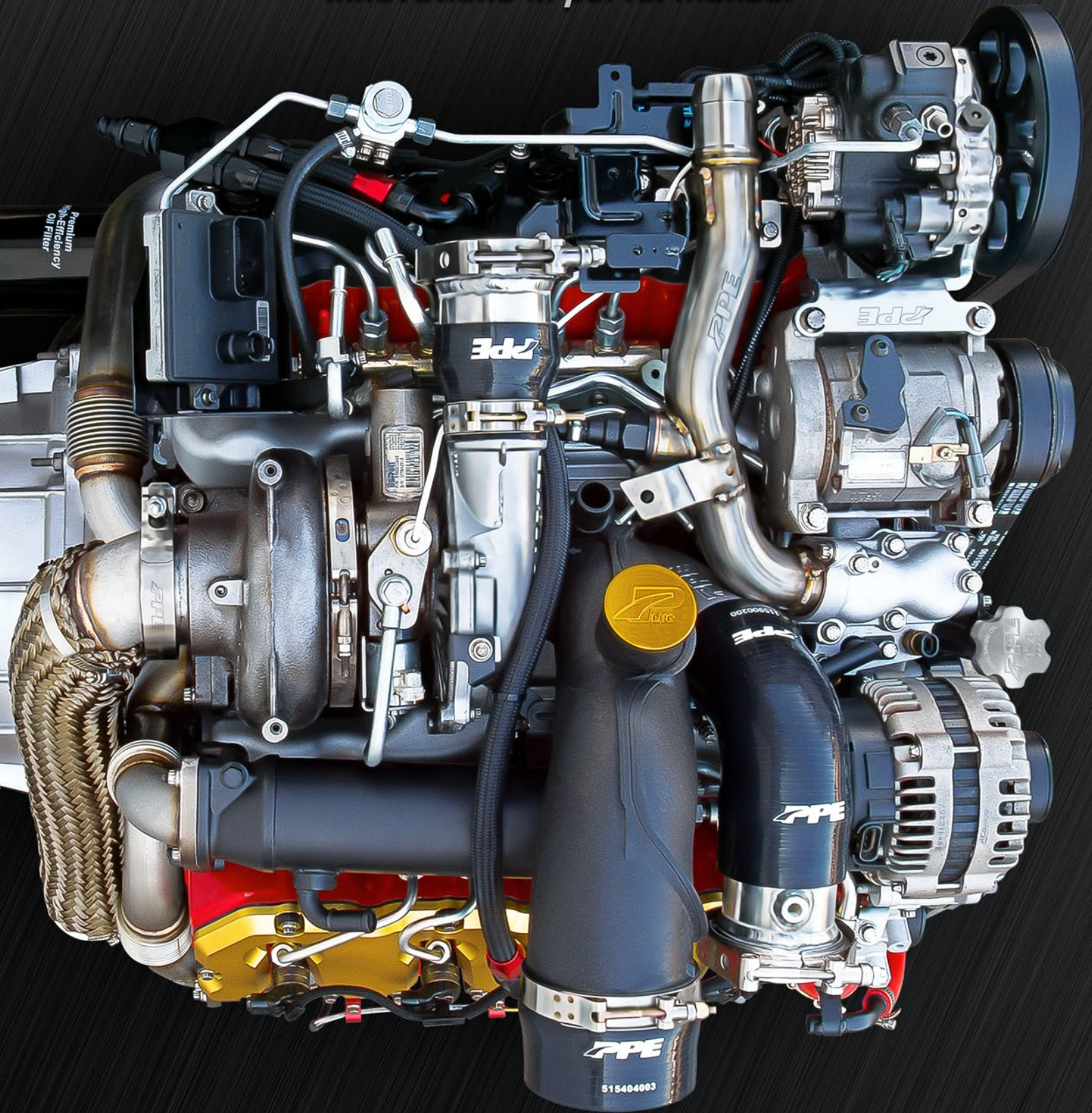
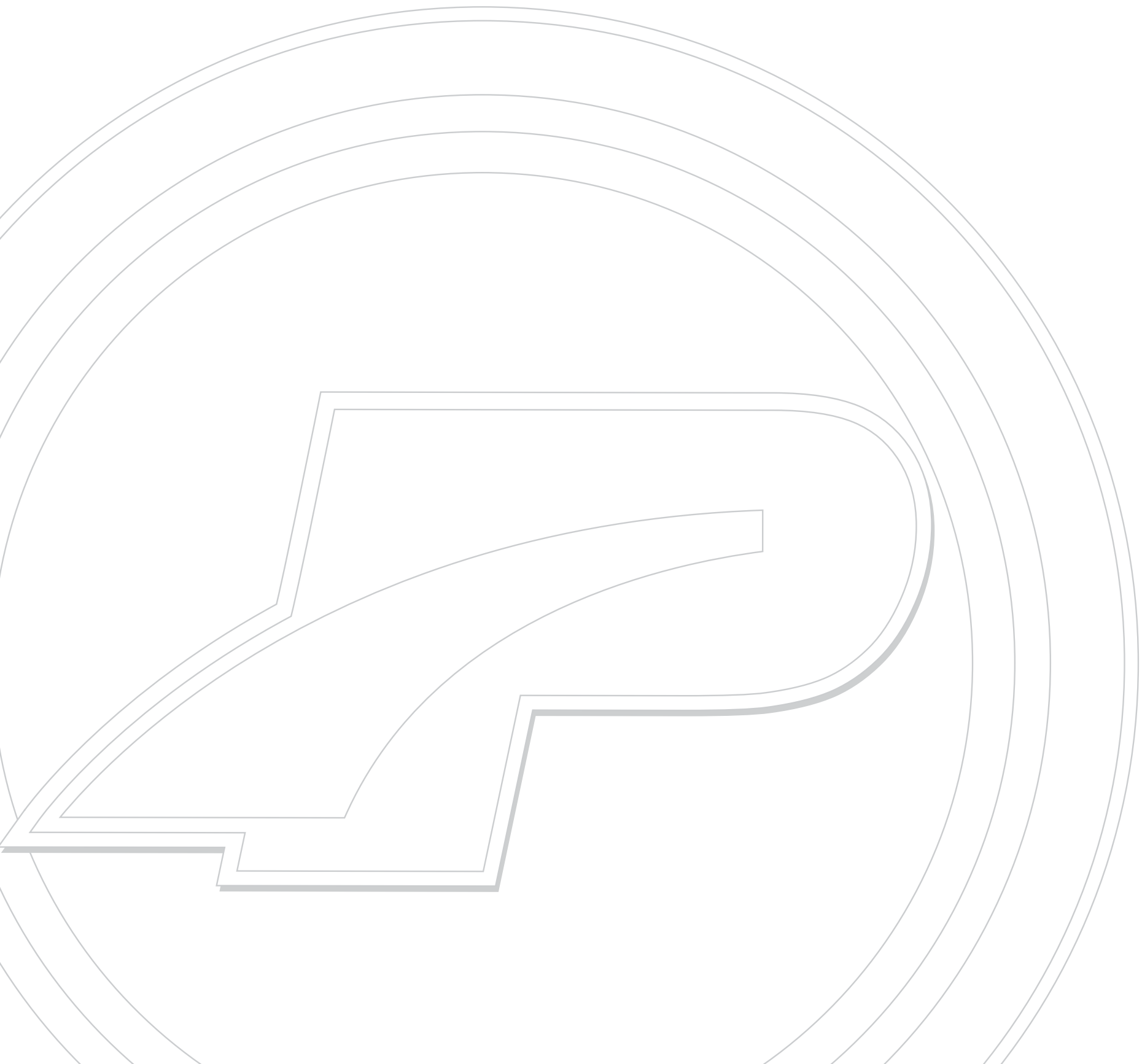


PPE

Innovations in performance.

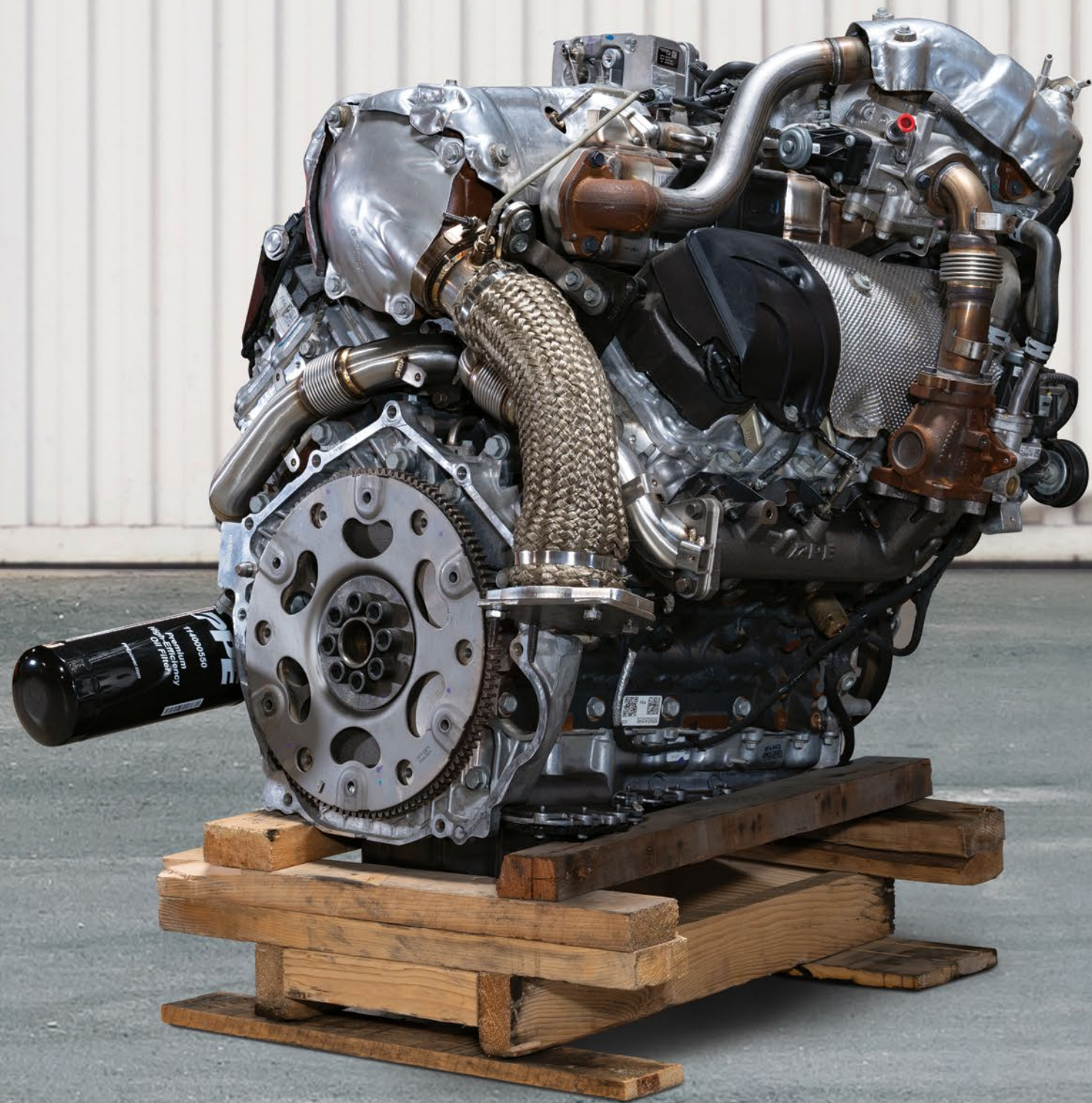


DIESEL · GAS · MARINE · UTV



PPE

Innovations in performance.



WHO WE ARE

PRODUCTS MADE FOR THOSE WHO DRIVE
MORE THAN A QUARTER MILE AT A TIME.

The founders of PPE (Pacific Performance Engineering) started in the automotive electronics industry in 1985.

Today, PPE engineers continue to be driven by a desire to increase fuel mileage and extract more horsepower and torque from OEM engines. PPE has built a reputation for designing upgrades that contribute to the performance industry, helping to fuel the passion of fellow performance enthusiasts. PPE provides engineered solutions using premium materials and cutting-edge manufacturing techniques that benefit daily-drivers and racers alike.

Many of PPE's products are emissions-compliant. In the era of mindfulness on clean, green technology, PPE works diligently to develop emissions-related components that are then submitted for testing as required by CARB (California Air Resources Board), with the goal of achieving 50 State Legal status.

PPE offers a comprehensive line of performance parts, including complete engines and transmissions that outfit the needs of successful builds found in the performance industry. Whether you are upgrading your new vehicle or restoring an older truck, car, or boat, PPE performance products will help extend the life of your vehicle and get you through the next season successfully.

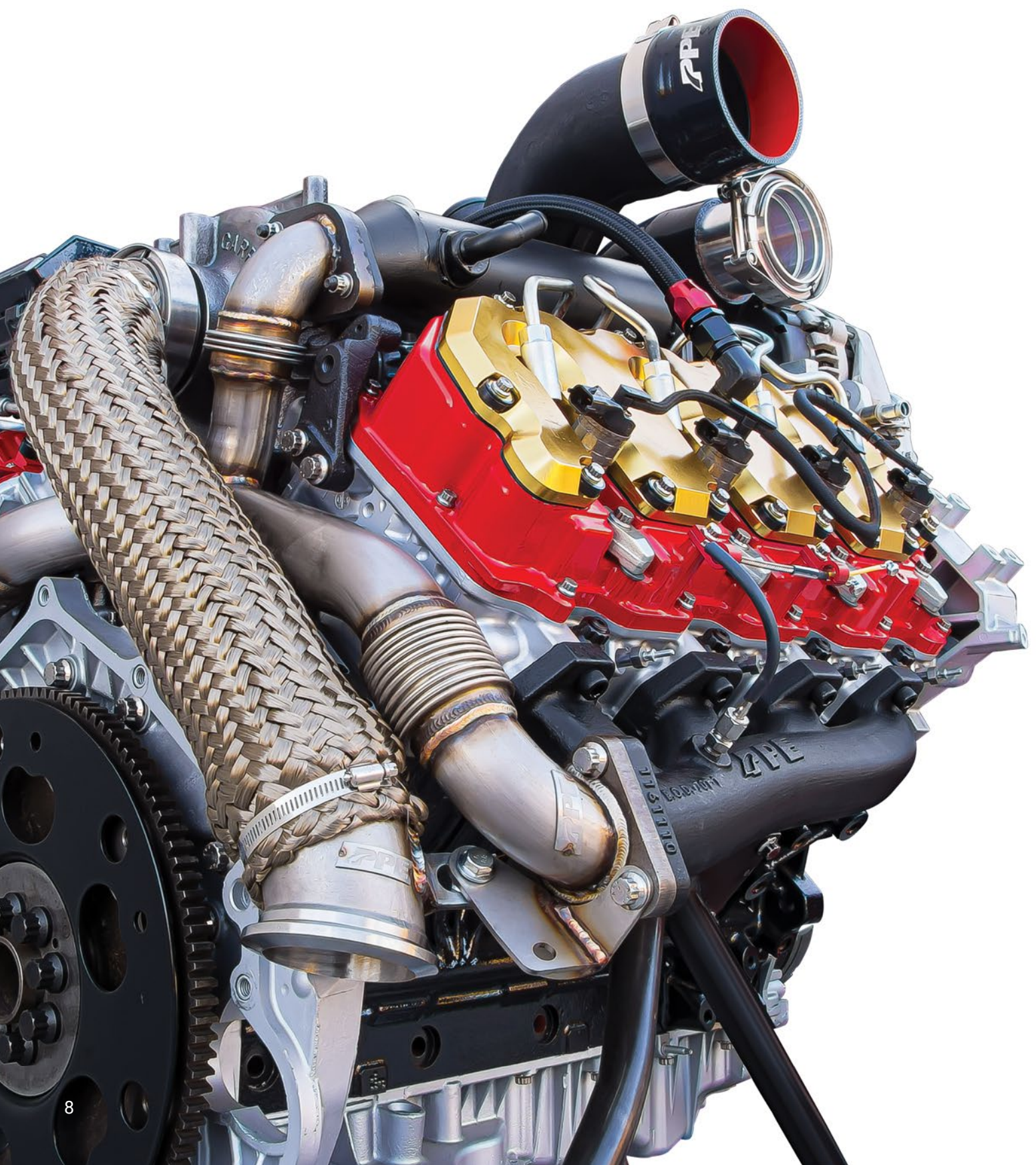
It is our passion here at PPE to use our extensive experience to provide a one-stop solution for you.

We look forward to working with you.

The PPE Performance Team

WE ENGINEER
RACING EQUIPMENT:
**BECAUSE TRUCKS
LIKE UPGRADES.**





GM

Categories: Xcelerator. Fuel System. Exhaust System. Turbo/Induction. Coolant System. Valve Covers. Oil System Upgrades. Suspension and Steering. Allison Transmission. Differential Covers. Competition. Race. Marine. Custom Modifications.

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DODGE / RAM

Categories: Fuel System. Transmission Upgrades. Differential Covers. Competition. Durango.

PAGE 118

FORD

Categories: Intake. Turbo. Exhaust. Exhaust System. Coolant System. Transmission Upgrades. Oil System. Differential Covers. Competition. Race.

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JEEP

Products: Heavy-Duty Cast Aluminum Transmission and Oil Pans.

PAGE 156

POLARIS

Products: Polaris Turbo Install Kit.

PAGE 160

UNIVERSAL

Categories: Exhaust Wrap and Shields. Intake. Turbo. Exhaust. Performance Silicone Hoses. Clamps and Flanges Kits. Tubing. LiFePO4 Batteries.

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GM SPECIFIC

PERFORMANCE + UPGRADES

EXPLORE THIS SECTION

- 12 - 13 XCELERATOR
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- 60 - 72 OIL SYSTEM UPGRADES
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- 114 - 117 CUSTOM MODIFICATIONS



Xcelerator

By simply plugging in a PPE Xcelerator handheld programmer and following the menu prompts you can add huge horsepower and torque gains to your truck!

The Xcelerator can adjust the speedometer to account for larger wheel/tire combinations and/or gear ratio changes (excluding Kodiak and Topkick models. Call for details).

For racers who need the speed limiter raised, it's simple with the PPE Xcelerator, it can be set all the way up to 200 mph! It also scans for all comprehensive engine diagnostics in real-time, even read and clear Diagnostic Trouble Codes (DTCs).

Easy installation of software tune levels through the vehicle's OBD-II Port.



Features:

- Additional horsepower
- Additional torque
- Real-time data scanning of engine data to help with engine diagnostics
- Tire size adjustment:
2002-2007 25 in. to 44.75 in.
2007.5-2010 25 in. to 34.5 in.
Note: Adjustment not available on 2001 or Kodiak/Topkick models.

- Adjustable speed limiter (from 40 to 96 mph, in 1 mph increments, or directly to 200 mph)
- Gear ratio corrections (from 2.73 to 5.13)
- Reads and clears Diagnostic Trouble Codes (DTCs) through the vehicle's On-Board Diagnostic System (OBD-II)
- Quick-learn feature for faster transmission re-learn

ECONOMY XCELERATOR

Applications:
2001-2010 GM 6.6L Duramax LB7/LLY/LBZ/LMM

Get more out of your diesel with the PPE Economy Xcelerator Tuner. This unit offers 3 increased horsepower settings (40, 90 and 120). Torque values are increased up to 200 lb. ft. over stock.

The Economy Xcelerator also has the same features as our other Xcelerator units, providing the user with the ability to make speedometer corrections, transmission reset and quick learn function, DTC code clearing, and online software updates. This unit is perfect for those individuals with stock engines who are looking to get something extra out of their Duramax.

Features:

- 3 power levels of additional horsepower and torque
- Speed limiter adjustable (40 to 96 mph in 1 mph increments, or directly to 200 mph)
- Gear ratio adjustable from 2.73 to 5.13
- Read and clear DTCs (Diagnostic Trouble Codes)
- Engine diagnostics data read in real-time
- Transmission reset, and quick learn feature
- USB side-plug for software version updates
- Manual DPF regeneration (LMM only)

2001-2010 Duramax Diesel - Economy Xcelerator

POWER	HP	TORQUE
3	120	200
2	90	160
1	40	97

Duramax Diesel - Economy Xcelerator

PART NO.	APPLICATION
111010000	2001-2010 GM 6.6L Duramax LB7/LLY/LBZ/LMM



STANDARD XCELERATOR

Applications:
2001-2010 GM 6.6L Duramax LB7/LLY/LBZ/LMM

The best part about the PPE Standard Xcelerator is that it will optimize a stock engine's performance, and works especially well when paired with PPE's Manifolds and Up-Pipes Kit or PPE's OEM Up-Pipes and PPE's Down Pipe.

Features:

- Up to five power levels of additional horsepower and torque (depending on vehicle year)
- Adjustable speed limiter (from 40 to 96 mph in 1 mph increments or directly to 200 mph)
- Adjustable gear ratio from 2.73 to 5.13
- Read and clear DTCs (Diagnostic Trouble Codes)
- Read real-time data (for engine diagnostics)
- Transmission reset and quick learn feature
- USB side-plug for software version updates
- Manual DPF regeneration (LMM only)

2001-2005 Duramax Diesel - Standard Xcelerator

POWER	HP	TORQUE
5	225	335
4	160	240
3	120	200
2	90	160
1	40	97

2006-2010 Duramax Diesel - Standard Xcelerator

POWER	HP	TORQUE
4	225	335
3	160	240
2	90	160
1	40	97

Duramax Diesel - Standard Xcelerator

PART NO.	APPLICATION
111020000	2001-2010 GM 6.6L Duramax LB7/LLY/LBZ/LMM

All PPE Xcelerator Kits Include:

- Xcelerator
- OBD-II cable
- Two PPE badges
- Foam-padded carrying case





113063600 Dual Fueler Kit with CP3 Pump showing the 816 Pulley Wheel option.



113061000 Dual Fueler Kit with CP3 Pump showing the 7Y-Spoke Pulley Wheel option.



DUAL FUELER KITS

Bolt this kit on and your engine computer will automatically recognize both pumps and continue to deliver the precise amount of fuel your engine computer is requesting. Our PPE belt-driven Bosch CP3 fuel pump kit works in conjunction with the stock fuel system and is controlled by a sophisticated microprocessor module.

Adding our kit to your stock fuel system reduces drive load on the stock CP3 pump, thereby increasing pump reliability. Both pumps work together, each delivering half the total volume of fuel required. This kit also adds redundancy to your fuel system by giving you a backup CP3 pump. In the event of one pump failing, the electronic controller will automatically switch all fuel delivery requirements to the remaining operational pump.

This kit will not produce more fuel pressure than the engine ECU requests, it will only increase fuel volume as needed to maintain ECU requested fuel pressure. For racing applications, this kit provides fuel flow to maintain fuel pressure up to 26,000+ psi, essential for highly modified race engines that are seeking to produce high-horsepower.

Dual Fueler Kit with Pump

PART NO.	APPLICATION
113061100	2001 LB7
113061000	2002-2004 LB7
113062000	2004.5-2005 LLY
113063500	2006-2010 LBZ/LMM
113063600	2011-2016 LML (shown)

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-22

Dual Fueler Kit without Pump

PART NO.	APPLICATION
113064100	2001 LB7
113064000	2002-2004 LB7
113065000	2004.5-2005 LLY
113067000	2006-2010 LBZ/LMM
113067200	2011-2016 LML

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-22

Choose your Pulley!
Billet Aluminum Pulley Wheels

PART NO.	APPLICATION
113061071	816 Style
113061072	7Y-Spoke Style



113061071



113061072



113063500 Dual Fueler Kit with CP3 Pump showing the 816 Pulley Wheel option.



BILLET ALUMINUM PULLEY WHEELS

Introducing a design update for your PPE Dual Fueler Kit. Now available as a bold and stylish upgrade to the PPE Dual Fueler Kit already installed on your rig, or included in your choice of style as standard equipment in all PPE Dual Fueler Kits.

Made from machined billet aluminum and then anodized for strength and style, these updated PPE Dual Fueler Pulley Wheels feature a more robust design with machined spokes to dress up your engine bay.



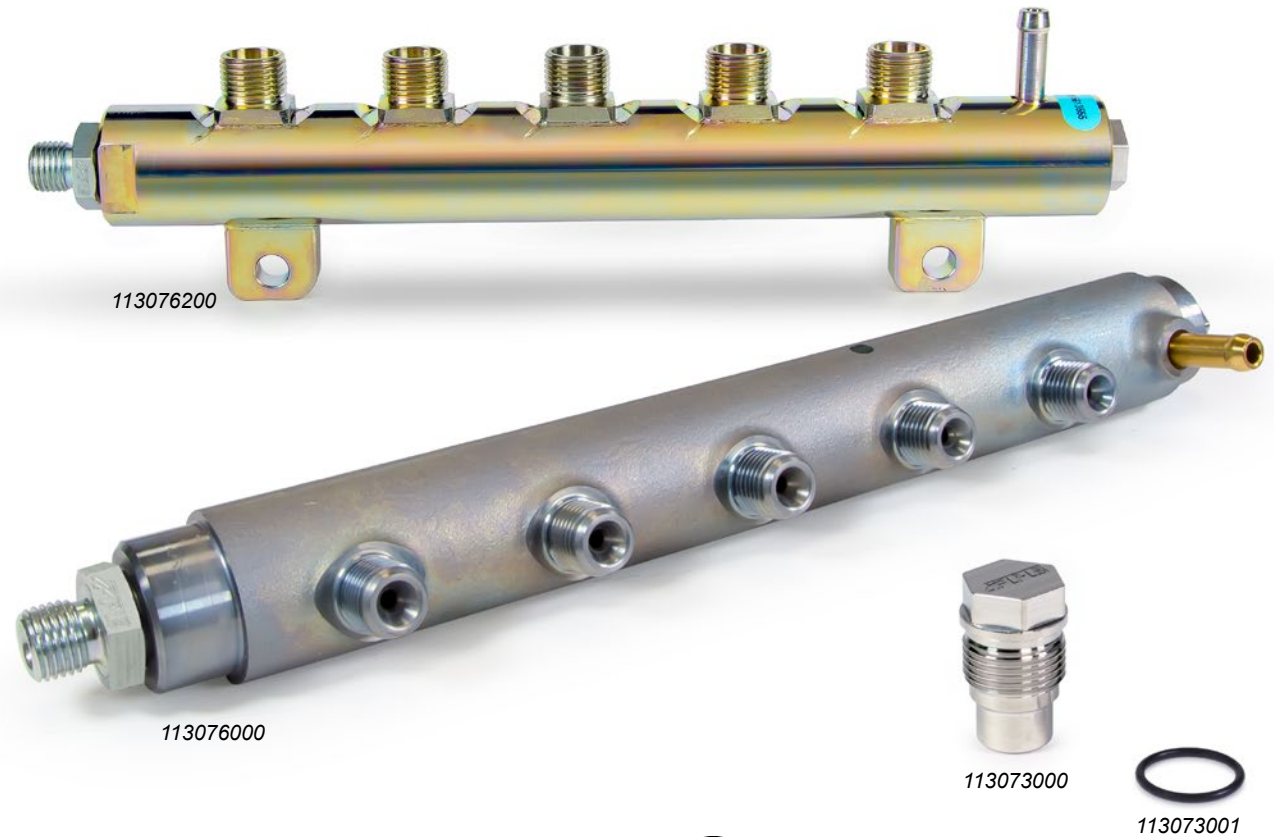
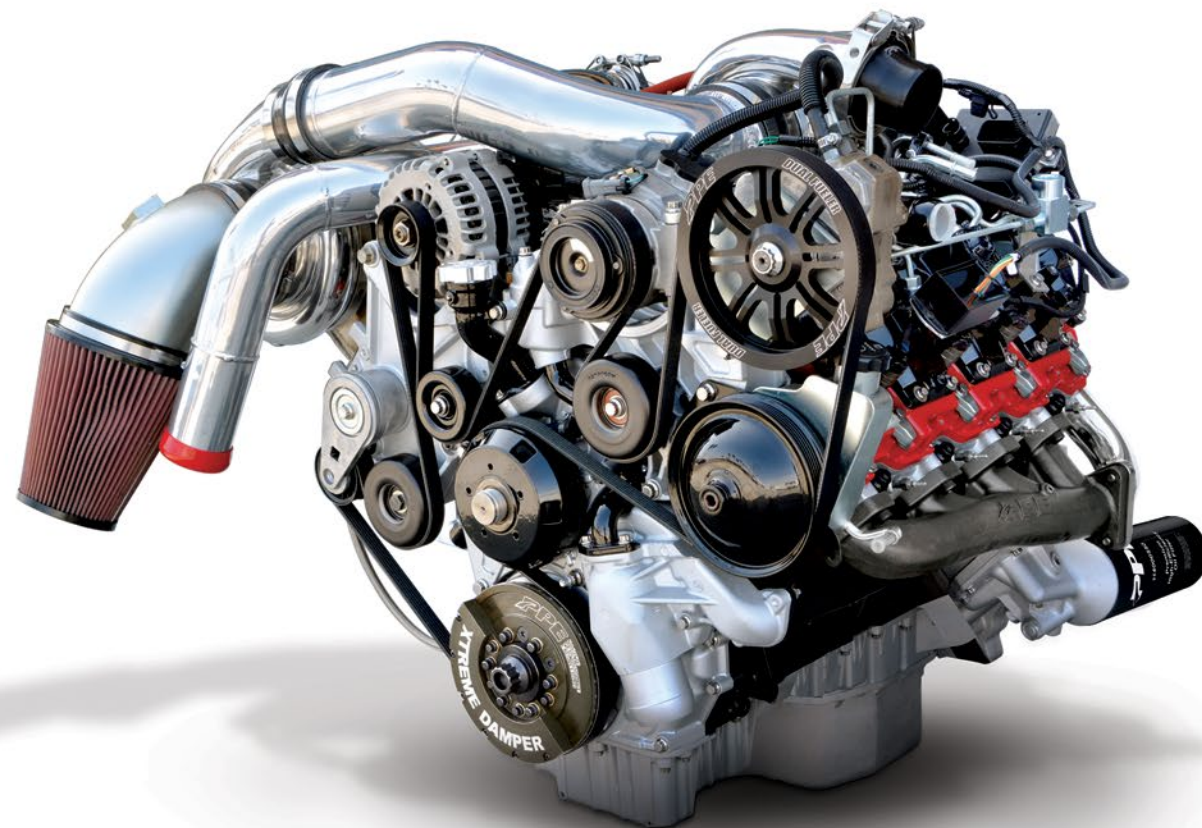
PART NO.	STYLE
113061071	816 Style
113061072	7Y-Spoke Style

REPLACEMENT DUAL FUELER HEAVY-DUTY SERPENTINE BELTS

PPE's replacement Dual Fueler Heavy-Duty Serpentine Belt handles big horsepower and torque output, and still lasts up to 3x longer than a comparable stock unit.



PART NO.	APPLICATION
113061087	2001 6.6L Duramax
113061490	2002-2010 Duramax



HIGH-PERFORMANCE FUEL RAILS

With the PPE modified stock Fuel Rail, we do all the work; you get a PPE High-Performance Fuel Rail and all the benefits of a fully-modified part.

This modification helps to maintain fuel rail pressure during full-throttle driving and eliminates low fuel rail pressure DTC codes P1093 or P0087 (low fuel rail pressure during power enrichment) that are caused by insufficient PRV spring pressure.

Equipped with both the PPE Race Fuel Valve (or Release Valve Shim Kit style available by request) and Ported Fuel Rail Fitting, this PPE unit is ready to bolt-on and run.

Features:

- Easy bolt-on performance
- Maintains fuel rail pressure during full-throttle

PART NO.	APPLICATION	SIDE
113076000	2004.5-2005 LLY	Driver
113076050	2004.5-2005 LLY	Passenger
113076200	2006-2010 LBZ/LMM	Driver
113076250	2006-2010 LBZ/LMM	Passenger



RACE FUEL VALVE

The heat-treated hardened billet stainless steel PPE Race Fuel Valve replaces the stock or a shimmed pressure relief valve. This valve helps maintain fuel rail pressure during high engine load conditions. It eliminates potential low fuel rail pressure DTC codes P1093 or P0087 (low fuel rail pressure during power enrichment) that are caused by insufficient pressure relief valve spring pressure opening, causing fuel to return to the tank.

PART NO.	APPLICATION
113073000	2004.5-2010 LLY/LBZ/LMM

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-12

Requires the use of 113073001 Viton O-Ring (sold separately).

VITON O-RING FOR RACE FUEL VALVE

Engineered to accompany the PPE Race Fuel Valve. Made from high-quality, chemical-resistant Viton rubber, this O-ring is better than the stock unit, and will last longer too!

PART NO.	APPLICATION
113073001	2004.5-2010 LLY/LBZ/LMM





RACE FUEL VALVE

Replace your stock, or shimmed pressure relief valve (PRV) with PPE's Race Fuel Valve. Made from heat-treated hardened billet stainless steel, this valve helps maintain fuel rail pressure during high engine load conditions. It eliminates potential low fuel rail pressure DTC codes P1093 or P0087 (low fuel rail pressure during power enrichment) caused by insufficient pressure relief valve spring pressure. This condition leads to the valve opening too early, which causes fuel to be returned to the tank, robbing you of power.



PART NO.	APPLICATION
113072800	2001-2004 LB7

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-25



PORTED FUEL RAIL FITTING

Fuel flow is vital to producing maximum, efficient, clean horsepower. PPE's Ported Fuel Rail Fitting replaces the restrictive stock fittings to maintain fuel rail pressure during heavy engine load situations. This high-quality, heat-treated hardened billet stainless steel fitting increases available fuel flow volume from the CP3 pump to the fuel rail and reduces fuel pressure drops caused by the restrictive stock fuel rail fitting.



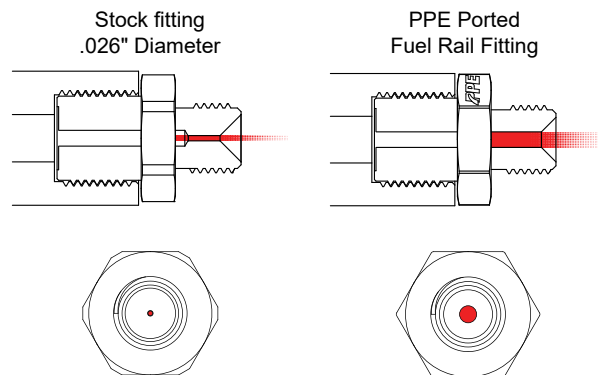
PART NO.	APPLICATION
113071000	2004.5-2010 LLY/LBZ/LMM

Note: The driver side fuel rail feeds the passenger side rail. You may choose to install the driver side only, or both sides for maximum flow.



See the difference:

The diagram below shows the restrictive stock fitting compared to the higher-flowing PPE Ported Fuel Rail Fitting.



**20X
MORE FLOW
THAN STOCK**



RELEASE VALVE SHIM KIT

The Release Valve Shim Kit increases the pressure needed to "pop off" the Pressure Relief Valve (PRV). This kit ensures the available fuel rail pressure requested by the engine computer remains high during high-throttle driving conditions.

The Pressure Relief Valve eliminates potential low fuel rail pressure DTC codes P1093 or P0087 (low fuel rail pressure during power enrichment) that are caused by an insufficient pressure relief valve spring opening under pressure and returning fuel to the fuel tank, which robs you of power.

PART NO.	APPLICATION
113072000	2004.5-2010 LLY/LBZ/LMM

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-32

BILLET ALUMINUM AIR BLEEDER SCREWS

Replace your fragile plastic, factory air bleeder screw with the longer-lasting billet aluminum PPE Air Bleeder Screw.

Damage and distortion are typical with the stock plastic screw. Routine servicing can now be simple. PPE's Air Bleeder Screw features machined billet aluminum construction and a Nitrile O-ring seal, that means fewer problems over time.

Features:

- Machined air channel on threads to bleed air (Beware of inferior bleeder screws without an air channel)
- Biodiesel-compatible Nitrile O-ring



PART NO.	COLOR	APPLICATION
513081000	Gold	2001-2016 GM 6.6L Duramax
513081100	Black	2001-2016 GM 6.6L Duramax

DURAMAX WATER LEVEL SENSOR WRENCH

PPE's Water Level Sensor Wrench does two important jobs: It's used to remove the water in fuel (WIF) filter sensor, and the small end of the wrench is made to fit the billet PPE Air Bleeder Screw.

This two-in-one tool is laser cut from stainless steel, then polished to a mirror finish, so it will look great in your tool box too!



PART NO.	APPLICATION
513080000	2001-2011 GM 6.6L Duramax
513080012	2012-2016 GM 6.6L Duramax
513080100	2003-2009 Topkick/Kodiak 7.8L Duramax





CP3 HIGH-FLOW FEED LINE KIT

Any restriction in the fuel flow costs you horsepower. The PPE CP3 High Flow Feed Line Kit eliminates the restriction of the factory fuel test-port/fuel block by re-routing the fuel from the fuel filter housing directly into the CP3 pump.

Working in conjunction with the PPE CP3 Pump Inlet Fitting, the large 3/8" diameter hose allows for an increased flow to the CP3 injection pump. Recommended for Dual Fueler installs and single CP3s where additional flow is needed.

Kit Includes:

- 3/8" or 1/2" hose
- Clamps

2001-2010 GM 6.6L Duramax Diesel

PART NO.	SIZE	FITTING
113060900	3/8" x 12"	Yes
113060800	3/8" x 12"	No
113060902	1/2" x 24"	Yes
113060802	1/2" x 24"	No

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-28



Kit 113060900

Kit 113060902 includes 1/2" Fitting (113060601)

Kit 113060900 includes 3/8" Fitting (113060501)



CP3 PUMP INLET FITTINGS

Get the most fuel flow possible from your stock CP3 pump. Eliminate possible damage to the CP3 pump from excessive suction required by the high-pressure CP3's fuel injection pump, with a high-flow PPE billet stainless steel CP3 Pump Inlet Fitting.

The benefit of the larger inner diameter of the PPE fitting is that it allows fuel to flow up to 70% over the restrictive stock 1/4" inlet fitting. With a greater volume of fuel available to it, the CP3 injection pump is able to perform at its optimal capacity.

Features:

- 70% more flow over stock
- Billet stainless steel

GM 6.6L Duramax Diesel

PART NO.	SIZE
113060501	3/8"
113060601	1/2"

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-27

Note: 3/8" version is the maximum fuel pump inlet size. 1/2" fitting allows for 1/2" hose reduced to 3/8" fuel pump inlet.



113060501

113060601

Stock fitting



DIESEL FUEL LIFT PUMP

The PPE Diesel Fuel Lift Pump is a key component in a reliable fuel system. Rather than depending on the OEM CP3 to pull fuel from the tank, the PPE Diesel Fuel Lift Pump pushes fuel through the lines and filter. This eliminates the possibility of air being drawn into the system, collapsed hoses, and fuel restrictions.

Features:

- Up to 160 gallons per hour (GPH) fuel flow
- High-flow 1/2" NPT inlet and outlet
- Eliminates vacuum from fuel tank to pump
- Compatible with biodiesel, and low-sulfur diesel
- Reusable internal fuel filter screen can be serviced regularly
- 1 year warranty

PART NO.	APPLICATION
113050000	2001-2016 GM 6.6L Duramax

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-23



Kit Includes: Pump, mounting bracket, dual 12V fuel pump relays and wiring diagram. Highly recommended when using a PPE Dual Fueler CP3 kit. For even greater fuel flow, use in conjunction with the PPE Billet Aluminum Fuel Pickup and PPE CP3 High Flow Feed Line Kits.





BILLET ALUMINUM FUEL PICKUP KIT

Capable of handling fuel flow up to 300% over stock, the -10 AN hose has an increased fuel flow area of 140%.

High-performance tests have shown that under maximum-output, fuel systems require more fuel flow than the stock fuel pickup can provide, without causing restriction.

Easy installation on 2001-2005 models means only a single hole needs to be drilled. Later applications require no modification.

Features:

- Designed using CAD/ CAM precision modeling technology
- Machined 6061 billet aluminum accepts a -10 AN push-lock hose

PART NO.	APPLICATION
113051000	2001-2005 LB7/LLY
113052000	2006-2008 LBZ/LMM
113054000	2009-2010 LMM
113053000	2001-2005 LB7/LLY w Lift Pump (Shown)



113053000
2001-2005 LB7/LLY



Stock sending unit modified with PPE's Billet Aluminum Pickup Kit



113051000
2001-2005 LB7/LLY



113053000
2001-2005 LB7/LLY with Lift Pump



113052000
2006-2008 LBZ/LMM



113054000
2009-2010 LMM



113058000
2001-2010 Chevy/GMC 6.6L Duramax

LIFT PUMP FUEL LINE INSTALL KIT

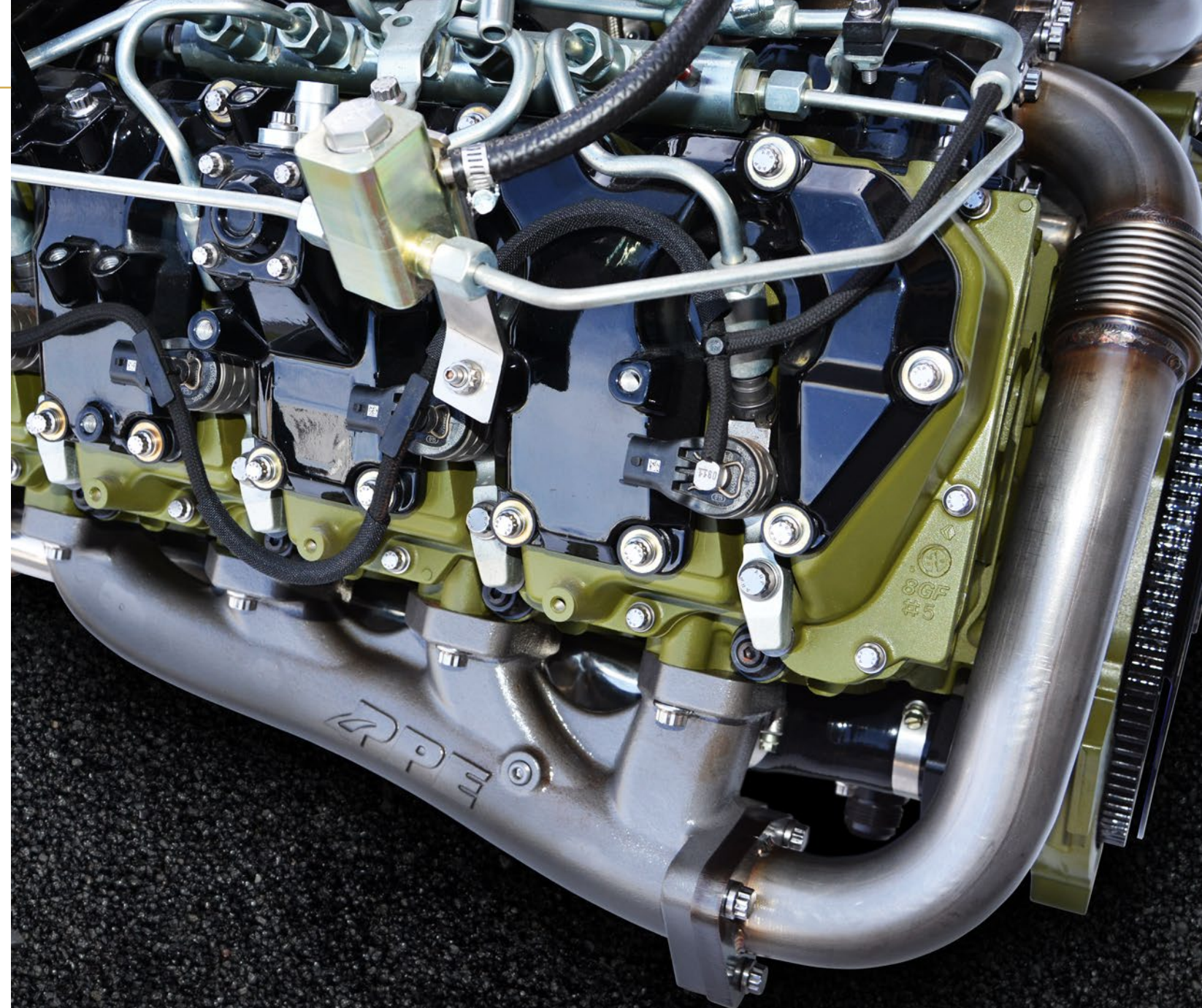
Plumb that new electric lift pump the right way. This kit provides the exact hoses, fittings, and clamps that you need to easily complete the installation of the PPE Fuel Lift Pump.

Kit Includes:

- 1/2" or 5/8" Fitting/Hose/Clamps for connecting the fuel tank to lift pump
- 1/2" Fitting/Hose/Clamps for connecting the lift pump to truck

PART NO.	OD x L	APPLICATION
113058000	1/2" x 40"	01-10 Chevy/GMC 6.6L Duramax
113058100*	5/8" x 20"	01-10 Chevy/GMC 6.6L Duramax

* Use with PPE Fuel Pick Up (113052000 or 113054000)



HIGH-FLOW MANIFOLDS AND UP-PIPES

MAXIMIZE
POWER & FLOW

LOWER EXHAUST
GAS TEMPERATURES

ACCELERATE
TURBO SPOOL-UP

INCREASE
FUEL ECONOMY



OEM-LENGTH REPLACEMENT UP-PIPES



OEM-LENGTH REPLACEMENT HIGH-FLOW UP-PIPES

Diesel engines (even stock) produce high temperatures and pressures. OEM up-pipes eventually fail from constant temperature and pressure fluctuation.

