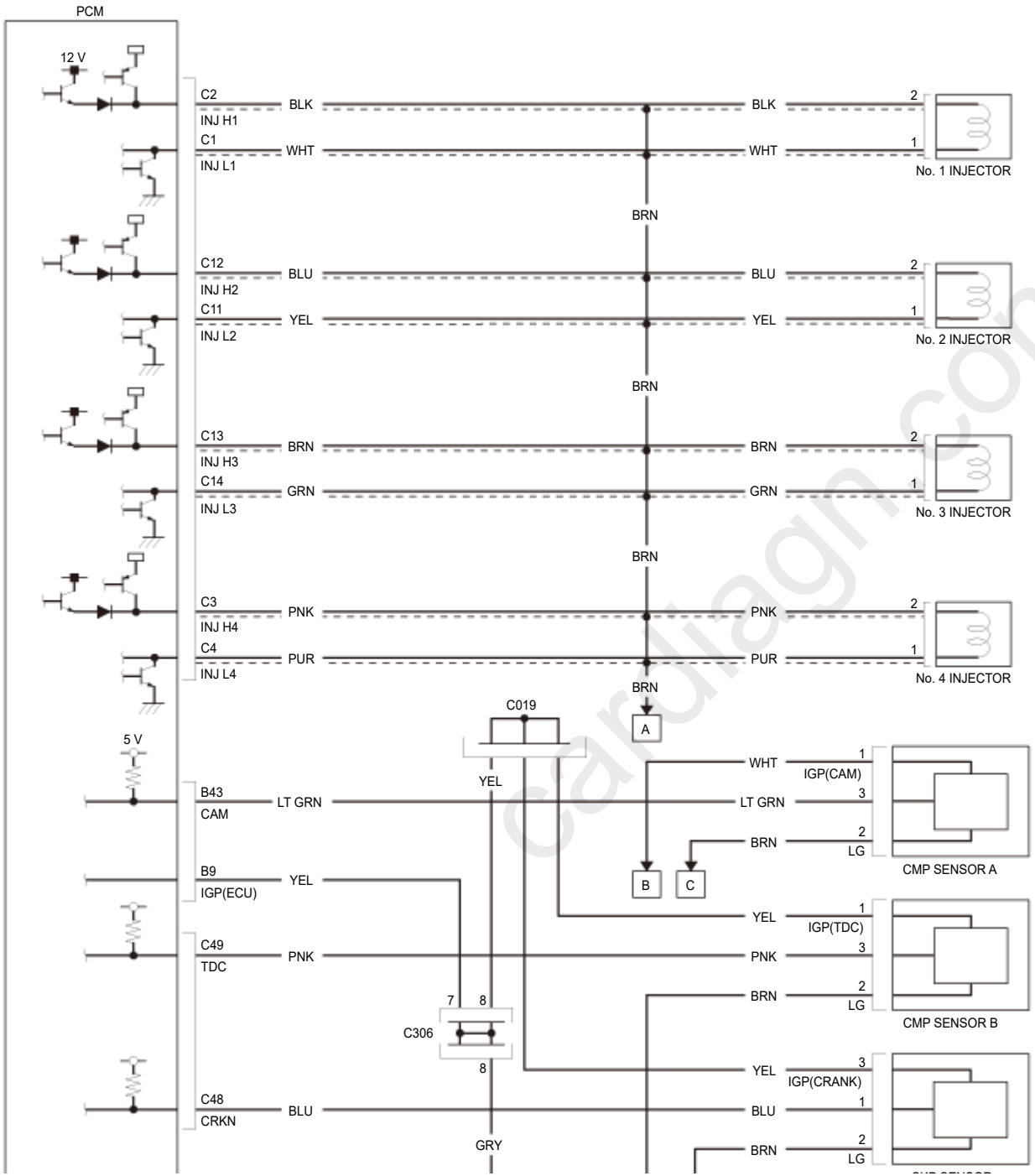
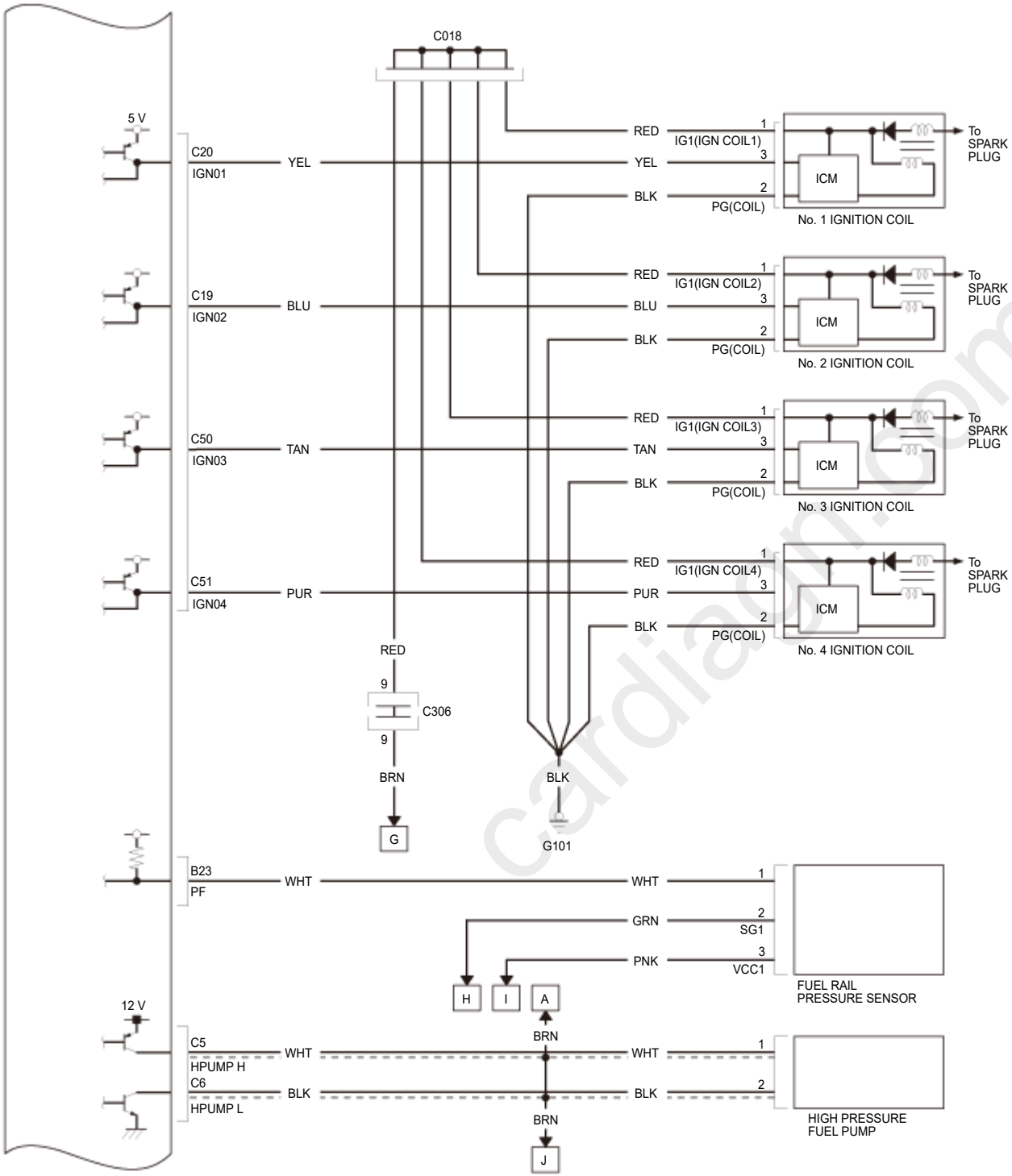
Fuel and Emissions Systems Circuit Diagram



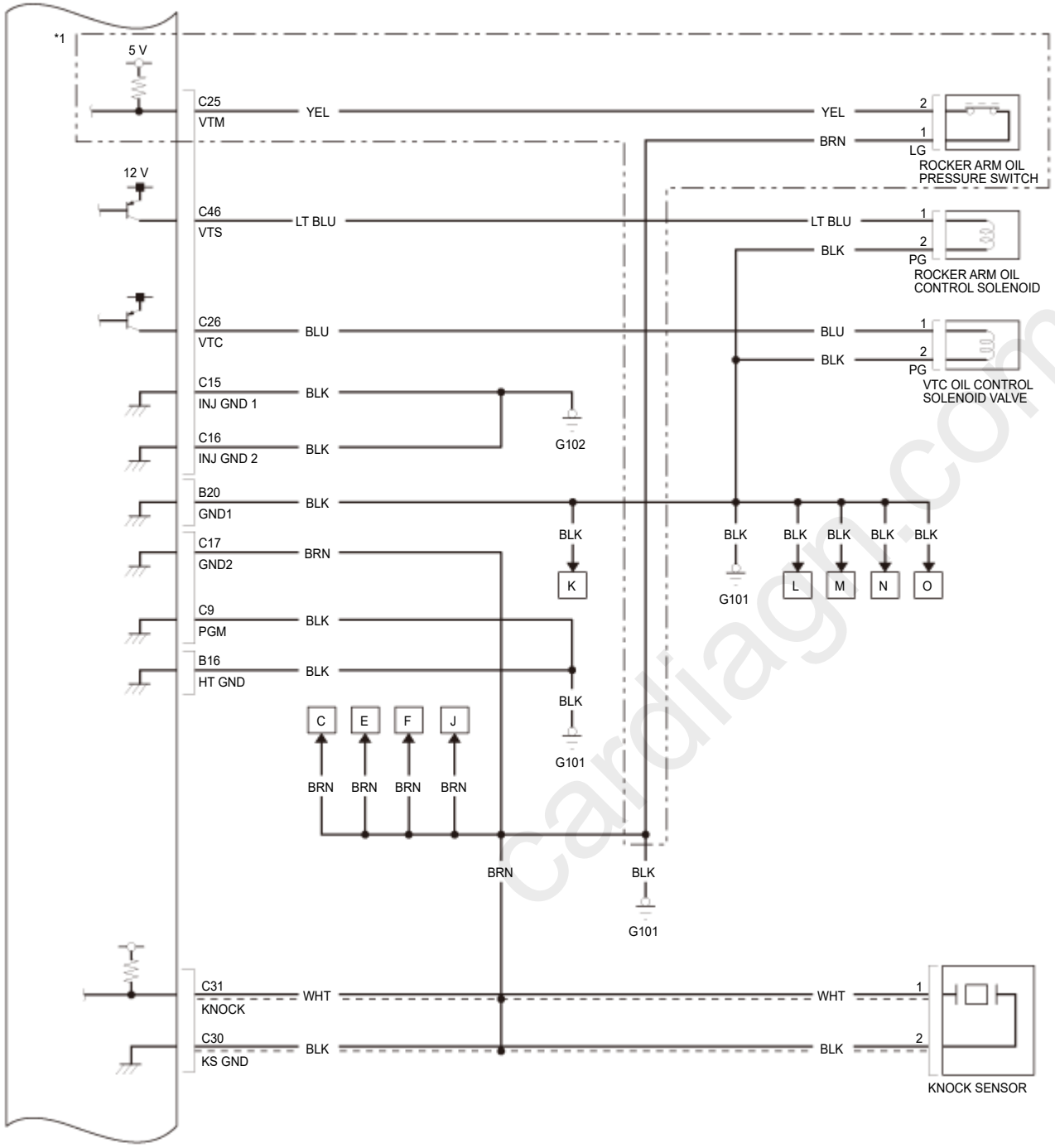


CKP SENSOR

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C018
5 V
C20
IGN01
YEL
C19
IGN02
BLU
C50
IGN03
TAN
C51
IGN04
PUR
RED
YEL
BLK
BLU
TAN
PUR
IG1(IGN COIL1)
IG1(IGN COIL2)
IG1(IGN COIL3)
IG1(IGN COIL4)
PG(COIL)
ICM
No. 1 IGNITION COIL
No. 2 IGNITION COIL
No. 3 IGNITION COIL
No. 4 IGNITION COIL
To SPARK PLUG
C306
G
G101
B23
PF
WHT
GRN
PNK
SG1
VCC1
FUEL RAIL PRESSURE SENSOR
H
I
A
12 V
C5
HPUMP H
C6
HPUMP L
BRN
J
HIGH PRESSURE FUEL PUMP

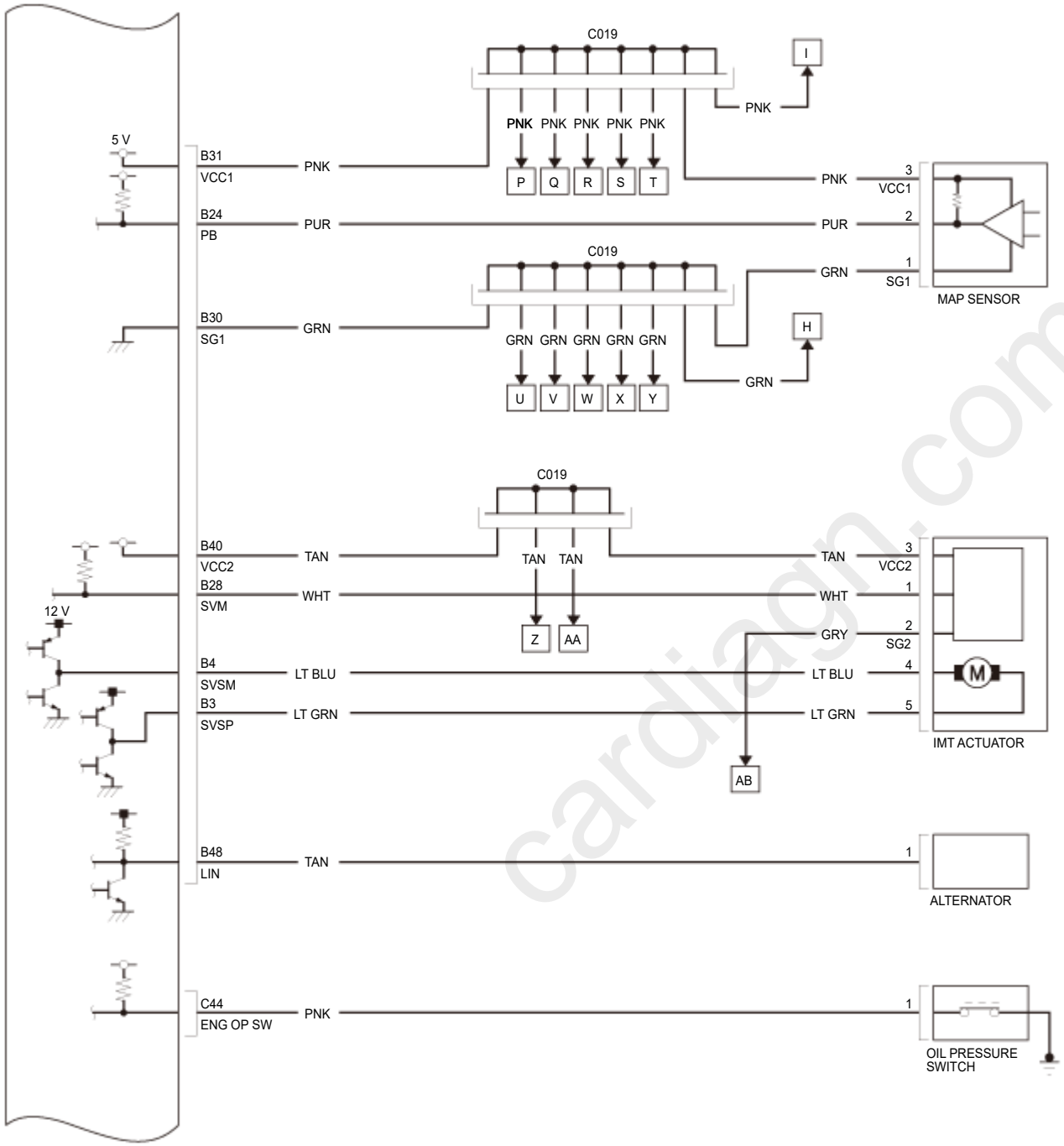
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*1: USA and Canada models

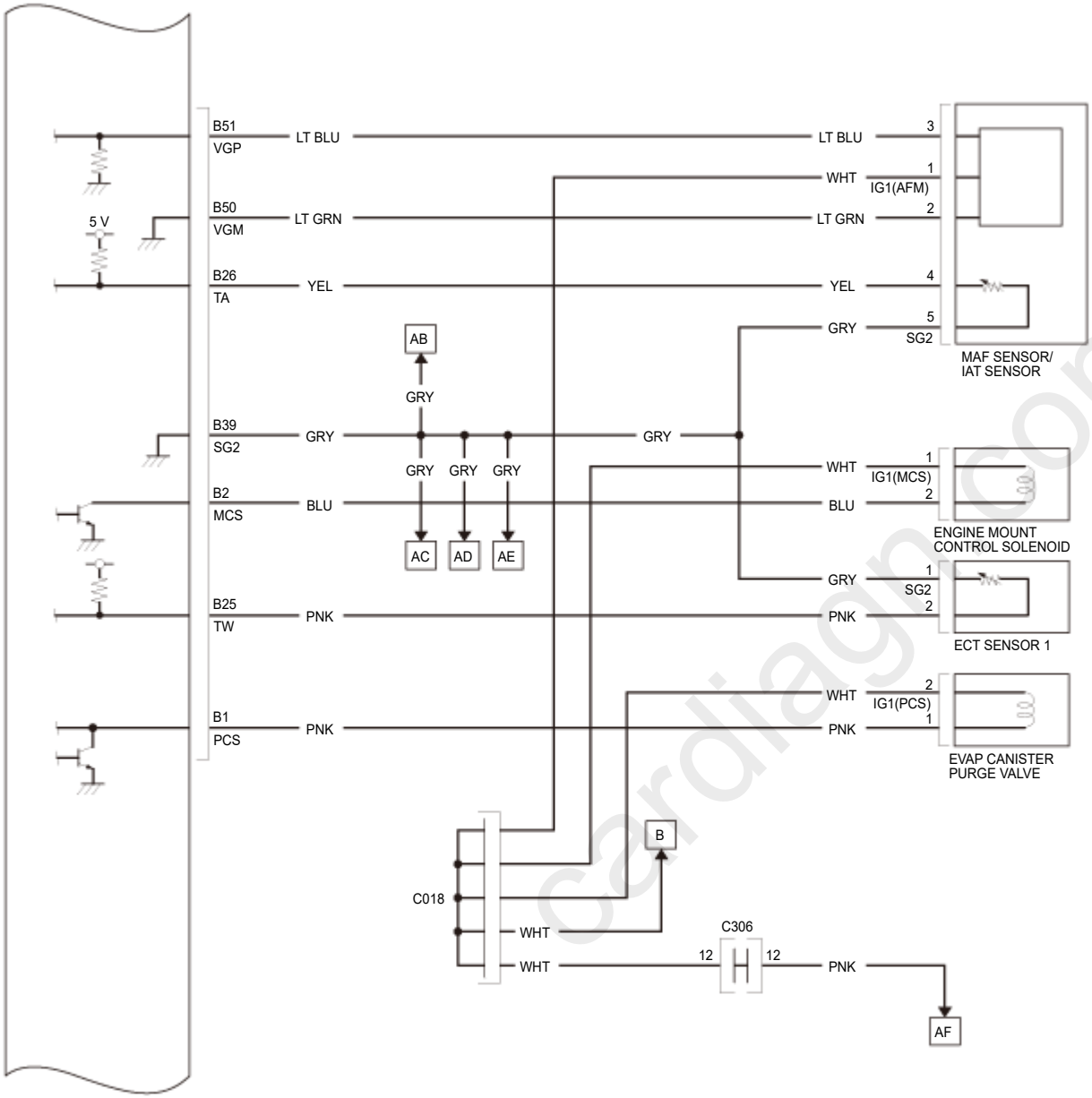
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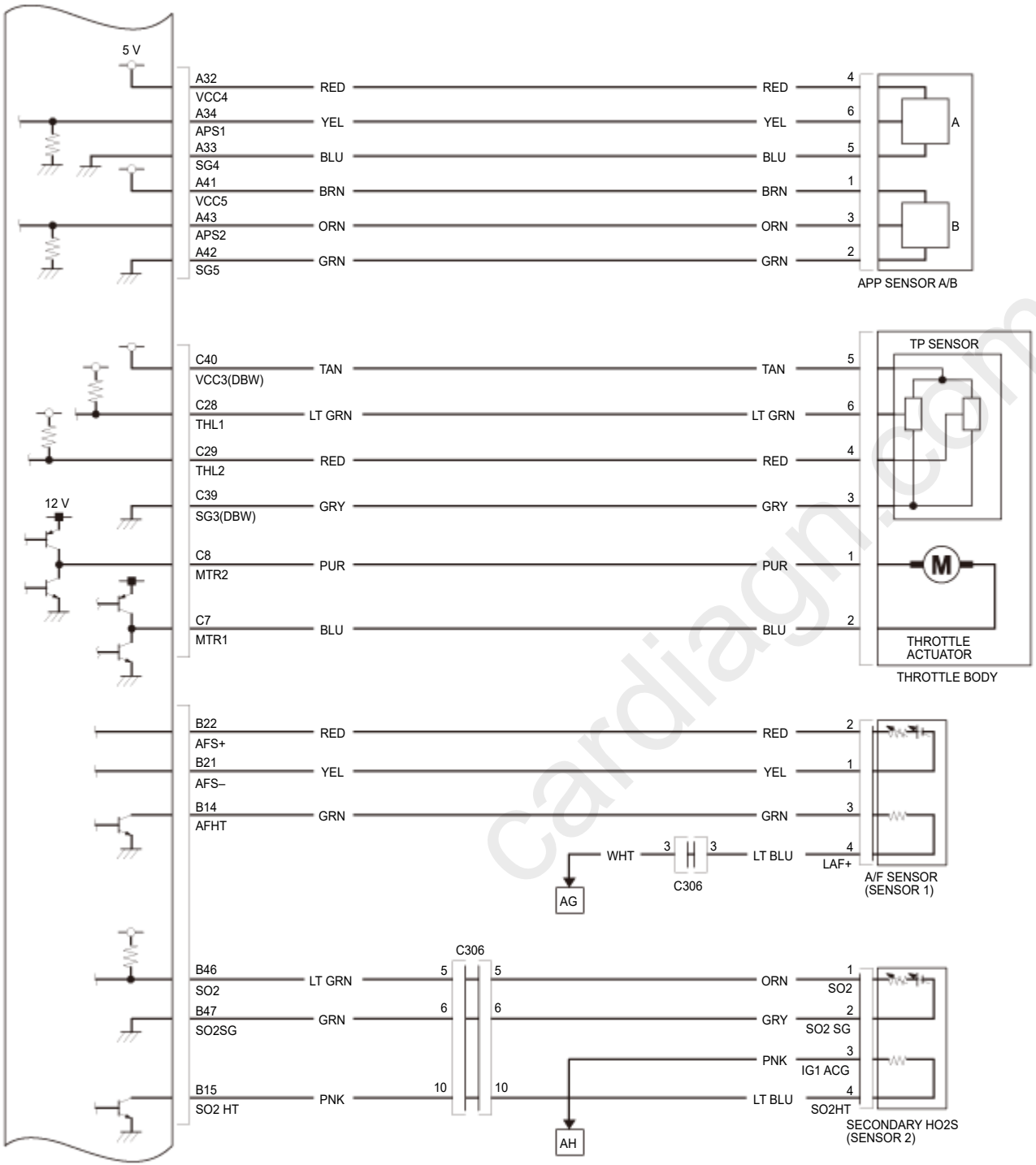
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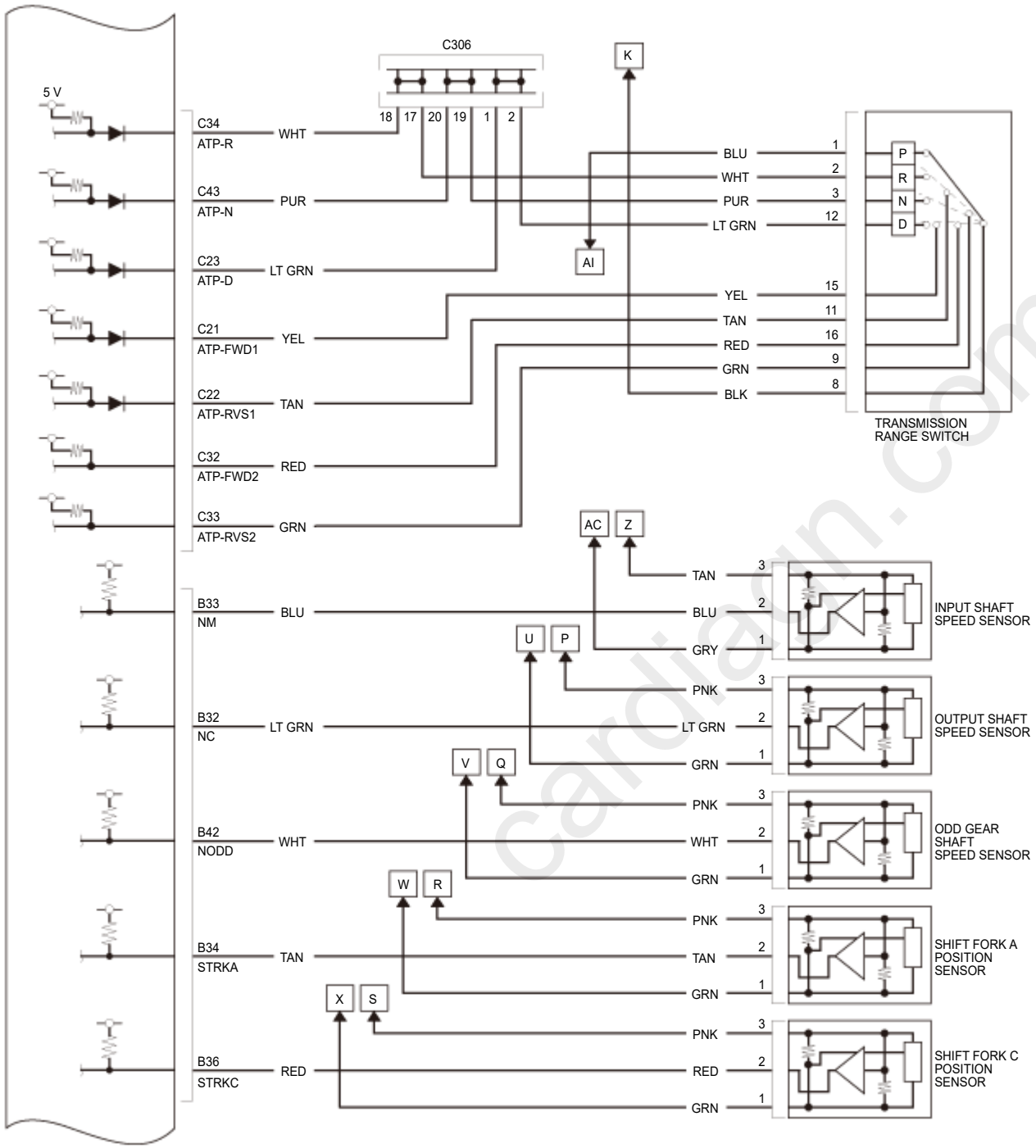
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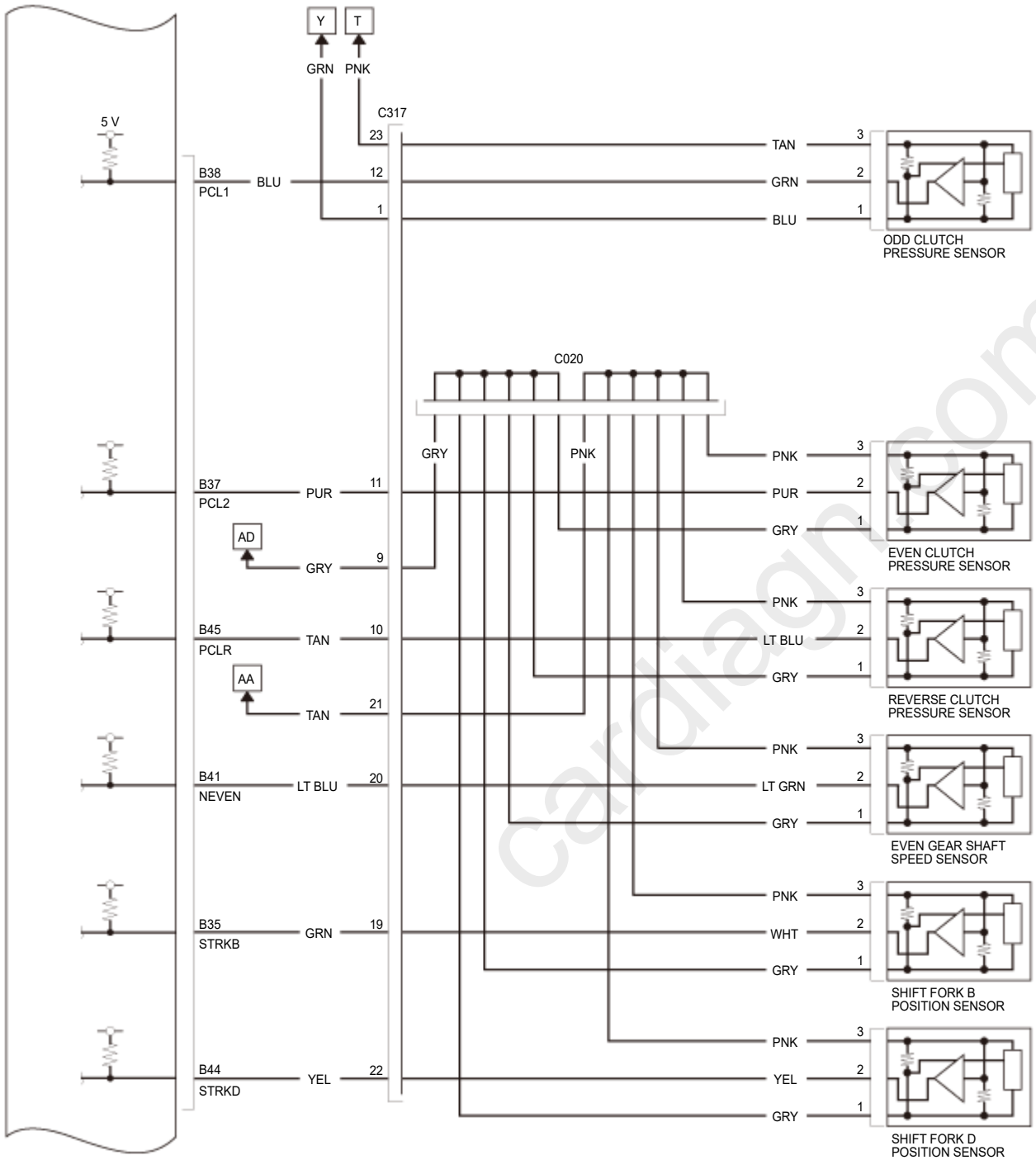


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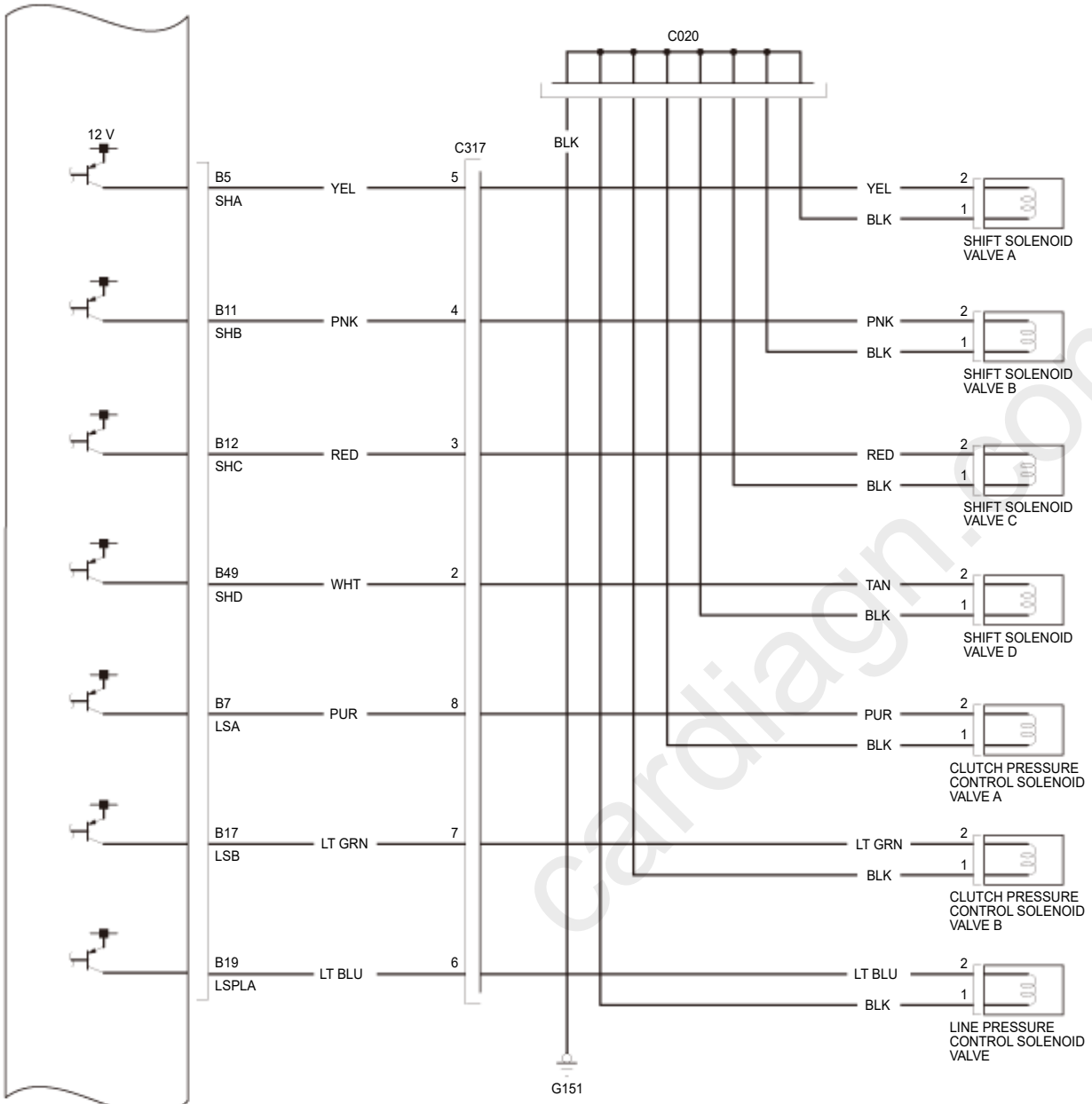
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C306
18 17 20 19 1 2
5 V
C34
ATP-R
WHT
C43
ATP-N
PUR
C23
ATP-D
LT GRN
C21
ATP-FWD1
YEL
C22
ATP-RVS1
TAN
C32
ATP-FWD2
RED
C33
ATP-RVS2
GRN
K
AI
BLU 1
WHT 2
PUR 3
LT GRN 12
YEL 15
TAN 11
RED 16
GRN 9
BLK 8
P
R
N
D
TRANSMISSION
RANGE SWITCH
AC
Z
U
P
V
Q
W
R
X
S
B33
NM
BLU
B32
NC
LT GRN
B42
NODD
WHT
B34
STRKA
TAN
B36
STRKC
RED
TAN 3
BLU 2
GRY 1
INPUT SHAFT
SPEED SENSOR
PNK 3
LT GRN 2
GRN 1
OUTPUT SHAFT
SPEED SENSOR
PNK 3
WHT 2
GRN 1
ODD GEAR
SHAFT
SPEED SENSOR
PNK 3
TAN 2
GRN 1
SHIFT FORK A
POSITION
SENSOR
PNK 3
RED 2
GRN 1
SHIFT FORK C
POSITION
SENSOR

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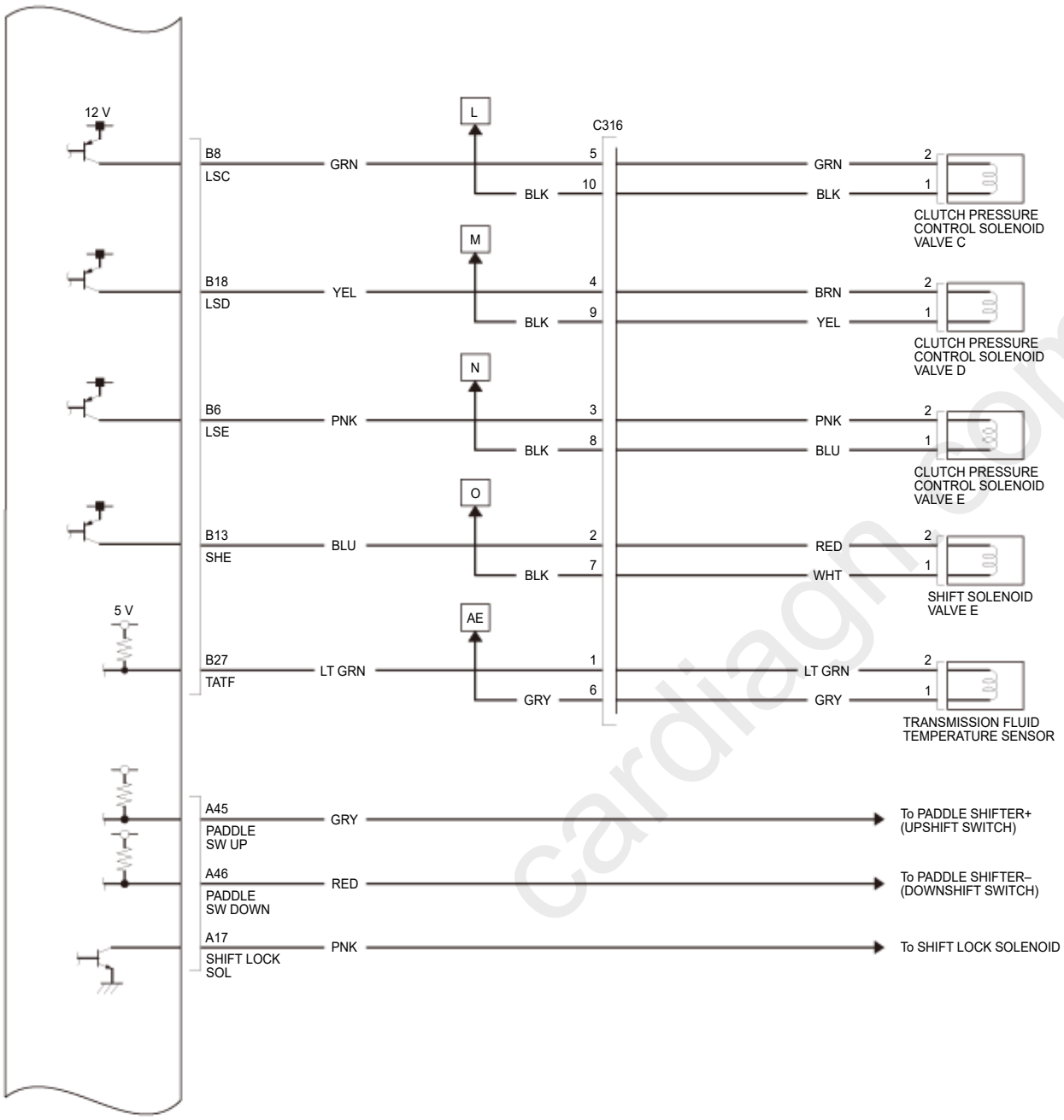

Y
T
GRN
PNK
C317
5 V
B38
PCL1
BLU
23
12
1
TAN
GRN
BLU
3
2
1
ODD CLUTCH
PRESSURE SENSOR
C020
GRY
PNK
B37
PCL2
PUR
11
AD
GRY
9
PNK
PUR
GRY
EVEN CLUTCH
PRESSURE SENSOR
B45
PCLR
TAN
10
AA
TAN
21
PNK
LT BLU
GRY
REVERSE CLUTCH
PRESSURE SENSOR
B41
NEVEN
LT BLU
20
PNK
LT GRN
GRY
EVEN GEAR SHAFT
SPEED SENSOR
B35
STRKB
GRN
19
PNK
WHT
GRY
SHIFT FORK B
POSITION SENSOR
B44
STRKD
YEL
22
PNK
YEL
GRY
SHIFT FORK D
POSITION SENSOR

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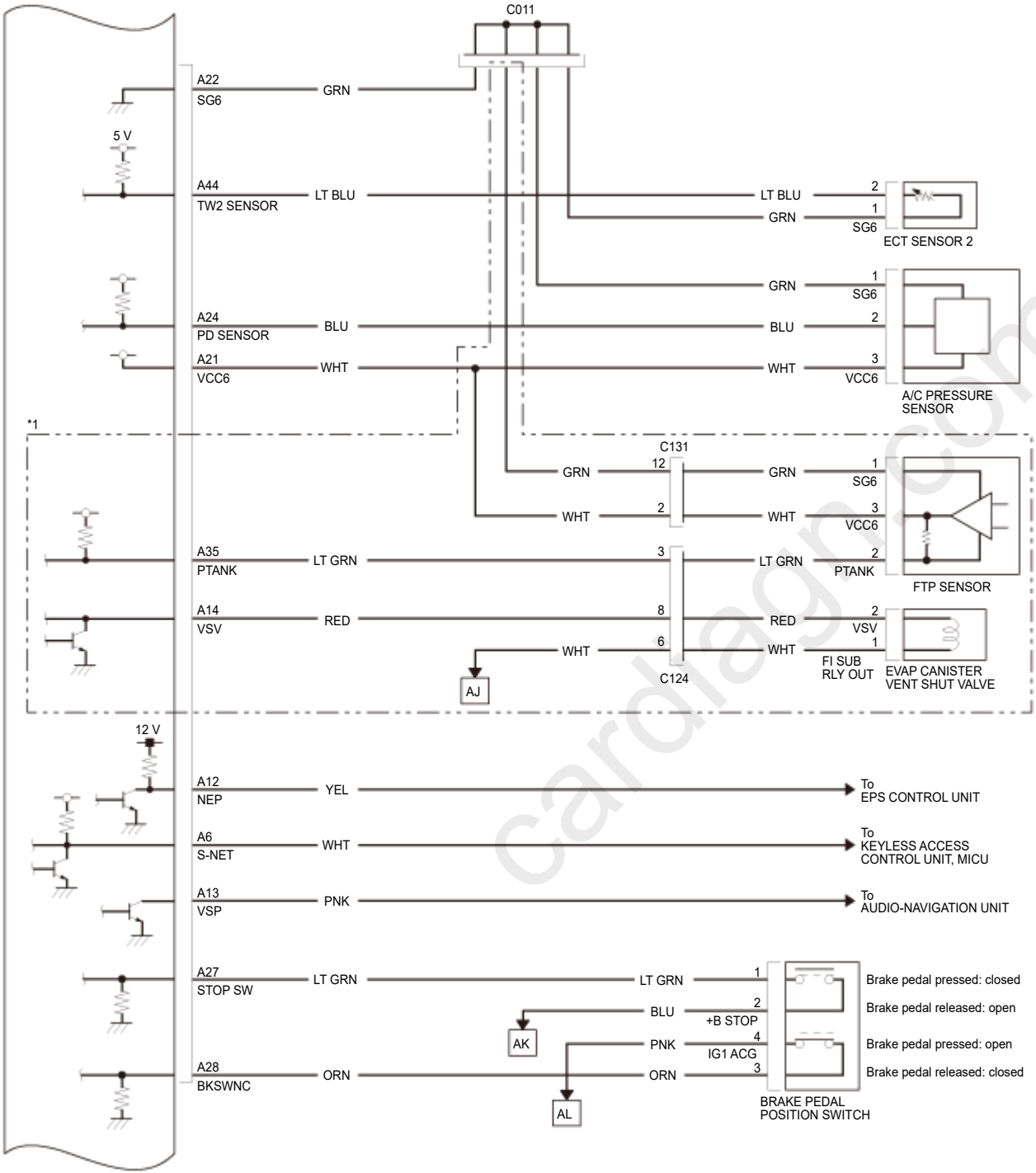


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12 V
B8
LSC
GRN
L
5
BLK
10
C316
GRN
2
BLK
1
CLUTCH PRESSURE CONTROL SOLENOID VALVE C
M
B18
LSD
YEL
4
BLK
9
BRN
2
YEL
1
CLUTCH PRESSURE CONTROL SOLENOID VALVE D
N
B6
LSE
PNK
3
BLK
8
PNK
2
BLU
1
CLUTCH PRESSURE CONTROL SOLENOID VALVE E
O
B13
SHE
BLU
2
BLK
7
RED
2
WHT
1
SHIFT SOLENOID VALVE E
5 V
AE
B27
TATF
LT GRN
1
GRY
6
LT GRN
2
GRY
1
TRANSMISSION FLUID TEMPERATURE SENSOR
A45
PADDLE SW UP
GRY
To PADDLE SHIFTER+ (UPSHIFT SWITCH)
A46
PADDLE SW DOWN
RED
To PADDLE SHIFTER– (DOWNSHIFT SWITCH)
A17
SHIFT LOCK SOL
PNK
To SHIFT LOCK SOLENOID

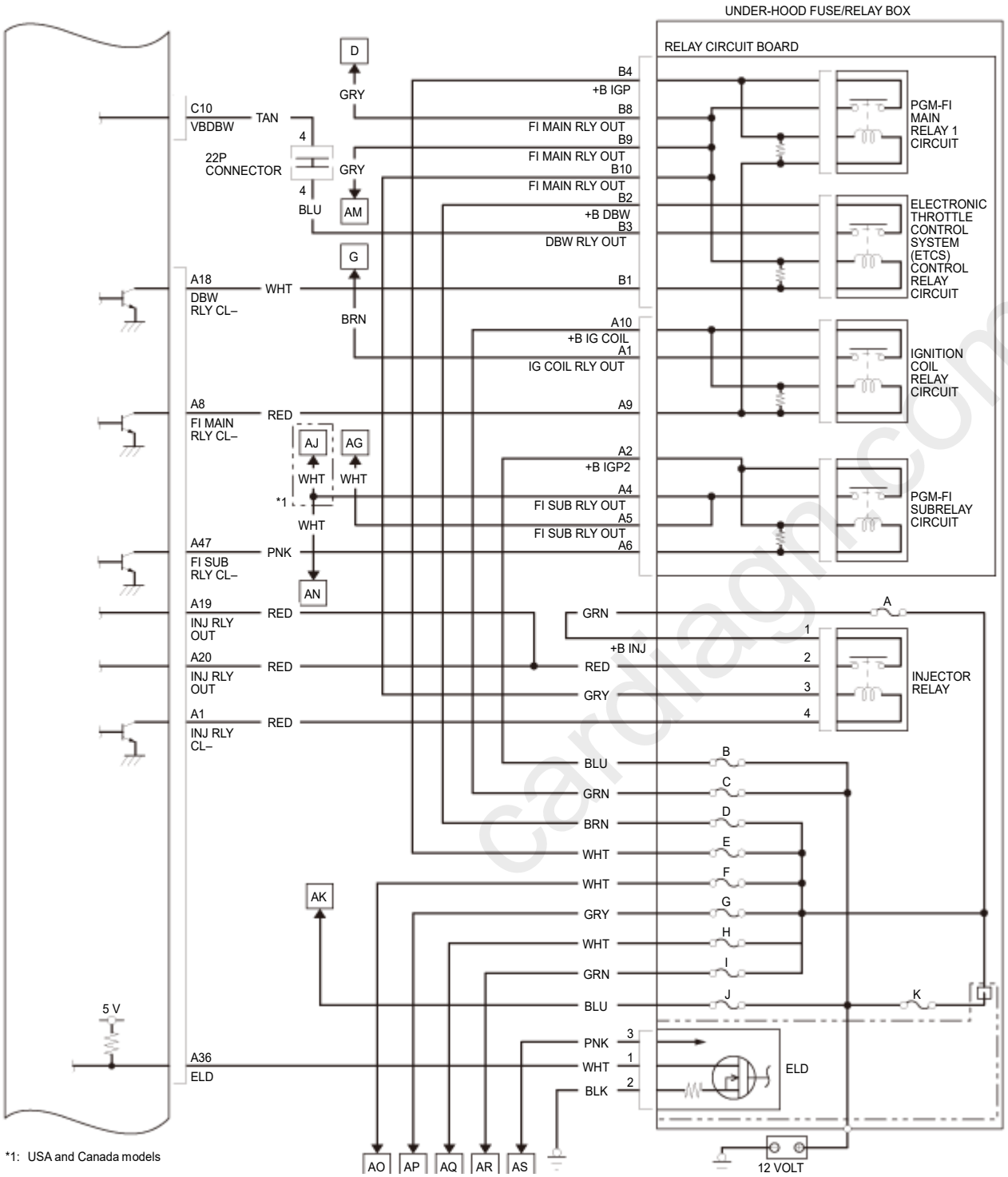
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*1: USA and Canada models

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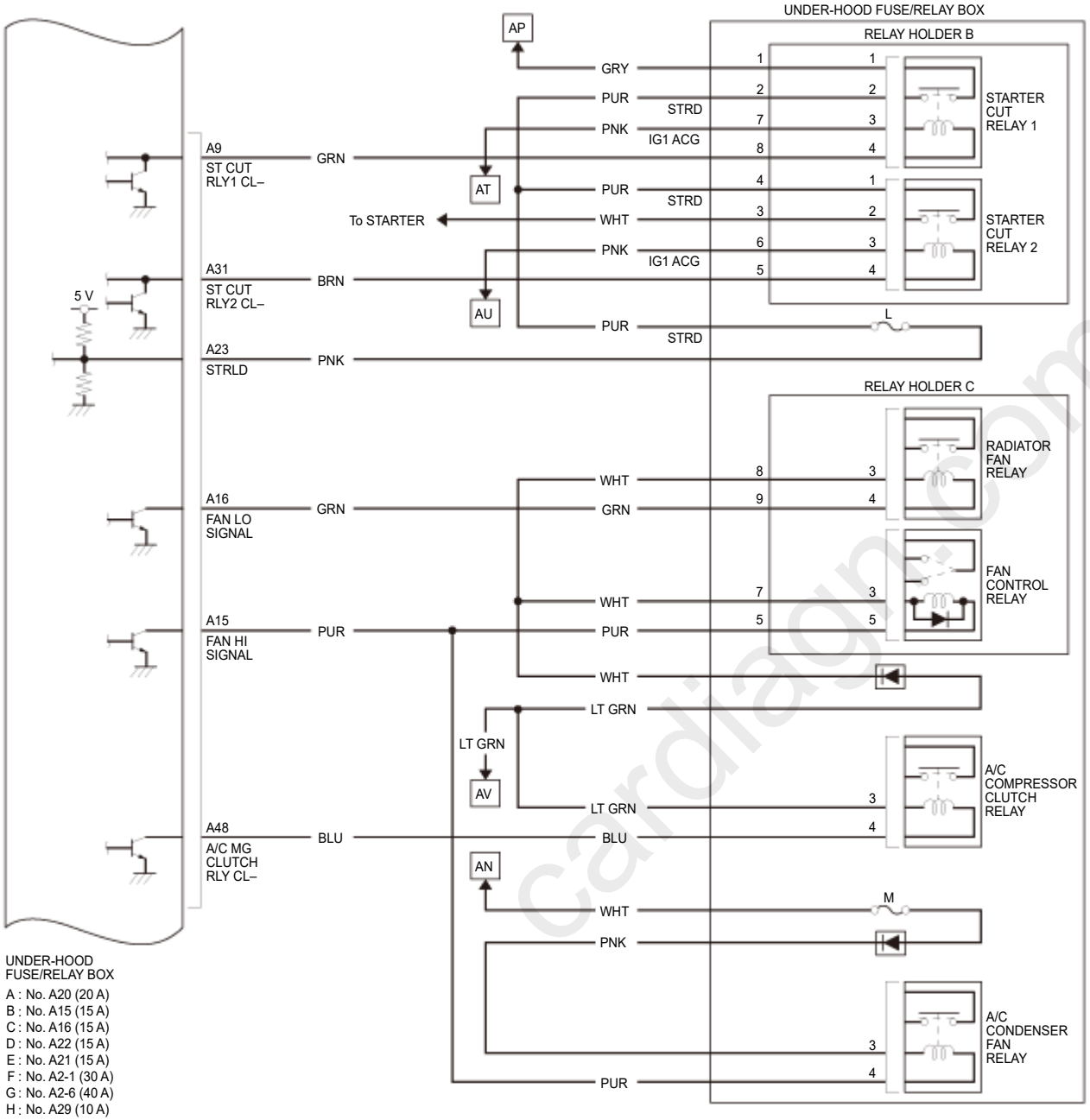


*1: USA and Canada models

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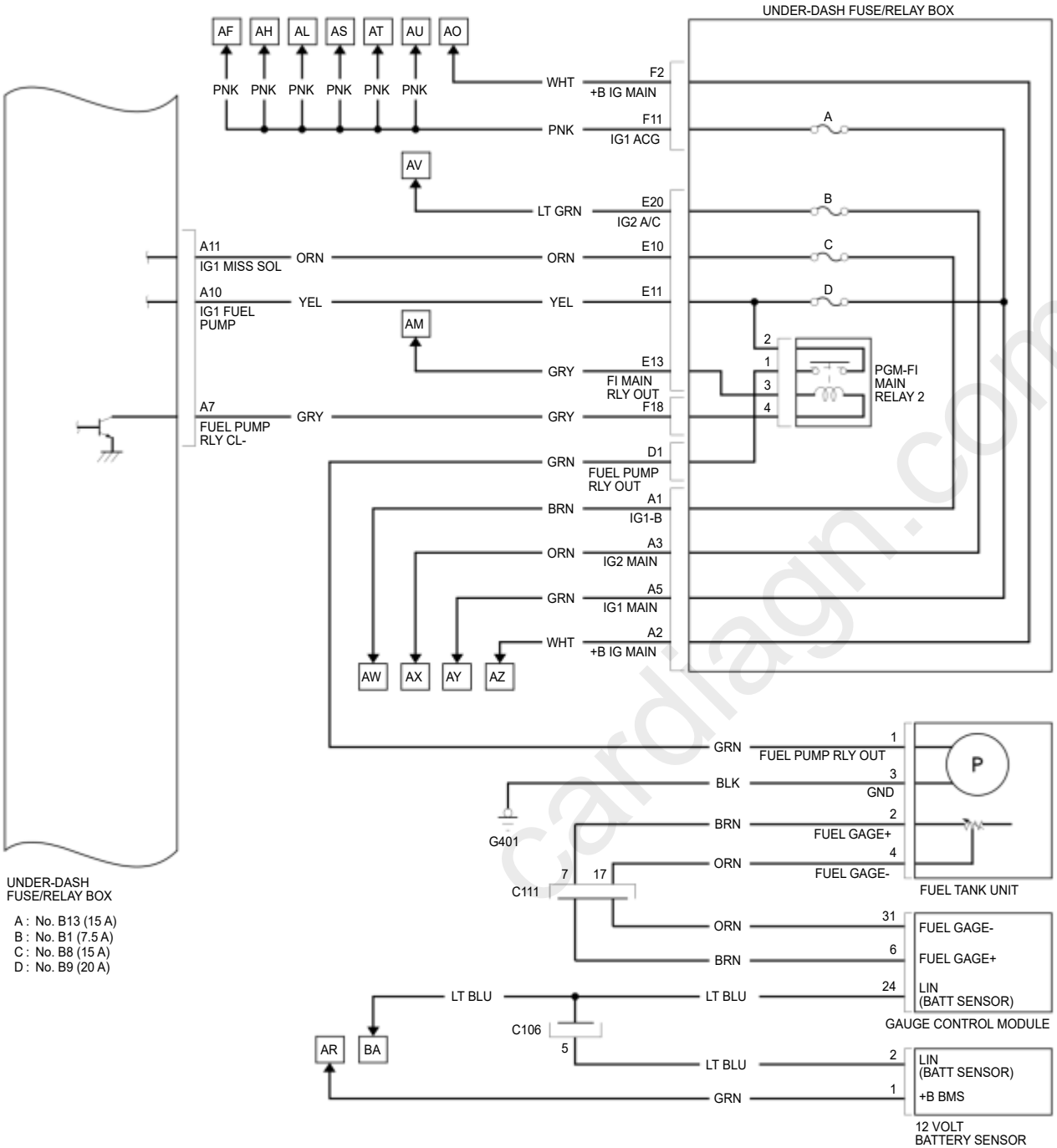


UNDER-HOOD
FUSE/RELAY BOX

A : No. A20 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A17 (10 A)
K : No. A1-6 (125 A)
L : No. A8 (7.5 A)
M : No. A11 (7.5 A)

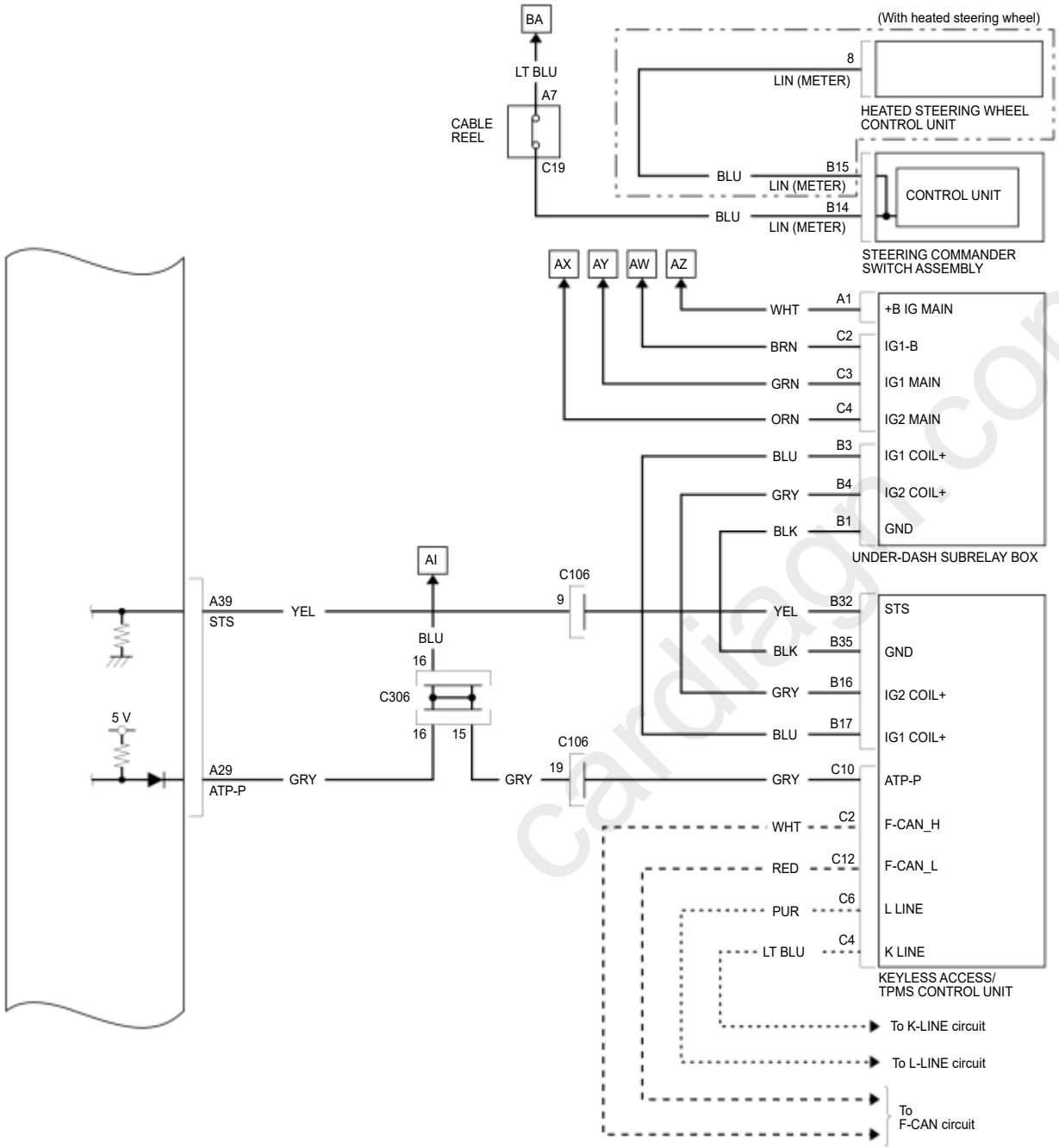
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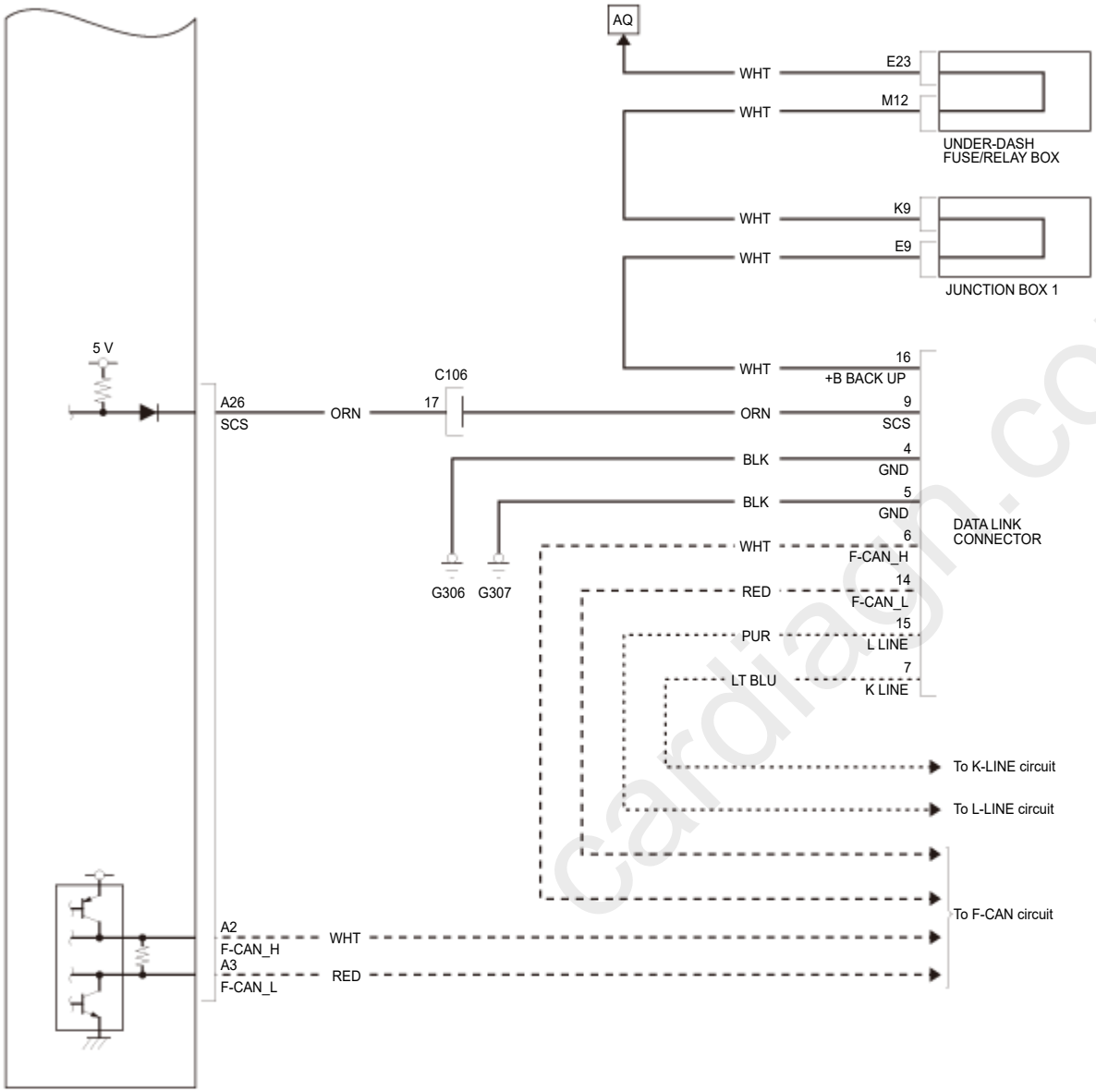
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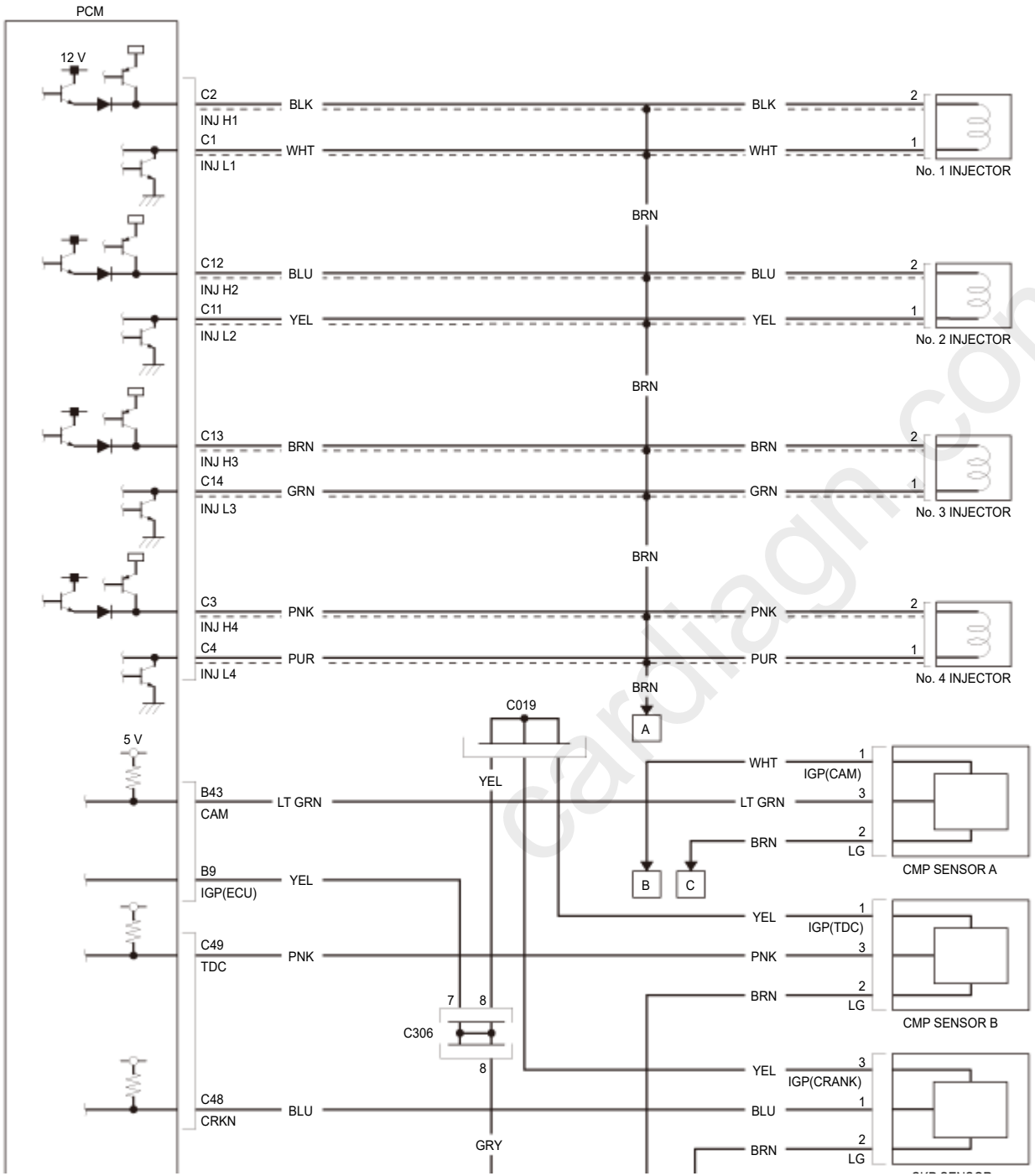

BA
LT BLU
A7
CABLE REEL
C19
(With heated steering wheel)
8
LIN (METER)
HEATED STEERING WHEEL CONTROL UNIT
BLU
B15
LIN (METER)
CONTROL UNIT
BLU
B14
LIN (METER)
STEERING COMMANDER SWITCH ASSEMBLY
AX
AY
AW
AZ
WHT
A1
+B IG MAIN
BRN
C2
IG1-B
GRN
C3
IG1 MAIN
ORN
C4
IG2 MAIN
BLU
B3
IG1 COIL+
GRY
B4
IG2 COIL+
BLK
B1
GND
UNDER-DASH SUBRELAY BOX
AI
C106
9
A39
STS
YEL
BLU
16
C306
16
15
5 V
A29
ATP-P
GRY
GRY
C106
19
YEL
B32
STS
BLK
B35
GND
GRY
B16
IG2 COIL+
BLU
B17
IG1 COIL+
GRY
C10
ATP-P
WHT
C2
F-CAN_H
RED
C12
F-CAN_L
PUR
C6
L LINE
LT BLU
C4
K LINE
KEYLESS ACCESS/ TPMS CONTROL UNIT
To K-LINE circuit
To L-LINE circuit
To F-CAN circuit



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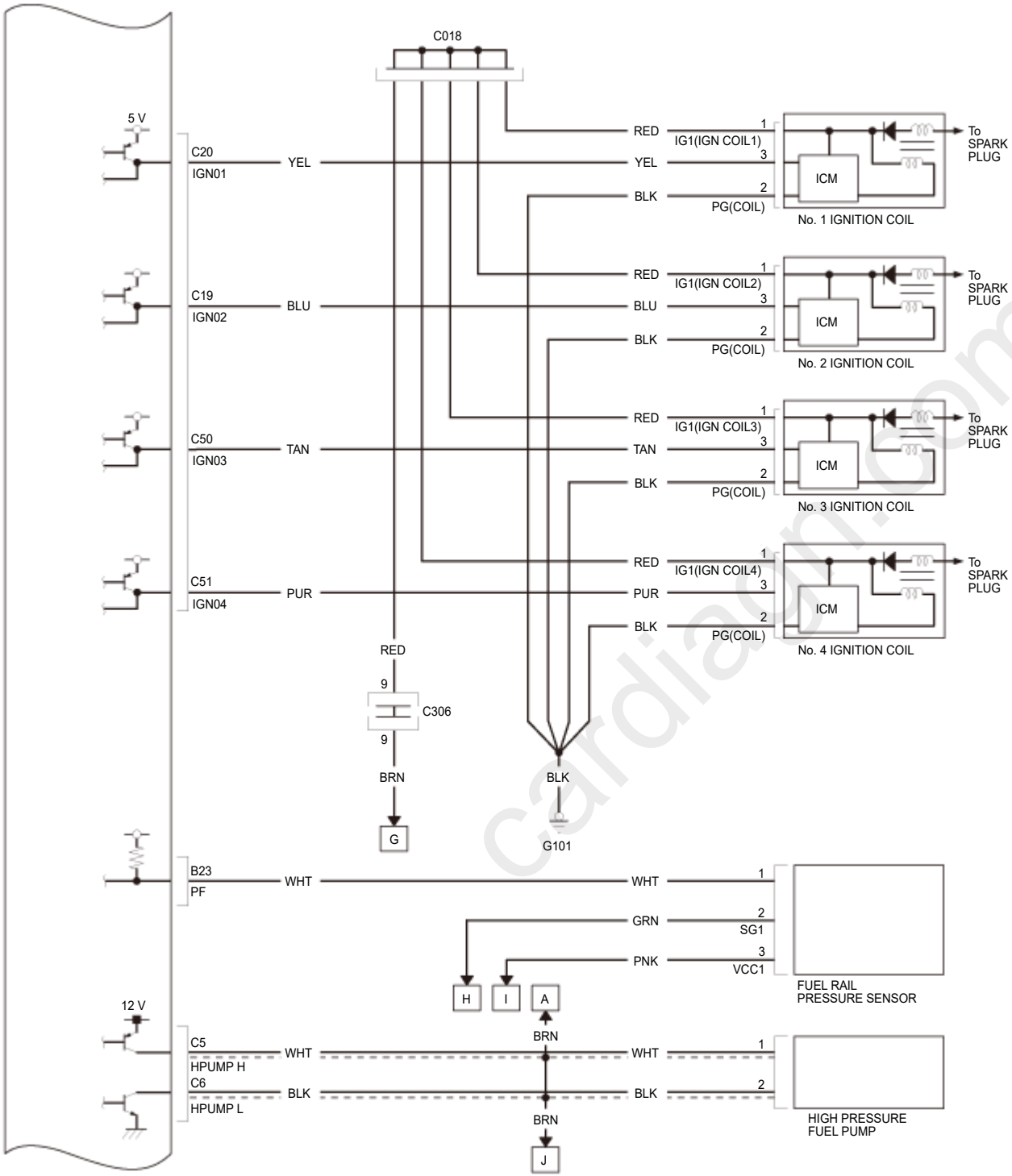
Fuel and Emissions Systems Circuit Diagram



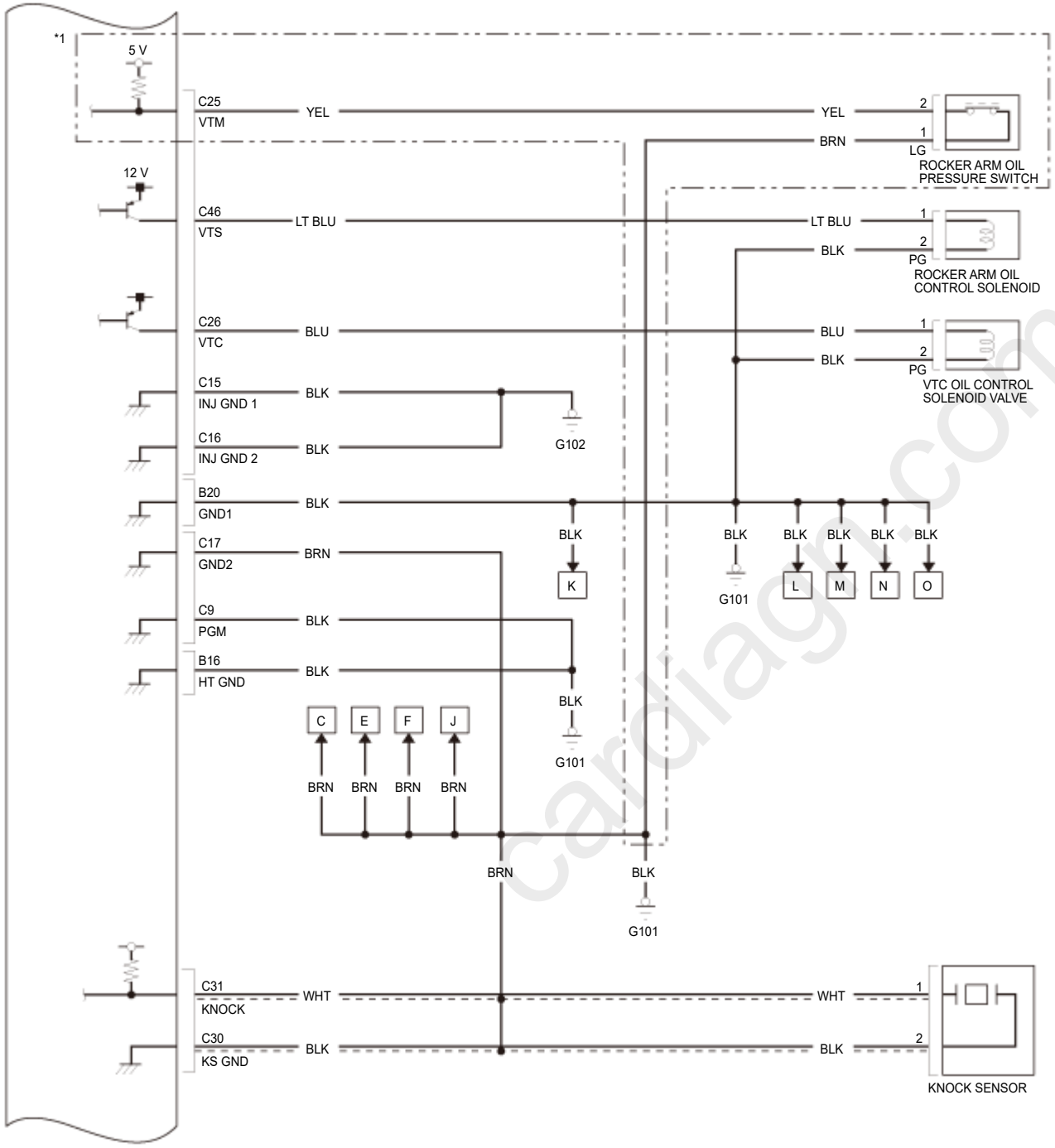


CKP SENSOR

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C018
5 V
C20
IGN01
YEL
C19
IGN02
BLU
C50
IGN03
TAN
C51
IGN04
PUR
RED
YEL
BLK
BLU
TAN
PUR
IG1(IGN COIL1)
IG1(IGN COIL2)
IG1(IGN COIL3)
IG1(IGN COIL4)
PG(COIL)
ICM
No. 1 IGNITION COIL
No. 2 IGNITION COIL
No. 3 IGNITION COIL
No. 4 IGNITION COIL
To SPARK PLUG
C306
G
G101
B23
PF
WHT
GRN
PNK
SG1
VCC1
FUEL RAIL PRESSURE SENSOR
H
I
A
12 V
C5
HPUMP H
C6
HPUMP L
BRN
J
HIGH PRESSURE FUEL PUMP

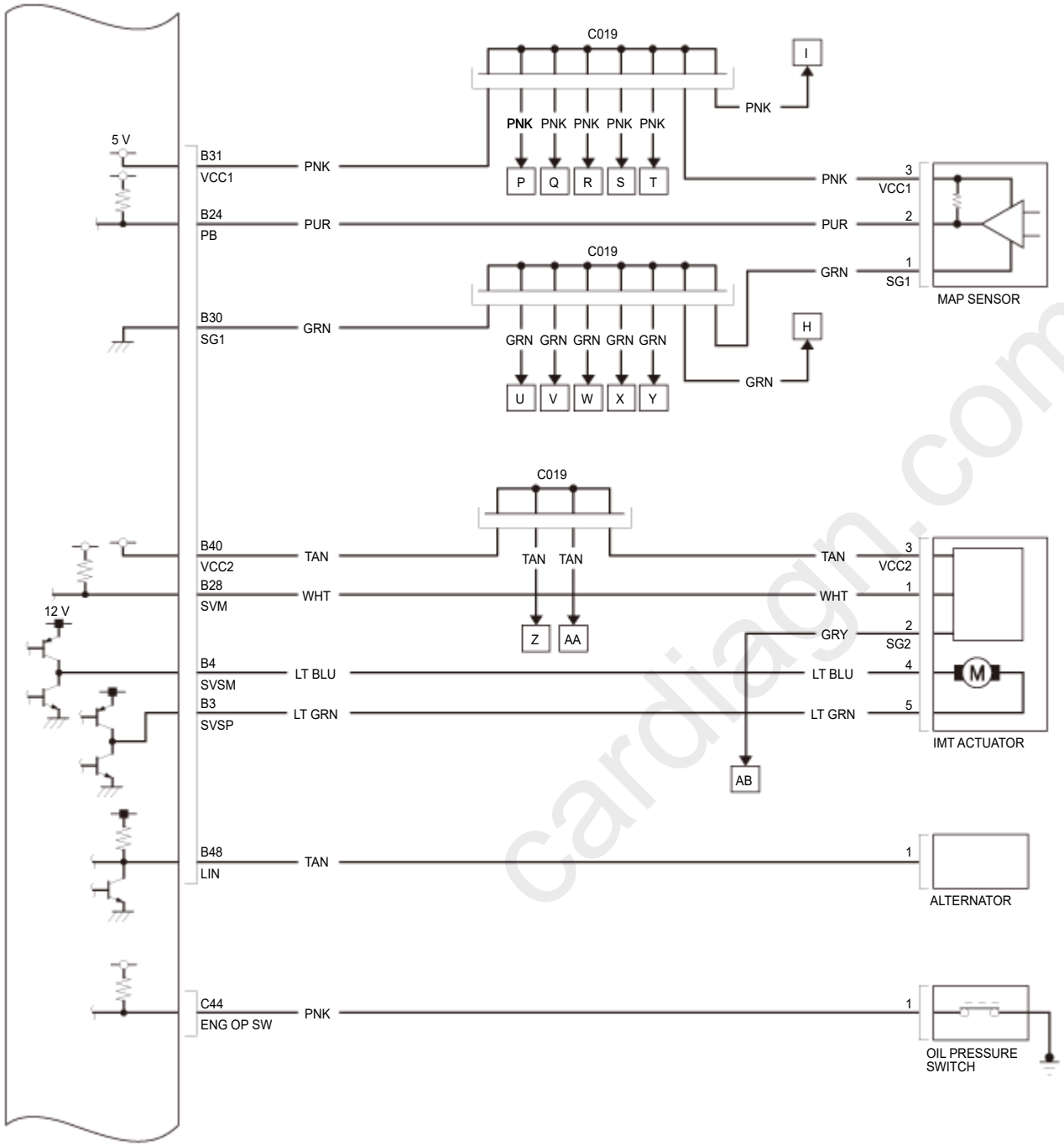
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*1: USA and Canada models

