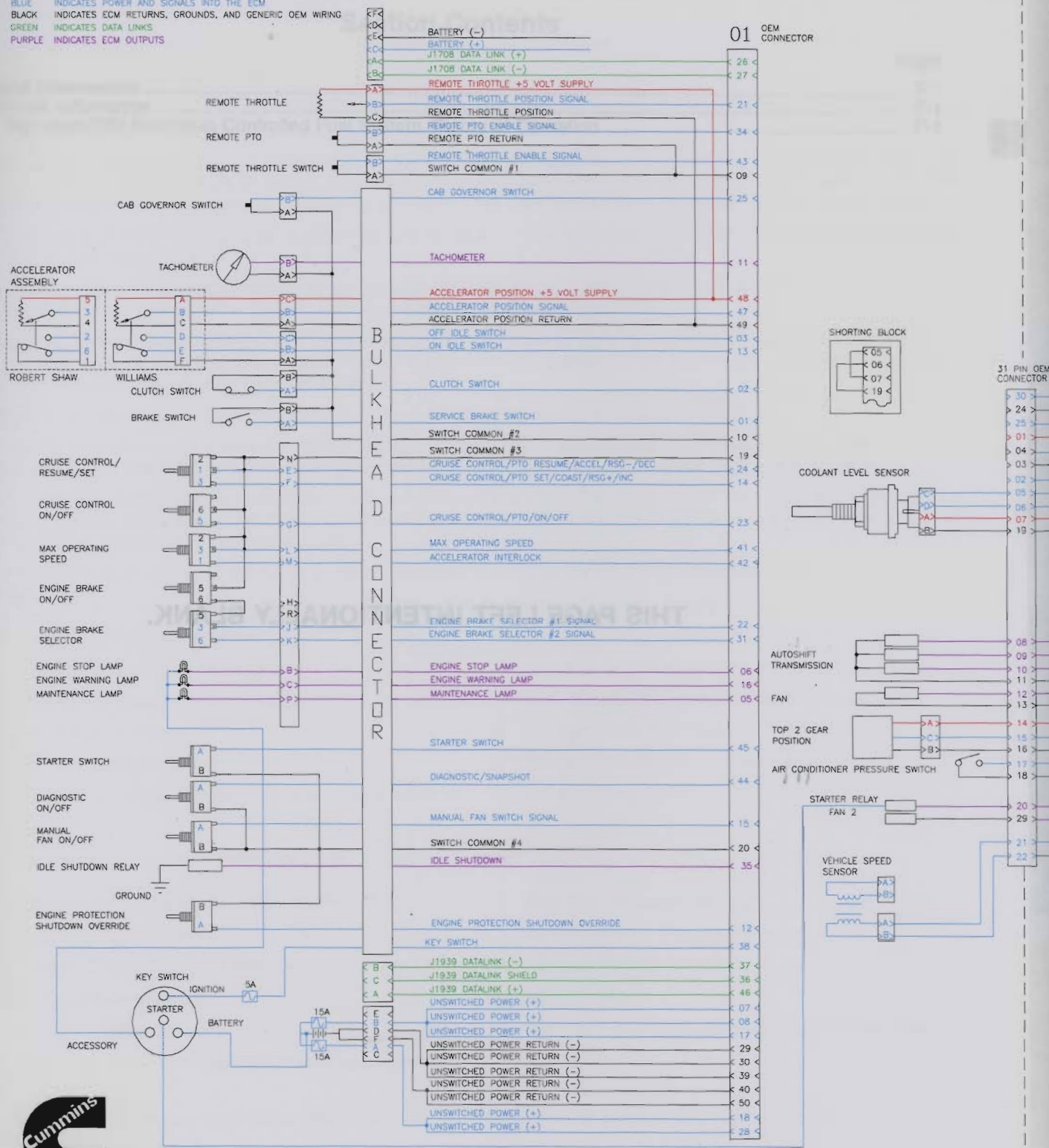


RED INDICATES POWER SUPPLIED BY THE ECM
 BLUE INDICATES POWER AND SIGNALS INTO THE ECM
 BLACK INDICATES ECM RETURNS, GROUNDS, AND GENERIC OEM WIRING
 GREEN INDICATES DATA LINKS
 PURPLE INDICATES ECM OUTPUTS

Section F - Familiarization

OEM RESPONSIBILITY



Cummins Engine Company, Inc.