PPE has taken OEM replacement to a new level. PPE OEM-Length Up-Pipes allow 53% greater flow than stock. PPE OEM Up-Pipes are a direct bolt-on to your factory manifolds. But unlike factory parts, PPE OEM-Length Up-Pipes are manufactured from 11-gauge 304 stainless steel and include our superior PPE 304 stainless steel internally-sleeved bellows that can take the abuse of high temperature and high pressure.

Features:

- Direct bolt-on replacement to factory exhaust manifolds
- Significant reduction in exhaust back-pressure
- Free-flowing stainless steel inner liner bellows
- 304 stainless steel 11-gauge .120" wall, 2" OD Up-Pipes
- Faster turbo response
- Lower exhaust gas temperatures (EGTs)

GM 6.6L Duramax

PART NO.	GM PART NO.	APPLICATION
11612000*	97223167 97223166	2001 CA / 2001-2004 FED
116120204*	97246389	2002-2004 CA LB7
116120405*	97303648	2004.5-2005 LLY
116120607*	97365041	2006-2007 LBZ
116120710*	98066018	2007.5-2010 LMM
116121115*	12657012	2011-2016 LML
116122000	12676611 12688021	2017-2020 L5P

*This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-20

Kit Includes:

- Driver side Up-Pipe
- Passenger side Up-Pipe
- 118062030 Up-Pipe Gasket Set

**53%
LARGER FLOW
AREA THAN STOCK**



PPE's bellows are 53% larger in flow area and allow greater flow than stock bellows.



Factory manufacturing process leaves the up-pipe bellows' inside liner significantly undersized and deformed causing excessive restriction.

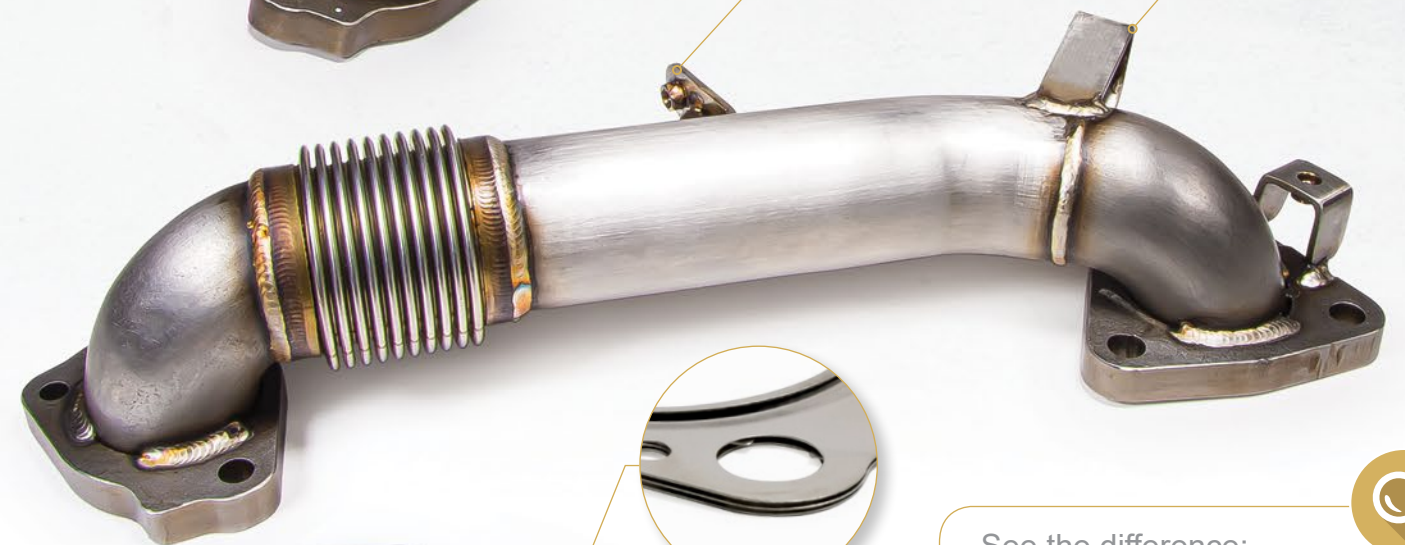


WHY PPE ONLY USES 304 STAINLESS STEEL AND WILL NEVER USE 409 STAINLESS FOR ANY PPE PRODUCTS.

304 stainless steel is the highest-quality stainless steel in commercial automotive use. 304 stainless steel is very tough and highly corrosion-resistant, with a 20% chromium and 10% nickel alloy content. 304 stainless steel is also nonmagnetic due to its low ferrous metal content, therefore not attracted to magnetic fields.

409 stainless steel is used in most stainless steel exhaust systems because of its significantly lower cost. With a lower chromium content (10-12%) and nickel alloy content at only .05% it is more likely to rust, especially in cold and wet climates. 409 stainless steel also contains a higher ferrous metal content causing it to be attracted to magnetic fields.

OEM heat shield mounts



Multi-layered 304 stainless steel creates a tight seal.

Rolled edge ensures high-pressure gases don't leak out, which robs power.

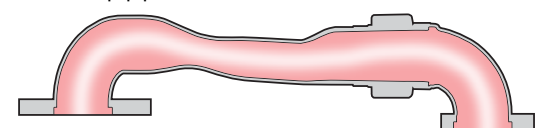


Kit shown:
116122000 2017-Current L5P

See the difference:

PPE has taken OEM replacement to a new level. PPE OEM Up-Pipes allow 53% greater flow than stock.

Stock up-pipes



PPE Up-Pipes



MANIFOLD COATING OPTIONS
See Page 28

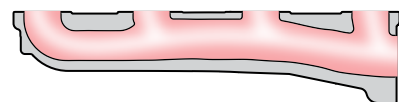
Kit shown:
116111800 2007.5-2010 LMM



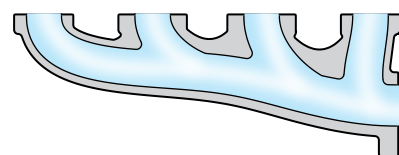
See the difference:

Factory manifolds compared to PPE Manifolds, specifically designed to maximize power and flow.

Stock manifolds



PPE Manifolds



HIGH-FLOW MANIFOLDS AND UP-PIPES KITS

Rolled edge ensures high- pressure gases don't leak out, which robs power.

Multi-layered 304 stainless steel creates a tight seal.

Multi-layered 304 stainless steel creates a tight seal.

Kit shown:
116112500 2017-2020 L5P



HIGH-FLOW MANIFOLDS AND UP-PIPES KITS

PPE's Manifolds and Up-Pipes Kits are designed to maximize power and flow characteristics. The Up-Pipe bellows are internally-sleeved, made from aircraft-grade 304 stainless steel and designed with a 53% increased flow area for higher flow. The entire Manifold and Up-Pipe exhaust system kit is designed to lower exhaust gas temperatures (EGTs) and accelerate turbo spool-up while increasing power, fuel economy and maintaining reliability.

Features:

- Significant reduction in exhaust back-pressure
- High-flow Manifolds constructed of cast hi-sil moly iron
- Up-Pipes have free-flowing 304 stainless steel inner liner bellows
- Up-Pipes made from 304 stainless steel 11-gauge .120" wall, with a 2" outside diameter
- Built in bosses, pre-drilled and tapped 1/8" NPT for EGT gauge sensor

PART NO.	APPLICATION
116111000*	2001 CA GM 6.6L Duramax
116111000*	2001-2004 FED GM 6.6L Duramax
116111200*	2002-2004 CALB7 GM 6.6L Duramax
116111400*	2004.5-2005 LLY GM 6.6L Duramax
116111600*	2006-2007 LLY/LBZ GM 6.6L Duramax
116111800*	2007.5-2010 LMM GM 6.6L Duramax
116112000*	2011-2016 LML GM 6.6L Duramax
116112500	2017-2020 L5P GM 6.6L Duramax

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-19

Upgrade PPE Manifolds to one of our two different ceramic coating options

PART NO.	APPLICATION	FINISH
116111020	GM 6.6L Duramax	Silver Ceramic
116111022	GM 6.6L Duramax	Black Ceramic

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-19



Silver ceramic finish



Matte black ceramic finish

See next page for more information about our ceramic coating options.

LML model requires modification on upper control arm bushing heat shield. Up-Pipe configuration will vary depending on your model.





CERAMIC COATED OPTIONS FOR PPE MANIFOLDS

Ceramic coating was pioneered by the military, and defense industries. Now considered a standard in high-performance applications like Formula 1 and military jet aircraft, this same process is available to you - today.

The ceramic coating option enhances the existing benefits of the PPE Manifolds and Up-Pipes Kit which is specifically designed to maximize power and flow characteristics. Ceramic coating creates a thermal barrier and doesn't absorb heat as quickly as raw metal. This reduces the thermal cycle and surface temperature. Ceramic coating promotes even greater flow, which means lower exhaust gas temperatures (EGTs). Ceramic coating also offers long-lasting protection against moisture, road salts, oil, fuel, and other corrosive chemicals. Plus, ceramic coating keeps your PPE Manifolds looking great - for a long, long time.

Choose the ceramic coating option added to your PPE Manifolds and upgrade your GM 6.6L Duramax with the superior combination of PPE Manifolds with 304 stainless steel Up-Pipes Kit.

Features:

- Increased flow performance
- Lower exhaust gas temperatures (EGTs)
- Lower engine bay temperatures
- Reduced heat-soak and more heat energy available to drive the turbo charger
- Corrosion resistance for long-lasting looks

Upgrade PPE Manifolds to one of our two different ceramic coating options

PART NO.	APPLICATION	FINISH
116111020	GM 6.6L Duramax	Silver
116111022	GM 6.6L Duramax	Black

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-19



Silver ceramic finish



Matte black ceramic finish

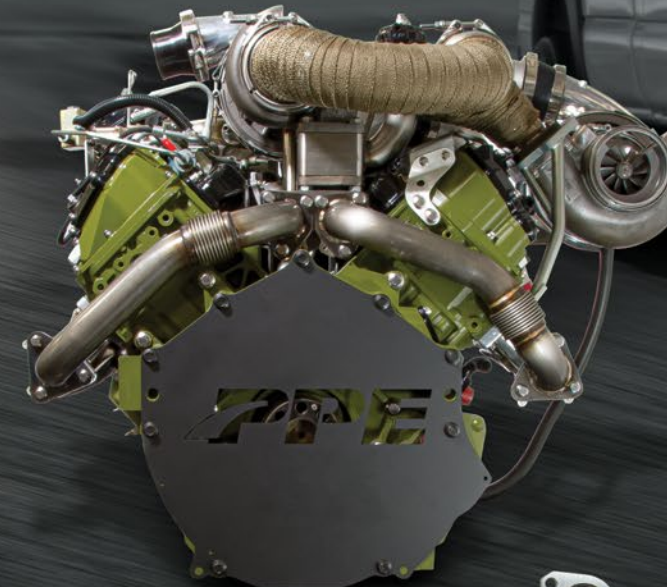


RACE HIGH-FLOW UP-PIPES AND EXHAUST MANIFOLDS KIT

PPE's Manifold and Up-Pipes are designed to maximize power and flow characteristics. The Up-Pipe bellows are high-flow, internally sleeved and aircraft grade 304 stainless steel with an increased inner diameter. The entire Manifold and Up-Pipe exhaust system is designed to lower exhaust gas temperatures, reduce turbo drive pressure, and accelerate turbo spool-up while increasing power, fuel economy and maintaining reliability.

Features:

- Significant reduction in exhaust back-pressure
- Cast hi-sil moly iron high-flow manifold construction
- Up-Pipes have free-flowing 304 stainless steel, aircraft-grade inner liner bellows
- Up-Pipes are made from 304 stainless steel 11-gauge .120" wall, with a 2" outside diameter
- Built in bosses, pre-drilled and tapped 1/8" NPT for EGT gauge sensor



Truck owner: Dan Grant
Photo: Pete Liebig

2001-2006 GM 6.6L Duramax

PART NO.	APPLICATION
116111100	2001-2006 GM 6.6L Duramax

Note: Will not fit engines that are equipped with factory located down pipes



In order to purchase this product: Per EPA guidelines, PPE Inc. is required to, as per performance of due diligence, request the following to determine if vehicle is non-road registered racing vehicle that will NEVER be used on the highway or public lands - unless it is a closed course racing event - in order to approve this product purchase. REQUIREMENTS ARE: 1. Pictures of the racing vehicle. 2. VIN numbers, or indicate if none present. 3. State and/or NHRA vehicle/driver registration information or equivalent (when applicable). 4. Racing circuits for these types of vehicles and any other documentation. For information on how to submit these documents please call 714-985-4825 Monday to Friday 8:00 a.m. to 5:00 p.m. PST



MODIFIED COOLANT TUBE

PPE's modified coolant tube for LMM Duramax 6.6L is designed for use with PPE Manifolds and Up-Pipe Kits.

Specifically developed to retain the use of the factory heater, the PPE Modified Coolant Tube re-routes the coolant that flows through the tube and provides heat to the heater core for the in-cab AC/Heat system.



PART NO.	APPLICATION
116111810	2007.5-2010 GM 6.6L Duramax



HEAT SHIELD BLANKET SET FOR PPE DRIVER/PASSENGER HIGH-FLOW MANIFOLDS

This is not your average fiberglass blanket material! The Heat Shield Blanket is over 1/2" thick made from 3 layers of silica material rated at 1,800°F continuous and short exposures to 3,000°F.

PPE Fabric Heat Shield Blankets help the turbo spool faster, lower intake air charge temps, lower under-hood temps and reduces the heat in order to prolong engine compartment wiring harness life.



PART NO.	APPLICATION
116016000	2001-2016 GM 6.6L Duramax



Rolled edge ensures high-pressure gases don't leak out, which robs power.

HIGH-PERFORMANCE UP-PIPE GASKETS

Fits GM stock and PPE Up-Pipes. Rolled edge creates a tight seal at the manifold and turbo inlet. This 4-piece kit is constructed of multi-layered 301 stainless steel. PPE Up-Pipe Gaskets allow for extreme changes in temperature, ensuring a leak-free seal.

PART NO.	GM PART NO.	APPLICATION
118062030	97192618 97188685	2001-2016 GM 6.6L Duramax
118062050	12688018 12676608	2017+ GM 6.6L Duramax

HIGH-PERFORMANCE MANIFOLD GASKETS

Multi-layered 301 stainless steel gaskets create a tight seal between the Exhaust Manifolds and 6.6L GM Duramax engine. PPE Manifold Gaskets are designed to fit both PPE High-Flow Exhaust Manifolds and GM OEM manifolds. Available in OEM size or oversized.

PART NO.	GM PART NO.	APPLICATION
118062010	98002804	2001-2016 GM 6.6L Duramax - OEM Size
118062020	-	2001-2016 GM 6.6L Duramax - Oversize
118062012	-	2017+ GM 6.6L Duramax Standard Port Stainless Steel Exhaust Manifold Gasket Set (3 pcs) L5P
118062013	-	2017+ GM 6.6L Duramax Standard Port Stainless Steel Exhaust Manifold Gasket Set (1 pcs) L5P
118062014	-	2017+ GM 6.6L Duramax Gasket Manifold EGR Riser (1 pc) L5P
118062015	-	2017+ GM 6.6L Duramax Standard Port Stainless Steel Exhaust Manifold Gasket Set (2 pcs) L5P



Kit shown:
118062012 High Performance Manifold Gaskets
2017+ GM 6.6L Duramax
(Included with PPE Manifold and Up Pipes Kit 116112500)



Multi-layered 301 stainless steel creates a tight seal.

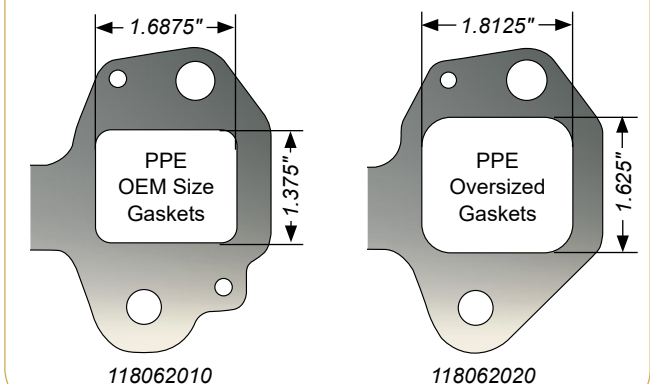


Kit shown:
118062010 High Performance Manifold Gaskets
2001-2016 GM 6.6L Duramax - OEM Size
(Included with PPE Manifold and Up Pipes Kit - See Page 27 for fitment years)

See the difference:

PPE includes OEM size gaskets in the PPE Manifolds and Up-Pipes Kits.

PPE offers oversize gaskets for those who have ported their heads and need oversize gaskets.





THREE INCH 304 STAINLESS STEEL DOWN-PIPES

Remove your crushed oval-shaped, stock down-pipe and replace it with a smooth, round, long-lasting 304 stainless steel 3" diameter Down-Pipe from PPE.

Includes gasket(*) and a woven 3/4" thick titanium heat-resistant sleeve with reinforced stitching to reduce engine bay temperatures.

GM 6.6L Duramax Applications:

PART NO.	APPLICATION
*117000424	2002-2004 LB7 CA
*117000400	2001-2004 LB7 Federal
*117000500	2004.5-2010 LLY/LBZ/LMM
*117000600	2011-2014 LML
117000700	2014.5-2016 LML
117000800	2017-2020 L5P

Extended length used with PPE Riser Block (116006058/116006059). This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-30



OEM-STYLE STUDS
For Easy Installation

117000700



3 LBS. LESS WEIGHT THAN OEM
6 Lbs. vs 9 Lbs.

117000800



1 PIECE CNC MACHINED
Cast 304 Stainless Steel Flanges

117000500



FULLY TIG WELDED
All Parts are Fully TIG Welded for Strength

117000600



1 PIECE CNC MACHINED
Cast 304 Stainless Steel Flanges

117000424

DOWN-PIPE SUPPORT BRACKET

If you have PPE Manifolds and Up-Pipes, this bracket secures your PPE Down-Pipe and prevents movement. An unsecured Down-Pipe that moves can come in contact and damage the Up-Pipe bellow even under normal driving conditions. This movement can also contribute to metal fatigue and cracking of the Down-Pipe. This is a simple solution to help solve the problem. Fabricated from 1/8" 304 stainless steel.

PART NO.	APPLICATION
116110505*	OEM Length Up-Pipes
116110510	2001-2010 GM 6.6L Duramax
116110520	2011-2016 GM 6.6L Duramax



GASKET FOR LOWER DOWN-PIPE FLANGE

Whether you have a stock down pipe, or you have upgraded to the PPE 3" 304 stainless steel Down-Pipe, this premium-quality gasket will give you a leak-free seal and keep your exhaust free-flowing. (Included with part numbers: 117000400, 117000424, 117000500, 117000600).

PART NO.	APPLICATION
117000360	2001-2014 GM 6.6L Duramax



117000360

GASKET FOR UPPER DOWN-PIPE FLANGE

This premium-quality gasket will give you a leak-free seal and keep your exhaust free-flowing.

PART NO.	APPLICATION
117000362	2017-2020+ GM 6.6L Duramax L5P



117000362





TIG welded 304 stainless steel

11730020
2009-2013 GM/Chevy 1500 Pickup 5.3L gas 2WD/4WD

GAS ENGINES CAT-BACK EXHAUST SYSTEM WITH TIPS

Do you want your truck to sound better and get better performance, but not be annoying to drive day-to-day? This kit offers a mellow interior tone with an aggressive exterior sound.

Easy to install, these kits are constructed entirely of 304 stainless steel and use the factory hangers, and clear your factory-mounted spare tire. Complete with a 3" inlet pipe that splits into two, 2.5" over-axle tail pipes after the 304 stainless steel muffler designed with reinforced internal baffles, then exhaust exits out the two large-diameter stainless steel tips.

The pairs of 304 stainless steel tips are available in your choice of ceramic coated black or fully-polished finishes. Kit also available with fully-polished tubes and tips.

Fits 143" and 157" wheelbase versions. Crew cab short bed, and extended cab 8 ft. bed. 143.5" ext. cab standard box and crew cab short box 157.5" extended cab long box.

PART NO.	APPLICATION	FINISH
117030020	2009-2013 GM/Chevy 1500 Pickup 5.3L gas 2WD/4WD	Raw tube with black tips
117030030	2009-2013 GM/Chevy 1500 Pickup 5.3L gas 2WD/4WD	Raw tube with polished tips
117033030	2009-2013 GM/Chevy 1500 Pickup 5.3L gas 2WD/4WD	Fully polished

PART NO.	APPLICATION	FINISH
117040020	2014-2019 GM/Chevy 1500 Pickup 4.3L and 5.3L gas 2WD/4WD	Raw tube with black tips
117040030	2014-2019 GM/Chevy 1500 Pickup 4.3L and 5.3L gas 2WD/4WD	Raw tube with polished tips
117043030	2014-2019 GM/Chevy 1500 Pickup 4.3L and 5.3L gas 2WD/4WD	Fully polished

DURAMAX CAT-BACK EXHAUST SYSTEM WITH TIPS

4" 304 stainless steel straight-pipe, "Cat-Back" with no muffler and excellent flow characteristics.

Turbo charged engines need as little exhaust restriction as possible in order for the turbo to spool up faster and work more efficiently. Install our new reduced-restriction exhaust system to ensure your truck is working at its best. Sounds great, looks great and upgrades your truck with long-lasting performance.

PART NO.	APPLICATION	FINISH
117010350	2007.5-2017 GM 6.6L Duramax	Raw finish

POLISHED 304 STAINLESS STEEL EXHAUST TIPS

Make a statement. Dress up your boring factory exhaust pipe with this highly polished, 304 stainless steel Exhaust Tip. Engineered for a perfect fit over the factory exhaust pipe, giving you a dramatic styling upgrade. Includes a heavy-duty 304 stainless steel clamp. Fits over 4" tube connection.

Exhaust Tip Only

PART NO.	SIZE	APPLICATION
117020000	4"	2001-2007 GM 6.6L 2500HD/3500HD Duramax
117021500	5"	2015-2020+ GM 6.6L 2500HD/3500HD Duramax

Exhaust Tip with 4" Pipe Section - Eliminates restrictive OEM tail pipe section

PART NO.	APPLICATION
117020100	2017-2020+ GM 6.6L 2500HD/3500HD Duramax



Fits over the stock exhaust tip



117021500



Replaces long, stock, restricted L5P exhaust pipe



117020100



DOMINATE WITH OUR COMPOUND TURBOS.

BIG RACE TURBO KIT

If you are looking to make record-breaking horsepower and torque, then you need one of our Big Compound Turbo Race Kits.

Capable of supporting 1000+ hp, these kits include technology found in our smaller kit, with the added airflow from the larger turbos, as well as a reinforced intercooler to handle the higher boost pressures.

The Big 55/45 and 55/42 Race Kits are hand built for your engine; with the option to size the turbos according to your specific needs.

GM 6.6L Duramax Applications:

PART NO.	DESCRIPTION
116554200	55/42 Big Race Turbo Kit
116554500	55/45 Big Race Turbo Kit

Call us at 714-985-4825 for configuration before placing your order.

Features:

- Garrett GTX4508R and GT4094R/GTX4088R ball bearing-equipped, water, and oil-cooled turbo
- Race High flow Exhaust Manifolds with Up-Pipes
- TiAL Wastegate
- Custom 3" intake bridge, 4" crossover tube
- PPE's reinforced, High-Flow Performance Intercooler
- Seamless 3" aluminum intercooler tubes
- Aluminum coolant overflow reservoir
- Interlocking No-leak exhaust flanges
- Retains A/C and heater functions
- Triangulated turbo mounting bracket, improves reliability
- Aerospace inspired lined stainless steel bellows for all exhaust tubing

45/40 COMPOUND TURBO KIT

PPE has designed the most comprehensive Compound Turbo Package on the market! We supply you with everything you need. By design, the turbos compliment each other so they can deliver power throughout the entire power band. The PPE 45/40 Compound Turbo Package is just the thing for customers who are serious about adding massive torque and horsepower to their Duramax.

Anyone looking to get their engine to produce big power that translates into pulling away from their competitors at the starting line, then look no further. The key is how the strengths of the Garrett GTX4508R and GT4094R (or optional GTX4088R) are linked and how both turbos work together at all times. Both turbos are made by Garrett and are oil, and water-cooled (just like the OEM turbo charger) with ball bearings to ensure they provide unparalleled reliability as well as drivability.

Each turbo has its own purpose and does its job efficiently. The GT4094R/GTX4088R spools-up quicker resulting in excellent low to midrange power. Once the engine hits mid-range and above the Wastegate diverts excess exhaust drive pressure to the GTX4508R. It is the GTX4508R which supplies the mid to high-end power that will really put your Duramax into overdrive.

PPE combines the turbos with a custom 3" intake bridge and features a 4" crossover tube and Race High Flow Exhaust Manifolds with Up-Pipes. This combination provides the engine with drastically enhanced intake and exhaust actions which creates an unrestricted flow for the dual turbo system. Speaking of flow, the PPE High Performance Intercooler cools the air before it is pumped into the engine via the 3" aluminum boost tubes. The result is a virtually seamless delivery of power that works especially well with PPE's electronic and fuel upgrades.

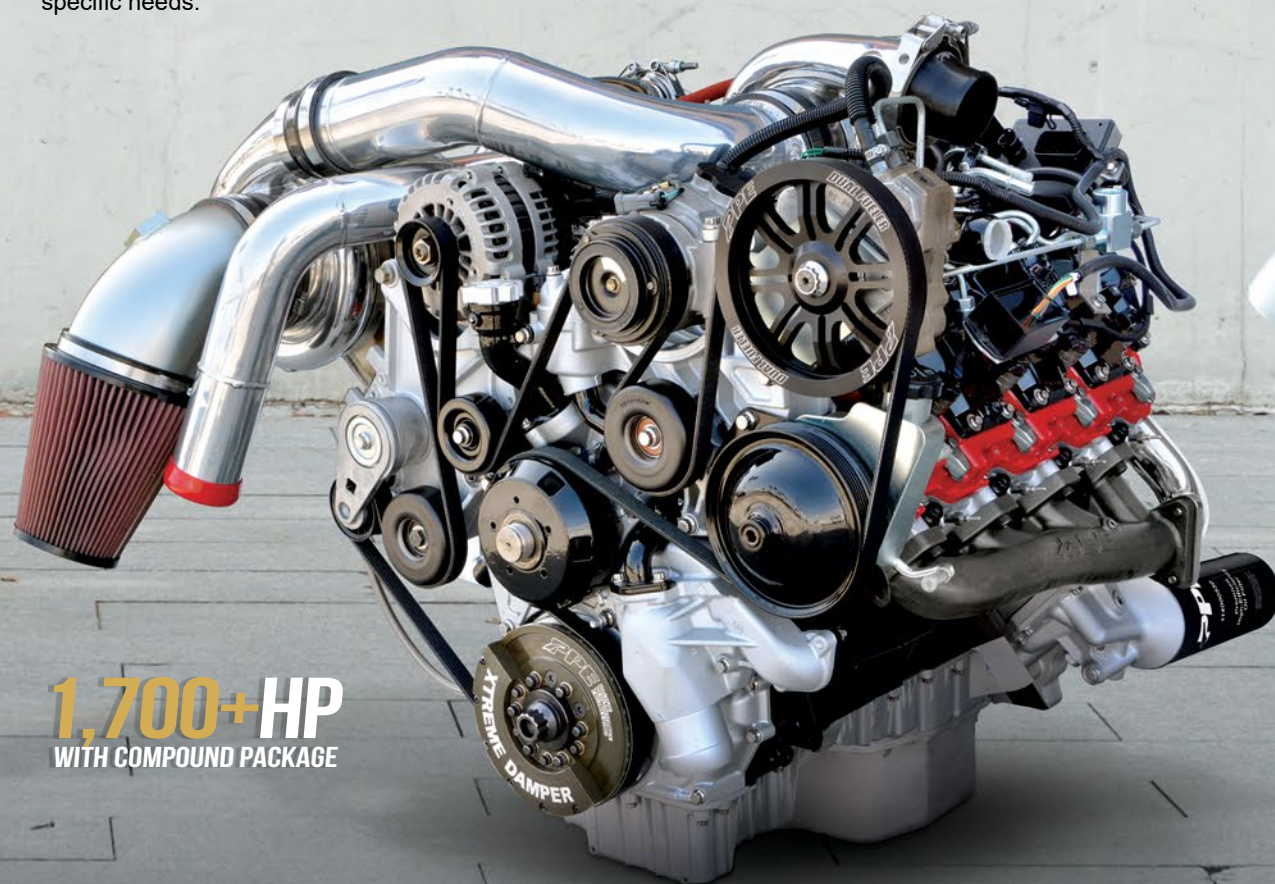
The PPE compound turbo system does all this and still retains A/C and heater functionality. This way, you can be comfortable while smoking the competition!

45/40 Compound Turbo Kit

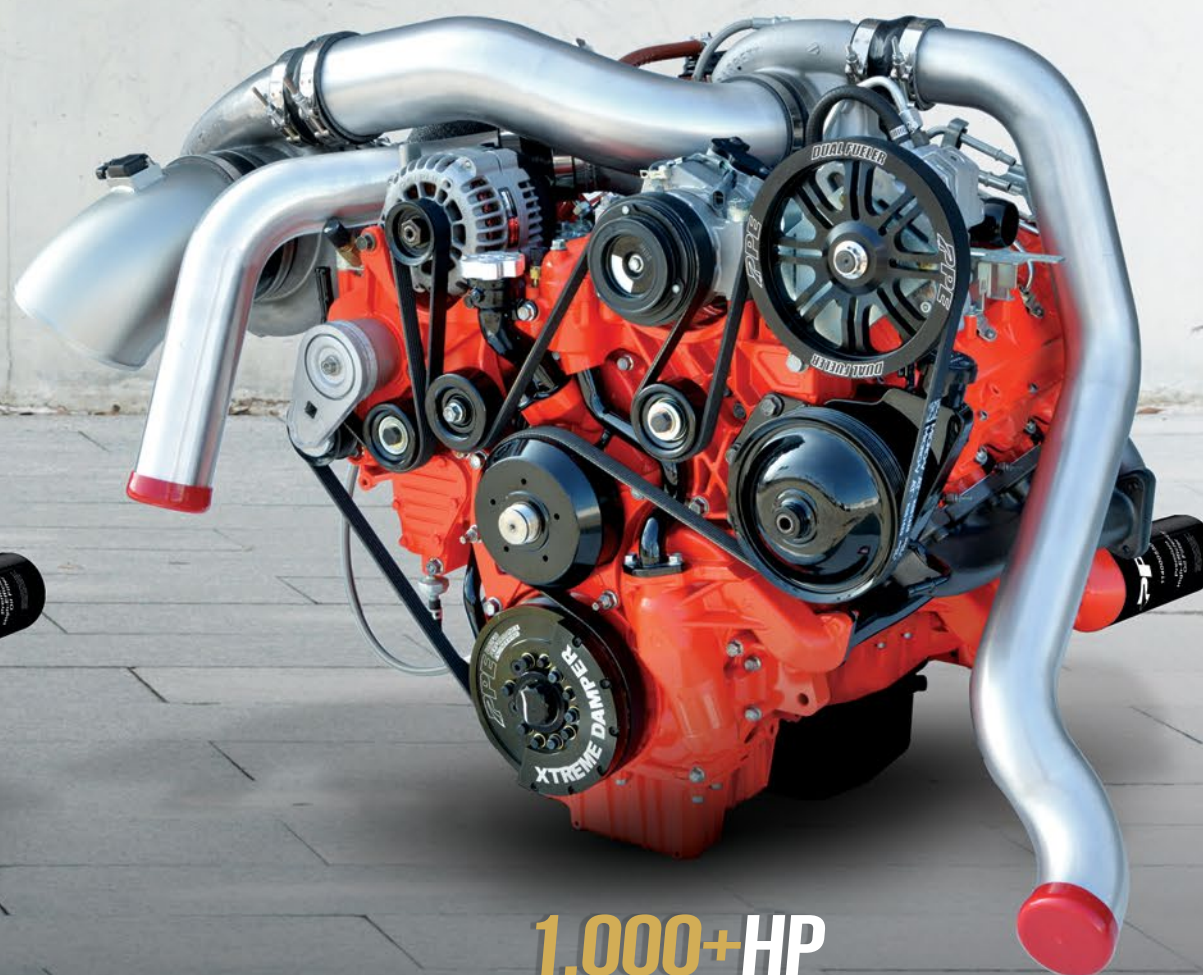
PART NO.	APPLICATION
116454000	2004.5-2005 LLY 2006-2010 LBZ/LMM

Note: For 2001-2004 LB7 trucks please call. Kit described here with optional GTX series turbos

Special Parts Notice:
This part has been specifically designed for race application only. Since the installation of this part may either impair your vehicle's emission control performance or be uncertified under current Motor Vehicle Safety Standards, it should not be installed in a vehicle used on any street or highway. Additionally, any such application could adversely affect the warranty coverage of such an on-street or highway vehicle.



1,700+HP
WITH COMPOUND PACKAGE



1,000+HP
WITH COMPOUND PACKAGE



GT40R SERIES TURBO INSTALLATION KIT

The factory turbocharger limitations are restrictive to other modifications done to an engine. For customers who need more power, or plan to upgrade their electronics, fuel delivery, and exhaust systems, the next step is to add more boost/efficiency. With a PPE turbo installation kit, adding a mid-size framed turbo with a T4 mount is a bolt-on installation.

At the heart of this kit, is a cast PPE T4 Pedestal, which was specifically designed to support the weight of the turbocharger. The T4 Pedestal is made from the same high-sil moly material as our Race High-flow Exhaust Manifolds. Also included, is a 304 stainless steel, mandrel-bent, 3" diameter Down-Pipe that connects the turbo to a stock exhaust system via supplied V-band clamps. The mounting hardware, gaskets and hoses are also supplied.

Thanks to its T4-ready pedestal, this kit will mount any T4 based turbocharger. But for those of you who want it all, PPE offers a kit that comes with a high-quality Garrett GT40R turbocharger. PPE and Garrett have worked together on many projects. Because of this successful partnership, we use Garrett turbochargers as the first choice in our GT40R Series Turbo Kit.

Features:

- Turbo Pedestal for use with aftermarket 40 series turbos
- Turbo weight supported by pedestal framework, not by tubing
- High-velocity tubular design
- Low heat-loss 304 stainless steel construction
- V-band clamps Included

PART NO.	APPLICATION
116005000	2001-2004 LB7 Kit
116006100	2001-2004 LB7 Kit plus 4088R Turbo
116006600	2001-2004 LB7 Kit plus 4094R Turbo
116005500	2004.5-2005 LLY Kit
116006200	2004.5-2005 LLY Kit plus 4088R Turbo
116006700	2004.5-2005 LLY Kit plus 4094R Turbo
116005600	2006-2010 LBZ/LMM Kit
116006500	2006-2010 LBZ/LMM Kit plus 4088R Turbo
116007000	2006-2010 LBZ/LMM Kit plus 4094R Turbo

Replacement gaskets are available for sale separately if needed.

GT42 OR 45R SERIES LARGE FRAME TURBO INSTALLATION KIT

There is no substitute for size when it comes to turbochargers. Our customers want BIG. So we are giving every Duramax diesel owner the chance to super-size their turbo to the equivalent of a 42 or 45 Series turbo by using our GT42 or 45R Series Turbo Installation Kit.

Having an engine that is producing big power requires the components are able to take the punishment, that's why we cast our pedestals from the same high-sil moly material as our Race High-Flow Exhaust Manifolds.

Our kit was specifically designed to support the weight of a turbocharger. The sturdy pedestal will mount any T4 based turbocharger into the stock location quickly and easily.

We have included everything needed to install a turbocharger by providing the pedestal, mandrel-bent tubes and 304 stainless steel 3.5" Down-Pipe with V-band clamps,

all of the necessary mounting hardware, gaskets and hoses. Our kits are perfect for the individual who intends to run a large-frame turbo such as a Garrett 42R or 45R. PPE and Garrett have a long-standing relationship in creating ultimate performance enhancements, which is why Garrett is the turbocharger of choice for our GT42 or 45R Series Turbo Kits.

Features:

- Turbo weight supported by pedestal, not by tubing
- High-velocity design to optimize exhaust gas flow

PART NO.	APPLICATION
116006000	2001-2010 LB7/LLY/LBZ/LMM Kit

Kit available with GT42, GT45 or GTX42, GTX45 Turbos
Replacement gaskets are available for sale separately if needed.



Kit shown: 116006000



304 STAINLESS STEEL DOWN-PIPES

Made from full 304 stainless steel, these high-quality Down Pipes feature a smooth, round finish for high flow. Included is a woven 3/4" thick titanium, heat-resistant sleeve with reinforced stitching to reduce engine bay temperatures, even under heavy loads and drag racing.

PART NO.	SIZE	COMPATIBLE WITH
116005060	3"	GT40 and GTX40 Series
116005062*	3"	GT40 and GTX40 Series
116006060	3.5"	GT42 and 45R Series

*Use with PPE T4 Riser Block (116006058, 116006059).
*Please see page 29 for special purchase guidelines.



T4 RISER BLOCK FOR GT42R OR LARGER

An additional turbocharger riser block is required for larger bodied turbos.

PART NO.	WASTEGATE	SIZE
116006058	No	2-3/8" height
116006059	Yes	2-3/8" height, 1-7/8" wastegate side port

All mounting hardware included: 4 studs and 4 nuts.
Sold separately T4 Divided Gasket (118062040).

T4 TURBO PEDESTAL

Cast from the same hi-sil moly as PPE's High Flow Race Exhaust Manifolds, these 3.94" tall (100mm) pedestals are the latest generation in design from the PPE engineers. These units securely mount any T4 based turbocharger.

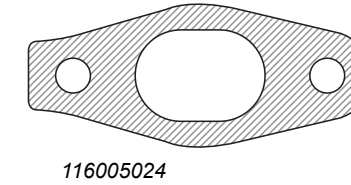
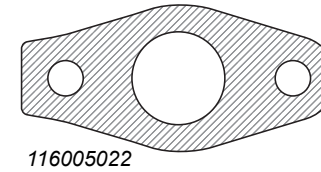
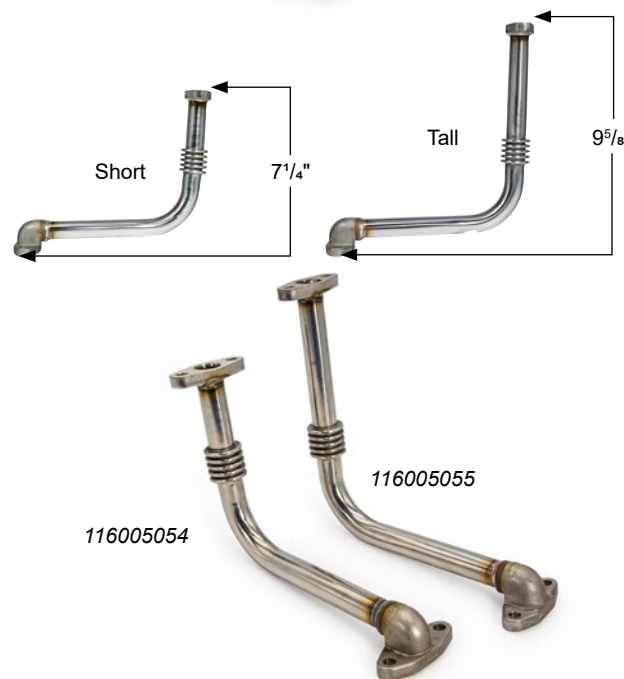
PART NO.	APPLICATION
116005059	2001-2010 LB7/LLY/LBZ/LMM

Note: 2001-2004 LB7 applications will need pedestal and turbo flange modification to clear the Intake Runner

304 STAINLESS STEEL TURBO OIL RETURN PIPES

Larger turbos are often mounted higher than the stock turbo, this makes the factory oil return pipe too short to fit. The solution is the PPE one-piece Oil Return Pipe. Manufactured in two lengths, designed to work with PPE turbo install kits and most aftermarket turbo kits. Featuring one-piece 304 stainless steel design, with a 304 stainless steel bellow which allows for flex, and ensures long-lasting performance for your upgraded turbo on a Duramax.

PART NO.	APPLICATION	SIZE
116005054	2001-2016 Duramax	Short
116005055	2001-2016 Duramax	Tall



TURBOCHARGER OIL DRAIN LINE GASKETS

These Turbocharger Oil Line Gaskets are designed to work under pressure. Made by Interface Solutions from their high-performance CMP-4000 material, these gaskets resist high-pressures and temperatures far more than sealant. Available for stock turbo oil return pipe.

PART NO.	DESCRIPTION
116005022	Round passage - upper
116005024	Oval passage - lower



BOOST INCREASE VALVE

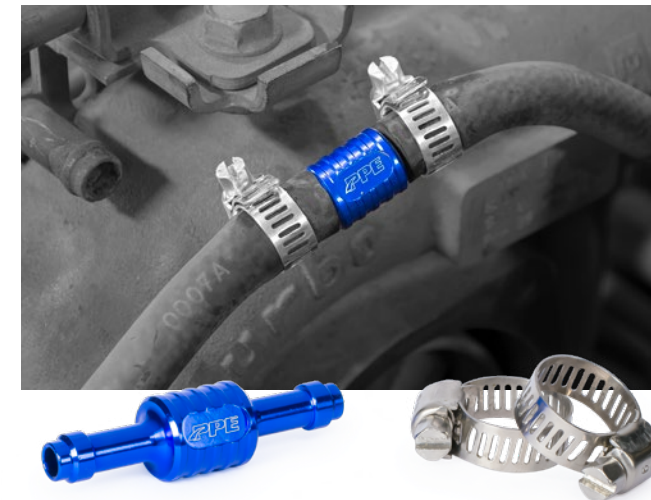
For vehicles with fueling modifications, the PPE Boost Increase Valve will increase your turbo boost pressure from the stock 18-20 psi to 23-25 psi and will reduce those dreaded EGTs in an easy, five minute installation.

Features:

- Increased boost means increased air flow
- Easy, 5 minute installation
- Reduces EGTs (Exhaust Gas Temperatures)

PART NO.	APPLICATION
116030000	2001-2004 LB7

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-13



WE GOT YOU COVERED.

Both stock and performance-enhanced engines create excessive heat. High heat reduces performance, degrades under hood wiring, hoses, and even paint. Protect your engine bay and promote increased performance with these easy installs.

Find these protective options in our Universal section, starting on page 164.



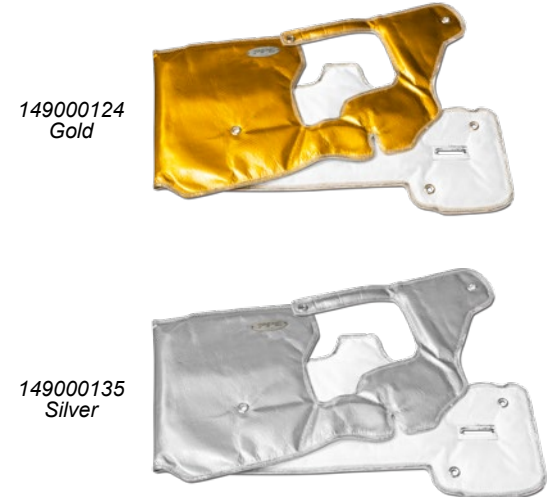
HEAT AND SOUND INSULATOR FIREWALL

Diesel engines produce a lot of heat, especially in high-output situations like towing, racing, and light-to-light driving.

Time to upgrade your tattered, dirty firewall insulation with the brand new PPE Insulator Firewall. Create a barrier between you and the heat on your 2001-2005 GM Truck with this custom-fit replacement.

This functional upgrade features merrowed stainless steel edging for long-lasting performance and grommets for an OEM fit. The ceramic fiber interior is sandwiched between the tightly woven silicone fiberglass outer fabric and the woven silica inner panel.

PART NO.	APPLICATION
149000105 Black	2001-2005 LB7/LLY GM 6.6L Duramax 2500HD/3500HD 2001-2005 All gas engines 2500-3500
149000124 Gold	2001-2005 LB7/LLY GM 6.6L Duramax 2500HD/3500HD 2001-2005 All gas engines 2500-3500
149000135 Silver	2001-2005 LB7/LLY GM 6.6L Duramax 2500HD/3500HD 2001-2005 All gas engines 2500-3500



Can be installed without removing engine.