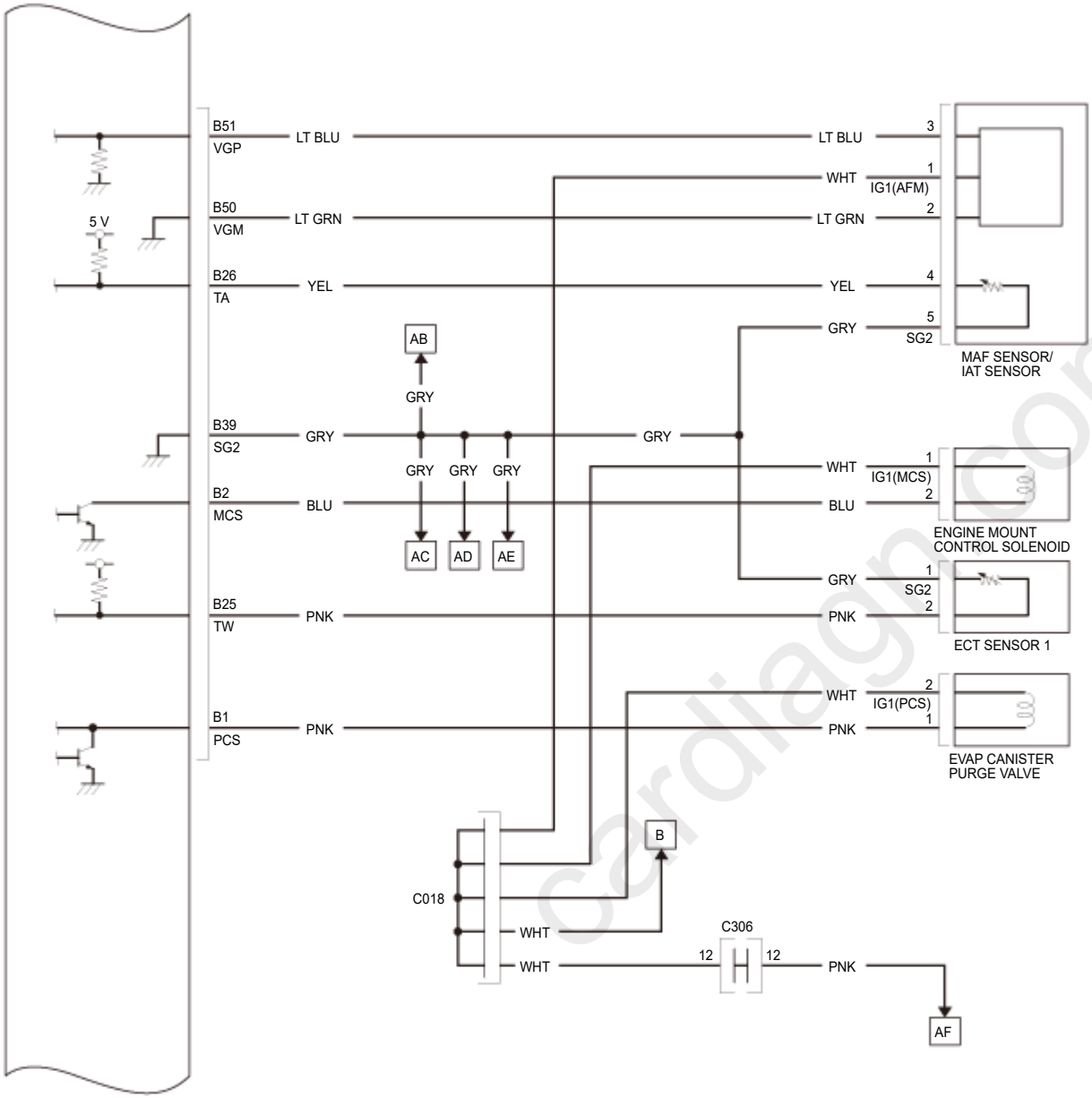
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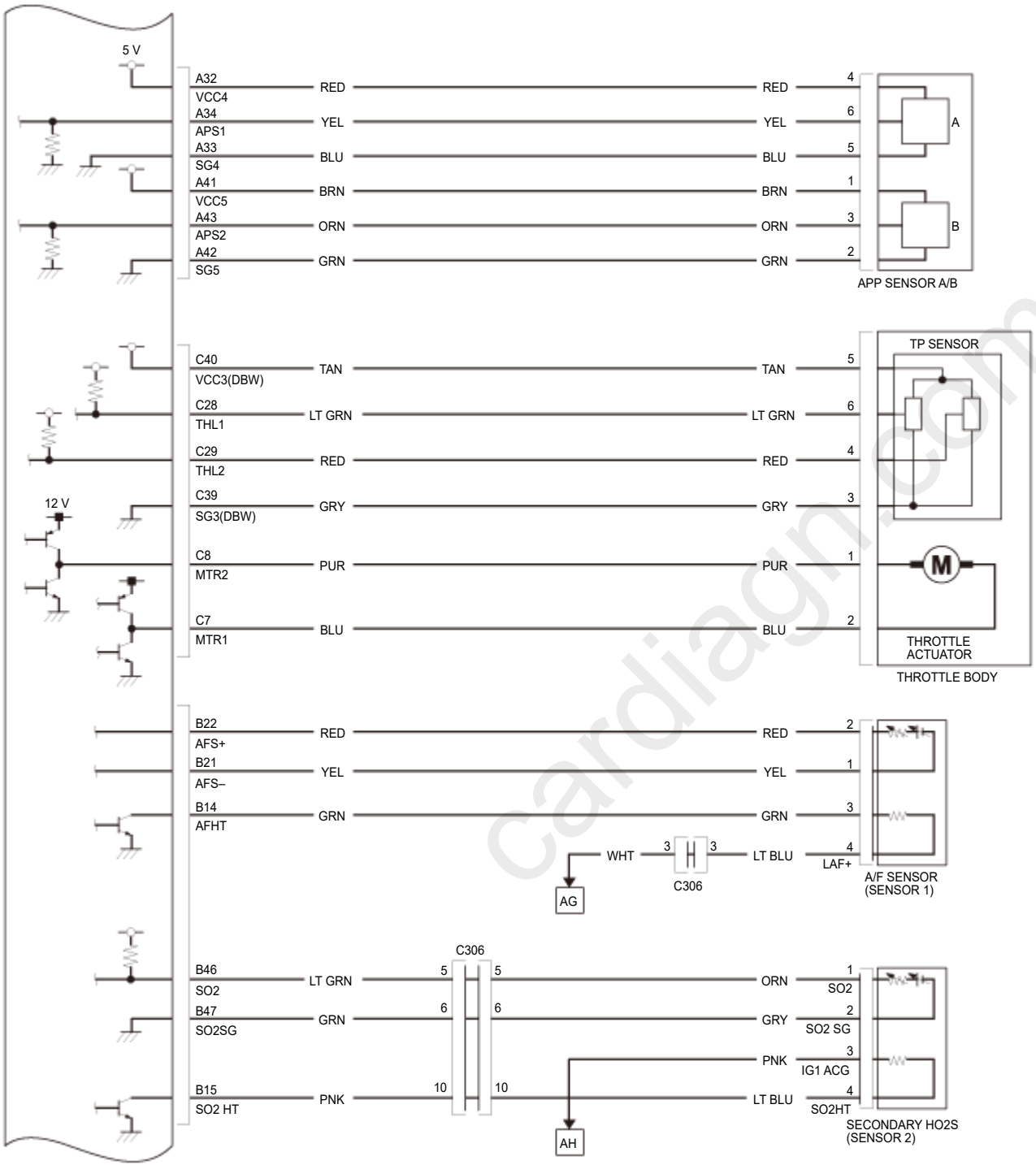
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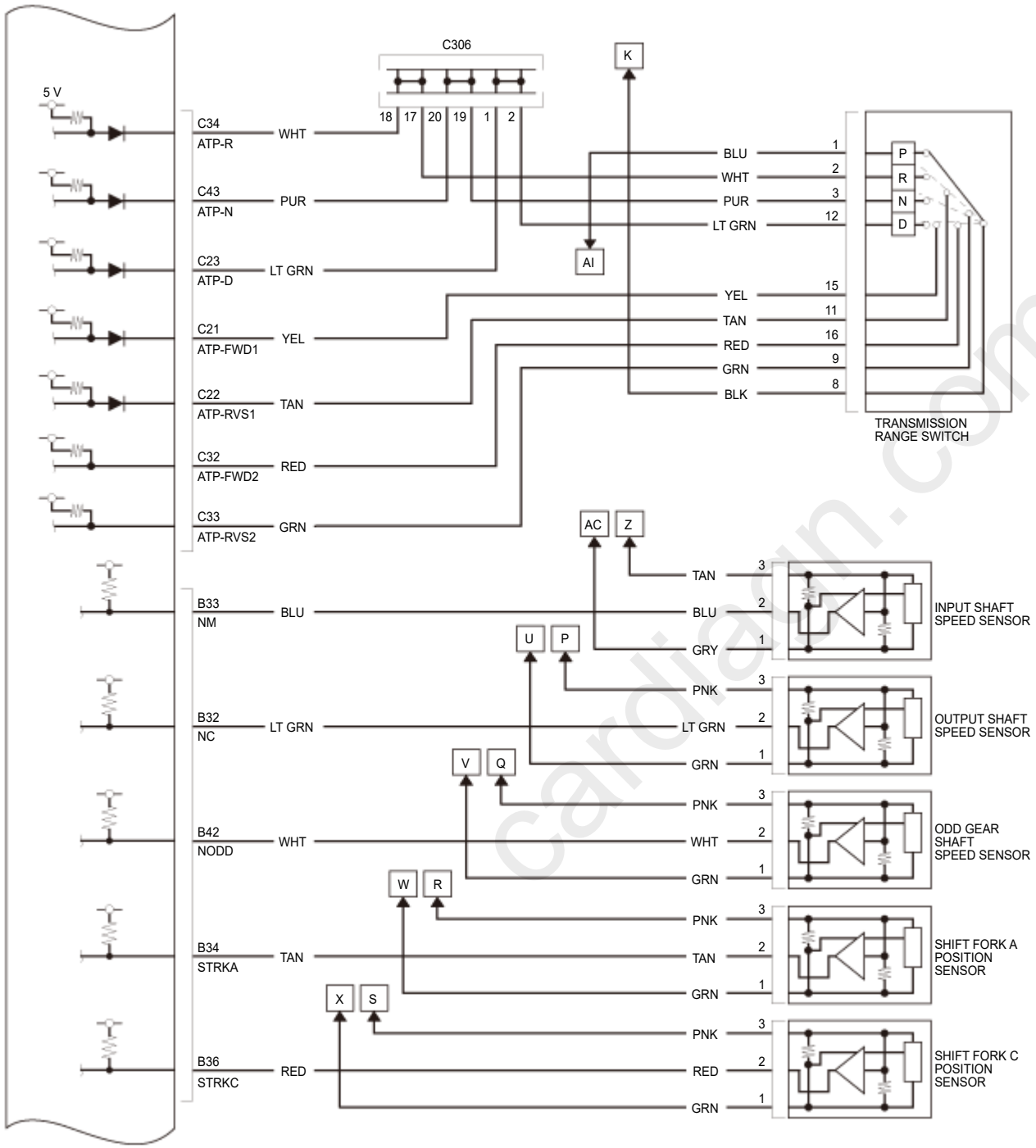
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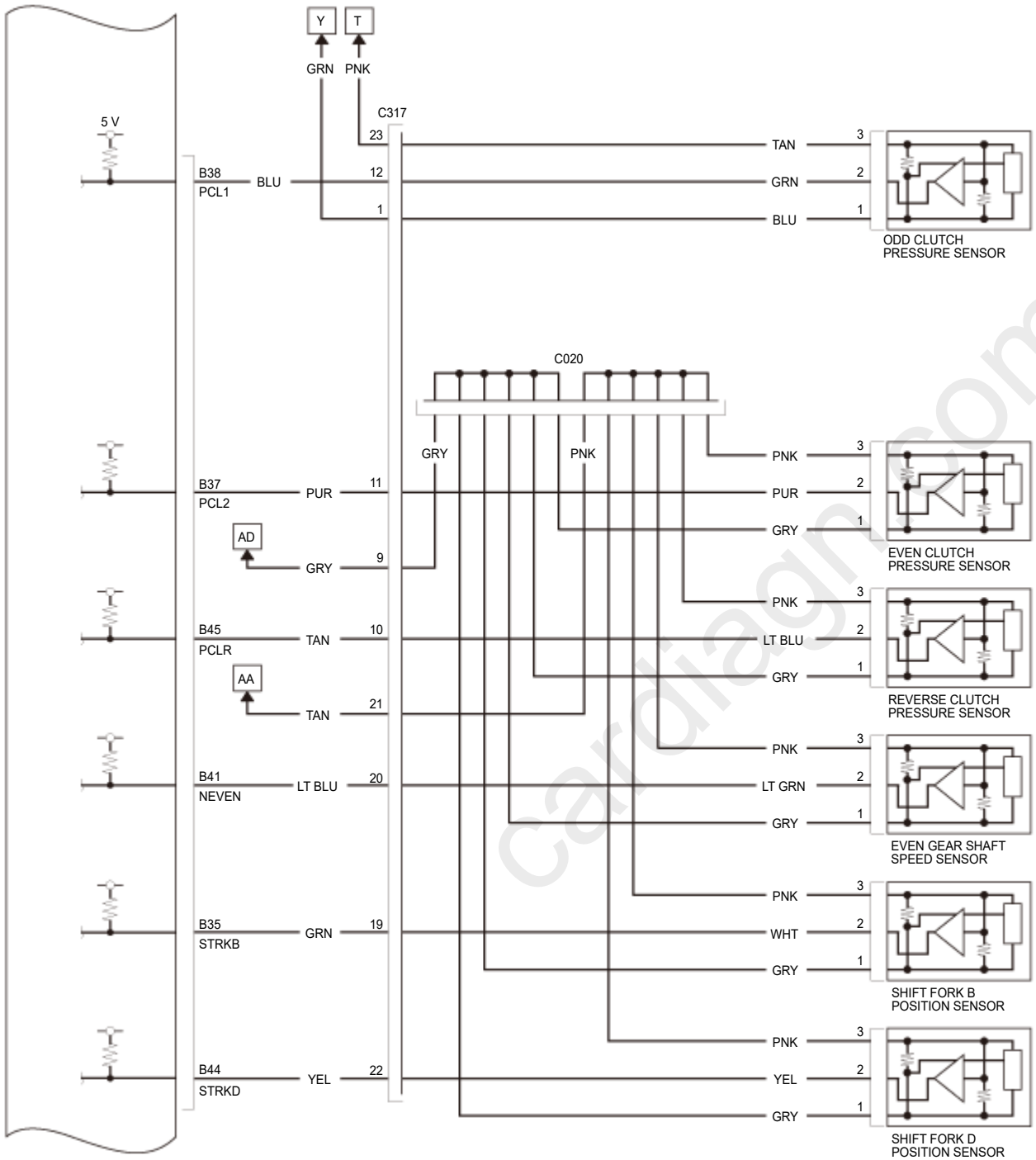


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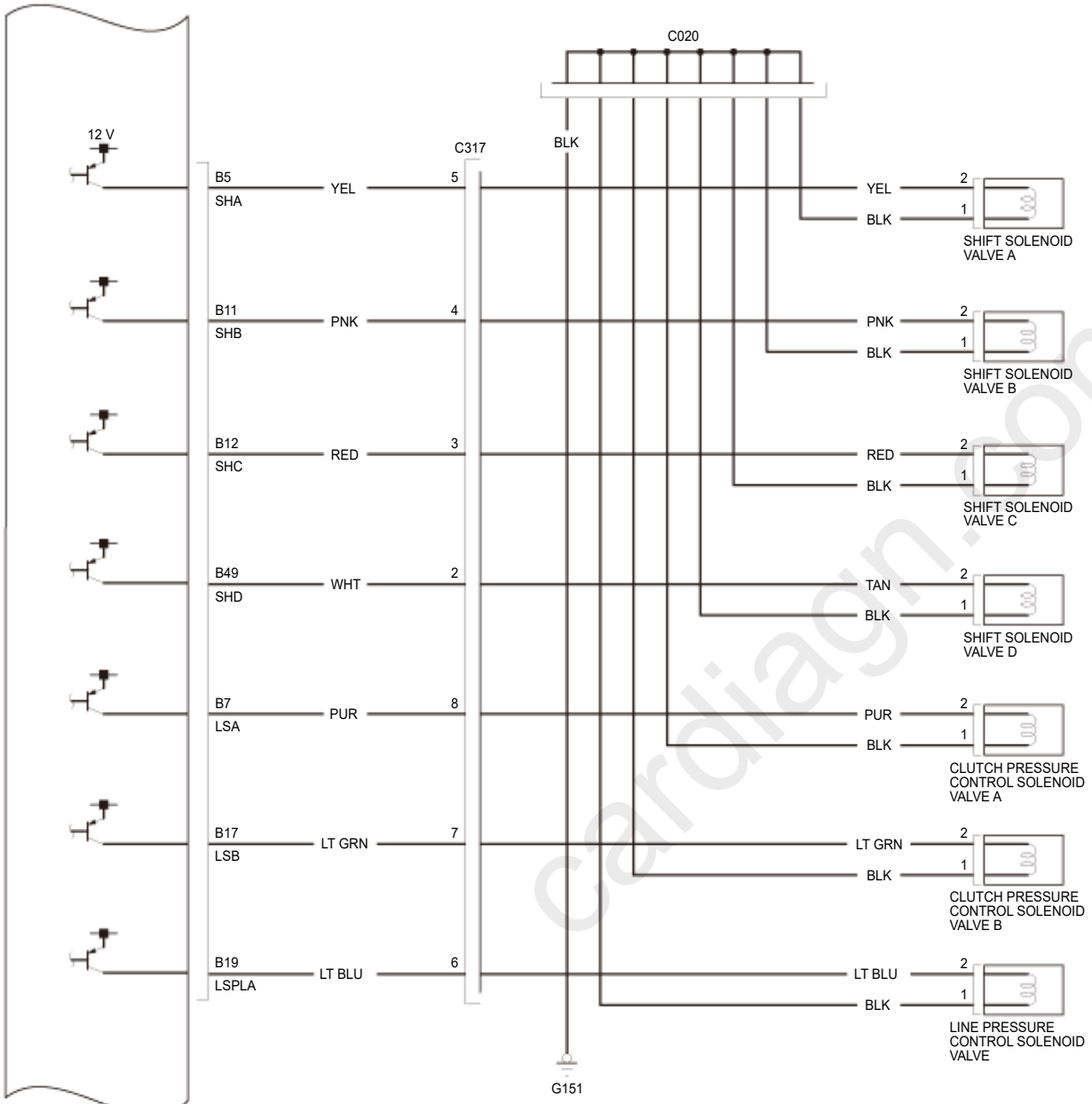
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C306
18 17 20 19 1 2
5 V
C34
ATP-R
WHT
C43
ATP-N
PUR
C23
ATP-D
LT GRN
C21
ATP-FWD1
YEL
C22
ATP-RVS1
TAN
C32
ATP-FWD2
RED
C33
ATP-RVS2
GRN
K
AI
BLU 1
WHT 2
PUR 3
LT GRN 12
YEL 15
TAN 11
RED 16
GRN 9
BLK 8
P
R
N
D
TRANSMISSION
RANGE SWITCH
AC
Z
U
P
V
Q
W
R
X
S
B33
NM
BLU
B32
NC
LT GRN
B42
NODD
WHT
B34
STRKA
TAN
B36
STRKC
RED
TAN 3
BLU 2
GRY 1
INPUT SHAFT
SPEED SENSOR
PNK 3
LT GRN 2
GRN 1
OUTPUT SHAFT
SPEED SENSOR
PNK 3
WHT 2
GRN 1
ODD GEAR
SHAFT
SPEED SENSOR
PNK 3
TAN 2
GRN 1
SHIFT FORK A
POSITION
SENSOR
PNK 3
RED 2
GRN 1
SHIFT FORK C
POSITION
SENSOR

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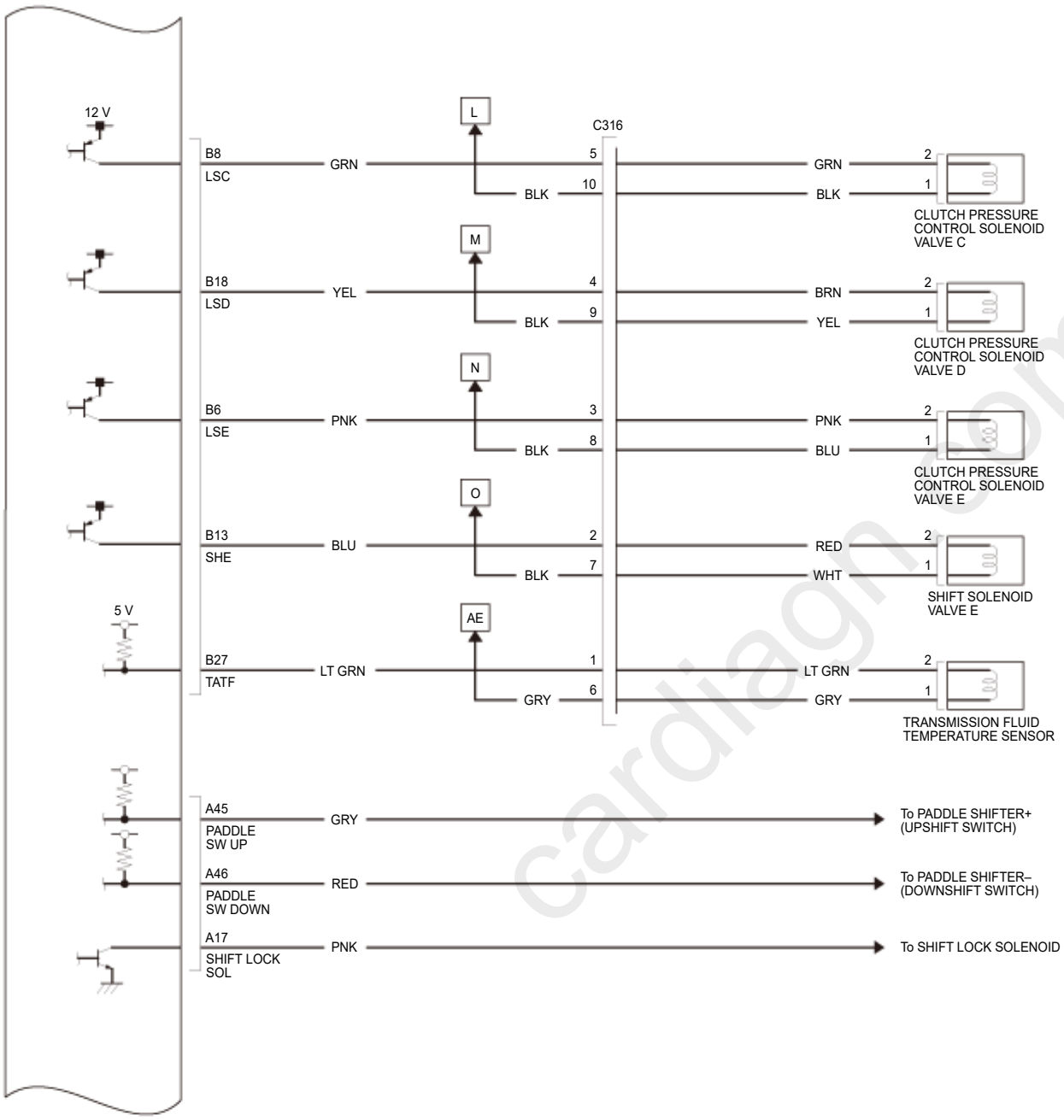

Y
T
GRN
PNK
C317
5 V
B38
PCL1
BLU
23
12
1
TAN
GRN
BLU
3
2
1
ODD CLUTCH
PRESSURE SENSOR
C020
GRY
PNK
B37
PCL2
PUR
11
AD
GRY
9
PNK
PUR
GRY
EVEN CLUTCH
PRESSURE SENSOR
B45
PCLR
TAN
10
AA
TAN
21
PNK
LT BLU
GRY
REVERSE CLUTCH
PRESSURE SENSOR
B41
NEVEN
LT BLU
20
PNK
LT GRN
GRY
EVEN GEAR SHAFT
SPEED SENSOR
B35
STRKB
GRN
19
PNK
WHT
GRY
SHIFT FORK B
POSITION SENSOR
B44
STRKD
YEL
22
PNK
YEL
GRY
SHIFT FORK D
POSITION SENSOR

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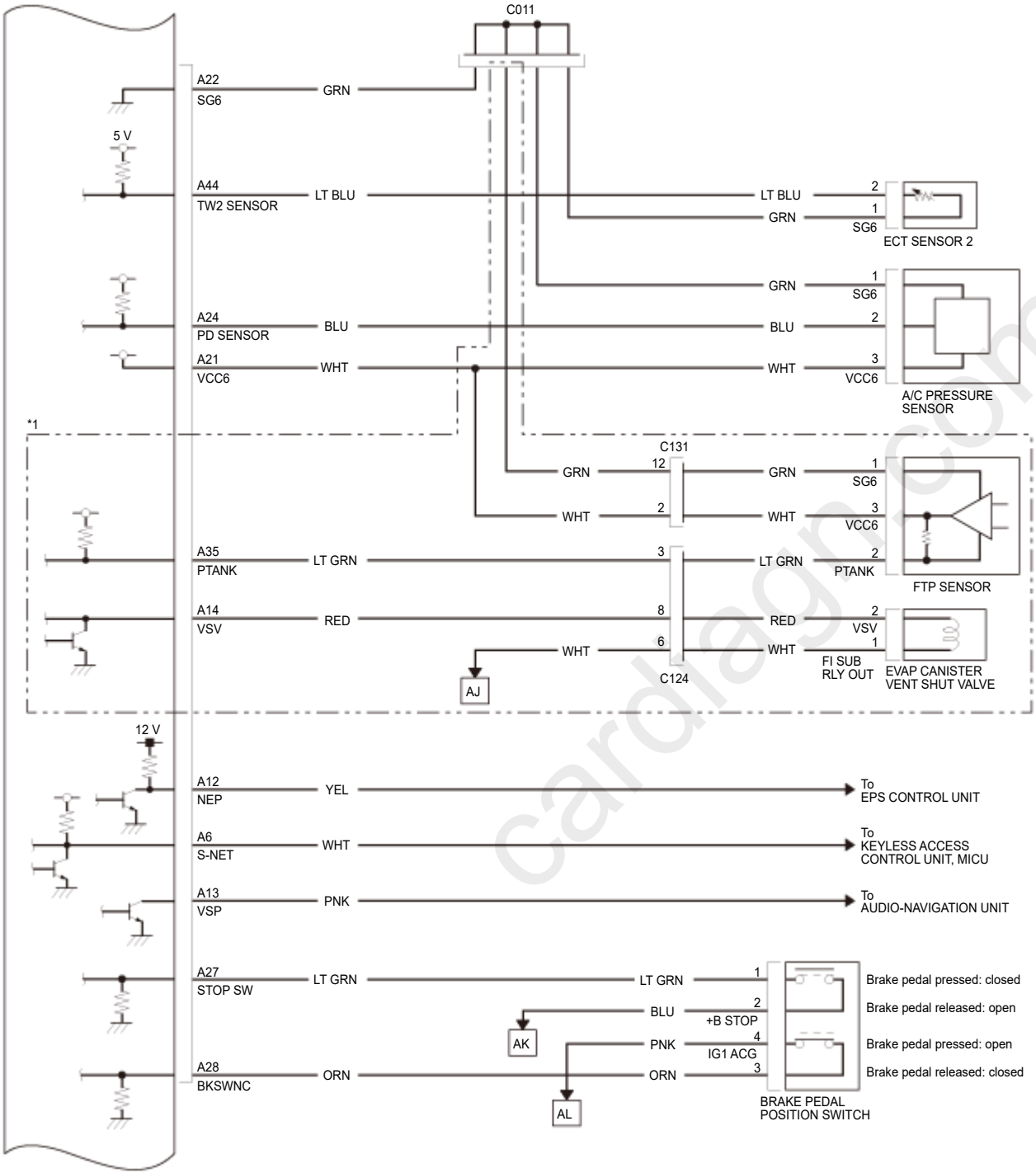


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12 V
B8
LSC
GRN
L
5
BLK
10
C316
GRN
2
BLK
1
CLUTCH PRESSURE CONTROL SOLENOID VALVE C
M
B18
LSD
YEL
4
BLK
9
BRN
2
YEL
1
CLUTCH PRESSURE CONTROL SOLENOID VALVE D
N
B6
LSE
PNK
3
BLK
8
PNK
2
BLU
1
CLUTCH PRESSURE CONTROL SOLENOID VALVE E
O
B13
SHE
BLU
2
BLK
7
RED
2
WHT
1
SHIFT SOLENOID VALVE E
5 V
AE
B27
TATF
LT GRN
1
GRY
6
LT GRN
2
GRY
1
TRANSMISSION FLUID TEMPERATURE SENSOR
A45
PADDLE SW UP
GRY
To PADDLE SHIFTER+ (UPSHIFT SWITCH)
A46
PADDLE SW DOWN
RED
To PADDLE SHIFTER– (DOWNSHIFT SWITCH)
A17
SHIFT LOCK SOL
PNK
To SHIFT LOCK SOLENOID

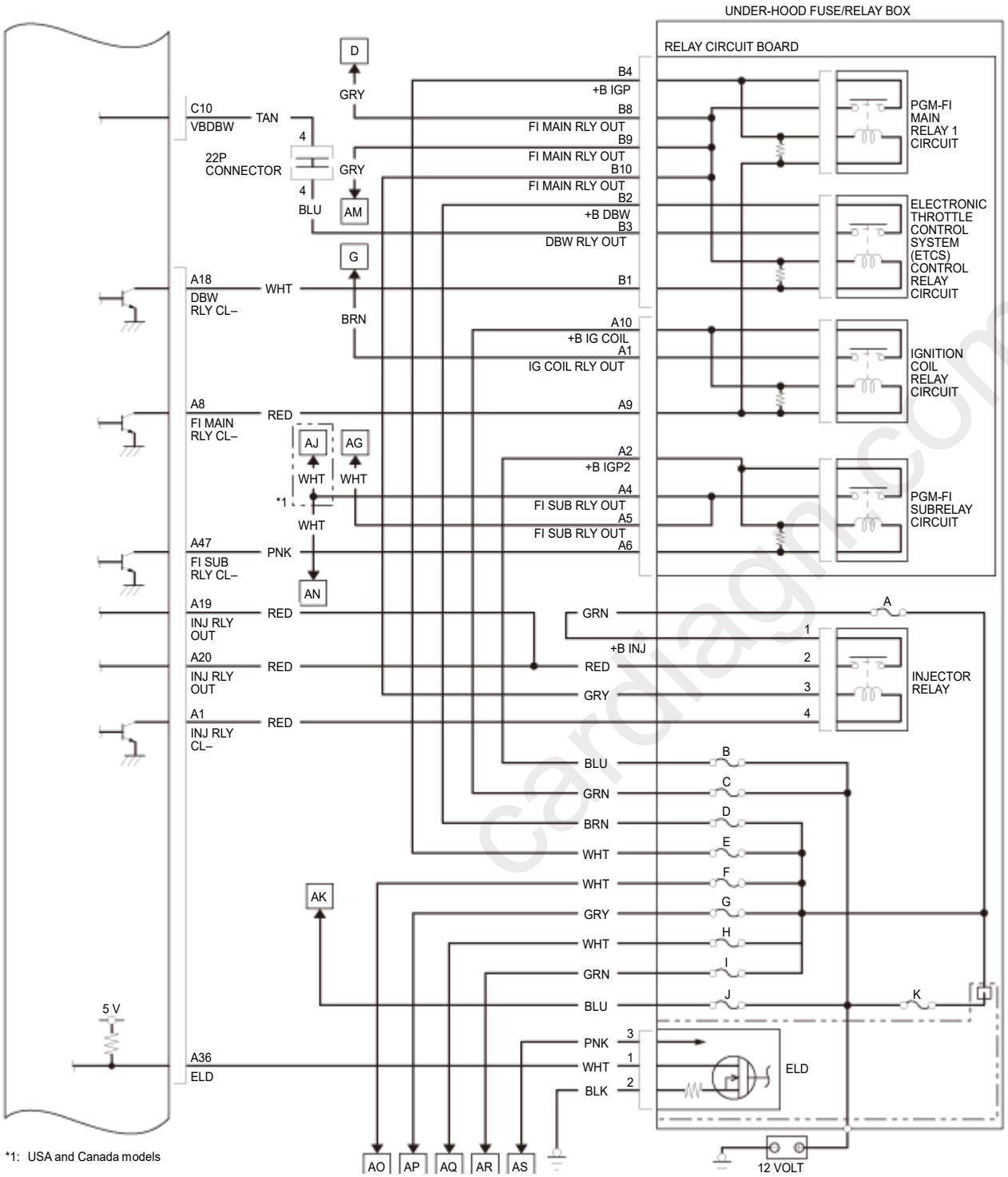
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*1: USA and Canada models

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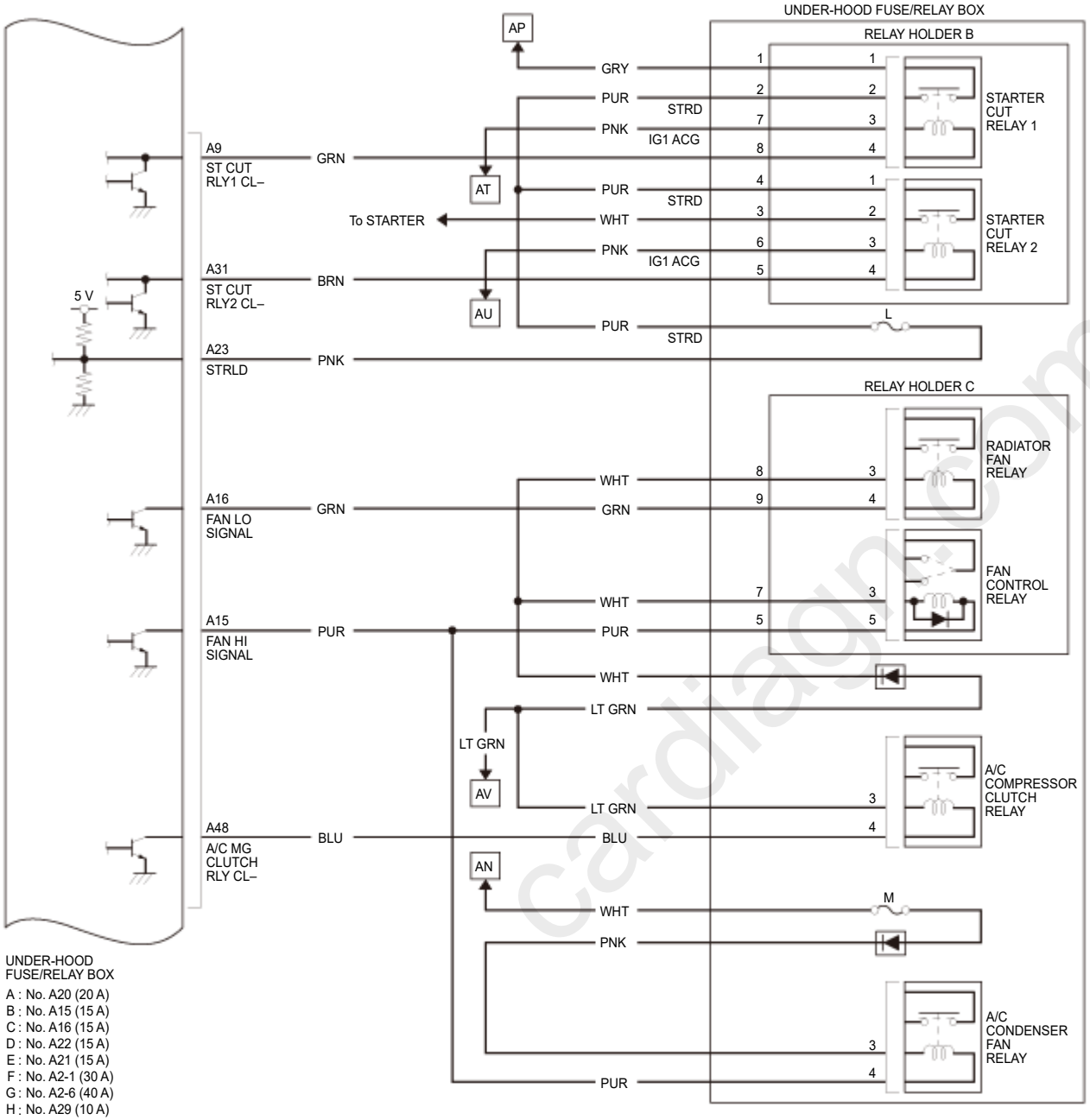


*1: USA and Canada models

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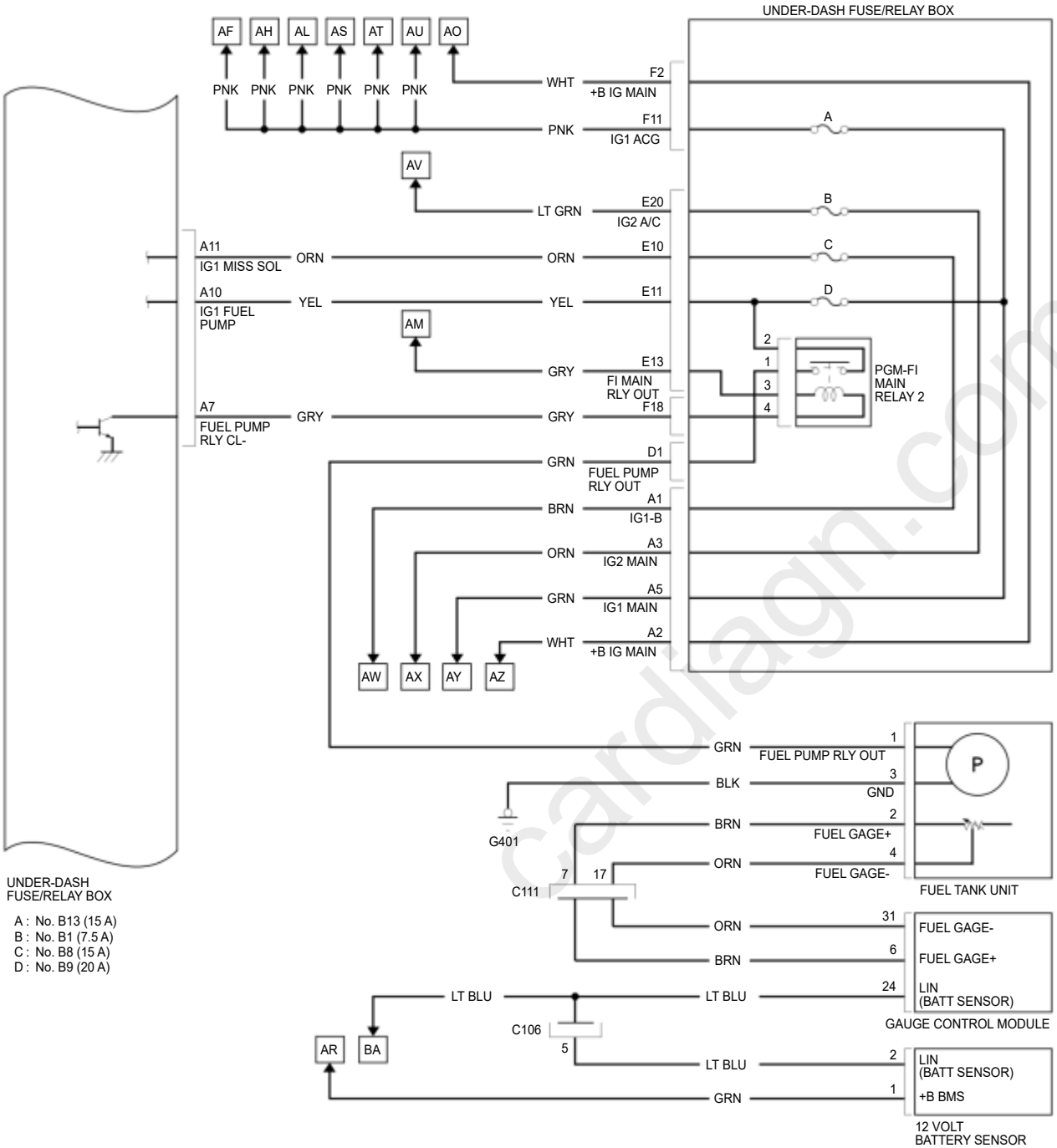


UNDER-HOOD
FUSE/RELAY BOX

A : No. A20 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A17 (10 A)
K : No. A1-6 (125 A)
L : No. A8 (7.5 A)
M : No. A11 (7.5 A)

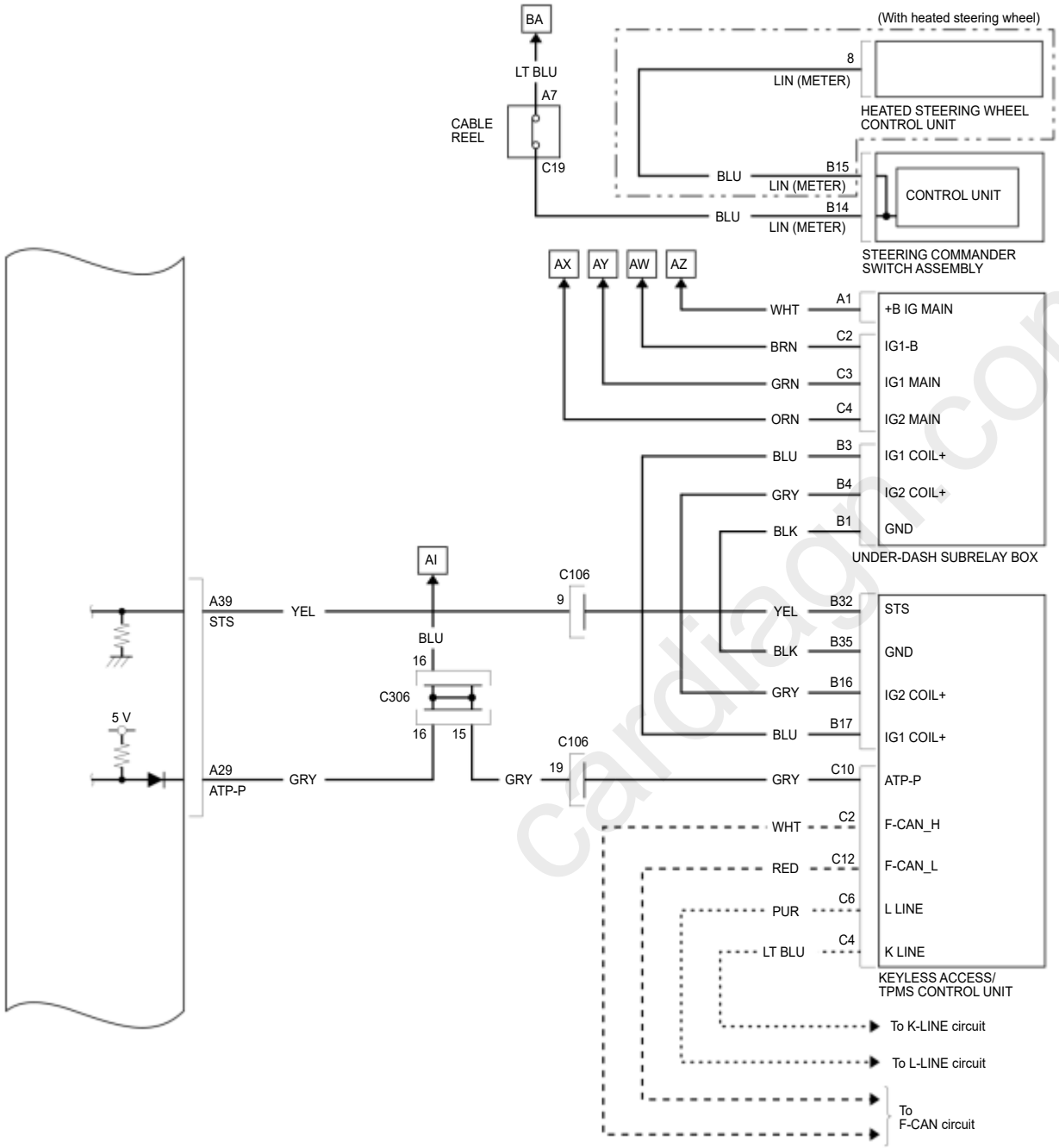
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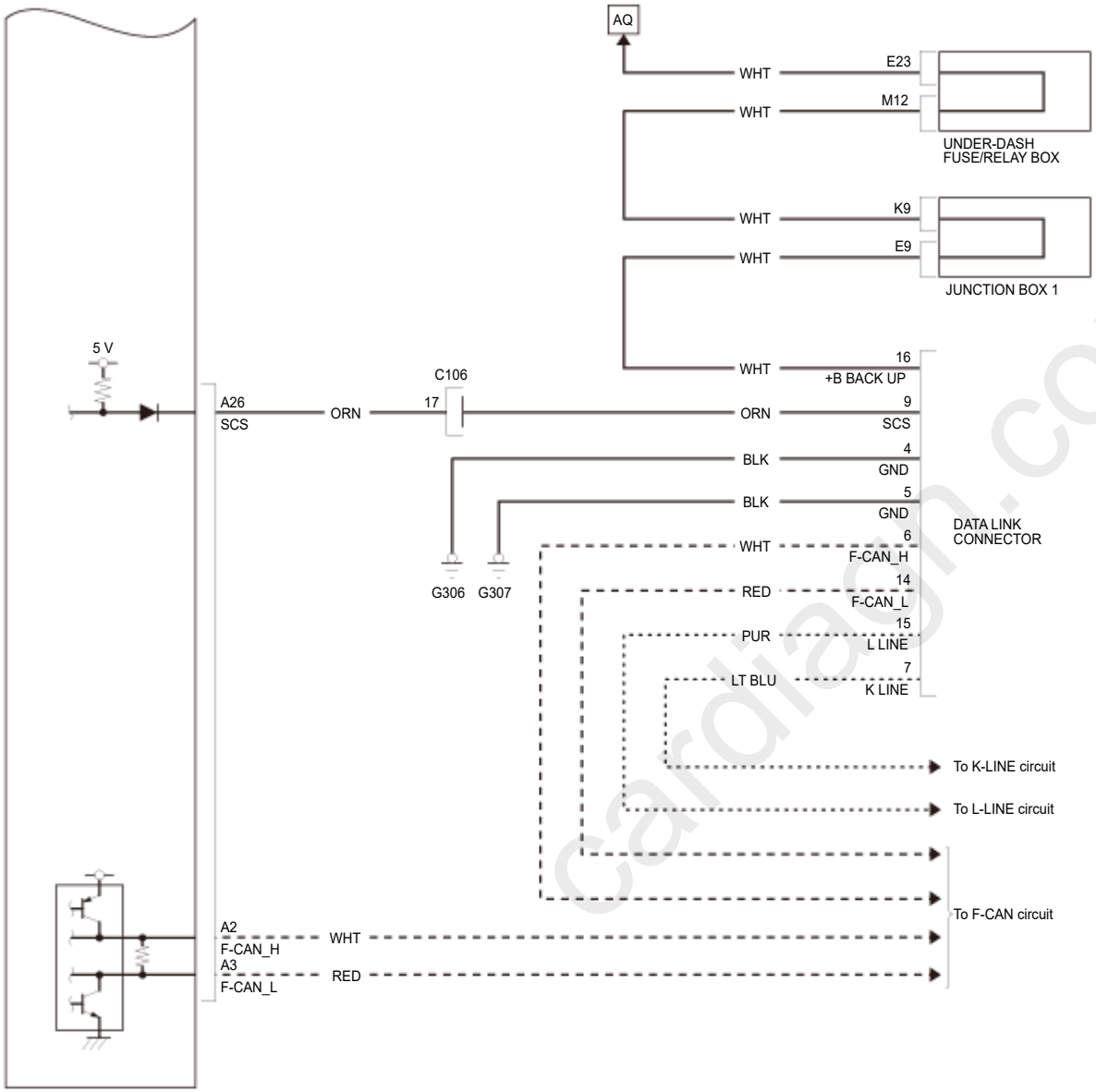
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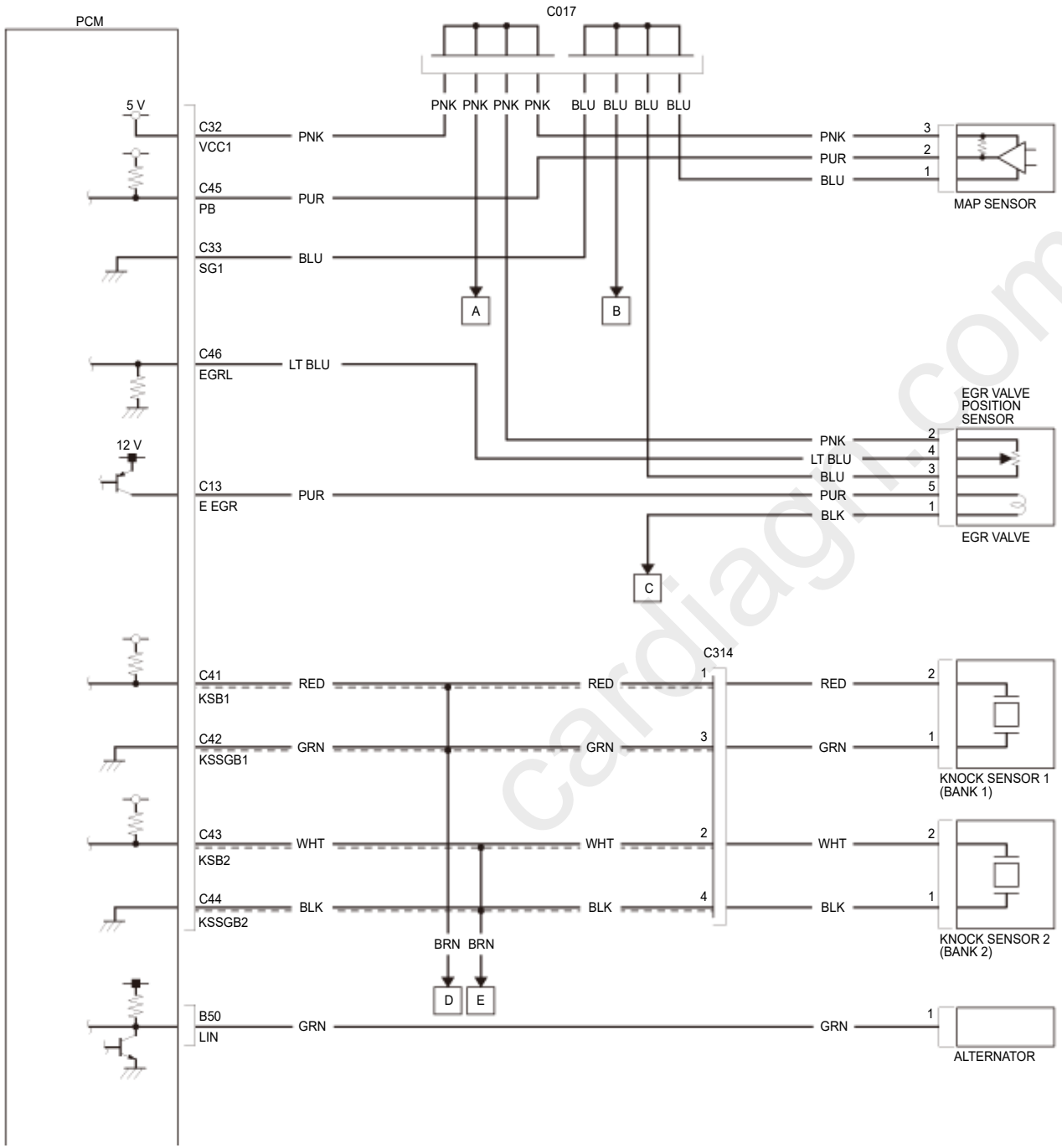

BA
LT BLU
A7
CABLE REEL
C19
(With heated steering wheel)
8
LIN (METER)
HEATED STEERING WHEEL CONTROL UNIT
BLU
B15
LIN (METER)
CONTROL UNIT
BLU
B14
LIN (METER)
STEERING COMMANDER SWITCH ASSEMBLY
AX
AY
AW
AZ
WHT
A1
+B IG MAIN
BRN
C2
IG1-B
GRN
C3
IG1 MAIN
ORN
C4
IG2 MAIN
BLU
B3
IG1 COIL+
GRY
B4
IG2 COIL+
BLK
B1
GND
UNDER-DASH SUBRELAY BOX
AI
C106
9
A39
STS
YEL
BLU
16
C306
16
15
5 V
A29
ATP-P
GRY
GRY
C106
19
YEL
B32
STS
BLK
B35
GND
GRY
B16
IG2 COIL+
BLU
B17
IG1 COIL+
GRY
C10
ATP-P
WHT
C2
F-CAN_H
RED
C12
F-CAN_L
PUR
C6
L LINE
LT BLU
C4
K LINE
KEYLESS ACCESS/ TPMS CONTROL UNIT
To K-LINE circuit
To L-LINE circuit
To F-CAN circuit



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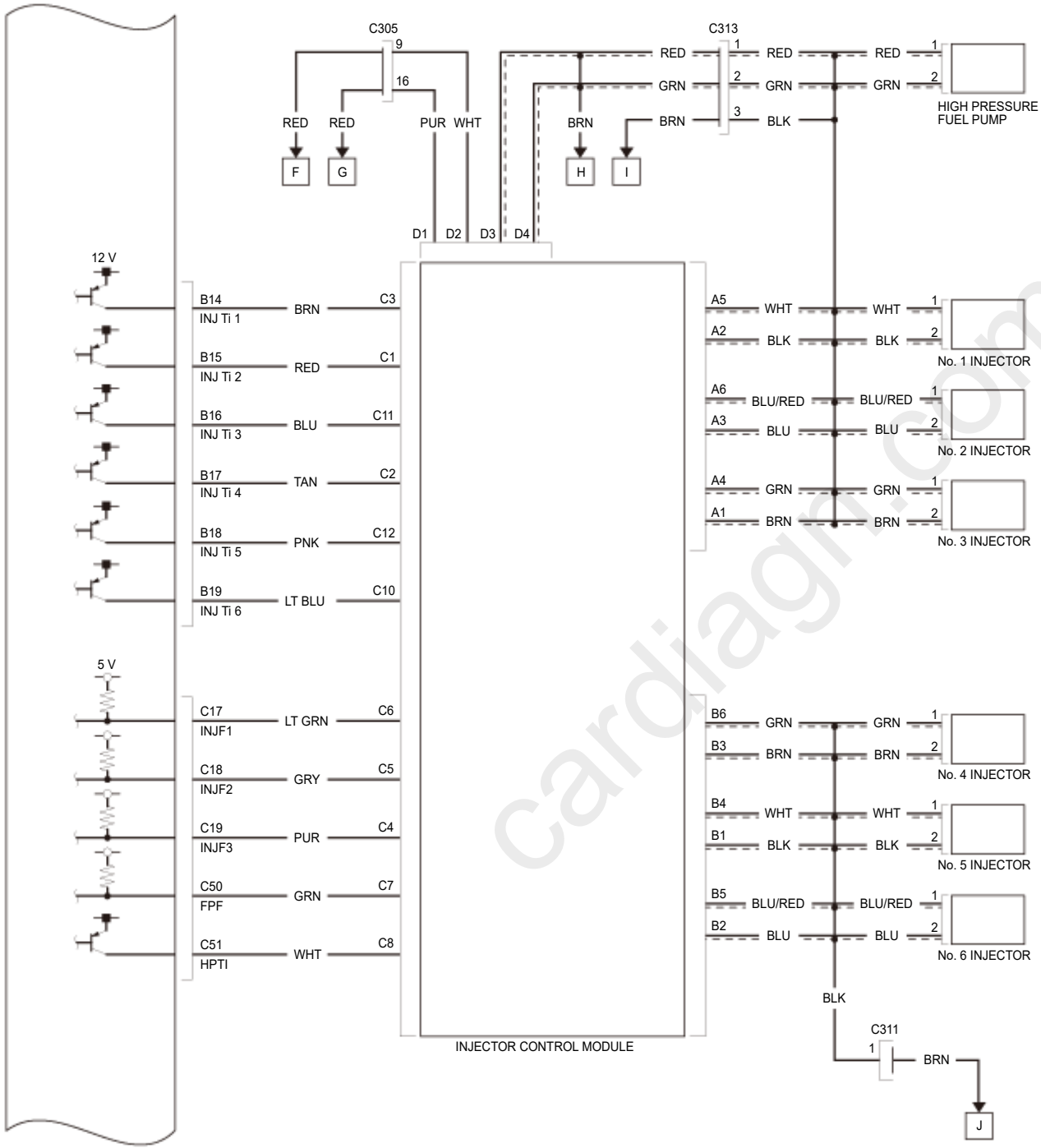
Fuel and Emissions Systems Circuit Diagram



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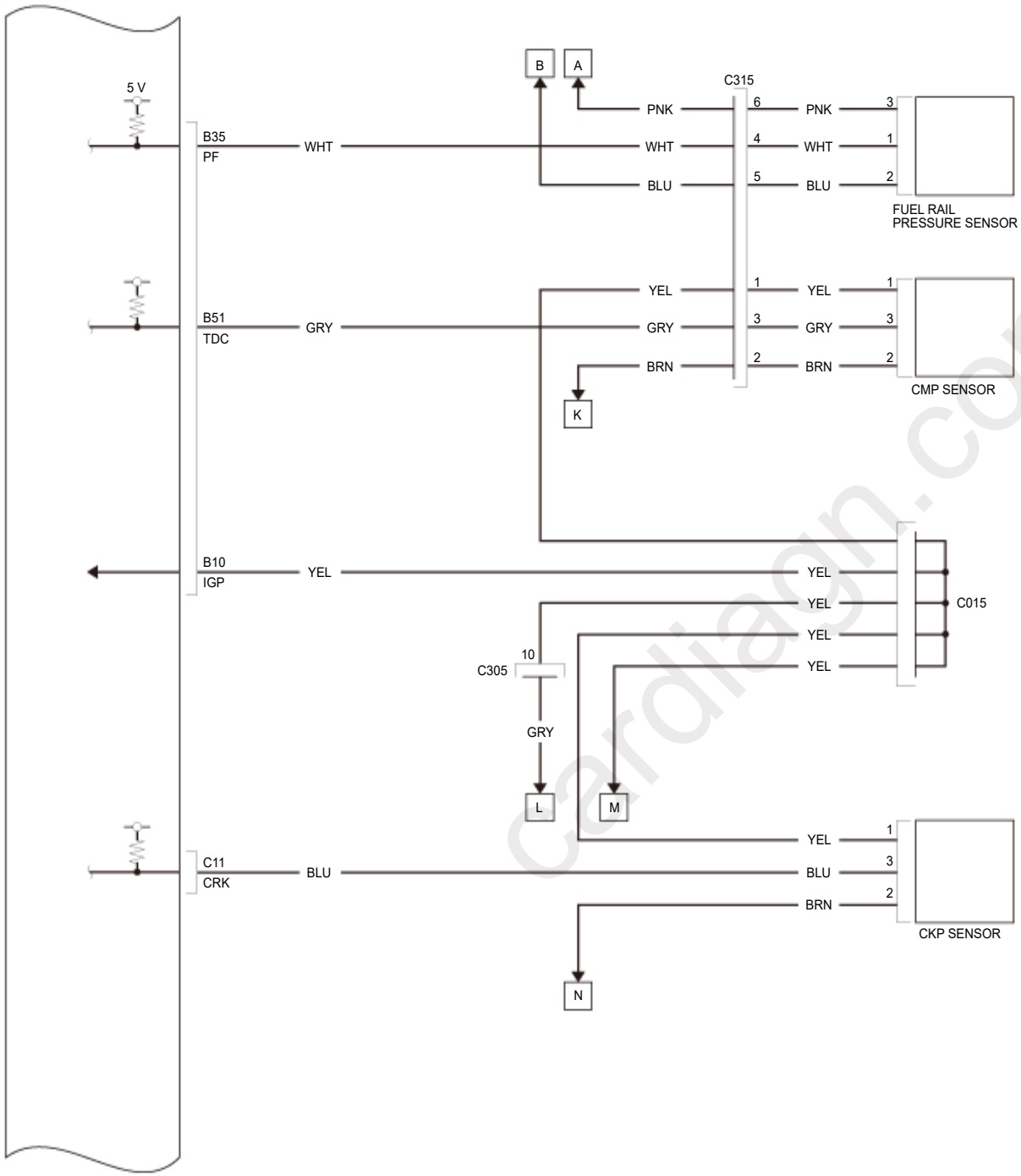


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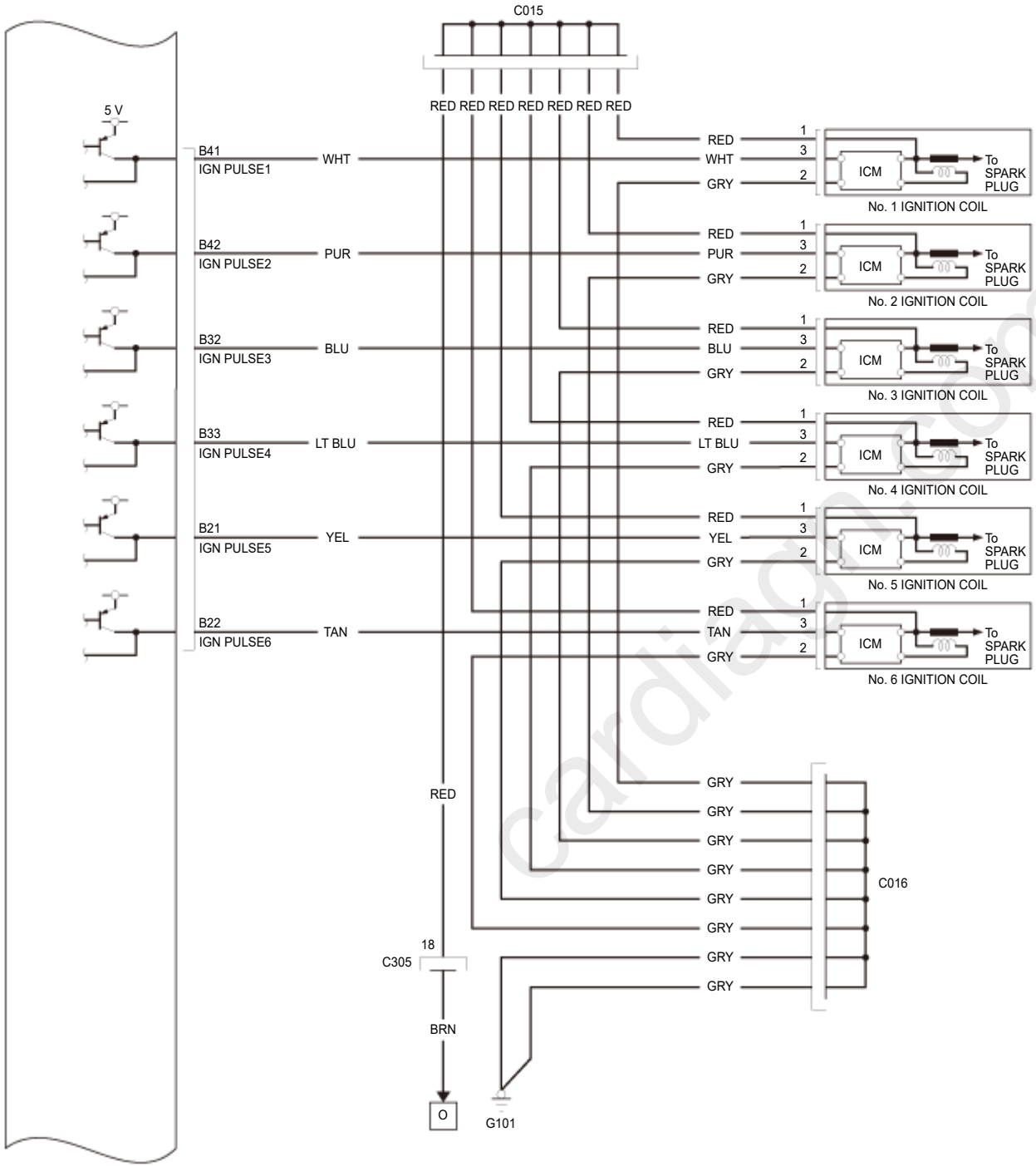
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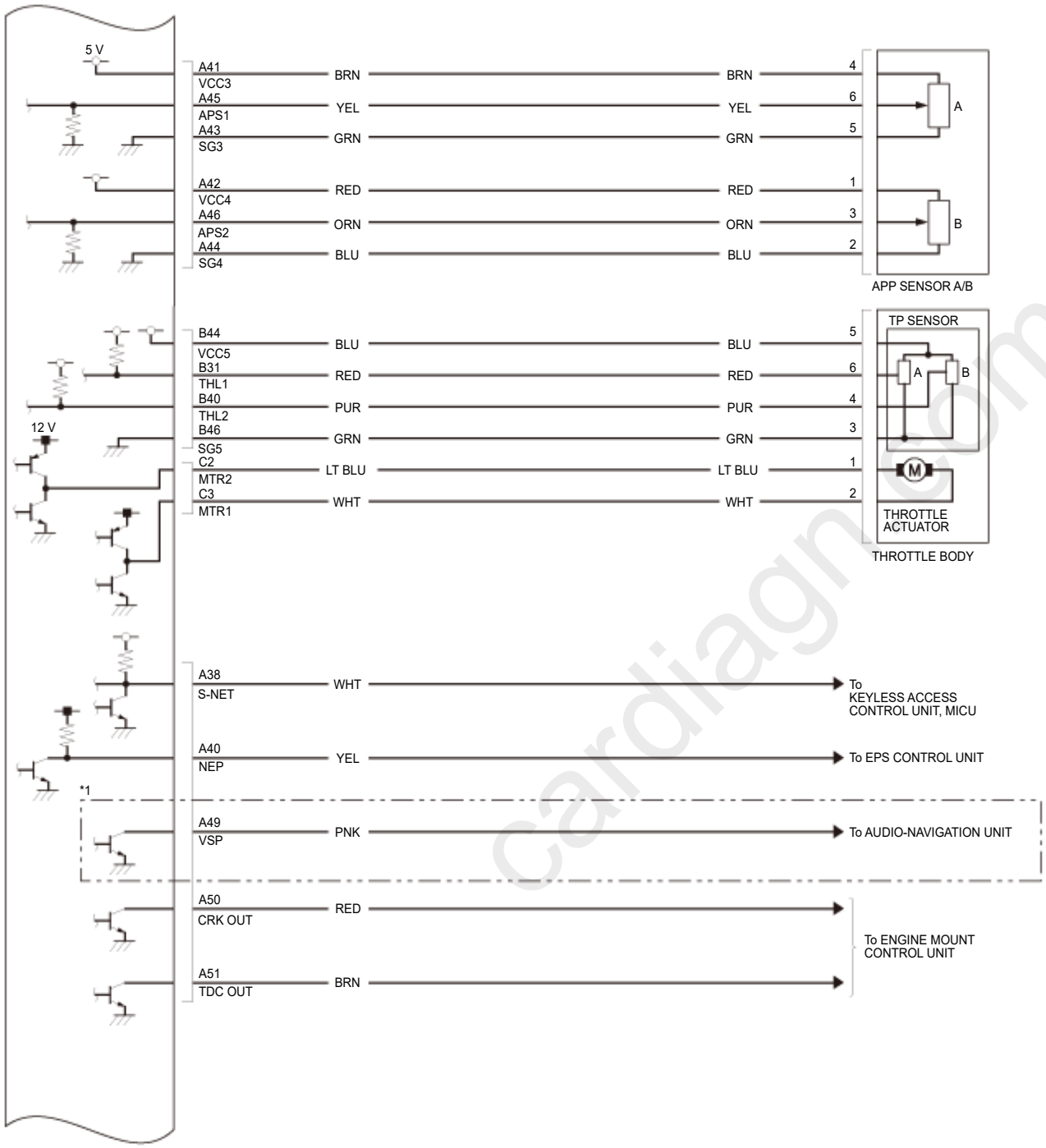


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C015
RED RED RED RED RED RED RED
5 V
B41
IGN PULSE1
WHT
B42
IGN PULSE2
PUR
B32
IGN PULSE3
BLU
B33
IGN PULSE4
LT BLU
B21
IGN PULSE5
YEL
B22
IGN PULSE6
TAN
RED
WHT
GRY
PUR
BLU
LT BLU
YEL
TAN
1
3
2
ICM
To SPARK PLUG
No. 1 IGNITION COIL
No. 2 IGNITION COIL
No. 3 IGNITION COIL
No. 4 IGNITION COIL
No. 5 IGNITION COIL
No. 6 IGNITION COIL
C016
18
C305
BRN
O
G101

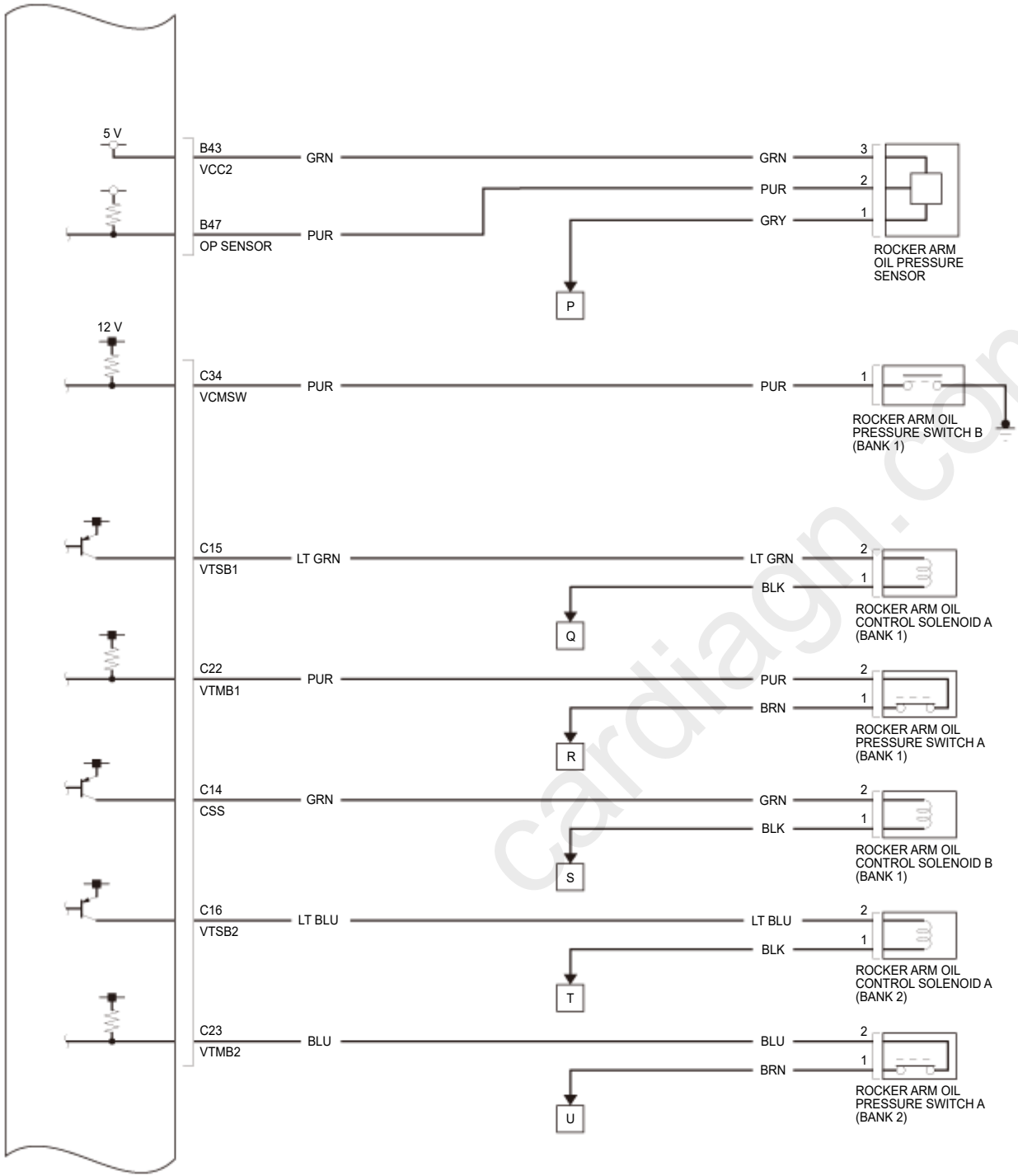
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*1: With navigation

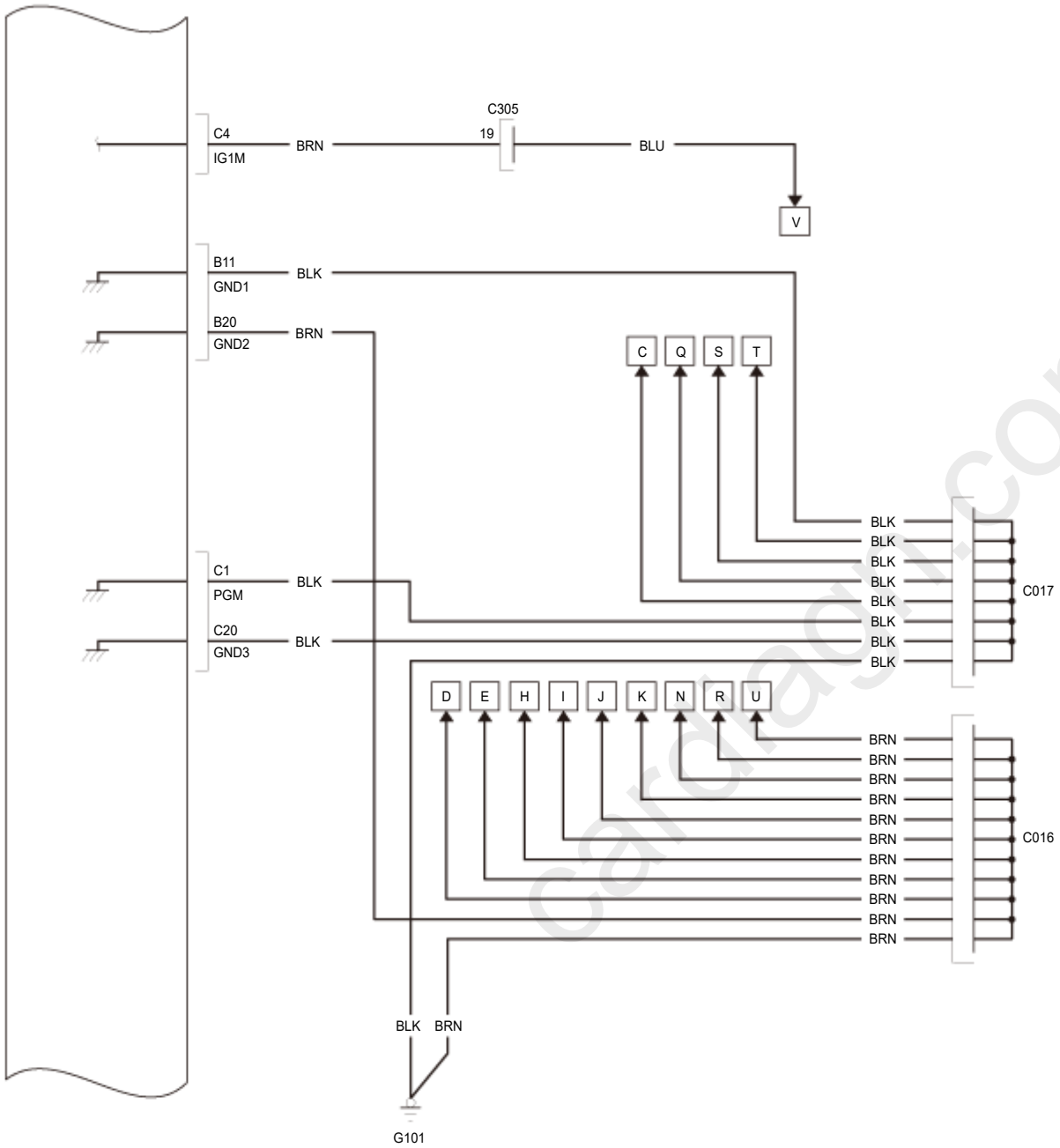
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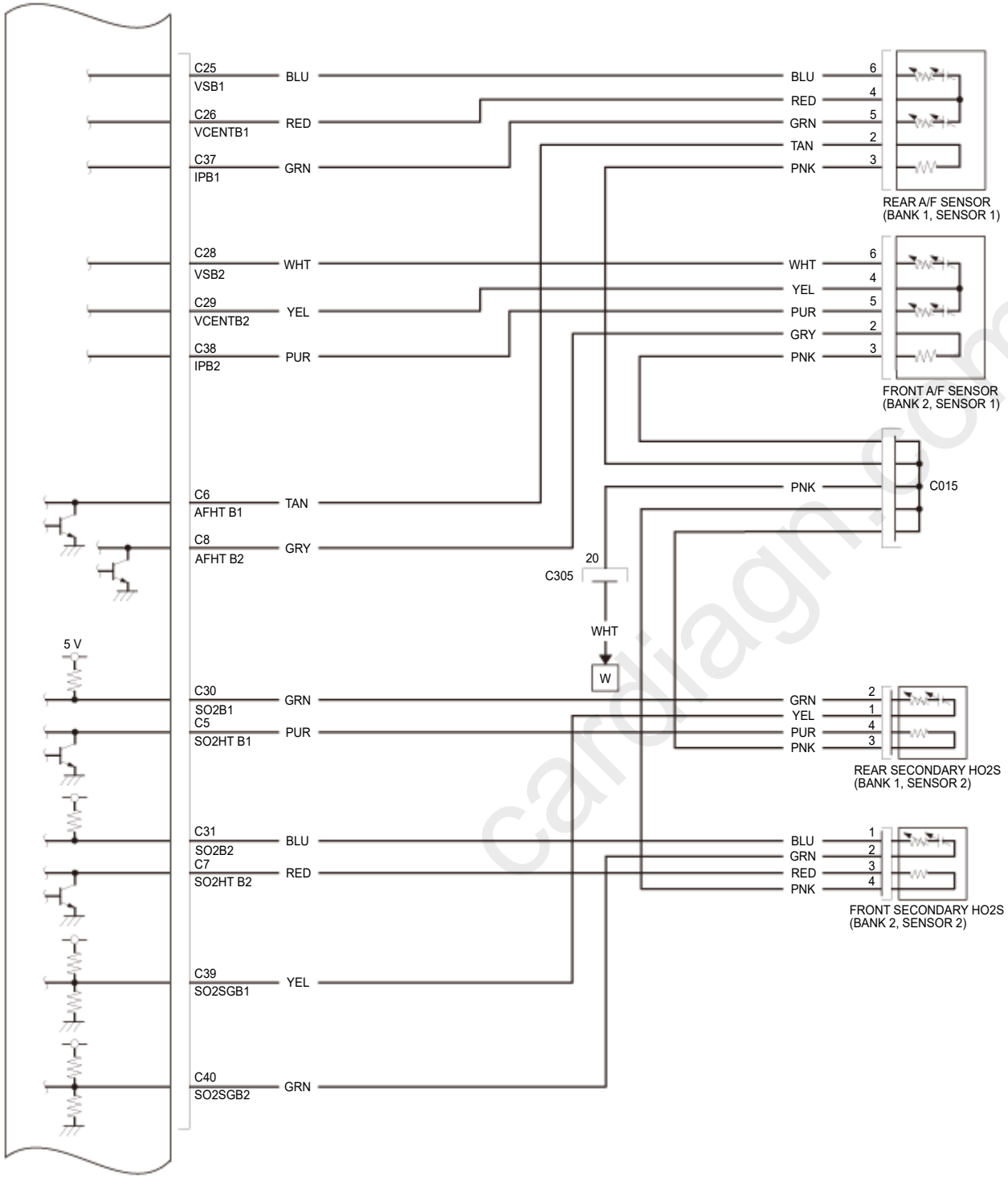


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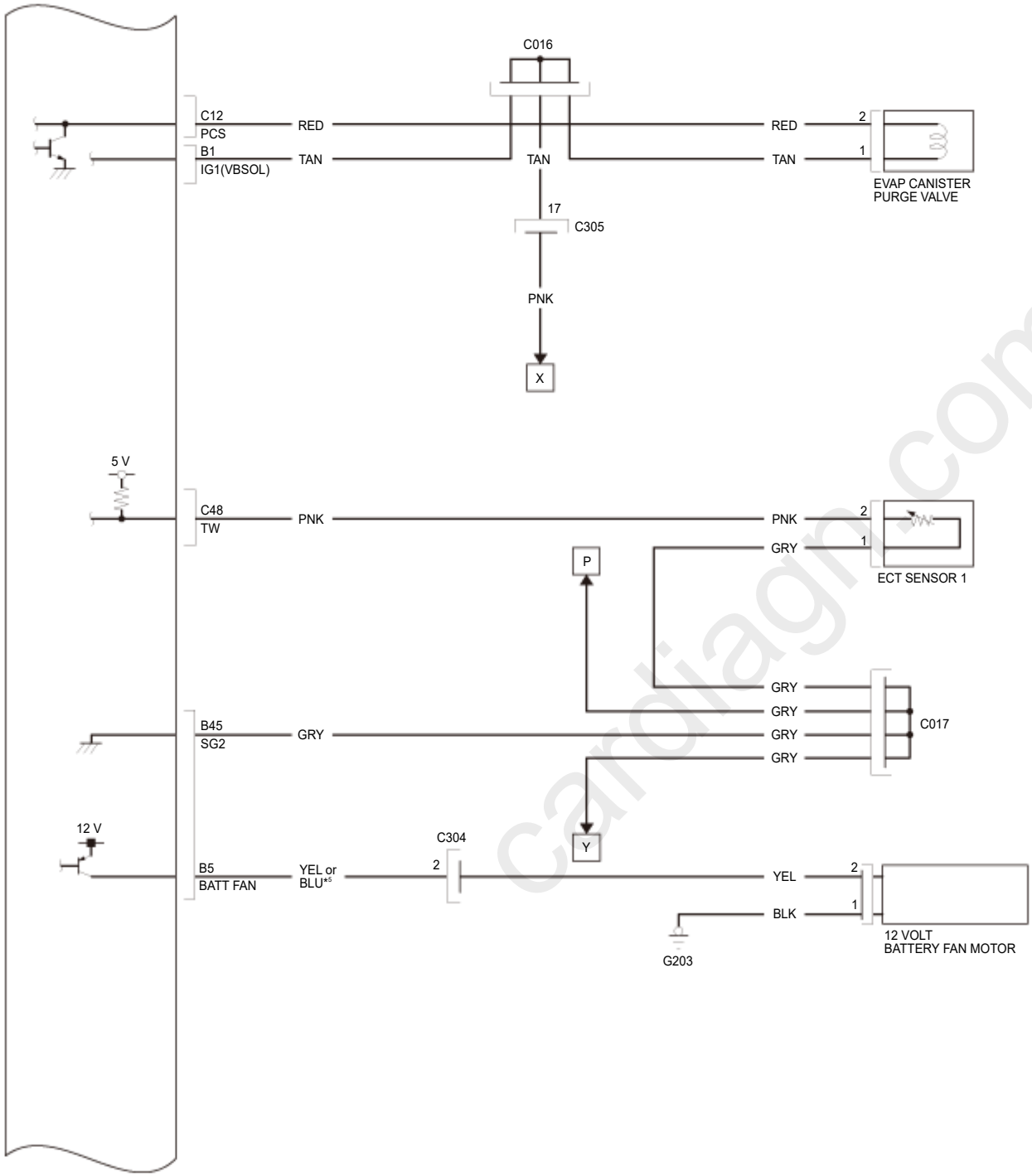
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C4
IG1M
BRN
C305
19
BLU
V
B11
GND1
BLK
B20
GND2
BRN
C
Q
S
T
BLK
BLK
BLK
BLK
BLK
BLK
BLK
BLK
C017
C1
PGM
BLK
C20
GND3
BLK
D
E
H
I
J
K
N
R
U
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
C016
BLK
BRN
G101

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C25
VSB1
BLU
C26
VCENTB1
RED
C37
IPB1
GRN
C28
VSB2
WHT
C29
VCENTB2
YEL
C38
IPB2
PUR
C6
AFHT B1
TAN
C8
AFHT B2
GRY
5 V
C30
SO2B1
GRN
C5
SO2HT B1
PUR
C31
SO2B2
BLU
C7
SO2HT B2
RED
C39
SO2SGB1
YEL
C40
SO2SGB2
GRN
BLU
RED
GRN
TAN
PNK
6
4
5
2
3
REAR A/F SENSOR
(BANK 1, SENSOR 1)
WHT
YEL
PUR
GRY
PNK
6
4
5
2
3
FRONT A/F SENSOR
(BANK 2, SENSOR 1)
PNK
C015
20
C305
WHT
W
GRN
YEL
PUR
PNK
2
1
4
3
REAR SECONDARY HO2S
(BANK 1, SENSOR 2)
BLU
GRN
RED
PNK
1
2
3
4
FRONT SECONDARY HO2S
(BANK 2, SENSOR 2)

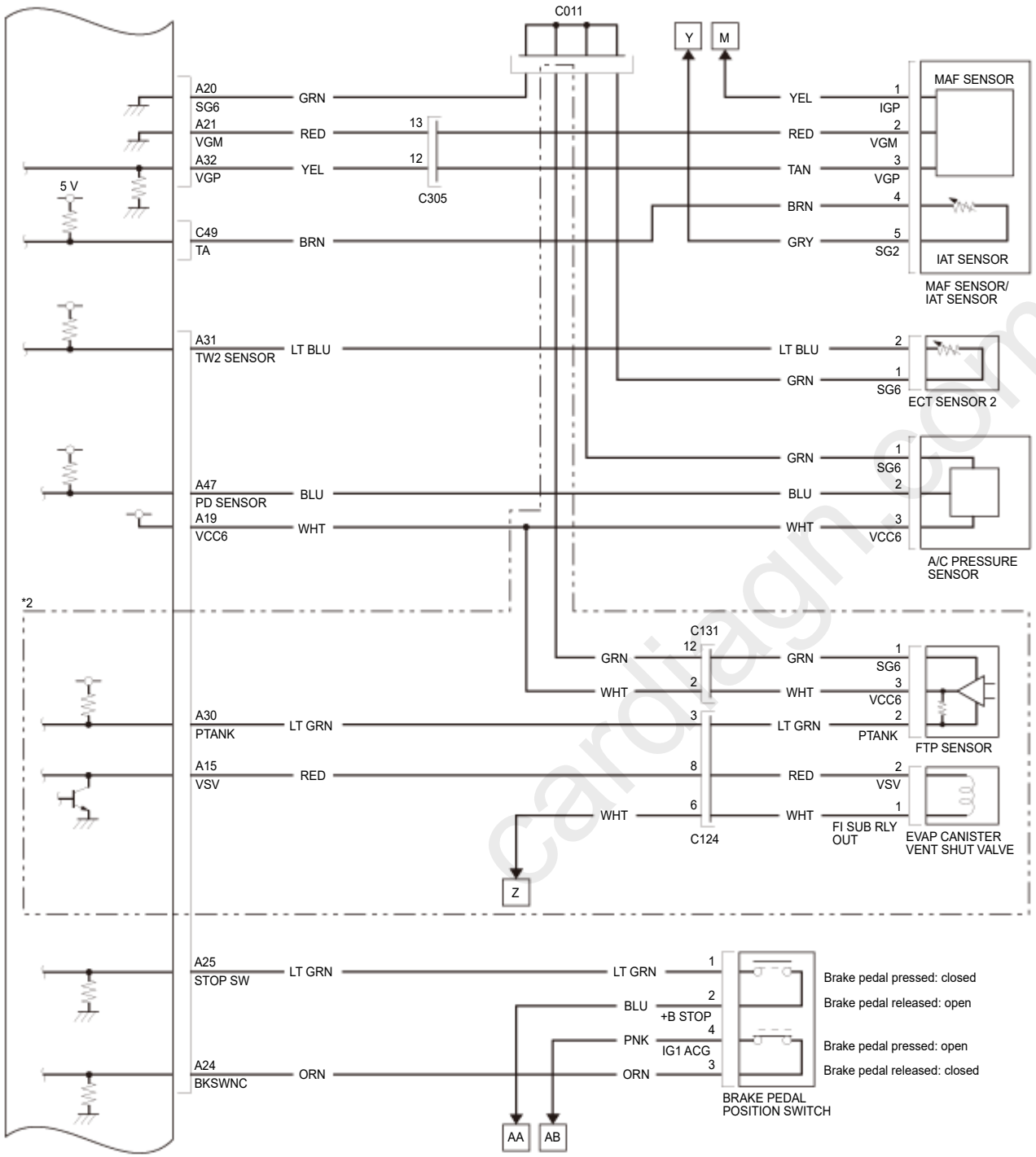
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*5: Either color can be used

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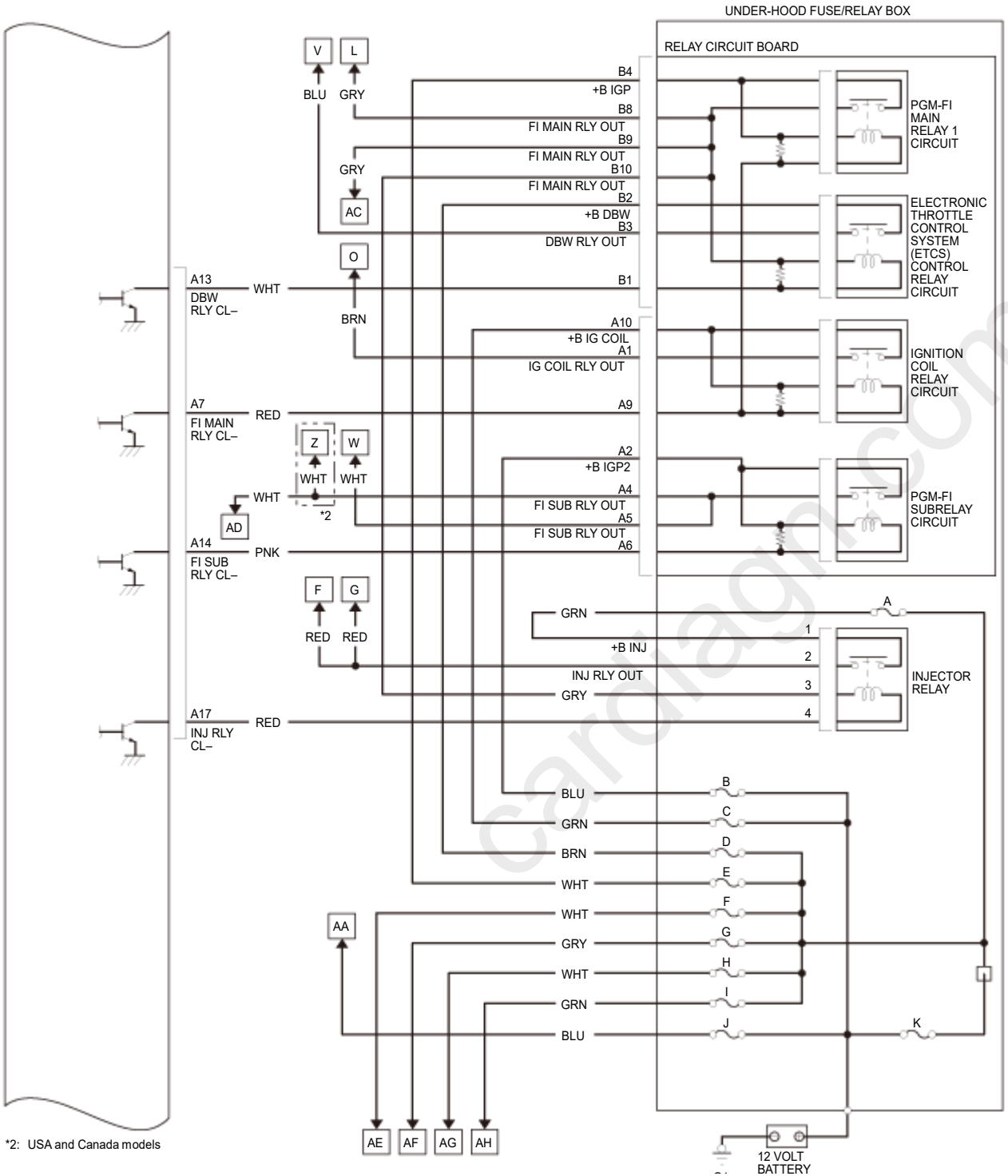
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*2: USA and Canada models