ISM™ WIRING DIAGRAM

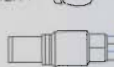
(for ECM Part No. 3680509) Bulletin 3666269

NOTE: SOME OF THE CIRCUITS SHOWN HERE WILL NOT BE ACTIVE IN ALL APPLICATIONS. CONSULT THE EQUIPMENT MANUFACTURER'S LITERATURE TO DETERMINE WHICH CIRCUITS ARE USED.

OEM RESPONSIBILITY

CUMMINS RESPONSIBILITY

ENGINE POSITION



WE ENGINE POSITION SENSOR 1 (+)
GN ENGINE POSITION SENSOR 1 (-)
RD ENGINE POSITION SENSOR 2 (+)
BK ENGINE POSITION SENSOR 2 (-)

AMBIENT AIR PRESSURE



A> AMBIENT AIR PRESSURE +5 VOLT SUPPLY (VSEN1)
C> AMBIENT AIR PRESSURE SIGNAL
B> AMBIENT AIR PRESSURE RETURN

OIL PRESSURE/TEMPERATURE



P1> OIL PRESSURE/TEMPERATURE +5 VOLT SUPPLY (VSEN2)
P3> OIL PRESSURE SIGNAL
P4> OIL TEMPERATURE SIGNAL
P2> OIL PRESSURE/TEMPERATURE RETURN

COOLANT TEMPERATURE



A> COOLANT TEMPERATURE RETURN
B> COOLANT TEMPERATURE INPUT
P1> CENTINEL +5 VOLT SUPPLY (VSEN2)

CENTINEL INTERFACE

P1> CENTINEL OIL LEVEL SIGNAL
P3> CENTINEL OIL LEVEL RETURN
P2> NOT USED
P4> CENTINEL ACTUATOR
P5> CENTINEL RETURN

INTAKE MANIFOLD PRESSURE



A> INTAKE MANIFOLD PRESSURE +5 VOLT SUPPLY (VSEN1)
C> INTAKE MANIFOLD PRESSURE SIGNAL
B> INTAKE MANIFOLD PRESSURE RETURN

INTAKE MANIFOLD TEMPERATURE



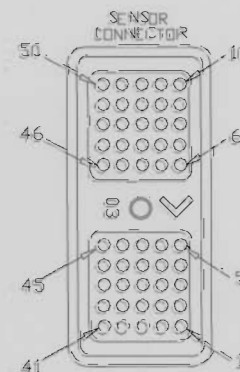
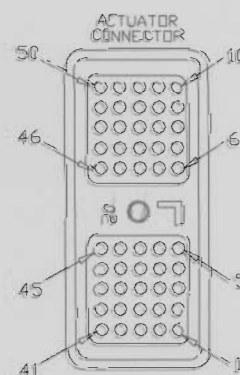
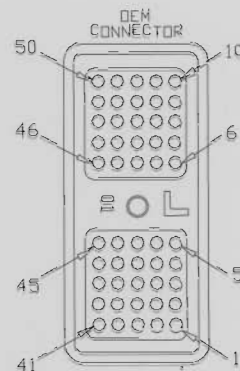
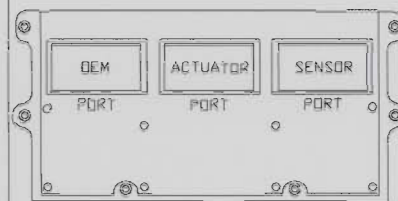
A> INTAKE MANIFOLD TEMPERATURE RETURN
B> INTAKE MANIFOLD TEMPERATURE INPUT

