Current Flow (1)

Each cell normally starts with the component that powers the circuit, such as a fuse or the ignition switch. Current flow is shown from the power source at the top of the page to ground at the bottom of the page. A full representation of the power supply of a fuse or the power distribution from a fuse to various components is given in cell 13 "Power Distribution." Full representation of the ground connections are shown in cell 10 "Grounds."

Switch Positions (2)

Within a schematic, all switches, sensors and relays are shown "at rest" (ignition switch OFF).

Splices (3)

Splices directly connecting to the power distribution are best represented on the power distribution schematic in cell 13 "Power Distribution." Splices connected to grounds can be seen completely in cell 10 "Grounds." For all other splices, a reference is given to each off page where that particular splice can be best viewed.

Component Referencing (4)

Components on a schematic have a reference to a component location view or the page where it is shown completely. The reference is located to the right of each component.

Component Names (5)

Component names are placed on the right hand side of each component when possible. Descriptions of the internals of the component are also included when available. The page where the component appears in full is listed in the Index. The base part number for a component is listed in cell 150 "Connector Views."

Internal Name and Function Identification Numbers (6)

Some components on each page have internal symbols with an identification number located within it. You can identify the internal symbol or function by finding the corresponding number under the component name.

Circuit Numbering and Wire Identification (7)

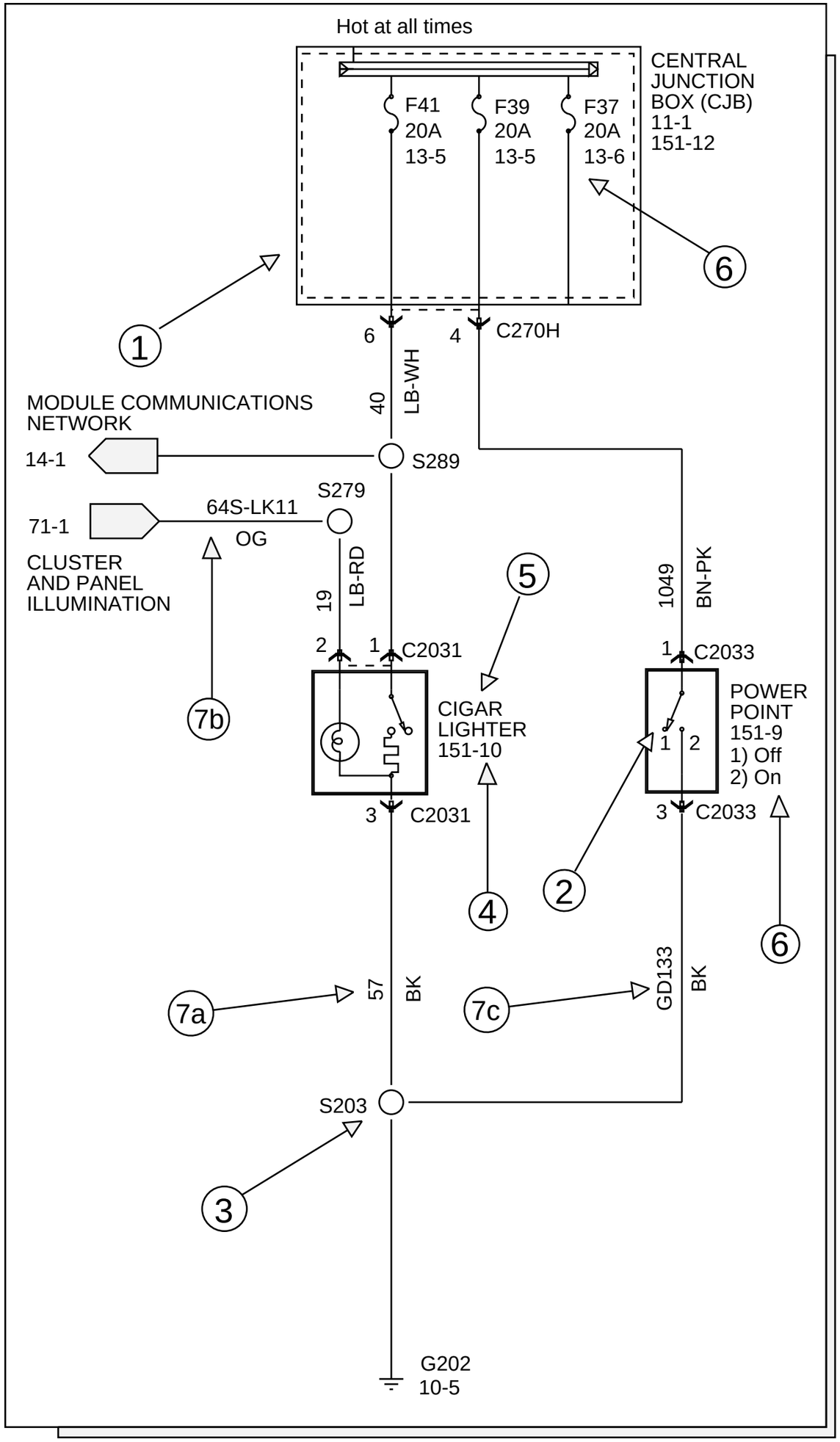
Ford Motor Company uses three different circuit numbering conventions: Standard Circuit Numbering System, Global Circuit Numbering System, and New Global Circuit Numbering System (NGCNS). With each, the circuit number (which identifies a specific circuit function) is followed by the wire color.

Examples:

Standard (a) Global (b) NGCNS (c)

NOTE: Refer to cell 150 "Connector Views" for circuit functions.

The wire identification consists of a basic color and possibly a stripe, and is determined directly from the wire's circuit number. In the schematics, the wire colors are indicated next to the wires. The colors are abbreviated using the international norm IEC 757. The abbreviations are listed in cell 4 "Symbols."



