OEM RESPONSIBILITY

VEHICLE INTERFACE HARNESS CONNECTOR

LABEL	WIRE NO.	CAVITY	COLOR
COOLANT LEVEL	115	H-3	ORN
LIMITING SPEED GOVERNOR	417	D-2	DK BLUE
CHECK ENGINE LIGHT	419	B-1	PPL/WHT
IGNITION	439	B-3	PNK
DIGITAL INPUT E-1	451	E-1	LT GRN
DIGITAL OUTPUT F-3	499	F-3	LT BLU
TACHOMETER DRIVE	505	K-1	GRA
STOP ENGINE LIGHT	509	B-2	PPL
VARIABLE SPEED GOVERNOR	510	D-1	BRN
DIGITAL INPUT H-1	523	H-1	GRA/RED
DIGITAL INPUT H-2	524	H-2	GRA
DIGITAL INPUT G-1	528	G-1	BRN/RED
DIGITAL INPUT J-2	531	J-2	ORN
DIGITAL INPUT J-1	541	J-1	YEL/RED
DIGITAL INPUT F-1	542	F-1	YEL
DIGITAL INPUT G-2	543	G-2	ORN/BLK
DIGITAL INPUT F-2	544	F-2	BRN/WHT
DIGITAL INPUT G-3	545	G-3	LT BLUE/YEL
DIGITAL OUTPUT A-2	555	A-2	TAN
VEHICLE SPEED (+)	556	E-2	LT BLUE/BLK
VEHICLE SPEED (–)	557	E-3	LT BLUE/ORN
DIGITAL INPUT K-2	583	K-2	LT BLUE/BLK
ANALOG INPUT #7	749	D-3	YEL
DATA LINK (+)	900	C-2	DK GREEN/YEL
DATA LINK (–)	901	C-1	DK GREEN
PWM #1 OUTPUT	908	J-3	WHT
SENSOR SUPPLY (5VDC)	916	A-3	RED/BLK
SENSOR RETURN	952	C-3	BLK
DIGITAL INPUT K-3	979	K-3	WHT
DIGITAL OUTPUT A-1	988	A-1	GRA

IGNITION CONNECTOR

+12V FROM BATTERY	440	A	ORN
BATTERY GROUND	953	B	BLK/WHT

VEHICLE INTERFACE HARNESS

953 BLK/WHT A69

DEDICATED 12/24 VDC BATTERY POWER MUST BE SOURCED DIRECTLY FROM BATTERY POST OR BUS BAR

440 ORN A69

SWITCHED IGNITION

OFF / ON

WIRE NO. 439 COLOR PNK

MUST PROVIDE IGNITION POWER IN RUN AND CRANK MODES. DO NOT SOURCE ANY ACCESSORY FROM CIRCUIT 439

A B C D E F G H J K

1 2 3

30 WAY CONNECTOR
DDC P/N 12034398
TERMINAL
DDC P/N 12103881

ALL UNUSED CAVITIES REQUIRE PLUGS (DDC P/N 12034413)

CONNECTOR
DDC P/N 12015378
TERMINAL
DDC P/N 12089188

B A

NOTE:
FUSE MUST BE PLACED BETWEEN MATING CONNECTOR AND BATTERY

TO ENGINE SENSOR HARNESS PIGTAIL

A B C

565	RED	E9
564	TAN/BLK	E9
563	YEL	E9

CONNECTOR DDC P/N 12129615
TERMINAL DDC P/N 12045773
CABLE SEAL DDC P/N 12052924
SECONDARY LOCK DDC P/N 1252845

IGNITION

GOVERNOR

WIRE NO. COLOR

916 RED/BLK — C
417 DK BLUE — B
952 BLK — A

LIMITING SPEED GOVERNOR (THROTTLE POSITION SENSOR)

916 RED/BLK — C
510 BRN — B
952 BLK — A

VARIABLE SPEED GOVERNOR (POWER TAKE-OFF CONTROL)

CRUISE CONTROL

DASH PANEL

WIRE NO. COLOR

439 PNK — GN

DIGITAL OUTPUT

DIGITAL INPUT — CRUISE ENABLE SWITCH (OFF / ON)

DIGITAL INPUT — RESUME/ACCEL SWITCH (OFF / ON)

DIGITAL INPUT — SET/COAST SWITCH (OFF / ON)

DIGITAL INPUT — BRAKE SWITCH (ON / OFF)

DIGITAL INPUT — CLUTCH SWITCH (ON / OFF)