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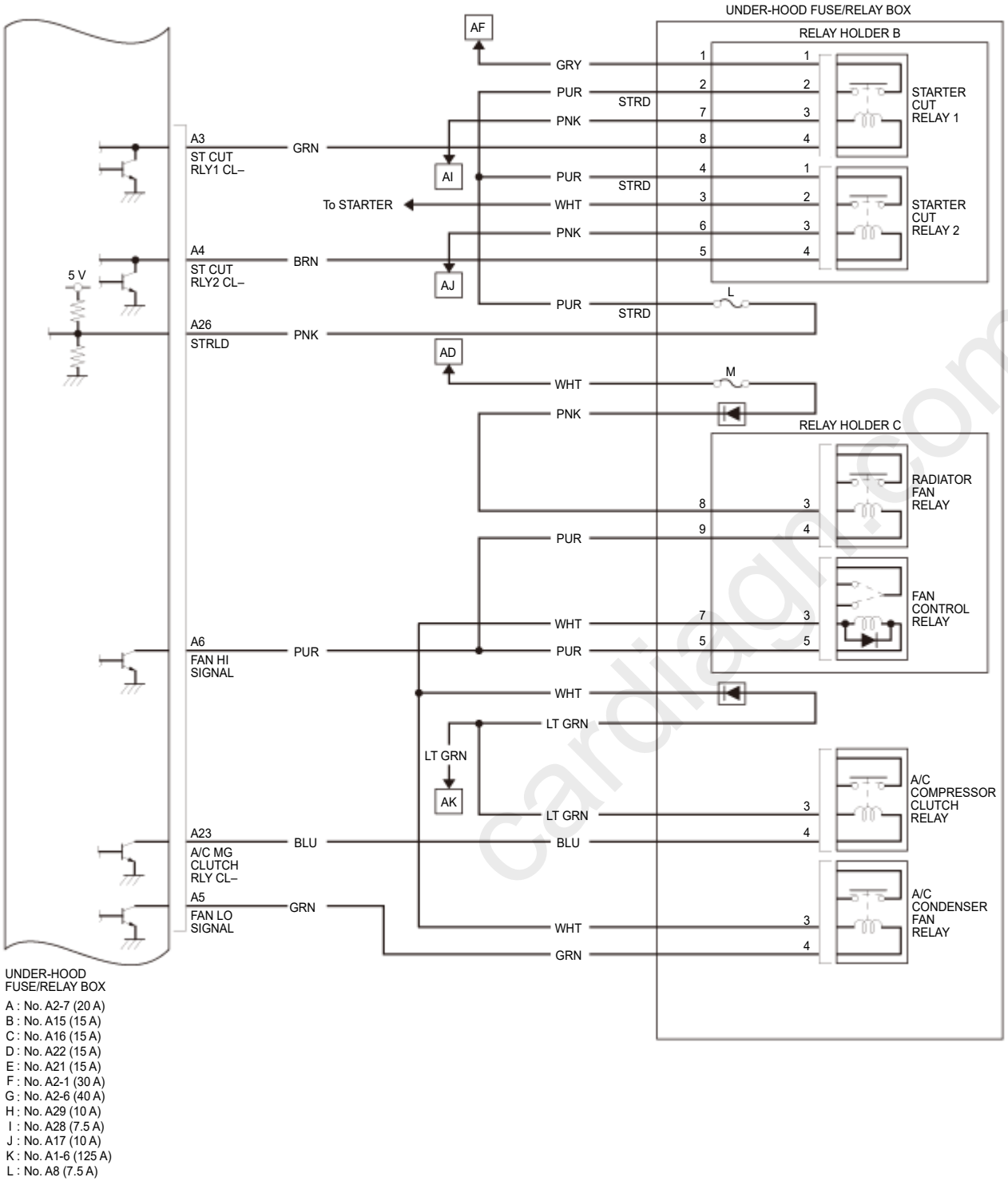


*2: USA and Canada models

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G1

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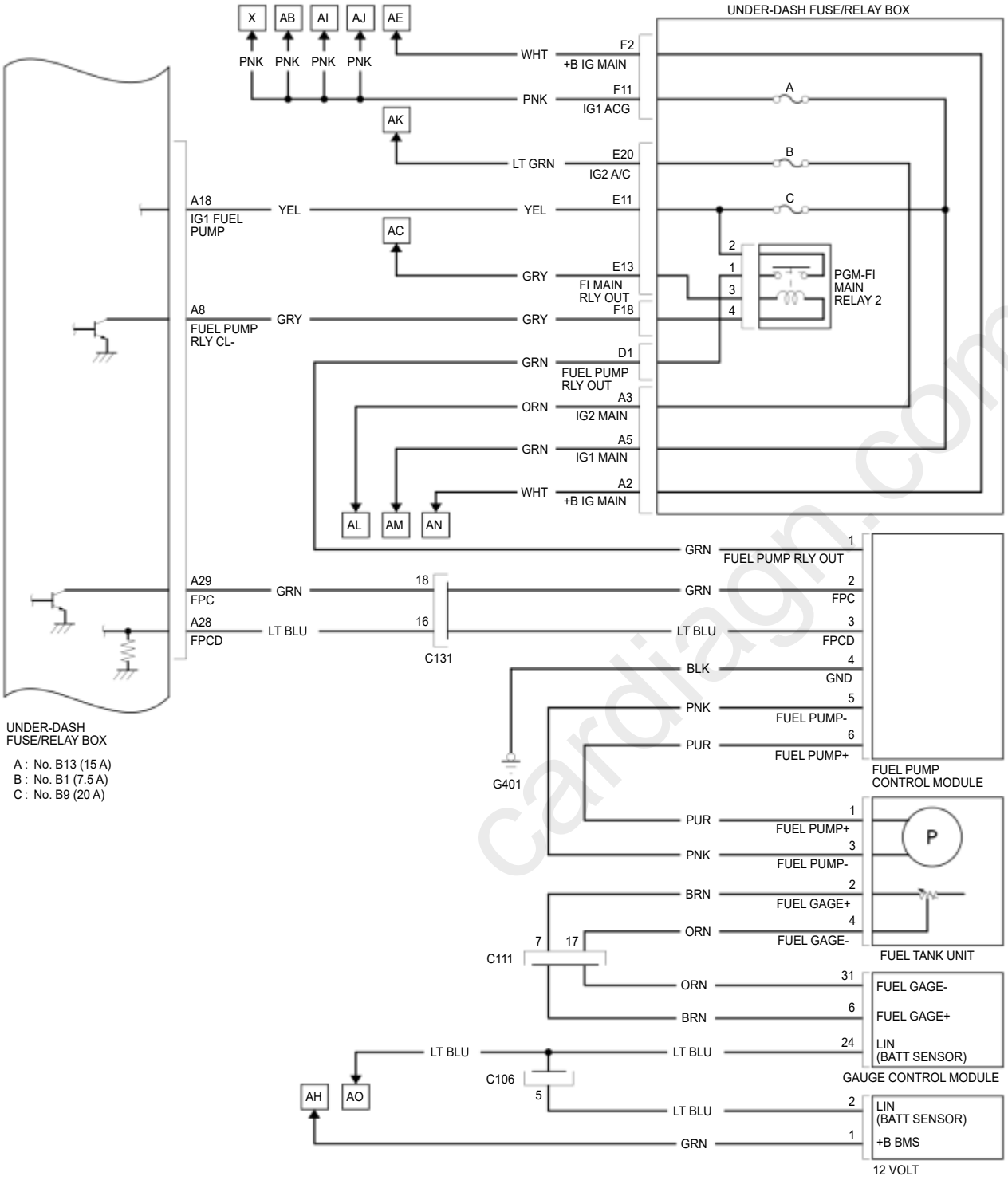


A : No. A2-7 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A17 (10 A)
K : No. A1-6 (125 A)
L : No. A8 (7.5 A)

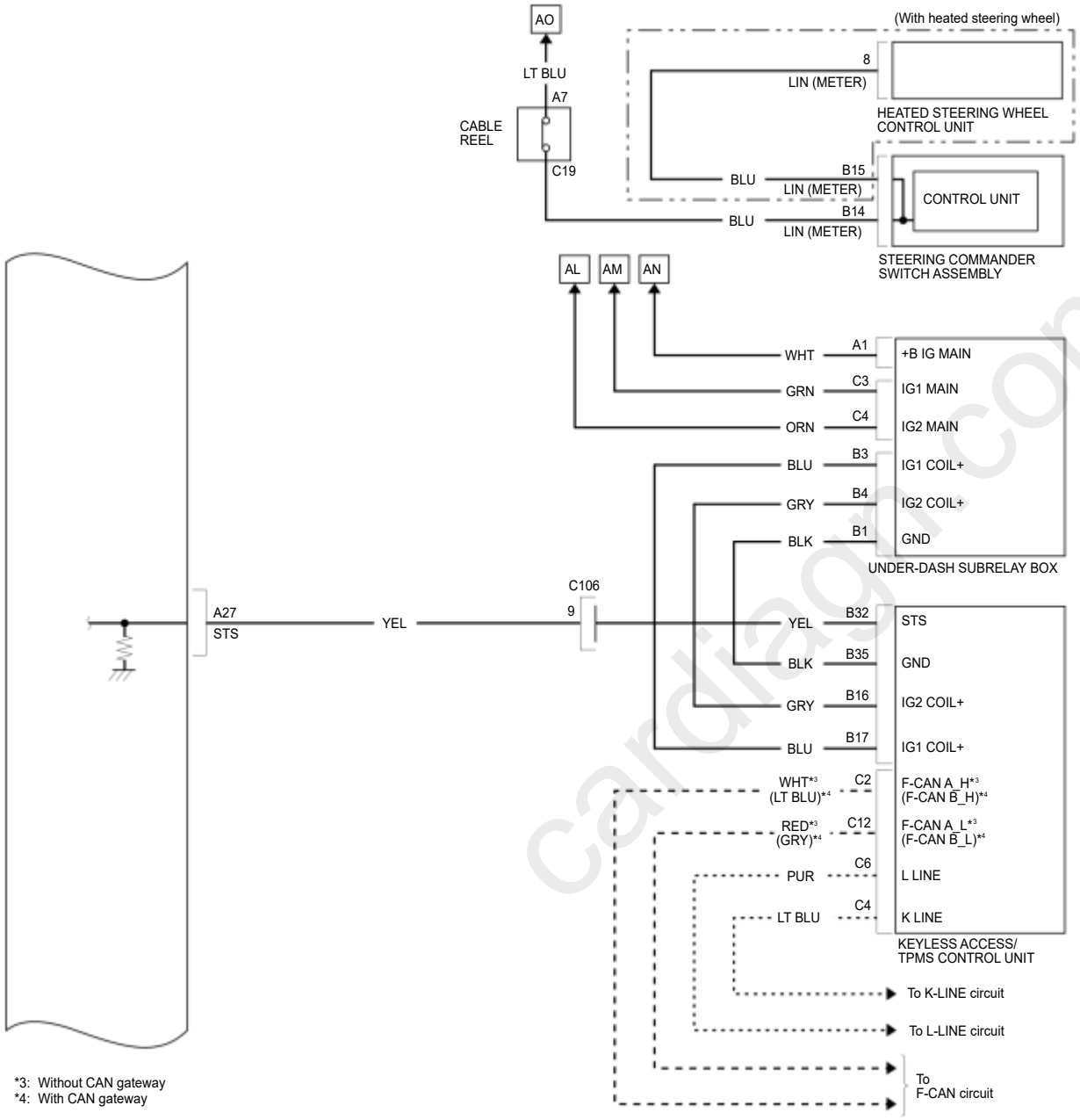
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M : No. A11 (7.5 A)

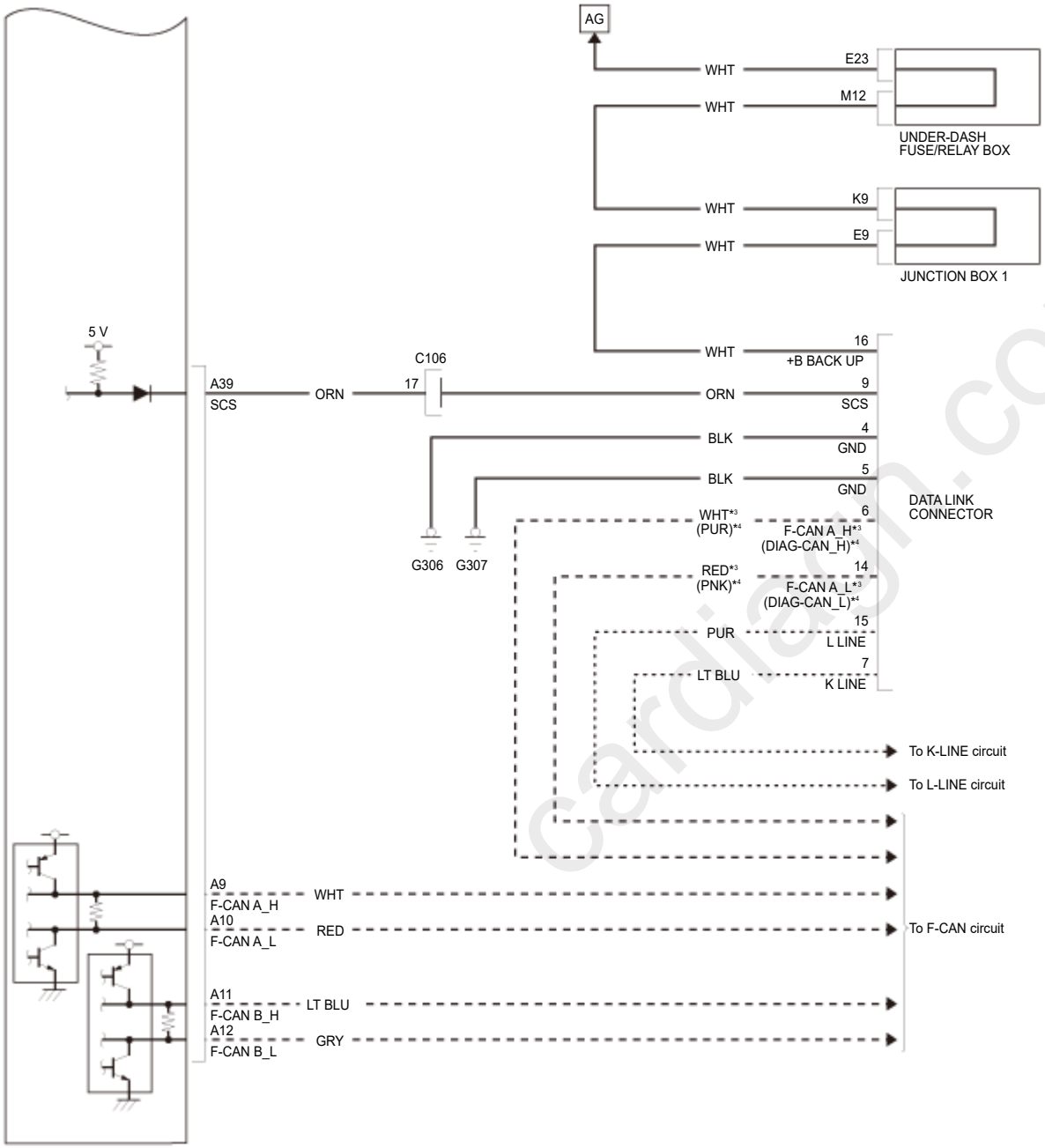
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X
AB
AI
AJ
AE
PNK
PNK
PNK
PNK
UNDER-DASH FUSE/RELAY BOX
WHT
F2
+B IG MAIN
PNK
F11
IG1 ACG
A
AK
LT GRN
E20
IG2 A/C
B
A18
IG1 FUEL PUMP
YEL
YEL
E11
C
AC
2
GRY
E13
FI MAIN RLY OUT
1
3
4
PGM-FI MAIN RELAY 2
A8
FUEL PUMP RLY CL-
GRY
GRY
F18
GRN
D1
FUEL PUMP RLY OUT
ORN
A3
IG2 MAIN
GRN
A5
IG1 MAIN
WHT
A2
+B IG MAIN
AL
AM
AN
GRN
1
FUEL PUMP RLY OUT
A29
FPC
GRN
18
GRN
2
FPC
A28
FPCD
LT BLU
16
LT BLU
3
FPCD
C131
BLK
4
GND
PNK
5
FUEL PUMP-
PUR
6
FUEL PUMP+
G401
FUEL PUMP CONTROL MODULE
PUR
1
FUEL PUMP+
PNK
3
FUEL PUMP-
P
BRN
2
FUEL GAGE+
ORN
4
FUEL GAGE-
7
17
C111
FUEL TANK UNIT
ORN
31
FUEL GAGE-
BRN
6
FUEL GAGE+
LT BLU
LT BLU
24
LIN (BATT SENSOR)
C106
5
GAUGE CONTROL MODULE
AH
AO
LT BLU
2
LIN (BATT SENSOR)
GRN
1
+B BMS
12 VOLT
UNDER-DASH FUSE/RELAY BOX
A : No. B13 (15 A)
B : No. B1 (7.5 A)
C : No. B9 (20 A)

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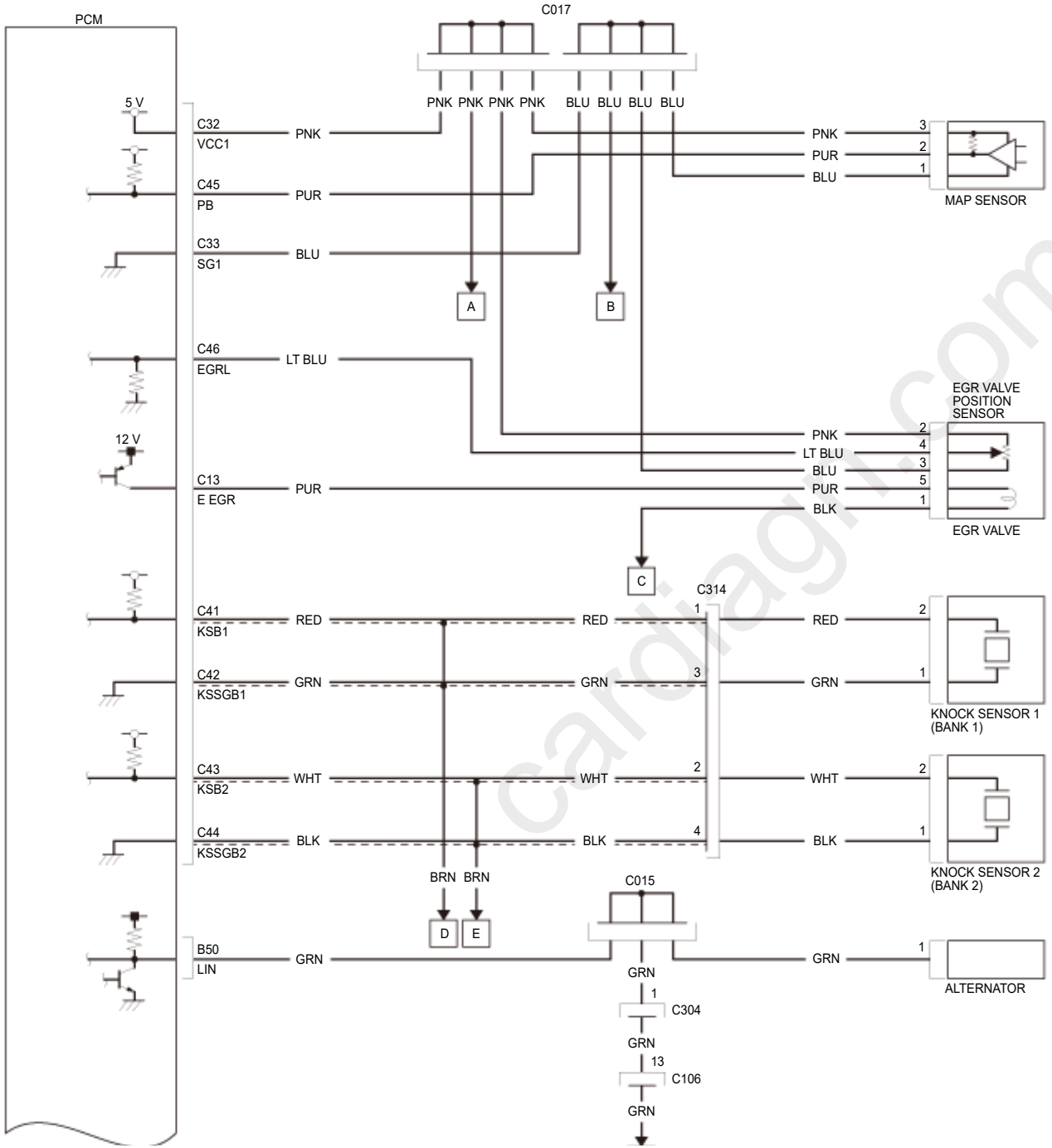


*3: Without CAN gateway
*4: With CAN gateway

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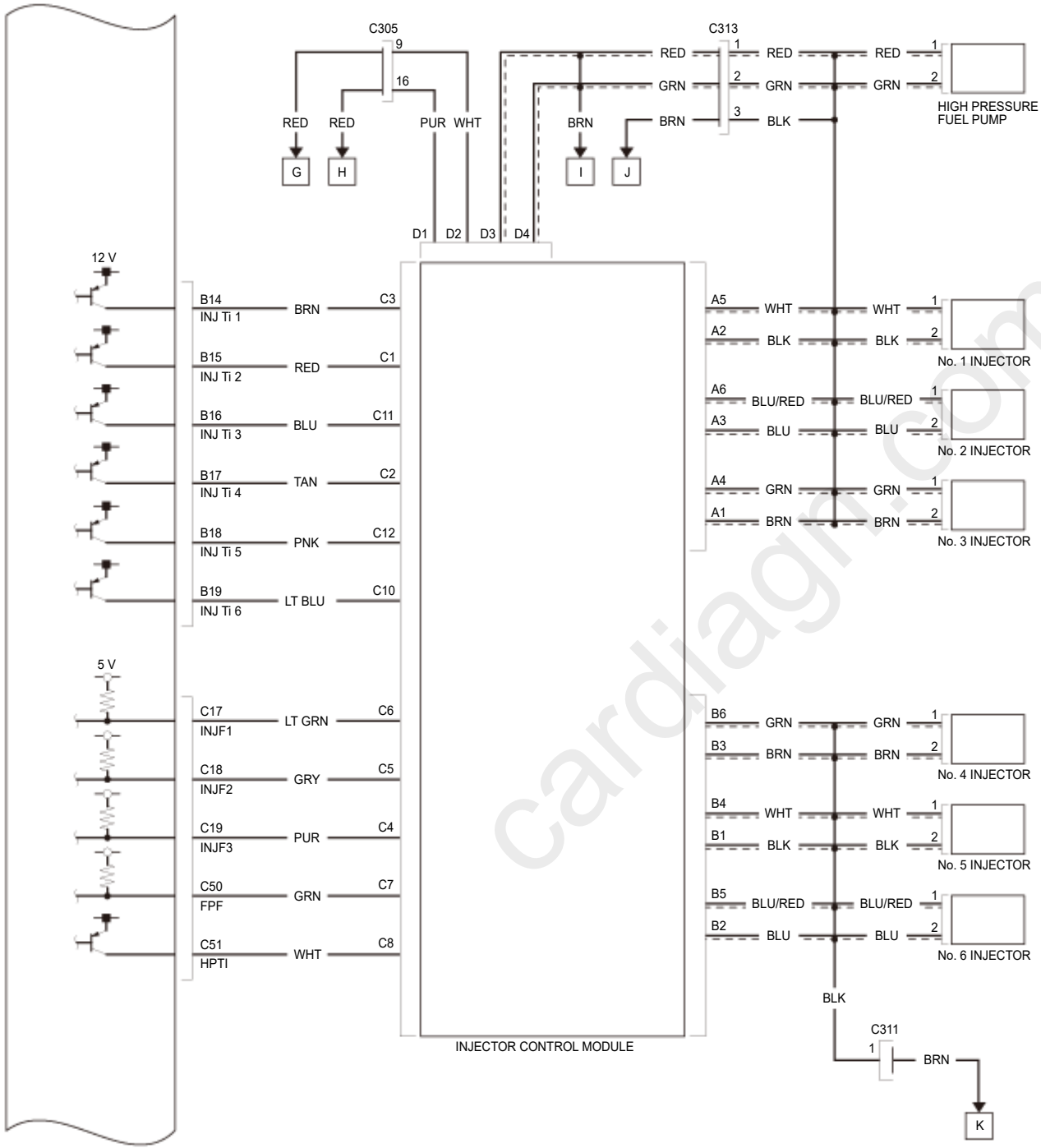
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Fuel and Emissions Systems Circuit Diagram



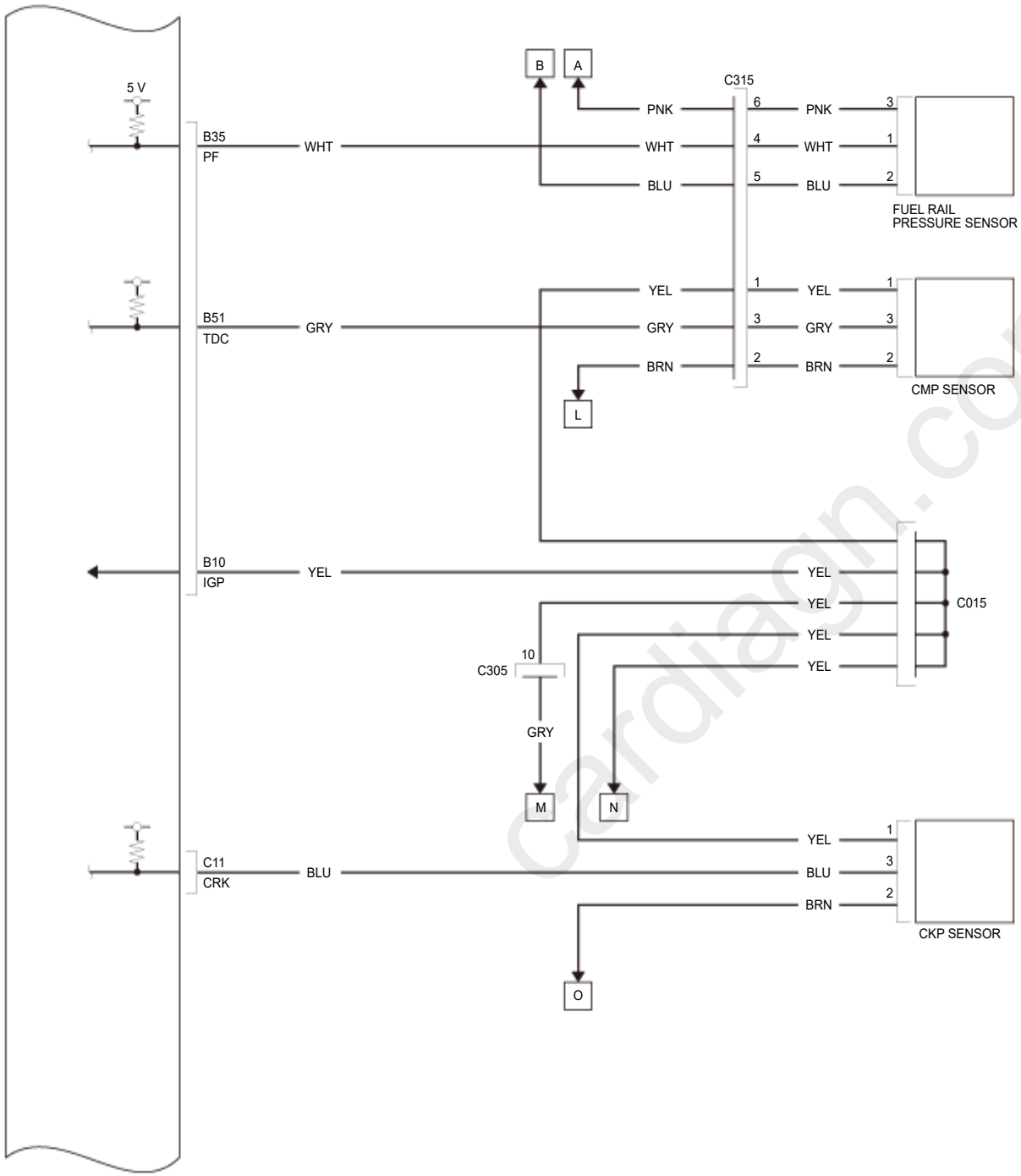


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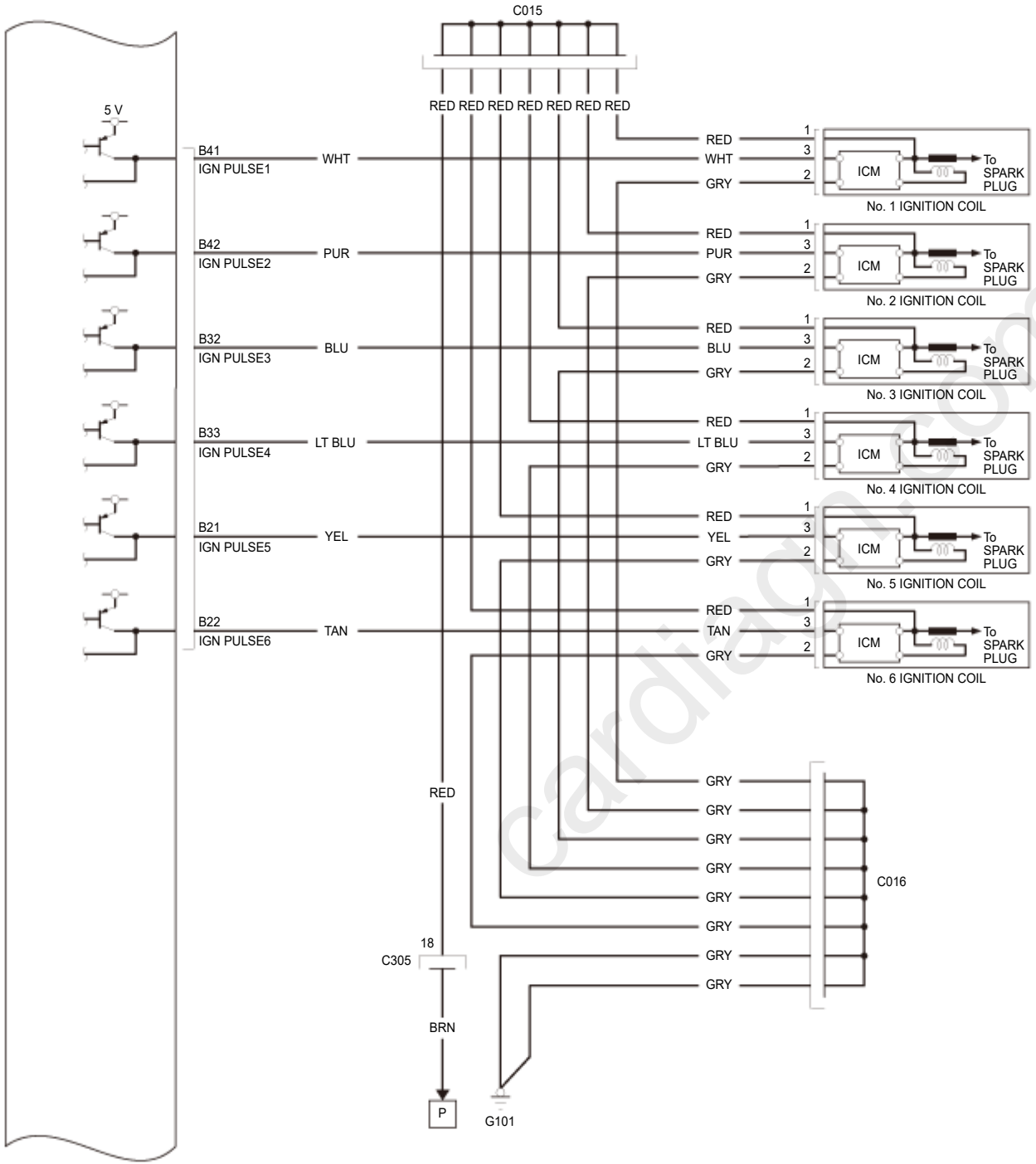
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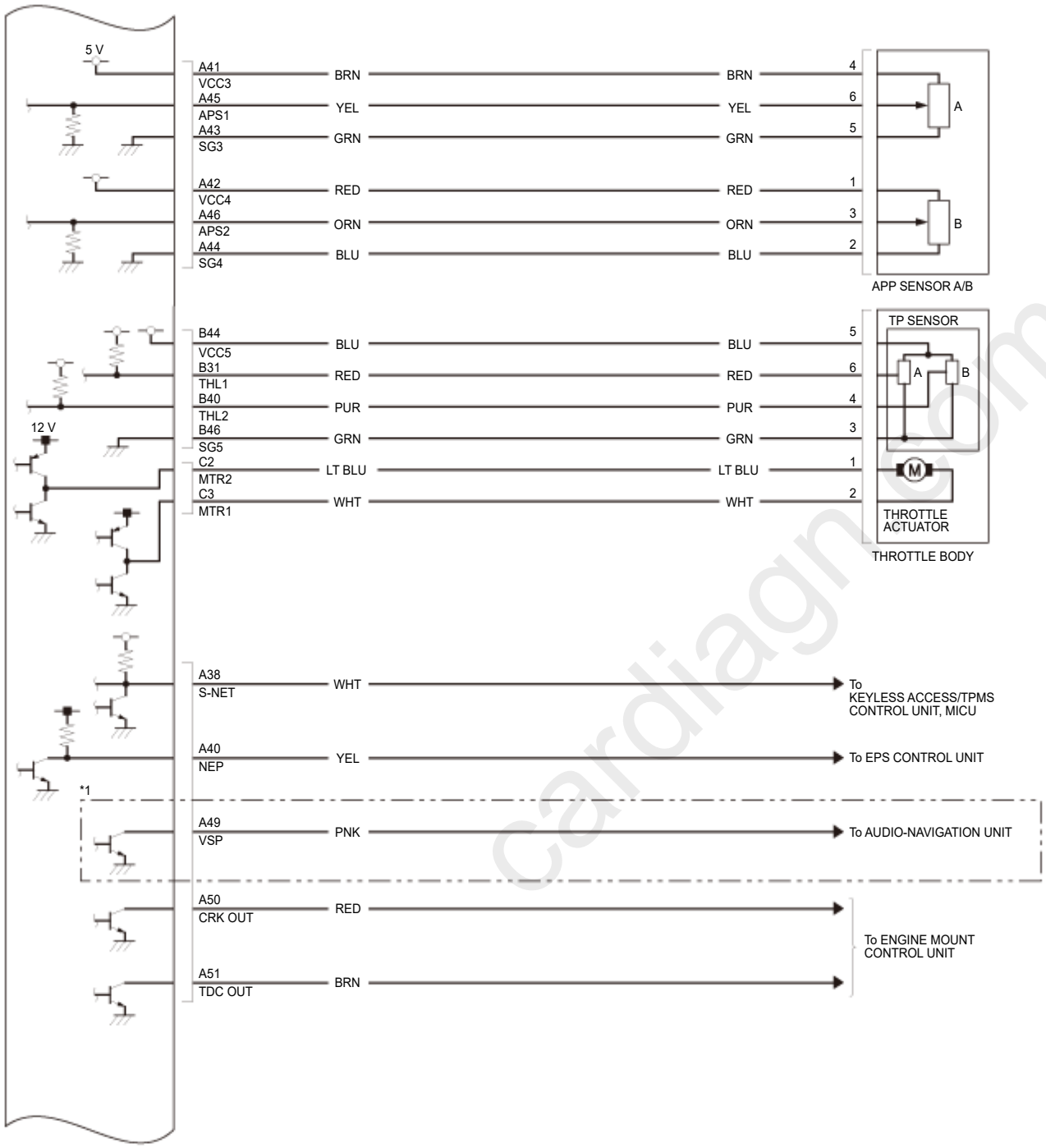


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C015
RED RED RED RED RED RED RED
5 V
B41
IGN PULSE1
WHT
B42
IGN PULSE2
PUR
B32
IGN PULSE3
BLU
B33
IGN PULSE4
LT BLU
B21
IGN PULSE5
YEL
B22
IGN PULSE6
TAN
RED
WHT
GRY
PUR
BLU
LT BLU
YEL
TAN
1
3
2
ICM
To SPARK PLUG
No. 1 IGNITION COIL
No. 2 IGNITION COIL
No. 3 IGNITION COIL
No. 4 IGNITION COIL
No. 5 IGNITION COIL
No. 6 IGNITION COIL
C016
18
C305
BRN
P
G101

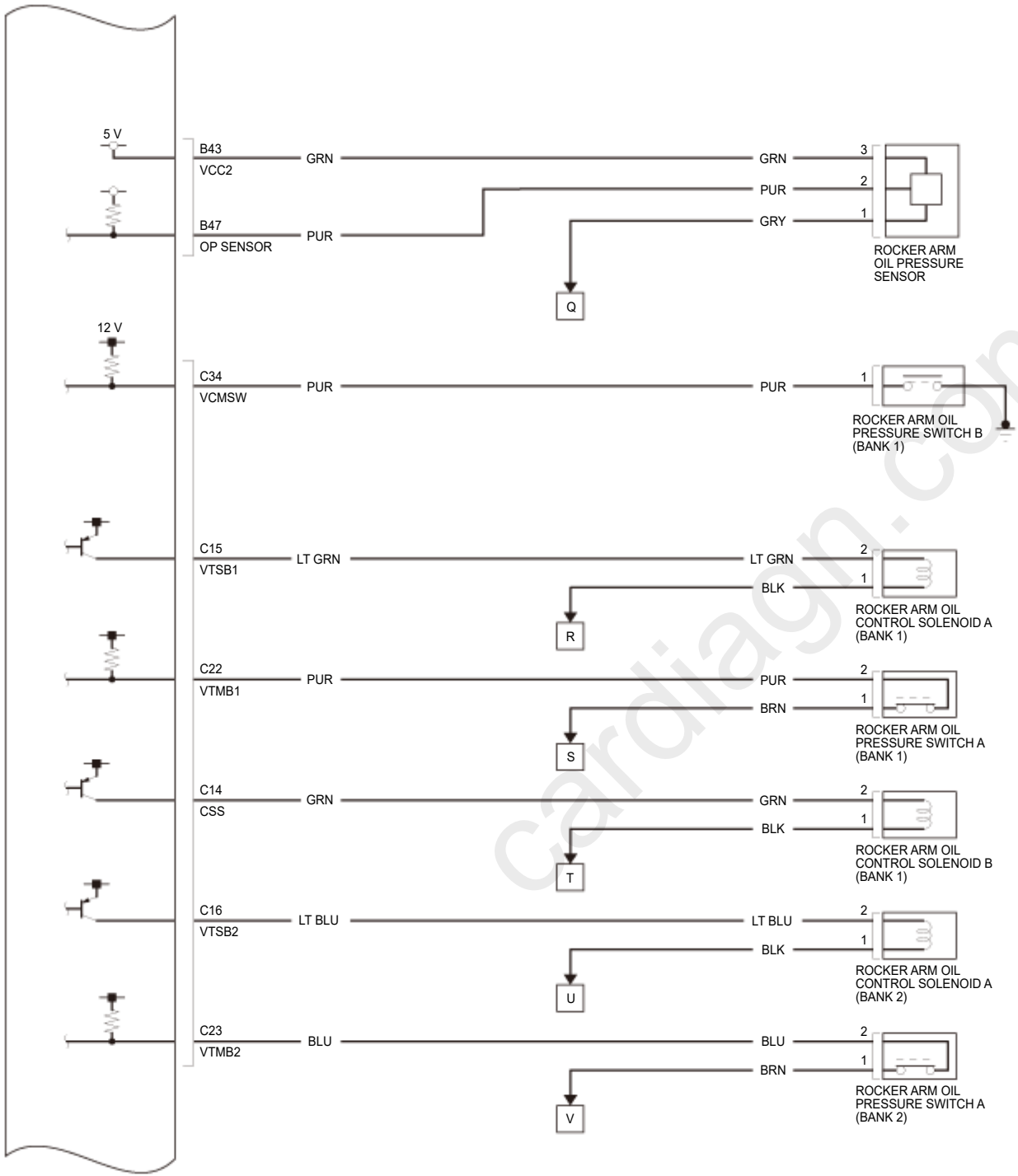
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*1: With navigation

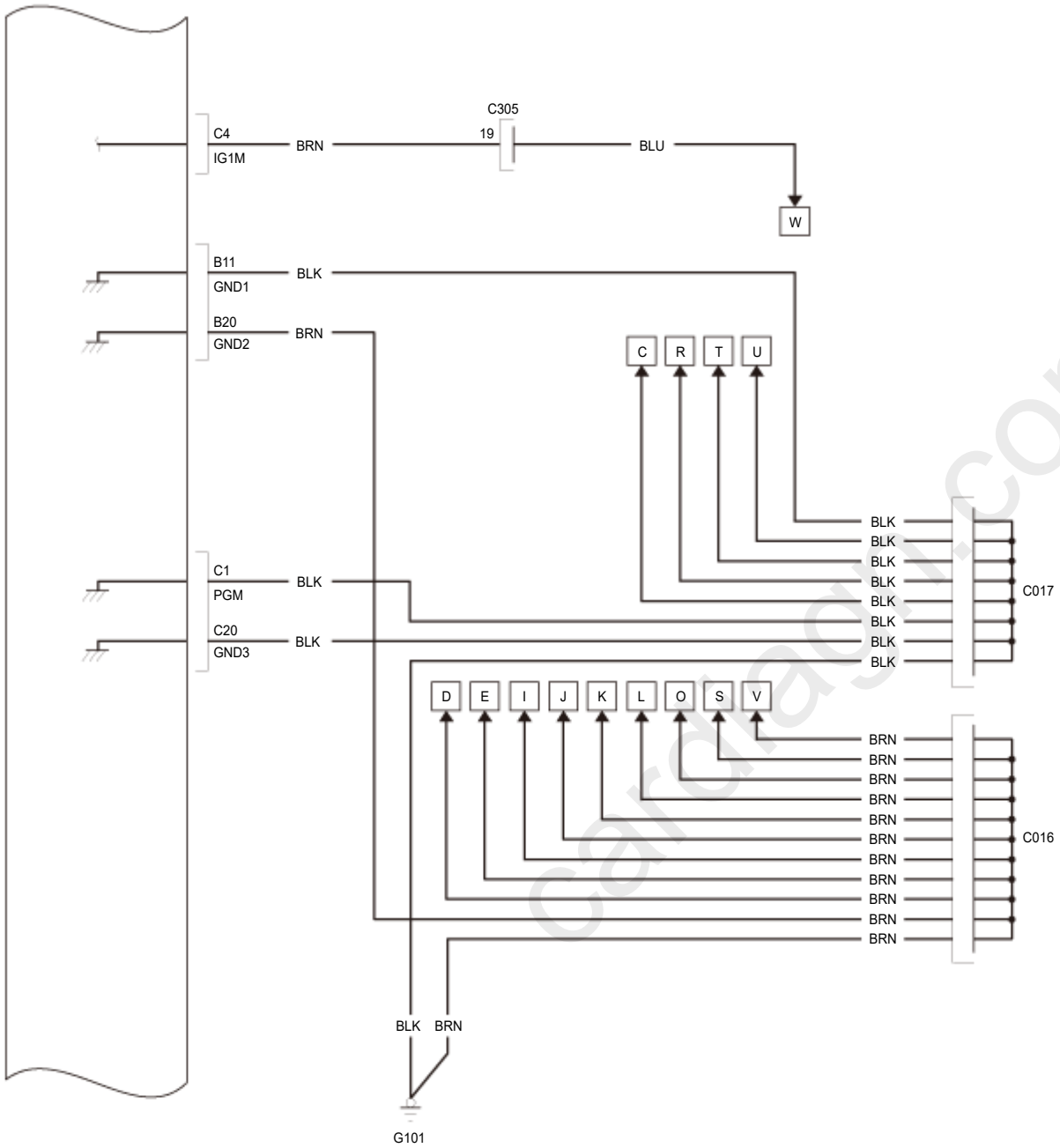
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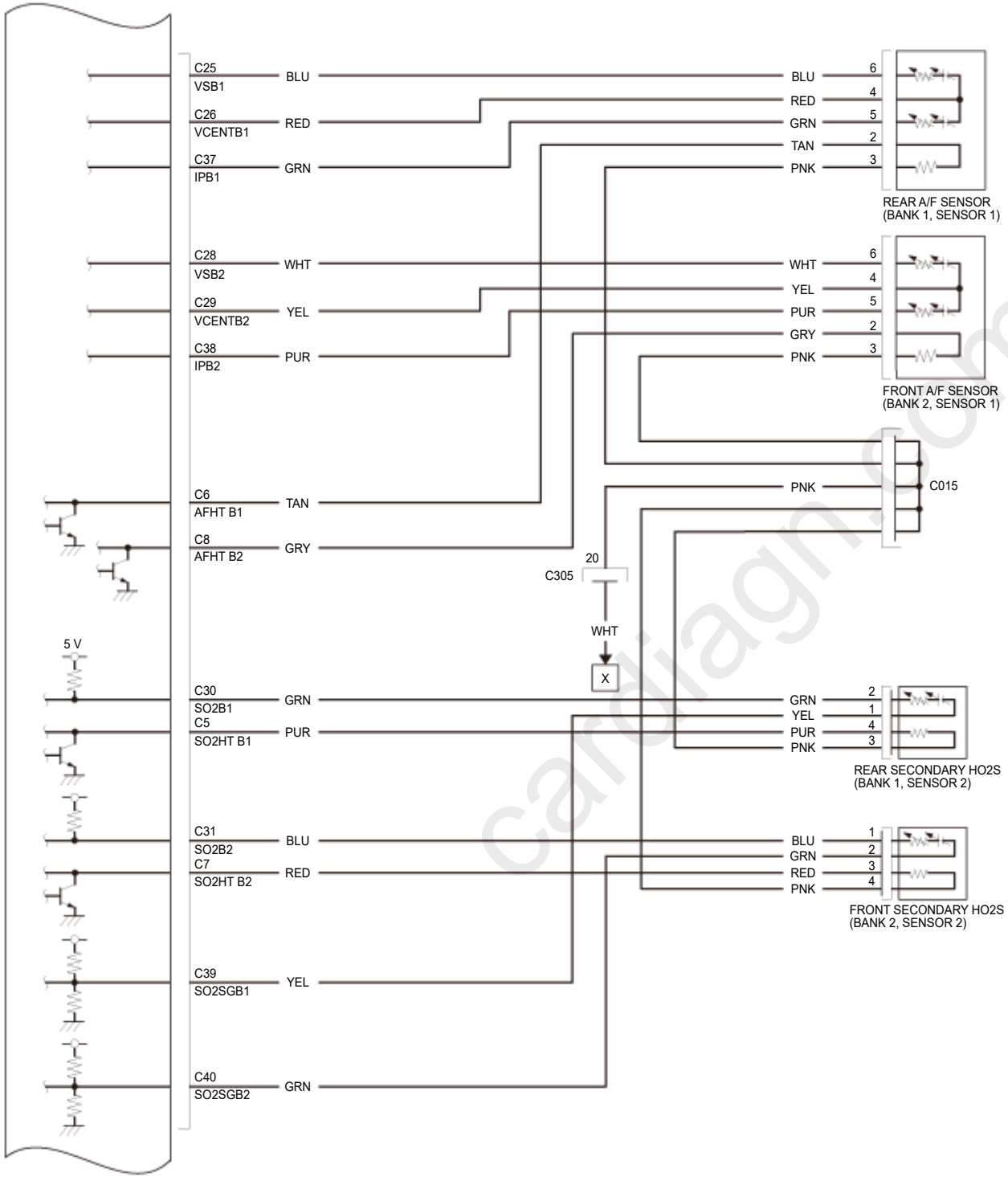


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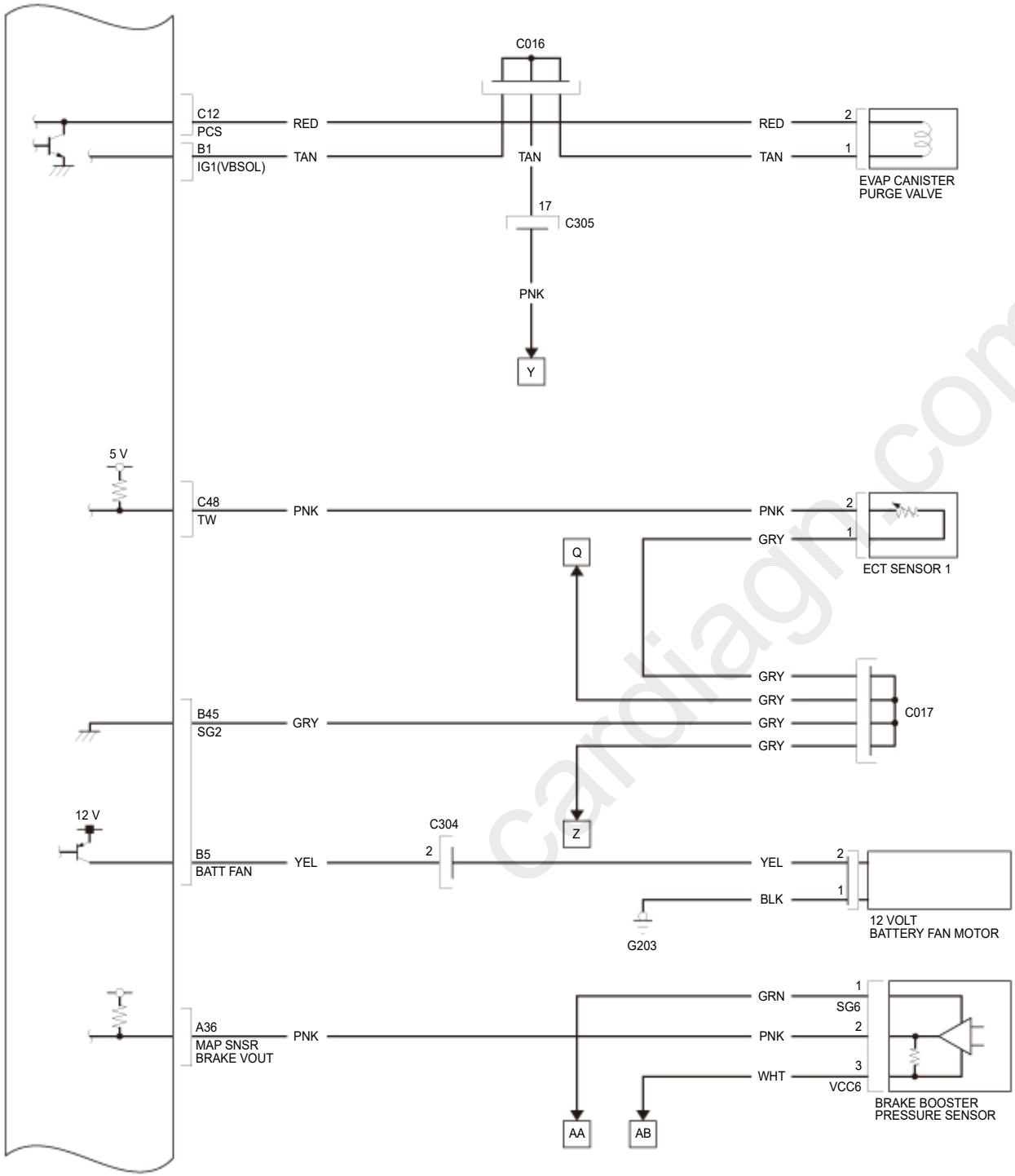
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C4
IG1M
BRN
C305
19
BLU
W
B11
GND1
BLK
B20
GND2
BRN
C
R
T
U
BLK
BLK
BLK
BLK
BLK
BLK
BLK
BLK
C017
C1
PGM
BLK
C20
GND3
BLK
D
E
I
J
K
L
O
S
V
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
C016
BLK
BRN
G101

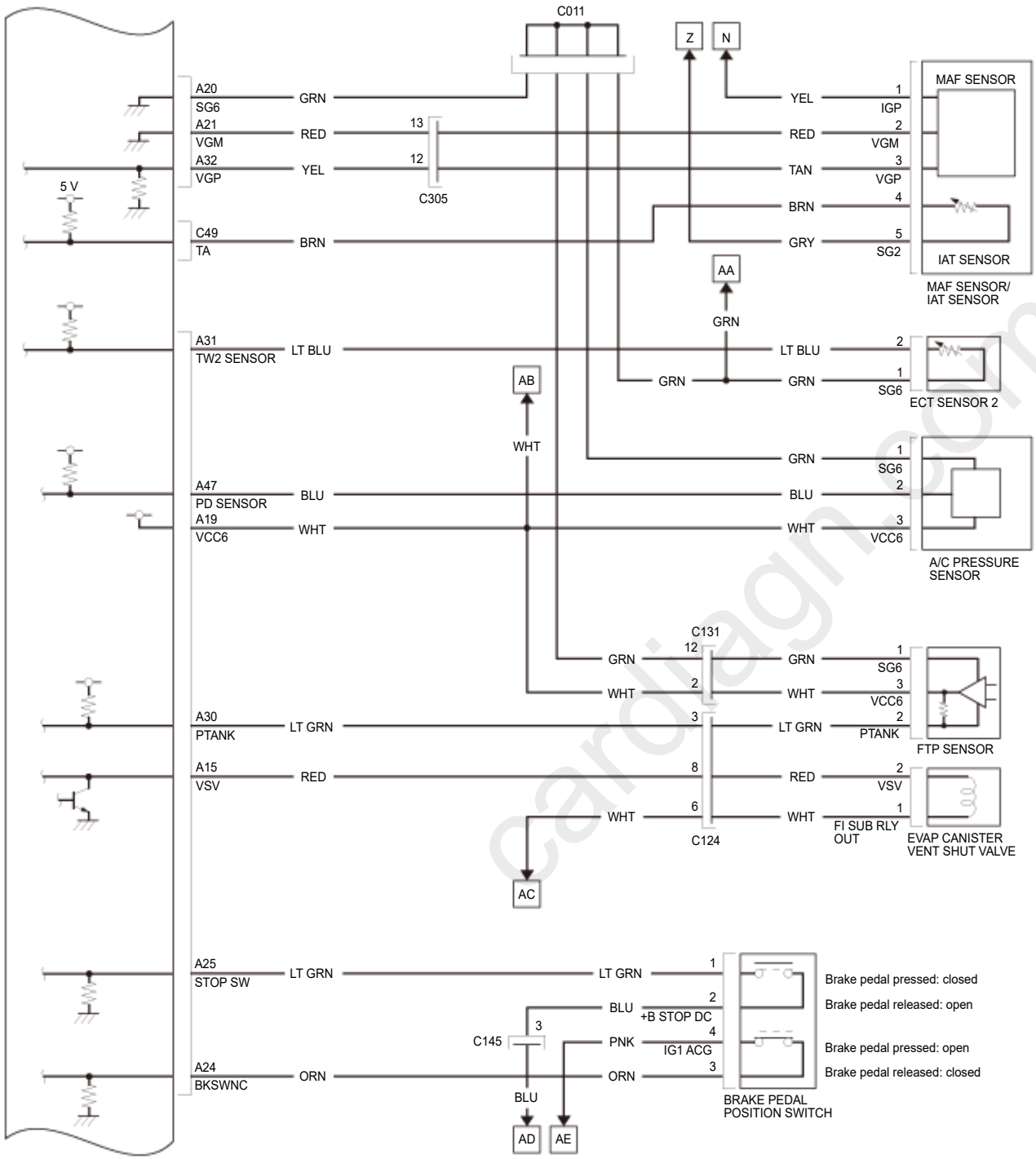
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C25
VSB1
BLU
C26
VCENTB1
RED
C37
IPB1
GRN
C28
VSB2
WHT
C29
VCENTB2
YEL
C38
IPB2
PUR
C6
AFHT B1
TAN
C8
AFHT B2
GRY
5 V
C30
SO2B1
GRN
C5
SO2HT B1
PUR
C31
SO2B2
BLU
C7
SO2HT B2
RED
C39
SO2SGB1
YEL
C40
SO2SGB2
GRN
BLU
RED
GRN
TAN
PNK
6
4
5
2
3
REAR A/F SENSOR
(BANK 1, SENSOR 1)
WHT
YEL
PUR
GRY
PNK
6
4
5
2
3
FRONT A/F SENSOR
(BANK 2, SENSOR 1)
PNK
C015
20
C305
WHT
X
GRN
YEL
PUR
PNK
2
1
4
3
REAR SECONDARY HO2S
(BANK 1, SENSOR 2)
BLU
GRN
RED
PNK
1
2
3
4
FRONT SECONDARY HO2S
(BANK 2, SENSOR 2)

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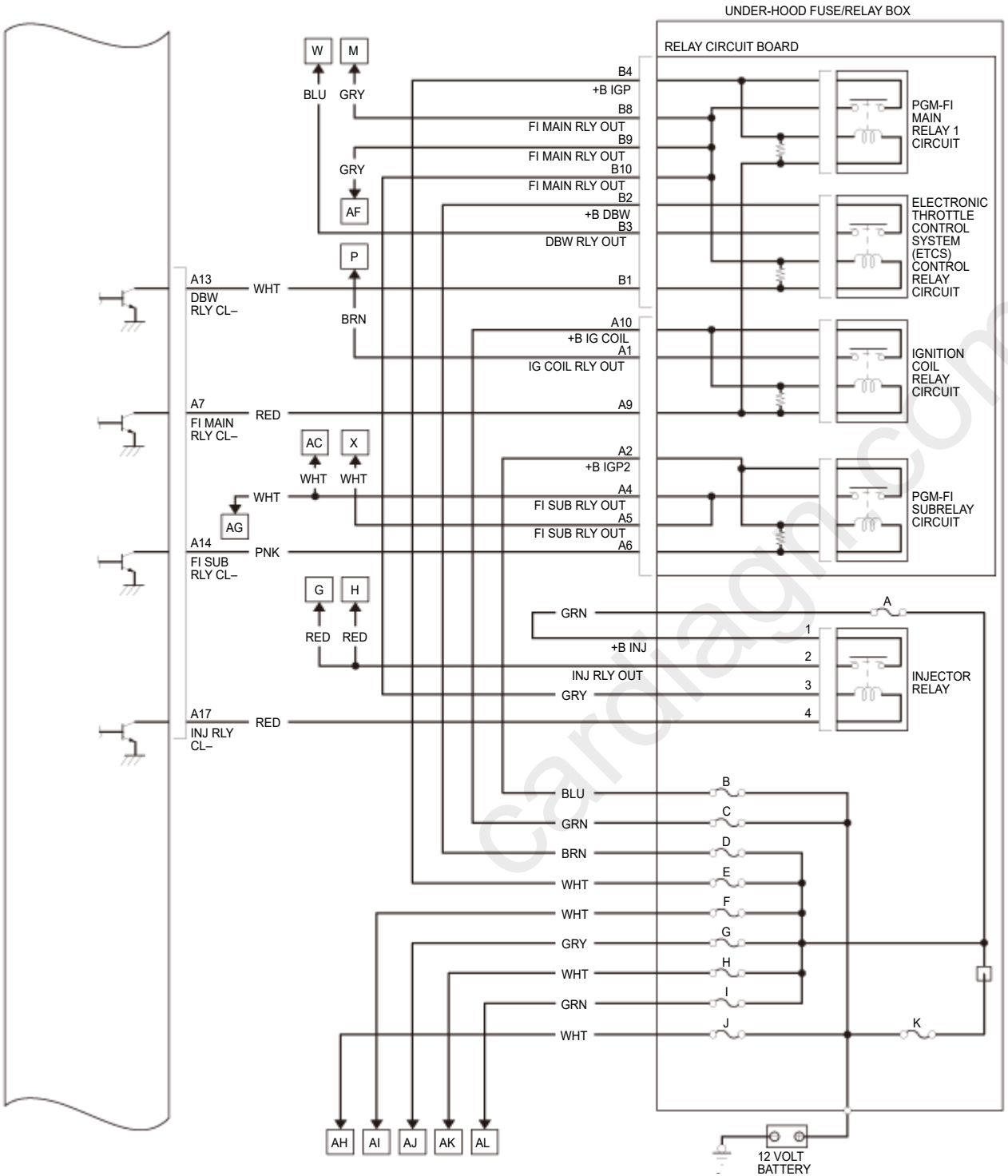

C016
C12
PCS
RED
B1
IG1(VBSOL)
TAN
TAN
RED
TAN
2
1
EVAP CANISTER
PURGE VALVE
17
C305
PNK
Y
5 V
C48
TW
PNK
PNK
GRY
2
1
ECT SENSOR 1
Q
GRY
GRY
GRY
GRY
C017
B45
SG2
GRY
12 V
C304
2
Z
B5
BATT FAN
YEL
YEL
BLK
2
1
12 VOLT
BATTERY FAN MOTOR
G203
A36
MAP SNSR
BRAKE VOUT
PNK
GRN
PNK
WHT
1
SG6
2
3
VCC6
BRAKE BOOSTER
PRESSURE SENSOR
AA
AB

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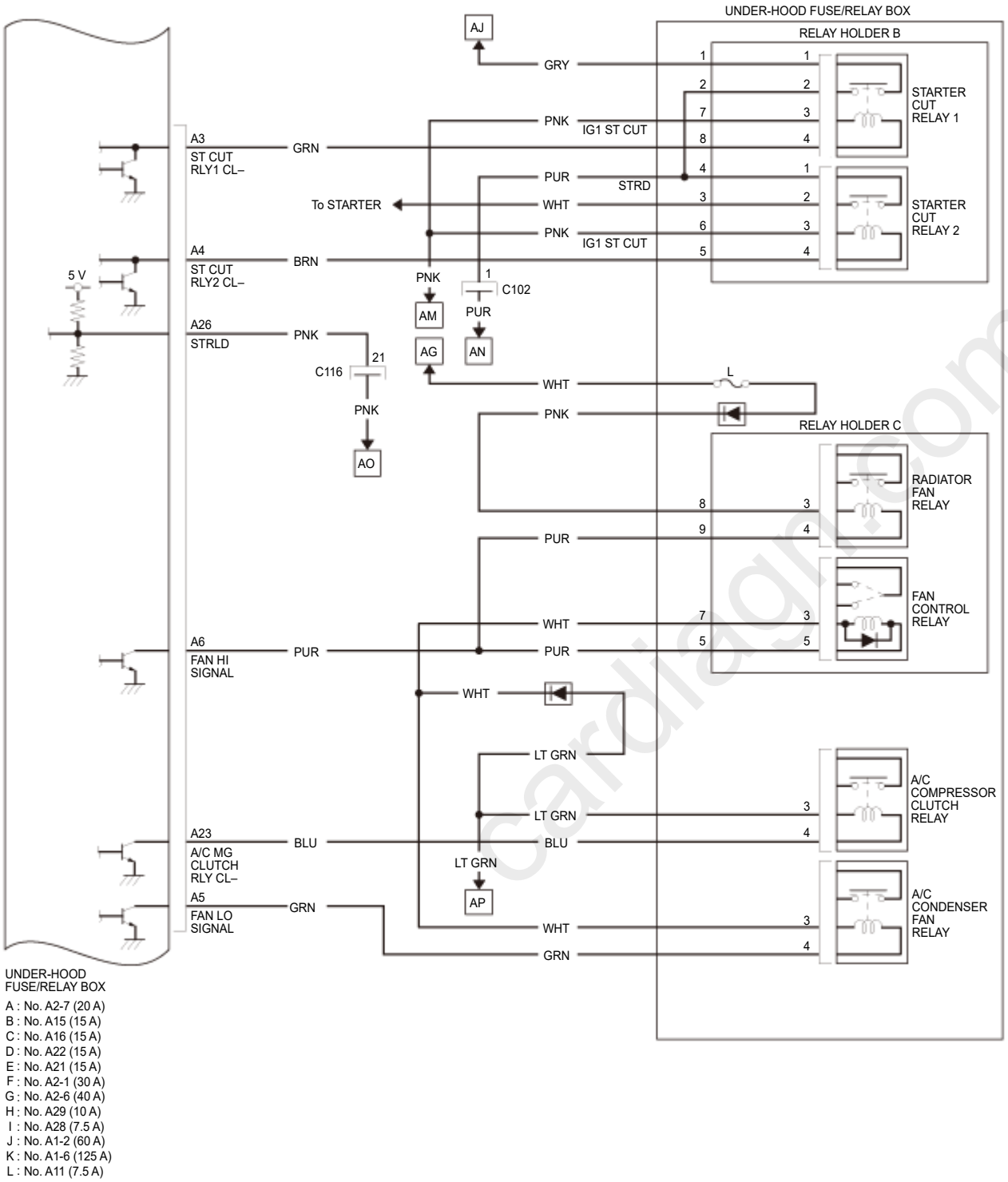


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UNDER-HOOD FUSE/RELAY BOX
RELAY CIRCUIT BOARD
W
M
BLU
GRY
B4
+B IGP
B8
FI MAIN RLY OUT
B9
FI MAIN RLY OUT
B10
FI MAIN RLY OUT
PGM-FI MAIN RELAY 1 CIRCUIT
GRY
AF
B2
+B DBW
B3
DBW RLY OUT
ELECTRONIC THROTTLE CONTROL SYSTEM (ETCS) CONTROL RELAY CIRCUIT
P
A13
DBW RLY CL–
WHT
B1
BRN
A10
+B IG COIL
A1
IG COIL RLY OUT
IGNITION COIL RELAY CIRCUIT
A7
FI MAIN RLY CL–
RED
A9
AC
X
WHT
WHT
A2
+B IGP2
WHT
A4
FI SUB RLY OUT
A5
FI SUB RLY OUT
A6
PGM-FI SUBRELAY CIRCUIT
AG
A14
FI SUB RLY CL–
PNK
G
H
RED
RED
GRN
A
1
+B INJ
2
INJ RLY OUT
3
GRY
4
INJECTOR RELAY
A17
INJ RLY CL–
RED
BLU
B
GRN
C
BRN
D
WHT
E
WHT
F
GRY
G
WHT
H
GRN
I
WHT
J
K
AH
AI
AJ
AK
AL
12 VOLT BATTERY

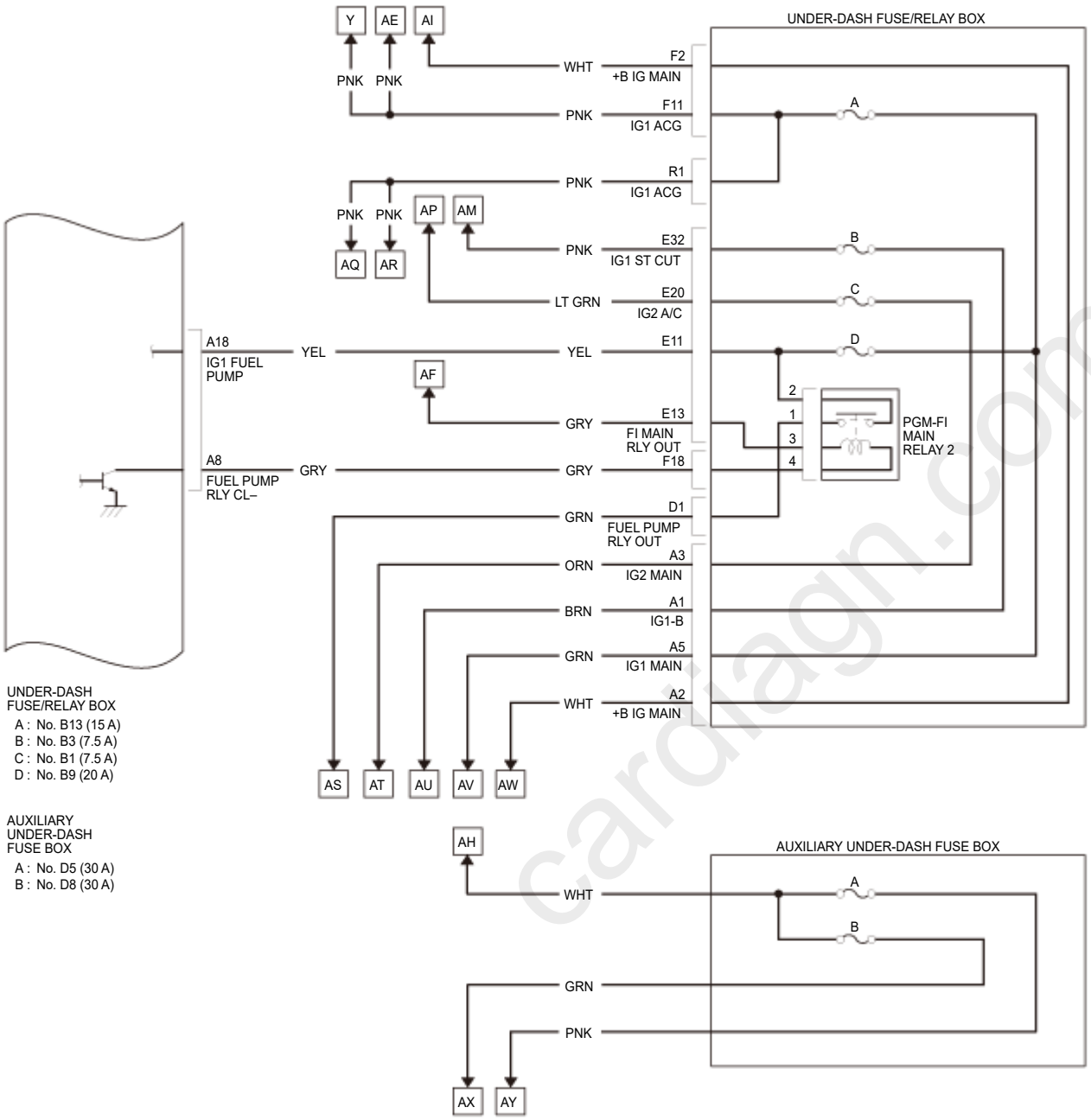
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A : No. A2-7 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A1-2 (60 A)
K : No. A1-6 (125 A)
L : No. A11 (7.5 A)

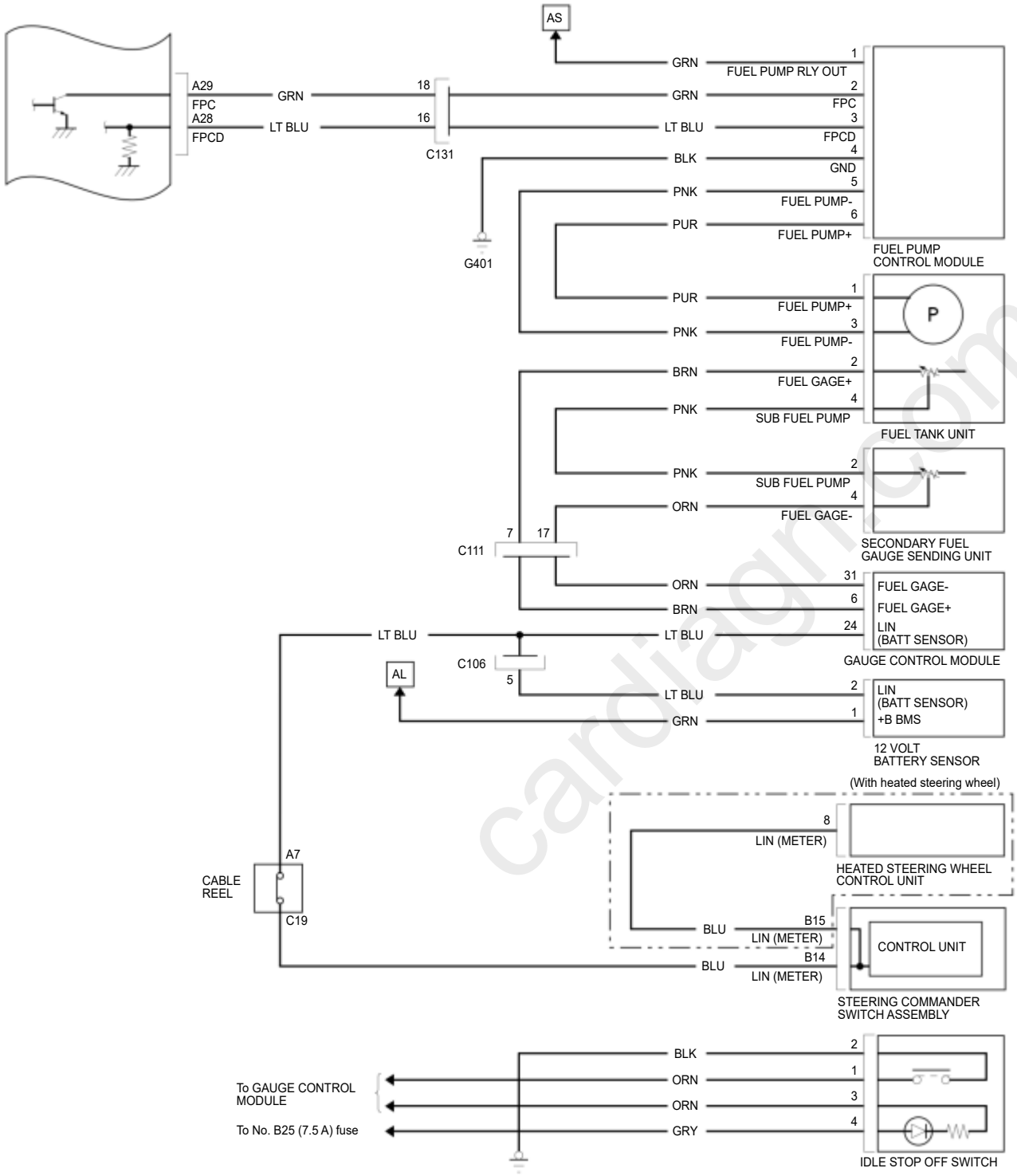
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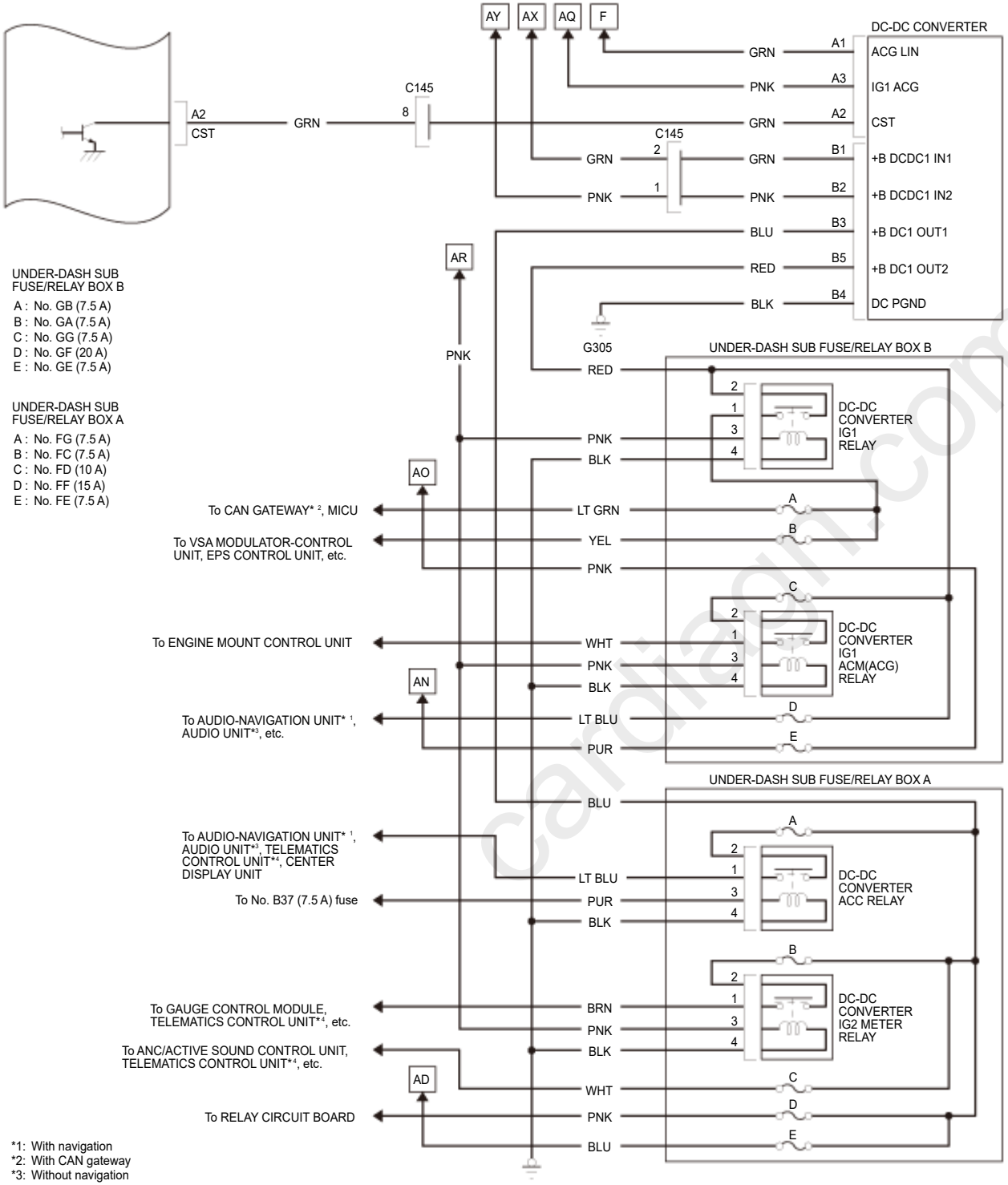
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UNDER-DASH SUB FUSE/RELAY BOX B

A : No. GB (7.5 A)
B : No. GA (7.5 A)
C : No. GG (7.5 A)
D : No. GF (20 A)
E : No. GE (7.5 A)

UNDER-DASH SUB FUSE/RELAY BOX A

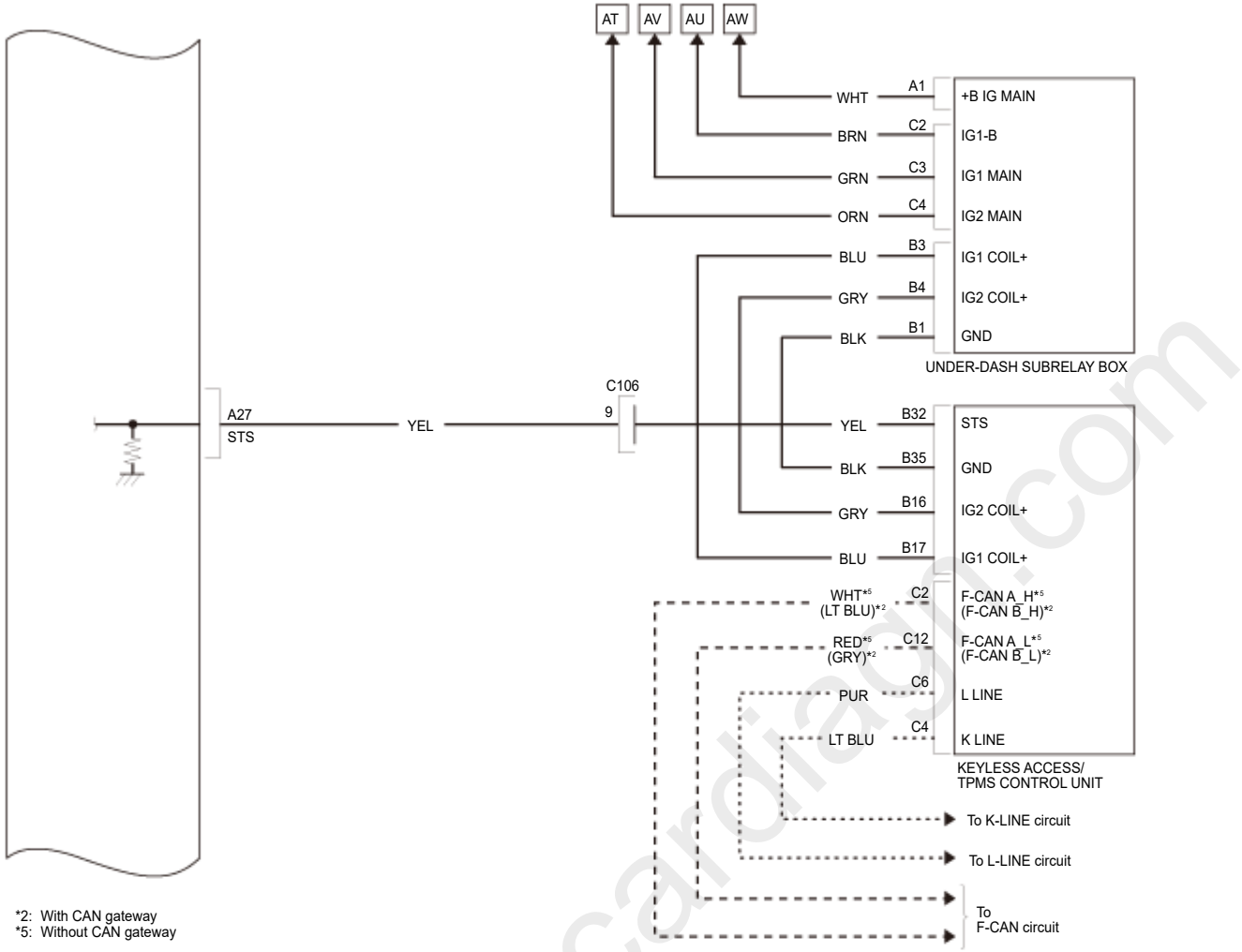
A : No. FG (7.5 A)
B : No. FC (7.5 A)
C : No. FD (10 A)
D : No. FF (15 A)
E : No. FE (7.5 A)

*1: With navigation
*2: With CAN gateway
*3: Without navigation

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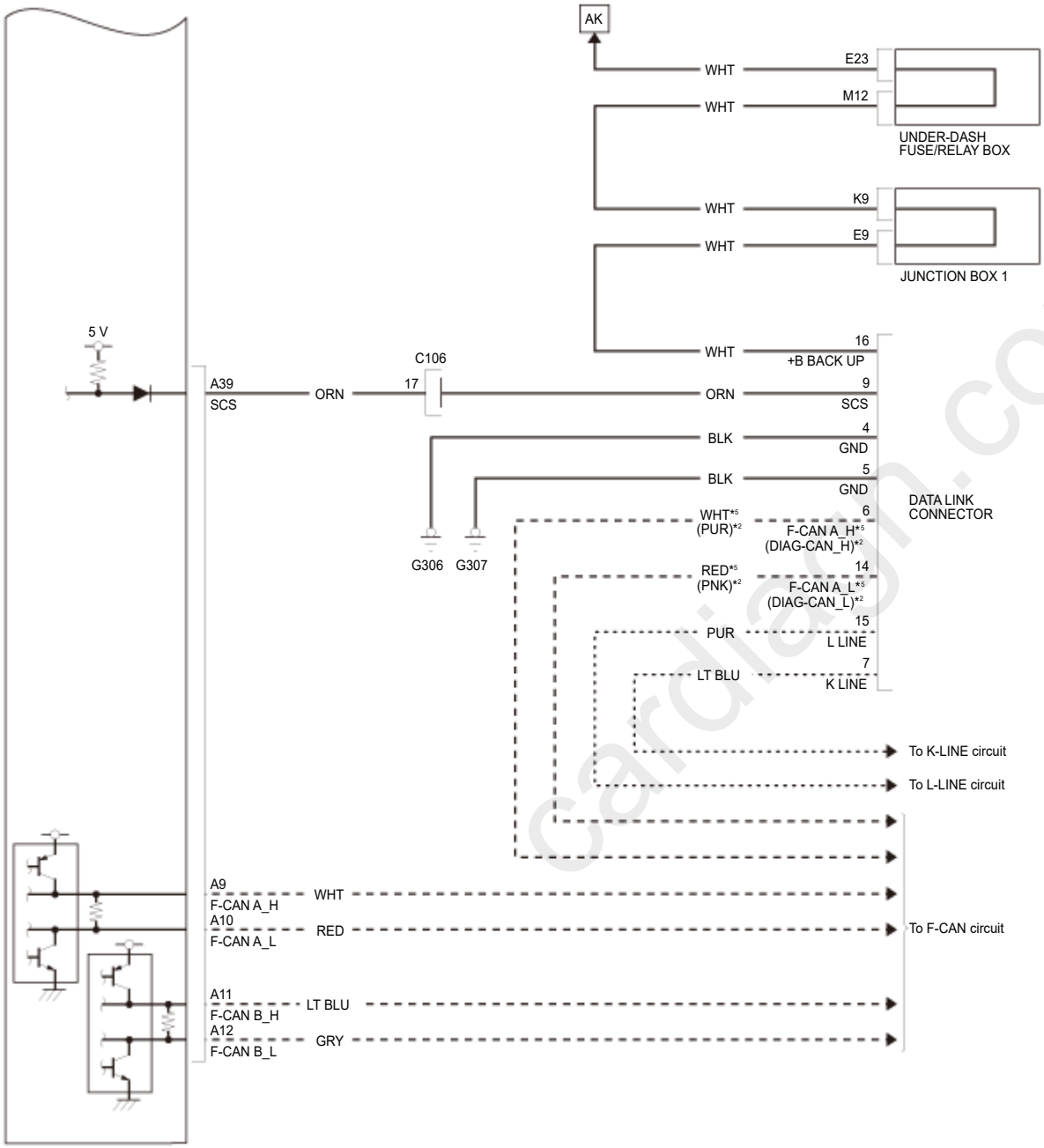
*4: With AcuraLink

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*2: With CAN gateway
*5: Without CAN gateway

cardiagn.com

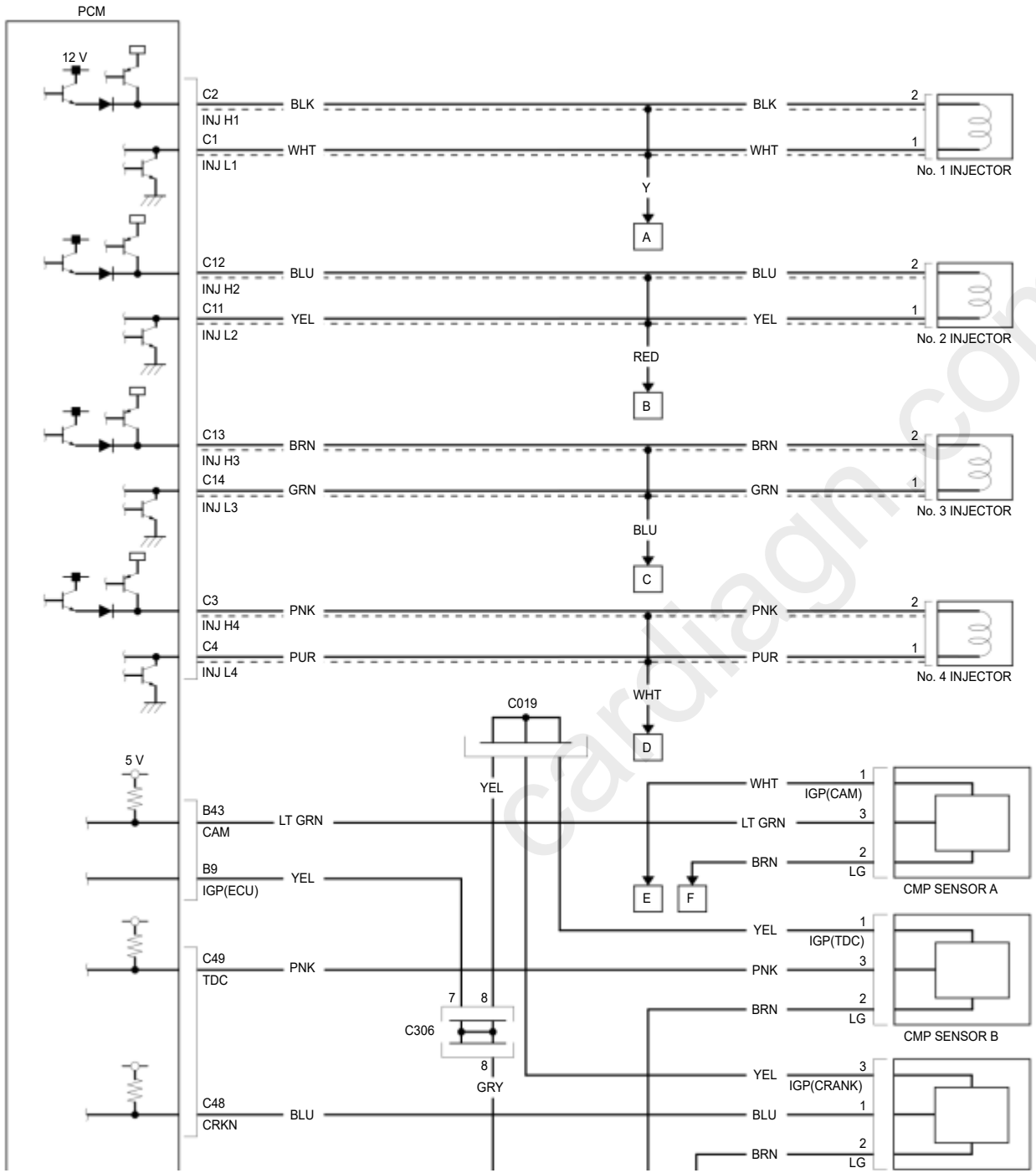


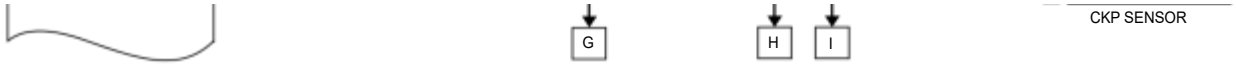
*2: With CAN gateway
*5: Without CAN gateway