Reduced engine heat and noise entering the cab

Tightly woven silicone fiberglass fabric

149000105 Black

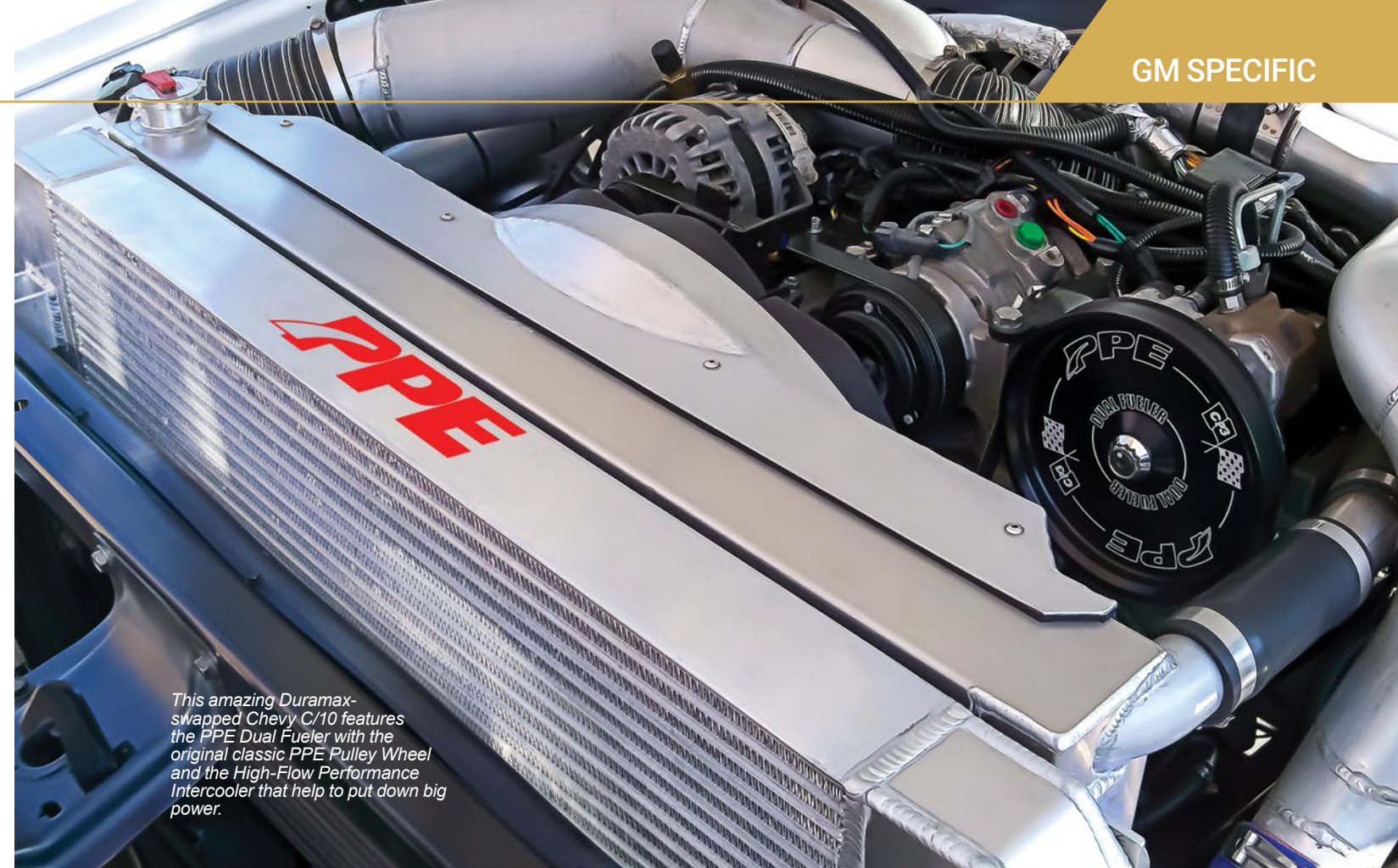
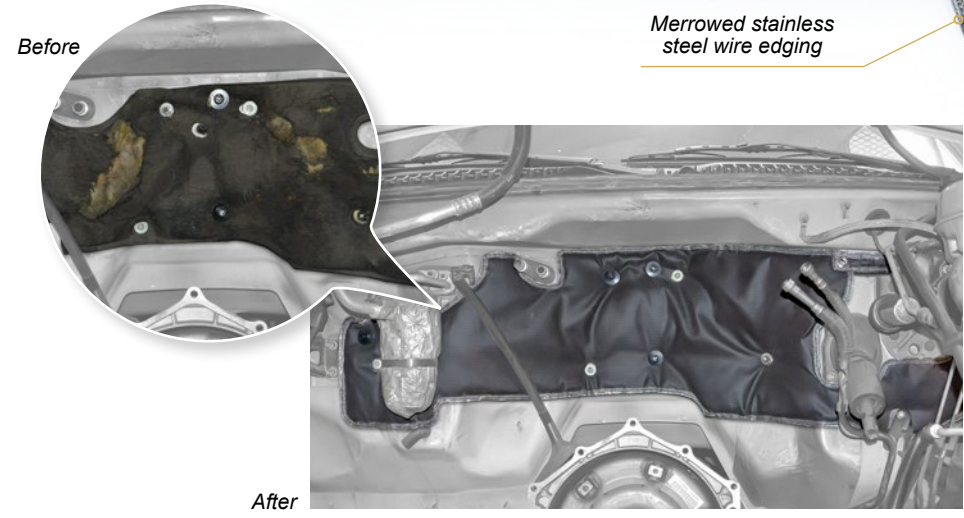


Ceramic fiber interior

Woven silica inner panel

Merrowed stainless steel wire edging

Temperature resistant up to 1,290°F



This amazing Duramax-swapped Chevy C/10 features the PPE Dual Fueler with the original classic PPE Pulley Wheel and the High-Flow Performance Intercooler that help to put down big power.



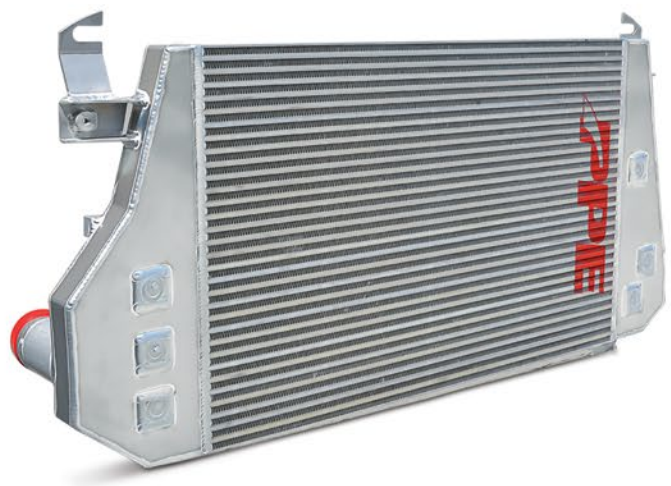
PINNED, HIGH-FLOW PERFORMANCE INTERCOOLERS

Testing has shown that the factory GM intercooler causes a 2 to 3 (+) psi pressure drop, so the boost from even the largest turbocharger can be choked if the intercooler is inefficient. With PPE's High Flow Performance Intercooler, pressure drop (wasted energy) is virtually eliminated. There is simply no comparison between the effectiveness of the PPE High Flow Performance Intercooler and the stock unit. Providing 2,142 cu. in. of cooling volume, which is 98% more volume over the stock unit's 1,083 cu. in., the PPE's High-Flow Performance Intercooler not only cools a larger volume of air but it also does it faster and more efficiently. All of which equals more horsepower and fuel economy for your truck, and it still fits into the stock mounting holes! Optional studed end tanks are available for high-boost applications of 55 to 100 +PSI. The PPE

High-Flow Performance Intercooler works with stock or PPE Performance Silicone Kits.

Features:

- Increases efficiency, reduces pressure-drop across intercooler
- All-aluminum construction
- Increases fuel economy
- Reduces EGTs



PART NO.	APPLICATION
115040000	2001-2005 LB7/LLY
115040100	2001-2005 LB7/LLY Pinned Intercooler
115041000	2006-2010 LBZ/LMM
115041100	2006-2010 LBZ/LMM Pinned Intercooler

Both applications are pinned to handle high-boost pressures of 55 to 100+ PSI.

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-26



HIGH-FLOW INTAKE MANIFOLDS

High-performance engines require sufficient airflow, as well as fuel, to be optimally efficient. PPE's High-Flow Intake Manifold eliminates the restrictive air intake heater, and quickly channels every precious pound of turbo boost into the engine. The result is more horsepower and lower EGTs.

The lightweight aluminum design features a relocation port for the turbo boost pressure sensor.

Perfect for custom, hot rod or marine applications.

Features:

- 2-1/8" NPT ports
- Full 3" intake ported bridge
- 3" robust cast end resists distortion from hose clamp

PART NO.	APPLICATION	FINISH	SIZE
115053130*	2006-2010 LBZ/LMM	1 Pc. Polished	3"
115053100*	2006-2010 LBZ/LMM	1 Pc. Raw	3"

*Not compatible with EGR or stock turbos. To be used with PPE turbo pedestal and riser. Race applications only.



PART NO.	APPLICATION	FINISH	SIZE
115053500**	2006-2010 LBZ/LMM	2 Pc. Raw	3"
115053530**	2006-2010 LBZ/LMM	2 Pc. Polished	3"
115053512**	2006-2010 LBZ/LMM	2 Pc. Red	3"
115053522**	2006-2010 LBZ/LMM	2 Pc. Blue	3"
115053552**	2006-2010 LBZ/LMM	2 Pc. Orange	3"
115053554**	2006-2010 LBZ/LMM	2 Pc. Yellow	3"
115053520**	2006-2010 LBZ/LMM	2 Pc. Black	3"

**Not compatible with EGR. To be used with stock turbos and PPE turbo pedestal without riser. Race applications only.

LEFT/RIGHT BANK MANIFOLDS

With these PPE Left and Right Side Cylinder Head Bank Manifolds, your diesel will look and perform amazing.

Used to convert the smaller LB7 to the larger LBZ style intake runners. Great for marine or hot rod racing applications, these manifolds match perfectly with our polished or raw High-Flow Intake Manifolds.

PART NO.	APPLICATION	FINISH
115051200	2006-2010 LBZ/LMM	Polished
115051500	2006-2010 LBZ/LMM	Raw



PERFORMANCE WATER-TO-AIR INTERCOOLER

PPE's Water-To-Air Intercooler offers significantly lower pressure-drop over traditional intercoolers. Increased air flow is achieved with a large internal core for increased heat transfer and reduced restriction. Designed for use with high-CFM turbos and superchargers.

Featuring aluminum construction, welded 1/2" NPT coolant inlet/outlet and a compact design, PPE's Water-To-Air Intercooler saves space in your build, and increases output efficiency.

PART NO.	DESCRIPTION
415040300	3" Duct
415040350	3.5" Duct



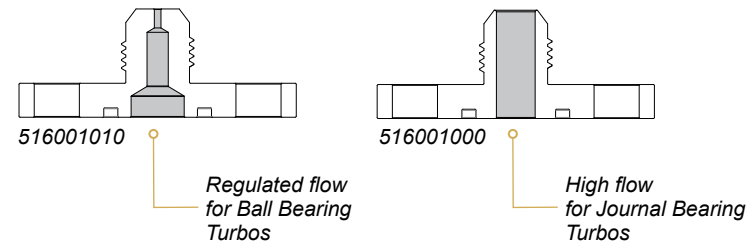
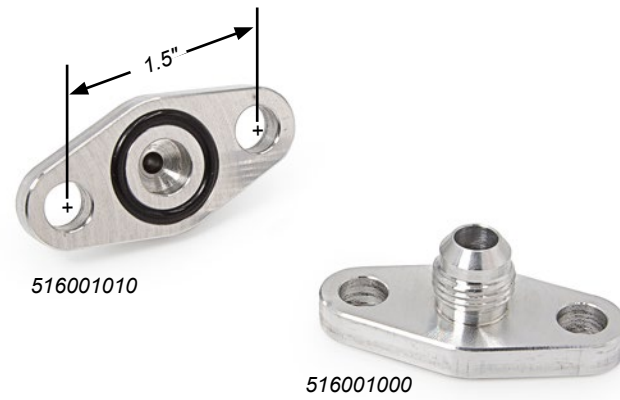
OIL FEED LINE ADAPTERS

PPE's CNC machined Oil Feed Line Adapter simplifies oil line installation and reduces the number of pieces required to make the turbocharger oil feed line connection.

Made from billet aluminum, the adapter installs with a tight O-Ring seal and accepts standard -6 AN threaded fittings.

PART NO.	DESCRIPTION
516001010*	Oil Feed Adapter - Ball Bearing Turbos
516001000	Oil Feed Adapter - Journal Bearing Turbos

*Use for ball bearing turbos which require regulated oil feed.



OIL GALLEY FEED LINE FITTING

The PPE Oil Galley Feed Line Adapter was designed to work with single or compound turbo systems. Its -6 AN fitting easily connects the engine's lower oil galley to the turbocharger via a stainless steel braided oil pressure feed line (sold separately).

Features:

- Draws directly from lower oil galley
- Works with PPE T4 Oil Feed Line Adapter

PART NO.	APPLICATION
516000800	Oil Galley Feed Line Fitting

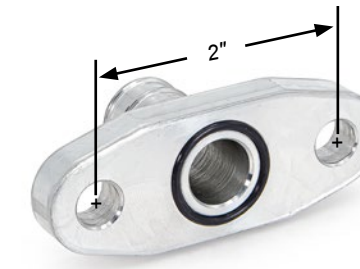


TURBO COOLANT FITTINGS

Features:

- Hard anodized aluminum fittings
- Clean installation
- Compatible with Garrett Turbos

PART NO.	APPLICATION
116005033	M18-1.25 to 3/8" barb
116005035	M18-1.25 to -6AN
116006034	M18-1.25 to 1/2" barb
116006036	M18-1.25 to 1/4 FIP



OIL DRAIN FITTING

Companion to the PPE Oil Feed Line CNC machined Adapter, the PPE CNC machined Turbo Oil Drain Fitting is made from billet aluminum and simplifies oil drain line installation.

Made from billet aluminum, the adapter installs with a tight O-Ring seal and accepts a rubber 5/8" oil drain line.

PART NO.	DESCRIPTION
516002000	Most popular turbo charger manufacturers

FUEL RAIL MOUNT KIT

When using LBZ left and right bank manifolds on early (2001-2005) trucks, these mounts solve the fuel rail fitment issue. Kit includes 2 fuel rail mounts, washers and mounting bolts.

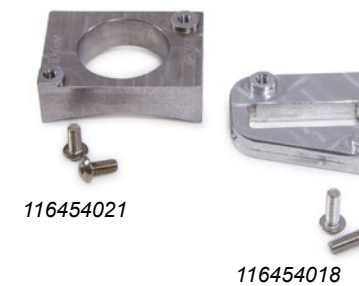
PART NO.	APPLICATION
115051600	2001-2005 LB7/LLY



MASS AIR FLOW SENSOR MOUNTS

If you're building a custom intake for your Duramax you'll need a new place to securely mount the Mass Air Flow sensor (MAF). These raw, fabricator-style MAF mounts are available in mild steel or aluminum to suite your specific needs. They come ready to weld on. Includes new 304 stainless steel hardware to secure the MAF sensor to the PPE mount.

PART NO.	APPLICATION	MATERIAL
116454021	2001-2007 LB7/LLY/LBZ	Mild steel
116454020	2001-2007 LB7/LLY/LBZ	Aluminum
116454019	2007.5-2010 LMM	Mild steel
116454018	2007.5-2010 LMM	Aluminum



PERFORMANCE SILICONE HOSE KITS



PERFORMANCE SILICONE HOSES

Each PPE Performance Silicone Hose is strengthened with 5 plies of NOMEX® reinforced fibers making them very tough. Fluorocarbon lining offers better lubricity (slippery and resistant to chemicals) and the silicone rubber construction ensures they can withstand constant boost pressures and temperatures from -76 degrees all the way to +437 degrees Fahrenheit. PPE silicone will maintain structural integrity even when subject to high boost pressures throughout the temperature range. In short, PPE Performance Silicone Hoses will not blow out like a stock hose will.

PPE's Silicone Hoses are resistant to fuel, oil and chemicals while also being UV and Ozone resistant. These hoses can handle the extreme exposure that heavy usages puts upon them. With multiple sizes and configurations, there is a PPE Performance Silicone Hose for every design application..

Drag racing and sled pulling place huge stress on your truck's silicone hoses in a very short period of time. PPE's hoses were designed to handle the rigors of increased pressures during racing and competition. Their performance tolerances make them an excellent upgrade for your daily driving and the extremes of towing heavy loads.

Features:

- 6mm 5-ply wall thickness
- Handles high boost pressures
- Working pressure: 70 psi - BAR 4.8
- Burst pressure: 207 psi - BAR 14.3
- Higher flow and better lubricity than rubber
- UV and Ozone resistant
- Fluorocarbon lining resistant to oil, fuel and high temperatures

Performance Silicone Hose Kits

PART NO.	APPLICATION
115910101	2001 LB7
115910204	2002-2004 LB7
115910405	2004.5-2005 LLY
115910610	2006-2010 LBZ/LMM
115911114	2011-2016 LML
115901200	2004.5-2016 Kodiak LLY

See next page for detailed description of each kit.



115911114 Performance Silicone Hose Kit shown.

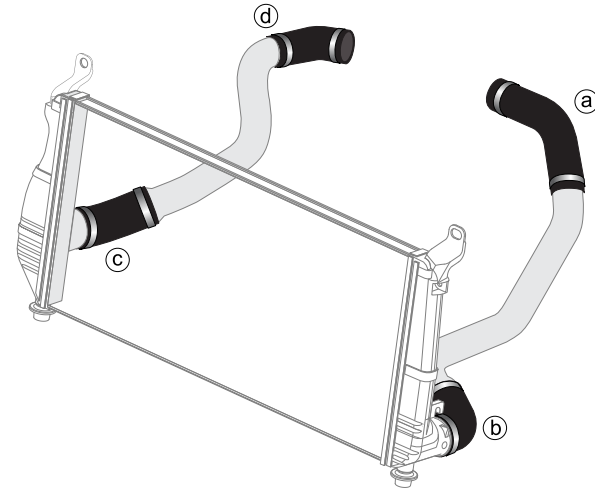


PERFORMANCE SILICONE HOSES

Direct replacement hose kits for your GM truck. Individual kit parts can be ordered separately using the part number.

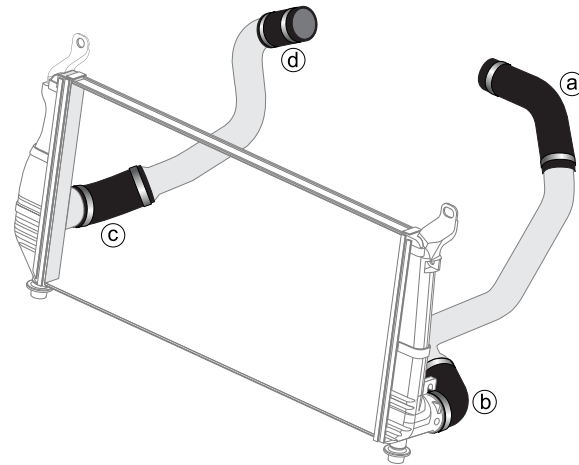
**115910101
2001 LB7 Silicone Hose Kit with stainless steel Clamps**

DESCRIPTION	QTY	PPE PART NO.	GM PART NO.	USE CLAMP
a. 6mm 5-ply Silicone	1	115900100	15061708	71/63
b. 6mm 5-ply Silicone	1	115900200	15124211	92/84
c. 6mm 5-ply Silicone	1	115900300	15034797	92/84
d. 6mm 5-ply Silicone	1	115900000	15034798	71/63
71/63mm T-Bolt	4	515275225		
92/84mm T-Bolt	4	515350300		



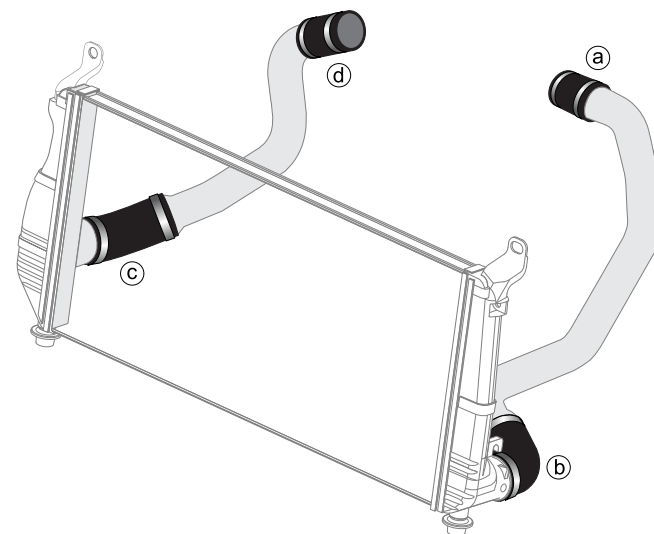
**115910204
2002-2004 LB7 Silicone Hose Kit with stainless steel Clamps**

DESCRIPTION	QTY	PPE PART NO.	GM PART NO.	USE CLAMP
a. 6mm 5-ply Silicone	1	115900100	15061708	71/63
b. 6mm 5-ply Silicone	1	115900200	15124211	92/84
c. 6mm 5-ply Silicone	1	115900300	15034797	92/84
d. 6mm 5-ply Silicone	1	115900400	15198167	71/63
71/63mm T-Bolt	4	515275225		
92/84mm T-Bolt	4	515350300		



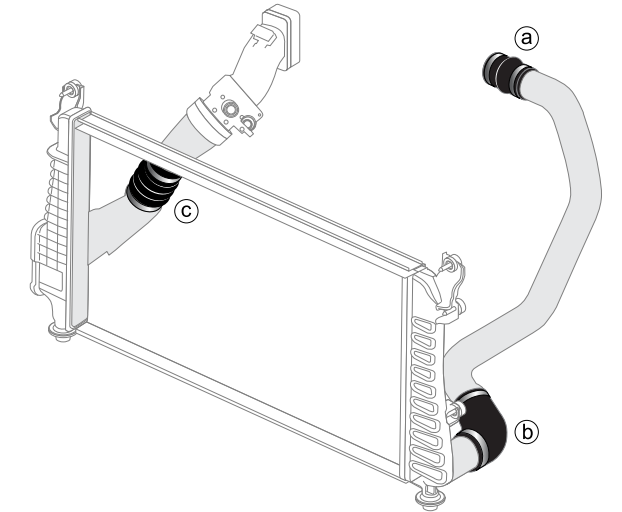
**115910405
2004.5-2005 LLY Silicone Hose Kit with stainless steel Clamps**

DESCRIPTION	QTY	PPE PART NO.	GM PART NO.	USE CLAMP
a. 6mm 5-ply Silicone	1	115900500	15188715	71/63
b. 6mm 5-ply Silicone	1	115900200	15124211	92/84
c. 6mm 5-ply Silicone	1	115900600	15124210	92/84
d. 6mm 5-ply Silicone	1	115900500	15188715	71/63
71/63mm T-Bolt	4	515275225		
92/84mm T-Bolt	4	515350300		



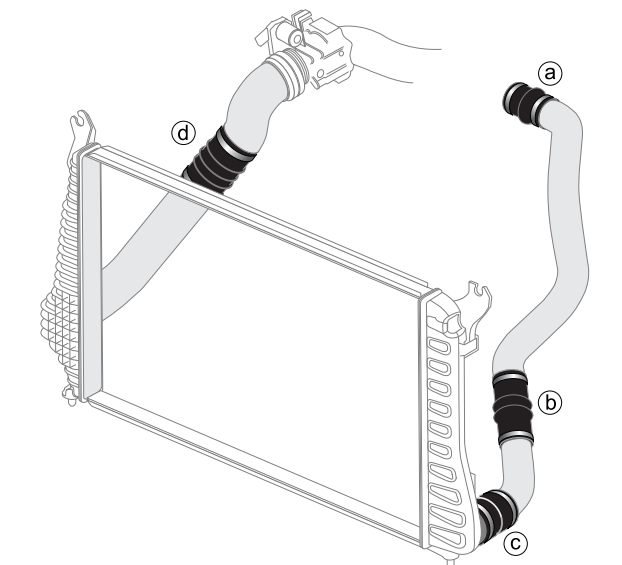
**115910610
2006-2010 LBZ/LMM Silicone Hose Kit with stainless steel Clamps**

DESCRIPTION	QTY	PPE PART NO.	GM PART NO.	USE CLAMP
a. 6mm 5-ply Silicone	1	115900500	15188715	71/63
b. 6mm 5-ply Silicone	1	115900200	15124211	92/84
c. 6mm 5-ply Silicone	1	115900800	15102148	92/84
71/63mm T-Bolt	2	515275225		
92/84mm T-Bolt	4	515350300		



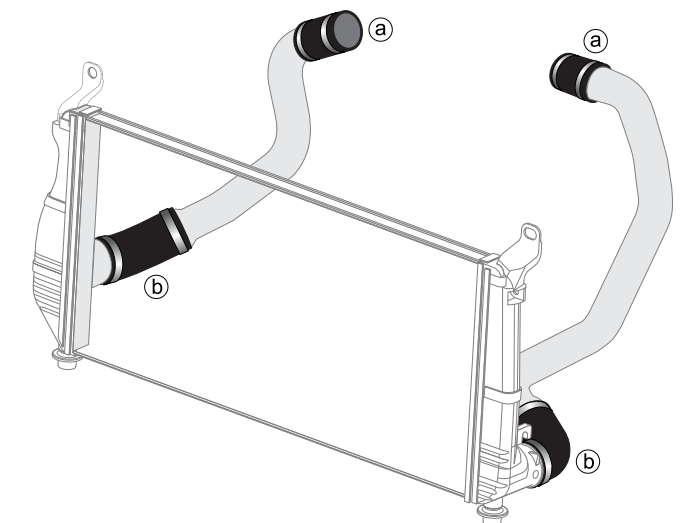
**115911114
2011-2016 LML Silicone Hose Kit with stainless steel Clamps**

DESCRIPTION	QTY	PPE PART NO.	GM PART NO.	USE CLAMP
a. 6mm 5-ply Silicone	1	115900500	15188715	71/63
b. 6mm 5-ply Silicone	1	115901000	AKE98909	92/84
c. 6mm 5-ply Silicone	1	115900900	25869099	94/86
d. 6mm 5-ply Silicone	1	115901100	CP0630R2	78/70
71/63mm T-Bolt	2	515275225		
92/84mm T-Bolt	2	515350300		
94/86mm T-Bolt	2	515375325		
78/70mm T-Bolt	2	515300250		



**115920405
2004.5-2016 Kodiak LLY Silicone Hose Kit with stainless steel Clamps**

DESCRIPTION	QTY	PPE PART NO.	GM PART NO.	USE CLAMP
a. 6mm 5-ply Silicone	2	115900500	15188715	71/63
b. 6mm 5-ply Silicone	2	115901200	15020973	92/84
71/63mm T-Bolt	4	515275225		
92/84mm T-Bolt	4	515350300		



COOLANT OVERFLOW TANK

The PPE Coolant Overflow Tank will hold up to one gallon of coolant. Hand-cut, TIG welded, 6061 aluminum provides more efficient cooling properties. This tank utilizes the location of your second battery and plastic water overflow tank. Mounts to factory bolt locations. Perfect for applications that require a second under-hood battery to be relocated.

Features:

- Hand-cut TIG welded 6061 aluminum
- Billet fill neck with overflow
- Stant Lev-R-Vent 16 lbs. cap
- Easy installation



116454025

PART NO.	APPLICATION
116454025	2001-2007 GM Diesel 2500HD/3500HD 2001-2007 GM Gas 1500/2500/3500
116454075	2007.5-2010 GM Diesel 2500HD/3500HD 2007.5-2010 GM Gas 1500

Use in conjunction with PPE Battery Remount Tray (116454027).

HOSE KIT FOR COOLANT OVERFLOW TANK

Kit Includes:

- (1) 1"(d) x 10"(l) hose
- (1) 7/32"(d) x 30"(l) hose
- (1) 1/2"(d) x 38"(l) hose
- (1) 1" brass adapter
- (2) 1" hose clamps
- (2) 1/2" hose clamps



PART NO.	APPLICATION
116454080	2001-2010 GM Diesel 2500HD/3500HD 2001-2010 GM Gas 1500/2500/3500

Use in conjunction with PPE Battery Remount Tray (116454027).

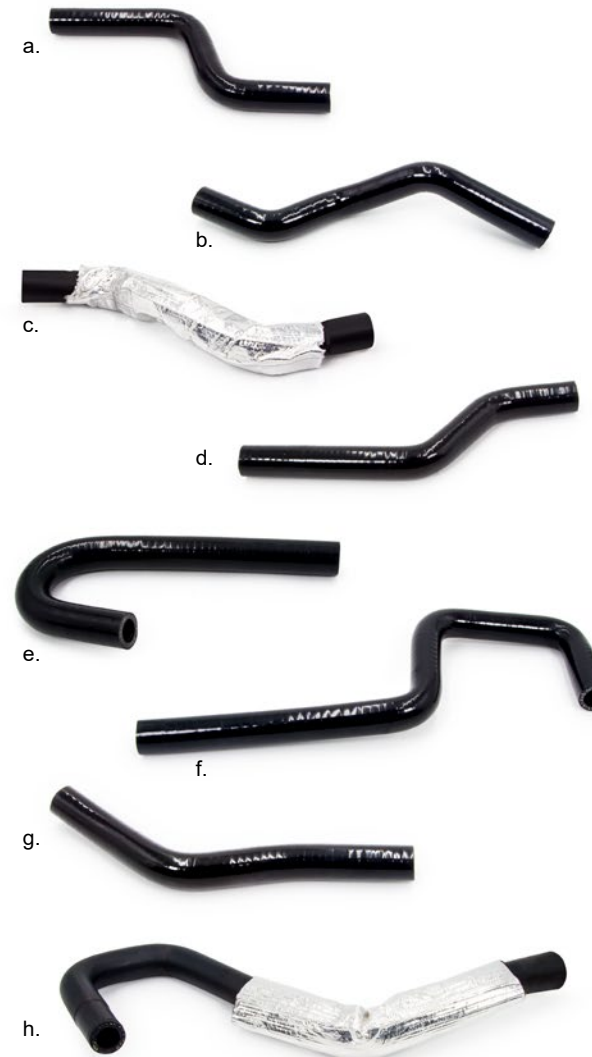
BATTERY RELOCATION TRAY

Mounts second battery on passenger side frame rail.

Used when PPE Coolant Overflow Tank is installed. Use with PPE Compound Turbo Kits.



PART NO.	APPLICATION
116454027	Battery Relocation Tray



PERFORMANCE SILICONE COOLANT HOSES

Designed for a factory fit, these durable 5mm performance silicone hoses are a perfect upgrade when your worn coolant hoses need replacing.

Features:

- 1-ply heat-resistant internal NOMEX® fibers
- Durable, 5 mm thick silicone

Engine to Cab

PPE PART NO.	GM PART NO.	APPLICATION
a. 119020010	15768212	2001-2004 LB7
	15196471	2004.5-2005 LLY
	25800640	2006-2007 LBZ
b. 119020011	25800640	2007.5-2010 LMM
	20984280	2011-2014 LML
c. 119020015	23287228	2015-2016 LML

EGR to Cab

PPE PART NO.	GM PART NO.	APPLICATION
d. 119021004	15145585	2001-2004 LB7
e. 119021007	97333410	2004.5-2007 LLY/ LBZ
f. 119021010	98004176	2007.5-2010 LMM
g. 119021011	12639068	2011-2014 LML
h. 119021015	23321478	2015-2016 LML

TURBO COOLANT HOSES

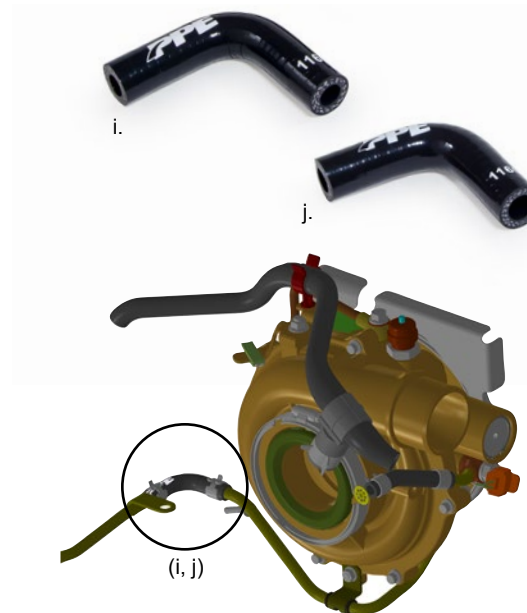
Time and under hood temperatures make the factory turbo coolant hose material brittle. Plus, if you replace your turbo or remove this small coolant hose, the factory rubber typically deforms or tears.

The PPE Turbo Coolant Hose Performance Silicone Hose is reinforced with 3 plies of NOMEX® fibers. The quality silicone is resistant to high-temperatures and is UV and Ozone resistant.

PPE's Turbo Coolant Hose is designed to handle the increased pressure of racing and competition, the stresses of towing heavy loads or stop-and-go daily driving.

Features:

- Reinforced with 3 plies of NOMEX® fibers
- Higher flow and better lubricity than rubber
- UV, Ozone and high temperature resistant



PPE PART NO.	GM PART NO.	SIZE	APPLICATION
i. 116002045	97354884	10mm dia.	2001-2005 LB7/LLY
j. 116002060	97383472	12.7mm dia.	2006-2010 LBZ/LMM



304 STAINLESS STEEL COOLANT REROUTE TUBE

Specifically designed for use in conjunction with the factory thermostat housing. Straight design for use with larger intake bridge. Stainless steel construction prevents corrosion compared with OEM mild steel pipe which is prone to rusting and eventually leaking. Also great for marine applications.

GM 6.6L Duramax - OEM Bend

PART NO.	APPLICATION	FINISH
119000300	2004.5-2007 GM 6.6L Duramax	Raw
119000330	2004.5-2007 GM 6.6L Duramax	Polished

GM 6.6L Duramax - Straight Race Applications

PART NO.	APPLICATION	FINISH
119000200	2004.5-2007 GM 6.6L Duramax	Raw
119000230	2004.5-2007 GM 6.6L Duramax	Polished



304 STAINLESS STEEL COOLANT PIPE THERMOSTAT TO RADIATOR HOSE

Specifically designed for use in conjunction with the factory thermostat housing. 304 stainless steel construction prevents corrosion compared with OEM mild steel pipe which is prone to rusting and eventually leaking. Allows for installation of factory turbo coolant return thermostat. Also great for marine applications.

PART NO.	APPLICATION	FINISH
119001000	2001-2004 GM 6.6L LB7	Raw
119001030	2001-2004 GM 6.6L LB7	Polished
119001100	2004.5-2005 GM 6.6L LLY	Raw
119001130	2004.5-2005 GM 6.6L LLY	Polished
119001200	2006-2010 GM 6.6L LBZ/LMM	Raw
119001230	2006-2010 GM 6.6L LBZ/LMM	Polished



OEM COOLANT TUBE (Coated Steel)

304 STAINLESS STEEL COOLANT BYPASS TUBE

Specifically designed for use in conjunction with the factory water pump. Stainless steel construction prevents corrosion compared with OEM mild steel pipe which is prone to rusting and eventually leaking.

PART NO.	APPLICATION	FINISH
119000600	2001-2005 GM 6.6L Duramax	Raw
119000630	2001-2005 GM 6.6L Duramax	Polished
119000700	2006-2010 GM 6.6L Duramax	Raw
119000730	2006-2010 GM 6.6L Duramax	Polished



FULLY TIG WELDED
All Parts are Fully TIG Welded for Strength

304 STAINLESS STEEL COOLANT PIPE WATER PUMP TO OIL COOLER

Specifically designed for use in conjunction with the factory oil cooler filter housing. This coolant pipe is custom fabricated with a heavy duty flange. 304 stainless steel construction prevents corrosion compared with OEM mild steel pipe which is prone to rusting and eventually leaking.

PART NO.	APPLICATION	FINISH
119030100	2001-2019 GM 6.6L Duramax	Raw
119030130	2001-2019 GM 6.6L Duramax	Polished



OEM COOLANT PIPE (Coated Steel)

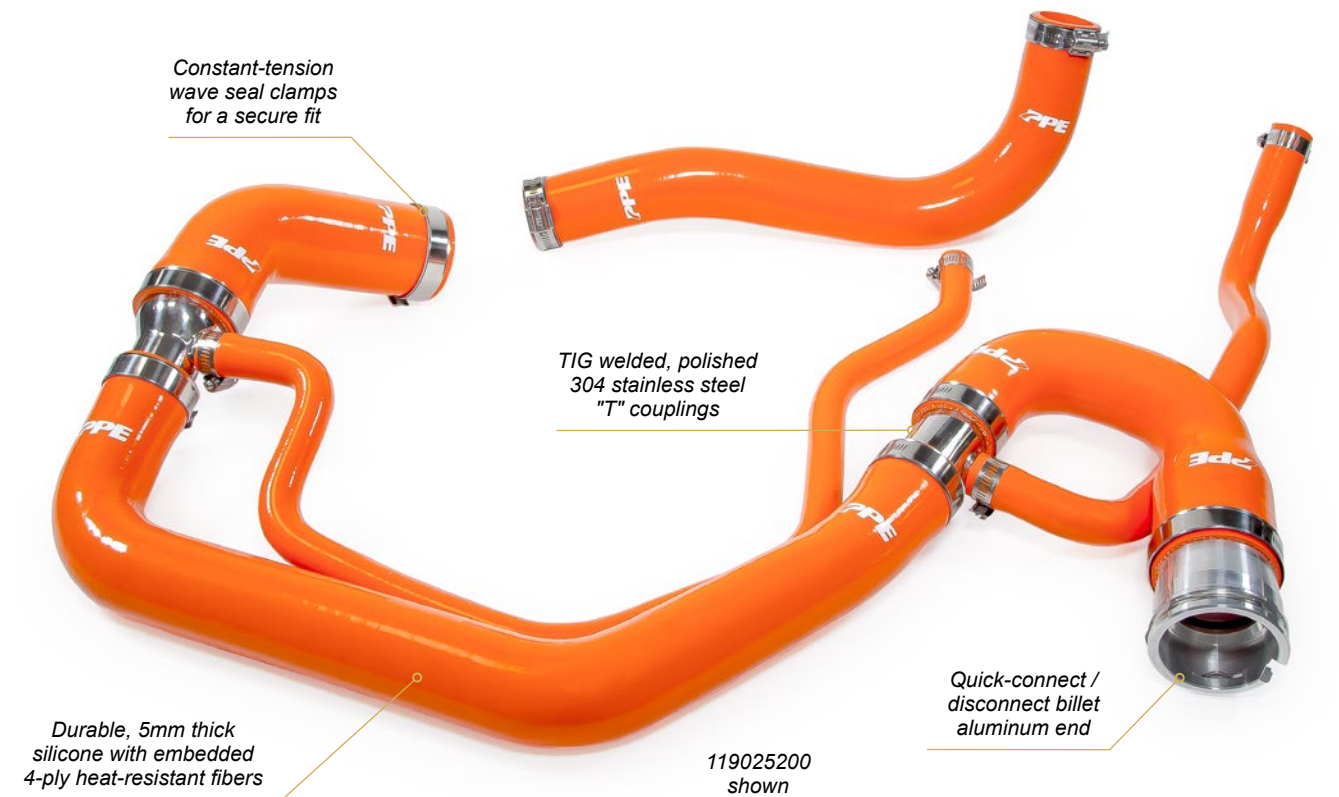


PERFORMANCE SILICONE UPPER AND LOWER COOLANT HOSE KITS

Factory coolant hose "T" fittings are molded hose or made out of plastic and are prone to cracking at junctions, causing coolant loss. Replace your worn or leaky factory coolant hose system with PPE's Performance Silicone Coolant Hose Kit.

Perfect for your stock or highly modified Duramax 6.6L diesel truck. Engineered for performance and durability, featuring 4-ply heat-resistant internal fibers that provide strength to handle high-pressures and temperatures. PPE's Silicone Coolant Hose Kits incorporate TIG welded, polished 304 stainless steel "T" fittings that eliminate any chance of failures at the "T" junctions. Durable 5 mm thick silicone is twice as thick as the factory hose to ensure long-lasting performance. The quick-connect/disconnect (LBZ, LMM, LML) end is made from billet aluminum and 304 stainless steel. Stainless steel constant wave clamps ensure a tight fit.

The PPE Performance Silicone Coolant Hose Kit is a direct bolt-on upgrade that requires no cutting or modifications. Perfect factory fit with better-than-factory performance.



Kits include both Upper and Lower Hoses and are available in six color options.



2001-2005 LB7/LLY

PART NO.	COLOR
119020100	Black
119021100	Red
119022100	Blue
119023100	Green
119024100	Yellow
119025100	Orange

2006-2010 LBZ/LMM

PART NO.	COLOR
119020200	Black
119021200	Red
119022200	Blue
119023200	Green
119024200	Yellow
119025200	Orange

2011-2016 LML

PART NO.	COLOR
119020300	Black
119021300	Red
119022300	Blue
119023300	Green
119024300	Yellow
119025300	Orange





BILLET ALUMINUM VALVE COVERS

Dress up your GM 6.6L Duramax diesel engine with upgraded PPE Billet Aluminum Valve Covers.

Available with or without pillars, these new valve covers are precision machined from billet to an overall thickness of .75"/19mm, 6061-T6 aluminum on a multi-axis mill. The PPE Billet Aluminum Valve Covers are a direct, bolt-on replacement, which retain the factory gaskets, bolts and grommets, and include a 3/4" -16 O-ring boss-style crankcase ventilation port (port accessories sold separate).

Non-pillar versions are available in your choice of black or gold anodized. Each anodized color option is available in a flat or satin finish. Valve covers with pillars are available in your choice of powder coated red, black or blue. You can also choose no color, and go with a brightly polished finish.

Customize your engine bay your way. Complete that show truck look or simply replace that boring, scuffed up OEM cover. Whatever your build needs, these have you covered.

Features:

- Billet 6061-T6 aluminum, superior to stock cast
- Retains stock bolts, gaskets and grommets.
- 3/4" -16 O-ring boss-style crankcase ventilation port
- Sold in pairs

Valve Covers with Pillars

2004.5-2010 GM 6.6L Duramax 2500HD/3500HD

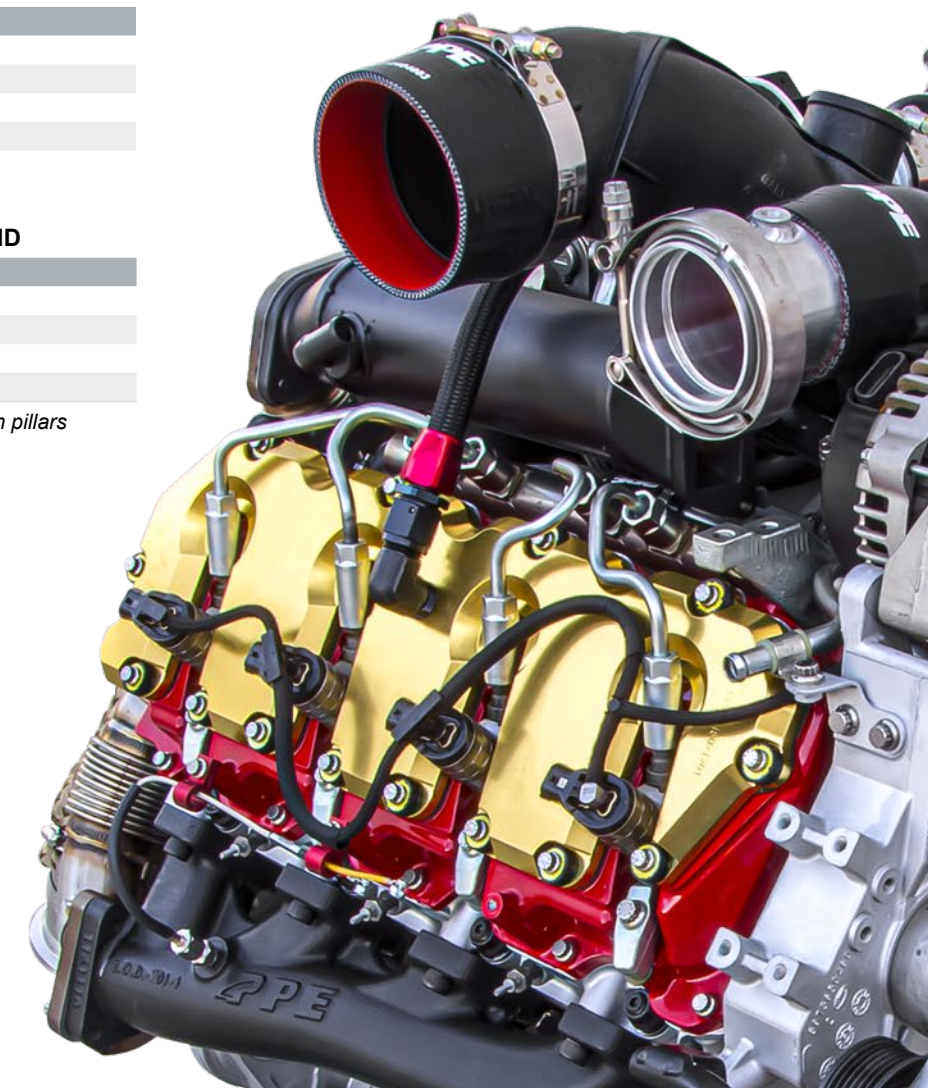
PART NO.	FINISH
118021212	Red powder coat
118021220	Black powder coat
118021222	Blue powder coat
118021230	Polished

Valve Covers without Pillars

2004.5-2010 GM 6.6L Duramax 2500HD/3500HD

PART NO.	FINISH
118021400	Raw
118021418	Black anodized matte
118021423	Gold anodized matte
118021430	Polished

Also available: Individual Valve Cover in raw finish with pillars (118021201) or without pillars (118021401).



