

## **Sparks Racing Heavy Duty Head Stud Kit, Polaris RZR 900 XP/ 1000 XP**

Congratulations on your purchase of the Sparks Racing Heavy Duty Head Stud Kit. This kit was designed to out-perform the stock head bolts in the harshest conditions. These studs will give a more positive torque and give far better head gasket retention properties.

**IMPORTANT:** These instructions are for guidance and illustration purposes only and will only cover the installation process directly related to the installation of this kit. It is critical these instructions are read and understood completely. This kit is intended to be installed by a well-qualified engine builder.

### **Bill of Materials**

**(6) Head Studs**

**(6) Washers**

**(6) Nuts**

**NOTE:** These studs are long enough to accommodate most 900 XP spacer plate and tall cylinder engines.

### **Installation Instructions:**

Because of variation in hole diameter, we recommend installing the studs after the cylinder and head are installed. It is important to take note of which end is the top and which is the bottom of the stud. The top of the stud has a hex in it which allows the use of an Allen wrench for installation into the engine cases.

1. Using ARP or comparable torque lube, lubricate the threads on the top of the stud only (the end with the hex key hole). A very small amount of oil or thread lube should be put on the threads of the stud which will go into the cases.
2. With the cylinder and head installed on the engine, insert a stud in each of the six head bolt holes in the cylinder head \*\*\*Do not thread the studs in at this time\*\*\*
3. Using ARP or comparable torque lube, lubricate both sides of all six washers.
4. Install a washer onto each of the six studs with the bevel side facing up
5. Using ARP or comparable torque lube, lubricate the base of all six nuts
6. By hand, start a nut on each of the six studs
7. Using an Allen wrench, thread each of the six studs into the engine cases until it bottoms out.  
\*\*\*\*DO NOT OVER TIGHTEN THE STUDS IN THE CASE- SEVERE ENGINE CASE DAMAGE CAN RESULT\*\*\*
8. Torque the stud nuts to 20 ft-lbs, 40ft-lbs, and finally 60 ft-lbs using the OEM recommended crisscross pattern