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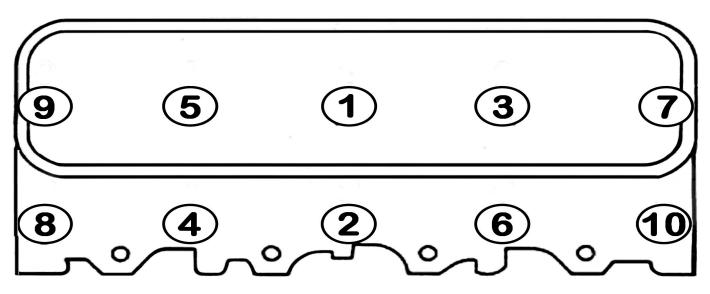
INSTALLATION METHOD FOR HEAD STUD KITS Part Number: <u>157-4301</u> Application: <u>Land Rover 3.9L-4.6L V8, 10 bolt heads</u>

- 1. Inspect all hardware prior to installation. Look for obvious defects or shipping damages. Please call 800-826-3045 with any questions or issues.
- 2. To ensure proper thread engagement and accurate torque readings, clean all threads in the block. Chase if necessary with ARP Thread Chaser, part number <u>911-0004 (7/16-14)</u>.
- 3. Clean the spot faces on the cylinder head where the washer seats, use of solvent or brake/carb cleaner is recommended.
- 4. Install the head gasket and cylinder head.
- 5. Screw the studs into the block hand tight, do not apply torque. The hex broach in the end of the stud is designed to assist with installing/removing the studs from the block, not for applying torque.
- 6. Then, using a clean, dry rag remove all oil from both sides of each washer. The cylinder head and washer mating surfaces must be free of oil/grease/lubricant. Failure to keep these surfaces dry may result in inconsistent preloads.
- 7. Place the washers over the studs and on to the dry, clean spot faces of the cylinder head.
- 8. Lubricate the stud threads and bottom of the nuts with ARP Ultra-Torque Fastener Assembly Lubricant. Then install the nuts onto the studs and tighten hand tight.

TORQUE PROCEDURE

- 9. Following the manufacturers recommended torque sequence, shown below, torque the nuts per steps 1-4
 - 1- Tighten nuts 1 through 10 to 25 ft-lbs
 - 2- Tighten nuts 1 through 10 to 50 ft-lbs
 - 3- Tighten nuts 1 through 10 to 70 ft-lbs

Bolt Torque Sequence



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