DITCH THE GRIT.

Get rid of the dirtiest oil left in the valley of your stock pan from all your previous oil changes.



2 QUART
Additional
Oil Capacity

PPE High-Capacity Cast Aluminum Deep Engine Oil Pan Kit comes complete with hardware, pan, NPT plug and billet stainless steel Neodymium drain plug. All you add is RTV sealant and oil.

DEEP-CAPACITY CAST ALUMINUM OIL PAN

PPE's high-capacity oil pan solves the GM Duramax L5P complete oil drainage problem. The L5P is a powerful workhorse but when you do regular oil changes the stock GM pan retains over half a quart of the dirtiest, heaviest oil. This old oil is trapped in the valley of the stock pan and never drains out. It immediately contaminates your fresh oil.

PPE solves that filthy problem with a flat, angled bottom, designed for more complete drainage. The PPE pan's higher volume holds an additional two quarts of oil. Your engine's fluid capacity is increased, as well as its thermal stamina, which creates a longer service life. Engine temperatures are further reduced because the PPE L5P Oil Pan is constructed of thick, cast aluminum alloy. Plus, we've tapped the side with a convenient NPT port if you want to run a temperature sensor.

A powerful Neodymium magnet equipped, billet hardened stainless steel drain plug is included to pull ferrous metals out of your oil before they can damage the internals. A copper gasket is included to ensure a tight seal.

Replace your factory stamped steel oil pan and get rid of that dirty oil that you've been holding on to. Give your L5P a fresh, clean start with this simple bolt-on upgrade.

Features:

- Flat bottom - solves the complete oil drainage problem associated with GM pan
- Two quart additional oil capacity
- Cast, high-grade aluminum alloy for optimal heat dissipation and reduced engine noise
- Neodymium magnet equipped, billet hardened stainless steel drain plug
- Limited lifetime warranty

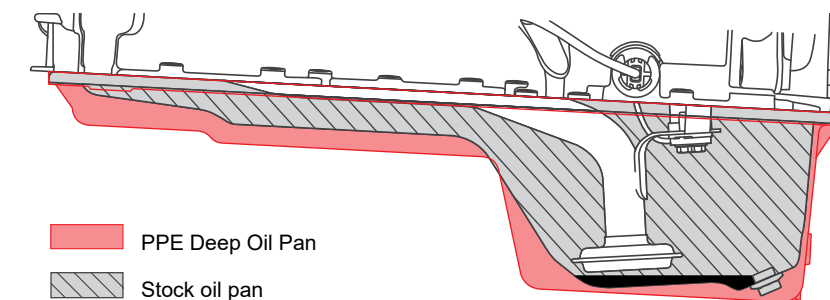
Available in your choice of raw or powder coated black finishes.

PART NO.	FINISH	APPLICATION
114053000	Raw	2017+ L5P GM 6.6L Duramax
114053020	Black	2017+ L5P GM 6.6L Duramax



See the difference:

See the difference: between the oil pick up and pan bottom and the flat bottom of the PPE Pan. The increase in fluid volume contributes to higher oil pressure and better lubrication.



When you change your oil, the valley in the stock GM oil pan retains almost a quart of the dirtiest oil



HIGH-CAPACITY CAST ALUMINUM OIL PAN

The stock Duramax engine oil pan is constructed of stamped steel (very poor heat dissipation) and has a valley at the bottom the pan which prevents your old oil from completely draining on each oil change. This leaves behind nearly a quart of the dirtiest, heaviest oil which immediately contaminates your fresh oil.

PPE's deep oil pan is engineered with a flat bottom which allows you to drain all of your oil pan's dirty engine oil. Made from cast aluminum for strength and optimum heat dissipation. This Deep Pan holds an extra quart of oil so you will see reduced oil temperature, higher oil pressure, and better lubrication to your engine's vital components.

Another feature is the un-shrouded oil pickup. The engine has less restriction near the oil pickup, resulting in higher oil pressure. Higher oil pressure equals better lubrication.

Features:

- Flat bottom - solves the complete oil drainage problem associated with GM pan
- One quart additional oil capacity
- Cast, high-grade aluminum alloy for optimal heat dissipation and reduced engine noise
- Neodymium magnet equipped, billet hardened stainless steel drain plug
- Un-shrouded oil pickup
- Limited lifetime warranty

PART NO.	FINISH	APPLICATION
114052000	Raw	2001-2010 GM 6.6L Duramax - trucks and vans
114052020	Black	2001-2010 GM 6.6L Duramax - trucks and vans
114052100	Raw	2011-2016 GM 6.6L Duramax - trucks and vans
114052120	Black	2011-2016 GM 6.6L Duramax - trucks and vans

See the difference:

See the difference: in volume, the distance between the oil pick up and pan bottom and the flat bottom of the PPE Pan. The increase in fluid volume contributes to higher oil pressure and better lubrication.

- PPE Deep Oil Pan
- Stock oil pan
- When you change your oil, the valley in the stock GM oil pan retains almost a quart of the dirtiest, heaviest oil



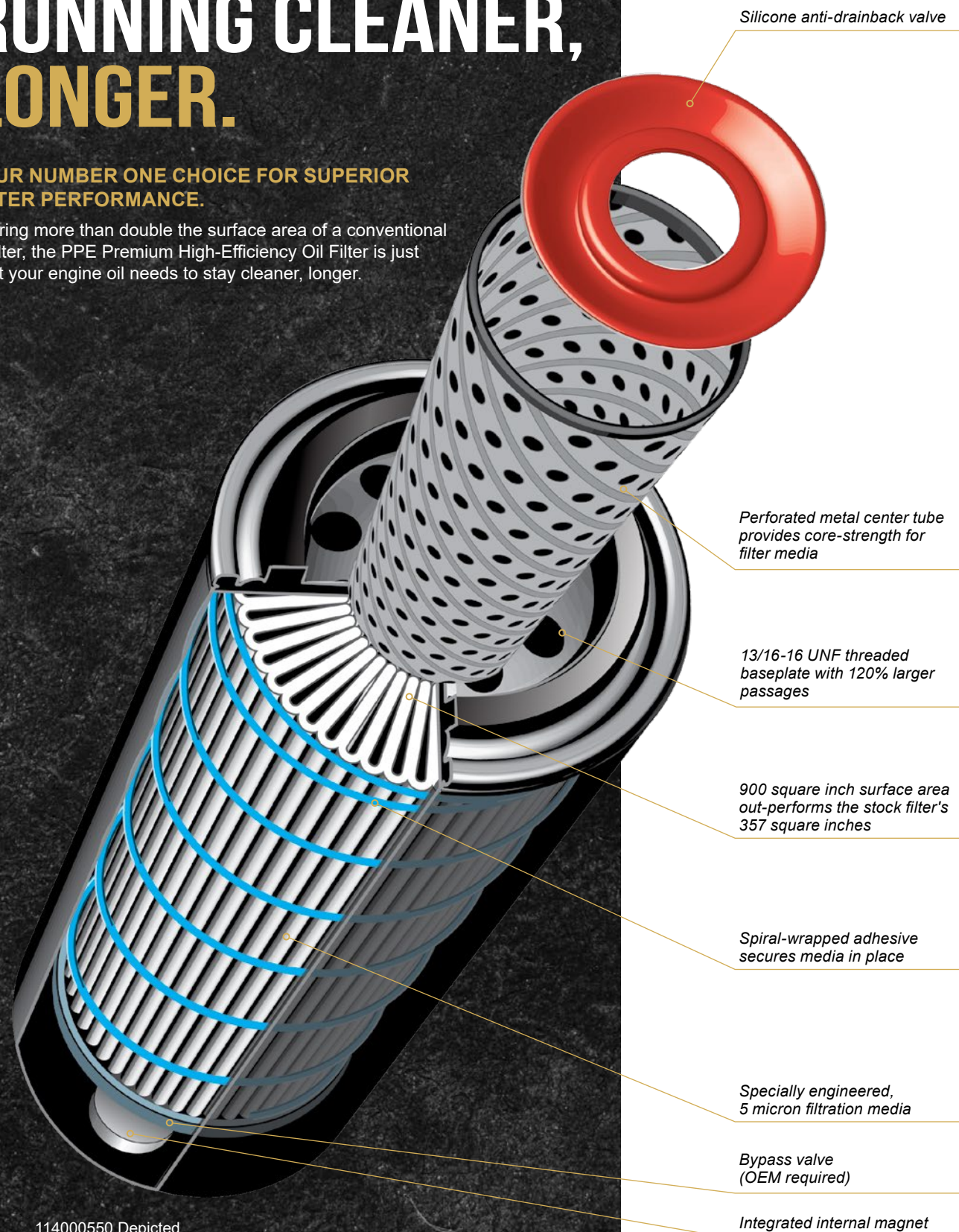
PPE High-Capacity Cast Aluminum Oil Pan Kit comes complete with hardware, pan, NPT plug and billet stainless steel Neodymium drain plug. All you add is RTV sealant and oil.



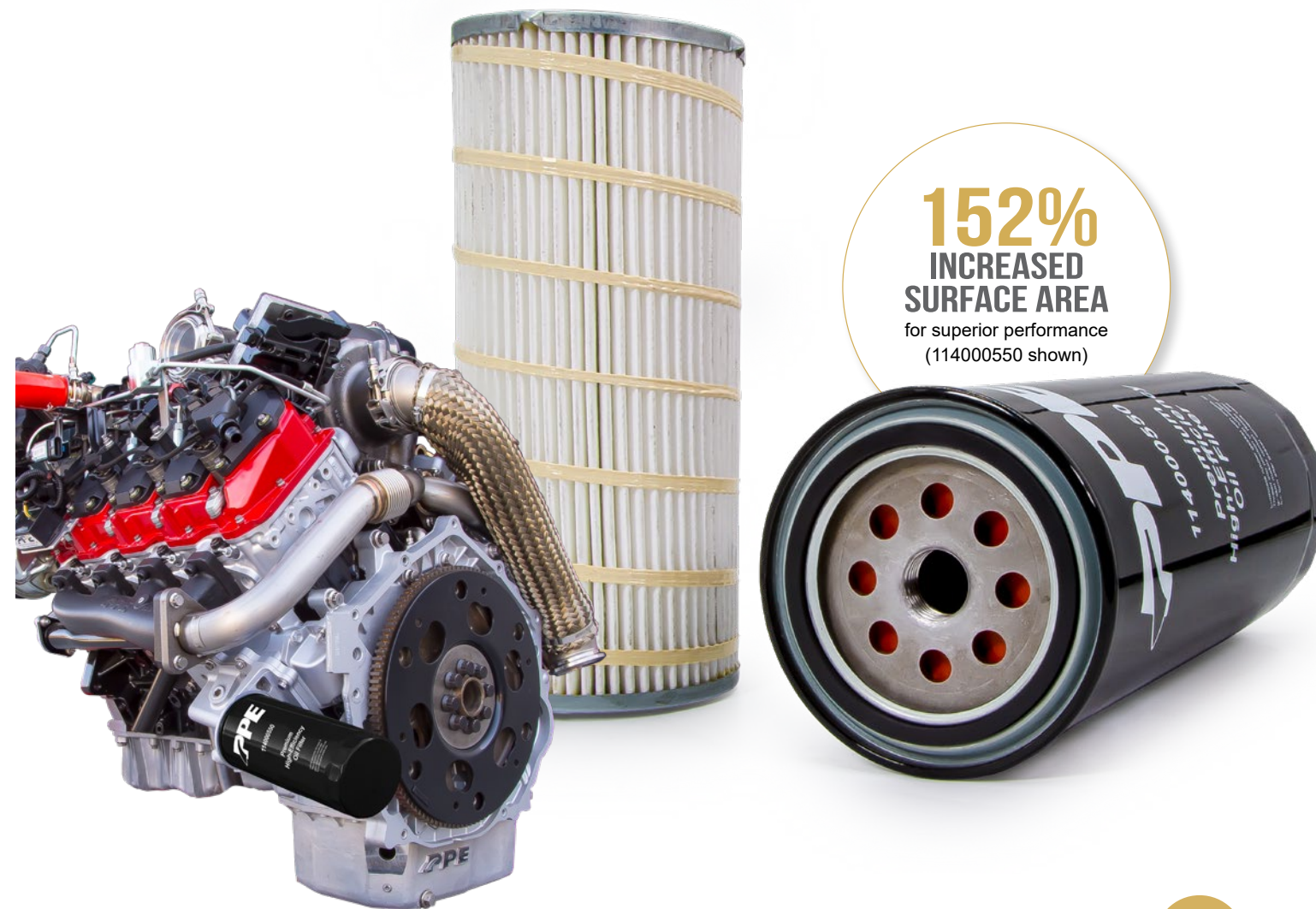
KEEP YOUR RIG RUNNING CLEANER, LONGER.

YOUR NUMBER ONE CHOICE FOR SUPERIOR FILTER PERFORMANCE.

Offering more than double the surface area of a conventional oil filter, the PPE Premium High-Efficiency Oil Filter is just what your engine oil needs to stay cleaner, longer.



114000550 Depicted



152% INCREASED SURFACE AREA
for superior performance (114000550 shown)

PREMIUM HIGH-EFFICIENCY OIL FILTER

Specially engineered, accordion-folded nylon and fiberglass media achieves superior filtration to catch and hold minute dirt and debris down to 5 microns. A typical OEM-quality oil filter removes about 72% of particles in 8 to 10 micron range.

With twice the surface area, twice the filtration and twice the filter life of conventional filters, the PPE Premium High-Efficiency Oil Filter is your number one choice for superior oil filter performance.

Features:

- (114000550) Direct replacement for the stock oil filter - no adapter!
- Accordion-folded nylon and fiberglass media
- 13/16-16 UNF threaded baseplate with larger passages
- Compatible with conventional and synthetic oils

PART NO.	APPLICATION
114000550	2001-2019 GM 6.6L Duramax
114000750*	2020+ GM 6.6L Duramax

*2020 GM L5P requires use of PPE Cooler Pump Relocation Bracket (114002750)

See the difference:

PPE Premium High-Efficiency Oil Filter (114000550 shown)



900 sq. in. of premium filter media

Standard oil filter



375 sq. in. of filter media



CRANKCASE BREATHER FILTER KIT

Engine runaway can be caused by oil vapor that travels through the crankcase breathers and into the intake system. Uncontrolled fueling of the engine is extremely dangerous. Upgrading the crankcase breathers and adding a PPE Filter Kit helps solve this runaway problem and stops normal oil vapor from contaminating the turbo, intercooler, and intake system. Other benefits of properly venting the crankcase are reduced internal engine pressures which will decrease the chance of seal damage and oil misting.

PART NO.	APPLICATION
114025405	2004.5-2005 GM 6.6L Duramax
114025000	2006-2007 GM 6.6L Duramax
114027500	2007.5-2010 GM 6.6L Duramax



Kit shown: 114025000
2006-2007 GM 6.6L Duramax

CRANKCASE BREATHER FILTER CHECK VALVE

Check Valve can be used in conjunction with Crankcase Breather Filter Kit.

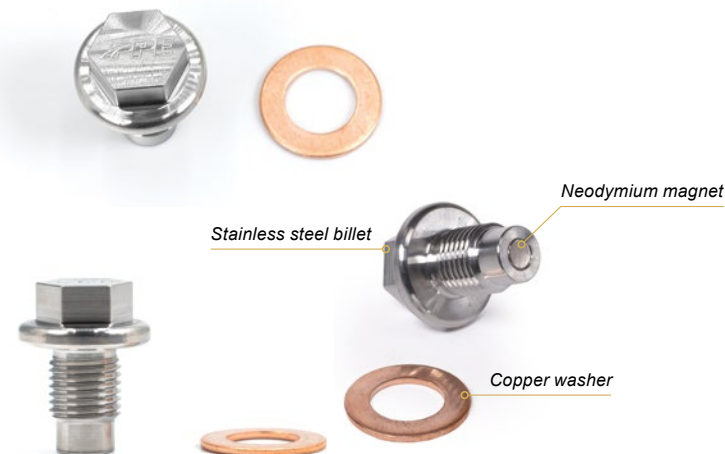
PART NO.	APPLICATION
114025010	2004.5-2010 GM 6.6L Duramax



ENGINE OIL PAN DRAIN PLUG STAINLESS STEEL/MAGNETIC

PPE's Billet Oil Drain Plug comes equipped with a Neodymium magnet to pull harmful ferrous metal contaminants from the oil, helping to extend the life of your engine. Comes complete with a new copper washer. Make sure to have a PPE Billet Oil Drain Plug in hand for your next oil change.

PART NO.	APPLICATION	THREAD SIZE
114052001	2001-2016 GM 6.6L Duramax	M14 x 20 - 1.5
114052201	2017-2020 GM 6.6L Duramax	M12 x 25 - 1.75



BILLET ALUMINUM ENGINE OIL FILLER CAP

Now you can dress up your truck's engine bay and virtually eliminate oil cap blow-off. PPE's billet machined aluminum Oil Filler Cap features an easy grip to assist you when installing and removing between tight engine spaces. It's also been designed with a secure cam-lock fit to match your OEM or aftermarket filler neck and ensure it stays in place.

PART NO.	APPLICATION
114003000	2001-2016 GM 6.6L Duramax
114003017	2017-2020 GM 6.6L Duramax

VITON O-RING

Long-lasting Viton material O-Ring is sized to fit your PPE Billet Aluminum Oil Filler Cap perfectly. Compatible with OEM oil cap.

PART NO.	APPLICATION
114003005	2001-2010 GM 6.6L Duramax

BREATHER REPAIR KIT

Specifically designed for the 2004.5 to 2005 LLY Duramax. This upgrade kit replaces the factory plastic valve cover breather system with CNC machined billet aluminum valve cover adapter fittings and oil compatible 5/8" tubing. Sold as a complete kit.

PART NO.	APPLICATION
114020405	2004.5-2005 GM 6.6L Duramax



TUBING KIT FOR CRANKCASE BREATHER SET

Used in conjunction with PPE crankcase breather repair fittings. Kit includes 5/8" ID hose, clamps, T-fitting and heat shield.

PART NO.	APPLICATION
114028000	2004.5-2010 GM 6.6L Duramax



CRANKCASE BREATHER SET REPAIR FITTINGS

Kit includes 2 CNC machined billet aluminum fittings.

PART NO.	APPLICATION
114020000	2006-2010 GM 6.6L Duramax



OIL CENTRIFUGE FILTRATION KIT

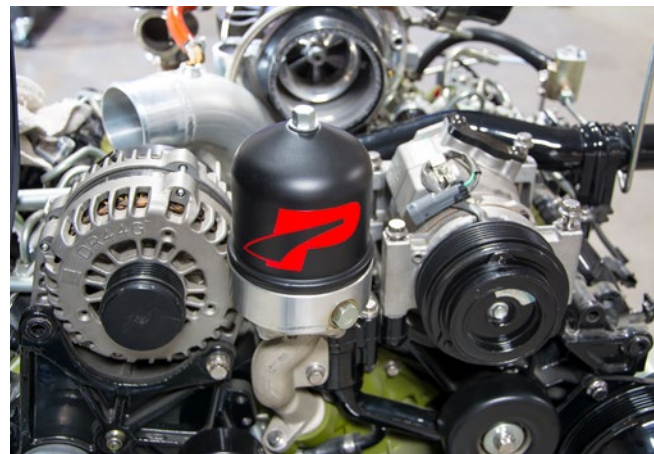
It is extremely crucial to keep the oil as clean as possible from even the smallest dirt particles that circulate through the engine and wear away internal components.

Dirt and impurities cause oil to lose its ability to properly lubricate. By using the Centrifuge you can extend the intervals between each oil change from 3,000 up to 10,000 miles.

Clean oil increases performance and reduces engine wear. The PPE Oil Centrifuge Filtration Kit cleans oil by generating a centrifugal force 2,000 times greater than gravity. Engine oil pressure spins the rotor at a rate of over 6,000 rpm, separating the solid contaminants and heavy metals from the main oil supply. Dirty oil spins outwards to a removable outer bowl which can then be easily scraped clean. The centrifuge will filter particles down to a 1/10th of a micron, compared to the OEM 25-40 micron filter.

Features:

- No filters to buy or replace
- Secondary filtration used in conjunction with factory filter



PART NO.	APPLICATION
114010000	2001-2005 LB7/LLY GM 6.6L Duramax
114010200	2006-2010 LBZ/LMM GM 6.6L Duramax
114010400	Topkick / Kodiak

Replacement gasket, Pedestal to Centrifuge Base (114010012)



Kit shown: 114010000
2001-2005 LB7/LLY GM 6.6L Duramax

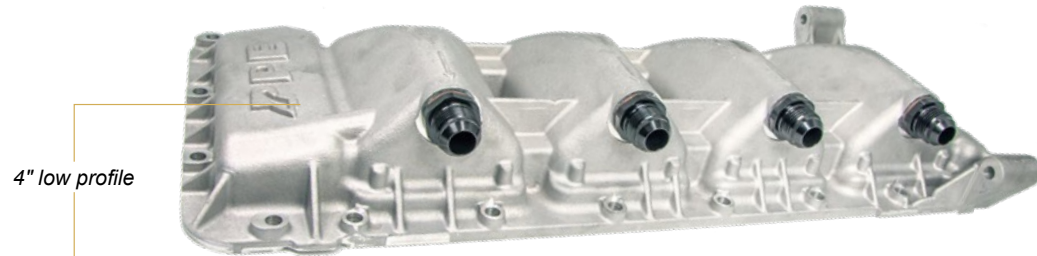
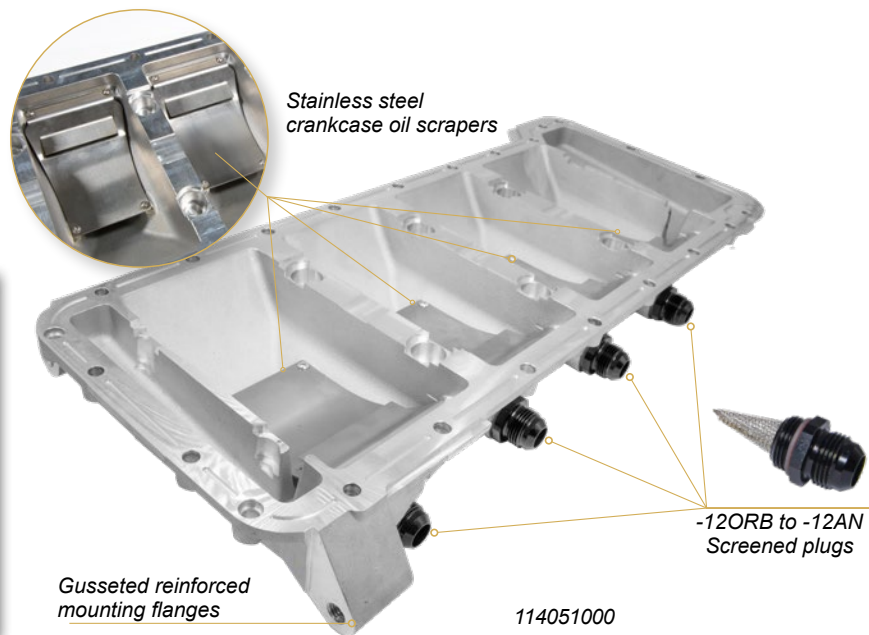


DRY SUMP PAN AND COMPONENTS





CHECK IT OUT ON YOUTUBE



DRY SUMP PAN

In a dry sump, engine oil is stored in a tank outside the engine rather than in the oil pan. There are at least two oil pumps in a dry sump - one pulls oil from the sump and sends it to the tank and the other pump takes oil from the tank and sends it to lubricate the engine. The minimum amount of oil possible remains in the engine.

Dry sumps have advantages over wet sumps. Because a dry sump does not need to have an oil pan big enough to hold the oil under the engine, the main mass of the engine can be placed lower in the vehicle. This helps lower the center of gravity and can also help aerodynamics. The oil capacity of a dry sump can be as big as you want. The tank holding the oil can be placed anywhere on the vehicle.

In a wet sump, turning, braking and acceleration can cause the oil to pool on one side of the engine. This sloshing can dip the crankshaft into the oil as it turns or uncover the pump's pick-up tube. Excess oil on the crankshaft can cut horsepower. Dyno improvements of as much as 15 horsepower by switching to a dry sump oil system.

Features:

- Passenger side kick-out position (-12AN)
- Includes 304 stainless steel Oil Windage Scrapers
- Cast aluminum
- Added rigidity to engine block
- Low profile: 4"



PART NO.	APPLICATION
114051000	2001-2010 GM 6.6L Duramax
114051600	2011-2016 GM 6.6L Duramax
114051700	2017-2020 GM 6.6L Duramax

Additional required components on 71 and 72.
Requires use of PPE Oil Cooler Delete Kit (114001000).

5-STAGE STEEL GEAR OIL PUMP

This five-stage pump is equipped with steel gears for increased reliability, adjustable pressure and will flow the perfect amount of oil for any Duramax engine.

We've utilized AN fittings for all ports which have been proven strong, reliable, and easy-to-use. The anodized finish will keep the pump looking great.

Comes complete with mounting brackets and hardware.

Features:

- Four -12AN scavenging ports to draw oil from the pan
- One -16AN port to tank/reservoir
- One -16AN port to tank/reservoir
- One -16AN pressure port to the engine.

PART NO.	APPLICATION
114051100	GM 6.6L Duramax



PUMP DRIVE KIT

This kit includes everything needed to pull rotational drive power from the crank to power the 5-Stage Steel Gear Oil Pump via high-quality stainless steel and billet aluminum parts.

Features:

- 2 billet anodized aluminum pulleys
- Aluminum damper drive adapter assembly
- Stainless steel hardware
- Heavy-duty belt.

Note: Pump Drive Kit will not mount to a stock damper. Pump Drive Kit requires use of PPE Extreme Damper 114051200 (page 107).

PART NO.	APPLICATION
114051200	GM 6.6L Duramax



OIL LINE KIT

When using the 5-Stage Steel Gear Oil Pump, supply from the pan to the pump is achieved using this hose kit.

Quality -12AN fittings and stainless braided hose lines are durable and made to withstand high-pressures and harsh conditions.

PART NO.	APPLICATION
114051300	GM 6.6L Duramax



INTERNAL OIL COOLER DELETE KIT

Designed for high-performance Duramax engines that require remote oil cooler and filtration solutions. Popular for hot rod, marine and race applications that require larger less restrictive cooler/filter systems. Compact design adds additional clearance for tight engine frames.

Features:

- Machined from billet aluminum, with a hard anodized black finish
- Uses existing factory oil-cooler mounting bolts
- 1/8" NPT port for oil temperature probe
- #12 ORB port, -16AN (1") oil inlet/outlets
- Includes Engine Coolant Bypass Adapter



PART NO.	APPLICATION
114001000	2001-2016 GM 6.6L Duramax

We recommend - 16AN (1") hose for maximum flow. Use with coolant Tube Kit (11401050) and Remote Filter Mount (114002000)

COOLANT TUBE KIT FOR INTERNAL OIL COOLER DELETE

Specifically designed for use in conjunction with the PPE Internal Oil Cooler Delete Kit. This custom fabricated kit uses 304 stainless steel, two PPE T-Bolt Clamps and PPE Silicone Hose to secure a perfect fit. Great for marine applications.

Features:

- 304 Stainless steel tube
- 6mm, 5-ply silicone hose



PART NO.	APPLICATION
114001050	2001-2010 GM 6.6L Duramax

Not compatible with factory oil filter housing

304 STAINLESS STEEL REMOTE FILTER MOUNT

Certain Duramax engine installations, such as with marine applications, often require relocating the oil filter so it can be accessed for basic maintenance. This Remote Filter Mount is designed to work in conjunction with PPE's Internal Oil Cooler Delete Kit.

Made from 304 stainless steel, this robust remote filter mount has a higher flow-rate than the stock filter assembly and is compatible with PPE premium high-efficiency oil filter (114000550) or GM factory OEM HP6 and HP4 Racing Filters. It features 3/4" NPT oil inlets and outlets for massive -16/1" oil lines, threaded ports for oil pressure/oil temp gauge senders. Additional port for oil PSI/oil temp senders, and adjustable mounting bracket.



Custom lines built to order are available separately. Please call for details.

PART NO.	APPLICATION
114002000	Universal

DRIVE YOUR PASSION.

Whether your truck is a daily driver, a show beauty, or a competition beast, the PPE Team knows how important it is to you. That's why we take pride in our products and want to provide you with the best in diesel performance products for your truck.

Our team of specialists are ready to help guide you through your truck build and take it to the next level, and wherever the road takes you.

Give us a call now, and keep chasing your passion.

PPE Customer Service Representatives are available:

Monday - Friday
8:00AM to 5:00PM PST
714. 985. 4825



Truck owner and photo: @robbie_lml



GIVE YOUR STEERING SYSTEM A STRONG BASE.

EXTREME-DUTY FORGED 7/8" DRILLED STEERING ASSEMBLY KIT

Give your steering system a strong base that vastly improves on the factory design. Perfect for those who have added larger wheels and tires, more horsepower, or use their vehicle for drag racing, sled-pulling, or off-roading.

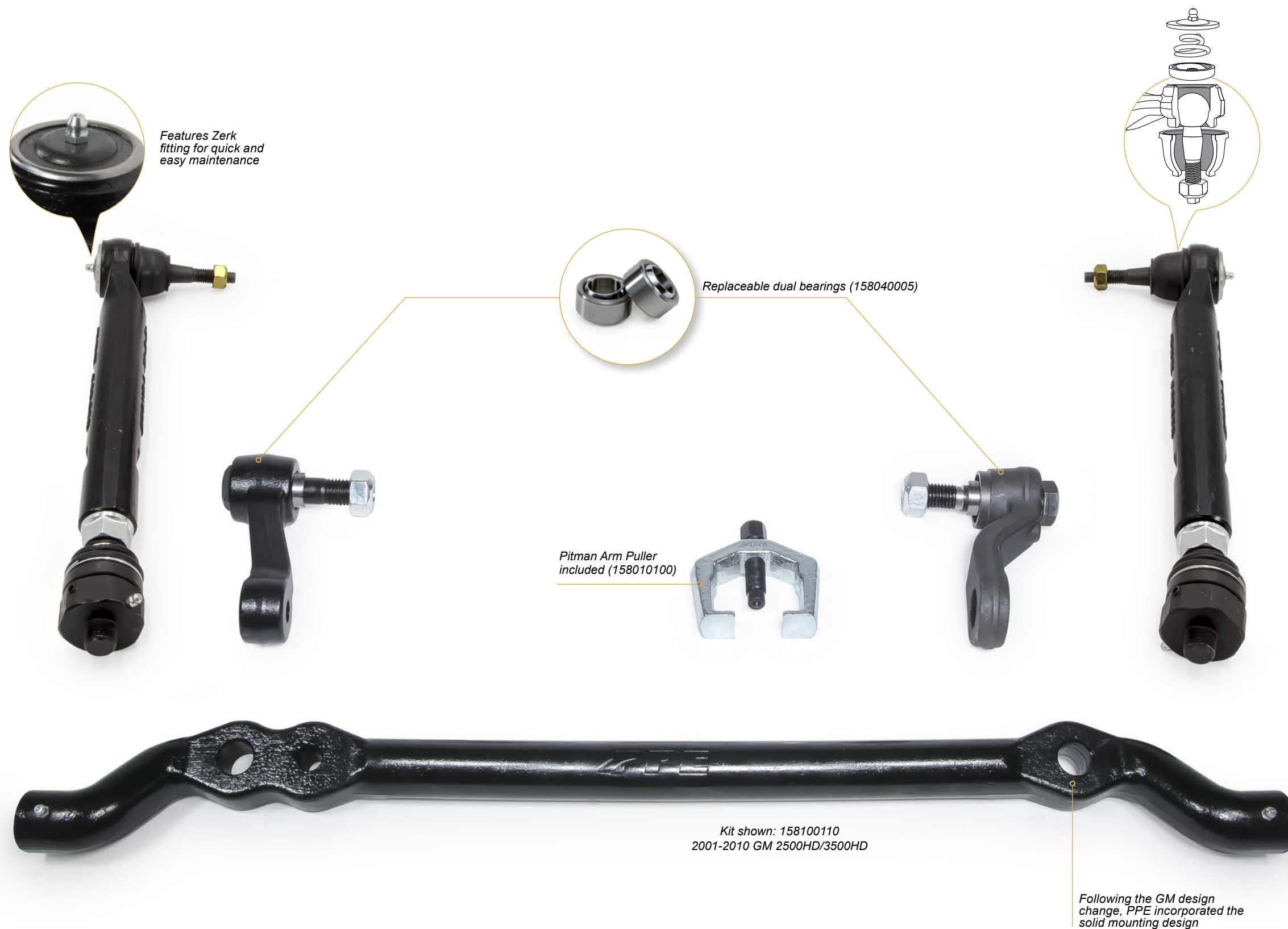
This Extreme-Duty Steering Kit comes complete with everything you need to upgrade your 2001-2010 GM factory 2500HD/3500HD steering components. The OE-Style (dog leg) Center Link is forged steel and sports a massive 1.5" diameter with a 7/8" drill to accommodate the PPE Extreme-Duty Forged Pitman Arm and Extreme-Duty Forged Idler Arm, which both come with replaceable dual bearings. Also included in this extreme duty kit are a pair of Stage3 Forged Tie Rod Assemblies. These tie rod assemblies are the best of the best. Featuring 1.5" wide, forged tie rods, massive 2 1/3" ball joints and a much larger and stronger, adjustable inner ball joint. PPE outer tie rod ends feature a spring-loaded gusher bearing that maintains constant pressure. This kit ensures long-lasting strength up front.

Kit also includes a Pitman Arm Puller.

Features:

- Massive 1.5" diameter OE-Style Center Link
- Forged PPE 7/8" Pitman and Forged PPE 7/8" Idler Arm
- Zerk fittings ensure easy maintenance
- Stage3 Forged Tie Rod Assemblies

PART NO.	APPLICATION
158100110	2001-2010 GM 2500HD/3500HD
158101120	2011-2020 GM 2500HD/3500HD



Features Zerk fitting for quick and easy maintenance

Replaceable dual bearings (158040005)

Pitman Arm Puller included (158010100)

Kit shown: 158100110
2001-2010 GM 2500HD/3500HD

Following the GM design change, PPE incorporated the solid mounting design



EXTREME-DUTY FORGED PITMAN ARM

The PPE Extreme-Duty Pitman Arm features a new forged design to take the abuse of racing, larger wheels and tires, and increased horsepower.

Our Pitman Arm is equipped with replaceable dual bearings and larger 7/8" bolt assembly for increased strength and durability. Intended to work with PPE's Extreme-Duty Idler Arm and PPE 7/8" Drilled Center Link or stock center link drilled to 7/8".

Features:

- Forged steel provides increased strength
- Fits 3-slotted spline power steering boxes
- Compatible with OEM center link with proper modifications

PART NO.	APPLICATION
158050000	2001-2010 2WD or 4WD GM 2500HD/3500HD
158051100	2011-2020 2WD or 4WD GM 2500HD/3500HD

Use with PPE Race Straight or drilled stock center link.
PPE replaceable dual bearings (158040005)



158050000



158051100

EXTREME-DUTY FORGED IDLER ARM

Give your steering system a strong base that vastly improves on the factory design. Perfect for those who have added larger wheels and tires, more horsepower or use their vehicle for racing, sled-pulling, or off-roading. Equipped with a big 7/8" bolt assembly and replaceable dual bearings. Intended to work with PPE's Extreme-Duty Pitman Arm and PPE 7/8" Drilled Center Link or 7/8" drilled stock center link.

Features:

- Forged steel provides increased strength
- 7/8" bolt assembly
- Compatible with OEM center link with proper modifications

PART NO.	APPLICATION
158040300	2001-2010 2WD or 4WD GM 2500HD/3500HD
158041100	2011-2020 2WD or 4WD GM 2500HD/3500HD

Use with PPE Race Straight or drilled stock center link.
PPE replaceable dual bearings (158040005)



158040300



RACE IDLER ARM

The PPE Race Idler Arm gives your steering system a strong base, vastly improving on the factory design. It's perfect for those who have added larger wheels and tires, more horsepower or use their vehicle for racing, sled-pulling, or off-roading.

Features:

- 7/8" bolt size
- Compatible with OEM center link with proper modifications

PART NO.	APPLICATION
158040000	2001-2010 2WD or 4WD GM 2500HD/3500HD

Use with PPE Race Straight or drilled stock center link.

IDLER PIVOT ASSEMBLY FORGED

A failed idler arm pivot assembly can make your steering feel loose and washy. Ultimately, it can contribute to the premature wear of your tires and steering linkage. If your truck is lifted, with larger wheels and tires, this effect can be even more profound.

The PPE Forged Idler Arm Assembly is precision-built to handle the stresses of larger tires, off-road driving, drag racing and towing. Fitted inside the forged steel housing are two tapered high-load roller bearings with rubber seals to protect them from water and debris. The heavy-duty dual roller bearings are pre-greased. If you spend a lot of time with your axles under water, we recommend a periodic re-grease using the built-in zerk fitting. For normal use (including off road, high mileage, heavy-duty), the PPE Forged PPE Idler Arm Assembly needs no maintenance.

Features:

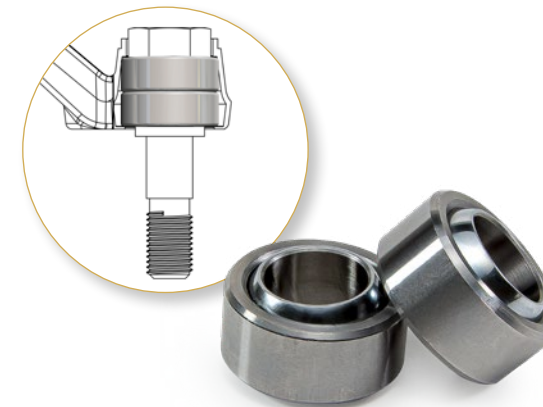
- Forged steel housing
- Heavy-duty dual roller bearings
- Optional weld-on gusset plate included
- Factory taper
- Limited lifetime warranty

PART NO.	APPLICATION
158040100	2001-2010 GM 2500HD/3500HD
158040111	2011-2020 GM 2500HD/3500HD



158040111

158040100



REPLACEMENT BEARINGS

Bearings sold individually as needed for replacement. PPE Extreme-Duty Forged Pitman Arm (158050000) and Extreme Duty Forged Idler Arm (158040300) utilize two bearings each. Order replacement quantity as needed.

PART NO.	APPLICATION
158040005	2001-2010 2WD or 4WD GM 2500HD/3500HD

Use with PPE Extreme-Duty Forger Pitman Arm (158050000, 158051100, 158051700 and PPE Extreme-Duty Forged Idler Arm (158040300, 158041100, 158041700).





158004000

OE-STYLE HD FORGED STOCK TAPER CENTER LINK

Our PPE forged, OE-style "dog leg" center link is the solution for ultimate strength and rigidity in your steering. This massive 1.5" diameter center link accepts the stock-taper pitman and idler arms so it's a direct bolt-on replacement. Zerk fittings ensure easy regular maintenance.

PART NO.	APPLICATION
158004000	2001-2010 GM 2500HD/3500HD
158004011	2011+ GM 2500HD/3500HD



158005000

OE-STYLE HD FORGED 7/8" STRAIGHT TAPER CENTER LINK

This massive 1.5" diameter "dog leg" center link is specially designed to fit the PPE Extreme-Duty Forged 7/8" Pitman and Idler Arm, providing the ultimate strength and rigidity in your steering. Zerk fittings ensure easy regular maintenance.

PART NO.	APPLICATION
158005000	2001-2010 GM 2500HD/3500HD
158005011	2011+ GM 2500HD/3500HD



158010200

RACE STOCK TAPER STRAIGHT CENTER LINK

Made from solid, precision machined 1.5" 304 stainless steel, PPE's Straight Center Link adds much needed rigidity and improves input from the steering wheel to the tires. Its straight design eliminates center link related toe-in and toe-out problems. This kit comes with a Pitman arm puller, making removing the stock center link easy.

PART NO.	FINISH	APPLICATION
158010000	Raw	2001-2010 GM Full Size Trucks, SUVs and H2 Hummers
158010200	Polished	2001-2010 GM Full Size Trucks, SUVs and H2 Hummers

Tie Rod Sleeves and Center Link with ends available as a kit. Not compatible with PPE Race Pitman. Not recommended for street use because it reduces turning radius.



158016000

RACE 7/8" STRAIGHT TAPER STRAIGHT CENTER LINK

Featuring a big 7/8" bolt (stock is 9/16"), this precision-machined 304 stainless steel Center Link is designed to work with PPE's Forged Pitman Arm and Forged or Race Idler Arm. The extra strength straight design eliminates the toe-in and toe-out problems that occur when racing or pulling. It adds rigidity and control you can feel from the steering wheel to the tires.

PART NO.	FINISH	APPLICATION
158016000	Raw	2001-2010 GM Full Size Trucks, SUVs and H2 Hummers
158016200	Polished	2001-2010 GM Full Size Trucks, SUVs and H2 Hummers

Use with PPE Race Pitman and Idle Arms. Not recommended for street use because it reduces turning radius.



POLISHED TIE ROD SLEEVES

Add strength to your factory tie rods. Simply install over the outer tie rod end by threading on these sleeves. Can be installed in minutes in your driveway.

Features:

- 304 stainless steel
- Replaces OEM lock nut
- Tie Rod Sleeves fit OEM and NAPA Tie Rods

PART NO.	APPLICATION
158030200	2001-2010 GM, SUVs and H1 Hummer
158030211	2011-Current GM



STAGE 1

TIE ROD ASSEMBLIES WITH SLEEVES

This kit includes a set of brand new GM tie rods equipped with a set of PPE Tie Rod Sleeves. PPE's Tie Rod Sleeves are made from solid, precision-machined 304 stainless steel that encase the majority of the threaded area between the steering rack and the tie rod. This area is where the factory tie rod is at its weakest, but with the PPE sleeve installed, the strength is dramatically improved.

PART NO.	APPLICATION
158030500	2001-2010 GM 2500HD/3500HD Trucks



STAGE 2

TIE ROD ASSEMBLIES

Larger and stronger in every way, PPE Stage2 Tie Rod Assemblies are the perfect upgrade to worn out factory tie rods, for those who beat on their vehicle regularly, or just want peace of mind in knowing they have incredibly strong steering components.

When compared to factory components:

- 48% larger toe adjusting shaft
- 14% larger outer ball joint
- 40% larger tie rod body
- 28% larger inner ball joint

PART NO.	APPLICATION
158031000	2001-2010 GM 2500HD/3500HD Trucks

Due to PPE's larger heavy duty inner joint assembly, longer sway bar end links may be necessary for stock or lifted vehicles to avoid any contact with the sway bar while turning.



The 2011-2016 version features a Zerk fitting for quick and easy maintenance

STAGE 3

FORGED TIE ROD ASSEMBLIES

These tie rods are overkill for some, but when it comes to steering components, failure is not an option. These tie rod assemblies are the best of the best. Featuring 1.5" wide forged tie rod, massive 2 1/3" ball joints and a much larger and stronger, adjustable inner ball joint. Outer tie rod end contains a spring-loaded gusher bearing that maintains constant pressure.

When compared to factory components:

- 30% larger toe adjusting shaft
- 53% larger tie rod body
- 35% larger outer ball joint
- 28% larger, adjustable inner ball joint

PART NO.	APPLICATION
158031500	2001-2010 GM 2500HD/3500HD Trucks
158031511	2011+ GM 2500HD/3500HD Trucks

INNER AND OUTER BOOT REPLACEMENT KIT FOR PPE STAGE3 TIE RODS

Replace your damaged PPE Stage3 Tie Rod dust boots without buying new tie rods. Constructed of high-quality rubber replacements to extend the life of your Stage3's. The kit includes redesigned inner dust boots that "float" and eliminate the compression ring. The outer boots include tight fitting compression rings for a tight seal.

PART NO.	APPLICATION
158031522	2001+ GM 2500HD/3500HD Trucks

NOTICE: PPE Stage3 Tie Rods are engineered to fit GM stock steering components. Some aftermarket steering manufacturers have changed the placement of the tie rod mounting perch on the front spindle, which then requires a shorter tie rod. The Stage3 Tie Rod outers are fully-threaded internally, and may be trimmed to accommodate the relocated aftermarket perch location. An experienced installer should measure to determine the appropriate trim length.

