

Wire Identifier for Cummins Celect and Celect Plus ECMs. Typical wiring: your truck may differ.
All terms such as “Supply” and “Return” are relative to the ECM.

Celect Plus A Plug

1. Engine Position Return 1
2. Boost Pressure/Ambient Air Pressure/ Oil Pressure/ Coolant Level Common Supply +5VDC
3. Data Link Disable Signal J1587
4. Service Tool Data Link (+) J1587
5. Control Data Link (+) J1922
6. Oil Temp Signal
7. Oil Pressure Signal
8. Freon Pressure Switch Signal
9. Coolant Level Low
10. Control Data Link (+) J1939
11. Engine Position Return 2
12. Coolant Temp/Ambient Air Temp/Manifold Air Temp/Oil Temp Common Supply +5VDC
13. Boost Pressure/Ambient Air Pressure/Oil Pressure/Coolant Level Common Return
14. Engine Position Signal 2
15. Engine Position Signal 1
16. Diagnostic Switch Signal
17. Coolant Temp Signal
18. Coolant Level High Signal
19. Manual Fan Switch Signal
20. Control Data Link (-) J1939
21. Control Data Link Shield Return
22. Service Tool Data Link (-) J1587
23. Control Data Link (-) J1922
24. Ambient Air Temp Signal
25. Manifold Air Temp Signal
26. Boost Pressure Signal
27. Ambient Air Pressure Signal
28. No Standard Connection

Celect Plus B Plug

1. Engine Protection (Fluids) Lamp Input
2. Cruise Control/PTO On/Off Signal
3. Vehicle Speed Sensor Signal
4. Clutch Signal
5. Engine Brake Selector 1 Signal
6. Idle Validation Idle Signal
7. Vehicle Speed Sensor Return
8. Vehicle Data Link (-) J1587
9. Idle Validation Off-Idle Signal
10. Switch Common Return
11. Throttle Position Signal
12. Cruise Control/PTO Set/Coast Signal
13. Service Brake Signal (4 PSI to Open)
14. Idle/Diagnostic Increment Signal
15. Remote PTO Engage Signal
16. Red Diagnostic Lamp Signal
17. Digital Tachometer Signal
18. Throttle Position Supply +5VDC
19. Throttle Position Return
20. Accelerator Interlock Signal/Alternate Droop
21. Alternate Torque Signal
22. Cruise Control/PTO Resume/Accel Signal
23. Idle/Diagnostic Decrement Signal
24. No Standard Connection
25. Yellow Diagnostic Lamp Input
26. No Standard Connection
27. Vehicle Data Link (+) J1587
28. Engine Brake Selector 2 Signal

Celect Plus C Plug

1. Injector 1 Supply
2. Injector 5 Return
3. Injector 3 Supply
4. Injector 6 Return
5. Injector 2 Supply
6. Injector 4 Return
7. Fan Clutch Supply 1 (Coolant)
8. Top 2 Lockout Solenoid or Starter Lockout Relay Supply
9. Battery Return (-)
10. Injector 1 Return
11. Injector 5 Supply
12. Injector 3 Return
13. Injector 6 Supply
14. Injector 2 Return
15. Injector 4 Supply
16. Fuel Shutoff Supply +12VDC (2 AMP)
17. Fan Clutch Supply 2 OR Top 2 Shift Solenoid
18. Engine Brake Coil 2
19. Engine Brake Coil 1 (& 3 for N-14)
20. UN-switched Battery (+)
21. UN-switched Battery (+)
22. UN-switched Battery (+)
23. UN-switched Battery (+)
24. Vehicle Accessories Shutoff Supply
25. Battery Return (-)
26. Vehicle Key Switch Input +12VDC
27. Battery Return (-)
28. No Standard Connection

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Celect A Plug

1. Engine Position Return 1
2. Boost Pressure Supply +5VDC
3. Oil Temp/Coolant Level +5VDC Supply
4. Boost Pressure Return
5. Ambient Air Pressure +5VDC Supply
6. Oil Temp Signal
7. Oil Pressure Signal
8. No Standard Connection
9. Coolant Level Low
10. Control Data Link (+)
11. Engine Position Return 2
12. Coolant Temp Supply +5VDC
13. Oil Pressure/Coolant Level Common Return
14. Engine Position Signal 2
15. Engine Position Signal 1
16. No Standard Connection
17. Coolant Temp Signal
18. Coolant Level High Signal
19. No Standard Connection
20. Control Data Link (-)
21. Manifold Air Temp +5VDC Supply
22. Service Tool Data Link (-) J1587
23. Oil Pressure +5VDC Supply
24. No Standard Connection
25. Manifold Air Temp Signal
26. Boost Pressure Signal
27. Ambient Air Pressure Signal
28. No Standard Connection

Celect B Plug

1. Engine Protection (Fluids) Lamp Input
2. Cruise Control/PTO On/Off Signal
3. Vehicle Speed Sensor Signal
4. Clutch Signal
5. Engine Brake Selector On/Off Signal
6. Idle Validation Idle Signal
7. Digital Vehicle Speed/Vehicle Speed Sensor Signal
8. Vehicle Data Link (-)
9. Idle Validation Off-Idle Signal
10. Switch Common +5VDC Supply
11. Throttle Position Signal
12. Cruise Control/PTO Set/Coast Signal
13. Service Brake Signal (4 PSI to Open)
14. Idle/Diagnostic Increment Signal
15. Remote PTO Engage Signal
16. Red Diagnostic Lamp Input
17. Digital Tachometer Signal
18. Throttle Position Supply +5VDC
19. Throttle Position Return
20. No Standard Connection
21. Diagnostic Test Signal
22. Cruise Control/PTO Resume/Accel Signal
23. Idle/Diagnostic Decrement Signal
24. Digital Vehicle Speed Return
25. Yellow Diagnostic Lamp Input
26. Digital Tachometer Return
27. Vehicle Data Link (+)
28. No Standard Connection

Celect C Plug

1. Injector 1 Supply
2. Injector 5 Return
3. Injector 3 Supply
4. Injector 6 Return
5. Injector 2 Supply
6. Injector 4 Return
7. Fan Clutch Supply +12VDC
8. No Standard Connection
9. Battery Return (-)
10. Injector 1 Return
11. Injector 5 Supply
12. Injector 3 Return
13. Injector 6 Supply
14. Injector 2 Return
15. Injector 4 Supply
16. Fuel Shutoff Supply +12VDC (2 AMP)
17. No Standard Connection
18. Engine Brake Relay Supply
19. No Standard Connection
20. UN-switched Battery (+)
21. UN-switched Battery (+)
22. UN-switched Battery (+)
23. UN-switched Battery (+)
24. No Standard Connection
25. Battery Return (-)
26. Vehicle Key Switch Input +12VDC
27. Battery Return (-)
28. No Standard Connection