



LML
Dual Fueler
Installation Guide

DISCLAIMER OF LIABILITY

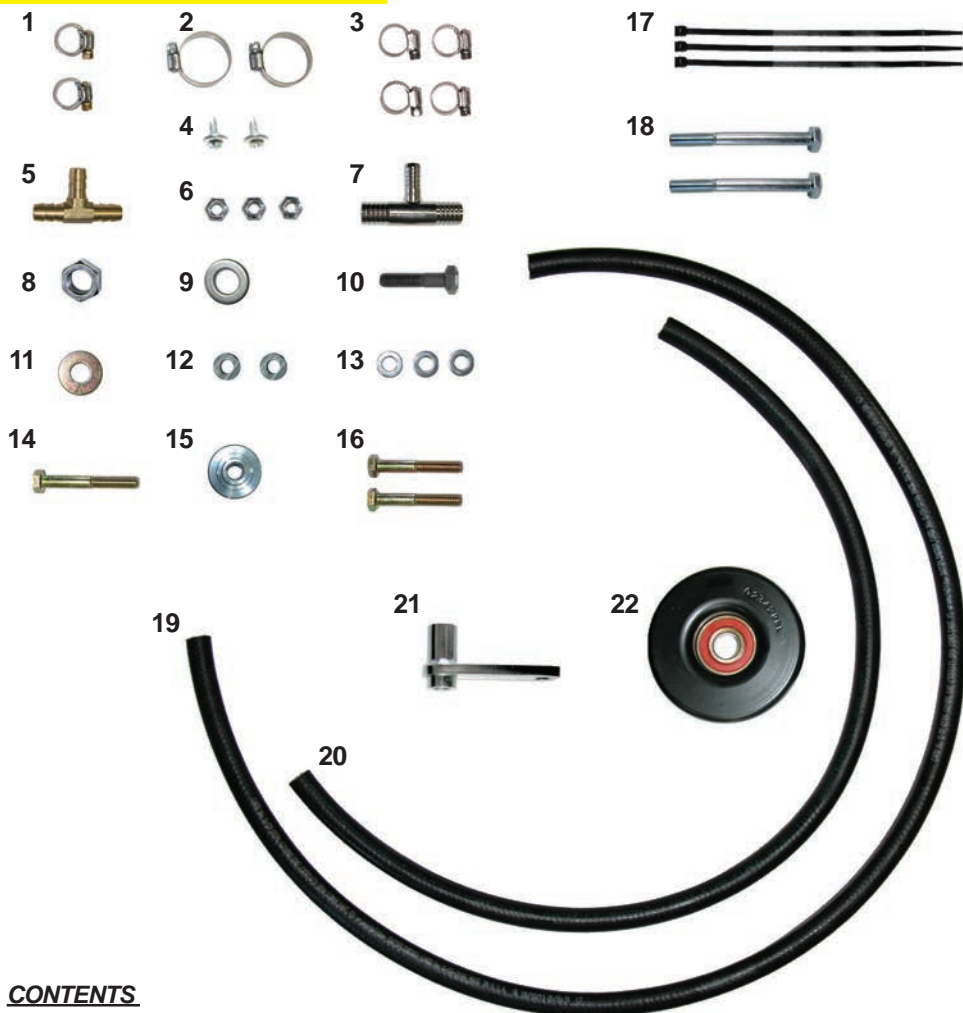
This is a performance product which increases horsepower above and beyond factory specifications. As a result, more horsepower creates more stress on the drivetrain components, which could result in drivetrain failure. This product is intended for off-road use only. Use at your own risk.