Hot at all times

BODY CONTROL MODULE (BCM)
11-5 151-19
151-20

MICRO

40 C2280E

CAT13 GN-OG

4

BATTERY JUNCTION BOX (BJB)
11-1

F91
40A
13-7

F107
30A
13-7

F55
30A
13-7

TRAILER TOW PARK RELAY
(Non-serviceable)

59 C1035C

SBB91 BU

23

SBB91 BU-RD

2

60 C1035C

SBBA7 BU-RD

10 C207

SBBA7 BU

1 C4397A

5 C1035B

CAT11 BN

S204

CAT11 BN

12 C4397C

28 C1035C

CAT17 BN

C207 - 37

CAT17 BN C2280F

12

BODY CONTROL MODULE (BCM)
11-5 151-19
151-20

TT PARK
(FET)

MODULE COMMUNICATIONS NETWORK

14-7 14-7

VDB06 GY-OG

VDB07 VT-OG

3

2 C4397B

THEFT SIGNAL
MS CAN +
MS CAN -
VBATT
VBATT
PARK
GND
LEFT TURN
RIGHT TURN
BATT CHG

TRAILER TOW MODULE
151-23 151-24

1 C4397B

GD349 BK-GY

G400
10-13 10-14

RAT08 WH

G415
10-14

1 C4397C

CAT28 YE

8

CAT29 GN

3

CAT14 OG

17

CAT28 YE

1

18

CAT29 GN

4

19

CAT14 OG

5

CAT11 BN

15 C201

CAT11 BN

6 C4099

2

GND
LEFT TURN
RIGHT TURN
BATT CHG
PARK

TRAILER TOW CONNECTOR, 7-PIN
151-23 151-24

CLUSTER AND PANEL ILLUMINATION

71-2 — VLN04 VT-GY — 1 C2235

ANTI-LOCK BRAKE SYSTEM (ABS) MODULE
151-1 151-3

with brk boost

with ESP

EBP SW1 — C155 4 — CCB20 BU-WH — C135 16 — C210 11 — CCB20 BU-WH — C2235 3 — * 1

EBP SW4 — 7 — CCB23 VT-GN — 32 — 14 — CCB23 VT-GN — 4 — * 4

EBP SW2 — 5 — CCB21 GN-VT — 10 — 12 — CCB21 GN-VT — 8 — * 2

EBP SW5 — 8 — CCB24 WH-OG — 9 — 15 — CCB24 WH-OG — 6 — * 5

EBP SW3 — 6 — CCB22 WH-BN — 15 — 13 — CCB22 WH-BN — 7 — * 3

EBP SW6 — 9 — CCB25 BN — 31 — 16 — CCB25 BN — 5 — * 6

BOO — 18 — CCB08 VT-WH — 22-16 ELECTRONIC ENGINE CONTROLS - 2.7L

BPS — 16 — CES09 VT-OG — 22-16 ELECTRONIC ENGINE CONTROLS - 2.7L

LOW LEVEL BRAKE FLUID — 34 — CMC19 GY-VT — 2 C1052

LOW BRAKE FLUID WARNING INDICATOR SWITCH
151-3
1) Low fluid level
2) Normal level

1 C1052 — RMC19 YE-GY — 32

GND

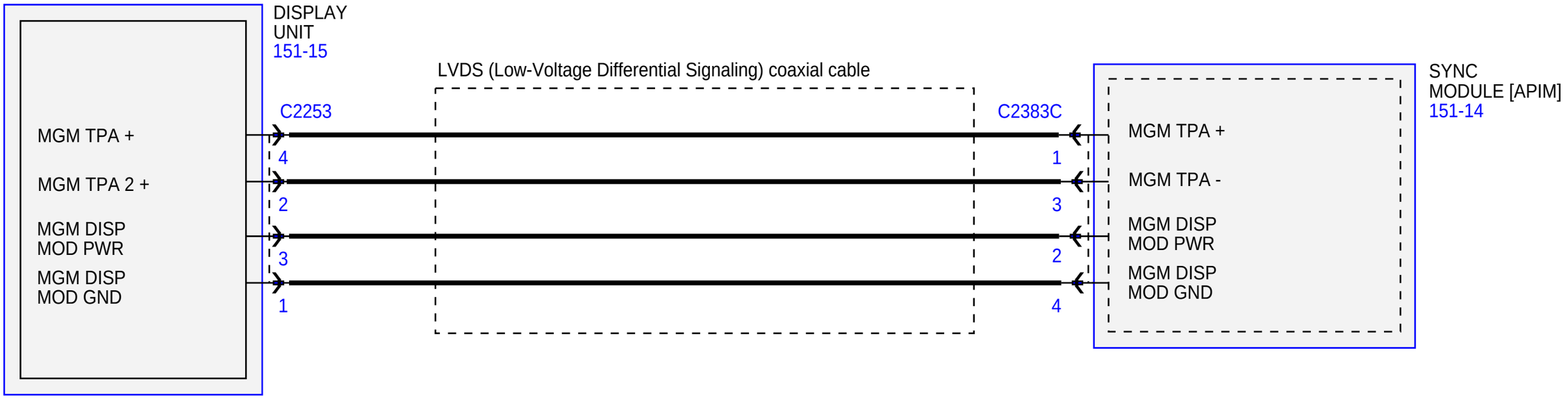
ELECTRONIC PARK BRAKE SWITCH
151-14
1) Brake applied
2) Brake released

