

# ECU-422-C ECU Connector Pin-out

## Connector A

1. EGO 1+ - Black/Red – Exhaust Gas Oxygen signal output (Black wire )
2. MAT – Tan – Manifold Air Temp sensor return
3. TRGIDX – Yellow/Brown – Trigger Index Phase Angle Setting, Resets to phase 1(#1 injector). Not necessary for Waste Spark Applications when a toothed wheel is used, but can improve injection accuracy.
4. Hall vcc – Yellow/Orange 5 volt + supply for Hall sensor ( red wire ) optional
5. VR SHLD – Shield for VRA/TRA, Hall Trigger shield, Crankshaft 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)
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 Input 0-3.3 volts / Anti-Lag input / Dual Rev
10. CLT – Lt Green – Coolant Temp sensor return
11. VRA/TRA – White – Hall/VR Trigger (with shielded #8 white wire only)
12. HALL GND – Black – Hall/VR sensor ground (with shielded #8 white wire only)
13. GPO 2 – Brown/Green General Purpose Ground Output, up to 8A draw, Nitro, Idle, Fuel Pump, Rad. Fan ( 6 cyl use as Injector # 6 )
14. INJ 4 – Grey – Injector Driver #4, selectable in software
15. INJ 1 – Yellow – Injector Driver #1, selectable in software
16. EGO 1(-) – Grey/Black – O2, Sensor ground (Gray wire)
17. MAP SEL – Purple – Dual Map Input ground to switch between 2 maps, ground wire for 2<sup>nd</sup> map
18. TPS – Teal – TPS signal, usually Throttle Position Sensor center pin
19. TPS VCC - Yellow/Red – TPS positive, to outside pin 3.3 volt
20. TPS GND – Black – TPS Ground, outside pin
21. TACH OUT – Green/White -Tachometer output for RPM 12 volt +
22. IGN 1 – Green/Yellow – Ignition Coil ground trigger **NOTE:** Use with dual output Waste Spark Ignition Coil (four) cyl. Harley single coil (two) cylinder
23. IGN 2 – Green/Orange – Ignition Coil ground trigger **NOTE:** Use with dual output Waste Spark Ignition Coil (four) cyl. Harley single Coil (two) cylinder.

1. ( B ) Battery Negative Ground-direct to battery
2. ( A ) VBAT+ Battery Positive 12v switched from ignition Power Connector

**Vac Line** – To intake manifold below throttle Plates.