



Installation Instructions for KPMI Part No: **82-83550**

Various Polaris® 900's & 1000's

RZR/Ranger 900's • 2011-2016 / RZR 1000's • 2014-2021 / Turbo's 2016-2021
RS1's • 2018-2021 / ACE 900's • 2016-2020 / Generall 1000's (all except diesel)

Black Diamond™ Cylinder Studs

A) 82-83550 Kit Includes

Quantity	Size Info	Size Info	Description	Remarks
6-Pcs	7.000"	Overall Length	Stud	M11 x 1.25 Thread
6-Pcs	M11 x 1.25	12-Point	Nut	13mm socket
6-Pcs	0.810" OD	0.445" ID	Washer	-

B) Instructions

1. It is imperative that the threads this stud kit will be installed into, are intact, free of burrs and are properly formed. Preferably use a M11 x 1.25 Roll Tap and re-tap each internal thread. By using a Roll Tap you are reforming the thread vs cutting material away, which produces a stronger thread. In most cases you will not need to clean up the threads if all threads are properly formed, intact and a stud can screw in by hand uninterrupted. In the event threads are worn or badly deformed or missing, proper repair will be necessary beyond re-tapping, before installing this stud kit.
2. One end of each stud has a dopoint (reduced tip). Apply motor oil to the thread on this end of the stud and thread the lubricated end by hand into the case. Screw the stud all the way in by hand and leave loose. Repeat this procedure for each stud.
3. Once all studs are installed into the case and the cylinder head is in place as per the OEM instructions, Install the washers and apply motor oil to the exposed stud threads. Thread the nuts on by hand till tight.
4. Using a crisscross torque-sequence for all steps, initially torque to 20-ft/lbs. Set the 2nd torque at 40-ft/lbs. Set the final torque at 65-ft/lbs. Note, this a wet torque recommendation. Do not exceed 65-ft/lbs. for any reason. This is a 11mm stud being threaded into aluminum and the clamping force being achieved with these Heavy Duty KPMI® Black Diamond™ Studs will be an increase of over 11,000 lbs. from stock.

Packaged By: _____

Date: _____