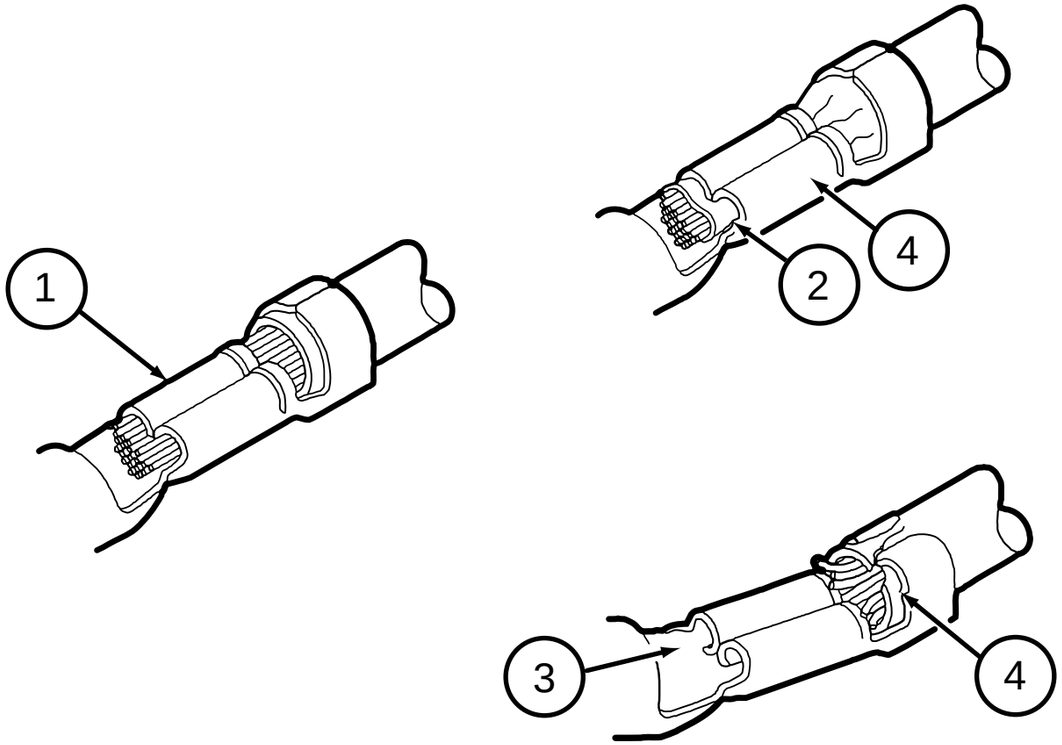
* SWITCH

LEDS

2 C2235 — GD214 BK-BU — G203 10-11

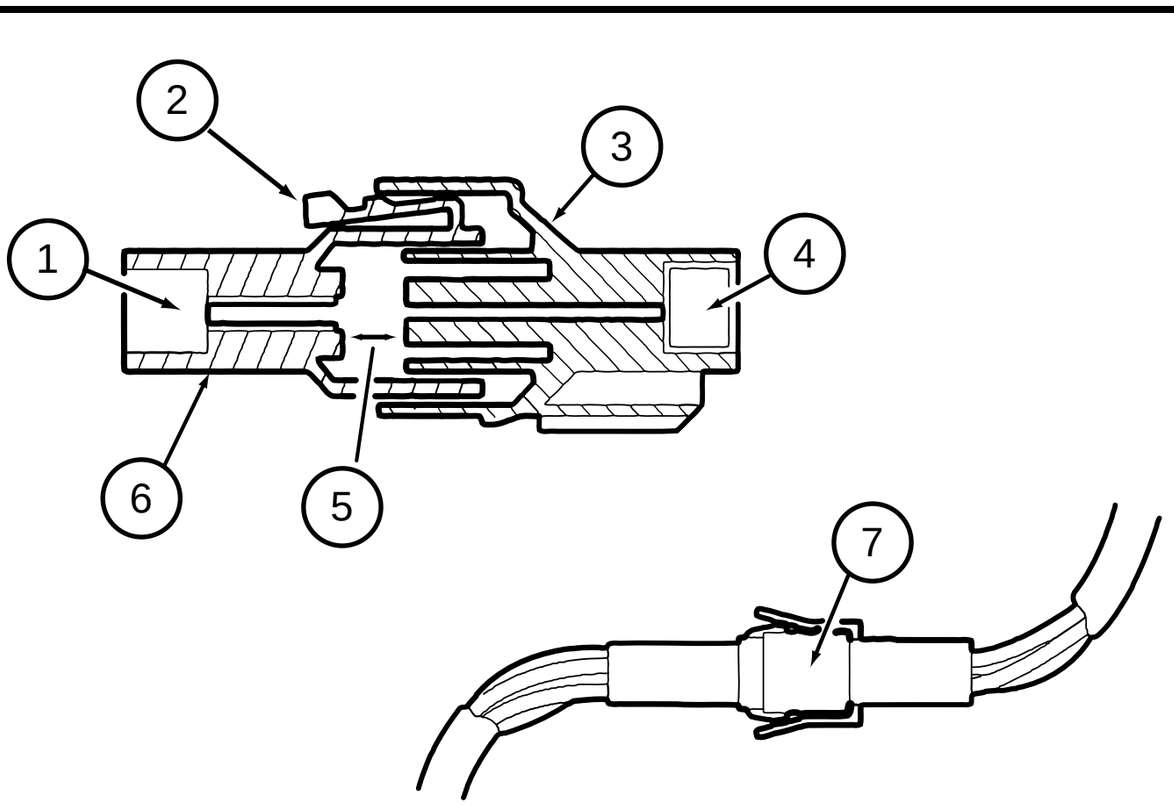
WITH 8 INCH DISPLAY





Defective insulation stripping

1 = Proper crimp
2 = Insulation not removed
3 = Wire strands missing
4 = Intermittent signals through pierced insulation

