



Power-jet controller system

Honda RS125 / Honda RS250

Overview

With higher compression fuels there is a requirement to lower the power-jet cut-off rpm point. This is not adjustable on the standard ignitions. The unit also includes a lower throttle roll-off point to reduce engine damage on slow rolling-off the throttle.

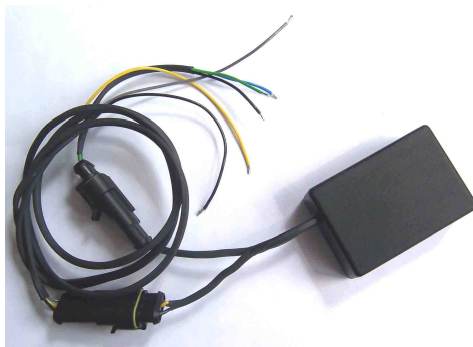
On the RS125 PJ controller system a single 16 position switch selects the RPM point.

On the RS250 PJ controller system 2 separate 16 position switches control each power-jet independently.

<u>Switch Position</u>	<u>Cut-off RPM</u>
0	11,500
1	11,600
2	11,700
3	11,800
4	11,900
5	12,000
6	12,100
7	12,200
8	12,300
9	12,400
10	12,500
11	12,600
12	12,700
13	12,800
14	12,900
15	13,000

Operation

- . The power-jet un-powered is adding fuel, on powering the power-jet this shuts off this fuel jet.
- . Below the Low RPM level at 3000 RPM the jet is not powered to ease starting on generator.
- . If the throttle is disconnected the jet is down powered to add fuel and ensure a safe fuel level.
- . In normal operation as the throttle level is increased the jet opens (down powered) to add fuel, on decreasing (roll-off) the power jet stops adding fuel at a lower throttle level to reduce the leaning off (and subsequent detonation if fuel permits).
- . With high throttle and increasing RPM the jet will cut-off at the RPM level set by the selector switch, if the RPM falls at this throttle then the jet will operate at 300RPM below the cut-off point selected, this reduces the jittering if the RPM is held around the cut-of point.



Wiring

The unit connects to the Taco to obtain the power and the rpm signal, the unit also connects to the throttle signal to control the throttle points, the unit then powers the power jet directly. Mount the unit in the nose of the motorcycle

Connections

In the noise cone:

- Green to taco green
- Blue to taco blue
- Black to taco black

In the air-box:

- Yellow to yellow with blue at the throttle
- Disconnect the 2 pin power-jet connection
- Connect the black to power jet black (not connected to the loom)
- Connect grey to power jet grey (not connected to the loom)

Specifications:

Voltage range	9V to 18V
Input Current	5mA nominal
Drive current	3A maximum
Temperature range	-10degC to +130degC
Weight	Approx 50g
Low RPM level	3000 RPM
Throttle fail below	200mV
Operational throttle	2.9V throttle-on 1.9V throttle-off
Rpm Hysteresis	300RPM

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