

## **INSTALLATION METHOD FOR HEAD STUD KITS**

**Part Number: 203-4203 Application: Toyota 1.6L (4AGE) DOHC 4-cyl**

1. **Always verify the part number for your application with the part number on the side of box and the part number on the instruction sheet. This will help ensure you have the correct installation procedure for your specific application before installing any components.**
2. Clean and inspect all hardware prior to installation. Look for obvious defects or shipping damages, plus proper fit, length and dimension.
3. To ensure proper thread engagement and accurate torque readings, clean ALL threads in the block. Chase if necessary with ARP Thread Chaser, part number 912-0002 (M10 X 1.25).
4. If the cylinder head studs protrude into a water jacket, lubricate the block threads of the studs with ARP THREAD SEALER.
5. Screw the studs into the block "HAND TIGHT ONLY". Please refer to the head stud mounting location chart and the bolt torque sequence diagram listed below.  
**NOTE: LOCTITE MAY BE USED IF A PERMANENT MOUNTING OF THE STUDS IS PREFERRED.**
6. Install the cylinder head(s) and check for binding or misalignment.
7. Lubricate the stud threads, the bottom of the nut face and both sides of the washers with ARP ULTRA-TORQUE FASTENER ASSEMBLY LUBRICANT. Then install the washers and the nuts onto the studs and tighten them hand tight. **ARP recommends using the ARP ULTRA-TORQUE FASTENER ASSEMBLY LUBRICANT that is provided with each kit as opposed to motor oil. This is due to higher friction on the studs as well as inconsistencies in the clamping force of the fasteners when motor oil or other low quality lubricants are used.**

### **PRELOAD (TORQUE) RECOMMENDATIONS**

8. Following the manufacturers recommended torque sequence tighten the nuts in three equal steps to 60 ft lbs with ARP ULTRA-TORQUE FASTENER ASSEMBLY LUBRICANT.

**Note:** ARP Ultra-Torque Fastener Assembly Lubricant has been specifically designed to reduce tension preload scatter and eliminate the need to cycle high performance engine fasteners before final installation. ARP Ultra-Torque far surpasses all requirements offered by previous ARP lubricants in terms of fastener preload repeatability and performance lubricating properties. For more information on ARP Ultra-Torque visit our website at [www.arp-bolts.com](http://www.arp-bolts.com) or call 1 800-826-3045.

### **Head Stud mounting locations**

- #2, 4, 5, 8 & 9 (A) in torque sequence – M10 X 4.250 in. long**  
**#1, 3, 6 & 7 (B) in torque sequence – M10 X 5.000 in. long**  
**#10 (C) in torque sequence – M10 X 4.800 in. long**

