



*Innovations in performance.*

**PPE**  
PACIFIC PERFORMANCE ENGINEERING

DIESEL · GAS · MARINE · UTV





# WHO WE ARE

*Founded in 1985, PPE (Pacific Performance Engineering) made engineering innovations the prime directive. Back then, our engineers significantly improved the horsepower and torque of the Duramax diesel platform with the PPE Duramaximizer. At this time there were no consumer performance options available for these new common-rail electronic diesel engines.*

*The Duramaximizer was tested in the towering dunes of Glamis, California. In an era when air- and water-cooled sand rails were commonplace, a single cab Chevy long-bed diesel truck fitted with paddle tires kicking up "rooster tails" in the hot desert sand dunes was a sight to behold. People gathered to see what they had never seen before. The diesel revolution had begun.*

*PPE engineers continued to innovate. They created performance products to enhance and improve the Duramax diesel platform, systematically finding and improving the "weak links" which would fail under the new high-horsepower and torque demands. Our engineers built on their successes by turning their sights on the Dodge and Ford diesel platforms. With each improvement, they learned how to make clean, efficient power while improving fuel mileage and the driver's experience.*

*Many more products would follow, with an eye on performance but always mindful of Federal regulations for air quality. PPE is proud to offer industry-leading performance that is, in many cases, 50 State Legal. We understand that our role in diesel performance enhancement also includes the responsibility of producing the least impact on our Earth. Each of our 50 State Legal products has been submitted to the California Air Resource Board for review and testing to ensure the increased performance comes with emissions levels that are Federally compliant.*

*Fast forward to today; PPE continues to produce diesel platform innovations. Simultaneously, PPE has expanded and is now focusing more than thirty years of experience to create a new line of intelligent, heavy-duty upgrades for the Jeep, Charger, Challenger, and many others. In every case, inferior factory parts are reimagined and manufactured with superior materials, increased performance, and functional features that aren't available from the factory.*

*All PPE products are engineered, manufactured, and tested to our rigorous standards. Every PPE product comes with a warranty from one year, to a limited lifetime warranty depending on the product.*

*This catalog is packed with performance products. Visit our site for the latest additions to the line of improvement options for your vehicle. Subscribe to get the latest news, events, and performance tips from our staff of enthusiasts.*





**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**

PART NO.	APPLICATION	DESCRIPTION	PAGE
213001100	2003-2004 Dodge Cummins 5.9L	Kit with CP3 Pump / with Kick Down	128
213002100	2004.5-2007 Dodge Cummins 5.9L	Kit with CP3 Pump	128
213001000	2003-2004 Dodge Cummins 5.9L	Kit without CP3 Pump / with Kick Down	128
213002000	2004.5-2007 Dodge Cummins 5.9L	Kit without CP3 Pump	128

**E.O. No. D-701-7**

**EGR Cooler - Ford**

PART NO.	APPLICATION	PAGE
316129503	2003-2004 Ford Power Stroke 6.0L	153
316129504	2004-2007 Ford Power Stroke 6.0L	153

**E.O. No. D-701-8**

**OEM Replacement Up-Pipes - Ford**

PART NO.	APPLICATION	DESCRIPTION	PAGE
316119503	2003-2004 Ford 6.0L	For use with 316119503 round EGR cooler (tall spout)	152
316119504	2004-2007 Ford 6.0L	For use with 316119504 square EGR cooler (short spout)	152

**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	17

**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	128
213003000	2007.5-2012 Dodge Cummins 6.7L	Kit without CP3 Pump	128
213004100	2013-2017 Dodge Cummins 6.7L	Kit with CP3 Pump	128
213004000	2013-2017 Dodge Cummins 6.7L	Kit without CP3 Pump	128

**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	90
128034002	2004-2005 GM Allison 1000 Transmissions	Yes	90
128034003	2006-2010 GM Allison 1000 Transmissions	Yes	90
128034201	2001-2004 GM Allison 1000 Transmissions	-	90
128034202	2004-2005 GM Allison 1000 Transmissions	-	90
128034203	2006-2010 GM Allison 1000 Transmissions	-	90
128035001	2001-2004 GM Allison 1000 Transmissions	Yes	90
128035002	2004-2005 GM Allison 1000 Transmissions	Yes	90
128035003	2006-2010 GM Allison 1000 Transmissions	Yes	90
128035201	2001-2004 GM Allison 1000 Transmissions	-	90
128035202	2004-2005 GM Allison 1000 Transmissions	-	90
128035203	2006-2010 GM Allison 1000 Transmissions	-	90
128036001	2001-2004 GM Allison 1000 Transmissions	Yes	88
128036002	2004-2005 GM Allison 1000 Transmissions	Yes	88
128036003	2006-2010 GM Allison 1000 Transmissions	Yes	88



**PARTS INTENDED FOR COMPETITION ONLY**

Those products in this catalog marked with this icon, indicates that said products can only be used exclusively in competition vehicles in a closed course and will not be driven on public roads.

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. LEGAL IN CALIFORNIA ONLY FOR RACING VEHICLES THAT MAY NEVER BE USED, OR REGISTERED OR LICENSED FOR HIGHWAY OR OFF-ROAD USE.

In order to purchase products marked with this icon: Per EPA guidelines PPE Inc. is required to as per performance of due diligence required to 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 closed course racing event in order to approve this purchase. 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.



**WARNING:**

Cancer and Reproductive Harm

**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	-	91
128036202	2004-2005 GM Allison 1000 Transmissions	-	90
128036203	2006-2010 GM Allison 1000 Transmissions	-	90

**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	2001-2005 GM 6.6L Duramax	22
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-701-31**

**Ported Fuel Rail Fitting - GM**

PART NO.	APPLICATION	PAGE
113071000	2004.5-2010 LLY/LBZ/LMM GM 6.6L Duramax	18

**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	131

**E.O. No. D-701-33**

**OEM Length Replacement High Flow Up-Pipes**

PART NO.	APPLICATION	PAGE
116122000	2004.5-2010 GM 6.6L Duramax	24

**E.O. No. D-701-34**

**High Flow Manifold and Up-Pipe Kit**

PART NO.	APPLICATION	PAGE
116112500	2017-2021 GM 6.6L Duramax	26

PPE is focused on adding environmentally friendly products.





## 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.

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## FORD

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

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## JEEP

**Categories:** Transmission Pans. Differential Covers. Oil Pans.

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## POLARIS

**Products:** Polaris Turbo Install Kit.

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## 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

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- 122 - 125 CUSTOM MODIFICATIONS

Quickly find what you're looking for.



# 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

Updates can be loaded right from your PC computer on to the PPE Xcelerator through the USB side plug. The USB-A to USB-B cable required for updates is not included.

## 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 (excluding 2001-2005 models)
- 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 LEVEL	HP INCREASE	TORQUE INCREASE
3	120	200
2	90	160
1	40	97

**Duramax Diesel - Economy Xcelerator**

PART NO.	APPLICATION
<b>111010000</b>	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) (excluding 2001-2005 models)
- 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 LEVEL	HP INCREASE	TORQUE INCREASE
5	225	335
4	160	240
3	120	200
2	90	160
1	40	97

**2006-2010 Duramax Diesel - Standard Xcelerator**

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

**Duramax Diesel - Standard Xcelerator**

PART NO.	APPLICATION
<b>111020000</b>	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
<a href="#">113061100</a>	2001 LB7
<a href="#">113061000</a>	2002-2004 LB7
<a href="#">113062000</a>	2004.5-2005 LLY
<a href="#">113063500</a>	2006-2010 LBZ/LMM
<a href="#">113063600</a>	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
<a href="#">113064100</a>	2001 LB7
<a href="#">113064000</a>	2002-2004 LB7
<a href="#">113065000</a>	2004.5-2005 LLY
<a href="#">113067000</a>	2006-2010 LBZ/LMM
<a href="#">113067200</a>	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
<a href="#">113061071</a>	816 Style
<a href="#">113061072</a>	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.

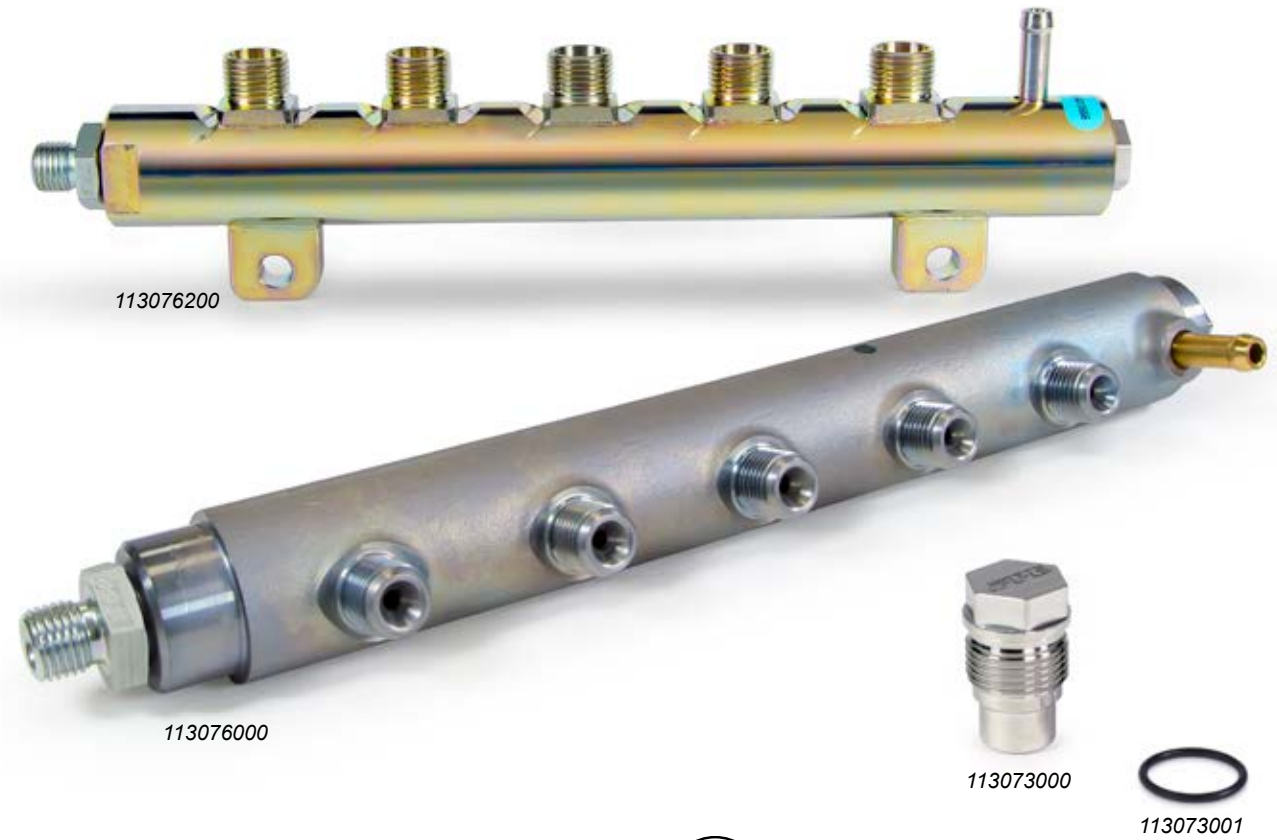
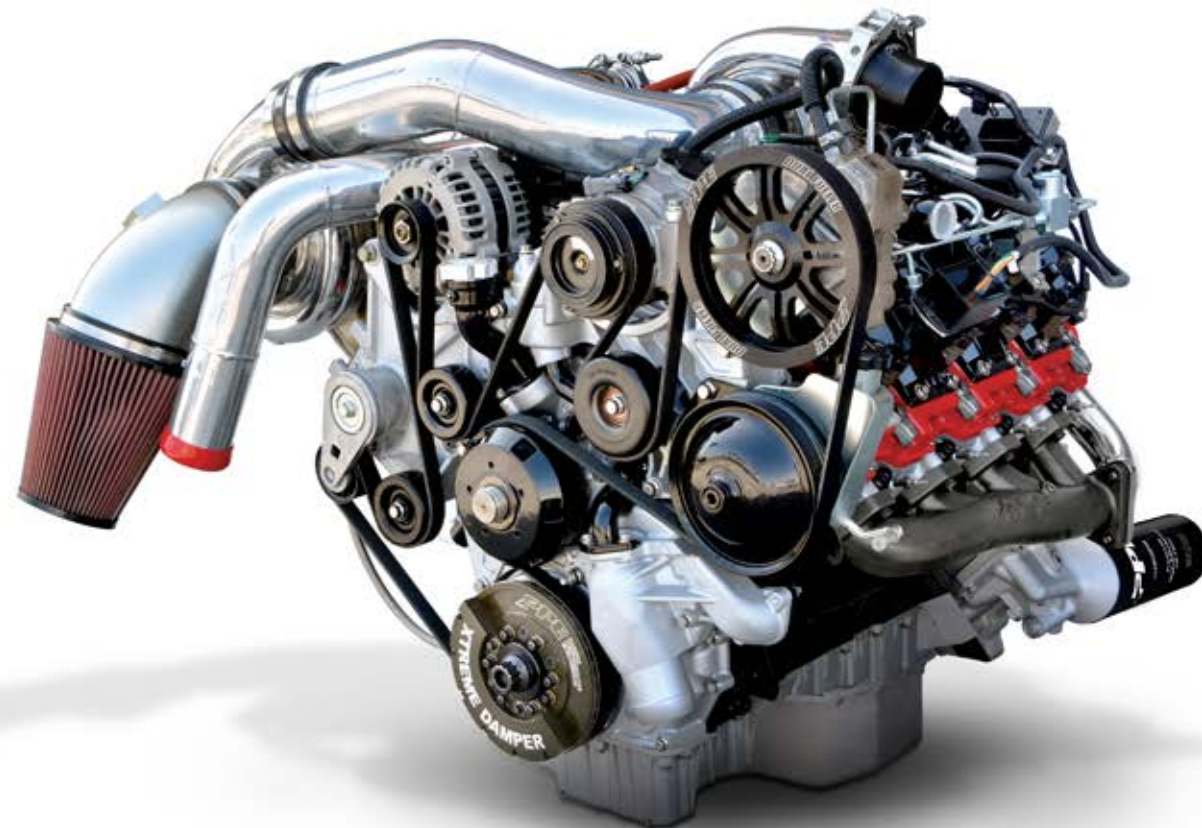
Made from machined billet aluminum and then anodized for strength and style, these updated PPE Dual Fueler Pulley Wheels feature a more robust design with machined spokes to dress up your engine bay.

PART NO.	STYLE
<a href="#">113061071</a>	816 Style
<a href="#">113061072</a>	7Y-Spoke Style
<a href="#">113061070</a>	Solid Face

**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
<a href="#">113061087</a>	2001 6.6L Duramax
<a href="#">113061490</a>	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
<a href="#">113076000</a>	2004.5-2005 LLY	Driver
<a href="#">113076050</a>	2004.5-2005 LLY	Passenger
<a href="#">113076200</a>	2006-2010 LBZ/LMM	Driver
<a href="#">113076250</a>	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
<a href="#">113073000</a>	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
<a href="#">113073001</a>	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
<a href="#">113072800</a>	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
<a href="#">113071000</a>	2004.5-2010 LLY/LBZ/LMM

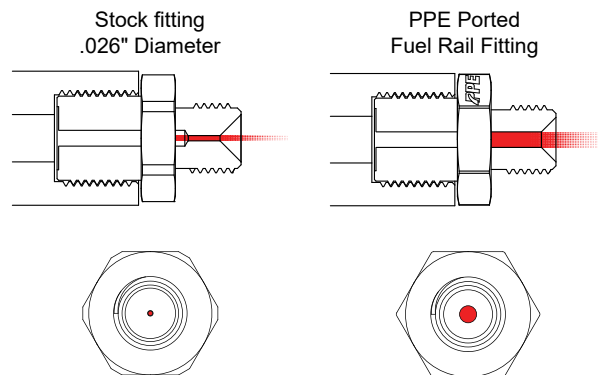
*This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-31*  
*Note: The driver side fuel rail feeds the passenger side rail. You may choose to install the driver side only, or both sides for maximum flow.*



**20X  
MORE FLOW  
THAN STOCK**

**See the difference:**

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



**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
<a href="#">113072000</a>	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*

**FUEL FILTER AIR BLEEDER SCREW**

Billet aluminum is a lot stronger and weather-resistant than plastic. That extra toughness means fewer problems over time. Replace your fragile OEM plastic air bleeder screw with the PPE Aluminum Air Bleeder Screw.

The damage and distortion that typically happens with a plastic screw from under hood temperatures and routine servicing will no longer be a problem because PPE's Air Bleeder Screw features billet aluminum construction and a Viton O-ring seal. The channel lets air escape without completely removing the screw.

**Features:**

- CNC machined billet aluminum. Anodized with black or gold finish.
- Viton O-ring included.
- Quick and easy installation with flat-head or nut driver.

PART NO.	COLOR	APPLICATION
<a href="#">113059520</a>	Gold	2001-2016 GM 6.6L Duramax
<a href="#">113059524</a>	Black	2001-2016 GM 6.6L Duramax
<a href="#">513081000</a>	Gold	2001-2016 GM 6.6L Duramax
<a href="#">513081100</a>	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
<a href="#">513080000</a>	2001-2011 GM 6.6L Duramax
<a href="#">513080012</a>	2012-2016 GM 6.6L Duramax
<a href="#">513080100</a>	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
<a href="#">113060900</a>	3/8" x 12"	Yes
<a href="#">113060800</a>	3/8" x 12"	No
<a href="#">113060902</a>	1/2" x 24"	Yes
<a href="#">113060802</a>	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



**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
<a href="#">113060501</a>	3/8"
<a href="#">113060601</a>	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.



**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
<a href="#">113050000</a>	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 FILTER MOUNT SPACER**

Make fuel filter changes easier with the PPE Fuel Filter Mount Spacer. From the factory, the lack of clearance around the fuel filter makes it nearly impossible to get a tool around the fuel filter for servicing. Save time and make routine fuel filter servicing easy with the PPE Fuel Filter Mount Spacer.

**Features:**

- CNC Machined out of billet aluminum
- 10 mm (3/8") of additional clearance
- Includes all factory style hardware needed for installation (Shorter screws for 2001-2010, longer screws for 2011-2016)
- No modifications required, quick and easy to install

PART NO.	APPLICATION	FINISH
<a href="#">113059300</a>	2001-2016 GM 6.6L Duramax"	Raw
<a href="#">113059320</a>	2001-2016 GM 6.6L Duramax"	Black







**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.

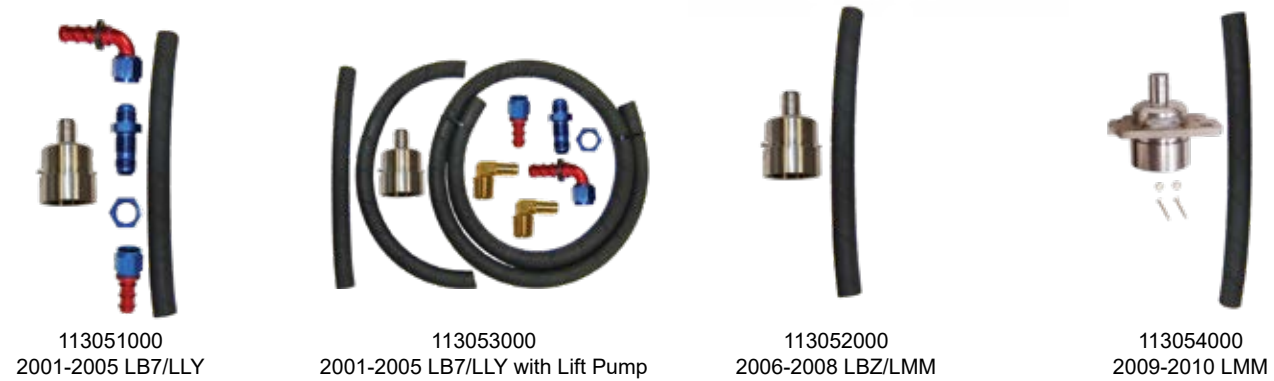
Easy installation on 2001-2005 models means only a single hole needs to be drilled. Later applications require no modification.

**Features:**

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

PART NO.	APPLICATION
<a href="#">113051000</a>	2001-2005 LB7/LLY
<a href="#">113052000</a>	2006-2008 LBZ/LMM
<a href="#">113054000</a>	2009-2010 LMM
<a href="#">113053000</a>	2001-2005 LB7/LLY w Lift Pump

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



**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:**

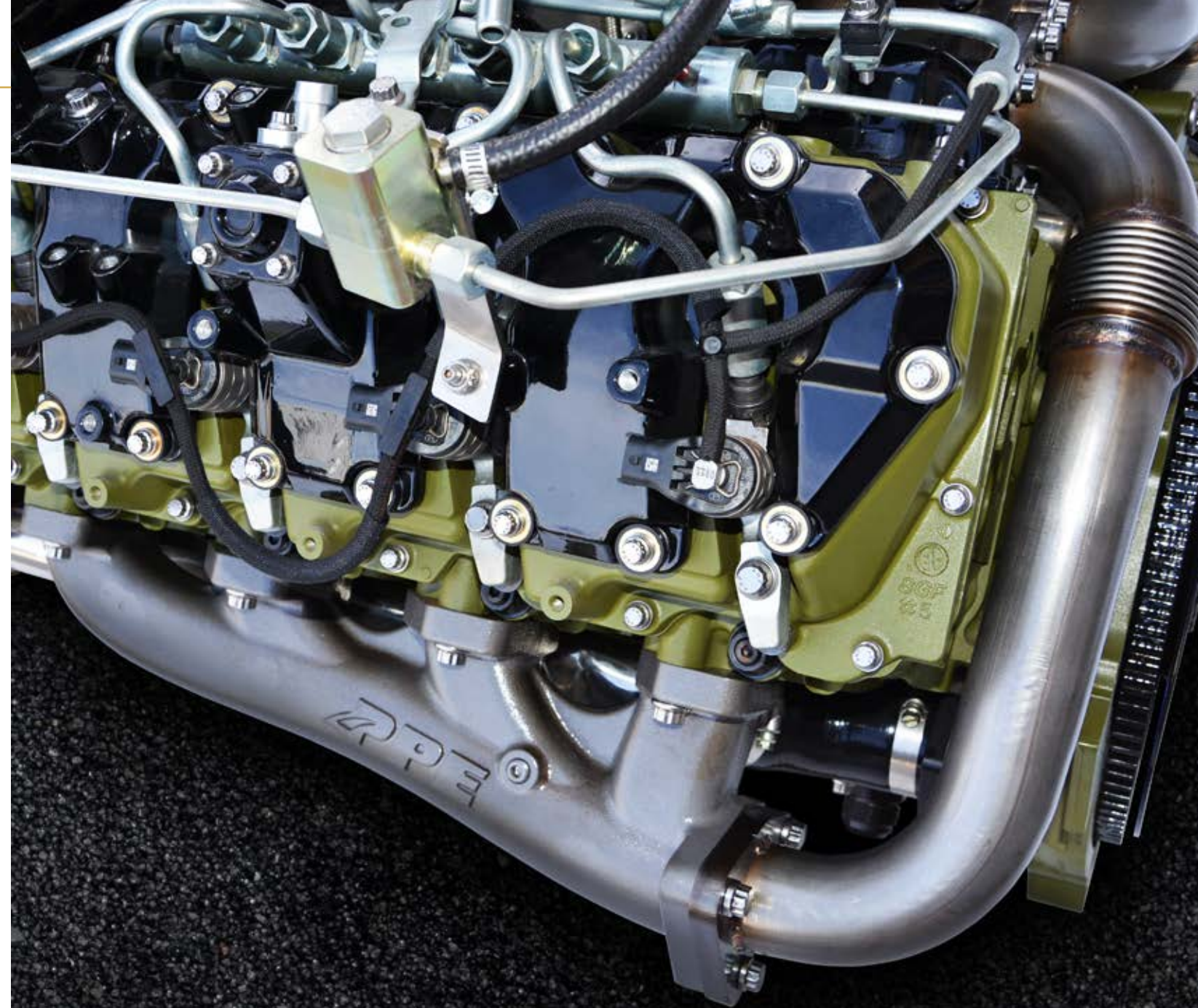
- 1/2" or 5/8" Fitting/Hose/Clamps for connecting the fuel tank to lift pump
- 1/2" Fitting/Hose/Clamps for connecting the lift pump to truck

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

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



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



# HIGH-FLOW MANIFOLDS AND UP-PIPES

FOR GM 6.6L DURAMAX DIESEL

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
<b>116120000*</b>	97223167 97223166	2001 CA / 2001-2004 FED
<b>116120204*</b>	97246389	2002-2004 CA LB7
<b>116120405*</b>	97303648	2004.5-2005 LLY
<b>116120607*</b>	97365041	2006-2007 LBZ
<b>116120710*</b>	98066018	2007.5-2010 LMM
<b>116121115*</b>	12657012	2011-2016 LML
<b>116122000**</b>	12676611 12688021	2017-2021 L5P

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

\*\*This product has earned an Executive Order (E.O.) from the California Air Resources Board. E.O. D-701-33

### 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

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.

### BOLT SET 01-16 UP-PIPES 12PC

#### Features:

- OEM design with washers
- Thread length increased to accommodate washer thickness
- Two bolts are 5 mm longer to accommodate downpipe mounting bracket
- Our design preserves thread engagement whereas other companies do not

PART NO.	APPLICATION
<b>116121500</b>	2001-2016 LB7, LLY, LBZ, LMM, LML



OEM heat shield mounts



Multi-layered 301 stainless steel creates a tight seal.



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

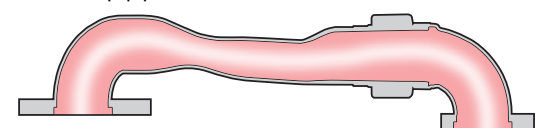


Kit shown:  
116122000 2017-Current L5P

### 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:  
116112500 2017-2021 L5P

Multi-layered 301 stainless steel creates a tight seal.

Multi-layered 301 stainless steel creates a tight seal.

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

# HIGH-FLOW MANIFOLDS AND UP-PIPES KITS



## 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
<a href="#">116111000*</a>	2001 CA GM 6.6L Duramax
<a href="#">116111000*</a>	2001-2004 FED GM 6.6L Duramax
<a href="#">116111200*</a>	2002-2004 CALB7 GM 6.6L Duramax
<a href="#">116111400*</a>	2004.5-2005 LLY GM 6.6L Duramax
<a href="#">116111600*</a>	2006-2007 LLY/LBZ GM 6.6L Duramax
<a href="#">116111800*</a>	2007.5-2010 LMM GM 6.6L Duramax
<a href="#">116112000*</a>	2011-2016 LML GM 6.6L Duramax
<a href="#">116112500</a>	2017-2021 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
<a href="#">116111020</a>	GM 6.6L Duramax	Silver Ceramic
<a href="#">116111022</a>	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.

