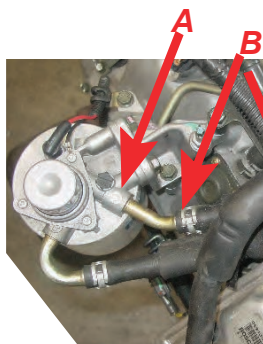
5. Place the A/C Compressor back into the original position. Place the **#2, (Dual Fueler Assembly bracket with pump)** on top of the Right A/C Compressor bolt holes and use **#17 bolts** to attach the Dual Fueler Bracket Assembly to the A/C Compressor, torque to 37 lb.ft. Save 1 original A/C bolt for the next step.



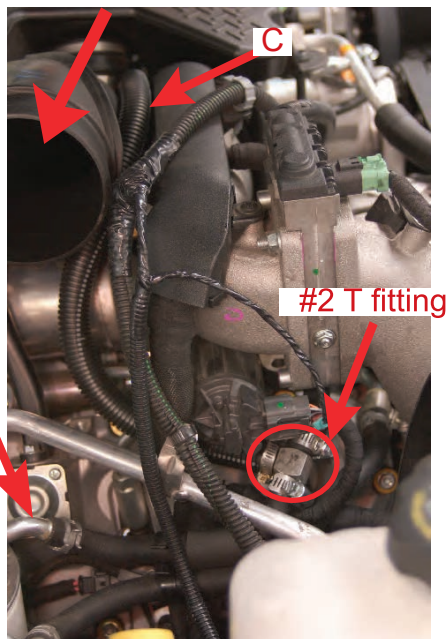
6. Install 1 factory A/C Bolt that you removed from the top of the A/C Unit into bottom of the Dual Fueler bracket.



7. Follow the flow direction arrow **A** exiting from the fuel filter housing in order to locate fuel supply hose **B**. Cut the stock fuel supply line and insert the supplied **#2 1/2" x 1/2" x 3/8" 'T'** connector in-between the 1/2" fuel supply line, secure with **#9 1/2"** hose clamps as shown. Route the Dual fuel intake line **C** as shown.



Air intake Tube



8. Continue routing the Dual Fueler Intake line as shown in the figure to the right by the **red line**.



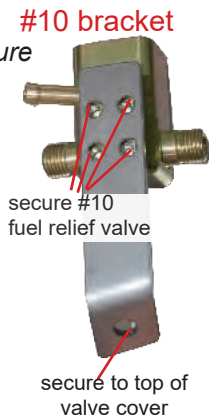
9. Remove the **Glow Plug Control Module** (that is shown below) to route the high pressure line to the fuel rail.
10. Remove the fuel rail pressure relief valve and install #11 DF Race Valve Torque 72-75 Ft. lbs



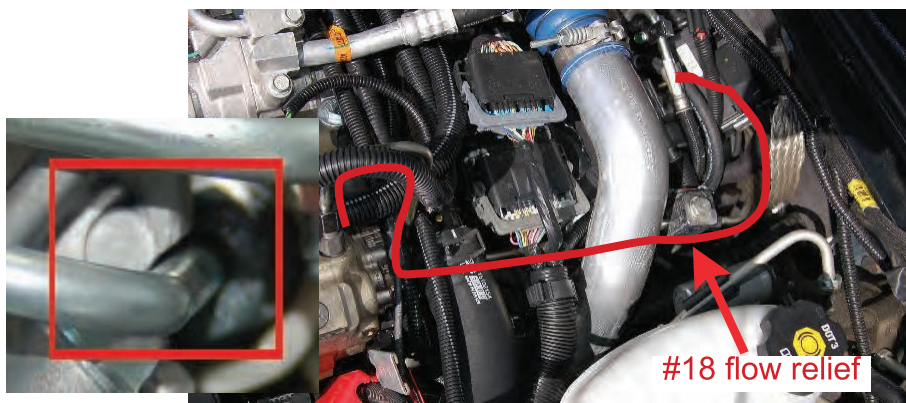
11. Remove the U-shaped tube from the fuel rail and the fuel return shown in the figure to the right.



- 12a. Secure the **#10 Flow Relief Bracket** to the **#10 Relief Valve** with the supplied (4) M6 x1.0 - 10mmL bolts and secure to the top of Valve Cover with stock bolt #7 Pressure Reg Block.



