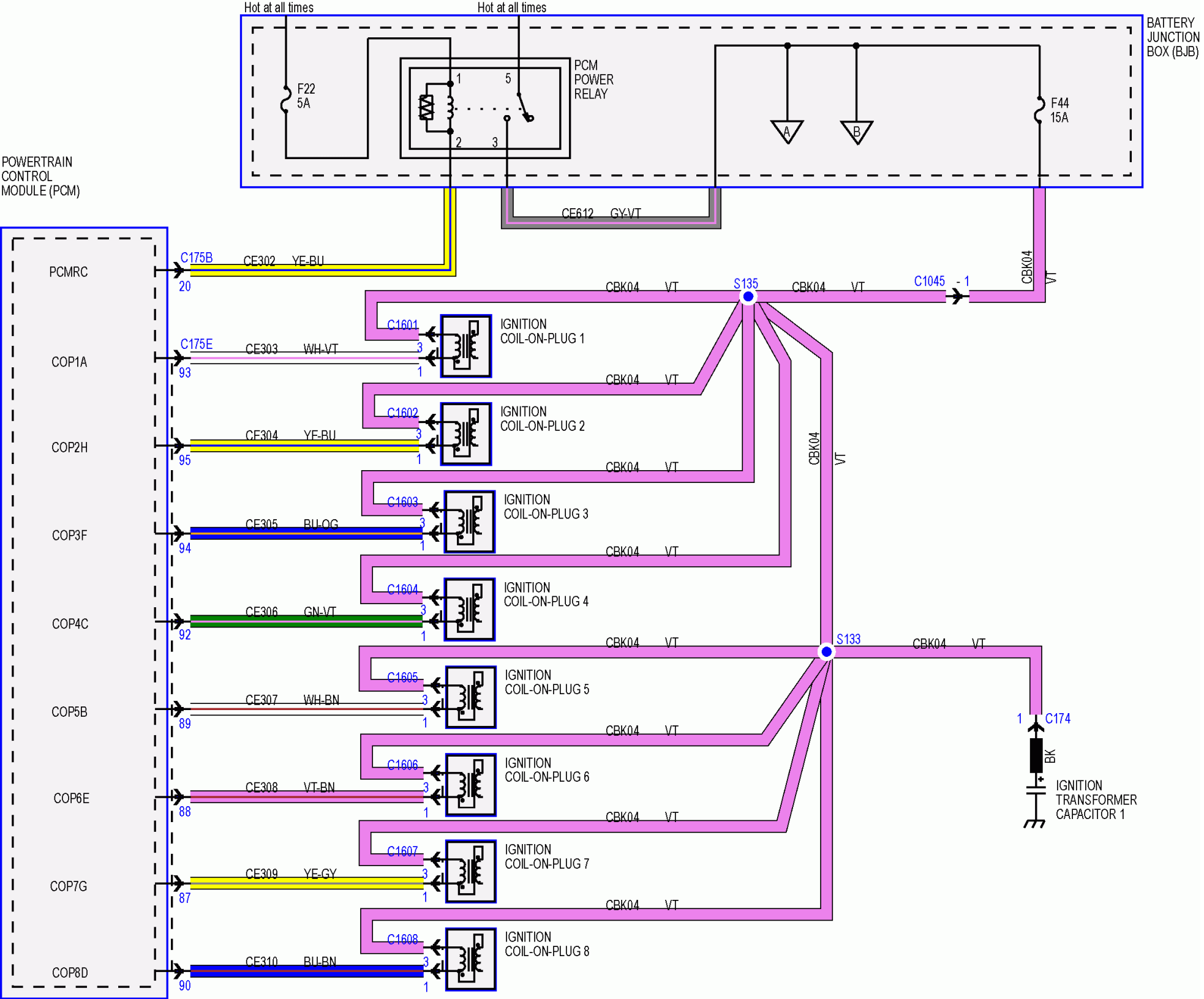
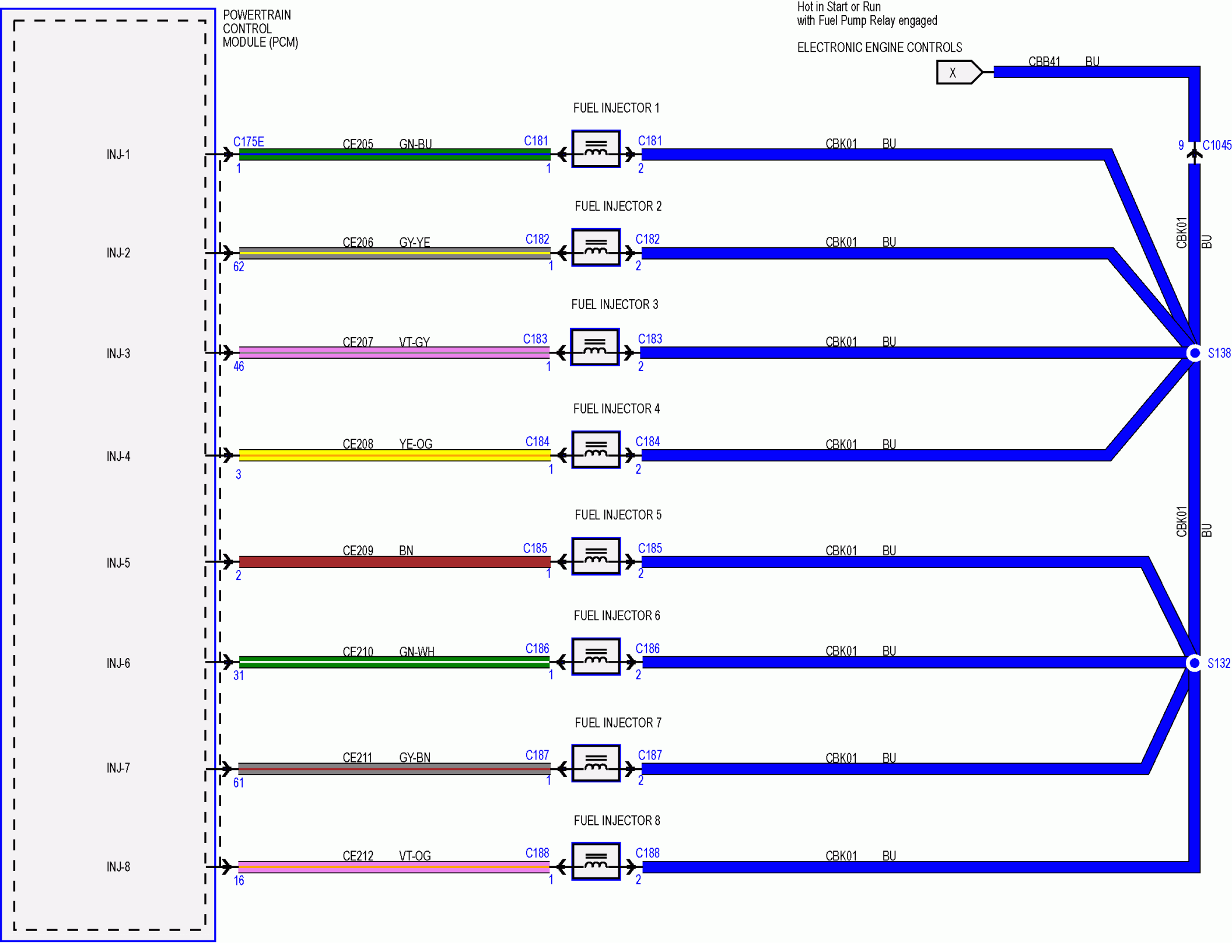
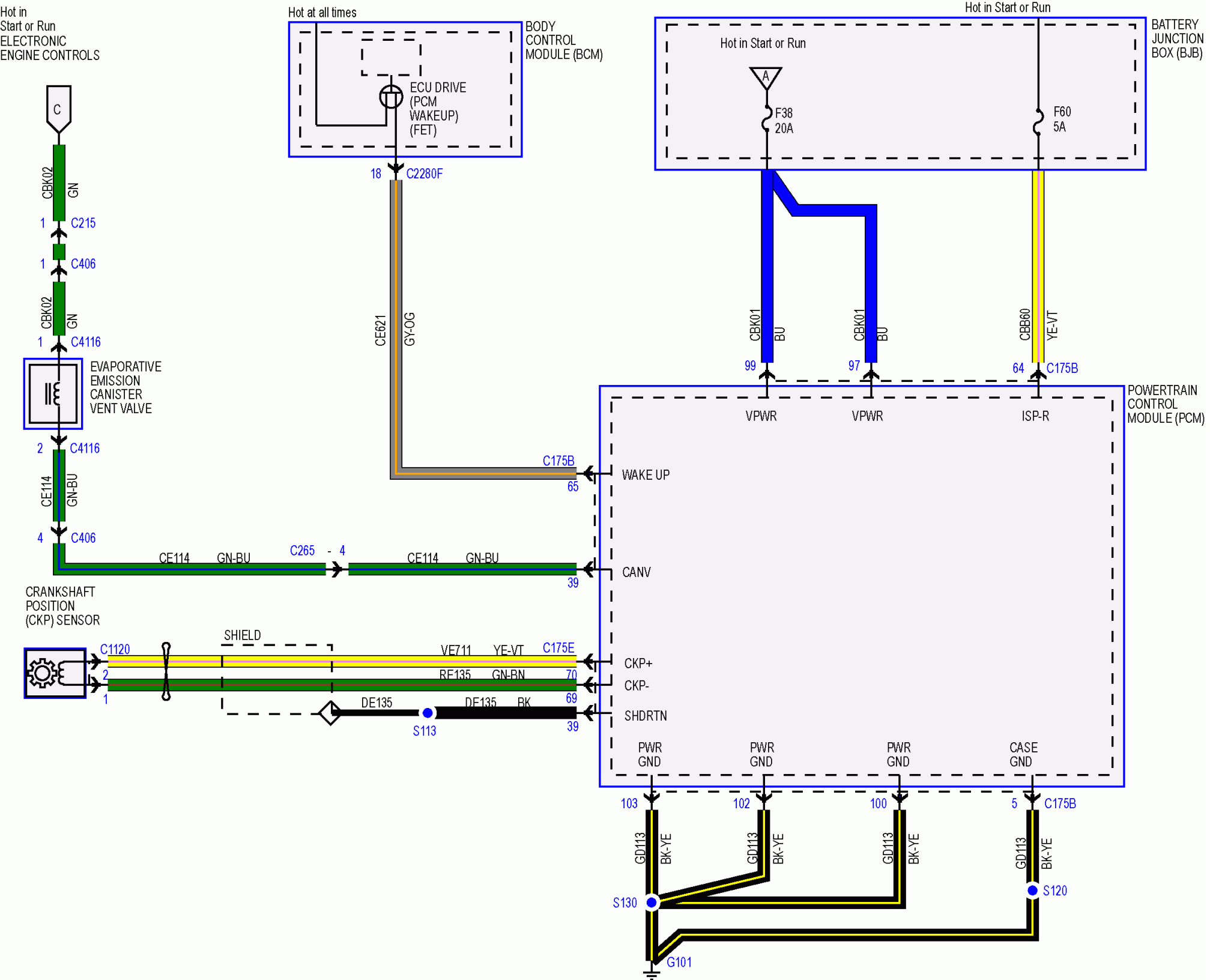