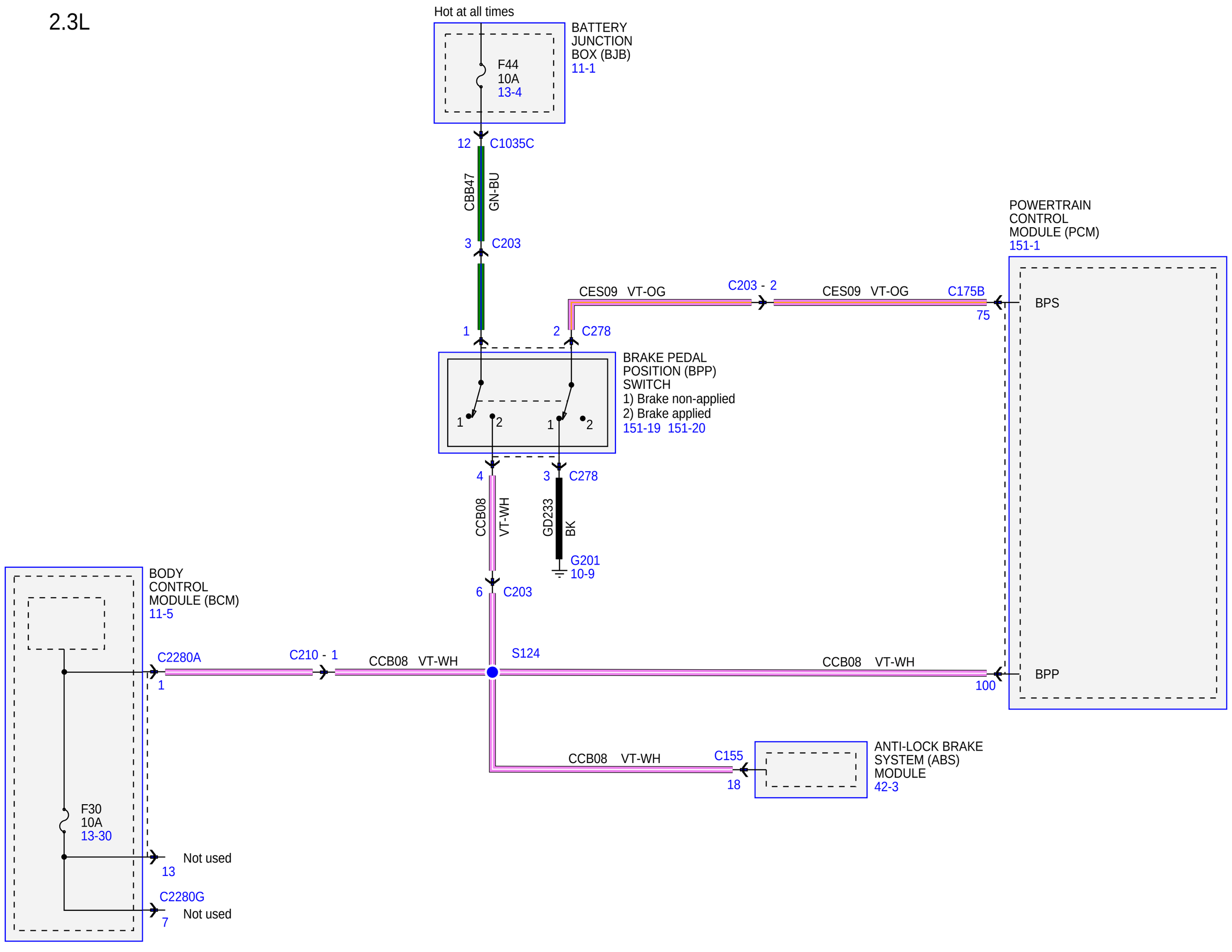


Partially mated connectors

1 = Seal
2 = Displaced tab
3 = Female half
4 = Seal
5 = Intermittent contact
6 = Male half
7 = Intermittent contact

Lock may be displaced into an unlocked position; pull on the connector to verify the lock.

2.3L


Hot at all times
BATTERY JUNCTION BOX (BJB)
11-1
F44
10A
13-4
12
C1035C
CBB47
GN-BU
3
C203
1
2
C278
CES09 VT-OG
C203 - 2
CES09 VT-OG
C175B
75
POWERTRAIN CONTROL MODULE (PCM)
151-1
BPS
BPP
100
BRAKE PEDAL POSITION (BPP) SWITCH
1) Brake non-applied
2) Brake applied
151-19 151-20
4
3
C278
CCB08
VT-WH
GD233
BK
G201
10-9
6
C203
BODY CONTROL MODULE (BCM)
11-5
C2280A
1
C210 - 1
CCB08 VT-WH
S124
CCB08 VT-WH
CCB08 VT-WH
C155
18
ANTI-LOCK BRAKE SYSTEM (ABS) MODULE
42-3
F30
10A
13-30
13
Not used
C2280G
7
Not used

POWERTRAIN CONTROL MODULE (PCM)
151-8

INJ1
INJ1RTN
INJ2
INJ2RTN
INJ3
INJ3RTN
INJ4
INJ4RTN
KSL1+
KSL1-
KSL2+
KSL2-
FVRC+
FVRC-

C175E
87 CE205 GN-BU
86 RE205 YE-BU
65 CE206 GY-YE
64 RE206 BU-OG
44 CE207 VT-GY
43 RE207 GN-VT
108 CE208 YE-OG
107 RE208 BU
27 VE801 VT-OG
48 RE323 WH-BN
28 VE802 BN-BU
49 RE324 BN-GN
85 CE226 YE-VT
106 RE226 GN-VT

C1033
1 CE205 GN-BU
9 RE205 YE-BU
4 CE206 GY-YE
12 RE206 BU-OG
5 CE207 VT-GY
13 RE207 GN-VT
6 CE208 YE-OG
14 RE208 BU
3 VE801 VT-OG
2 RE323 WH-BN
8 VE802 BN-BU
7 RE324 BN-GN

