

034EFI Stage IIb 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 Not Used
5. IGN 1 – Green/Yellow – Ignition Coil ground trigger **NOTE:** Use 1 Ohm ballast resistor in positive switched 12v to positive coil terminal.
6. Not Used
7. Not Used
8. Not Used
9. INJ 4 – Gray – Injector Driver #4, selectable in software
10. TACH OUT – Dark Green/White Tachometer output for RPM
11. GPO 1 – Brown/Orange - 8 amp Low Side Driver, Cool Fan, Fuel Pump
12. Not Used
13. Not Used
14. Not Used
15. Not Used
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. Not Used
20. Not Used
21. Not Used
22. Not Used
23. Not Used

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 grnd (use yellow/red wire for positive)
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 VRA/TRA Hall 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. EGO 2 (-) Grey/Yellow –EGO 2 Ground
13. TPS – Purple – TPS signal, usually TPS center pin
14. HALL/VR GND – Metal(for Hall); White(for VR) – Hall sensor ground
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
21. HALL VCC - White – Hall Sensor positive
22. Not Used
23. TRGIDX – Yellow/Brown – Trigger Index Phase Angle Setting, Resets to phase 1(#1 injector). Not necessary for distributor systems but improves accuracy. Requires one pulse per camshaft revolution.