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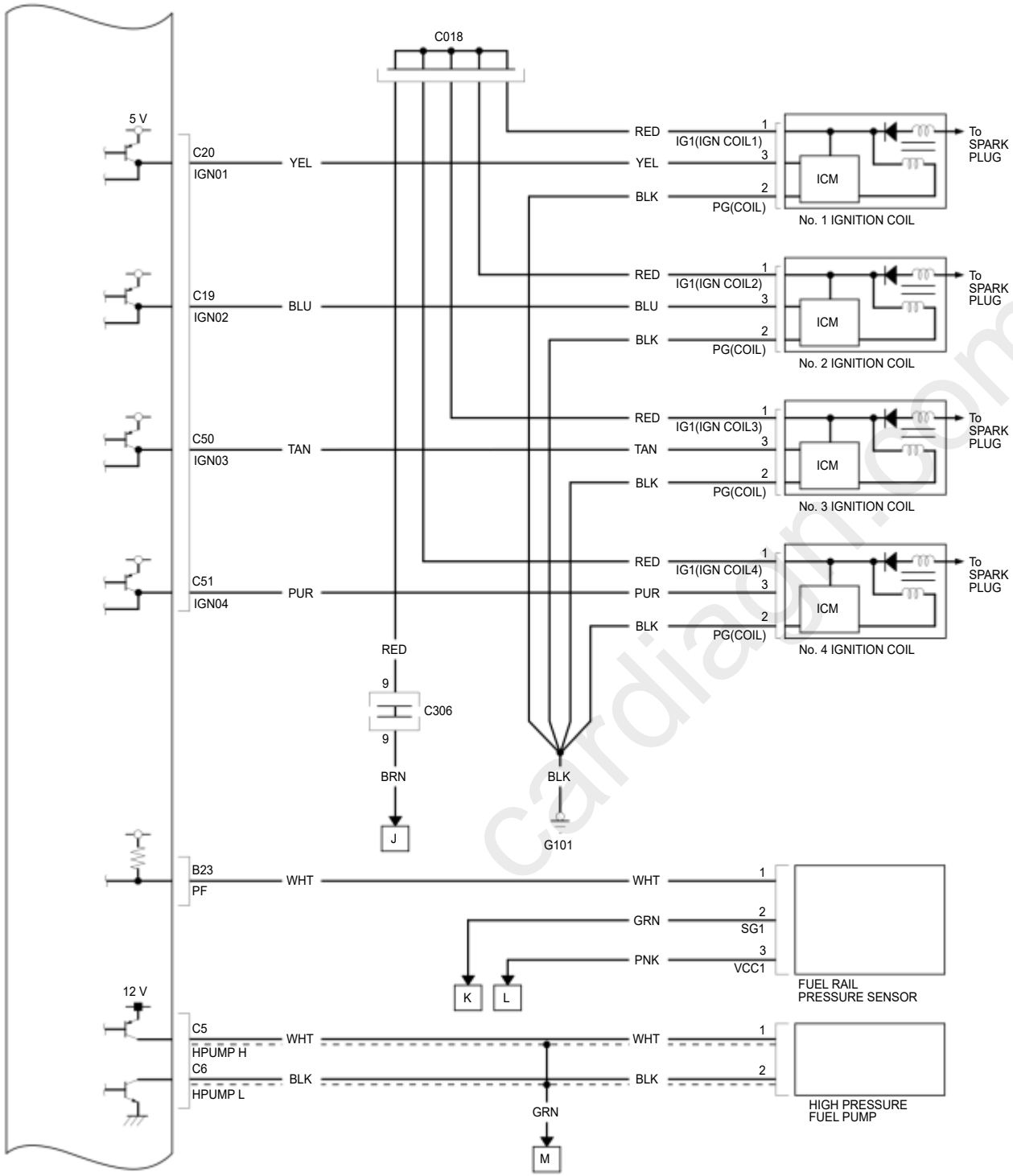
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Fuel and Emissions Systems Circuit Diagram

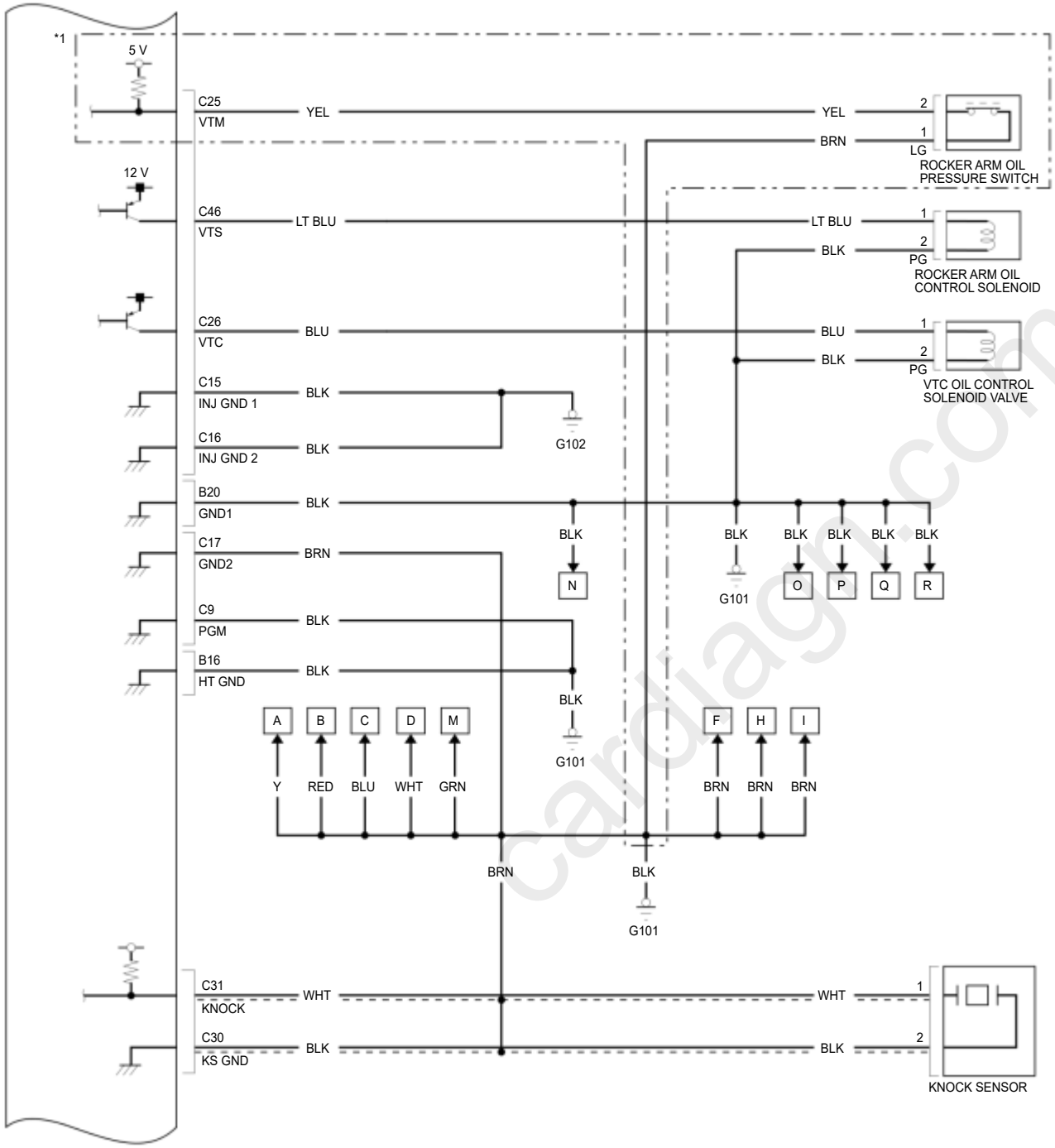




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C018
5 V
C20
IGN01
YEL
C19
IGN02
BLU
C50
IGN03
TAN
C51
IGN04
PUR
RED
YEL
BLK
IG1(IGN COIL1)
PG(COIL)
ICM
No. 1 IGNITION COIL
IG1(IGN COIL2)
No. 2 IGNITION COIL
IG1(IGN COIL3)
No. 3 IGNITION COIL
IG1(IGN COIL4)
No. 4 IGNITION COIL
To SPARK PLUG
C306
BRN
J
G101
12 V
B23
PF
WHT
GRN
PNK
SG1
VCC1
K
L
FUEL RAIL PRESSURE SENSOR
C5
HPUMP H
C6
HPUMP L
HIGH PRESSURE FUEL PUMP
M

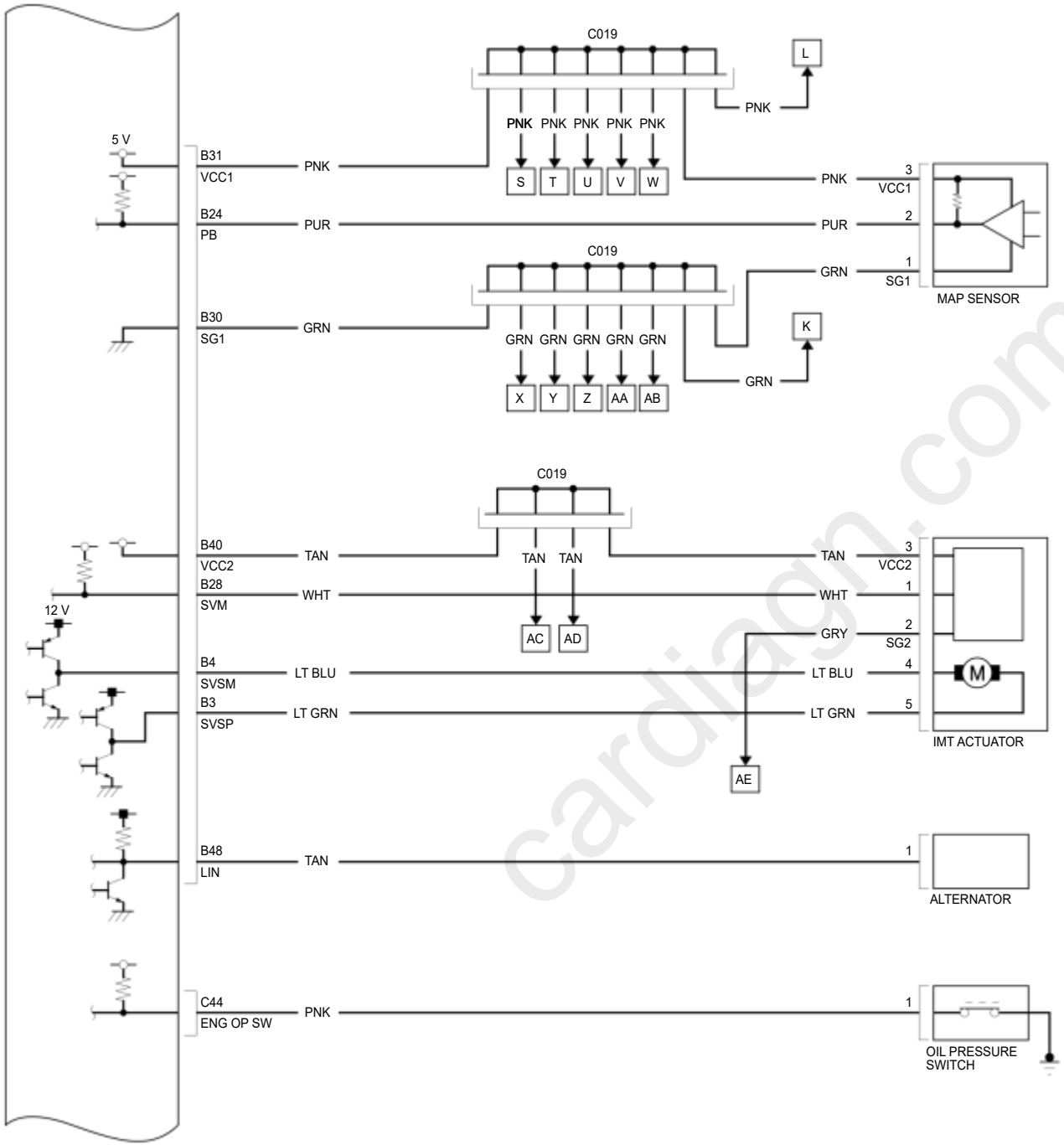
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*1: USA and Canada models

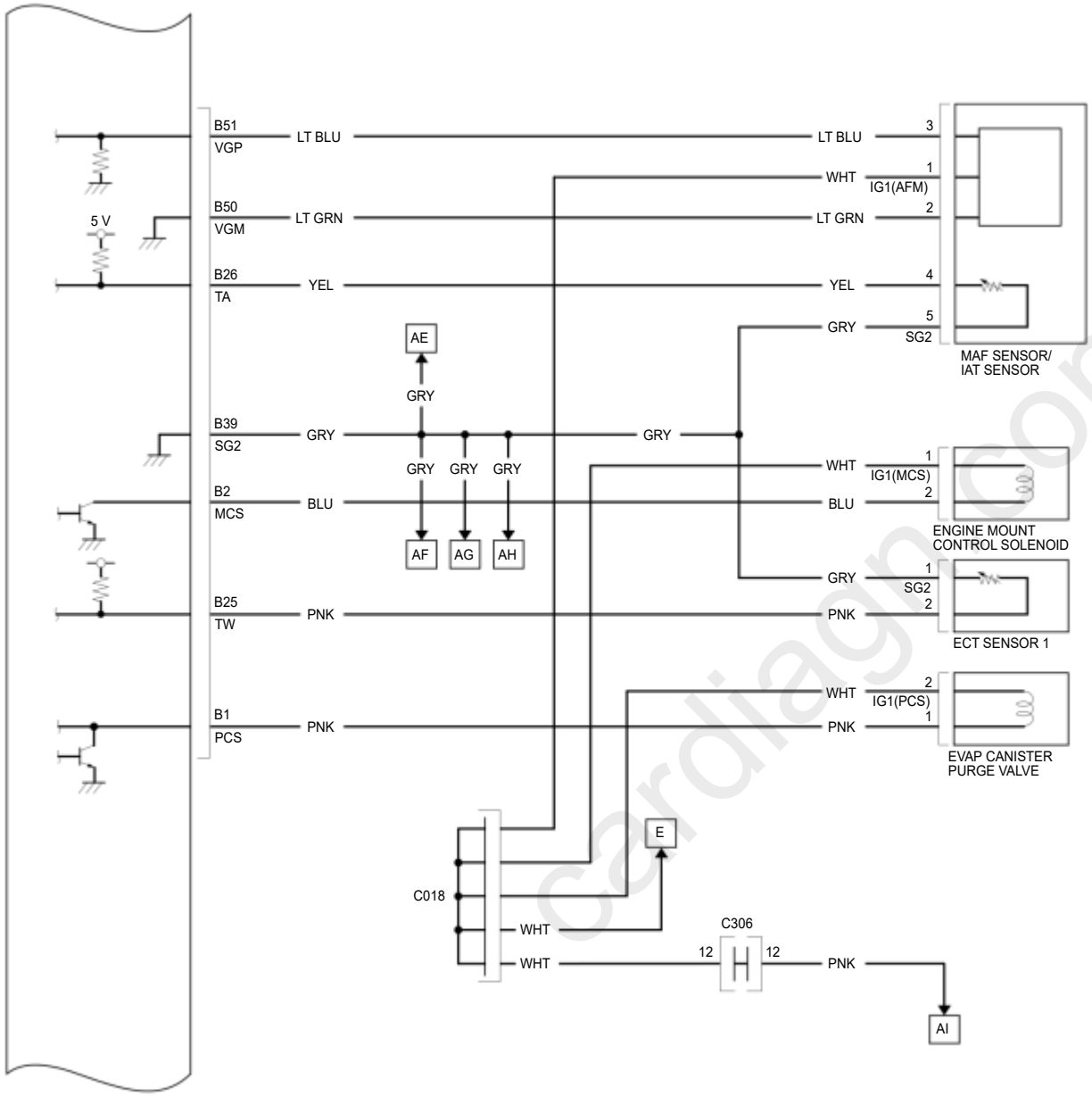
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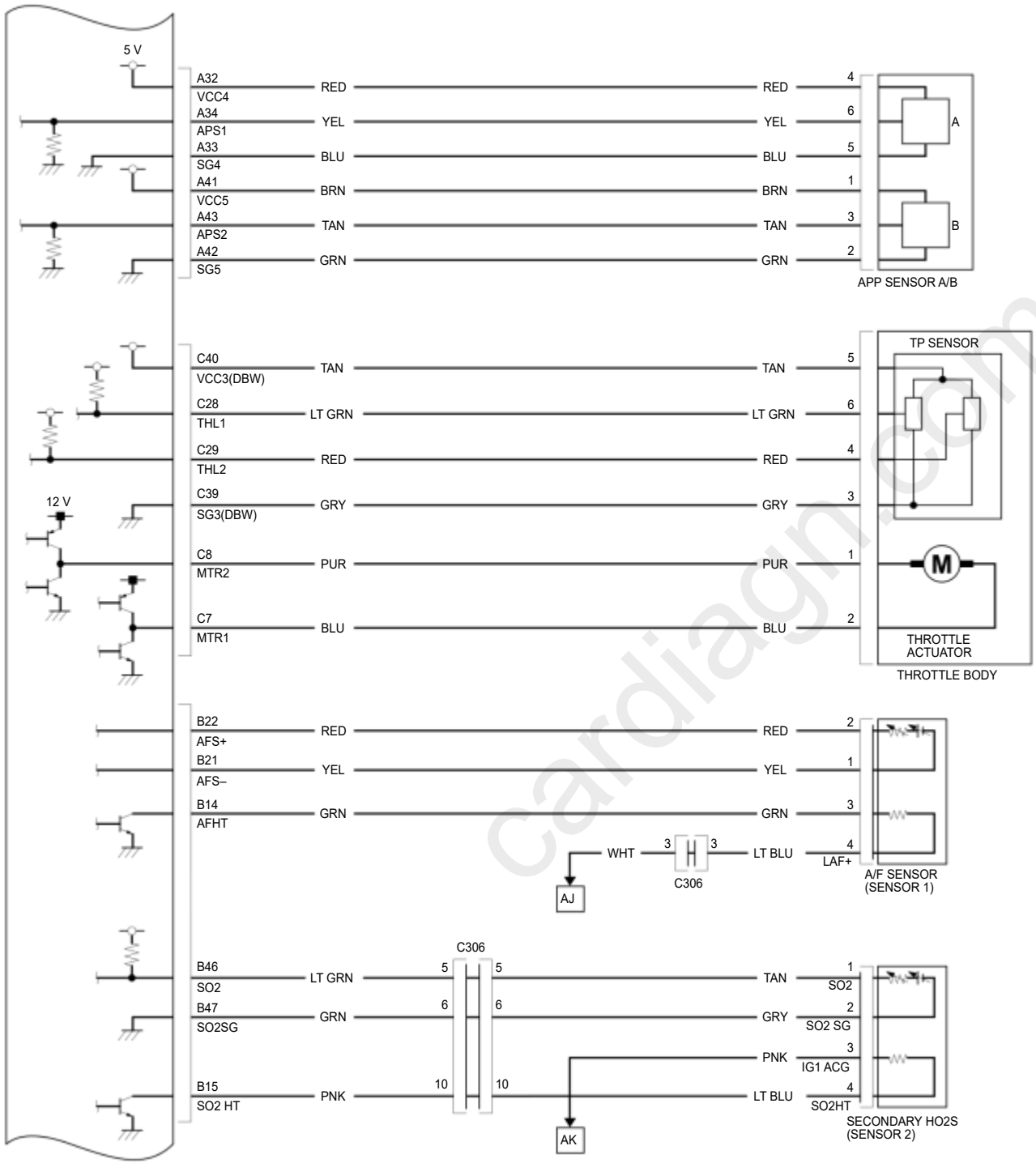


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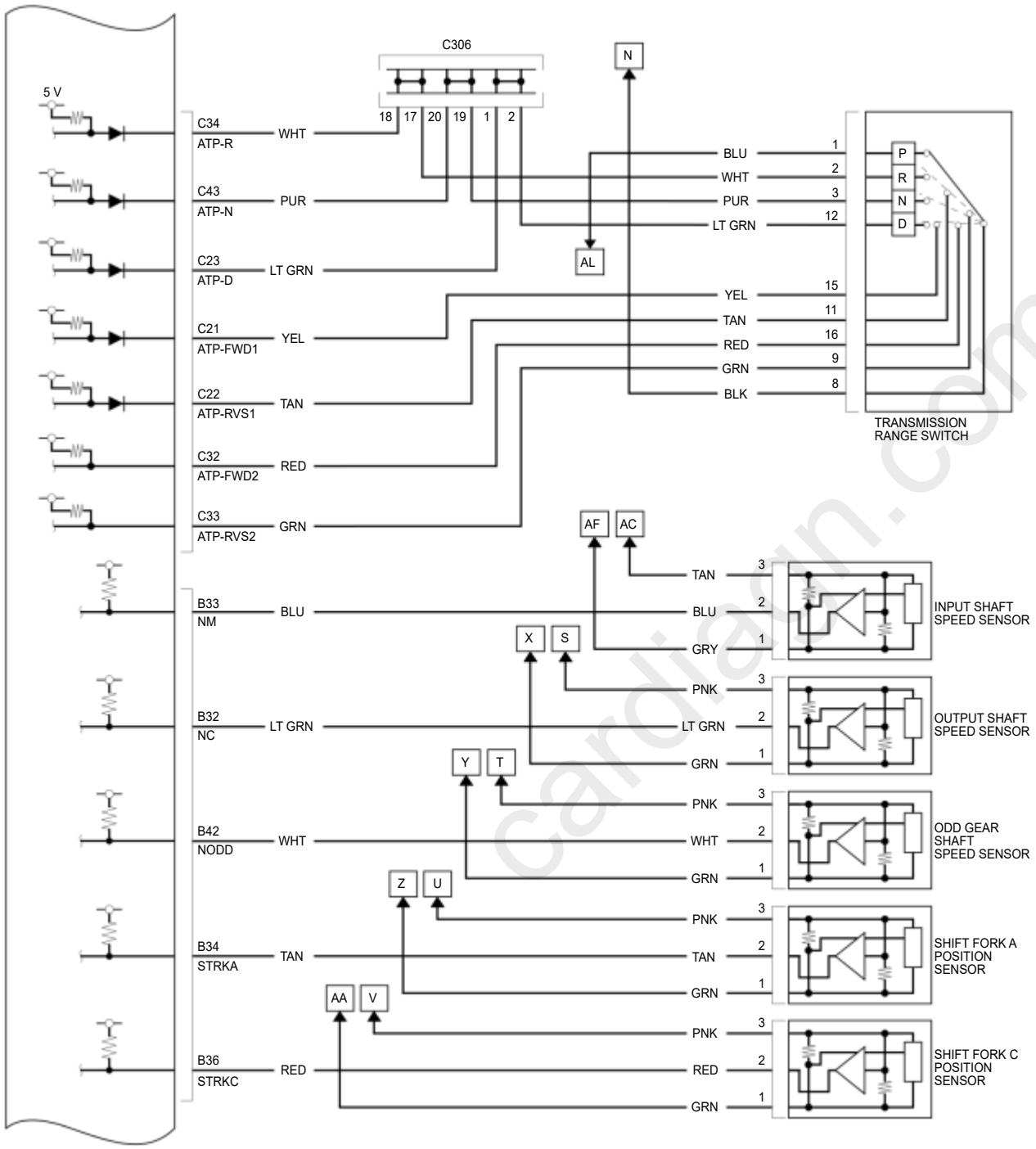

B51
VGP
LT BLU
LT BLU
3
WHT
1
IG1(AFM)
B50
VGM
LT GRN
LT GRN
2
5 V
B26
TA
YEL
YEL
4
GRY
5
SG2
MAF SENSOR/
IAT SENSOR
AE
GRY
B39
SG2
GRY
GRY
GRY
WHT
1
IG1(MCS)
B2
MCS
BLU
BLU
2
ENGINE MOUNT
CONTROL SOLENOID
GRY
GRY
GRY
AF
AG
AH
GRY
1
SG2
B25
TW
PNK
PNK
2
ECT SENSOR 1
WHT
2
IG1(PCS)
B1
PCS
PNK
PNK
1
EVAP CANISTER
PURGE VALVE
E
C018
WHT
C306
WHT
12
12
PNK
AI

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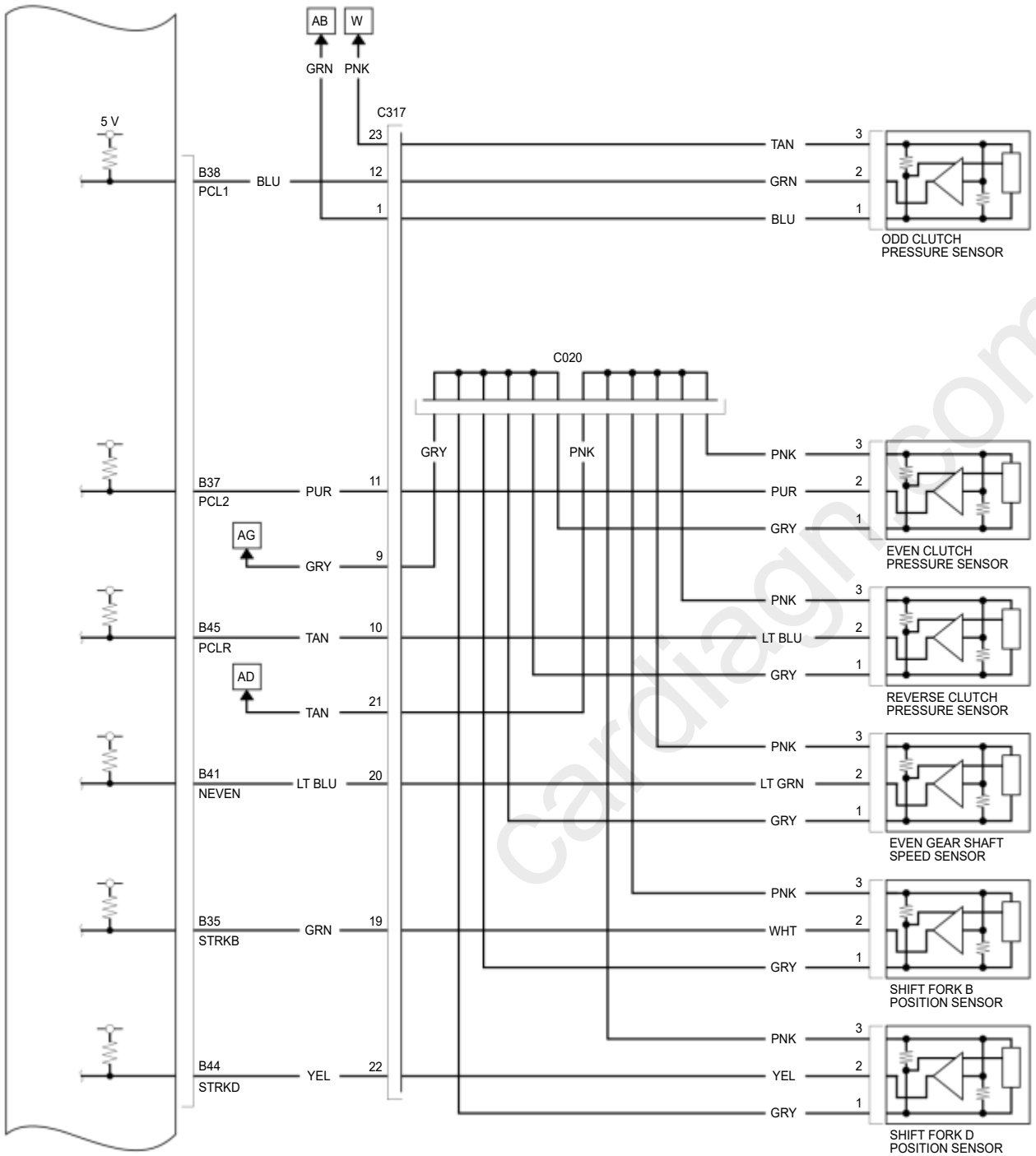


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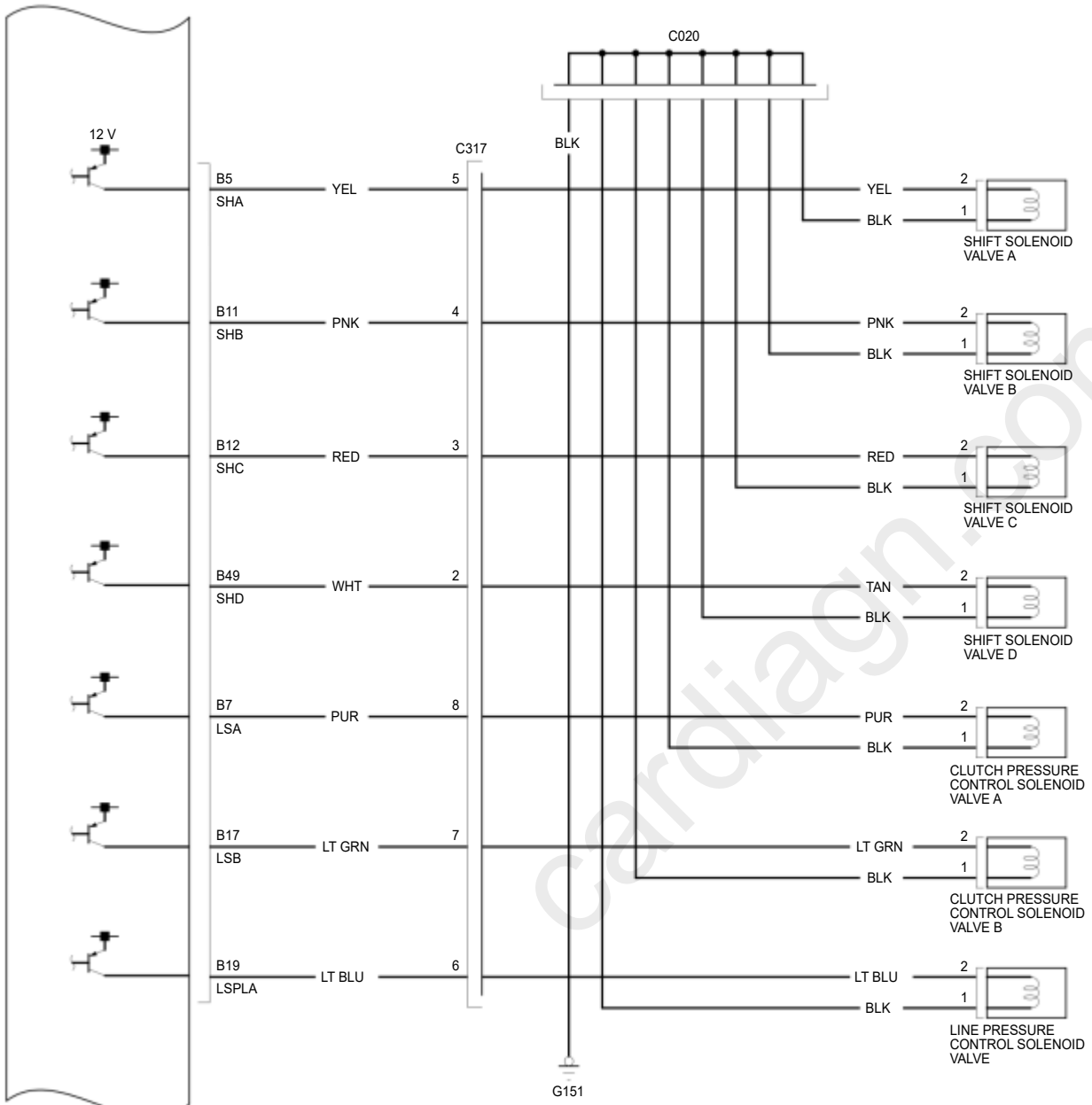
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C306
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17
20
19
1
2
5 V
C34
ATP-R
WHT
C43
ATP-N
PUR
C23
ATP-D
LT GRN
C21
ATP-FWD1
YEL
C22
ATP-RVS1
TAN
C32
ATP-FWD2
RED
C33
ATP-RVS2
GRN
N
AL
BLU
WHT
PUR
LT GRN
YEL
TAN
RED
GRN
BLK
1
2
3
12
15
11
16
9
8
P
R
N
D
TRANSMISSION
RANGE SWITCH
AF
AC
B33
NM
BLU
TAN
BLU
GRY
3
2
1
INPUT SHAFT
SPEED SENSOR
X
S
B32
NC
LT GRN
PNK
LT GRN
GRN
OUTPUT SHAFT
SPEED SENSOR
Y
T
B42
NODD
WHT
PNK
WHT
GRN
ODD GEAR
SHAFT
SPEED SENSOR
Z
U
B34
STRKA
TAN
PNK
TAN
GRN
SHIFT FORK A
POSITION
SENSOR
AA
V
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PNK
RED
GRN
SHIFT FORK C
POSITION
SENSOR

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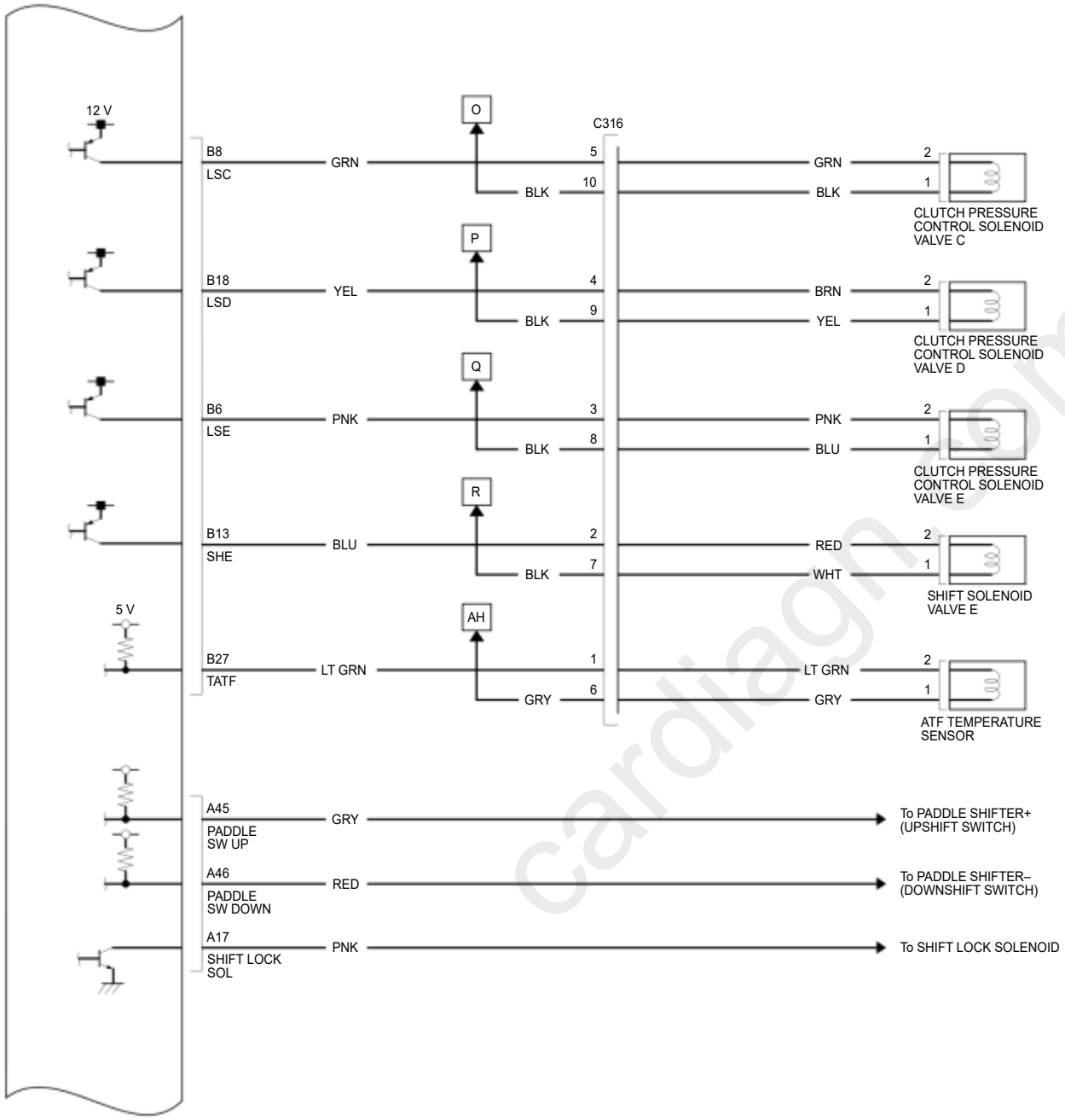

AB
W
GRN
PNK
C317
5 V
B38
PCL1
BLU
23
12
1
TAN
GRN
BLU
3
2
1
ODD CLUTCH
PRESSURE SENSOR
C020
GRY
PNK
B37
PCL2
PUR
11
AG
GRY
9
PNK
PUR
GRY
EVEN CLUTCH
PRESSURE SENSOR
B45
PCLR
TAN
10
AD
TAN
21
PNK
LT BLU
GRY
REVERSE CLUTCH
PRESSURE SENSOR
B41
NEVEN
LT BLU
20
PNK
LT GRN
GRY
EVEN GEAR SHAFT
SPEED SENSOR
B35
STRKB
GRN
19
PNK
WHT
GRY
SHIFT FORK B
POSITION SENSOR
B44
STRKD
YEL
22
PNK
YEL
GRY
SHIFT FORK D
POSITION SENSOR

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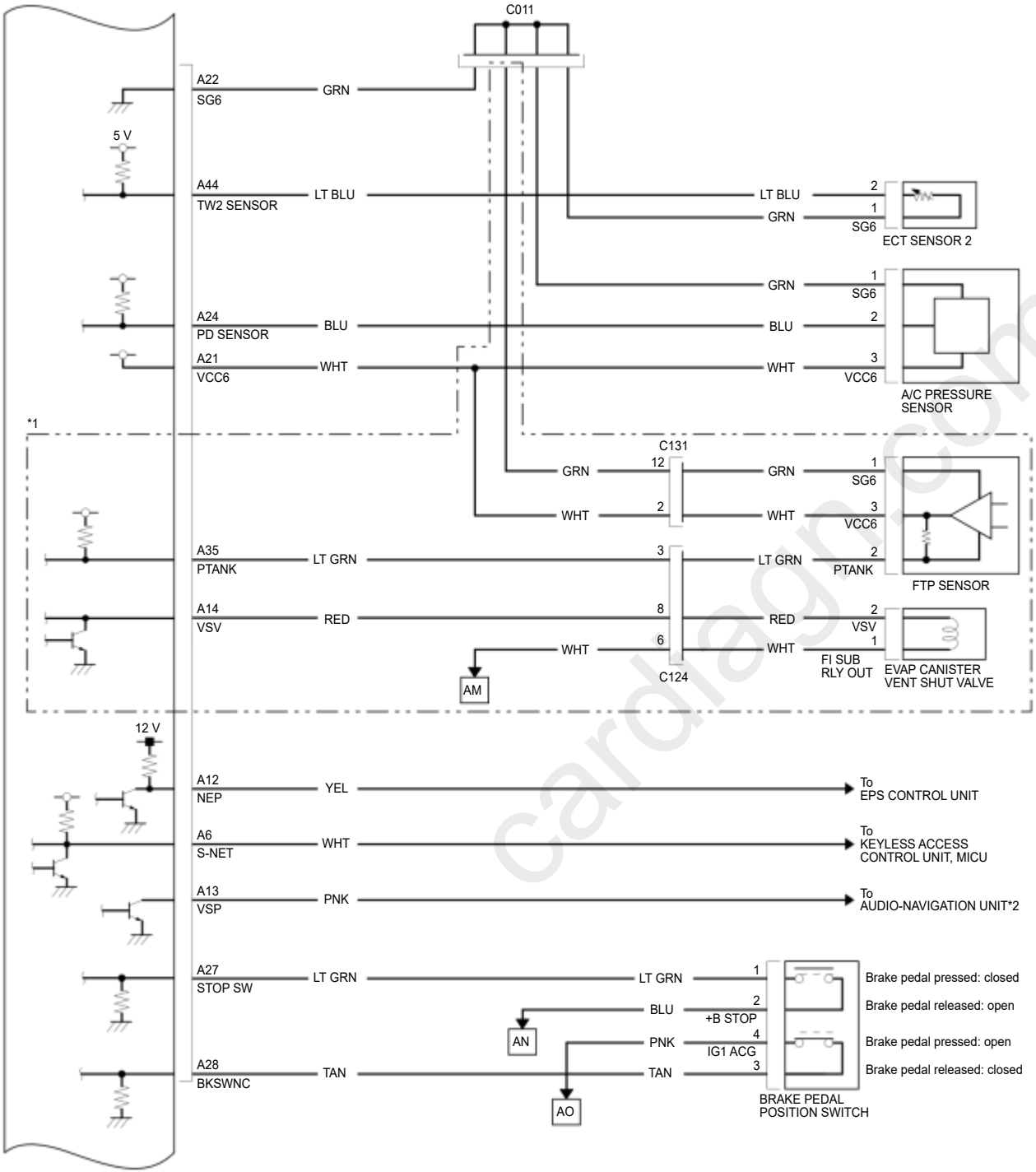
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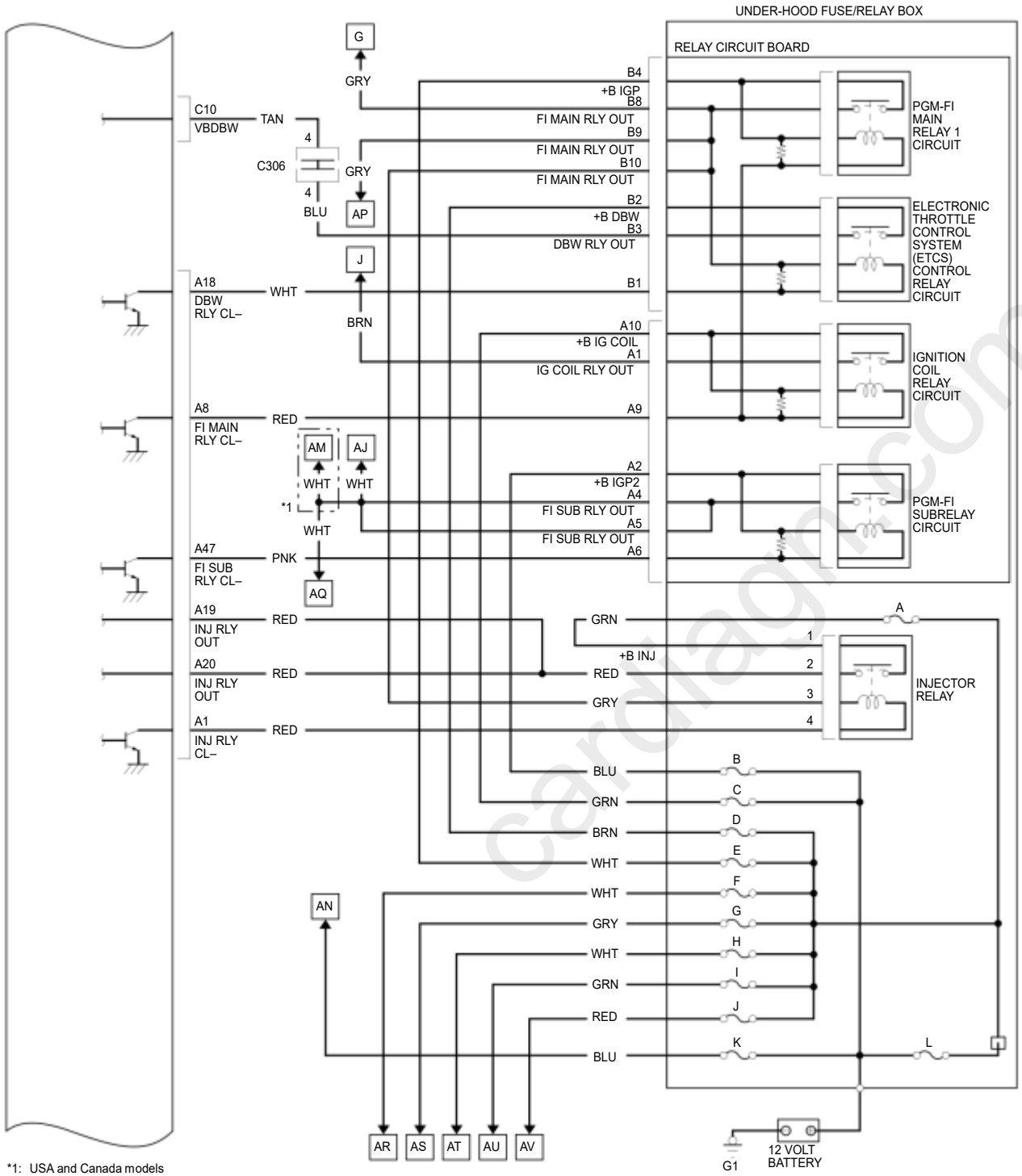


*1: USA and Canada models

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*2: With navigation

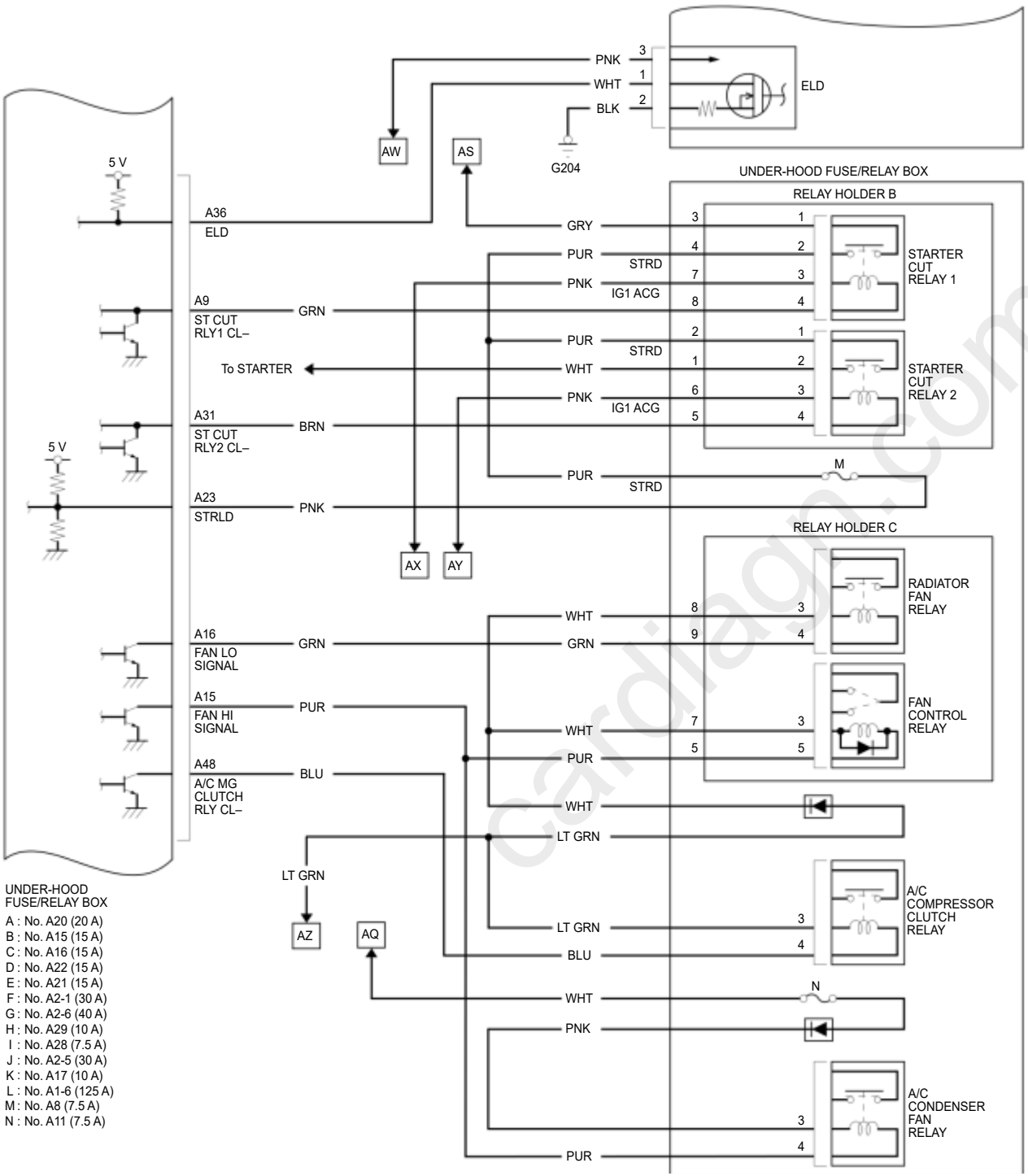
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*1: USA and Canada models

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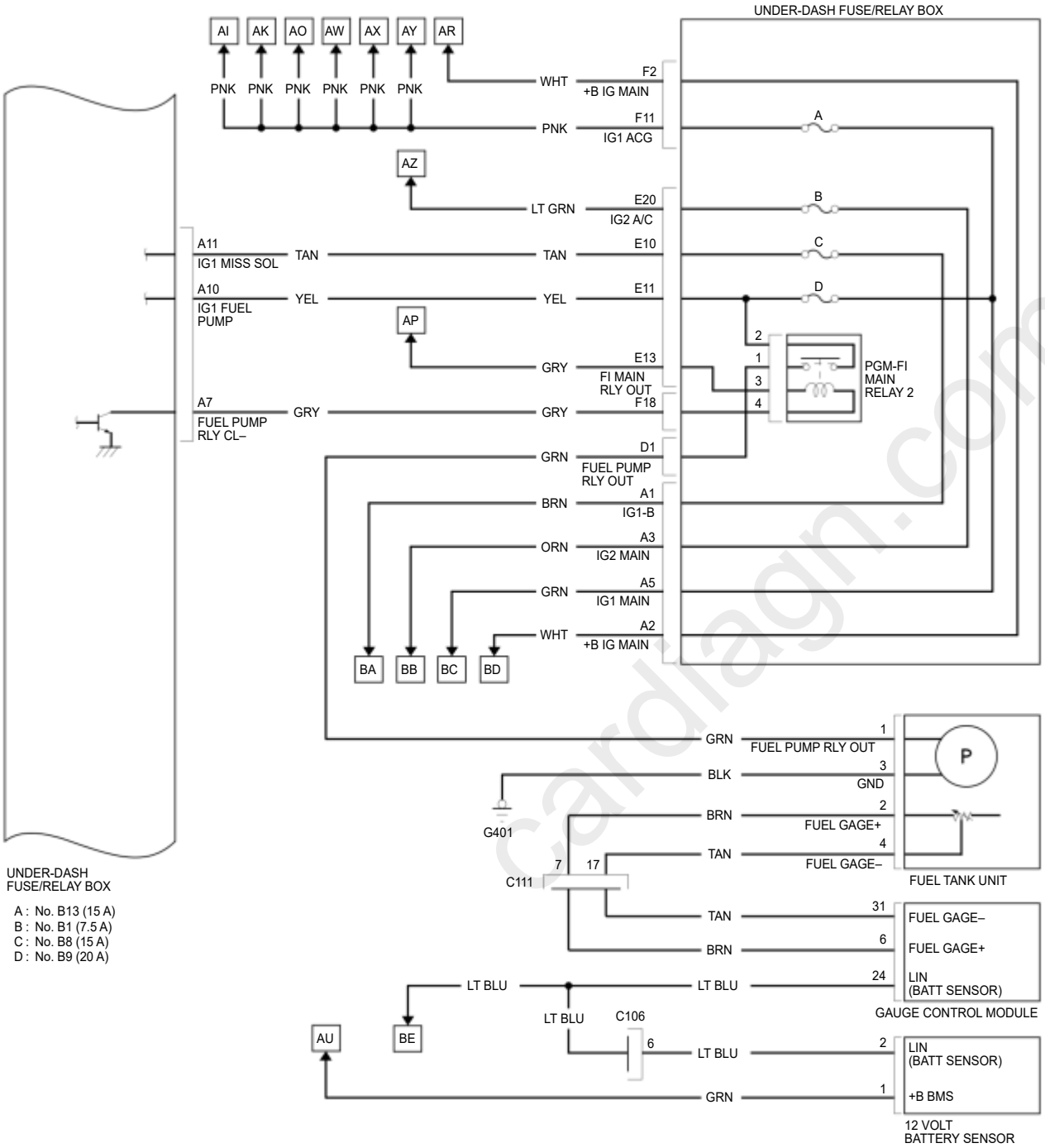


UNDER-HOOD FUSE/RELAY BOX

A : No. A20 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A2-5 (30 A)
K : No. A17 (10 A)
L : No. A1-6 (125 A)
M : No. A8 (7.5 A)
N : No. A11 (7.5 A)

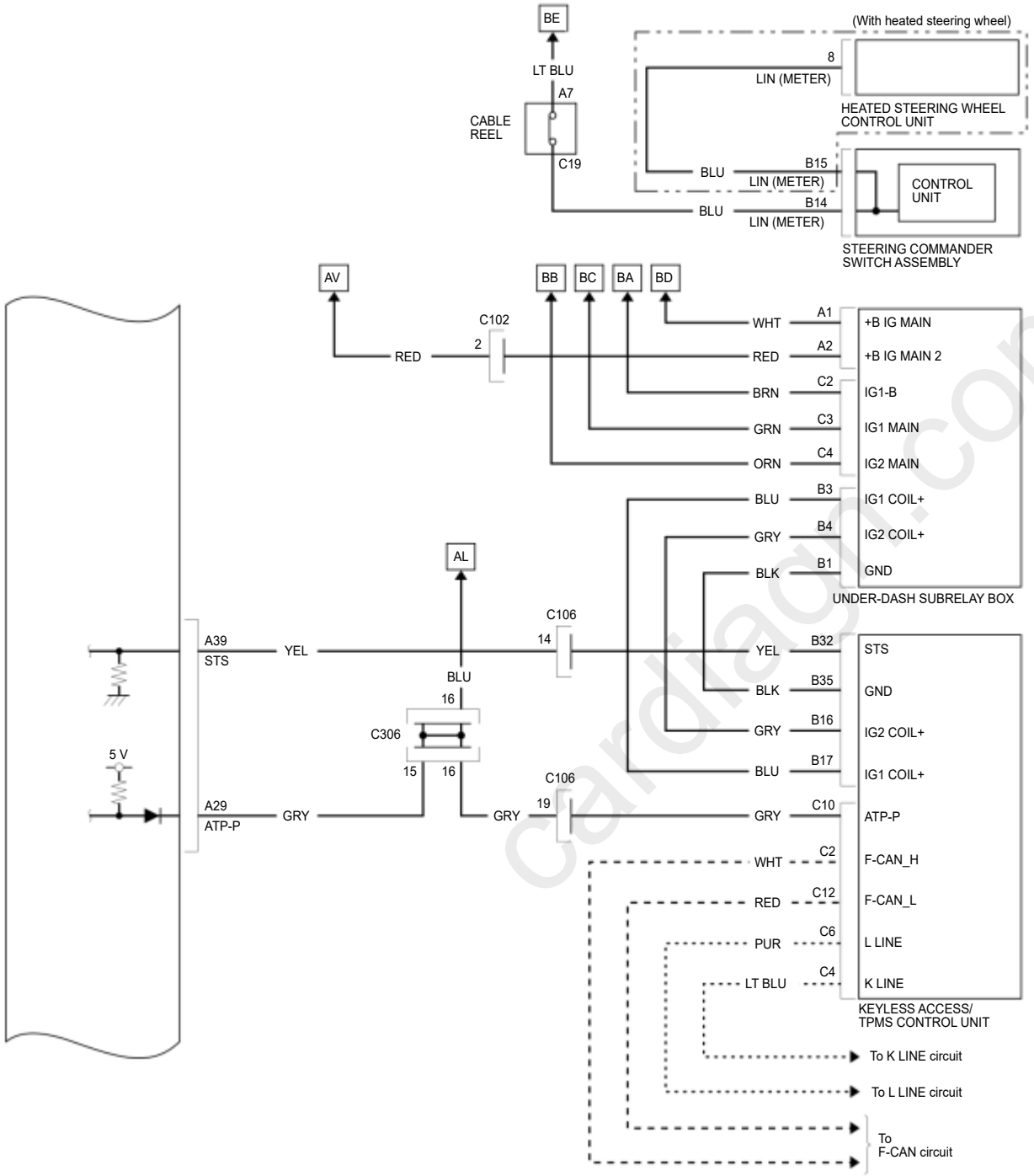
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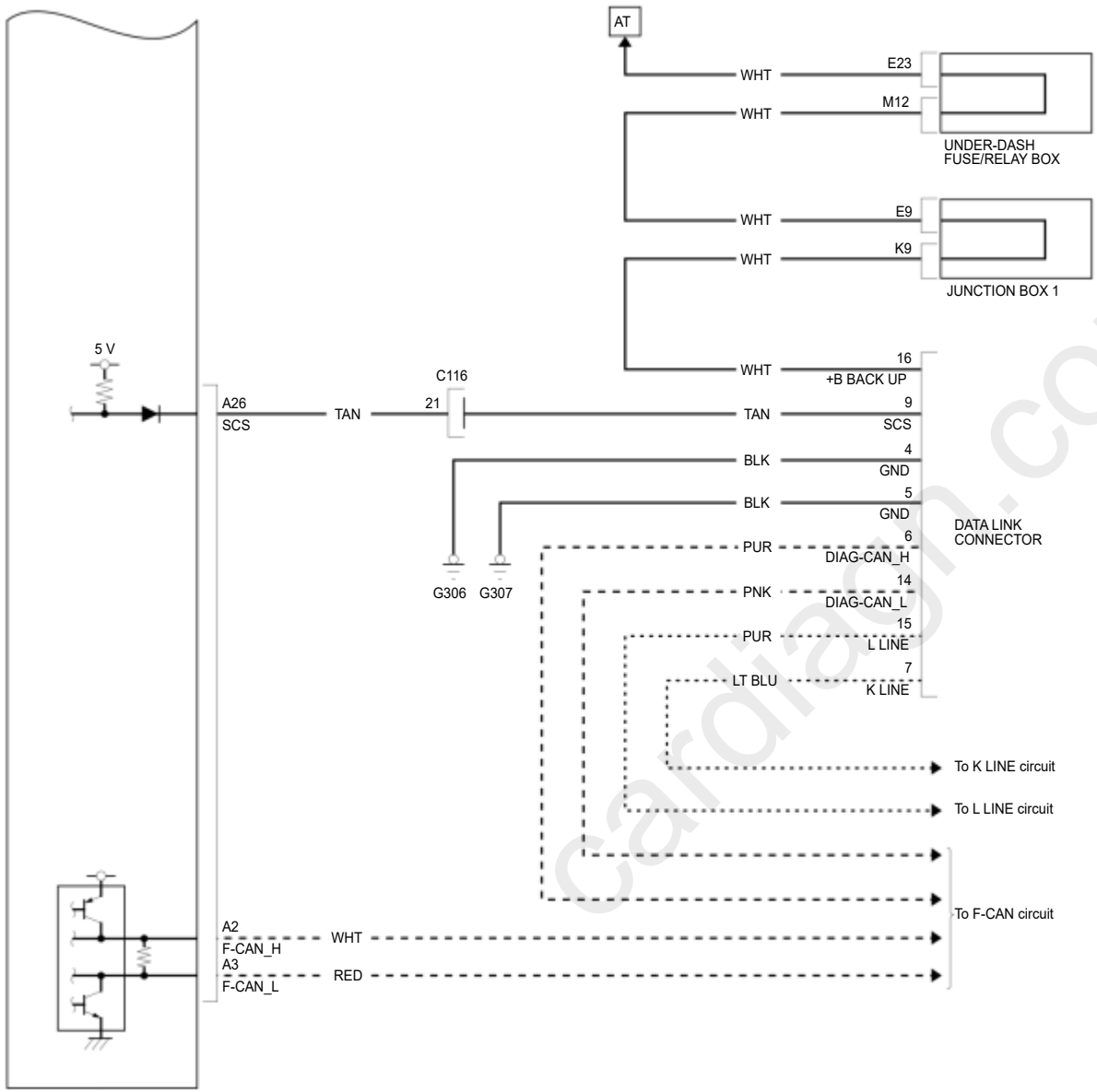


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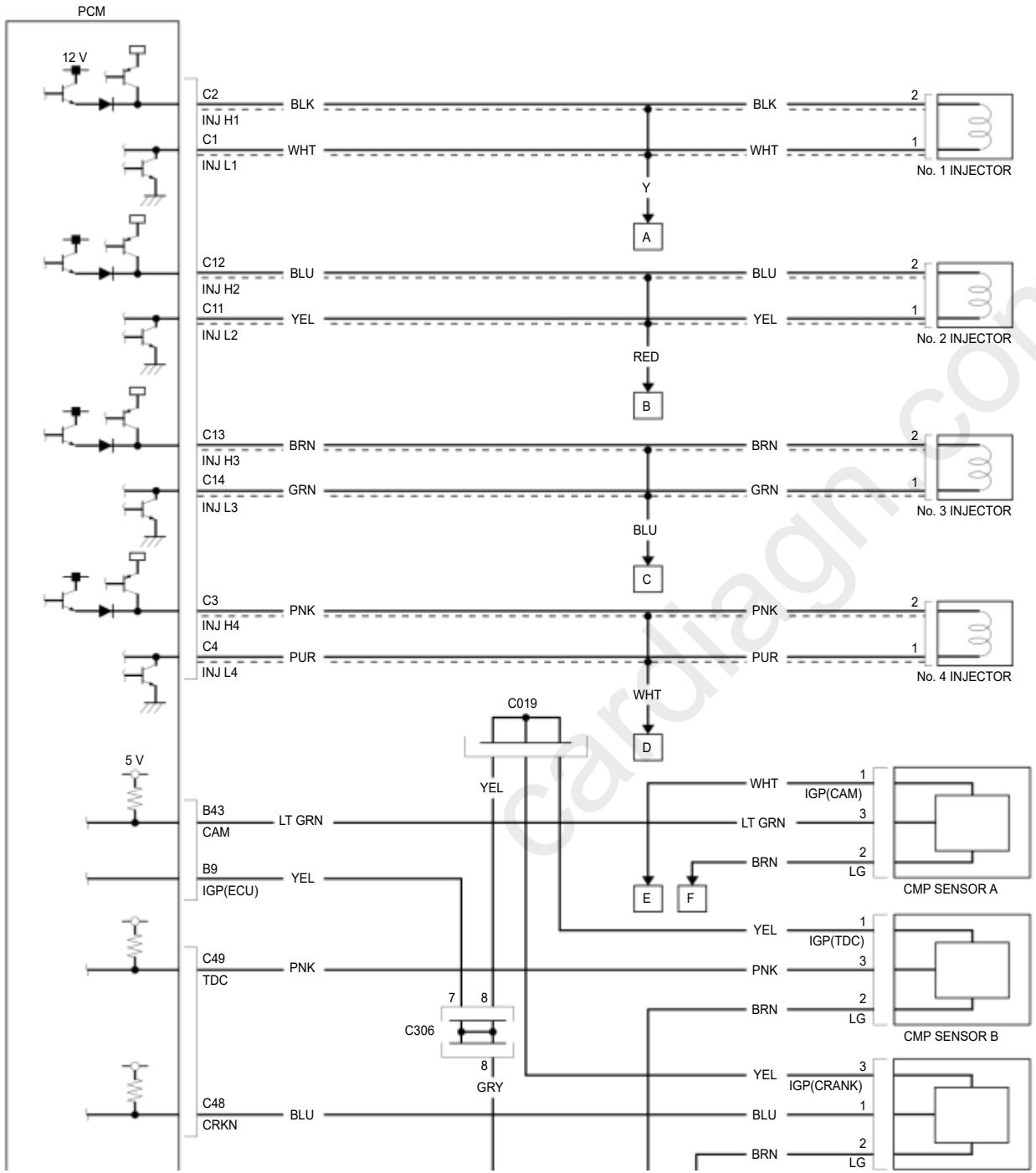


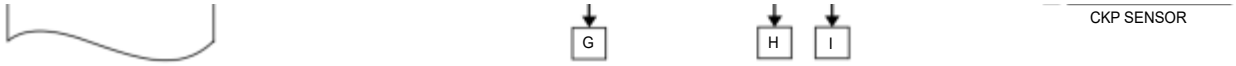
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AT
WHT
E23
WHT
M12
UNDER-DASH
FUSE/RELAY BOX
WHT
E9
WHT
K9
JUNCTION BOX 1
5 V
C116
WHT
16
+B BACK UP
A26
SCS
TAN
21
TAN
9
SCS
BLK
4
GND
BLK
5
GND
DATA LINK
CONNECTOR
PUR
6
DIAG-CAN_H
G306
G307
PNK
14
DIAG-CAN_L
PUR
15
L LINE
LT BLU
7
K LINE
To K LINE circuit
To L LINE circuit
To F-CAN circuit
A2
F-CAN_H
WHT
A3
F-CAN_L
RED

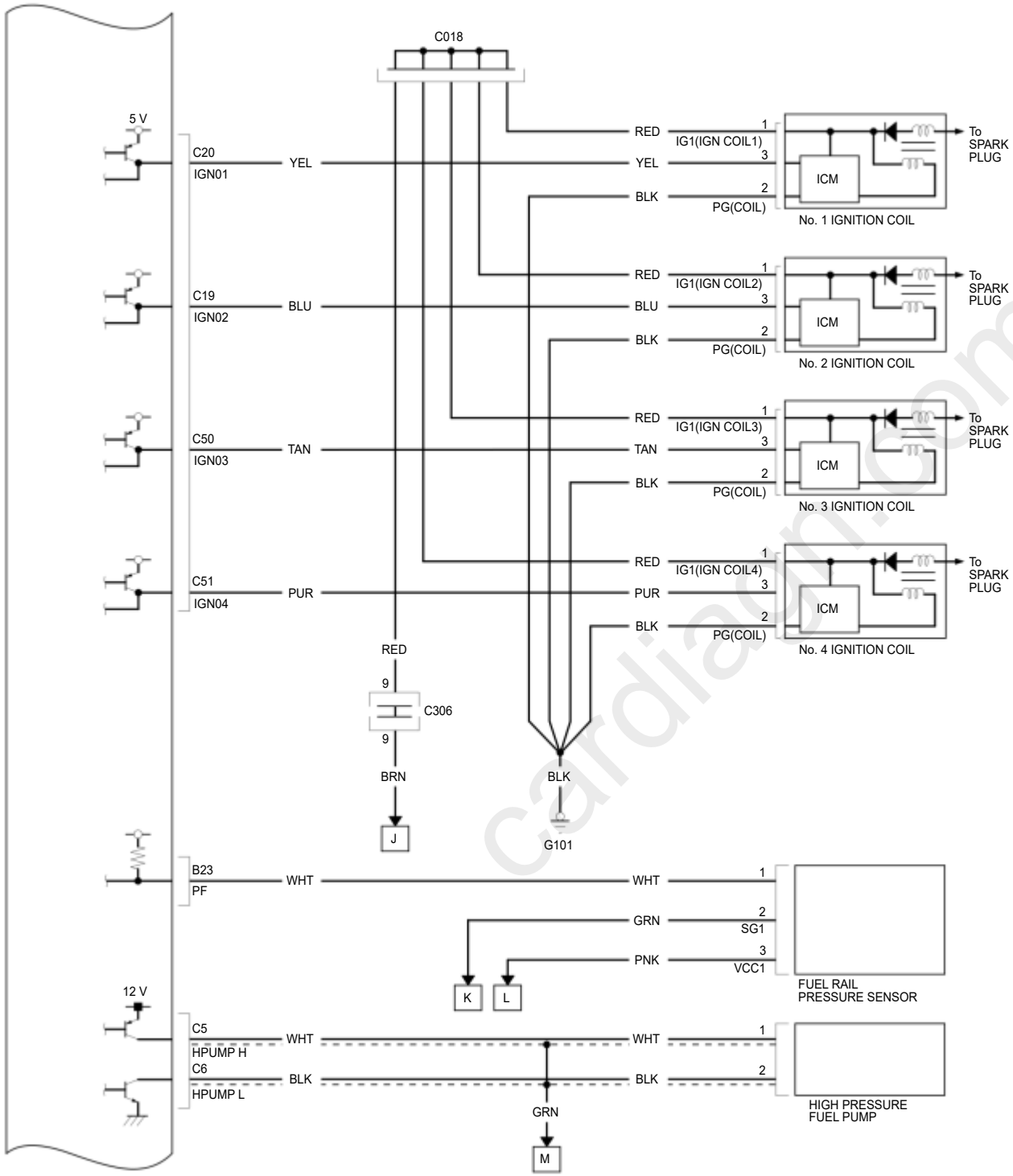
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Fuel and Emissions Systems Circuit Diagram

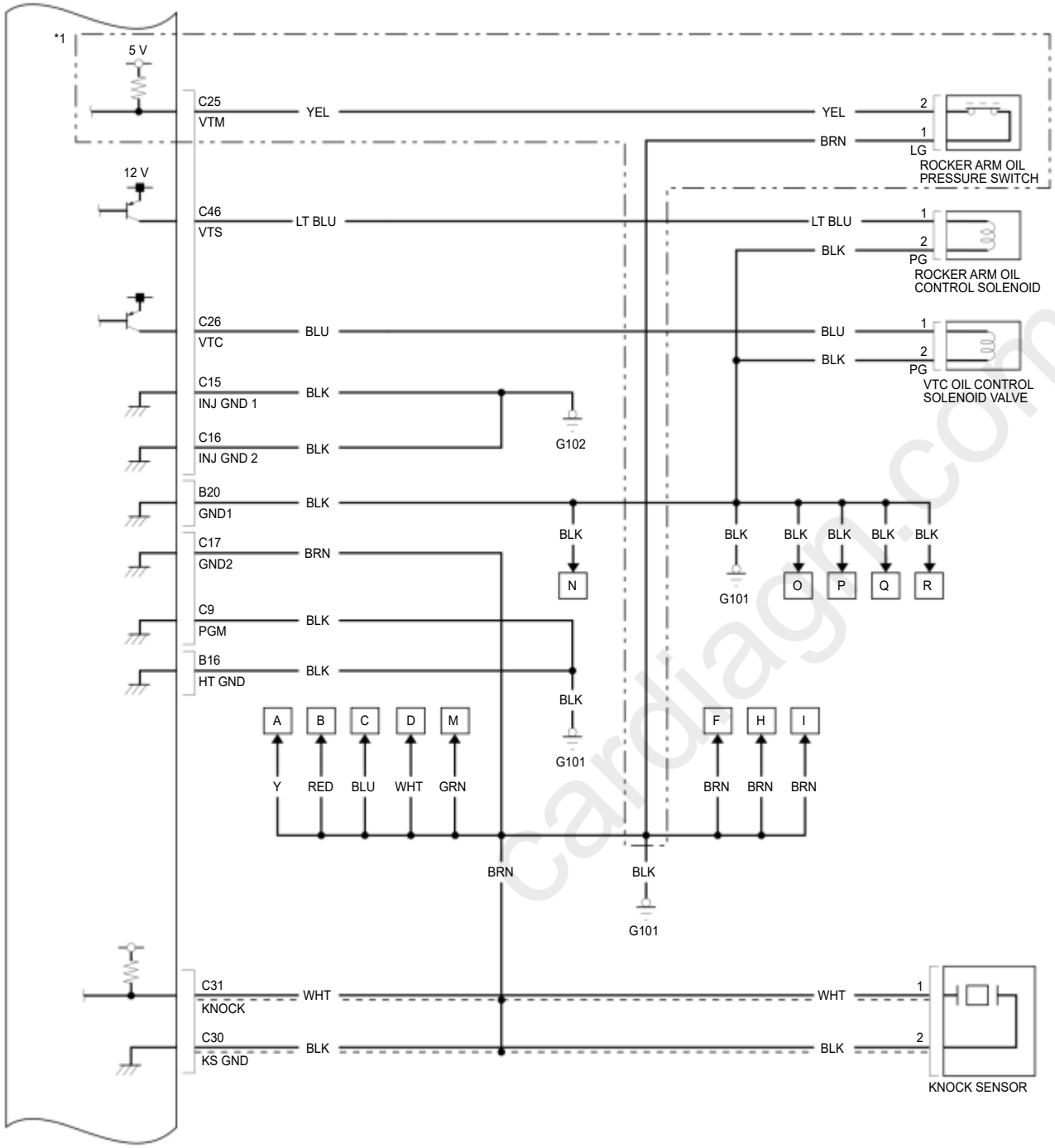




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C018
5 V
C20
IGN01
YEL
C19
IGN02
BLU
C50
IGN03
TAN
C51
IGN04
PUR
RED
YEL
BLK
IG1(IGN COIL1)
PG(COIL)
ICM
No. 1 IGNITION COIL
IG1(IGN COIL2)
No. 2 IGNITION COIL
IG1(IGN COIL3)
No. 3 IGNITION COIL
IG1(IGN COIL4)
No. 4 IGNITION COIL
To SPARK PLUG
C306
BRN
J
G101
12 V
B23
PF
WHT
GRN
PNK
SG1
VCC1
K
L
FUEL RAIL PRESSURE SENSOR
C5
HPUMP H
C6
HPUMP L
HIGH PRESSURE FUEL PUMP
M

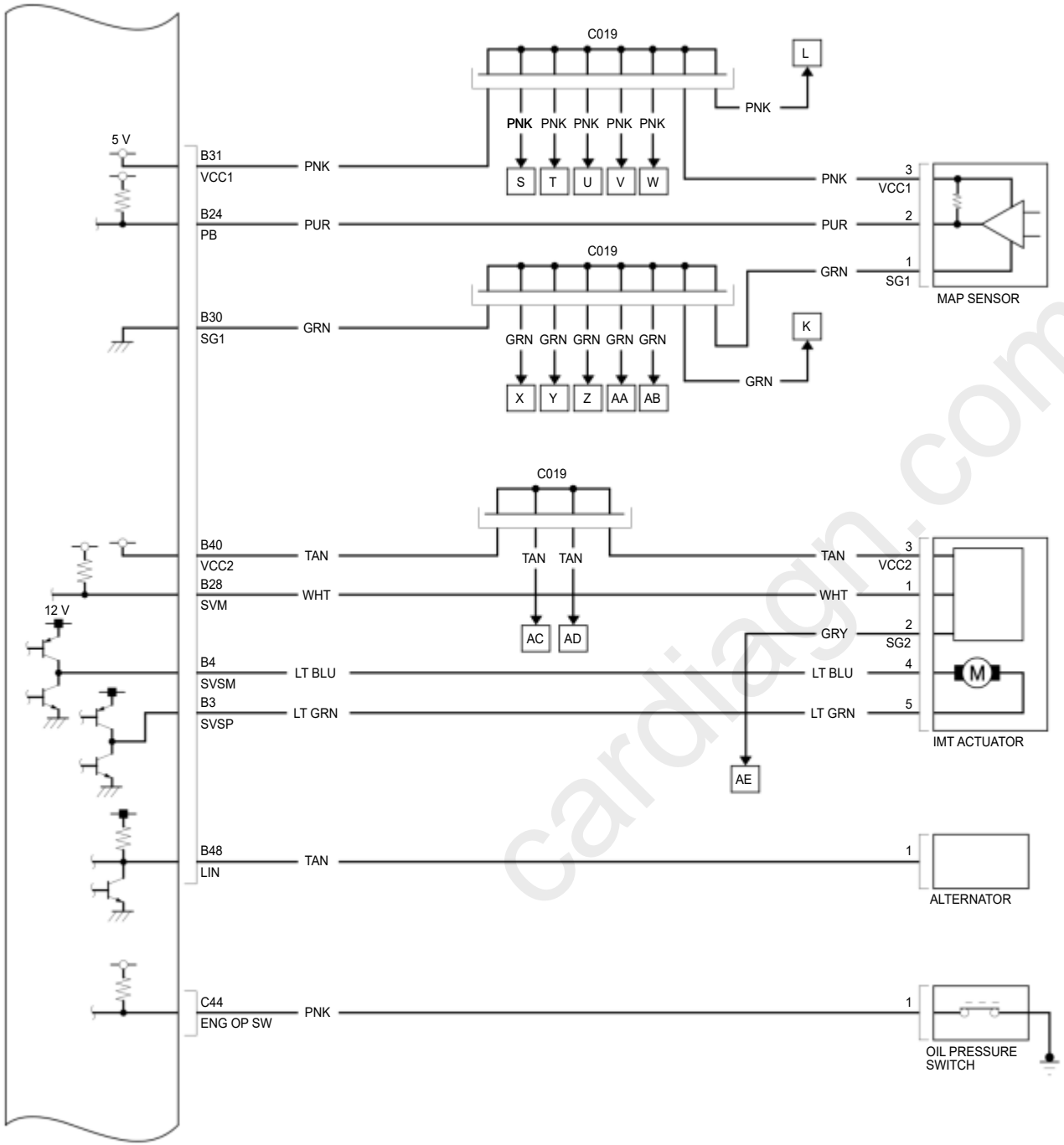
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*1: USA and Canada models

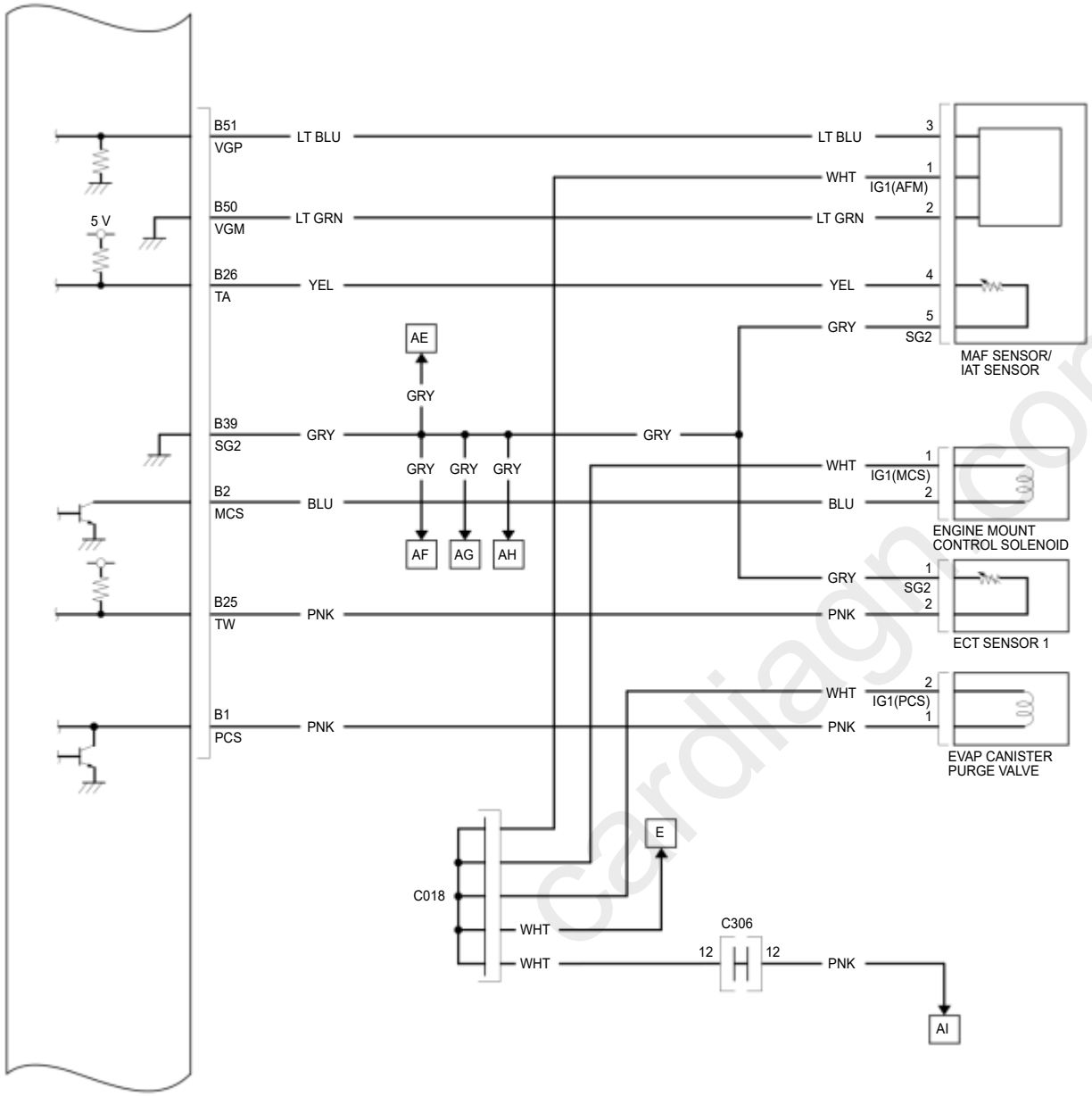
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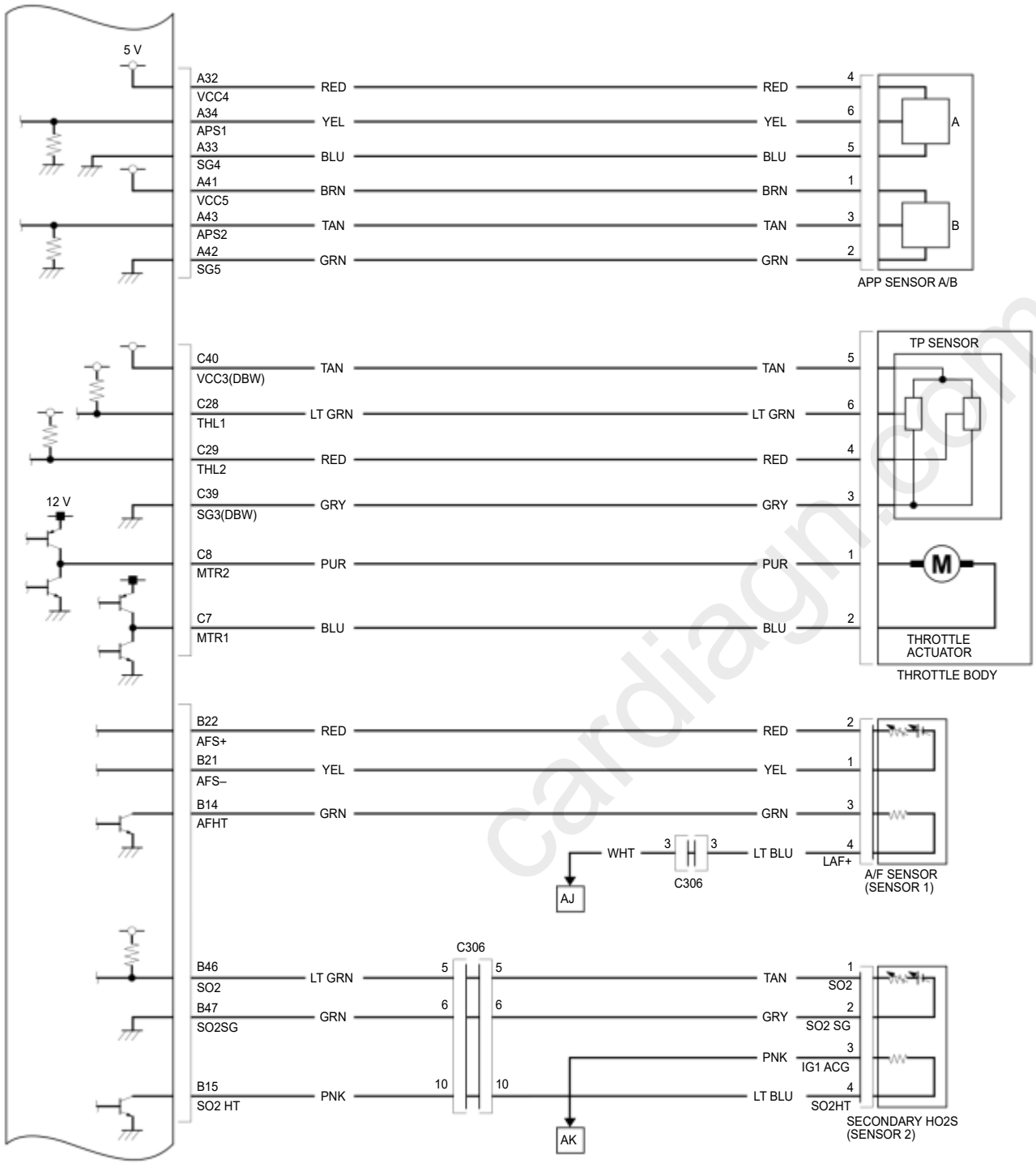


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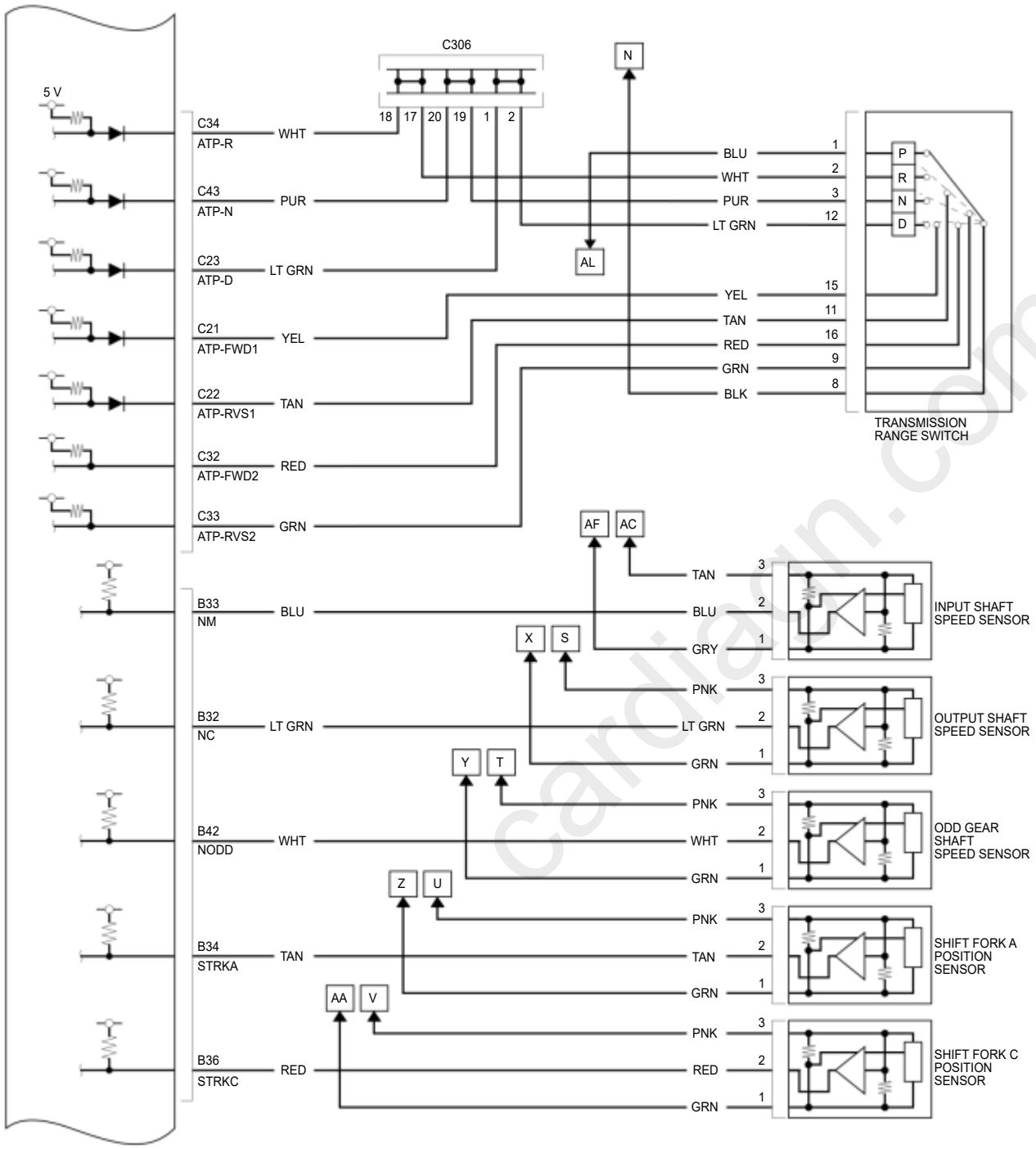