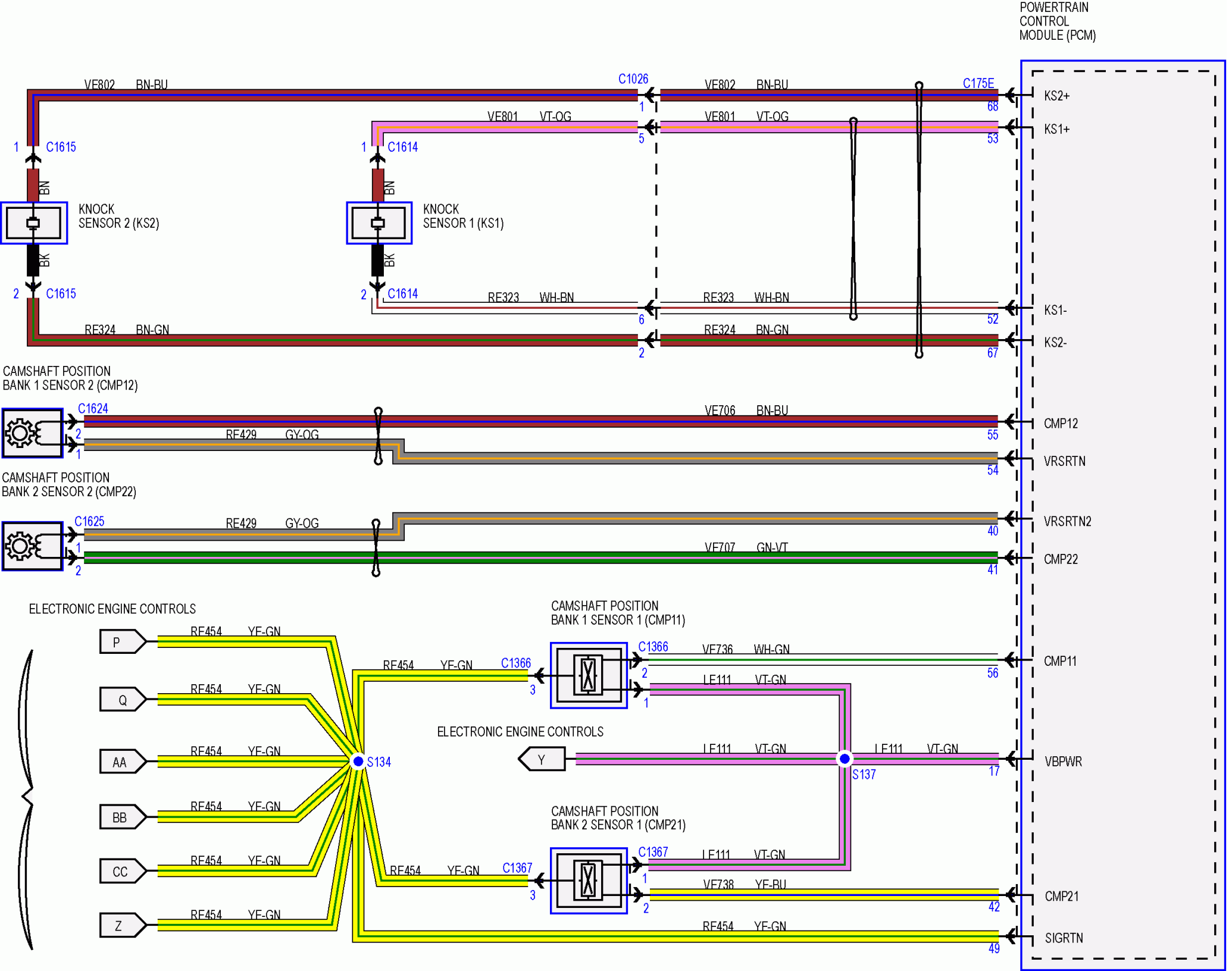
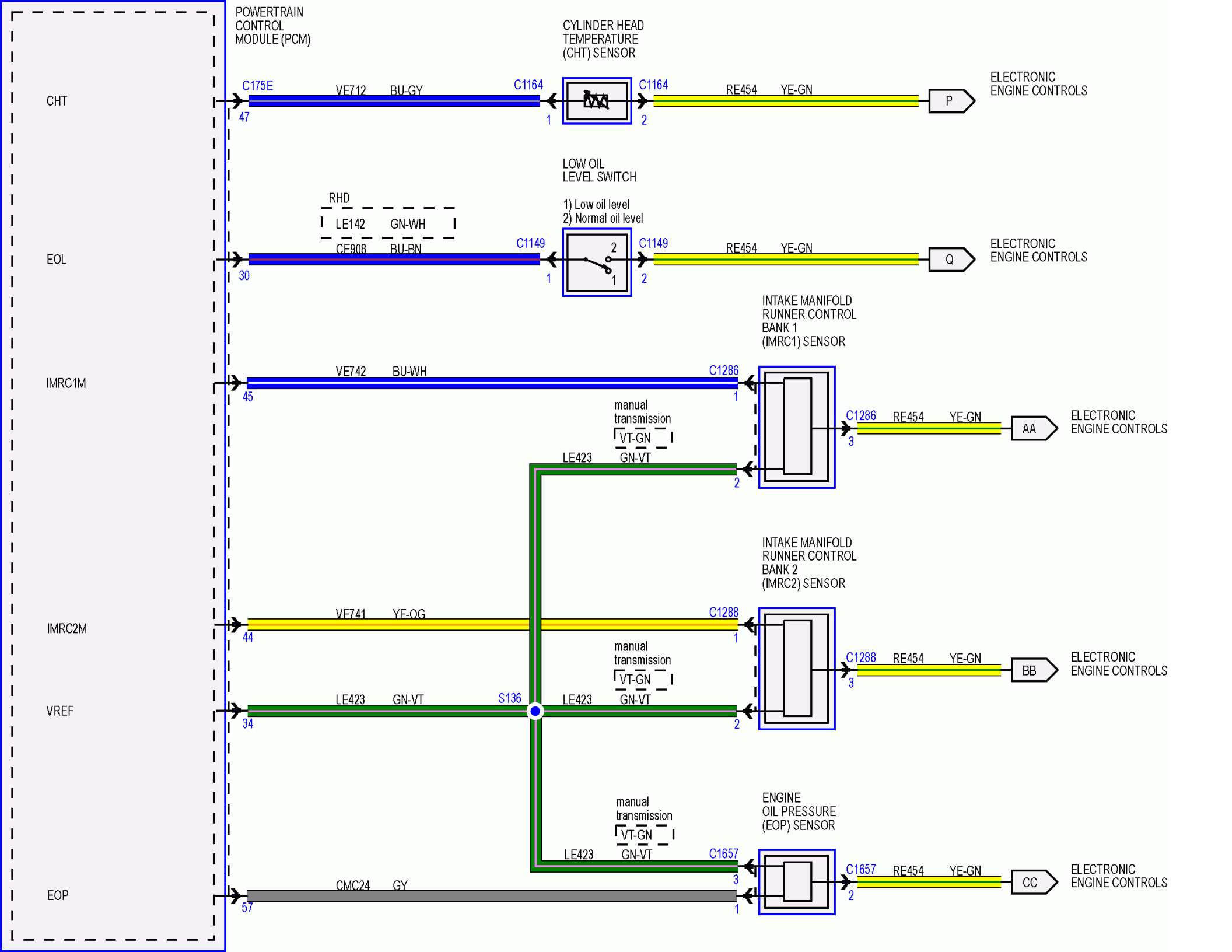
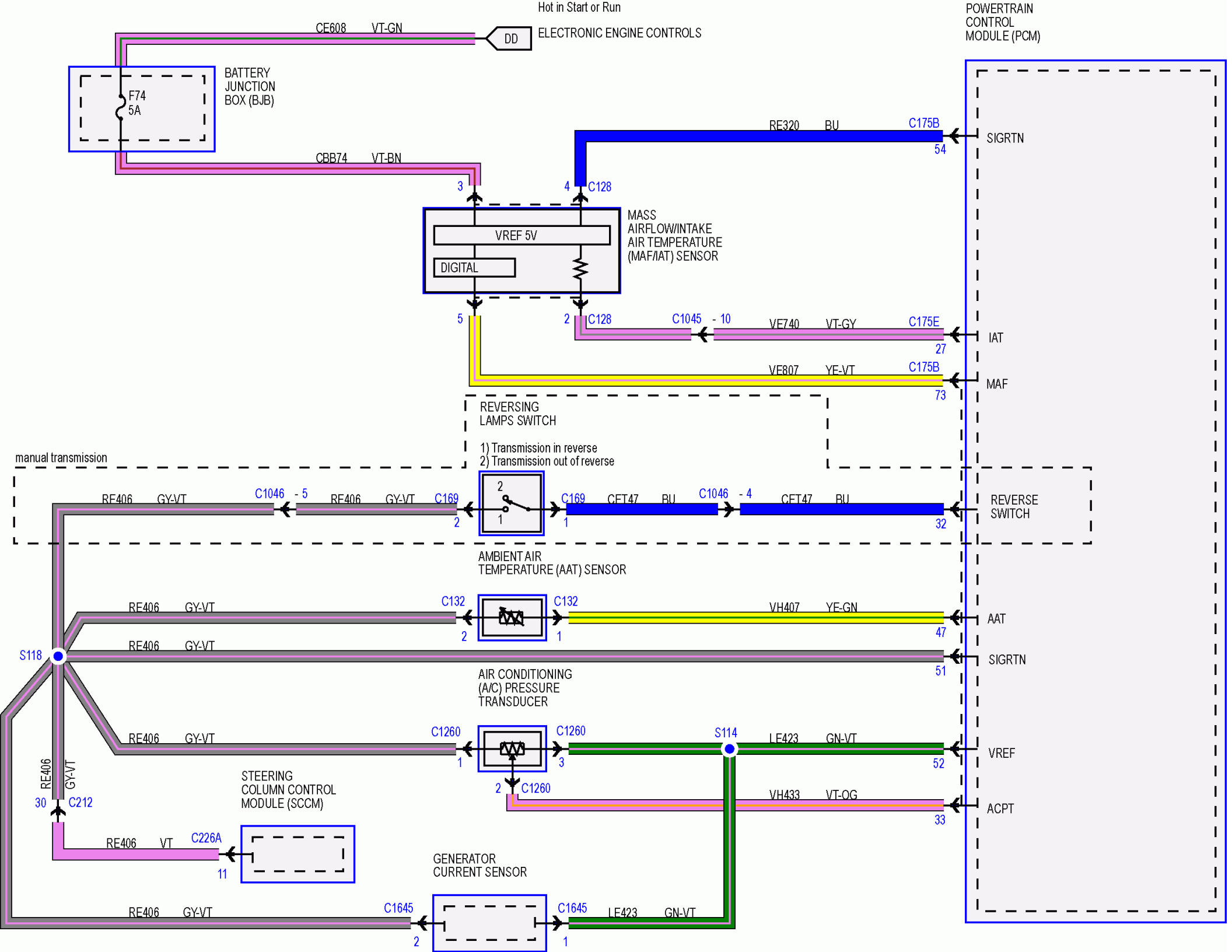