See the difference:

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

Stock manifolds

PPE Manifolds







**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 good looks

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

PART NO.	APPLICATION	FINISH
<a href="#">116111020</a>	GM 6.6L Duramax	Silver
<a href="#">116111022</a>	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*



Optional silver ceramic finish



Optional 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:**

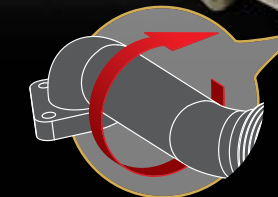
- Significant reduction in exhaust back-pressure
- Cast hi-sil moly iron high-flow manifold construction
- Up-Pipes have free-flowing 304 stainless steel, aircraft-grade inner liner bellows
- Up-Pipes are made from 304 stainless steel 11-gauge .120" wall, with a 2" outside diameter
- Built in bosses,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



**2001-2016 GM 6.6L Duramax**

PART NO.	APPLICATION
<a href="#">116111100</a>	2001-2016 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. F*





**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
<a href="#">116111810</a>	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
<a href="#">116016000</a>	2001-2016 GM 6.6L Duramax



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

**HIGH-PERFORMANCE UP-PIPE GASKETS**

This 4-piece kit is constructed of multi-layered 301 stainless steel. The rolled edges create a tight seal at the manifold and turbo inlets. PPE High-Performance Up-Pipe Gaskets are made to handle extreme changes in temperature. Fits both GM stock and PPE Up-Pipes.

PART NO.	GM PART NO.	APPLICATION
<a href="#">118062030</a>	97192618 97188685	2001-2016 GM 6.6L Duramax
<a href="#">118062050</a>	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
<a href="#">118062010</a>	98002804	2001-2016 GM 6.6L Duramax - OEM Size
<a href="#">118062020</a>	12676148	2001-2016 GM 6.6L Duramax - Oversize
<a href="#">118062012</a>	12676148 12677819	2017+ GM 6.6L Duramax Standard Port Stainless Steel Exhaust Manifold Gasket Set (3 pcs) L5P
<a href="#">118062013</a>	12676148-	2017+ GM 6.6L Duramax Standard Port Stainless Steel Exhaust Manifold Gasket Set (1 pcs) L5P
<a href="#">118062014</a>	12677819	2017+ GM 6.6L Duramax Gasket Manifold EGR Riser (1 pc) L5P
<a href="#">118062015</a>	12676148 12677819	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.

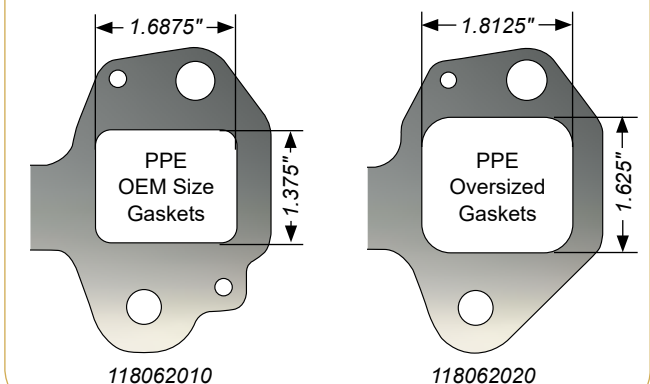


Kit shown:  
118062010 High Performance Manifold Gaskets  
2001-2016 GM 6.6L Duramax - OEM Size  
(Included with PPE Manifold and Up Pipes Kit - See Page 27 for fitment years)

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	2017-2021 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

**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*	2001-2016 OEM Length Up-Pipes
116110510	2001-2016 GM 6.6L Duramax



116110510

116110505



**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

**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.

Turbocharged 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.

Limited lifetime warranty on PPE 304 Stainless Steel Exhaust Systems. One-year warranty on optional Ceramic Black Coated Tip finish.

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

**CAT-BACK PERFORMANCE EXHAUST KIT - SINGLE EXIT**

Wake up your truck with the PPE Cat-Back Performance Exhaust Kit. With the PPE free-flowing exhaust system you will see increased fuel economy, reduced back pressure at the manifolds, more power, and quicker engine response.

This easy-to-install kit is made with high-quality, mandrel bent 304 stainless steel tubing which utilizes OEM hanger locations, replacing your OEM exhaust system from the catalytic converter back to the tailpipe. The 304 stainless steel tubing is available in your choice of raw or fully-polished finish. Tips are available in a ceramic coated black or a fully-polished finish

Limited lifetime warranty on PPE 304 Stainless Steel Exhaust Systems. One-year warranty on optional Ceramic Black Coated Tip finish.

**Features:**

- Complete, easy to install bolt-on system - no cutting or welding necessary
- 5" exhaust tip with 4" 304 stainless steel mandrel-bent tubing
- Interlocking 304 stainless steel woven exhaust bellows
- Limited lifetime warranty



117050020  
2020 - 2021+ GM 1500 3.0L LM2 Duramax

PART NO.	APPLICATION	FINISH
117050020	2020 - 2021+ GM 1500 3.0L LM2 Duramax Crew Cab/Short Bed with 147.4" wheelbase Extended Cab/Standard Bed with 147.4" wheelbase Crew Cab/Standard Bed with 157" wheelbase	Raw w/ Black Tip



117020100  
Replaces long, stock, restricted L5P exhaust pipe

**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.



117021500

Fits over the stock exhaust tip

**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





# 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
<a href="#">116554200</a>	55/42 Big Race Turbo Kit
<a href="#">116554500</a>	55/45 Big Race Turbo Kit

### 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
- Braided stainless steel lines

## 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.

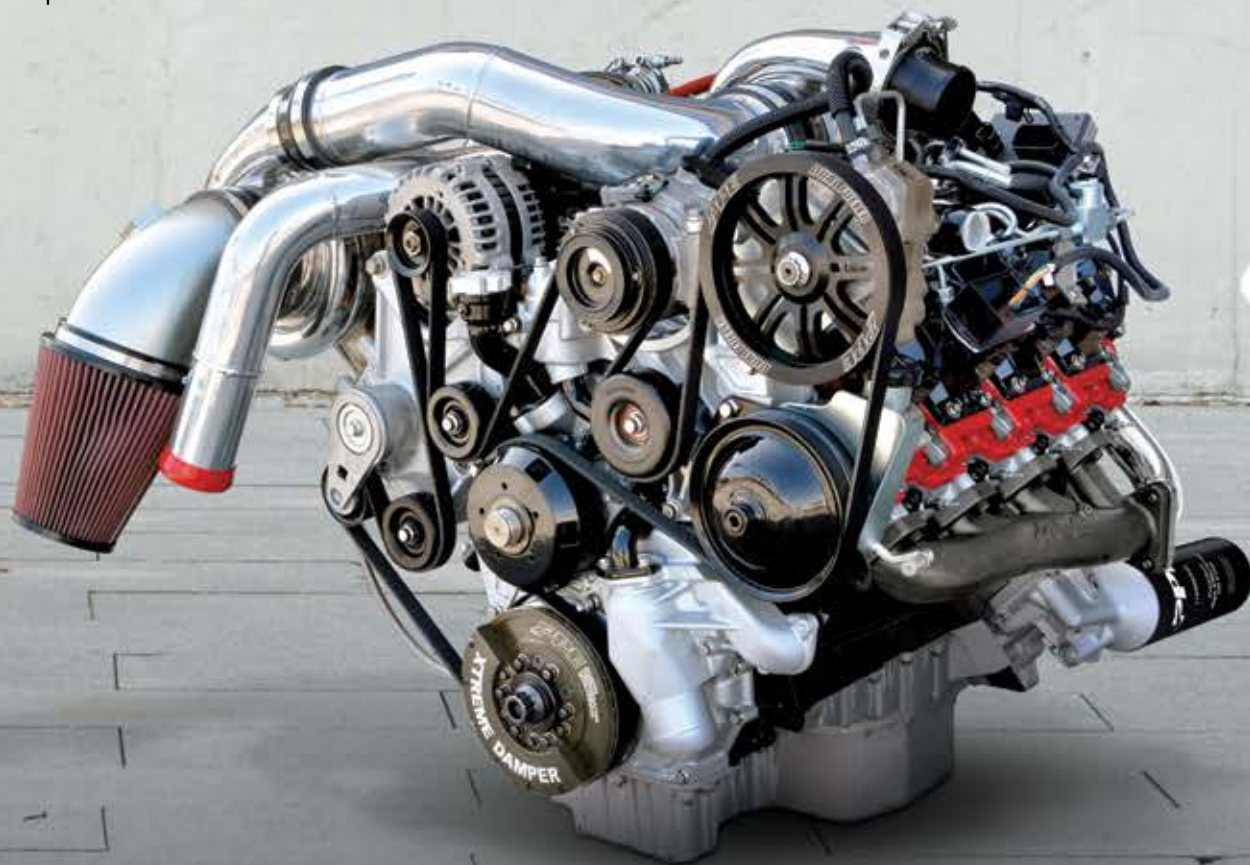
The PPE compound turbo system does all this and still retains A/C and heater functionality. This way you can be comfortable while smoking the competition!

### 45/40 Compound Turbo Kit

PART NO.	APPLICATION
<a href="#">116454000</a>	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 is 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

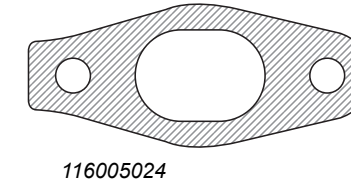
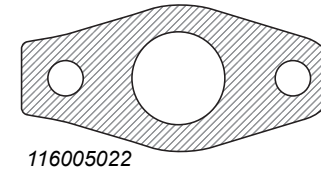
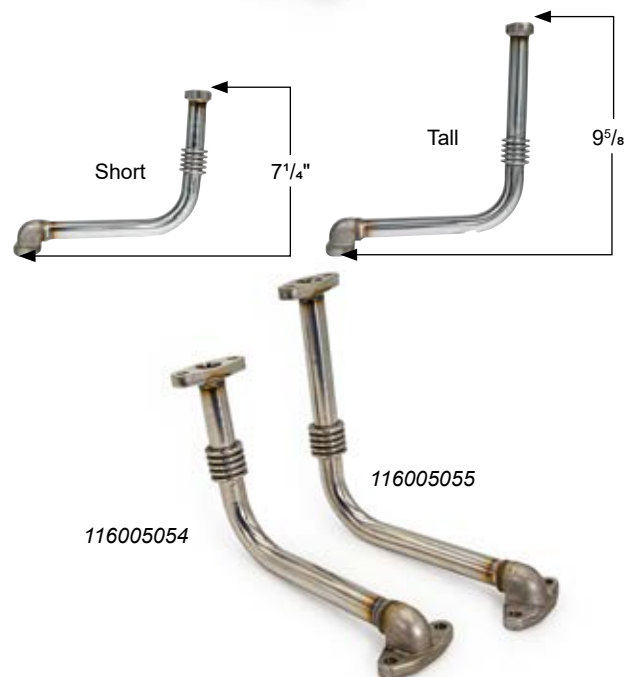
Note: 2001-2004 LB7 applications will need pedestal and turbo flange modification to clear the Intake Runner



**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

**TURBO RESONATOR DELETE**

PPE Turbo Resonator Delete replaces the restrictive factory turbo resonator. This easy bolt-on upgrade allows for cooler, less restricted air to enter the intercooler system. The CNC machined billet 6061-T6 aluminum construction has a steel retainer clip and a Viton O-ring.

**Features:**

- Easy bolt-on install, no tuning required
- CNC machined billet 6061-T6 aluminum
- Viton O-ring
- Steel retainer clip

PART NO.	APPLICATION
115020200	2020-2021 GM Silverado 1500 3.0L





**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.

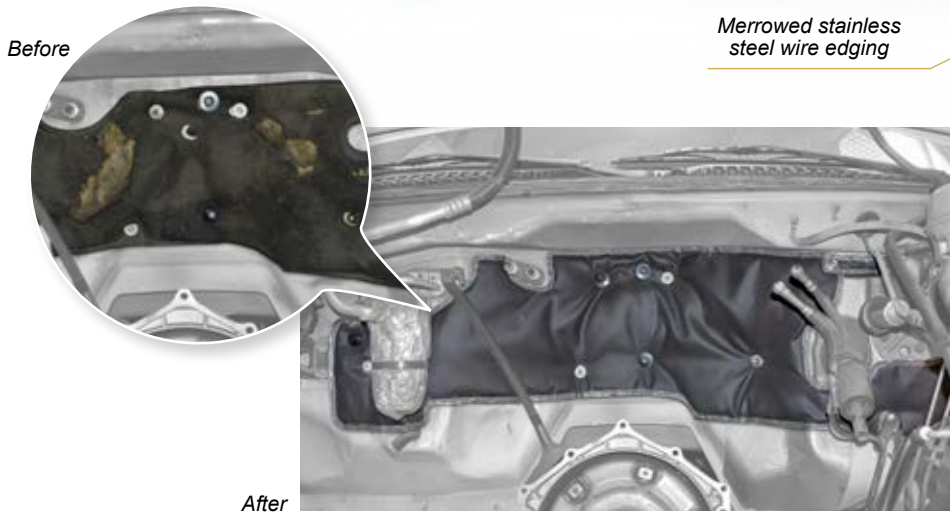
Time to upgrade your tattered, dirty firewall insulation with the brand new PPE Insulator Firewall. Create a barrier between you and the heat on your GM Truck/SUV with this custom-fit replacement.

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
<b>149000105</b> Black	1999-2006 Sierra/Silverado – 1500/2500/3500 2000-2006 Suburban, Tahoe, Yukon 2001-2006 and Sierra/Silverado with GM 6.6L Duramax 2007 Sierra/Silverado Classic 1500/2500/3500 – GM Gas and GM 6.6L Duramax
<b>149000124</b> Gold	1999-2006 Sierra/Silverado – 1500/2500/3500 2000-2006 Suburban, Tahoe, Yukon 2001-2006 and Sierra/Silverado with GM 6.6L Duramax 2007 Sierra/Silverado Classic 1500/2500/3500 – GM Gas and GM 6.6L Duramax
<b>149000135</b> Silver	1999-2006 Sierra/Silverado – 1500/2500/3500 2000-2006 Suburban, Tahoe, Yukon 2001-2006 and Sierra/Silverado with GM 6.6L Duramax 2007 Sierra/Silverado Classic 1500/2500/3500 – GM Gas and GM 6.6L Duramax

Can be installed without removing engine.

Reduced engine heat and noise entering the cab



Temperature resistant up to 1,290°F



**BATTERY HEAT SHIELD**

**Features:**

- Non-conductive, heat-reflective outer layer
- Padded, insulated liner surrounds battery
- Heavy-duty stitching
- Wide hook-and-loop fastening panels
- Flap covers and protects terminals
- Fits most batteries

PART NO.	APPLICATION
<b>149002000</b> Gold	2001-2007 GM Duramax LB7, LLY, LBZ Fit group 24, 34, 36R, 40R, 41, 64, 74, 78, 91, 98R Batteries with side terminals. Equivalent to batteries with 32.5" – 37" circumference, 10" width, and with side terminals
<b>149002100</b> Gold	07.5-20 GM Duramax LMM, LML, L5P Fit group 34, 40R, 41, 47, 48, 50, 53, 58, 59, 78, 90, 91, 98R batteries Equivalent to batteries with 33" - 38.25" circumference, 6.75" - 8" height.



**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 studded 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
<b>115040000</b>	2001-2005 LB7/LLY
<b>115040100</b>	2001-2005 LB7/LLY Pinned Intercooler
<b>115041000</b>	2006-2010 LBZ/LMM
<b>115041100</b>	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
- Limited lifetime warranty



115053520

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

**Features:**

- Limited lifetime warranty



115051500



115051200

PART NO.	APPLICATION	FINISH
<a href="#">115051200</a>	2006-2010 LBZ/LMM	Polished
<a href="#">115051500</a>	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
<a href="#">415040300</a>	3" Duct
<a href="#">415040350</a>	3.5" Duct



415040300



115020120



115020000

### ALUMINUM INTAKE TUBE

The PPE Intake Tube replaces the restrictive and plastic factory intake tube. The PPE Intake Tube eliminates the factory resonator which in turn reduces air flow restrictions and increases the air flow entering your turbo.

All hardware and couplers are provided. High quality silicone couplers and premium hose clamps will improve the look under the hood

**FEATURES:**

- Easy to install, No tuning requires
- Mandrel Bent Tubing
- Reduces factory restrictions and increases air flow
- Limited lifetime warranty

PART NO.	APPLICATION	FINISH
<a href="#">115020100</a>	2020+ Duramax	Raw
<a href="#">115020120</a>	2020+ Duramax	Black
<a href="#">115020000</a>	2017-2019 Duramax	Raw
<a href="#">115020020</a>	2017-2019 Duramax	Black

### TURBO INLET PLUG

Dress down your engine bay and eliminate that turbo resonator chunk of plastic. Made from billet aluminum and available in anodized raw, black or gold finishes and equipped with a double O-ring for a tight seal. This easy to install part replaces the stock resonator to clean up your engine bay.

**Features:**

- Solid billet aluminum
- Dual O-rings for a tight seal
- Available in Raw, Anodized Black or Anodized Gold finishes



115010120

115010124

PART NO.	APPLICATION	FINISH
<a href="#">115010120</a>	2001-2010 Duramax	Black
<a href="#">115010124</a>	2001-2010 Duramax	Gold

### RESONATOR DELETE PLUG.

Billet machined construction. OEM snap fit design accommodates locating tab in intake tube for a perfect fit..

**Features:**

- Solid billet aluminum
- Available in Raw, Anodized Black or Anodized Gold finishes



115010420

115010400

115010400



115010220

115010200

115010224

PART NO.	APPLICATION	FINISH
<a href="#">115010400</a>	2017+ Duramax L5P	Raw
<a href="#">115010420</a>	2017+ Duramax L5P	Black
<a href="#">115010424</a>	2017+ Duramax L5P	Gold
<a href="#">115010200</a>	2011-2016 Duramax LML	Raw
<a href="#">115010220</a>	2011-2016 Duramax LML	Black
<a href="#">115010224</a>	2011-2016 Duramax LML	Gold





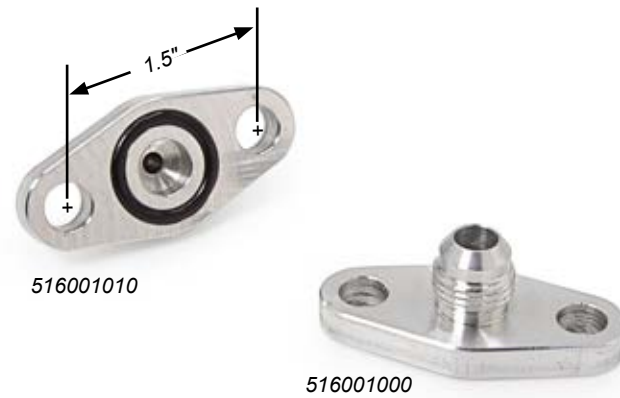
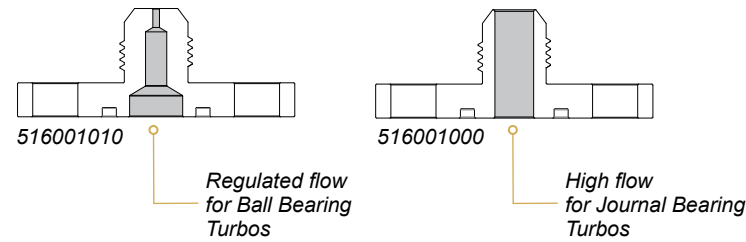
**OIL FEED LINE ADAPTERS**

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
<a href="#">516001010*</a>	Oil Feed Adapter - Ball Bearing Turbos
<a href="#">516001000</a>	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
<a href="#">516000800</a>	Oil Galley Feed Line Fitting



**TURBO COOLANT FITTINGS**

**Features:**

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

PART NO.	APPLICATION
<a href="#">116005033</a>	M18-1.25 to 3/8" barb
<a href="#">116005035</a>	M18-1.25 to -6AN
<a href="#">116006034</a>	M18-1.25 to 1/2" barb
<a href="#">116006036</a>	M18-1.25 to 1/4 FIP

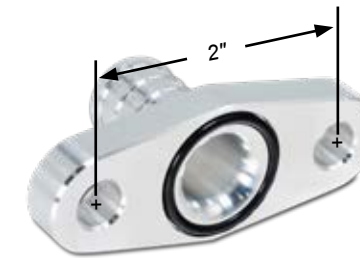


**T4 OIL DRAIN FITTING**

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

Installs with a tight O-Ring seal and its barbed end it accepts a rubber 5/8 inch oil drain line.

PART NO.	DESCRIPTION
<a href="#">516002000</a>	Fits 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
<a href="#">115051600</a>	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, stainless 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
<a href="#">116454021</a>	2001-2007 LB7/LLY/LBZ	Mild steel
<a href="#">116454020</a>	2001-2007 LB7/LLY/LBZ	Aluminum
<a href="#">116454019</a>	2007.5-2010 LMM	Mild steel
<a href="#">116454018</a>	2007.5-2010 LMM	Aluminum
<a href="#">116454017</a>	2007.5-2010 LMM	Stainless steel





# 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
<a href="#">115910101</a>	2001 LB7
<a href="#">115910204</a>	2002-2004 LB7
<a href="#">115910405</a>	2004.5-2005 LLY
<a href="#">115910610</a>	2006-2010 LBZ/LMM
<a href="#">115911114</a>	2011-2016 LML
<a href="#">115901200</a>	2004.5-2005 Kodiak LLY

See next page for detailed description of each kit.



115911114 Performance Silicone Hose Kit shown.



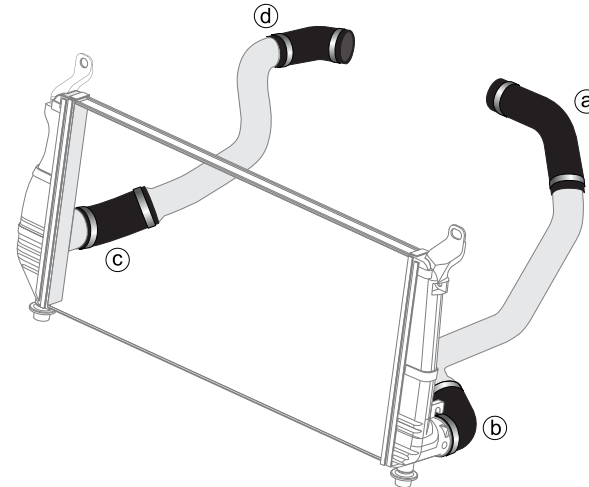


**PERFORMANCE SILICONE HOSES**

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

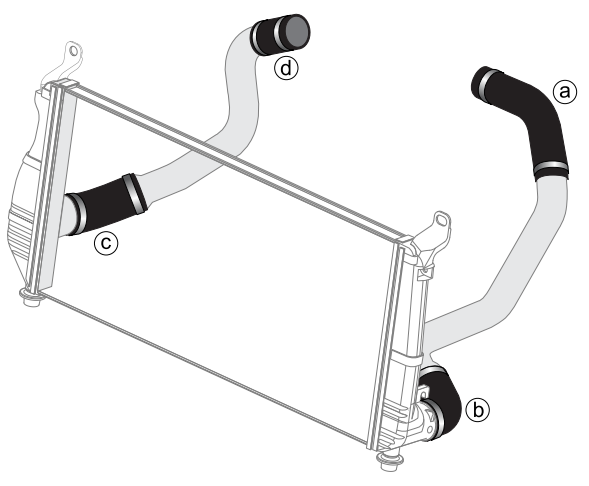
**115910101  
2001 LB7 Silicone Hose Kit with stainless steel Clamps**

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



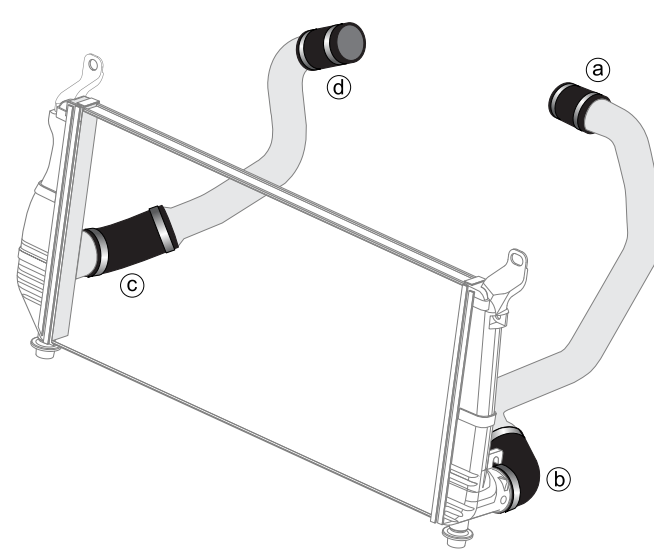
**115910204  
2002-2004 LB7 Silicone Hose Kit with stainless steel Clamps**

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



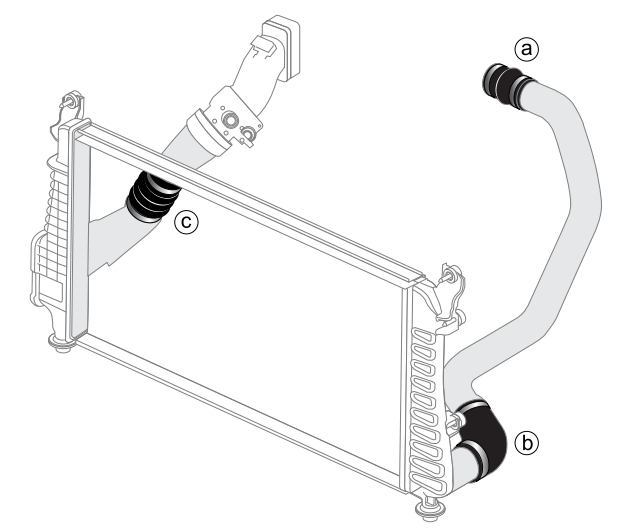
**115910405  
2004.5-2005 LLY Silicone Hose Kit with stainless steel Clamps**

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



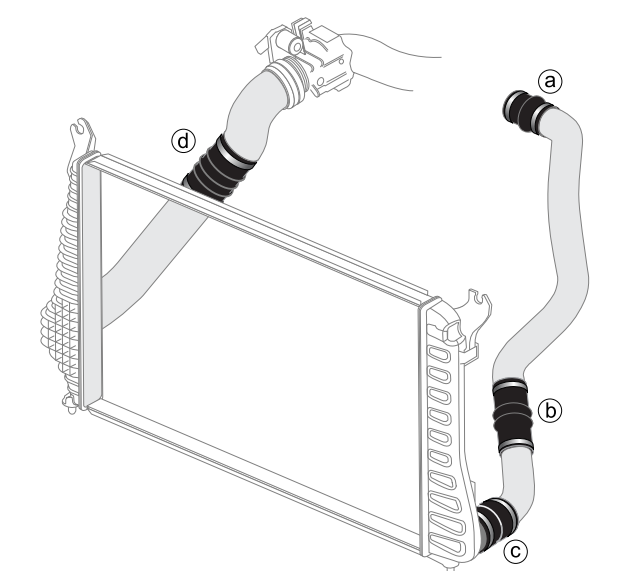
**115910610  
2006-2010 LBZ/LMM Silicone Hose Kit with stainless steel Clamps**

