POWER COMMANDER 6

Install guide for: PC6-22079

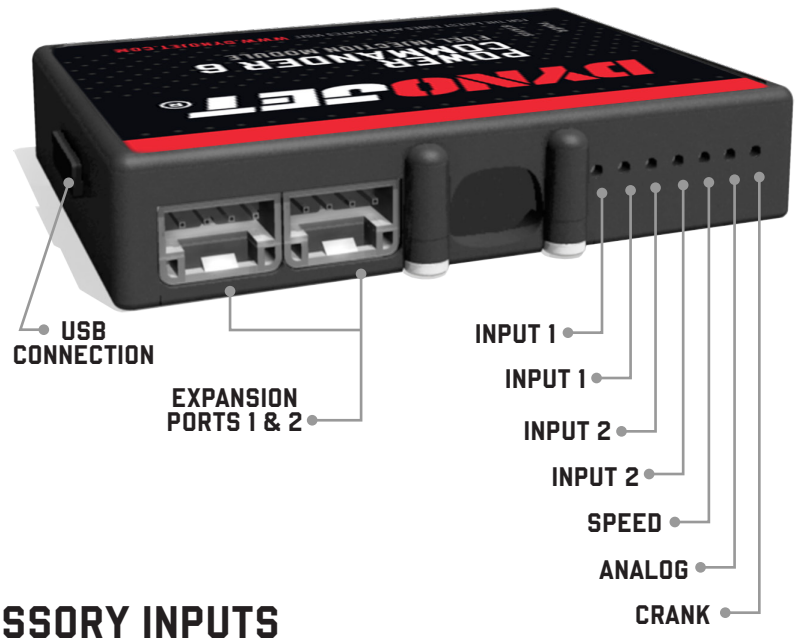
Model coverage: 2016-2020 Yamaha XSR900

PARTS LIST

1	POWER COMMANDER 6	2	VELCRO STRIPS
1	INSTALLATION GUIDE	1	ALCOHOL SWAB
1	USB CABLE	1	POSI-TAP
2	DYNOJET DECALS	1	EO LABEL
2	POWER COMMANDER DECALS		

PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION.
THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION.

INPUT ACCESSORY GUIDE



OPTIONAL ACCESSORY INPUTS

Map (Input 1 or 2) The PC6 has the ability to hold 2 different base maps. You can switch on the fly between these two base maps when you hook up a switch to the MAP inputs. You can use any open/close type switch. The polarity of the wires is not important.

Shifter (Input 1 or 2) Used for clutch-less full throttle upshifts. Insert the wires from the Dynojet quick shifter into either Input 1 or Input 2. The polarity of the wires is not important. Set to Input 2 by default.

Speed If your application has a speed sensor then you can tap into the signal side of the sensor and run a wire into this input. This will allow you to calculate gear position in the Control Center Software. Once gear position is setup you can alter your map based on gear position and setup gear dependent kill times when using a quickshifter. .

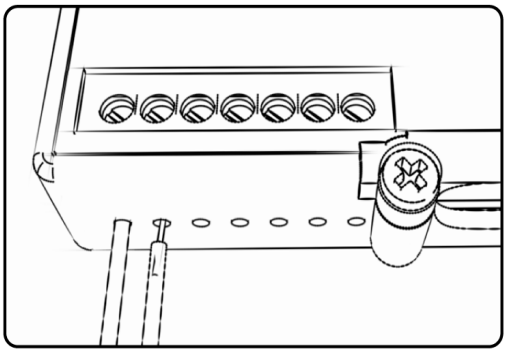
Analog This input is for a 0-5v signal such as engine temp, boost, etc. Once this input is established you can alter your fuel curve based on this input in the Power Core software.

Launch You can connect a wire to either Input 1 or Input 2 and then the other end to a switch. This switch when engaged (continuity) will only allow the RPM to be raised to a certain limit (set in the software). When released, you will have full RPM.

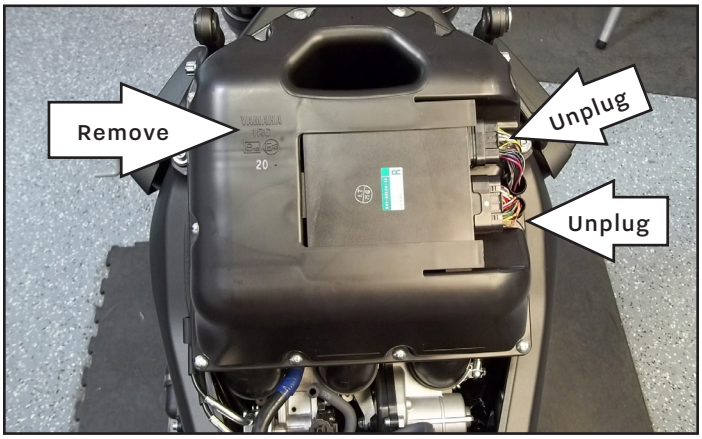
WIRE CONNECTIONS

To input wires into the PC6 first remove the rubber plug on the backside of the unit and loosen the screw for the corresponding input. Using a 22-24 gauge wire, strip about 10mm from its end. Push the wire into the hole of the PC6 until it stops and then tighten the screw. Make sure to reinstall the rubber plug.

