

Connector A

1. EGO 1+ - Black/Red – EGO Signal output (Black Wire in O2 sensor)
2. MAT – Tan – Air Temp Sensor ground
3. TRGIDX – White/Blue – Trigger Index Phase Angle Setting, Resets to phase 1(#1 injector). Not necessary for Waste Spark Applications where a toothed wheel is used, but can improve injection accuracy.
4. HALL VCC – White -- 5v + power supply for Hall Sensor (red wire), Not used with VR sensor
5. VR SHLD – Metal --Shield for VRA/TRA, Hall or VR sensor shield.
6. GPO 1 – Brown/Orange –General Purpose Ground Output, up to 8A draw, Nitro, Idle, Fuel Pump, Rad. Fan, etc (5 cyl use as Injector #5 – Dark Green)
7. INJ 3 – Blue – Injector Driver #3, selectable in software
8. INJ 2 – Orange– Injector Driver #2, selectable in software
9. AUX – Tan/Brown – Aux Sensor ground
10. CLT – Light Green – Coolant Temp sensor ground
11. HALL/VR Trigger A – White/Blue – Hall or VR Trigger (use w/shielded #5 wire only)
12. HALL/VR Negative – Metal(for Hall use);White(for VR use) – Hall/VR sensor Negative side
13. GPO 2 – Brown/Green – General Purpose Ground Output, up to 8A draw, Nitro, Idle, Fuel Pump, Rad. Fan, etc (6 cyl use and Injector #6 – White)
14. INJ 4 – Grey – Injector Driver #4, selectable in software
15. INJ 1 – Yellow – Injector Driver #1, selectable in software
16. EGO 1(-) – Grey/Red – O2, ground to chassis and sensor ground (Grey Wire)
17. MAP SEL – Orange/Blue – Dual map input, ground to switch between 2 maps
18. TPS – Purple – TPS signal, usually TPS center pin
19. SENSOR VCC - Yellow/Red – TPS , MAT, CLT, AUX, GPO +, to outside pin 3.3 v
20. TPS GND – Black – TPS Ground, outside pin
21. TACH OUT – Dark Green/White -Tachometer output for RPM 12v+
22. IGN 1 – Green/Yellow – Ignition Coil ground trigger **NOTE:** Use only with dual output Waste Spark Ignition Coil 4-cyl. Or Harley Single Coil 2-cyl.
23. IGN 2 – Green/Orange – Ignition Coil ground trigger **NOTE:** Use only with dual output Waste Spark Ignition Coil 4-cyl. Or Harley Single Coil 2-cyl.

Power Connector

- A. VBAT+ Battery Positive 12v switched from ignition
- B. VBAT- Battery Negative to battery negative terminal

Vac Line –
To intake manifold

NOTE – WIRE COLORS MAY NOT ALWAYS MATCH, WIRE POSITION IN CONNECTOR IS THE ONLY WAY TO DETERMINE WIRE FUNCTION!

***NEVER GROUND ANY SENSOR GROUND TO THE CHASSIS GROUND!
NEVER CONNECT ANY SENSOR GROUND TO BATTERY 12V, THIS WILL DESTROY THE CIRCUIT BOARD AND YOU WILL BE RESPONSIBLE!***

-Extra red and white wire integrated into harness, but not pinned into connector, are switched power and ground for the O2 Sensor. Extra wire provided for providing power to coils, injectors and other solenoids.