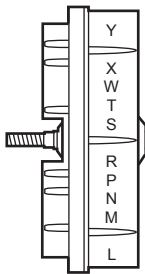
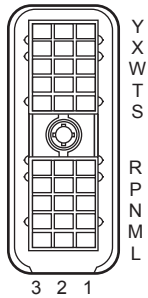
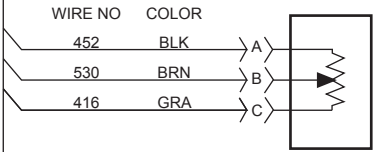


LABEL	WIRE NO	CAVITY	COLOR
TRS (-)	109	T-1	PPL
TRS (+)	110	T-2	DK GRN
SRS (+)	111	S-2	LT BLU
SRS (-)	112	S-1	WHT
OIL TEMPERATURE	120	R-2	TAN
AIR TEMPERATURE	132	N-2	WHT
COOLANT TEMPERATURE	133	P-3	YEL
SENSOR SUPPLY (5VDC)	416	W-1	GRA
TURBO BOOST	432	P-1	LT GRN
SENSOR RETURN (ENGINE)	452	Y-2	BLACK
FUEL TEMPERATURE	472	R-3	ORN
OIL PRESSURE	530	P-2	BRN
ENGINE BRAKE MED	561	S-3	RED
ENGINE BRAKE LO	562	T-3	ORN
DIGITAL OUTPUT W-3	563	W-3	YEL
DIGITAL OUTPUT X-3	564	X-3	TAN/BLK
DIGITAL OUTPUT Y-3	565	Y-3	RED
TIMED INPUT	573	X-1	BRN
AIR FILTER RESTRICTION*	904	L-1	PPL/WHT
FUEL RESTRICTION/FUEL PRESSURE*	905	M-1	YEL
ADD COOLANT LEVEL*	906	N-1	ORN
ANALOG INPUT #6	907	R-1	DK GRN
OI ALARM*	909	Y-1	LT GRN
OI STARTER*	910	W-2	ORN
PWM OUT #4	911	X-2	PNK
OI THERMOSTAT*	958	M-2	DK BLU
OIL LEVEL*	976	L-2	DK GRN

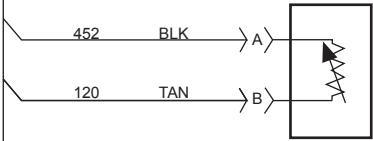


30 WAY CONNECTOR
DDC P/N: 12034400
TERMINAL
DDC P/N: 12103881

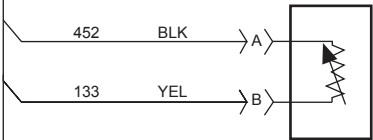
OIL AND COOLANT SENSORS



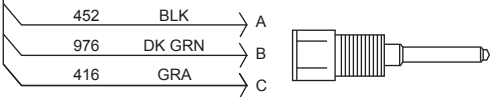
OIL PRESSURE
SENSOR



OIL TEMPERATURE
SENSOR

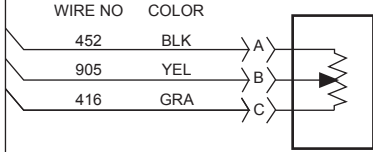


COOLANT TEMP
SENSOR

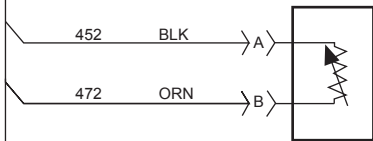


OIL LEVEL SENSOR *

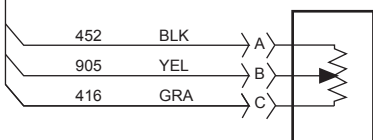
FUEL SENSORS



FUEL PRESSURE
SENSOR *

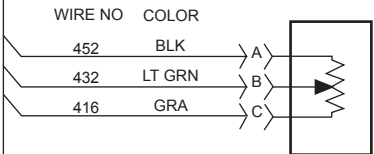


FUEL TEMPERATURE
SENSOR

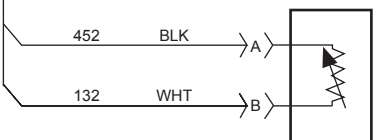


FUEL RESTRICTION
SENSOR *

AIR SENSORS

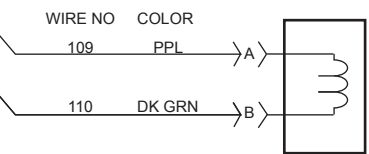


TURBO BOOST
SENSOR

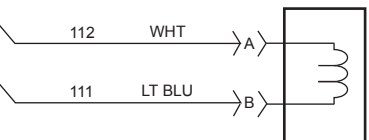


AIR TEMPERATURE
SENSOR

CRANK POSITION SENSORS



TIMING REFERENCE
SENSOR

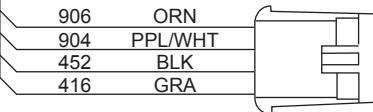


SYNCHRONOUS REFERENCE
SENSOR

WIRE NO. COLOR

909	LT GRN/YEL	OI ALARM*
910	ORN	OI STARTER*
958	DK BLU	OI THERMOSTAT*
911	PNK	PWM OUT #4
561	RED	ENGINE BRAKE MED
562	ORN	ENGINE BRAKE LO
573	BRN	TIMED INPUT
565	RED	DIGITAL OUTPUTS
564	TAN/BLK	DIGITAL OUTPUTS
563	YEL	DIGITAL OUTPUTS

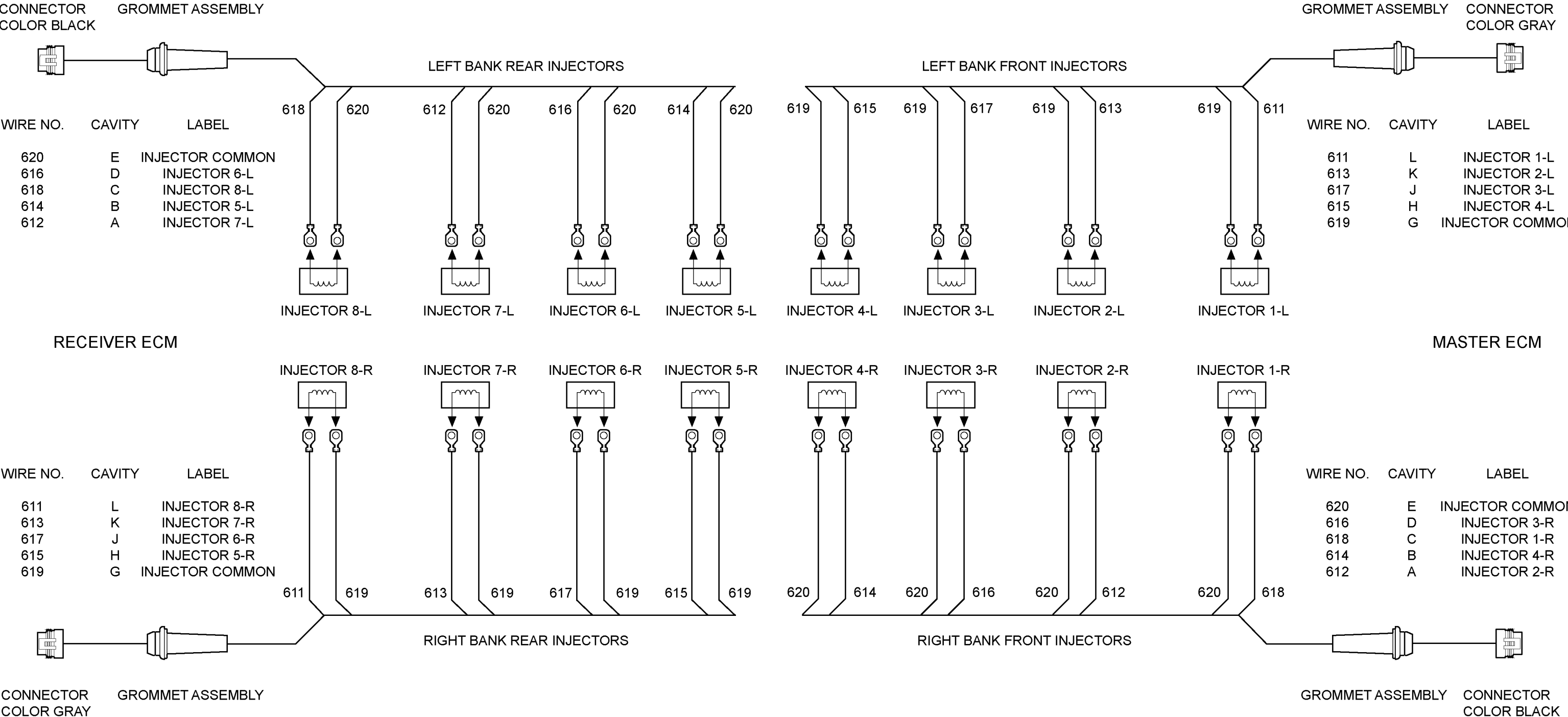
TO VEHICLE INTERFACE
HARNESS CONNECTOR
DDC P/N: 12110293
TERMINAL
DDC P/N: 12048074