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



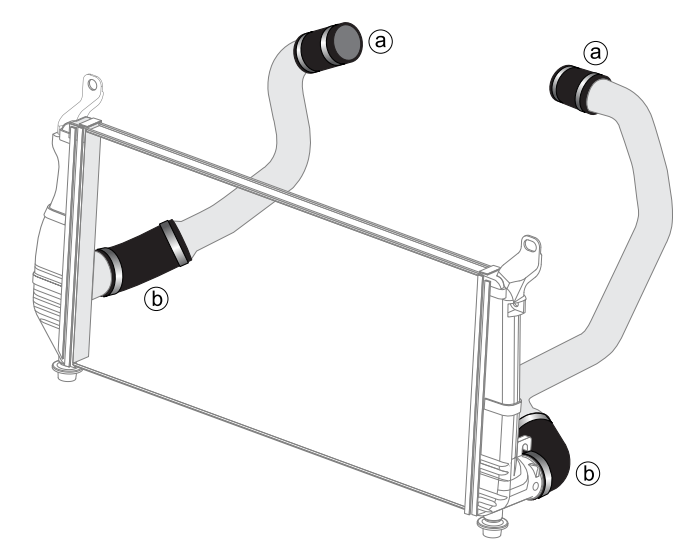
**115911114  
2011-2016 LML Silicone Hose Kit with stainless steel Clamps**

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



**115920405  
2004.5-2005 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	<a href="#">115900500</a>	<a href="#">15188715</a>	71/63
b. 6mm 5-ply Silicone	2	<a href="#">115901200</a>	<a href="#">15020973</a>	92/84
71/63mm T-Bolt	4	<a href="#">515275225</a>		
92/84mm T-Bolt	4	<a href="#">515350300</a>		





**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

PART NO.	APPLICATION
<a href="#">116454025</a>	2001-2007 GM Diesel 2500HD/3500HD 2001-2007 GM Gas 1500/2500/3500
<a href="#">116454075</a>	2007.5-2010 GM Diesel 2500HD/3500HD 2007.5-2010 GM Gas 1500

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



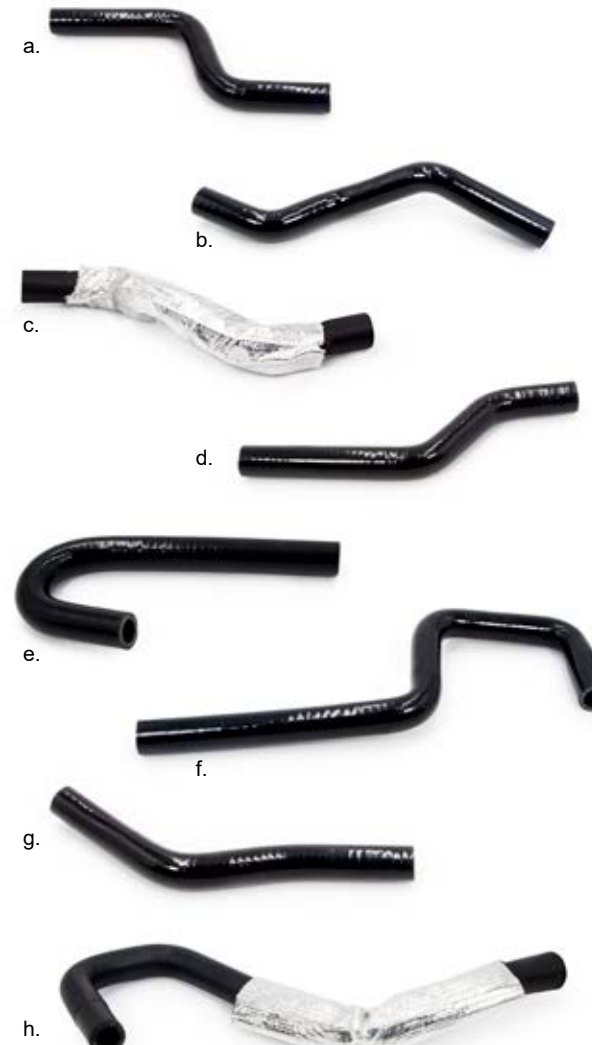
**HOSE KIT FOR COOLANT OVERFLOW TANK**

**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
<a href="#">116454080</a>	2001-2010 GM Diesel 2500HD/3500HD 2001-2010 GM Gas 1500/2500/3500

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



**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. <a href="#">119020010</a>	<a href="#">15768212</a>	2001-2004 LB7
	<a href="#">15196471</a>	2004.5-2005 LLY
	<a href="#">25800640</a>	2006-2007 LBZ
b. <a href="#">119020011</a>	<a href="#">25800640</a>	2007.5-2010 LMM
	<a href="#">20984280</a>	2011-2014 LML
c. <a href="#">119020015</a>	<a href="#">23287228</a>	2015-2016 LML

**EGR to Cab**

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

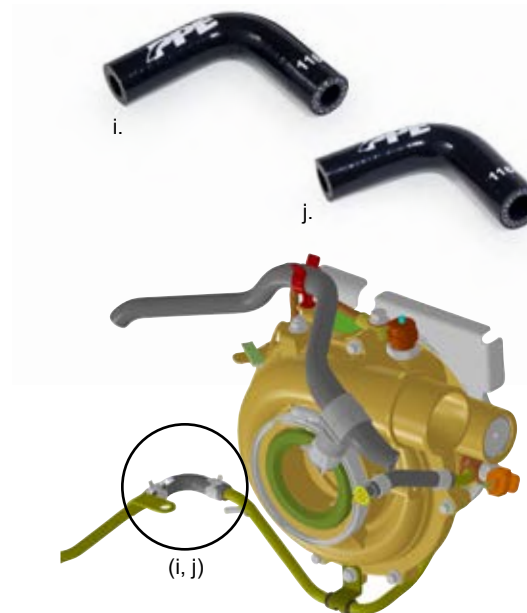
The PPE Turbo Coolant Hose Performance Silicone Hose is reinforced with 3 plies of NOMEX® fibers. The quality silicone is resistant to high-temperatures and is UV and Ozone resistant.

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. <a href="#">116002045</a>	<a href="#">97354884</a>	10mm dia.	2001-2005 LB7/LLY
j. <a href="#">116002060</a>	<a href="#">97383472</a>	12.7mm dia.	2006-2010 LBZ/LMM





**304 STAINLESS STEEL COOLANT REROUTE TUBE**

Specifically designed for use with the factory thermostat housing. Straight design for use with larger intake bridge. Stainless steel construction is resistant to 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 with the factory thermostat housing. 304 stainless steel construction is resistant to 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



**FULLY TIG WELDED**  
All Parts are Fully TIG Welded for Strength



**304 STAINLESS STEEL COOLANT BYPASS TUBE**

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

PART NO.	APPLICATION	FINISH
119000630	2001-2005 GM 6.6L Duramax	Polished
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 with the factory oil cooler filter housing. This coolant pipe is custom fabricated with a heavy duty flange. 304 stainless steel construction is resistant to 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

**25% THICKER FLANGE**  
For superior strength





**THERMOSTAT HOUSING COVER**

Rust is the enemy of your coolant system. Upgrade your rusty OEM thermostat housing cover with a PPE Cast 304 Stainless Steel Thermostat Housing Cover. This direct bolt-on replacement adds style and function to your engine bay. The stainless steel material is corrosion and rust resistant.

We've engineered an easy way of bleeding off air from your coolant system by adding our Black Anodized Aluminum Bleeder Screw with a built-in air channel. This makes quick work of purging air from your system without removing the entire screw. Just turn, purge and tighten.

**Features:**

- Cast 304 Stainless Steel / Corrosion and rust resistant
- Includes PPE Black Anodized Aluminum Bleeder Screw for a quick air purge (513081100)
- Limited lifetime warranty

PART NO.	APPLICATION	FINISH
119000530	GM LB7	Raw
119000540	GM LLY/LBZ/LMM	Raw
119000533	GM LB7	Polished
119000543	GM LLY/LBZ/LMM	Polished



**PUMP RELOCATION KIT FOR EXTENDED OIL FILTER**

This kit replaces the factory heater coolant pump mounting bracket and moves the pump farther away from the oil filter, so that the PPE High Efficiency 2020+ L5P Deep Oil Filter 114000750 can be installed. It also comes with two pieces of silicone hoses paired with stainless steel worm clamps, which is an upgrade to the factory's rubber hoses and clips.

**Includes:**

- 1x Stainless Steel Relocation Bracket
- 1x Upper Pump Hose, 1x Lower Pump Hose
- 4x Worm-drive Clamps
- 1x Stainless Steel Nylock Nut for Pump Installation

PART NO.	APPLICATION
114002700	2020+ GM 6.6L Duramax (L5P) OEM Bend



**COOLANT BLOCK-OFF PLATE**

The OEM block off plate uses a gasket and can leak over time. The PPE Billet Block-Off Plate is thicker and uses a Viton O-ring seal for maximum longevity. The PPE Billet Block-Off Plate installs using the OEM fasteners.

**Includes:**

- CNC machined billet aluminum
- Leakage-free O-ring face seal design
- Viton O-ring included

PART NO.	APPLICATION	FINISH
119000800	LB7, LLY, LBZ, LMM, LML, L5P (2001 – 2020)	Raw
119000820	LB7, LLY, LBZ, LMM, LML, L5P (2001 – 2020)	Black



**STAINLESS STEEL HEATER HOSE CONNECTOR**

The plastic HVAC heater hose connectors are a common failure point when the part fatigues from prolonged heat and vibration. This PPE Stainless Steel Heater Hose Connector provides excellent durability and corrosion resistance.

**Features:**

- Improved design for greater durability than OEM
- Better material – this heater hose connector uses stainless steel. The original part is made of plastic
- Fits like OEM
- Quality – designed to last the life of your vehicle

PART NO.	APPLICATION
119020009	1999-2014 GM Truck/SUV



**COOLANT THERMOSTAT HOUSING BRIDGE**

The thermostat housing bridge guides coolant from motor to the coolant outlet and radiator. Corrosion is often common on this part and can lead to blockage and degraded cooling capability.

Replace your rusty OEM thermostat housing bridge with the PPE High-Strength Cast-Aluminum Thermostat Housing Bridge. It directly bolts onto the OEM cylinder heads and adds style to your engine bay.

The PPE bridge is compatible with the factory thermostats, temperature sensor, and thermostat housing. Take a step further and pair it with the PPE 304 Stainless-Steel Thermostat Housing Cover.

**Features:**

- High-Strength Cast Aluminum
- Direct Replacement
- Limited lifetime warranty

PART NO.	APPLICATION
119000500	2001-2007 LB7/LLY/LBZ
119000510	2007.5-2010 LMM w/ Single Temp Sensor
119000515	2007.5-2010 LMM w/ Dual Temp Sensor



119000515





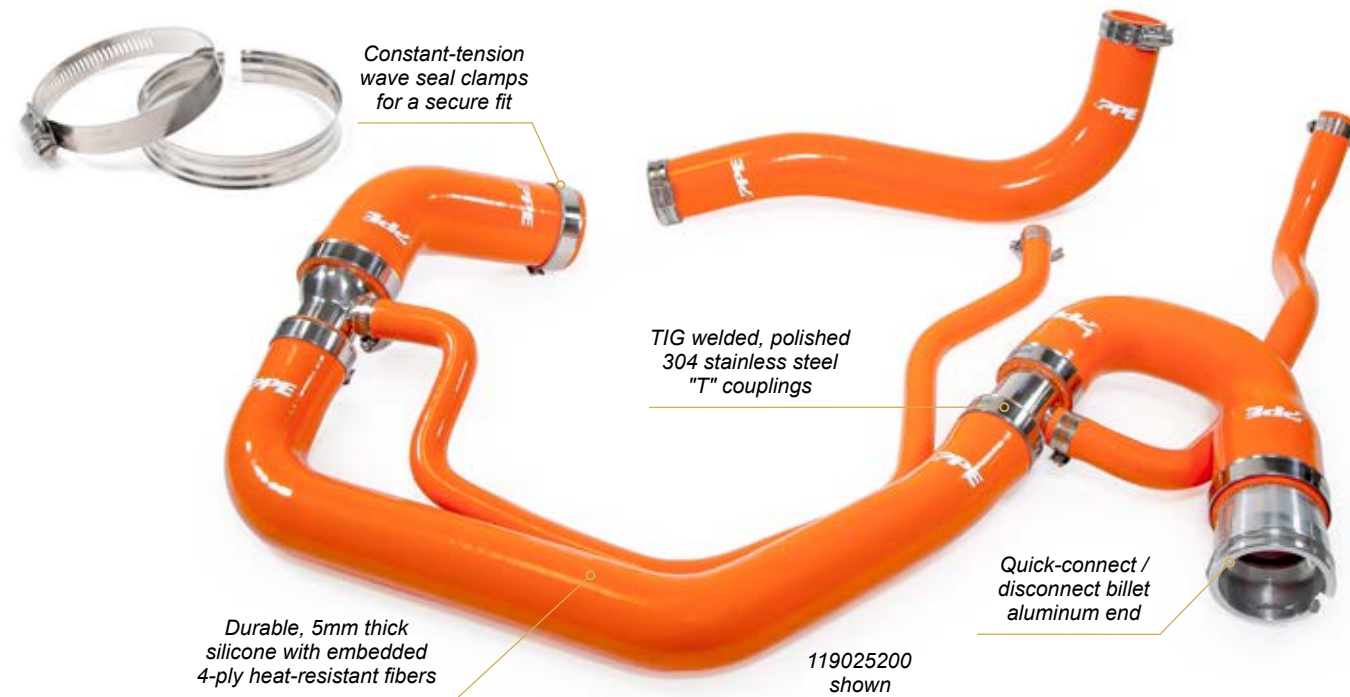
**PERFORMANCE SILICONE UPPER AND LOWER COOLANT HOSE KITS**

Factory coolant hose "T" fittings are molded hose or made of plastic and are prone to cracking at the 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. 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 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. Specialty Worm Drive Clamps with W-Style Inner Liners are included.

Specialty Worm Drive Clamps with W-Style Inner Liners are included. These specially-designed two-piece clamps provide 360 degrees of constant tension with interlocking surfaces that prevent leakage. The high-quality stainless steel construction makes them resistant to moisture and chemicals so they look and perform great. These specialty clamps provide superior tension throughout the thermal cycle, they withstand engine vibration and excel in the challenging under hood environment.



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



2001-2005 LB7/LLY		2006-2010 LBZ/LMM		2011-2016 LML	
PART NO.	COLOR	PART NO.	COLOR	PART NO.	COLOR
119020100	Black	119020200	Black	119020300	Black
119021100	Red	119021200	Red	119021300	Red
119022100	Blue	119022200	Blue	119022300	Blue
119023100	Green	119023200	Green	119023300	Green
119024100	Yellow	119024200	Yellow	119024300	Yellow
119025100	Orange	119025200	Orange	119025300	Orange



**COOLANT DRAIN TUBE**

Now easily drain your cooling system with this painless upgrade. This quick install can be done right in your driveway and adds a service option to any vehicle that doesn't come with a factory coolant drain. Once installed, you simply unscrew the NPT plug and your coolant runs out. Reinstall the plug, fill with fresh fluid and you're done!

The PPE Coolant Drain Tube and clamps are manufactured from 304 stainless steel tubing which provides high-strength as well as rust and corrosion resistance. The tube ends have a smooth, consistent bead that provides a superior seal to help prevent leaks.

**Features:**

- Made from 304 stainless steel
- Built-in 1/4" bung for quick maintenance
- 304 stainless steel constant wave clamps included
- Limited lifetime warranty

PART NO.	DESCRIPTION
119020086	1.75" Stainless Steel Tube - 1/4" Bung
119020092	2.0" Stainless Steel Tube - 1/4" Bung



**COOLANT DRAIN TUBE**

Now easily drain your cooling system with this painless upgrade. This quick install can be done right in your driveway and adds a service option to any vehicle that doesn't come with a factory coolant drain. Once installed, simply unscrew the NPT plug and the coolant runs out. Reinstall the plug, fill with fresh fluid, job done!

The PPE Coolant Drain Tube and clamps are manufactured from Billet aluminum tubing. The smooth, consistent beads provide a superior seal and prevent leaks.

**Features:**

- Billet Aluminum tubing
- Built-in 1/8" NPT bung for quick maintenance
- 304 stainless steel constant wave clamps included



PART NO.	DESCRIPTION
119020094	2.0" Aluminum Tube - 1/8" Bung







**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

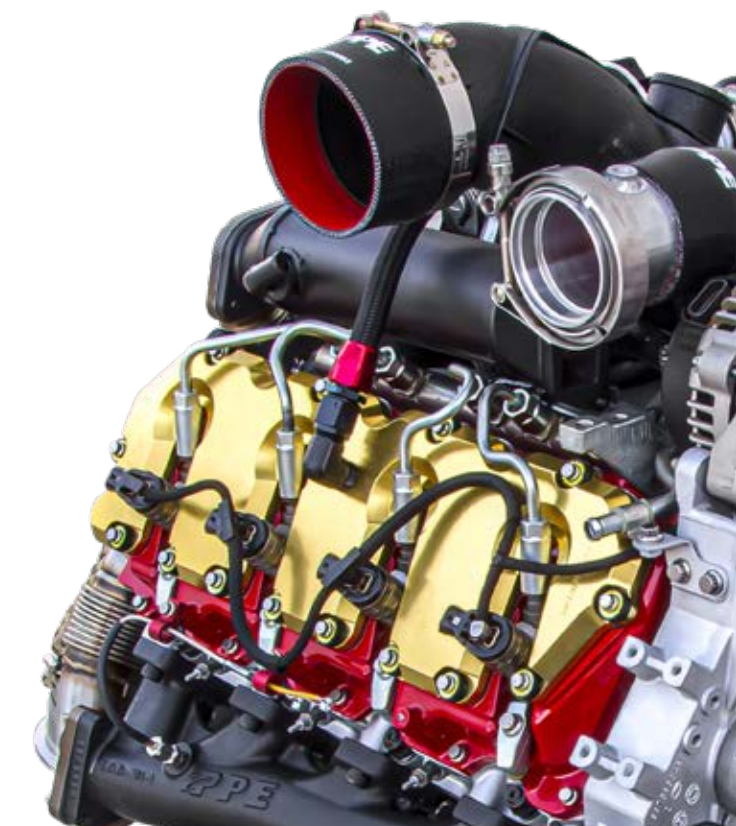
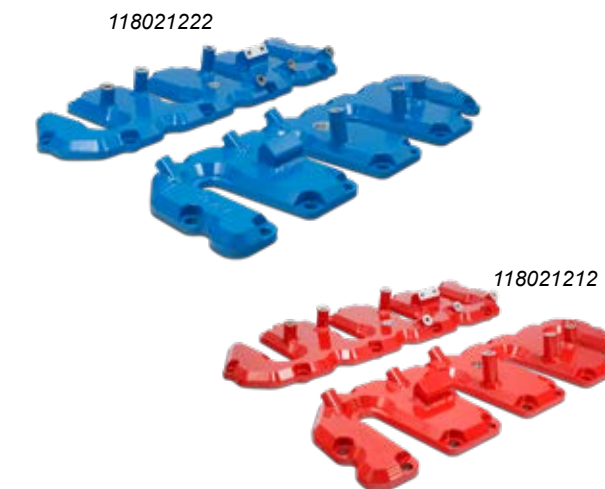
**Valve Covers with Pillars  
2004.5-2010 GM 6.6L Duramax 2500HD/3500HD**

PART NO.	FINISH
<a href="#">118021212</a>	Red powder coat
<a href="#">118021220</a>	Black powder coat
<a href="#">118021222</a>	Blue powder coat
<a href="#">118021230</a>	Polished

**Valve Covers without Pillars  
2004.5-2010 GM 6.6L Duramax 2500HD/3500HD**

PART NO.	FINISH
<a href="#">118021400</a>	Raw
<a href="#">118021418</a>	Black anodized matte
<a href="#">118021423</a>	Gold anodized matte
<a href="#">118021430</a>	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 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 an optional temperature sensor.

A high-power 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 A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Neodymium magnet equipped, billet hardened stainless steel drain plug
- Limited lifetime warranty

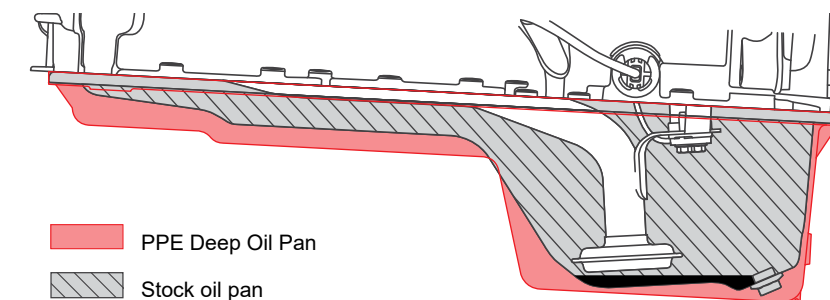
Available in your choice of raw or powder coated black finishes.

PART NO.	FINISH	APPLICATION
<a href="#">114053000</a>	Raw	2017-2019 L5P GM 6.6L Duramax
<a href="#">114053020</a>	Black	2017-2019 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.



- 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 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:**

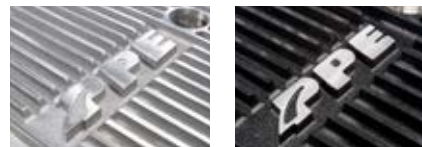
- Flat bottom - solves the complete oil drainage problem associated with GM pan
- One quart additional oil capacity
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Neodymium magnet equipped, billet hardened stainless steel drain plug
- Un-shrouded oil pickup
- Limited lifetime warranty



114052000



Available in two finishes



Raw finish

Black finish

PART NO.	FINISH	APPLICATION
<a href="#">114052000</a>	Raw	2001-2010 GM 6.6L Duramax
<a href="#">114052020</a>	Black	2001-2010 GM 6.6L Duramax
<a href="#">114052100</a>	Raw	2011-2016 GM 6.6L Duramax
<a href="#">114052120</a>	Black	2011-2016 GM 6.6L Duramax

**DEEP-CAPACITY CAST ALUMINUM OIL PAN**

This new deep pan is constructed of heavy-duty cast aluminum alloy and holds an additional two quarts of oil. More fluid increases thermal stamina which helps promote longer service life. We've added machined grooves to the outer surface of the pan to increase the effective surface area and maximize cooling.

The factory drain plug port is located below the bottom of the drain plug. About half a quart of dirty oil remains which immediately contaminates your fresh oil with sludge and ferrous metal. PPE solves that filthy problem with a flat, angled bottom and a drain plug port engineered below the bottom surface of the pan to ensure a complete drain.

A 1/8-inch NPT port is tapped and plugged into the side if you want to run an optional temperature sensor. We've also included a high-power Neodymium magnet equipped, billet, hardened stainless steel drain plug. This powerful plug pulls ferrous particles out of your oil before they damage your internals.

**Features:**

- Increases fluid capacity by 2 quarts
- Designed to achieve a complete oil drain
- Gussets provide extra support to flange and increase overall robustness
- Outer machined grooves increase the effective surface area and maximize thermal performance
- CNC machined inner flange grooves promote a complete seal
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- High-power Neodymium magnet-equipped hardened billet stainless steel drain plug with copper gasket and safety wire provision
- Limited lifetime warranty



114054000

Available in two finishes



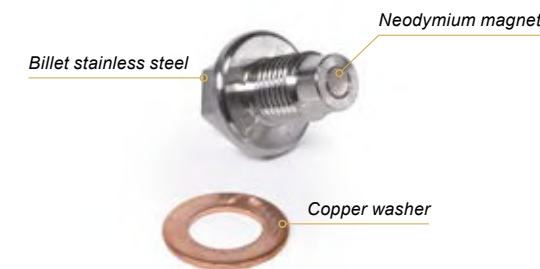
Raw finish

Black finish

PART NO.	FINISH	APPLICATION
<a href="#">114054000</a>	Raw	2020-2021 Chevy Silverado/GMC Sierra with 3.0L Duramax
<a href="#">114054020</a>	Black	2020-2021 Chevy Silverado/GMC Sierra with 3.0L Duramax

**BILLET HARDENED STAINLESS STEEL NEODYMIUM MAGNETIC DRAIN PLUG FOR OEM ENGINE OIL PAN**

The factory oil pan drain plug does not have a magnet. That leaves metal particles free-floating around to do damage. PPE's Billet Hardened Stainless Steel Oil Drain Plug comes equipped with a powerful Neodymium magnet that pulls harmful ferrous metal contaminants from the oil which helps to extend the life of your engine. Comes complete with a new copper washer.



PART NO.	APPLICATION	THREAD SIZE
<a href="#">114052001</a>	2001-2016 GM 6.6L Duramax	M14 x 1.5 - 20
<a href="#">114052201</a>	2017-2020 GM 6.6L Duramax	M12 x 1.75 - 25





# 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.



# MicroPureXR<sup>®</sup> | with TorqSTOP technology

## PREMIUM HIGH-EFFICIENCY OIL FILTER

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.

Specially engineered synthetic filtration media achieves superior filtration to catch and hold minute dirt and particle down to 5 microns. A typical OEM-quality oil filter removes about 72% of particles in 8 to 10 micron range. A high-power magnet is secured at the bottom of the filter. It catches any large metal debris, prevent them from clogging the filter media. The base plate and the cannister are both enhanced with thicker materials.

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.

**152%**  
INCREASED SURFACE AREA  
for superior performance  
(114000555)

### Features:

- Direct replacement for the stock oil filter - no adapter!
- High-efficiency 5-micron filtration
- Bypass is 10 PSI over OEM
- Filter increases oil capacity by one quart
- 900 sq. in. of synthetic filtration media, 100% increase compared to the OEM filter
- Media is secured by spiral adhesive
- Perforated metal center tube
- Enhanced, thicker base plate
- Compatible with conventional and synthetic oils



PART NO.	APPLICATION
114000555	2001-2019 GM 6.6L Duramax





**PREMIUM HIGH-EFFICIENCY OIL FILTER**

The OEM PF66 filter comes up short with 133 square inches of filter media with a 25-30 micron filtration rating. The simple leaf spring design to secure the oil seal loses tension and can lead to dirty oil blow-by. It also doesn't come with an integrated magnet to help protect your engine from ferrous metal particles.

The PPE upgrade has superior filtration down to 10 microns and 188 square inches which equates to 41% more specially engineered media than the stock filter. A perforated metal center core provides media support. Blow-by is eliminated by a stiff coil spring for a tight seal. This filter upgrade also includes an integrated magnet to catch ferrous metals, a silicone anti-drain-back valve prevents dry starts, and a 30% thicker base plate features 29% larger passages for higher flow.

Choose the superior upgrade when it's time to change your PF66 stock filter. Choose PPE.