Hot at all times
Hot at all times
BATTERY JUNCTION BOX (BJB)
F22 5A
PCM POWER RELAY
1
5
2
3
A
B
F44 15A
POWERTRAIN CONTROL MODULE (PCM)
CE612 GY-VT
PCMRC
C175B
CE302 YE-BU
20
CBK04 VT
S135
C1045 - 1
CBK04 VT
C1601
IGNITION COIL-ON-PLUG 1
COP1A
C175E
CE303 WH-VT
93
3
1
CBK04 VT
C1602
IGNITION COIL-ON-PLUG 2
COP2H
CE304 YE-BU
95
CBK04 VT
C1603
IGNITION COIL-ON-PLUG 3
COP3F
CE305 BU-OG
94
CBK04 VT
C1604
IGNITION COIL-ON-PLUG 4
COP4C
CE306 GN-VT
92
CBK04 VT
S133
CBK04 VT
C1605
IGNITION COIL-ON-PLUG 5
COP5B
CE307 WH-BN
89
CBK04 VT
C1606
IGNITION COIL-ON-PLUG 6
COP6E
CE308 VT-BN
88
CBK04 VT
C1607
IGNITION COIL-ON-PLUG 7
COP7G
CE309 YE-GY
87
CBK04 VT
C1608
IGNITION COIL-ON-PLUG 8
COP8D
CE310 BU-BN
90
1
C174
BK
IGNITION TRANSFORMER CAPACITOR 1

