

SALES BULLETIN

Part #:	Various	Engine:	Various
Date:	05/01/2020	Part:	Head Studs

Head Studs Upgrade



- Head Stud Upgrade—This is a durability upgrade and it increases the clamping force of the head to the block by 15% to 20%. We highly recommend the head stud upgrade on all diesel engines if available.
- Now diesel engines make over two to four times as much power as they did 20 yrs. ago, but the OE never upgraded the head bolt to a stud. The head to block fastener is under more stress than any other fastener in the entire truck so a stud is a vast improvement. The stud also puts considerably less stress on the threads in the block & it does not distort the cylinder bore as much as a bolt would, which can help with blowby issues. This upgrade is highly recommended if you do any heavy towing.

SALES BULLETIN

Part #:	Various	Engine:	Various
Date:	05/01/2020	Part:	ARP High Performance Rod Bolts Upgrade

Rod Bolts Upgrade



- A premium grade chrome-moly steel is used to manufacture ARP High Performance connecting rod bolts. This is heat-treated to provide a tensile strength in the 200,000 psi range, which is substantially stronger than the OEM bolts. Cycle testing shows High Performance rod bolts to be nearly five times more reliable than stock bolts.
- The ARP Rod Bolt Upgrade is less likely to break or stretch in heavy duty applications. A good durability upgrade in all applications for peace of mind!

SALES BULLETIN

Part #:	Various	Engine:	Various
Date:	05/05/2020	Part:	Forged Steel Connecting Rod Upgrade

Forged Steel Rods



Forged Steel



Powdered Metal

- Forged steel rods are stronger and more durable than powdered metal rods.
- Manufacturers have moved toward using powdered metal rods due decrease in cost of manufacturing versus forged steel rods.
- This upgrade adds durability to your diesel engine. Highly recommended for towing, 4WD applications, high turbo boost levels, or just peace of mind in today's demanding diesel engine applications.

SALES BULLETIN

Part #:	Various	Engine:	Various
Date:	05/05/2020	Part:	Valve Spring Upgrade

Valve Spring Upgrade



- A 25% to 50% increase in closed valve spring pressure will greatly reduce valve bounce, which is a situation where the valve doesn't close against the valve seat securely and compression is lost. This means lost cylinder pressure, lost HP and the potential for valvetrain damage.
- These springs are given an extra nitriding surface hardening process that is above and beyond the OE manufacturing process.
- A must with a camshaft upgrade, high boost levels, or heavy duty applications.

SALES BULLETIN

Part #:	Various	Engine:	Various
Date:	05/05/2020	Part:	Upgrade

Valve Upgrade



- The stainless steel used in the valve upgrade is a higher quality steel than supplied from the OE.
- These valves help prevent burnt and cracked valves.
- This upgrade adds durability to your diesel engine. Highly recommended for towing, 4WD applications, high turbo boost levels, high exhaust gas temperature applications, or just peace of mind in today's demanding diesel engine applications.

SALES BULLETIN

Part #:	MPL-201	Engine:	All Engines
Date:	11/06/2017	Part:	Priming System

Melling Oil Primer MPL-201

WARNING!

Failure to properly prime oil system will damage engine and void your warranty. Do not use starter to prime oil system. Use an engine oil priming tank such as **MPL-201**.



To order this tool contact your sales associate.

SALES BULLETIN

Part #:	ZDDP0616	Engine:	All Engines
Date:	06/16/2016	Part:	Zinc/Phosphorus Oil Additive

ZDDP ZINC AND PHOSPHORUS OIL ADDITIVE

ZDDP (Zinc Dialkyldithiophosphates) is an additive found in motor oils that serve as an anti-wear agent where any metal to metal contact is made in an engine. Flat tappet camshafts, timing gears, piston skirts, piston rings, bearings, rocker arms, etc. are some of the high wear metal to metal contact points that benefit from the ZDDP protection.

In recent years, the EPA has mandated the critical anti-wear additive ZDDP be reduced in motor oils, much like removing lead from gasoline. Back in the 1980s, motor oil typically contained around 1500 PPM (parts per million) of ZDDP. In the 1990s, that was reduced to 1200 PPM, then down to around 800 PPM in 2005.

The demand for longer drain intervals has also caused the amount of detergent to increase, which interferes with the anti-wear protection provided by ZDDP and compounds the problem.

The target range of ZDDP should be 1800 PPM to 2000 PPM for maximum protection.

Adding a 4oz bottle of ZDDPlus® Oil additive to every 5 quarts of your typical diesel motor oil will increase the ZDDP levels by 1256 PPM (Phosphorus) and 1751 PPM (Zinc). 1 to 2 bottles per oil change will put the levels back where they should be.

1 - 4oz bottle of ZDDPlus® oil additive has the same concentration of ZDDP as two quarts of the Lucas® additive.

Product	Amount Used	Phosphorus (ppm)	Zinc (ppm)
ZDDPlus®	4	51,500	71,800
Lucas®	16	5,000	43,000
Typical Diesel Motor Oil	160	600	800

Target ppm Zinc & Phosphorus Concentration	Ounces of ZDDPlus®	Ounces of Lucas®
1000	1.3	11.4
1100	1.7	14.3
1200	2.0	17.2
1300	2.3	20.0
1400	2.7	22.9
1500	3.0	25.7
1600	3.3	28.6
1700	3.7	31.5
1800	4.0	34.3
1900	4.3	37.2
2000	4.7	40.0

___ 1 bottle Lucas®

___ 2 bottles Lucas®

___ 1 bottle ZDDPlus®