See the difference:

Significant differences are obvious when you compare stock to the PPE Stage 3 Forged Tie Rods

Stock tie rod assembly

PPE Stage 3 Tie Rod Assembly





EXPLORE THIS SECTION

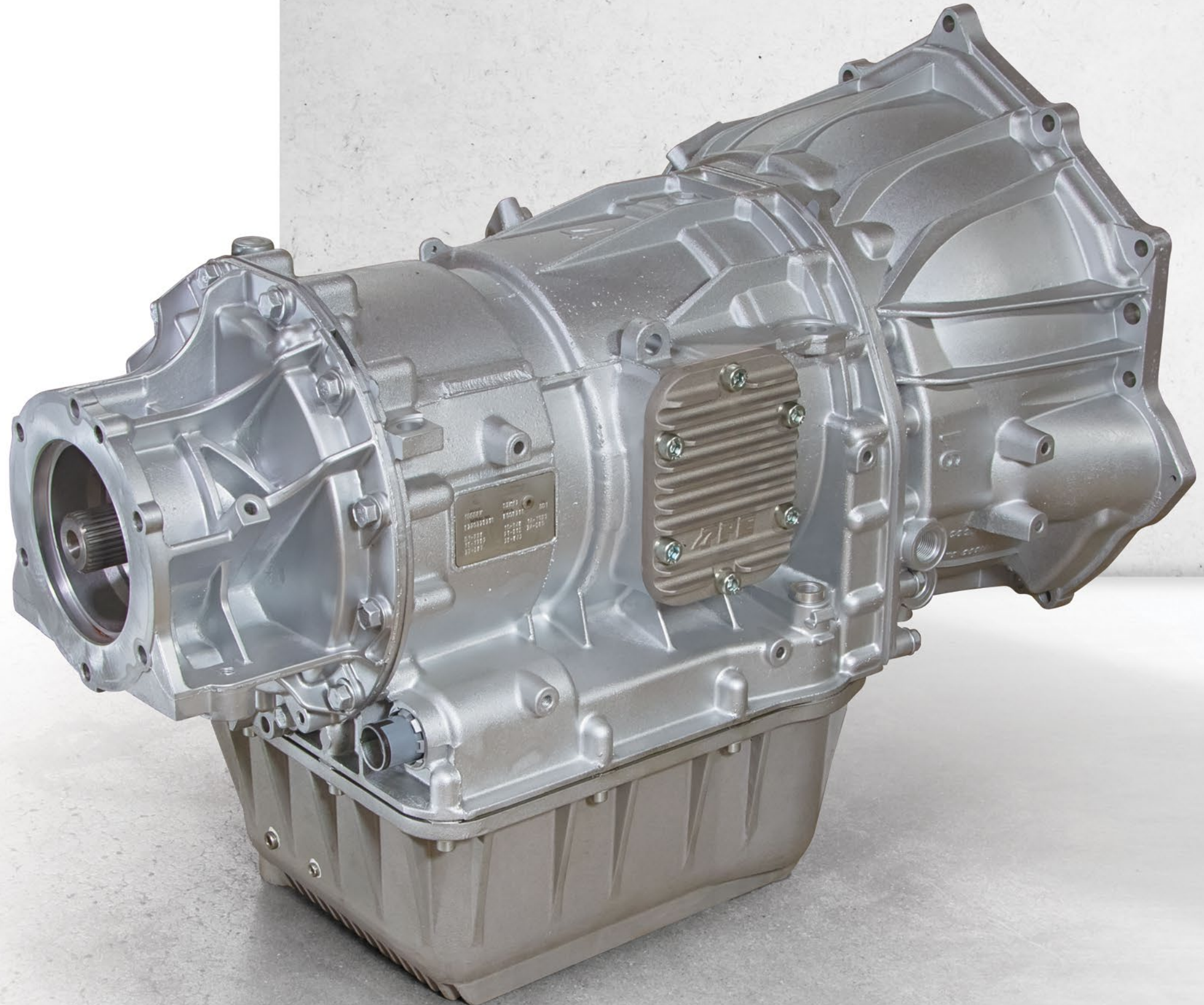
- 84 - 85 COMPLETE TRANSMISSIONS
- 86 - 87 TRANSMISSION UPGRADE KITS
- 88 CLUTCH PACKS
- 91 TORQUE CONVERTERS
- 92 - 93 UPGRADE ACCESSORIES
- 94 - 95 TRANSMISSION PANS
- 96 SPIN-ON OIL FILTER
- 97 BAR AND PLATE COOLERS
- 98 TRANSFER CASE BRACE

BUILD & PLAY.

READY-TO-INSTALL COMPLETE ALLISON TRANSMISSIONS

Let us build your complete ready-to-install transmission. PPE experts with more than 35 years of experience, upgrade the Allison transmissions with the latest performance and highest-quality parts to insure a transmission built to suit your needs. Suitable for daily use performance, or race track.

Fully customizable. There are many upgrades to consider. Please call and ask to speak with an advisor.



PART NO.	PART NO.	PART NO.	APPLICATION	CONVERTER
128134200	128135200	128136200	2001-2002	w/o TC
128134201	128135201	128136201	2003-2004	w/o TC
128134202	128135202	128136202	2004.5-2005	w/o TC
128134203	128135203	128136203	2006-2007	w/o TC
128134204	128135204	128136204	2007.5-2010	w/o TC
128134205	128135205	128136205	2011-2016	w/o TC
128134300	128135300	128136300	2001-2002	w/ TC - BCBS
128134301	128135301	128136301	2003-2004	w/ TC - BCBS
128134302	128135302	128136302	2004.5-2005	w/ TC - BCBS
128134303	128135303	128136303	2006-2007	w/ TC - BCBS
128134304	128135304	128136304	2007.5-2010	w/ TC - BCBS
128134305	128135305	128136305	2011-2016	w/ TC - BCBS

BCBS = Billet Cover Billet Stator





TRANSMISSION UPGRADE KIT

PPE's Stage4 Transmission Upgrade Kit is our entry-level kit that's perfect for daily driven use or even drag racing, sled pulling or towing. This kit works extremely well for a stock truck but was engineered to handle a Duramax engine that has been equipped with multiple high-performance modifications, such as tuning, oversize injectors, and/or small nitrous kits.

Kit Includes:

- Triple clutch converter
- C1 - (14) 1-sided spline frictions (7 internal and 7 external), (1) bottom apply plate
- C2 - (8) friction plates, (8) steel separator plates, (1) bottom apply plate
- C3 - (5) friction plates, (4) steel separator plates
- C4 - (6) friction plates, (5) steel separator plates
- Valve body recalibration kit, boost valve, pump shim and gaskets

PART NO.	APPLICATION	CONVERTER
128034201	2001-2004	w/o TC
128034301	2001-2004	w/ TC - BCBS
128034202	2004.5-2005	w/o TC
128034302	2004.5-2005	w/ TC - BCBS
128034203	2006-2010	w/o TC
128034303	2006-2010	w/ TC - BCBS

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-18

Note: 2006-2010 kits do not include springs.



TRANSMISSION UPGRADE KIT

Built to handle sled pulling, drag racing, towing and everyday driving, the PPE Stage5 Transmission Kit is one of the strongest transmission upgrade kits PPE offers. Thanks to the triple clutch converter, valve body recalibration kit (recalibration kit does not change shift points, only increases clutch holding power), converter flow valve and upgraded C1, C2, C3 and C4 clutches and Kolene steels.

Kit Includes:

- Billet triple clutch converter: "BCBS" Billet Cover Billet Stator (optional)
- Valve body recalibration kit, boost valve, pump shim, and gaskets
- C1 - (16) 1-sided spline friction plates (8 internal and 8 external), (1) bottom apply plate, (1) top pressure plate
- C2 - (7) friction plates, (7) steel separator plates, (1) bottom apply plate for increased rigidity
- C3 - (7) friction plates, (6) steel separator plates, (1) apply plate, (1) top pressure plate, (1) P1 ring gear thrust element spacer, (1) modified apply piston
- C4 - (6) friction plates, (5) steel separator plates, (1) modified apply piston, (1) apply plate

PART NO.	APPLICATION	CONVERTER
128035201	2001-2004	w/o TC
128035301	2001-2004	w/ TC - BCBS
128035202	2004.5-2005	w/o TC
128035302	2004.5-2005	w/ TC - BCBS
128035203	2006-2010	w/o TC
128035303	2006-2010	w/ TC - BCBS

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-18



TRANSMISSION UPGRADE KIT

Built with top-level performance and heavy-duty use in mind, PPE's Stage6 will handle whatever you throw at it.

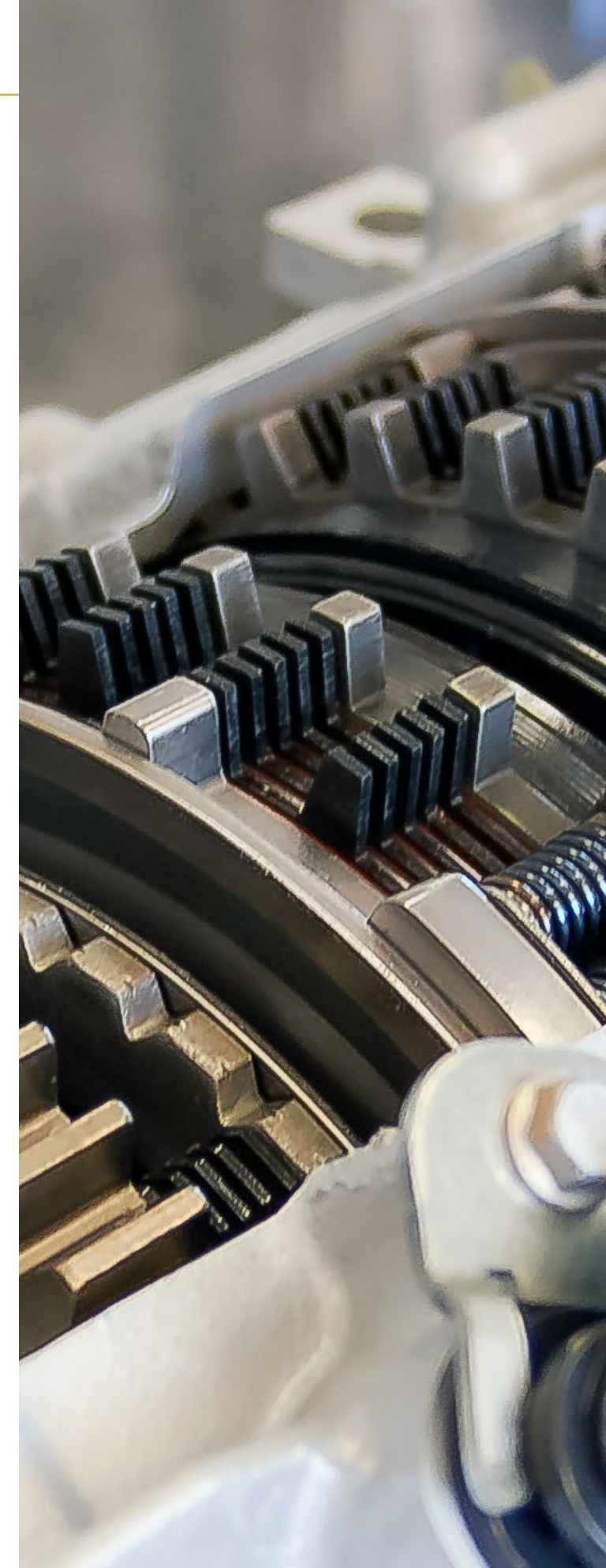
The Stage6 Transmission Kit is the strongest transmission upgrade kit PPE offers. Thanks to the triple clutch converter, valve body recalibration kit (recalibration kit does not change shift points, only increases clutch holding power), converter flow valve, upgraded C1, C2, C3 and C4 clutches and Kolene steels.

Kit Includes:

- Billet triple clutch converter and billet cover (optional billet stator)
- Valve body recalibration kit, boost valve, pump shim, and gaskets
- C1 - (8) internal spline plates, (8) external spline plates, (1) 0.0375 plate
- C2 - (7) friction plates, (7) steel plates, (1) bottom apply plate
- C3 - (7) friction plates, (6) steel plates, (1) apply plate, (1) top plate, (1) thrust plate, (1) apply piston
- C4 - (6) friction plates, (5) steel separator plates, (1) apply plate, (1) apply piston

PART NO.	APPLICATION	CONVERTER
128036201	2001-2004	w/o TC
128036301	2001-2004	w/ TC - BCBS
128036202	2004.5-2005	w/o TC
128036302	2004.5-2005	w/ TC - BCBS
128036203	2006-2010	w/o TC
128036303	2006-2010	w/ TC - BCBS

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-18



Note: Core charge applies, reimbursed upon return of good core components to PPE. Contact us to add upgraded billet internals input/output shafts.

Kits vary by quantity, thickness and material based on your specific transmission needs. Call to discuss your transmission project to ensure you get the most from your build.





STAGE 4 CLUTCH PACKS

2001-2010 GM Allison 1000 and 2000 Series

PART NO.	DESCRIPTION
128134101	C1 Clutch Pack
128134102	C2 Clutch Pack
128134103	C3 Clutch Pack
128134104	C4 Clutch Pack
128135105	C5 Upgrade Clutch Pack

Note: Core charge applies, reimbursed upon return of good core components to PPE. PPE product finish will vary.



STAGE 5 CLUTCH PACKS

2001-2010 GM Allison 1000 and 2000 Series

PART NO.	DESCRIPTION
128135101	C1 Clutch Pack (\$50 core charge applies)
128135102	C2 Clutch Pack
128135103	C3 Clutch Pack (\$100 core charge applies)
128135104	C4 Clutch Pack
128135105	C5 Upgrade Clutch Pack

Note: Core charge applies, reimbursed upon return of good core components to PPE. PPE product finish will vary.



STAGE 6 CLUTCH PACKS

2001-2010 GM Allison 1000 and 2000 Series

PART NO.	DESCRIPTION
128035550	C1 G3 Clutch Pack (\$50 core charge applies)
128035560	C2 G3 Clutch Pack
128035570	C3 G3 Clutch Pack (\$100 core charge applies)
128035580	C4 G3 Clutch Pack
128035590	C5 G3 Upgrade Clutch Pack

Note: Core charge applies, reimbursed upon return of good core components to PPE. PPE product finish will vary.

INNOVATIONS IN PERFORMANCE.

We engineer and build race-winning parts to help achieve greatness on the strip - and 50 State E.O.-legal upgrades for your daily commute. From the intercooler, all the way back to the exhaust pipe, PPE offers hundreds of performance enhancements to help trucks run faster, stronger, more-efficient.

YOU SET YOUR GOAL, WE'LL SUPPORT YOUR EFFORT.





“RACE” BILLET STATOR TORQUE CONVERTER

PPE’s Billet Stator Torque Converter’s offer the best-of-the-best in power holding capabilities. Designed for racers and pullers who brake boost their vehicles on a regular basis.

Increased stall is needed in applications where a single larger turbo or multiple turbos have been installed, and more RPM is required to spool the turbo while braking (brake boosting).

These torque converters have all the features of our Billet Triple Clutch Converters and also feature a stronger more durable billet stator. This billet stator allows for better power transfer to the rear wheels when the torque converter is unlocked. The heavy-duty billet cover and three lock-up surfaces give you unbeatable lock-up performance. The PPE Triple Clutch Torque Converter provides 130 square inches of clutch surface contact area, compared to just 49 square inches in the stock unit (3X stronger).

For those who sled pull or race, this billet stator equipped torque converter is a must-have upgrade. Brake boosting at the starting line or sled pulling with the torque converter unlocked WILL damage a non-billet stator equipped torque converter. Our “Race” series converter should be used in Racing/Pulling applications that require more “Stall” RPM than our standard converter.

Features:

- One-piece billet cover
- CNC billet machined stator with custom stall speeds available upon request (“Race” converters only)
- Heat-treated 4140 alloy turbine
- Heat-treated 4140 alloy impeller hub
- 5 year, unlimited mileage warranty



GM Diesel Trucks

PART NO.	DESCRIPTION
128010305	X-1800-2100 RPM Stall Speed
128010310	G-1800-1900 RPM Stall Speed
128010320	BF-1900-2200 RPM Factory Stall Speed
128010322	E-1800-2200 RPM Stall Speed
128010324	R-2000-2200 RPM Stall Speed
128010326	K-2500-2700 RPM Stall Speed
128010328	J-2700-3000 RPM Stall Speed
128010330	AR-3000 + RPM Stall Speed

Note: Stall speeds are approximate and will vary depending on vehicle set-up.

Note: Core charge applies, reimbursed upon return of good core components to PPE

A “Race” converter is used in applications that would require brake stalling for more than 5 seconds. Please contact us to discuss whether a race converter is required for your application.



HEAVY-DUTY PTO SIDE PLATE COVERS

Made from cast aluminum, these covers add strength to center of the transmission case eliminating trans oil seepage at the mating surface. Cooling fins double the surface area (60.74 sq. in.) when compared to stock (30.62 sq. in.), which increases heat dissipation from the transmission fluid.

Features:

- Design keeps gasket evenly torqued so it doesn't slip
- Increases transmission case rigidity
- Helps reduce operating temperatures

PART NO.	QTY	APPLICATION
128060000	2 pc. Raw	2001-2016 Allison 1000 Transmission
128060010	2 pc. Brushed	2001-2016 Allison 1000 Transmission
128060020	2 pc. Black	2001-2016 Allison 1000 Transmission
128060100	1 pc. Raw	2017-2020 Allison 1000 Transmission
128060110	1 pc. Brushed	2017-2019 Allison 1000 Transmission
128060120	1 pc. Black	2017-2019 Allison 1000 Transmission

Note: The standard PTO size is compatible with many agricultural and commercial uses.



BILLET INPUT SHAFT

The transmission input shaft is tasked with transferring the horsepower from the torque converter to the transmission. Due to its placement, the part needs to be tough because it is subjected to a huge amount of twisting torque.

The PPE Billet Input Shaft has been specially designed to withstand higher horsepower and torque levels (over 800 RWHP) that come with high-performance engines or the added stress that comes with towing or racing. This shaft is highly recommended when installing our Stage4, Stage5 and Stage6 Transmission Kits.

PART NO.	APPLICATION
128020000	2001-2016 Allison 1000 5 and 6 speed



BILLET OUTPUT SHAFT

High horsepower levels and heavy-duty use stress transmission parts past what they were originally designed to handle. The Allison's output shaft is a common failure point so PPE offers this Billet Output Shaft for high-performance transmissions. The PPE shaft has been specially designed to withstand the higher horsepower (over 800 RWHP) and torque levels that come with high-performance engines or the added stress from towing or racing. This shaft is highly recommended when installing our Stage4, Stage5 and Stage6 Transmission Kits.

PART NO.	APPLICATION
128021000	2001-2010 Allison 1000 4x4 5 and 6 speed
128021011	2011-2016 Allison 1000 4x4 5 and 6 speed



VALVE BODY RECALIBRATION KIT

Even the venerable Allison transmission can use some well-placed improvements; that is why PPE has designed the Allison Valve Body Recalibration Kit (VBR kit).

The VBR kit is perfect for those individual who really punish their vehicles in activities such as towing, racing or extreme work. This kit corrects and reduces the Allison from going into neutral under a load. It also prevents 3rd to 4th gear slips, C2 or C3 clutch burning, and the tendency of sticking in one gear.

This kit allows customers to experience short, crisp and smooth up and down shifts.

PART NO.	APPLICATION
128042000*	2001-2005 LB7/LLY Allison
128043000	2006-2010 LBZ/LMM Allison

**Transmission must be removed from vehicle*

PRESSURE CALIBRATION KITS

PART NO.	APPLICATION
128041000	2001-2010 Allison 1000 and 2000
128041011	2011-2016 450-800HP Allison 1000 and 2000
128041012	2011-2016 800HP+ Allison 1000 and 2000



TRANSMISSION FLUID THERMAL BYPASS VALVE

Add another measure of protection and increase fluid flow to transmission cooler. Increase cooling capacity with this easy-to-install billet aluminum PPE Transmission Fluid Thermal Bypass Valve for the GM L5P Duramax Diesel.

The OEM part has restrictive internal passages. When the OEM valve fails in the open position, transmission fluid doesn't reach your cooler. This can be caused by mechanical failure or debris. The result of stock valve failure can cause the transmission to dangerously overheat. Without properly cooled transmission fluid, the demands of towing and rigorous stop-and-go driving conditions shorten the life of transmission components.

The PPE Bypass eliminates the extremely restrictive mechanical factory valve which maximizes fluid flow from the transmission cooler. For further protection, a Neodymium magnet equipped service plug has been added. The removable plug traps ferrous debris and can be accessed to remove particles from the system. The factory bypass valve does not have this feature.

PART NO.	APPLICATION
125065000	2017-2019 GM 6.6L Duramax L5P





HEAVY-DUTY TRANSMISSION PANS

Replace the stock, stamped steel pan with one that will help keep your transmission cool and protected.

Cast from high-strength aluminum alloy for strength and optimal heat dissipation, external fins, and side ribbing, all PPE Transmission Pans are much stronger than the stock units.

Available in three finishes



Raw finish Brushed finish Black finish

PPE Transmission Pans are equipped with 1/8" and 1/4" NPT threaded ports for easy installation of gauge sensors.

Also equipped with PPE's 17mm hex head Neodymium Magnetic Drain Plug.



3/4" External cooling fins

Robust side gussets

STANDARD PROFILE ALUMINUM TRANSMISSION PAN

Cast from high-grade aluminum alloy, the PPE Standard Profile Aluminum Transmission Pan is perfect for hot rod or marine applications. Holding stock fluid capacity, it is only 5" deep making this pan perfect for those who like their rides lower to the ground and still running cool. Thanks to its thick cast construction with 3/4" external fins and the additional gussets, the fluid will run much cooler than the stock pan.

Features:

- 3/4" external cooling fins reduce oil temps
- Robust side gussets provide additional strength
- Retains use of high-quality original Allison pan gasket
- Limited lifetime warranty

2001-Current GM / Chevy Allison Transmission

PART NO.	FINISH
128052000	Raw
128052010	Brushed
128052020	Black

Extra deep. Holds an extra 4 qts. of fluid



Neodymium magnet equipped drain plug

Interior filter lock keeps filter secure in place. No need for additional aftermarket filter lock device.



HEAVY-DUTY DEEP ALUMINUM TRANSMISSION PAN

Simply stated, more is always better when it comes to transmission fluid. Higher volumes of fluid take longer to heat up allowing for more stable transmission temperatures which help to extend transmission life. Also included is a PPE high-powered Neodymium magnet equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

Features:

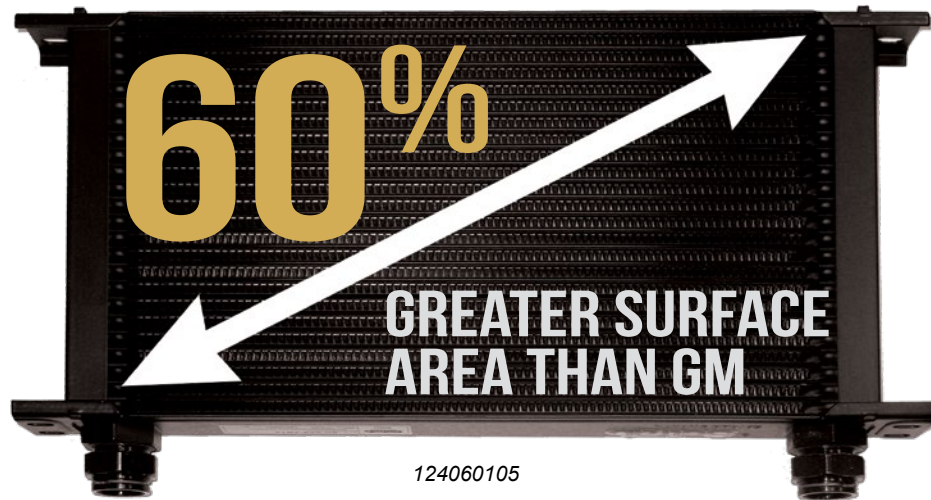
- Tall 1" internal heat sinks and 3/4" external cooling fins reduce operating temperatures up to 40 degrees
- Hold an extra 4 quarts of fluid
- Robust side gussets provide added strength
- Large 1" drain port
- Compatible with OEM gasket
- Limited lifetime warranty

2001-Current GM / Chevy Allison Transmission

PART NO.	FINISH
128051000	Raw
128051010	Brushed
128051020	Black



INNOVATIONS IN TRANSMISSION COOLING.



NOTE:
2001-2005
VERIFY YOUR CLIP COLORS
BEFORE ORDERING

(124060000) 2001-2003 Cooler
- connectors with Orange Clips



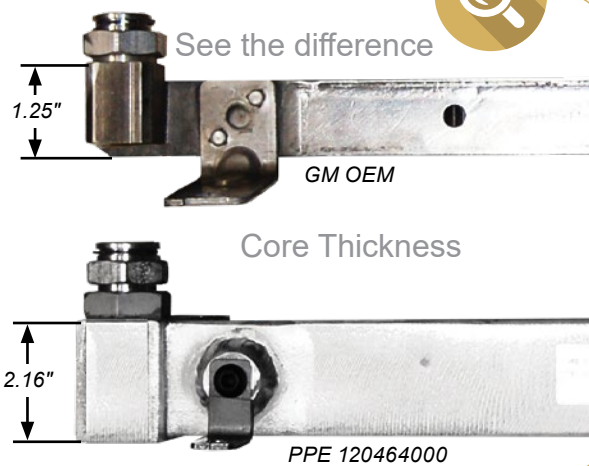
(124060300) 2003-2005 Cooler
- connectors with Purple Clips



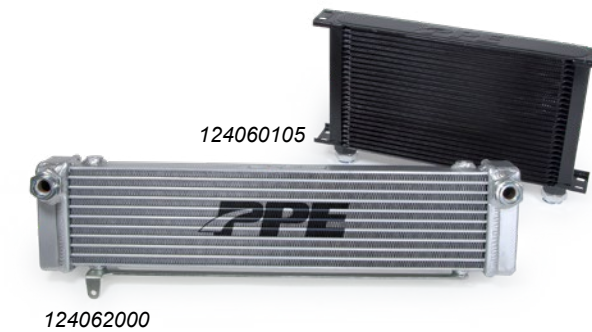
SIMPLE BOLT-ON INSTALLATION



FACTORY FITMENT



Simple, direct fit bolt-on installation. Highly recommended for Stage4, Stage5 and Stage6 performance transmissions.



PPE's Heavy-Duty Transfer Case Pump Housing Upgrade Kit contains a gasket and a machined aluminum pump cover. The main benefit is a more secure method of supporting the pump and distributing the load better.

HEAVY-DUTY PERFORMANCE TRANSMISSION COOLERS

Excessive heat is the #1 killer of transmissions. For individuals who tow, race or simply run their diesel hard, proper cooling of your transmission fluid is one of the most important things that you can do to increase the life of your transmission.

When the mainline pressure is increased with upgrades such as a high-performance transmission kit, your transmission generates additional heat. A PPE Performance Transmission Cooler is critical in such situations. PPE's Performance Transmission Cooler is a direct bolt-on replacement part that lowers the fluid temperatures up to an additional 20 to 30 degrees over the stock unit.

Features:

- Increased surface area provides 60% more heat rejection
- Factory-fit
- Limited lifetime warranty

Transmission Coolers - Bar and Plate

PART NO.	APPLICATION
124062106	2006-2010 Allison 1000/2000
124063000	2011-2014 Allison 1000/2000
124064000	2015-2016 Allison 1000/2000
124065000	2017-2019 Allison 1000/2000

Performance Transmission Coolers

PART NO.	APPLICATION
124060000	2001-2003 Allison 1000/2000 Duramax/Gas Engines
124060105	2001-2005 Allison 1000/2000
124060300	2003-2005 Allison 1000/2000 Duramax/Gas Engines
124062000	2006-2010 Allison 1000/2000

HEAVY-DUTY TRANSFER CASE PUMP HOUSING UPGRADE KIT (PUMP RUB KIT) 129001000

Pump rub occurs when the four positioning tabs holding the pump in place, wear over time. This causes the oil pump to come in contact with the housing itself. The result is a hole in the cover, causing fluid to leak and the possibility of heavily damaging the transfer case. The longer tabs of the PPE Billet Aluminum Housing solve this problem.

129001000 Applications:

YEAR	MODEL
2001-2007	GM 6.6L Duramax
1998-2007	Silverado/Sierra 1500/1500HD, 2500/2500HD, 3500/3500HD NP246, NP261HD, NP263HD, NP261XHD, NP263XHD
1998-2003	Blazer/Jimmy NP236
1998-2007	Suburban/Yukon 1500, 2500, NP246
1999-2005	Astro/Safari NP136W
1999-2007	Escalade NP246, NP149
2002-2007	Avalanche 1500, 200, NP246, NP261, NP263, NP263HD



**PREMIUM HIGH-EFFICIENCY
SPIN-ON TRANSMISSION FLUID FILTER**

PPE recognized the need for better filtration for the hard-working Allison 1000 and 2000 series transmissions, so a superior filter was developed which addresses limitations of the standard "shorty filter".

Inside the PPE Double-Deep Spin-On Filter is 2.72 times more filter media surface area. This increased surface area allows improved fluid flow and filtering. The PPE Double-Deep Filter actually traps particles down to 15 microns. That's half the size of what the standard spin-on filter catches.

Features:

- Filters 50% smaller particles
- 2.72 times the filter media surface area of standard spin-on filters
- 15 micron filtration
- Promotes smoother, more responsive shifts



PART NO.	APPLICATION
128059150	2001-2019 Allison 1000/2000 Series Transmissions

See the difference

PPE Double-Deep Spin-on Filter



200 sq. in. of pleated filter media

Standard Spin-on Filter

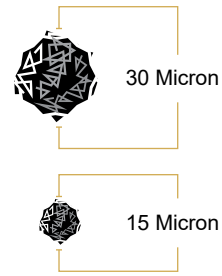


73 sq. in. of pleated filter media

**FILTERS
50%
SMALLER
PARTICLES**

than standard filters

Fact: A human hair is about 75 microns across



NEODYMIUM MAGNETIC FILL/DRAIN PLUG

To help keep fluid cleaner, PPE includes our exclusive fill/drain plug featuring a high-powered Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage.

PART NO.	FINISH
128051001	Raw stainless steel
128051002	O-Ring for PPE Fill/Drain Plug

Neodymium magnet



PPE Pans and Differential Covers come standard with one raw stainless steel fill/drain plug. Made specifically for PPE Pans and Covers. Not compatible with OEM Allison pans

**DO NOT
LET THIS
HAPPEN
TO YOUR
TAIL
SHAFT
HOUSING.**

TRANSFER CASE BRACE

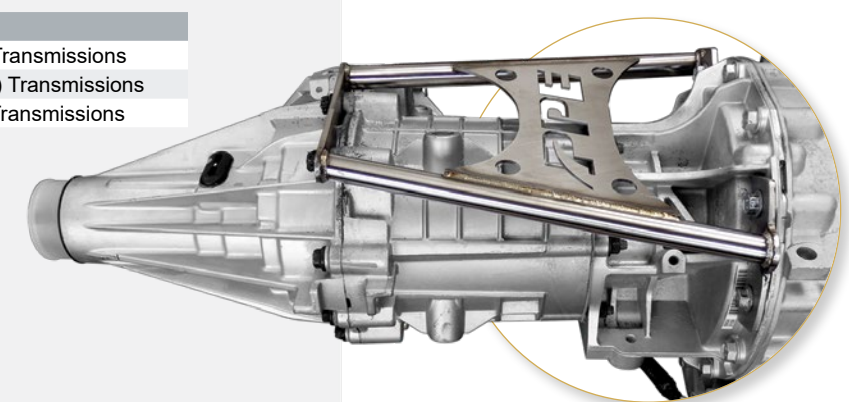
Cracked transmission tail shaft housings (located between the transfer case and the transmission) are a common problem for GM Allison-equipped 4x4 pick-ups in off-road and drag racing applications. Even a nominal amount of driveline vibration can cause the housing to fail, resulting in a transmission fluid leak or worse; internal transmission and transfer case damage. Once the housing cracks, repairing it requires removal of the transmission and transfer case.

PPE's Transmission Transfer Case Brace helps support the overhanging, heavy transfer case by spreading the load up and across the adapter housing to the center section of the transmission.

PPE's Transmission Transfer Case Brace utilizes two 304 stainless steel 7/8" support tubes tied together with a thick 304 stainless steel plate and TIG welded gussets for increased strength and service life.

Mounting the brace is a quick and easy job that can be done without removal of the transmission or transfer case. No special tools required.

PART NO.	APPLICATION
129020107	2001-2007 GM Allison (4x4) Transmissions
129020710	2007.5-2010 GM Allison (4x4) Transmissions
129021115	2011-2016 GM Allison (4x4) Transmissions



IT'S ALL ABOUT THE DETAILS.

EXTRA OIL CAPACITY

HIGH-GRADE ALUMINUM ALLOY

OIL SCRAPERS/
INTERNAL HEAT SINKS

EXTERNAL COOLING FINES

HEAVY-DUTY CAST ALUMINUM REAR DIFFERENTIAL COVERS

Help keep your differential running cool and clean with an upgraded differential cover from PPE. Made from high-quality cast aluminum for strength and optimum heat dissipation. Combined with the largest set of cast cooling fins in the industry, found both inside as well as outside the pan, PPE's differential covers offer industry-leading fluid cooling.

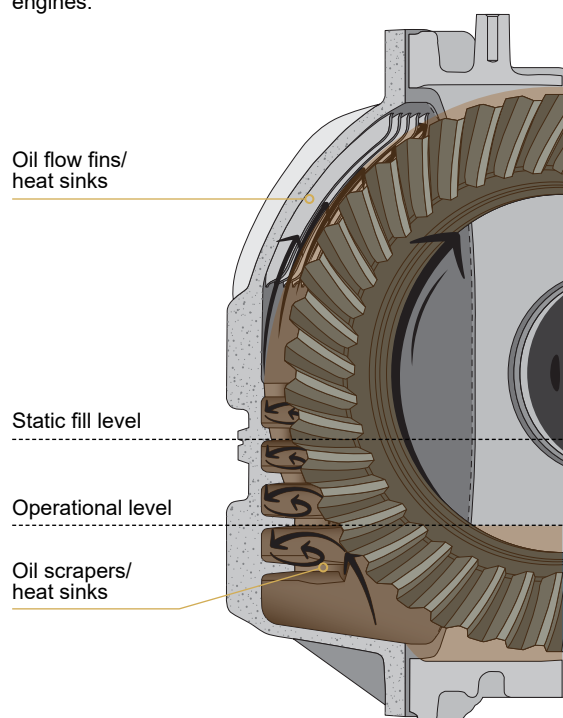
This pan also holds additional fluid, offering thermal stamina for those long hauls. To help keep fluid cleaner, PPE includes our exclusive fill plug featuring a high-powered Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage.

Features:

- Over one quart of extra oil capacity
- Cast from high-grade aluminum alloy
- Significant reduction in differential fluid temps
- External cooling fins and internal heat sinks radiate heat
- 1/8" stainless steel temperature probe plug
- Adds additional strength to gear housing
- Billet 304 stainless steel Neodymium magnet equipped fill plug
- Oil scraper design like oil systems used in professional racing

See how it works!

Scrapers draw excess oil off gear set, increasing MPG and increasing cooling ability of heat sinks similar to that of high-performance engines including NASCAR racing engines.



Available in three finishes



Raw finish



Brushed finish



Black finish



1972-2013 K1500 / Yukon / Tahoe / Suburban G10 and G20 2500LD / Blazer

PART NO.	FINISH	DESCRIPTION
138051100	Raw	10 Bolt • 5.8" Rear Axle
138051110	Brushed	10 Bolt • 5.8" Rear Axle
138051120	Black	10 Bolt • 5.8" Rear Axle

Available in three finishes



Raw finish



Brushed finish



Black finish



2001-2019 GM 2500HD/3500HD

PART NO.	FINISH	DESCRIPTION
238051000	Raw	14 Bolt • 11.5" Axle
238051010	Brushed	14 Bolt • 11.5" Axle
238051020	Black	14 Bolt • 11.5" Axle

Available in three finishes



Raw finish



Brushed finish



Black finish

All PPE Differential Covers come standard with one Neodymium Magnetic Fill Plug - See page 98 for product description.



Truck owner and photo: @robbie_lml





HEAVY-DUTY CAST ALUMINUM FRONT DIFFERENTIAL COVERS

Help keep your 2011+ GM's front differential running cool and clean with an upgraded differential cover from PPE. With the largest set of cast cooling fins in the industry, found both inside as well as outside the pan. This pan also holds an extra three-quarter quart of fluid, increasing cooling capacity when demanded by heavy 4WD use.

To keep the fluid clean, PPE installed its exclusive high-powered Neodymium magnet equipped fill plug will pull harmful ferrous metal particles right out of the oil before they have a chance to attack the bearings.

Features:

- Billet 304 stainless steel Neodymium magnet equipped fill plug
- 1/8" stainless temperature probe plug
- Retains use of original high-quality gasket
- Adds additional strength to gear housing
- Cast from high-grade aluminum alloy
- 1/4" external cooling fins
- 5/8" internal heat sinks
- 3/4 quart additional oil capacity
- Oil scraper design like oil systems used in professional racing

2011-2020 GM 9.25 IFS 2500HD/3500HD

PART NO.	FINISH
138041000	Raw
138041010	Brushed
138041020	Black

Available in three finishes



Raw finish



Brushed finish



Black finish

BUILD YOUR DREAM TRUCK.

Your old truck can be better, stronger and quicker than ever. We'll show you how. Talk with one of our performance specialists about your specific build.

WE CAN HELP YOU PUT BIG POWER TO THE GROUND.

PPE Customer Service Representatives are available:
Monday - Friday
8:00AM to 5:00PM PST
714. 985. 4825



YOU DREAM IT, WE BUILD IT.

COMPETITION + RACE + MARINE

We can work with you to design and build your engine to a finished level - or any level in between.

This can include the turbo and fuel system installed, or even a complete turnkey engine with every performance accessory needed to get you down the track faster.

STEP 1. CHOOSE YOUR BLOCK.

PPE has taken our advanced engineering knowledge and offer performance enhanced Duramax diesel engine builds that are tailor-fit to your specific needs. Now you choose how "built" your engine will be.

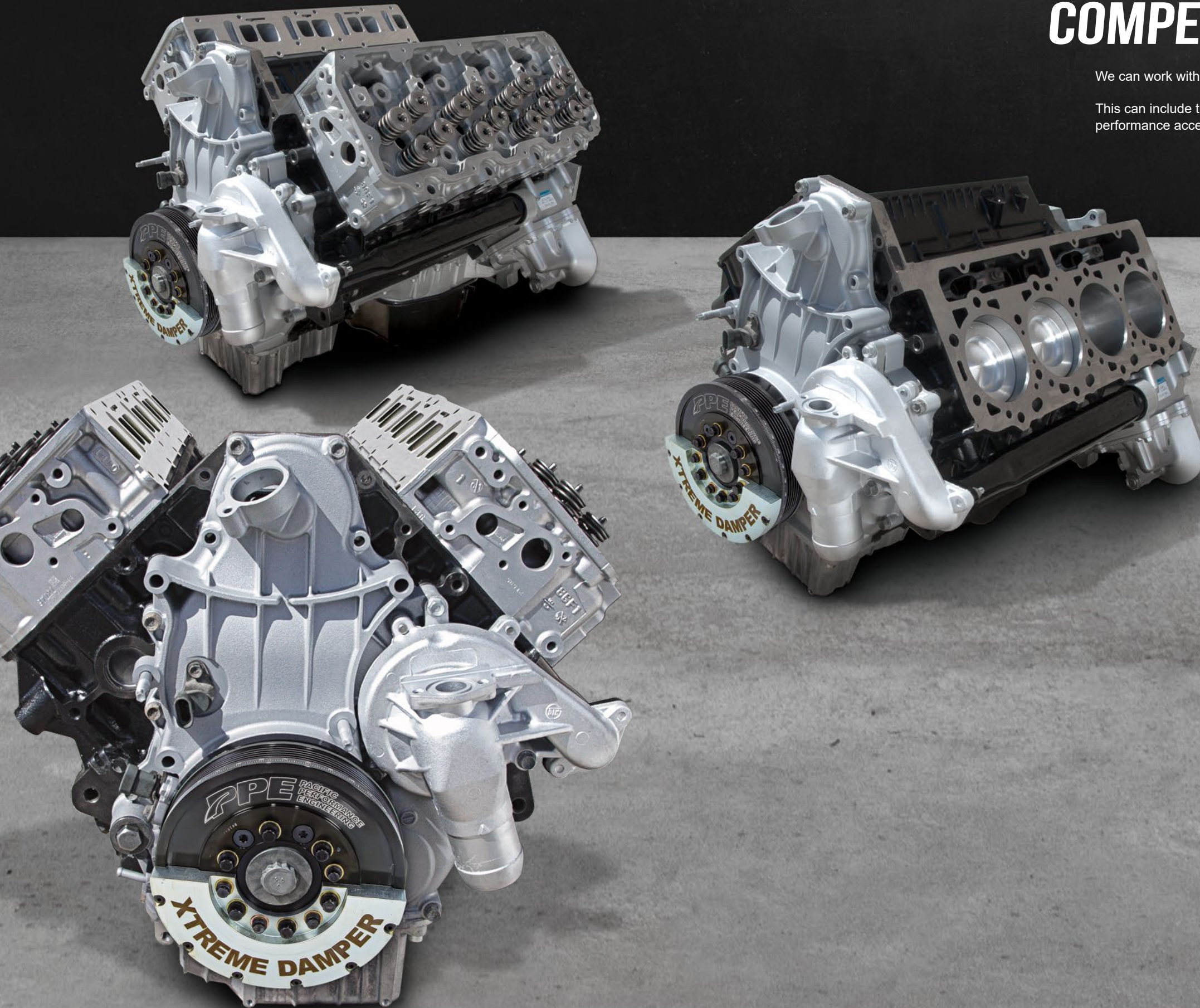
Short-block options begin with original GM parts in Stage 1 and are able to hold more horsepower and torque as the stages increase. If you want a long block engine, you have a choice in cylinder heads, which provide an increase in horsepower and torque as the stage increases. Create the engine of your dreams. There is sure to be the right combination of build for anyone: from street to strip, heavy-hauling to sled pulling.

Choose which stage short block and which stage cylinder head is best for you. There are many build option combinations and we are happy to work with you in determining your exact needs. Give us a call.

STEP 2. CHOOSE YOUR PERFORMANCE HEADS.

STEP 3. COMPLETE IT! CHOOSE YOUR OPTIONS.

- PPE Dry Sump Kit
- Performance Camshafts (Tow, Performance, Race) (Performance and Race camshafts require pistons with valve reliefs)
- Pistons with Valve Reliefs
- PPE Oil Cooler Delete Kit
- Rocker Arm Studs
- Billet Injector Hold Downs



STAGE 1 BUILT ENGINE

SHORT-BLOCK CUSTOM BUILD

Each engine is built with LBZ/LMM Rods with PPE Cast Pistons. Each engine block and crank are magnafluxed, hot tanked, prepped and painted black before the build. The block is decked, honed and the mains are machined for straightness. The entire rotating assembly is balanced and blueprinted. All our engines come with heavy-duty crank, rod and thrust bearings. Available with compression ratios ranging from 15:1 - 16.5:1 (PPE Xtreme Damper and PPE Main Studs are available options)



STAGE 2 BUILT ENGINE

SHORT-BLOCK CUSTOM BUILD

In addition to the build sheet listed on Stage 1, this level adds heavy-duty Carrillo Rods, PPE Main Studs, keyed crank and camshaft, and PPE Extreme Damper.

STAGE 3 BUILT ENGINE

SHORT-BLOCK CUSTOM BUILD

In addition to the build sheet listed on Stage 1 and Stage 2, This level adds forged pistons.

STAGE 0 PERFORMANCE HEADS

Features fully inspected and tested factory heads assembled using original GM parts. Heads are pressure tested, and a valve job is done.

STAGE 1 PERFORMANCE HEADS

These heads have a 5 angle valve job, are 5 axis CNC ported including radiusing the intake ports, and include titanium retainers, new spring cup bases, beehive valve springs with higher spring pressure, and new valve stem seals. These flow 35 CFM more than stock heads on the intake and exhaust ports.

STAGE 2 PERFORMANCE HEADS

Includes everything in Stage 1 and also has larger exhaust and intake valves, bronze valve guides, larger valve seats, and larger spring cup bases to accommodate the larger valves. These flow 75 CFM more than stock heads on the intake and exhaust ports.



Note that balancing the rotating assembly is required but clearance-modifications to the block are NOT required.

CONNECTING RODS

For nearly 50 years, the name Carrillo has been synonymous with high-performance connecting rods and winning races, that's why PPE offers them for our customers looking to build a true high-performance 650+ RWHP diesel engine.

Forged rods are much stronger than the factory units. That means they can take more horsepower and torque load while still reducing the overall weight of the reciprocating mass. It translates into the engine producing RPMs quicker.

PART NO.	APPLICATION
118030800	GM 6.6L Duramax

XTREME DAMPER

If your truck is producing extreme horsepower then it needs a PPE Xtreme Damper. A direct replacement for the OEM unit, PPE's Xtreme Damper is especially needed in high-performance and modified trucks to help protect against harmful engine harmonics. It provides balanced dampening of torsional crankshaft vibrations at any RPM.

Crankshaft installation increases dampening efficiency. Innovative 16.1 lb, three-piece design - (hub, outer ring and counterweights). It features laser-etched timing degree marks for easy reading and visibility.

Features:

- Press-fits onto the snout of the crankshaft
- NHRA and IHRA approved
- NASCAR approved
- Exceeds SFI 18.1 specs



118010200

PART NO.	APPLICATION
118010000	2001-2005 LB7/LLY
118010200	2006-2010 LBZ/LMM
118010400	2011-2016 LML

PISTON ASSEMBLIES

Mahle is one of the most respected names in piston manufacturing. This is why we at PPE have partnered with Mahle Motorsports to produce an open-bowl, low-compression racing piston designed for high-boost applications.

With a compression ratio available from 14.5 to 16.5 (stock can be 17.5:1), it means you can fully pack the cylinders with fuel and boosted air to achieve those ultra-high horsepower and torque numbers. PPE gives you plenty of options as these pistons are available either forged or cast and comes in Standard, .020" and .040"-over versions. Other options include custom compression ratios and can be had with or without valve reliefs for large cams.



