XOTIC PERFORMANCE



-KIT INCLUDES

36 X HEAD STUDS

36 X NUTS



■ 36 X HARDENED PARALLEL
WASHERS 8 X ROCKER BOLTS







SOCKETS



INSTRUCTION MANUAL

6.6L CHEVROLET DURAMAX HEAD STUD KIT

PART NUMBER CP877, 2001-2016, LB7 LLY LBZ LMM LML.

In every diesel car, there are high cylinder pressures that can damage head aaskets, Factory OEM head bolts are torque to yield, meaning you torque the bolt to a specific torque with a final 90 degree rotation that will place the bolt at its' maximum stretch point.

Our observation through years of inspecting and repairing diesel trucks is that when you add parts that increase horsepower (turbocharger, injectors, chips etc.), you risk creating higher cylinder pressures lower than your RPM range, consequently leading to a blown head gasket.

In contrast to head bolts, head studs are engineered to not stretch. Xotic Performance head studs are created using premium steel alloys (XOTIC 7200) that are superior in tensile strength in comparison to a bolt. We take real pride in manufacturing fasteners that will last you a lifetime.

To ensure optimal head stud installation, accurate preload requirements must be met. Preload is the tension created in a fastener when it is tightened. This tensile force in the bolt creates a compressive force in the bolted joint known as clamp force.

Head aasket failures occur when clamping forces that hold the gasket, head and engine block are not

tolerable from high cylinder pressures. By choosing head studs over head holts, these failures can he avoided

To ensure accurate preload, it is necessary to clean and lubricate every component in the joint. While torqueing each head stud, the same torque must be applied on every head stud - or else you risk unequal distribution of preload and possibly ioint failure.

A COMMON MISTAKE TO AVOID

When torqueing a fastener, do not stop short of the recommended torque until the desired torque is reached (i.e. keep torqueing without stopping until the desired torque is achieved). If by accident, you stop short of the recommended torque. loosen the fastener and retorque.

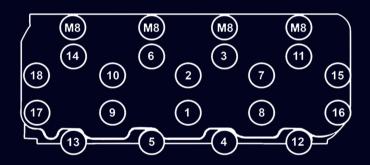
VERIFY FIRST

Before installing any components, please verify whether this part number (CP875) is compatible with the vehicle applications cited above. Inspect all package components, and clean as necessary to ensure accurate installation. Any obvious defects or shipping damages should be reported to us.

GET TO ACTION!

- Clean the threads in the block prior to installing the studs to ensure accurate fitment and precise torque readings.
- 2 Use a thread sealer to lubricate block threads of the head studs (only applies if the cylinder head studs extend into the water jacket).
- **3** Screw studs as tight as can be made by hand (no tool necessary), and install the cylindar head.
- 4 Using the fastener assembly lubricant included in the package, lubricate the threads of the head studs and the bottom surface of the nuts. Install the lubricated washers (both sides must be lubricated) over the head studs.
- 5 Thread the nuts onto the head studs as tight as can be made by hand until they are in contact with the washers.
- 6 Using the torque sequence below, tighten the nuts in three equal steps:

M12= 125 ft-lb M8= 25 ft-lb





NEED HELP?

For technical support, please email: info@xotic-performance.com



WORKING ON AN EXCITING NEW PROJECT?

how off your craft on instagram and tag us n your picture for a chance to be featured!

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