RED — DC VOLTAGE
BLUE — INPUT SIGNAL
BLACK — GROUNDS, SHIELDS AND RETURNS
PURPLE — OUTPUT SIGNAL
GREEN — DATA LINKS

REPRESENTS FEMALE PINS
REPRESENTS MALE PINS
REPRESENTS TWISTED PAIR
REPRESENTS SHIELD

OEM RESPONSIBILITY

CUMMINS RESPONSIBILITY

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.

SENSOR HARNESS L10 PART NUMBER 3073926
SENSOR HARNESS L10 PART NUMBER 3073930
SENSOR HARNESS M11 PART NUMBER 3083781
SENSOR HARNESS N14 WITH FLANGE-MOUNT PRESSURE SENSOR PART NUMBER 3618304
SENSOR HARNESS N14 WITH THREADED PRESSURE SENSOR PART NUMBER 3076354
SENSOR HARNESS N14 WITH THREADED PRESSURE SENSOR

ACTUATOR HARNESS L10 PART NO. 3073927 ACTUATOR HARNESS M11 PART NO. 3083779
ACTUATOR HARNESS N14 WITH FLANGE-MOUNT PRESSURE SENSOR PART NUMBER 3618300
ACTUATOR HARNESS N14 WITH THREADED PRESSURE SENSOR PART NUMBER 3076352
*THESE TWO CAN BE INTERCHANGED IF NECESSARY

8 PIN CONNECTOR
4 OPEN
6 OPEN
7 OPEN
8 NOT USED
3 SUPPLY
5 RETURN
1 POSITIVE
2 NEGATIVE

6 PIN CONNECTOR
D OPEN
F NOT USED
C SUPPLY
E RETURN
A POSITIVE
B NEGATIVE

VEHICLE SPEED SENSOR
VEHICLE SPEEDOMETER
VEHICLE SPEEDOMETER
SIGNAL — VEHICLE SPEED SENSOR — 03
RETURN — VEHICLE SPEED SENSOR — 07
SIGNAL — DIGITAL VEHICLE SPEED SENSOR — 07
RETURN — DIGITAL VEHICLE SPEED SENSOR — 24
SIGNAL — REMOTE PTO ENGAGE — 15
5 VOLT SUPPLY

2 PIN CONNECTOR
POSITIVE — VEHICLE DATA LINK — 27
NEGATIVE — VEHICLE DATA LINK — 08

BULKHEAD CONNECTOR

SUPPLY — DIGITAL TACHOMETER — 17
RETURN — DIGITAL TACHOMETER — 26

ISS THROTTLE DESIGN
6 PIN OPTION
TWO 3 PIN OPTION
C 5 VOLT SUPPLY — 18
A SIGNAL — 11
B RETURN — 19
D SIGNAL — 09
E SIGNAL — 06
F 5 VOLT SUPPLY — 10

NON-ISS THROTTLE
FLOOR MOUNT OPTION
SUSPENDED OPTION
A 5 VOLT SUPPLY
B SIGNAL
C RETURN
SIGNAL
5 VOLT SUPPLY

5 VOLT SUPPLY — THROTTLE POSITION — 18
SIGNAL — THROTTLE POSITION — 11
RETURN — THROTTLE POSITION — 19
SIGNAL — IDLE VALIDATION OFF-IDLE — 09
SIGNAL — IDLE VALIDATION IDLE — 06
5 VOLT SUPPLY — SWITCH COMMON — 10

* OEM SUPPLIED WIRING

CLUTCH PEDAL POSITION SWITCH — SIGNAL — CLUTCH — 04
BRAKE SWITCH — SIGNAL — SERVICE BRAKE 28 KPA [4 PSI] TO OPEN — 13
DIAGNOSTIC PLUG — SIGNAL — DIAGNOSTIC TEST — 21
CRUISE CONTROL/PTO RESUME/SET SWITCH — SIGNAL — CRUISE CONTROL/PTO RESUME/ACCEL — 22
CRUISE CONTROL SET SWITCH — SIGNAL — CRUISE CONTROL/PTO SET/COAST — 12
ENGINE BRAKE SWITCH — SIGNAL — CRUISE CONTROL/PTO ON/OFF — 02
IDLE INCREMENT/DECREMENT SWITCH — SIGNAL — ENGINE BRAKE ON/OFF — 05
SIGNAL — IDLE/DIAGNOSTIC DECREMENT — 23
SIGNAL — IDLE/DIAGNOSTIC INCREMENT — 14
RED STOP LAMP — SIGNAL — RED DIAGNOSTIC LAMP — 16
AMBER WARNING LAMP — SIGNAL — YELLOW DIAGNOSTIC LAMP — 25
ENGINE PROTECTION RED STOP LAMP — SIGNAL — ENGINE PROTECTION LAMP — 01

SHORTING PLUG
A
J
C
B

COOLANT LEVEL SENSOR
C
B
D
A

ENGINE BRAKE SELECTOR SWITCH
12 VOLT SUPPLY — ENGINE BRAKE SOLENOID — G
12 VOLT SUPPLY — ENGINE BRAKE SOLENOID — H
ENGINE BRAKE RELAY
12 VOLT SUPPLY — FAN CLUTCH — E
12 VOLT SUPPLY — ENGINE BRAKE RELAY — F
12 VOLT SUPPLY — VEHICLE KEY SWITCH — D