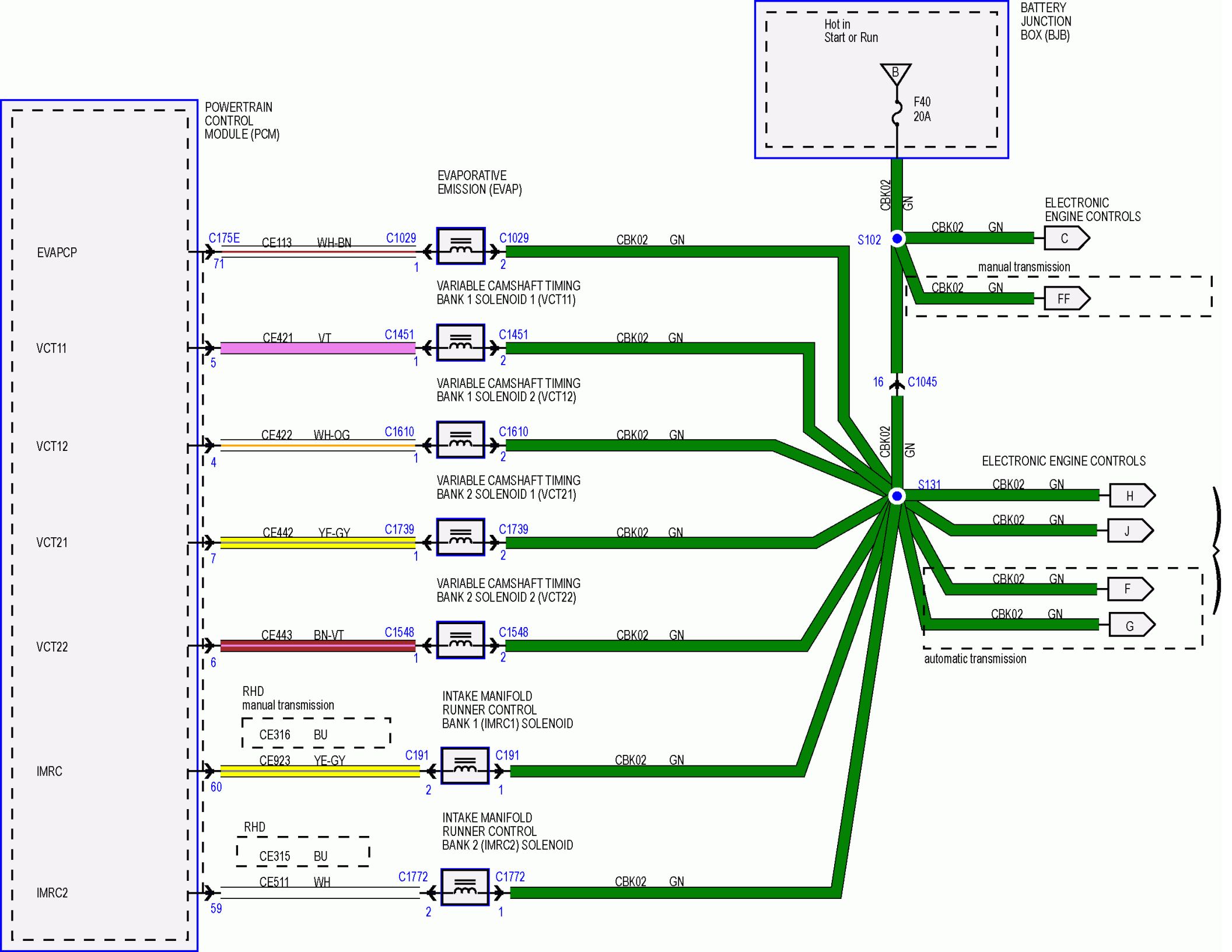

POWERTRAIN CONTROL MODULE (PCM)
Hot in Start or Run with Fuel Pump Relay engaged
ELECTRONIC ENGINE CONTROLS
X
CBB41 BU
INJ-1
INJ-2
INJ-3
INJ-4
INJ-5
INJ-6
INJ-7
INJ-8
FUEL INJECTOR 1
FUEL INJECTOR 2
FUEL INJECTOR 3
FUEL INJECTOR 4
FUEL INJECTOR 5
FUEL INJECTOR 6
FUEL INJECTOR 7
FUEL INJECTOR 8
C175E
CE205 GN-BU
C181
CBK01 BU
9 C1045
CE206 GY-YE
C182
CE207 VT-GY
C183
CE208 YE-OG
C184
CE209 BN
C185
CE210 GN-WH
C186
CE211 GY-BN
C187
CE212 VT-OG
C188
CBK01 BU
S138
S132
1
62
46
3
2
31
61
16