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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 (4) 5/16" Hose Clamps | 14 (1) 5/16 x 18 - 2.25 Bolt |
| 4 (2) 8 x 0.5 Self-Tapping Screws | 15 (1) Idler Pulley Spacer |
| 5 (1) 5/16" Brass Fuel T | 16 (2) 5/16" x 18 - 2" Bolts |
| 6 (3) 5/16" x 18 Nut | 17 (3) 8" Zip Ties |
| 7 (1) 1/2" x 1/2" x 3/8" S.S. Fuel T | 18 (2) 10 x 1.5 - 100 Bolt |
| 8 (1) 18 x 1.5 Pulley Nut | 19 (1) 34" x 3/8" Hose w/33" Split Loom |
| 9 (1) 18mm Washer | 20 (1) 20" x 5/16" Hose w/19" Split Loom |
| 10 (1) 10 x 1.5 - 45 Bolt | 21 (1) Fuel Pump Bracket (113061065) |
| 11 (1) 10mm Idler Pulley Washer | 22 (1) GM Idler Pulley |

BOX 2 CONTENTS



CONTENTS

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|---|------------------------------|-----|-----------------------------------|
| 1 | (1) Dual Fueler Controller | 10 | (1) 6MM nut and (1) bolt |
| 2 | (1) GM Idler Pulley | 11 | (1) Small P.S. Reservoir Bracket |
| 3 | (1) H.P. Line 515-006-2160 | 12 | (1) Barbed Fitting |
| 4 | (2) 1.5" Hose Clamps (X) | 13 | (2) 3/8" CP3 Pump Inlet Fittings |
| 5 | (8) 3/8" Hose Clamps | 14 | (1) Fuel Pressure Reg Block |
| 6 | (1) Idler Pulley Spacer | 15 | (1) Fuel Block Bracket (X) |
| 7 | (1) Ported Fuel Rail Fitting | 16 | (1) 10mm Idler Pulley Flat Washer |
| 8 | (4) 6 x 1.0 - 10 Bolts | 17* | (1) CP3 Bracket Spacer |
| 9 | (1) 10 x 1.5 - 45 Bolt | | |

* .750 O.D., .430" I.D., 2.750" L

BOX 3 CONTENTS



CONTENTS

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|---|---------------------------------------------|----|-----------------------------------|
| 1 | (1) P.S. Reservoir Hose (26" L, 5/8" I.D.) | 7 | (1) P.S. Bracket Bolts and Nuts |
| 2 | (1) Braided Line (21" L, 3/8" I.D.) | 8 | (1) P.S. Reservoir |
| 3 | (1) Fuel Feed Line (CP3) (31" L, 3/8" I.D.) | 9 | (1) H.P. Fuel Line (113063671) |
| 4 | (1) PPE GM Dual Fueler Pulley | 10 | (1) Updated P.S. Reservoir |
| 5 | (1) CP3 Pump Bracket | 11 | (1) Updated P.S. Reservoir O-Ring |
| 6 | (1) Large P. S. Reservoir Bracket | 12 | (2) Updated P.S. Reservoir Clips |
| | | 13 | (1) Green Serpentine Belt |