5 AMP FUSE
5 AMP FUSE
5 AMP FUSE
IGNITION
STARTER
ACCESSORY
BATTERY
KEYSWITCH

BATTERY
UNSWITCHED BATTERY — C
BATTERY — B
UNSWITCHED BATTERY — A

ECM PART NUMBER 3084473 AND 3619037
SUPPLY VOLTAGE ON
FAN CLUTCH
MANUAL FAN SWITCH
TO OTHER FAN INPUT
FREON COMPRESSOR
TYPICAL FAN CLUTCH WIRING FOR PART NO'S 3618046 & 3619037 ECMS (CHECK YOUR SPECIFIC APPLICATION)

ECM PART NUMBER 3084473
MANUAL FAN SWITCH NC
FREON PRESSURE SWITCH NC
FAN CLUTCH
TYPICAL FAN CLUTCH WIRING FOR PART NO. 3084473ECM (CHECK YOUR SPECIFIC APPLICATION)

WIRE NUMBERS — L10 / M11 / N-14 ALL — CONNECTOR A

ENGINE POSITION SENSOR
RD — D — SIGNAL 2 — 001 001 001 — 14
BK — A — RETURN — 002 002 002 — 11
WE — B — SIGNAL 1 — 003 003 003 — 15
GN — C — RETURN — 004 004 004 — 01

BOOST PRESSURE SENSOR
A 5 VOLT SUPPLY — 005 005 005 — 02
C SIGNAL — 006 006 006 — 26
B RETURN — 007 007 007 — 04

AMBIENT AIR PRESSURE SENSOR
A 5 VOLT SUPPLY — 026 008 008 — 05
C SIGNAL — 027 009 009 — 27
B RETURN — 028 010 010 — 23

COOLANT TEMPERATURE SENSOR
A 5 VOLT SUPPLY — 015 018 018 — 12
B SIGNAL — 016 019 019 — 17

MANIFOLD AIR TEMPERATURE SENSOR
A 5 VOLT SUPPLY — 017 020 020 — 21
B SIGNAL — 018 021 021 — 25

OIL PRESSURE SENSOR
A 5 VOLT SUPPLY — 008 011 011 — 22
C SIGNAL — 009 012 012 — 07
B RETURN — 010 013 013 — 13

OIL TEMPERATURE SENSOR
B SIGNAL — 014 017 017 — 06
A 5 VOLT SUPPLY — 013 016 016 — 03

COOLANT LEVEL — 5 VOLT SUPPLY
COOLANT LEVEL — RETURN
COOLANT LEVEL HIGH — SIGNAL — 011 014 014 — 18
COOLANT LEVEL LOW — SIGNAL — 012 015 015 — 09
CONTROL DATA LINK
A POSITIVE — 019 022 022 — 10
B NEGATIVE — 020 023 023 — 20

L-10/M-11 ENGINE BRAKE
A ENGINE BRAKE COIL 1 HEAD
B ENGINE BRAKE COIL 2 HEAD

N-14 ENGINE BRAKE
A ENGINE BRAKE COIL 3 HEAD
B ENGINE BRAKE COIL 1 HEAD
ENGINE BRAKE COIL 2 HEAD

FUEL SHUTOFF — 2 AMP

WIRE NUMBERS — L10 / M11 / N-14 3616599 / N-14 OTHERS — CONNECTOR C

FAN CLUTCH — B — 12 VOLT SUPPLY — 013 013 013 013 — 16
ENGINE BRAKE RELAY — C — 12 VOLT SUPPLY — 020 020 022 020 — 07
A — 12 VOLT SUPPLY — 019 019 021 019 — 18
12 VOLT SUPPLY — 021 021 023 021 — 26
10 AMP FUSE — A — 12 VOLT SUPPLY — 014 014 016 014 — 23
12 VOLT SUPPLY — 014 014 016 014 — 22
RETURN — 018 018 020 018 — 27
RETURN — 018 018 020 018 — 25
RETURN — 018 018 020 018 — 09
10 AMP FUSE — B — 12 VOLT SUPPLY — 016 016 018 016 — 21
12 VOLT SUPPLY — 016 016 018 016 — 20

L10 / M11 — N14

INJECTOR 1 — SUPPLY — 001 001 001 001 — 01
RETURN — 002 002 002 002 — 10
INJECTOR 5 — SUPPLY — 009 009 009 009 — 11
RETURN — 010 010 010 010 — 02
INJECTOR 3 — SUPPLY — 005 005 005 005 — 03
RETURN — 006 006 006 006 — 12
INJECTOR 6 — SUPPLY — 011 011 011 011 — 13
RETURN — 012 012 012 012 — 04
INJECTOR 2 — SUPPLY — 003 003 003 003 — 05
RETURN — 004 004 004 004 — 14
INJECTOR 4 — SUPPLY — 007 007 007 007 — 15
RETURN — 008 008 008 008 — 06

ROCKER BOX PASS THROUGH

SENSOR CONNECTOR A
NC 09 NC 18 27 17 NC 26 07 NC 25 15 06 NC 14 05 23 13 04 22 12 03 21 11 02 20 10 01

OEM CONNECTOR B
NC 19 09 18 27 08 17 07 26 16 06 25 15 05 24 14 04 23 13 03 22 12 02 21 11 01 NC 10

ACTUATOR CONNECTOR C
01 10 20 02 11 21 03 12 22 04 13 23 05 14 NC 06 15 25 07 16 26 NC 27 NC 18 28 09 NC

CELECT™ Wiring Diagram

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Cummins Inc.

OEM RESPONSIBILITY

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