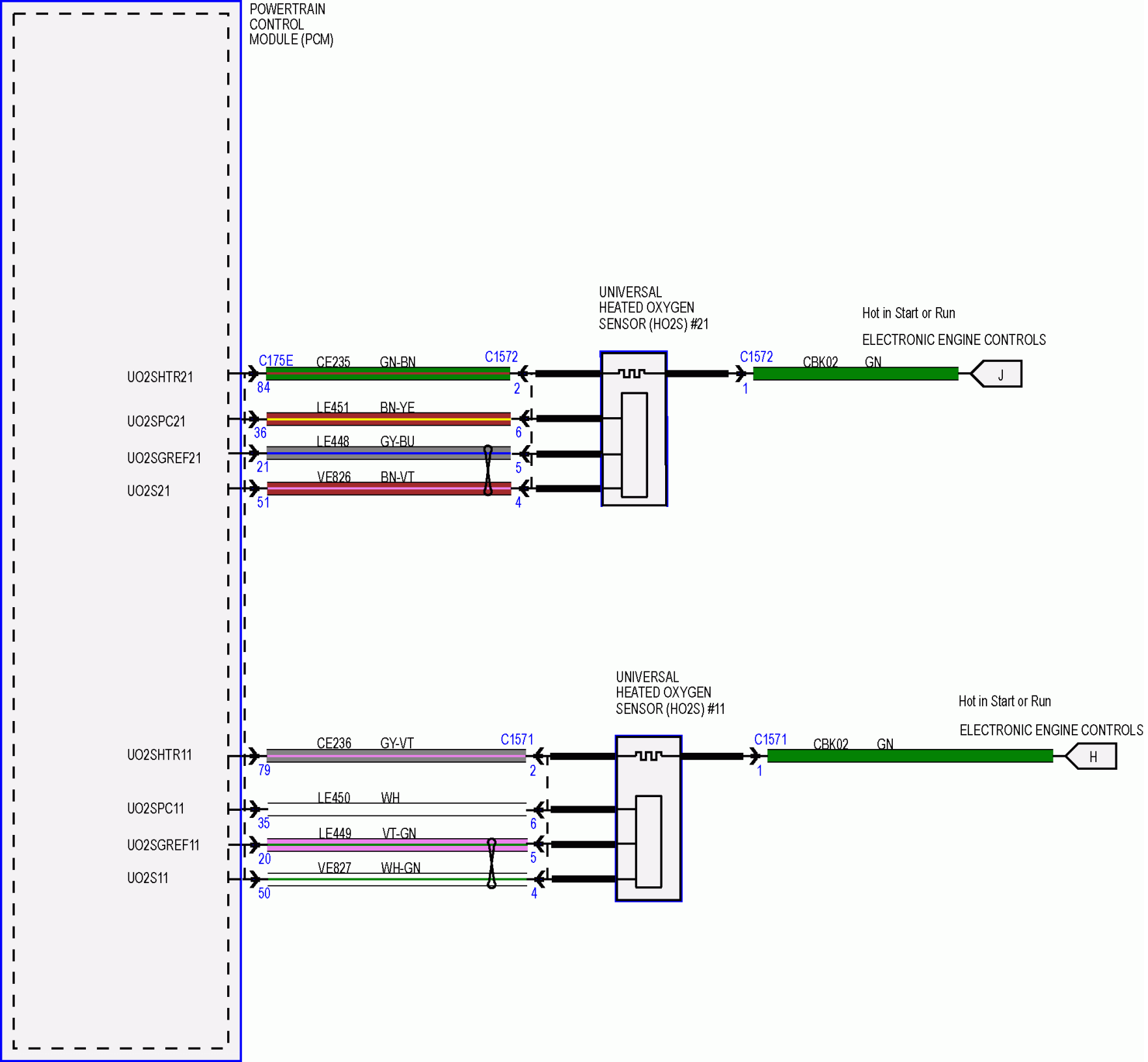

Hot in
Start or Run
ELECTRONIC
ENGINE CONTROLS
Hot at all times
BODY
CONTROL
MODULE (BCM)
ECU DRIVE
(PCM
WAKEUP)
(FET)
18
C2280F
Hot in Start or Run
BATTERY
JUNCTION
BOX (BJB)
Hot in Start or Run
A
F38
20A
F60
5A
C
CBK02
GN
1
C215
1
C406
CBK02
GN
1
C4116
EVAPORATIVE
EMISSION
CANISTER
VENT VALVE
2
C4116
CE114
GN-BU
4
C406
CE621
GY-OG
CBK01
BU
CBK01
BU
CBB60
YE-VT
99
97
64
C175B
VPWR
VPWR
ISP-R
POWERTRAIN
CONTROL
MODULE (PCM)
C175B
65
WAKE UP
CE114
GN-BU
C265
4
CE114
GN-BU
39
CANV
CRANKSHAFT
POSITION
(CKP) SENSOR
SHIELD
C1120
VE711
YE-VT
C175E
2
RE135
GN-BN
70
CKP+
CKP-
1
DE135
DE135
BK
69
39
S113
SHDRTN
PWR
GND
PWR
GND
PWR
GND
CASE
GND
103
102
100
5
C175B
GD113
BK-YE
GD113
BK-YE
GD113
BK-YE
GD113
BK-YE
S130
S120
G101

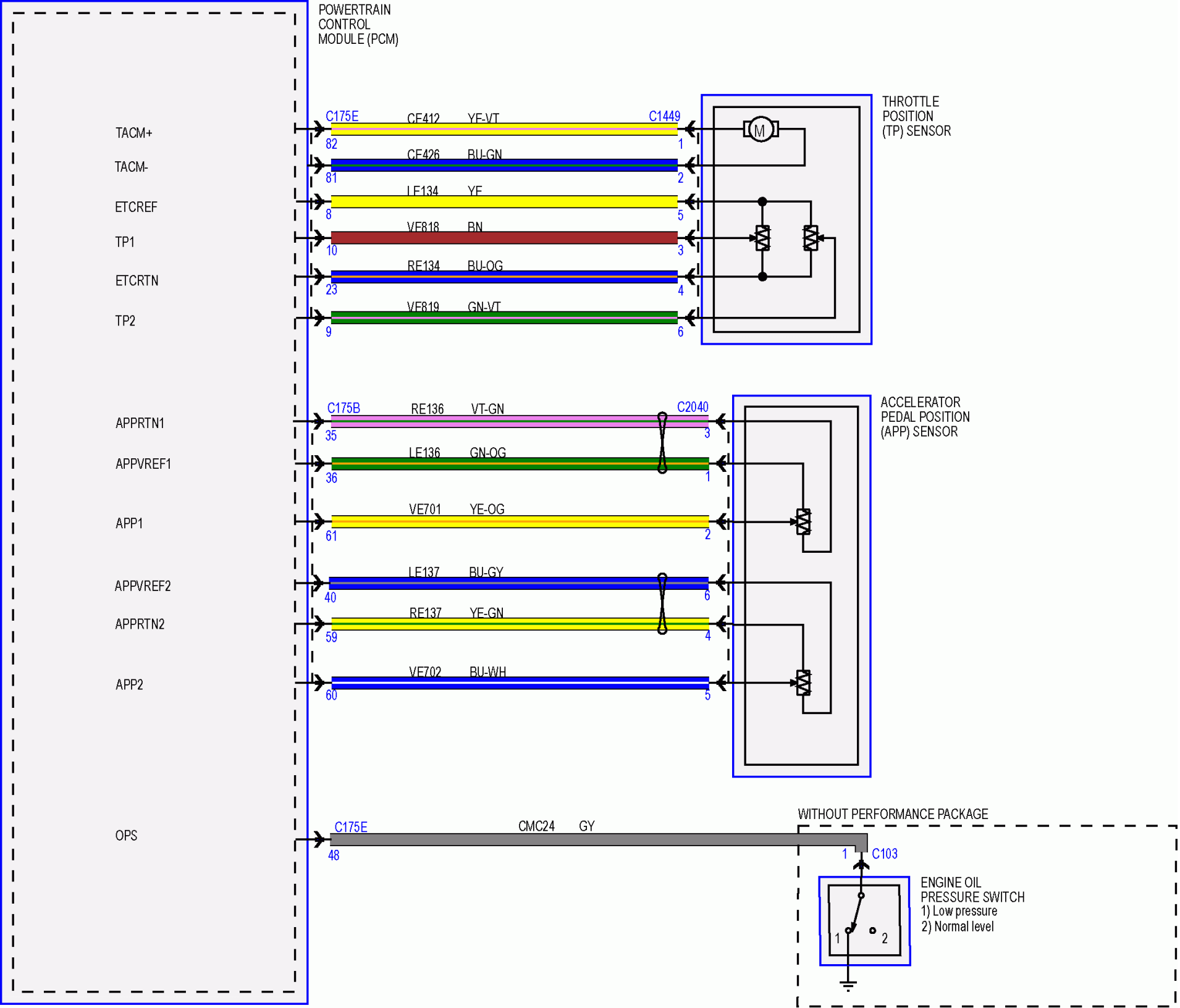

POWERTRAIN CONTROL MODULE (PCM)
VE802 BN-BU
C1026
VE802 BN-BU
C175E
KS2+
1
68
VE801 VT-OG
VE801 VT-OG
KS1+
5
53
1 C1615
1 C1614
BN
KNOCK SENSOR 2 (KS2)
KNOCK SENSOR 1 (KS1)
BK
2 C1615
2 C1614
RE323 WH-BN
RE323 WH-BN
KS1-
6
52
RE324 BN-GN
RE324 BN-GN
KS2-
2
67
CAMSHAFT POSITION BANK 1 SENSOR 2 (CMP12)
C1624
VE706 BN-BU
CMP12
2
55
RE429 GY-OG
VRSRTN
1
54
CAMSHAFT POSITION BANK 2 SENSOR 2 (CMP22)
C1625
RE429 GY-OG
VRSRTN2
40
1
VE707 GN-VT
CMP22
2
41
ELECTRONIC ENGINE CONTROLS
CAMSHAFT POSITION BANK 1 SENSOR 1 (CMP11)
P
RE454 YE-GN
RE454 YE-GN
C1366
C1366
VE736 WH-GN
CMP11
3
2
56
Q
RE454 YE-GN
LE111 VT-GN
1
AA
RE454 YE-GN
S134
ELECTRONIC ENGINE CONTROLS
Y
LE111 VT-GN
LE111 VT-GN
VBPWR
S137
17
BB
RE454 YE-GN
CAMSHAFT POSITION BANK 2 SENSOR 1 (CMP21)
CC
RE454 YE-GN
RE454 YE-GN
C1367
C1367
LE111 VT-GN
3
1
VE738 YE-BU
CMP21
2
42
Z
RE454 YE-GN
RE454 YE-GN
SIGRTN
49