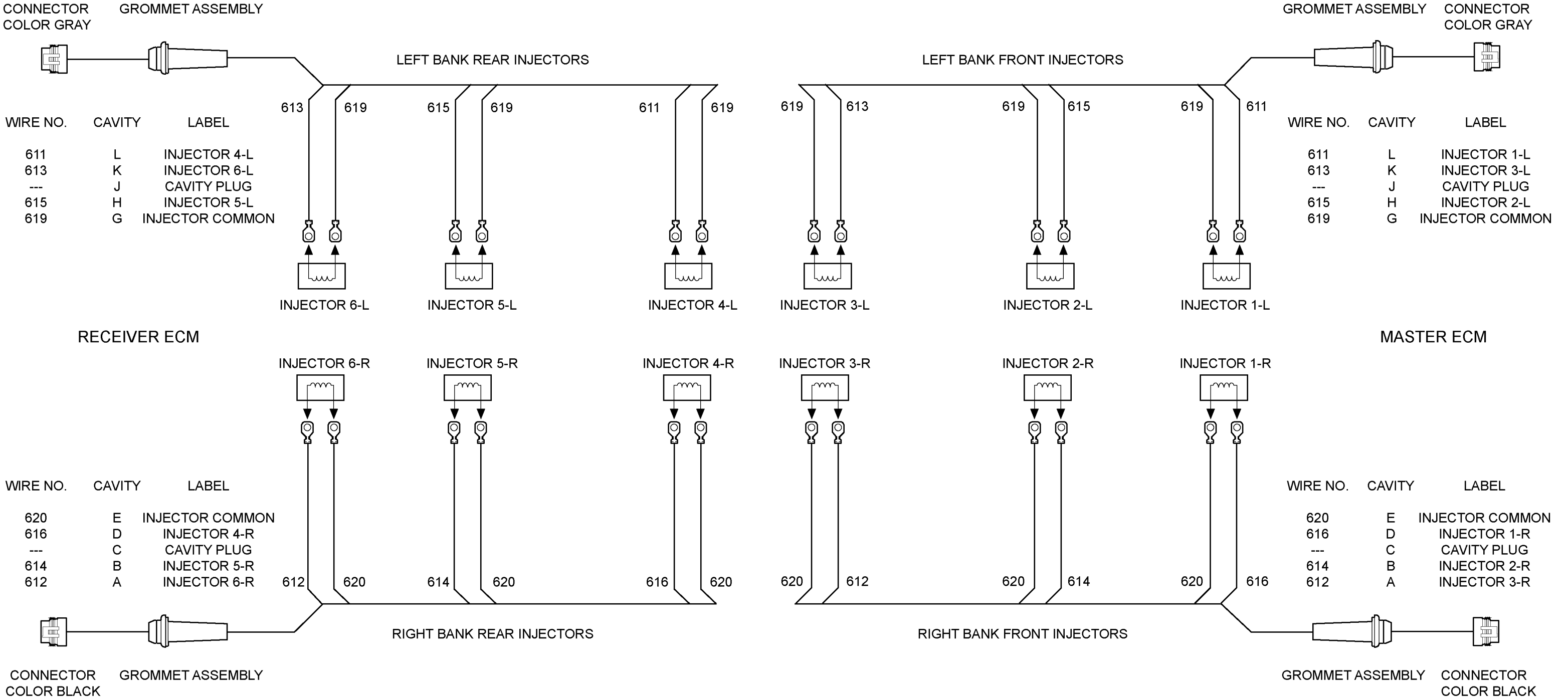


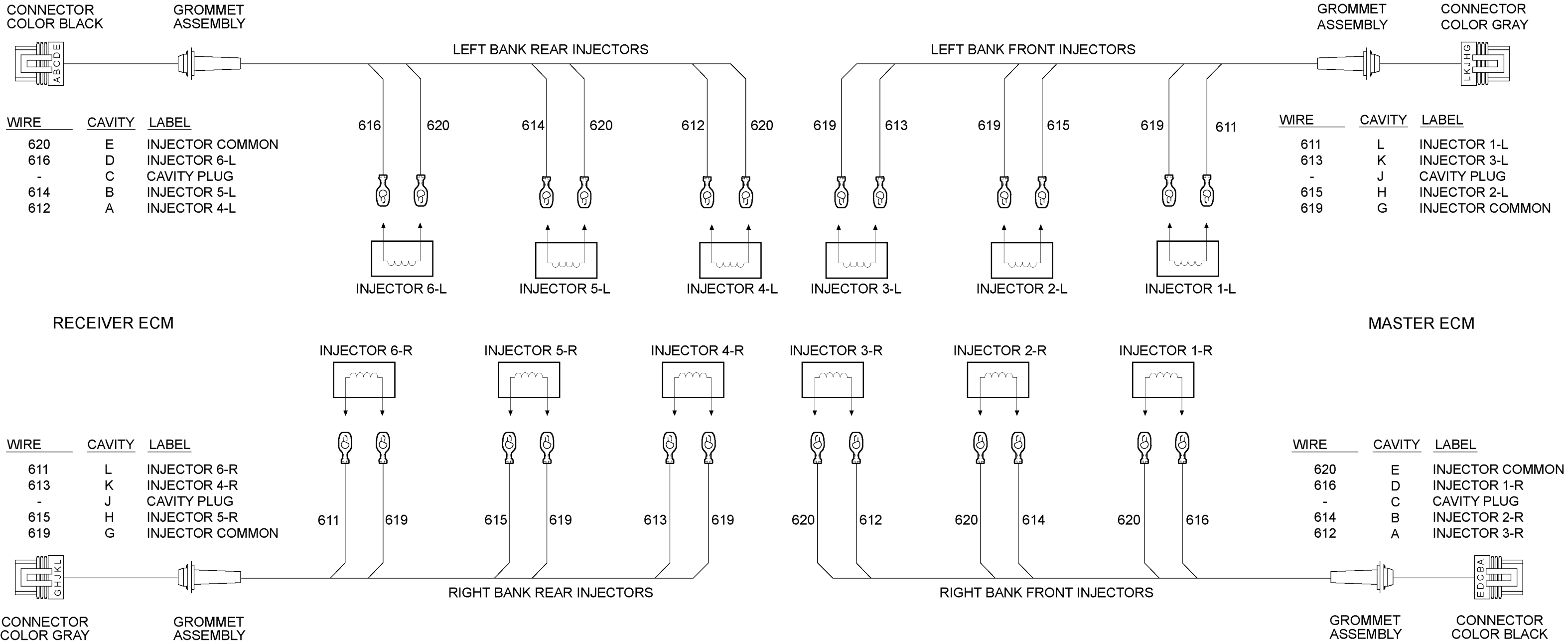
MAINTENANCE
ALERT SYSTEM
PIGTAIL *

CONNECTOR
DDC P/N: 12047931

SERIES 60
ENGINE SENSOR HARNESS
* Available in Some Applications







INJECTOR HARNESS SCHEMATIC
SERIES 71-12V / SERIES 149-12V

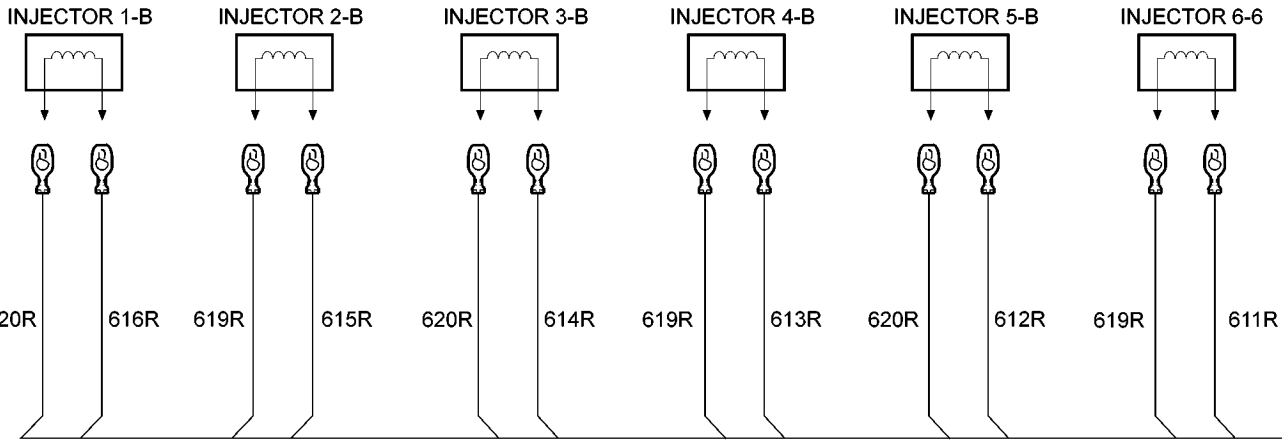
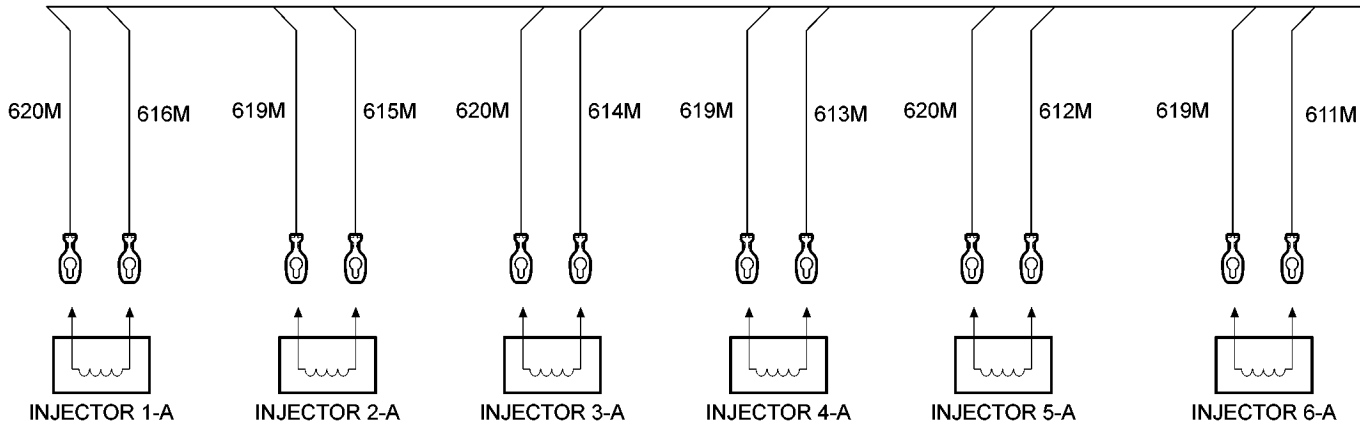
CONNECTOR COLOR BLACK

WIRE	CAVITY	DESCRIPTION
612M	A	INJECTOR 5-A
614M	B	INJECTOR 3-A
-	C	PLUG
616M	D	INJECTOR 1-A
620M	E	INJECTOR COMMON

MASTER ECM

CONNECTOR COLOR GREY

WIRE	CAVITY	DESCRIPTION
619M	G	INJECTOR COMMON
615M	H	INJECTOR 2-A
-	J	PLUG
613M	K	INJECTOR 4-A
611M	L	INJECTOR 6-A



CONNECTOR COLOR GREY

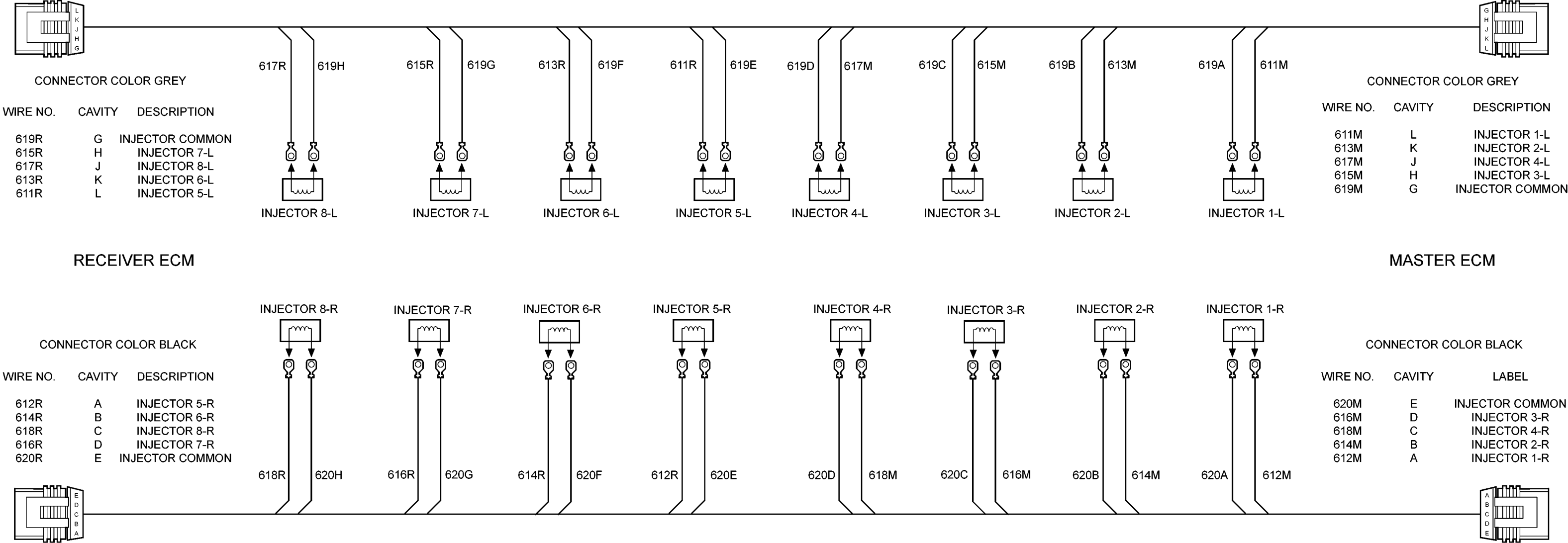
WIRE	CAVITY	DESCRIPTION
619R	G	INJECTOR COMMON
615R	H	INJECTOR 2-B
-	J	PLUG
613R	K	INJECTOR 4-B
611R	L	INJECTOR 6-B