B51
VGP
LT BLU
LT BLU
3
WHT
1
IG1(AFM)
B50
VGM
LT GRN
LT GRN
2
5 V
B26
TA
YEL
YEL
4
GRY
5
SG2
MAF SENSOR/
IAT SENSOR
AE
GRY
B39
SG2
GRY
GRY
GRY
WHT
1
IG1(MCS)
B2
MCS
BLU
BLU
2
ENGINE MOUNT
CONTROL SOLENOID
GRY
GRY
GRY
AF
AG
AH
GRY
1
SG2
B25
TW
PNK
PNK
2
ECT SENSOR 1
WHT
2
IG1(PCS)
B1
PCS
PNK
PNK
1
EVAP CANISTER
PURGE VALVE
E
C018
WHT
C306
WHT
12
12
PNK
AI

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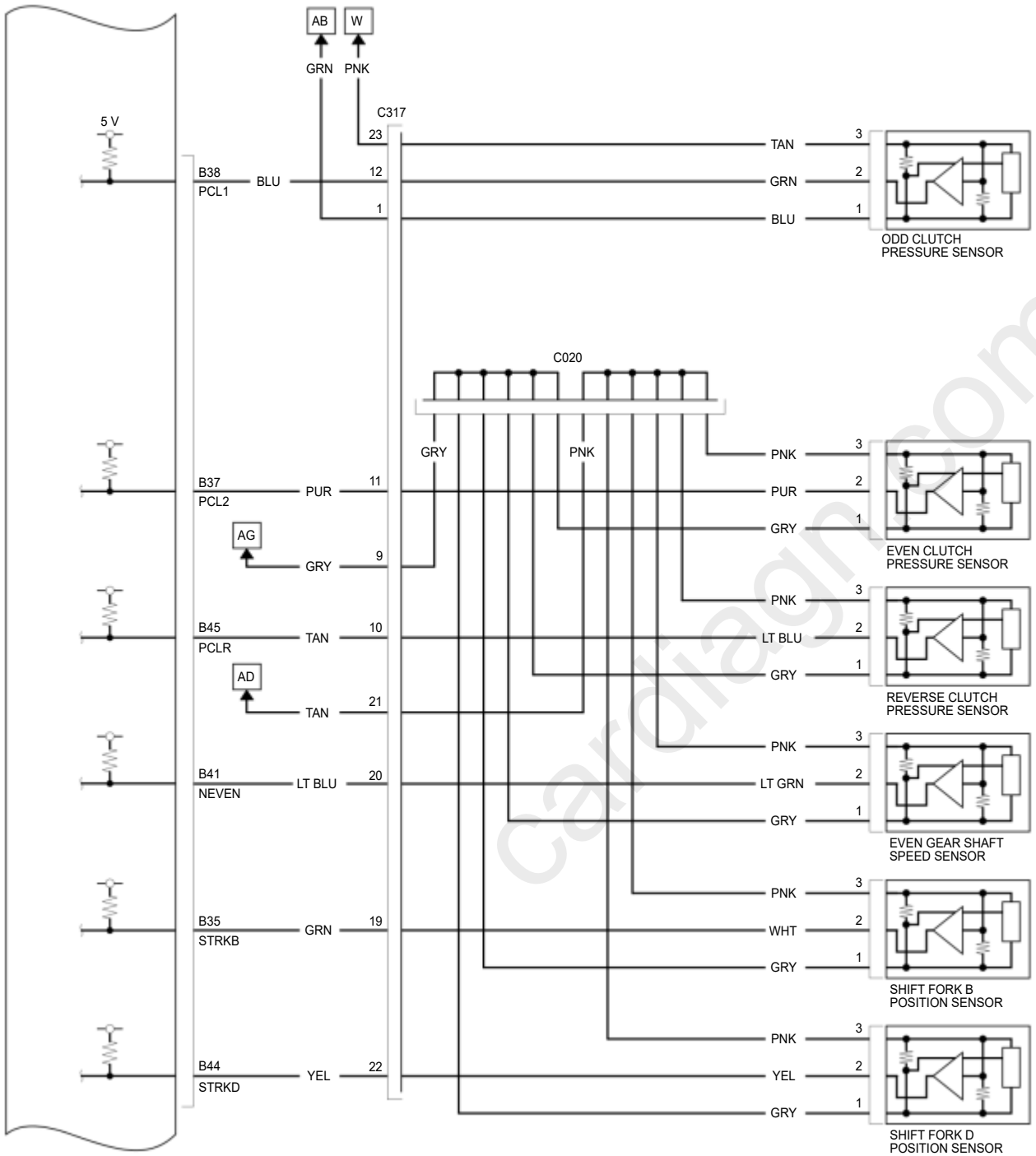


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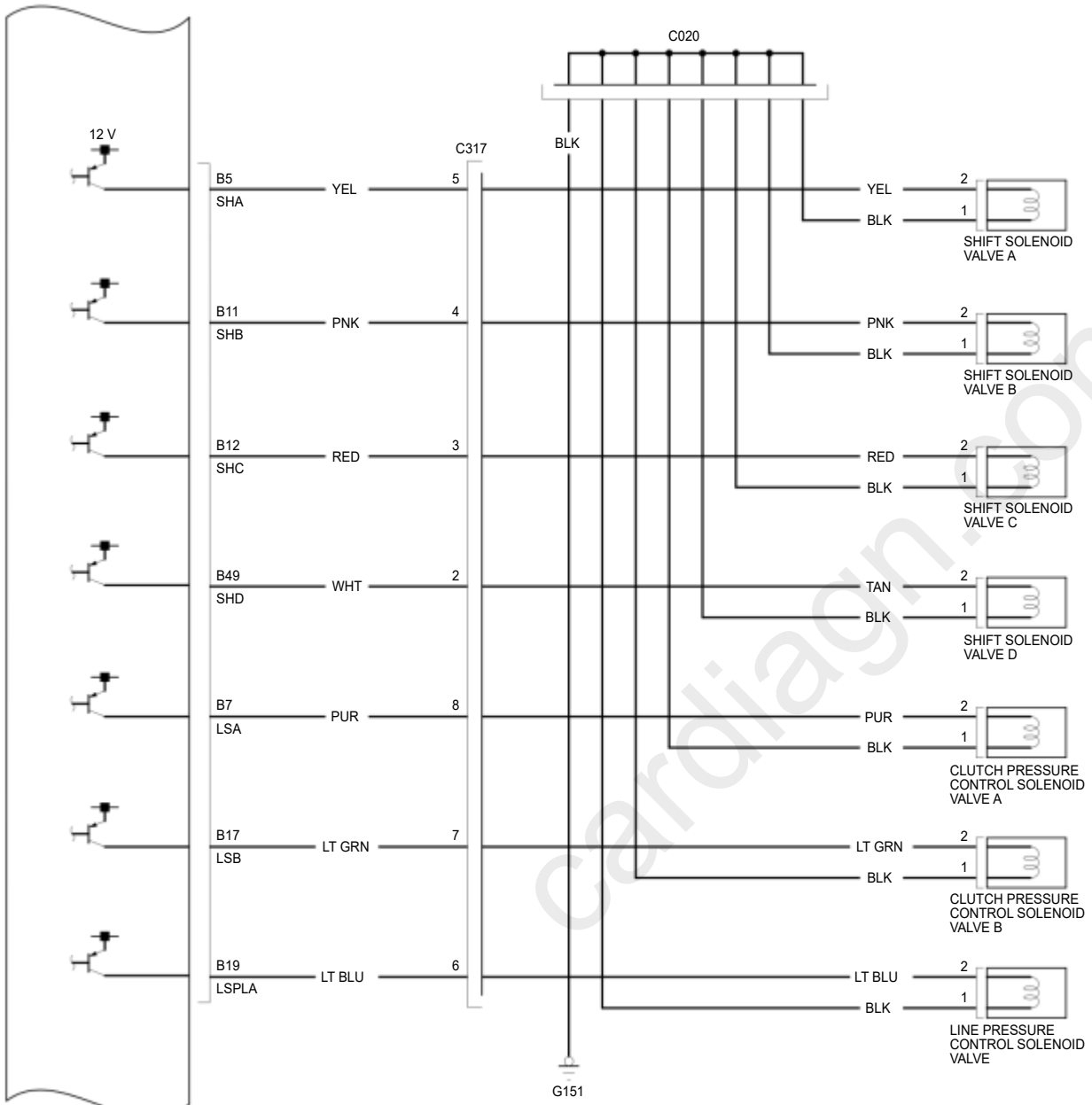
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C306
18
17
20
19
1
2
5 V
C34
ATP-R
WHT
C43
ATP-N
PUR
C23
ATP-D
LT GRN
C21
ATP-FWD1
YEL
C22
ATP-RVS1
TAN
C32
ATP-FWD2
RED
C33
ATP-RVS2
GRN
N
AL
BLU
WHT
PUR
LT GRN
YEL
TAN
RED
GRN
BLK
1
2
3
12
15
11
16
9
8
P
R
N
D
TRANSMISSION
RANGE SWITCH
AF
AC
B33
NM
BLU
TAN
BLU
GRY
3
2
1
INPUT SHAFT
SPEED SENSOR
X
S
B32
NC
LT GRN
PNK
LT GRN
GRN
OUTPUT SHAFT
SPEED SENSOR
Y
T
B42
NODD
WHT
PNK
WHT
GRN
ODD GEAR
SHAFT
SPEED SENSOR
Z
U
B34
STRKA
TAN
PNK
TAN
GRN
SHIFT FORK A
POSITION
SENSOR
AA
V
B36
STRKC
RED
PNK
RED
GRN
SHIFT FORK C
POSITION
SENSOR

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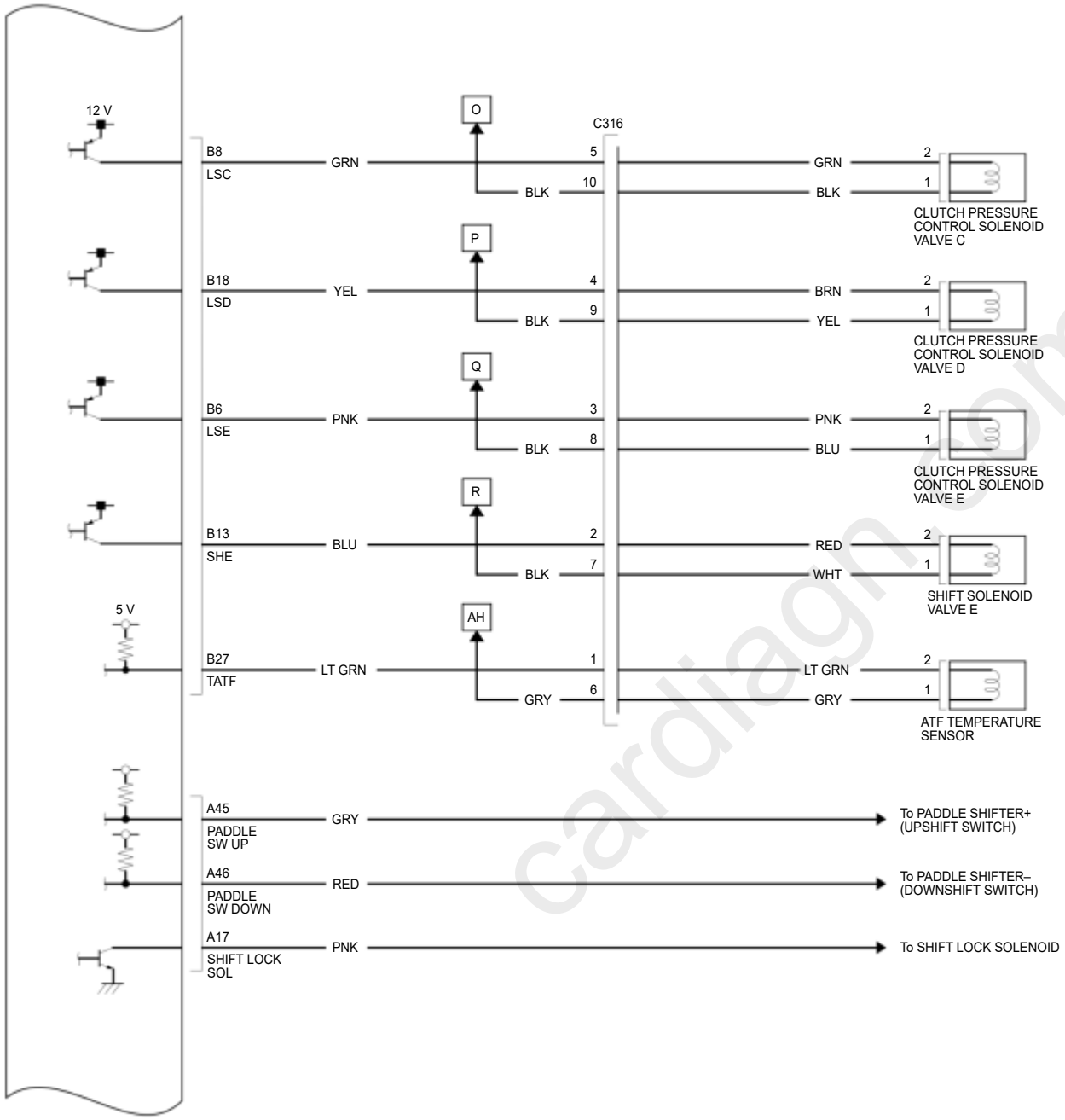

AB
W
GRN
PNK
C317
5 V
B38
PCL1
BLU
23
12
1
TAN
GRN
BLU
3
2
1
ODD CLUTCH
PRESSURE SENSOR
C020
GRY
PNK
B37
PCL2
PUR
11
AG
GRY
9
PNK
PUR
GRY
EVEN CLUTCH
PRESSURE SENSOR
B45
PCLR
TAN
10
AD
TAN
21
PNK
LT BLU
GRY
REVERSE CLUTCH
PRESSURE SENSOR
B41
NEVEN
LT BLU
20
PNK
LT GRN
GRY
EVEN GEAR SHAFT
SPEED SENSOR
B35
STRKB
GRN
19
PNK
WHT
GRY
SHIFT FORK B
POSITION SENSOR
B44
STRKD
YEL
22
PNK
YEL
GRY
SHIFT FORK D
POSITION SENSOR

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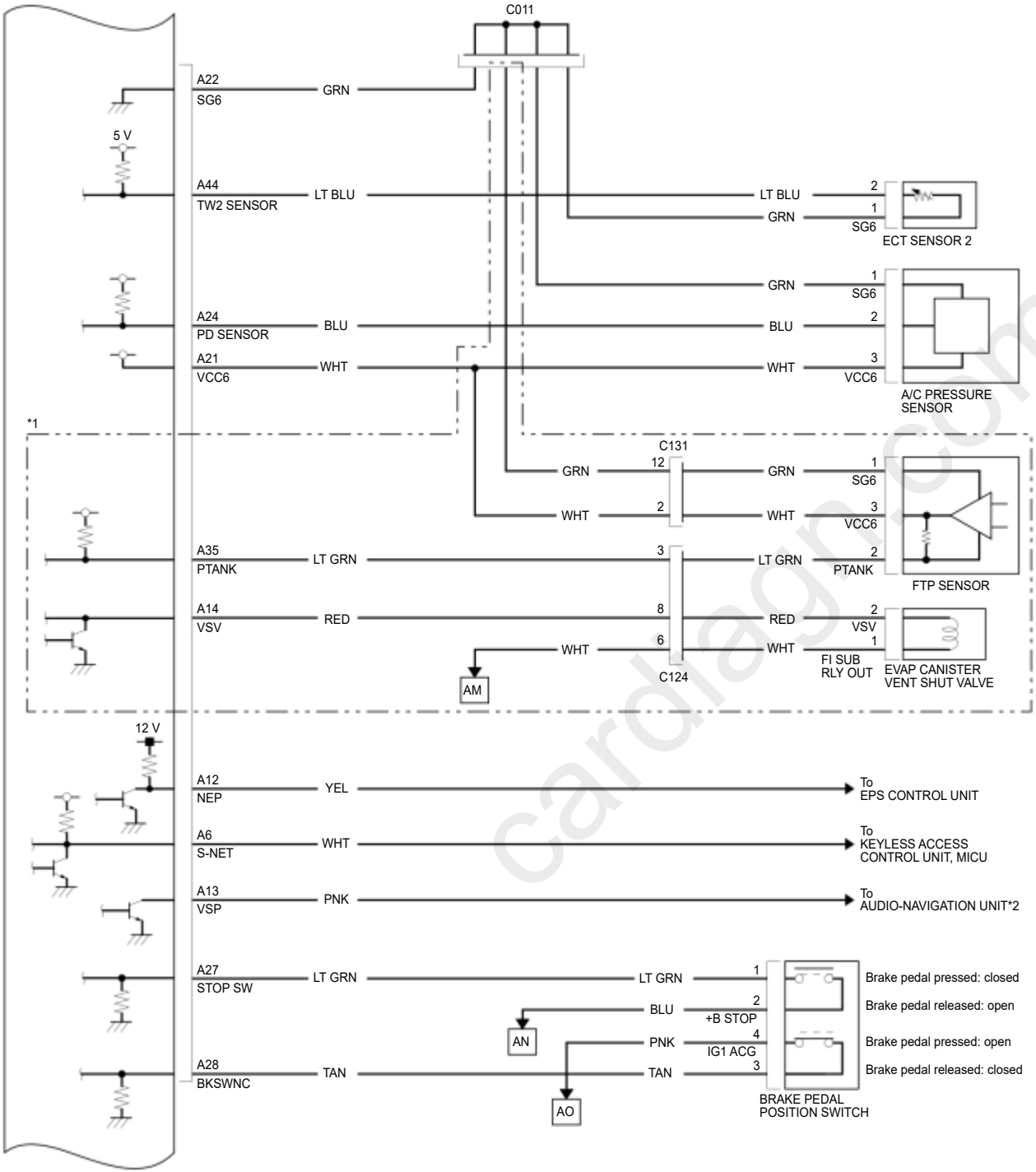
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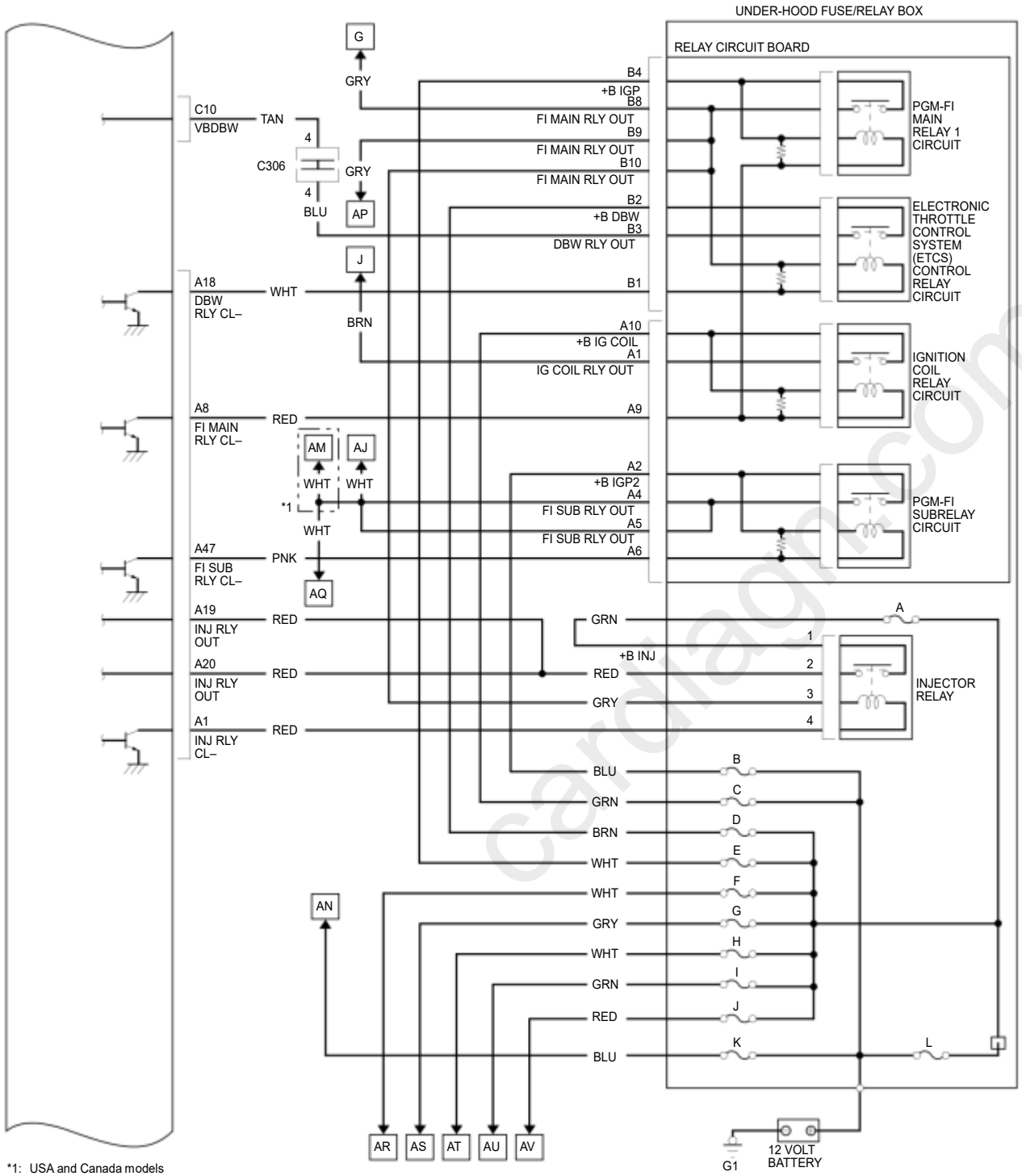


*1: USA and Canada models

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*2: With navigation

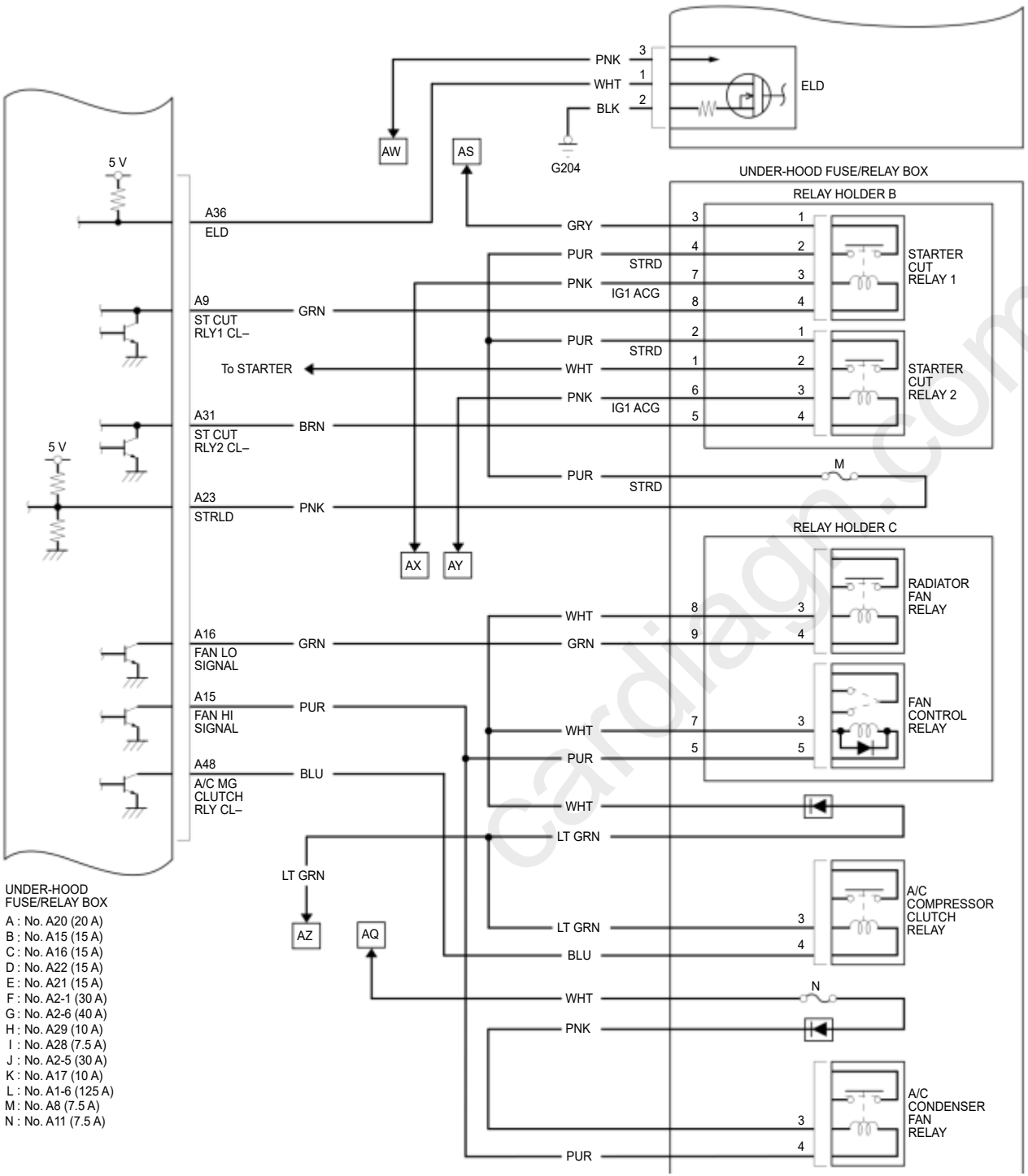
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*1: USA and Canada models

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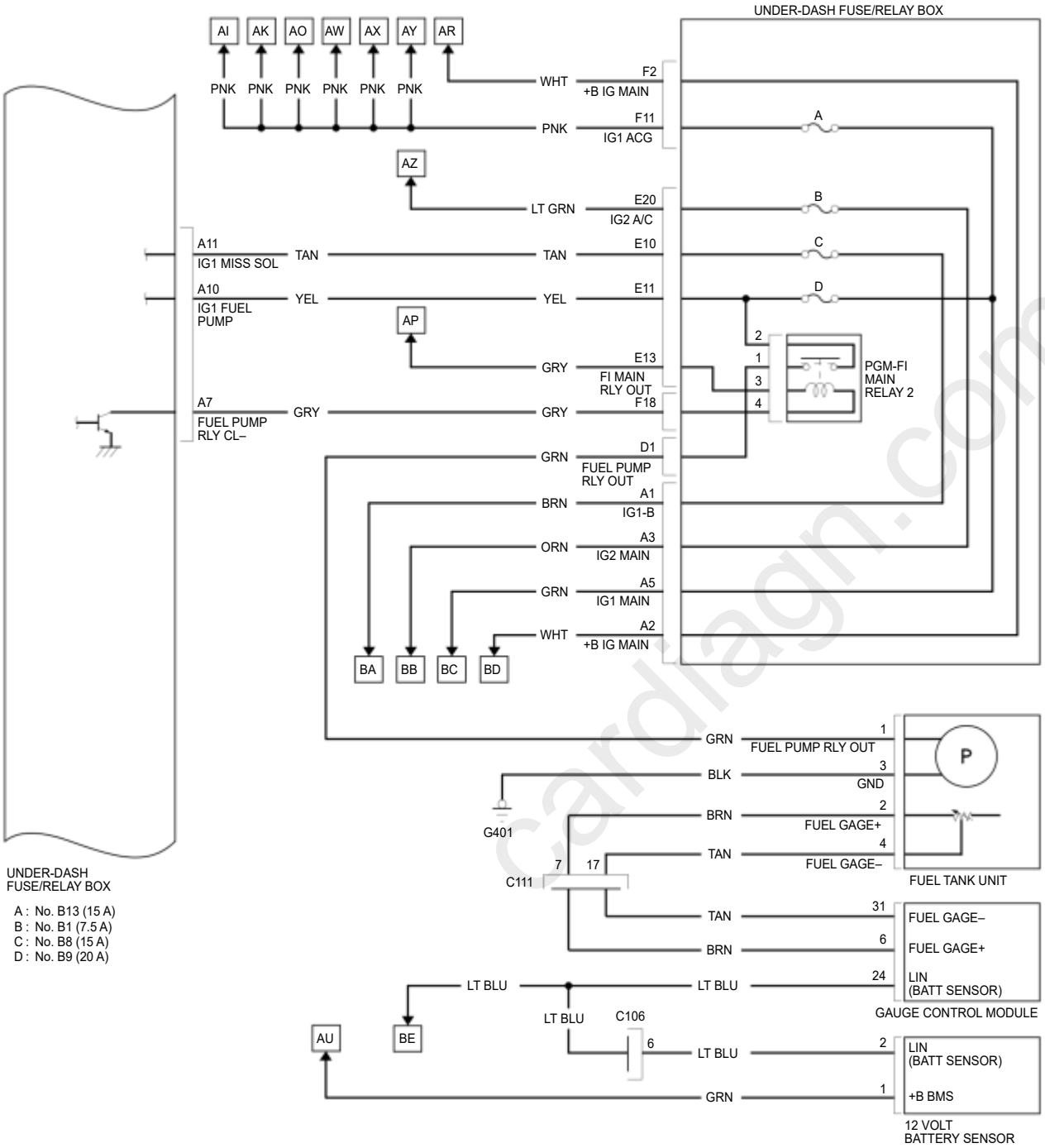


UNDER-HOOD FUSE/RELAY BOX

A : No. A20 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A2-5 (30 A)
K : No. A17 (10 A)
L : No. A1-6 (125 A)
M : No. A8 (7.5 A)
N : No. A11 (7.5 A)

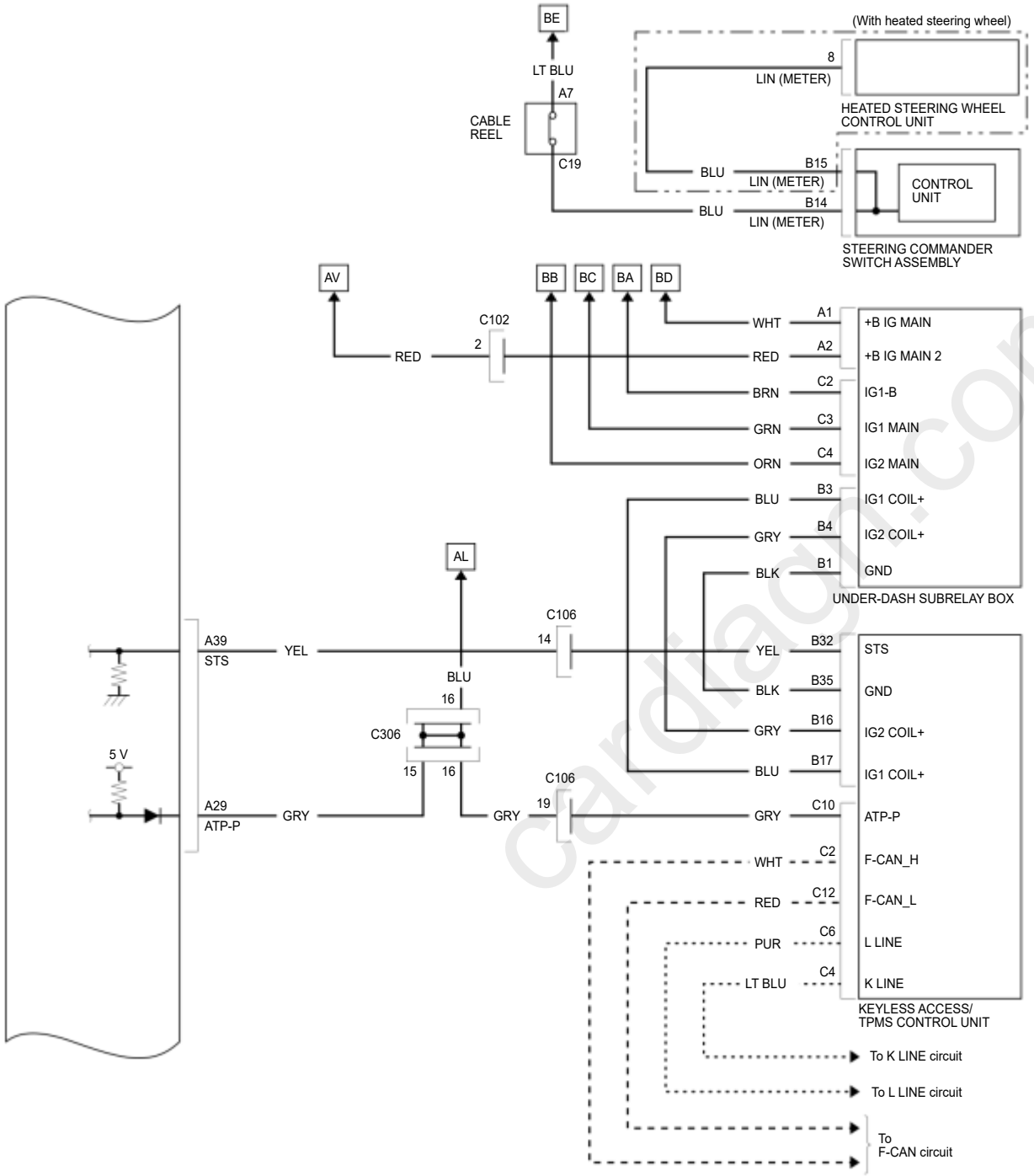
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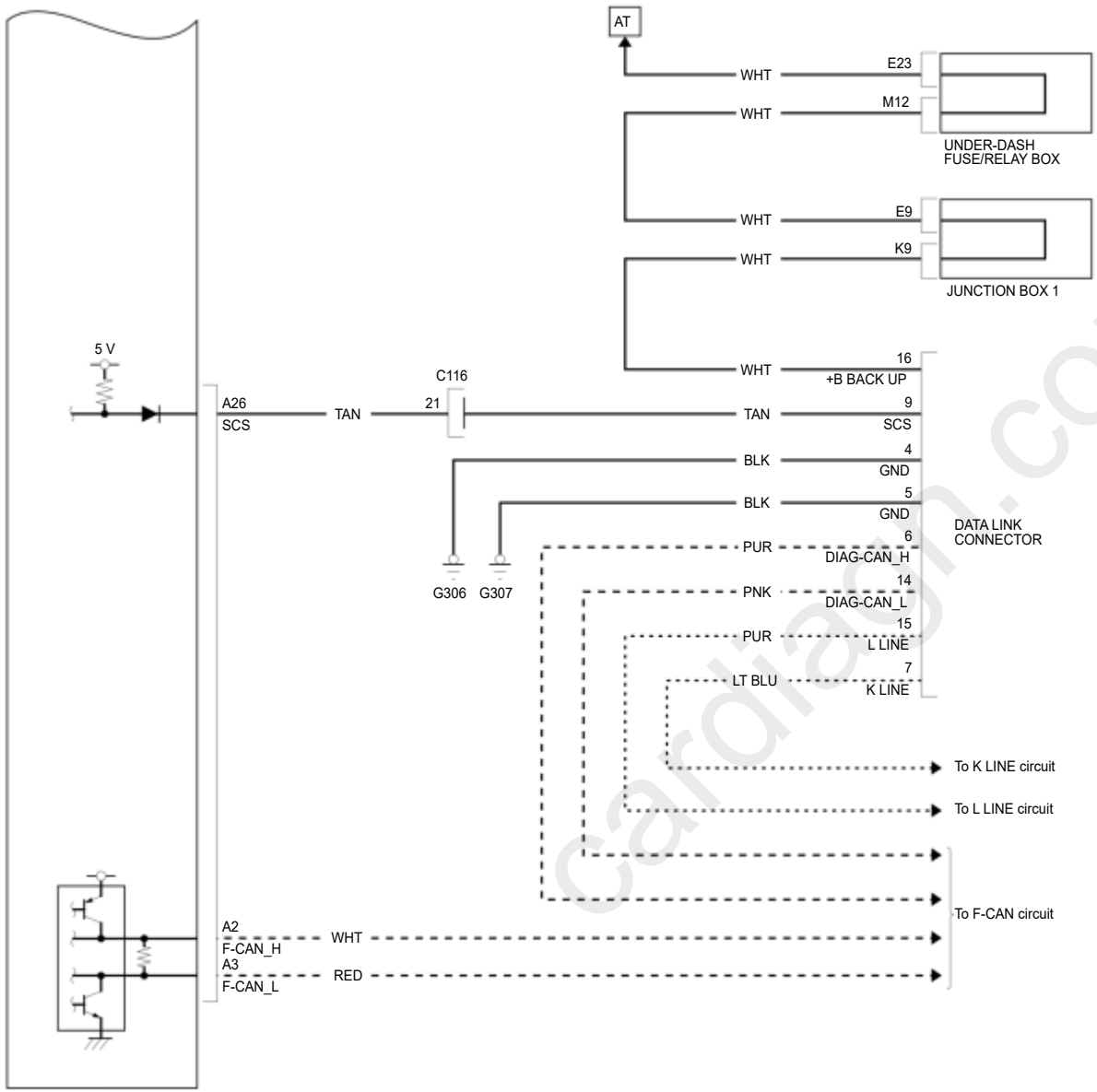


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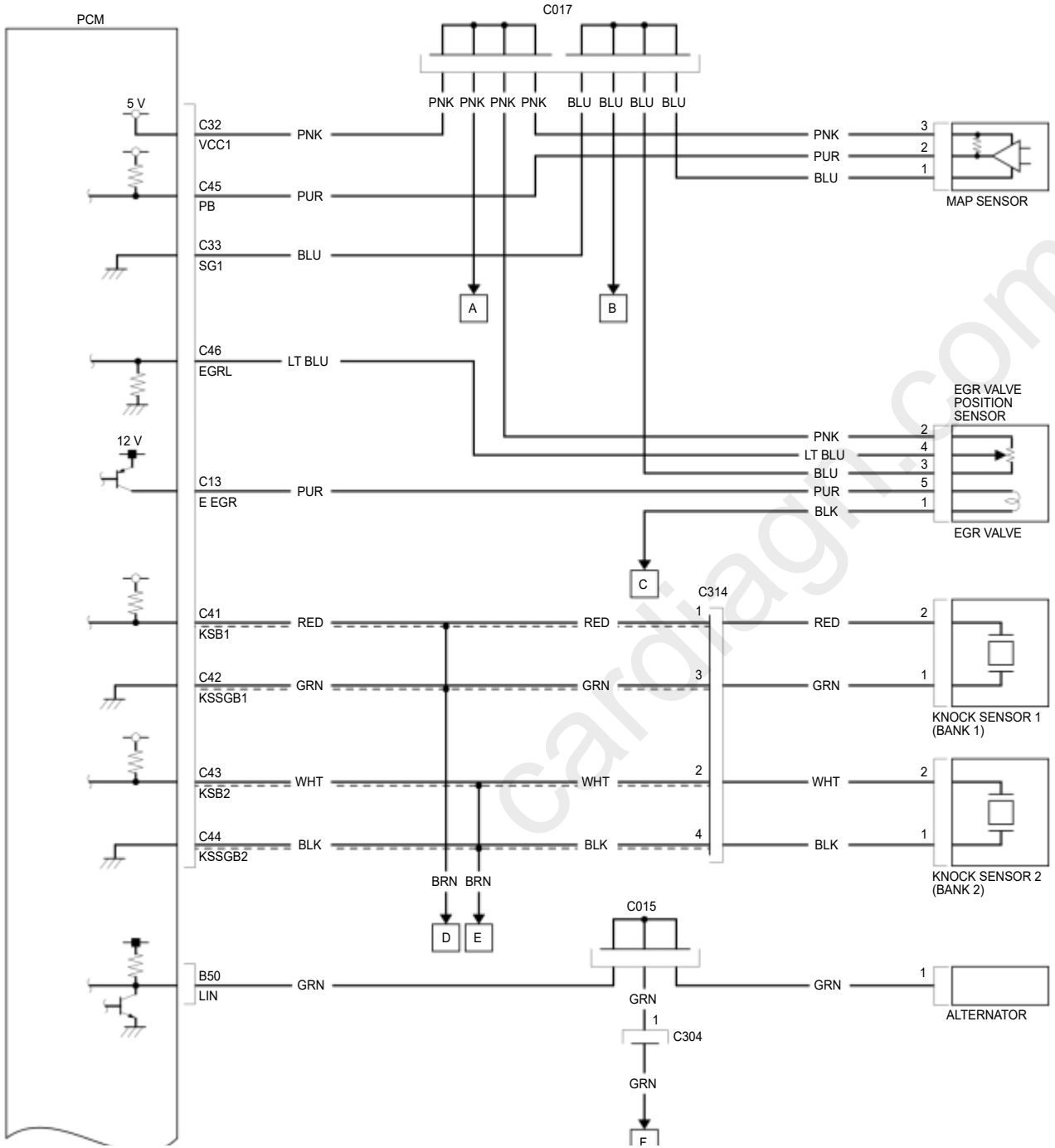


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AT
WHT
E23
WHT
M12
UNDER-DASH
FUSE/RELAY BOX
WHT
E9
WHT
K9
JUNCTION BOX 1
5 V
C116
WHT
16
+B BACK UP
A26
SCS
TAN
21
TAN
9
SCS
BLK
4
GND
BLK
5
GND
DATA LINK
CONNECTOR
PUR
6
DIAG-CAN_H
G306
G307
PNK
14
DIAG-CAN_L
PUR
15
L LINE
LT BLU
7
K LINE
To K LINE circuit
To L LINE circuit
To F-CAN circuit
A2
F-CAN_H
WHT
A3
F-CAN_L
RED

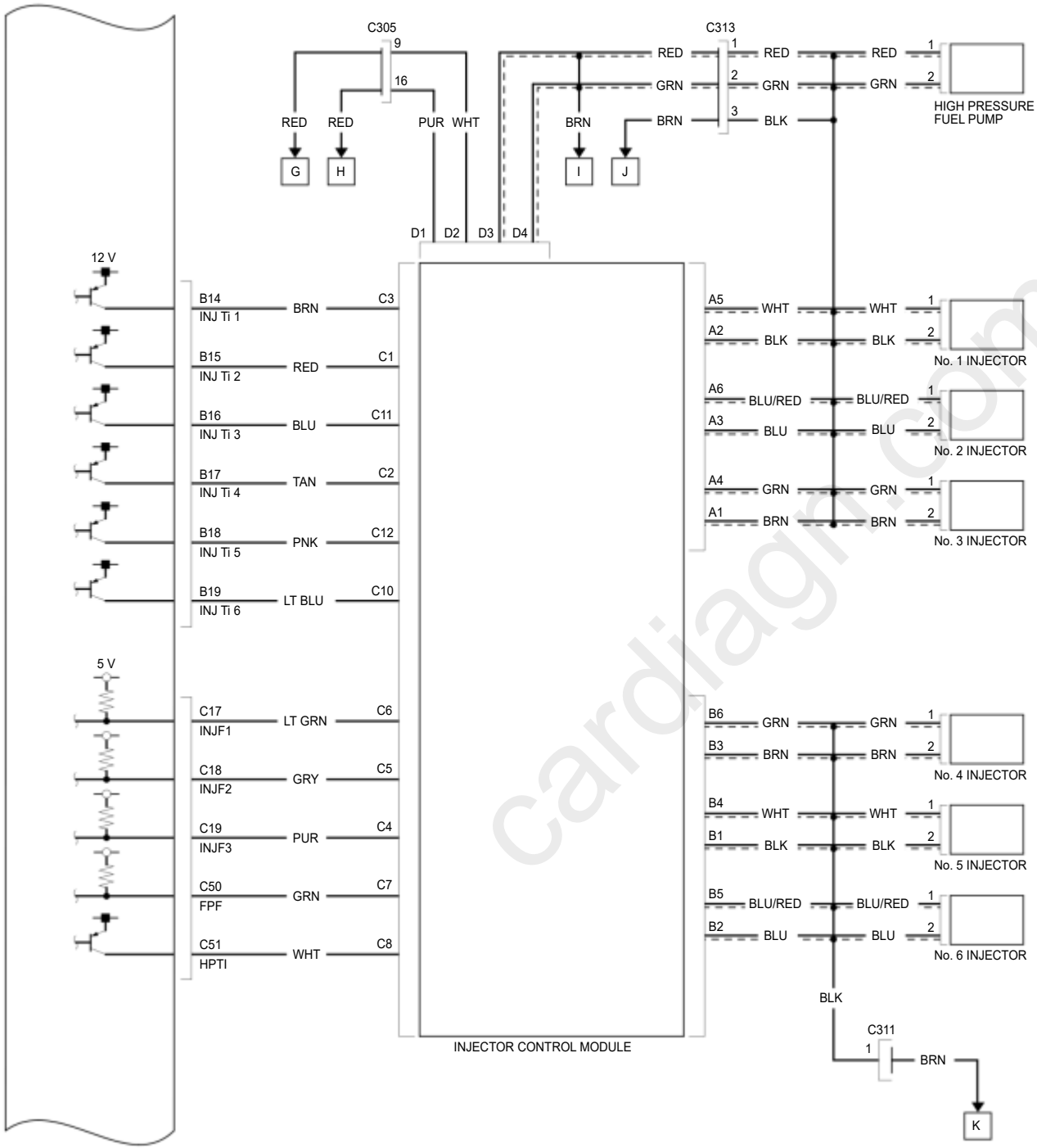
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Fuel and Emissions Systems Circuit Diagram



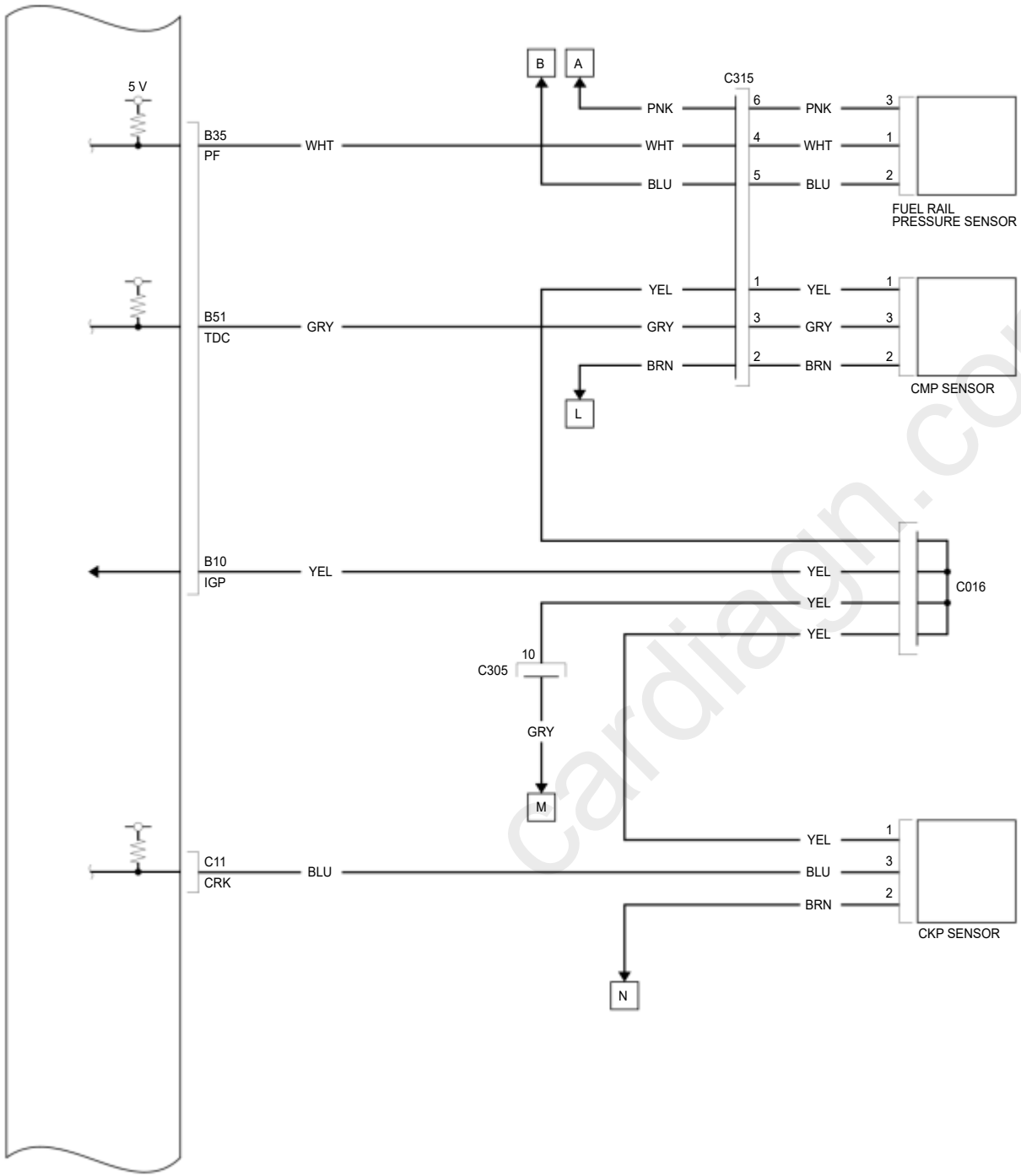


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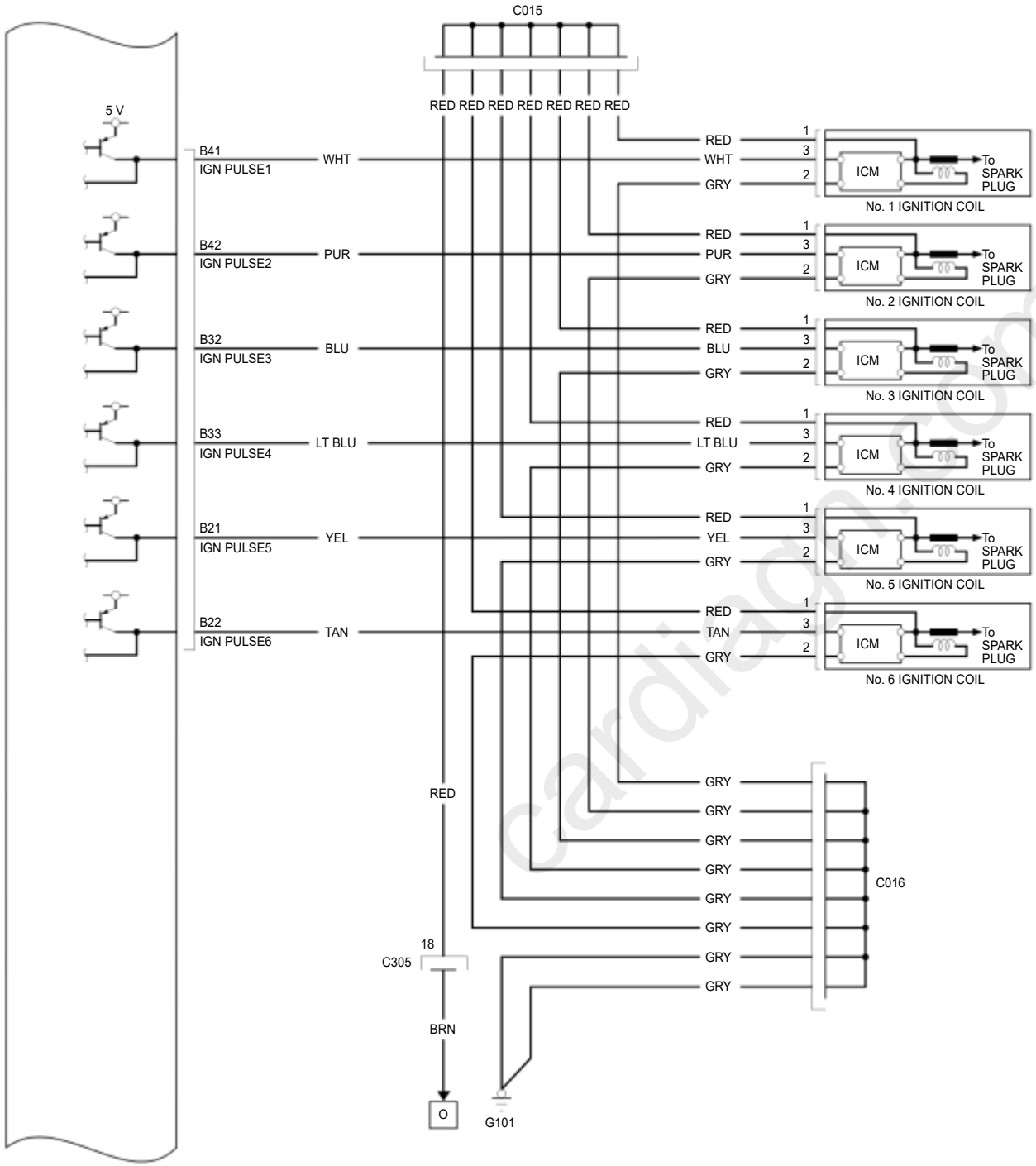
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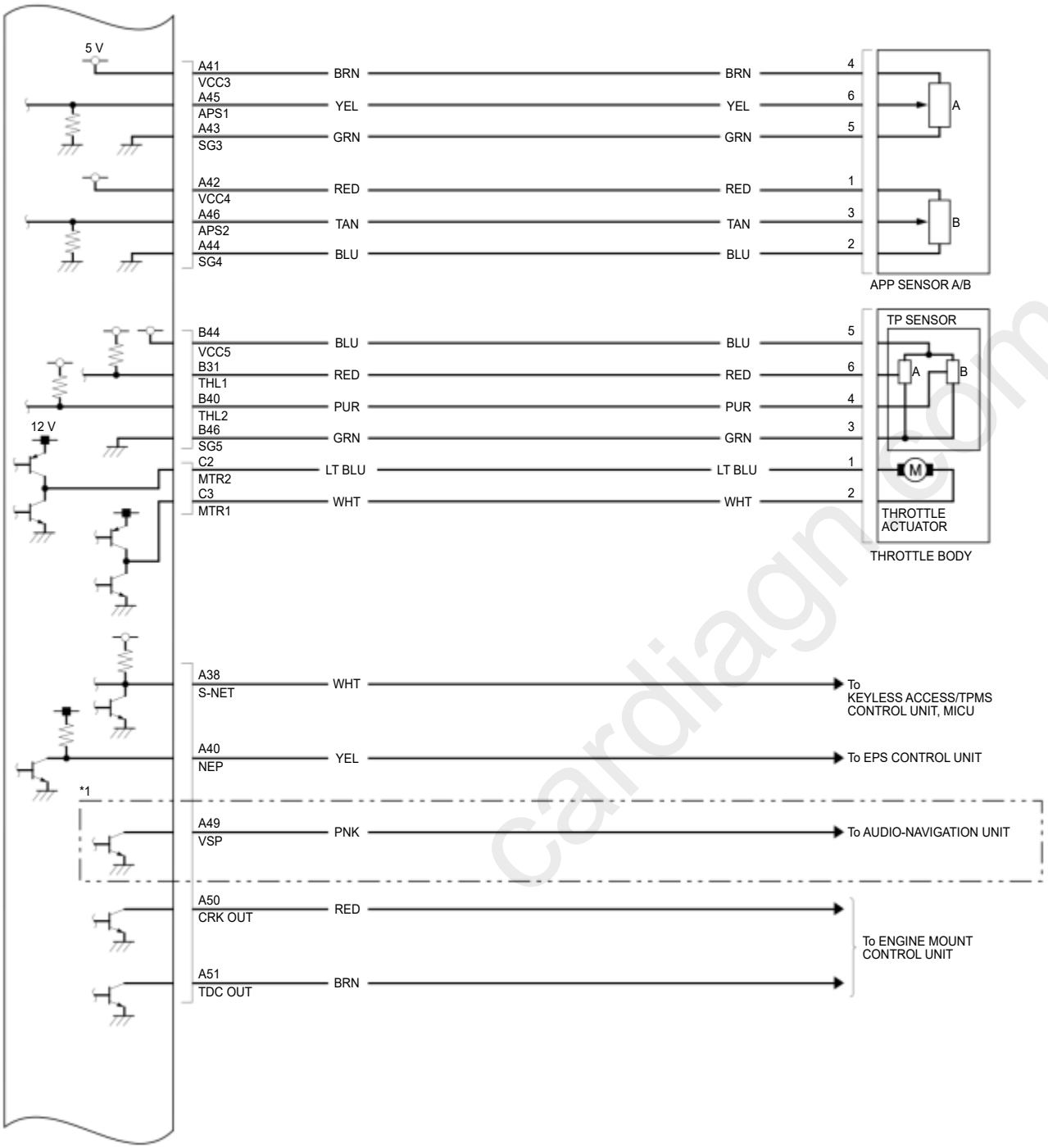


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C015
RED RED RED RED RED RED RED
5 V
B41
IGN PULSE1
WHT
B42
IGN PULSE2
PUR
B32
IGN PULSE3
BLU
B33
IGN PULSE4
LT BLU
B21
IGN PULSE5
YEL
B22
IGN PULSE6
TAN
RED
WHT
GRY
PUR
BLU
LT BLU
YEL
TAN
1
3
2
ICM
To SPARK PLUG
No. 1 IGNITION COIL
No. 2 IGNITION COIL
No. 3 IGNITION COIL
No. 4 IGNITION COIL
No. 5 IGNITION COIL
No. 6 IGNITION COIL
C016
18
C305
BRN
O
G101

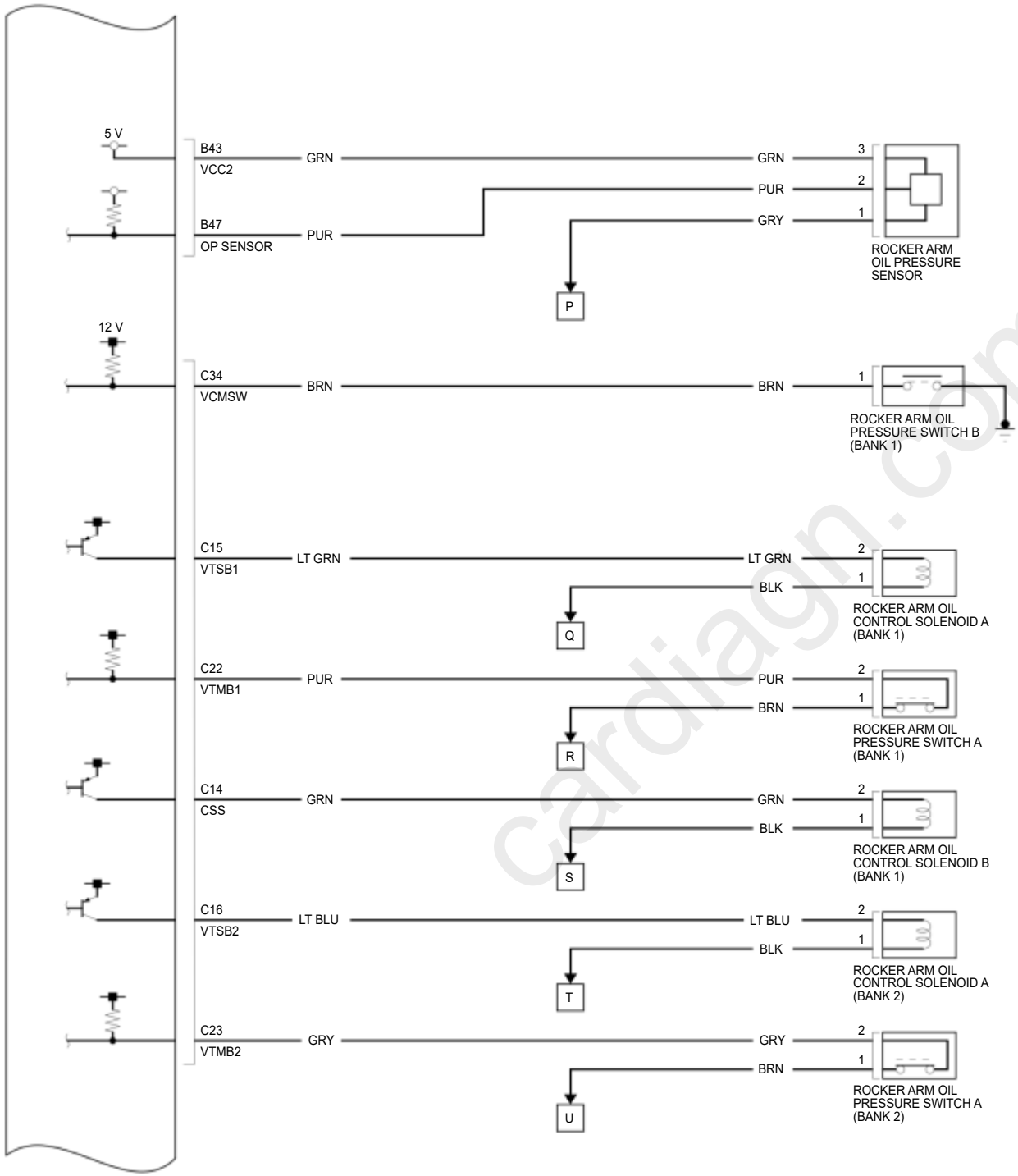
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*1: With navigation

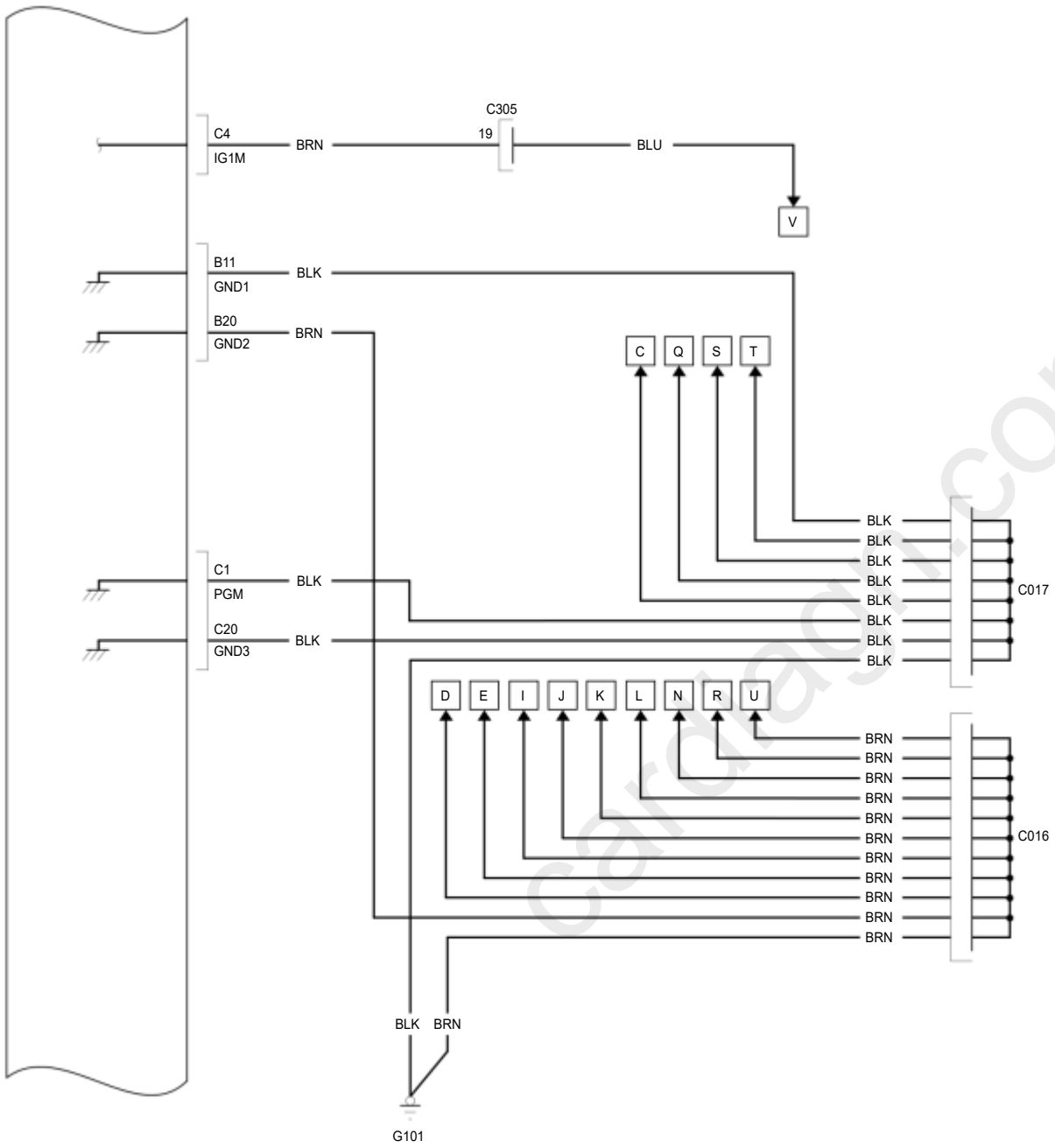
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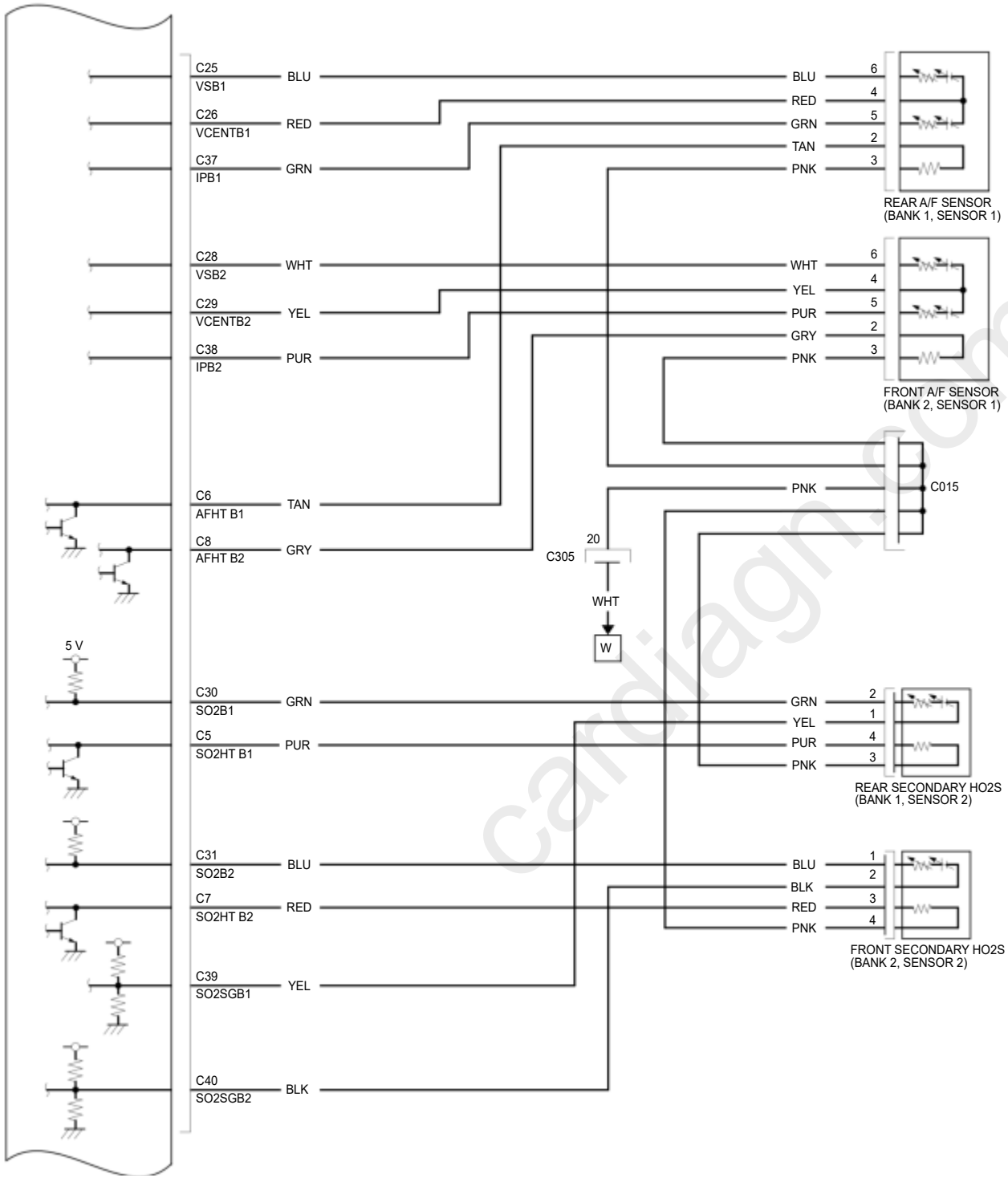


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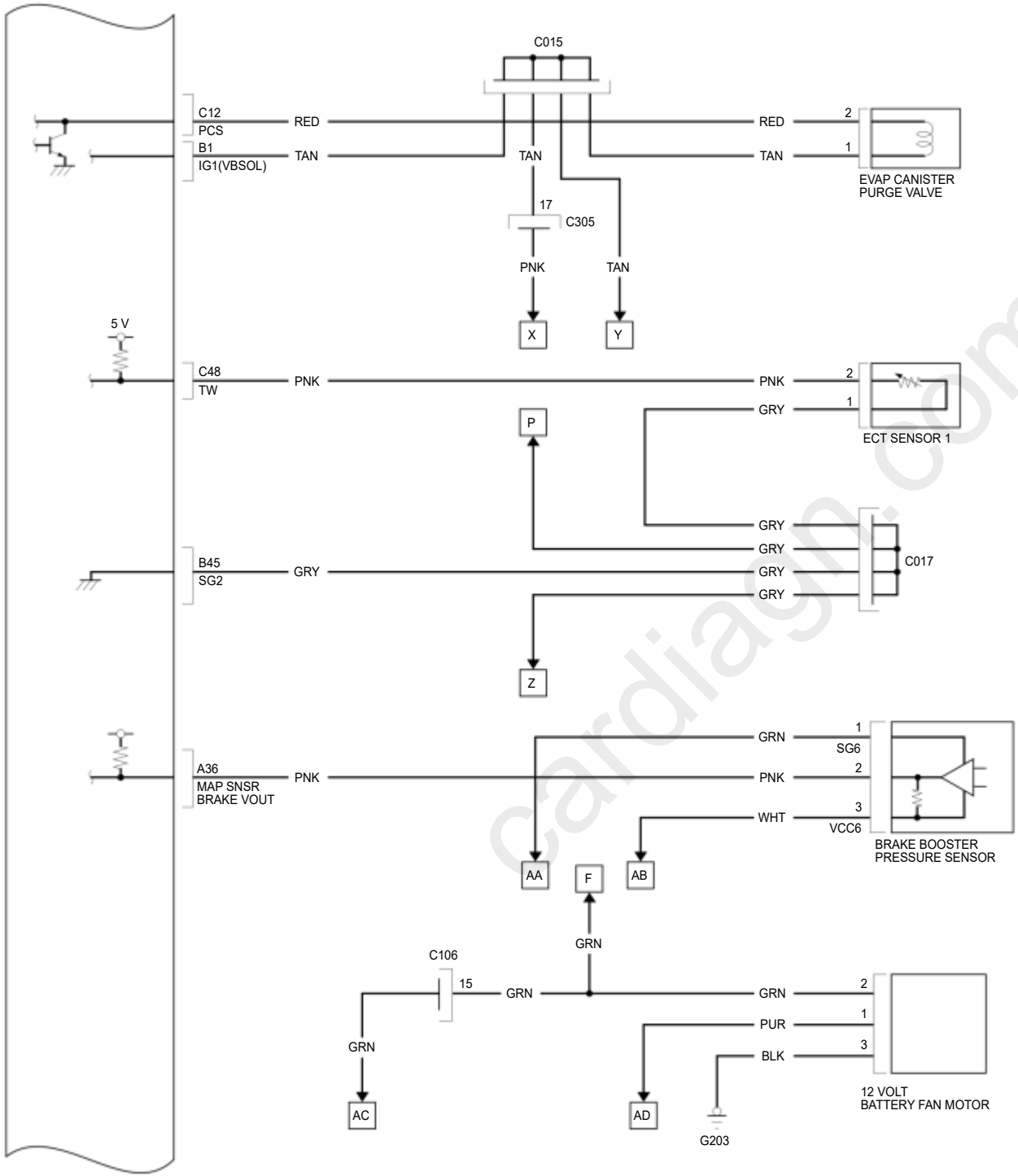

C4
IG1M
BRN
C305
19
BLU
V
B11
GND1
BLK
B20
GND2
BRN
C
Q
S
T
BLK
BLK
BLK
BLK
BLK
BLK
BLK
BLK
C017
C1
PGM
BLK
C20
GND3
BLK
D
E
I
J
K
L
N
R
U
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
C016
BLK
BRN
G101

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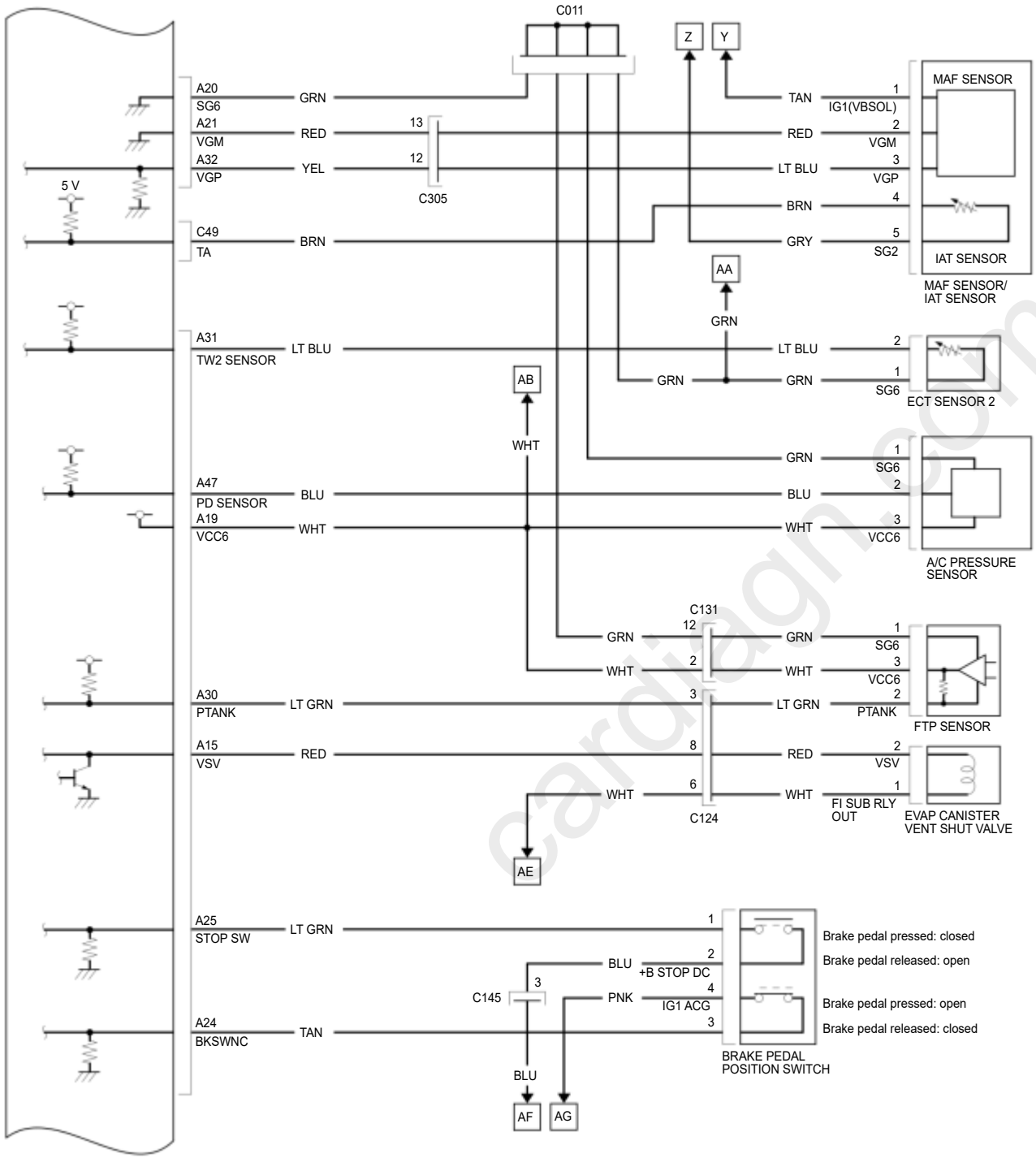


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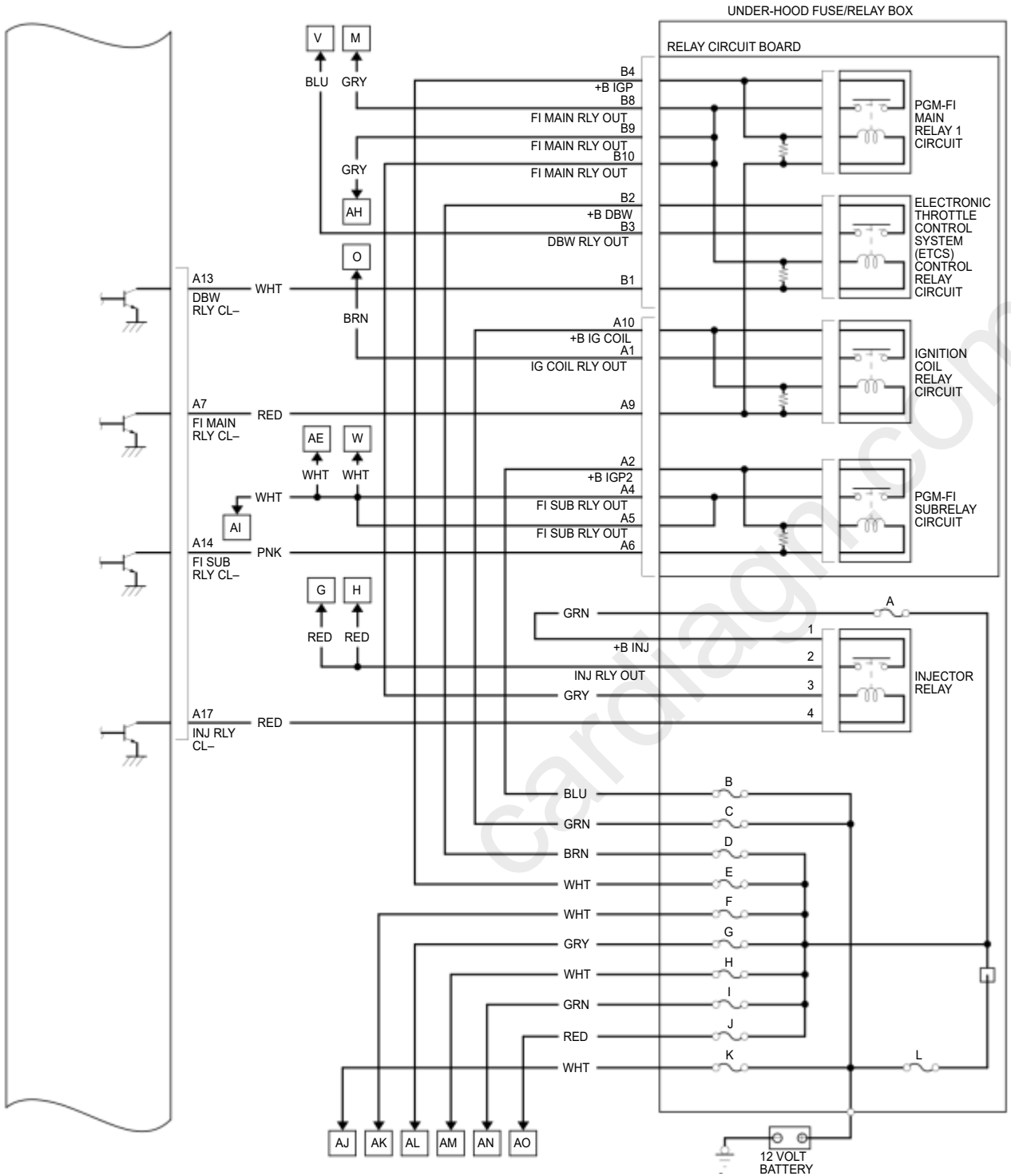

C015
C12
PCS
B1
IG1(VBSOL)
RED
TAN
TAN
RED
TAN
2
1
EVAP CANISTER
PURGE VALVE
17
C305
PNK
TAN
X
Y
5 V
C48
TW
PNK
PNK
GRY
2
1
ECT SENSOR 1
P
GRY
GRY
GRY
GRY
C017
B45
SG2
GRY
Z
A36
MAP SNSR
BRAKE VOUT
PNK
GRN
PNK
WHT
1
SG6
2
3
VCC6
BRAKE BOOSTER
PRESSURE SENSOR
AA
F
AB
GRN
C106
15
GRN
GRN
GRN
AC
GRN
PUR
BLK
2
1
3
12 VOLT
BATTERY FAN MOTOR
AD
G203

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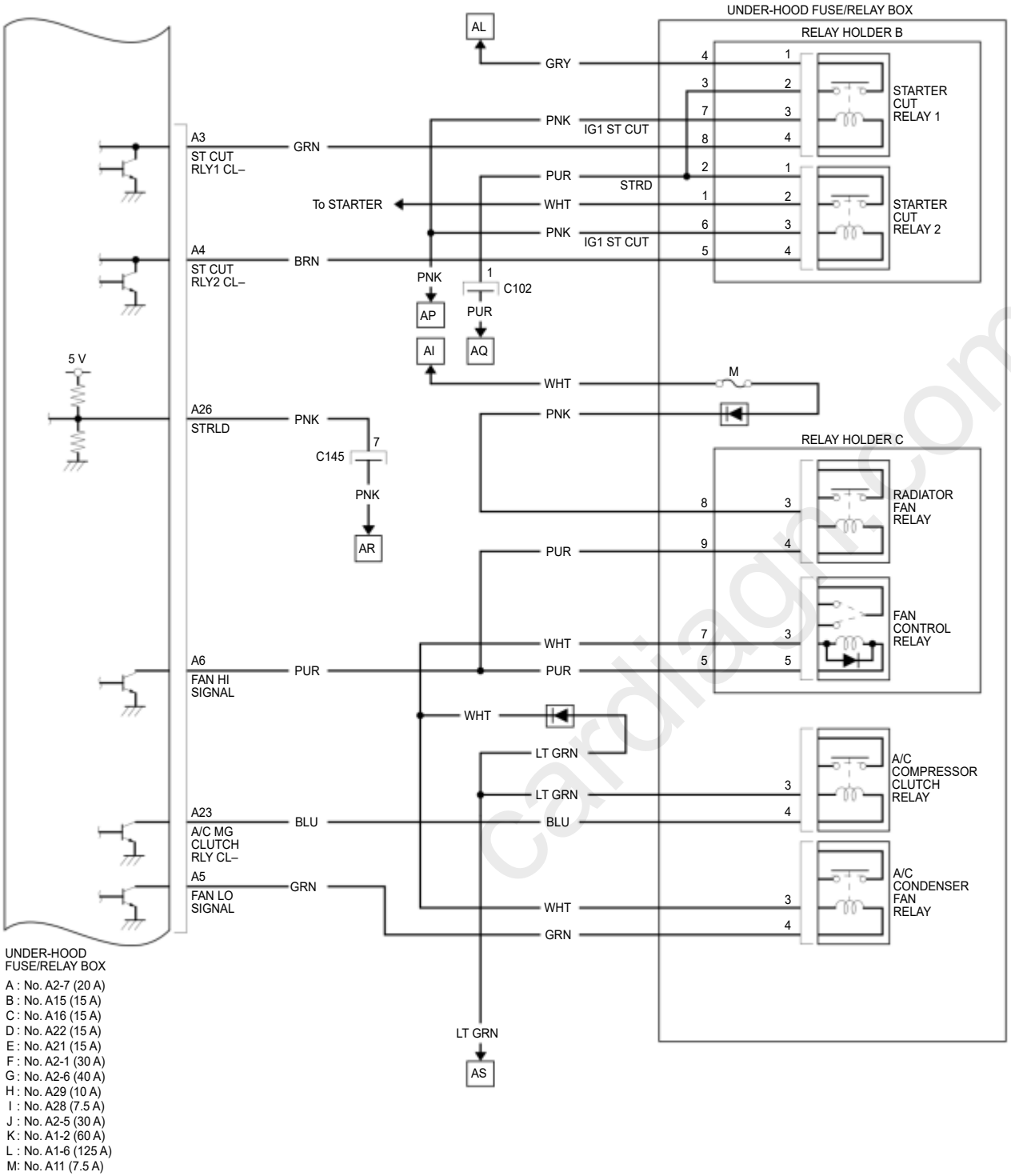