**Features:**

- Filtration down to 10 microns
- 41% more premium filter media than stock
- 30% thicker threaded baseplate with 29% larger oil passages
- Silicone anti-drain-back valve
- Perforated metal core reinforces filter media
- Stiff coil spring increases oil seal pressure to prevent the passing of unfiltered oil (blow-by)
- Integrated internal magnet catches ferrous metals before they do harm
- Superior flow and filtration over standard filters
- Compatible with conventional and synthetic oils



PART NO.	APPLICATION
114000650	2019-2020+ GM 3.0L Duramax

**PREMIUM HIGH-EFFICIENCY OIL FILTER**

This oversize PPE Engine Oil Filter has double the specially engineered filter media equaling 522 square inches, 100% more media than stock. A perforated metal center core provides media support, preventing collapse. Blow-by is eliminated by an integrated coil spring. This filter also includes a high-power Neodymium magnet to catch ferrous metals, preventing them from circulating. The silicone anti-drain-back valve prevents the passage of dirty oil. The bypass valve features a stiffer spring and a rubber seal. The thicker base plate has 49% larger passages for higher flow.

The OEM PF26 filter comes up short with only 259 square inches of 30 micron filtration capability. The stock filter has no center core support which can lead to media collapse. The stock leaf spring loses tension and can lead to dirty oil blow-by. The OEM filter bypass valve comes with no seal of any kind.

This oversize filter requires the use of the 114002700 PPE Fuel Pump Relocation Bracket (2020+ L5P)

**Features:**

- 522 square inches of specially engineered 5 micron media - 100% more media than stock
- Thicker threaded plate with 49% larger oil passages for higher flow
- Silicone anti-drain-back valve for cleaner operation
- Perforated metal center tube provides core-strength for filter media
- Bypass valve (OEM required) has a stiffer spring and a rubber seal
- Coil spring eliminates oil blow-by
- Integrated internal magnet with retainer
- Compatible with synthetic and conventional oils



PART NO.	APPLICATION
114000750	2020+ GM 6.6L Duramax

**OIL FILTER HAND WRENCH**

PPE's Oil Filter Hand Wrench is specifically designed to work with our large PPE Duramax Engine Oil Filters. Do not risk damaging the oil filter with strap wrenches or universal wrenches. This polished-finish Oil Filter Hand Wrench is cut out of thick stainless steel to engage with the flats of the oil filter for a perfect fit. This tool will make oil filter changes quick and easy.

**Features:**

- Polished stainless-steel construction.
- Made exclusively for PPE MicroPure XR engine oil filter
- 107 mm 15-flute

PART NO.	APPLICATION
114000558	PPE Oil Filter (114000555)



**PPE ENGINE OIL FILTER SOCKET - ANODIZED BILLET ALUMINUM**

Get a firm grip on the giant PPE Premium High-Efficiency Engine Oil Filter for the Duramax 2001-2019 engines. Get next-level filtering and easy changes with this specialty socket made exclusively for the big PPE Engine Oil Filters.

Manufactured with CNC machined 6061-T6 billet aluminum with a Madras Bronze anodized finish. This socket takes a standard 1/2 inch drive or a 1 1/4 inch (32mm) so you have options for removal and installation.

**Features:**

- Made exclusively for PPE MicroPure XR engine oil filter
- CNC machined 6061-T6 billet aluminum
- Madras Bronze anodized finish
- Works with 1/2 inch square drive or 1-1/4 inch socket

PART NO.	APPLICATION
114000559	PPE Oil Filter (114000555)



**PREMIUM HIGH-EFFICIENCY OIL FILTER**

The OEM PF26 filter comes up short with only 259 square inches of 25-30 micron filtration capability. The stock filter also has no center core support which can lead to media collapse. The simple leaf spring design to secure the oil seal loses tension and can lead to dirty oil blow-by. The OEM filter bypass valve comes with no seal of any kind.

In stark contrast, the PPE has superior filtration down to 5 microns, 330 square inches of specially engineered media. A perforated metal center core provides media support. Blow-by is eliminated by a coil spring. This filter also includes an integrated magnet to catch ferrous metals and a silicone anti-drain-back valve to prevent the passage of dirty oil. The bypass valve a stiffer spring and a rubber seal. The thicker base plate also has 49% larger passages for higher flow.

**Features:**

- 330 square inches of specially engineered 5 micron media
- Thicker threaded plate with 49% larger oil passages
- Silicone anti-drain-back valve
- Perforated metal center tube provides core-strength for filter media
- Bypass valve (OEM required) has a stiffer spring and a rubber seal
- Coil spring eliminates oil blow-by
- Integrated internal magnet with retainer
- Compatible with conventional and synthetic oils

PART NO.	APPLICATION
114000740	2020+ GM 6.6L Duramax





### 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
<a href="#">114025405</a>	2004.5-2005 GM 6.6L Duramax
<a href="#">114025000</a>	2006-2007 GM 6.6L Duramax
<a href="#">114027500</a>	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
<a href="#">114025010</a>	2004.5-2010 GM 6.6L Duramax



### BILLET ALUMINUM ENGINE OIL FILL DELETE PLUG

Remove the long factory oil filler tube and replace it with the PPE Oil Fill Delete Plug. CNC machined from billet aluminum and equipped with a Viton O-ring. Installation is easy, simply plug it in and install the factory screw back in place.

PART NO.	APPLICATION	FINISH
<a href="#">114051086</a>	2001-2019 GM 6.6L Duramax	Raw
<a href="#">114051088</a>	2001-2019 GM 6.6L Duramax	Black



114051086



114051088



### 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. Includes long lasting Viton O-Ring.

PART NO.	APPLICATION
<a href="#">114003000</a>	2001-2016 GM 6.6L Duramax
<a href="#">114003017</a>	2017-2020 GM 6.6L Duramax

*114003000/114003017 include the Viton O-Ring (114003005).*

### 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
<a href="#">114003005</a>	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
<a href="#">114020405</a>	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
<a href="#">114028000</a>	2004.5-2010 GM 6.6L Duramax



### CRANKCASE BREATHER SET REPAIR FITTINGS

Kit includes 2 CNC machined billet aluminum fittings.

PART NO.	APPLICATION
<a href="#">114020000</a>	2006-2010 GM 6.6L Duramax



PPE: machined from billet aluminum

Stock: made from composite plastic





**OIL CENTRIFUGE FILTRATION KIT**

It is 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 PPE 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 filters particles down to a 1/10th of a micron, compared to the OEM 25-40 micron filter.

**Features:**

- Filters particles down to a 1/10th of a micron
- 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)



114010200  
2006-2010 LBZ/LMM GM 6.6L Duramax



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, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Added rigidity to engine block
- Low profile: 4"
- Limited lifetime warranty



PART NO.	APPLICATION
<a href="#">114051000</a>	2001-2010 GM 6.6L Duramax
<a href="#">114051600</a>	2011-2016 GM 6.6L Duramax
<a href="#">114051700</a>	2017-2020 GM 6.6L Duramax

Additional required components on page 76.  
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 from tank/reservoir
- One -16AN pressure port to the engine

PART NO.	APPLICATION
<a href="#">114051100</a>	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 115).*

PART NO.	APPLICATION
<a href="#">114051200</a>	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
<a href="#">114051300</a>	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
<a href="#">114001000</a>	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
<a href="#">114001050</a>	2001-2010 GM 6.6L Duramax

Not compatible with factory oil filter housing

**REMOTE OIL FILTER MOUNT - POLISHED 304 STAINLESS STEEL**

Made from polished 304 stainless steel and equipped with -12 ORB ports, this filter mount is robust and restriction-free. It also features 4 mounting directions and compatibility with a variety of filters. The two neodymium-magnet-equipped plugs provide extra protection by pulling harmful ferrous particles out from the oil before entering the filter.

**Features:**

- Polished 304 stainless steel construction
- Two Neodymium magnet-equipped plugs included
- 1/8" NPT access port
- -12 ORB inlet/outlet ports
- 13/16"-16 and 1-1/2"-12 threaded filter adapters included

PART NO.	APPLICATION	FINISH
<a href="#">114002000</a>	Universal	Polished



Fits these popular filters with included adapters:  
 PPE 114000550, 114000555, 114000560  
 Fram HP6A, HP4  
 Purolator PBL35399  
 ACDELCO PF2232

Optional adapters available for other popular filters. See next page.



**REMOTE OIL FILTER MOUNT- 6061-T6 ALUMINUM**

This remote filter mount has a higher flowrate than stock and is compatible with HP4 and HP6A Racing Filters. It features one outlet and three inlet ports, all -12 ORB for an easy leak-free installation, and a 1/8" NPT port on top for an oil pressure/oil temp sending unit. The mounting bracket can be mounted in four different positions to suit your application. Two, large -12 ORB inlet plugs with neodymium magnets are included, along with one 1/8" NPT plug. Two threaded oil filter adapters are also included: 13/16"-16 and 1 1/2"-12.

Relocate your oil filter with this Remote Oil Filter Mount. Whether you are relocating your stock oil filter (PF2232) for easier access, or wanting to use a larger filter such as our Premium High-Efficiency Engine Oil Filter (114000550 or 114000560), complete your project with this remote filter mount.

**Features:**

- -12 O-Ring Boss Inlet/Outlet ports
- 1/8" NPT access port
- Two Neodymium magnet-equipped plugs included
- 13/16"-16 and 1-1/2"-12 threaded oil filter adapters included
- Compatible with HP4 and HP6A racing filters
- 360° adjustable inlet/outlet orientation

PART NO.	APPLICATION	FINISH
<a href="#">114002100</a>	Universal	Black

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



Fits these popular filters with included adapters:  
 PPE 114000550, 114000555, 114000560  
 Fram HP6A, HP4  
 Purolator PBL35399  
 ACDELCO PF2232

**Optional adapters for other popular filters**

<a href="#">114002165</a>	Adapter 1-12 to 1 1/8-16 (CAT1R-1807/ Baldwin B7225)
<a href="#">114002166</a>	Adapter 1-12 to 1 1/2-16 (Mobil 1 M1-601A)





# 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.

The PPE 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
- Limited lifetime warranty

PART NO.	APPLICATION
<a href="#">158100110</a>	2001-2010 GM 2500HD/3500HD
<a href="#">158101120</a>	2011-2020 GM 2500HD/3500HD

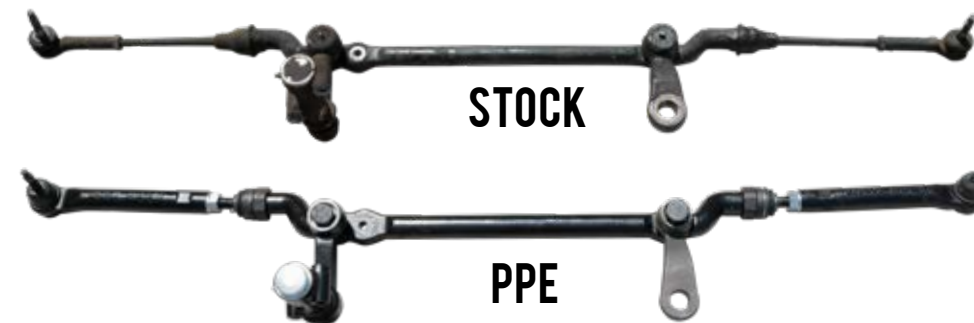


Features Zerk fitting for quick and easy maintenance



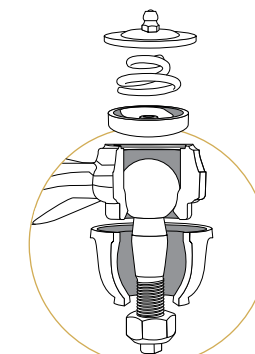
See the difference:

Significant differences are obvious when you compare stock to the PPE Kit



STOCK

PPE



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
- Limited lifetime warranty

PART NO.	APPLICATION
<a href="#">158050000</a>	2001-2010 2WD or 4WD GM 2500HD/3500HD
<a href="#">158051100</a>	2011-2020 2WD or 4WD GM 2500HD/3500HD

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

**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
- Limited lifetime warranty

PART NO.	APPLICATION
<a href="#">158040300</a>	2001-2010 2WD or 4WD GM 2500HD/3500HD
<a href="#">158041100</a>	2011-2020 2WD or 4WD GM 2500HD/3500HD

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

**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
<a href="#">158040005</a>	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).



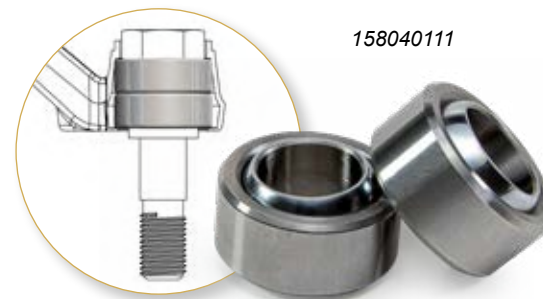
158050000



158051100



158040300



158040111



158040100



158040111

**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
- Limited lifetime warranty

PART NO.	APPLICATION
<a href="#">158040000</a>	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
<a href="#">158040100</a>	2001-2010 GM 2500HD/3500HD
<a href="#">158040111</a>	2011-2020 GM 2500HD/3500HD







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.

Limited Lifetime Warranty.

PART NO.	APPLICATION
<a href="#">158004000</a>	2001-2010 GM 2500HD/3500HD
<a href="#">158004011</a>	2011-2020 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.

Limited Lifetime Warranty.

PART NO.	APPLICATION
<a href="#">158005000</a>	2001-2010 GM 2500HD/3500HD
<a href="#">158005011</a>	2011-2020 GM 2500HD/3500HD



**STOCK**

**PPE 1.5"**



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.

Limited Lifetime Warranty.

PART NO.	FINISH	APPLICATION
<a href="#">158010000</a>	Raw	2001-2010 GM Full Size Trucks, SUVs and H2 Hummers
<a href="#">158010200</a>	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.

Limited Lifetime Warranty.

PART NO.	FINISH	APPLICATION
<a href="#">158016000</a>	Raw	2001-2010 GM Full Size Trucks, SUVs and H2 Hummers
<a href="#">158016200</a>	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 304 STAINLESS STEEL TIE ROD SLEEVES**

Factory tie rod assemblies bend and break. They are simply too small and weak to get the job done, especially in high-stress situations. While they are generally strong enough for stock performance, pick-ups with the added stress of larger tires, lift kits, racing, towing and off-road use create more stress than the stock tie rods were designed to handle.

The simplest fix for adding strength to your factory tie rods is to install the PPE Tie Rod Sleeves over the stock outer tie rod end. The fully-polished 304 stainless steel stays looking great. These sleeves are a quick upgrade that can be installed in your driveway.

**Features:**

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

PART NO.	APPLICATION
<a href="#">158030200</a>	2001-2010 GM, SUVs and H1 Hummer
<a href="#">158030211</a>	2011-Current GM

**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
<a href="#">158030500</a>	2001-2010 GM 2500HD/3500HD Trucks

**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
<a href="#">158031000</a>	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.*



158030200



**STAGE 1**



**STAGE 2**



**STAGE 3**

The 2011-2020+ version features a Zerk fitting for quick and easy maintenance

1158031511

**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.

Limited Lifetime Warranty.

**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
<a href="#">158031500</a>	2001-2010 GM 2500HD/3500HD Trucks
<a href="#">158031511</a>	2011-2020+ 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.*

**INNER AND OUTER BOOT REPLACEMENT KIT FOR PPE STAGE3 TIE RODS**

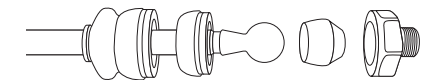
Replace your damaged PPE Stage3 Tie Rod dust boots without buying new tie rods. Constructed of high-quality rubber replacements to extend the life of your Stage3's. The kit includes redesigned inner dust boots that "float" and eliminate the compression ring. The outer boots include tight fitting compression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

PART NO.	APPLICATION
<a href="#">158031522</a>	2001+ GM 2500HD/3500HD Trucks

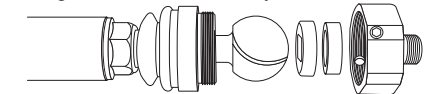
**See the difference:**

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





# ALLISON TRANSMISSION

## PERFORMANCE + UPGRADES



### EXPLORE THIS SECTION

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- 107 TRANSFER CASE BRACE

*Quickly find what you're looking for.*



# BUILD & PLAY.

## READY-TO-INSTALL COMPLETE ALLISON TRANSMISSIONS

Let us build your complete ready-to-install transmission. PPE experts with more than 40 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
<a href="#">128134200</a>	<a href="#">128135200</a>	<a href="#">128136200</a>	2001-2002	w/o TC
<a href="#">128134201</a>	<a href="#">128135201</a>	<a href="#">128136201</a>	2003-2004	w/o TC
<a href="#">128134202</a>	<a href="#">128135202</a>	<a href="#">128136202</a>	2004.5-2005	w/o TC
<a href="#">128134203</a>	<a href="#">128135203</a>	<a href="#">128136203</a>	2006-2007	w/o TC
<a href="#">128134204</a>	<a href="#">128135204</a>	<a href="#">128136204</a>	2007.5-2010	w/o TC
<a href="#">128134205</a>	<a href="#">128135205</a>	<a href="#">128136205</a>	2011-2016	w/o TC
<a href="#">128134300</a>	<a href="#">128135300</a>	<a href="#">128136300</a>	2001-2002	w/ TC - BCBS
<a href="#">128134301</a>	<a href="#">128135301</a>	<a href="#">128136301</a>	2003-2004	w/ TC - BCBS
<a href="#">128134302</a>	<a href="#">128135302</a>	<a href="#">128136302</a>	2004.5-2005	w/ TC - BCBS
<a href="#">128134303</a>	<a href="#">128135303</a>	<a href="#">128136303</a>	2006-2007	w/ TC - BCBS
<a href="#">128134304</a>	<a href="#">128135304</a>	<a href="#">128136304</a>	2007.5-2010	w/ TC - BCBS
<a href="#">128134305</a>	<a href="#">128135305</a>	<a href="#">128136305</a>	2011-2019	w/ TC - BCBS

BCBS = Billet Cover Billet Stator

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







**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
<a href="#">128034201</a>	2001-2004	w/o TC
<a href="#">128034301</a>	2001-2004	w/ TC - BCBS
<a href="#">128034202</a>	2004.5-2005	w/o TC
<a href="#">128034302</a>	2004.5-2005	w/ TC - BCBS
<a href="#">128034203</a>	2006-2010	w/o TC
<a href="#">128034303</a>	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
<a href="#">128035201</a>	2001-2004	w/o TC
<a href="#">128035301</a>	2001-2004	w/ TC - BCBS
<a href="#">128035202</a>	2004.5-2005	w/o TC
<a href="#">128035302</a>	2004.5-2005	w/ TC - BCBS
<a href="#">128035203</a>	2006-2010	w/o TC
<a href="#">128035303</a>	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
<a href="#">128035511</a>	2001-2004	w/o TC
<a href="#">128035501</a>	2001-2004	w/ TC - BCBS
<a href="#">128035512</a>	2004.5-2005	w/o TC
<a href="#">128035502</a>	2004.5-2005	w/ TC - BCBS
<a href="#">128035513</a>	2006-2010	w/o TC
<a href="#">128035503</a>	2006-2010	w/ TC - BCBS
<a href="#">128035514</a>	2011-2019	w/o TC (600-800hp)
<a href="#">128035504</a>	2011-2019	w/ TC - BCBS (600-800hp)
<a href="#">128035515</a>	2011-2019	w/o TC (800+hp)
<a href="#">128035505</a>	2011-2019	w/ TC - BCBS (800+hp)

*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
<a href="#">128134101</a>	C1 Clutch Pack
<a href="#">128134102</a>	C2 Clutch Pack
<a href="#">128134103</a>	C3 Clutch Pack
<a href="#">128134104</a>	C4 Clutch Pack
<a href="#">128135105</a>	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
<a href="#">128135101</a>	C1 Clutch Pack (\$50 core charge applies)
<a href="#">128135102</a>	C2 Clutch Pack
<a href="#">128135103</a>	C3 Clutch Pack (\$100 core charge applies)
<a href="#">128135104</a>	C4 Clutch Pack
<a href="#">128135105</a>	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
<a href="#">128035550</a>	C1 G3 Clutch Pack (\$50 core charge applies)
<a href="#">128035560</a>	C2 G3 Clutch Pack
<a href="#">128035570</a>	C3 G3 Clutch Pack (\$100 core charge applies)
<a href="#">128035580</a>	C4 G3 Clutch Pack
<a href="#">128035590</a>	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 “BC”
- CNC billet machined stator with custom stall “BS” 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
<a href="#">128010305</a>	X-1800-2100 RPM Stall Speed
<a href="#">128010310</a>	G-1800-1900 RPM Stall Speed
<a href="#">128010320</a>	BF-1900-2200 RPM Factory Stall Speed
<a href="#">128010322</a>	E-1800-2200 RPM Stall Speed
<a href="#">128010324</a>	R-2000-2200 RPM Stall Speed
<a href="#">128010326</a>	K-2500-2700 RPM Stall Speed
<a href="#">128010328</a>	J-2700-3000 RPM Stall Speed
<a href="#">128010330</a>	AR-3000 + RPM Stall Speed

*Note: S tall 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
- Limited lifetime warranty

PART NO.	QTY	APPLICATION
<a href="#">128060000</a>	2 pc. Raw	2001-2016 Allison 1000 Transmission
<a href="#">128060010</a>	2 pc. Brushed	2001-2016 Allison 1000 Transmission
<a href="#">128060020</a>	2 pc. Black	2001-2016 Allison 1000 Transmission
<a href="#">128060100</a>	1 pc. Raw	2017-2020 Allison 1000 Transmission
<a href="#">128060110</a>	1 pc. Brushed	2017-2019 Allison 1000 Transmission
<a href="#">128060120</a>	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 (over 800 RWHP) and torque levels 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
<a href="#">128020000</a>	2001-2019 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
<a href="#">128021000</a>	2001-2010 Allison 1000 4x4 5 and 6 speed
<a href="#">128021011</a>	2011-2019 Allison 1000 4x4 5 and 6 speed

**4L60E, 4L80E, ALLISON 1000 HARNESS REMOVAL TOOL**

This Harness Removal Tool for the 4L60E, 4L80E, and Allison 1000 is machined out of billet 6061-T6 aluminum and anodized black for a premium finish. This tool quickly and easily removes the wire harness connector from the case. Simply slide the tool over the connector from the outside and pull the connector out of the case from the inside. This tool can be used with the transmission in the vehicle or with the transmission on the bench.

**Features:**

- Easily remove the wire harness connector from the case on your 4L60E, 4L80E, or Allison 1000
- Billet 6061-T6 aluminum construction



PART NO.	APPLICATION
<a href="#">128043100</a>	4L60-E (1992-2010) and Allison 1000 (2001-2010)



128043000

**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 reduces 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
<a href="#">128043000</a>	2001-2010 LB7/LLY/LBZ/LMM Allison

**PRESSURE CALIBRATION KITS**

This kit is recommended for trucks hauling heavy loads and making high horsepower. The increase in line pressure improves your clutches' holding ability and the calibration springs will tighten up shifts.

**Features:**

- Increases line pressure
- Improved clutch holding ability
- Promotes tighter shifts



128041011

PART NO.	APPLICATION
<a href="#">128041000</a>	2001-2010 Allison 1000 and 2000
<a href="#">128041011</a>	2011-2019 450-800HP Allison 1000 and 2000
<a href="#">128041012</a>	2011-2019 800HP+ Allison 1000 and 2000

**EPC RECALIBRATION KIT FOR 2011-2019 DURAMAX**

Improves shift quality and increases the clamping force to the clutch packs to handle more horsepower. The Factory LML/L5P Allison transmission runs at 80PSI of line pressure. On shifts the solenoid will spike the line pressure to 230PSI and then kick it back down to 80PSI after the shift has been made. (not enough to hold any additional horsepower).

EPC Re-calibration will make the transmission run at a static pressure of 230PSI and will increase to 280PSI off idle eliminating pressure-drop on shifts.

**Features:**

- Consistent clamping force to clutch packs.
- Improve shift quality
- Increase ability to hold more horsepower
- Easy to install
- Easy alternative to transmission line pressure tuning



PART NO.	APPLICATION
<a href="#">128041119</a>	2011-2019 / Duramax/Allison / LML/L5P





**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 6L80 6-Speed transmission.

The OEM part has restrictive internal passages. When the OEM valve fails in the closed 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, maximizing fluid flow to and from the transmission cooler. For further protection, a Neodymium magnet-equipped service plug with O-ring seal 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.

**FEATURES:**

- Maximizes fluid flow to and from the transmission cooler
- Billet aluminum construction
- Direct fit with OEM 6L80 6-Speed transmission and fluid lines
- Service plug with Neodymium magnet and O-ring seal



PART NO.	APPLICATION
<a href="#">125068000</a>	2014-2021 GM 6L80 Transmission

**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 10L80 10-Speed transmission.

The OEM part has restrictive internal passages. When the OEM valve fails in the closed 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, maximizing fluid flow to and from the transmission cooler. For further protection, a Neodymium magnet-equipped service plug with O-ring seal 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.

**FEATURES:**

- Maximizes fluid flow to and from the transmission cooler
- Billet aluminum construction
- Direct fit with OEM 10L80 10-Speed transmission and fluid lines
- Service plug with Neodymium magnet and O-ring seal



PART NO.	APPLICATION
<a href="#">125069000</a>	2018-2021 GM 10L80 Transmission

**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 8L90 8-Speed transmission.

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 Valve eliminates the extremely restrictive mechanical factory valve, maximizing fluid flow to and from the transmission cooler.

For further protection, a Neodymium magnet-equipped service plug with O-ring seal 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.

**Features:**

- Maximizes fluid flow to and from the transmission cooler
- Billet aluminum construction
- Direct fit with OEM 8L90 8-Speed transmission and fluid lines
- Service plug with Neodymium magnet and O-ring seal



PART NO.	APPLICATION
<a href="#">125070000</a>	2015-2021+ GM 8L90 Transmission

**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 block fails in the closed 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 block does not have this feature.

PART NO.	APPLICATION
<a href="#">125065000</a>	2017-2019 GM 6.6L Duramax L5P





**HEAVY-DUTY DEEP ALUMINUM TRANSMISSION PAN - GM ALLISON 10L1000**

The Allison transmission has a reputation for performance and longevity. Now that it is available as the 10L1000, the reputation continues for the light truck market.

Get the best protection and performance out of your 10L1000 by upgrading to the PPE Heavy-Duty Cast Aluminum Deep Transmission pan. The deep PPE Pan Increases fluid capacity by a full gallon which lowers transmission fluid temperature. The engineered design includes cast aluminum fins and heat sinks to improve heat dissipation. The external gussets provide extra support to top flange and increase overall robustness.

PPE includes one-inch Neodymium magnet-equipped 304 stainless steel drain plug with Viton O-ring seal and a 9/16" ORB Neodymium Magnetic Plug with Viton O-ring seals for the fluid level check port. These powerful magnets pull ferrous metals out of the fluid before they can do damage to the internals.

**Features:**

- Increases fluid capacity by 4 quarts
- 3/4" inch external fins engineered to utilize underbody air flow
- 3/4" and 1.2" internal heat sinks improve heat transfer and reduce sloshing
- Cast, high-grade A356.0-T6 heat-treated aluminum alloy for optimal heat dissipation
- High-power Neodymium magnet-equipped 304 stainless steel drain plug with Viton O-ring seal
- 9/16" ORB magnetic plug with Viton O-ring seals the fluid level check port
- 1/8" NPT access port for optional temperature gauge
- External gussets provide extra support to top flange and increase overall robustness
- Compatible with OEM gasket
- Limited lifetime warranty



**2020+ GM / Chevy Allison 10L1000 Transmission**

PART NO.	FINISH
<a href="#">128051400</a>	Raw
<a href="#">128051410</a>	Brushed
<a href="#">128051420</a>	Black

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.