RECEIVER ECM

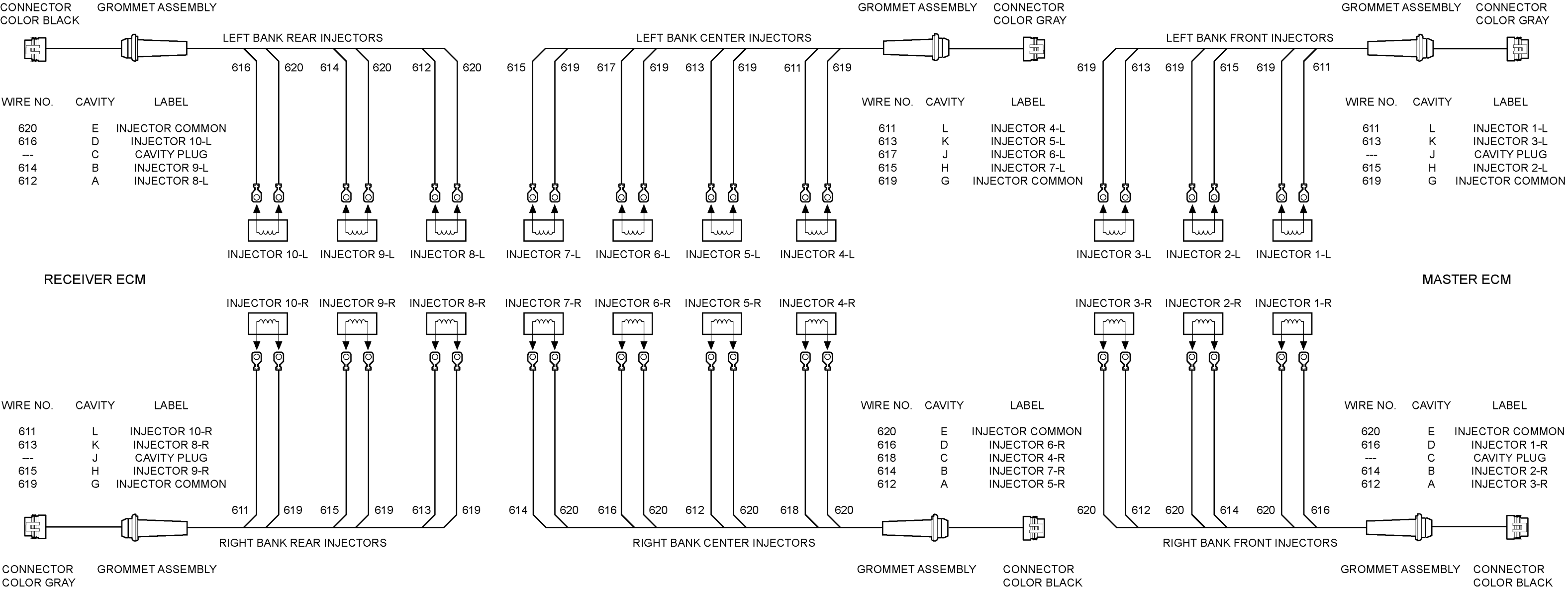
CONNECTOR COLOR BLACK

WIRE	CAVITY	DESCRIPTION
612R	A	INJECTOR 5-B
614R	B	INJECTOR 3-B
-	C	PLUG
616R	D	INJECTOR 1-B
620R	E	INJECTOR COMMON

INJECTOR HARNESS SCHEMATIC
SERIES 4000-12V



INJECTOR HARNESS SCHEMATIC SERIES 4000-16V



RECEIVER ECM

WIRE NO.

CAVITY

LABEL

611

L

INJECTOR 10-R

613

K

INJECTOR 8-R

J

CAVITY PLUG

615

H

INJECTOR 9-R

619

G

INJECTOR COMMON

RIGHT BANK REAR INJECTORS

611

619

615

619

613

619

INJECTOR 10-R

INJECTOR 9-R

INJECTOR 8-R

GROMMET ASSEMBLY

CONNECTOR
COLOR BLACK

WIRE NO.

CAVITY

LABEL

620

E

INJECTOR COMMON

616

D

INJECTOR 6-R

618

C

INJECTOR 4-R

614

B

INJECTOR 7-R

612

A

INJECTOR 5-R

RIGHT BANK CENTER INJECTORS

614

620

616

620

612

620

618

620

INJECTOR 7-R

INJECTOR 6-R

INJECTOR 5-R

INJECTOR 4-R

GROMMET ASSEMBLY

CONNECTOR
COLOR BLACK

WIRE NO.

CAVITY

LABEL

620

E

INJECTOR COMMON

616

D

INJECTOR 1-R

C

CAVITY PLUG

614

B

INJECTOR 2-R

612

A

INJECTOR 3-R

RIGHT BANK FRONT INJECTORS

620

612

620

614

620

616

INJECTOR 3-R

INJECTOR 2-R

INJECTOR 1-R

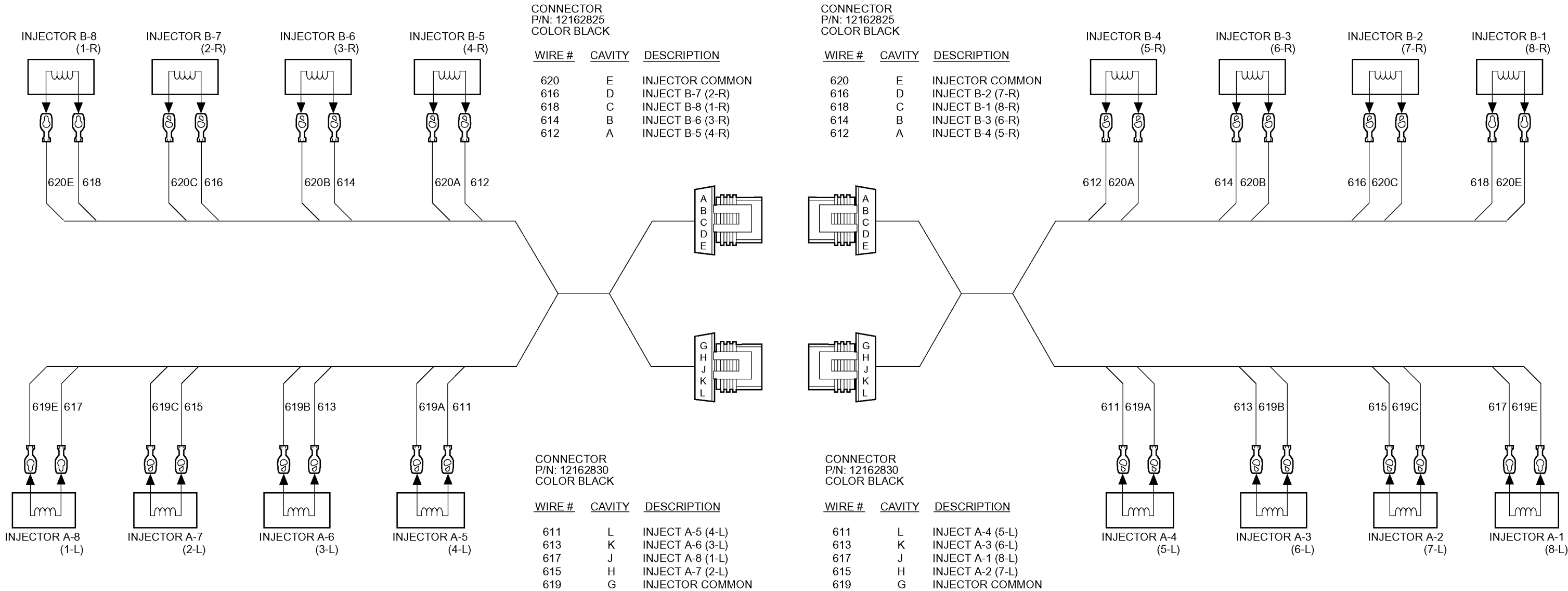
MASTER ECM

INJECTOR HARNESS SCHEMATIC
SERIES 149-20V



MASTER ECM

RECEIVER ECM



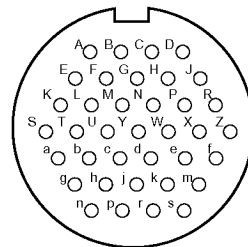
INJECTOR HARNESS
SCHEMATIC SERIES 2000 - 16V

GROUP NO. REF:
06N04

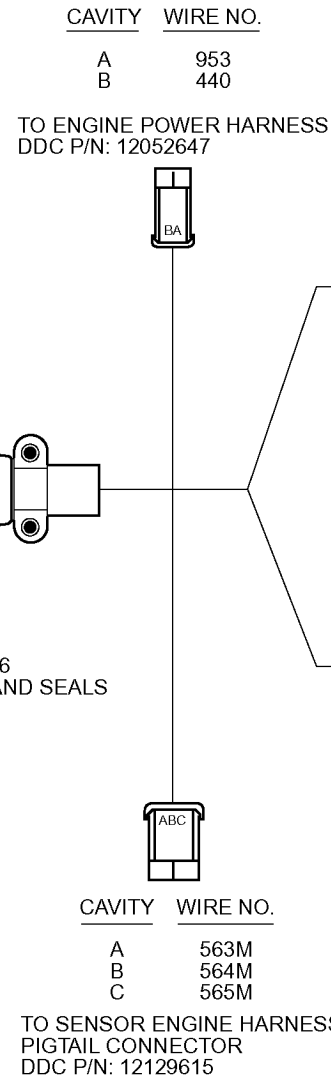
DETROIT DIESEL CORPORATION
SK-11605



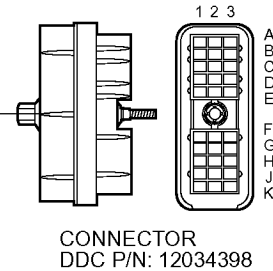
LABEL	WIRE NO.	CAVITY	COLOR
IGNITION	439	A	PNK
DIGITAL INPUT K-2	583	B	LT BLU/BLK
DIGITAL INPUT K-3	979	C	WHT
VEHICLE SPEED (-)	557	D	LT BLU/ORN
TACHOMETER DRIVE	505M	E	GRA
DIGITAL INPUT J-2	531M	F	ORN
BATTERY GROUND	953	G	BLK
J1587 DATA LINK (+)	900	H	DK GRN/YEL
POWER HARNESS JUMPER	440	J	ORN
PWM #1 OUTPUT	908M	K	WHT
DIGITAL INPUT J-1	541M	L	YEL/RED
VEHICLE SPEED (+)	556	M	LT BLU/BLK
LIMITING SPEED GOVERNOR	417	N	DK BLU
J1587 DATA LINK (-)	901	P	DK GRN
DIGITAL OUTPUT A-1	988M	R	GRA
PLUG		S	
DIGITAL INPUT H-2	524M	T	GRA
SENSOR SUPPLY (5V)	916M	U	RED/BLK
VARIABLE SPEED GOVERNOR	510	V	BRN
SENSOR RETURN	952M	W	BLK
PLUG		X	
DIGITAL OUTPUT A-2	555M	Z	TAN
DIGITAL INPUT E-1	451R	a	LT GRN
DIGITAL INPUT H-1	523M	b	GRA/RED
COOLANT LEVEL	115M	c	ORN
ANALOG INPUT	749M	d	YEL
DIGITAL INPUT F-1	542M	e	YEL
ESH PIGTAIL-DIGITAL OUTPUT-W3	563M	f	TAN
DIGITAL INPUT E-1	451M	g	LT GRN
DIGITAL INPUT G-3	545M	h	LT BLU/YEL
DIAGNOSTIC REQUEST/SEO	528	j	BRN/RED
DIGITAL INPUT F-2	544	k	BRN/WHT
ESH PIGTAIL-DIGITAL OUTPUT-X3	564M	m	YEL
STOP ENGINE LIGHT	509	n	GRA
CHECK ENGINE LIGHT	419	p	PPL/WHT
DIGITAL OUTPUT F-3	499M	r	LT GRN
ESH PIGTAIL-DIGITAL OUTPUT-Y3	565M	s	PNK



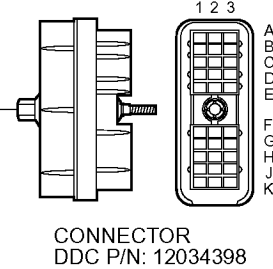
CONNECTOR
CANNON P/N: CA3106E28-21PBF80A176
CONNECTOR INCLUDES TERMINALS AND SEALS



MASTER ECM



RECEIVER ECM

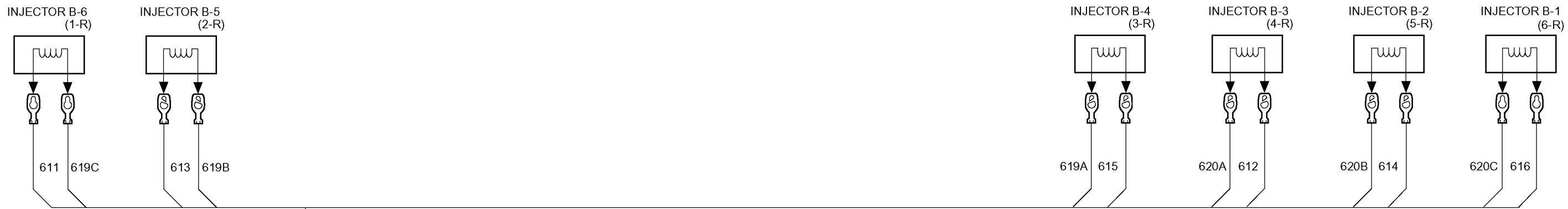


CAVITY	WIRE NO.
A1	988M
A2	555M
A3	916M
B1	419M
B2	509M
B3	439M
C1	901M
C2	900M
C3	952M
D1	510M
D2	417M
D3	749M
E1	451M
E2	556M
E3	557M
F1	542M
F2	544M
F3	499M
G1	528M
G2	PLUG
G3	545M
H1	523M
H2	524M
H3	115M
J1	541M
J2	531M
J3	908M
K1	505M
K2	583M
K3	979M

