



015-AXYS8H

*“Setting the World’s
Performance Standards”*

743 E. Iona Road, Idaho Falls, ID 83401, (208) 529-0244 Fax (208) 529-9000

Power Dome™ Billet Heads for 2015-19 Polaris 800 Axys

Kit Contents:

- 1 - Head skull, 2015-17 models (#12-412)
2018-19 models (#12-422)
- 2 - Combustion Chamber Inserts (See Chart)
- 1 - 7/32" x 5/8" Hose Clamp (#12-415)
- 1 - 7/16" x 1" Hose Clamp (#12-414)

Fuel Requirement: 91 octane pump fuel minimum.

Combustion Chamber Insert (Dome) Part #	Altitude
12-407D	0-6000' (0-1525m)
12-409D	6-8000' (1526-2439m)
12-417D	8000'+ (2439m+)

Stock or SLP Stage 1.5 Kit (SLP Lightweight Silencer, Power Dome™ Billet Heads and Clutching)

All Elevations:

No fueling changes are required.

SLP Stage 3 Kit (SLP Single Pipe Set, Power Dome™ Heads, and Clutching)

0-5000' (0-1524m) Elevation:

SLP Stage 3 Kit requires a Bully Dog GT module with SLP Mapping. **Mapping NOT available for 2019 models.**
2015-17 models : The EGT resistor that is supplied with the SLP Single Pipe Set will not be used.

5000' and Above (1524m and above) Elevation:

2015-17 models: SLP Stage 3 kit requires the use of the EGT Resistor supplied with the SLP Pipe Single Set. Refer to SLP Single Pipe Set instruction sheet for installation procedure.

2018 models: No EGT resistor is used, no fuel changes required.

Installation Instructions:

It is important to read these instructions in full before attempting to install SLP Billet Heads. Failure to follow these instructions in full could cause performance loss or engine damage.

1. Remove hood and side panels.
2. Drain antifreeze from engine block then disconnect coolant lines, water neck, temperature sender wire and DET Sensor wire.
3. Remove stock cylinder head. Retain inner and outer o-rings in cylinders.
4. Remove thermostat, water temperature sender, DET sensor, head cover o-ring and spark plug o-rings.
5. Install DET sensor on SLP head skull. (Note orientation of sensor wire in illustration #2) **Torque DET sensor to 12 ft/lbs (16 Nm).** (do not overtighten as DET sensor damage will occur).

Important Note: DET sensor must be torqued to 12 ft/lbs (16 Nm). Over torquing the DET sensor will damage it.

Water temp sensor recommended torque is 29 ft/lbs (39 Nm).

Starting Line Products • 743 E. Iona Rd. Idaho Falls, ID 83401
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6. Install water temperature sensor on SLP head skull. Torque to **29 ft/lbs (39 Nm)**. Install head cover o-ring into groove on SLP head skull.

7. The stock hose clamp on the coolant bypass (underside of head) will be replaced with the included large hose clamp. The stock hose clamp on the throttle body nozzle will be replaced with the included small hose clamp. When installing these hose clamps, make sure the 1/4" bolt head is facing the magneto side of the sled for ease of installation.

8. Insure cylinder surface is clean and o-rings remain in grooves. Install small spark plug o-rings removed in step #4 over the top of the combustion chamber inserts. Install spark plug into chamber inserts and place inserts into SLP head skull. Align the stock head cover, SLP head skull and combustion inserts over the cylinders. Install cover bolts and torque first to **17 ft/lbs (23 Nm)** (see head torque sequence illustration #2). After torquing all twelve head bolt, start again and re-torque to **25 ft/lbs (30 Nm)**. **Helpfull Hint: Grease o-rings (Lubriplate No. 105 Motor Assembly Grease) to help them stay in place.**

9. Torque spark plugs to **22 ft/lbs (30 Nm)**.

10. Connect coolant lines to the coolant bypass and throttle body nozzle. Using a 1/4" socket and a long extension, tighten SLP hose clamps on the coolant bypass and throttle body nozzle.

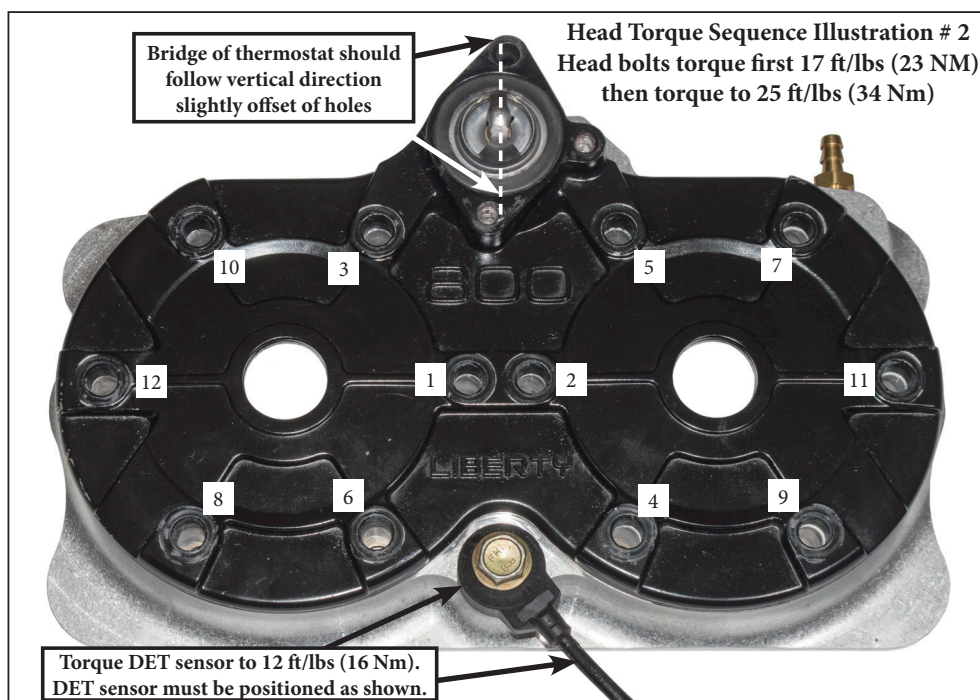
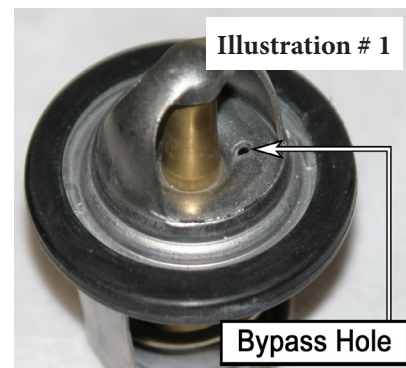
11. Install the thermostat into the head as shown in illustration #1. **IMPORTANT NOTE:** Check the thermostat bleed hole to insure that it is not obstructed in any way. The bleed hole needs to be open (see illustration #1).

12. Install water neck and torque to **9 ft/lbs (12 Nm)**. Connect coolant hoses. Connect temperature sensor and DET sensor wires. Fill coolant to proper level and bleed cooling system.

13. Start engine and inspect for coolant leaks.

Note: Periodically check head bolts for proper torque.

14. Re-install hood and side panels.



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