



Revision: 4.6 - 04/02/2010

Install Time: 2 Hours

Please read ALL of the instructions BEFORE beginning this installation.  
CAUTION: We strongly recommend that a qualified Yamaha technician install this kit.

**INCLUDED IN THE KIT:**

(1) Coil Relocation Plate	(13) M6 x 20mm Cap-head Screws
(2) K&N Intake Air Filters	(12) M6 Nyloc Nuts
(2) Uni-filter Crankcase Vent Filters	(1) 7/16" E-clip
(2) 3/4" Wellnuts	(1) 3/8" Hose x 13" Length
(2) 3/8-16 x 1" Hex Bolt	(1) AIS Kit BA-2551-00
(2) 3/8" Washers	

**INSTRUCTIONS:**

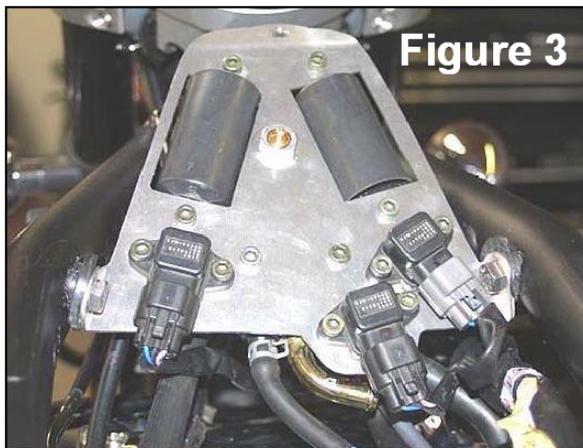
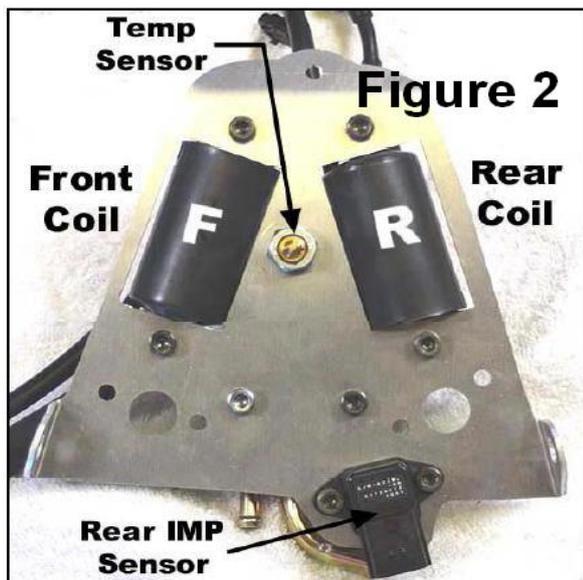
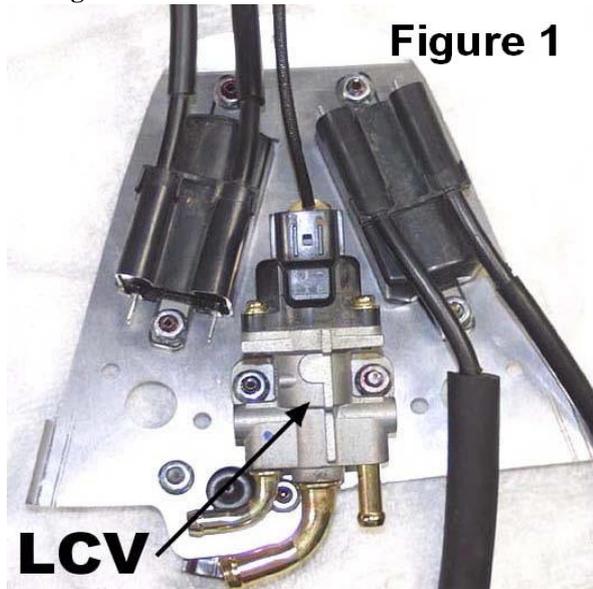
- Remove fuel tank.
- Remove left side chrome "air scoop" cover; remove right side air filter box, then remove air silencer box above throttle bodies.
- Cover open throttle bodies to protect from items falling into engine.
- Label each sensor, electrical connector, and hose for later reconnection. Sensors on right side of air silencer box are intake manifold pressure sensors for front and rear cylinders - mark these IMP-front and IMP-rear. Make sure to mark the sensor, the connector and the hose. The sensor on the left side is air box pressure sensor - mark it AP. Be sure to mark this connector also - it has no hose connected to it.
- Disconnect spark plug wires from the spark plugs.
- Disconnect wires leading to coils - mark for later reconnection.
- Remove coils from the coil bracket - mark coils front and rear.
- Disconnect wire connector from linear control valve. (LCV)
- Disconnect hose from the center of the linear control valve (LCV). Mark and remove hoses that go to each throttle body, noting front and rear.
- Remove bracket from LCV.
- Remove air temperature sensor from front of air silencer box.
- Attach temperature sensor to center hole on new relocation plate. Secure from top with supplied 7/16" e-clip. Refer to FIGURE #2
- Attach front and rear coils to bottom of relocation plate. Secure with supplied M6 screws and nuts.
- Attach LCV to bottom of relocation plate as shown in FIGURE #1.
- Attach rear cylinder IMP sensor to relocation plate as shown in FIGURE #2.
- Place supplied wellnuts into frame, and place relocation plate between wellnuts with tabs pointed up. Loosely secure with supplied 3/8" bolts and washers. Refer to FIGURE #3
- Now the relocation plate may be pivoted to gain access to the connections.
- Attach the front IMP sensor and AP sensor to the relocation plate.
- Attach hoses from front and rear cylinders to linear control valve (LCV) that you marked and removed earlier.
- Attach hoses to IMPs. Extend and/or shorten hoses to front and rear manifolds as necessary using previously removed hoses.
- Connect electrical plugs to sensors and LCV.
- Secure front of coil relocation bracket with supplied M6 screw. Tighten wellnuts in frame.
- Install individual K&N air filters to each throttle body.
- Attach supplied hose to center connector on LCV, and then attach one uni-filter crankcase vent to the other end. Zip-tie filter anywhere below frame rails.
- Attach remaining uni-filter to crank vent and zip-tie below frame rail.

**IMPORTANT NOTES:** We recommend the use of a Dynojet Power Commander III module with installation of this Stealth Big Air Kit. Installation and use of this kit without a Power Commander may cause engine problems and/or

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damage.



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