

# XP Turbo/S & Pro XP & Turbo R 11mm Head Stud Kit

## SKU(s): 800FP0001 (ARP2000), 800FP0017 (CA625)

#### **INCLUDED PARTS**

- (6) 11mm Nuts
- (6) 11mm Washers
- (6) 11mm Studs
- (1) Assembly Lube
- (2) 6mm Head Studs

### **REQUIRED TOOLS**

Torque Wrench (ft-lb)

Metric Socket Set

Flat Head Screwdriver

Torx Set







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**Step 1:** Pinch off all coolant lines going to the engine and valve cover. Remove the coolant reservoir cap if you haven't done that already. Once all coolant lines are pinched off remove the valve cover coolant line. **NOTE:** there may be pressure behind this hose, cap the barb off with a silicone cap.







INSTALLATION INSTRUCTIONS

Figure 28



Figure 29

Step 2: Disconnect the spark plug coil packs and loosen the coil packs with a 8mm socket. Pull the coil packs out of the valve cover.



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**Step 3:** Remove the (4) valve cover screws using a T-40 torxs. Keep the rubber gromets. Remove the valve cover and gasket.



Figure 30

Step 4: Remove the crankcase position sensor using an 8mm socket. Find TDC and slide the cam locking tool into place. Tool Number: PU-50563-1. To double check TDC you can find a (+) sign looking through the crankcase position sensor port.





Figure 31

Figure 32



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INSTALLATION INSTRUCTIONS

Step 5: Remove the cam chain tensioner using a M6 Allen. Check gasket for any tears.

Step 6: Remove the (2) retaining bolts holding the top guide in place, using a 8mm socket.



Figure 33

**Step 7:** Clean the cam sprockets and chain. With a sharpie make (2) marks on each gear and chain for installation purposes.



Figure 34



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INSTALLATION INSTRUCTIONS

Step 8: Place a 22mm wrench on the intake cam, spin the clutch to release pressure off the valves while loosening the intake cam sprocket. Remove the sprocket once hardware is removed.



Figure 35

**Step 9:** Loosen both camshaft carriers using a 8mm socket. Remove carriers and cam shafts from the engine. Zip tie the cam chain up to the bed mount so the chain doesn't come off the crank.



Figure 36



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Figure 37

**Step 10:** Remove one head bolt and replace it with a stud at a time so the cylinder head never has more than one bolt/stud loose at a time. Lather both ends of the stud with supplied ARP assembly lube. Hand tighten the stud until it bottoms out. Place assembly lube on both sides of the washer, place the washer on the stud. Finger tighten the nut onto the stud and torque to 50 ft/lbs. See torque sequence and specifications below.



Figure 38



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INSTALLATION INSTRUCTIONS

Torque Specification: Head Stud	11mm ARP 2000	11mm ARP 625
Step 1	50 ft/lb	50 ft/lb
Step 2	68 ft/lb	72 ft/lb
Step 3	85 ft/lb	95 ft/lb

Torque Specification: M6 Outer Bolts	11mm ARP 2000	11mm ARP 625
Step 1	10 ft/lb	10 ft/lb

#### NOTE: On final torque go over the pattern a total of (3) times.

Step 11: Reinstall the camshafts and camshaft carriers. Snug up the camshaft carriers. Install cam shaft timing plate back into the camshafts. Verify TDC mark on the flywheel making sure the engine is still timed. Install the intake sprocket back onto the intake camshaft. Make sure your sharpie marks align properly. Apply red Loctite to the sprocket hardware and torque camshaft sprocket to 14 ft/lb. Reinstall the outer camshaft carrier and chain guide. Torque all camshaft carrier bolts to 7 ft/lb.



Figure 39





**Step 12:** Remove the spring retainer bolt out of the spring tensioner and push the adjuster all the way in. Install the cam chain tensioner into the block and torque the mounting bolts to 7 ft/lb. Install the tensioner spring, washer and retainer bolt. Torque spring tensioner bolt to 12 ft/lb.







**Step 14:** Reinstall the valve cover gasket, place a silicone based liquid gasket around the two lobes before installing. Place the valve cover over the camshafts and torque (4) valve cover screws to 7 ft/lb.

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**Note:** This product is exempt from the emission standards and related requirements of 40 C.F.R. § 1051 as provided by 40 C.F.R. § 1051.620, and California law [e.g., vehicle code§§ 27156 and 38391]. This product is sold only for use in connection with EPA certified, purpose-built, nonroad vehicles used solely for closed course, nonroad competition/racing and not used for any recreational purpose or on public highways or right of ways maintained by and open to the public. This product is sold only in connection with machines that do not fall under state and/or federal noise or emission standards/regulations. Purchasers who/that purchase this product represent and warrant that the product is purchased only in connection with EPA -certified, emission-regulations-exempt and noise-regulations-exempt competition/racing vehicles as interpreted under applicable state and/or federal law. Questions: Call Evolution Powersports at (715) 247-3862.



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