Many more applications are available. Call to speak with a PPE representative for complete details.

Applications:

2001-2016 GM 6.6L Duramax



HEAD STUD KIT

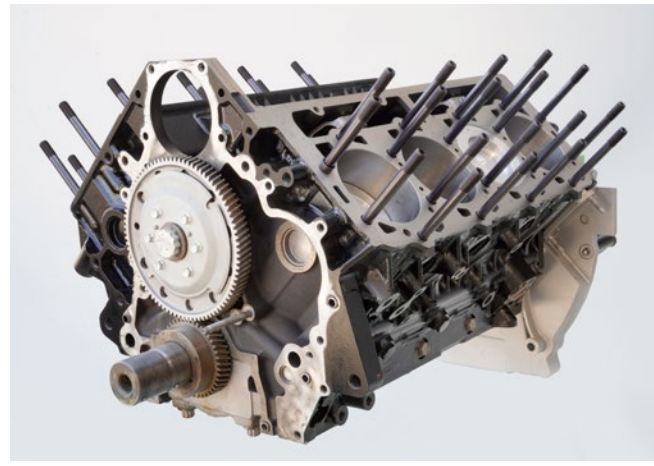
Engine builders understand the need for high-strength holding power and fasteners that are precision-engineered to handle the extreme stresses that high-performance diesel engines produce. The PPE Head Stud Kit exceeds industry standards required by performance engines. PPE Head Studs are precision center-less ground for accuracy. Thread-rolled to Mil-S-8879 specifications for increased strength while reducing stress at the threads.

Whether on the highway, off-road, strip or street, confidence comes from knowing these Head Studs exceed your needs. Highly recommended for boost levels 45 psi and higher. With an independently tested and verified tensile strength of over 231,900 psi, these Studs out-perform even the most renowned manufacturer.

Kits come complete with hardened parallel washers, nuts, and specially formulated assembly grease for uniform load distribution and accurate torque readings.

Features:

- Studs built specifically for high-performance applications
- Made from 8740 Chromoly with black oxide finish, for protection from corrosion
- 36 studs, 36 flat washers and 36 nuts. Fastener assembly lube included.



PART NO.	APPLICATION
118034300	2001-2016 GM 6.6L Duramax

MAIN STUD KIT

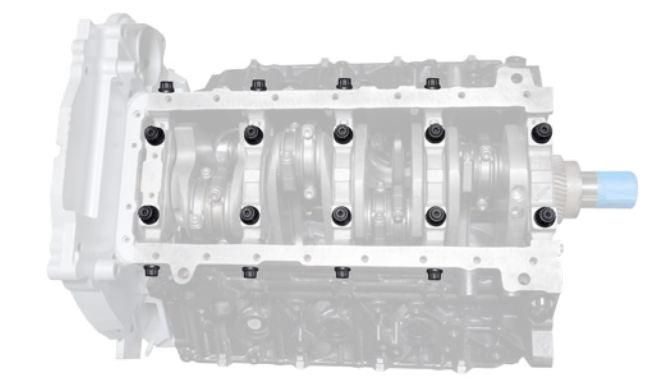
Increasing boost is great for horsepower gains, but it places significantly increased stresses on stock components that were not designed to handle them. Such is the case with the stock main bolts.

PPE addresses this common failure point in stock assemblies with this premium PPE Main Stud Kit. This kit is precision-engineered for the real-world of diesel competition, and is an excellent performance upgrade to any Duramax engine rebuild. These studs are thread-rolled to Mil-S-8879 specifications for increased strength and precision center-less ground for accuracy. These Studs out-perform even the most renowned manufacturer.

Kits come complete with hardened parallel washers, nuts, and specially formulated assembly grease for uniform load distribution and accurate torque readings.

Features:

- Made from 8740 Chromoly with black oxide finish
- Thread-rolled to Mil-S-8879 specifications
- Fastener assembly lube included



PART NO.	APPLICATION
118034000	2001-2005 GM 6.6L Duramax
118034100	2006-2016 GM 6.6L Duramax



A-PILLAR DOUBLE AND TRIPLE GAUGE MOUNT, WITH OR WITHOUT SPEAKER CUT-OUT

Monitor the most important aspects of your truck's engine vitals. PPE's A-Pillar Double and Triple Gauge Mounts securely hold standard 2-1/16" gauges, placed within convenient view of the driver. Made from sturdy ABS black plastic, these pillars are easily paint-matched to any interior.

Features:

- Convenient line-of-sight gauge placement
- Sturdy ABS black plastic construction
- Easily paint-matched to any interior

GM 2001-2007 Duramax 6.6L LB7/LLY/LBZ Chevy/GM/GMC/Sierra/Silverado 2500HD Trucks

PART NO.	DESCRIPTION
148010400	2 Gauge Pillar - No Speaker
148010500	3 Gauge Pillar - No Speaker
148010600	2 Gauge Pillar - With Speaker
148010700	3 Gauge Pillar - With Speaker

GM 2007.5-2019 Duramax 6.6L LMM/LML Chevy/GM/GMC/Sierra/Silverado 2500HD Trucks

PART NO.	DESCRIPTION
148011500	2 Gauge Pillar - No Speaker
148011600	3 Gauge Pillar - No Speaker
148011700	2 Gauge Pillar - With Speaker
148011800	3 Gauge Pillar - With Speaker



OVERHEAD BILLET GAUGE MOUNTS

This is for truck owners with an overhead storage unit who want to use that area for something more important than sunglasses and hankies. Put that area to work with one of PPE's Overhead Billet Gauge Mounts.

Made from CNC machined billet aluminum and available with or without a pair of auxiliary switches, these panels are perfect for installing two, 2-1/16" gauges. Available finishes are the perfect aesthetic fit for the interior of your ride.

Features:

- Provides a stylish yet functional view of your important gauges
- Holds two 2-1/16" gauges
- With or without auxiliary switches

GM 2001-2007 Classic with full-size overhead console with no sunroof

PART NO.	DESCRIPTION
148002000	Black without switches
148002100	Black with switches
148001000	Polished without switches
148001100	Polished with switches
148003000	Brushed without switches
148003100	Brushed with switches





TURBO BOOST PRESSURE GAUGE WITH TURBO BOOST PRESSURE GAUGE TUBING KIT

PPE's boost gauge was specifically designed for stock and performance diesel engines. It measures turbo boost pressure from 0 to 60 psi. Featuring easy to read white lettering on a black face which highlights the red needle. Equipped with dimmable white LED illumination for nighttime visibility.

Features:

- White lettering on black face with red needle
- Black bezel
- Dimmable white LED illumination
- Full-sweep design measures from 0 to 60 psi

PART NO.	APPLICATION
516010000	Any boosted vehicle

Includes Turbo Boost Pressure Gauge Tubing Kit (516010100). Also available for purchase separately.



FUEL RAIL PRESSURE GAUGE

Low fuel rail pressure readings can be a sign of fuel delivery trouble. Using the PPE Fuel Rail Pressure Gauge, it can be headed off before real trouble arises. This gauge helps you determine when your diesel is starving for fuel.

Features:

- White lettering on black face with red needle
- Black bezel
- Dimmable white LED illumination
- Full sweep design measures from 0 to 30,000 psi

PART NO.	APPLICATION
513010000	2001-2005 GM
513020000	2006-2016 GM



PYROMETER (EXHAUST GAS TEMPERATURE) GAUGE

Keeping your diesel engine within proper exhaust gas temperature (EGT) parameters is vitally important to ensuring the proper operation, reliability and longevity of your vehicle.

PPE's Pyrometer Gauge quickly shows just how hot your EGTs really are, allowing you to utilize all those upgrades while keeping your engine safe and out of the danger zone. This information also aids in programming fuel delivery so you can get the most power out of your diesel without damaging it in the process.

The easy to read white numbers on the black background highlight the OEM-style red pointer. The full-sweep design measures temperatures from 0 to 2,000 degrees Fahrenheit. When used correctly, PPE's Gauges will help extend the life of your drivetrain. Suitable for all makes and models, stock or modified.

Features:

- White numbers on black face with OEM style red needle
- Full-sweep design measures from 0 to 2,000 degrees
- Black bezel
- Dimmable white LED illumination
- Includes EGT extension harness and EGT probe

PART NO.	APPLICATION
517010000	For all makes and models, stock or modified.

Includes EGT extension harness (517010100) and EGT probe (517010200) with gauge bracket. Harness is 7.5ft. in length.



Duramax 6.6L Nordic diesel boat was fitted with a 5 speed Allison transmission and tuned with the Hot+2 E.T. Race Xcelerator.



MARINE WATER-COOLED STAINLESS STEEL T-4 TURBO PEDESTAL

Turbochargers can help an engine produce big power, but with that big power you also get a lot of heat. High-performance tuning mods create heat build-up and that is a problem for boaters. Engines that reside under covers or are close to the fiberglass/wood transom can actually cause major structural damage to the vessel.

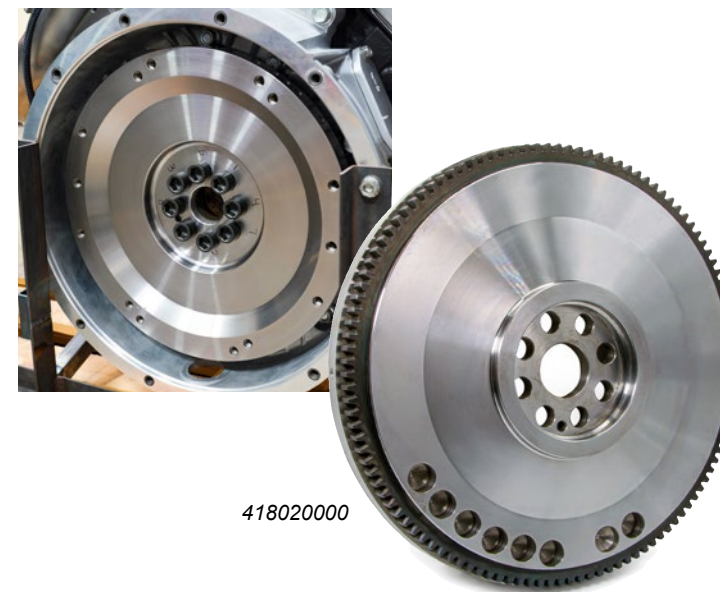
This stainless steel pedestal has passages that carry cooling water throughout the pedestal. It is made to accommodate a 40 Series Garrett turbocharger. A 42 Series or 45 Series - or any other turbo with T4 mount can be made to fit. There are no modifications necessary. The PPE Marine Water-Cooled stainless steel T-4 Pedestal bolts to the factory location.



PART NO.	APPLICATION
416005000	2001-2010 GM 6.6L Duramax

MARINE BILLET FLYWHEEL

With a diesel's easy-power-upgrading and torque-based delivery, powering your speedboat with diesel makes perfect sense. To make it easier for you to make the swap we offer this Marine Billet Flywheel. Machined out of solid billet steel and drilled for MerCruiser/IMCO and BAM transmission drive adapters, this flywheel has been fully balanced to OEM specs.



418020000

PART NO.	APPLICATION
418020000	2001-2005 GM 6.6L Duramax
418020600	2006-2010 GM 6.6L Duramax



CUSTOM MODIFICATIONS.

STAND-ALONE WIRING HARNESS MODIFICATION

These days, 6.6L Duramax diesel engines are being installed into many types of vehicles: classic trucks, boats and off-road racing vehicles. One of the complications with those installations is the computer/engine electrical aspect. PPE has the solution.

Send us your uncut, unmodified PCM to engine harness along with the ECU, TCM, GM factory throttle pedal (required) and pedal harness and our experts meticulously modify the harness to function in a stand-alone installation. Tell us what accessories you plan to include in your project: A/C, alternator, aftermarket gauges, and transmission-type, whether it's Allison, or even a manual transmission. When finished, we will qualify and test run your harness.

Features:

- OEM weatherproof connectors
- OBD II programming / DATA port
- Engine tachometer output lead
- Weatherproof fuse holders
- Fit to engine sensor locations



PART NO.	APPLICATION	DESCRIPTION
112011000	2001-2010	Engine only
112010000	2001-2010	Engine and Trans.
112011200	2001-2007	Engine only and Hot+2 E.T. Race
112010200	2001-2007	Engine, Trans. and Hot+2 E.T. Race
112011300	2007.5-2010	Engine only and Hot+2 E.T. Race
112010300	2007.5-2010	Engine, Trans. and Hot+2 E.T. Race

New harnesses are available at additional cost.



VATS (VEHICLE ANTI-THEFT SYSTEM) AUTHORIZATION MODULE

For 2011-2016 diesel engine transplant applications, PPE's new VATS Authorization Module authorizes the engine computer to start the engine and eliminates the GM security "Engine No Start" condition. No need for Body Control Module related security keys or complicated wiring - just four wires: ignition, ground, GMLAN+ and GMLAN-.

For 2011-2014 engines: Install VATS Delete Module and turn the ignition on, wait about 15 minutes for it to learn, then start the engine.

For 2015-2016 engines: It is necessary for ECM and module pairing to be done at our facility. Device then shipped ready to install.

Features:

- Simple four wire hookup (ignition, ground, GMLAN+, GMLAN-)
- Small package can be bundled directly with ECM harness
- Plug-and-play auto learning feature for 2011-2014 LML



PART NO.	APPLICATION
112100000	2011-2016 GM 6.6L Duramax 2014+ Gas Engines

HIGH IDLE/VALET SWITCH

This product allows for the engine idle to be set at 3 predetermined points (between 750 RPM and 1,800 RPM) to facilitate faster engine warm-ups, electrical system charging or even having the A/C or heater working at its optimal capacity. There is a "Valet" setting as well, which governs the engine so that it reaches a maximum of 2,000 RPM, top speed of 55 mph.

PART NO.	APPLICATION
111001800	2001-2002 GM 6.6L Duramax LB7
111002000	2003-2004 GM 6.6L Duramax LB7
111002200	2004.5-2005 GM 6.6L Duramax LLY

Includes dash panel insert and harness



111002200



ANALOG V8 TACHOMETER DRIVER

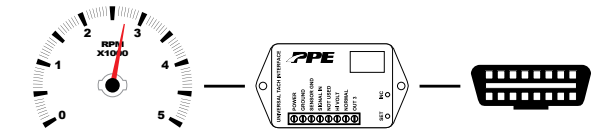
We doubt you have had to equip your Duramax with an old dash, but many of you are equipping an old classic truck, 60's era muscle car or even a ski boat with a Duramax engine. In either case, you have probably discovered that you now need to make your new Duramax electronics package compatible with the wiring of an old-school analog tachometer.

PPE has solved the problem for you. We spliced the wires and put the whole step into the PPE Analog V8 Tachometer Drive. By simply connecting the Duramax PCM tachometer output lead into the 'black box' and then running the wires from the box to the tach itself, the PPE Analog V8 Tachometer Drive will allow you to use any standard aftermarket V8 automotive coil-trigger style tachometer with the GM's factory Duramax power control module.

Features:

- Converts signal from digital to analog
- Great for boats, generators, hot rods
- Tough enough for off-road race applications

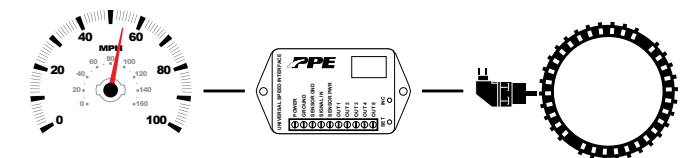
PART NO.	APPLICATION
112030000	2001-2007 GM 6.6L Duramax LB7/LLY/LBZ



SPEEDOMETER INTERFACE MODULE

The PPE Speedometer Interface Module is designed to recalibrate a speedometer signal or correct sinewave (AC)/squarewave ('oc') signal incompatibilities.

PART NO.	APPLICATION
122010000	2001-2016 GM 6.6L Duramax



DODGE • RAM SPECIFIC

PERFORMANCE + UPGRADES

EXPLORE THIS SECTION

- [120 - 124](#) FUEL SYSTEM
- [126 - 131](#) TRANSMISSION UPGRADES
- [132 - 135](#) DIFFERENTIAL COVERS
- [136 - 139](#) COMPETITION
- [140 - 141](#) DODGE DURANGO



DUAL FUELER CP3 PUMP KITS

By simply bolting this kit on, your engine computer will automatically recognize both pumps and continue to deliver the precise amount of fuel your engine computer is requesting. Our PPE belt-driven Bosch CP3 fuel pump works in conjunction with the stock fuel system and is controlled by a sophisticated microprocessor module.

Adding our kit to your stock fuel system reduces drive load on the stock CP3 pump, thereby increasing pump reliability. Both pumps work together, each delivering half the total volume of fuel required. In the event of one pump failing the electronic controller will automatically switch all fuel delivery responsibilities to the remaining operational pump. This kit will not produce more fuel pressure than the engine ECU requests, it will only increase fuel volume as needed to maintain ECU requested fuel pressure.

For racing applications, this kit provides fuel flow to maintain fuel pressure to 26,000+ psi that is essential for highly modified race engines that are seeking to produce high-horsepower.

Features:

- Dual Fueler kit includes all necessary parts for bolt-on installation
- New BOSCH CP3 pump assembly with heavy-duty mounting hardware
- Billet aluminum drive pulley (your choice of 816 or 7Y-Spoke)
- Microprocessor controller for seamless integration
- High and low pressure fuel lines
- Fuel rail adapters and fittings
- Retains factory safety pressure relief valve

Dual Fueler Kit with Pump

PART NO.	APPLICATION
213001100*	2003-2004 with Kick Down 5.9L
213002100*	2004.5-2007 5.9L
213003100†	2007.5-2012 6.7L
213004100†	2013-2017 6.7L

* This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-2

† This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-17

Dual Fueler Kit without Pump

PART NO.	APPLICATION
213001000*	2003-2004 with Kick Down 5.9L
213002000*	2004.5-2007 5.9L
213003000†	2007.5-2012 6.7L
213004000†	2013-2017 6.7L

* This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-2

† This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-17

Choose your Pulley!

Billet Aluminum Pulley Wheels

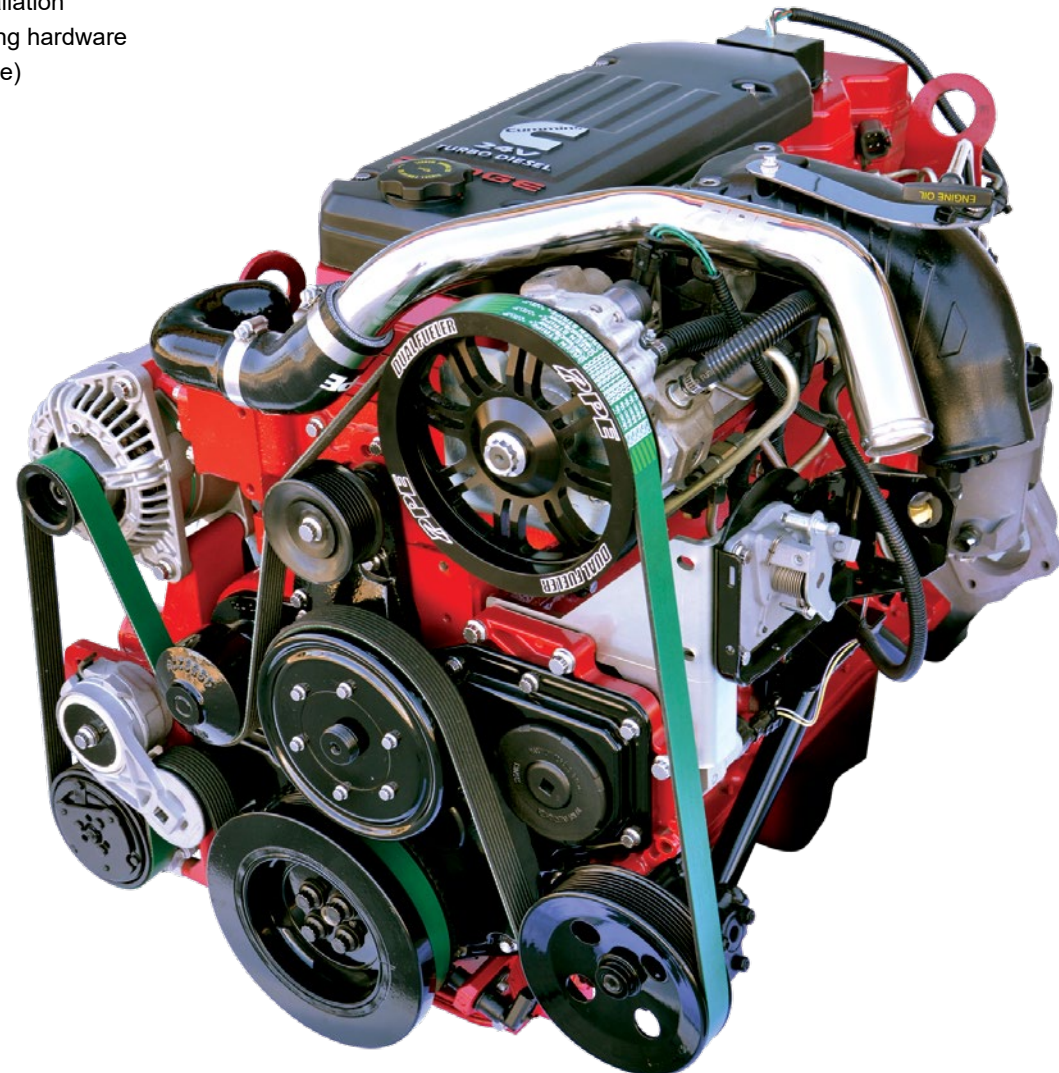
PART NO.	APPLICATION
213001090	816 Style
213001091	7Y-Spoke Style



113061071



113061072



213001100 Dual Fueler Kit with CP3 Pump showing the 816 Pulley Wheel option.



213003000 Dual Fueler Kit showing the 7Y-Spoke Pulley Wheel option.



BILLET ALUMINUM PULLEY WHEELS

A new makeover for your PPE Dual Fueler Kit's Classic Pulley. Now available as a bold and stylish upgrade to the PPE Dual Fueler Kit already installed on your rig, or included in your choice of style as standard equipment in all PPE Dual Fueler Kits.

Made from machined billet aluminum and then anodized for strength and style. The new PPE Dual Fueler Pulley Wheel features a more robust design with machined spokes to dress up your engine bay.



PART NO.	STYLE
213001090	816 Style
213001091	7Y-Spoke Style

REPLACEMENT DUAL FUELER HEAVY-DUTY SERPENTINE BELT

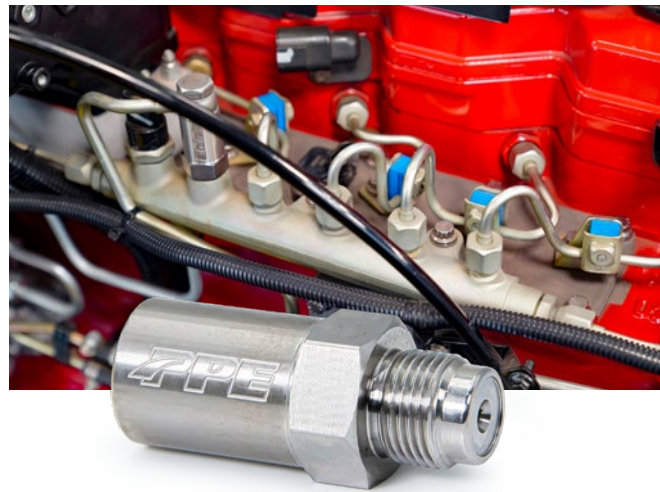
PPE's replacement Dual Fueler Heavy Duty Serpentine Belt handles big horsepower and torque numbers, and still lasts up to 3x longer than a comparable stock unit.



PART NO.	APPLICATION
213001080	2003-2012 Dodge/Ram 5.9L/6.7L

RACE FUEL VALVE

Replace your stock, or shimmed pressure relief valve with PPE's Race Fuel Valve. Made from billet stainless steel, this valve helps maintain fuel rail pressure during high engine load conditions. It eliminates potential low fuel rail pressure DTC codes P1093 or P0087 (low fuel rail pressure during power enrichment) caused by insufficient pressure relief valve spring pressure. This leads to the valve opening too early, which causes fuel to be returned to the tank, robbing you of power.



PART NO.	APPLICATION
213072800	2003-2007 Dodge 5.9L Cummins

FUEL RAIL - RAM 5.9L

Replace your old worn out fuel rail with a New OEM Bosch part. Includes new fuel rail, fuel pressure sensor and pressure relief valve. Direct bolt on, no modifications necessary. Compatible with PPE Race Fuel Valve 213072800 (available separately).



PART NO.	APPLICATION
213076000	2003-2007 Dodge 5.9L Cummins



RACE FUEL VALVE

The heat-treated billet stainless steel PPE Race Fuel Valve replaces stock or a shimmed pressure relief valve. This valve helps maintain fuel rail pressure during high engine load conditions. It eliminates potential low fuel rail pressure DTC codes P1093 or P0087 (low fuel rail pressure during power enrichment) that are caused by insufficient pressure relief valve spring pressure opening, and causing fuel to return to the tank.

PART NO.	APPLICATION
113073000	2007.5-2018 Dodge Cummins 6.7L

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-12 Requires the use of 113073001 Viton O-Ring (sold separately).

VITON O-RING FOR RACE FUEL VALVE

Engineered to accompany the PPE Race Fuel Valve. Made from high-quality, chemical-resistant Viton rubber, this O-ring is better than the stock unit and will last longer too!

PART NO.	APPLICATION
113073001	2007.5-2018 Dodge Cummins 6.7L



RELEASE VALVE SHIM KIT

The Release Valve Shim Kit increases the pressure needed to "pop off" the Pressure Relief Valve (PRV). This kit ensures the available fuel rail pressure requested by the engine computer remains high during high-throttle driving conditions.

It eliminates potential low fuel rail pressure DTC codes P1093 or P0087 (low fuel rail pressure during power enrichment) that are caused by insufficient pressure relief valve spring pressure opening, returning fuel to the fuel tank which robs you of power.

PART NO.	APPLICATION
113072000	2007.5-2018 Cummins 6.7L

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-32



CP3 PUMP INLET FITTINGS

Get the most fuel flow possible from your stock CP3 pump by eliminating possible cavitation damage to CP3 pump from excessive suction required by high-pressure CP3's fuel injection pump with a high-flow PPE billet stainless steel CP3 Pump Inlet Fitting.

The benefit to the larger inner diameter of the PPE fitting is that it allows fuel to flow up to 70% over the restrictive stock 1/4" inlet fitting. With a greater volume of fuel available to it, the CP3 injection pump is able to perform at its optimal capacity.

Features:

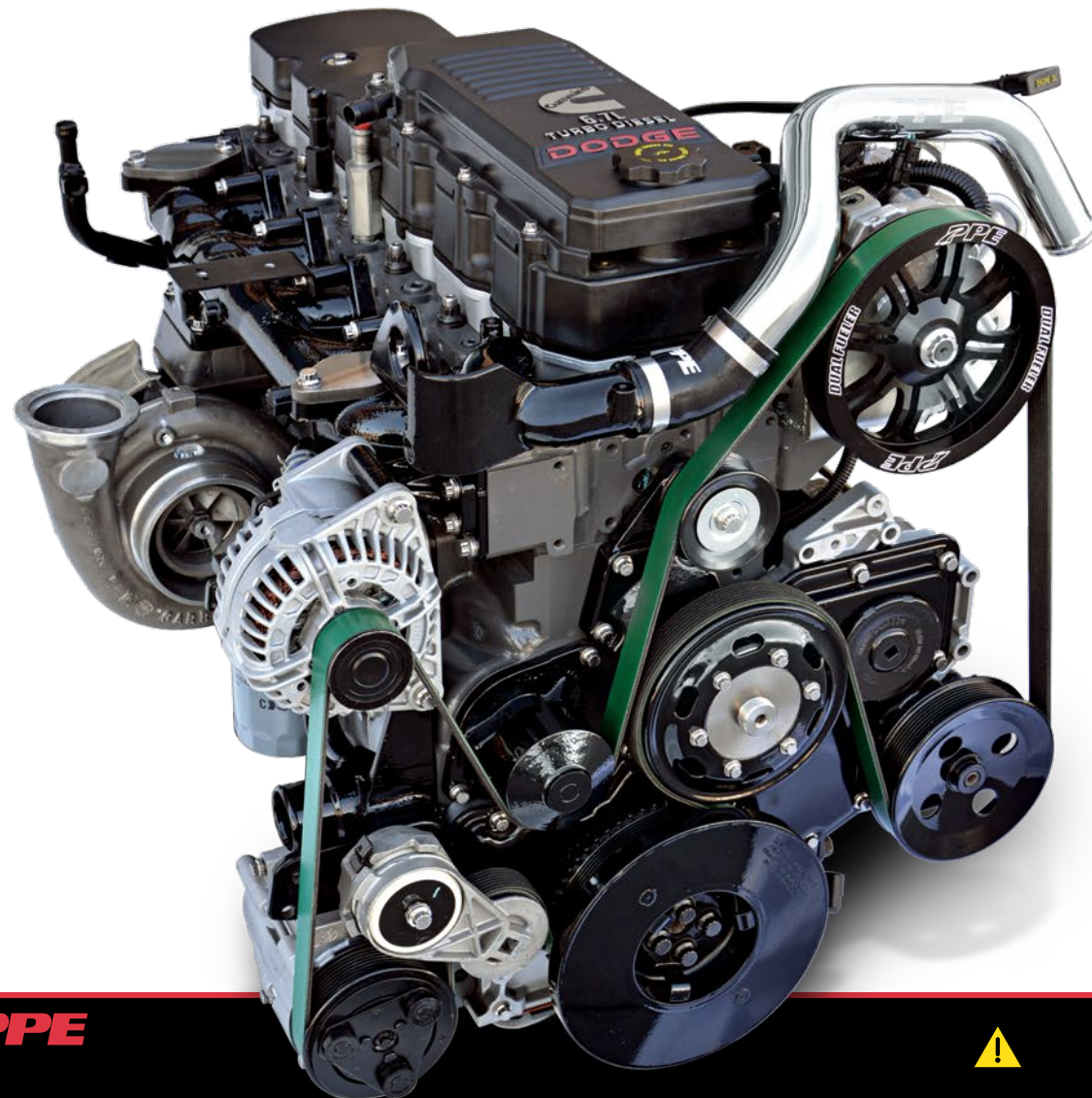
- 70% more flow over stock
- Billet stainless steel

Dodge 6.7L

PART NO.	SIZE
113060501	3/8"
113060601	1/2"

This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-27

Note: 3/8" version is the maximum fuel pump inlet size. 1/2" fitting allows for 1/2" hose reduced to 3/8" fuel pump inlet.



**TRANSMISSION
UPGRADES**



HEAVY-DUTY CAST ALUMINUM DEEP TRANSMISSION PAN

Simply stated, more is always better when it comes to transmission fluid. Higher volumes of fluid take longer to heat up allowing for more stable transmission temperatures which help to extend transmission life.

PPE's Heavy-Duty DEEP Transmission Pans hold an extra 4 quarts of fluid and are cast from high-strength aluminum for optimal heat dissipation. Tall 1" internal and 3/4" external cooling fins reduce operating temperatures as much as 40 degrees.

The PPE Heavy-Duty DEEP Aluminum Transmission Pan also features a high-powered Neodymium-magnet-equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

The PPE exclusive built-in filter block comes standard and keeps deep filters securely in place. Allen-head mounting bolts are included.

Features:

- Stainless steel drain plug
- 1/8" and 1/4" NPT temperature access ports
- Robust side ribs provide additional strength
- Viton O-Ring sealed filter spacer block included
- Includes heavy-duty MP-15 gasket (for use on early models)
- 4 quarts additional capacity
- Limited lifetime warranty

Applications:

1966-1989 36RH, 37RH
 1989-1995 46RH, 47RH, A-518
 1996-2001 46RE, 47RE
 2002-2007 48RE
 All 727 transmission bodies to current
 All 5.9L Diesels

PART NO.	FINISH
228051000	Raw
228051010	Brushed
228051020	Black

Available in three finishes



Raw finish Brushed finish Black finish



NEODYMIUM MAGNETIC DRAIN PLUG

To help keep fluid cleaner, PPE includes our exclusive fill plug featuring a high-powered Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage.

PART NO.	FINISH
128051001	304 Stainless Steel
128051002	Viton O-Ring for Drain Plug

Made specifically for PPE Pans and Covers.

HEAVY-DUTY CAST ALUMINUM 68RFE TRANSMISSION PAN

PPE's Heavy-Duty Transmission Pan for the Ram 68RFE transmission is constructed from high-quality cast aluminum.

This deep pan features internal heat sinks and external cooling fins. These cooling fins, combined with the aluminum construction, promote reduced transmission fluid temperatures. Cooler oil lubricates better which helps increase transmission service life.

All PPE pans come with a Neodymium-equipped, billet stainless steel drain plug to remove harmful ferrous metals from the oil. Kit includes two NPT plugs and access ports for temperature probes. The OEM-style factory filter is readily available, making future transmission service a cinch.

In testing, we used a 2013 2500 Cummins-powered Ram towing a 13,000 lb travel trailer. We took the pair on a 900 mile loop through city traffic, steep hill climbs as well as wide-open, flat highway runs. Transmission temperatures never went over 200 degrees. After cresting the top of hills, transmission temperatures also dropped much quicker than they did with the factory-installed stamped steel pan.

Unloaded temperatures were consistently 10 degrees (or lower) below those measured with a factory pan.

Features:

- 3 quarts additional capacity
- Available in Raw, Black, or Brushed finishes
- 1/8" and 1/4" NPT temperature probe access ports
- 1" billet 304 stainless steel drain plug equipped with an extremely powerful Neodymium magnet designed to extract harmful ferrous metal particles out of your oil
- Robust side ribs provide additional case strength
- Deep internal heat sinks prevent "sloshing" and help transfer heat
- External cooling fins reduce oil temps

Applications:

2007.5-2018 Dodge/Ram 2500HD/3500 Trucks with the 6.7L Cummins Diesel with a 6-speed 68RFE automatic trans Fits #45RFE / 545RFE with no exhaust pipe or the cross member interference.

PART NO.	FINISH
228052000	Raw
228052010	Brushed
228052020	Black

Available in three finishes



Raw finish Brushed finish Black finish



HEAVY-DUTY CAST ALUMINUM TRANSMISSION PAN 8HP70

Factory plastic pans are discarded each time you do an 8HP70 transmission service. Upgrade to a permanent solution.

PPE has engineered an exclusive cast aluminum pan with a replaceable filter, that means unlike the factory part there is no need to discard the factory pan assembly every time you service your truck's transmission. This eliminates the high cost of regularly replacing the factory pan. Now simply drain, replace filter and refill.

PPE's Heavy-Duty Transmission Pans hold extra fluid and are cast from high-strength aluminum for optimal heat dissipation. This pan features internal heat sinks and external cooling fins. These cooling fins, combined with cast aluminum construction, promote reduced transmission fluid temperatures. Cooler oil lubricates better which helps increase transmission service life and reduce service costs.

The PPE Heavy-Duty Aluminum Transmission Pan also features a high-powered Neodymium magnet equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

Features:

- Cast-aluminum construction
- Increased heat dissipation
- External cooling fins reduce oil temps
- Increased fluid capacity
- Includes replaceable filter
- 1/8" NPT temperature probe access port
- Billet 304 stainless steel Neodymium magnet equipped drain plug
- Limited lifetime warranty

Applications:

2014-2020 Ram 1500, 8-speed ZF 845RE/850RE 8HP70 Transmission, V6, V8 gas Hemi and EcoDiesel.

PART NO.	FINISH
228053000	Raw
228053010	Brushed
228053020	Black

Replacement filter also available for purchase separately (see 130 for details)

Available in three finishes



Raw finish Brushed finish Black finish



See page 130 for replacement 8HP70 PPE Transmission Pan Filter 228058600

HEAVY-DUTY CAST ALUMINUM TRANSMISSION PAN AISIN AS69RC

PPE's Heavy-Duty Transmission Pans hold extra fluid and are cast from high-strength aluminum for optimal heat dissipation. This pan features internal heat sinks and external cooling fins. These cooling fins, combined with the aluminum construction, promote reduced transmission fluid temperatures. Cooler oil lubricates better which helps increase transmission service life and reduce service costs.

The PPE Heavy-Duty Aluminum Transmission Pan also features a high-powered Neodymium magnet equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

Features:

- Cast-aluminum construction
- Increased heat dissipation
- External cooling fins reduce oil temps
- Increased fluid capacity
- 1/8" NPT temperature probe access port
- Billet 304 stainless steel Neodymium magnet equipped drain plug
- Limited lifetime warranty

Applications:

AS69RC 2013-2020 3500/4500/5500 Dodge/Ram

PART NO.	FINISH
228053200	Raw
228053210	Brushed
228053220	Black

Available in three finishes



Raw finish Brushed finish Black finish



VITON O-RING SEALED FILTER SPACER BLOCK

A common problem with some competitor's pans is that their spacer blocks do not have an O-ring. Therefore their units can suck air and become starved of fluid which can lead to a costly transmission failure. Due to its positive seal, there will be no leaks with the Viton O-Ring.

New screws come with the kit to securely attach the filter.

If you use a PPE Heavy-Duty Deep Transmission Pan on your Dodge, then you need a PPE Viton O-Ring Sealed Filter Spacer Block to properly place the filter/pick up further down into the fluid. This may seem obvious, but the Viton O-ring makes all the difference.

PART NO.	APPLICATION
228051001	1966-1989-36RH, 37RH
	1989-1995-46RH, 47RH, A-518
	1996-2001-46RE, 47RE
	2002-2007-48RE
	All 727 transmission bodies to current All 5.9L Diesels



8HP70 PPE TRANSMISSION PAN FILTER

This is the same superior performing PPE filter that came with your PPE 8HP70 Transmission Pan upgrade (page 128). Keep one on hand for your next service. Simply drop the pan, replace the filter, reinstall, and fill with fluid.

PART NO.	APPLICATION
228058600	PPE Heavy-Duty Cast Aluminum Transmission Pans 8HP70 (page 128)



NEODYMIUM MAGNETIC DRAIN PLUG

To help keep fluid cleaner, PPE offers our exclusive fill plug featuring a high-powered Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage.

PART NO.	FINISH
128051001	304 Stainless Steel
128051002	Viton O-Ring for PPE Drain Plug

Made specifically for PPE Pans and Covers.



TRANSMISSION FLUID THERMAL BYPASS VALVE

Add another measure of protection and increase fluid flow to transmission cooler increasing cooling capacity with the easy-to-install billet aluminum PPE Transmission Fluid Thermal Bypass Valve for the Ram Cummins diesel.

The OEM part has restrictive internal passages. When the OEM valve fails in the open position, transmission fluid doesn't reach your cooler. This can be caused by mechanical failure or debris. The result of stock valve failure can cause the transmission to dangerously overheat. Without properly cooled transmission fluid, the demands of towing and rigorous stop-and-go driving conditions shorten the life of transmission components.

The PPE Bypass eliminates the extremely restrictive mechanical factory valve which maximizes fluid flow from the transmission cooler. For further protection, a Neodymium magnet equipped service plug has been added. The removable plug traps ferrous debris and can be accessed to remove particles from the system. The factory bypass valve does not have this feature.

PART NO.	APPLICATION
225065000	2014-2018 Ram 2500/3500
225065100	2019+ Ram 2500/3500



KEEP YOUR REAR DIFFERENTIAL RUNNING COOL-N-CLEAN.

HEAVY-DUTY CAST ALUMINUM REAR DIFFERENTIAL COVERS

Help keep your rear differential running cool and clean with an upgraded differential cover from PPE. Made from high-quality cast aluminum for strength and optimum heat dissipation. Combined with the largest set of cast internal heat sinks and external cooling fins in the industry. PPE's Differential Covers offer industry-leading fluid cooling.

PPE Differential Covers also hold additional fluid, offering thermal stamina for those long hauls. To help keep fluid cleaner, PPE includes our exclusive fill plug featuring a high-powered Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage.



Truck owner:
Andrew Villablanca



238051020 Rear Differential Cover in black finish



138051020 Rear Differential Cover in black finish



238050010 Rear Differential Cover in brushed finish

2003-2019 Dodge/Ram 2500/3500

PART NO.	FINISH	DESCRIPTION
238051000	Raw	14 Bolt
238051010	Brushed	14 Bolt
238051020	Black	14 Bolt

Available in three finishes



Raw finish



Brushed finish



Black finish

Dodge/Ram

2003-2013 2500/3500 w/ 14 bolt - 11.5" rear axle
2014-2016 2500/3500 w/ leaf springs

PART NO.	FINISH
138051000	Raw
138051010	Brushed
138051020	Black

Will not fit trucks with coil springs

Available in three finishes



Raw finish



Brushed finish



Black finish

1994-2020 Dodge/Ram 1500 trucks (V6 Gas, V8 Gas) and EcoDiesel

PART NO.	FINISH
238050000	Raw
238050010	Brushed
238050020	Black

Available in three finishes



Raw finish



Brushed finish



Black finish





HEAVY-DUTY CAST ALUMINUM FRONT DIFF COVERS.

Our Dodge/Ram Differential Covers are equipped with internal heat sinks and external cooling fins, increasing the pan's surface area and helping dissipate heat. This makes for a much cooler and denser oil to lubricate with. Cool, dense fluid lubricates better, which will extend differential service life. The internal heat sinks are 7/8" tall while the external fins measure nearly 1/2".

To keep the fluid clean, PPE installed its exclusive high-powered Neodymium magnet equipped fill plug will pull harmful ferrous metal particles right out of the oil before they have a chance to attack the bearings and gears.

These covers also feature a pre-tapped 1/8" NPT port for a temperature probe. The Covers also come with a billet 304 stainless steel Neodymium magnet equipped fill plug.

Features:

- Increased oil capacity
- Cast from high-grade aluminum alloy
- Reduction in differential fluid temperatures
- 1/2" external cooling fins
- 7/8" internal heat sinks
- 1/8" NPT temperature probe plug
- Adds additional strength to gear housing
- Billet 304 stainless steel Neodymium magnet equipped fill plug
- Oil scraper design as used in NASCAR racing engines



238041000 Front Differential Cover in raw finish



238042010 Front Differential Cover in brushed finish

2003-2014 Dodge/Ram 4x4 2500 Pickups

PART NO.	FINISH
238041000	Raw
238041010	Brushed
238041020	Black

Available in three finishes



Raw finish Brushed finish Black finish

2015-2019 Ram 2500/3500 Pickups

PART NO.	FINISH
238042000	Raw
238042010	Brushed
238042020	Black

Available in three finishes



Raw finish Brushed finish Black finish

All PPE Covers include billet stainless steel fill plugs with a 17mm hex fitting for easy install and removal and feature a powerful Neodymium magnet to pull ferrous metal from your oil.



128051001

PART NO.	FINISH
128051001	Raw stainless steel
128051002	O-Ring for PPE Drain Plug

Made specifically for PPE Pans and Covers.



See how it works!

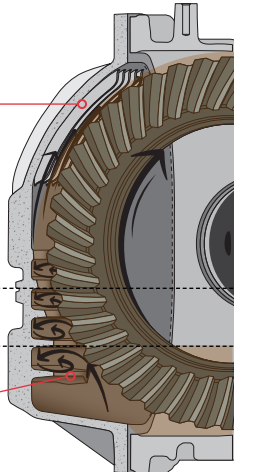
Scrapers draw excess oil off gear set, increasing MPG and increasing cooling ability of heat sinks similar to that of high-performance engines including NASCAR racing engines.

Oil flow fins/heat sinks

Static fill level

Operational level

Oil scrapers/heat sinks



ESSENTIALS FOR OPTIMUM PERFORMANCE AND ENGINE LONGEVITY.



TURBO BOOST PRESSURE GAUGE WITH TURBO BOOST PRESSURE GAUGE TUBING KIT

PPE's boost gauge was specifically designed for stock and performance diesel engines. It measures turbo boost pressure from 0 to 60 psi. Featuring easy to read white lettering on a black face which highlights the red needle. Equipped with dimmable white LED illumination for nighttime visibility.

Features:

- White lettering on black face with red needle
- Black bezel
- Dimmable white LED illumination
- Full-sweep design measures from 0 to 60 psi

PART NO.	APPLICATION
516010000	Any boosted vehicle

Includes Turbo Boost Pressure Gauge Tubing Kit (516010100). Also available for purchase separately.



FUEL RAIL PRESSURE GAUGE

Low fuel rail pressure readings can be a sign of fuel delivery trouble. Using the PPE Fuel Rail Pressure Gauge, it can be headed off before real trouble arises. This gauge helps you determine when your diesel is starving for fuel.

Features:

- White lettering on black face with red needle
- Black bezel
- Dimmable white LED illumination
- Full sweep design measures from 0 to 30,000 psi

PART NO.	APPLICATION
513010000	2003-2017 Dodge • Ram



PYROMETER (EXHAUST GAS TEMPERATURE) GAUGE

Keeping your diesel engine within proper exhaust gas temperature (EGT) parameters is vitally important to ensuring the proper operation, reliability and longevity of your vehicle.

PPE's Pyrometer Gauge quickly shows just how hot your EGTs really are, allowing you to utilize all those upgrades while keeping your engine safe and out of the danger zone. This information also aids in programming fuel delivery so you can get the most power out of your diesel without damaging it in the process.