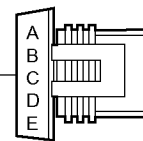
CAVITY	WIRE NO.
B1	419R
B2	509R
B3	439R
C1	901R
C2	900R
D1	510R
D2	417R
E1	451R
E2	556R
E3	557R
F2	544R
G1	528R
K2	583R
K3	979R

GROUP NO. REF:
12H00-0547
12H00-0549

SERIES 2000
OPTIONAL ENGINE
INTERFACE HARNESS SK-11598
MULTI-ECM 38618

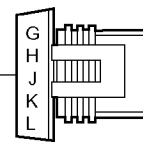


CONNECTOR
P/N: 12162825
COLOR BLACK



WIRE #	CAVITY	DESCRIPTION
612	A	INJECTOR B-3 (4-R)
614	B	INJECTOR B-2 (5-R)
PLUG	C	PLUG
616	D	INJECTOR B-1 (6-R)
620	E	INJECTOR COMMON

CONNECTOR
P/N: 12162830
COLOR GRAY

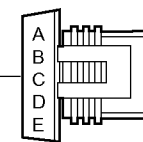


WIRE #	CAVITY	DESCRIPTION
619	G	INJECTOR COMMON
615	H	INJECTOR B-4 (3-R)
PLUG	J	PLUG
613	K	INJECTOR B-5 (2-R)
611	L	INJECTOR B-6 (1-R)

RECEIVER ECM

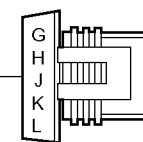
MASTER ECM

CONNECTOR
P/N: 12162825
COLOR BLACK

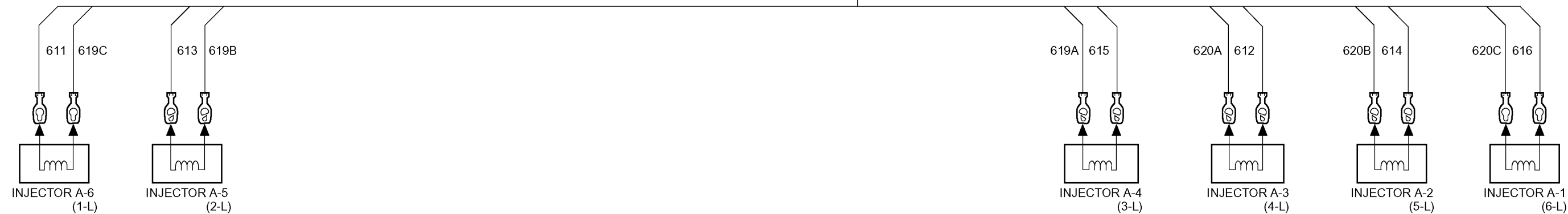


WIRE #	CAVITY	DESCRIPTION
612	A	INJECTOR A-3 (4-L)
614	B	INJECTOR A-2 (5-L)
PLUG	C	PLUG
616	D	INJECTOR A-1 (6-L)
620	E	INJECTOR COMMON

CONNECTOR
P/N: 12162830
COLOR GRAY

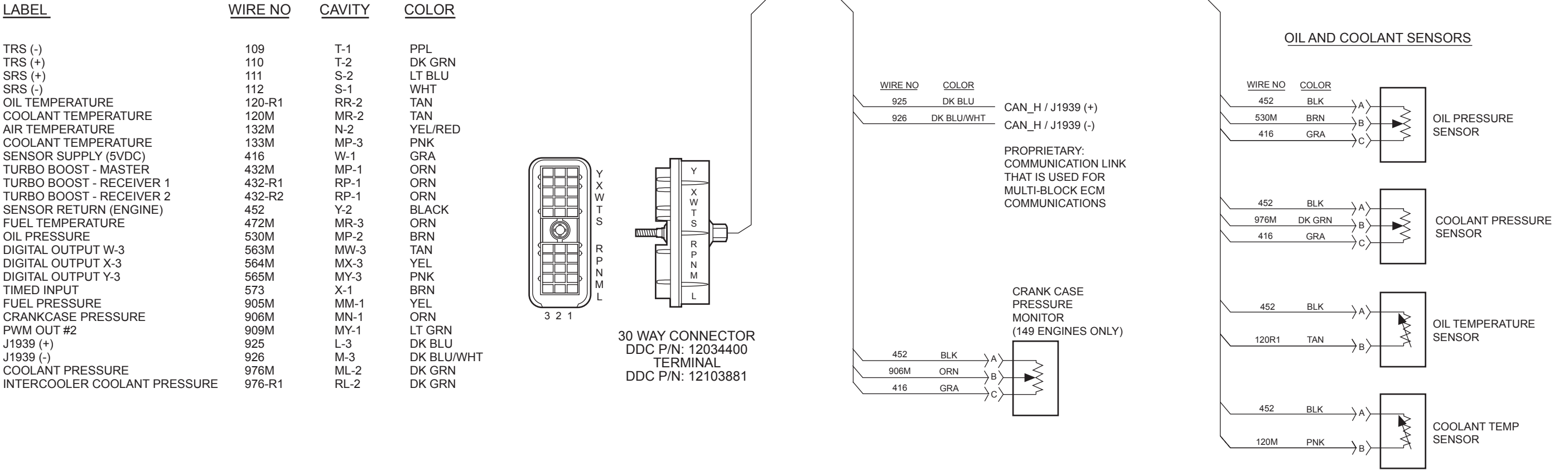


WIRE #	CAVITY	DESCRIPTION
619	G	INJECTOR COMMON
615	H	INJECTOR A-4 (3-L)
PLUG	J	PLUG
613	K	INJECTOR A-5 (2-L)
611	L	INJECTOR A-6 (1-L)

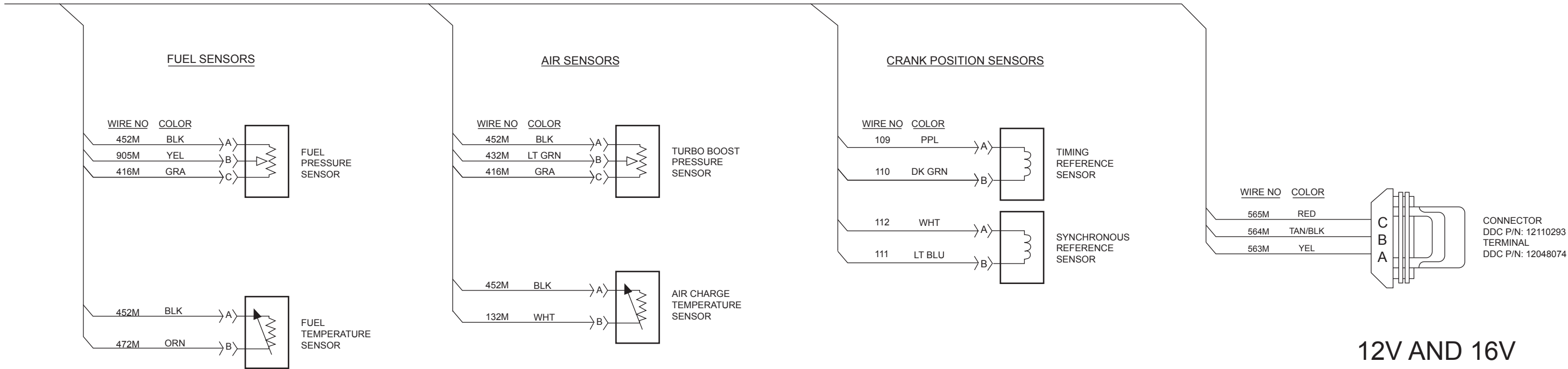
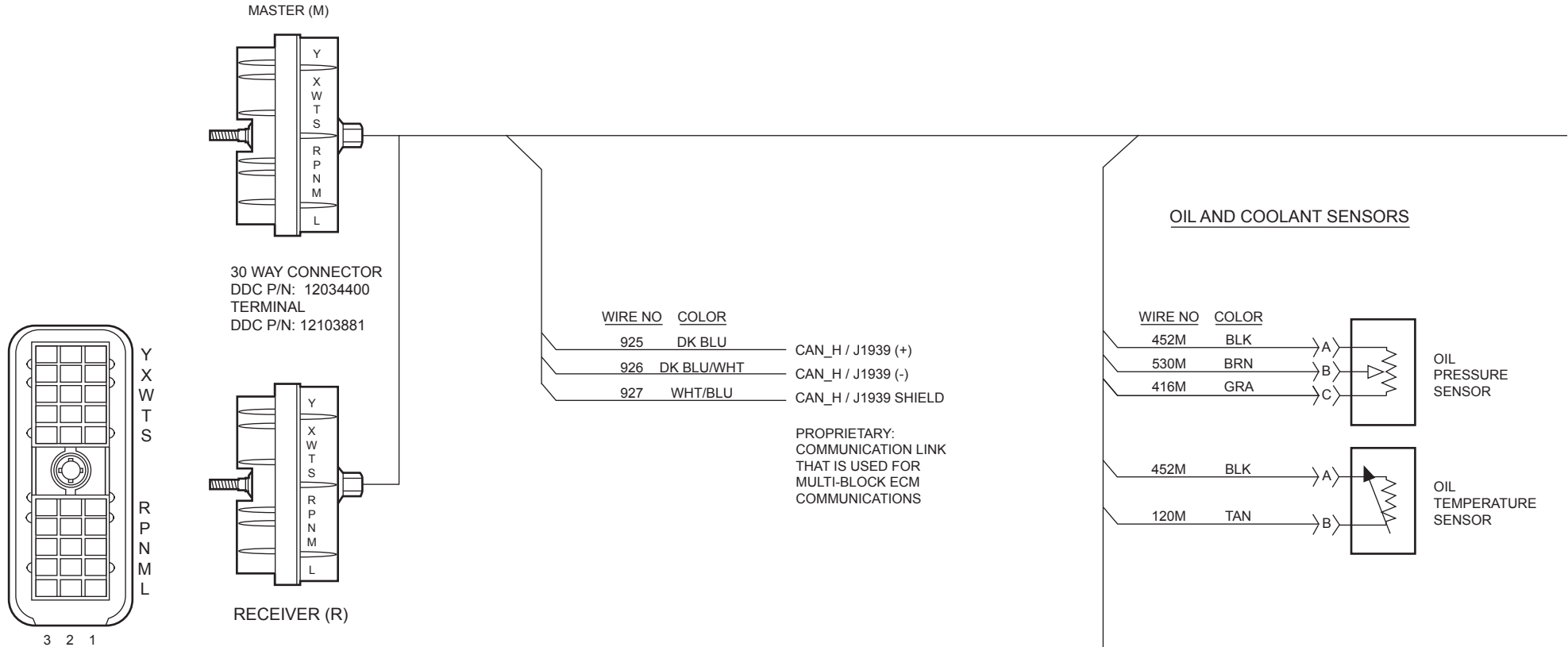