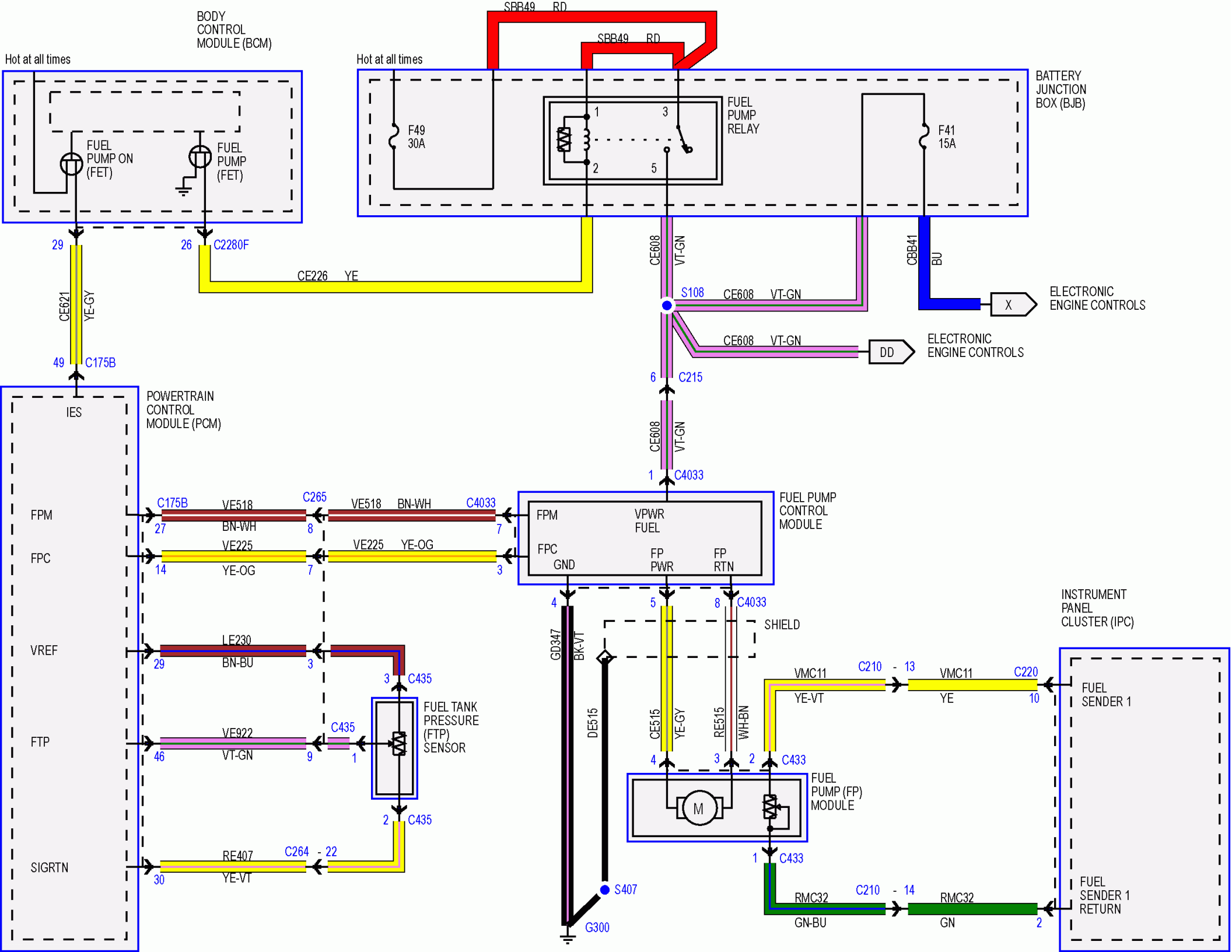

POWERTRAIN CONTROL MODULE (PCM)
CYLINDER HEAD TEMPERATURE (CHT) SENSOR
CHT
C175E
47
VE712 BU-GY
C1164
1
C1164
2
RE454 YE-GN
P
ELECTRONIC ENGINE CONTROLS
LOW OIL LEVEL SWITCH
1) Low oil level
2) Normal oil level
RHD
LE142 GN-WH
EOL
CE908 BU-BN
30
C1149
1
2
1
C1149
2
RE454 YE-GN
Q
ELECTRONIC ENGINE CONTROLS
INTAKE MANIFOLD RUNNER CONTROL BANK 1 (IMRC1) SENSOR
IMRC1M
VE742 BU-WH
45
C1286
1
manual transmission
VT-GN
LE423 GN-VT
2
C1286
3
RE454 YE-GN
AA
ELECTRONIC ENGINE CONTROLS
INTAKE MANIFOLD RUNNER CONTROL BANK 2 (IMRC2) SENSOR
IMRC2M
VE741 YE-OG
44
C1288
1
manual transmission
VT-GN
VREF
LE423 GN-VT
34
S136
LE423 GN-VT
2
C1288
3
RE454 YE-GN
BB
ELECTRONIC ENGINE CONTROLS
ENGINE OIL PRESSURE (EOP) SENSOR
manual transmission
VT-GN
LE423 GN-VT
C1657
3
EOP
CMC24 GY
57
1
C1657
2
RE454 YE-GN
CC
ELECTRONIC ENGINE CONTROLS