FUEL INJECTOR 1
151-7
C181 2 CE205 GN-BU
C181 1 RE205 YE-BU

FUEL INJECTOR 2
151-7
C182 2 CE206 GY-YE
C182 1 RE206 BU-OG

FUEL INJECTOR 3
151-7
C183 2 CE207 VT-GY
C183 1 RE207 GN-VT

FUEL INJECTOR 4
151-7
C184 2 CE208 YE-OG
C184 1 RE208 BU

C109 2 VE801 VT-OG
1 RE323 WH-BN
TN
BK
KNOCK SENSOR 1 (KS1)
151-7

C1615 2 VE802 BN-BU
1 RE324 BN-GN
TN
BK
KNOCK SENSOR 2 (KS2)
151-7

FUEL METERING VALVE
151-8
C1139 2 CE226 YE-VT
C1139 1 RE226 GN-VT

22-14 ELECTRONIC ENGINE CONTROLS

D

CBK01 BU

POWERTRAIN CONTROL MODULE (PCM) 151-9

CBK01 BU

CBK01 BU C1222 3

CBK01 BU S164

CBK01 BU C1551E 46

VPWR FUEL

FUEL INJECTOR 1B 151-10

S171 CBK01 BU C1901 2

C1901 1 CE262 GN

CE262 GN 4

CE262 GN 101

INJ1

FUEL INJECTOR 2B 151-10

CBK01 BU C1902 2

C1902 1 CE263 BU-GN

CE263 BU-GN 2

CE263 BU-GN 126

INJ2

FUEL INJECTOR 3B 151-10

4 C1148

CBK01 BU C1903 2

C1903 1 CE264 YE-VT

CE264 YE-VT 1

CE264 YE-VT 125

INJ3

CBK01 BU

FUEL INJECTOR 4B 151-10

S170 CBK01 BU C1904 2

C1904 1 CE265 WH

C1148 3 CE265 WH

CE265 WH 84

INJ4

FUEL INJECTOR 5B 151-10

CBK01 BU C1905 2

C1905 1 CE266 VT-GN

CE266 VT-GN 2

CE266 VT-GN 121

INJ5

FUEL INJECTOR 6B 151-10

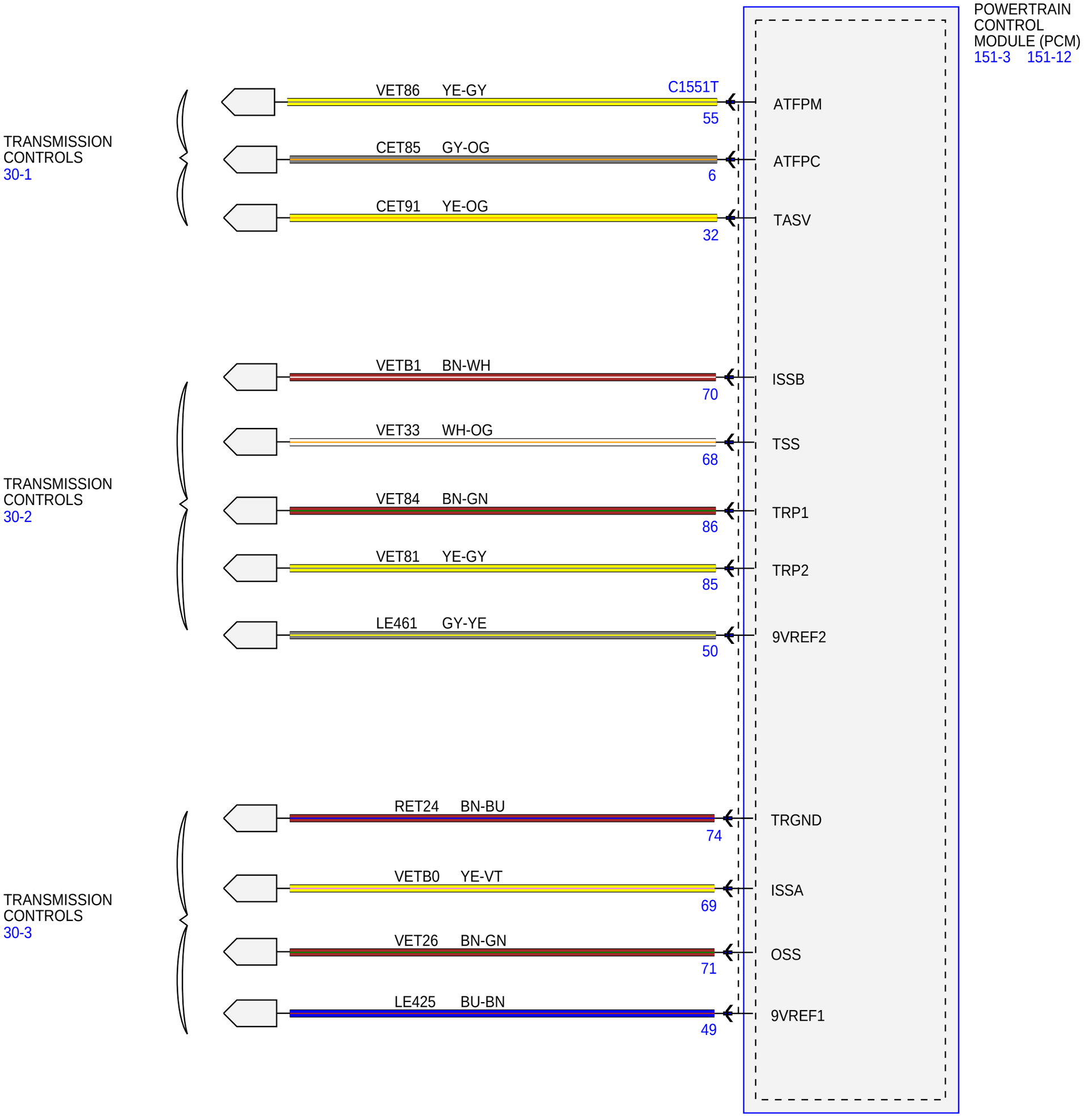
CBK01 BU C1906 2

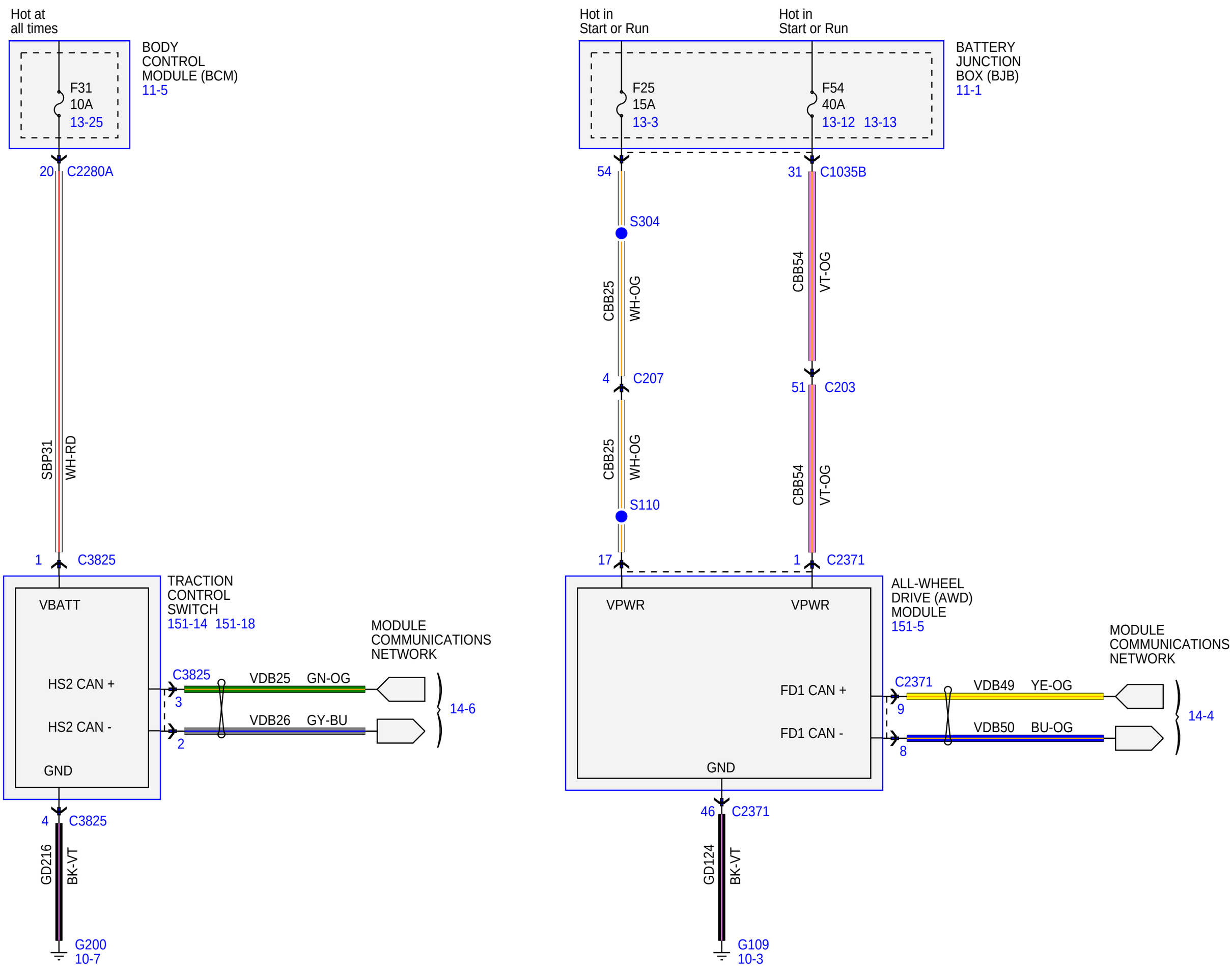
C1906 1 CE267 BU-GY

CE267 BU-GY 1