INJECTOR HARNESS
SCHEMATIC SERIES 2000 - 12V

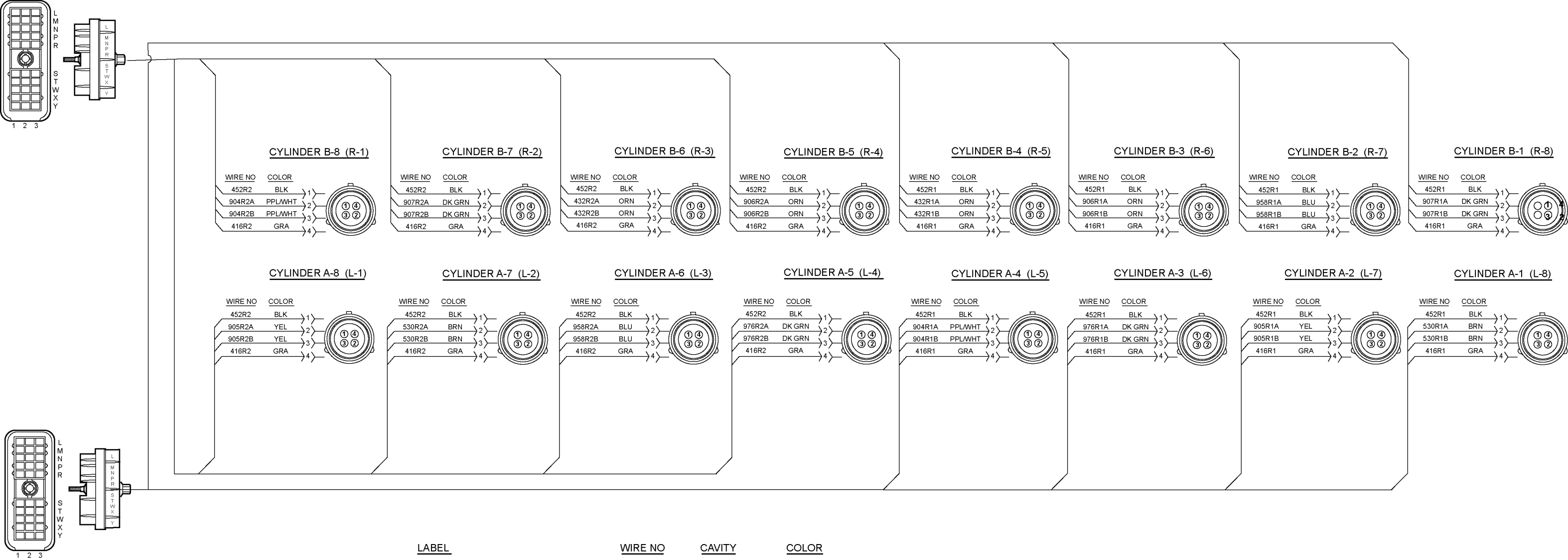
GROUP NO. REF: 06N04	DETROIT DIESEL CORPORATION SK-11604 38696
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LABEL	WIRE NO	CAVITY	COLOR
TRS (-)	109	T-1	PPL
TRS (+)	110	T-2	DK GRN
SRS (+)	111	S-2	LT BLU
SRS (-)	112	S-1	WHT
OIL TEMPERATURE	120M	MR-2	TAN
AIR CHARGE TEMPERATURE	132M	MN-2	WHT
COOLANT TEMP	133M	MP-3	YEL
SENSOR SUPPLY (5VDC)	416M	MW-1	GRA
TURBO BOOST	432M	MP-1	LT GRN
SENSOR RETURN (ENGINE)	452M	MY-2	BLACK
FUEL TEMP	472M	MR-3	ORN
OIL PRESSURE	530M	MP-2	BRN
DIGITAL OUPUT W-3	563M	MW-3	YEL
DIGITAL OUTPUT X-3	564M	MX-3	TAN/BLK
DIGITAL OUTPUT Y-3	565M	MY-3	RED
FUEL PRESSURE	905M	MM-1	YEL
J1939 (+)	925	L-3	DK BLU
J1939 (-)	926	M-3	DK BLU/WHT
J1939 SHIELD	927	N-3	WHT/BLU
COOLANT PRESSURE	976M	ML-2	DK GRN



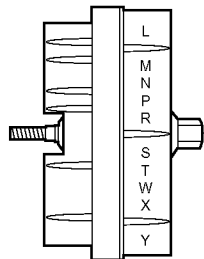
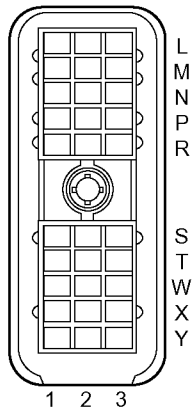
12V AND 16V SERIES 2000 ENGINE HARNESS



LABEL	WIRE NO	CAVITY	COLOR
RECEIVER 2 ECM			
SENSOR SUPPLY (5VDC) ENGINE	416R2	R2 W-1	GRA
SENSOR RETURN ENGINE	452R2	R2 Y-2	BLK
EXHAUST TEMPERATURE A-5	976R2	R2 L-2	DK GRN
EXHAUST TEMPERATURE A-6	958R2	R2 M-2	BLU
EXHAUST TEMPERATURE A-7	530R2	R2 P-2	BRN
EXHAUST TEMPERATURE A-8	905R2	R2 M-1	YEL
EXHAUST TEMPERATURE B-5	906R2	R2 N-1	ORN
EXHAUST TEMPERATURE B-6	432R2	R2 P-1	ORN
EXHAUST TEMPERATURE B-7	907R2	R2 R-1	DK GRN
EXHAUST TEMPERATURE B-8	904R2	R2 L-1	PPL/WHT

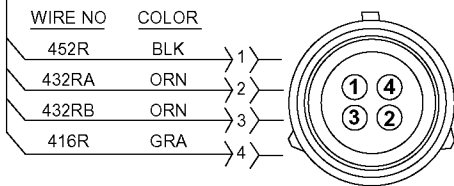
RECEIVER 1 ECM			
SENSOR SUPPLY (5VDC) ENGINE	416R1	R1 W-1	GRA
SENSOR RETURN ENGINE	452R1	R1 Y-2	BLK
EXHAUST TEMPERATURE A-1	530R1	R1 P-2	BRN
EXHAUST TEMPERATURE A-2	905R1	R1 M-1	YEL
EXHAUST TEMPERATURE A-3	976R1	R1 L-2	DK GRN
EXHUAST TEMPERATURE A-4	904R1	R1 L-1	PPL/WHT
EXHAUST TEMPERATURE B-1	907R1	R1 R-1	DK GRN
EXHAUST TEMPERATURE B-2	958R1	R1 M-2	BLU
EXHAUST TEMPERATURE B-3	906R1	R1 N-1	ORN
EXHAUST TEMPERATURE B-4	432R1	R1 P-1	ORN

16V SERIES 4000 MARINE
EXHAUST TEMPERATURE
SENSORS

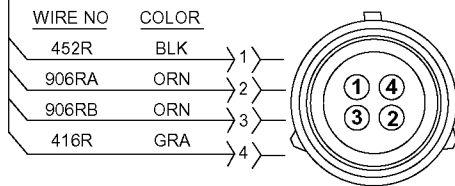


LABEL	WIRE NO	CAVITY	COLOR
RECEIVER ECM			
SENSOR SUPPLY (5VDC) ENGINE	416R2	W-1	GRA
SENSOR RETURN ENGINE	452R2	Y-2	BLK
EXHAUST TEMPERATURE A-1	530R2	P-2	BRN
EXHAUST TEMPERATURE A-2	905R2	M-1	YEL
EXHAUST TEMPERATURE A-3	976R2	L-2	DK GRN
EXHAUST TEMPERATURE A-4	904R2	L-1	PPL/WHT
EXHAUST TEMPERATURE B-1	907R2	R-1	DK GRN
EXHAUST TEMPERATURE B-2	958R2	M-2	BLU
EXHAUST TEMPERATURE B-3	906R2	N-1	ORN
EXHAUST TEMPERATURE B-4	432R2	P-1	ORN

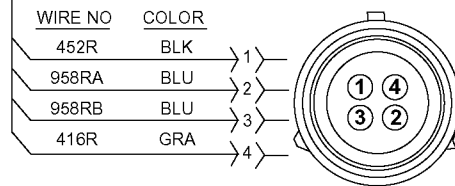
CYLINDER B-4 (R-1)



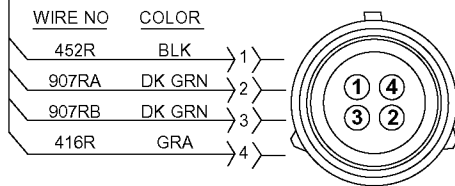
CYLINDER B-3 (R-2)



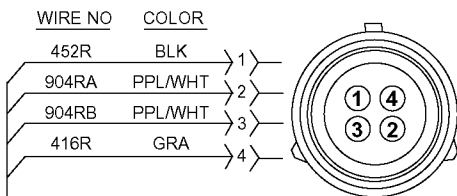
CYLINDER B-2 (R-3)



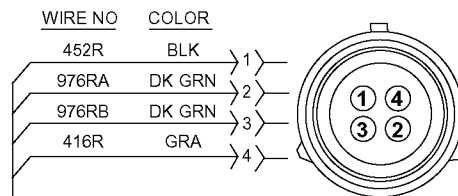
CYLINDER B-1 (R-4)



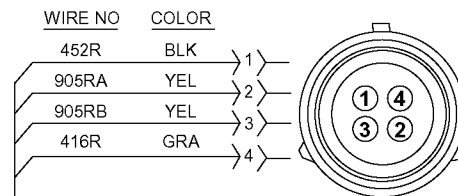
CYLINDER A-4 (L-1)



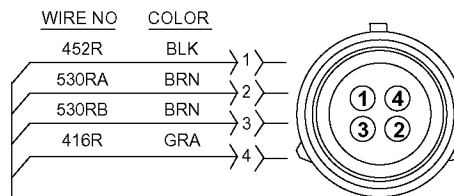
CYLINDER A-3 (L-2)



CYLINDER A-2 (L-3)



CYLINDER A-1 (L-4)



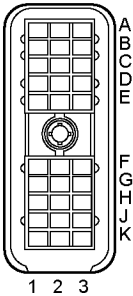
8V SERIES 4000 MARINE EXHAUST TEMPERATURE SENSORS

DDEC IV INTERFACE HARNESS CONNECTOR SERIES 2000

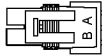
LABEL	WIRE NO	CAVITY	COLOR
COOLANT LEVEL	115	H-3	ORN
LIMITING SPEED GOVERNOR	417	D-2	DK BLUE
CHECK ENGINE LIGHT	419	B-1	PPL/WHT
IGNITION	439	B-3	PNK
DIGITAL INPUT E-1	451	E-1	LT GRN
DIGITAL OUTPUT F-3	499	F-3	LT BLU
TACHOMETER DRIVE	505	K-1	GRA
STOP ENGINE LIGHT	509	B-2	PPL
VARIABLE SPEED GOVERNOR	510	D-1	BRN
DIGITAL INPUT H-1	523	H-1	GRA/RED
DIGITAL INPUT H-2	524	H-2	GRA
DIAGNOSTIC REQUEST/SEO	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 BLU/BLK
ANALOG INPUT	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

LABEL	WIRE NO	CAVITY	COLOR
POWER HARNESS-JUMPER	440	A	RED
BATTERY GROUND	953	B	BLK/WHT



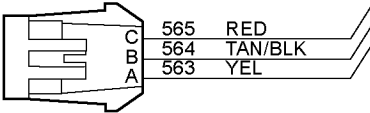
30 WAY CONNECTOR
DDC P/N: 12034398
TERMINAL
DDC P/N: 12103881
PLUG
DDC P/N: 12034413



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

NOTE:
FUSE MUST BE PLACED BETWEEN
MATING CONNECTOR AND BATTERY

TO ENGINE SENSOR
HARNESS PIGTAIL



CONNECTOR DDC P/N: 12129615
TERMINAL DDC P/N: 12045773
CABLE SEAL DDC P/N: 12052924
SECONDARY LOCK DDC P/N: 12052845

WIRE NO.	COLOR
953	BLK/WHT

IGNITION

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

440 RED

SWITCHED
IGNITION

WIRE NO.	COLOR
439	PNK

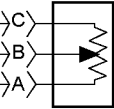
OFF
ON
+ 12/24 VDC

MUST PROVIDE IGNITION POWER
IN RUN AND CRANK MODES.