The easy to read white numbers on the black background highlight the OEM-style red pointer. The full-sweep design measures temperatures from 0 to 2,000 degrees Fahrenheit. When used correctly, PPE's Gauges will help extend the life of your drivetrain. Suitable for all makes and models, stock or modified.

Features:

- White numbers on black face with OEM style red needle
- Full-sweep design measures from 0 to 2,000 degrees
- Black bezel
- Dimmable white LED illumination
- Includes EGT extension harness and EGT probe

PART NO.	APPLICATION
517010000	For all makes and models, stock or modified.

Includes EGT extension harness (517010100) and EGT probe (517010200) with gauge bracket. Harness is 7.5 ft. in length.



HEAD STUD KIT

PPE Cylinder Head Studs are precision centerless-ground for accuracy. Thread-rolled to Mil-S-8879 specifications for increased strength while reducing stress at the threads. Hardened parallel washers for uniform load distribution and accurate torque readings. It is highly recommended for boost levels of 45 psi and higher.

Each kit comes with hardened parallel washers, and nuts for uniform load distribution, contributing to accurate torque readings.

Features:

- Studs built specifically for high-performance applications
- 8740 Chromoly with black oxide finish, for protection from corrosion
- Includes studs, flat washers and nuts. Fastener assembly lube included.

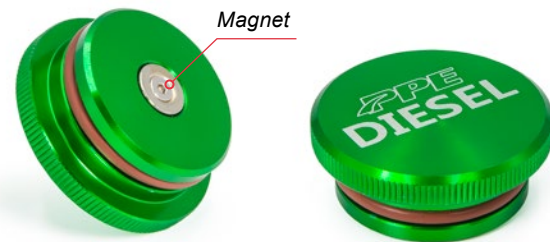


PART NO.	APPLICATION
218034300	1998.5+ Dodge 5.9L/6.7L 24V

MAGNETIC FUEL CAP

Green anodized CNC machined billet aluminum upgraded replacement for the OEM plastic fuel cap. Ensure your fuel tank is staying tightly sealed and clean by keeping water and debris out with this easy fix. The Viton O-ring tightly seals off the fuel filler neck. The high-power magnet on the underside allows you to mount it on any metal part of the truck for safekeeping until you have completed your fill-up.

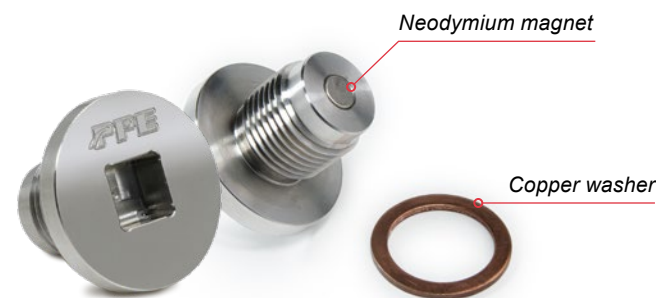
PART NO.	APPLICATION
273001000	2013-2018 Ram EcoDiesel and Ram 6.7L 2500HD-3500HD



OIL DRAIN PLUG

PPE's CNC machined hardened stainless steel Billet Oil Drain Plug comes equipped with a Neodymium magnet to pull any harmful ferrous metal contaminants from the oil, and helps extend the life of your engine. Make sure to have a PPE Billet Oil Drain Plug in hand for your next oil change. Comes equipped with a new copper washer.

PART NO.	APPLICATION
214052001	Dodge 5.9L 6.7L



INNOVATIONS IN PERFORMANCE.

We engineer and build race-winning parts to help achieve greatness on the strip, and 50 State E.O.-legal upgrades for the daily commute. From the intercooler, all the way back to the exhaust pipe, PPE offers hundreds of performance enhancements to help trucks run faster, stronger, more-efficient.

YOU SET YOUR GOAL, WE'LL SUPPORT YOUR EFFORT.



Truck owner: Tristan King





HEAVY-DUTY ALUMINUM TRANSMISSION PAN

Designed for the Dodge Durango, PPE has engineered an exclusive removable and replaceable oil filter. That means unlike the factory part, there's no need to discard the filter pan assembly every time you service your transmission. This eliminates the high cost of regularly replacing the factory pan. Now simply remove, replace filter and reinstall.

PPE's Heavy-Duty Transmission Pans hold extra fluid and are cast from high-strength aluminum for optimal heat dissipation. This pan features external cooling fins. These cooling fins, combined with the aluminum construction, promote reduced transmission fluid temperatures. Cooler fluid lubricates better which helps increase transmission service life and reduce service costs.

The PPE Heavy-Duty Aluminum Transmission Pan also features a high-powered Neodymium magnet equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

Features:

- Cast-aluminum construction
- Increased heat dissipation
- External cooling fins reduce oil temps
- 1.5 Quart increased fluid capacity
- Includes replaceable filter
- Neodymium magnet equipped billet stainless pulls harmful ferrous metal contaminants from the fluid
- 1/8" NPT temperature probe access port
- Limited lifetime warranty

HEAVY-DUTY ALUMINUM OIL PAN

Whether your stock stamped steel oil pan has been damaged, rusted through, or you want a simple bolt-on upgrade with better performance, the PPE Cast Aluminum Oil Pan is your best choice.

Thick cast aluminum is far superior to stamped steel for cooling engine oil. PPE has engineered deep exterior fins that follow underside air flow and increase surface area to radiate heat better than stock. Cast gussets provide strength and rigidity to the housing.

We've even upgraded the drain plug. Our exclusive PPE Neodymium Magnet Equipped Billet Hardened Stainless Steel Drain Plug is included. The powerful integrated magnet pulls ferrous metals out of the oil before they do damage. The factory plug has no magnet and provides no protection.

Upgrade performance, looks and quality with this easy install.

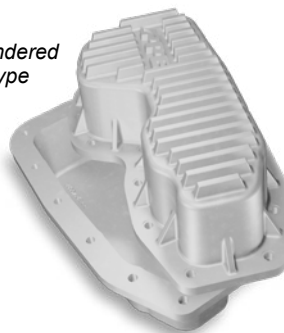
Features:

- Thick, cast aluminum for superior heat dissipation
- Gussets add strength to the housing
- Cast fins increase surface area and use air flow to cool oil better than stock
- Includes Neodymium magnet equipped, billet 304 stainless steel drain plug
- Available in Raw, Brushed and Black finishes
- Limited lifetime warranty



3D printed prototype test fit on vehicle

3D rendered prototype



Available in three finishes



Raw finish



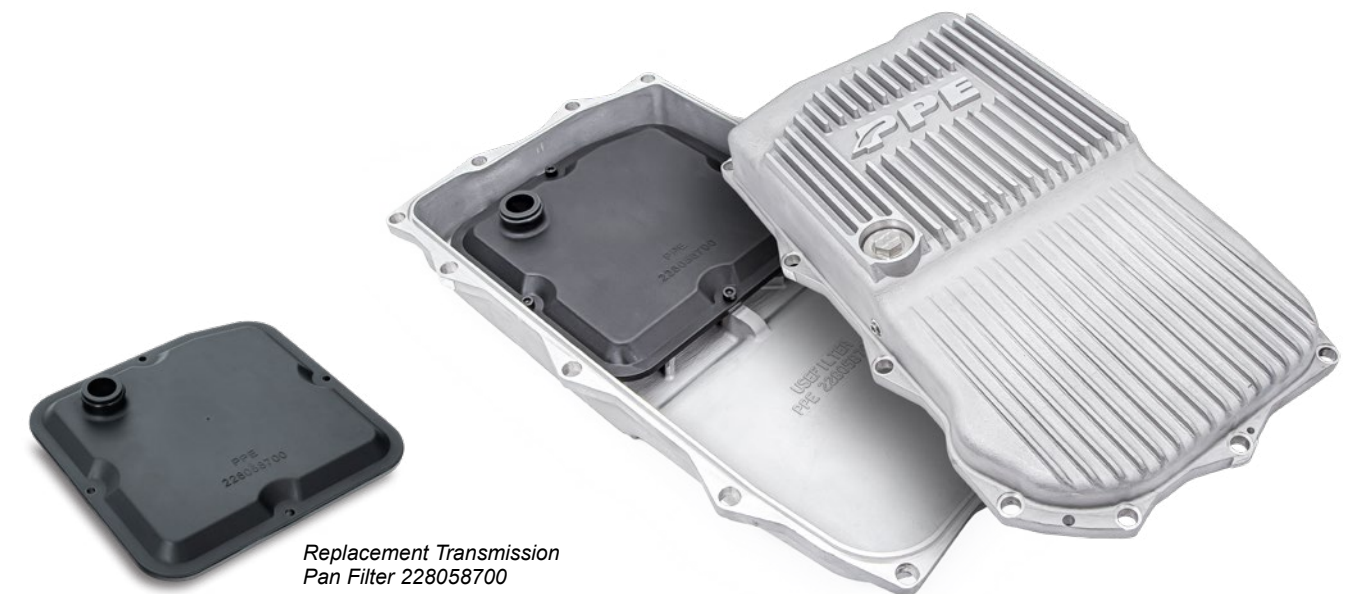
Brushed finish



Black finish

2011+ Dodge Durango 3.6L V6 Gas

PART NO.	FINISH
214052200	Raw
214052210	Brushed
214052220	Black



Replacement Transmission Pan Filter 228058700

**2014+ Dodge Durango
3.6L V6 with 845RE/850RE Transmission
5.7L V8, 6.4L V8 with 8HP70/8HP75 Transmission**

PART NO.	FINISH
228053400	Raw
228053410	Brushed
228053420	Black
228058700	Replacement Transmission Pan Filter

Available in three finishes



Raw finish



Brushed finish



Black finish



FORD-SPECIFIC PERFORMANCE + UPGRADES

EXPLORE THIS SECTION

144 - 145 INTAKE • TURBO • EXHAUST

146 EXHAUST SYSTEM

147 PERFORMANCE SILICONE HOSES

148 - 149 TRANSMISSION UPGRADES

150 - 151 OIL SYSTEM

152 - 153 DIFFERENTIAL COVERS

154 - 155 COMPETITION • RACE



OEM REPLACEMENT UP-PIPES.



Leaky up-pipes can rob horsepower, increase EGTs, and will cover the back of the engine compartment in soot. PPE's new up-pipes feature an improved bellow design which is much more robust than the problematic factory design and intended to last the life of your truck.

Features:

- Free-flowing 304 stainless steel inner liner bellows
- Stainless steel 11-gauge
- Wall thickness: .120"
- Outside diameter: 2"

IMPROVED FLOW OVER STOCK



PART NO.	APPLICATION	DESCRIPTION
316119503*	2003.5-2004 Ford 6.0L	Round EGR Cooler (tall spout)
316119504*	2004-2007 Ford 6.0L	Square EGR Cooler (square spout)
316119508	2008-2010 Ford 6.4L	

*This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-8



316129504



316129503



OEM REPLACEMENT EGR COOLER

OEM replacement EGR Cooler with heavy-duty 304/316 stainless steel construction allowing for longer service life.

Twelve internal, 316 stainless steel tubes keep exhaust gasses cooler.

PART NO.	APPLICATION
316129503	2003-2004 Ford 6.0L
316129504	2004-2007 Ford 6.0L

This product earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-7



EGR COOLER INSTALLATION KIT

Gaskets and installation parts necessary for the 6.0L Power Stroke EGR Cooler. Fits both round and square EGR Coolers.

PART NO.	APPLICATION
316129505	2004-2007 Ford 6.0 Diesel



116454019

116454018

MASS AIR FLOW SENSOR MOUNTS

If you're building a custom intake for your Power Stroke you'll need a new place to safely mount the Mass Air Flow sensor (MAF). These fabricator-style MAF mounts come in mild steel or aluminum to suite your needs. They come raw so they're ready to weld on. Includes new 304 stainless steel hardware to secure the MAF sensor to the PPE mount.

PART NO.	APPLICATION	MATERIAL
116454019	2011-2017 Ford 6.7L	Mild steel
116454018	2011-2017 Ford 6.7L	Aluminum



CAT-BACK EXHAUST SYSTEM.



TIG welded 304 stainless steel

317043030

WHY PPE ONLY USES 304 STAINLESS STEEL AND WILL NEVER USE 409 STAINLESS FOR ANY PPE PRODUCTS.

304 stainless steel is the highest-quality stainless steel in commercial automotive use. 304 stainless steel is very tough and highly corrosion-resistant, with a 20% chromium and 10% nickel alloy content. 304 stainless steel is also nonmagnetic due to its low ferrous metal content, therefore not attracted to magnetic fields.

409 stainless steel is used in most stainless steel exhaust systems because of its significantly lower cost. With a lower chromium content (10-12%) and nickel alloy content at only .05% it is more likely to rust, especially in cold and wet climates. 409 stainless steel also contains a higher ferrous metal content causing it to be attracted to magnetic fields.



315903200

315903300

315900100

315903100

SILICONE HOSE UPGRADES

PERFORMANCE SILICONE HOSES

Each PPE Performance Silicone Hose is strengthened with 5 plies of NOMEX® reinforced fibers making them very tough. Fluorocarbon lining offers better lubricity (slippery and resistant to chemicals) and the silicone rubber construction ensures they can withstand constant boost pressures and temperatures from -76 degrees all the way to +437 degrees Fahrenheit. PPE silicone will maintain structural integrity even when subject to high boost pressures throughout the temperature range. In short, PPE Performance Silicone Hoses will not blow out like a stock hose will.

PPE's Silicone Hoses are resistant to fuel, oil and chemicals while also being UV and Ozone resistant. These hoses can handle the extreme exposure that heavy usages puts upon them. With multiple sizes and configurations, there is a PPE Performance Silicone Hose for every design application.

Drag racing and sled pulling place huge stress on your truck's silicone hoses in a very short period of time. PPE's hoses were designed to handle the rigors of increased pressures during racing and competition. Their performance tolerances make them an excellent upgrade for your daily driving and the extremes of towing heavy loads.

Features:

- Handles high boost pressures
- Working pressure: 70 psi - BAR 4.8
- Burst pressure: 207 psi - BAR 14.3
- Higher flow and better lubricity than rubber
- UV and Ozone resistant
- Fluorocarbon lining resistant to oil, fuel and high temperatures

Performance Silicone Hoses

PART NO.	APPLICATION
315903100	Ford 6.0L
315903200	Ford 6.0L
315903300	Ford 6.0L
315900100	Ford 7.3L

CAT-BACK EXHAUST SYSTEM WITH TIPS

Do you want your truck to sound better and get better performance, but not be annoying to drive day-to-day? This kit offers a mellow interior tone with an aggressive exterior sound.

Easy to install, these kits are constructed entirely of 304 stainless steel and use the factory hangers, and clear your factory-mounted spare tire. Complete with a 3" inlet pipe that splits into two, 2.5" over-axle tail pipes after the stainless steel muffer designed with reinforced internal baffles, then exhaust exits out the two large-diameter stainless steel tips.

Stainless steel tips are available in your choice of ceramic coated black or fully-polished finishes. Kit also available with fully-polished tubes and tips.

PART NO.	APPLICATION	FINISH
317040020	2015-2020 F-150 V8 5.0L V6 3.5L and 2.7L/3.5L EcoBoost Gas 2WD/4WD	Raw tube with black tips
317040030	2015-2020 F-150 V8 5.0L V6 3.5L and 2.7L/3.5L EcoBoost Gas 2WD/4WD	Raw tube with polished tips
317043030	2015-2020 F-150 V8 5.0L V6 3.5L and 2.7L/3.5L EcoBoost Gas 2WD/4WD	Fully polished
317030020	2009-2014 F-150 V8 4.6L, 5.0L, 5.4L and 3.5L EcoBoost 2WD/4WD	Raw tube with black tips
317030030	2009-2014 F-150 V8 4.6L, 5.0L, 5.4L and 3.5L EcoBoost 2WD/4WD	Raw tube with polished tips
317033030	2009-2014 F-150 V8 4.6L, 5.0L, 5.4L and 3.5L EcoBoost 2WD/4WD	Fully polished

Fits all wheelbase configurations.



HEAVY-DUTY CAST ALUMINUM DEEP TRANSMISSION PAN

PPE's cast aluminum pan that increases fluid levels and provides superior cooling over the plastic stock version. Deep cast aluminum construction with exterior fins transfer heat away from transmission internals. Higher volumes of fluid take longer to heat up allowing for more stable transmission temperatures which help to extend transmission life.

The PPE Heavy-Duty 10R80 Transmission Pan also features our high-powered Neodymium magnet equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

Features:

- Compatible with OEM gasket
- 1.72 quart additional fluid capacity
- Robust side ribs provide added strength
- Pan cast from high-strength aluminum alloy
- Flat bottom - solves the complete fluid drainage problem
- External cooling fins and internal heat sinks reduce fluid temps
- Includes Neodymium magnet equipped, billet 304 stainless steel drain plug
- Includes drilled and threaded 1/8" NPT port for optional temperature probe
- Limited lifetime warranty



2017+ Ford F150 with 10R80 Transmission

PART NO.	FINISH
328053100	Raw
328053110	Brushed
328053120	Black

Available in three finishes



Raw finish

Brushed finish

Black finish

Pan requires a clearance of 5.11" from the bottom of the transmission to the bottom of the transmission pan, check your vehicle prior to purchase for any clearance issues.

HEAVY-DUTY CAST ALUMINUM TRANSMISSION PAN

PPE's cast aluminum pan provides superior cooling over the plastic stock version. Cast aluminum construction with exterior fins transfer heat away from transmission internals. Cast aluminum dissipates heat better than plastic so fluid takes longer to heat up allowing for more stable transmission temperatures which help to extend transmission life.

The PPE Heavy-Duty 10R80 Transmission Pan also features our high-powered Neodymium magnet equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

Features:

- Compatible with OEM gasket
- External cooling fins reduce fluid temps
- Robust side ribs provide added strength
- Pan cast from high-strength aluminum alloy
- Flat bottom - solves the complete fluid drainage problem
- Includes Neodymium magnet equipped, billet 304 stainless steel drain plug
- Includes drilled and threaded 1/8" NPT port for optional temperature probe
- Limited lifetime warranty



Available in three finishes



Raw finish

Brushed finish

Black finish

2017+ Ford F150 and 2018+ Mustang with 10R80 Transmission

PART NO.	FINISH
328053200	Raw
328053210	Brushed
328053220	Black

HEAVY-DUTY CAST ALUMINUM DEEP TRANSMISSION PAN

PPE's cast aluminum, high-volume transmission pan is engineered to be a direct bolt-on replacement to the stock stamped steel pan. This easy upgrade has a 5" depth and holds 14 quarts of fluid - that's 7 quarts more than stock. The deep external fins radiate heat to keep fluid temps down. Thick side gussets add strength and provide rigidity.

PPE includes a powerful Neodymium magnet equipped billet 304 stainless steel 1" drain plug to help pull ferrous metal out of the internals before they can do damage. Kit comes complete with zinc coated socket head hardware and an 1/8" NPT plug which can be removed if you want to run a temperature sensor. This upgrade is compatible with the stock filter and you reuse the high-quality factory gasket.

Features:

- 14 quart capacity - 7 quarts more than stock
- High-grade, cast aluminum alloy with side gussets for added strength
- Includes Neodymium magnet equipped, billet 304 stainless steel drain plug
- Includes drilled and threaded 1/8" NPT port for optional temperature probe
- Limited lifetime warranty



Available in three finishes



Raw finish

Brushed finish

Black finish

2011-2019 Ford F250/F350/F450/F550 Super Duty - 6.7L Power Stroke Diesel

2011-2019 Ford Super Duty - 6.2L (gas) - with 6R140 Transmission

PART NO.	FINISH
328052000	Raw
328052010	Brushed
328052020	Black

Allen-head mounting bolts are included.

HEAVY-DUTY CAST ALUMINUM DEEP TRANSMISSION PAN

The new PPE Heavy-Duty DEEP Transmission Pan for the Ford 5R110 has greater oil capacity which results in lower operating temperatures and can help extend transmission life. Cast from high-strength aluminum for optimal heat dissipation. This new PPE pan features internal heat sinks and external cooling fins which transfer heat to keep your transmission running cool, keeping your operating temperatures in the right range.

Also included is a PPE Drain Plug machined from stainless steel, featuring a 17mm hex fitting for easy installation and removal. The PPE Drain Plug is fitted with a high-powered Neodymium magnet which extracts harmful ferrous metals out of your fluid before they do damage.

Features:

- 6 quarts additional capacity
- Robust side ribs provide additional strength
- External cooling fins and internal heat sinks reduce oil temps
- Includes Neodymium magnet equipped, billet 304 stainless steel drain plug
- Includes drilled and threaded 1/8" and 1/4" NPT port for optional temperature probe
- Limited lifetime warranty
- Retains use of factory oil filter Ford part number 3C3Z-7A098-AA



Available in three finishes



Raw finish

Brushed finish

Black finish

2003-2007 Ford F250/F350/F450/F550 Super Duty with 5R110 Transmissions

PART NO.	FINISH
328051000	Raw
328051010	Brushed
328051020	Black

Allen-head mounting bolts are included.



**HEAVY-DUTY
CAST ALUMINUM OIL PAN**

Cast from high-grade aluminum alloy and holding a full quart over stock, this pan is a perfect upgrade to the factory stamped steel or flimsy plastic versions.

We've addressed the major issues associated with the original Ford factory oil pan. Deep external cooling fins radiate heat and help the engine operate at much cooler temperatures than the stock pan. Thanks to its thick, cast aluminum construction, external fins and the addition of side gussets, this easy-to-install upgrade is much stronger and runs much cooler than the stock unit.

The PPE Oil Pan Kit includes a billet hardened stainless steel drain plug which contains a powerful Neodymium magnet that attracts and holds ferrous metal particles, keeping them from damaging your engine's vital internal components.

Features:

- One quart additional oil capacity
- Cast from high-strength aluminum alloy
- Side gussets provide additional strength
- 1/4" NPT threaded port for your oil gauge sensor
- Billet hardened stainless steel, Neodymium equipped drain plug with a copper washer
- Zinc-plated Allen head bolts
- Limited lifetime warranty



2011-2018 Ford 6.7L Power Stroke Diesel

PART NO.	FINISH
314052100	Raw
314052110	Brushed
314052120	Black



Available in three finishes



Raw finish

Brushed finish

Black finish



**HEAVY-DUTY
REPLACEMENT OIL COOLERS**

Get peace of mind and upgrade your problematic factory oil cooler with an updated and improved PPE Oil Cooler. These new updated PPE Oil Coolers are designed with larger and stronger internal passageways for improved oil and coolant flow. The PPE updated versions feature an additional row of oil passageways for greater heat dissipation. The end result is cooler oil supply to vital engine components allowing for less wear on injectors, turbo parts and an overall better working oil system.

Features:

- Promotes more effective engine oil cooling
- Reduces oil temperature feeding the EGR
- Supplies cooler oil to your injectors and high-pressure oil pump
- Viton O-ring and gasket kit included

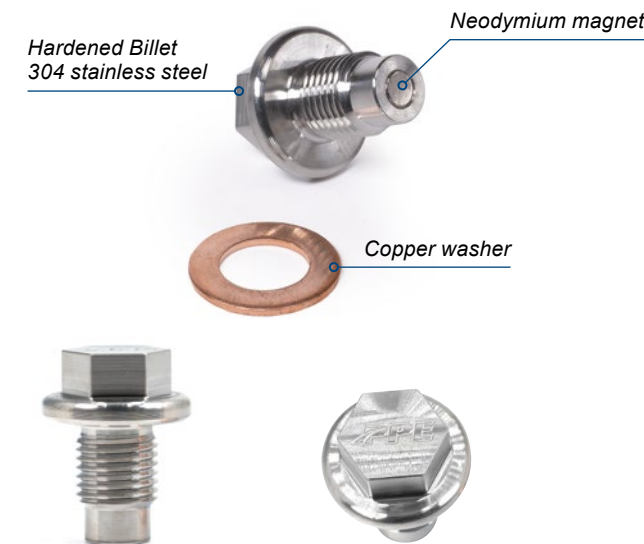
Ford Power Stroke

PART NO.	APPLICATION	DESCRIPTION
314030310	2003-2007 6.0L	with gasket
314030300	2003-2007 6.0L	without gasket
314030410	2007.5-2010 6.4L	with gasket
314030400	2007.5-2010 6.4L	without gasket

High-performance Viton O-Ring and gasket kit included.

**PPE HARDENED 304 STAINLESS STEEL
NEODYMIUM MAGNETIC ENGINE OIL PAN
DRAIN PLUG**

PPE's CNC machined, hardened Billet 304 Stainless Steel Oil Drain Plug comes equipped with a Neodymium magnet to pull any harmful ferrous metal contaminants from the oil, and helps extend the life of your engine. Make sure to have a PPE Billet Oil Drain Plug in hand for your next oil change. Comes equipped with a new copper washer.



PART NO.	APPLICATION	THREAD SIZE
114052001	PPE Engine Oil Pan	M14 x 20 - 1.5



HEAVY-DUTY CAST ALUMINUM REAR DIFFERENTIAL COVERS

Help keep your Ford rear differential running cool and clean with an upgraded differential cover from PPE. Made with cast aluminum for strength and optimum heat dissipation with internal heat-sinks and 3/4" external fins (the tallest on the market), help your fluid keep cool.

PPE's exclusive high-powered Neodymium magnet equipped fill plug will pull harmful ferrous metal particles right out of the oil before they have a chance to attack the bearings.

Features:

- Internal heat sinks and external cooling fins
- Zinc plated Allen head bolts
- Billet 304 stainless steel Neodymium magnet equipped fill plug
- Oil scraper design as used in professional racing oil systems
- Limited lifetime warranty

1986 to 2016 and 2017 with 12 bolts, Ford Excursion, F250/F350 (non dually), (10.25" and 10.5")

PART NO.	FINISH
338051000	Raw
338051010	Brushed
338051020	Black



Available in three finishes



Raw finish Brushed finish Black finish

HEAVY-DUTY CAST ALUMINUM FRONT DIFFERENTIAL COVERS

PPE's differential covers offer industry-leading fluid cooling. Keep your Ford front differential running cool and clean with an upgraded cover from PPE. Made from high-quality cast aluminum for strength and optimum heat dissipation.

Increased fluid capacity provides increased thermal stamina. This new cover is equipped with internal heat sinks and external cooling fins which increase the pan's surface area, helping dissipate heat. This keeps your differential oil running cooler, the oil will keep its viscosity, helping extend differential service life.

To help keep fluid cleaner, PPE includes our exclusive fill plug featuring a high-powered Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage.

Features:

- Increased oil capacity
- Adds additional strength to gear housing
- Cast from high-grade aluminum alloy
- Internal heat sinks and external fins for cooling
- Billet 304 stainless steel Neodymium magnet equipped fill plug
- Oil scraper design as used in professional racing oil systems
- Limited lifetime warranty

Ford Dana model 50 and Dana model 60 1986 to 2016 and 2017 with 12 bolts, Ford Excursion, F250/F350 (non dually), (10.25" and 10.5")

PART NO.	FINISH
338041000	Raw
338041010	Brushed
338041020	Black

Available in three finishes

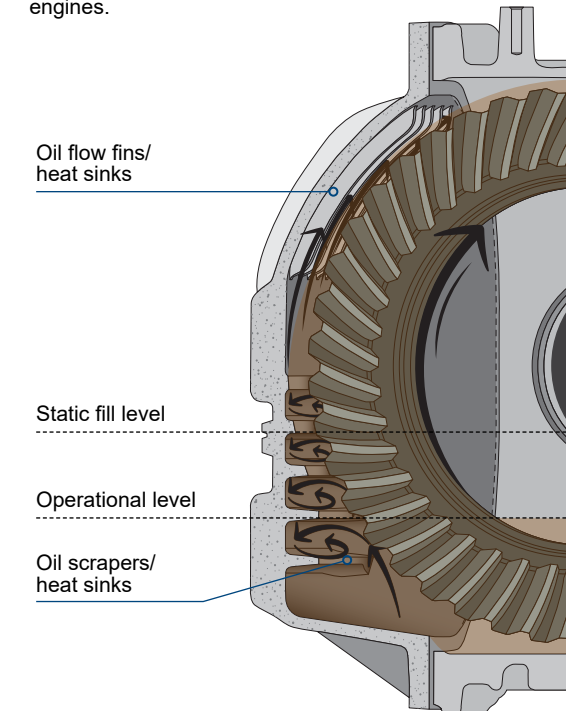


Raw finish Brushed finish Black finish



See how it works!

Scrapers draw excess oil off gear set, increasing MPG and increasing cooling ability of heat sinks similar to that of high-performance engines including NASCAR racing engines.



TURBO BOOST PRESSURE GAUGE WITH TURBO BOOST PRESSURE GAUGE TUBING KIT

PPE's boost gauge was specifically designed for stock and performance diesel engines. It measures turbo boost pressure from 0 to 60 psi. Featuring easy to read white lettering on a black face which highlights the red needle. Equipped with dimmable white LED illumination for nighttime visibility.



Full-sweep design measures from 0 to 60 psi

PART NO.	APPLICATION
516010000	Any boosted vehicle

Includes Turbo Boost Pressure Gauge Tubing Kit (516010100). Also available for purchase separately.

PYROMETER (EXHAUST GAS TEMPERATURE) GAUGE

Keeping your diesel engine within proper exhaust gas temperature (EGT) parameters is vitally important to ensuring the proper operation, reliability and longevity of your vehicle.



PPE's Pyrometer Gauge quickly shows just how hot your EGTs really are, allowing you to utilize all those upgrades while keeping your engine safe and out of the danger zone. This information also aids in programming fuel delivery so you can get the most power out of your diesel without damaging it in the process.

The easy to read white numbers on the black background highlight the OEM-style red pointer. Equipped with dimmable white LED illumination for nighttime visibility. (after) The easy to read white numbers on the black background highlight the OEM-style red pointer. The full-sweep design measures temperatures from 0 to 2,000 degrees Fahrenheit. When used correctly, PPE's Gauges will help extend the life of your drivetrain. Suitable for all makes and models, stock or modified.

Full-sweep design measures from 0 to 2,000 degrees

PART NO.	APPLICATION
517010000	For all makes and models, stock or modified.

Includes EGT extension harness (517010100) and EGT probe (517010200) with gauge bracket. Harness is 7.5 ft. in length.



HEAD STUD KIT

Engine builders understand the need for high-strength holding power and fasteners that are precision-engineered to handle the extreme stresses that high-performance diesel engines produce. The PPE Head Stud Kit exceeds industry standards required by performance engines. PPE Head Studs are precision center-less ground for accuracy. Thread-rolled to Mil-S-8879 specifications for increased strength while reducing stress at the threads.

Whether on the highway, off-road, strip or street, confidence comes from knowing these Head Studs exceed your needs. Highly recommended for boost levels 45 psi and higher. With an independently tested and verified tensile strength of over 231,900 psi, these Studs out-perform even the most renowned manufacturer.

Kits come complete with hardened parallel washers, nuts, and specially formulated assembly lube for uniform load distribution and accurate torque readings.

Features:

- Studs built specifically for high-performance applications
- 8740 Chromoly with black oxide finish, for protection from corrosion
- 20 studs, 20 flat washers and 20 nuts. Fastener assembly lube included

PART NO.	APPLICATION
318034400	2003-2007 Ford 6.0L Power Stroke



OVER THE RIVER AND THROUGH THE WOODS...

Cast products for superior cooling.



HEAVY-DUTY ALUMINUM OIL PAN

Whether your stock stamped steel oil pan has been damaged, rusted through, or you want a simple bolt-on upgrade with better performance, the PPE Cast Aluminum Oil Pan is your best choice.

Thick cast aluminum is far superior to stamped steel for cooling engine oil. PPE has engineered deep exterior fins that follow underside air flow and increase surface area to radiate heat better than stock. Cast gussets provide strength and rigidity to the housing.

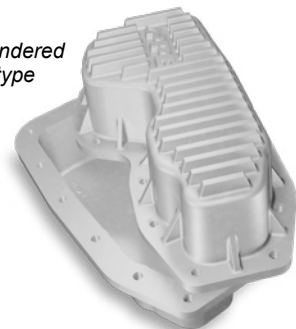
We've even upgraded the drain plug. Our exclusive PPE Neodymium Magnet Equipped Billet Hardened Stainless Steel Drain Plug is included. The powerful integrated magnet pulls ferrous metals out of the oil before they do damage. The factory plug has no magnet and provides no protection.

Upgrade performance, looks and quality with this easy install.



3D printed prototype test fit on vehicle

3D rendered prototype



Features:

- Thick, cast aluminum for superior heat dissipation
- Gussets add strength to the housing
- Cast fins increase surface area and use air flow to cool oil better than stock
- Neodymium magnet equipped billet stainless steel drain plug helps keep oil cleaner
- Available in Raw, Brushed and Black finishes
- Limited lifetime warranty

2011+ Grand Cherokee V6 Gas

PART NO.	FINISH
214052200	Raw
214052210	Brushed
214052220	Black

HEAVY-DUTY ALUMINUM TRANSMISSION PAN

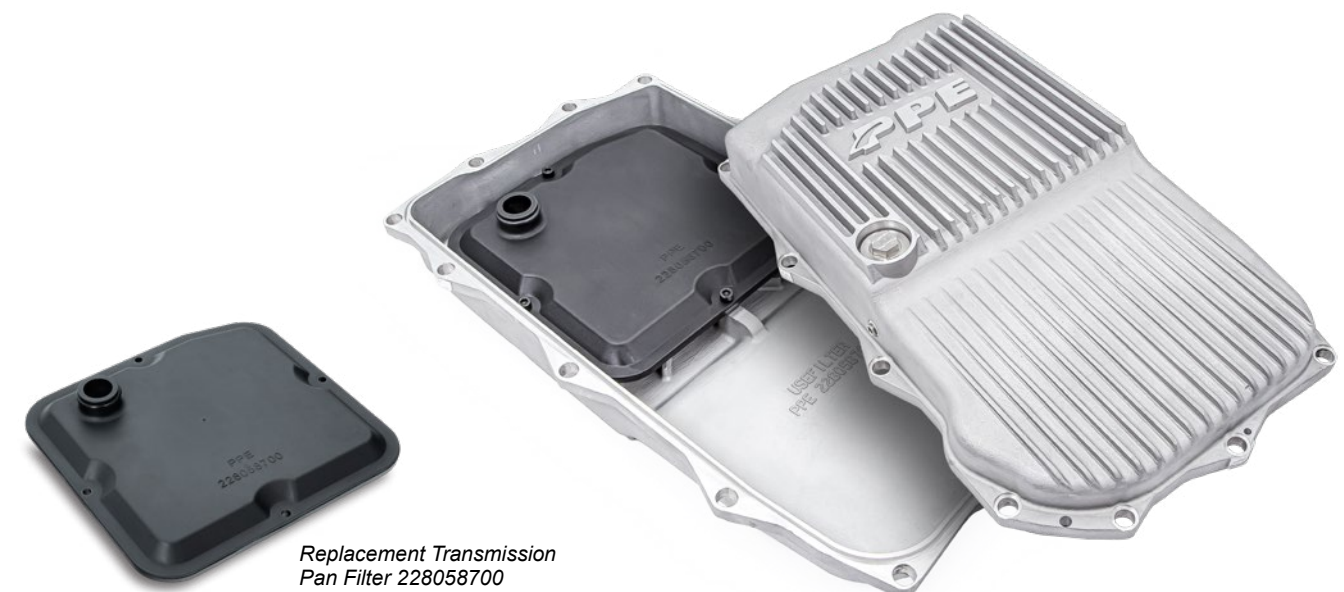
Specifically designed for the Jeep Grand Cherokee, PPE has engineered an exclusive removable and replaceable oil filter. That means unlike the factory part, there's no need to discard the filter pan assembly every time you service your Jeep's transmission. This eliminates the high cost of regularly replacing the factory pan. Now simply remove, replace filter and reinstall.

PPE's Heavy-Duty Transmission Pans hold extra fluid and are cast from high-strength aluminum for optimal heat dissipation. This pan features external cooling fins. These cooling fins, combined with the aluminum construction, promote reduced transmission fluid temperatures. Cooler fluid lubricates better which helps increase transmission service life and reduce service costs.

The PPE Heavy-Duty Aluminum Transmission Pan also features a high-powered Neodymium magnet equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

Features:

- Cast-aluminum construction
- Increased heat dissipation
- External cooling fins reduce oil temps
- 1.5 Quart increased fluid capacity
- Includes replaceable filter
- Neodymium magnet equipped billet stainless pulls harmful ferrous metal contaminants from the fluid
- 1/8" NPT temperature probe access port
- Limited lifetime warranty



Replacement Transmission Pan Filter 228058700

Available in three finishes



Raw finish

Brushed finish

Black finish

2014+ Grand Cherokee
3.0L V6, 3.6L V6 with 845RE/850RE Transmission
3.0L V6, 5.7L V8, 6.4L V8 with 8HP70/8HP75 Transmission

PART NO.	FINISH
228053400	Raw
228053410	Brushed
228053420	Black
228058700	Replacement Transmission Pan Filter





HEAVY-DUTY DEEP ALUMINUM TRANSMISSION PAN

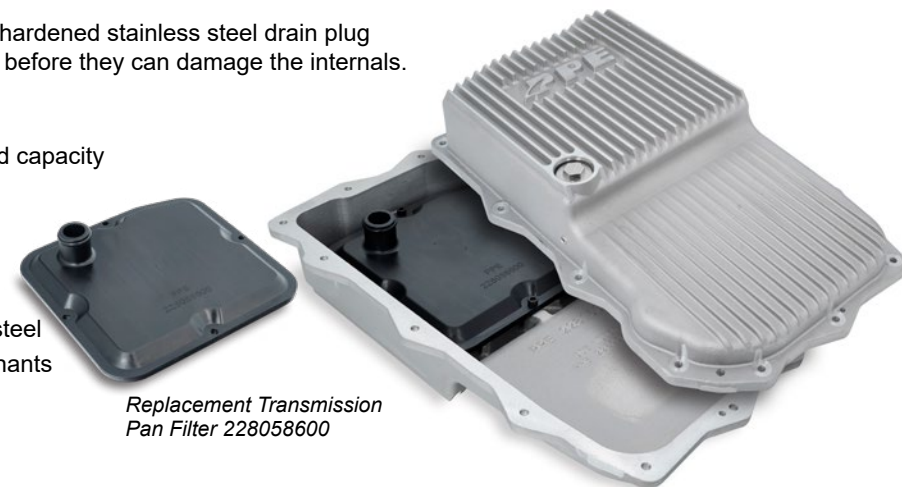
Light-to-light commuting, off-road driving and transporting the additional weight of heavy gear all create high heat inside your transmission. The stock stamped steel pan that comes with your Jeep is poor at heat dissipation. High heat scorches transmission clutches and breaks down fluid which shortens the service life of your rig.

PPE addresses these problems with thick, high-strength cast aluminum which optimizes cooling of transmission fluid much more rapidly than steel. Cast outer fins increase surface area for even greater cooling effects. An additional 2.6 quart capacity has been engineered into the design which increases thermal stamina and helps promote a longer service life.

A powerful Neodymium magnet equipped, billet, hardened stainless steel drain plug is included to pull ferrous metals out of your fluid before they can damage the internals.

Features:

- More than two-and-a-half quarts additional fluid capacity
- Cast-aluminum construction
- Increased heat dissipation
- Stainless steel drain plug
- Includes replaceable filter (228058600)
- Neodymium magnet equipped billet stainless steel drain plug pulls harmful ferrous metal contaminants from the fluid
- 1/8" NPT temperature probe access port
- Limited lifetime warranty



Replacement Transmission Pan Filter 228058600

Available in three finishes



Raw finish Brushed finish Black finish

2018+ Jeep JL/JT Wrangler (all models)

PART NO.	FINISH
228153000	Raw
228153010	Brushed
228153020	Black
228058600	Replacement Transmission Pan Filter

HEAVY-DUTY ALUMINUM TRANSMISSION PAN

Light-to-light commuting, off-road driving and transporting the additional weight of heavy gear all create high heat inside your transmission. The stock stamped steel pan that comes with your Jeep is poor at heat dissipation. High heat scorches transmission clutches and breaks down fluid which shortens the service life of your rig.

PPE addresses these problems with thick, high-strength cast aluminum which optimizes cooling of transmission fluid much more rapidly than steel. Cast outer fins increase surface area for even greater cooling effects. An additional 1.5 quart capacity has been engineered into the design which increases thermal stamina and helps promote a longer service life.

A powerful Neodymium magnet equipped, billet, hardened stainless steel drain plug is included to pull ferrous metals out of your fluid before they can damage the internals.

Features:

- One-and-a-half quarts additional fluid capacity
- Cast-aluminum construction
- Increased heat dissipation
- Stainless steel drain plug
- Includes replaceable filter (228058700)
- Neodymium magnet equipped billet stainless steel drain plug pulls harmful ferrous metal contaminants from the fluid
- 1/8" NPT temperature probe access port
- Limited lifetime warranty



Replacement Transmission Pan Filter 228058700

Available in three finishes

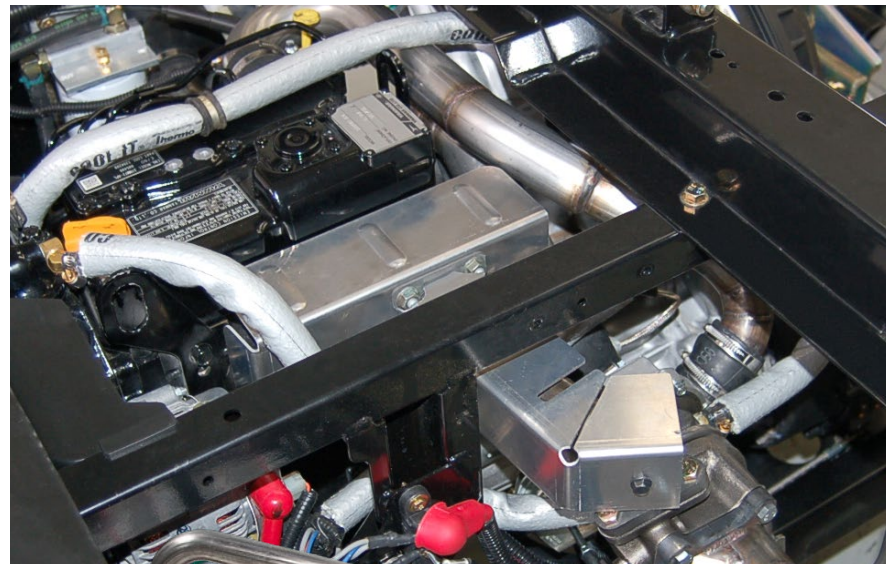


Raw finish Brushed finish Black finish

2018+ Jeep JL/JT Wrangler (all models)

PART NO.	FINISH
228153400	Raw
228153410	Brushed
228153420	Black
228058700	Replacement Transmission Pan Filter





POLARIS TURBO INSTALL KIT

When Polaris added a diesel powered model to their line of Ranger UTVs, it quickly became evident there was a need for more power. In response, PPE engineered a complete turbocharger system for it. For those Ranger owners (including the U.S. military) who want the benefits of a diesel engine but want and need more power.

Adding the PPE Polaris Ranger Turbo Kit to the stock Rangers 904cc 3-cylinder diesel engine will raise the horsepower rating by up to 9 hp. That is a 30+% increase over the stock Ranger's 24 hp output!

At the heart of the PPE kit, is a high-quality water and oil-cooled Garrett GT1241 turbo that produces 8 to 10 psi of power-giving pressure. The PPE Polaris Ranger Turbo Kit features precision TIG welded 304 stainless steel intake and exhaust tubes, and of the all parts/instructions necessary for an easy install. The innovative PPE design retains the factory box and muffler. It has been fully dyno tested for optimum reliability.

PART NO.	APPLICATION
616010086	2011-2014 Yanmar Polaris Ranger Diesels.

Tilt-Bed function becomes disabled on 2012-2014

TOP PERFORMANCE FOR YOUR UTV.



UNIVERSAL APPLICATIONS PERFORMANCE + UPGRADES

EXPLORE THIS SECTION

- 164 - 165 EXHAUST WRAP AND SHIELDS
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- 167 - 169 PERFORMANCE SILICONE HOSES
- 170 - 173 CLAMPS AND FLANGES
- 174 - 175 TUBING
- 176 - 177 LIFEPO4 BATTERIES



TITANIUM EXHAUST WRAP

PPE's Titanium Exhaust Wrap consists of tightly woven titanium fibers in convenient 1" or 2" sizes.

Exhaust wrap minimizes heat dissipation to surrounding components when wrapped around heat sources such as exhaust manifolds or turbo up-pipes. Wrapping turbo related exhaust parts also helps increase exhaust flow, which decreases turbo spool time, allowing for improved engine efficiency.

PPE's exhaust wrap has been tested to withstand temperatures in excess of 2,000 degrees. Keeping under hood temperatures lower helps increase performance and reliability. Cooler under hood temperatures will reduce heat-stress on the entire engine and will allow for a cooler, higher-density intake air charge.



PART NO.	SIZE (W x L)
578001015	1" x 15 ft. roll
578001025	1" x 25 ft. roll
578001050	1" x 50 ft. roll
578002015	2" x 15 ft. roll
578002025	2" x 25 ft. roll
578002050	2" x 50 ft. roll

SILICONE COATED FIBERGLASS

High-horsepower engines create excessive amounts of heat. Protect all your sensitive hoses, wires and cables from heat damage with PPE Heat Sleeves.