CE267 BU-GY 122

INJ6


POWERTRAIN CONTROL MODULE (PCM)
151-3 151-12
TRANSMISSION CONTROLS
30-1
VET86 YE-GY
C1551T
55
ATFPM
CET85 GY-OG
6
ATFPC
CET91 YE-OG
32
TASV
TRANSMISSION CONTROLS
30-2
VETB1 BN-WH
70
ISSB
VET33 WH-OG
68
TSS
VET84 BN-GN
86
TRP1
VET81 YE-GY
85
TRP2
LE461 GY-YE
50
9VREF2
TRANSMISSION CONTROLS
30-3
RET24 BN-BU
74
TRGND
VETB0 YE-VT
69
ISSA
VET26 BN-GN
71
OSS
LE425 BU-BN
49
9VREF1


Hot at all times
BODY CONTROL MODULE (BCM)
11-5
F31
10A
13-25
20
C2280A
SBP31
WH-RD
1
C3825
TRACTION CONTROL SWITCH
151-14 151-18
VBATT
HS2 CAN +
HS2 CAN -
GND
C3825
3
2
VDB25 GN-OG
VDB26 GY-BU
MODULE COMMUNICATIONS NETWORK
14-6
4
C3825
GD216
BK-VT
G200
10-7
Hot in Start or Run
Hot in Start or Run
BATTERY JUNCTION BOX (BJB)
11-1
F25
15A
13-3
F54
40A
13-12 13-13
54
S304
CBB25
WH-OG
4
C207
CBB25
WH-OG
S110
17
31
C1035B
CBB54
VT-OG
51
C203
CBB54
VT-OG
1
C2371
ALL-WHEEL DRIVE (AWD) MODULE
151-5
VPWR
VPWR
FD1 CAN +
FD1 CAN -
GND
C2371
9
8
VDB49 YE-OG
VDB50 BU-OG
MODULE COMMUNICATIONS NETWORK
14-4
46
C2371
GD124
BK-VT
G109
10-3

With headlamp relay energized

BATTERY JUNCTION BOX (BJB) 11-1

F101 20A 13-14

47 C1035B

CBBA1 BU-GY

Hot at all times

BODY CONTROL MODULE (BCM) 11-5

RP2 BUS

RF LO BEAM (FET)

RF DRL LPS (FET)

RF LED TURN OUTAGE

RF POS LPS (FET)

RF TURN LAMPS (FET)