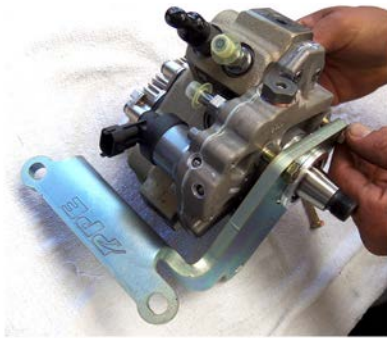
Preparation

- Step 1:** *Disconnect both batteries.*
- Step 2:** *Remove engine bay cover.*
- Step 3:** *Remove skid plates for easy access.*
- Step 4:** *Remove factory air box and intake tube. Disconnect electrical connectors.*
- Step 5:** *Remove the upper plastic fan shroud.*
- Step 6:** *Remove the fan blade and fan clutch.*
- Step 7:** *After removing the fan, remove the belt from all of the pulleys.*
- Step 8:** *If vehicle was equipped with dual alternators you will need to remove the second alternator if it will not be reused. Wrap wires in electrical tape.*
- Step 9:** *Remove the bottom idler pulley.*
- Step 10:** *Disconnect the power steering hoses.*
- Step 11:** *Remove the three power steering bolts.*
- Step 12:** *Remove the power steering pump assembly from the vehicle.*
- Step 13:** *Remove the power steering fluid reservoir.*
- Step 14:** *Remove driver-side intercooler pipe.*
- Step 15:** *Disconnect and remove the fuel pressure sensor from the back of the driver-side fuel rail.*
- Step 16:** *Remove the heat shield on top of the fuel lines.*
- Step 17:** *Remove the fuel return line.*

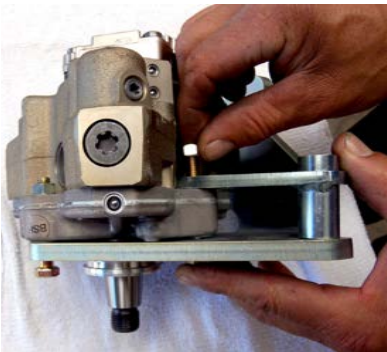
Installation



Step 1: *Install the new PPE updated Power Steering Reservoir from the kit on your OEM steering pump using clips and O-Ring. (Box 3, item 10, 11, 12)*



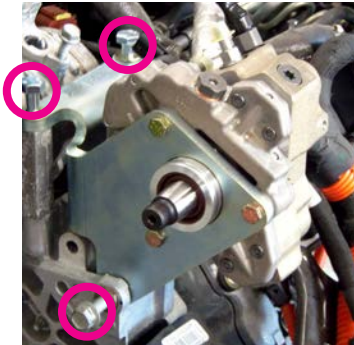
Step 2: *Install CP3 Fuel Pump to CP3 Pump Bracket. (Box 1, items 6, 13, 16)*



Step 3: *Install CP3 Fuel Pump and CP3 Pump Bracket to Fuel Pump Support Bracket. (Box 1, items 6, 13, 14)*



Step 4: *Install CP3 Bracket Spacer to the A/C compressor mount. (Box 2, item 16)*



Step 5: *Install the mounted CP3 Fuel Pump and Support Bracket to the top of the Air Compressor mount using bolts and washers and tighten to secure. (Box 1, item 18)*

Thread OEM bolt through the bottom side and tighten to secure.



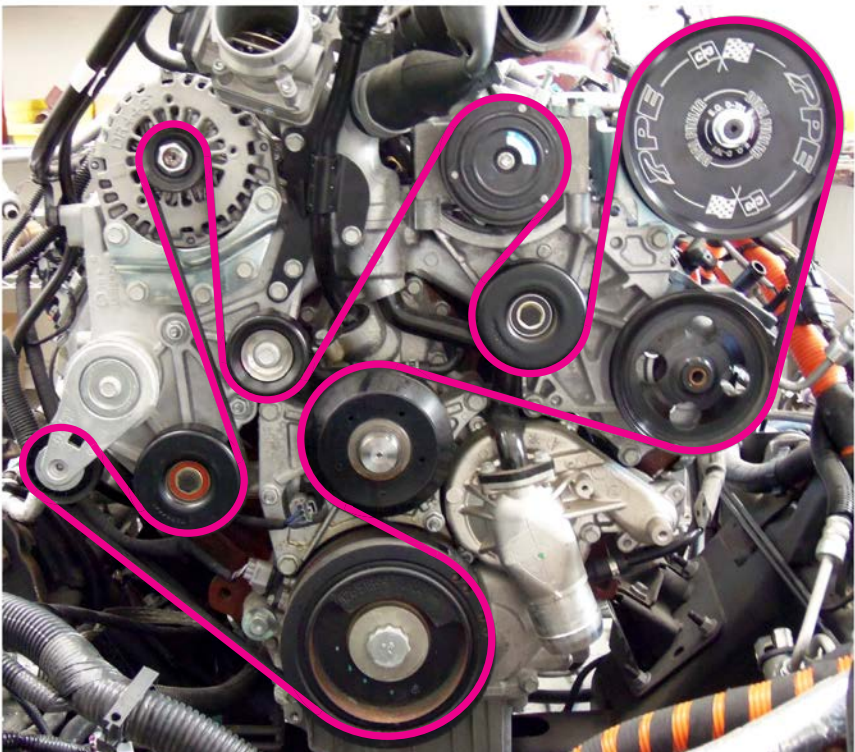
Step 6: *Install new belt pulleys. (Box 1, item 10, 11, 15, 22) (Box 2, items 2, 6, 9, 16)*