WATER IN FUEL

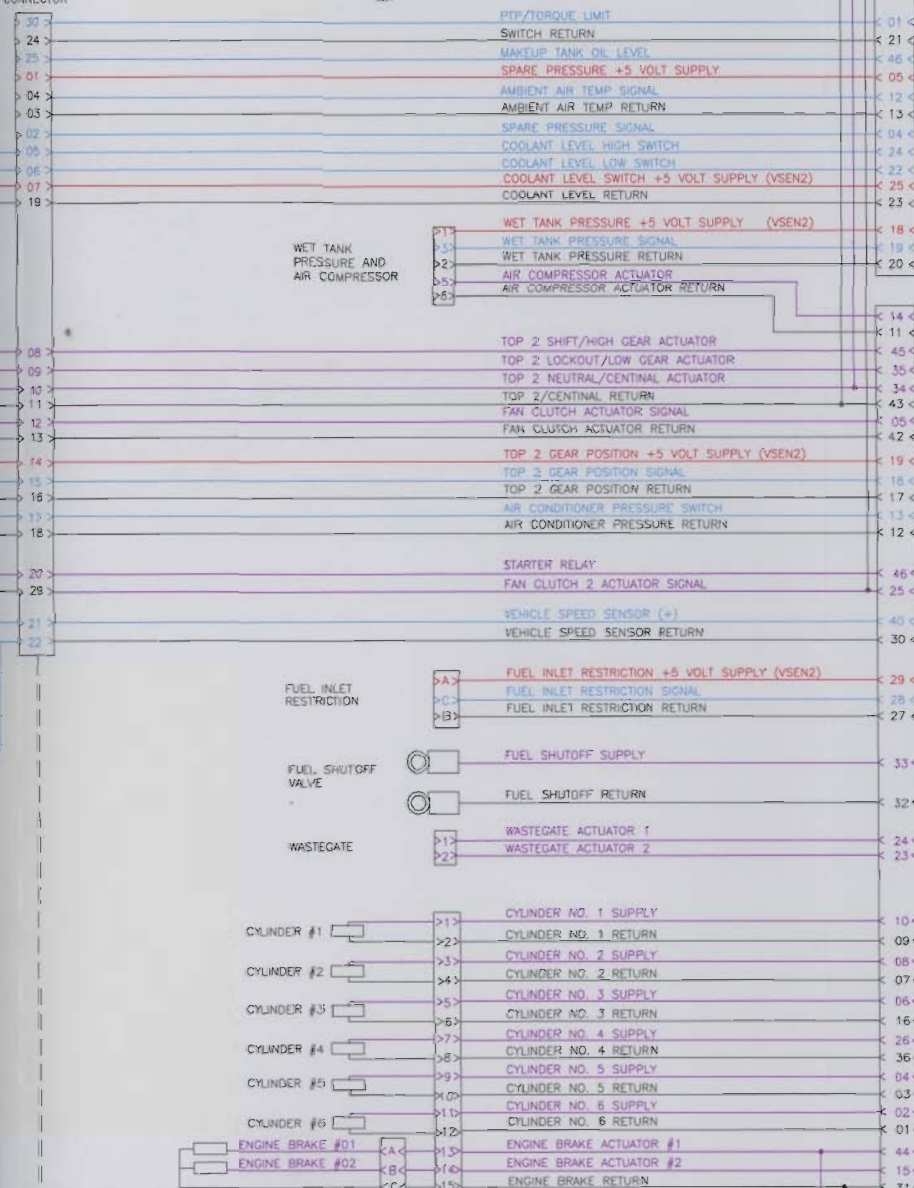


A> WIF SIGNAL RETURN
B> WIF SIGNAL

02 SENSOR CONNECTOR



31 PIN OEM CONNECTOR



CUMMINS RESPONSIBILITY

15 PIN PASS THROUGH CONNECTOR

ENGINE BRAKE SIGNAL DISCONNECT

03 ACTUATOR CONNECTOR