2 C2280G

CLF05 BU-GN

15

VDN14 YE-VT

36

CLF62 VT-WH

17

CLS58 BU-WH

37

CLS07 BN-YE

38 C2280F

CLS25 YE-VT

49

CBBA1 BU-GY

8

46

CLF05 BU-GN

1

29

VDN14 YE-VT

S130

VDN14 YE-VT

5

30

CLF62 VT-WH

7

21

CLS58 BU-WH

4

28

CLS07 BN-YE

9

32 C203

CLS25 YE-VT

2 C1041

PWR

LO BEAM

LIN BCM

DRL

TURN OUTAGE

PARK

TURN

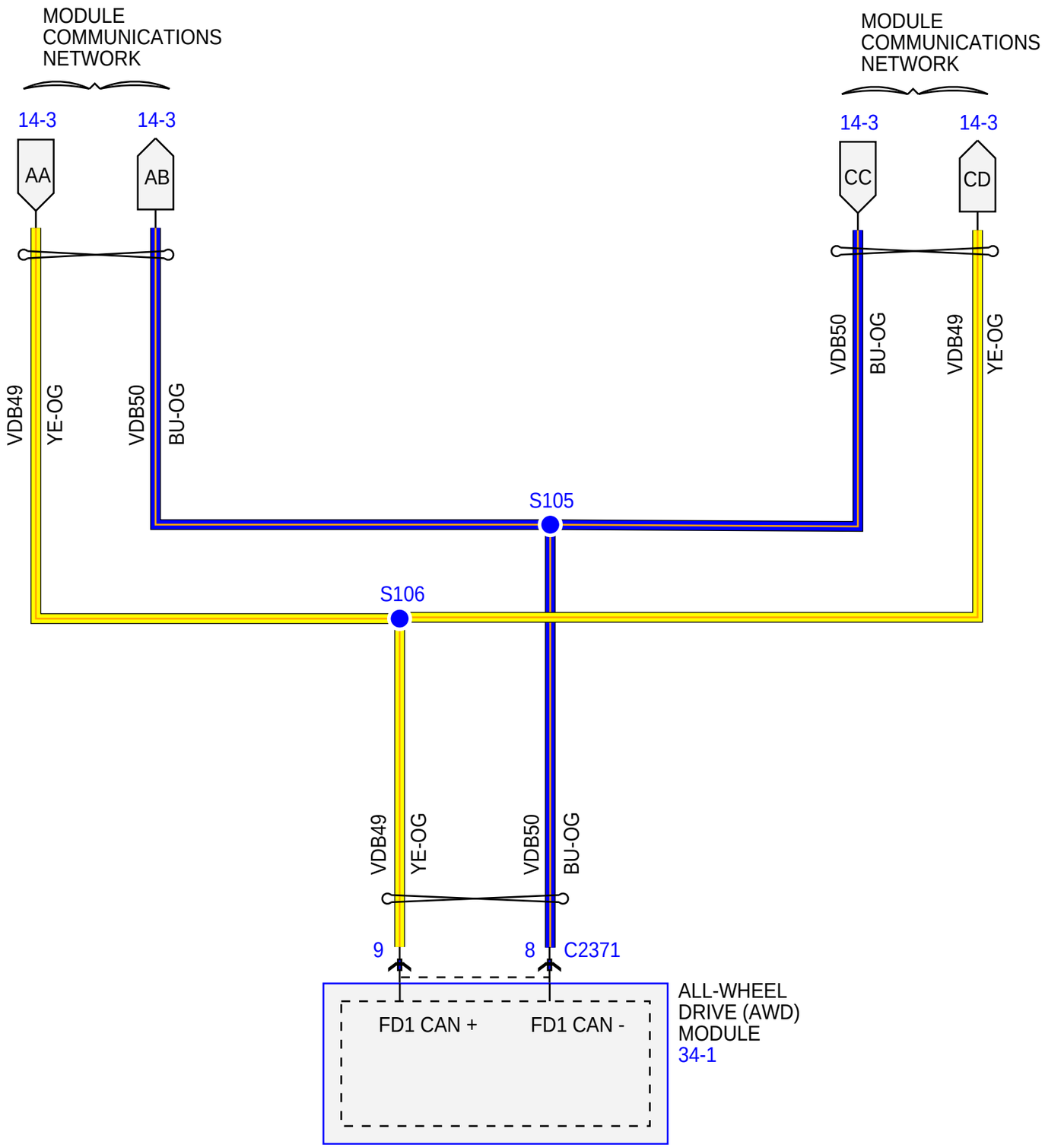
HEADLAMP ASSEMBLY RH 151-4

GND

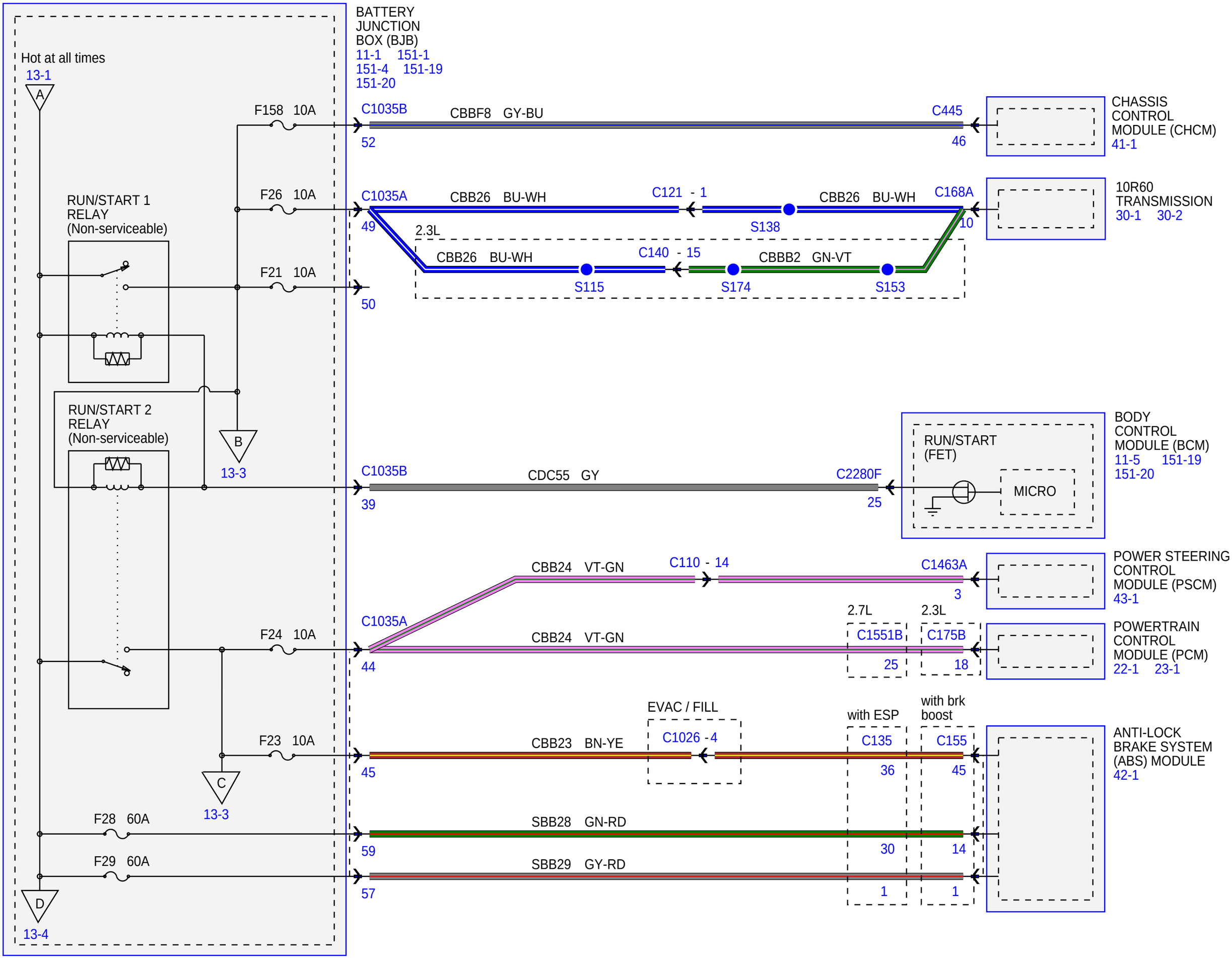
10 C1041

GD123 BK-GY

G108 10-3


MODULE
COMMUNICATIONS
NETWORK
14-3
AA
14-3
AB
MODULE
COMMUNICATIONS
NETWORK
14-3
CC
14-3
CD
VDB49
YE-OG
VDB50
BU-OG
VDB50
BU-OG
VDB49
YE-OG
S105
S106
VDB49
YE-OG
VDB50
BU-OG
9
8
C2371
FD1 CAN +
FD1 CAN -
ALL-WHEEL
DRIVE (AWD)
MODULE
34-1