DO NOT SOURCE ANY
ACCESSORY FROM CIRCUIT 439

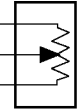
GOVERNOR

WIRE NO	COLOR
916	RED/BLK
417	DK BLUE
952	BLK



LIMITING SPEED GOVERNOR
(THROTTLE POSITION SENSOR)

916	RED/BLK	C
510	BRN	B
952	BLK	A



VARIABLE SPEED GOVERNOR
(POWER TAKE-OFF CONTROL)

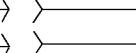
FREQUENCY INPUT VARIABLE SPEED GOVERNOR

556	LT BLU/BLK
952	BLK



SQUARE WAVE
FREQUENCY INPUT

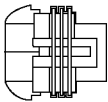
544	BRN/WHT
953	BLK/WHT



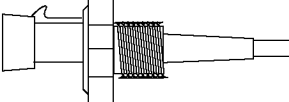
EXTERNAL FREQUENCY
SYNC ENABLE

COOLANT LEVEL SENSOR

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

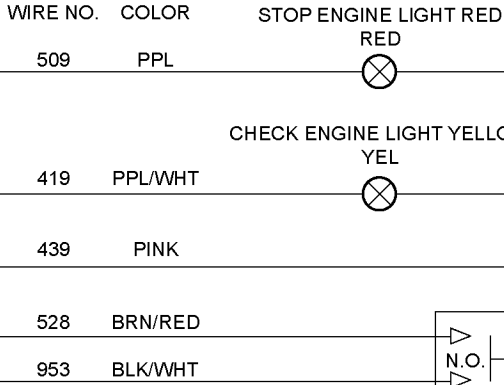


280 SERIES
METRI-PACK
CONNECTOR
DDC P/N: 15300027



COOLANT LEVEL PROBE
3/8 in. NPT
DDC P/N: 23512881
1/4 in. NPT
DDC P/N: 23512880
9/16 in. UNF
DDC P/N: 23522855

INSTRUMENT PANEL



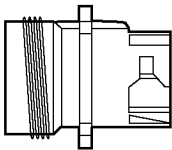
STOP ENGINE
OVERRIDE SWITCH
(ENGINE RUNNING)
DIAGNOSTIC
REQUEST (ENGINE
OFF/IGNITION ON)
(MOMENTARY)

DIAGNOSTIC CONNECTOR

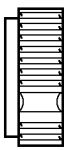
WIRE NO.	CAVITY	COLOR	LABEL
900	A	DK GRN/YEL	DATA LINK (+)
901	B	DK GRN	DATA LINK (-)
439	C	PINK	+ 12/24 VDC
---	D	CAVITY PLUG P/N: 23507136	BATTERY GROUND
953	E	BLK/WHT	
---	F	CAVITY PLUG P/N: 23507136	



TERMINAL
DDC P/N: 23513053



CONNECTOR AND
SEAL ASSEMBLY
DDC P/N: 23513052

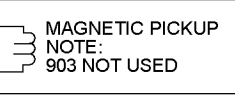


PROTECTIVE CAP
DDC P/N: 23513054

VEHICLE SPEED SENSOR

WIRE NO.	COLOR
----------	-------

556*	LT BLU/BLK
557	LT BLU/ORN



* VEHICLE SPEED SENSOR IS NOT USED WITH THE
FREQUENCY INPUT VSG. IF BOTH VSS AND THE
FREQUENCY INPUT VSG ABILITIES ARE REQUIRED
A DIFFERENT 6N4C DDEC CALIBRATION IS
REQUIRED AND WIRE 556 ON THE FREQUENCY
INPUT VSG IS SUBSTITUTED WITH WIRE 573
(AUXILIARY TIMED INPUT).

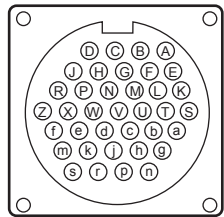
WIRE NO.	COLOR	NAME
451	LT GRN	DIGITAL INPUT E-1
542	YEL	DIGITAL INPUT F-1
545	LT BLU/YEL	DIGITAL INPUT G-3
523	GRA/RED	DIGITAL INPUT H-1
524	GRA	DIGITAL INPUT H-2
541	YEL/RED	DIGITAL INPUT J-1
531	ORN	DIGITAL INPUT J-2
583	LT BLU/BLK	DIGITAL INPUT K-2
979	WHT	DIGITAL INPUT K-3
543	ORN/BLK	DIGITAL INPUT G-2
988	GRA	DIGITAL OUTPUT A-1
555	TAN	DIGITAL OUTPUT A-2
499	LT BLU	DIGITAL OUTPUT F-3
563	YEL	DIGITAL OUTPUT W-3
564	TAN/BLK	DIGITAL OUTPUT X-3
565	RED	DIGITAL OUTPUT Y-3
908	WHT	PWM #1 OUTPUT
505	GRA	TACHOMETER DRIVE
916	RED/BLK	ANALOG INPUT
749	YEL	
952	BLK	

VEHICLE INTERFACE HARNESS
SERIES 2000

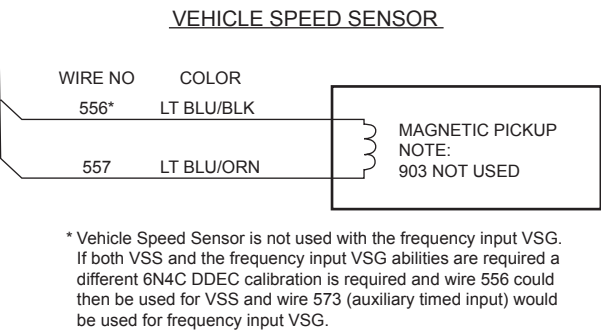
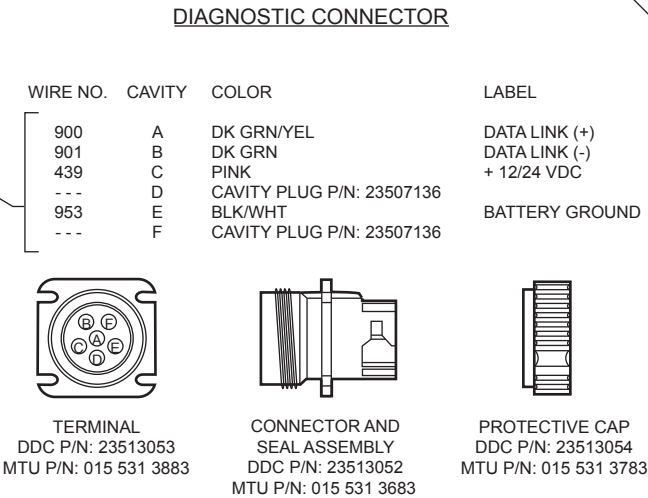
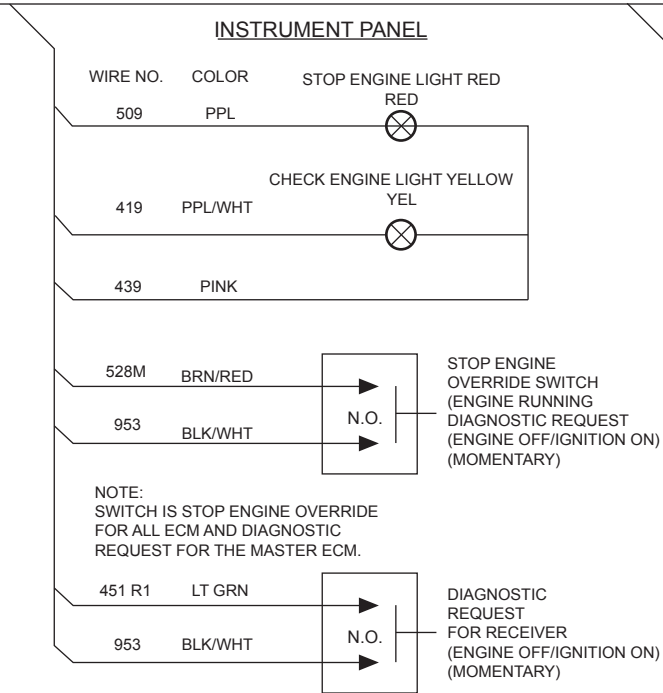
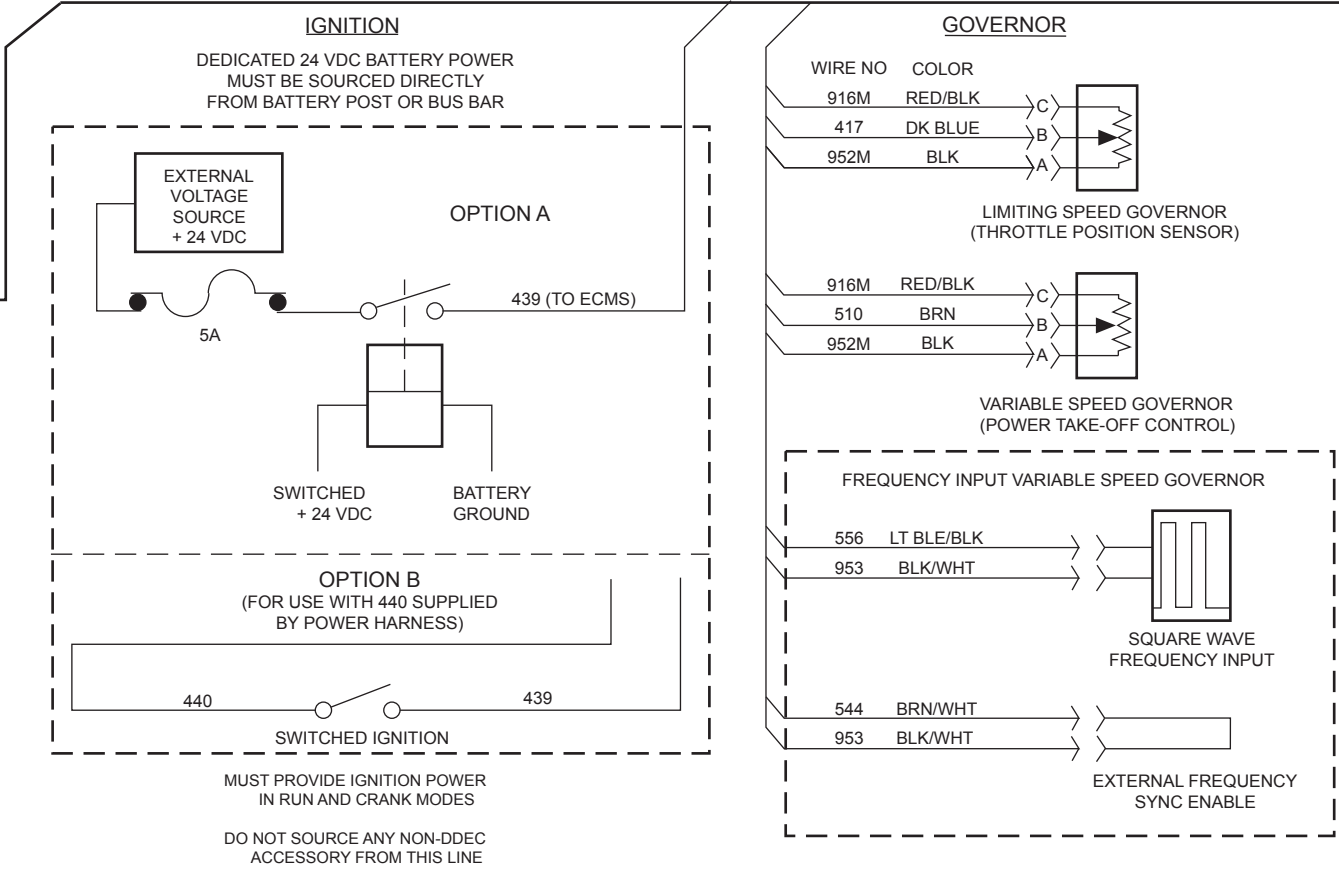
DDEC III/IV INTERFACE HARNESS CONNECTOR
SERIES 4000

LABEL	WIRE NO	CAVITY	COLOR
-------	---------	--------	-------

COOLANT LEVEL	115M	c	ORN
LIMITING SPEED GOVERNOR	417	N	DK BLUE
CHECK ENGINE LIGHT	419	p	PPL/WHT
IGNITION	439	A	PNK
POWER HARNESS - JUMPER	440	J	RED
DIGITAL INPUT E-1	451M	g	LT GRN
DIGITAL INPUT E-1 - R1	451R	a	LT GRN
DIGITAL OUTPUT F-3	499M	r	LT BLU
TACHOMETER DRIVE - MASTER	505M	E	GRA
STOP ENGINE LIGHT	509	n	PPL
VARIABLE SPEED GOVERNOR	510	V	BRN
DIGITAL INPUT H-1	523M	b	GRA/RED
DIGITAL INPUT H-2	524	T	GRA
DIAGNOSTIC REQUEST / SEO-M	528	j	BRN/RED
DIGITAL INPUT J-2	531M	F	ORN
DIGITAL INPUT J-1	541M	L	YEL/RED
DIGITAL INPUT F-1	542M	e	YEL
DIGITAL INPUT G-2	543M	S	ORN/BLK
DIGITAL INPUT F-2	544	k	BRN/WHT
DIGITAL INPUT G-3	545M	h	LT BLUE/YEL
DIGITAL OUTPUT A-2	555M	Z	TAN
VEHICLE SPEED (+)	556	M	LT BLUE/BLK
VEHICLE SPEED (-)	557	D	LT BLUE/ORN
DIGITAL OUTPUT W-3	563M	f	YEL
DIGITAL OUTPUT X-3	564M	m	TAN/BLK
DIGITAL OUTPUT Y-3	565M	s	RED
AUXILIARY TIMED INPUT	573	X	BRN
DIGITAL INPUT K-2	583	B	LT BLUE/BLK
ANALOG INPUT	749M	d	YEL
DATA LINK (+)	900	H	DK GREEN/YEL
DATA LINK (-)	901	P	DK GREEN
PWM #1 OUTPUT	908M	K	WHT
SENSOR SUPPLY (5VDC)	916M	U	RED/BLK
SENSOR RETURN	952M	W	BLK
BATTERY GROUND	953	G	BLK/WHT
DIGITAL INPUT K-3	979	C	WHT
DIGITAL OUTPUT A-1	988M	R	GRA