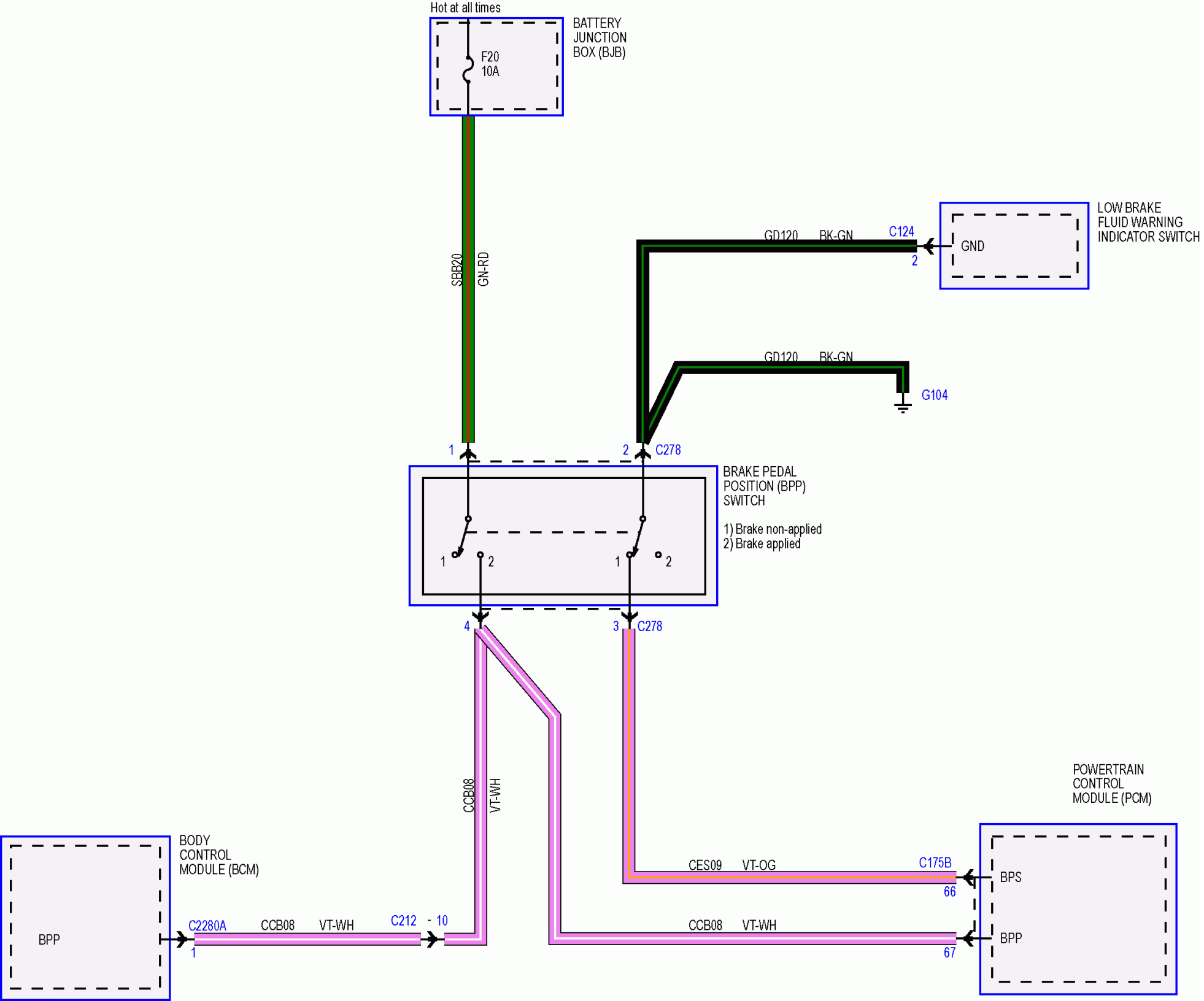

Hot in Start or Run
CE608 VT-GN
DD
ELECTRONIC ENGINE CONTROLS
POWERTRAIN CONTROL MODULE (PCM)
BATTERY JUNCTION BOX (BJB)
F74 5A
CBB74 VT-BN
3
4 C128
RE320 BU
C175B
54
SIGRTN
VREF 5V
DIGITAL
MASS AIRFLOW/INTAKE AIR TEMPERATURE (MAF/IAT) SENSOR
5
2 C128
C1045 - 10
VE740 VT-GY
C175E
27
IAT
VE807 YE-VT
C175B
73
MAF
REVERSING LAMPS SWITCH
1) Transmission in reverse
2) Transmission out of reverse
manual transmission
RE406 GY-VT
C1046 - 5
RE406 GY-VT
C169
2
1
C169
CET47 BU
C1046 - 4
CET47 BU
32
REVERSE SWITCH
AMBIENT AIR TEMPERATURE (AAT) SENSOR
RE406 GY-VT
C132
2
1
C132
VH407 YE-GN
47
AAT
S118
RE406 GY-VT
51
SIGRTN
AIR CONDITIONING (A/C) PRESSURE TRANSDUCER
RE406 GY-VT
C1260
1
3
C1260
S114
LE423 GN-VT
52
VREF
RE406 GY-VT
30 C212
STEERING COLUMN CONTROL MODULE (SCCM)
2 C1260
VH433 VT-OG
33
ACPT
RE406 VT
C226A
11
GENERATOR CURRENT SENSOR
RE406 GY-VT
C1645
2
1
C1645
LE423 GN-VT