F21, F23, F24, F26, F28, F29, F158



Hot at all times
13-19
V
REV LAMP (FET)
RP2 BUS
MICRO
REAR FOG LPS (FET)
MICRO
RF TURN LPS (FET)
MICRO
LF LO BEAM (FET)
MICRO
LF DRL LPS (FET)
MICRO
RF LO BEAM (FET)
MICRO
RF DRL LPS (FET)
MICRO
AC
13-28

BODY CONTROL MODULE (BCM)
11-5 151-1
151-19 151-20

C2280C CLS10 GN-BN
11
S311

POWER DISTRIBUTION/BCM
AB 13-14
CLS10 GN-BN

CLS10 GN-BN C410 - 2 CLS10 GN-BN C414
4
REAR LAMP ASSEMBLY LH
92-3 92-4
93-1

CLS10 GN-BN C411 - 2 CLS10 GN-BN C415
4
REAR LAMP ASSEMBLY RH
92-3 92-5
93-1

CLS10 GN-BN C200 - 16 C212 - 2 CLS10 GN-BN C911
9
AUTO-DIMMING INTERIOR MIRROR
124-4

C2280C CLS37 WH-BU C410 - 11 CLS37 WH-BU C424 - 3 CLS37 WH-BU C436
25
1
REAR FOG LAMP
86-2

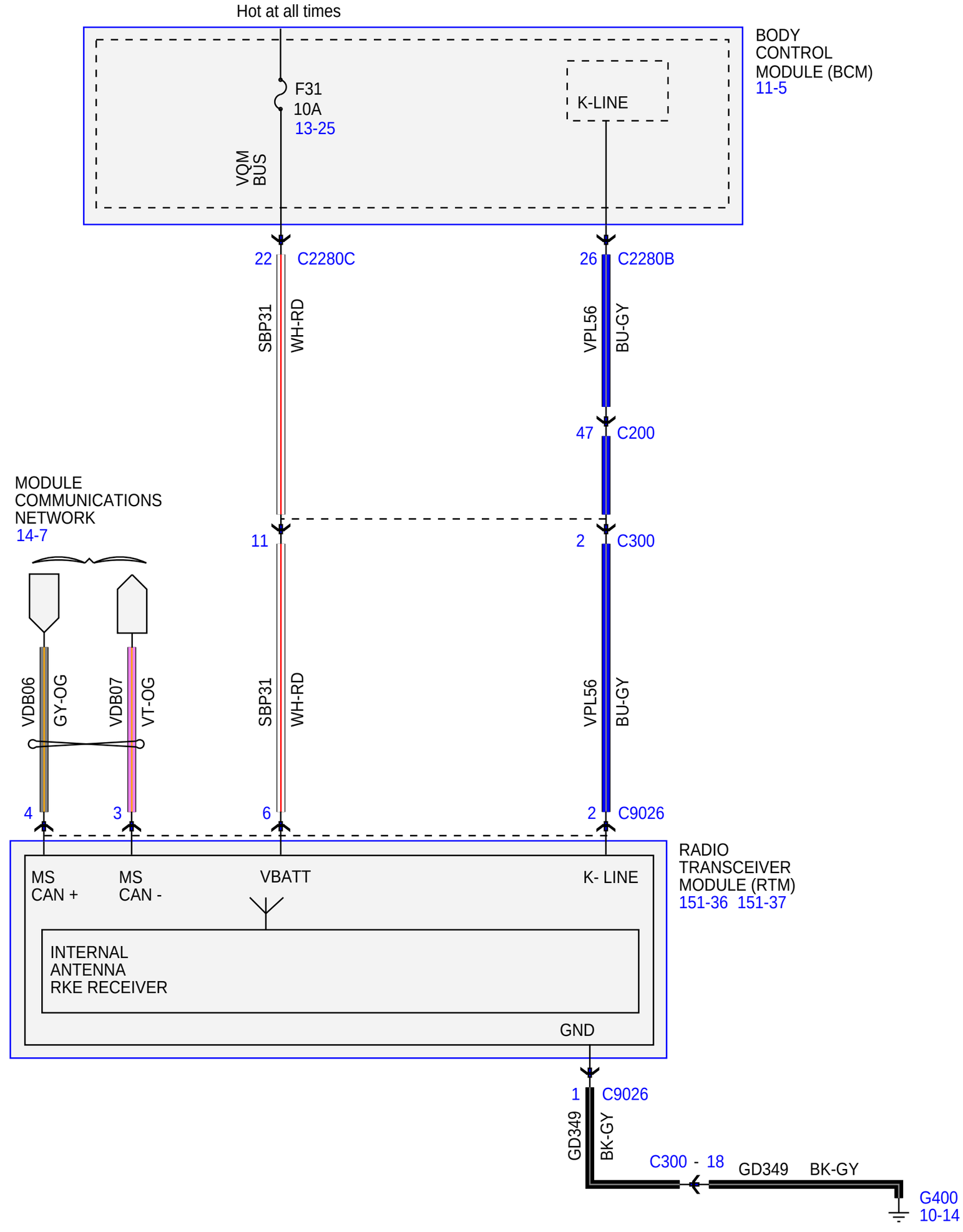
C2280F CLS25 YE-VT C203 CLS25 YE-VT C1041
38
32
2
HEADLAMP ASSEMBLY RH
85-4 90-3

C2280G CLF04 BN-BU
4
47
CLF04 BN-BU C1021
1
HEADLAMP ASSEMBLY LH
85-3

C2280F CLF61 GY-BU
40
17
CLF61 GY-BU
7

C2280G CLF05 BU-GN
2
46
CLF05 BU-GN C1041
1
HEADLAMP ASSEMBLY RH
85-4

C2280F CLF62 VT-WH
36
30
CLF62 VT-WH
7


Hot at all times
BODY CONTROL MODULE (BCM)
11-5
F31
10A
13-25
VQM BUS
K-LINE
22 C2280C
SBP31
WH-RD
26 C2280B
VPL56
BU-GY
47 C200
MODULE COMMUNICATIONS NETWORK
14-7
11
SBP31
WH-RD
2 C300
VPL56
BU-GY
VDB06
GY-OG
VDB07
VT-OG
4
3
6
2 C9026
RADIO TRANSCEIVER MODULE (RTM)
151-36 151-37
MS CAN +
MS CAN -
VBATT
K- LINE
INTERNAL ANTENNA RKE RECEIVER
GND
1 C9026
GD349
BK-GY
C300 - 18
GD349
BK-GY
G400
10-14