CONNECTOR KIT INCLUDES
TERMINALS AND SEALS
DDC P/N: 23515462
CAVITY PLUG (NOT INCLUDED IN KIT)
CANNON P/N: 2351650
MTU CONNECTOR P/N: 075 531 4183
MTU CABLE SEAL: P/N 000 531 6282



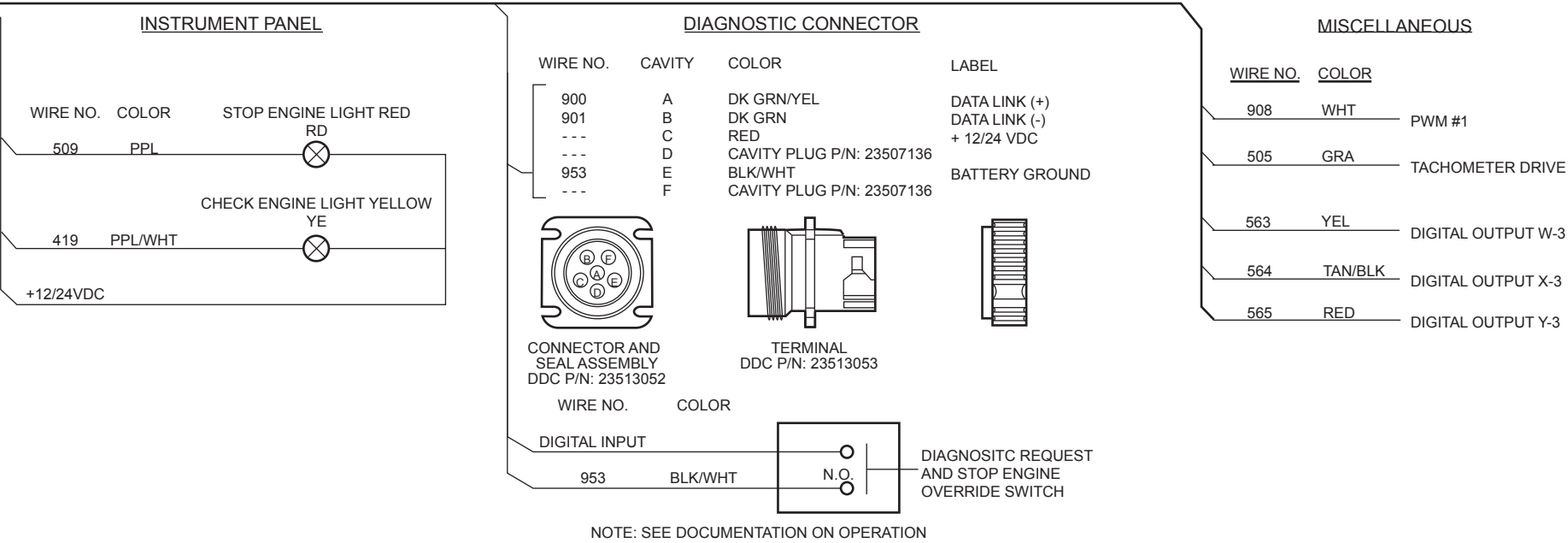
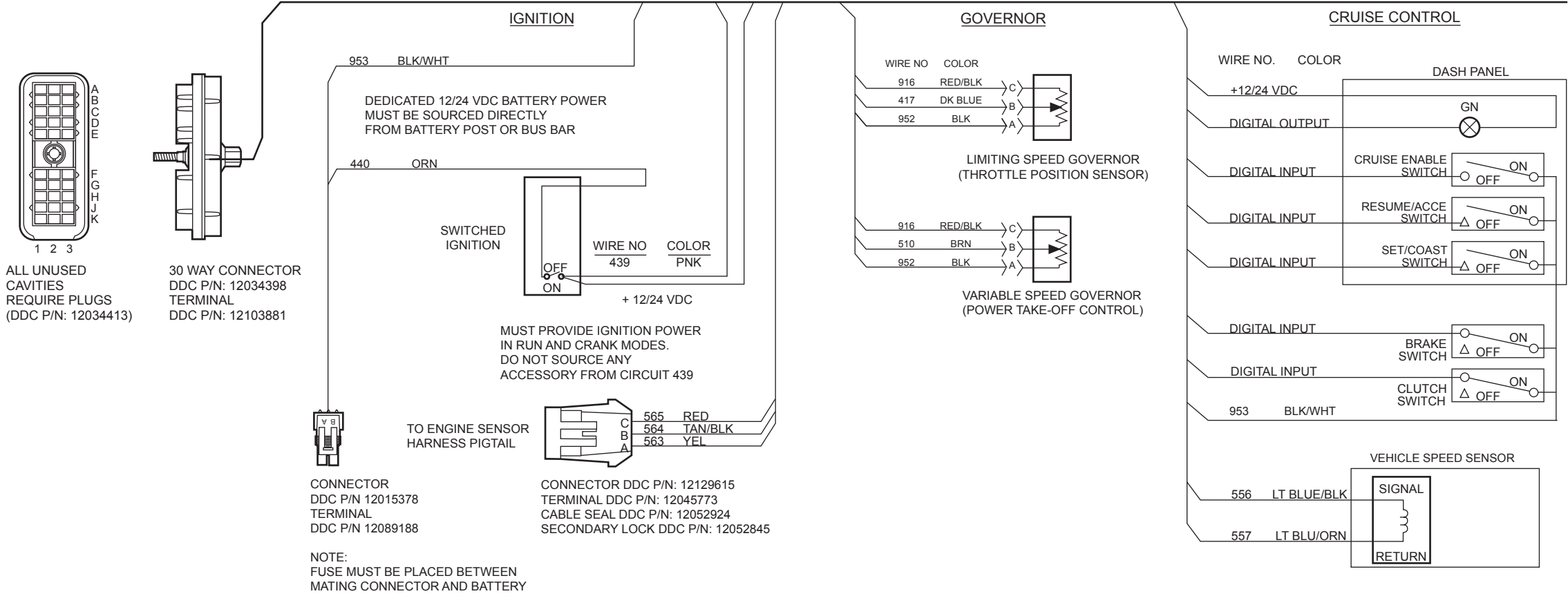
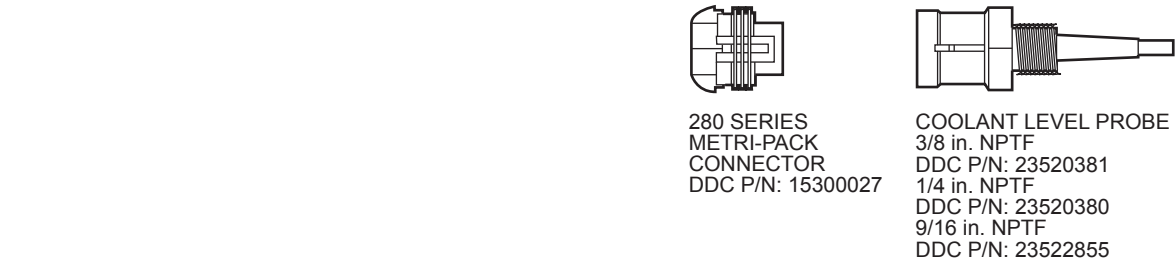
WIRE NO	COLOR	NAME	DEFAULT ASSIGNMENT
451M	LT GRN	DIGITAL INPUT E-1	
542M	YEL	DIGITAL INPUT F-1	ALT. MIN. VSG SPEED (LATCHING SWITCH)
545M	LT BLU/YEL	DIGITAL INPUT G-3	
523M	GRA/RED	DIGITAL INPUT H-1	TORQUE LIMIT ENABLE (25PD GOV. LATCHING)
524M	GRA	DIGITAL INPUT H-2	EXTERNAL STOP ENGINE #1
541M	YEL/RED	DIGITAL INPUT J-1	MANUAL FAN LOCK-UP
531M	ORN	DIGITAL INPUT J-2	PARKING BRAKE (IDLE SHUTDOWN TIMER)
583	LT BLU/BLK	DIGITAL INPUT K-2	RATING SWITCH #1
979	WHT	DIGITAL INPUT K-3	RATING SWITCH #2
988M	GRA	DIGITAL OUTPUT A-1	
555M	TAN	DIGITAL OUTPUT A-2	
499M	LT BLU	DIGITAL OUTPUT F-3	
563M	YEL	DIGITAL OUTPUT W-3	
564M	TAN/BLK	DIGITAL OUTPUT X-3	
565M	RED	DIGITAL OUTPUT Y-3	
908M	WHT	PWM #1 OUTPUT	
505M	GRA	TACHOMETER DRIVE	12 PULSE/REV
916M	RED/BLK		
749M	YEL	ANALOG INPUT	
952M	BLK		
573	BRN	ANALOG INPUT	
953	BLK/WHT		
543M	ORN/BLK	DIGITAL INPUT G-2	

VEHICLE INTERFACE HARNESS SCHEMATIC
SERIES 4000-16V

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



DDEC IV VEHICLE INTERFACE HARNESS

DDEC IV INTERFACE HARNESS CONNECTOR SERIES 2000

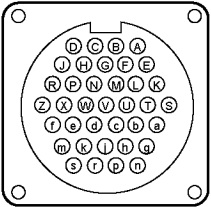
LABEL WIRE NO CAVITY COLOR

COOLANT LEVEL	115M	c	ORN
LIMITING SPEED GOVERNOR	417	N	DK BLUE
CHECK ENGINE LIGHT	419	p	PPL/WHT
IGNITION	439	A	PNK
DIGITAL INPUT E-1	451M	g	LT GRN
DIAGNOSTIC REQUEST-R	451R	a	LT GRN
DIGITAL OUTPUT F-3	499M	r	LT GRN
TACHOMETER DRIVE-MASTER	505M	E	GRA
STOP ENGINE LIGHT	509	n	PPL
VARIABLE SPEED GOVERNOR	510	V	BRN
DIGITAL INPUT H-1	523M	b	GRA/RED
DIGITAL INPUT H-2	524	T	GRA
DIAGNOSTIC REQUEST/SEO-M	528	j	BRN/RED
DIGITAL INPUT J-2	531M	F	ORN
DIGITAL INPUT J-1	541M	L	YEL/RED
DIGITAL INPUT F-1	542M	e	YEL
DIGITAL INPUT F-2	544	k	BRN/WHT
DIGITAL INPUT G-3	545M	h	LT BLUE/YEL
DIGITAL OUTPUT A-2	555M	Z	TAN
VEHICLE SPEED (+)	556	M	LT BLUE/BLK
VEHICLE SPEED (-)	557	D	LT BLUE/ORN
DIGITAL OUTPUT W-3	563M	f	TAN
DIGITAL OUTPUT X-3	564M	m	YEL
DIGITAL OUTPUT Y-3	565M	s	PNK
DIGITAL INPUT K-2	583	B	LT BLU/BLK
ANALOG INPUT	749M	d	YEL
DATA LINK (+)	900	H	DK GREEN/YEL
DATA LINK (-)	901	P	DK GREEN
PWM #1 OUTPUT	908M	K	WHT
SENSOR SUPPLY (5VDC)	916M	U	RED/BLK
SENSOR RETURN	952M	W	BLK
DIGITAL INPUT K-3	979	C	WHT
DIGITAL OUTPUT A-1	988M	R	GRA

IGNITION CONNECTOR

LABEL WIRE NO CAVITY COLOR

POWER HARNESS-JUMPER	440	A	ORN
BATTERY GROUND	953	B	BLK/WHT



CONNECTOR KIT INCLUDES
TERMINAL
AND SEALS
DDC P/N: 23515462
CAVITY PLUG (NOT INCLUDED IN KIT)
DDC P/N: 23516509



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

NOTE:
FUSE MUST BE PLACED BETWEEN
MATING CONNECTOR AND BATTERY

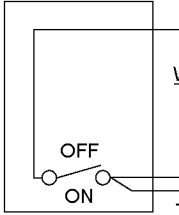
WIRE NO. COLOR
953 BLK

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

440

ORN

SWITCHED
IGNITION



WIRE NO. COLOR
439 PNK

+ 12/24 VDC
MUST PROVIDE IGNITION POWER
IN RUN AND CRANK MODES.

