



PART NO. XD3017HS

## XDP X220 SERIES HEAD STUD KIT

### INSTALLATION MANUAL



CODE	DESCRIPTION	QTY
A	Head Stud	36
B	12mm Washer	36
C	12mm Nut	36
D	M8 Bolt	12

**STOP**

**BEFORE REMOVING ANY PARTS FROM YOUR TRUCK, PLEASE COMPARE THE ITEMS YOU HAVE RECEIVED WITH THE PACKING LIST PROVIDED TO VERIFY THAT YOU HAVE EVERYTHING NECESSARY TO INSTALL YOUR NEW XDP X220 SERIES HEAD STUD KIT.**



**BEFORE YOU BEGIN!** Ensure that the vehicle has not been in use and that the engine is cool to the touch. Always wear eye protection when working on any vehicle.

- 1 Verify the part number on the box, and the instructions match the part number for your vehicle application.
- 2 Thoroughly inspect all hardware and ensure proper length and fitment.
- 3 Using a thread chaser (Such as XD40124TC & XD40128TC) chase all threads prior to installing your new head studs to ensure you get proper thread engagement and accurate torque readings.
- 4 Ensure that a thread sealer is used on any studs that protrude into a water jacket.
- 5 Using a 5mm allen key, install the studs into the block **HAND TIGHT!**
- 6 Proceed to install the cylinder heads and be sure to check for any binding or misalignment.
- 7 Lubricate the threads of the studs, nuts, and washers with assembly lubricant such as XD541 X-TRA Slick Engine & Fastener Assembly lubricant (Sold separately).
- 8 Install the washers and nuts onto the studs tightening the nuts hand tight.

- 9** Following the torque sequence below in three steps, tighten the nuts for studs 1-18 to 40ft lbs, 80ft lbs, and then 125ft lbs, and the M8 bolts 19-24 to 25ft lbs

**Tech Tip:** We recommend going over in sequence and double checking torque at 125ft lbs on the 1-18 studs, and proper torque on the M8 bolts.

### TORQUE SEQUENCE

**1ST PASS** → **2ND PASS** → **3RD PASS** → **FINAL PASS**  
**40FT LBS** → **80FT LBS** → **125FT LBS** → **125FT LBS**