Available in three finishes



Raw finish

Brushed finish

Black finish

**HEAVY-DUTY DEEP ALUMINUM TRANSMISSION PAN - GM ALLISON 10L80**

PPE's Heavy-Duty DEEP 10L80 Transmission Pan holds an extra 4 quarts of fluid and is cast from high-quality aluminum alloy for strength and optimal heat dissipation. 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.

Cast gussets provide strength and overall robustness. Internal heat sinks wick heat and act as baffles to reduce fluid sloshing. External fins add surface area and use free-flowing air to radiate heat.

The PPE Heavy-Duty DEEP Aluminum Transmission Pan also features a high-power Neodymium magnet-equipped billet stainless steel drain plug to catch and hold harmful ferrous metal contaminants keeping them out of the transmission internals.

**Features:**

- Increases fluid capacity by 4 quartse
- 3/4" inch external fins improve heat dissipation, lower transmission fluid temperature, and increase strength
- 5/8" internal baffles further improve heat transfer and reduce fluid sloshing effect
- Cast, high-grade A356.0-T6 heat-treated aluminum alloy for optimal heat dissipation
- High-power Neodymium magnet-equipped 304 stainless steel drain plug with Viton O-ring seal
- 1/8" NPT access port for optional temperature gauge
- Gussets provide extra support to the top flange and increase overall robustness
- Compatible with OEM gasket
- Limited lifetime warranty



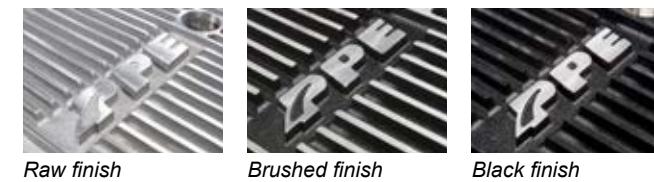
**2019+ GM Silverado 1500/ Sierra 1500, 3.0L Duramax Diesel with 10 Speed 10L80 Transmission**

PART NO.	FINISH
<a href="#">128051100</a>	Raw
<a href="#">128051110</a>	Brushed
<a href="#">128051120</a>	Black

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.

Available in three finishes



Raw finish

Brushed finish

Black finish





**HEAVY-DUTY DEEP ALUMINUM TRANSMISSION PAN - GM ALLISON 10L80**

PPE's Heavy-Duty Deep 10L80 Transmission Pan holds an extra 2 quarts of fluid and is cast from high-quality aluminum alloy for strength and optimal heat dissipation. .

The PPE Heavy-Duty Deep Aluminum Transmission Pan also includes an integrated fluid level check tube, sealed by PPE 1/2-inch stainless steel magnet-equipped plug. The drain port features a one-inch neodymium-magnet-equipped stainless steel drain plug. Both plugs catch and hold harmful ferrous particles and keep them out of the transmission internals.

**Features:**

- Increases fluid capacity by 2 quarts
- 3/4" inch external fins improve heat dissipation, lower transmission fluid temperature, and increase strength
- 5/8" internal baffles further improve heat dissipation, add strength, and reduce oil sloshing
- CNC machined grooves at bottom increase effective radiation area and improve heat dissipation
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- Neodymium-magnet-equipped stainless-steel plugs with Viton O-rings, promote seal and complete fluid drainage
- 1/8" NPT access port
- Compatible with OEM gasket
- Limited lifetime warranty



128051200

**2018+ GM Tahoe/ Suburban/ Yukon/ Escalade with 10L80 Transmission**

PART NO.	FINISH
128051200	Raw
128051210	Brushed
128051220	Black

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.

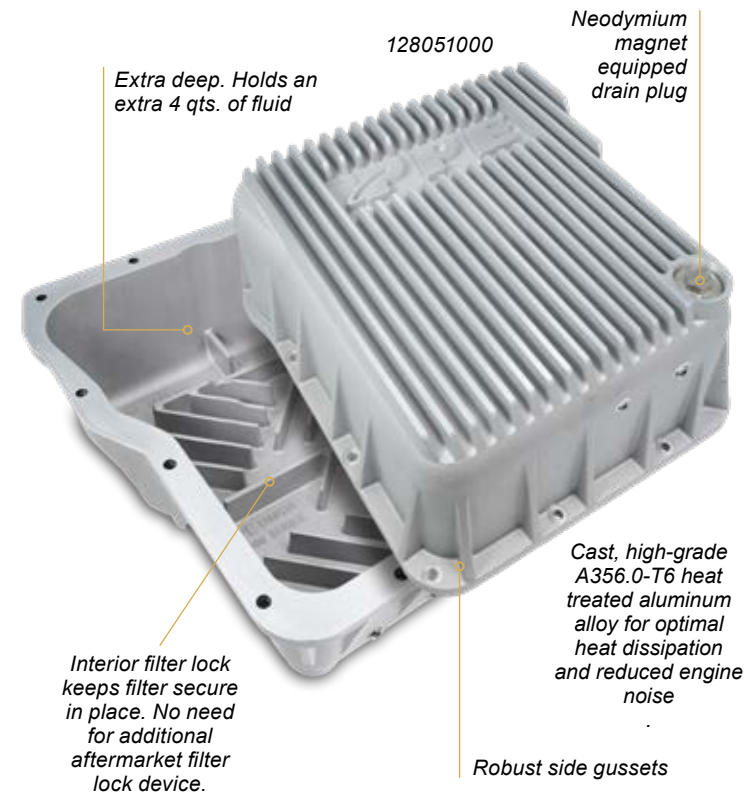
**2018+ GM Silverado 1500 with 10L80 Transmission**

PART NO.	FINISH
128051300	Raw
128051310	Brushed
128051320	Black

Available in three finishes



Raw finish      Brushed finish      Black finish



Includes Deep Pan Transmission Filter (128058700)



**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-power 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
- Includes Deep Pan Transmission Filter (128058700)
- Limited lifetime warranty

**2001-2019 GM / Chevy Allison Transmission**

PART NO.	FINISH
128051000	Raw
128051010	Brushed
128051020	Black
128058700	Replacement Deep Trans Pan Filter

Available in three finishes



Raw finish      Brushed finish      Black finish

**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
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Robust side gussets provide additional strength
- Retains use of high-quality original Allison pan gasket
- Limited lifetime warranty



128052010

Available in three finishes



Raw finish      Brushed finish      Black finish

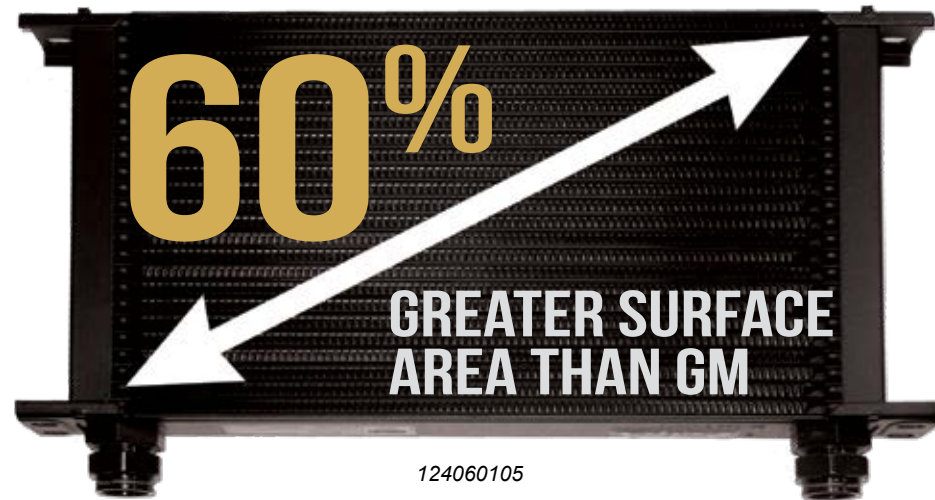
**2001-2019 GM / Chevy Allison Transmission**

PART NO.	FINISH
128052000	Raw
128052010	Brushed
128052020	Black





# INNOVATIONS IN TRANSMISSION COOLING.



**NOTE:**  
**2001-2005**  
VERIFY YOUR CLIP COLORS  
BEFORE ORDERING

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



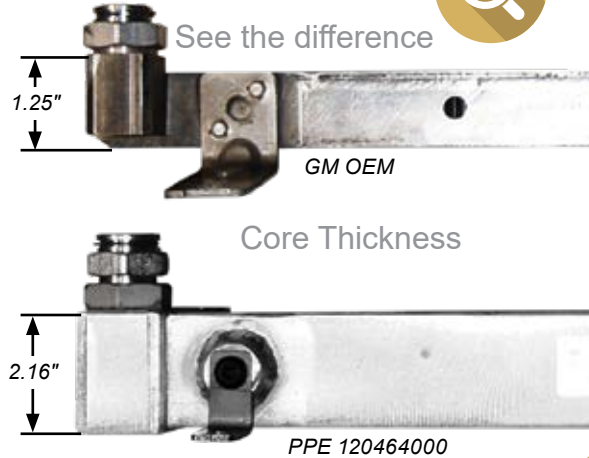
(124060300) 2003-2005 Cooler  
- connectors with Purple Clips



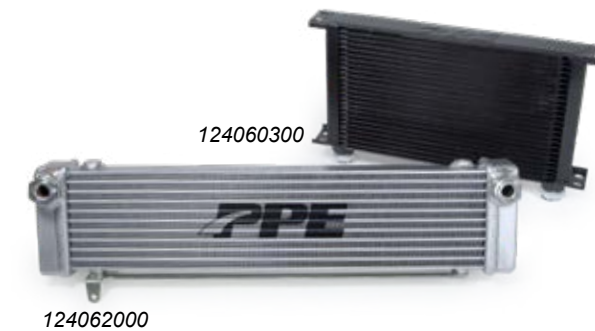
## SIMPLE BOLT-ON INSTALLATION



## FACTORY FITMENT



Simple, direct fit bolt-on installation. Highly recommended for upgraded performance transmissions.



Includes PPE Neodymium Ring Magnet (128059160) See page 106



PPE's Heavy-Duty Transfer Case Pump Housing Upgrade Kit contains a gasket, a machined aluminum pump cover and Neodymium ring magnet. 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
<a href="#">124062106</a>	2006-2010 Allison 1000/2000
<a href="#">124063000</a>	2011-2014 Allison 1000/2000
<a href="#">124064000</a>	2015-2016 Allison 1000/2000
<a href="#">124065000</a>	2017-2019 Allison 1000/2000
<a href="#">124066000</a>	2020+ Allison 10 Speed
<a href="#">124067000</a>	2019+ GM Silverado 1500

### Performance Transmission Coolers

PART NO.	APPLICATION
<a href="#">124060000</a>	2001-2003 Allison 1000/2000 Duramax/Gas Engines
<a href="#">124060300</a>	2003-2005 Allison 1000/2000 Duramax/Gas Engines
<a href="#">124062000</a>	2006-2010 Allison 1000/2000

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

Pump rub occurs when the four positioning tabs holding the pump in place wear over time and the oil pump tabs come in contact with the housing itself. The result is a hole in the cover causing fluid to leak and the possibility of damaging the 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
<a href="#">128059150</a>	2001-2019 Allison 1000/2000 Series Transmissions



**NEODYMIUM MAGNETIC FILL/DRAIN PLUG**

To help keep fluid cleaner, PPE includes our exclusive fill/drain plug featuring a high-power Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage. Thread Size 1 1/16"-12

PART NO.	FINISH
<a href="#">128051001</a>	304 Stainless steel
<a href="#">128051002</a>	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

**NEODYMIUM RING MAGNET**

Pull more ferrous particles out of the fluid with the ultra powerful PPE Neodymium Ring Magnet.

The ability of any magnet to pull ferrous particles out of the fluid depends of two fundamental principles of science: the magnetic force acting on the particle and the viscous forces of the fluid which attempts to keep the particles in suspension. When the magnetic force is stronger than the viscous forces, the particle is extracted from the flow of fluid.

Another fundamental property of all magnets is that magnetic force is reduced with distance. Considering this, it's important to use the strongest magnet possible for maximum benefit. Standard magnets inherently have a much smaller magnetic field so ferrous particles are able to stay suspended and do harm to the internals. The superior magnetic strength of the PPE Neodymium Ring Magnet keeps your fluid cleaner.

The PPE Neodymium Ring Magnet is designed to fit in between the Allison spin-on filter and the filter mount, which maximizes the effectiveness of the magnet. It can also be used at the bottom of any stock steel pan for to achieve the same benefits.

**FEATURES:**

- High-power, rare earth magnet attracts and holds ferrous metals
- Nickel plated
- Can be added to the bottom of stock steel pans

PART NO.	APPLICATION
<a href="#">128059160</a>	Allison 1000/2000 Series Transmission and transfer case



**DON'T LET THIS HAPPEN TO YOUR TAIL SHAFT HOUSING.**

**TRANSFER CASE BRACE**

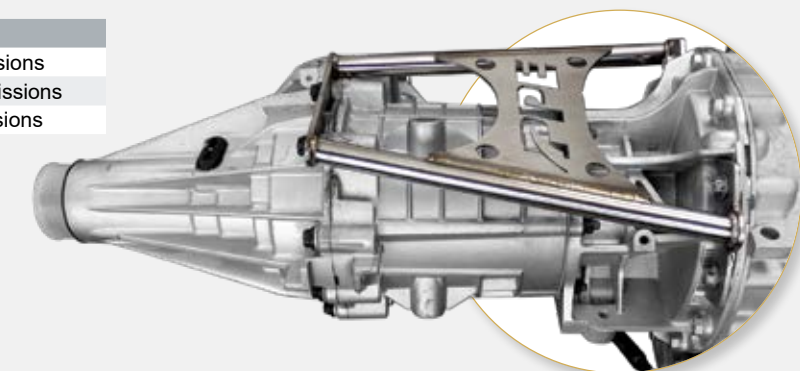
Cracked transmission tail shaft housings (located between the transfer case and the transmission) are a common problem for GM Allison-equipped 4x4 pick-ups in off-road and drag racing applications. Even a nominal amount of driveline vibration can cause the housing to fail, resulting in a transmission 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
<a href="#">129020107</a>	2001-2007 GM Allison (4x4) Transmissions
<a href="#">129020710</a>	2007.5-2010 GM Allison (4x4) Transmissions
<a href="#">129021115</a>	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-power 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
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- Billet 304 stainless steel Neodymium magnet- equipped fill plug
- Oil scraper design like oil systems used in professional racing
- Limited lifetime warranty

2020 - 2021 / GM / 1500 / Duramax 3.0L  
2014 - 2021 / GM / 1500 / Gas V6 and V8

PART NO.	FINISH	DESCRIPTION
<a href="#">138051200</a>	Raw	12 Bolt • 9.5"/9.76" Axle
<a href="#">138051210</a>	Brushed	12 Bolt • 9.5"/9.76" Axle
<a href="#">138051220</a>	Black	12 Bolt • 9.5"/9.76" Axle



Available in three finishes



Raw finish

Brushed finish

Black finish



138053000 Rear Differential Cover in raw finish



138051000 Rear Differential Cover in raw finish



138051110 Rear Differential Cover in brushed finish



138051020 Rear Differential Cover in black finish

### 2020+ GM 2500HD/3500HD

PART NO.	FINISH	DESCRIPTION
<a href="#">138053000</a>	Raw	14 Bolt • 11.5"/12.0" Axle
<a href="#">138053010</a>	Brushed	14 Bolt • 11.5"/12.0" Axle
<a href="#">138053020</a>	Black	14 Bolt • 11.5"/12.0" Axle

Available in three finishes



Raw finish

Brushed finish

Black finish

### 2001-2019 GM 2500HD/3500HD

PART NO.	FINISH	DESCRIPTION
<a href="#">138051000</a>	Raw	14 Bolt • 11.5" Axle
<a href="#">138051010</a>	Brushed	14 Bolt • 11.5" Axle
<a href="#">138051020</a>	Black	14 Bolt • 11.5" Axle

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
<a href="#">138051100</a>	Raw	10 Bolt • 5.8" Rear Axle
<a href="#">138051110</a>	Brushed	10 Bolt • 5.8" Rear Axle
<a href="#">138051120</a>	Black	10 Bolt • 5.8" Rear Axle

Available in three finishes



Raw finish

Brushed finish

Black finish

### 2001-2018 GM 2500HD/3500HD

PART NO.	FINISH	DESCRIPTION
<a href="#">238051000</a>	Raw	14 Bolt • 11.5" Axle
<a href="#">238051010</a>	Brushed	14 Bolt • 11.5" Axle
<a href="#">238051020</a>	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 106 for product description.

Truck owner and photo: @robbie\_lml







138041000

138041010

**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-power 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, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- 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
- Limited lifetime warranty

**2011-2020 GM 9.25 IFS 2500HD/3500HD**

PART NO.	FINISH
<a href="#">138041000</a>	Raw
<a href="#">138041010</a>	Brushed
<a href="#">138041020</a>	Black

Available in three finishes



Raw finish



Brushed finish



Black finish

# BUILD YOUR DREAM TRUCK.

Your 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  
 725.238.2002





# 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.

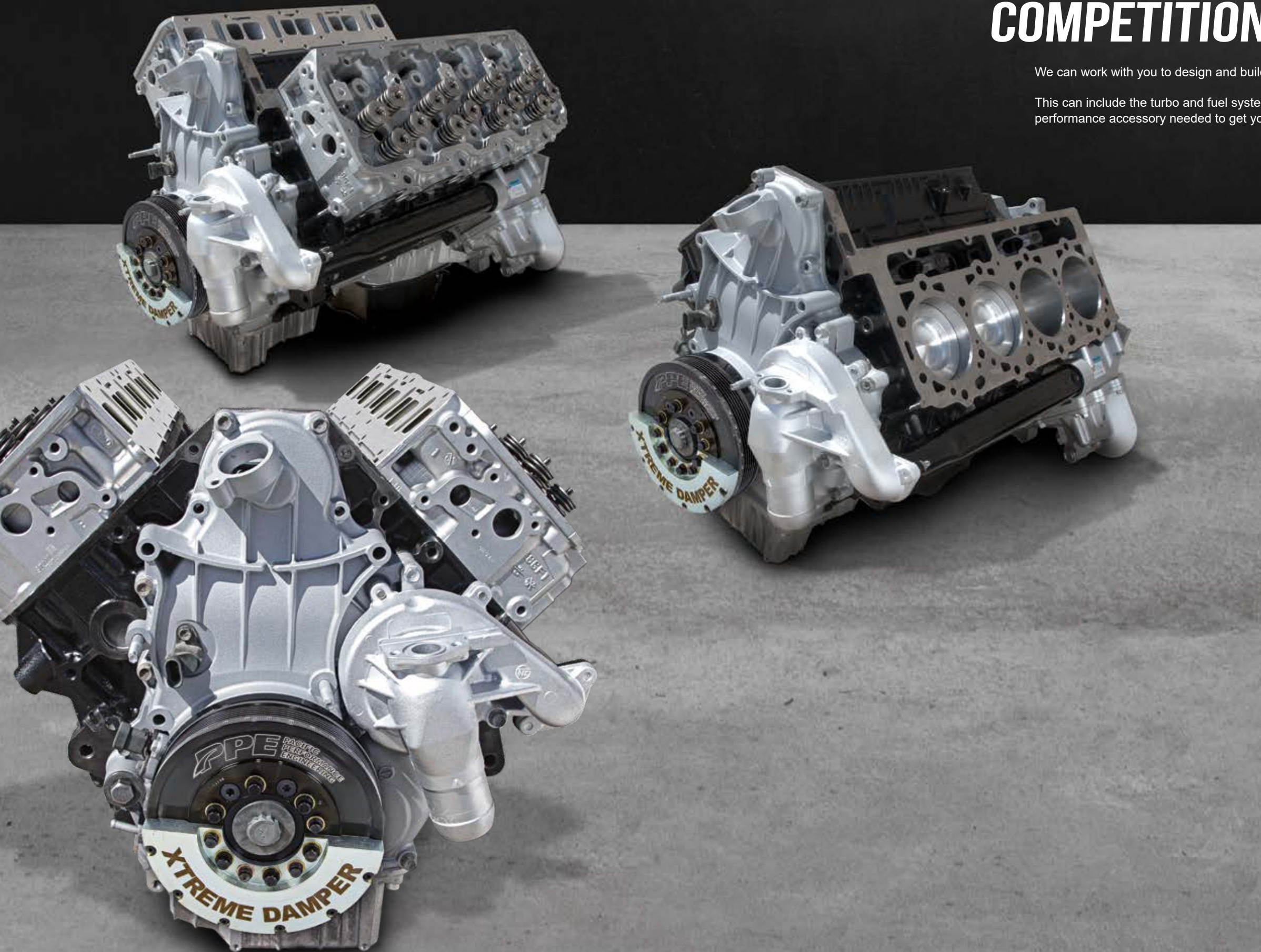
Short-block options begin with original GM parts in Stage 1 and are able to hold more horsepower and torque as the stages increase. If you want a long block engine, you have a choice in cylinder heads, which provide an increase in horsepower and torque as the stage increases. Create the engine of your 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 tanned, 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 Xtreme 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

### 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

### 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

### 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
<a href="#">118030800</a>	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
<a href="#">118010000</a>	2001-2005 LB7/LLY
<a href="#">118010200</a>	2006-2010 LBZ/LMM
<a href="#">118010400</a>	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.



**MAHLE**

Driven by performance

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
- Fastener assembly lube included.

PART NO.	APPLICATION
<a href="#">118034300</a>	2001-2016 GM 6.6L Duramax
<a href="#">118034700</a>	2017+ 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.

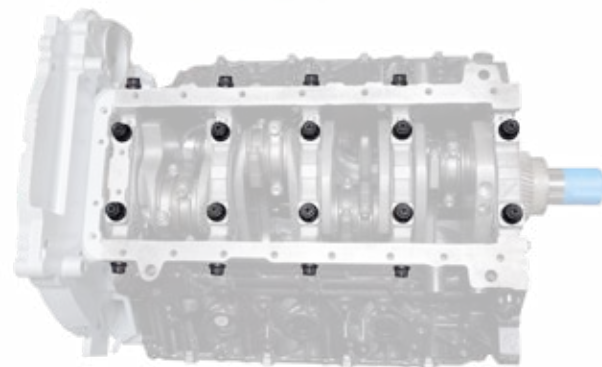
PPE addresses this common failure point in stock assemblies with this premium PPE Main Stud Kit. This kit is precision-engineered for the real-world of diesel competition, and is an excellent performance upgrade to any Duramax engine rebuild. These studs are thread-rolled to Mil-S-8879 specifications 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
<a href="#">118034000</a>	2001-2005 GM 6.6L Duramax
<a href="#">118034100</a>	2006-2016 GM 6.6L Duramax



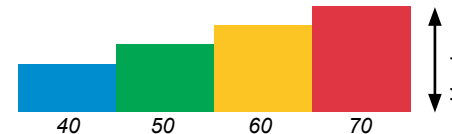
**HIGH PERFORMANCE SILICONE ENGINE MOUNTS**

PPE's High Performance Silicone Engine Mounts are engineered to securely hold the engine while improving ride quality. The large silicone bushings are designed to be replaceable to last the life of the vehicle, handle the heat of the engine bay, and have much better vibration isolation. PPE Duramax Engine Mounts are available in four different bushing hardness options, from 40A to 70A. All installation hardware is included.

**Features:**

- Bushings are designed to be replaceable
- High performance silicone bushings
- Robust support brackets
- Increased strength and durability
- Improved NVH by isolating engine vibrations
- Four bushing hardness options: 40, 50, 60, and 70 (50 is closest to OEM bushing)
- Includes all hardware needed for installation

PART NO.	APPLICATION	DESCRIPTION
<a href="#">168030140</a>	2001-2010 Duramax	40 Hardness/Blue Bushing
<a href="#">168030150</a>	2001-2010 Duramax	50 Hardness/Green Bushing
<a href="#">168030160</a>	2001-2010 Duramax	60 Hardness/Yellow Bushing
<a href="#">168030170</a>	2001-2010 Duramax	70 Hardness/Red Bushing
<a href="#">168030144</a>	Replacement Bushing	40 Hardness (Blue)
<a href="#">168030154</a>	Replacement Bushing	50 Hardness (Green)
<a href="#">168030164</a>	Replacement Bushing	60 Hardness (Yellow)
<a href="#">168030174</a>	Replacement Bushing	70 Hardness (Red)







**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
<a href="#">516010000</a>	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
<a href="#">513010000</a>	2001-2005 GM
<a href="#">513020000</a>	2006-2016 GM



**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
<a href="#">148010400</a>	2 Gauge Pillar - No Speaker
<a href="#">148010500</a>	3 Gauge Pillar - No Speaker
<a href="#">148010600</a>	2 Gauge Pillar - With Speaker
<a href="#">148010700</a>	3 Gauge Pillar - With Speaker

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

PART NO.	DESCRIPTION
<a href="#">148011500</a>	2 Gauge Pillar - No Speaker
<a href="#">148011600</a>	3 Gauge Pillar - No Speaker
<a href="#">148011700</a>	2 Gauge Pillar - With Speaker
<a href="#">148011800</a>	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. 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
<a href="#">148002000</a>	Black without switches
<a href="#">148002100</a>	Black with switches
<a href="#">148001000</a>	Polished without switches
<a href="#">148001100</a>	Polished with switches
<a href="#">148003000</a>	Brushed without switches
<a href="#">148003100</a>	Brushed with switches





*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
<a href="#">416005000</a>	2001-2010 GM 6.6L Duramax



418020000

**MARINE BILLET FLYWHEEL**

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

PART NO.	APPLICATION
<a href="#">418020000</a>	2001-2005 & 11-16 GM 6.6L Duramax
<a href="#">418020600</a>	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, hot rods 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
<a href="#">112011000</a>	2001-2010	Engine only
<a href="#">112010000</a>	2001-2010	Engine and Trans.
<a href="#">112011200</a>	2001-2007	Engine only and Hot+2 E.T. Race
<a href="#">112010200</a>	2001-2007	Engine, Trans. and Hot+2 E.T. Race
<a href="#">112011300</a>	2007.5-2010	Engine only and Hot+2 E.T. Race
<a href="#">112010300</a>	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
<a href="#">112100000</a>	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
<a href="#">111001800</a>	2001-2002 GM 6.6L Duramax LB7
<a href="#">111002000</a>	2003-2004 GM 6.6L Duramax LB7
<a href="#">111002200</a>	2004.5-2005 GM 6.6L Duramax LLY

Includes dash panel insert and harness



**ANALOG V8 TACHOMETER DRIVER**

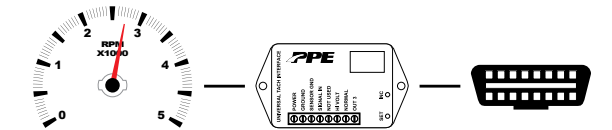
We doubt you have had to equip your Duramax with an old dash, but many of you are equipping an old classic truck, 60's era muscle car or even a ski boat with a Duramax engine. In either case, you have probably discovered that you now need to make your new Duramax electronics package compatible with the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

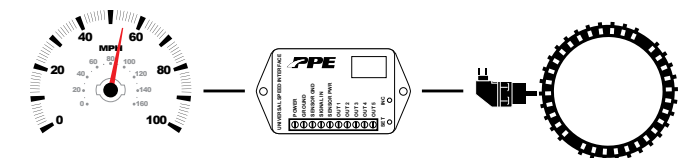
PART NO.	APPLICATION
<a href="#">112030000</a>	2001-2007 GM 6.6L Duramax LB7/LLY/LBZ



**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
<a href="#">122010000</a>	2001-2016 GM 6.6L Duramax





# DODGE • RAM SPECIFIC PERFORMANCE + UPGRADES



## EXPLORE THIS SECTION

- [128 - 132](#) FUEL SYSTEM
- [134 - 139](#) TRANSMISSION UPGRADES
- [141 - 143](#) DIFFERENTIAL COVERS
- [144 - 146](#) COMPETITION
- UPGRADES FOR:
- [148 - 149](#) DURANGO
- [166 - 171](#) GRAND CHEROKEE
- [166 - 171](#) CHALLENGER
- [166 - 171](#) CHARGER
- [166 - 171](#) CHRYSLER 300

Quickly find what you're looking for.



