



SPELAB

HEAD STUD KIT

2001-2016 CHEVY 6.6L DURAMAX DIESEL

 Spelab Racing

 YouTube-SPELAB

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PACKING INCLUDE

36 × HEAD STUDS

36 × NUTS

36 × HARDENED PARALLEL WASHERS

8 × ROCKER BOLTS

1 × FASTENER ASSEMBLY LUBRICANT

1 × INSTRUCTIONS MANUAL



Installation Notes

Every diesel vehicle has high cylinder pressures, which can damage the head gasket. The factory OEM cylinder head bolts are torqued to yield, which means you torque the bolts to a specific torque and end up turning 90 degrees, which puts the bolt at its maximum stretch point.

We have observed through years of inspecting and repairing diesel trucks that when you add components that increase horsepower (turbochargers, injectors, chips, etc.), you can create cylinder pressures above your RPM range, which can cause the head gasket to burn out. Compared to cylinder head bolts, cylinder head bolts are designed not to stretch. We take pride in making fasteners that will last you a lifetime.

To ensure an optimal cylinder head bolt installation, accurate preload requirements must be met. Preload is the tension created when a fastener is tightened. This stretching force in the fastener creates a compressive force, known as the clamping force, at the bolted joint.

When the clamping force cannot withstand the high cylinder pressure, a cylinder head gasket failure occurs. By choosing cylinder head bolts instead of cylinder head bolts, these failures can be avoided.

To ensure accurate preload, every component in the joint must be cleaned and lubricated. It is important to apply the same torque to each cylinder head bolt as you tighten it-otherwise you risk uneven preload distribution and possibly joint failure.

A Common Mistakes to Avoid

When tightening fasteners, do not stop tightening before the recommended torque is reached (e.g., continue tightening until the desired torque is reached). If the recommended torque is unexpectedly not reached, loosen the fastener and retighten.

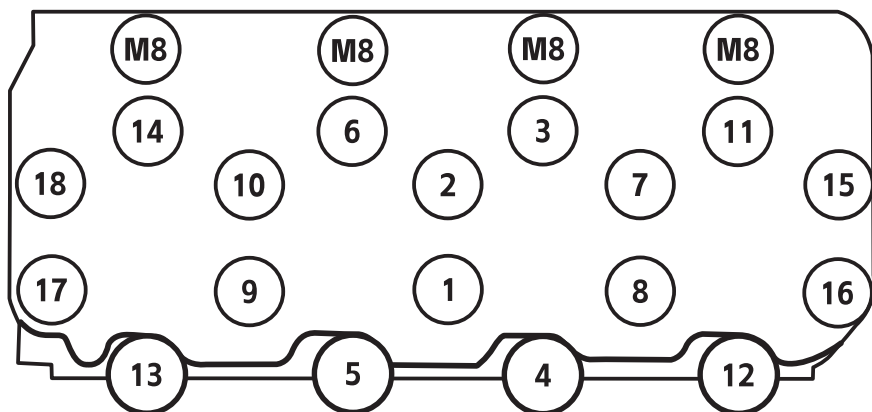
Verify First

Before installing any component, verify that this part is compatible with the vehicle application listed above. Inspect all packaged components and clean as necessary to ensure accurate installation. Any obvious defects or shipping damage should be reported to us.

Installation Steps

- Step 1:** Clean threads in the block prior to installing the studs to ensure accurate fitment and precise torque readings.
- Step 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).
- Step 3:** Screw studs as tight as can be made by hand (no tool necessary), and install the cylinder head.
- Step 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.
- Step 5:** Thread the nuts onto the head studs as tight as can be made by hand until they are in contact with the washers.
- Step 6:** Using the torque sequence below, tighten the nuts in three equal steps:

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





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