953 BLK/WHT

VEHICLE SPEED SENSOR

556 LT BLU/BLK — SIGNAL

557 LT BLU/ORN — RETURN

DIGITAL INPUT
DIGITAL INPUT
DIGITAL INPUT
DIGITAL INPUT

DIGITAL OUTPUT
DIGITAL OUTPUT

VEHICLE INTERFACE HARNESS

COOLANT LEVEL SENSOR

WIRE NO.	CAVITY	COLOR
115	A	ORN
953	B	BLK/WHT

A B

280 SERIES METRI-PACK CONNECTOR (INCLUDED IN DDC KIT 15300027)

COOLANT LEVEL PROBE
3/8" NPT:
DDC P/N 23512881
1/4" NPT:
DDC P/N 23512880

INSTRUMENT PANEL

WIRE NO. COLOR

509 PPL — RD — STOP ENGINE LIGHT RED

419 PPL/WHT — YEL — CHECK ENGINE LIGHT YELLOW

439 PNK

POWER HARNESS- SINGLE ECM SINGLE FUSE

12 OR 24 VDC SUPPLY

(+) BATTERY POSITIVE

(–) BATTERY NEGATIVE

CRIMP WIRES INTO SINGLE CONNECTOR AT BATTERY ONLY

COLOR–RED. SEE POWER HARNESS ASSEMBLY SECTION FOR APPROPRIATE CABLE SIZE (2) CABLES REQ'D.

COLOR–BLACK. SEE POWER HARNESS ASSEMBLY SECTION FOR APPROPRIATE CABLE SIZE (4) CABLES REQ'D.

FUSE

5 AMP IGNITION FUSE

CONNECTOR
P/N 12124634
TERMINAL
P/N 12077413
CABLE SEAL / 5 NEEDED
P/N 12015193
SECONDARY LOCK
P/N 12052816

ECM POWER CONNECTOR

E C B D A

CAVITY	WIRE NO.
C	241
E	150
B	151
D	150
A	240
A	440
B	953

* USE 12 AWG WIRE NOT TO EXCEED 14 FEET IN LENGTH. REFER TO POWER HARNESS SECTION FOR CABLE REQUIREMENTS. (5 PLACES)

NOTE:
TO VEHICLE INTERFACE HARNESS CAN BE 18 AWG FOR ENTIRE DISTANCE

IGNITION CONNECTOR

CONNECTOR
P/N 12034074
TERMINAL
P/N 12089040

* USE WATERPROOF SPLICES TO SPLICE 12 GA. WIRES TO APPROPRIATE WIRE GAUGE CABLES FROM BATTERY POWER

DIAGNOSTIC CONNECTOR

WIRE NO.	CAVITY	COLOR	LABEL
900	A	DK GRN/YEL	DATA LINK (+)
901	B	DK GRN	DATA LINK (–)
—	C	RED	+ 12/24 VDC
—	D	CAVITY PLUG P/N 23507136	
953	E	BLK/WHT	BATTERY GROUND
—	F	CAVITY PLUG P/N 23507136	

B F A C E D

CONNECTOR & SEAL ASSEMBLY
DDC P/N 23513052

PROTECTIVE CAP
DDC P/N 23513054

TERMINAL
DDC P/N 23513053

WIRE NO. COLOR

DIGITAL INPUT

953 BLK/WHT — N.O. — DIAGNOSTIC REQUEST AND STOP ENGINE OVERRIDE SWITCH

NOTE: SEE DOCUMENTATION ON OPERATION

MISCELLANEOUS

WIRE NO. COLOR

908 WHT — PWM #1

505 GRA — TACHOMETER DRIVE

563 YEL — DIGITAL OUTPUT W-3

564 TAN/BLK — DIGITAL OUTPUT X-3

565 RED — DIGITAL OUTPUT Y-3

DIGITAL INPUT - LOW

DIGITAL INPUT - MEDIUM

BACK SIDE OF SWITCH GROUP

JAKE BRAKE™ ON LO MED HI OFF

SWITCH GROUP JACOB'S P/N 017328 OR EQUIVALENT

953

INTERNAL ENGINE BRAKE SERIES 60

COMMUNICATIONS HARNESS FOR DDEC III/IV

CAVITY	WIRE NO.	COLOR	FUNCTION
F	925	DK BLU	CAN_H / J1939 (+) CONTROL DATA LINK
E	926	DK BLU/WHT	CAN_L / J1939 (–) CONTROL DATA LINK
D	927	WHT/BLU	CAN_H / J1939 SHIELD
C	439	PNK	IGNITION
B	801	TAN	J1922 (–) CONTROL DATA LINK
A	800	TAN/WHT	J1922 (+) CONTROL DATA LINK

CONNECTS DIRECTLY INTO ECM'S COMMUNICATION CONNECTOR

CONNECTOR
P/N 12066317
COLOR BLACK
TERMINAL
P/N 12103881
PLUG
P/N 12034413

DETROIT DIESEL QS CERTIFIED ORGANIZATION 9000 CORPORATION