**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**

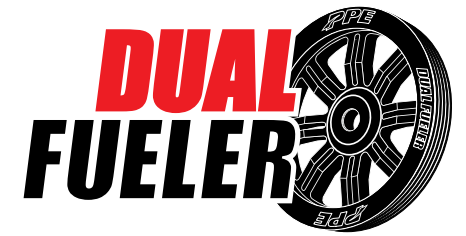
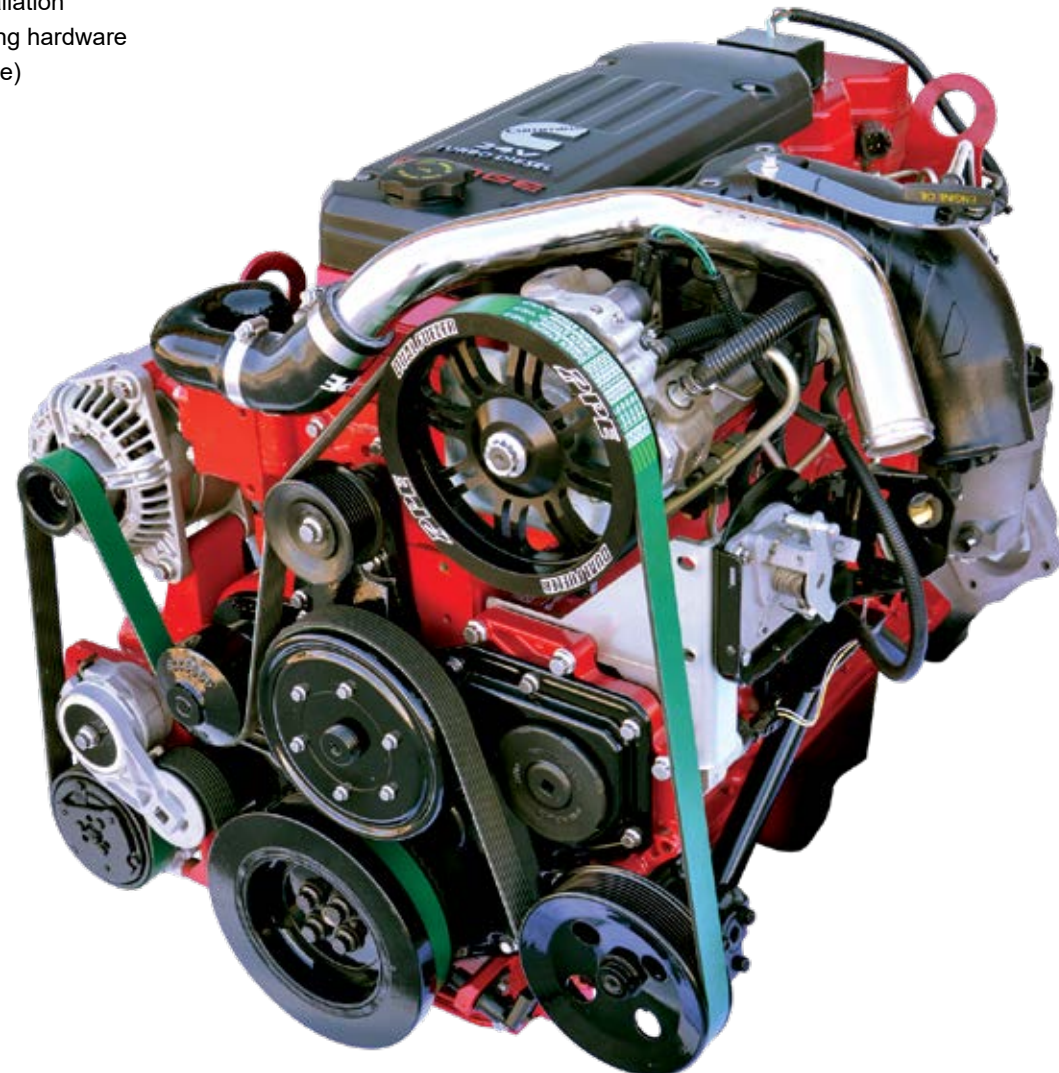
PART NO.	APPLICATION
213001090	816 Style
213001091	7Y-Spoke Style



213001090



213001091



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
<a href="#">213001090</a>	816 Style
<a href="#">213001091</a>	7Y-Spoke Style

**REPLACEMENT DUAL FUELER HEAVY-DUTY SERPENTINE BELT**

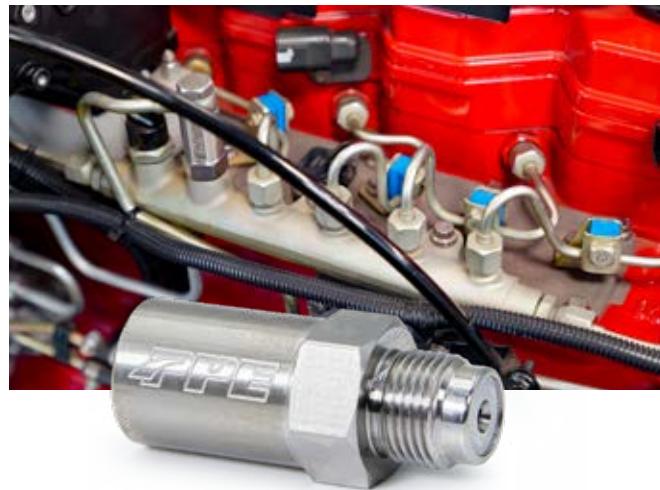
PPE's replacement Dual Fueler Heavy Duty Serpentine Belt handles big horsepower and torque numbers, and still lasts up to 3x longer than a comparable stock unit.



PART NO.	APPLICATION
<a href="#">213001080</a>	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
<a href="#">213072800</a>	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
<a href="#">213076000</a>	2003-2007 Dodge 5.9L Cummins



**RACE FUEL VALVE**

The heat-treated billet stainless steel PPE Race Fuel Valve replaces stock valve 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
<a href="#">113073000</a>	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 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
<a href="#">113073001</a>	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
<a href="#">113072000</a>	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 larger inner diameter of the PPE fitting 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 optimum capacity.

**Features:**

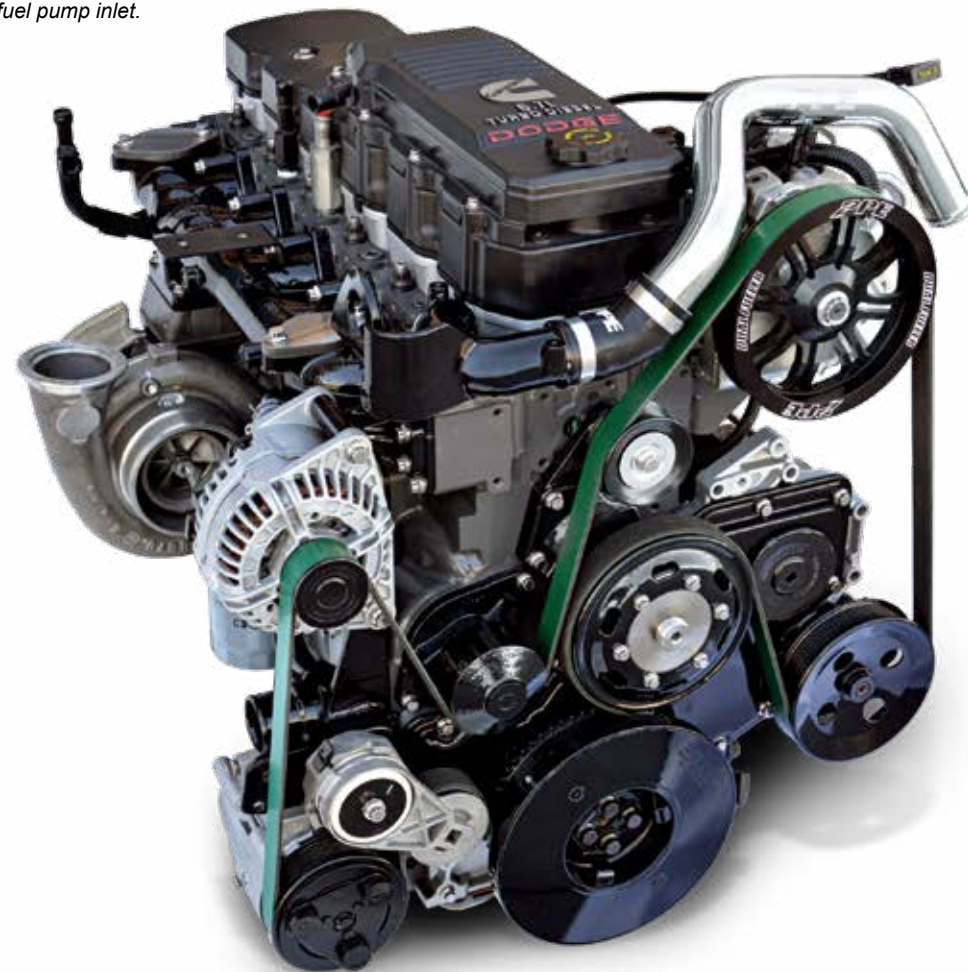
- 70% more flow over stock
- Billet stainless steel

**Dodge 6.7L**

PART NO.	SIZE
<a href="#">113060501</a>	3/8"
<a href="#">113060601</a>	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-power 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 access ports
- Robust side ribs provide additional strength
- Viton O-Ring sealed filter spacer block included
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- 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
<a href="#">228051000</a>	Raw
<a href="#">228051010</a>	Brushed
<a href="#">228051020</a>	Black

Available in three finishes



Raw finish      Brushed finish      Black finish



228051020

**NEODYMIUM MAGNETIC DRAIN PLUG**

To help keep fluid cleaner, PPE includes our exclusive fill plug featuring a high-power Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage. Thread Size 1 1/16"-12

PART NO.	FINISH
<a href="#">128051001</a>	304 Stainless Steel
<a href="#">128051002</a>	Viton O-Ring for Drain Plug

Made specifically for PPE Pans and Covers.



128051001



228052100

Available in three finishes



Raw finish      Brushed finish      Black finish

**HEAVY-DUTY CAST ALUMINUM TRANSMISSION PAN 68RFE**

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 fluid lubricates better which helps increase transmission service life.

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

**Features:**

- Increases fluid capacity by 3 quarts
- 3/4" inch external fins improve heat dissipation, lower transmission fluid temperature and increase housing strength
- 1" internal baffles further improve heat dissipation and reduce sloshing
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- One-inch Neodymium magnet-equipped 304 stainless steel drain plug with Viton O-ring
- 1/8" and 1/4" NPT access ports
- Gussets provide extra support to top flange and increase overall robustness
- Compatible with OEM gasket
- Compatible with PPE Premium High-Efficiency Transmission Fluid Filter (228052150)
- Limited lifetime warranty

**Applications:**

2007.5-2021 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
<a href="#">228052100</a>	Raw
<a href="#">228052110</a>	Brushed
<a href="#">228052120</a>	Black



228052150

Stock

See page 139 for replacement 68RFE PPE Premium High-Efficiency Transmission Fluid Filter 228052150





**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. 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-power Neodymium magnet-equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

**Features:**

- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- Increased heat dissipation
- External cooling fins reduce oil temps
- Increased fluid capacity
- Includes replaceable filter
- 1/8" NPT 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
<a href="#">228053000</a>	Raw
<a href="#">228053010</a>	Brushed
<a href="#">228053020</a>	Black

Replacement filter also available for purchase separately (see page 138 or details)

Available in three finishes



Raw finish      Brushed finish      Black finish



228053010



See page 138 for replacement 8HP70 PPE Transmission Pan Filter 228058600



228053200



**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-power Neodymium magnet-equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

**Features:**

- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- Increased heat dissipation
- External cooling fins reduce oil temps
- Increased fluid capacity
- 1/8" NPT access port
- Billet 304 stainless steel Neodymium magnet-equipped drain plug
- Limited lifetime warranty

**Applications:**

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

PART NO.	FINISH
<a href="#">228053200</a>	Raw
<a href="#">228053210</a>	Brushed
<a href="#">228053220</a>	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 farther down into the fluid. This may seem obvious, but the Viton O-ring makes all the difference.

PART NO.	APPLICATION
	1966-1989-36RH, 37RH
	1989-1995-46RH, 47RH, A-518
<a href="#">228051001</a>	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 136). Keep one on hand for your next service. Simply drop the pan, replace the filter, reinstall, and fill with fluid.

PART NO.	APPLICATION
<a href="#">228058600</a>	PPE Heavy-Duty Cast Aluminum Transmission Pans 8HP70 (page 136)



### NEODYMIUM MAGNETIC DRAIN PLUG

To help keep fluid cleaner, PPE offers our exclusive fill plug featuring a high-power Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage. Thread Size 1 1/16"-12

PART NO.	MATERIAL
<a href="#">128051001</a>	304 Stainless Steel
<a href="#">128051002</a>	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 Dodge/Ram.

The OEM part has restrictive internal passages. When the OEM valve fails in the closed position the transmission fluid doesn't reach your cooler. This can be caused by mechanical failure or debris. The result of this 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 Valve eliminates the extremely restrictive mechanical factory valve which maximizes fluid flow from the transmission cooler. For further protection, a high-power 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
<a href="#">225065000</a>	2013-2018 Ram 2500/3500
<a href="#">225065100</a>	2019+ Ram 2500/3500

### 68RFE PREMIUM HIGH-EFFICIENCY TRANSMISSION FLUID FILTER

PPE has designed a superior filter for the 68RFE transmission. This filter upgrade features an extended filter cup that houses 57% more specially engineered 10 micron filter media. Additional engineered features include a steel adapter, 81% larger passages for higher flow, a spring loaded anti-drain-back valve with a silicone O-ring, a coil spring to eliminate blow-by and a perforated metal center tube that provides core-strength for the filter media.

Compare these upgraded features to the stock OEM filter and you will understand that the PPE Premium High-Efficiency Transmission Fluid Filter is your best choice for the best performance.

#### FEATURES:

- 178 square inches of specially engineered 10 micron media
- Steel adapter
- Spring loaded O-ring sealed silicone anti-drain-back valve
- Perforated metal center tube provides core-strength for filter media
- Extended filter cup houses 57% more media than OEM
- 81% larger passages for higher flow
- Coil spring eliminates oil blow-by
- Integrated internal magnet with retainer
- Compatible with conventional and synthetic oils

PART NO.	APPLICATION
<a href="#">228052150</a>	2007.5-2018 Ram 2500/3500 6.7L with 6-speed 68RFE Transmission





# 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 Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal 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-power Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage. Limited lifetime warranty.



Truck owner:  
Andrew Villablanca



238053000 Rear Differential Cover in raw finish



238051020 Rear Differential Cover in black finish



138051020 Rear Differential Cover in black finish



238050010 Rear Differential Cover in brushed finish

### 2019-2021 Dodge/Ram 2500/3500

PART NO.	FINISH
<a href="#">238053000</a>	Raw
<a href="#">238053010</a>	Brushed
<a href="#">238053020</a>	Black

Available in three finishes



Raw finish

Brushed finish

Black finish

### 2003-2018 Dodge/Ram 2500/3500 w/ 14 bolt

PART NO.	FINISH
<a href="#">238051000</a>	Raw
<a href="#">238051010</a>	Brushed
<a href="#">238051020</a>	Black

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
<a href="#">138051000</a>	Raw
<a href="#">138051010</a>	Brushed
<a href="#">138051020</a>	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
<a href="#">238050000</a>	Raw
<a href="#">238050010</a>	Brushed
<a href="#">238050020</a>	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 helps 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-power Neodymium magnet-equipped fill plug pulls 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, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Reduction in differential fluid temperatures
- 1/2" external cooling fins
- 7/8" internal heat sinks
- 1/8" NPT access port
- Adds additional strength to gear housing
- Billet 304 stainless steel Neodymium magnet-equipped fill plug
- Oil scraper design as used in NASCAR racing engines
- Limited lifetime warranty



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	304 Stainless steel 1 1/16"-12
128051002	O-Ring for PPE Drain Plug

Made specifically for PPE Pans and Covers.



**See how it works!**

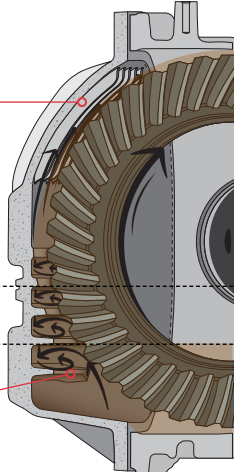
Scrapers draw excess oil off gear set, increasing MPG and increasing cooling ability of heat sinks similar to that of high-performance engines including NASCAR racing engines.

Oil flow fins/  
heat sinks

Static fill level

Operational level

Oil scrapers/  
heat sinks







Truck owner (2021):  
Saul Flores

# 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
<a href="#">516010000</a>	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 if 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
<a href="#">513010000</a>	2003-2017 Dodge • Ram





**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.

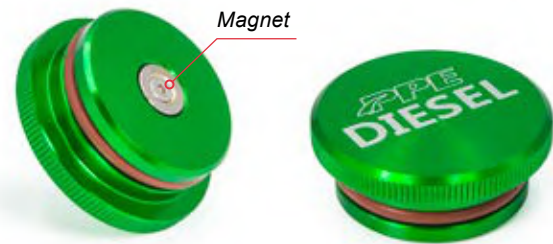


PART NO.	APPLICATION
<a href="#">218034300</a>	1998.5+ Dodge 5.9L/6.7L 24V

**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
<a href="#">273001000</a>	2013-2018 Ram EcoDiesel and Ram 6.7L 2500HD-3500HD



Magnet

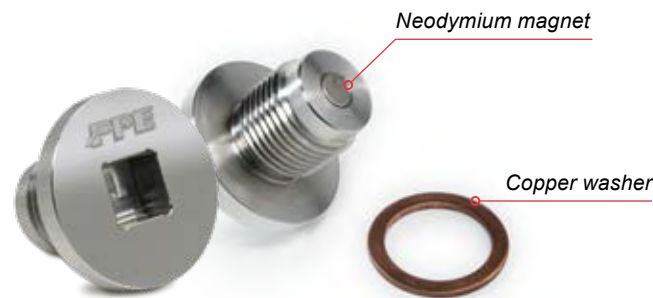
**OIL DRAIN PLUG**

PPE's CNC machined, hardened stainless steel Billet Oil Drain Plug comes equipped with a high-power Neodymium magnet to pull 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. Thread Size 1 1/16"-12

**Includes:**

- Copper washer

PART NO.	APPLICATION
<a href="#">214052001</a>	Dodge 5.9L 6.7L



Neodymium magnet

Copper washer

# 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 OIL PAN**

Whether your stock stamped steel oil pan has been damaged, rusted, 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.

**Features:**

- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Gussets add strength to the housing
- Cast fins increase surface area and use air flow to cool oil better than stock
- Includes high-power Neodymium magnet equipped, billet stainless steel drain plug
- Available in Raw, Brushed and Black finishes
- Limited lifetime warranty



Available in three finishes



**2011+ Dodge Durango 3.6L V6 Gas**  
**2011+ RAM 3.6L V6 Gas**  
**2011-2018 RAM 1500**  
**2019+ RAM 1500 Classic**

PART NO.	FINISH
<a href="#">214052200</a>	Raw
<a href="#">214052210</a>	Brushed
<a href="#">214052220</a>	Black

**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-power Neodymium magnet-equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

**Features:**

- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Increased heat dissipation
- External cooling fins reduce oil temps
- 1.5 Quart increased fluid capacity
- Includes replaceable filter
- High-Power Neodymium magnet-equipped billet stainless drain plug
- 1/8" NPT access port
- Limited lifetime warranty



Replacement Transmission Pan Filter 228058700

Available in three finishes



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

PART NO.	FINISH
<a href="#">228053400</a>	Raw
<a href="#">228053410</a>	Brushed
<a href="#">228053420</a>	Black
<a href="#">228058700</a>	Replacement Transmission Pan Filter



**FEATURES:**

- Billet aluminum
- Neodymium magnet-equipped service plug with O-ring
- Easy to install

PART NO.	APPLICATION
<a href="#">225065200</a>	2016 - 2021+ Jeep Grand Cherokee with 8spd ZF Transmission 2016 - 2021+ Dodge Durango with 8spd ZF Transmission
<a href="#">225065300</a>	2015 - 2021+ Dodge Challenger with 8spd ZF Transmission 2012 - 2021+ Dodge Charger with 8spd ZF Transmission 2013 - 2021+ Chrysler 300 with 8spd ZF Transmission

**TRANSMISSION FLUID THERMAL BYPASS VALVE**

A PPE Transmission Fluid Bypass Valve will add another measure of protection. Increase fluid flow to transmission cooler with this easy-to-install billet aluminum PPE Transmission Fluid Thermal Bypass Valve for your Dodge or Jeep SUV's.

The OEM part has restrictive internal passages. When the OEM valve fails in the open position, the transmission fluid does not reach your cooler. This can be caused by mechanical failure or debris. The 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 Valve eliminates the extremely restrictive mechanical factory valve which maximizes fluid flow from the transmission cooler.

For further protection, a high-power 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.





# FORD-SPECIFIC

## PERFORMANCE + UPGRADES

### EXPLORE THIS SECTION

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- 156 - 159 TRANSMISSION UPGRADES
- 160 - 161 OIL SYSTEM
- 162 - 163 DIFFERENTIAL COVERS
- 164 - 165 COMPETITION • RACE





# OEM REPLACEMENT UP-PIPES.



Leaky up-pipes 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:**

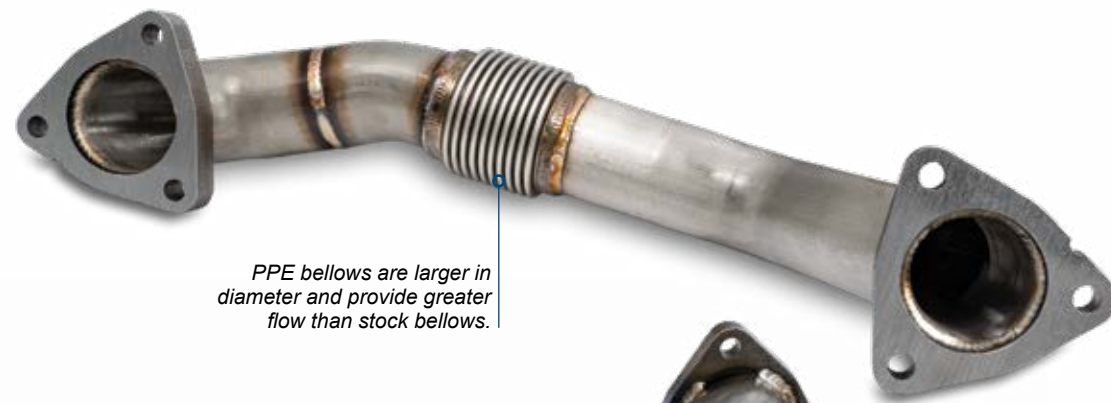
- Free-flowing 304 stainless steel inner liner bellows
- 11-gauge Stainless steel tubing
- Wall thickness: .120"
- Outside diameter: 2"



316119504



316119503



PPE bellows are larger in diameter and provide greater flow than stock bellows.

316119508

PART NO.	APPLICATION	DESCRIPTION
<a href="#">316119503*</a>	2003.5-2004 Ford 6.0L	Round EGR Cooler (tall spout)
<a href="#">316119504*</a>	2004-2007 Ford 6.0L	Square EGR Cooler (square spout)
<a href="#">316119508</a>	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

## IMPROVED FLOW OVER STOCK



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
<a href="#">316129503</a>	2003-2004 Ford 6.0L
<a href="#">316129504</a>	2004-2007 Ford 6.0L
<a href="#">316129508</a>	2008-2010 Ford 6.4L (H)
<a href="#">316129518</a>	2004-2007 Ford 6.0L (V)

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
<a href="#">316129505</a>	2004-2007 Ford 6.0 Diesel



116454019

116454018

### MASS AIR FLOW SENSOR MOUNTS

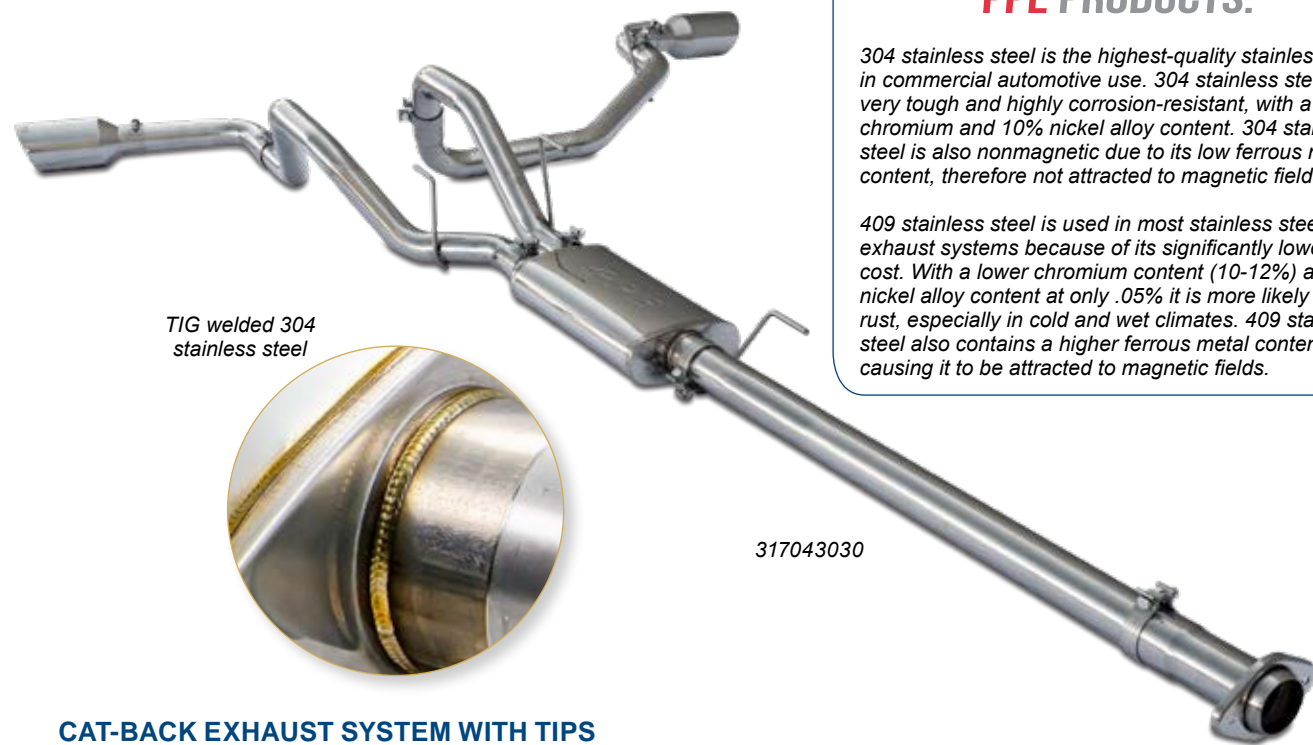
If you're building a custom intake for your Power Stroke you'll need a new place to safely mount the Mass Air Flow sensor (MAF). These fabricator-style MAF mounts come in mild steel or aluminum to suite your needs. They come raw so they're ready to weld on. Includes new 304 stainless steel hardware to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

PART NO.	APPLICATION	MATERIAL
<a href="#">116454019</a>	2011-2017 Ford 6.7L	Mild steel
<a href="#">116454018</a>	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.