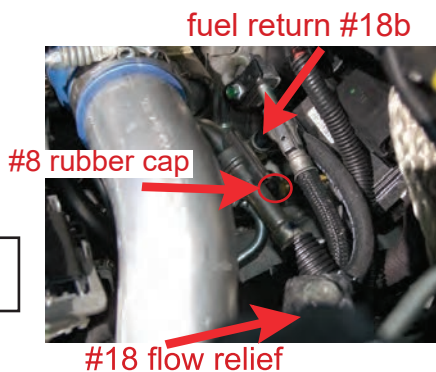
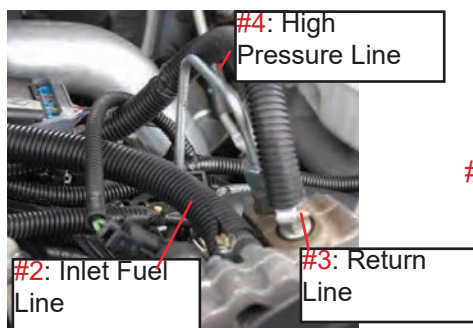
- 12b. Route the **#3 high pressure line** under the radiator hose as shown to **#18 flow relief**. Route the **#3 high pressure line** under removed glow plug control module to fuel rail and install onto the **#7 fuel rail fitting**. Torque the **#4 high pressure line nut** on all 4 ends to 30 ft.lb. (view photo for this step on the next page)



13. Grind the glow plug bracket as seen in the image above.

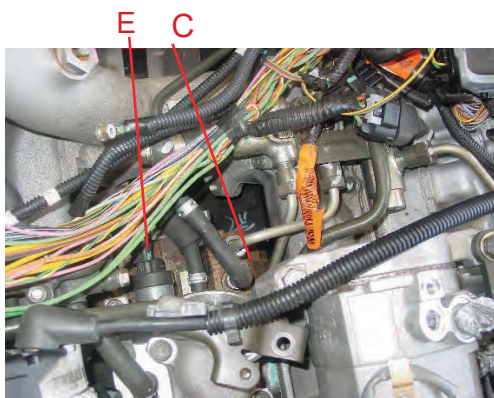
15. Connect the fuel return line from **#18a fuel relief fitting** to **fuel return #18b**. Install the **#8 Rubber Cap** on the Fuel Rail open fitting.

14. Attach the lines by part number as shown below:



16. Install Glow Plug Control Module back to its original position.

17. Locate the Stock CP3 Pump **C**, and locate the electronic control wire harness **E**. Unplug wire the Harness **E**.



18. Route **#1**, (Control Module) Wiring from Stock CP3 Pump **C** as shown and attach to other wiring with **#1-g**(tie straps). Connect **#1-d** to back of Dual Fueler CP3 Pump.



19. Temporarily remove the Metal Support **G** as shown by removing 4 bolts **H**, and set them aside to remove the fuse box cover **F**. **#1** will be tucked inside fuse box cover **F**.



20. Remove the Fuse box Cover **F**. Tuck **#1 Control Module** inside the top of the fuse box cover **F**. Replace fuse box cover **F**, taking care of not to pinch the harness, and re-assemble the stock parts **G** and **H** as shown in step 17.

21. Connect **#1-b**Red Wire to 12V constant battery jumper terminal stud, and **#1-c**ground wire to terminal stud mounting bolt as shown. Insert 10 Amp Fuse in #1-a.

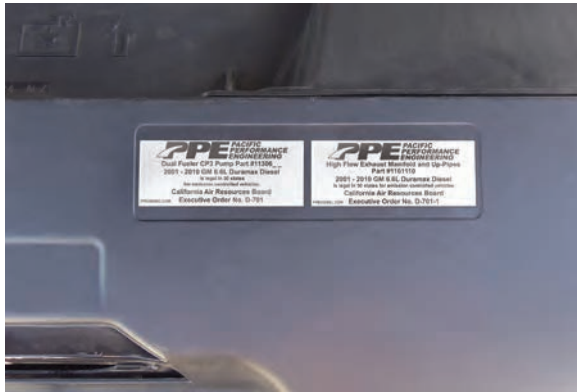
22. Route **#4** (Replacement Belt) As shown below.



23. Prime fuel filter pump to bleed air from system.

Start engine.

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



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