NOTE: If you tin the wires with solder it will make inserting them easier.



INSTALLING THE POWER COMMANDER 6



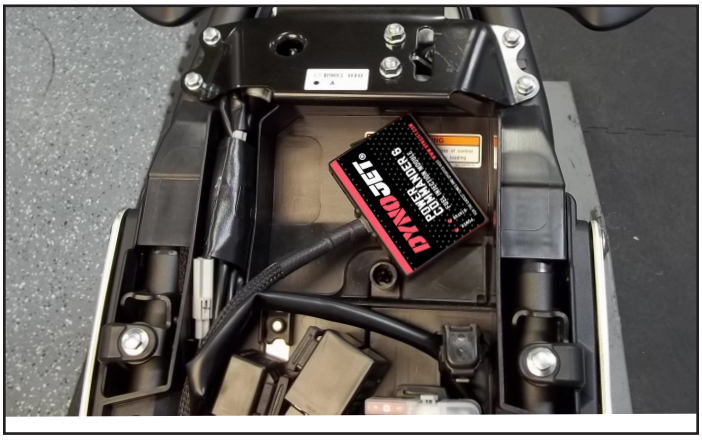
REMOVE AIRBOX

1 Remove the seat.

2 Remove the cosmetic covers around the fuel tank and remove the fuel tank.

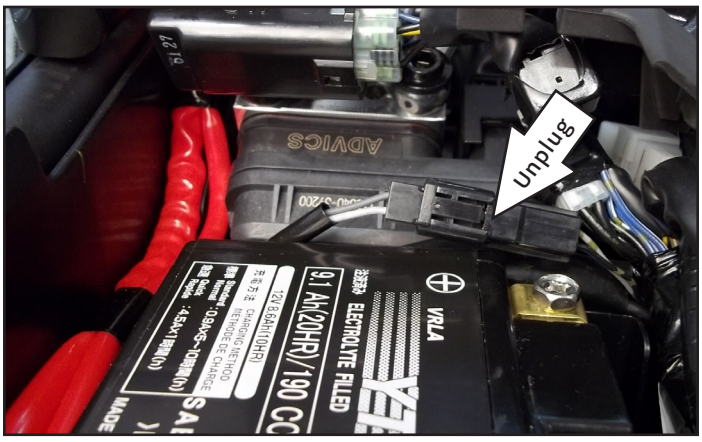
3 Unplug the ECM.

4 Remove the air box.



INSTALL PC6

5 Lay the PC6 in the tail section and route the harness down the right side of the motorcycle.



UNPLUG CPS

6 Locate and unplug the stock Crank Position Sensor connectors.

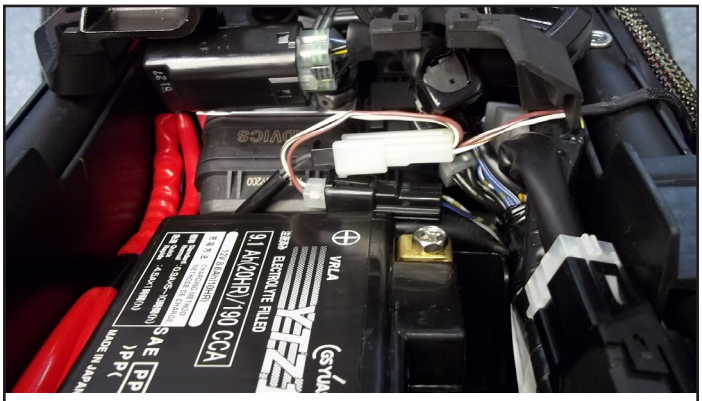
This is a pair of BLACK 2-pin connectors just forward of the battery.

DYNOJET

INSTALLING THE POWER COMMANDER 6

7 Plug the pair of PC6 connectors with BROWN colored wires in-line of the stock Crank Position Sensor connectors.

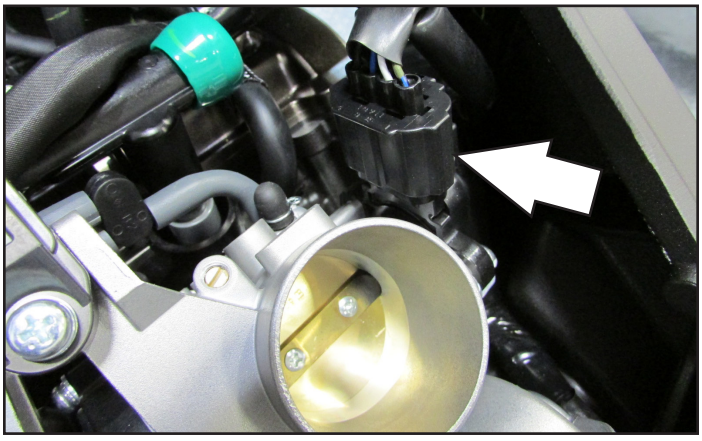
8 Secure the PC6 ground wire with the ring lug to the negative (-) terminal of the bike's battery.