Step 7: *Install the Dual Fueler Pulley
(Box 1, items 8, 9)
(Box 3, item 4)*

(Torque nut to 48 ft lbs).

Step 8: *Install the new Serpentine Belt as
shown.
(Box 3, item 13)*





Step 9: *Replace CP4 and CP3 inlet fittings with the PPE 3/8" fittings (Box 2, item 13).*



Step 10: *Cut the supply fuel line after the fuel filter and install the new PPE 1/2" to 3/8" "T" fitting to the fuel line. (Box 1, item 7)*



Step 11: *Install and route the CP3 feed line under the throttle valve, on top of alternator and connect it to the "T" fitting.*



Step 12: *Install the new Fuel Hoses to the fuel return as shown.*



Step 13: *Install the Fuel Line Junction Block to the Bracket using 6 x 1.0 - 10 Bolts to the engine (only finger-tight for now). (Box2, items 8, 14, 15)*



Step 14: *Install the fuel sensor to the Fuel Junction Block.*



Step 15: *Install the Hard Fuel Line from the back of the fuel rail to the Fuel Junction Block (only finger-tight for now) (Box 3, item 9)*



Step 16: *Install the Hard fuel line from the CP3 to the Junction Block.*

Step 17: *Tighten both hard lines and Fuel Junction Block bracket.*



Step 16: Reinstall the driver side intercooler tube.

Step 17: Reconnect the OEM power steering reservoir.

Step 18: Replace factory power steering reservoir line with PPE 3/8" fitting and hose.

Step 19: Install PPE 5/8" hose from power steering reservoir to second power steering reservoir.



Step 20: Strip some of the paint on large Power Steering Reservoir Bracket for the ground wire. (Box 3, item 6)

Step 21: Mount large Power Steering Bracket (item call out #6, Box 3) using existing fasteners on the firewall.



Step 22: Mount Power Steering Reservoir to Power Steering Reservoir Bracket mounted on firewall.

Small Power Steering Reservoir Bracket mounts to back of Power Steering Reservoir and secures reservoir to firewall. (Box 2, item 11)

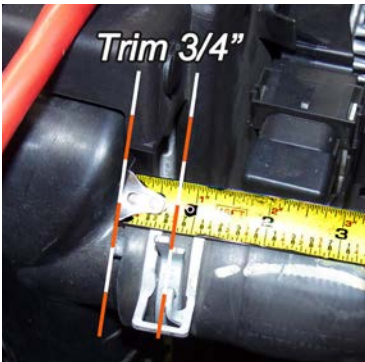
Step 23: *Mount Dual Fueler Controller inside engine bay.
(Box 2, item 1)*

Step 24: *Route Controller wiring*



Step 25: *Connect Dual Fueler Controller to Dual Fueler power and ground.*

Step 26: *Reinstall factory fan blade and shroud.*



Step 27: *Remove upper radiator hose and trim off 3/4\" from the driver side where it mounts to the radiator to make clearance for the Dual Fueler pulley.*

Step 28: *Reinstall factory upper radiator hose clamp.*

Step 29: *Top off coolant.*

Step 30: *Add power steering fluid.*

Step 31: *Start vehicle and check for leaks.*