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.

**Limited lifetime warranty on PPE 304 Stainless Steel Exhaust Systems. One-year warranty on optional Ceramic Black Coated Tip finish.**

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
317043020	2015-2020 F-150 V8 5.0L V6 3.5L and 2.7L/3.5L EcoBoost Gas 2WD/4WD	Fully polished tube with black 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 TRANSMISSION PANS.

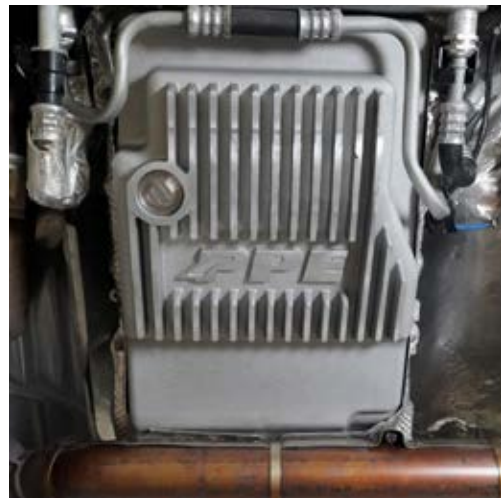
## HEAVY-DUTY CAST ALUMINUM DEEP TRANSMISSION PAN

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

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

**Features:**

- Permanent replacement for stock plastic pan
- 1.72 quart additional fluid capacity
- Robust gussets provide added strength
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- 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
- 1/8" NPT access port for optional temperature sensor
- Compatible with OEM gasket
- Limited lifetime warranty



328053100

Available in three finishes



Raw finish

Brushed finish

Black finish

2017+ Ford F150 with 10R80 Transmission  
2018+ Ford F-150 Raptor with 10R80 Transmission

PART NO.	FINISH
<a href="#">328053100</a>	Raw
<a href="#">328053110</a>	Brushed
<a href="#">328053120</a>	Black

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 pan. Cast aluminum construction with exterior fins transfer heat away from transmission internals. Aluminum dissipates heat better than the stock plastic, so fluid takes longer to heat up allowing for lower transmission temperatures, which help to extend transmission life.

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

**Features:**

- Permanent replacement
- External cooling fins reduce fluid temps
- Robust side ribs provide added strength
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Flat bottom - solves the complete fluid drainage problem
- Includes Neodymium magnet equipped, billet 304 stainless steel drain plug
- 1/8" NPT access port for optional temperature sensor
- Compatible with OEM gasket
- Limited lifetime warranty



328053210



Available in three finishes



Raw finish

Brushed finish

Black finish

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

PART NO.	FINISH
<a href="#">328053200</a>	Raw
<a href="#">328053210</a>	Brushed
<a href="#">328053220</a>	Black





### HEAVY-DUTY CAST ALUMINUM TRANSMISSION PAN

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

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

**Features:**

- Permanent replacement
- Deep design increases fluid capacity by 8 quarts
- 3/4" inch external fins improve heat dissipation, lower transmission fluid temperature, and increase strength
- 1" internal baffles increase heat dissipation and reduce fluid sloshing
- Gussets provide support to top flange and increase overall robustness
- Flat bottom allows for complete fluid drainage
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- One-inch high-power Neodymium magnet-equipped stainless steel drain plug with Viton O-ring
- 1/8" NPT access port for optional temperature sensor
- Compatible with OEM gasket and filter
- Limited lifetime warranty



#### 2020+ FORD Super Duty 6.7L Power Stroke V8 Diesel Truck with 10 Speed 10R140 Transmission

PART NO.	FINISH
<a href="#">328053300</a>	Raw
<a href="#">328053310</a>	Brushed
<a href="#">328053320</a>	Black

Available in three finishes



Raw finish      Brushed finish      Black finish

### 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 high-power Neodymium magnet-equipped billet, 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
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Includes Neodymium magnet equipped, billet stainless steel drain plug
- 1/8" NPT access port for optional temperature sensor
- Limited lifetime warranty



#### 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
<a href="#">328052000</a>	Raw
<a href="#">328052010</a>	Brushed
<a href="#">328052020</a>	Black

Available in three finishes



Raw finish      Brushed finish      Black finish

### 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 alloy 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-power 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
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- High-power Neodymium magnet equipped, billet 304 stainless steel drain plug
- 1/8" and 1/4" NPT access port for optional temperature sensor
- Retains use of factory oil filter Ford part number 3C3Z-7A098-AA
- Limited lifetime warranty



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
<a href="#">328051000</a>	Raw
<a href="#">328051010</a>	Brushed
<a href="#">328051020</a>	Black





### HEAVY-DUTY CAST ALUMINUM OIL PAN

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

We've addressed the major issues associated with the original Ford factory oil pan. The PPE 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 high-power 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, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Side gussets provide additional strength
- 1/4" NPT access port
- Billet hardened stainless steel, Neodymium-equipped drain plug with a copper washer
- Zinc-plated Allen head bolts
- Limited lifetime warranty



**2011-2021 Ford 6.7L Power Stroke Diesel**

PART NO.	FINISH
<a href="#">314052100</a>	Raw
<a href="#">314052110</a>	Brushed
<a href="#">314052120</a>	Black

Available in three finishes



Raw finish

Brushed finish

Black finish

### HEAVY-DUTY CAST ALUMINUM OIL PAN

This new engine oil pan is engineered as a performance replacement for the flimsy stamped steel factory pan. Cast in high-strength aluminum alloy, this thick pan radiates heat more efficiently to reduce engine oil temperatures.

External fins add strength and take advantage of free flowing air. The CNC machined grooves increase effective surface area and also help keep your oil temperature down. The addition of CNC inner flange grooves promote a complete seal.

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

**Features:**

- External fins improve heat dissipation to lower oil temperature and increase strength.
- CNC machined outer grooves increase effective surface area to improve heat dissipation.
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- High-power Neodymium magnet-equipped hardened stainless steel drain plug with Viton O-ring.
- CNC machined inner flange grooves promote a complete seal.
- Limited lifetime warranty



**2018+ FORD F-150 3.0L Diesel**

PART NO.	FINISH
<a href="#">314052200</a>	Raw
<a href="#">314052210</a>	Brushed
<a href="#">314052220</a>	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 efficient heat transfer. 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, no feeding the EGR
- Supplies cooler oil to your injectors and high-pressure oil pump
- Viton O-ring and gasket kit available

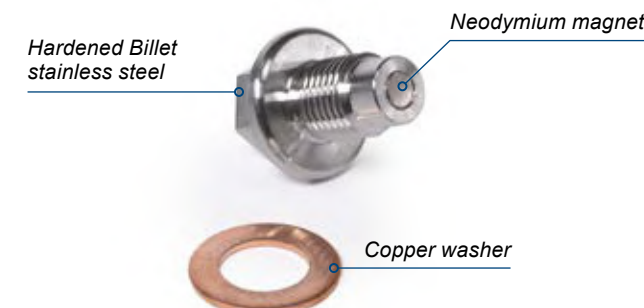
**Ford Power Stroke**

PART NO.	APPLICATION	DESCRIPTION
<a href="#">314030310*</a>	2003-2007 6.0L	with gasket kit
<a href="#">314030300</a>	2003-2007 6.0L	without gasket kit
<a href="#">314030410*</a>	2007.5-2010 6.4L	with gasket kit
<a href="#">314030400</a>	2007.5-2010 6.4L	without gasket kit

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

### PPE HARDENED STAINLESS STEEL NEODYMIUM MAGNETIC ENGINE OIL PAN DRAIN PLUG

PPE's CNC machined, hardened Billet Stainless Steel Oil Drain Plug comes equipped with a high-power 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
<a href="#">114052001</a>	PPE engine oil pan	M14 -1.5

Does not fit stock applications.





**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-power Neodymium magnet-equipped fill plug will pull harmful ferrous metal particles 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
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- Billet 304 stainless steel Neodymium magnet equipped fill plug
- Oil scraper design as used in professional racing oil systems
- Limited lifetime warranty

1990 – 2020 / Ford / F-250-350 / 12 Bolts / 10.25"-10.5" Rear Gear  
 2000 – 2005 / Ford / Excursion / 12 Bolts / 10.25"-10.5" Rear Gear

PART NO.	FINISH
338051000	Raw
338051010	Brushed
338051020	Black



Available in three finishes



**HEAVY-DUTY CAST ALUMINUM REAR DIFFERENTIAL COVERS**

Keep your Ford rear differential running cool and clean with an upgraded cover featuring industry-leading fluid cooling. 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-power 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
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- Significant reduction in differential fluid temps
- Adds additional strength to gear housing
- Designed with internal ribs that add strength and rigidity
- Neodymium magnet equipped, hardened billet stainless steel drain plug
- Limited lifetime warranty

Available in three finishes



1997+ / Ford / F-150 / 12 Bolts / 9.75" Rear Gear  
 1997 - 2001 / Ford Expedition / 12 Bolts / 9.75" Rear Gear  
 1997 - 2001 / Lincoln Navigator / 12 Bolts / 9.75" Rear Gear  
 1997 - 2002 / Ford / Econoline / 12 Bolts / 9.75" Rear Gear  
 2015 - 2020 / Ford / Transit / 12 Bolts / 9.75" Rear Gear

PART NO.	FINISH
338051200	Raw
338051210	Brushed
338051220	Black



**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-power Neodymium magnet that will pull harmful ferrous metal particles right out of your oil before they have a chance to do damage.

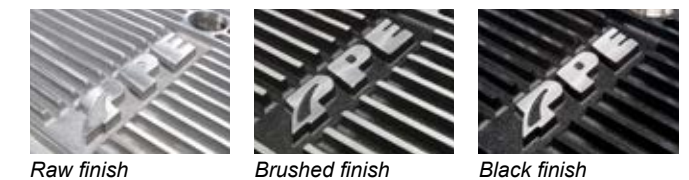
**Features:**

- Increased oil capacity
- Adds additional strength to gear housing
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- Internal heat sinks and external fins for optimal cooling
- Billet 304 stainless steel Neodymium magnet-equipped fill plug
- Oil scraper design as used in professional racing oil systems
- Limited lifetime warranty

1999 - 2020+ / Ford / F-250-350 / 10 Bolts / 9.75" Front Gear

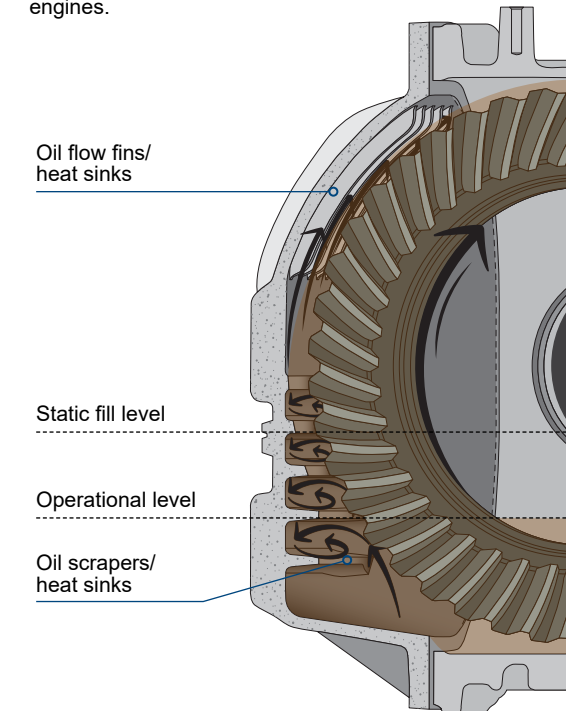
PART NO.	FINISH
338041000	Raw
338041010	Brushed
338041020	Black

Available in three finishes

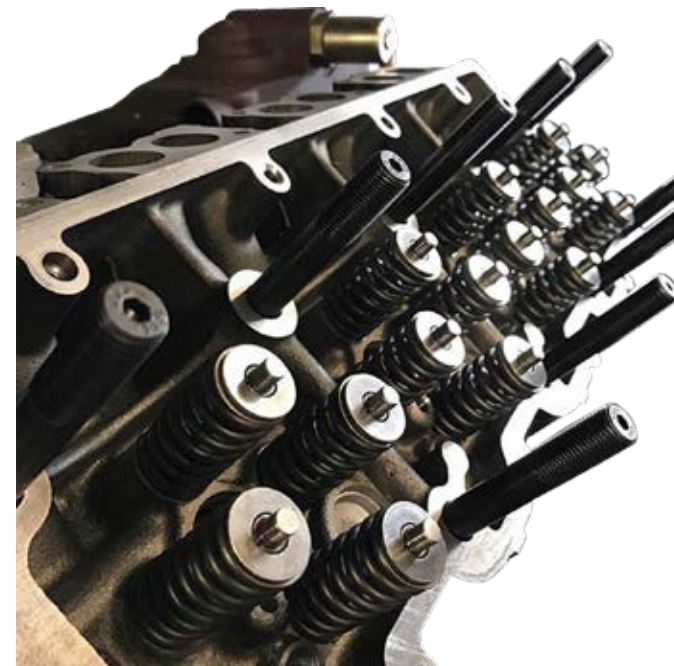


See how it works!

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.







**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
<a href="#">318034400</a>	2003-2007 Ford 6.0L Power Stroke

**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
<a href="#">516010000</a>	Any boosted vehicle

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





# OVER THE RIVER AND THROUGH THE WOODS...

Cast products for superior cooling.



## HEAVY-DUTY ALUMINUM OIL PAN

Whether your thin, stamped steel stock oil pan has been damaged, rusted, 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:

- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- 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
<a href="#">214052200</a>	Raw
<a href="#">214052210</a>	Brushed
<a href="#">214052220</a>	Black

## HEAVY-DUTY ALUMINUM TRANSMISSION PAN

There is no need to discard the pan assembly when you service your ZF 8-speed transmission. PPE has engineered an exclusive removable and replaceable fluid filter and permanent replacement pan made from thick cast aluminum. This eliminates the high cost of replacing the factory pan. Now simply remove, replace filter and reinstall.

Holding 1.0 quart of extra fluid, the high-strength aluminum features external cooling fins for optimal heat dissipation. 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-power Neodymium magnet-equipped drain plug to keep harmful ferrous metal contaminants out of the transmission internals.

### Features:

- 1.0 Quart increased fluid capacity
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- External cooling fins reduce oil temps
- Includes replaceable filter
- High-power Neodymium magnet-equipped billet stainless drain plug pulls harmful ferrous metal contaminants from the fluid
- 1/8" NPT access port for optional temperature sensor
- Limited lifetime warranty



Replacement Transmission Pan Filter 228058700

PART NO.	FINISH
<a href="#">228053400</a>	Raw
<a href="#">228053410</a>	Brushed
<a href="#">228053420</a>	Black
<a href="#">228058700</a>	Replacement Transmission Pan Filter

Available in three finishes



Raw finish

Brushed finish

Black finish

2014-2021+ Jeep Grand Cherokee (3.6L V6 and 3.0L V6 EcoDiesel with 845RE or 850RE transmission).

2014-2021+ Jeep Grand Cherokee (3.0L V6 EcoDiesel, 5.7L V8 Gas and 6.4L V8 Gas with 8HP70 or 8HP75 transmission).

2015-2021+ Dodge Charger - 5.7L V8 Gas and 6.4L V8 Gas with an 8HP70 / 8HP75 Transmission.

2015-2021+ Dodge Challenger - 5.7L V8 Gas and 6.4L V8 Gas with an 8HP70 / 8HP75 Transmission.

BMW - 2010-2021+ 2 Series, 3 Series, 4 Series, 5 Series, 6 Series, 7 Series, X Series, Z series and M-Versions

## TRANSMISSION FLUID THERMAL BYPASS VALVE

A PPE Transmission Fluid Bypass Valve will 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 your Dodge or Jeep SUV's.

The OEM part has restrictive internal passages. When the OEM valve fails in the open position, transmission fluid does not reach your cooler. This can be caused by mechanical failure or debris. The 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 removable Neodymium magnet-equipped service plug traps ferrous debris and can be accessed to remove particles from the system. The factory bypass valve does not have this feature.



### FEATURES:

- Billet aluminum
- Neodymium magnet-equipped service plug with O-ring
- Easy to install
- Limited lifetime warranty

PART NO.	APPLICATION
<a href="#">225065200</a>	2016 - 2021+ Jeep Grand Cherokee with 8spd ZF Transmission 2016 - 2021+ Dodge Durango with 8spd ZF Transmission





### 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. Additional fluid 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:**

- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation
- Neodymium magnet-equipped billet stainless steel drain plug pulls harmful ferrous metal contaminants from the fluid
- Includes replaceable filter (228058600 or 228058700)
- 1/8" NPT access port for optional temperature sensor
- Limited lifetime warranty



Two-and-a-half quarts additional fluid capacity

One-and-a-half quarts additional fluid capacity

**2018+ Jeep JL/JT Wrangler (all models) with 8 Speed Transmission**

PART NO.	FINISH
<a href="#">228153000</a>	Raw
<a href="#">228153010</a>	Brushed
<a href="#">228153020</a>	Black
<a href="#">228058600</a>	Replacement Transmission Pan Filter

**2018+ Jeep JL/JT Wrangler (all models) with 8 Speed Transmission**

PART NO.	FINISH
<a href="#">228153400</a>	Raw
<a href="#">228153410</a>	Brushed
<a href="#">228153420</a>	Black
<a href="#">228058700</a>	Replacement Transmission Pan Filter



Replacement Transmission Pan Filter 228058600

Available in three finishes



Raw finish

Brushed finish

Black finish



### HEAVY-DUTY CAST ALUMINUM ENGINE OIL PAN

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

Thick cast aluminum is far superior to the stock 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 High-power Neodymium magnet equipped, billet, hardened Stainless steel drain plug is included. The Neodymium magnet pulls ferrous metals out of the oil before they do damage. The factory plug has no magnet and provides no protection.

**Features:**

- Flat bottom for a complete oil drain
- Increased oil capacity
- Half-inch external fins improve heat dissipation, lower oil temperature, and provide extra rigidity.
- Internal baffles improve heat dissipation and reduce oil sloshing
- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- High-power Neodymium magnet-equipped billet, hardened stainless steel drain plug with copper washer and safety wire provision
- Gussets provide extra support to top flange and increase overall robustness
- CNC machined flange grooves promote a complete seal
- Limited lifetime warranty



Available in three finishes



Raw finish

Brushed finish

Black finish

**2018+ JEEP Wrangler JL with 2.0T gas  
2019+ JEEP Cherokee with 2.0T gas**

PART NO.	FINISH
<a href="#">214053000</a>	Raw
<a href="#">214053010</a>	Brushed
<a href="#">214053020</a>	Black





### HEAVY-DUTY CAST ALUMINUM TRANSMISSION PAN

Whether your stock stamped steel transmission pan has been damaged, rusted, or you just want a bolt-on upgrade with better performance, the PPE Cast Aluminum Transmission Pan is your best choice for increased strength and lower fluid temperatures.

Cast aluminum is far superior to the stock stamped steel for cooling transmission fluid. 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 High-Power Neodymium Magnet Equipped, Billet, Hardened Stainless Steel Drain Plug pulls ferrous metals out of the fluid before they do damage. The factory plug has no magnet and provides no protection.

**Features:**

- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- Flat bottom for a complete fluid drain
- Designed with internal ribs and external gussets that add strength and rigidity to the housing
- High-power Neodymium magnet equipped, hardened billet stainless steel drain plug
- 1/8" NPT access port for optional temperature sensor
- Limited lifetime warranty



Available in three finishes



- 2012 - 2018 Jeep Wrangler (JK) V6 GAS
- 2005 - 2014 Chrysler 300 V6 & V8 GAS
- 2008 - 2014 Dodge Challenger V6 & V8 GAS
- 2006 - 2019 Dodge Charger V6 & V8 GAS
- 2011 - 2013 Dodge Durango V6 GAS
- 2005 - 2013 Jeep Grand Cherokee V6 & V8 GAS

PART NO.	FINISH
<a href="#">228053500</a>	Raw
<a href="#">228053510</a>	Brushed
<a href="#">228053520</a>	Black

### HEAVY-DUTY NODULAR CAST IRON DIFFERENTIAL COVER

This innovative cover is made from thick, cast, high-strength nodular iron for maximum protection and is designed with transverse gussets that add strength and rigidity to the housing to handle the high torsion. Engineered to optimize approach and departure angles. The cover has been designed so the provided hardware is recessed, keeping them out of harm's way.

This brand new cover has both high and low oil check ports to accommodate pinion angle changes that come with lifting your Jeep, and a convenient top-fill port for easy oil servicing. Each of the three ports include a high-power Neodymium magnet plug that pull ferrous metal out of the oil, helping keep your gears protected.

Your Jeep's differentials take a serious beating out there. Don't take chances. Replace your thin stamped steel stock diff covers. Protect your diffs from the toughest terrain with this easy upgrade .

**Features:**

- Thick, cast nodular iron for superior protection and durability
- Designed with transverse gussets that add strength and rigidity to the gear housing
- High and low check ports and a top-fill port for easy servicing
- Three Neodymium magnet-equipped, hardened billet stainless steel service plugs
- Black powder coat finish
- Designed specifically for front and rear Dana 44 differentials
- Optimized approach and departure angles
- Limited lifetime warranty



- 2007 - 2018 Jeep Wrangler Dana 44

PART NO.	FINISH
<a href="#">238053120</a>	Black



### HEAVY-DUTY CAST ALUMINUM ENGINE OIL PAN

Whether your factory stamped steel oil pan has become damaged, rusted, or you just want an easy bolt-on upgrade with better performance, the PPE Cast Aluminum Oil Pan is your best choice for increased strength and lower oil temps.

Thick cast aluminum is superior to stamped steel for cooling engine oil. PPE has engineered deep exterior fins that increase surface area and takes advantage of underside air flow to lower oil temps. Gussets provide strength and rigidity to the housing. The high-power Neodymium magnet equipped, hardened billet stainless steel drain plug attracts and holds damaging ferrous metals. The factory plug has no magnet and provides no protection.

Upgrade performance, looks and quality with this easy install.

**Features:**

- Cast, high-grade A356.0-T6 heat treated aluminum alloy for optimal heat dissipation and reduced engine noise
- External gussets add strength and rigidity
- Flat bottom for complete oil drainage
- Designed with internal ribs and external gussets that add strength and rigidity
- High-power Neodymium magnet-equipped hardened billet stainless steel drain plug with a copper washer and safety wire provision
- 1/8" NPT access port for optional temperature sensor
- Limited lifetime warranty



Available in three finishes



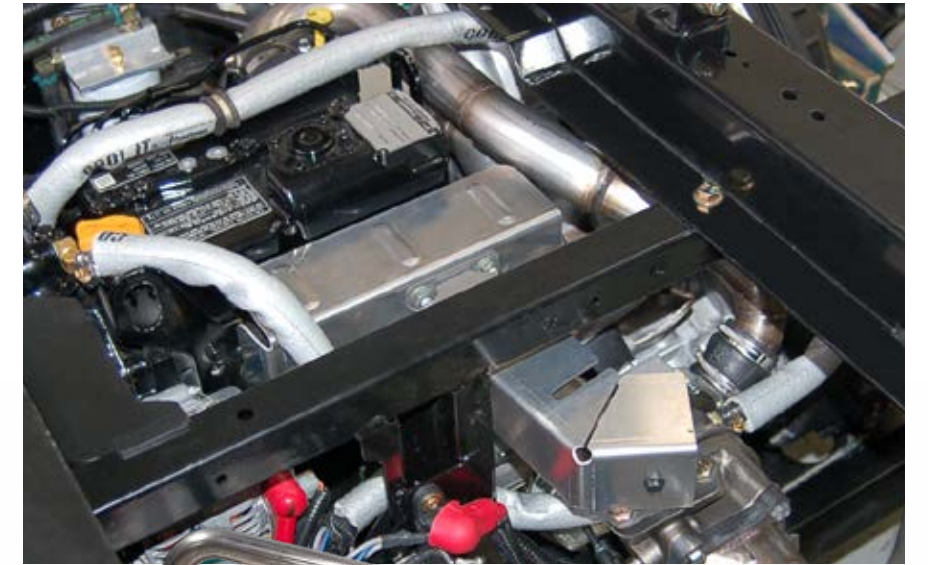
- 2012 - 2018 Jeep Wrangler (JK) 3.6L
- 2011 - 2019 Dodge Challenger 3.6L
- 2011 - 2019 Dodge Charger 3.6L
- 2011 - 2019 Chrysler 300 3.6L

PART NO.	FINISH
<a href="#">214054000</a>	Raw
<a href="#">214054010</a>	Brushed
<a href="#">214054020</a>	Black





# TOP PERFORMANCE FOR YOUR UTV.



## 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 (readily available online) 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
<b>616010086</b>	2011-2014 Yanmar Polaris Ranger Diesels.

*Tilt-Bed function becomes disabled on 2012-2014*







# UNIVERSAL APPLICATIONS PERFORMANCE + UPGRADES



## EXPLORE THIS SECTION

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- 182 - 185 CLAMPS AND FLANGES
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- 188 - 189 LIFEPO4 BATTERIES



Quickly find what you're looking for.