Made from silicone-coated, woven fiberglass material, these sleeves are capable of withstanding 500 degrees on a consistent basis, with short excursions to 2,200 degrees.

Heat Sleeves should be used anywhere sensitive items, such as vacuum/boost lines, fuel lines, electrical wiring, or coolant hoses come in contact with (or are in close vicinity to) hot engine parts, such as intercooler tubing, exhaust pipes, turbo housings or certain electrical modules.



PART NO.	SIZE (ID x L)
578010701	3/4" x 12"
578010765	3/4" x 65 ft.
578011001	1" x 12"
578011065	1" x 65 ft.
578011501	1.5" x 12"
578011565	1.5" x 65 ft.
578012001	2" x 12"
578012065	2" x 65 ft.
578012501	2.5" x 12"
578012565	2.5" x 65 ft.
578013001	3" x 12"
578013065	3" x 65 ft.
578013501	3.5" x 12"
578013565	3.5" x 65 ft.

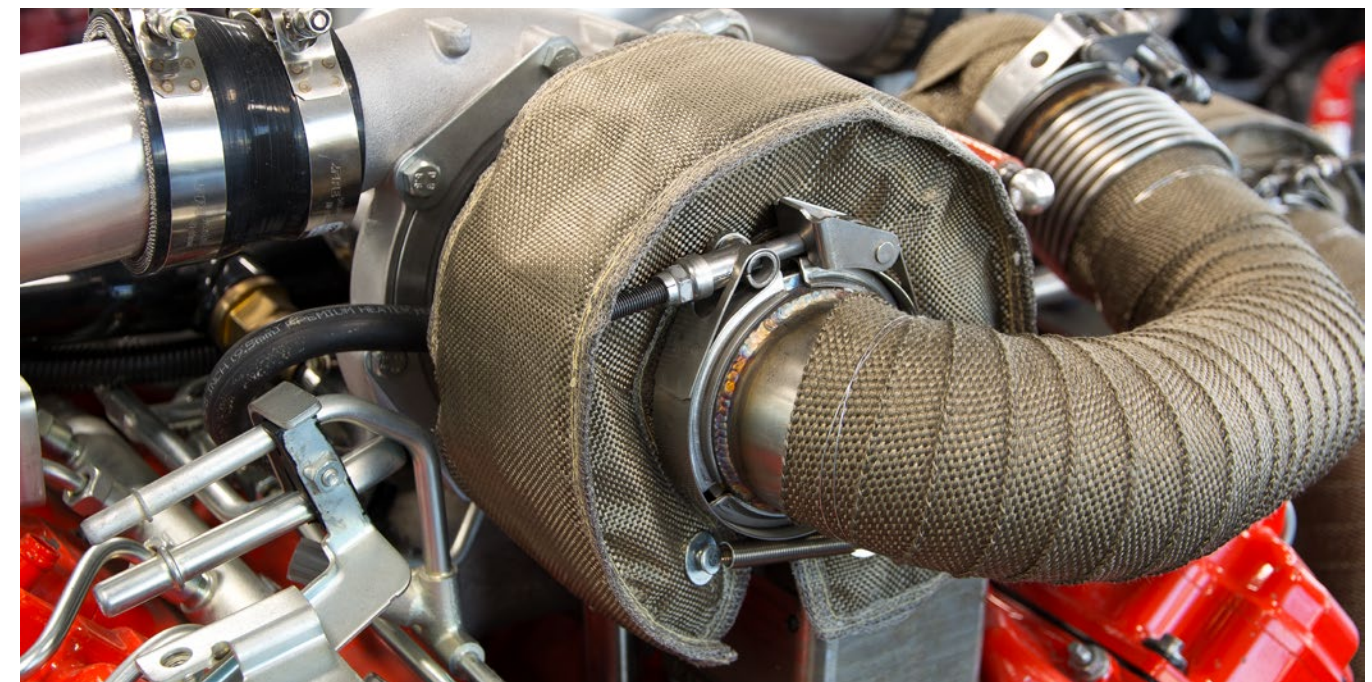
HIGH-PERFORMANCE TITANIUM WOVEN TURBO BLANKETS

Keep under hood temperatures down and reduce turbo lag with PPE's new High-Performance Titanium Woven Turbo Blankets. PPE's Turbo Blankets are constructed from high-temperature insulating padding and covered with a tough woven titanium outer layer. On the inside, the blankets feature a stainless steel mesh which helps the blanket keep its shape while still being able to withstand temperatures up to 2,300 degrees Fahrenheit. PPE's Blankets have built-in stainless steel anchoring hooks and free spring clips which keep the Blanket secure and allow for quick installation and removal.

Turbo heat blankets have many benefits: including keeping under hood temperatures down to protect hoses, wires, paint or anything else under the hood that may be sensitive to heat. Another benefit to cooler engine bay temperatures is keeping your charge air temperatures down by keeping heat out of the intercooler piping. This means lower EGTs, quicker turbo spool, more power, as well as improved engine efficiency. PPE's Blankets decrease turbo lag by keeping heat energy in the exhaust side of the turbo instead of letting it radiate into the engine bay.



PART NO.	APPLICATION
116150040	Small T4 Turbos (GT37/GT40, S300)
116150042	Large T4 Turbos (GT42/GT45, S400)
116150055	T6 Turbos (GT47/GT50/GT55, S500)



**38MM/44MM WASTEGATE (WATER-COOLED)
60MM WASTEGATE (AIR-COOLED)**

We use these ultra-compact, high-quality wastegates in our dual turbocharger system, but they can also be purchased individually for those who are building custom turbocharger applications.

Made from a combination of 347 stainless steel (housing) and a high temp NiCrFe based alloy (valve). These units feature a silicone NOMEX® reinforced diaphragm. They come with all necessary flanges and clamps.

For engines running extreme turbo drive pressure that require a longer duty cycle, the 38MM and 44MM can be water-cooled using supplied fittings

Features:

- All stainless steel hardware
- Black anodized aluminum actuator



516011000

PART NO.	DESCRIPTION
516010800	38MM Water-Cooled
516011000	44MM Water-Cooled
516011200	60MM Air-Cooled

304 STAINLESS STEEL EXHAUST BELLOWS

Features:

- Internally sleeved
- Aircraft-grade, 304 stainless steel



516201015

516201020

516201030

516201035

516201040

PART NO.	SIZE
516201015	1.5"
516201020	2.0"
516201030	3.0"
516201035	3.5"
516201040	4.0"

**TURBINE DISCHARGE FLANGES
GARRETT TURBO**

Features:

- Makes your custom down-pipe or compound turbo system more reliable
- Exhaust rings for Garrett GT42/45/55 and GT4094
- Adapt to standard exhaust tubing size



516210050

516210035

516210040

516210030

PART NO.	SIZE
516210030	3.0" 40 Series
516210035	3.5" 42 Series
516210040	4.0" 45 Series
516210050	5.0" 55 Series



**OVER
100
SHAPES
AND SIZES**

515303005

515303036

515404045

515303005

515303088

515303088

51554005

515353590

PERFORMANCE SILICONE HOSES

Each PPE Performance Silicone Hose is strengthened with 5 plies of NOMEX® reinforced fibers making them very tough. Fluorocarbon lining offers better lubricity (slippery and resistant to chemicals) and the silicone rubber construction ensures they can withstand constant boost pressures and temperatures from -76 degrees all the way to +437 degrees Fahrenheit. PPE silicone will maintain structural integrity even when subject to high boost pressures throughout the temperature range. In short, PPE Performance Silicone Hoses will not blow out like a stock hose will.

PPE's Silicone Hoses are resistant to fuel, oil and chemicals while also being UV and Ozone resistant. These hoses can handle the extreme exposure that heavy usages puts upon them. With multiple sizes and configurations, there is a PPE Performance Silicone Hose for every design application.

Drag racing and sled pulling place huge stress on your truck's silicone hoses in a very short period of time. PPE's hoses were designed to handle the rigors of increased pressures during racing and competition. Their performance tolerances make them an excellent upgrade for your daily driving and the extremes of towing heavy loads.

Features:

- Fluorocarbon lining resistant to oil, fuel and high temperatures
- Handles high-boost pressures
- Working pressure: 70 psi - BAR 4.8
- Burst pressure: 207 psi - BAR 14.3
- Higher flow and better lubricity than rubber
- UV and Ozone resistant

Full list of part numbers and styles available on the following page.





90 Degree Elbow Performance Silicone Hoses

PART NO.	SIZE (ID)	PPE T-BOLT CLAMP
515151590	1.5"	515225175
515202090	2.0"	515250200
515222290	2.25"	515275225
515252590	2.5"	515300250
515303090	3.0"	515350300
515353590	3.5"	515400350
515404090	4.0"	515450400
515454590	4.5"	515500450
515505090	5.0"	515500450

Straight Performance Silicone Hoses

PART NO.	SIZE (ID x L)	DESCRIPTION
515070736	0.75" x 36"	6mm 5-ply
515101036	1.0" x 36"	6mm 5-ply
515151536	1.5" x 36"	6mm 5-ply
515171736	1.75" x 36"	6mm 5-ply
515202036	2.0" x 36"	6mm 5-ply
515222236	2.25" x 36"	6mm 5-ply
515252536	2.5" x 36"	6mm 5-ply
515272736	2.75" x 36"	6mm 5-ply
515303036	3.0" x 36"	6mm 5-ply
515353536	3.5" x 36"	6mm 5-ply
515404036	4.0" x 36"	6mm 5-ply
515454536	4.5" x 36"	6mm 5-ply
515505036	5.0" x 36"	6mm 5-ply
515555536	5.5" x 36"	6mm 5-ply
515606036	6.0" x 36"	6mm 5-ply

Straight hoses are available from 3/4 in. to 6 in. widths and up to 36 in. lengths (in 1" increments).

45 Degree Elbow Performance Silicone Hoses

PART NO.	SIZE (ID)	PPE T-BOLT CLAMP
515151545	1.5"	515225175
515181845	1.875"	515250200
515202045	2.0"	515250200
515222245	2.25"	515300250
515252545	2.5"	515300250
515303045	3.0"	515350300
515353545	3.5"	515400350
515404045	4.0"	515450400
515454545	4.5"	515500450
515505045	5.0"	515550500

Reducers

PART NO.	SIZE	PPE T-BOLT CLAMP (S)
515302203	3.0" to 2.25" x 3.0" L	515325275 515350300
515302205	3.0" to 2.25" x 5.0" L	515325275 515350300
515302503	3.0" to 2.5" x 3.0" L	515325275 515350300
515302505	3.0" to 2.5" x 5.0" L	515325275 515350300
515353003	3.5" to 3.0" x 3.0" L	515325275 515350300
515353005	3.5" to 3.0" x 5.0" L	515400350 515350300
515403003	4.0" to 3.0" x 3.0" L	515450400 515350300
515403005	4.0" to 3.0" x 5.0" L	515450400
515403503	4.0" to 3.5" x 3.0" L	515450400
515403505	4.0" to 3.5" x 5.0" L	515450400
515504003	5.0" to 4.0" x 3.0" L	515600550 515500450
515504005	5.0" to 4.0" x 5.0" L	515600550 515500450
515554003	5.5" to 4.0" x 3.0" L	515650600 515500450
515554503	5.5" to 4.5" x 3.0" L	515600550 515650600
515554005	5.5" to 4.0" x 5.0" L	515500450 515600550
515554505	5.5" to 4.5" x 5.0" L	515500450 515650600
515555003	5.5" to 5.0" x 3.0" L	515600550 515650600
515555005	5.5" to 5.0" x 5.0" L	515600550 515650600
515604003	6.0" to 4.0" x 3.0" L	515500450 515650600
515604005	6.0" to 4.0" x 5.0" L	515500450 515650600
515605003	6.0" to 5.0" x 3.0" L	515600550 515650600
515605503	6.0" to 5.5" x 3.0" L	515600550 515650600
515605005	6.0" to 5.0" x 5.0" L	515600550 515650600
515605505	6.0" to 5.5" x 5.0" L	515600550 515650600

Note: Due to the 6mm wall thickness, hose clamps must be 1/2" larger diameter than hose ID for proper fit.



SILICONE HOSES BULK AND CUSTOM LENGTHS

Need to customize your water lines or coolant lines? PPE has developed Performance Silicone in your choice of 3/8", 1/2", 5/8" widths. Available in one foot increments and 100 meter bulk roll or customize to suit your specific needs in 1-foot lengths.

PART NO.	SIZE (ID x L)	DESCRIPTION
515010000	3/8" 100 meter bulk	2.5mm 1-ply
515010100	3/8" 1-foot increments	2.5mm 1-ply
515020000	1/2" 100 meter bulk	2.5mm 1-ply
515020100	1/2" 1-foot increments	2.5mm 1-ply
515030000	5/8" 100 meter bulk	3mm 1-ply
515030100	5/8" 1-foot increments	3mm 1-ply



FUEL / OIL HOSE - 5/8" 30R10

The two-layer construction, this "Immersion Rated" fuel hose does NOT have the same problem that most hoses have which is where the exterior of the fuel line disintegrates from constant exposure to corrosive fuel. It is reinforced with synthetic braiding for added durability. This fuel hose features 30R10 rated material throughout its construction, not just the inside - and is rated for both fuel and oil. PPE's 30R10 Fuel Hose is the perfect choice for automotive, agricultural, industrial, and marine applications where durability and performance are a necessity.

PART NO.	SIZE (ID x L)	DESCRIPTION
514585000	5/8" 50 feet bulk	30R10 Fuel/Oil Hose
514580100	5/8" 1-foot increments	30R10 Fuel/Oil Hose

Note: If ordering more than a one foot section at a time, use the "one foot" drop down method and increase the "quantity" to desired length. We will leave the hose in connective feet.

LT1 SERIES SILICONE INLET HOSE

The PPE Inlet hose is smooth inside and has a large radius bend. This 6mm 5ply design allows better airflow between air filter and throttle body.

The PPE inlet hose is reinforced with a stainless steel support wire that is embedded within the silicone layers. The support adds rigidity to the hose and prevents collapse.



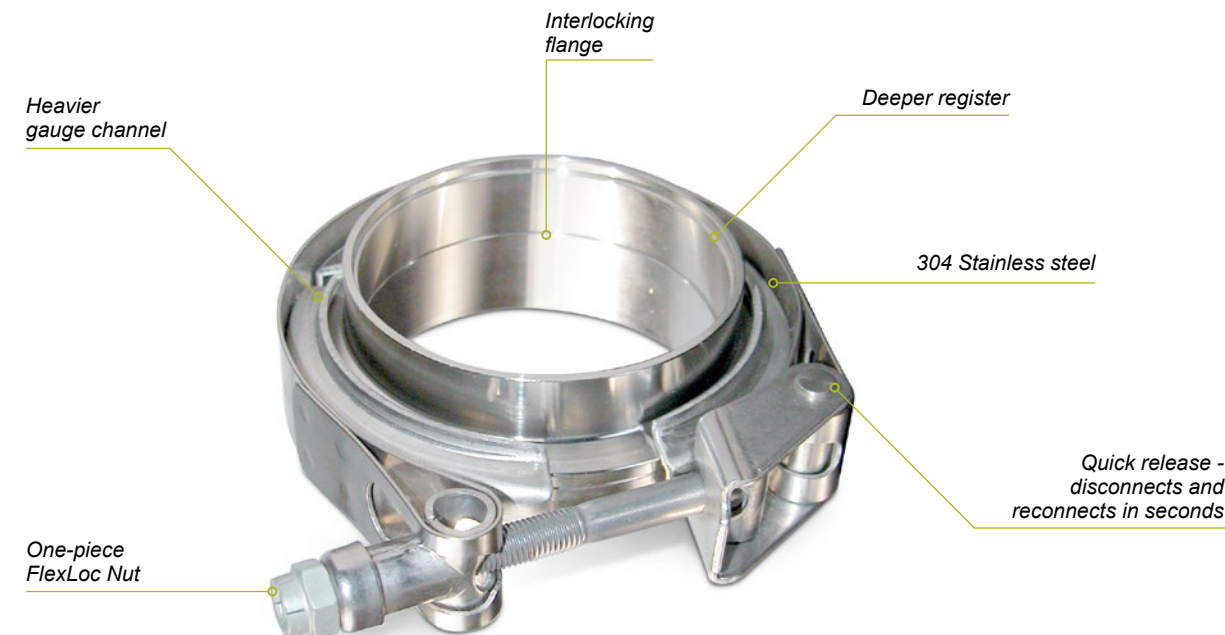
PART NO.	GM PART NO.	APPLICATION
115901400	25147210	GM Gas V8 LT1 Series Throttle Body (1992-1997)



QUICK-RELEASE 304 STAINLESS STEEL V-BAND CLAMPS AND 304 STAINLESS STEEL FLANGES

PPE's Quick Release (QR) Clamps and Flanges are manufactured with corrosion-resistant 304 stainless steel which offers better durability to the everyday extreme environmental conditions these parts are subjected to. Inside interlocking 304 stainless steel flanges and deeper outside register to ensure a secure, tight fit that are able to withstand high pressures.

PPE QR Clamps feature a quick-release mechanism with a one-piece FlexLoc Nut that is ideal for severe service uses and won't fail like inferior nylon nuts. Because a FlexLoc Nut has no nylon insert, it consistently provides better tensile strength than the leading "two-element" locknuts and is ideal for elevated temperature environments. PPE's deep register holds the V-band Flange securely until you are ready to release. Easily and securely reconnects in seconds.



517130000

PART NO.	SIZE	DESCRIPTION
517115000	1.5"	QR V-band Clamp
517115001	1.5"	V-band Flange Engine Side (M)
517115002	1.5"	V-band Flange Exhaust Side (F)
517115003	1.5"	QR V-band - 3 pc. Set (1C 1M 1F)
517115008	1.5"	QR V-band - 8 pc. set (2C 3M 3F)
517117500	1.75"	QR V-band Clamp
517117501	1.75"	V-band Flange Engine Side (M)
517117502	1.75"	V-band Flange Exhaust Side (F)
517117503	1.75"	QR V-band - 3 pc. Set (1C 1M 1F)
517117508	1.75"	QR V-band - 8 pc. set (2C 3M 3F)
517120000	2.0"	QR V-band Clamp
517120001	2.0"	V-band Flange Engine Side (M)
517120002	2.0"	V-band Flange Exhaust Side (F)
517120003	2.0"	QR V-band - 3 pc. Set (1C 1M 1F)
517120008	2.0"	QR V-band - 8 pc. set (2C 3M 3F)
517122500	2.25"	QR V-band Clamp
517122501	2.25"	V-band Flange Engine Side (M)
517122502	2.25"	V-band Flange Exhaust Side (F)
517122503	2.25"	QR V-band - 3 pc. Set (1C 1M 1F)
517122508	2.25"	QR V-band - 8 pc. set (2C 3M 3F)
517125000	2.5"	QR V-band Clamp
517125001	2.5"	V-band Flange Engine Side (M)
517125002	2.5"	V-band Flange Exhaust Side (F)
517125003	2.5"	QR V-band - 3 pc. Set (1C 1M 1F)
517125008	2.5"	QR V-band - 8 pc. set (2C 3M 3F)
517127500	2.75"	QR V-band Clamp
517127501	2.75"	V-band Flange Engine Side (M)
517127502	2.75"	V-band Flange Exhaust Side (F)
517127503	2.75"	QR V-band - 3 pc. Set (1C 1M 1F)
517127508	2.75"	QR V-band - 8 pc. set (2C 3M 3F)

PART NO.	SIZE	DESCRIPTION
517130000	3.0"	QR V-band Clamp
517130001	3.0"	V-band Flange Engine Side (M)
517130002	3.0"	V-band Flange Exhaust Side (F)
517130003	3.0"	QR V-band - 3 pc. Set (1C 1M 1F)
517130008	3.0"	QR V-band - 8 pc. set (2C 3M 3F)
517132500	3.25"	QR V-band Clamp
517132501	3.25"	V-band Flange Engine Side (M)
517132502	3.25"	V-band Flange Exhaust Side (F)
517132503	3.25"	QR V-band - 3 pc. Set (1C 1M 1F)
517132508	3.25"	QR V-band - 8 pc. set (2C 3M 3F)
517135000	3.5"	QR V-band Clamp
517135001	3.5"	V-band Flange Engine Side (M)
517135002	3.5"	V-band Flange Exhaust Side (F)
517135003	3.5"	QR V-band - 3 pc. Set (1C 1M 1F)
517135008	3.5"	QR V-band - 8 pc. set (2C 3M 3F)
517140000	4.0"	QR V-band Clamp
517140001	4.0"	V-band Flange Engine Side (M)
517140002	4.0"	V-band Flange Exhaust Side (F)
517140003	4.0"	QR V-band - 3 pc. Set (1C 1M 1F)
517140008	4.0"	QR V-band - 8 pc. set (2C 3M 3F)
517150000	5.0"	QR V-band Clamp
517150001	5.0"	V-band Flange Engine Side (M)
517150002	5.0"	V-band Flange Exhaust Side (F)
517150003	5.0"	QR V-band - 3 pc. Set (1C 1M 1F)
517150008	5.0"	QR V-band - 8 pc. set (2C 3M 3F)

Male (M), Female (F), Clamps (C): Available as individual pieces or in 3-piece and 8-piece kits in sizes 1.5", 1.75", 2.0", 2.25", 2.5", 2.75", 3.0", 3.25", 3.5", 4.0" and 5.0" Outer Diameter.



QUICK-RELEASE V-BAND CLAMPS AND FLANGES

Get all your exhaust connector needs met with just one kit. PPE's 8 Piece Interlocking V-band Exhaust Flange Set is perfect for those individuals who are building their own custom Street/Hot Rod/Race exhaust systems. It is also perfect for those occasional open-header days, such as race or pulling events, which require quickly separating the exhaust tubes. Some welding is required for installation.

Building your own custom exhaust system is easy, thanks to PPE's Interlocking Aluminum V-band Exhaust Flanges. (M-Engine Side, F-Exhaust Side).



PART NO.	SIZE (O.D.)	DESCRIPTION
517215001	1.5"	V-band AL Engine Side (M)
517215002	1.5"	V-band AL Exhaust Side (F)
517215003	1.5"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517215008	1.5"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517217501	1.75"	V-band AL Engine Side (M)
517217502	1.75"	V-band AL Exhaust Side (F)
517217503	1.75"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517217508	1.75"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517220001	2.0"	V-band AL Engine Side (M)
517220002	2.0"	V-band AL Exhaust Side (F)
517220003	2.0"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517220008	2.0"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517222501	2.25"	V-band AL Engine Side (M)
517222502	2.25"	V-band AL Exhaust Side (F)
517222503	2.25"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517222508	2.25"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517225001	2.5"	V-band AL Engine Side (M)
517225002	2.5"	V-band AL Exhaust Side (F)
517225003	2.5"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517225008	2.5"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517227501	2.75"	V-band AL Engine Side (M)
517227502	2.75"	V-band AL Exhaust Side (F)
517227503	2.75"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)

PART NO.	SIZE (O.D.)	DESCRIPTION
517227508	2.75"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517230001	3.0"	V-band AL Engine Side (M)
517230002	3.0"	V-band AL Exhaust Side (F)
517230003	3.0"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517230008	3.0"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517232501	3.25"	V-band AL Engine Side (M)
517232502	3.25"	V-band AL Exhaust Side (F)
517232503	3.25"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517232508	3.25"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517235001	3.5"	V-band AL Engine Side (M)
517235002	3.5"	V-band AL Exhaust Side (F)
517235003	3.5"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517235008	3.5"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517240001	4.0"	V-band AL Engine Side (M)
517240002	4.0"	V-band AL Exhaust Side (F)
517240003	4.0"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517240008	4.0"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
517250001	5.0"	V-band AL Engine Side (M)
517250002	5.0"	V-band AL Exhaust Side (F)
517250003	5.0"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
517250008	5.0"	QR 304 SS V-band - 8 pc. Set (2C 3M 3F)

Male (M), Female (F), Clamps (C): Available as individual pieces or in 3-piece and 8-piece kits in sizes 1.5", 1.75", 2.0", 2.25", 2.5", 2.75", 3.0", 3.25", 3.5", 4.0" and 5.0" Outer Diameter.



STANDARD 304 STAINLESS STEEL V-BAND CLAMPS WITH FLANGES KITS

PPE Standard 304 stainless steel V-band Clamps provide a tight seal to prevent leaks in applications where a V-band clamp is needed. PPE's Standard Clamps offer durability in the most demanding situations where high pressures are present. Flanges available in 304 stainless steel (SS) or aluminum (AL), single pieces or as part of a 3-piece or 8-piece kit.

Standard 304 Stainless Steel V-Band Clamps with 304 Stainless Steel Flanges Kits

PART NO.	ID	DESCRIPTION
517325000	2.5"	Clamp
517325003	2.5"	3 pc. set (1C 1M 1F)
517325008	2.5"	8 pc. set (2C 3M 3F)
517330000	3.0"	Clamp
517330003	3.0"	3 pc. set (1C 1M 1F)
517330008	3.0"	8 pc. set (2C 3M 3F)
517335000	3.5"	Clamp
517335003	3.5"	3 pc. set (1C 1M 1F)
517335008	3.5"	8 pc. set (2C 3M 3F)
517340000	4.0"	Clamp
517340003	4.0"	3 pc. set (1C 1M 1F)
517340008	4.0"	8 pc. set (2C 3M 3F)

Standard 304 Stainless Steel V-Band Clamps with Aluminum Flanges Kits

PART NO.	ID	DESCRIPTION
517430003	3.0"	3 pc. set (1C 1M 1F)
517430008	3.0"	8 pc. set (2C 3M 3F)
517435003	3.5"	3 pc. set (1C 1M 1F)
517435008	3.5"	8 pc. set (2C 3M 3F)
517440003	4.0"	3 pc. set (1C 1M 1F)
517440008	4.0"	8 pc. set (2C 3M 3F)

T-BOLT CLAMPS

A steel bolt and Nyloc nut for added strength and reliability, these clamps are easy to install and offer excellent clamping power for stock or high-performance applications.



X4
SPOT WELDS
FOR ADDED
STRENGTH

PART NO.	ID	RANGE
515150100	1.0"	31 - 36 mm
515175125	1.25"	37 - 42 mm
515200150	1.5"	43 - 49 mm
515225175	1.75"	47 - 55 mm
515250200	2.0"	54 - 62 mm
515275225	2.25"	63 - 71 mm
515300250	2.5"	70 - 78 mm
515350300	3.0"	81 - 92 mm
515325275	3.25"	79 - 87 mm
515400350	3.5"	98 - 106 mm
515375325	3.75"	86 - 94 mm
515450400	4.0"	106 - 114 mm
515500450	4.5"	121 - 129 mm
515550500	5.0"	133 - 141 mm
515600550	5.5"	147 - 155 mm
515650600	6.0"	159 - 167 mm





.080" Wall Thickness

ALUMINUM TUBING 12 GAUGE (.080")

PPE offers high quality, CNC pre-bent 6061 aluminum tubing in your choice of size and angle. Perfect for your custom applications. Great for intercooler pipe fabrication, intake pipe fabrication, or your own custom project needs.

PART NO.	DEGREE	DIAMETER	RADIUS
575150045	45°	1.5"	2.375"
575150090	90°	1.5"	2.375"
575150180	180°	1.5"	2.375"
575200045	45°	2.0"	3.0"
575200090	90°	2.0"	3.0"
575200180	180°	2.0"	3.0"
575225045	45°	2.25"	3.5"
575225090	90°	2.25"	3.5"
575225180	180°	2.25"	3.5"
575250045	45°	2.5"	4.0"
575250090	90°	2.5"	4.0"
575250180	180°	2.5"	4.0"
575275045	45°	2.75"	4.5"
575275090	90°	2.75"	4.5"
575275180	180°	2.75"	4.5"
575300045	45°	3.0"	5.0"
575300090	90°	3.0"	5.0"
575300180	180°	3.0"	5.0"
575350045	45°	3.5"	5.25"
575350090	90°	3.5"	5.25"
575350180	180°	3.5"	5.25"
575400045	45°	4.0"	6.0"
575400090	90°	4.0"	6.0"
575400180	180°	4.0"	6.0"

304 STAINLESS STEEL TUBING 16 GAUGE (.060")

PPE offers high quality, CNC pre-bent 304 stainless steel tubing in your choice of size and angle. Perfect for your custom applications. Great for exhaust fabrication, or your own custom project needs.

PART NO.	DEGREE	DIAMETER	RADIUS
576200045	45°	2.0"	3.0"
576200090	90°	2.0"	3.0"
576200180	180°	2.0"	3.0"
576225045	45°	2.25"	3.5"
576225090	90°	2.25"	3.5"
576225180	180°	2.25"	3.5"
576250045	45°	2.5"	4.0"
576250090	90°	2.5"	4.0"
576250180	180°	2.5"	4.0"
576275045	45°	2.75"	4.5"
576275090	90°	2.75"	4.5"
576275180	180°	2.75"	4.5"
576300045	45°	3.0"	5.0"
576300090	90°	3.0"	5.0"
576300180	180°	3.0"	5.0"
576350045	45°	3.5"	5.25"
576350090	90°	3.5"	5.25"
576350180	180°	3.5"	5.25"
576400045	45°	4.0"	6.0"
576400090	90°	4.0"	6.0"
576400180	180°	4.0"	6.0"
576500045	45°	5.0"	5.0"
576500090	90°	5.0"	5.0"



BILLET ALUMINUM COUPLERS WITH 1/8" NPT BUNG

Need to add an 1/8" NPT bung to your custom turbo system or intake tubing? PPE makes it easy with our Billet Aluminum Couplers. Featuring high-quality billet aluminum tubing with wide shoulders and angled ends ensure a secure fit. Plenty of room for any clamp width. Perfect for turbo ducting, water methanol systems, nitrous and gauge probes. Available in 2", 2.25", 2.5", 2.75", 3" and 4" OD x 5" lengths.

Features:

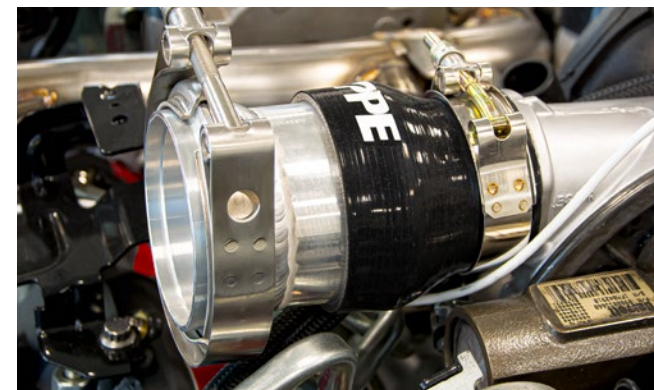
- Machined billet aluminum
- 1/8" NPT welded in bung

Custom Fabrications where a 1/8" NPT Fitting is Needed

PART NO.	SIZE (OD x L)
515900200	2" x 5"
515900225	2.25" x 5"
515900250	2.5" x 5"
515900275	2.75" x 5"
515900300	3" x 5"
515900400	4" x 5"

BILLET ALUMINUM TUBE END

Billet Tube Ends provide the strength needed to create a proper seal when the hose clamp is tightened around the silicone hose.



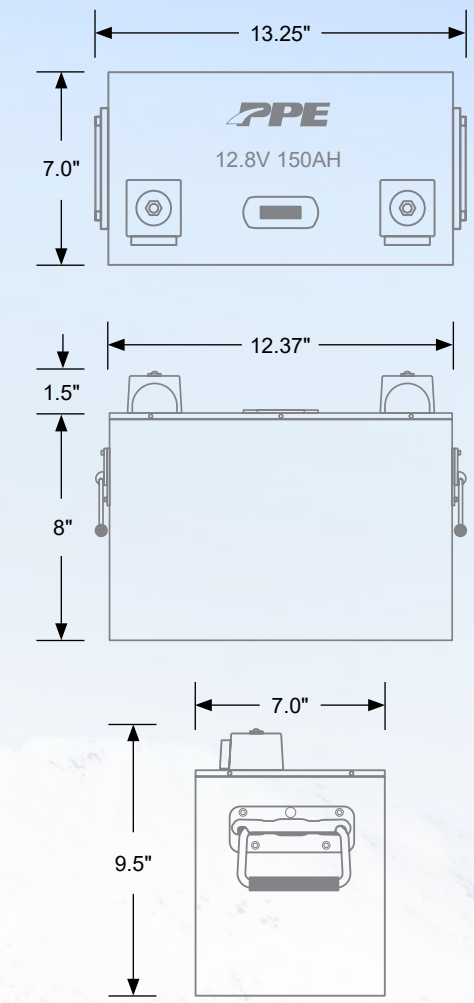
PART NO.	SIZE (OD x L)
515895300	3" x 2.5"



HARNESS THE POWER.

The superior performance of lithium iron phosphate batteries (LiFePO4) has made these dynamic power sources the number one choice for applications including back-up power, marine, solar, and recreational vehicles.

The LiFePO4 battery provides excellent thermal stability, safety characteristics, electrochemical performance and has a non-toxicity rating compared to other traditional deep-cycle battery options including lead-acid, absorbed glass mat (AGM) or lithium-ion (Li-ion). The PPE LiFePO4 battery offers a longer life cycle than even lithium-ion options, and has a very constant discharge voltage which stays close to 3.2V during discharge. This allows the cell to deliver virtually full power until it is discharged, and it can even eliminate the need for voltage regulation circuitry.



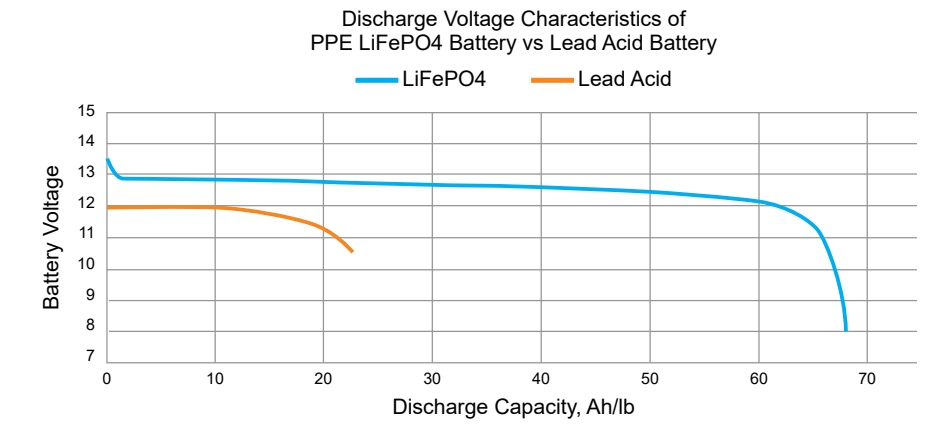
12.8 VOLT LiFePO4 BATTERIES

Housed in a brushed 304 stainless steel casing and equipped with heavy-duty terminals and an onboard backlit gauge that displays voltage and charging percentage. The proprietary onboard battery monitoring system (BMS) protects the battery from overcharging, and from discharging below 10% capacity. The BMS also protects the LiFePO4 from low temperature damage. If the unit is subjected to freezing temperatures the BMS automatically shuts down the battery as a safeguard.

Step up to superior performance with the PPE LiFePO4 lithium iron phosphate battery. With its unmatched power, life-cycle, safety from thermal runaway, long-term stability, and non-toxicity, the choice is clear: The PPE LiFePO4 battery is made for those who require the very best for their power supply.

Features:

- Onboard battery monitoring system (BMS)
- Heavy-duty terminals with insulator caps
- Brushed 304 stainless steel housing
- Excellent thermal stability, safety, and electrochemical performance
- Over charge and discharge protection
- Non-toxic composition



To be used to back-up power, marine, solar and recreational vehicles.

PART NO.	VOLTAGE	CAPACITY	WEIGHT	DIMENSIONS (W x H x D)
572128015	12.8V	150AH	45 lbs.	13.25" x 9.5" x 7"
572128020	12.8V	200AH	59 lbs.	19.25" x 9.5" x 7"
572128040	12.8V	400AH	92 lbs.	13.75"x14.5"x10"

Not for use as a starter battery.



GM SPECIFIC

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WARNING:
Cancer and Reproductive Harm



PARTS THAT HAVE EARNED A CALIFORNIA EXECUTIVE ORDER
PPE continues to lead the way with 50 states legal, environmentally friendly, fuel efficient products.
The "50 STATE" icon means that this part has earned an Executive Order (E.O.) from the California Air Resources Board.

E.O. No. D-701-2
Dual Fueler CP3 Pump Kit - Dodge/Ram

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316119504	2004-2007 Ford 6.0L	For use with 316119504 square EGR cooler (short spout)	144

E.O. No. D-701-12
Race Fuel Valve - GM - Dodge/Ram

PART NO.	APPLICATION	PAGE
113073000	2004.5-2010 GM 6.6L Duramax	17
113073000	2007.5-2018 Dodge Cummins 6.7L	123

E.O. No. D-701-13
Boost Increase Valve - GM

PART NO.	APPLICATION	PAGE
116030000	2001-2004 GM 6.6L Duramax	41

E.O. No. D-701-17
Dual Fueler CP3 Pump Kit - Dodge/Ram

PART NO.	APPLICATION	DESCRIPTION	PAGE
213003100	2007.5-2012 Dodge Cummins 6.7L	Kit with CP3 Pump	120
213003000	2007.5-2012 Dodge Cummins 6.7L	Kit without CP3 Pump	120
213004100	2013-2017 Dodge Cummins 6.7L	Kit with CP3 Pump	120
213004000	2013-2017 Dodge Cummins 6.7L	Kit without CP3 Pump	120

E.O. No. D-701-18
Transmission Upgrade Kits (Stage 4, Stage 5, Stage6) - Allison

PART NO.	APPLICATION	CONVERTER	PAGE
128034001	2001-2004 GM Allison 1000 Transmissions	Yes	86
128034002	2004-2005 GM Allison 1000 Transmissions	Yes	86
128034003	2006-2010 GM Allison 1000 Transmissions	Yes	86
128034201	2001-2004 GM Allison 1000 Transmissions	-	86
128034202	2004-2005 GM Allison 1000 Transmissions	-	86
128034203	2006-2010 GM Allison 1000 Transmissions	-	86
128035001	2001-2004 GM Allison 1000 Transmissions	Yes	86
128035002	2004-2005 GM Allison 1000 Transmissions	Yes	86
128035003	2006-2010 GM Allison 1000 Transmissions	Yes	86
128035201	2001-2004 GM Allison 1000 Transmissions	-	86
128035202	2004-2005 GM Allison 1000 Transmissions	-	86
128035203	2006-2010 GM Allison 1000 Transmissions	-	86
128036001	2001-2004 GM Allison 1000 Transmissions	Yes	87
128036002	2004-2005 GM Allison 1000 Transmissions	Yes	87
128036003	2006-2010 GM Allison 1000 Transmissions	Yes	87

E.O. No. D-701-18

Transmission Upgrade Kits (Stage 4, Stage 5, Stage6) - Allison

PART NO.	APPLICATION	CONVERTER	PAGE
128036201	2001-2004 GM Allison 1000 Transmissions	-	87
128036202	2004-2005 GM Allison 1000 Transmissions	-	87
128036203	2006-2010 GM Allison 1000 Transmissions	-	87

E.O. No. D-701-19

High-Flow Manifolds and Up-Pipes Kits - GM

PART NO.	APPLICATION	PAGE
116111000	2001 CA Certified Engines LB7 GM 6.6L Duramax	27
116111000	2001-2004 Fed. Certified Engines LB7/LLY GM 6.6L Duramax	27
116111200	2002-2004 CA Certified Engines LB7/LLY GM 6.6L Duramax	27
116111400	2004.5-2005 LB7/LLY GM 6.6L Duramax	27
116111600	2006-2007 LBZ GM 6.6L Duramax	27
116111800	2007.5-2010 LMM GM 6.6L Duramax	27
116112000	2011-2016 LML GM 6.6L Duramax	27

E.O. No. D-701-20

OEM Length Replacement Up-Pipes - GM

PART NO.	APPLICATION	PAGE
116120000	2001 CA and 2001-2004 FED GM 6.6L Duramax	24
116120204	2002-2004 CA LB7 GM 6.6L Duramax	24
116120405	2004.5-2005 LLY GM 6.6L Duramax	24
116120607	2006-2007 LLY/LBZ GM 6.6L Duramax	24
116120710	2007.5-2010 LMM GM 6.6L Duramax	24
116121115	2011-2016 LML GM 6.6L Duramax	24

E.O. No. D-701-22

Dual Fueler Kit - GM

PART NO.	APPLICATION	DESCRIPTION	PAGE
113061100	2001 LB7 GM 6.6L Duramax	Kit with CP3 Pump	14
113061000	2002-2004 LB7 GM 6.6L Duramax	Kit with CP3 Pump	14
113062000	2004.5-2005 LLY GM 6.6L Duramax	Kit with CP3 Pump	14
113063500	2006-2010 LBZ/LMM GM 6.6L Duramax	Kit with CP3 Pump	14
113063600	2011-2016 LML GM 6.6L Duramax	Kit with CP3 Pump	14
113064100	2001 LB7 GM 6.6L Duramax	Kit without CP3 Pump	14
113064000	2002-2004 LB7 GM 6.6L Duramax	Kit without CP3 Pump	14
113065000	2004.5-2005 LLY GM 6.6L Duramax	Kit without CP3 Pump	14
113067000	2006-2010 LBZ/LMM GM 6.6L Duramax	Kit without CP3 Pump	14
113067200	2011-2016 LML GM 6.6L Duramax	Kit without CP3 Pump	14

E.O. No. D-701-23

Diesel Fuel Lift Pump - GM - Dodge/Ram

PART NO.	APPLICATION	PAGE
113050000	2001-2016 GM 6.6L Duramax	21

E.O. No. D-701-25

Race Fuel Valve - GM

PART NO.	APPLICATION	PAGE
113072800	2001-2004 LB7 GM 6.6L Duramax	18

E.O. No. D-701-26

High-Flow Performance Intercooler - GM

PART NO.	APPLICATION	DESCRIPTION	PAGE
115040000	2001-2005 GM 6.6L Duramax		43
115040100	2001-2005 GM 6.6L Duramax	Pinned Intercooler	43
115041000	2006-2010 GM 6.6L Duramax		43
115041100	2006-2010 GM 6.6L Duramax	Pinned Intercooler	43

E.O. No. D-701-27

CP3 Pump Inlet Fitting - GM - Dodge/Ram

PART NO.	APPLICATION	SIZE	PAGE
113060501	2001-2017 GM 6.6L and Dodge 6.7L	3/8"	20
113060601	2001-2018 GM 6.6L and Dodge 6.7L	1/2"	20

E.O. No. D-701-28

CP3 High Flow Feed Line Kit - GM

PART NO.	APPLICATION	PAGE
113060800	2001-2010 GM 6.6L Duramax	20
113060802	2001-2010 GM 6.6L Duramax	20
113060900	2001-2010 GM 6.6L Duramax	20
113060902	2001-2010 GM 6.6L Duramax	20

E.O. No. D-701-29

Billet Aluminum Fuel Pickup Kit - GM

PART NO.	APPLICATION	PAGE
113051000	2001-2005 GM 6.6L Duramax	22
113053000		
113052000	2006-2008 GM 6.6L Duramax	22
113054000	2009-2010 GM 6.6L Duramax	22

E.O. No. D-701-30

3" Stainless Down Pipe - GM

PART NO.	APPLICATION	PAGE
117000400	2001-2004 Federal GM 6.6L Duramax	32
117000424	2001-2004 CA GM 6.6L Duramax	32
117000500	2004.5-2010 GM 6.6L Duramax	32
117000600	2011-2014 GM 6.6L Duramax	32
117000700	2014.5-2016 GM 6.6L Duramax	32

E.O. No. D-701-32

Release Valve Shim Kit - GM - Dodge/Ram

PART NO.	APPLICATION	PAGE
113072000	2004.5-2010 GM 6.6L Duramax	19
113072000	2007.5-2018 Dodge 6.7L Cummins	123

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Special thanks to Maher Boulos, Jason Gonderman, KJ Jones and the editorial crew at Truck Trend Network for sharing this amazing photograph with us and letting us use it in our PPE catalog. We were excited to serve as the staging area for the Truck Trend 2020 Truck Of The Year evaluation.

The Ripsaw EV3-F4

Originally designed and built for the military as a lightweight, go-fast super tank, Ripsaw proved to be the fastest dual-tracked vehicle ever developed. It has graced the covers of magazines such as Popular Science and won awards for invention of the year.

Since 2013, Howe and Howe Tech has spent thousands of man hours developing these beautiful yet rugged and refined consumer-based Ripsaw chassis for the high-end luxury market and extreme off-road enthusiast. From 22 inches of suspension travel, to luxurious interiors, and up to 1,500 horsepower, The Ripsaw platform is in league of its own when it comes to capability, speed, sheer adrenaline, and luxury.

The Ripsaw EV3-F4 (Extreme Vehicle - Floating Cockpit) series Ripsaw is a four-seater version of the EV3-F1. Designed with an astonishing power-to-weight ratio, with over 112 inches of track on the ground, the Ripsaw EV3-F4 stands as one of the world's most exhilarating off-road vehicles ever conceived.

Howe & Howe teamed with PPE (Pacific Performance Engineering) in California for their expertise in building this custom, 800 horsepower 6.6L Duramax diesel engine, paired with a PPE Stage5 built Allison transmission to transfer all that power to the wide rubber Ripsaw tracks.

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