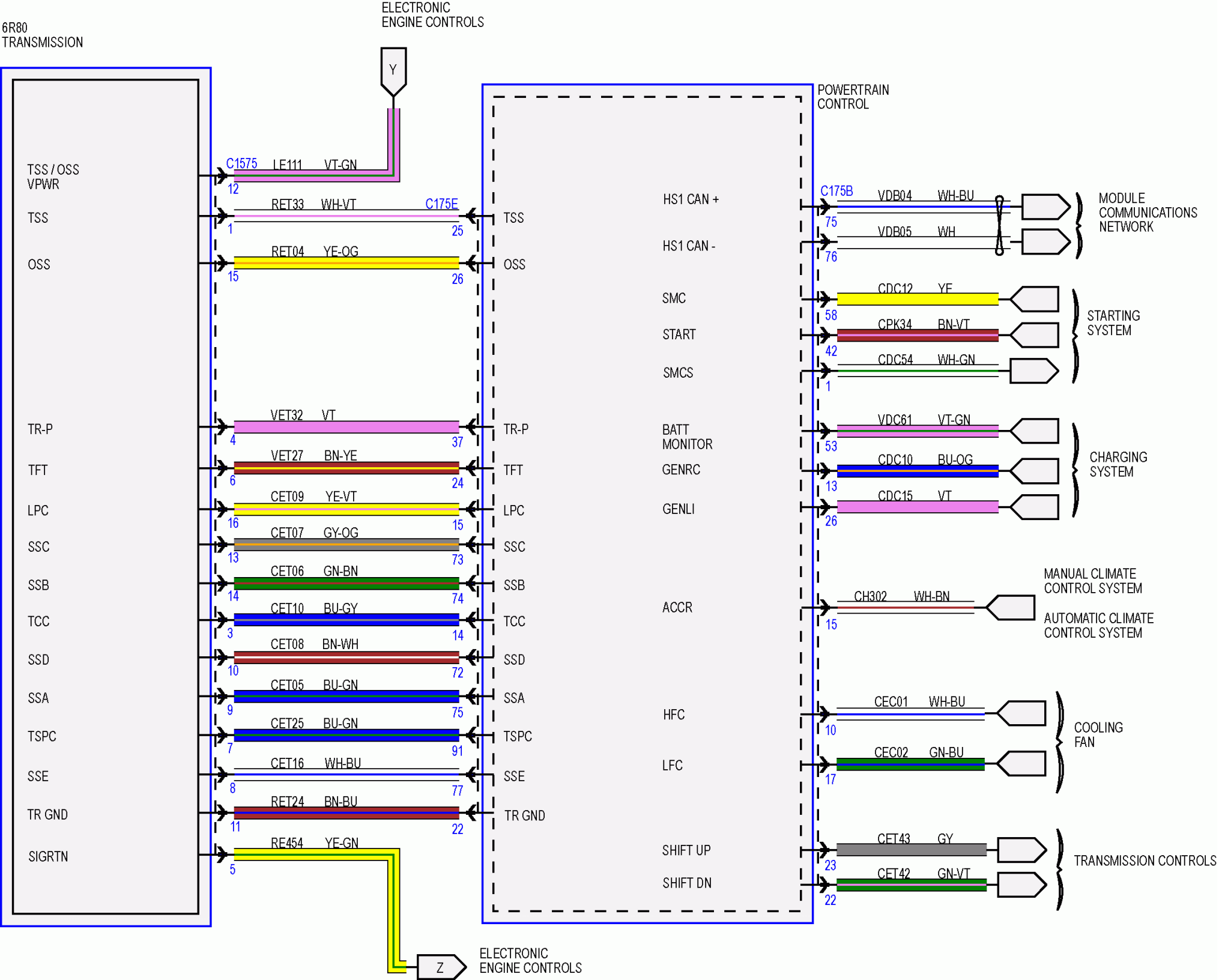

POWERTRAIN CONTROL MODULE (PCM)
EVAPCP
VCT11
VCT12
VCT21
VCT22
IMRC
IMRC2
EVAPORATIVE EMISSION (EVAP)
C175E
71
CE113 WH-BN
C1029
1
2
VARIABLE CAMSHAFT TIMING BANK 1 SOLENOID 1 (VCT11)
CE421 VT
C1451
5
VARIABLE CAMSHAFT TIMING BANK 1 SOLENOID 2 (VCT12)
CE422 WH-OG
C1610
4
VARIABLE CAMSHAFT TIMING BANK 2 SOLENOID 1 (VCT21)
CE442 YE-GY
C1739
7
VARIABLE CAMSHAFT TIMING BANK 2 SOLENOID 2 (VCT22)
CE443 BN-VT
C1548
6
RHD
manual transmission
CE316 BU
INTAKE MANIFOLD RUNNER CONTROL BANK 1 (IMRC1) SOLENOID
CE923 YE-GY
C191
60
RHD
CE315 BU
INTAKE MANIFOLD RUNNER CONTROL BANK 2 (IMRC2) SOLENOID
CE511 WH
C1772
59
CBK02 GN
BATTERY JUNCTION BOX (BJB)
Hot in Start or Run
B
F40
20A
S102
16
C1045
S131
ELECTRONIC ENGINE CONTROLS
C
manual transmission
FF
H
J
F
G
automatic transmission


POWERTRAIN
CONTROL
MODULE (PCM)
UO2SHTR21
UO2SPC21
UO2SGREF21
UO2S21
C175E
84
CE235
GN-BN
C1572
2
LE451
BN-YE
36
6
LE448
GY-BU
21
5
VE826
BN-VT
51
4
UNIVERSAL
HEATED OXYGEN
SENSOR (HO2S) #21
C1572
1
CBK02
GN
J
Hot in Start or Run
ELECTRONIC ENGINE CONTROLS
UO2SHTR11
UO2SPC11
UO2SGREF11
UO2S11
CE236
GY-VT
C1571
79
2
LE450
WH
35
6
LE449
VT-GN
20
5
VE827
WH-GN
50
4
UNIVERSAL
HEATED OXYGEN
SENSOR (HO2S) #11
C1571
1
CBK02
GN
H
Hot in Start or Run
ELECTRONIC ENGINE CONTROLS


POWERTRAIN CONTROL MODULE (PCM)
TACM+
TACM-
ETCREF
TP1
ETCRTN
TP2
C175E
CE412 YE-VT
C1449
82
1
CE426 BU-GN
81
2
LE134 YE
8
5
VE818 BN
10
3
RE134 BU-OG
23
4
VE819 GN-VT
9
6
M
THROTTLE POSITION (TP) SENSOR
APPRTN1
APPVREF1
APP1
APPVREF2
APPRTN2
APP2
C175B
RE136 VT-GN
C2040
35
3
LE136 GN-OG
36
1
VE701 YE-OG
61
2
LE137 BU-GY
40
6
RE137 YE-GN
59
4
VE702 BU-WH
60
5
ACCELERATOR PEDAL POSITION (APP) SENSOR
OPS
C175E
CMC24 GY
48
WITHOUT PERFORMANCE PACKAGE
1
C103
1
2
ENGINE OIL PRESSURE SWITCH
1) Low pressure
2) Normal level


BODY CONTROL MODULE (BCM)
Hot at all times
FUEL PUMP ON (FET)
FUEL PUMP (FET)
29
26
C2280F
CE621 YE-GY
CE226 YE
49
C175B
IES
POWERTRAIN CONTROL MODULE (PCM)
SBB49 RD
Hot at all times
F49 30A
FUEL PUMP RELAY
F41 15A
BATTERY JUNCTION BOX (BJB)
CE608 VT-GN
CBB41 BU
S108
CE608 VT-GN
X
ELECTRONIC ENGINE CONTROLS
CE608 VT-GN
DD
ELECTRONIC ENGINE CONTROLS
6
C215
CE608 VT-GN
1
C4033
FPM
FPC
VREF
FTP
SIGRTN
C175B
VE518 BN-WH
C265
VE518 BN-WH
C4033
27
BN-WH
8
7
VE225 YE-OG
VE225 YE-OG
14
YE-OG
7
3
LE230 BN-BU
29
3
3
C435
VE922 VT-GN
C435
46
9
1
FUEL TANK PRESSURE (FTP) SENSOR
2
C435
RE407 YE-VT
C264 - 22
30
FUEL PUMP CONTROL MODULE
FPM
VPWR FUEL
FPC GND
FP PWR
FP RTN
4
5
8
C4033
SHIELD
GD347 BK-VT
DE515
S407
G300
CE515 YE-GY
RE515 WH-BN
4
3
2
C433
FUEL PUMP (FP) MODULE
M
1
C433
VMC11 YE-VT
C210 - 13
VMC11 YE
C220
10
RMC32 GN-BU
C210 - 14
RMC32 GN
2
INSTRUMENT PANEL CLUSTER (IPC)
FUEL SENDER 1
FUEL SENDER 1 RETURN


Hot at all times
BATTERY JUNCTION BOX (BJB)
F20
10A
SBB20
GN-RD
GD120 BK-GN
C124
2
GND
LOW BRAKE FLUID WARNING INDICATOR SWITCH
GD120 BK-GN
G104
1
2
C278
BRAKE PEDAL POSITION (BPP) SWITCH
1) Brake non-applied
2) Brake applied
4
3
C278
CCB08
VT-WH
POWERTRAIN CONTROL MODULE (PCM)
CES09 VT-OG
C175B
66
BPS
BPP
BODY CONTROL MODULE (BCM)
BPP
C2280A
CCB08 VT-WH
C212
10
1
CCB08 VT-WH
67


6R80
TRANSMISSION
ELECTRONIC
ENGINE CONTROLS
Y
POWERTRAIN
CONTROL
TSS / OSS
VPWR
TSS
OSS
TR-P
TFT
LPC
SSC
SSB
TCC
SSD
SSA
TSPC
SSE
TR GND
SIGRTN
C1575 LE111 VT-GN
12
RET33 WH-VT C175E
1 25
RET04 YE-OG
15 26
VET32 VT
4 37
VET27 BN-YE
6 24
CET09 YE-VT
16 15
CET07 GY-OG
13 73
CET06 GN-BN
14 74
CET10 BU-GY
3 14
CET08 BN-WH
10 72
CET05 BU-GN
9 75
CET25 BU-GN
7 91
CET16 WH-BU
8 77
RET24 BN-BU
11 22
RE454 YE-GN
5
TSS
OSS
TR-P
TFT
LPC
SSC
SSB
TCC
SSD
SSA
TSPC
SSE
TR GND
HS1 CAN +
HS1 CAN -
SMC
START
SMCS
BATT
MONITOR
GENRC
GENLI
ACCR
HFC
LFC
SHIFT UP
SHIFT DN
C175B VDB04 WH-BU
75
VDB05 WH
76
MODULE
COMMUNICATIONS
NETWORK
CDC12 YE
58
CPK34 BN-VT
42
CDC54 WH-GN
1
STARTING
SYSTEM
VDC61 VT-GN
53
CDC10 BU-OG
13
CDC15 VT
26
CHARGING
SYSTEM
CH302 WH-BN
15
MANUAL CLIMATE
CONTROL SYSTEM
AUTOMATIC CLIMATE
CONTROL SYSTEM
CEC01 WH-BU
10
CEC02 GN-BU
17
COOLING
FAN
CET43 GY
23
CET42 GN-VT
22
TRANSMISSION CONTROLS
Z
ELECTRONIC
ENGINE CONTROLS