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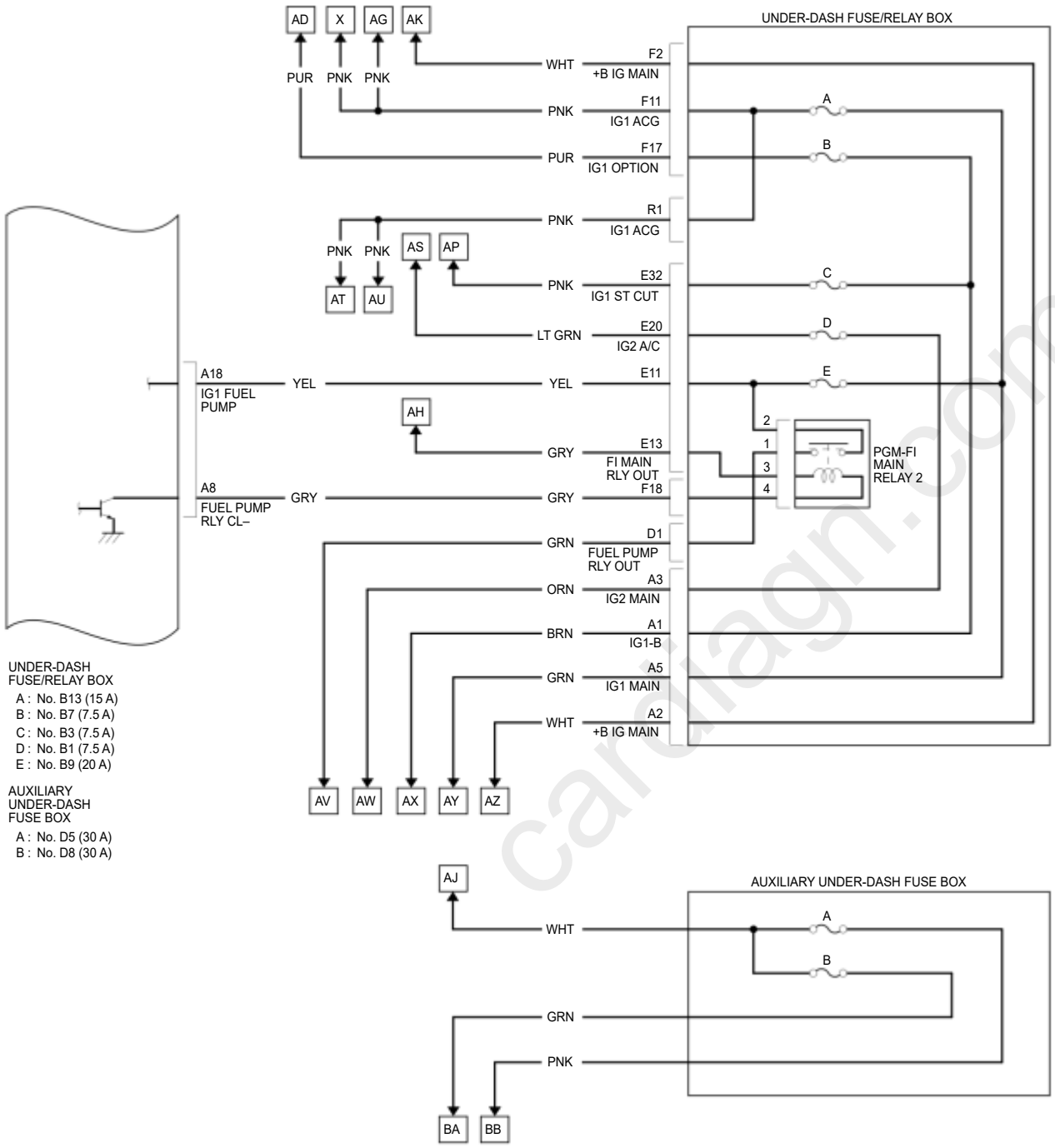
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UNDER-HOOD FUSE/RELAY BOX
RELAY CIRCUIT BOARD
V
M
BLU
GRY
B4
+B IGP
B8
FI MAIN RLY OUT
B9
FI MAIN RLY OUT
B10
FI MAIN RLY OUT
PGM-FI MAIN RELAY 1 CIRCUIT
GRY
AH
B2
+B DBW
B3
DBW RLY OUT
ELECTRONIC THROTTLE CONTROL SYSTEM (ETCS) CONTROL RELAY CIRCUIT
O
A13
DBW RLY CL–
WHT
B1
BRN
A10
+B IG COIL
A1
IG COIL RLY OUT
IGNITION COIL RELAY CIRCUIT
A7
FI MAIN RLY CL–
RED
A9
AE
W
WHT
WHT
A2
+B IGP2
A4
FI SUB RLY OUT
A5
FI SUB RLY OUT
A6
PGM-FI SUBRELAY CIRCUIT
WHT
AI
A14
FI SUB RLY CL–
PNK
G
H
RED
RED
GRN
A
1
+B INJ
2
INJ RLY OUT
3
GRY
4
INJECTOR RELAY
A17
INJ RLY CL–
RED
BLU
B
GRN
C
BRN
D
WHT
E
WHT
F
GRY
G
WHT
H
GRN
I
RED
J
WHT
K
L
AJ
AK
AL
AM
AN
AO
12 VOLT BATTERY

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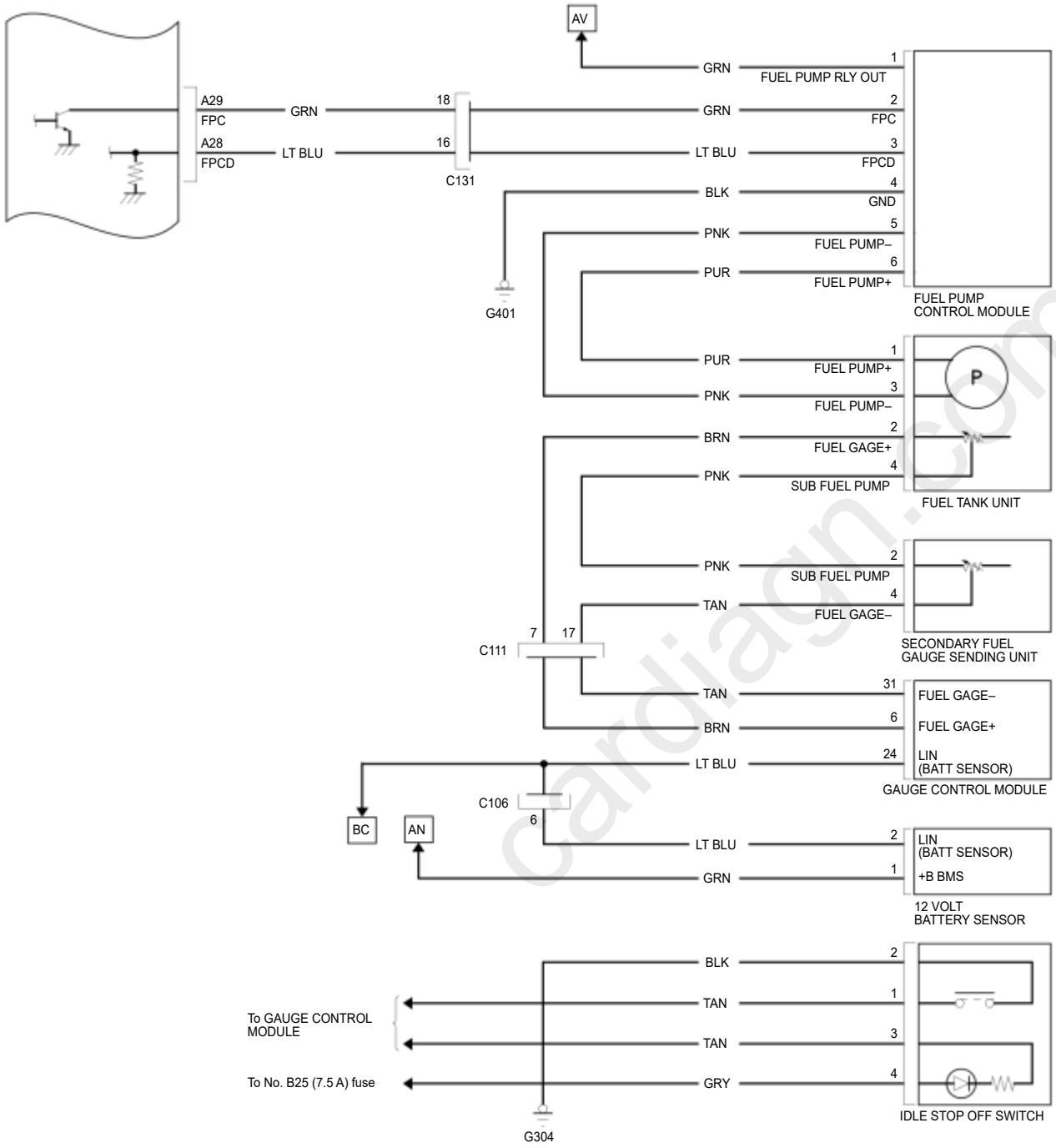

UNDER-HOOD FUSE/RELAY BOX
RELAY HOLDER B
AL
GRY
4
1
3
2
7
3
8
4
PNK
IG1 ST CUT
STARTER CUT RELAY 1
A3
ST CUT RLY1 CL–
GRN
PUR
STRD
2
1
To STARTER
WHT
1
2
PNK
IG1 ST CUT
6
3
STARTER CUT RELAY 2
A4
ST CUT RLY2 CL–
BRN
5
4
PNK
1
C102
AP
PUR
AI
AQ
5 V
WHT
M
A26
STRLD
PNK
PNK
C145
7
PNK
AR
RELAY HOLDER C
8
3
RADIATOR FAN RELAY
PUR
9
4
FAN CONTROL RELAY
WHT
7
3
A6
FAN HI SIGNAL
PUR
PUR
5
5
WHT
LT GRN
A/C COMPRESSOR CLUTCH RELAY
LT GRN
3
4
A23
A/C MG CLUTCH RLY CL–
BLU
BLU
A5
FAN LO SIGNAL
GRN
A/C CONDENSER FAN RELAY
WHT
3
GRN
4
LT GRN
AS
UNDER-HOOD FUSE/RELAY BOX
A : No. A2-7 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A2-5 (30 A)
K : No. A1-2 (60 A)
L : No. A1-6 (125 A)
M: No. A11 (7.5 A)

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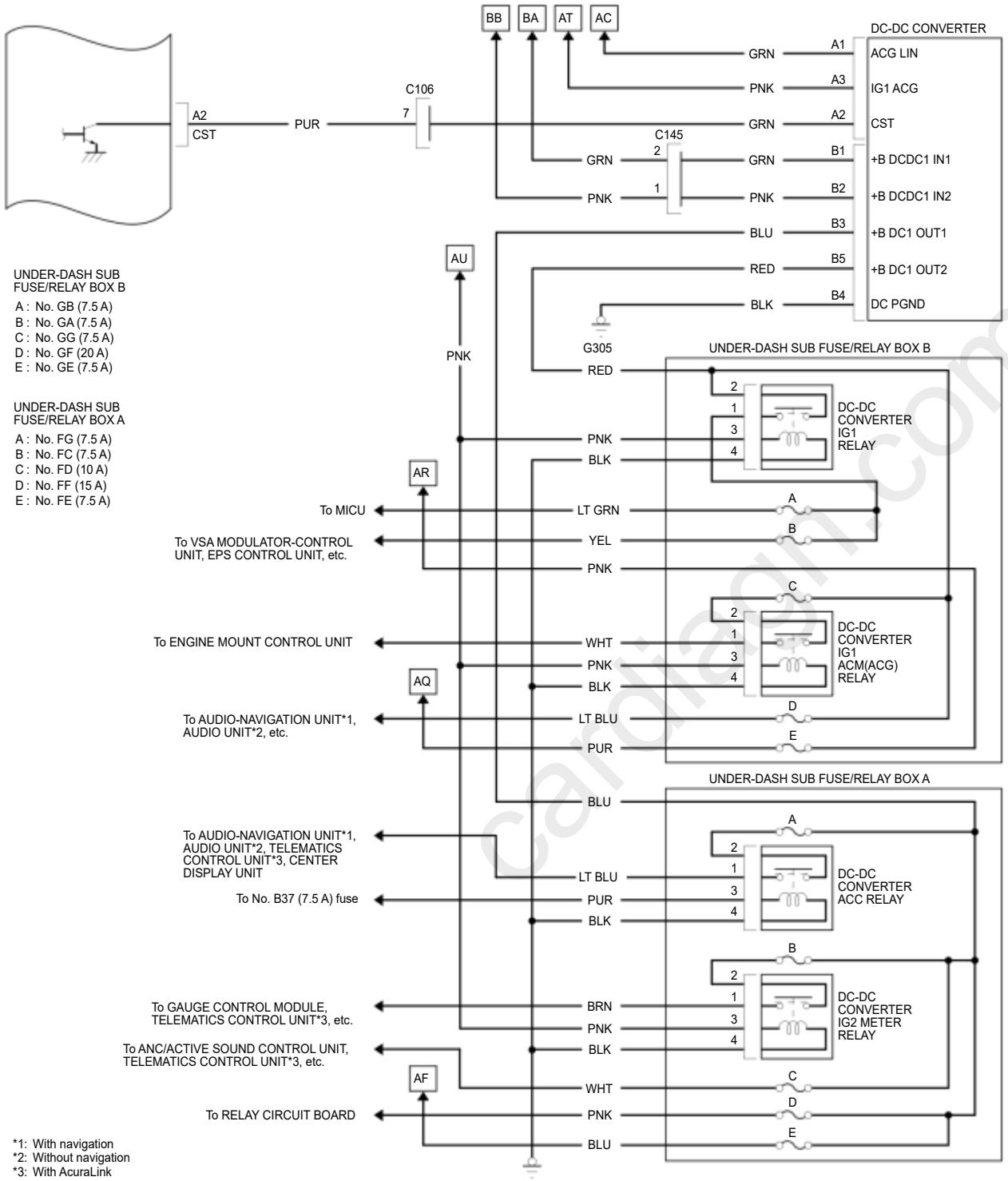
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UNDER-DASH SUB FUSE/RELAY BOX B

A : No. GB (7.5 A)
B : No. GA (7.5 A)
C : No. GG (7.5 A)
D : No. GF (20 A)
E : No. GE (7.5 A)

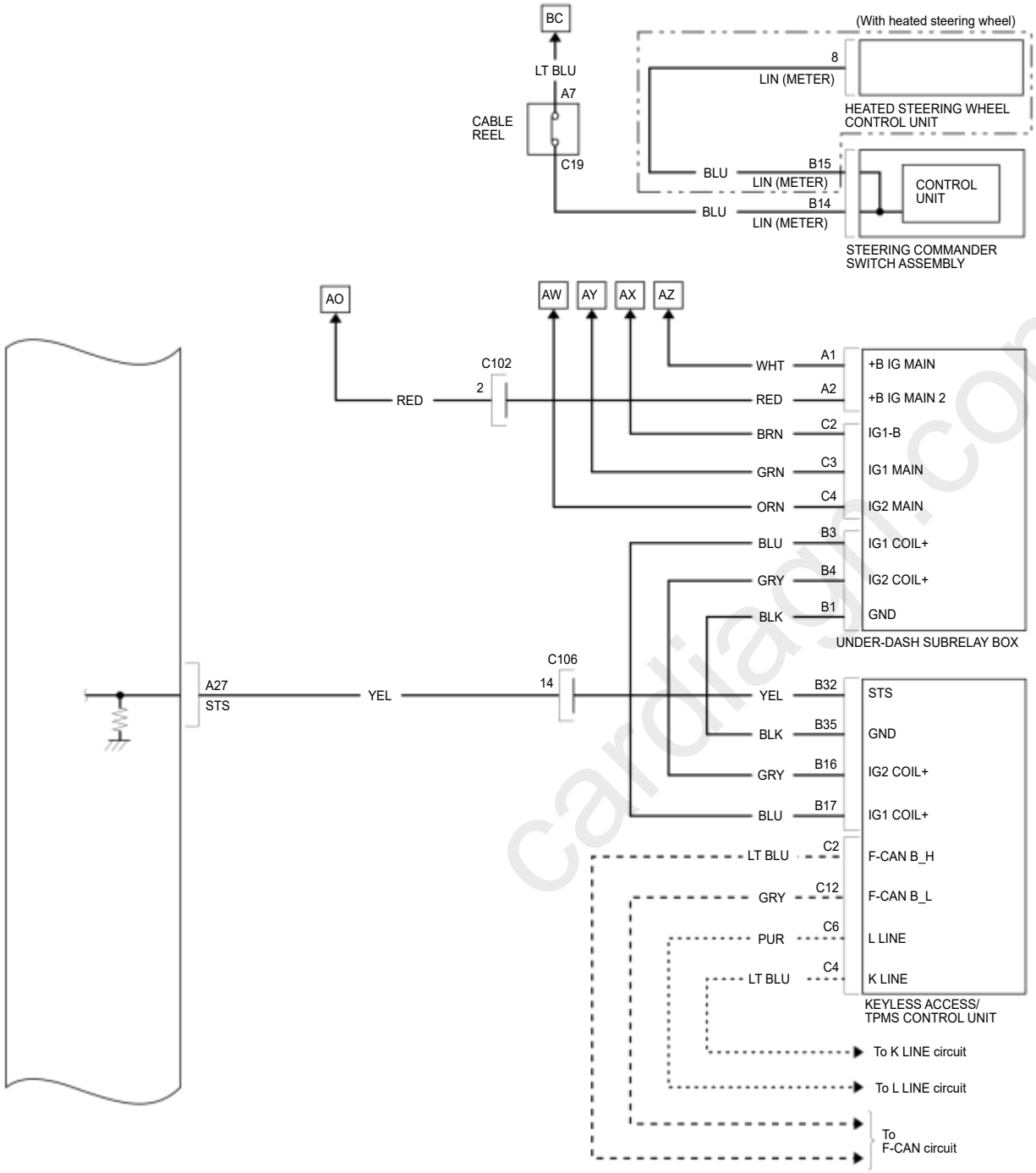
UNDER-DASH SUB FUSE/RELAY BOX A

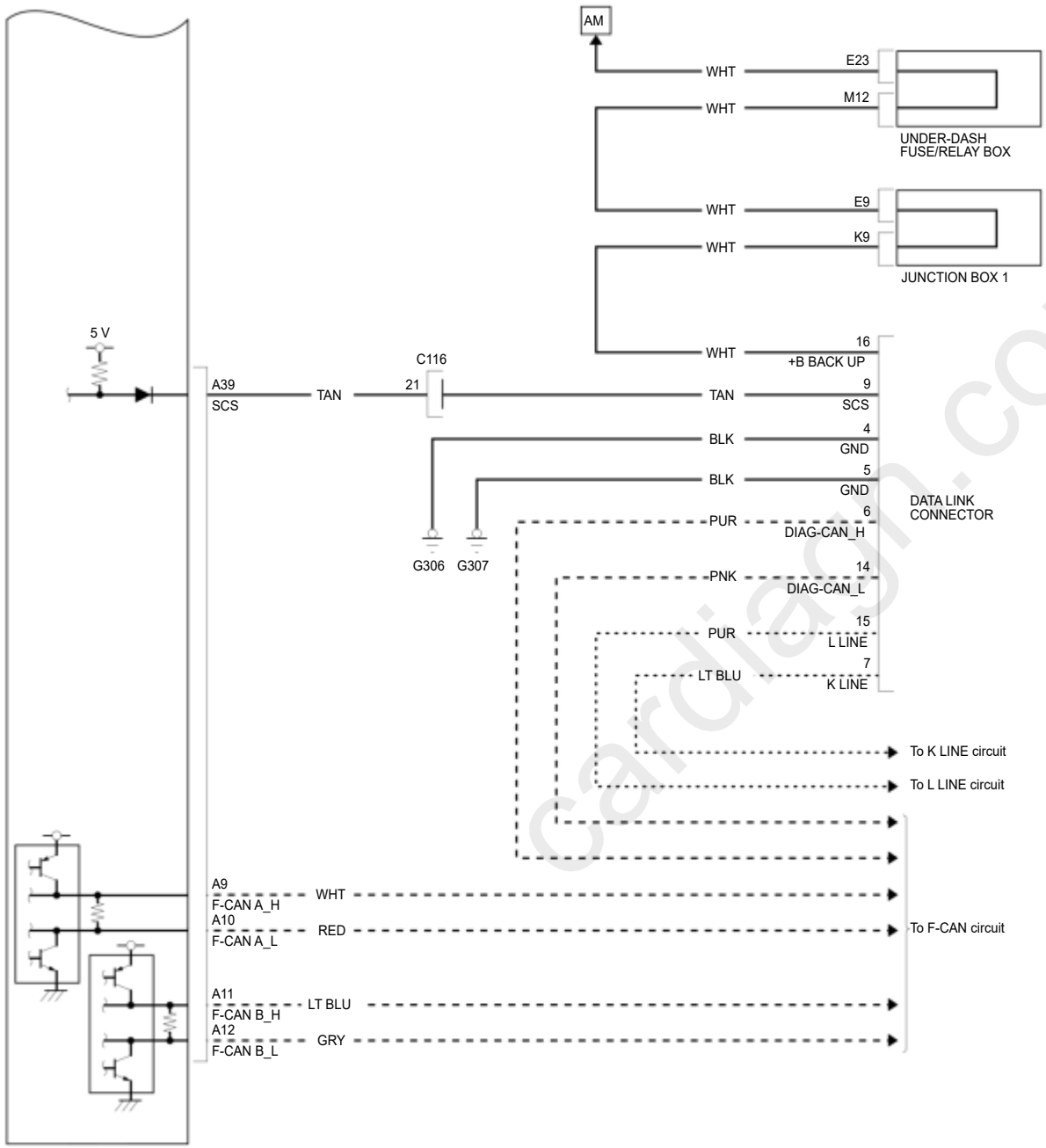
A : No. FG (7.5 A)
B : No. FC (7.5 A)
C : No. FD (10 A)
D : No. FF (15 A)
E : No. FE (7.5 A)

*1: With navigation
*2: Without navigation
*3: With AcuraLink

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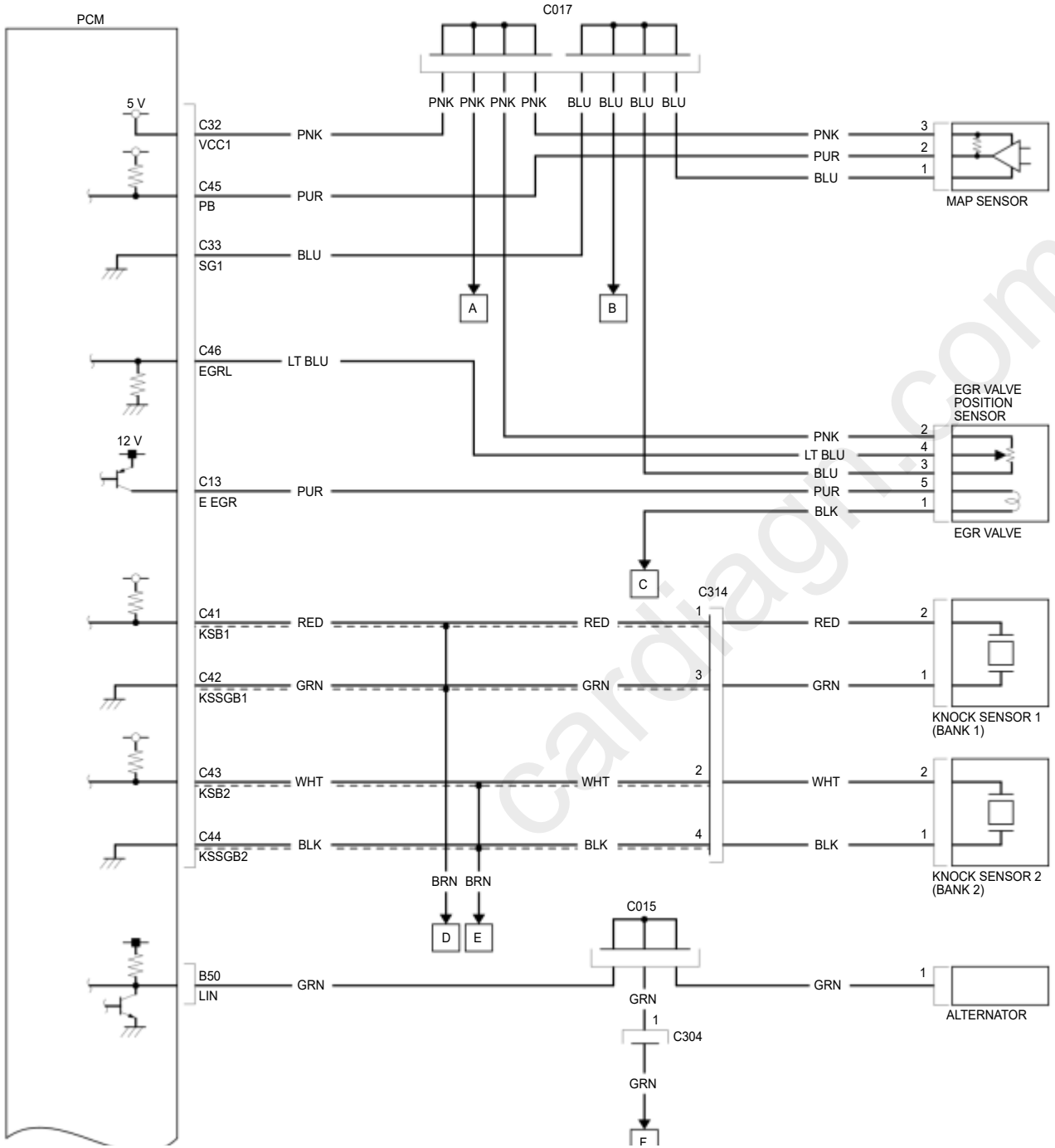
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BC
LT BLU
A7
CABLE REEL
C19
(With heated steering wheel)
8
LIN (METER)
HEATED STEERING WHEEL CONTROL UNIT
BLU
B15
LIN (METER)
BLU
B14
LIN (METER)
CONTROL UNIT
STEERING COMMANDER SWITCH ASSEMBLY
AO
AW
AY
AX
AZ
C102
2
RED
WHT
A1
+B IG MAIN
RED
A2
+B IG MAIN 2
BRN
C2
IG1-B
GRN
C3
IG1 MAIN
ORN
C4
IG2 MAIN
BLU
B3
IG1 COIL+
GRY
B4
IG2 COIL+
BLK
B1
GND
UNDER-DASH SUBRELAY BOX
A27
STS
YEL
C106
14
YEL
B32
STS
BLK
B35
GND
GRY
B16
IG2 COIL+
BLU
B17
IG1 COIL+
LT BLU
C2
F-CAN B_H
GRY
C12
F-CAN B_L
PUR
C6
L LINE
LT BLU
C4
K LINE
KEYLESS ACCESS/ TPMS CONTROL UNIT
To K LINE circuit
To L LINE circuit
To F-CAN circuit


AM
WHT
E23
WHT
M12
UNDER-DASH
FUSE/RELAY BOX
WHT
E9
WHT
K9
JUNCTION BOX 1
5 V
WHT
16
+B BACK UP
C116
A39
SCS
TAN
21
TAN
9
SCS
BLK
4
GND
BLK
5
GND
DATA LINK
CONNECTOR
PUR
6
DIAG-CAN_H
G306
G307
PNK
14
DIAG-CAN_L
PUR
15
L LINE
LT BLU
7
K LINE
To K LINE circuit
To L LINE circuit
A9
F-CAN A_H
WHT
A10
F-CAN A_L
RED
To F-CAN circuit
A11
F-CAN B_H
LT BLU
A12
F-CAN B_L
GRY

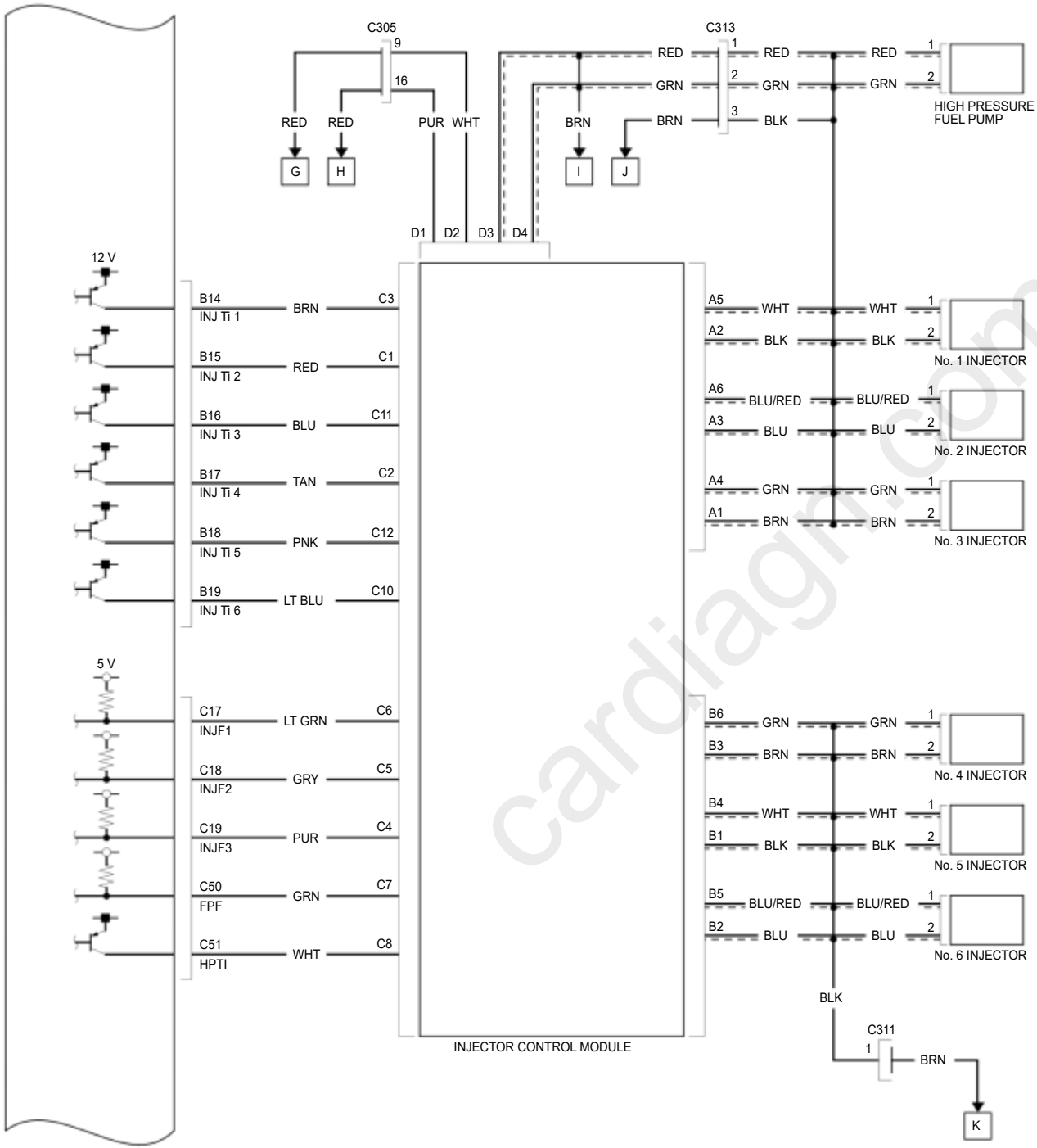
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Fuel and Emissions Systems Circuit Diagram



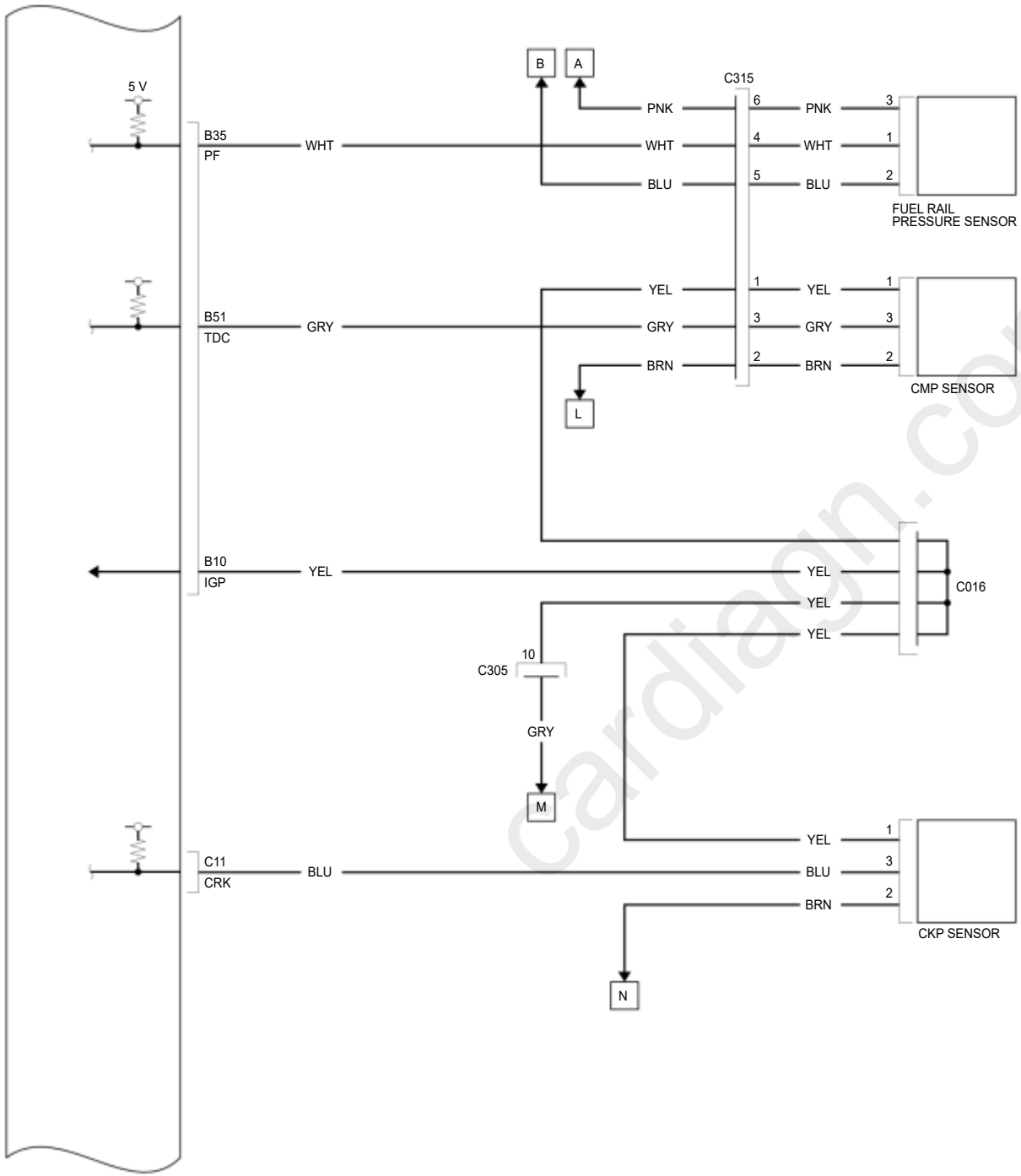


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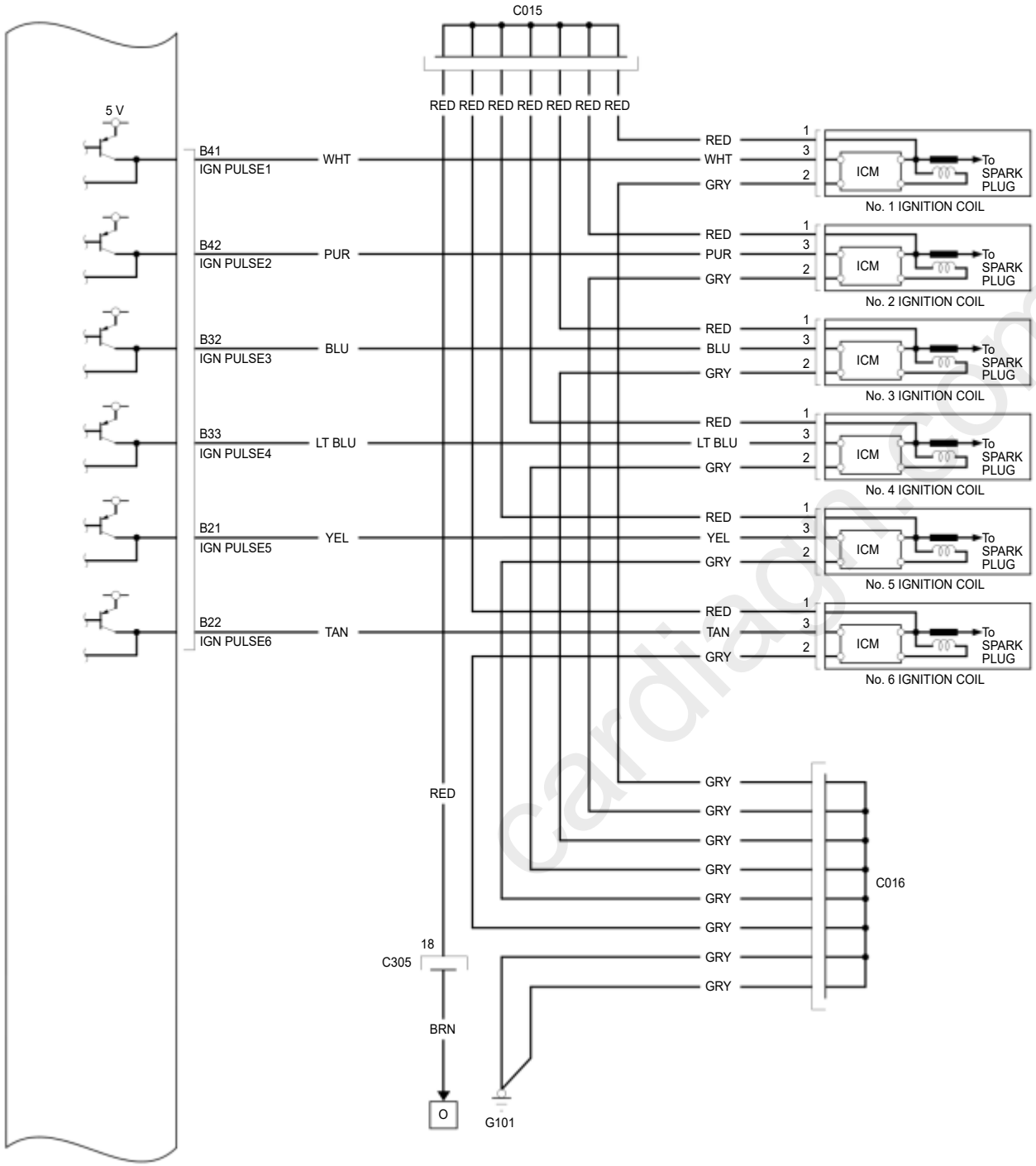
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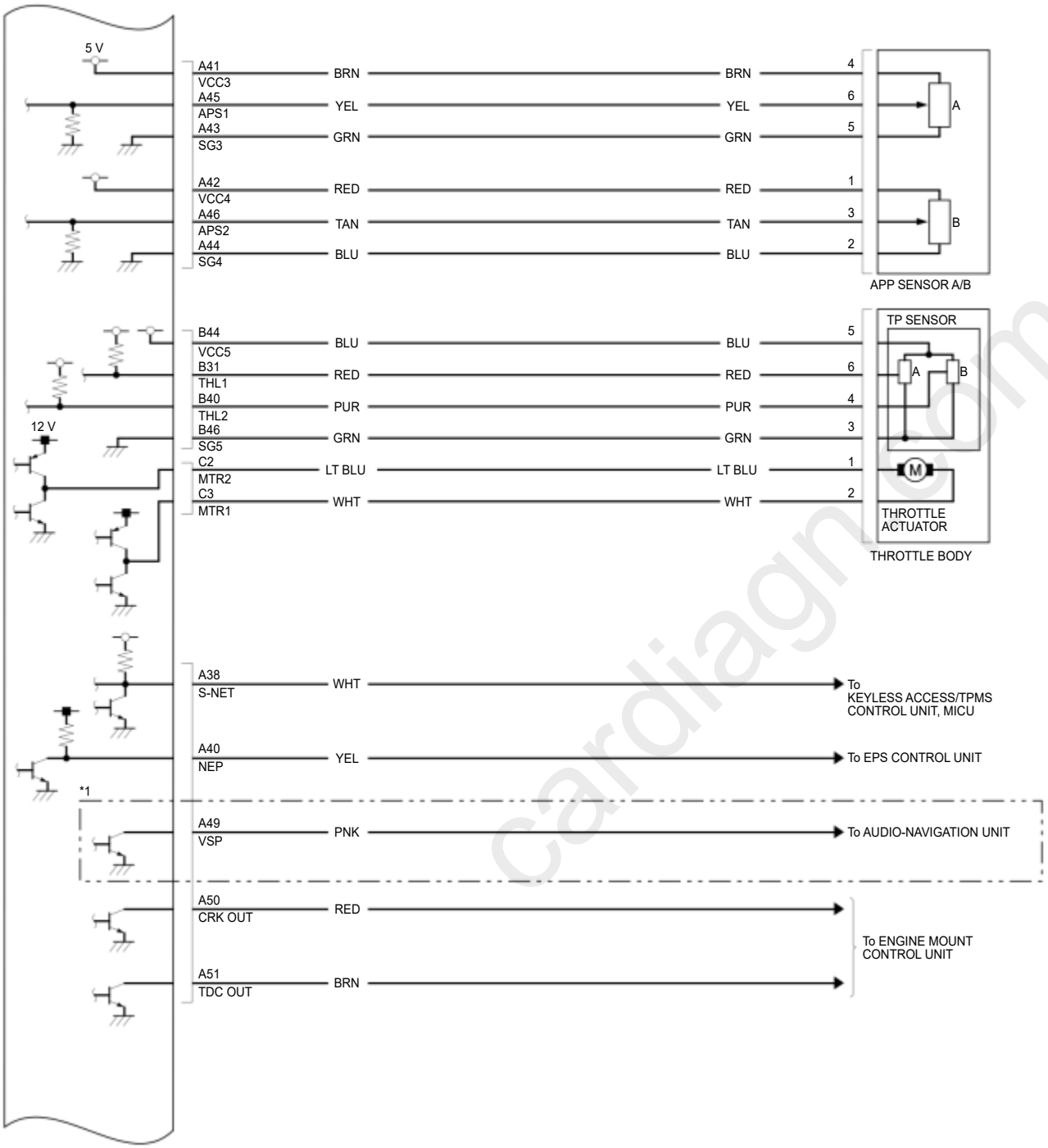


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C015
RED RED RED RED RED RED RED
5 V
B41
IGN PULSE1
WHT
B42
IGN PULSE2
PUR
B32
IGN PULSE3
BLU
B33
IGN PULSE4
LT BLU
B21
IGN PULSE5
YEL
B22
IGN PULSE6
TAN
RED
WHT
GRY
PUR
BLU
LT BLU
YEL
TAN
1
3
2
ICM
To SPARK PLUG
No. 1 IGNITION COIL
No. 2 IGNITION COIL
No. 3 IGNITION COIL
No. 4 IGNITION COIL
No. 5 IGNITION COIL
No. 6 IGNITION COIL
C016
18
C305
BRN
O
G101

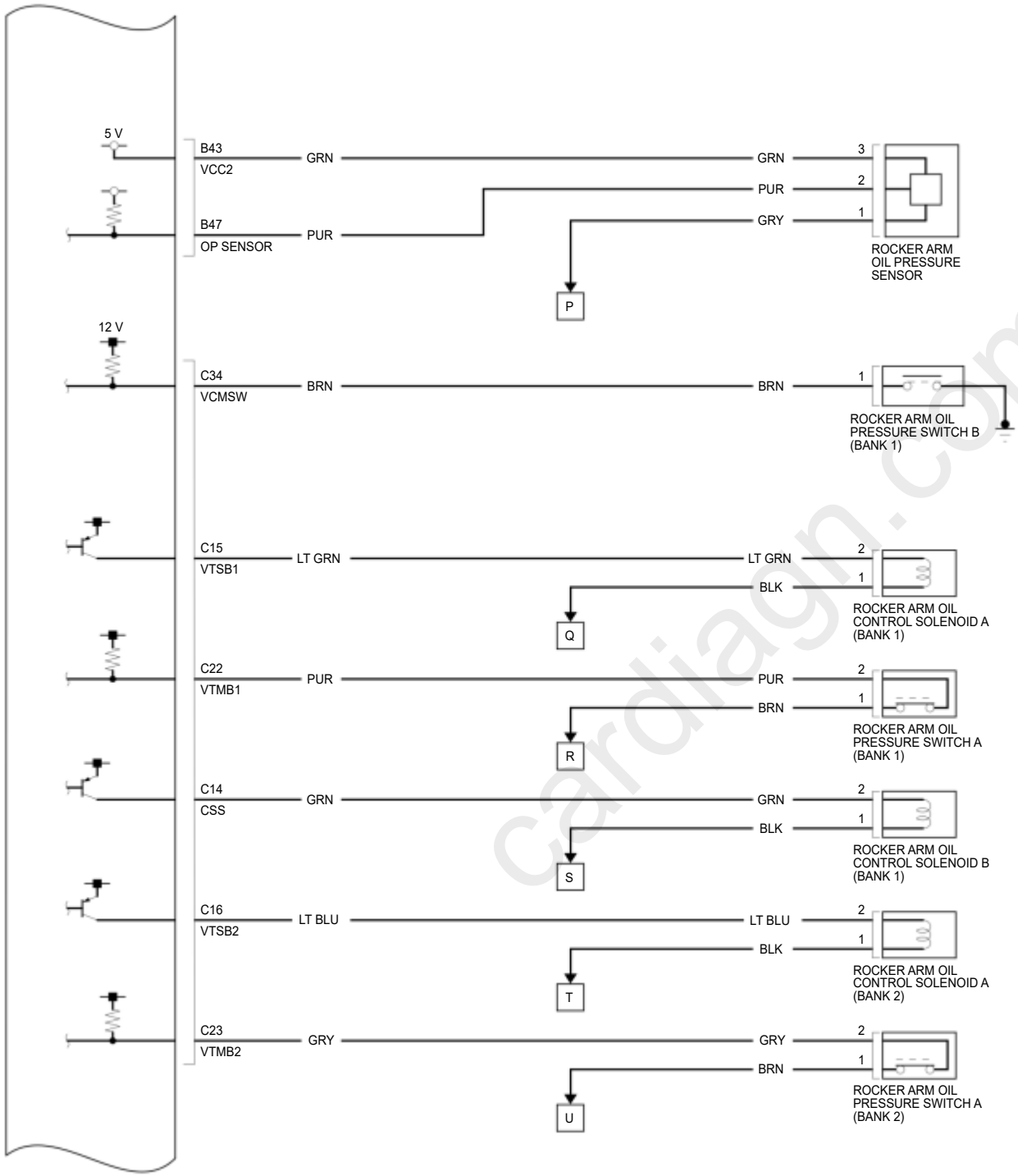
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*1: With navigation

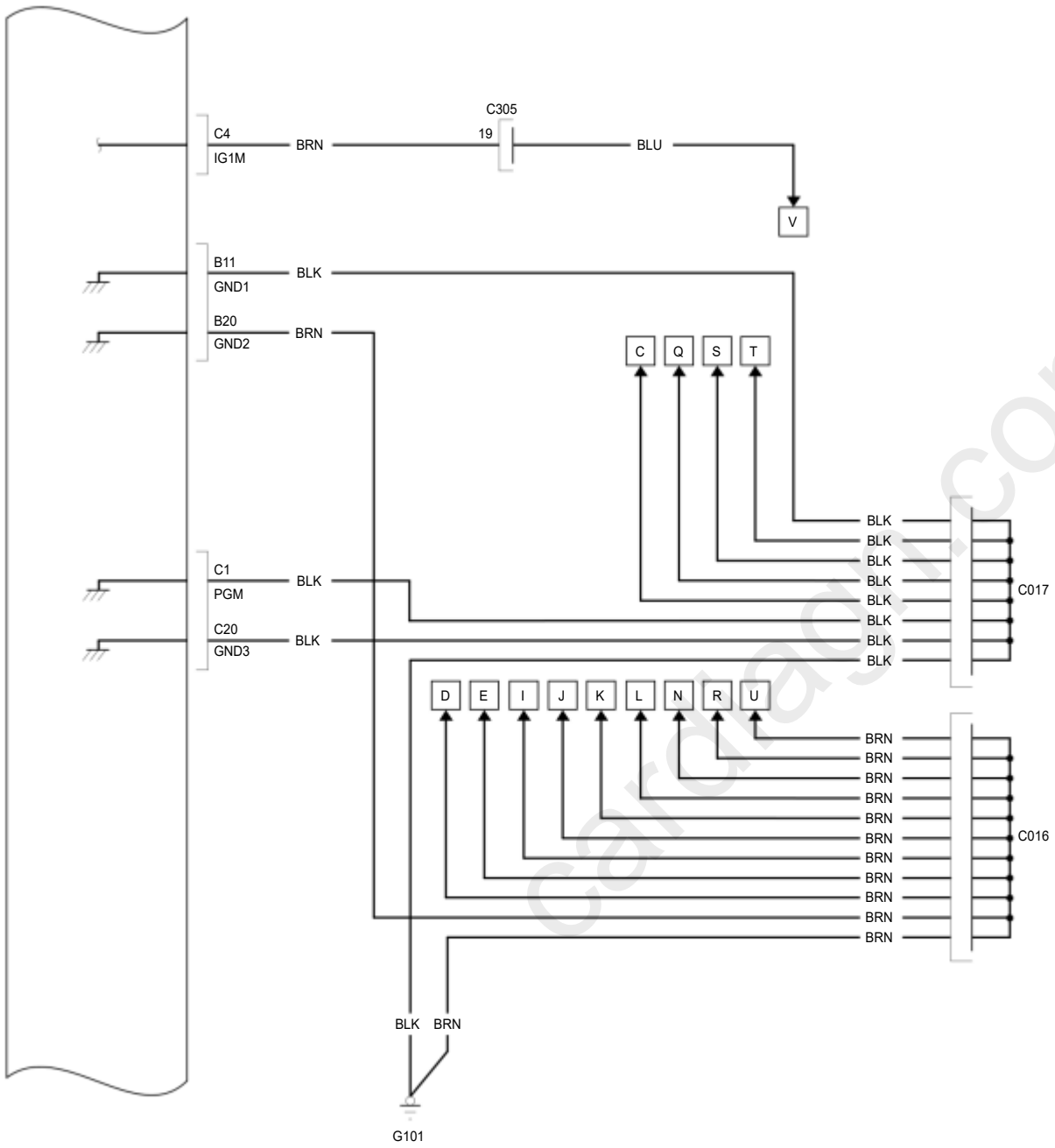
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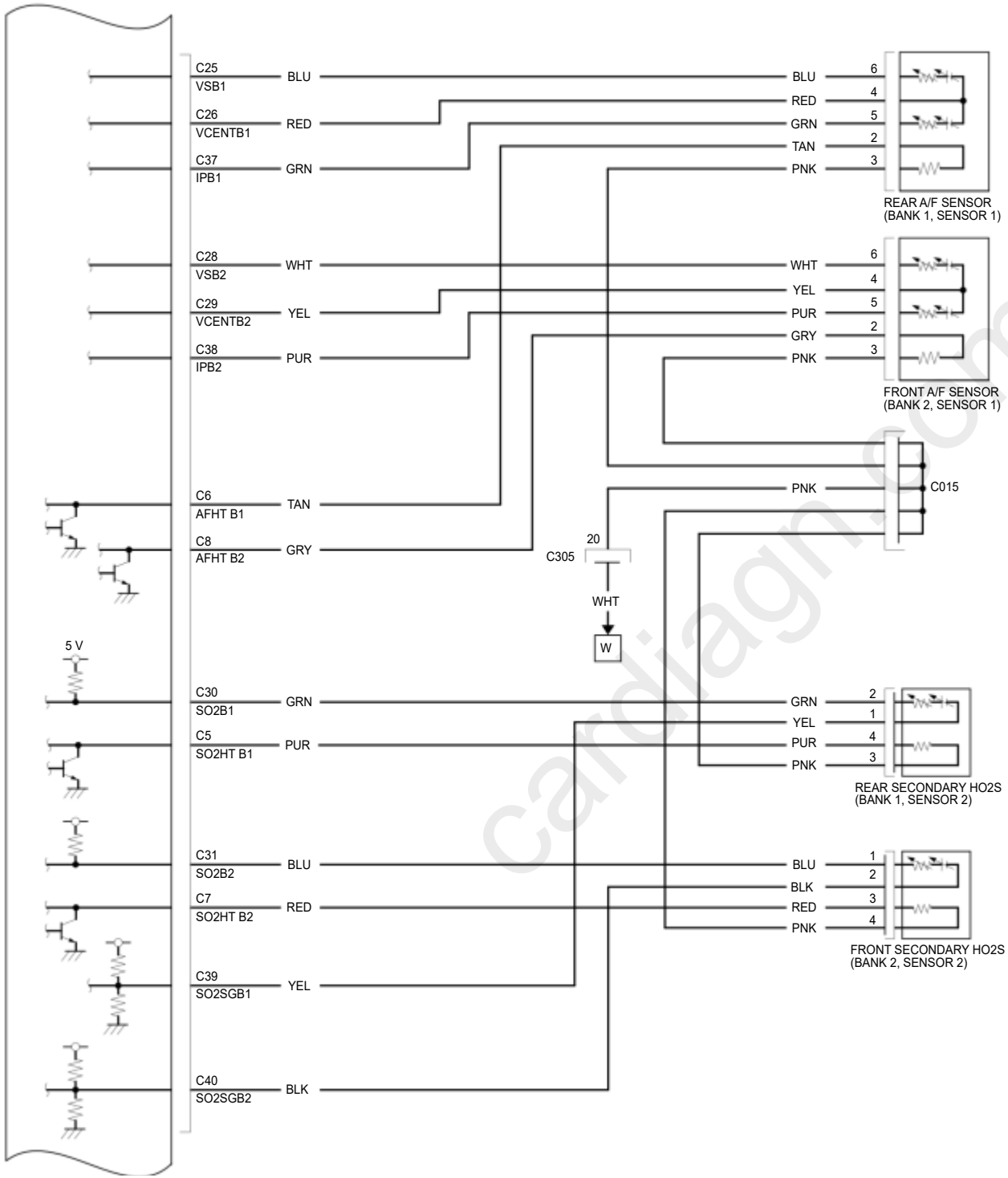


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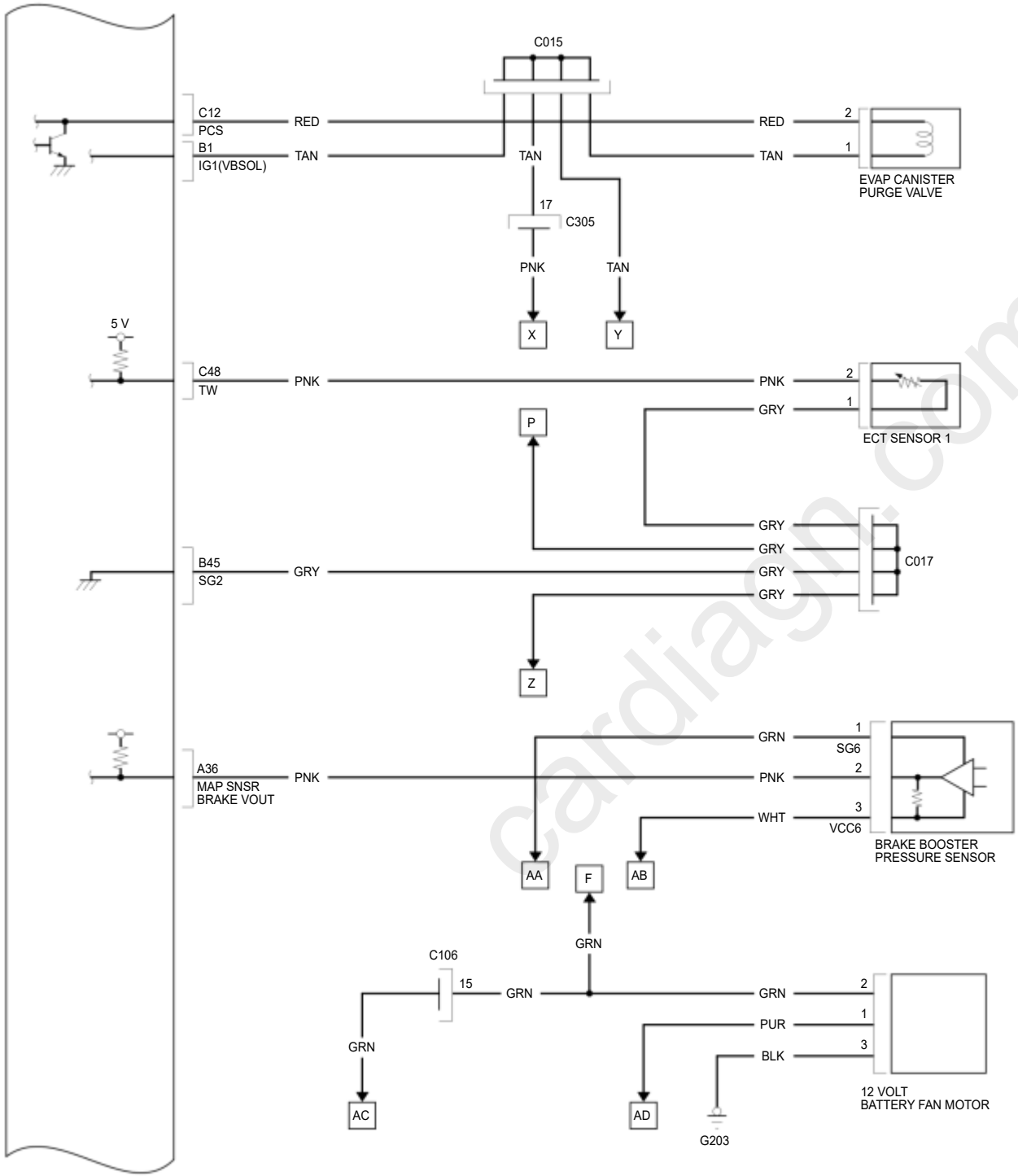

C4
IG1M
BRN
C305
19
BLU
V
B11
GND1
BLK
B20
GND2
BRN
C
Q
S
T
BLK
BLK
BLK
BLK
BLK
BLK
BLK
BLK
C017
C1
PGM
BLK
C20
GND3
BLK
D
E
I
J
K
L
N
R
U
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
C016
BLK
BRN
G101

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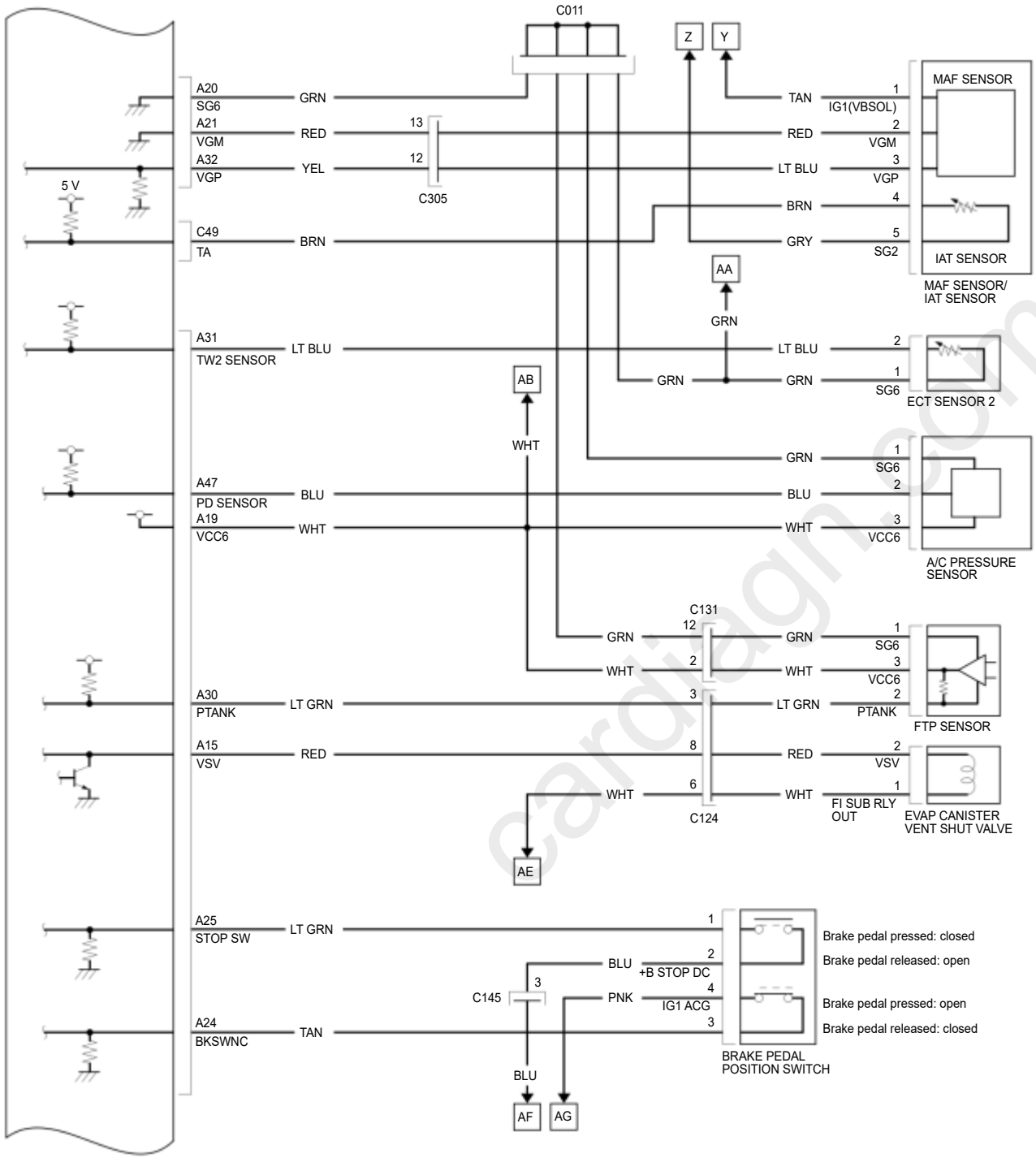


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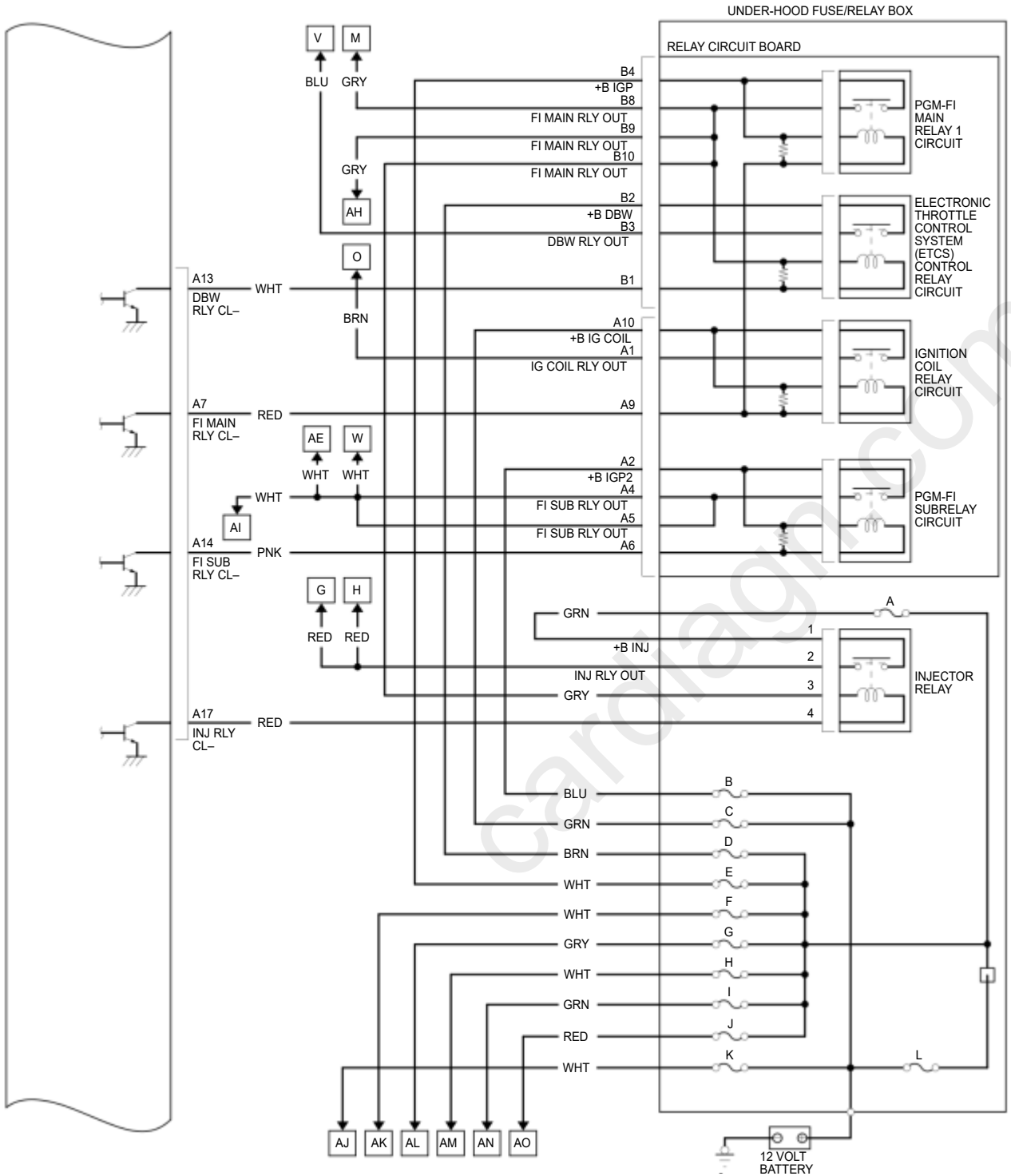

C015
C12
PCS
B1
IG1(VBSOL)
RED
TAN
TAN
RED
TAN
2
1
EVAP CANISTER
PURGE VALVE
17
C305
PNK
TAN
X
Y
5 V
C48
TW
PNK
PNK
GRY
2
1
ECT SENSOR 1
P
GRY
GRY
GRY
GRY
C017
B45
SG2
GRY
Z
A36
MAP SNSR
BRAKE VOUT
PNK
GRN
PNK
WHT
1
SG6
2
3
VCC6
BRAKE BOOSTER
PRESSURE SENSOR
AA
F
AB
GRN
C106
15
GRN
GRN
GRN
AC
GRN
PUR
BLK
2
1
3
12 VOLT
BATTERY FAN MOTOR
AD
G203

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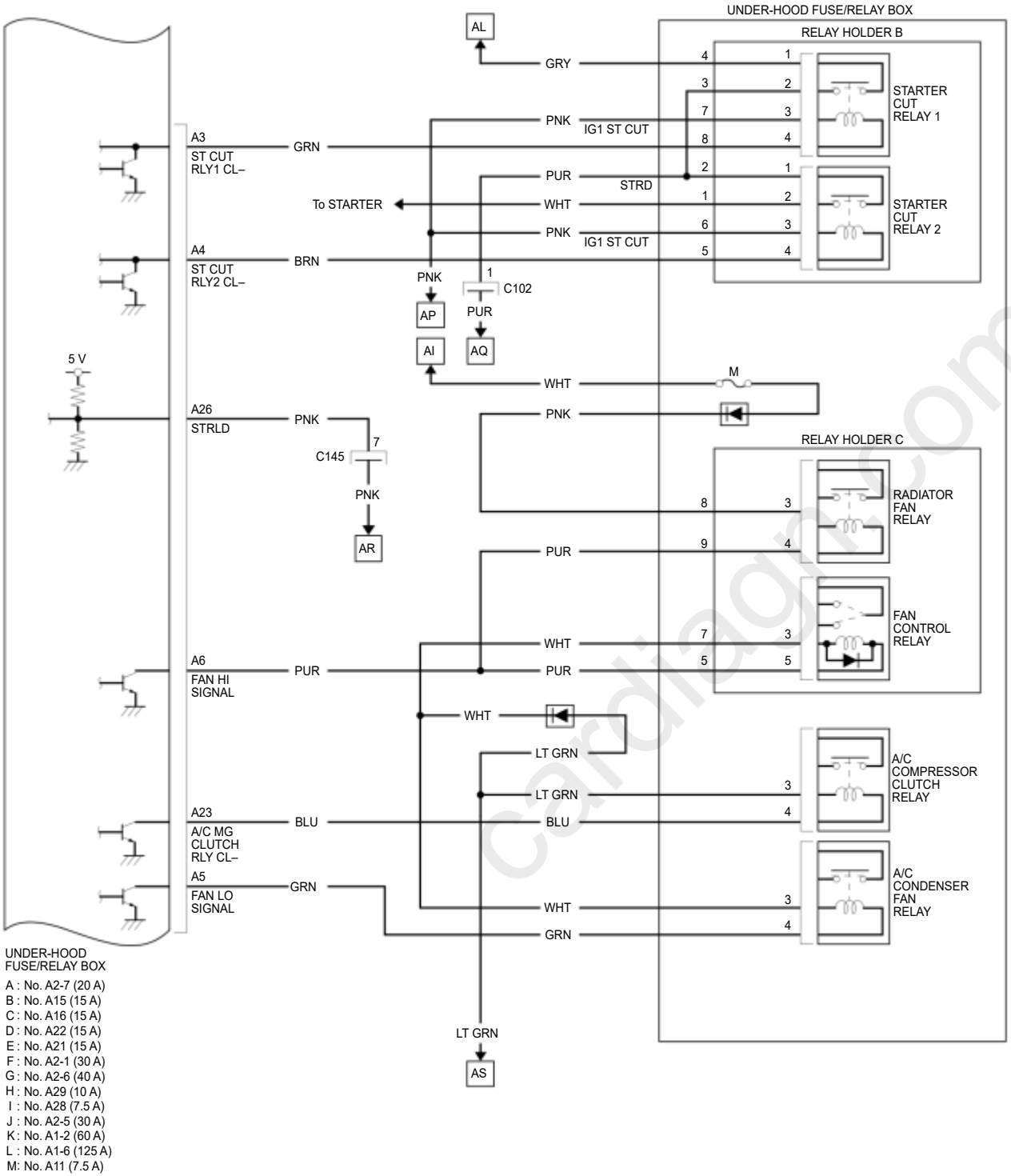


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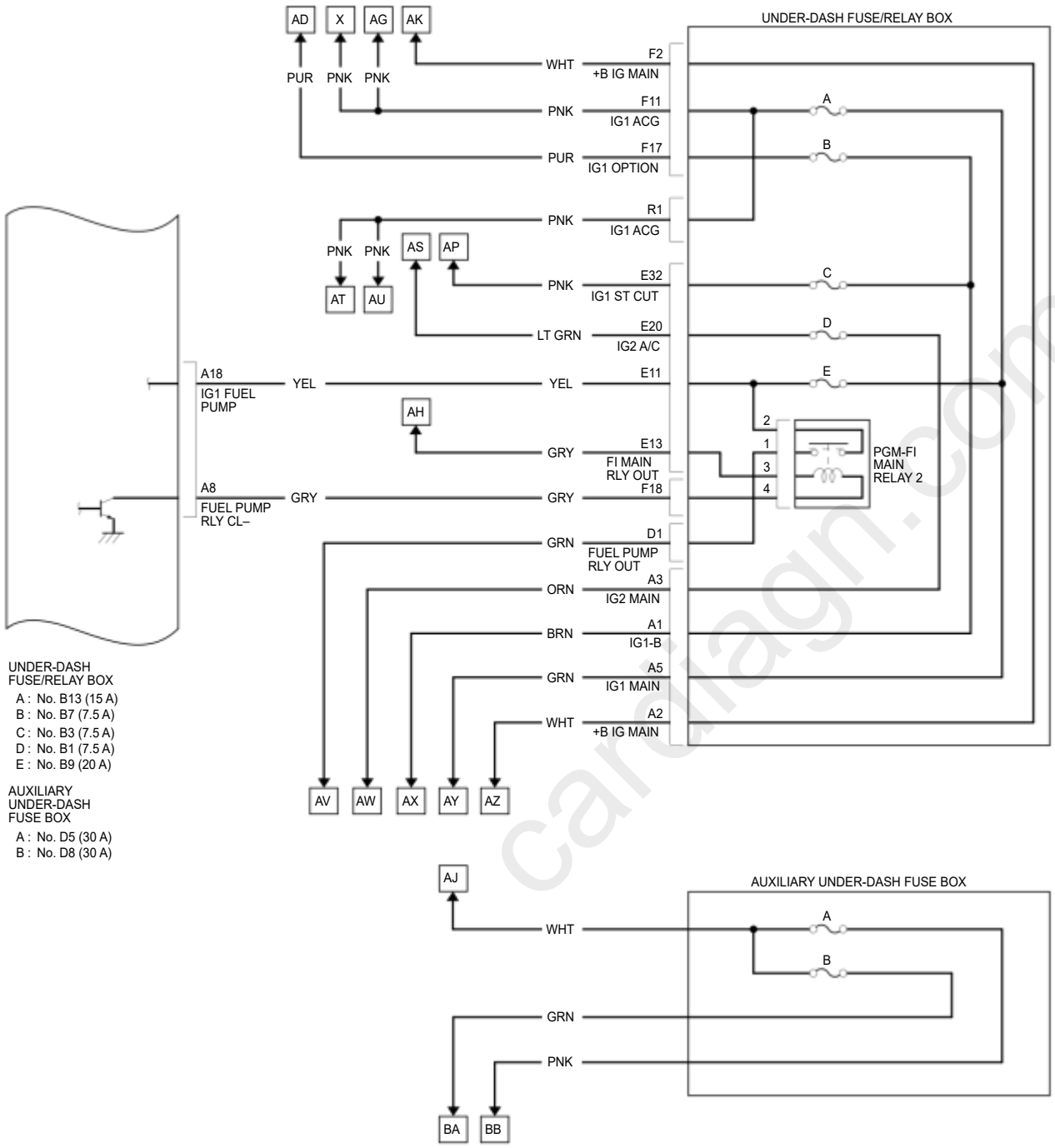
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UNDER-HOOD FUSE/RELAY BOX
RELAY CIRCUIT BOARD
V
M
BLU
GRY
B4
+B IGP
B8
FI MAIN RLY OUT
B9
FI MAIN RLY OUT
B10
FI MAIN RLY OUT
PGM-FI MAIN RELAY 1 CIRCUIT
GRY
AH
B2
+B DBW
B3
DBW RLY OUT
ELECTRONIC THROTTLE CONTROL SYSTEM (ETCS) CONTROL RELAY CIRCUIT
O
A13
DBW RLY CL–
WHT
B1
BRN
A10
+B IG COIL
A1
IG COIL RLY OUT
IGNITION COIL RELAY CIRCUIT
A7
FI MAIN RLY CL–
RED
A9
AE
W
WHT
WHT
A2
+B IGP2
A4
FI SUB RLY OUT
A5
FI SUB RLY OUT
A6
PGM-FI SUBRELAY CIRCUIT
WHT
AI
A14
FI SUB RLY CL–
PNK
G
H
RED
RED
GRN
A
1
+B INJ
2
INJ RLY OUT
3
GRY
4
INJECTOR RELAY
A17
INJ RLY CL–
RED
BLU
B
GRN
C
BRN
D
WHT
E
WHT
F
GRY
G
WHT
H
GRN
I
RED
J
WHT
K
L
AJ
AK
AL
AM
AN
AO
12 VOLT BATTERY

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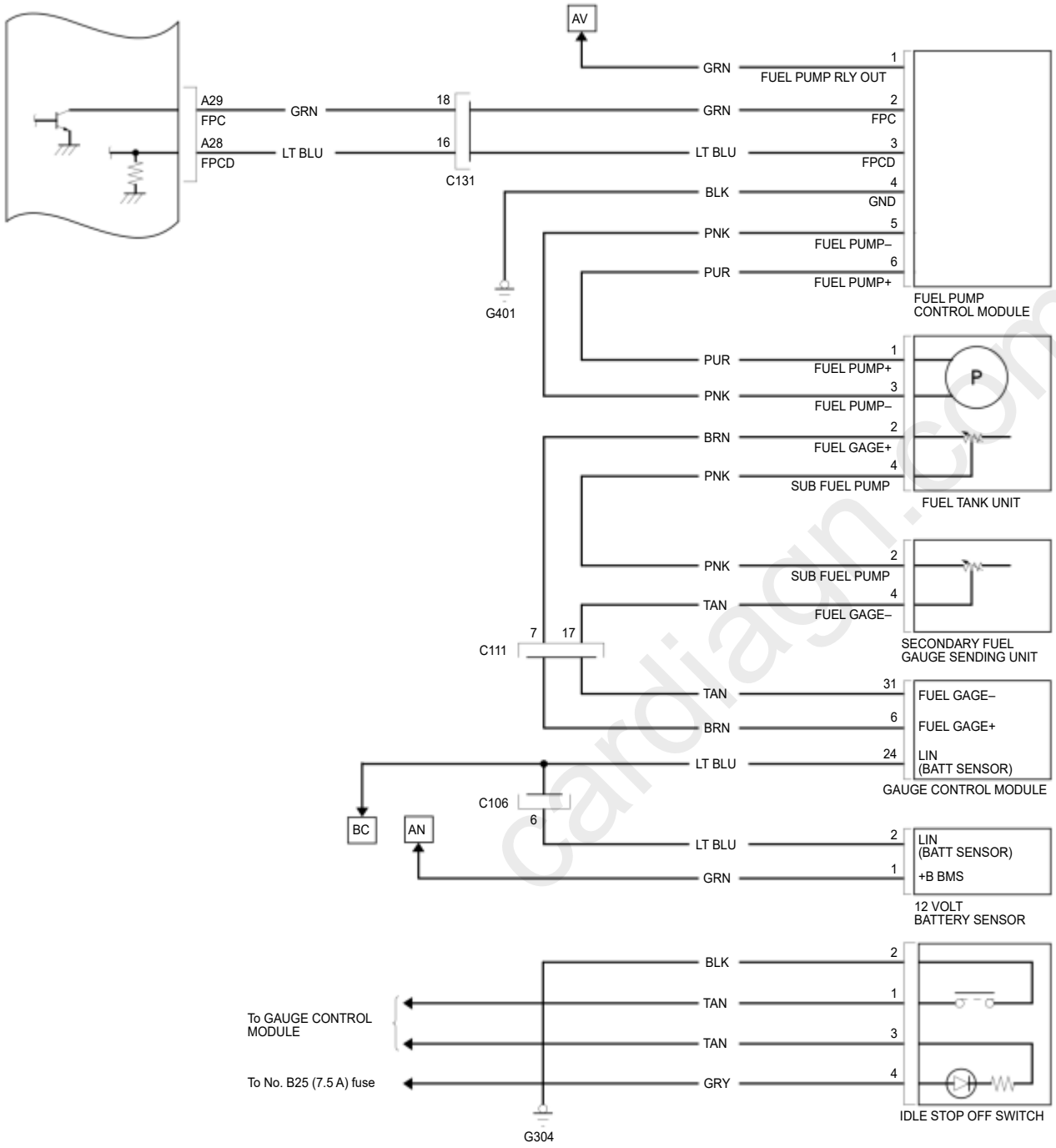

UNDER-HOOD FUSE/RELAY BOX
RELAY HOLDER B
AL
GRY
4
1
3
2
7
3
8
4
PNK
IG1 ST CUT
STARTER CUT RELAY 1
A3
ST CUT RLY1 CL–
GRN
PUR
STRD
2
1
To STARTER
WHT
1
2
PNK
IG1 ST CUT
6
3
STARTER CUT RELAY 2
A4
ST CUT RLY2 CL–
BRN
5
4
PNK
1
C102
AP
PUR
AI
AQ
5 V
WHT
M
A26
STRLD
PNK
PNK
C145
7
PNK
AR
RELAY HOLDER C
8
3
RADIATOR FAN RELAY
PUR
9
4
FAN CONTROL RELAY
WHT
7
3
A6
FAN HI SIGNAL
PUR
PUR
5
5
WHT
LT GRN
A/C COMPRESSOR CLUTCH RELAY
LT GRN
3
4
A23
A/C MG CLUTCH RLY CL–
BLU
BLU
A5
FAN LO SIGNAL
GRN
A/C CONDENSER FAN RELAY
WHT
3
GRN
4
LT GRN
AS
UNDER-HOOD FUSE/RELAY BOX
A : No. A2-7 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A2-5 (30 A)
K : No. A1-2 (60 A)
L : No. A1-6 (125 A)
M: No. A11 (7.5 A)

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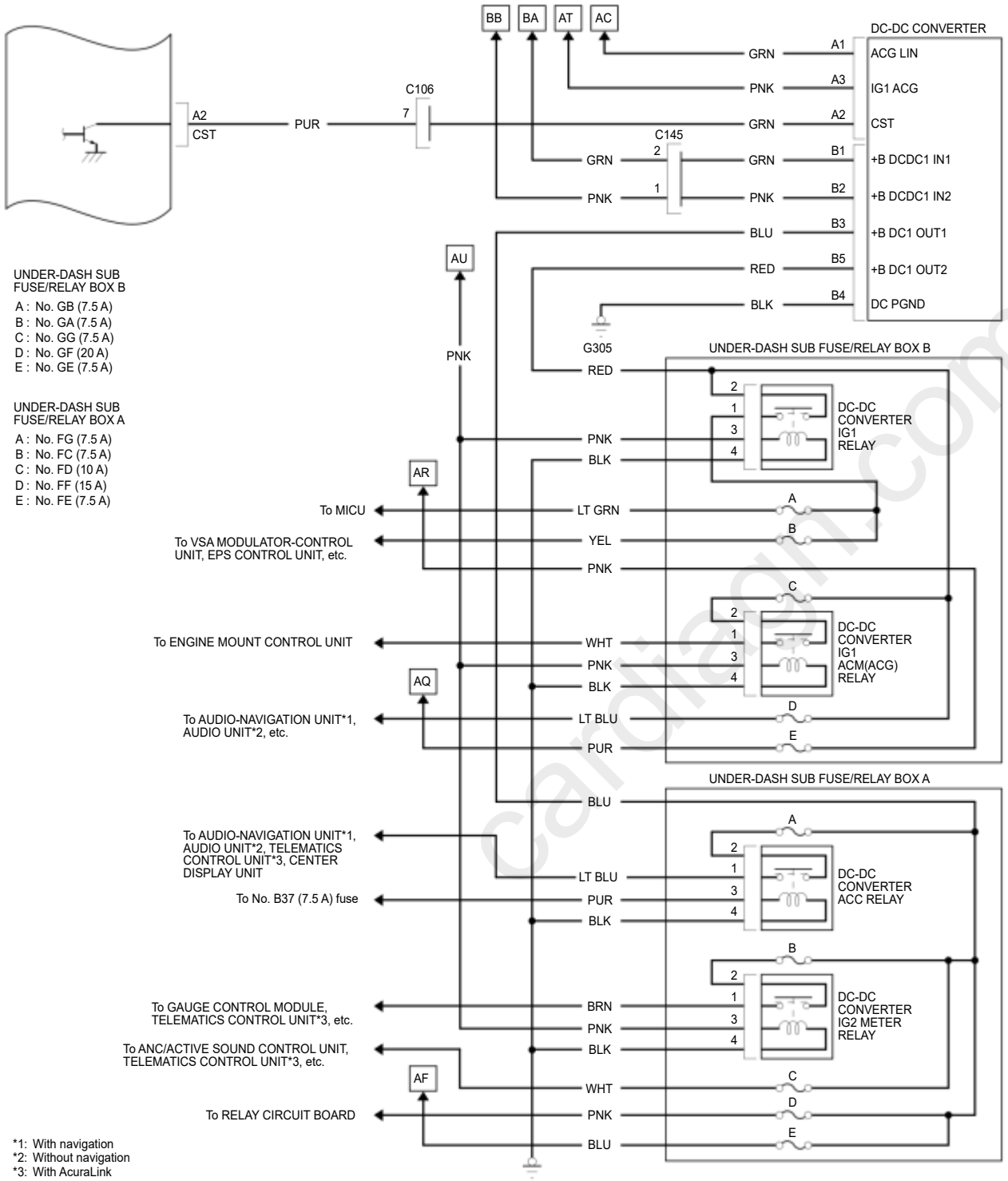
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UNDER-DASH SUB FUSE/RELAY BOX B

A : No. GB (7.5 A)
B : No. GA (7.5 A)
C : No. GG (7.5 A)
D : No. GF (20 A)
E : No. GE (7.5 A)

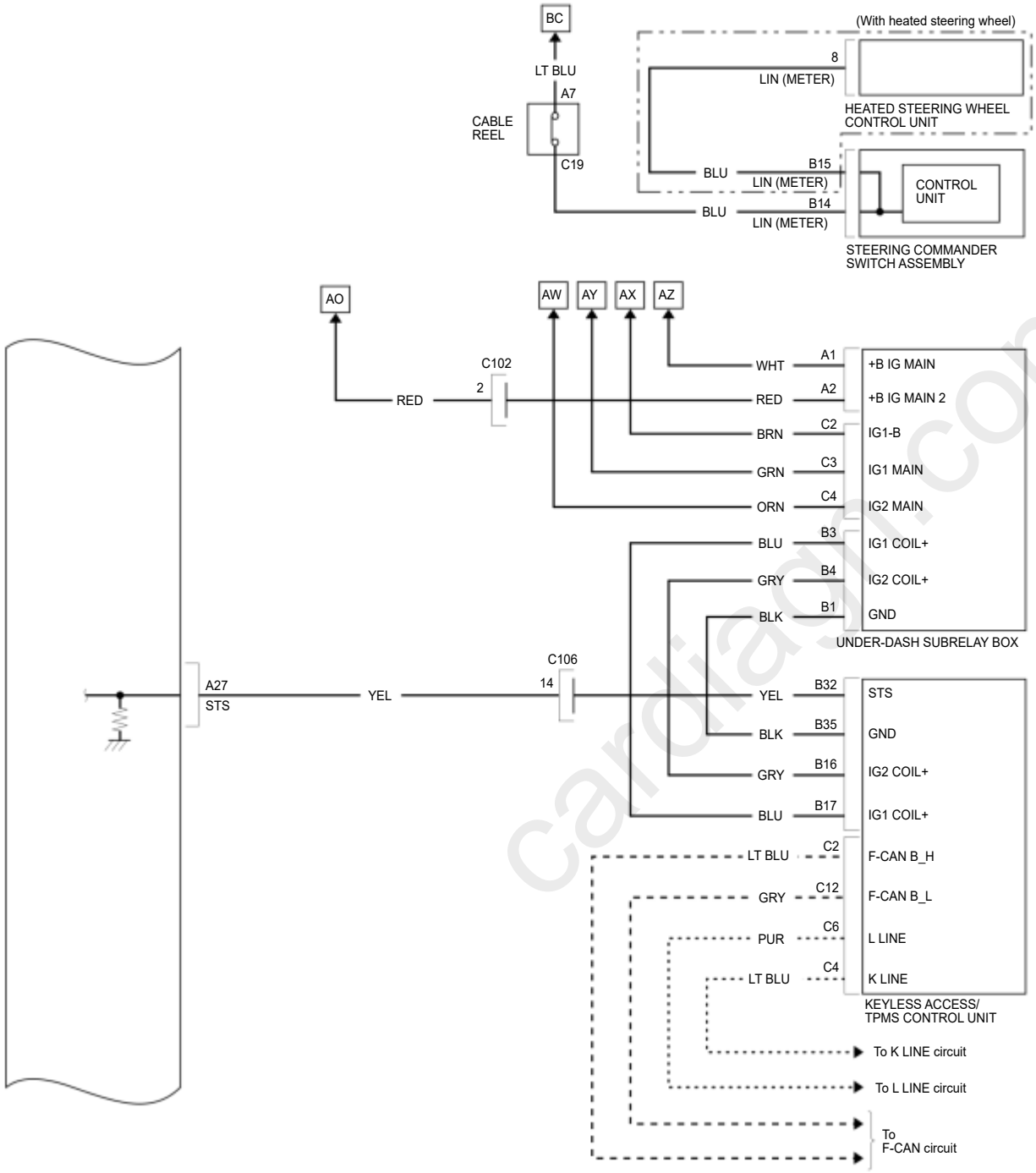
UNDER-DASH SUB FUSE/RELAY BOX A

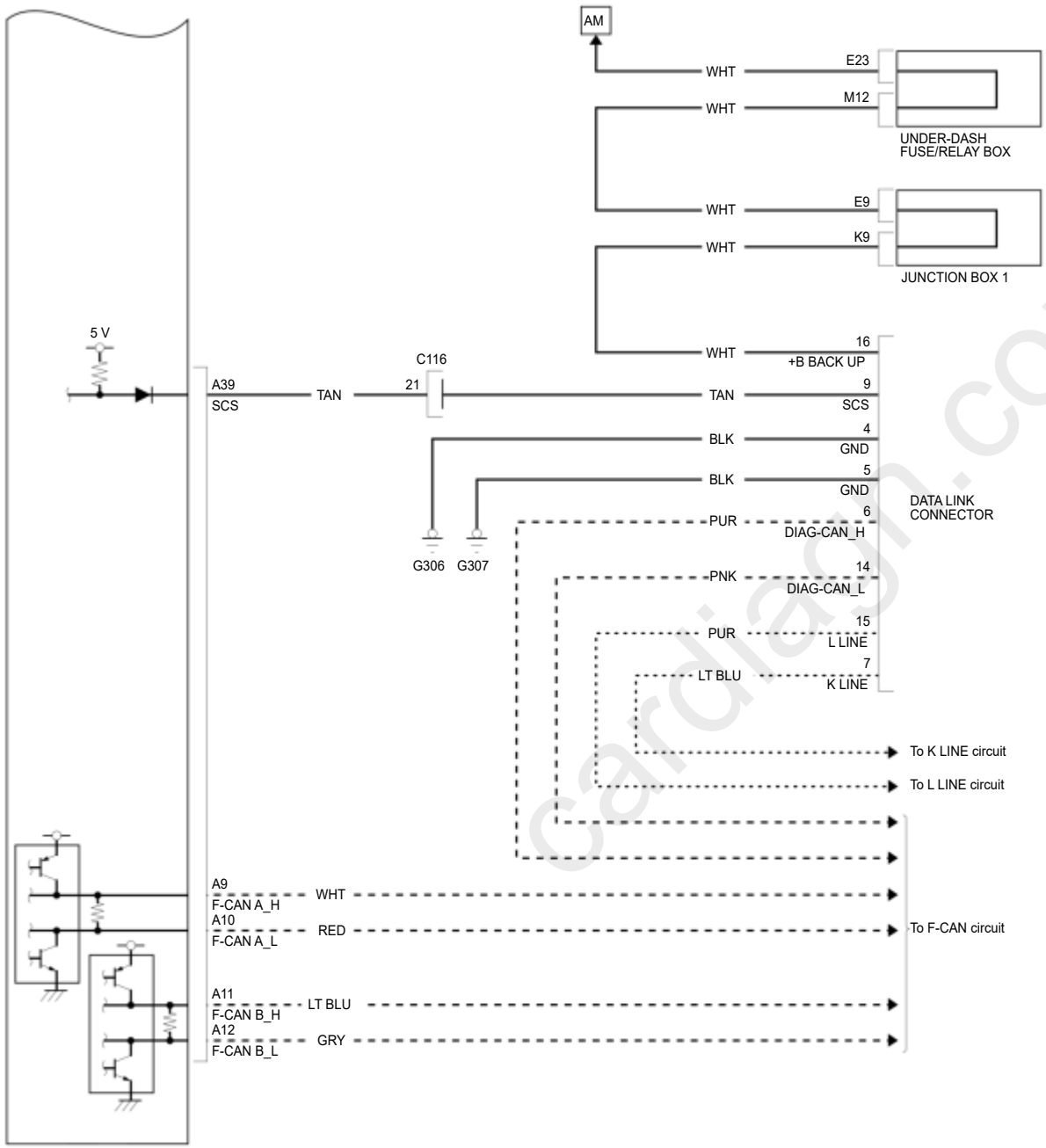
A : No. FG (7.5 A)
B : No. FC (7.5 A)
C : No. FD (10 A)
D : No. FF (15 A)
E : No. FE (7.5 A)