CONNECT TO CPS

9 Unplug the stock Throttle Position Sensor connector.

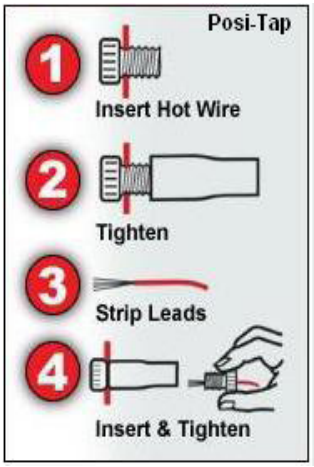
This is a BLACK 4-pin connector on the right side of the throttle bodies.

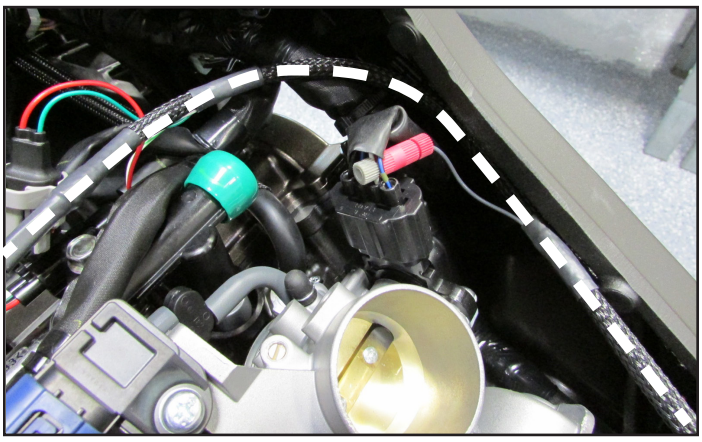


UNPLUG TPS

10 Use the supplied Posi-tap to attach the PC6's GREY wire to the stock WHITE wire of the bike's TPS. Reconnect the stock wiring harness to the TPS after attaching the GREY wire.

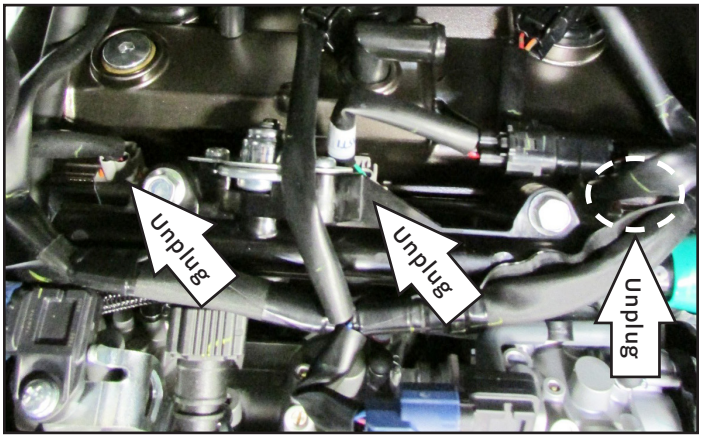
11 Continue routing the PC6 wiring harness across the top of the fuel rail.





CONNECT TO TPS

INSTALLING THE POWER COMMANDER 6



UNPLUG INJECTORS

CONNECT TO INJECTORS

12 Unplug the stock wiring harness from all three of the bike's Fuel Injectors.

The cylinder #3 (right-most) injector cannot be seen from this picture. It is in the vicinity of the dashed circle.

13 Plug the PC6 wiring harness in-line of each Fuel Injector and the stock wiring harness.

PC6 wires:

ORANGE - cylinder #1 (left)
YELLOW - cylinder #2
GREEN - cylinder #3 (right)

14 Affix the supplied CARB E.O. label to a conspicuous area. Next to the original emissions label is the preferred location. Make sure to clean the surface before attaching.

Download the latest map files from our web site at dynojet.com/tunes. Optional Inputs:

Speed - WHITE/YELLOW wire of speed sensor (just above the shift shaft)

12v source for Auto-tune - BLUE wire of WHITE 3-pin tail light connector

Tuning Notes:

This bike uses a fly-by-wire throttle control system, so conventional tuning can not be performed for all RPM and throttle ranges. You will notice that in the maps there are not detailed values below 2750 RPM at 40-100% throttle. This is because the throttle blades will not open more than 40% below this RPM range no matter how much throttle input is given. Therefore this area can not be tuned.

The GREY wire from the PC6 is attached to the throttle blade angle sensor of the throttle bodies which is NOT directly correlated to the throttle grip position. Because of this, when setting the throttle position in the PCV software we recommend on resetting only the closed position (Minimum Voltage) while idling after the bike has completely warmed up. Use the arrow key (<) next to the Minimum Voltage setting to perform this step, and then click OK. Do not try to set the open or Maximum Voltage setting unless you are in gear on a dyno and above 4000 RPM.

PUSH THE LIMIT

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