**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)
<a href="#">578001015</a>	1" x 15 ft. roll
<a href="#">578001025</a>	1" x 25 ft. roll
<a href="#">578001050</a>	1" x 50 ft. roll
<a href="#">578002015</a>	2" x 15 ft. roll
<a href="#">578002025</a>	2" x 25 ft. roll
<a href="#">578002050</a>	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)
<a href="#">578010701</a>	3/4" x 12"
<a href="#">578010765</a>	3/4" x 65 ft.
<a href="#">578011001</a>	1" x 12"
<a href="#">578011065</a>	1" x 65 ft.
<a href="#">578011501</a>	1.5" x 12"
<a href="#">578011565</a>	1.5" x 65 ft.
<a href="#">578012001</a>	2" x 12"
<a href="#">578012065</a>	2" x 65 ft.
<a href="#">578012501</a>	2.5" x 12"
<a href="#">578012565</a>	2.5" x 65 ft.
<a href="#">578013001</a>	3" x 12"
<a href="#">578013065</a>	3" x 65 ft.
<a href="#">578013501</a>	3.5" x 12"
<a href="#">578013565</a>	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 2,000 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
<a href="#">116150040</a>	Small T4 Turbos (GT37/GT40, S300)
<a href="#">116150042</a>	Large T4 Turbos (GT42/GT45, S400)
<a href="#">116150055</a>	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 turbocharger systems, 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 NOMEMEX® 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

PART NO.	DESCRIPTION
<a href="#">516010800</a>	38MM Water-Cooled
<a href="#">516011000</a>	44MM Water-Cooled
<a href="#">516011200</a>	60MM Air-Cooled

**304 STAINLESS STEEL EXHAUST BELLOWS**

**Features:**

- Internally sleeved
- Aircraft-grade, 304 stainless steel

PART NO.	SIZE
<a href="#">516201015</a>	1.5"
<a href="#">516201020</a>	2.0"
<a href="#">516201030</a>	3.0"
<a href="#">516201035</a>	3.5"
<a href="#">516201040</a>	4.0"
<a href="#">516201041</a>	4" x 4" L
<a href="#">516201042</a>	4" x 5" L Interlocking

**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

PART NO.	SIZE
<a href="#">516210030</a>	3.0" 40 Series
<a href="#">516210035</a>	3.5" 42 Series
<a href="#">516210040</a>	4.0" 45 Series
<a href="#">516210050</a>	5.0" 55 Series



**PERFORMANCE SILICONE HOSES**

Each PPE Performance Silicone Hose is strengthened with 5 plies of NOMEMEX® 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

Contact us for custom shapes and sizes.  
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
<a href="#">515151590</a>	1.5"	515225175
<a href="#">515202090</a>	2.0"	515250200
<a href="#">515222290</a>	2.25"	515275225
<a href="#">515252590</a>	2.5"	515300250
<a href="#">515303090</a>	3.0"	515350300
<a href="#">515353590</a>	3.5"	515400350
<a href="#">515404090</a>	4.0"	515450400
<a href="#">515454590</a>	4.5"	515500450
<a href="#">515505090</a>	5.0"	515500450

**Straight Performance Silicone Hoses**

PART NO.	SIZE (ID x L)	DESCRIPTION
<a href="#">515070736</a>	0.75" x 36"	6mm 5-ply
<a href="#">515101036</a>	1.0" x 36"	6mm 5-ply
<a href="#">515151536</a>	1.5" x 36"	6mm 5-ply
<a href="#">515171736</a>	1.75" x 36"	6mm 5-ply
<a href="#">515202036</a>	2.0" x 36"	6mm 5-ply
<a href="#">515222236</a>	2.25" x 36"	6mm 5-ply
<a href="#">515252536</a>	2.5" x 36"	6mm 5-ply
<a href="#">515272736</a>	2.75" x 36"	6mm 5-ply
<a href="#">515303036</a>	3.0" x 36"	6mm 5-ply
<a href="#">515353536</a>	3.5" x 36"	6mm 5-ply
<a href="#">515404036</a>	4.0" x 36"	6mm 5-ply
<a href="#">515454536</a>	4.5" x 36"	6mm 5-ply
<a href="#">515505036</a>	5.0" x 36"	6mm 5-ply
<a href="#">515555536</a>	5.5" x 36"	6mm 5-ply
<a href="#">515606036</a>	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
<a href="#">515151545</a>	1.5"	515225175
<a href="#">515181845</a>	1.875"	515250200
<a href="#">515202045</a>	2.0"	515250200
<a href="#">515222245</a>	2.25"	515300250
<a href="#">515252545</a>	2.5"	515300250
<a href="#">515303045</a>	3.0"	515350300
<a href="#">515353545</a>	3.5"	515400350
<a href="#">515404045</a>	4.0"	515450400
<a href="#">515454545</a>	4.5"	515500450
<a href="#">515505045</a>	5.0"	515550500

**Reducers**

PART NO.	SIZE	PPE T-BOLT CLAMP (S)
<a href="#">515302203</a>	3.0" to 2.25" x 3.0" L	515325275 515350300
<a href="#">515302205</a>	3.0" to 2.25" x 5.0" L	515325275 515350300
<a href="#">515302503</a>	3.0" to 2.5" x 3.0" L	515325275 515350300
<a href="#">515302505</a>	3.0" to 2.5" x 5.0" L	515325275 515350300
<a href="#">515353003</a>	3.5" to 3.0" x 3.0" L	515325275 515350300
<a href="#">515353005</a>	3.5" to 3.0" x 5.0" L	515400350 515350300
<a href="#">515403003</a>	4.0" to 3.0" x 3.0" L	515450400 515350300
<a href="#">515403005</a>	4.0" to 3.0" x 5.0" L	515450400
<a href="#">515403503</a>	4.0" to 3.5" x 3.0" L	515450400
<a href="#">515403505</a>	4.0" to 3.5" x 5.0" L	515450400
<a href="#">515504003</a>	5.0" to 4.0" x 3.0" L	515600550 515500450
<a href="#">515504005</a>	5.0" to 4.0" x 5.0" L	515600550 515500450
<a href="#">515554003</a>	5.5" to 4.0" x 3.0" L	515650600 515500450
<a href="#">515554503</a>	5.5" to 4.5" x 3.0" L	515600550 515650600
<a href="#">515554005</a>	5.5" to 4.0" x 5.0" L	515500450 515600550
<a href="#">515554505</a>	5.5" to 4.5" x 5.0" L	515500450 515650600
<a href="#">515555003</a>	5.5" to 5.0" x 3.0" L	515600550 515650600
<a href="#">515555005</a>	5.5" to 5.0" x 5.0" L	515600550 515650600
<a href="#">515604003</a>	6.0" to 4.0" x 3.0" L	515500450 515650600
<a href="#">515604005</a>	6.0" to 4.0" x 5.0" L	515500450 515650600
<a href="#">515605003</a>	6.0" to 5.0" x 3.0" L	515600550 515650600
<a href="#">515605503</a>	6.0" to 5.5" x 3.0" L	515600550 515650600
<a href="#">515605005</a>	6.0" to 5.0" x 5.0" L	515600550 515650600
<a href="#">515605505</a>	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
<a href="#">515010000</a>	3/8" 100 meter bulk	2.5mm 1-ply
<a href="#">515010100</a>	3/8" 1-foot increments	2.5mm 1-ply
<a href="#">515020000</a>	1/2" 100 meter bulk	2.5mm 1-ply
<a href="#">515020100</a>	1/2" 1-foot increments	2.5mm 1-ply
<a href="#">515030000</a>	5/8" 100 meter bulk	3mm 1-ply
<a href="#">515030100</a>	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
<a href="#">514585000</a>	5/8" 50 feet bulk	30R10 Fuel/Oil Hose
<a href="#">514580100</a>	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 continuous uncut for the total foot length ordered.

**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. 3.5" ID.

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
<a href="#">115901400</a>	25147210	GM Gas V8 LT1 Series Throttle Body (1992-1997)

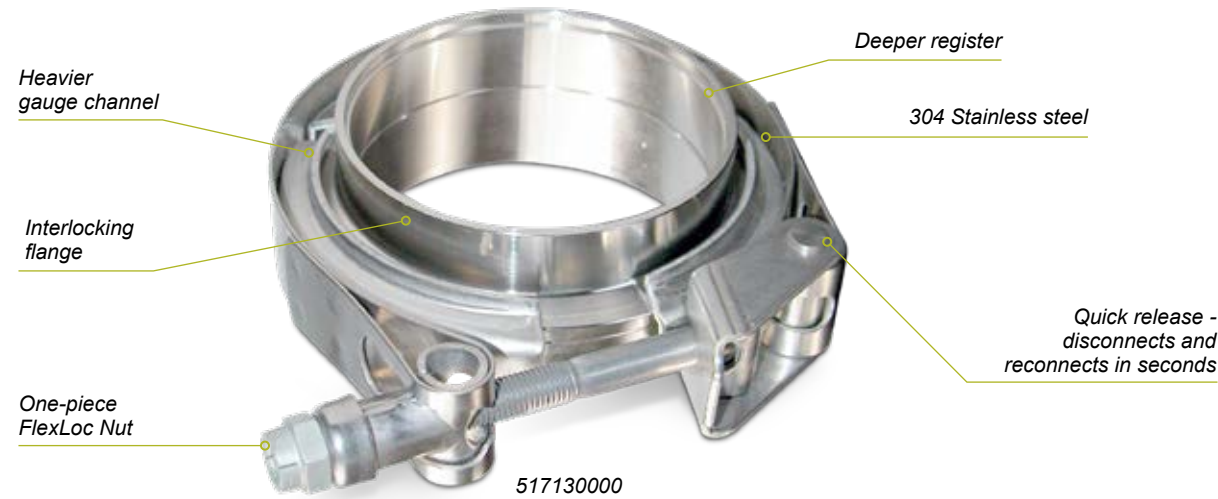




**QUICK-RELEASE 304 STAINLESS STEEL V-BAND CLAMPS AND 304 STAINLESS STEEL FLANGES**

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.



PART NO.	SIZE	DESCRIPTION
<a href="#">517115000</a>	1.5"	QR V-band Clamp
<a href="#">517115001</a>	1.5"	V-band Flange Engine Side (M)
<a href="#">517115002</a>	1.5"	V-band Flange Exhaust Side (F)
<a href="#">517115003</a>	1.5"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517115008</a>	1.5"	QR V-band - 8 pc. set (2C 3M 3F)
<a href="#">517117500</a>	1.75"	QR V-band Clamp
<a href="#">517117501</a>	1.75"	V-band Flange Engine Side (M)
<a href="#">517117502</a>	1.75"	V-band Flange Exhaust Side (F)
<a href="#">517117503</a>	1.75"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517117508</a>	1.75"	QR V-band - 8 pc. set (2C 3M 3F)
<a href="#">517120000</a>	2.0"	QR V-band Clamp
<a href="#">517120001</a>	2.0"	V-band Flange Engine Side (M)
<a href="#">517120002</a>	2.0"	V-band Flange Exhaust Side (F)
<a href="#">517120003</a>	2.0"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517120008</a>	2.0"	QR V-band - 8 pc. set (2C 3M 3F)
<a href="#">517122500</a>	2.25"	QR V-band Clamp
<a href="#">517122501</a>	2.25"	V-band Flange Engine Side (M)
<a href="#">517122502</a>	2.25"	V-band Flange Exhaust Side (F)
<a href="#">517122503</a>	2.25"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517122508</a>	2.25"	QR V-band - 8 pc. set (2C 3M 3F)
<a href="#">517125000</a>	2.5"	QR V-band Clamp
<a href="#">517125001</a>	2.5"	V-band Flange Engine Side (M)
<a href="#">517125002</a>	2.5"	V-band Flange Exhaust Side (F)
<a href="#">517125003</a>	2.5"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517125008</a>	2.5"	QR V-band - 8 pc. set (2C 3M 3F)
<a href="#">517127500</a>	2.75"	QR V-band Clamp
<a href="#">517127501</a>	2.75"	V-band Flange Engine Side (M)
<a href="#">517127502</a>	2.75"	V-band Flange Exhaust Side (F)
<a href="#">517127503</a>	2.75"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517127508</a>	2.75"	QR V-band - 8 pc. set (2C 3M 3F)

PART NO.	SIZE	DESCRIPTION
<a href="#">517130000</a>	3.0"	QR V-band Clamp
<a href="#">517130001</a>	3.0"	V-band Flange Engine Side (M)
<a href="#">517130002</a>	3.0"	V-band Flange Exhaust Side (F)
<a href="#">517130003</a>	3.0"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517130008</a>	3.0"	QR V-band - 8 pc. set (2C 3M 3F)
<a href="#">517132500</a>	3.25"	QR V-band Clamp
<a href="#">517132501</a>	3.25"	V-band Flange Engine Side (M)
<a href="#">517132502</a>	3.25"	V-band Flange Exhaust Side (F)
<a href="#">517132503</a>	3.25"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517132508</a>	3.25"	QR V-band - 8 pc. set (2C 3M 3F)
<a href="#">517135000</a>	3.5"	QR V-band Clamp
<a href="#">517135001</a>	3.5"	V-band Flange Engine Side (M)
<a href="#">517135002</a>	3.5"	V-band Flange Exhaust Side (F)
<a href="#">517135003</a>	3.5"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517135008</a>	3.5"	QR V-band - 8 pc. set (2C 3M 3F)
<a href="#">517140000</a>	4.0"	QR V-band Clamp
<a href="#">517140001</a>	4.0"	V-band Flange Engine Side (M)
<a href="#">517140002</a>	4.0"	V-band Flange Exhaust Side (F)
<a href="#">517140003</a>	4.0"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517140008</a>	4.0"	QR V-band - 8 pc. set (2C 3M 3F)
<a href="#">517150000</a>	5.0"	QR V-band Clamp
<a href="#">517150001</a>	5.0"	V-band Flange Engine Side (M)
<a href="#">517150003</a>	5.0"	QR V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517150008</a>	5.0"	QR V-band - 8 pc. set (2C 3M 3F)

**WORM DRIVE CLAMP WITH W-STYLE INNER LINER**

These specially-designed two-piece clamps provide 360 degrees of constant tension with interlocking surfaces that prevent leakage. The high-quality stainless steel construction makes them resistant to moisture and chemicals so they look and perform great. These specialty clamps provide superior tension throughout the thermal cycle, they withstand engine vibration and excel in the challenging under hood environment.

**Features:**

- Two-piece stainless steel construction
- Constant, even pressure evenly distributed around the hose
- Beveled edge of inner liner protects hose surfaces from abrasion



**Worm Drive Clamp with W-Style Inner Liner**

PART NO.	ID	RANGE
<a href="#">515005100</a>	1.0"	18-32mm
<a href="#">515005150</a>	1.5"	27-51mm
<a href="#">515005175</a>	1.75"	33-57mm
<a href="#">515005200</a>	2.0"	40-64mm
<a href="#">515005250</a>	2.5"	52-76mm
<a href="#">515005300</a>	3.0"	65-89mm
<a href="#">515005350</a>	3.5"	90-114mm
<a href="#">515005400</a>	4.0"	103-127mm
<a href="#">515005450</a>	4.5"	103-127mm
<a href="#">515005500</a>	5.0"	117-140mm
<a href="#">515005550</a>	5.5"	130-152mm
<a href="#">515005600</a>	6.0"	141-165mm





**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
<a href="#">517215001</a>	1.5"	V-band AL Engine Side (M)
<a href="#">517215002</a>	1.5"	V-band AL Exhaust Side (F)
<a href="#">517215003</a>	1.5"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517215008</a>	1.5"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517217501</a>	1.75"	V-band AL Engine Side (M)
<a href="#">517217502</a>	1.75"	V-band AL Exhaust Side (F)
<a href="#">517217503</a>	1.75"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517217508</a>	1.75"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517220001</a>	2.0"	V-band AL Engine Side (M)
<a href="#">517220002</a>	2.0"	V-band AL Exhaust Side (F)
<a href="#">517220003</a>	2.0"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517220008</a>	2.0"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517222501</a>	2.25"	V-band AL Engine Side (M)
<a href="#">517222502</a>	2.25"	V-band AL Exhaust Side (F)
<a href="#">517222503</a>	2.25"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517222508</a>	2.25"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517225001</a>	2.5"	V-band AL Engine Side (M)
<a href="#">517225002</a>	2.5"	V-band AL Exhaust Side (F)
<a href="#">517225003</a>	2.5"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517225008</a>	2.5"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517227501</a>	2.75"	V-band AL Engine Side (M)
<a href="#">517227502</a>	2.75"	V-band AL Exhaust Side (F)
<a href="#">517227503</a>	2.75"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)

PART NO.	SIZE (O.D.)	DESCRIPTION
<a href="#">517227508</a>	2.75"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517230001</a>	3.0"	V-band AL Engine Side (M)
<a href="#">517230002</a>	3.0"	V-band AL Exhaust Side (F)
<a href="#">517230003</a>	3.0"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517230008</a>	3.0"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517232501</a>	3.25"	V-band AL Engine Side (M)
<a href="#">517232502</a>	3.25"	V-band AL Exhaust Side (F)
<a href="#">517232503</a>	3.25"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517232508</a>	3.25"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517235001</a>	3.5"	V-band AL Engine Side (M)
<a href="#">517235002</a>	3.5"	V-band AL Exhaust Side (F)
<a href="#">517235003</a>	3.5"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517235008</a>	3.5"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517240001</a>	4.0"	V-band AL Engine Side (M)
<a href="#">517240002</a>	4.0"	V-band AL Exhaust Side (F)
<a href="#">517240003</a>	4.0"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517240008</a>	4.0"	QR 304 SS V-band - 8 pc. set (2C 3M 3F)
<a href="#">517250001</a>	5.0"	V-band AL Engine Side (M)
<a href="#">517250002</a>	5.0"	V-band AL Exhaust Side (F)
<a href="#">517250003</a>	5.0"	QR 304 SS V-band - 3 pc. Set (1C 1M 1F)
<a href="#">517250008</a>	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 Aluminum Flanges Kits**

PART NO.	ID	DESCRIPTION
<a href="#">517430003</a>	3.0"	3 pc. set (1C 1M 1F)
<a href="#">517430008</a>	3.0"	8 pc. set (2C 3M 3F)
<a href="#">517435003</a>	3.5"	3 pc. set (1C 1M 1F)
<a href="#">517435008</a>	3.5"	8 pc. set (2C 3M 3F)
<a href="#">517440003</a>	4.0"	3 pc. set (1C 1M 1F)
<a href="#">517440008</a>	4.0"	8 pc. set (2C 3M 3F)

**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
<a href="#">517325000</a>	2.5"	Clamp
<a href="#">517325003</a>	2.5"	3 pc. set (1C 1M 1F)
<a href="#">517325008</a>	2.5"	8 pc. set (2C 3M 3F)
<a href="#">517330000</a>	3.0"	Clamp
<a href="#">517330003</a>	3.0"	3 pc. set (1C 1M 1F)
<a href="#">517330008</a>	3.0"	8 pc. set (2C 3M 3F)
<a href="#">517335000</a>	3.5"	Clamp
<a href="#">517335003</a>	3.5"	3 pc. set (1C 1M 1F)
<a href="#">517335008</a>	3.5"	8 pc. set (2C 3M 3F)
<a href="#">517340000</a>	4.0"	Clamp
<a href="#">517340003</a>	4.0"	3 pc. set (1C 1M 1F)
<a href="#">517340008</a>	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.

PART NO.	ID	RANGE
<a href="#">515150100</a>	1.5"	37 - 42 mm
<a href="#">515175125</a>	1.75"	43 - 49 mm
<a href="#">515200150</a>	2"	47 - 55 mm
<a href="#">515225175</a>	2.25"	54 - 62 mm
<a href="#">515250200</a>	2.5"	60 - 68 mm
<a href="#">515262212</a>	2.625"	63 - 71 mm
<a href="#">515275225</a>	2.75"	67 - 75 mm
<a href="#">515287237</a>	2.875"	70 - 78 mm
<a href="#">515300250</a>	3"	73 - 81 mm
<a href="#">515325275</a>	3.25"	79 - 87 mm
<a href="#">515350300</a>	3.5"	84 - 92 mm
<a href="#">515375325</a>	3.75"	92 - 100 mm
<a href="#">515400350</a>	4"	98 - 106 mm
<a href="#">515425375</a>	4.25"	105 - 113 mm
<a href="#">515450400</a>	4.5"	108 - 116 mm
<a href="#">515475425</a>	4.75"	114 - 122 mm
<a href="#">515500450</a>	5"	121 - 129 mm
<a href="#">515525475</a>	5.25"	127 - 135 mm
<a href="#">515550500</a>	5.5"	133 - 141 mm
<a href="#">515575525</a>	5.75"	140 - 148 mm
<a href="#">515600550</a>	6"	146 - 154 mm
<a href="#">515625575</a>	6.25"	152 - 160 mm
<a href="#">515650600</a>	6.5"	159 - 167 mm



**4 SPOTWELDS ON EACH SIDE FOR ADDED STRENGTH**







.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
<a href="#">575150045</a>	45°	1.5"	2.375"
<a href="#">575150090</a>	90°	1.5"	2.375"
<a href="#">575150180</a>	180°	1.5"	2.375"
<a href="#">575200045</a>	45°	2.0"	3.0"
<a href="#">575200090</a>	90°	2.0"	3.0"
<a href="#">575200180</a>	180°	2.0"	3.0"
<a href="#">575225045</a>	45°	2.25"	3.5"
<a href="#">575225090</a>	90°	2.25"	3.5"
<a href="#">575225180</a>	180°	2.25"	3.5"
<a href="#">575250045</a>	45°	2.5"	4.0"
<a href="#">575250090</a>	90°	2.5"	4.0"
<a href="#">575250180</a>	180°	2.5"	4.0"
<a href="#">575275045</a>	45°	2.75"	4.5"
<a href="#">575275090</a>	90°	2.75"	4.5"
<a href="#">575275180</a>	180°	2.75"	4.5"
<a href="#">575300045</a>	45°	3.0"	5.0"
<a href="#">575300090</a>	90°	3.0"	5.0"
<a href="#">575300180</a>	180°	3.0"	5.0"
<a href="#">575350045</a>	45°	3.5"	5.25"
<a href="#">575350090</a>	90°	3.5"	5.25"
<a href="#">575350180</a>	180°	3.5"	5.25"
<a href="#">575400045</a>	45°	4.0"	6.0"
<a href="#">575400090</a>	90°	4.0"	6.0"
<a href="#">575400180</a>	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
<a href="#">576200045</a>	45°	2.0"	3.0"
<a href="#">576200090</a>	90°	2.0"	3.0"
<a href="#">576200180</a>	180°	2.0"	3.0"
<a href="#">576225045</a>	45°	2.25"	3.5"
<a href="#">576225090</a>	90°	2.25"	3.5"
<a href="#">576225180</a>	180°	2.25"	3.5"
<a href="#">576250045</a>	45°	2.5"	4.0"
<a href="#">576250090</a>	90°	2.5"	4.0"
<a href="#">576250180</a>	180°	2.5"	4.0"
<a href="#">576275045</a>	45°	2.75"	4.5"
<a href="#">576275090</a>	90°	2.75"	4.5"
<a href="#">576275180</a>	180°	2.75"	4.5"
<a href="#">576300045</a>	45°	3.0"	5.0"
<a href="#">576300090</a>	90°	3.0"	5.0"
<a href="#">576300180</a>	180°	3.0"	5.0"
<a href="#">576350045</a>	45°	3.5"	5.25"
<a href="#">576350090</a>	90°	3.5"	5.25"
<a href="#">576350180</a>	180°	3.5"	5.25"
<a href="#">576400045</a>	45°	4.0"	6.0"
<a href="#">576400090</a>	90°	4.0"	6.0"
<a href="#">576400180</a>	180°	4.0"	6.0"
<a href="#">576500045</a>	45°	5.0"	5.0"
<a href="#">576500090</a>	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)
<a href="#">515900200</a>	2" x 5"
<a href="#">515900225</a>	2.25" x 5"
<a href="#">515900250</a>	2.5" x 5"
<a href="#">515900275</a>	2.75" x 5"
<a href="#">515900300</a>	3" x 5"
<a href="#">515900400</a>	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)
<a href="#">515895300</a>	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 deep-cycle applications including backup power, marine, solar, and recreational vehicles.

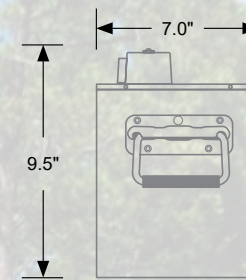
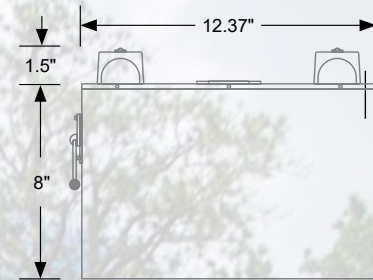
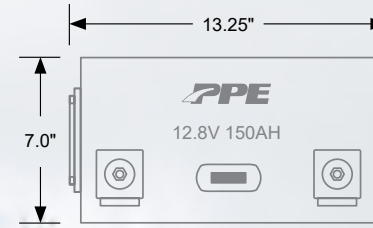
The LiFePO4 battery provides excellent thermal stability, safety characteristics, electrochemical performance and has a non-toxicity rating compared to other traditional deep-cycle battery options including lead-acid, absorbed glass mat (AGM) or lithium-ion (Li-ion). The PPE LiFePO4 battery offers a longer lasting deep-cycle than even lithium-ion options and has a constant discharge voltage which stays close to 12.8V during discharge. This allows the battery to deliver virtually full power until it is discharged, and it can even eliminate the need for voltage regulation circuitry.



572128020



572128015



572128015



## 12.8 VOLT LiFePO4 BATTERIES

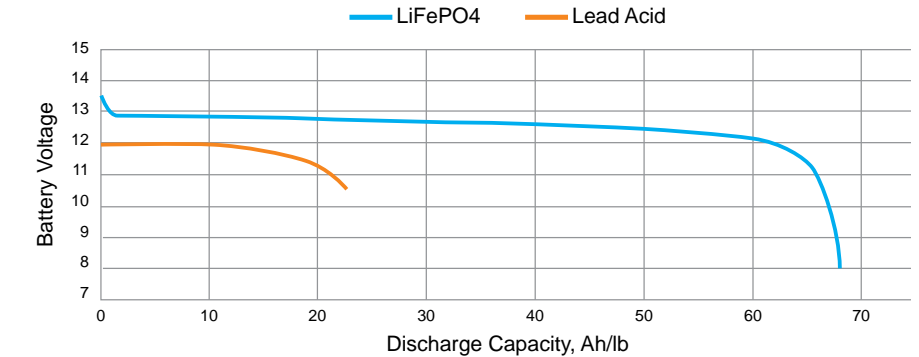
Housed in a brushed 304 stainless steel casing and equipped with heavy-duty terminals and an onboard backlit gauge that displays voltage and charging percentage. The proprietary onboard battery monitoring system (BMS) protects the battery from overcharging, and from discharging below 10% capacity. The 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

Discharge Voltage Characteristics of PPE LiFePO4 Battery vs Lead Acid Battery



To be used to back-up power, marine, solar and recreational vehicles.

PART NO.	VOLTAGE	CAPACITY	WEIGHT	DIMENSIONS (W x H x D)
<a href="#">572128015</a>	12.8V	150AH	45 lbs.	13.25" x 9.5" x 7"
<a href="#">572128020</a>	12.8V	200AH	59 lbs.	19.25" x 9.5" x 7"
<a href="#">572128040</a>	12.8V	400AH	92 lbs.	13.75"x14.5"x10"

Not for use as a starter battery.





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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.

- Drive! Magazine