*1: With navigation
*2: Without navigation
*3: With AcuraLink

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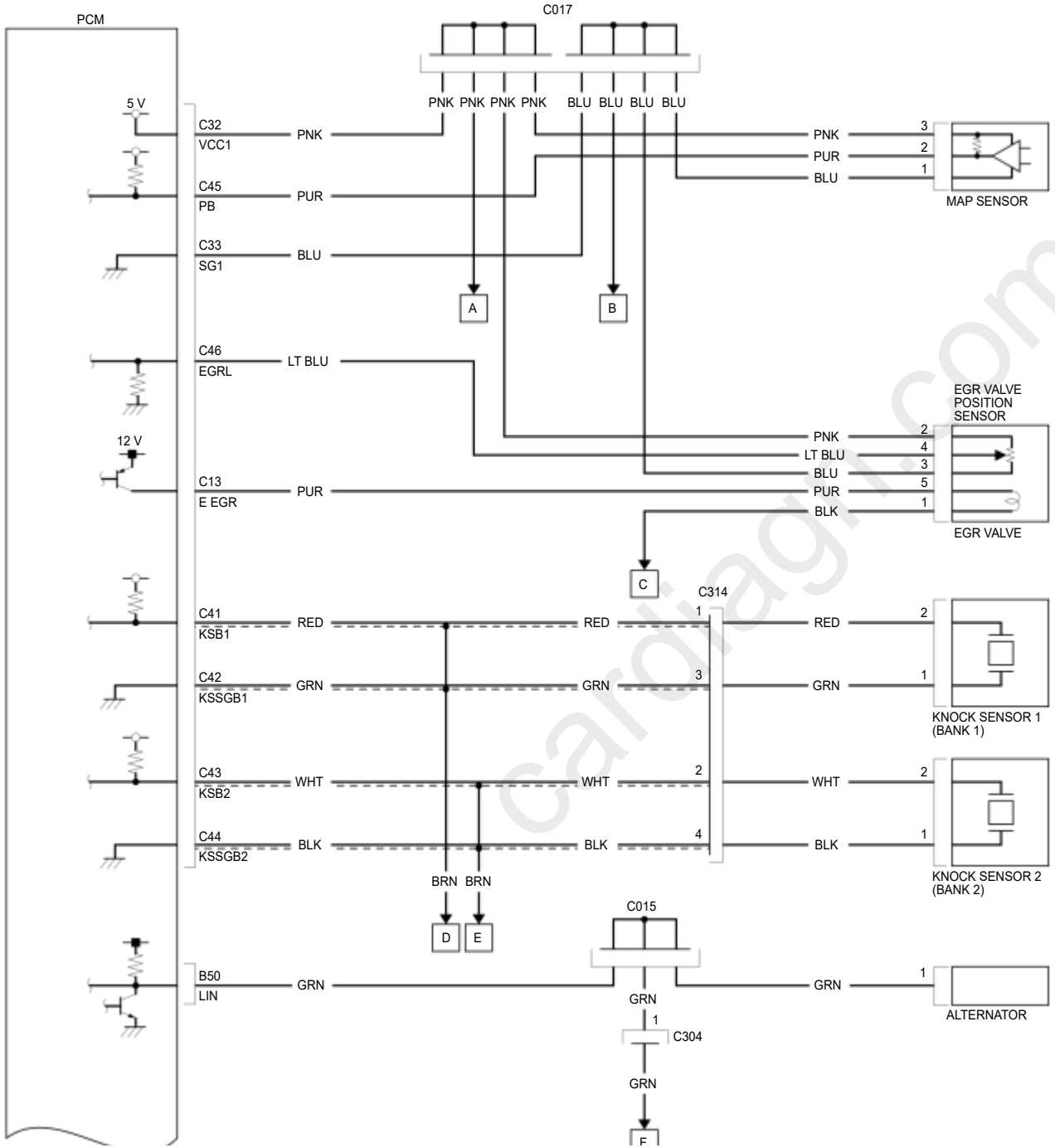
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BC
LT BLU
A7
CABLE REEL
C19
(With heated steering wheel)
8
LIN (METER)
HEATED STEERING WHEEL CONTROL UNIT
BLU
B15
LIN (METER)
BLU
B14
LIN (METER)
CONTROL UNIT
STEERING COMMANDER SWITCH ASSEMBLY
AO
AW
AY
AX
AZ
C102
2
RED
WHT
A1
+B IG MAIN
RED
A2
+B IG MAIN 2
BRN
C2
IG1-B
GRN
C3
IG1 MAIN
ORN
C4
IG2 MAIN
BLU
B3
IG1 COIL+
GRY
B4
IG2 COIL+
BLK
B1
GND
UNDER-DASH SUBRELAY BOX
A27
STS
YEL
C106
14
YEL
B32
STS
BLK
B35
GND
GRY
B16
IG2 COIL+
BLU
B17
IG1 COIL+
LT BLU
C2
F-CAN B_H
GRY
C12
F-CAN B_L
PUR
C6
L LINE
LT BLU
C4
K LINE
KEYLESS ACCESS/ TPMS CONTROL UNIT
To K LINE circuit
To L LINE circuit
To F-CAN circuit


AM
WHT
E23
WHT
M12
UNDER-DASH
FUSE/RELAY BOX
WHT
E9
WHT
K9
JUNCTION BOX 1
5 V
WHT
16
+B BACK UP
C116
A39
SCS
TAN
21
TAN
9
SCS
BLK
4
GND
BLK
5
GND
DATA LINK
CONNECTOR
PUR
6
DIAG-CAN_H
G306
G307
PNK
14
DIAG-CAN_L
PUR
15
L LINE
LT BLU
7
K LINE
To K LINE circuit
To L LINE circuit
A9
F-CAN A_H
WHT
A10
F-CAN A_L
RED
To F-CAN circuit
A11
F-CAN B_H
LT BLU
A12
F-CAN B_L
GRY

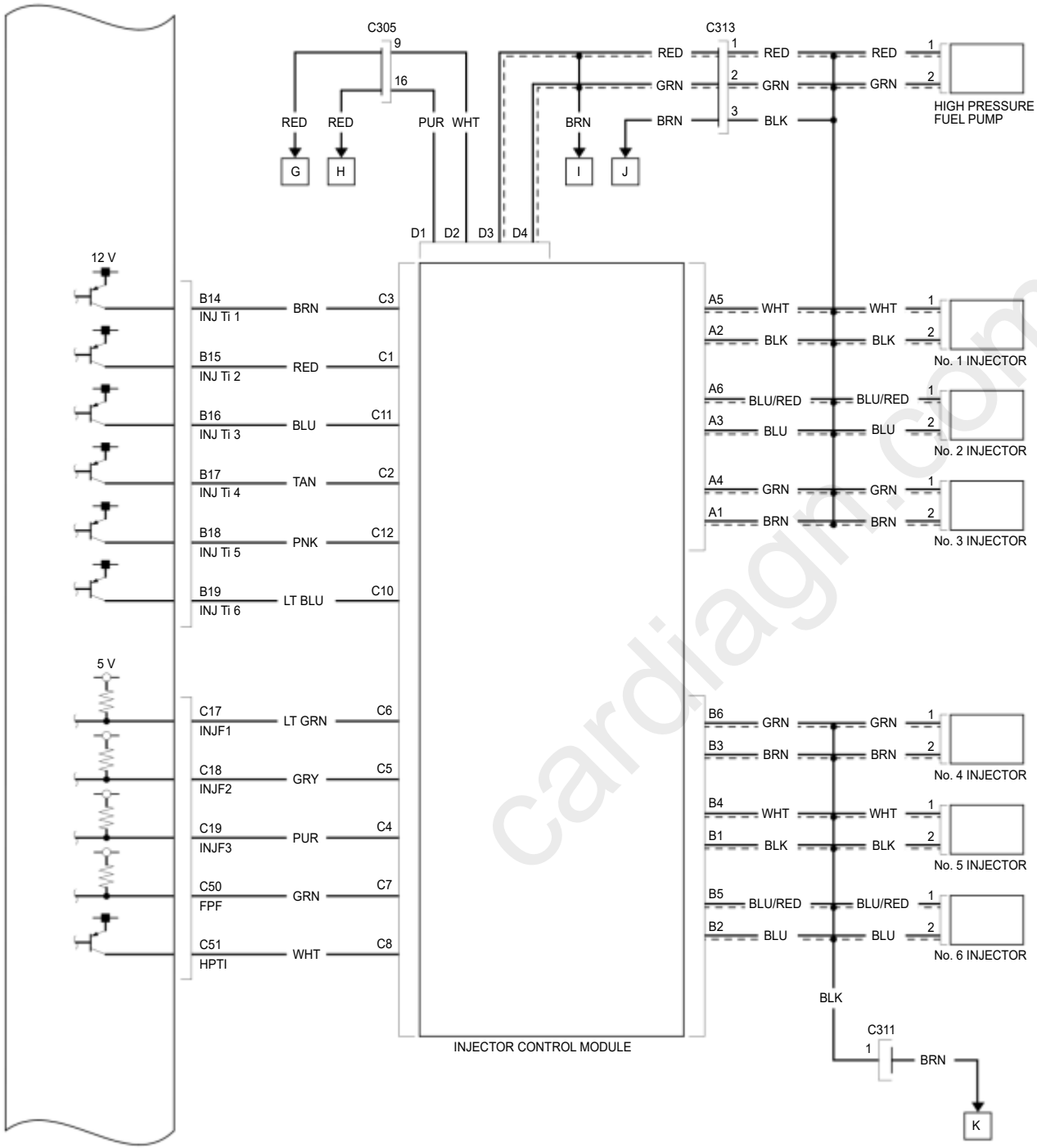
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Fuel and Emissions Systems Circuit Diagram



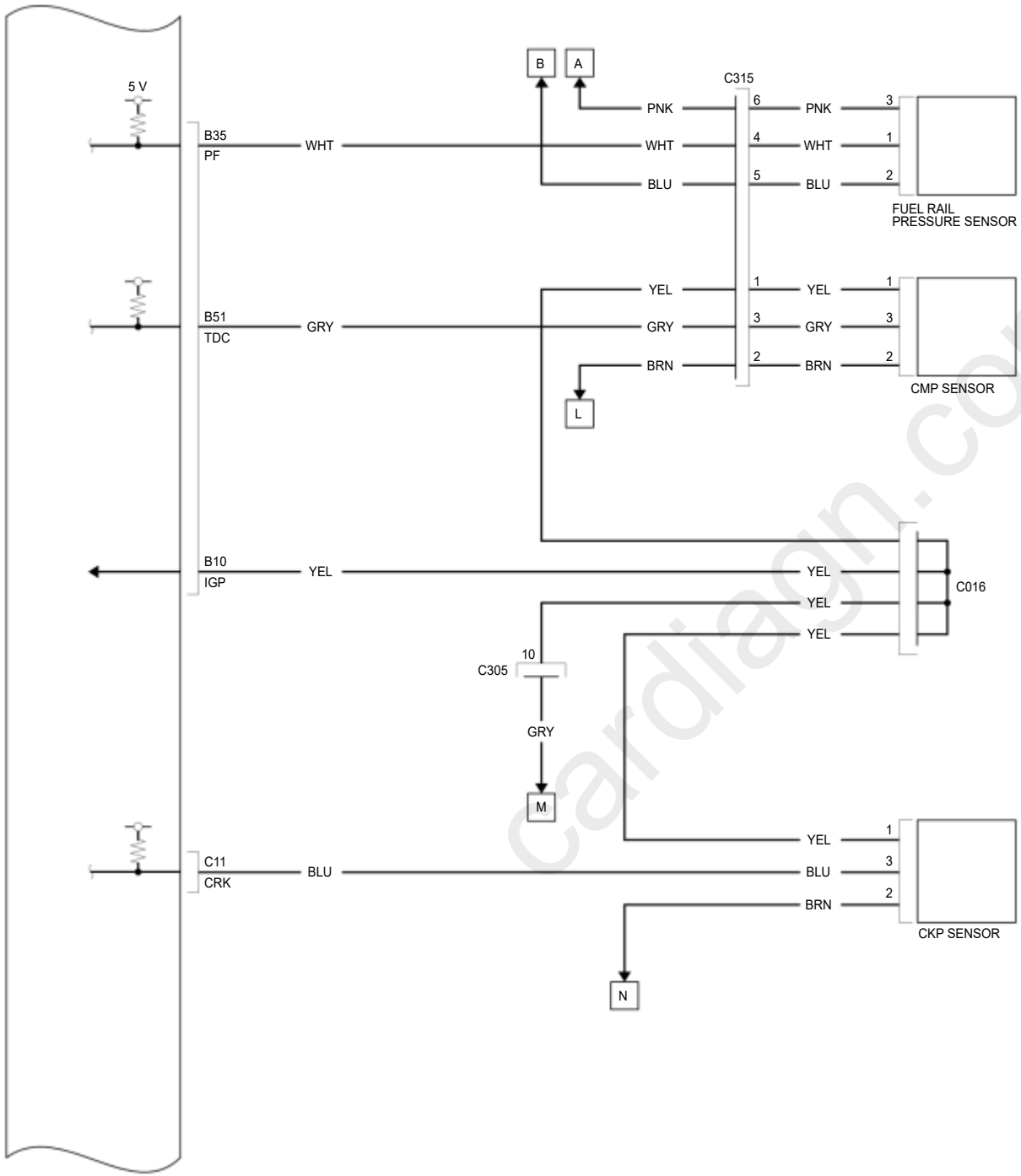


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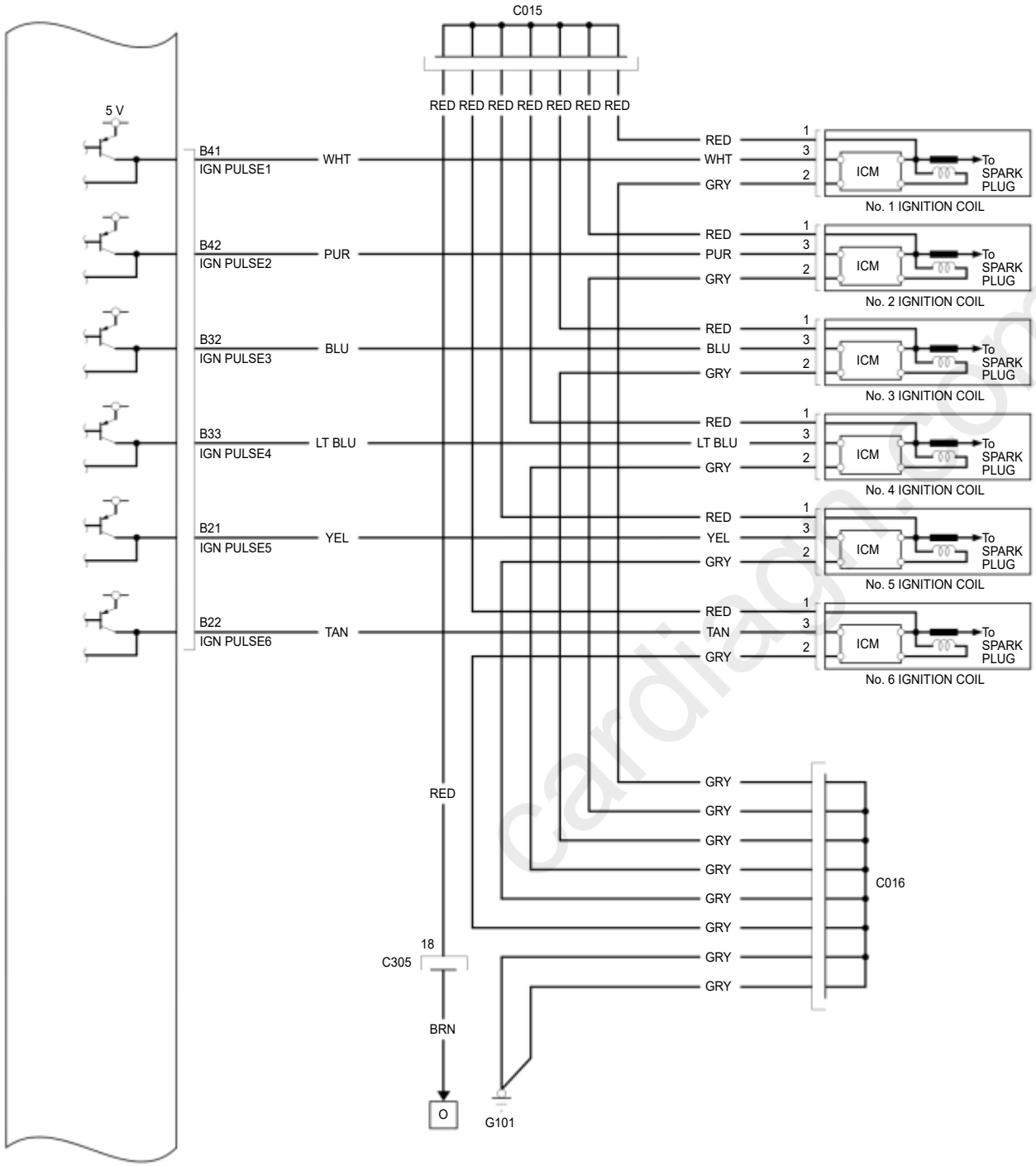
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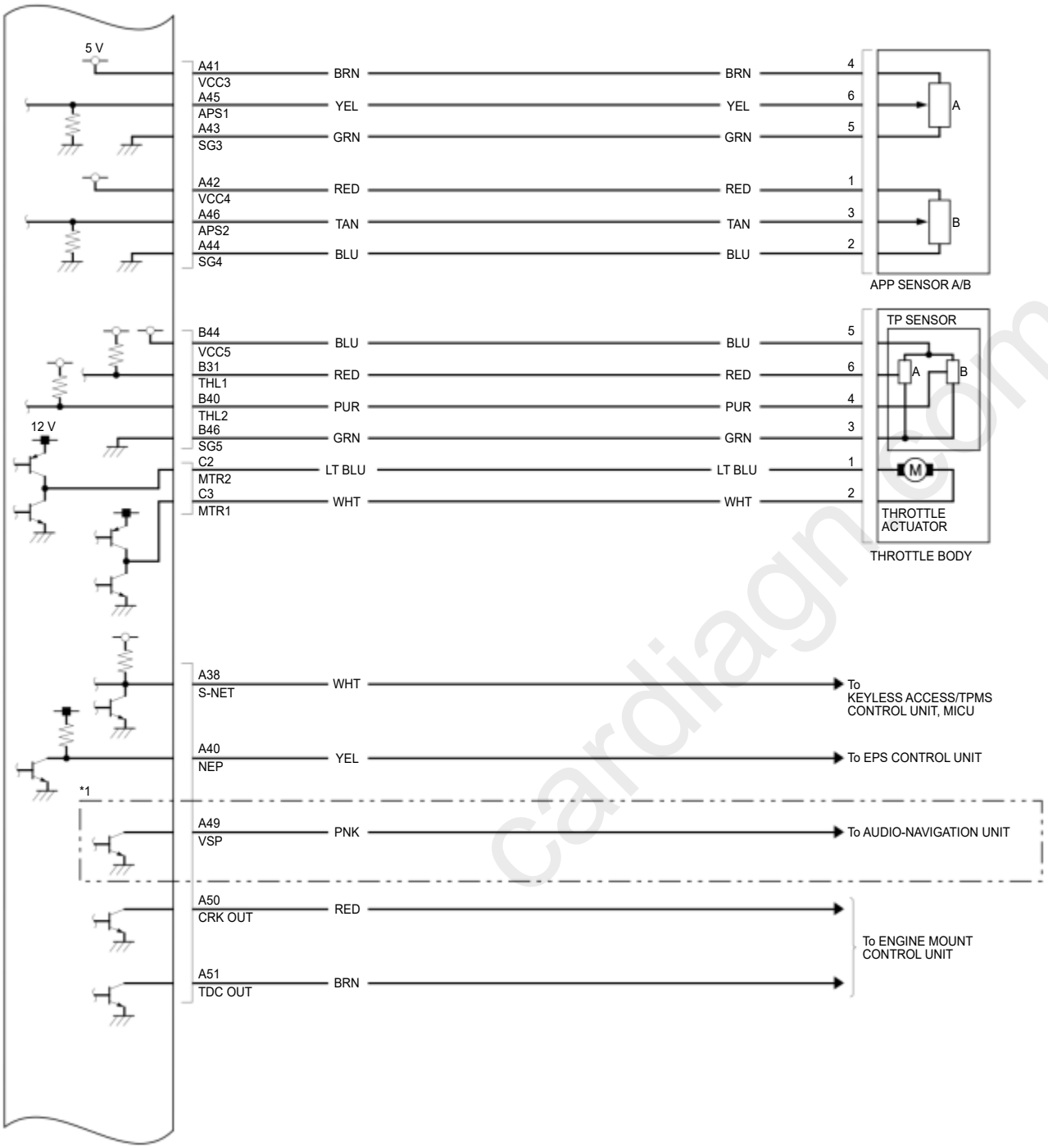


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C015
RED RED RED RED RED RED RED
5 V
B41
IGN PULSE1
WHT
B42
IGN PULSE2
PUR
B32
IGN PULSE3
BLU
B33
IGN PULSE4
LT BLU
B21
IGN PULSE5
YEL
B22
IGN PULSE6
TAN
RED
WHT
GRY
PUR
BLU
LT BLU
YEL
TAN
1
3
2
ICM
To SPARK PLUG
No. 1 IGNITION COIL
No. 2 IGNITION COIL
No. 3 IGNITION COIL
No. 4 IGNITION COIL
No. 5 IGNITION COIL
No. 6 IGNITION COIL
C016
18
C305
BRN
O
G101

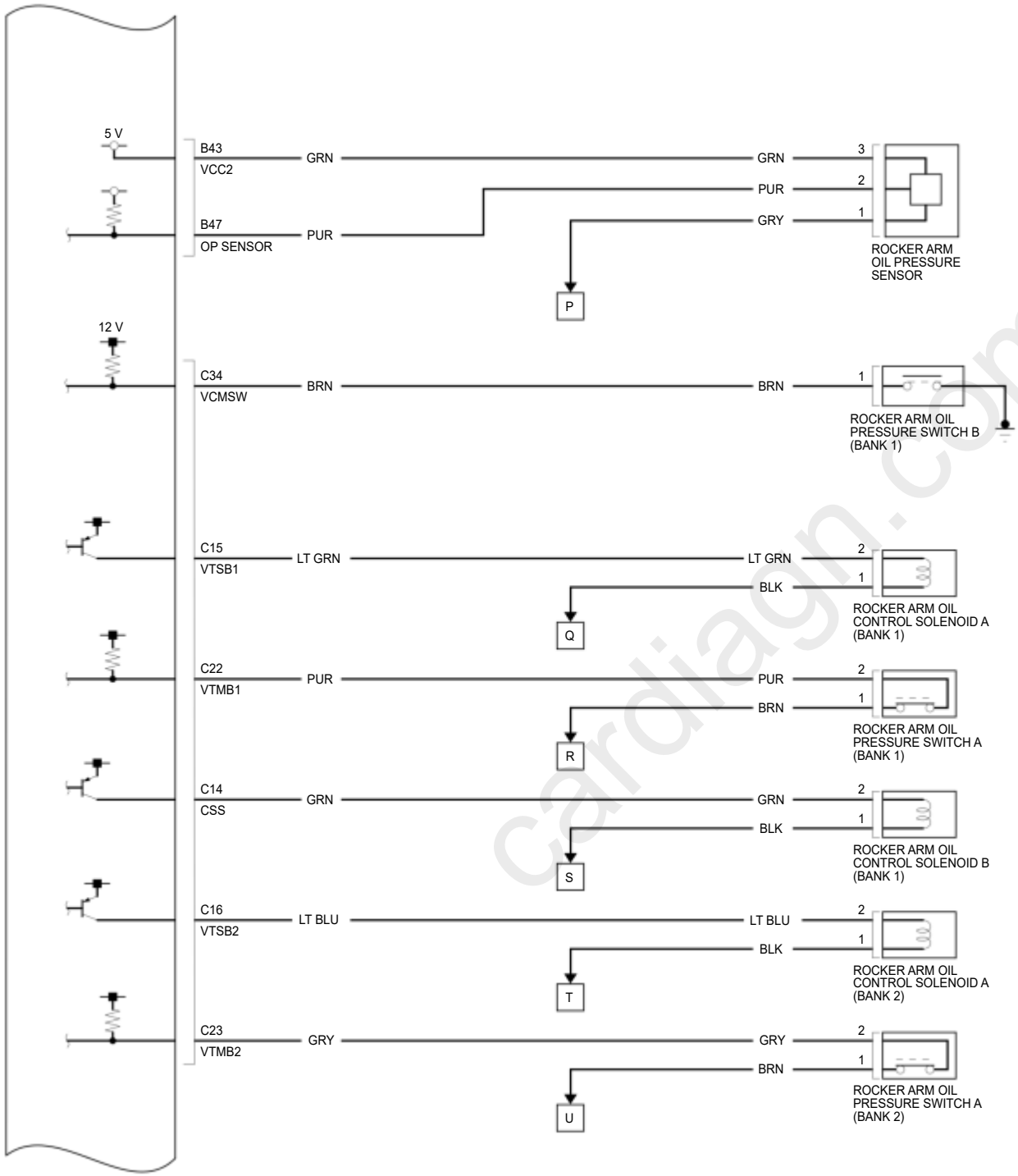
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*1: With navigation

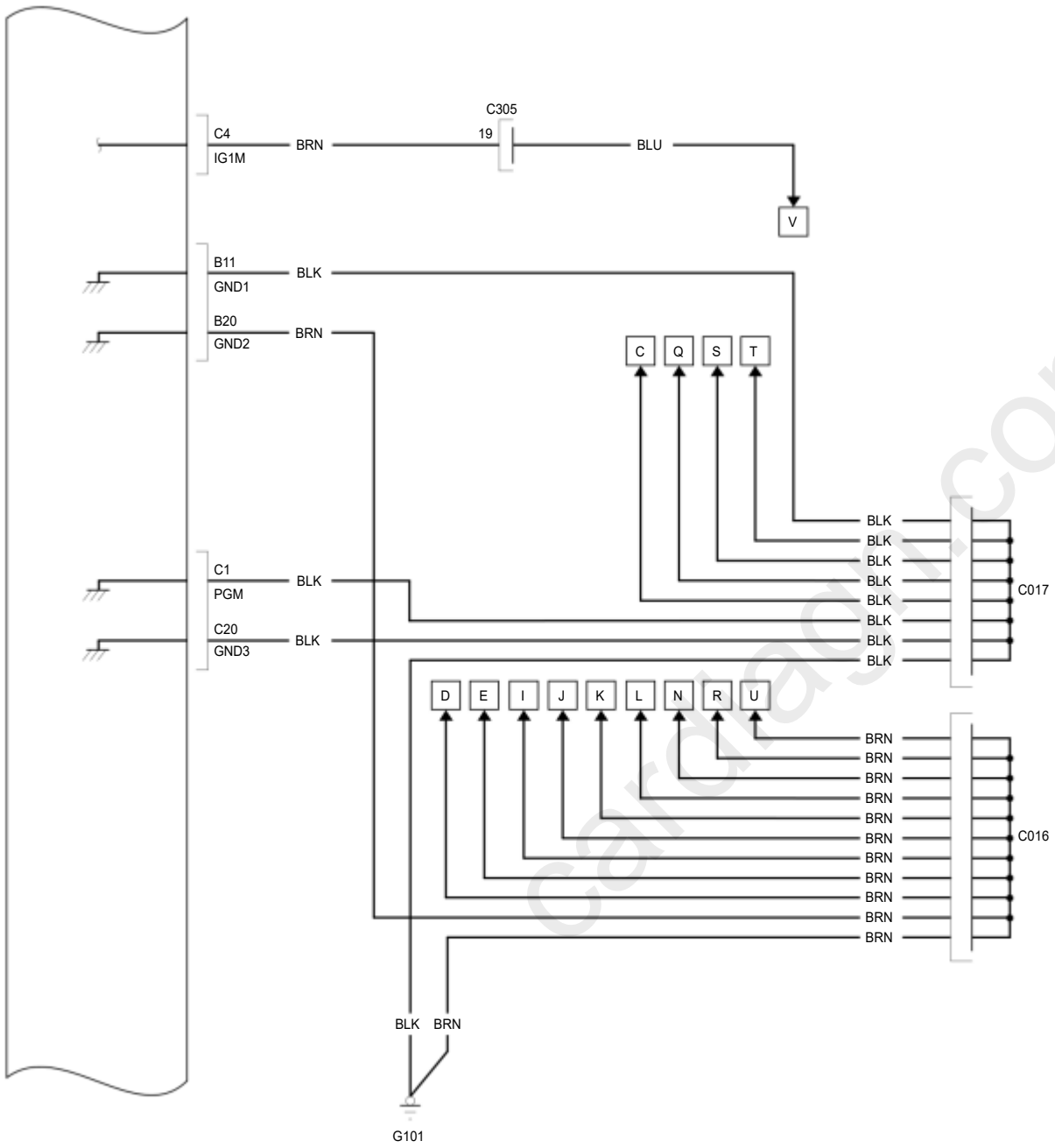
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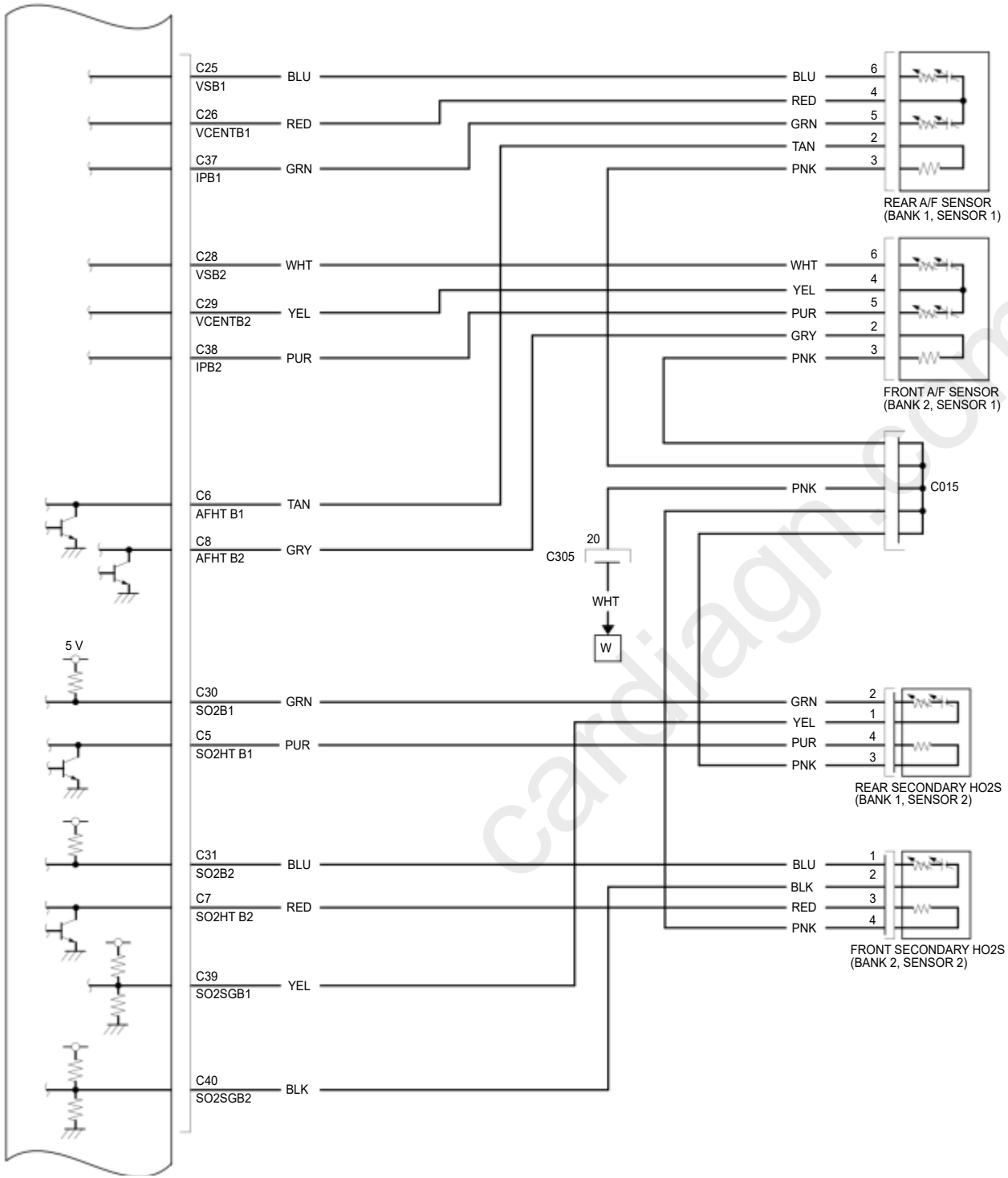


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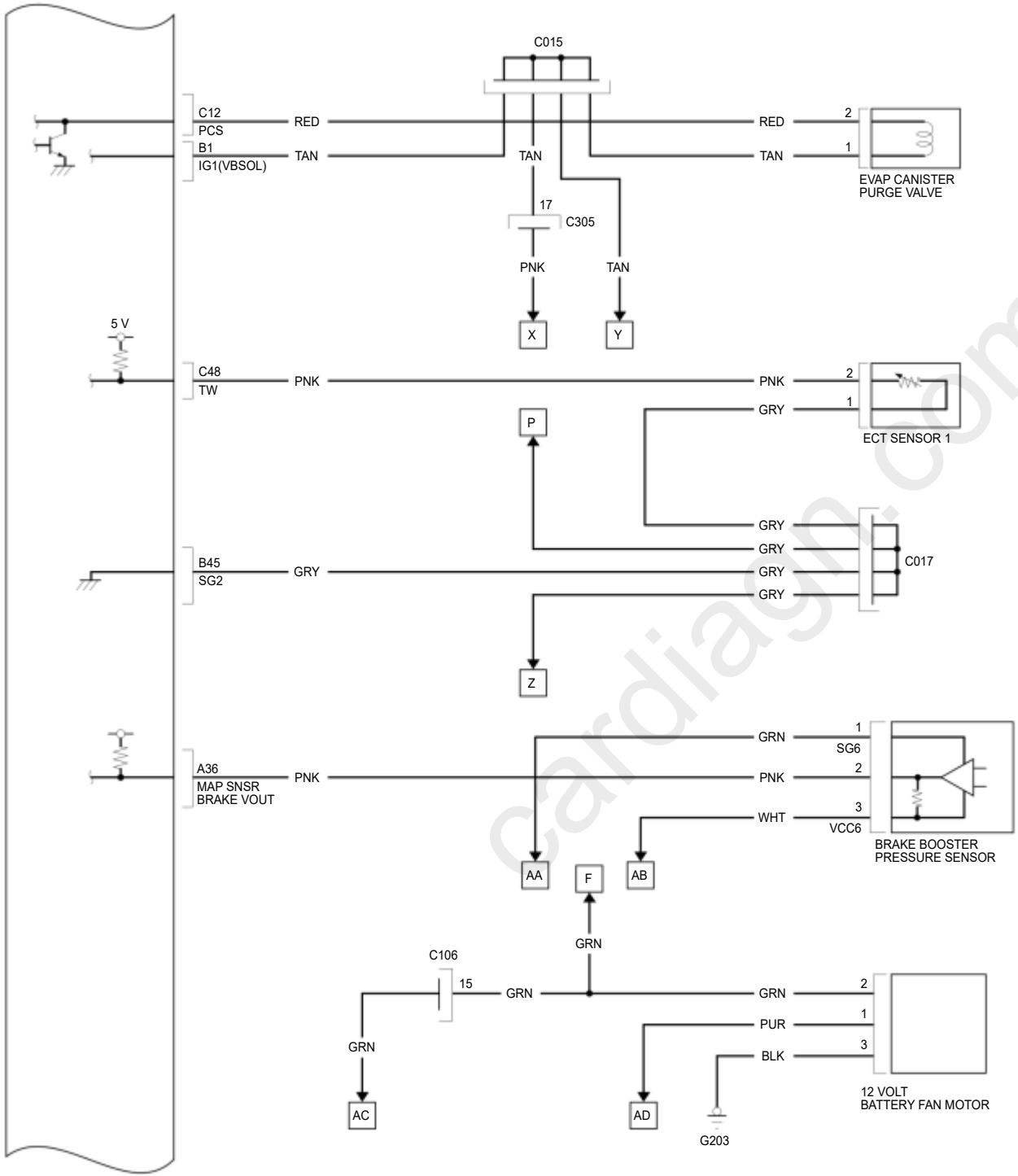

C4
IG1M
BRN
C305
19
BLU
V
B11
GND1
BLK
B20
GND2
BRN
C
Q
S
T
BLK
BLK
BLK
BLK
BLK
BLK
BLK
BLK
C017
C1
PGM
BLK
C20
GND3
BLK
D
E
I
J
K
L
N
R
U
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
BRN
C016
BLK
BRN
G101

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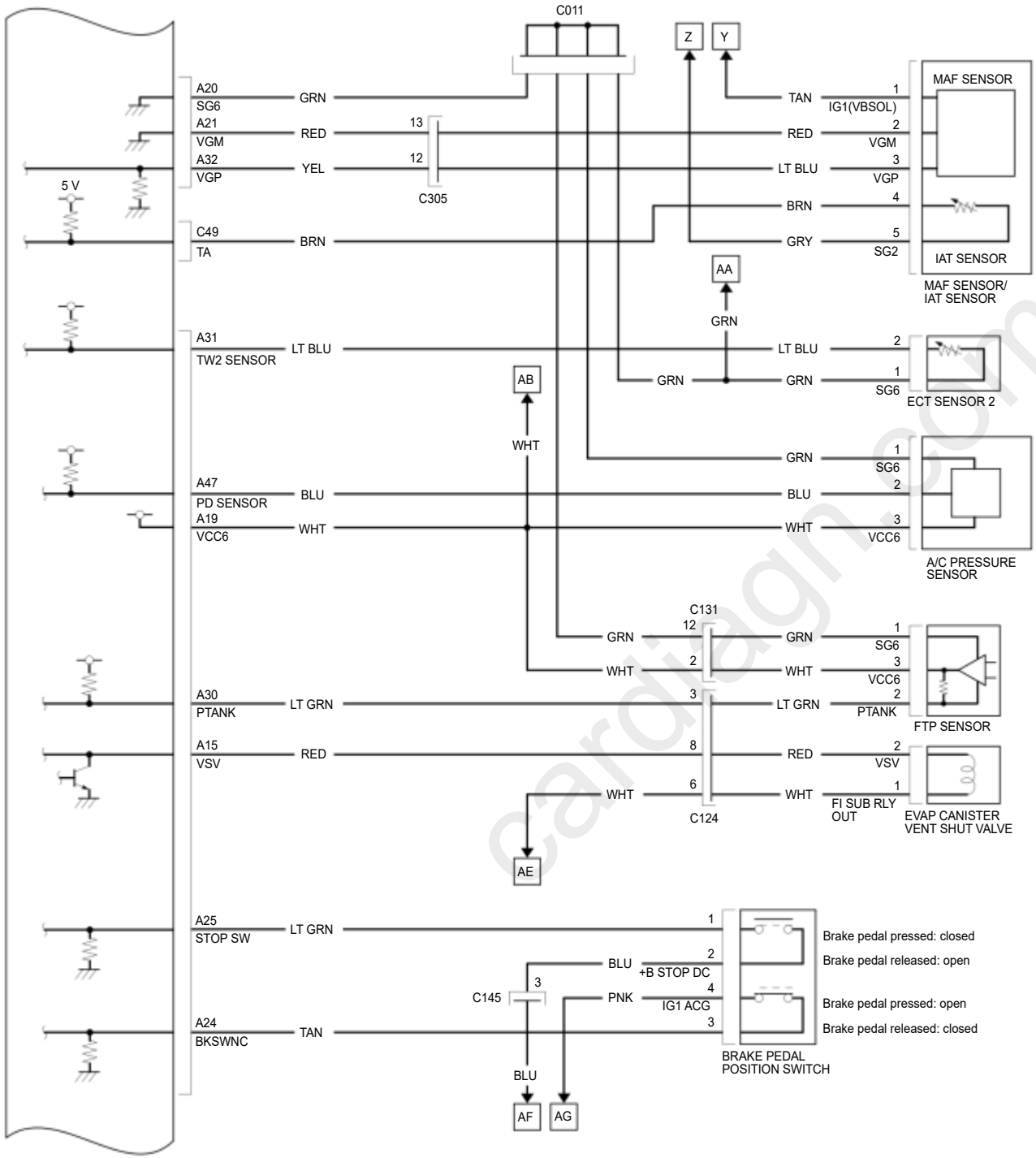


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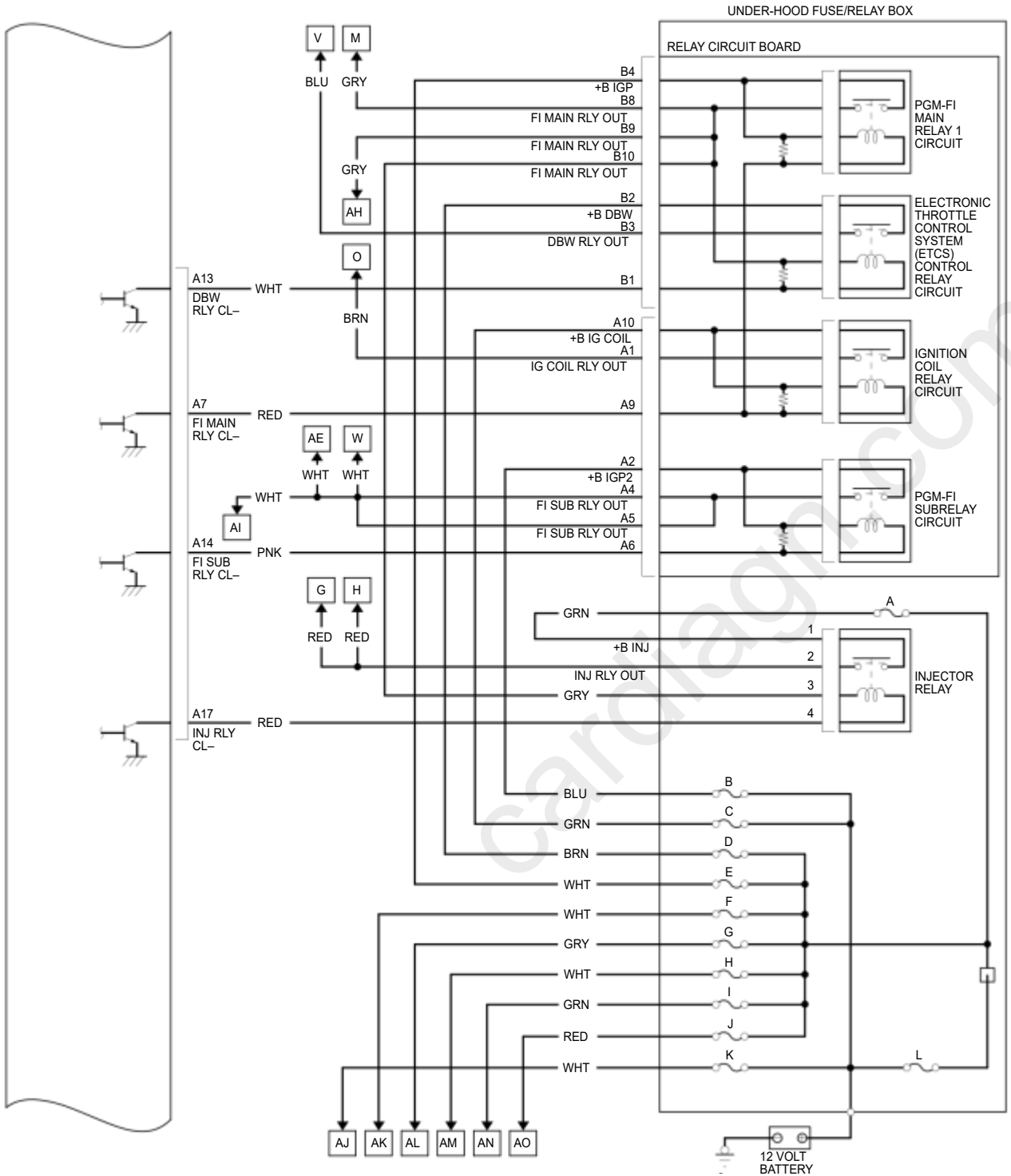

C015
C12
PCS
B1
IG1(VBSOL)
RED
TAN
TAN
RED
TAN
2
1
EVAP CANISTER
PURGE VALVE
17
C305
PNK
TAN
X
Y
5 V
C48
TW
PNK
PNK
GRY
2
1
ECT SENSOR 1
P
GRY
GRY
GRY
GRY
C017
B45
SG2
GRY
Z
A36
MAP SNSR
BRAKE VOUT
PNK
GRN
PNK
WHT
1
SG6
2
3
VCC6
BRAKE BOOSTER
PRESSURE SENSOR
AA
F
AB
GRN
C106
15
GRN
GRN
GRN
AC
GRN
PUR
BLK
2
1
3
12 VOLT
BATTERY FAN MOTOR
AD
G203

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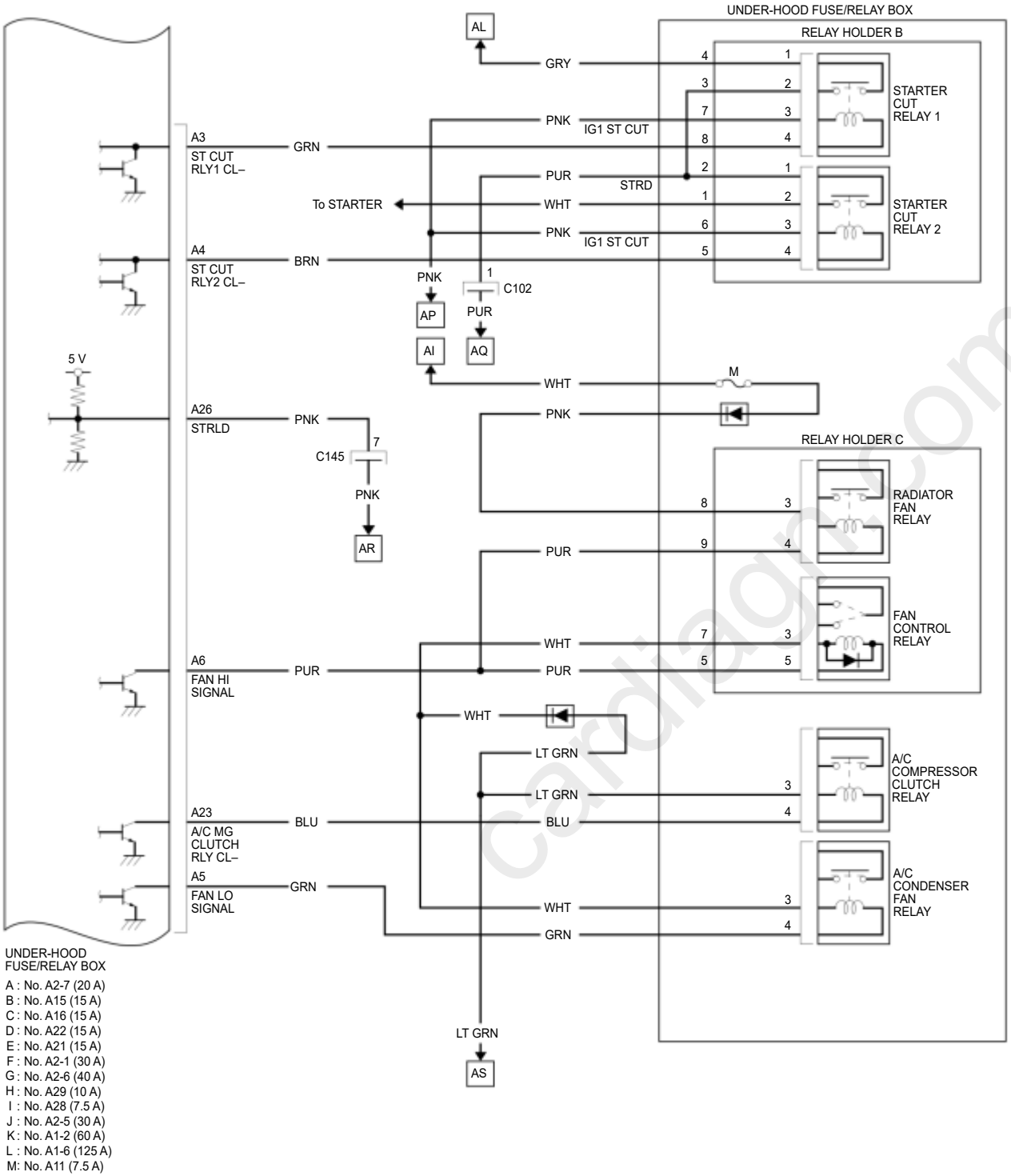


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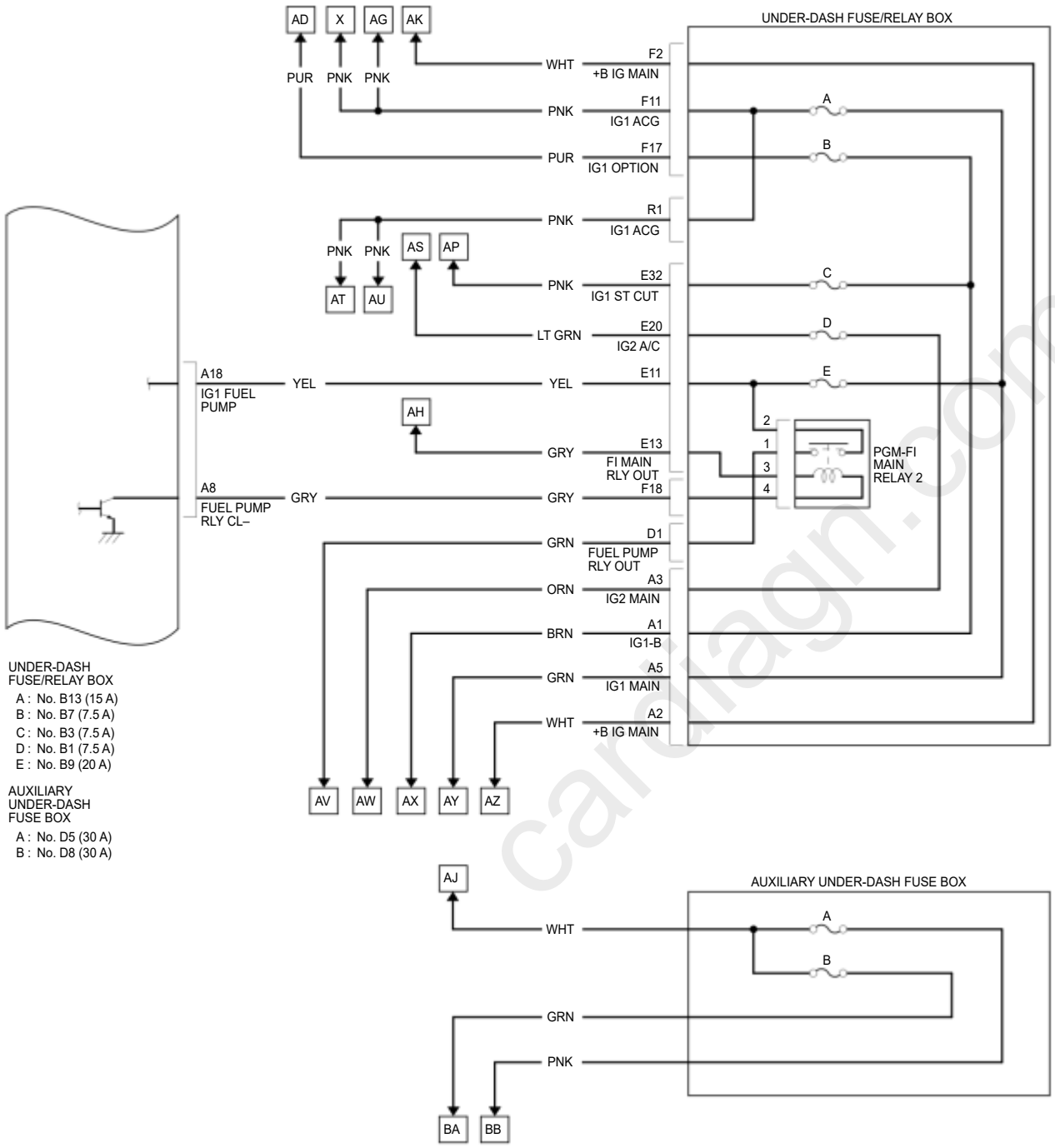
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UNDER-HOOD FUSE/RELAY BOX
RELAY CIRCUIT BOARD
V
M
BLU
GRY
B4
+B IGP
B8
FI MAIN RLY OUT
B9
FI MAIN RLY OUT
B10
FI MAIN RLY OUT
PGM-FI MAIN RELAY 1 CIRCUIT
GRY
AH
B2
+B DBW
B3
DBW RLY OUT
ELECTRONIC THROTTLE CONTROL SYSTEM (ETCS) CONTROL RELAY CIRCUIT
O
A13
DBW RLY CL–
WHT
B1
BRN
A10
+B IG COIL
A1
IG COIL RLY OUT
IGNITION COIL RELAY CIRCUIT
A7
FI MAIN RLY CL–
RED
A9
AE
W
WHT
WHT
A2
+B IGP2
A4
FI SUB RLY OUT
A5
FI SUB RLY OUT
A6
PGM-FI SUBRELAY CIRCUIT
WHT
AI
A14
FI SUB RLY CL–
PNK
G
H
RED
RED
GRN
A
1
+B INJ
2
INJ RLY OUT
3
GRY
4
INJECTOR RELAY
A17
INJ RLY CL–
RED
BLU
B
GRN
C
BRN
D
WHT
E
WHT
F
GRY
G
WHT
H
GRN
I
RED
J
WHT
K
L
AJ
AK
AL
AM
AN
AO
12 VOLT BATTERY

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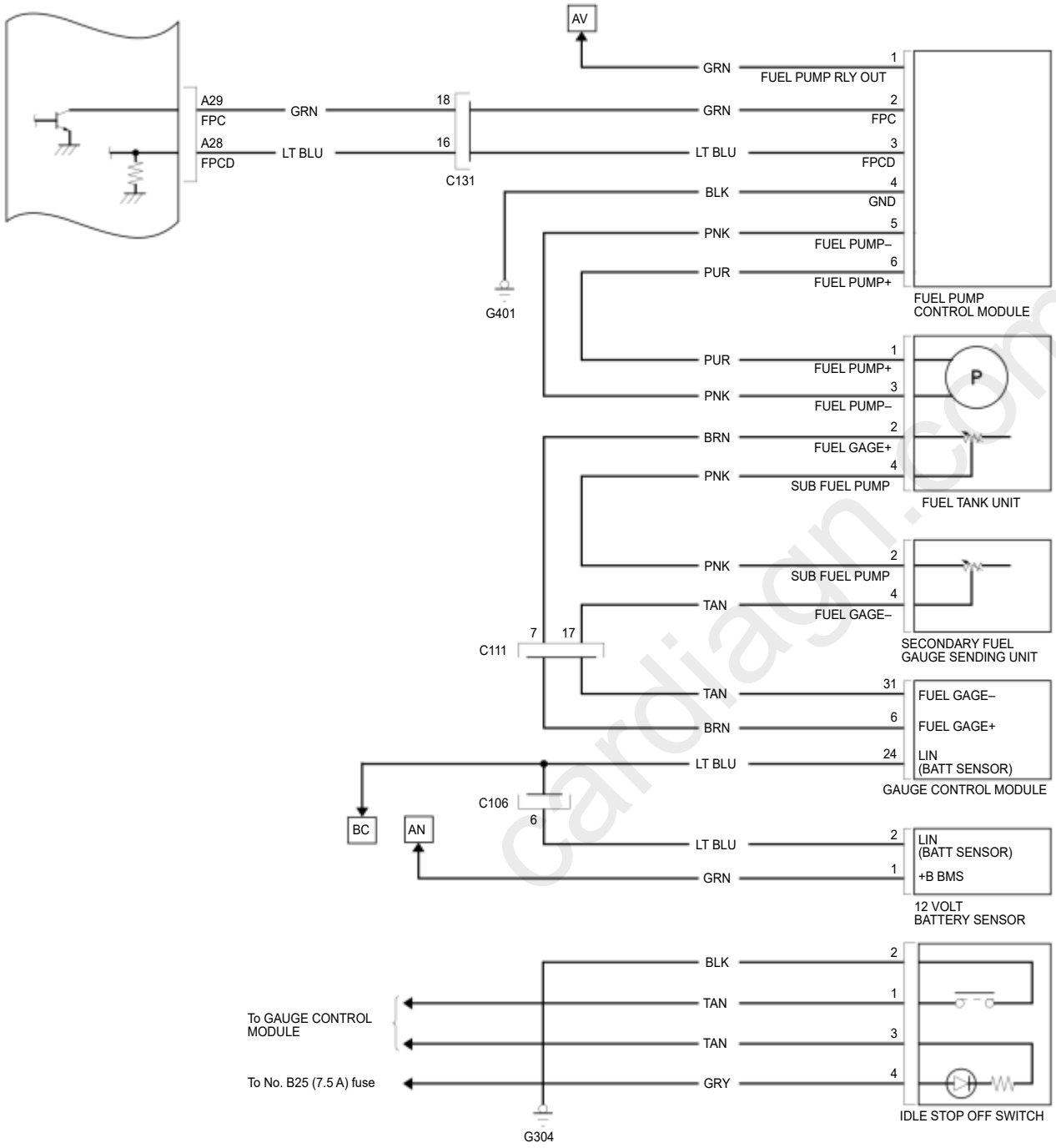

UNDER-HOOD FUSE/RELAY BOX
RELAY HOLDER B
AL
GRY
4
1
3
2
7
3
8
4
PNK
IG1 ST CUT
STARTER CUT RELAY 1
A3
ST CUT RLY1 CL–
GRN
PUR
STRD
2
1
To STARTER
WHT
1
2
PNK
IG1 ST CUT
6
3
STARTER CUT RELAY 2
A4
ST CUT RLY2 CL–
BRN
5
4
PNK
1
C102
AP
PUR
AI
AQ
5 V
WHT
M
A26
STRLD
PNK
PNK
C145
7
PNK
AR
RELAY HOLDER C
8
3
RADIATOR FAN RELAY
PUR
9
4
FAN CONTROL RELAY
WHT
7
3
A6
FAN HI SIGNAL
PUR
PUR
5
5
WHT
LT GRN
A/C COMPRESSOR CLUTCH RELAY
LT GRN
3
4
A23
A/C MG CLUTCH RLY CL–
BLU
BLU
A5
FAN LO SIGNAL
GRN
A/C CONDENSER FAN RELAY
WHT
3
GRN
4
LT GRN
AS
UNDER-HOOD FUSE/RELAY BOX
A : No. A2-7 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A2-5 (30 A)
K : No. A1-2 (60 A)
L : No. A1-6 (125 A)
M: No. A11 (7.5 A)

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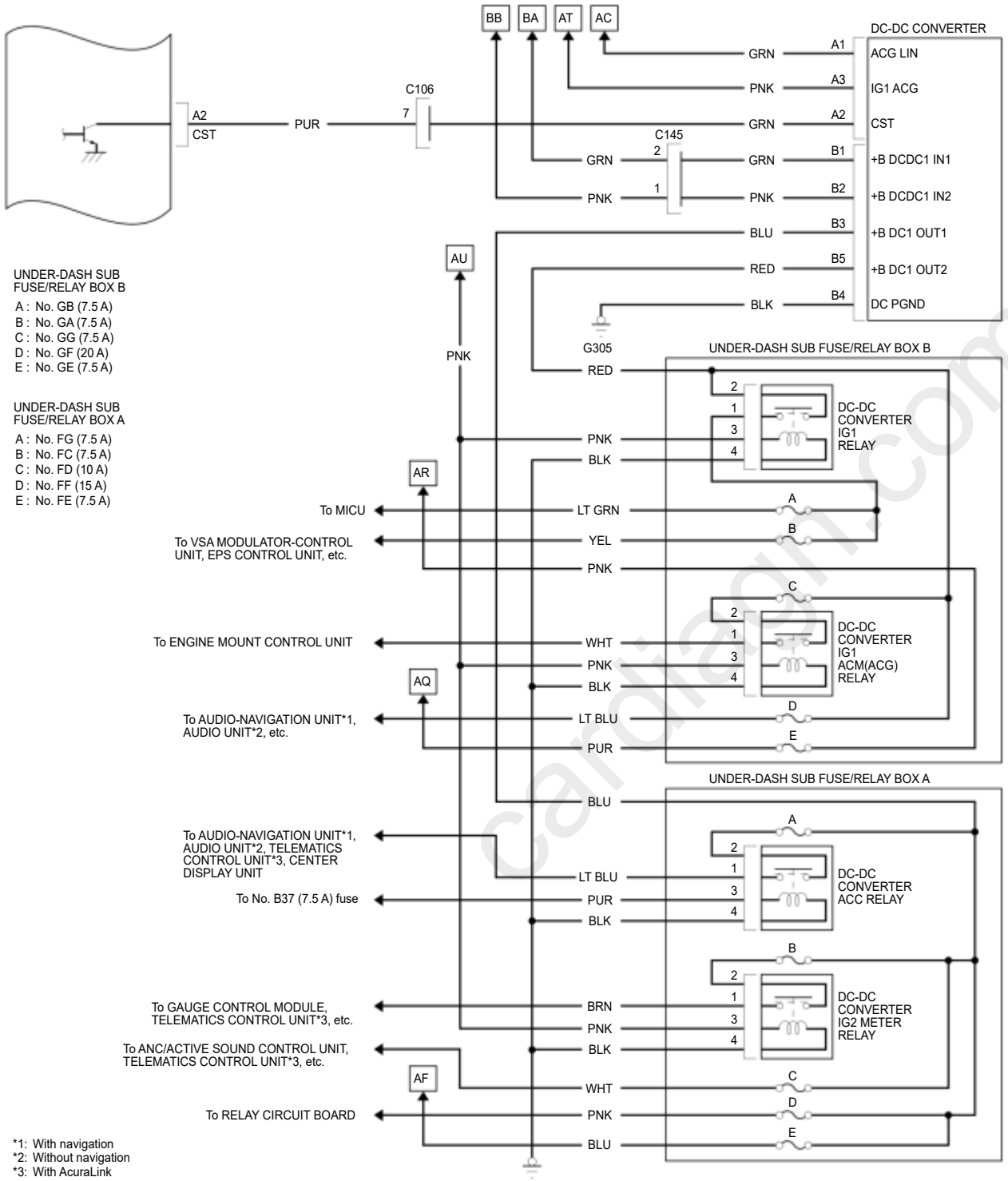
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UNDER-DASH SUB FUSE/RELAY BOX B

A : No. GB (7.5 A)
B : No. GA (7.5 A)
C : No. GG (7.5 A)
D : No. GF (20 A)
E : No. GE (7.5 A)

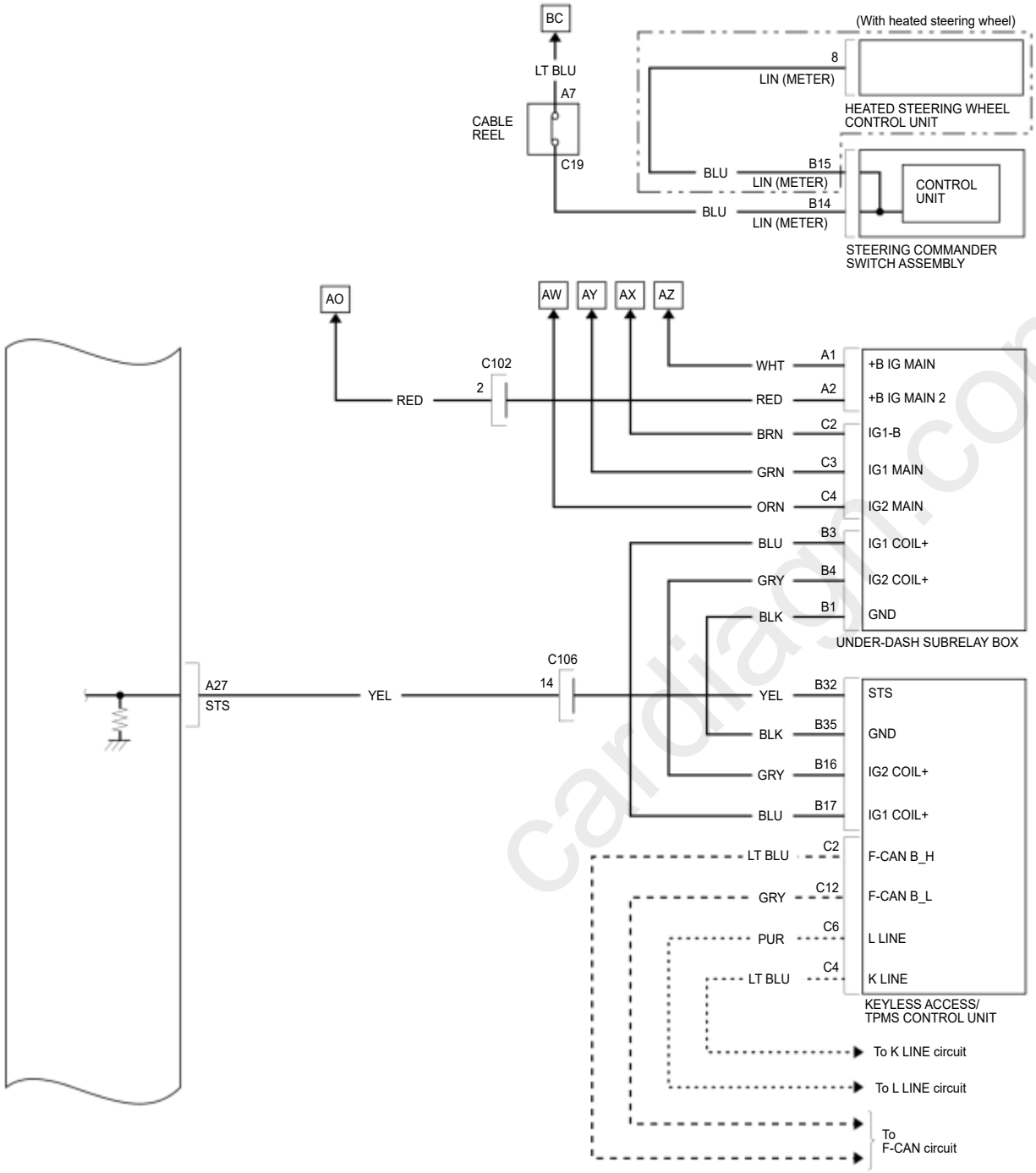
UNDER-DASH SUB FUSE/RELAY BOX A

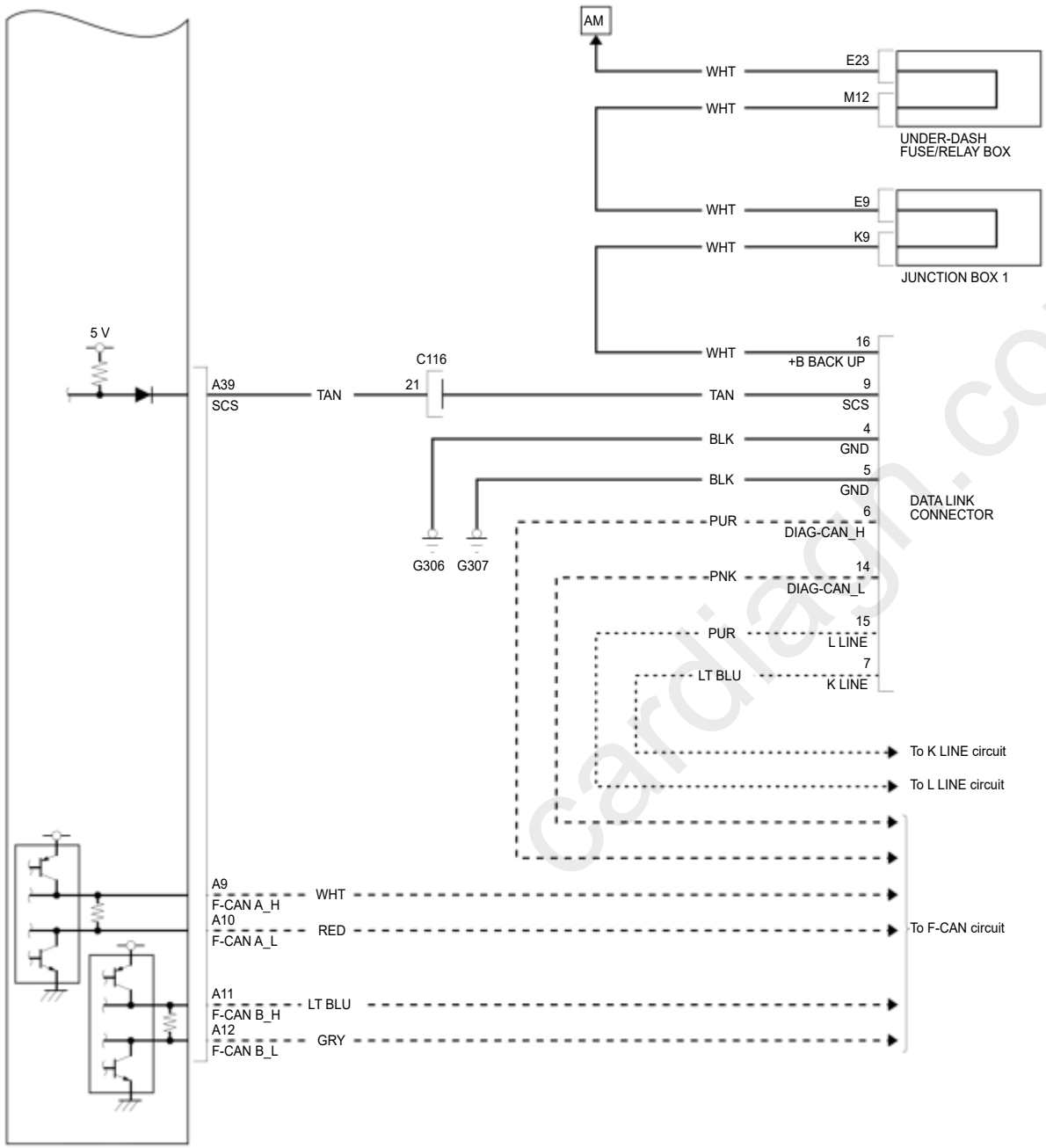
A : No. FG (7.5 A)
B : No. FC (7.5 A)
C : No. FD (10 A)
D : No. FF (15 A)
E : No. FE (7.5 A)

*1: With navigation
*2: Without navigation
*3: With AcuraLink

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BC
LT BLU
A7
CABLE REEL
C19
(With heated steering wheel)
8
LIN (METER)
HEATED STEERING WHEEL CONTROL UNIT
BLU
B15
LIN (METER)
BLU
B14
LIN (METER)
CONTROL UNIT
STEERING COMMANDER SWITCH ASSEMBLY
AO
AW
AY
AX
AZ
C102
2
RED
WHT
A1
+B IG MAIN
RED
A2
+B IG MAIN 2
BRN
C2
IG1-B
GRN
C3
IG1 MAIN
ORN
C4
IG2 MAIN
BLU
B3
IG1 COIL+
GRY
B4
IG2 COIL+
BLK
B1
GND
UNDER-DASH SUBRELAY BOX
A27
STS
YEL
C106
14
YEL
B32
STS
BLK
B35
GND
GRY
B16
IG2 COIL+
BLU
B17
IG1 COIL+
LT BLU
C2
F-CAN B_H
GRY
C12
F-CAN B_L
PUR
C6
L LINE
LT BLU
C4
K LINE
KEYLESS ACCESS/ TPMS CONTROL UNIT
To K LINE circuit
To L LINE circuit
To F-CAN circuit


AM
WHT
E23
WHT
M12
UNDER-DASH
FUSE/RELAY BOX
WHT
E9
WHT
K9
JUNCTION BOX 1
5 V
WHT
16
+B BACK UP
C116
A39
SCS
TAN
21
TAN
9
SCS
BLK
4
GND
BLK
5
GND
DATA LINK
CONNECTOR
PUR
6
DIAG-CAN_H
G306
G307
PNK
14
DIAG-CAN_L
PUR
15
L LINE
LT BLU
7
K LINE
To K LINE circuit
To L LINE circuit
A9
F-CAN A_H
WHT
A10
F-CAN A_L
RED
To F-CAN circuit
A11
F-CAN B_H
LT BLU
A12
F-CAN B_L
GRY

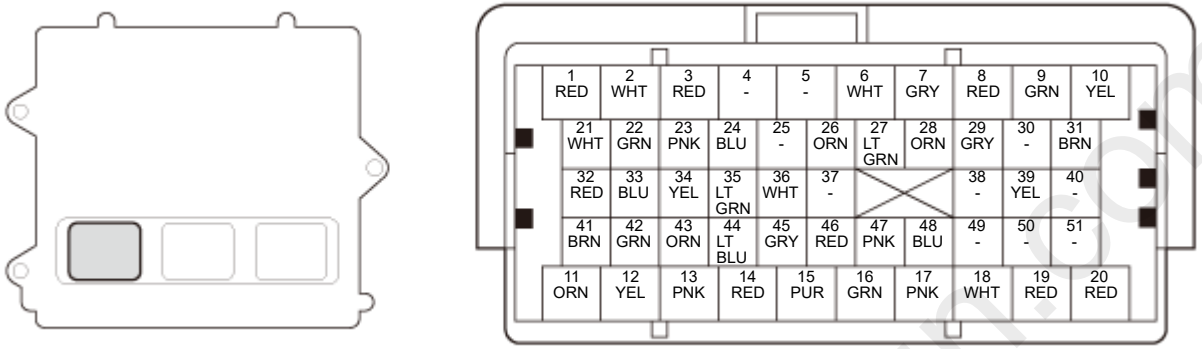
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PCM Connector for Inputs and Outputs

PCM Connector for Inputs and Outputs

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PCM Inputs and Outputs at PCM Connector A (□) (51P)



Terminal side of female terminals

Terminal number	Terminal name	Description
1	INJ RLY CL- (INJECTOR RELAY)	Drives injector relay
2	F-CAN_H (F-CAN COMMUNICATION SIGNAL HIGH)	Sends and receives communication signal
3	F-CAN_L (F-CAN COMMUNICATION SIGNAL LOW)	Sends and receives communication signal
4	Not used	
5	Not used	
6	S-NET (SERIAL COMMUNICATION FOR IMMOBILIZER)	Sends and receives communication signal
7	FUEL PUMP RLY CL- (PGM-FI MAIN RELAY 2)	Drives PGM-FI main relay 2
8	FI MAIN RLY CL- (PGMFI MAIN RELAY 1/IGNITION COIL RELAY)	Drives PGM-FI main relay 1 and ignition coil relay
9	ST CUT RLY1 CL- (STARTER CUT RELAY 1)	Drives starter cut relay 1
10	IG1 FUEL PUMP (IGNITION SIGNAL)	Detects ignition signal
11	IG1 MISS SOL (POWER SOURCE FOR SOLENOID VALVES)	Power source for solenoid valves
12	NEP (ENGINE SPEED PULSE)	Outputs engine speed pulse
13	VSP (VEHICLE SPEED SIGNAL OUTPUT)	Sends vehicle speed signal
14*1	VSV (EVAPORATIVE EMISSION (EVAP) CANISTER VENT SHUT VALVE)	Drives EVAP canister vent shut valve
15	FAN HI SIGNAL (A/C CONDENSER FAN RELAY/FAN CONTROL RELAY)	Drives A/C condenser fan relay and fan control relay
16	FAN LO SIGNAL (RADIATOR FAN RELAY)	Drives radiator fan relay
17	SHIFT LOCK SOL (SHIFT LOCK SOLENOID)	Drives shift lock solenoid
18	DBW RLY CL- (ELECTRONIC THROTTLE CONTROL SYSTEM (ETCS) CONTROL RELAY)	Drives electronic throttle control system (ETCS) control relay

Terminal number	Terminal name	Description
19	INJ RLY OUT (INJECTOR POWER SOURCE)	Power source for PCM (injector driver)
20	INJ RLY OUT (INJECTOR POWER SOURCE)	Power source for PCM (injector driver)
21	VCC6 (SENSOR VOLTAGE)	Provides sensor reference voltage
22	SG6 (SENSOR GROUND)	Sensor ground
23	STRLD (STARTER SIGNAL LOAD)	Detects starter cut relay signal
24	PD SENSOR (A/C PRESSURE SENSOR)	Detects A/C pressure sensor signal
25	Not used	
26	SCS (SERVICE CHECK SIGNAL)	Detects service check signal

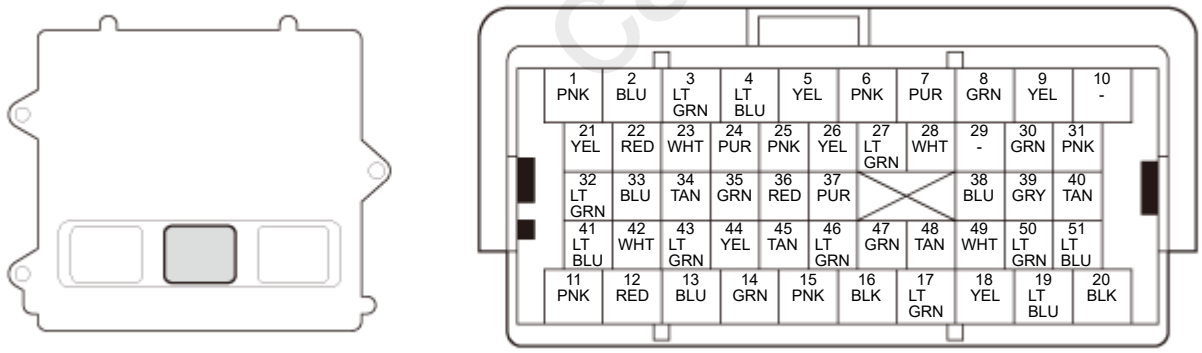
*1: USA and Canada models

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Terminal number	Terminal name	Description
27	STOP SW (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
28	BKSWNC (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
29	ATP-P (TRANSMISSION RANGE SWITCH P POSITION)	Detects transmission range switch P position signal
30	Not used	
31	ST CUT RLY2 CL- (STARTER CUT RELAY 2)	Drives starter cut relay 2
32	VCC4 (SENSOR VOLTAGE)	Provides sensor reference voltage
33	SG4 (SENSOR GROUND)	Sensor ground
34	APS1 (ACCELERATOR PEDAL POSITION (APP) SENSOR A)	Detects APP sensor A signal
35*1	PTANK (FUEL TANK PRESSURE (FTP) SENSOR)	Detects FTP sensor signal
36	ELD (ELECTRICAL LOAD DETECTOR (ELD))	Detects ELD signal
37	Not used	
38	Not used	
39	STS (STARTER SWITCH SIGNAL)	Detects starter switch signal
40	Not used	
41	VCC5 (SENSOR VOLTAGE)	Provides sensor reference voltage
42	SG5 (SENSOR GROUND)	Sensor ground
43	APS2 (ACCELERATOR PEDAL POSITION (APP) SENSOR B)	Detects APP sensor B signal
44	TW2 SENSOR (ENGINE COOLANT TEMPERATURE (ECT) SENSOR 2)	Detects ECT sensor 2 signal
45	PADDLE SW UP (PADDLE SHIFTER + (UPSHIFT SWITCH))	Detects paddle shifter + (upshift switch) signal
46	PADDLE SW DOWN (PADDLE SHIFTER - (DOWNSHIFT SWITCH))	Detects paddle shifter - (downshift switch) signal
47	FI SUB RLY CL- (PGM-FI SUBRELAY)	Drives PGM-FI subrelay
48	A/C MG CLUTCH RLY CL- (A/C COMPRESSOR CLUTCH RELAY)	Drives A/C compressor clutch relay
49	Not used	
50	Not used	
51	Not used	

*1: USA and Canada models

PCM Inputs and Outputs at PCM Connector B (△) (51P)



Terminal side of female terminals

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Terminal number	Terminal name	Description
1	PCS (EVAPORATIVE EMISSION (EVAP) CANISTER PURGE VALVE)	Drives EVAP canister purge valve
2	MCS (ENGINE MOUNT CONTROL SOLENOID)	Drives engine mount control solenoid
3	SVSP (INTAKE MANIFOLD TUNING (IMT) ACTUATOR +SIDE)	Drives IMT actuator
4	SVSM (INTAKE MANIFOLD TUNING (IMT) ACTUATOR -SIDE)	Drives IMT actuator
5	SHA (SHIFT SOLENOID VALVE A)	Drives shift solenoid valve A
6	LSE (CLUTCH PRESSURE CONTROL SOLENOID VALVE E)	Drives clutch pressure control solenoid valve E

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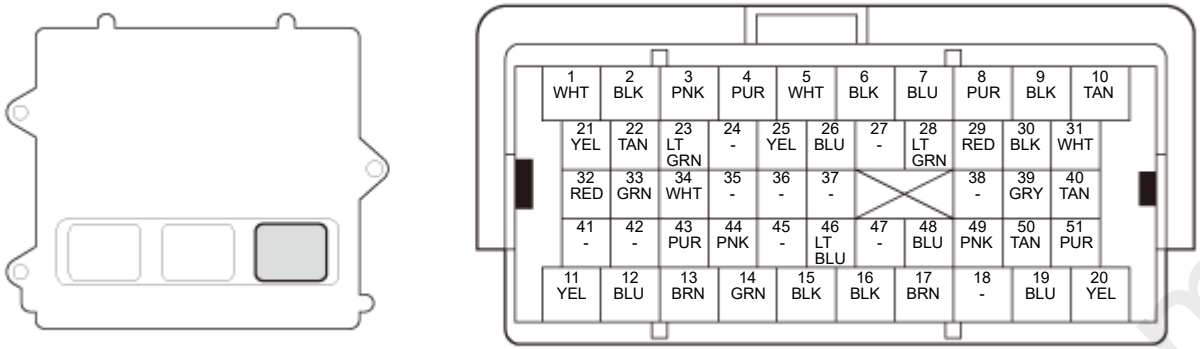
Terminal number	Terminal name	Description
7	LSA (CLUTCH PRESSURE CONTROL SOLENOID VALVE A)	Drives clutch pressure control solenoid valve A
8	LSC (CLUTCH PRESSURE CONTROL SOLENOID VALVE C)	Drives clutch pressure control solenoid valve C
9	IGP(ECU) (POWER SOURCE)	Power source for PCM
10	Not used	
11	SHB (SHIFT SOLENOID VALVE B)	Drives shift solenoid valve B
12	SHC (SHIFT SOLENOID VALVE C)	Drives shift solenoid valve C
13	SHE (SHIFT SOLENOID VALVE E)	Drives shift solenoid valve E
14	AFHT (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) HEATER CONTROL)	Drives A/F sensor (sensor 1) heater
15	SO2 HT (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S (SENSOR 2) HEATER CONTROL)	Drives secondary HO2S (sensor 2) heater
16	HT GND (POWER GROUND)	Ground for PCM
17	LSB (CLUTCH PRESSURE CONTROL SOLENOID VALVE B)	Drives clutch pressure control solenoid valve B
18	LSD (CLUTCH PRESSURE CONTROL SOLENOID VALVE D)	Drives clutch pressure control solenoid valve D
19	LSPLA (LINE PRESSURE CONTROL SOLENOID VALVE)	Drives line pressure control solenoid valve
20	GND1 (POWER GROUND)	Ground for PCM
21	AFS- (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) -SIDE)	Detects A/F sensor (sensor 1) signal
22	AFS+ (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) +SIDE)	Detects A/F sensor (sensor 1) signal
23	PF (FUEL RAIL PRESSURE SENSOR)	Detects fuel rail pressure sensor signal
24	PB (MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR)	Detects MAP sensor signal
25	TW (ENGINE COOLANT TEMPERATURE SENSOR (ECT) SENSOR 1)	Detects ECT sensor 1 signal
26	TA (INTAKE AIR TEMPERATURE (IAT) SENSOR)	Detects IAT sensor signal
27	TATF (ATF TEMPERATURE SENSOR)	Detects ATF temperature sensor signal
28	SVM (INTAKE MANIFOLD TUNING (IMT) ACTUATOR SENSOR)	Detects IMT actuator sensor signal
29	Not used	
30	SG1 (SENSOR GROUND)	Sensor ground
31	VCC1 (SENSOR VOLTAGE)	Provides sensor reference voltage
32	NC (OUTPUT SHAFT SPEED SENSOR)	Detects output shaft speed sensor signal
33	NM (INPUT SHAFT SPEED SENSOR)	Detects input shaft speed sensor signal
34	STRKA (SHIFT FORK A POSITION SENSOR)	Detects shift fork A position sensor signal
35	STRKB (SHIFT FORK B POSITION SENSOR)	Detects shift fork B position sensor signal
36	STRKC (SHIFT FORK C POSITION SENSOR)	Detects shift fork C position sensor signal
37	PCL2 (EVEN CLUTCH PRESSURE SENSOR)	Detects EVEN clutch pressure sensor signal
38	PCL1 (ODD CLUTCH PRESSURE SENSOR)	Detects ODD clutch pressure sensor signal
39	SG2 (SENSOR GROUND)	Sensor ground
40	VCC2 (SENSOR VOLTAGE)	Provides sensor reference voltage
41	NEVEN (EVEN GEAR SHAFT SPEED SENSOR)	Detects even gear shaft speed sensor signal
42	NODD (ODD GEAR SHAFT SPEED SENSOR)	Detects odd gear shaft speed sensor signal
43	CAM (CAMSHAFT POSITION (CMP) SENSOR A)	Detects CMP sensor A signal
44	STRKD (SHIFT FORK D POSITION SENSOR)	Detects shift fork D position sensor signal
45	PCLR (REVERSE CLUTCH PRESSURE SENSOR)	Detects reverse clutch pressure sensor signal
46	SO2 (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S) (SENSOR 2))	Detects secondary HO2S (sensor 2) signal
47	SO2SG (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S (SENSOR 2) SENSOR GROUND)	Sensor ground for secondary HO2S (sensor 2)