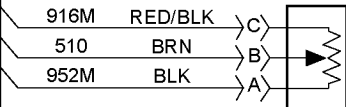
DO NOT SOURCE ANY
ACCESSORY FROM CIRCUIT 439

GOVERNOR

WIRE NO. COLOR

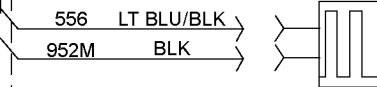


LIMITING SPEED GOVERNOR
(THROTTLE POSITION SENSOR)



VARIABLE SPEED GOVERNOR
(POWER TAKE-OFF CONTROL)

FREQUENCY INPUT VARIABLE SPEED GOVERNOR

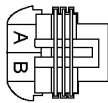


SQUARE WAVE
FREQUENCY INPUT

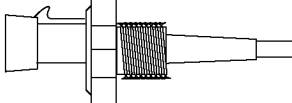
COOLANT LEVEL SENSOR

WIRE NO. CAVITY COLOR

115M	A	ORN
953	B	BLK/WHT

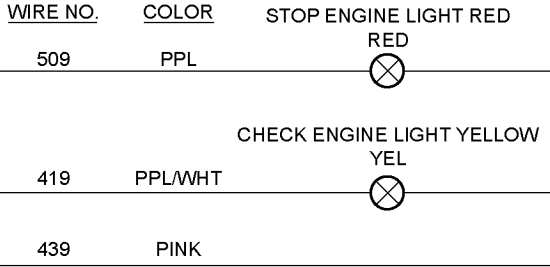


280 SERIES
METRI-PACK
CONNECTOR
DDC P/N: 15300027



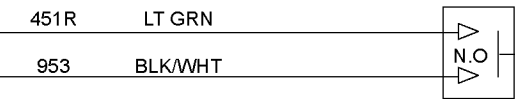
COOLANT LEVEL PROBE
3/8 in. NPT
DDC P/N: 23512881
1/4 in. NPT
DDC P/N: 23512880
9/16 in. UNF
DDC P/N: 23522855

INSTRUMENT PANEL



STOP ENGINE
OVERRIDE SWITCH
(ENGINE RUNNING)
DIAGNOSTIC
REQUEST (ENGINE
OFF/IGNITION ON)
(MOMENTARY)

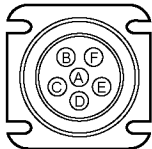
NOTE:
SWITCH IS STOP ENGINE OVERRIDE
FOR ALL ECM AND DIAGNOSTIC
REQUEST FOR THE MASTER ECM.



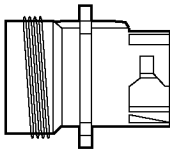
DIAGNOSTIC
REQUEST
FOR RECEIVER
(ENGINE
OFF/ IGNITION ON)
(MOMENTARY)

DIAGNOSTIC CONNECTOR

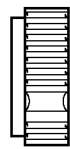
WIRE NO.	CAVITY	COLOR
900	A	DK GRN/YEL
901	B	DK GRN
439	C	PINK
---	D	CAVITY PLUG P/N: 23507136
953	E	BLK/WHT
---	F	CAVITY PLUG P/N: 23507136



TERMINAL
DDC P/N: 23513053



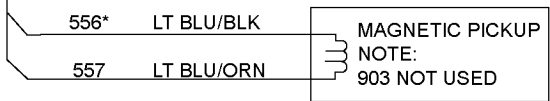
CONNECTOR AND
SEAL ASSEMBLY
DDC P/N: 23513052



PROTECTIVE CAP
DDC P/N: 23513054

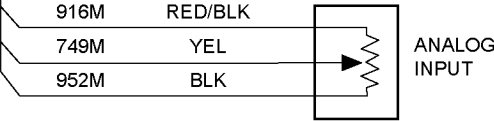
VEHICLE SPEED SENSOR

WIRE COLOR



* VEHICLE SPEED SENSOR IS NOT USED WITH
THE FREQUENCY INPUT VSG. IF BOTH VSS
AND THE FREQUENCY INPUT VSG ABILITIES
ARE REQUIRED A DIFFERENT 6N4C DDEC
CALIBRATION IS REQUIRED AND WIRE 556
ON THE FREQUENCY INPUT VSG IS
SUBSTITUTED WITH WIRE 573 (AUXILIARY
TIMED INPUT).

WIRE	COLOR	NAME
451M	LT GRN	DIGITAL INPUT E-1
542M	YEL	DIGITAL INPUT F-1
545M	LT BLU/YEL	DIGITAL INPUT G-3
523M	GRA/RED	DIGITAL INPUT H-1
524M	GRA	DIGITAL INPUT H-2
541M	YEL/RED	DIGITAL INPUT J-1
531M	ORN	DIGITAL INPUT J-2
583	LT BLU/BLK	DIGITAL INPUT K-2
979	WHT	DIGITAL INPUT K-3
988M	GRA	DIGITAL OUTPUT A-1
555M	TAN	DIGITAL OUTPUT A-2
499M	LT GRN	DIGITAL OUTPUT F-3
563M	TAN	DIGITAL OUTPUT W-3
564M	YEL	DIGITAL OUTPUT X-3
565M	PNK	DIGITAL OUTPUT Y-3
908M	WHT	PWM #1 OUTPUT
505M	GRA	TACHOMETER DRIVE

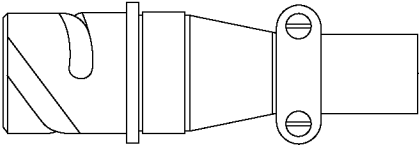
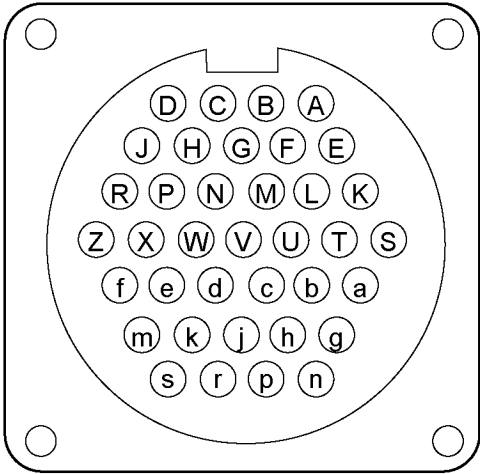


SEE SHEET 2 IF OPTIONAL 12H00
GROUPS ARE SPECIFIED



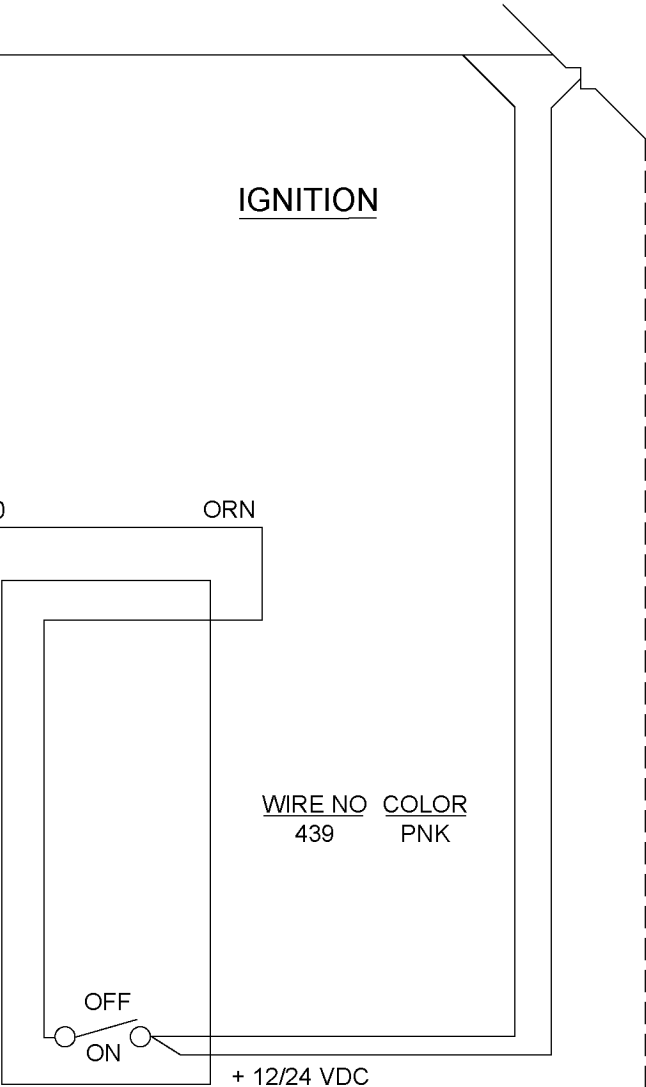
DDEC IV INTERFACE HARNESS CONNECTOR SERIES 2000
USED WITH OPTIONAL 12H00 GROUPS

LABEL	WIRE NO	CAVITY	COLOR
COOLANT LEVEL	115M	c	ORN
LIMITING SPEED GOVERNOR	417	N	DK BLUE
CHECK ENGINE LIGHT	419	p	PPL/WHT
IGNITION	439	A	PNK
DIGITAL INPUT E-1	451M	g	LT GRN
DIAGNOSTIC REQUEST-R	451R	a	LT GRN
DIGITAL OUTPUT F-3	499M	r	LT GRN
TACHOMETER DRIVE-MASTER	505M	E	GRA
STOP ENGINE LIGHT	509	n	PPL
VARIABLE SPEED GOVERNOR	510	V	BRN
DIGITAL INPUT H-1	523M	b	GRA/RED
DIGITAL INPUT H-2	524	T	GRA
DIAGNOSTIC REQUEST/SEO-M	528	j	BRN/RED
DIGITAL INPUT J-2	531M	F	ORN
DIGITAL INPUT J-1	541M	L	YEL/RED
DIGITAL INPUT F-1	542M	e	YEL
DIGITAL INPUT F-2	544	k	BRN/WHT
DIGITAL INPUT G-3	545M	h	LT BLUE/YEL
DIGITAL OUTPUT A-2	555M	Z	TAN
VEHICLE SPEED (+)	556	M	LT BLUE/BLK
VEHICLE SPEED (-)	557	D	LT BLUE/ORN
DIGITAL OUTPUT W-3	563M	f	TAN
DIGITAL OUTPUT X-3	564M	m	YEL
DIGITAL OUTPUT Y-3	565M	s	PNK
DIGITAL INPUT K-2	583	B	LT BLU/BLK
ANALOG INPUT	749M	d	YEL
DATA LINK (+)	900	H	DK GREEN/YEL
DATA LINK (-)	901	P	DK GREEN
PWM #1 OUTPUT	908M	K	WHT
SENSOR SUPPLY (5VDC)	916M	U	RED/BLK
SENSOR RETURN	952M	W	BLK
DIGITAL INPUT K-3	979	C	WHT
DIGITAL OUTPUT A-1	988M	R	GRA
POWER HARNESS-JUMPER	440	J	ORN
BATTERY GROUND	953	G	BLK



CONNECTOR KIT INCLUDES
TERMINAL AND SEALS
DDC P/N: 23515462
CAVITY PLUG (NOT INCLUDED IN KIT)
CANNON P/N: 23516509

SWITCHED
IGNITION



MUST PROVIDE IGNITION POWER
IN RUN AND CRANK MODES.

DO NOT SOURCE ANY
ACCESSORY FROM CIRCUIT 439

REQUIRED WIRING IF OPTIONAL
12H00 GROUPS ARE SPECIFIED

GROUP NO. REF:
35-00-2206, 35-00-2501,
35-00-2483, 35-00-2471, 35-00-2490

SERIES 2000
VEHICLE INTERFACE HARNESS