

034EFI Stage IIc ECU Connector Pinout – 5.19.06

**WIRE COLORS MAY NOT ALWAYS MATCH, WIRE POSITION IN CONNECTOR IS THE ONLY WAY TO DETERMINE WIRE FUNCTION!
NEVER CONNECT ANY SENSOR LEADS TO CHASSIS GROUND OR 12V!!!

Connector A – Black

1. INJ 5 – Dark Green – Injector Driver #5, selectable in software
2. INJ 6 – White – Injector Driver #6, selectable in software
3. INJ 7 – Brown – Injector Driver #7, selectable in software
4. INJ 8 – Pink – Injector Driver #8, selectable in software
5. IGN 1 – Green/Yellow – Coil Driver #1, selectable in software
6. IGN 2 – Green/Orange – Coil Driver #2, selectable in software
7. IGN 3 – Green/Blue – Coil Driver #3, selectable in software
8. IGN 4 – Green/Gray – Coil Driver #4, selectable in software
9. INJ 4 – Gray – Injector Driver #4, selectable in software
10. TACH OUT – Dark Green/White Tachometer output for RPM, 12v +
11. GPO 1 – Brown/Orange – 8Amp Gen. Purp. Driver, Cool Fan, Fuel Pump
12. GPO 2 – Brown/Green – 8 Amp Gen. Purpose. Driver
13. GPO 3 – Brown/Red -. 25 amp Low Side Driver, *Use Only w/Relay Trig*
14. GPO 4 – Brn/Yellow -.25 amp Low Side Driver, *Use Only w/Relay Trig*
15. IGN 5 – Green/Dark Green – Coil #5 ,selectable in software
16. INJ 3 – Blue – Injector Driver #3, selectable in software
17. INJ 2 – Orange– Injector Driver #2, selectable in software
18. INJ 1 – Yellow – Injector Driver #1, selectable in software
19. CAN H – Yellow/Blue - Control Area Network output
20. CAN L – Yellow/Green- Control Area Network output
21. IGN 8 – Green/Pink – Coil #8 ,selectable in software
22. IGN 7 – Green/Tan – Coil #7 ,selectable in software
23. IGN 6 – Green/White – Coil Driver # 5, selectable in software

Power Connector

1. VBAT- Battery Negative Ground direct to Battery
2. VBAT+ Battery Positive 12v switched from ignition

Vac Line – To intake manifold

Connector B – Grey

1. IAC (B-) – White/Yellow - Idle Air Motor Pin #D
2. MAT – Tan – Air Temp Sensor ground
3. AUX – Tan/Brown – Aux Sensor gnd (use TPS yellow/red wire for positive), MAP, UEGO, **or** Anti-LAG or Launch Control activation.
4. EGO 1+ - Black/Red – EGO Signal output
5. Not Used
6. TPS GND – Black – TPS Ground, outside pin
7. HALL/VR TRIGGER A – White/Blue – Hall/VR Trigger
8. VR SHLD – Metal -- Shield for VR Trigger
9. IAC (B+) – White/Green - Idle Air Motor Pin #C
10. CLT – Light Green – Coolant Temp sensor ground
11. EGO 1(-) – Grey/Red – O2, ground to chassis and sensor grounds
12. Not Used
13. TPS – Purple – TPS signal, usually TPS center pin
14. HALL/VR NEG – Metal(for Hall); White(for VR) – Hall/VR negative side
15. MAP SEL – Orange/Blue – Ground to switch between 2 maps
16. IAC (A+) – White/Black - Idle Air Motor Pin #B
17. IAC (A-) – White/Red - Idle Air Motor Pin #A
18. MAT VCC – Yellow/Red – Air temp positive
19. CLT VCC - Yellow/Red – Coolant temp positive
20. TPS VCC - Yellow/Red – TPS positive, to outside pin, AUX positive
21. HALL VCC - White – Hall Sensor positive, Not used for VR
22. TRGB – Purple/White – Flywheel TDC trigger for sequential injection **Not Used for distributor ignition systems.**
23. TRGIDX – White/Blue – Camshaft TDC Trigger Index Phase Angle Setting, Resets to phase 1(#1 injector). Set a min. of 45 degrees before or after the TDC reference pulse.