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Terminal number	Terminal name	Description
48	LIN (LOCAL INTERCONNECT NETWORK)	Sends and receives communication signal
49	SHD (SHIFT SOLENOID VALVE D)	Drives shift solenoid valve D
50	VGM (MASS AIR FLOW (MAF) SENSOR -SIDE)	Ground for MAF sensor signal
51	VGP (MASS AIR FLOW (MAF) SENSOR +SIDE)	Detects MAF sensor signal

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PCM Inputs and Outputs at PCM Connector C (○) (51P)



Terminal side of female terminals

Terminal number	Terminal name	Description
1	INJ L1 (No. 1 INJECTOR -)	Drives No. 1 injector
2	INJ H1 (No. 1 INJECTOR +)	Drives No. 1 injector
3	INJ H4 (No. 4 INJECTOR +)	Drives No. 4 injector
4	INJ L4 (No. 4 INJECTOR -)	Drives No. 4 injector
5	HPUMP H (HIGH PRESSURE FUEL PUMP +)	Drives fuel control solenoid (build into high pressure fuel pump)
6	HPUMP L (HIGH PRESSURE FUEL PUMP -)	Drives fuel control solenoid (build into high pressure fuel pump)
7	MTR1 (THROTTLE ACTUATOR -SIDE)	Ground for throttle actuator
8	MTR2 (THROTTLE ACTUATOR +SIDE)	Drives throttle actuator
9	PGM (POWER GROUND)	Ground for PCM
10	VBDBW (IGNITION SIGNAL ETCS)	Detects ignition signal
11	INJ L2 (No. 2 INJECTOR -)	Drives No. 2 injector
12	INJ H2 (No. 2 INJECTOR +)	Drives No. 2 injector
13	INJ H3 (No. 3 INJECTOR +)	Drives No. 3 injector
14	INJ L3 (No. 3 INJECTOR -)	Drives No. 3 injector
15	INJ GND 1 (INJECTOR GROUND)	Ground for PCM (injector driver)
16	INJ GND 2 (INJECTOR GROUND)	Ground for PCM (injector driver)
17	GND2 (POWER GROUND)	Ground for PCM
18	Not used	
19	IGN02 (No. 2 IGNITION COIL PULSE)	Drives No. 2 ignition coil
20	IGN01 (No. 1 IGNITION COIL PULSE)	Drives No. 1 ignition coil
21	ATP-FWD1 (TRANSMISSION RANGE SWITCH FWD 1 POSITION)	Detects transmission range switch D position signal
22	ATP-RVS1 (TRANSMISSION RANGE SWITCH RVS 1 POSITION)	Detects transmission range switch R position signal
23	ATP-D (TRANSMISSION RANGE SWITCH D POSITION)	Detects transmission range switch D position signal
24	Not used	
25[*1]	VTM (ROCKER ARM OIL PRESSURE SWITCH)	Detects rocker arm oil pressure switch signal

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Terminal number	Terminal name	Description
26	VTC (VTC OIL CONTROL SOLENOID VALVE)	Drives VTC oil control solenoid valve
27	Not used	
28	THL1 (THROTTLE POSITION (TP) SENSOR A)	Detects TP sensor A signal
29	THL2 (THROTTLE POSITION (TP) SENSOR B)	Detects TP sensor B signal
30	KS GND (KNOCK SENSOR GROUND)	Sensor ground for knock sensor
31	KNOCK (KNOCK SENSOR)	Detects knock sensor signal
32	ATP-FWD2 (TRANSMISSION RANGE SWITCH FWD 2 POSITION)	Detects transmission range switch D position signal
33	ATP-RVS2 (TRANSMISSION RANGE SWITCH RVS 2 POSITION)	Detects transmission range switch R position signal

*1: USA and Canada models

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Terminal number	Terminal name	Description
34	ATP-R (TRANSMISSION RANGE SWITCH R POSITION)	Detects transmission range switch R position signal
35	Not used	
36	Not used	
37	Not used	
38	Not used	
39	SG3(DBW) (SENSOR GROUND)	Ground for PCM (TP sensor)
40	VCC3(DBW) (SENSOR VOLTAGE)	Provides sensor reference voltage (TP sensor)
41	Not used	
42	Not used	
43	ATP-N (TRANSMISSION RANGE SWITCH N POSITION)	Detects transmission range switch N position signal
44	ENG OP SW (OIL PRESSURE SWITCH)	Detects engine oil pressure switch signal
45	Not used	
46	VTS (ROCKER ARM OIL CONTROL SOLENOID)	Drives rocker arm oil control solenoid
47	Not used	
48	CRKN (CRANKSHAFT POSITION (CKP) SENSOR)	Detects CKP sensor signal
49	TDC (CAMSHAFT POSITION (CMP) SENSOR B)	Detects CMP sensor B signal
50	IGN03 (No. 3 IGNITION COIL PULSE)	Drives No. 3 ignition coil
51	IGN04 (No. 4 IGNITION COIL PULSE)	Drives No. 4 ignition coil

*1: USA and Canada models

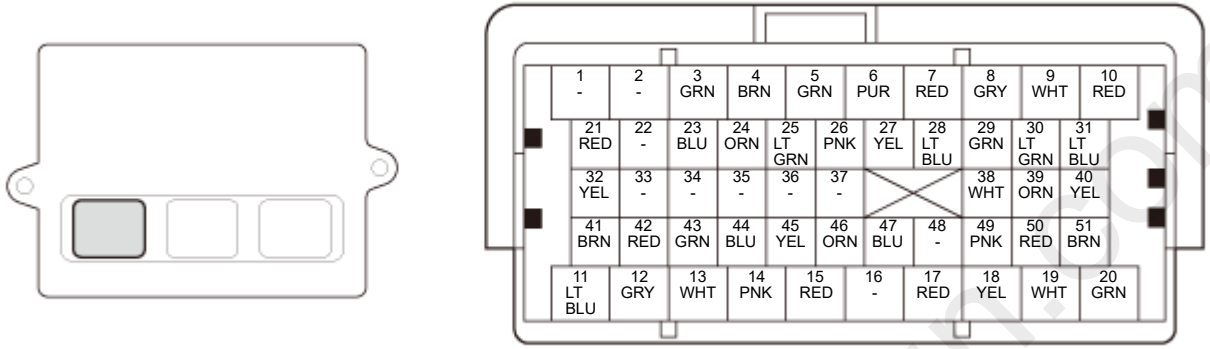
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PCM Connector for Inputs and Outputs

PCM Connector for Inputs and Outputs

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PCM Inputs and Outputs at PCM Connector A (□) (51P)



Terminal side of female terminals

Terminal number	Terminal name	Description
1	Not used	
2	CST	Detects signal from DC-DC converter
3	ST CUT RLY1 CL- (STARTER CUT RELAY 1)	Drives starter cut relay 1
4	ST CUT RLY2 CL- (STARTER CUT RELAY 2)	Drives starter cut relay 2
5	FAN LO SIGNAL (A/C CONDENSER FAN RELAY)	Drives A/C condenser fan relay
6	FAN HI SIGNAL (RADIATOR FAN RELAY/FAN CONTROL RELAY)	Drives radiator fan relay and fan control relay
7	FI MAIN RLY CL- (PGM-FI MAIN RELAY 1/IGNITION COIL RELAY)	Drives PGM-FI main relay 1 and ignition coil relay
8	FUEL PUMP RLY CL- (PGM-FI MAIN RELAY 2)	Drives PGM-FI main relay 2
9	F-CAN A_H (F-CAN COMMUNICATION A SIGNAL HIGH)	Sends and receives communication signal
10	F-CAN A_L (F-CAN COMMUNICATION A SIGNAL LOW)	Sends and receives communication signal
11	F-CAN B_H (F-CAN COMMUNICATION B SIGNAL HIGH)	Sends and receives communication signal
12	F-CAN B_L (F-CAN COMMUNICATION B SIGNAL LOW)	Sends and receives communication signal
13	DBW RLY CL- (ELECTRONIC THROTTLE CONTROL SYSTEM (ETCS) CONTROL RELAY)	Drives electronic throttle control system (ETCS) control relay
14	FI SUB RLY CL- (PGM-FI SUBRELAY)	Drives PGM-FI subrelay
15	VSV (EVAPORATIVE EMISSION (EVAP) CANISTER VENT SHUT VALVE)	Drives EVAP canister vent shut valve
16	Not used	
17	INJ RLY CL- (INJECTOR RELAY)	Drives injector relay
18	IG1 FUEL PUMP (IGNITION SIGNAL)	Detects ignition signal

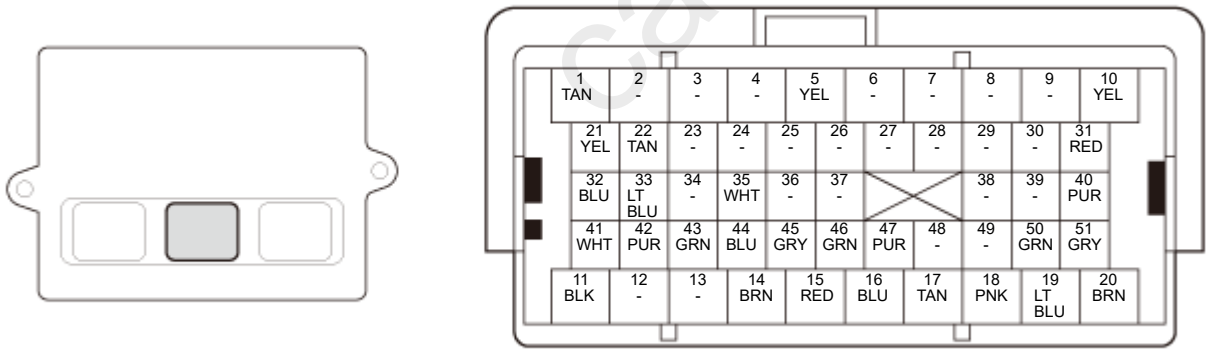
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Terminal number	Terminal name	Description
19	VCC6 (SENSOR VOLTAGE)	Provides sensor reference voltage
20	SG6 (SENSOR GROUND)	Sensor ground
21	VGM (MASS AIR FLOW (MAF) SENSOR -SIDE)	Ground for MAF sensor signal
22	Not used	
23	A/C MG CLUTCH RLY CL- (A/C COMPRESSOR CLUTCH RELAY)	Drives A/C compressor clutch relay
24	BKSWNC (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
25	STOP SW (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
26	STRLD (STARTER SIGNAL LOAD)	Detects starter cut relay signal

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Terminal number	Terminal name	Description
27	STS (STARTER SWITCH SIGNAL)	Detects starter switch signal
28	FPCD (FUEL PUMP CONTROL MODULE DIAGNOSIS)	Detects fuel pump control module diagnosis signal
29	FPC (FUEL PUMP CONTROL)	Sends fuel pump control module control signal
30	PTANK (FUEL TANK PRESSURE (FTP) SENSOR)	Detects FTP sensor signal
31	TW2 SENSOR (ENGINE COOLANT TEMPERATURE (ECT) SENSOR 2)	Detects ECT sensor 2 signal
32	VGP (MASS AIR FLOW (MAF) SENSOR +SIDE)	Detects MAF sensor signal
33	Not used	
34	Not used	
35	Not used	
36	MAP SNSR BRAKE VOUT	Detects brake booster pressure sensor signal
37	Not used	
38	S-NET (SERIAL COMMUNICATION FOR IMMOBILIZER)	Sends and receives communication signal
39	SCS (SERVICE CHECK SIGNAL)	Detects service check signal
40	NEP (ENGINE SPEED PULSE)	Outputs engine speed pulse
41	VCC3 (SENSOR VOLTAGE)	Provides sensor reference voltage
42	VCC4 (SENSOR VOLTAGE)	Provides sensor reference voltage
43	SG3 (SENSOR GROUND	Sensor ground
44	SG4 (SENSOR GROUND)	Sensor ground
45	APS1 (ACCELERATOR PEDAL POSITION (APP) SENSOR A)	Detects APP sensor A signal
46	APS2 (ACCELERATOR PEDAL POSITION (APP) SENSOR B)	Detects APP sensor B signal
47	PD SENSOR (A/C PRESSURE SENSOR)	Detects A/C pressure sensor signal
48	Not used	
49	VSP (VEHICLE SPEED SIGNAL OUTPUT)	Sends vehicle speed signal
50	CRK OUT (CRANKSHAFT POSITION (CKP) OUTPUT SIGNAL)	Sends CKP signal to engine mount control unit
51	TDC OUT (CAMSHAFT POSITION (CMP) OUTPUT SIGNAL)	Sends CMP signal to engine mount control unit

PCM Inputs and Outputs at PCM Connector B (△) (51P)



Terminal side of female terminals

Terminal number	Terminal name	Description
1	IG1(VBSOL) (POWER SOURCE FOR SOLENOID VALVES)	Power source for solenoid valves
2	Not used	
3	Not used	
4	Not used	
5	BATT FAN (12 VOLT BATTERY FAN MOTOR)	Drives 12 volt battery fan motor
6	Not used	

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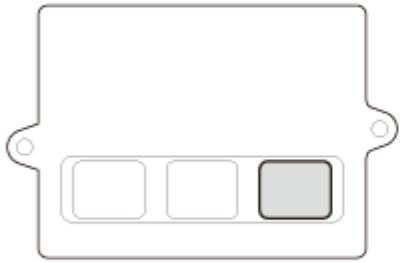
Terminal number	Terminal name	Description
7	Not used	
8	Not used	
9	Not used	
10	IGP (POWER SOURCE)	Power source for PCM
11	GND1 (POWER GROUND)	Ground for PCM
12	Not used	
13	Not used	
14	INJ Ti 1 (No. 1 INJECTOR CONTROL DRIVE SIGNAL)	No. 1 injector drive signal
15	INJ Ti 2 (No. 2 INJECTOR CONTROL DRIVE SIGNAL)	No. 2 injector drive signal
16	INJ Ti 3 (No. 3 INJECTOR CONTROL DRIVE SIGNAL)	No. 3 injector drive signal
17	INJ Ti 4 (No. 4 INJECTOR CONTROL DRIVE SIGNAL)	No. 4 injector drive signal
18	INJ Ti 5 (No. 5 INJECTOR CONTROL DRIVE SIGNAL)	No. 5 injector drive signal
19	INJ Ti 6 (No. 6 INJECTOR CONTROL DRIVE SIGNAL)	No. 6 injector drive signal
20	GND2 (POWER GROUND)	Ground for PCM
21	IGN PULSE5 (No. 5 IGNITION COIL PULSE)	Drives No. 5 ignition coil
22	IGN PULSE6 (No. 6 IGNITION COIL PULSE)	Drives No. 6 ignition coil
23	Not used	
24	Not used	
25	Not used	
26	Not used	
27	Not used	
28	Not used	
29	Not used	
30	Not used	
31	THL1 (THROTTLE POSITION (TP) SENSOR A)	Detects TP sensor A signal
32	IGN PULSE3 (No. 3 IGNITION COIL PULSE)	Drives No. 3 ignition coil
33	IGN PULSE4 (No. 4 IGNITION COIL PULSE)	Drives No. 4 ignition coil
34	Not used	
35	PF (FUEL RAIL PRESSURE SENSOR)	Detects fuel rail pressure sensor signal
36	Not used	
37	Not used	
38	Not used	
39	Not used	
40	THL2 (THROTTLE POSITION (TP) SENSOR B)	Detects TP sensor B signal
41	IGN PULSE1 (No. 1 IGNITION COIL PULSE)	Drives No. 1 ignition coil
42	IGN PULSE2 (No. 2 IGNITION COIL PULSE)	Drives No. 2 ignition coil
43	VCC2 (SENSOR VOLTAGE)	Provides sensor reference voltage
44	VCC5 (SENSOR VOLTAGE)	Provides sensor reference voltage
45	SG2 (SENSOR GROUND)	Sensor ground
46	SG5 (SENSOR GROUND)	Sensor ground
47	OP SENSOR (ENGINE OIL PRESSURE)	Detects rocker arm oil pressure sensor signal
48	Not used	
49	Not used	
50	LIN (LOCAL INTERCONNECT NETWORK)	Sends and receives communication signal

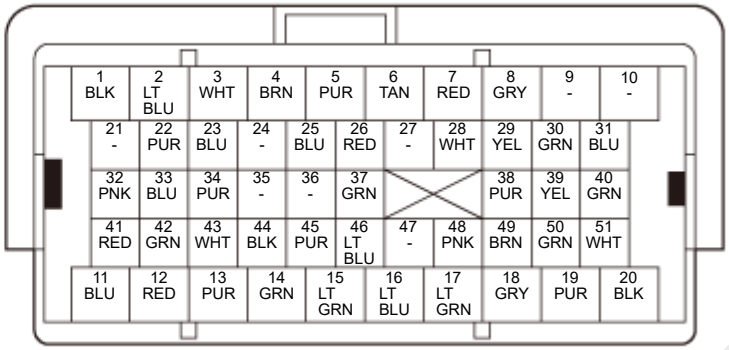
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Terminal number	Terminal name	Description
51	TDC (CAMSHAFT POSITION (CMP) SENSOR)	Detects CMP sensor signal

PCM Inputs and Outputs at PCM Connector C (○) (51P)

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Terminal side of female terminals

Terminal number	Terminal name	Description
1	PGM (POWER GROUND)	Ground for PCM
2	MTR2 (THROTTLE ACTUATOR +SIDE)	Drives throttle actuator
3	MTR1 (THROTTLE ACTUATOR -SIDE)	Ground for throttle actuator
4	IG1M (IGNITION SIGNAL ETCS)	Detects ignition signal
5	SO2HT B1 (REAR SECONDARY HEATED OXYGEN SENSOR (REAR SECONDARY HO2S (BANK 1, SENSOR 2) HEATER CONTROL)	Drives rear secondary HO2S (bank 1, sensor 2) heater
6	AFHT B1 (REAR AIR FUEL RATIO (REAR A/F) SENSOR (BANK 1, SENSOR 1) HEATER CONTROL)	Drives rear A/F sensor (bank 1, sensor 1) heater
7	SO2HT B2 (FRONT SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S (BANK 2, SENSOR 2) HEATER CONTROL)	Drives front secondary HO2S (bank 2, sensor 2) heater
8	AFHT B2 (FRONT AIR FUEL RATIO (FRONT A/F) SENSOR (BANK 2, SENSOR 1) HEATER CONTROL)	Drives front A/F sensor (bank 2, sensor 1) heater
9	Not used	
10	Not used	
11	CRK (CRANKSHAFT POSITION (CKP) SENSOR)	Detects CKP sensor signal
12	PCS (EVAPORATIVE EMISSION (EVAP) CANISTER PURGE VALVE)	Drives EVAP canister purge valve
13	E EGR (EXHAUST GAS RECIRCULATION (EGR) VALVE)	Drives EGR valve
14	CSS (ROCKER ARM OIL CONTROL SOLENOID B (BANK 1))	Drives rocker arm oil control solenoid B (bank 1)
15	VTSB1 (ROCKER ARM OIL CONTROL SOLENOID A (BANK 1))	Drives rocker arm oil control solenoid A (bank 1)
16	VTSB2 (ROCKER ARM OIL CONTROL SOLENOID A (BANK 2))	Drives rocker arm oil control solenoid A (bank 2)
17	INJF1 (INJECTOR DIAG SIGNAL1)	No. 1, No. 5 injector return signal
18	INJF2 (INJECTOR DIAG SIGNAL2)	No. 3, No. 4 injector return signal
19	INJF3 (INJECTOR DIAG SIGNAL3)	No. 2, No. 6 injector return signal
20	GND3 (POWER GROUND)	Ground for PCM
21	Not used	
22	VTMB1 (ROCKER ARM OIL PRESSURE SWITCH A (BANK 1))	Detects rocker arm oil pressure switch A (bank 1) signal
23	VTMB2 (ROCKER ARM OIL PRESSURE SWITCH A (BANK 2))	Detects rocker arm oil pressure switch A (bank 2) signal
24	Not used	
25	VSB1 (VS CELL+ BANK 1)	Detects rear A/F sensor (bank 1, sensor 1) VS CELL signal

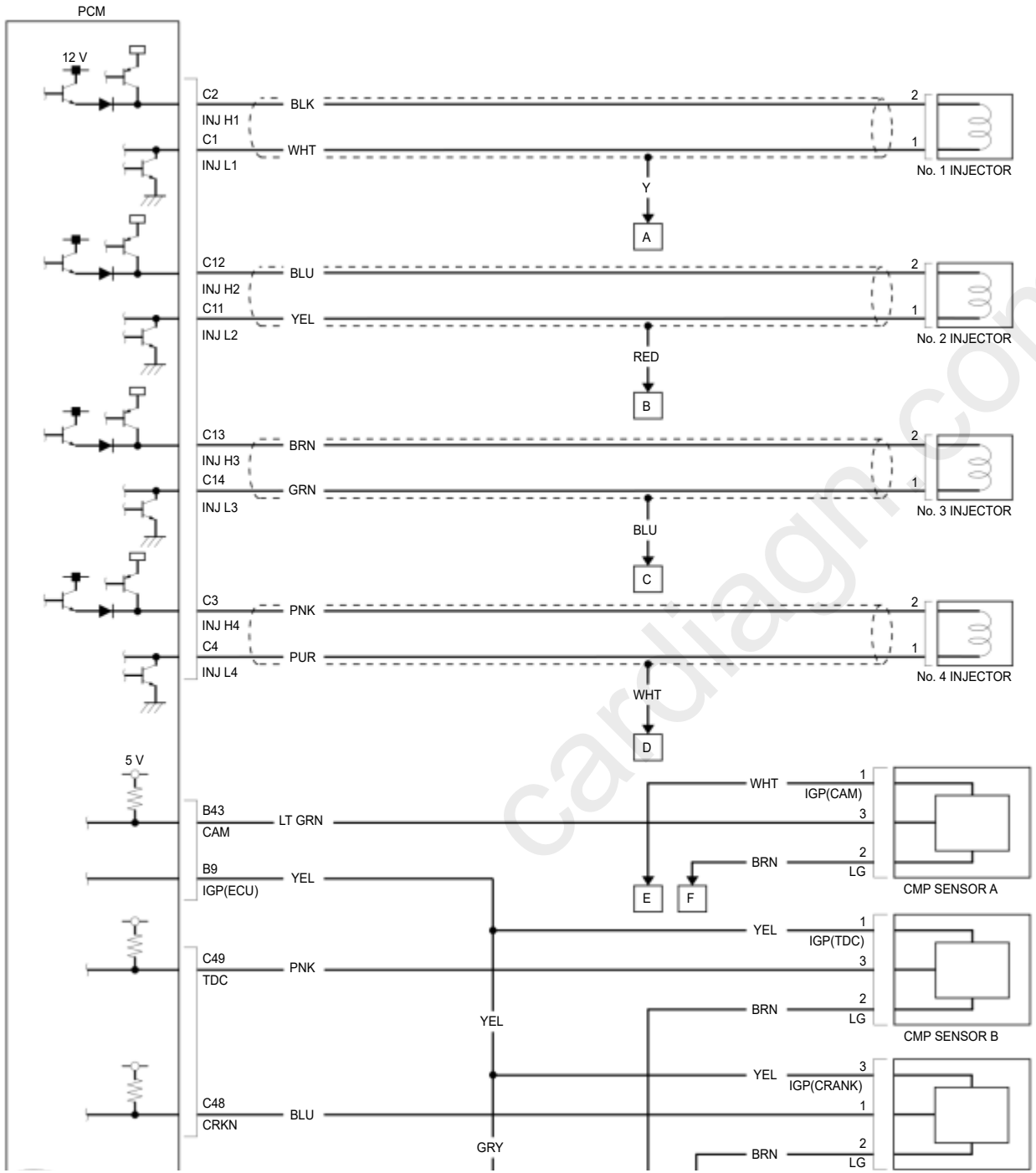
Terminal number	Terminal name	Description
26	VCENTB1 (VIRTUAL GROUND BANK 1)	Provides reference voltage for rear A/F sensor (bank 1, sensor 1)
27	Not used	
28	VSB2 (VS CELL+ BANK 2)	Detects front A/F sensor (bank 2, sensor 1) VS CELL signal
29	VCENTB2 (VIRTUAL GROUND BANK 2)	Provides reference voltage for front A/F sensor (bank 2, sensor 1)
30	SO2B1 (REAR SECONDARY HEATED OXYGEN SENSOR (REAR SECONDARY HO2S (BANK 1, SENSOR 2)))	Detects rear secondary HO2S (bank 1, sensor 2) signal

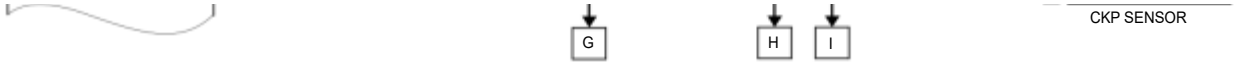
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Terminal number	Terminal name	Description
31	SO2B2 (FRONT SECONDARY HEATED OXYGEN SENSOR (FRONT SECONDARY HO2S (BANK 2, SENSOR 2)))	Detects front secondary HO2S (bank 2, sensor 2) signal
32	VCC1 (SENSOR VOLTAGE)	Provides sensor reference voltage
33	SG1 (SENSOR GROUND)	Sensor ground
34	VCMSW (ROCKER ARM OIL PRESSURE SWITCH B (BANK 1))	Detects rocker arm oil pressure switch B (bank 1) signal
35	Not used	
36	Not used	
37	IPB1 (IP CELL+ BANK 1)	Detects rear A/F sensor (bank 1, sensor 1) pump cell signal
38	IPB2 (IP CELL+ BANK 2)	Detects front A/F sensor (bank 2, sensor 1) pump cell signal
39	SO2SGB1 (REAR SECONDARY HEATED OXYGEN SENSOR (REAR SECONDARY HO2S (BANK 1, SENSOR 2)) SENSOR GROUND)	Sensor ground for rear secondary HO2S (bank 1, sensor 2)
40	SO2SGB2 (FRONT SECONDARY HEATED OXYGEN SENSOR (FRONT SECONDARY HO2S (BANK 2, SENSOR 2)) SENSOR GROUND)	Sensor ground for front secondary HO2S (bank 2, sensor 2)
41	KSB1 (KNOCK SENSOR 1 (BANK 1))	Detects knock sensor 1 (bank 1) signal
42	KSSGB1 (KNOCK SENSOR 1 (BANK 1) GROUND)	Sensor ground for knock sensor 1 (bank 1)
43	KSB2 (KNOCK SENSOR 2 (BANK 2))	Detects knock sensor 2 (bank 2) signal
44	KSSGB2 (KNOCK SENSOR 2 (BANK 2) GROUND)	Sensor ground for knock sensor 2 (bank 2)
45	PB (MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR)	Detects MAP sensor signal
46	EGRL (EXHAUST GAS RECIRCULATION (EGR) VALVE POSITION SENSOR)	Detects EGR valve position sensor signal
47	Not used	
48	TW (ENGINE COOLANT TEMPERATURE SENSOR (ECT) SENSOR 1)	Detects ECT sensor 1 signal
49	TA (INTAKE AIR TEMPERATURE (IAT) SENSOR)	Detects IAT sensor signal
50	FPF (HIGH PRESSURE FUEL PUMP)	Detects high pressure fuel pump return signal
51	HPTI (HIGH PRESSURE FUEL PUMP)	Detects high pressure fuel pump drive signal

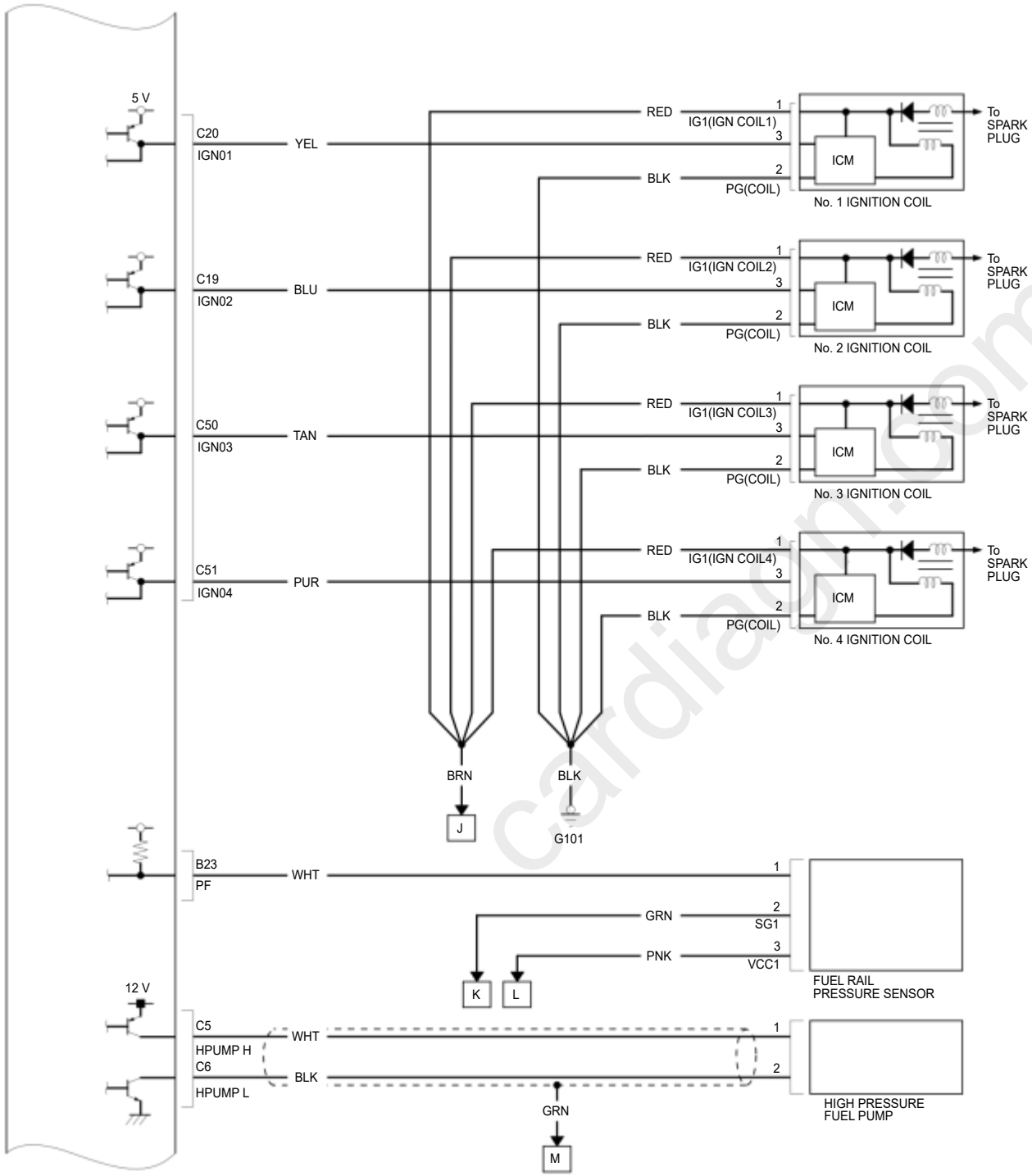
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Fuel and Emissions Systems Circuit Diagram

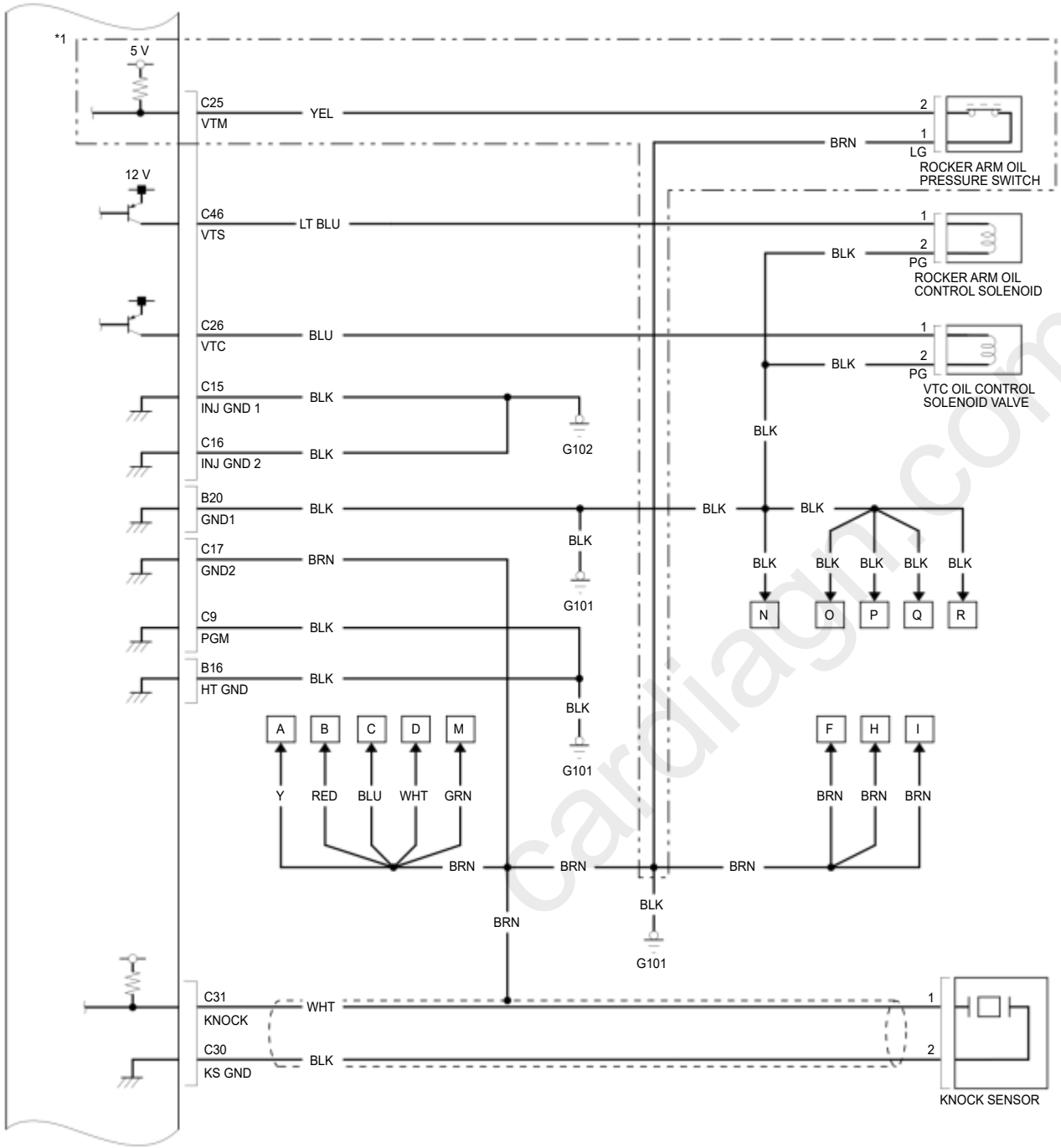




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5 V
C20
IGN01
YEL
C19
IGN02
BLU
C50
IGN03
TAN
C51
IGN04
PUR
RED
IG1(IGN COIL1)
BLK
PG(COIL)
ICM
No. 1 IGNITION COIL
IG1(IGN COIL2)
No. 2 IGNITION COIL
IG1(IGN COIL3)
No. 3 IGNITION COIL
IG1(IGN COIL4)
No. 4 IGNITION COIL
To SPARK PLUG
BRN
J
G101
B23
PF
WHT
GRN
SG1
PNK
VCC1
K
L
FUEL RAIL PRESSURE SENSOR
12 V
C5
HPUMP H
C6
HPUMP L
HIGH PRESSURE FUEL PUMP
M

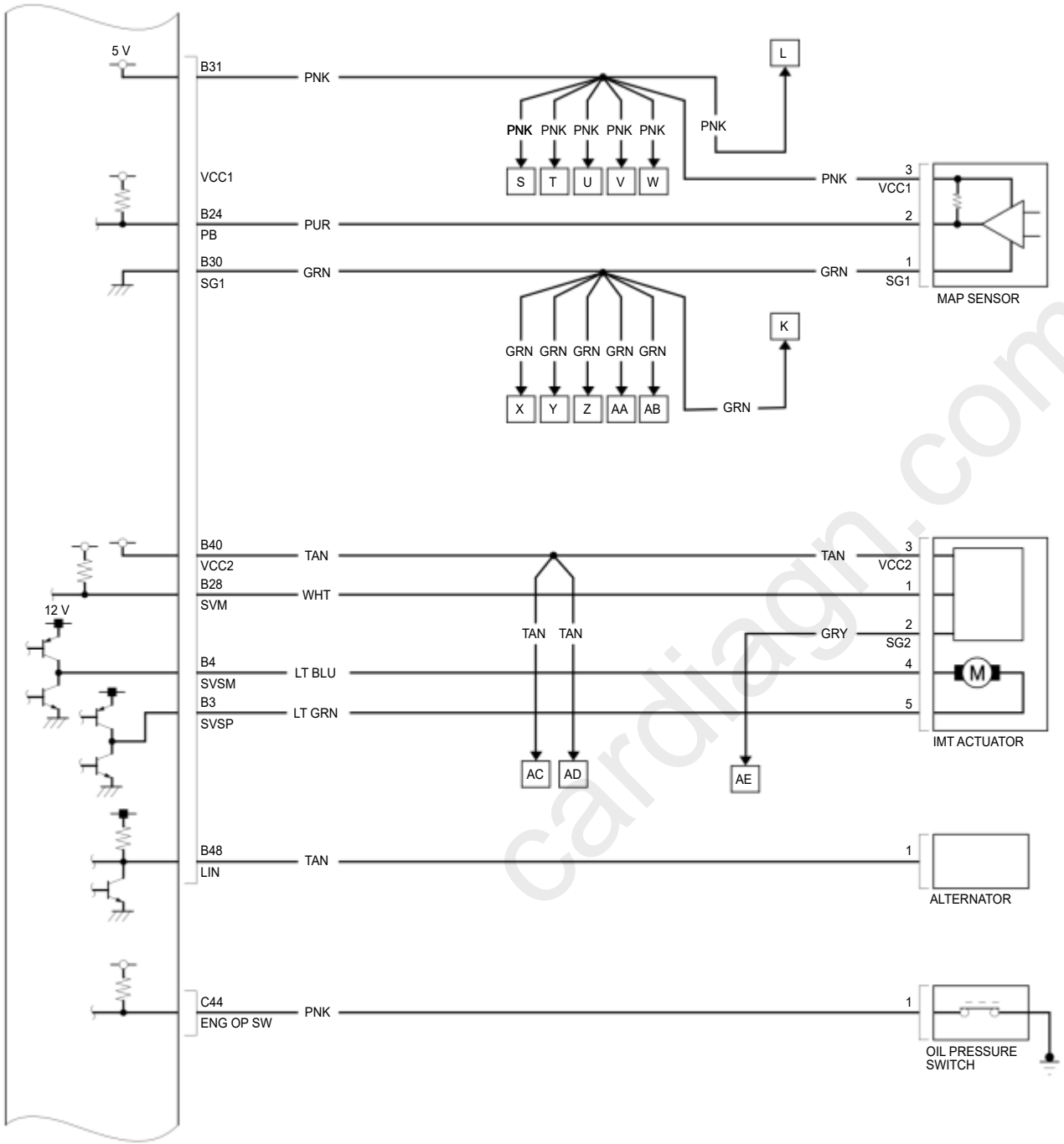
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*1: USA and Canada models

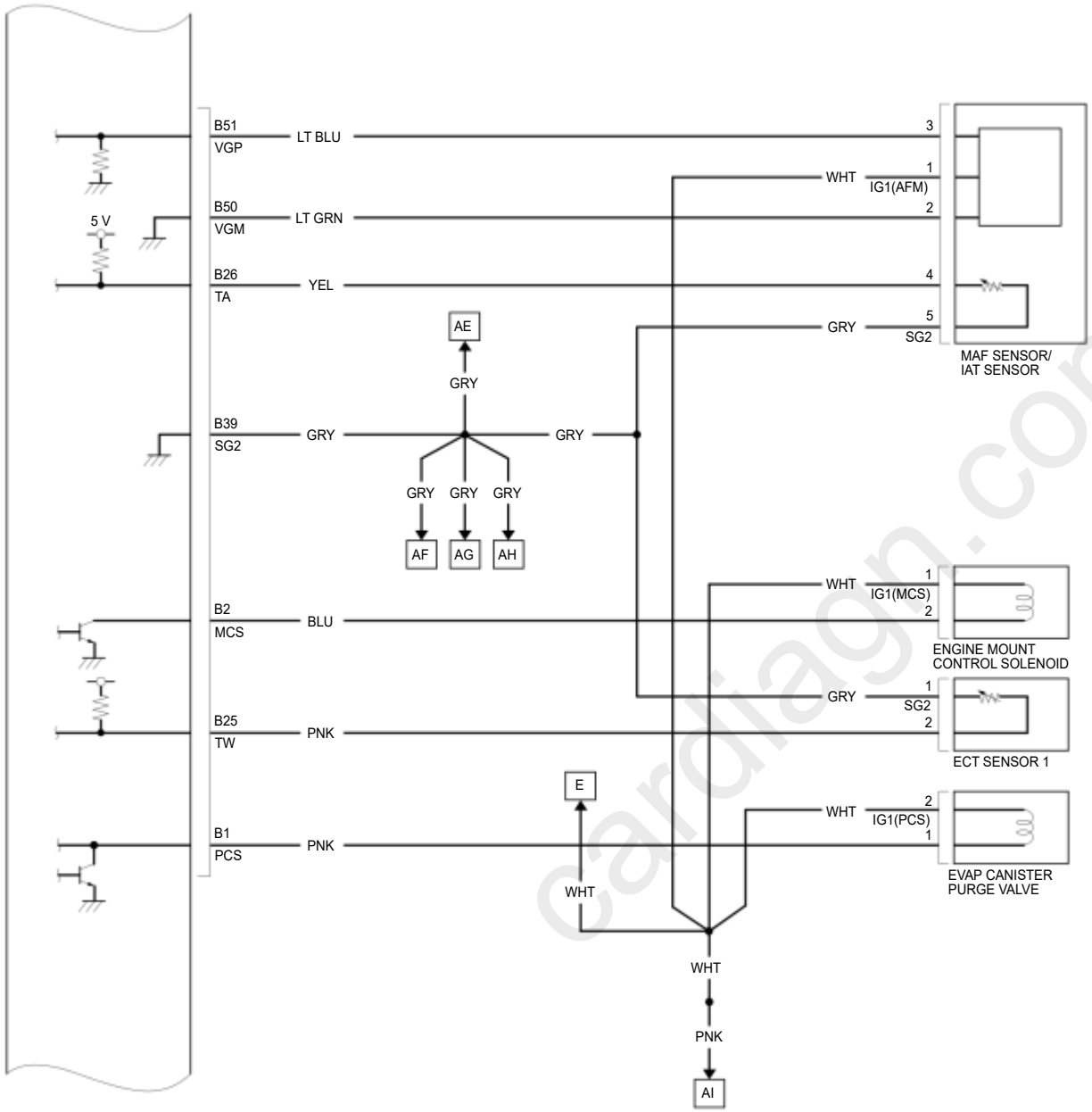
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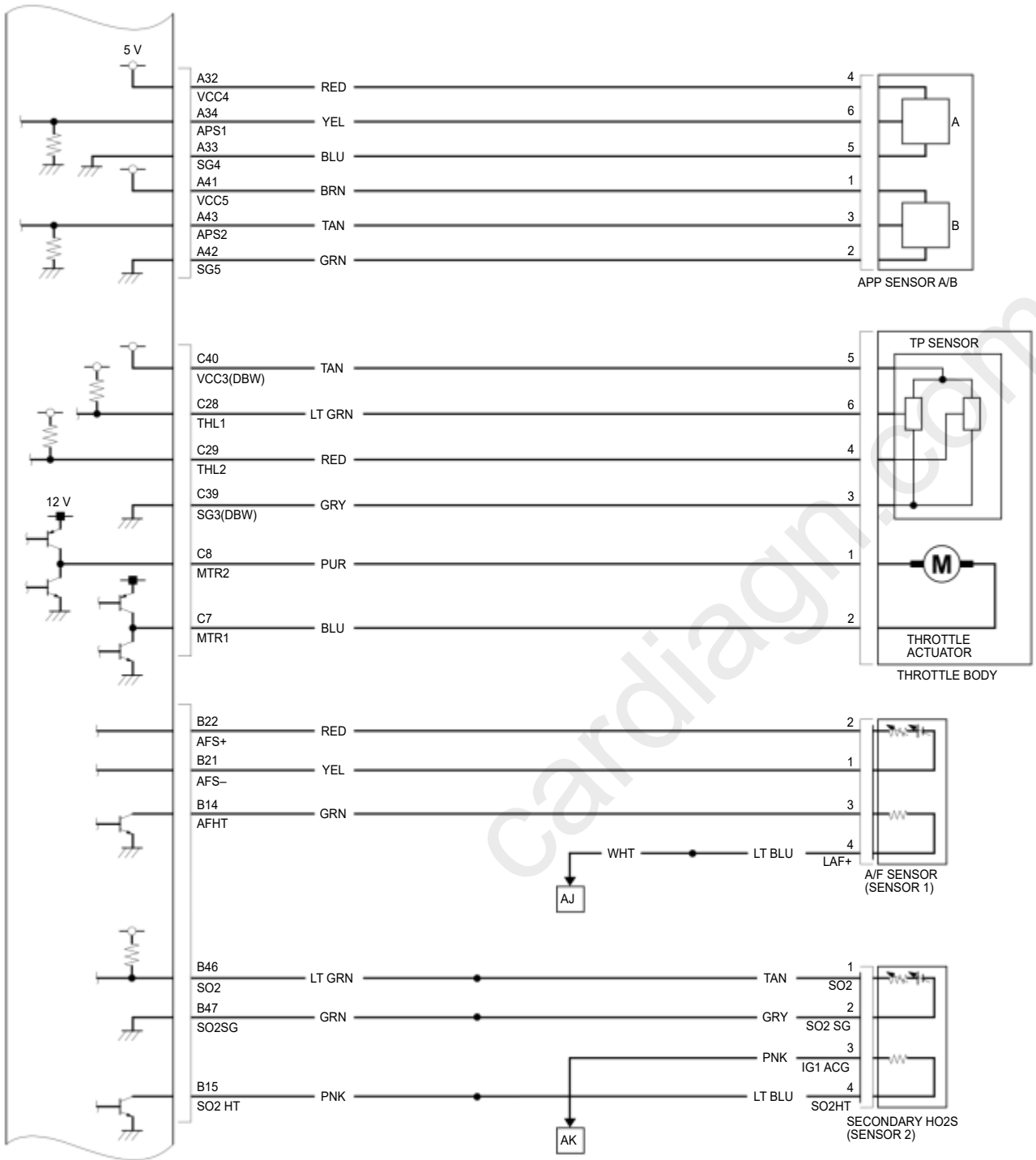
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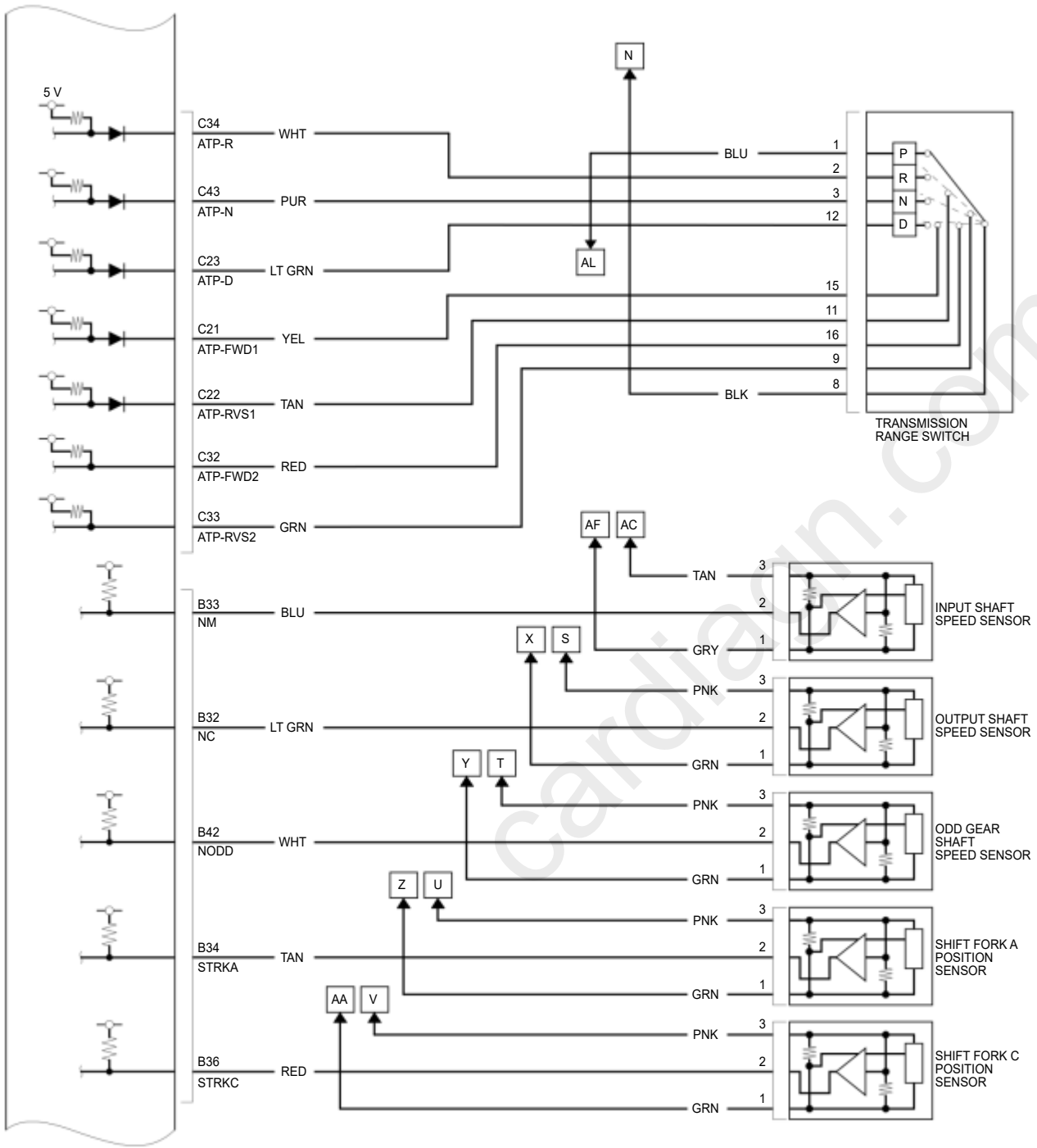
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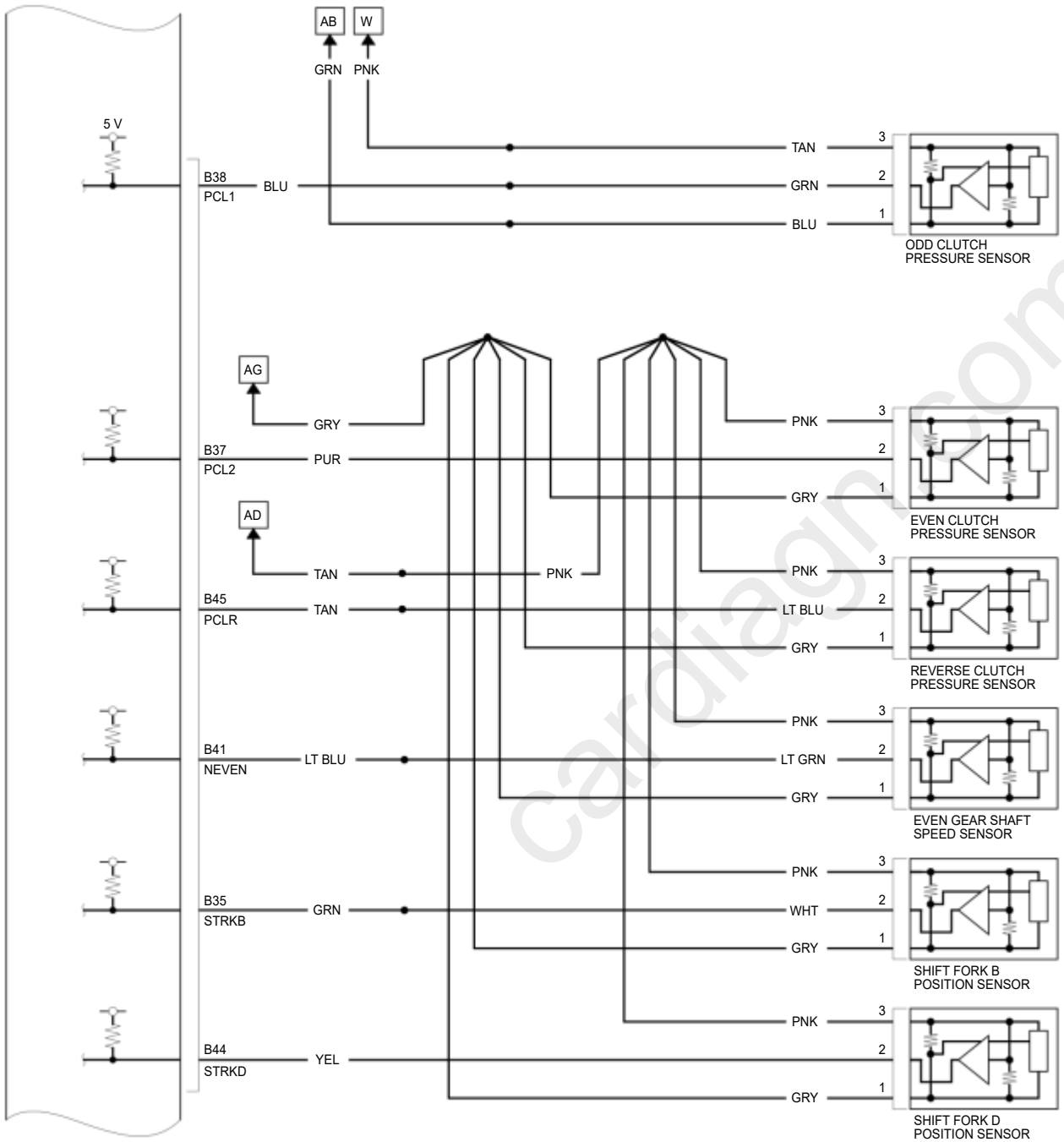


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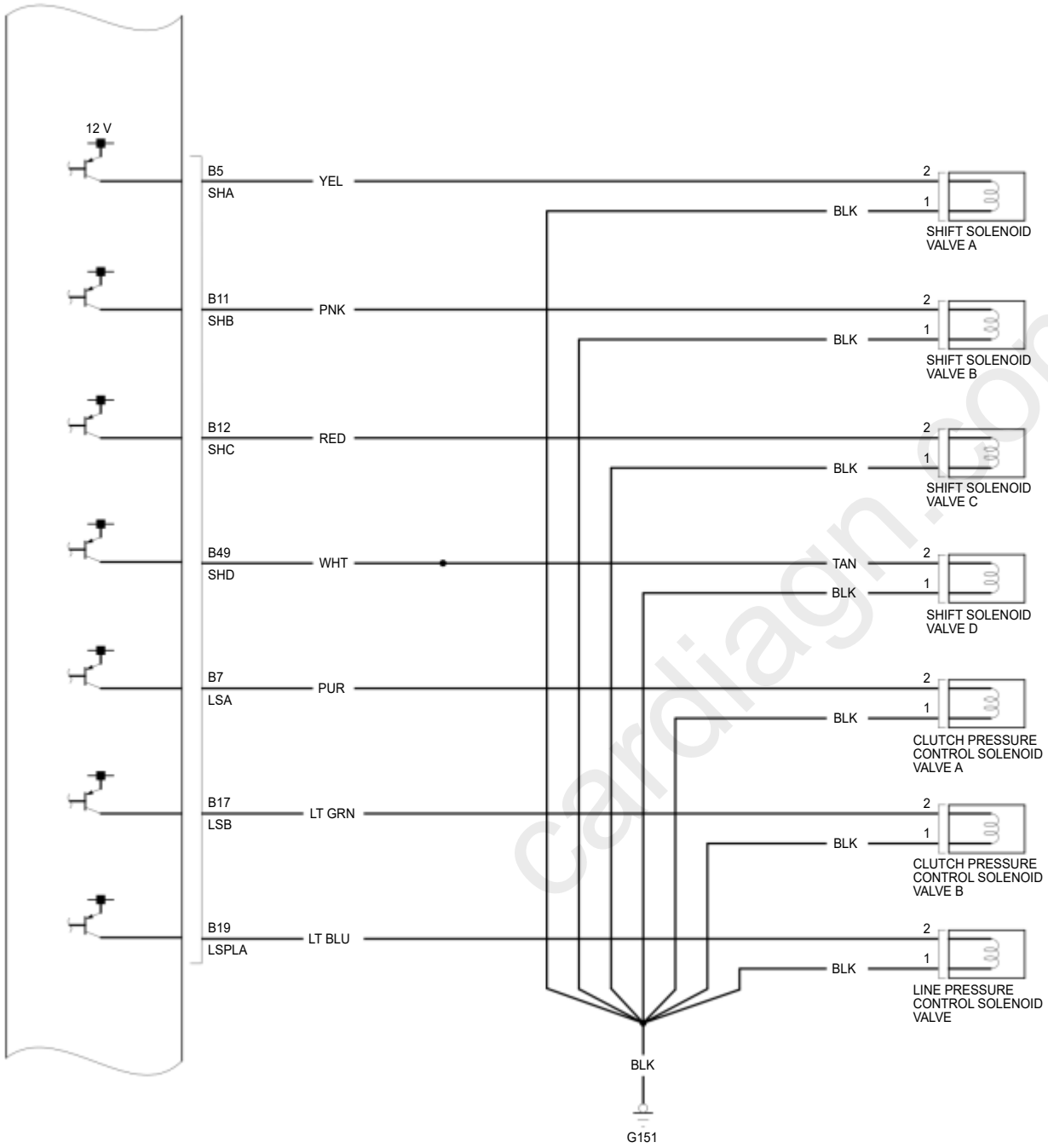
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5 V
C34
ATP-R
WHT
C43
ATP-N
PUR
C23
ATP-D
LT GRN
C21
ATP-FWD1
YEL
C22
ATP-RVS1
TAN
C32
ATP-FWD2
RED
C33
ATP-RVS2
GRN
N
AL
BLU
BLK
1
2
3
12
15
11
16
9
8
P
R
N
D
TRANSMISSION
RANGE SWITCH
AF
AC
X
S
Y
T
Z
U
AA
V
B33
NM
BLU
B32
NC
LT GRN
B42
NODD
WHT
B34
STRKA
TAN
B36
STRKC
RED
TAN
GRY
PNK
GRN
PNK
GRN
PNK
GRN
PNK
GRN
3
2
1
INPUT SHAFT
SPEED SENSOR
OUTPUT SHAFT
SPEED SENSOR
ODD GEAR
SHAFT
SPEED SENSOR
SHIFT FORK A
POSITION
SENSOR
SHIFT FORK C
POSITION
SENSOR

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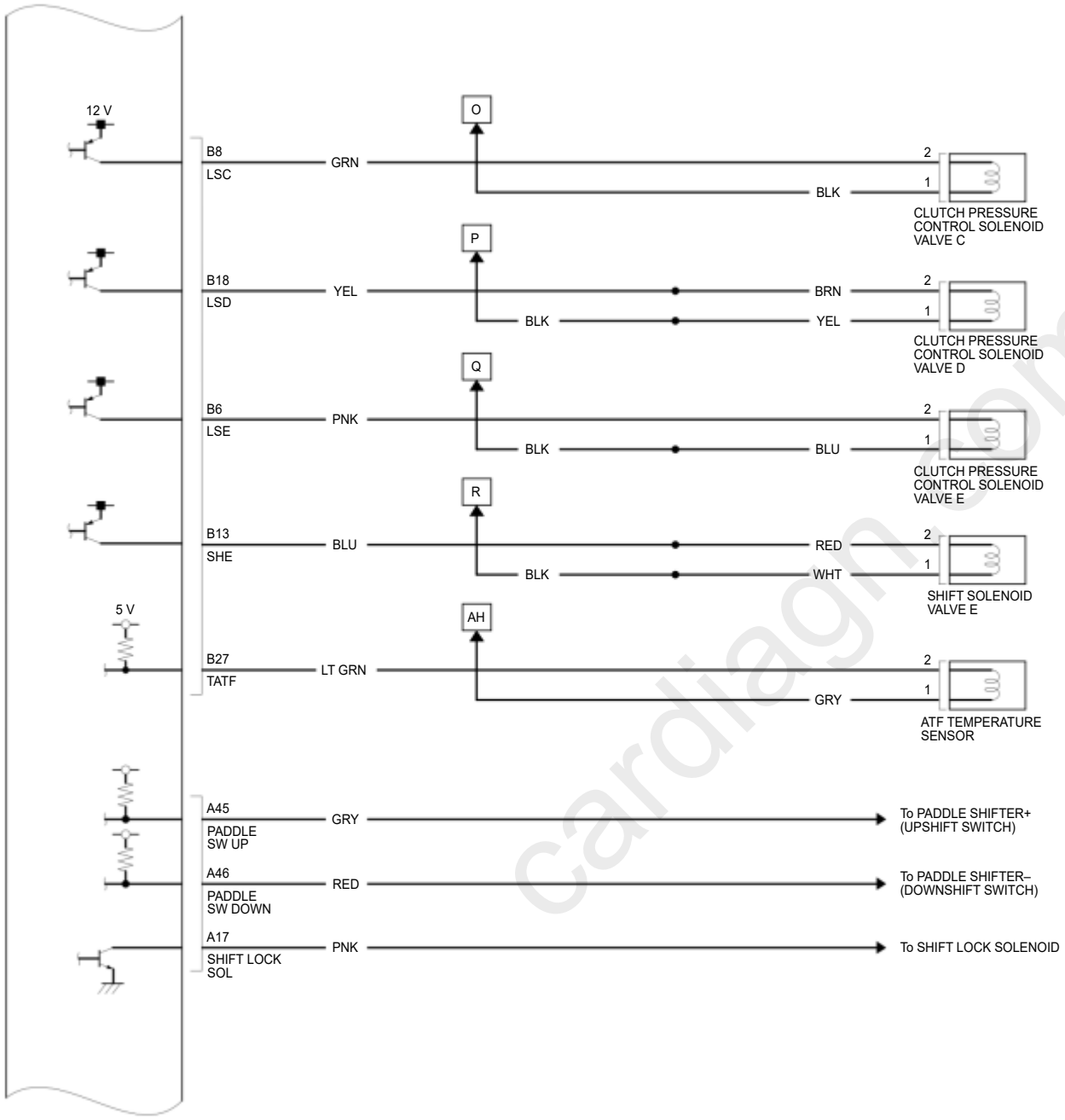

AB
W
GRN
PNK
5 V
B38
PCL1
BLU
TAN
GRN
BLU
3
2
1
ODD CLUTCH
PRESSURE SENSOR
AG
GRY
B37
PCL2
PUR
PNK
GRY
EVEN CLUTCH
PRESSURE SENSOR
AD
TAN
PNK
B45
PCLR
TAN
PNK
LT BLU
GRY
REVERSE CLUTCH
PRESSURE SENSOR
B41
NEVEN
LT BLU
PNK
LT GRN
GRY
EVEN GEAR SHAFT
SPEED SENSOR
B35
STRKB
GRN
PNK
WHT
GRY
SHIFT FORK B
POSITION SENSOR
B44
STRKD
YEL
PNK
GRY
SHIFT FORK D
POSITION SENSOR

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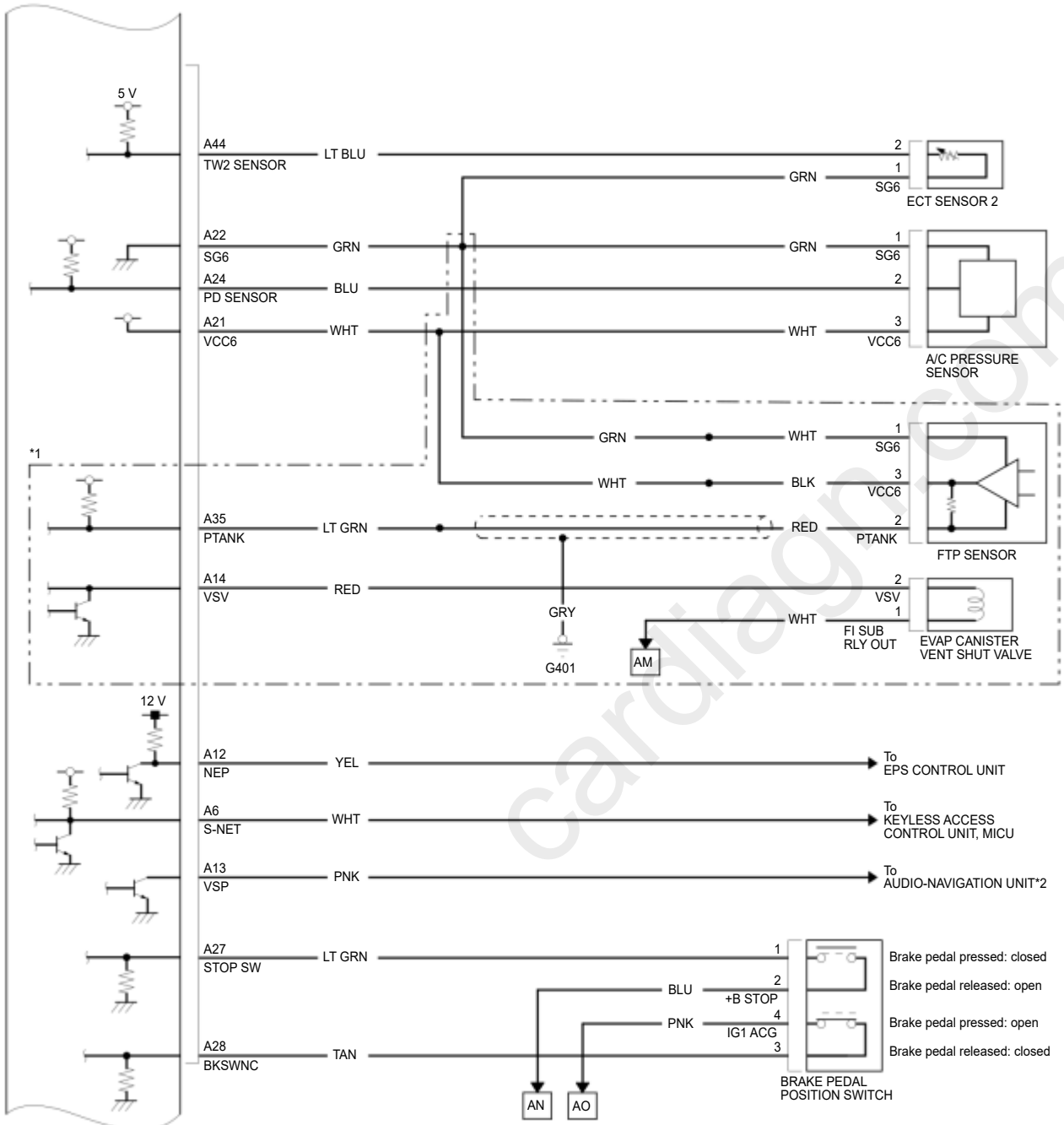
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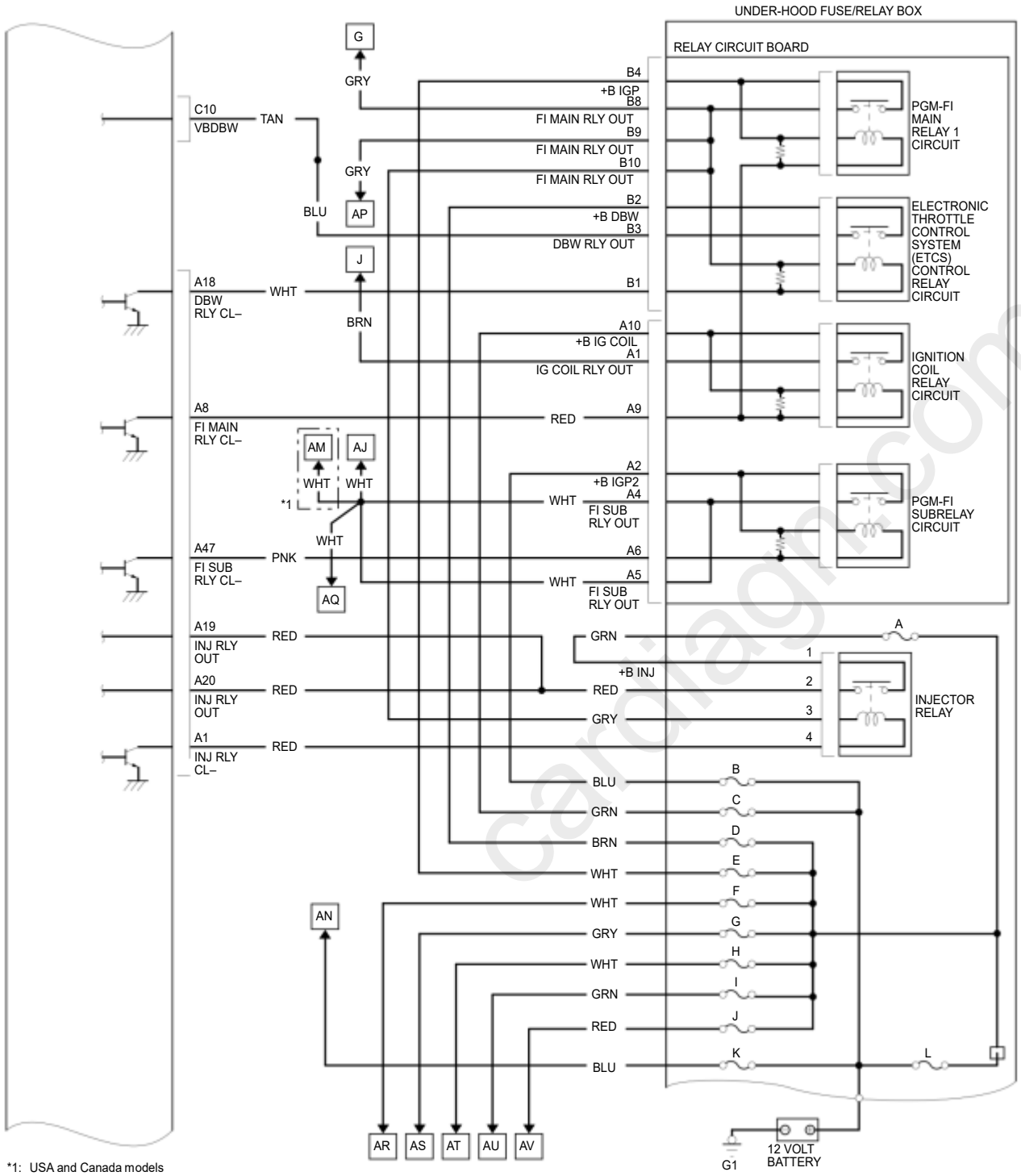
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*1: USA and Canada models
*2: With navigation

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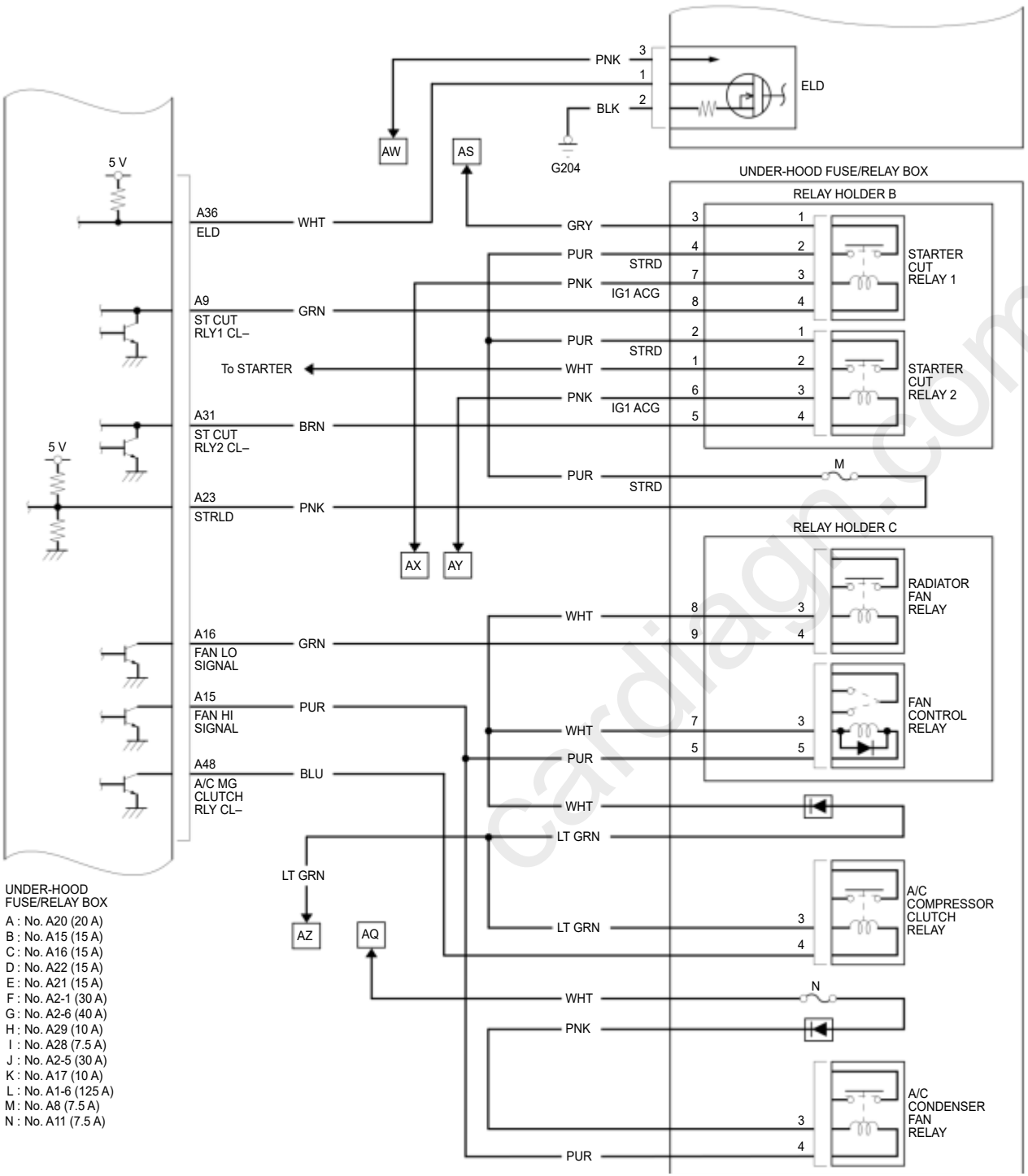
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*1: USA and Canada models

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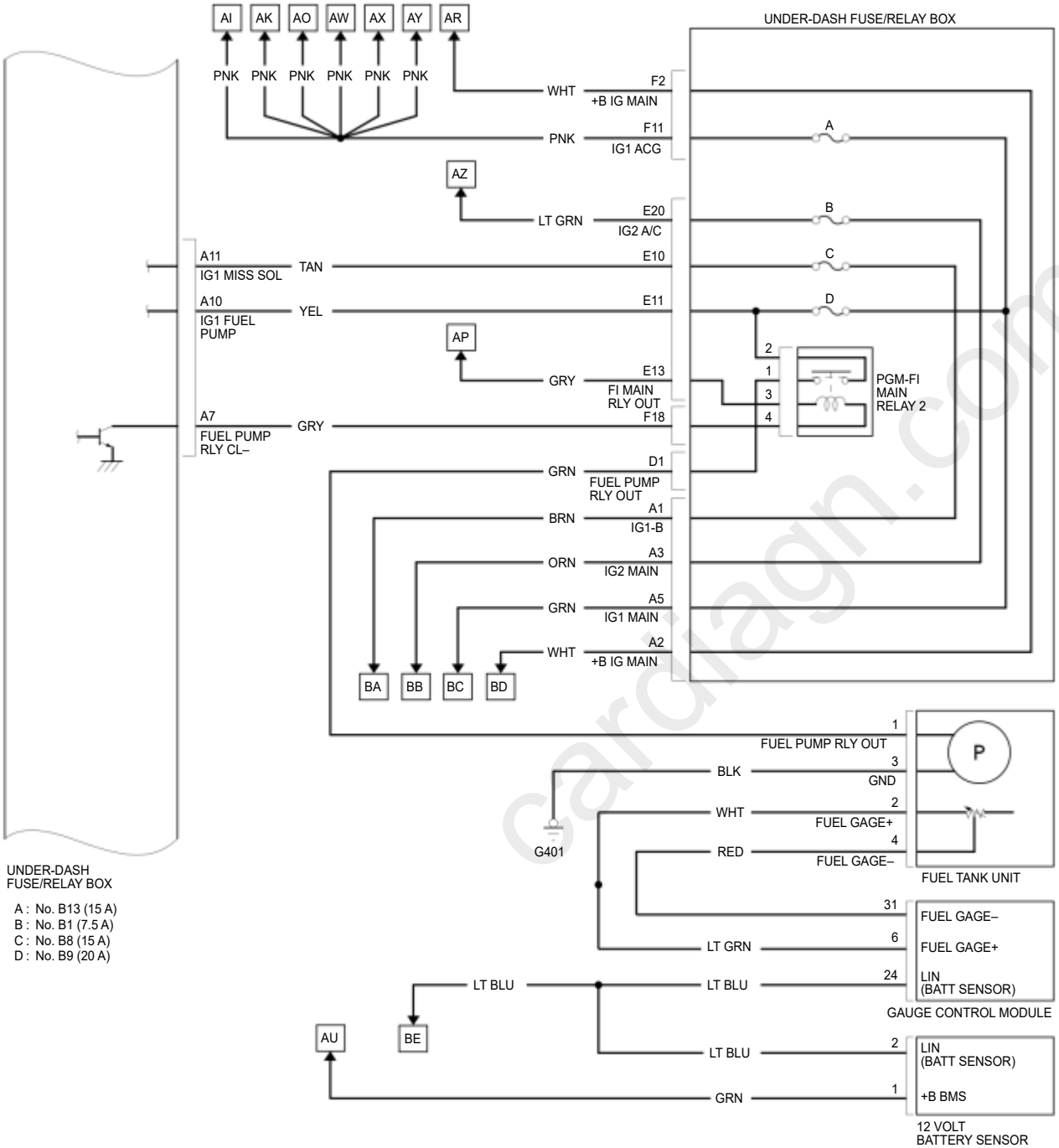


UNDER-HOOD FUSE/RELAY BOX

A : No. A20 (20 A)
B : No. A15 (15 A)
C : No. A16 (15 A)
D : No. A22 (15 A)
E : No. A21 (15 A)
F : No. A2-1 (30 A)
G : No. A2-6 (40 A)
H : No. A29 (10 A)
I : No. A28 (7.5 A)
J : No. A2-5 (30 A)
K : No. A17 (10 A)
L : No. A1-6 (125 A)
M : No. A8 (7.5 A)
N : No. A11 (7.5 A)

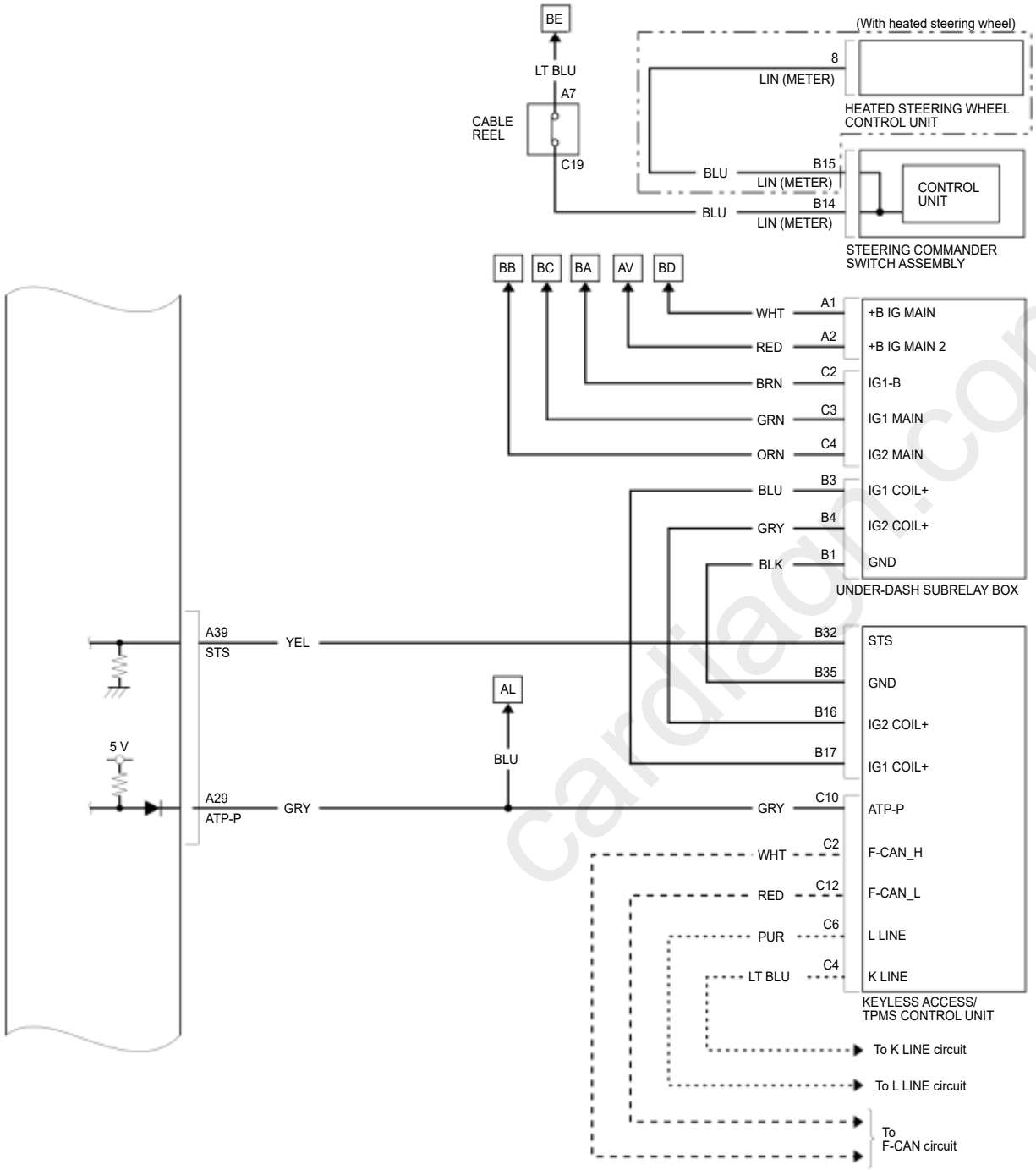
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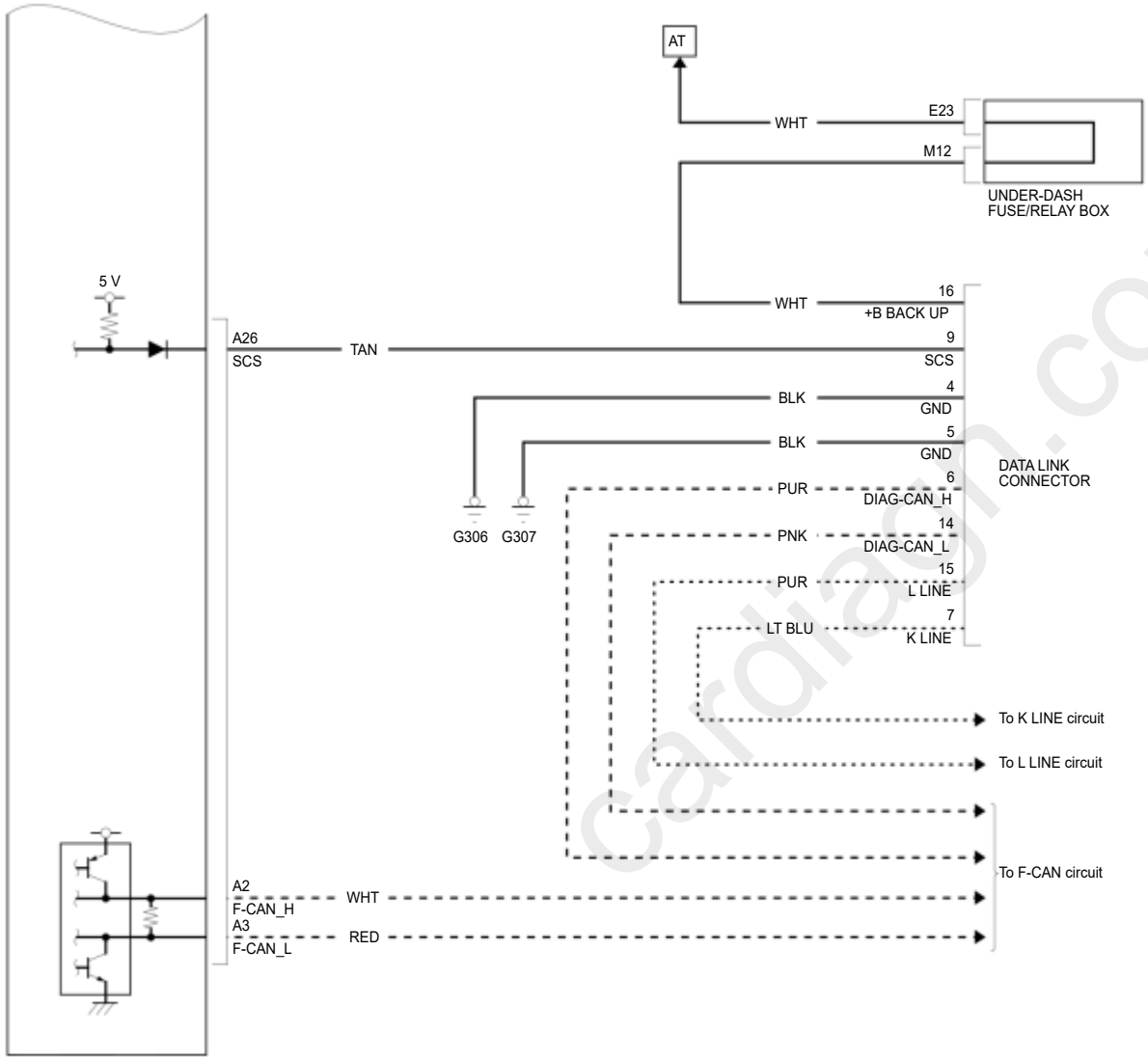


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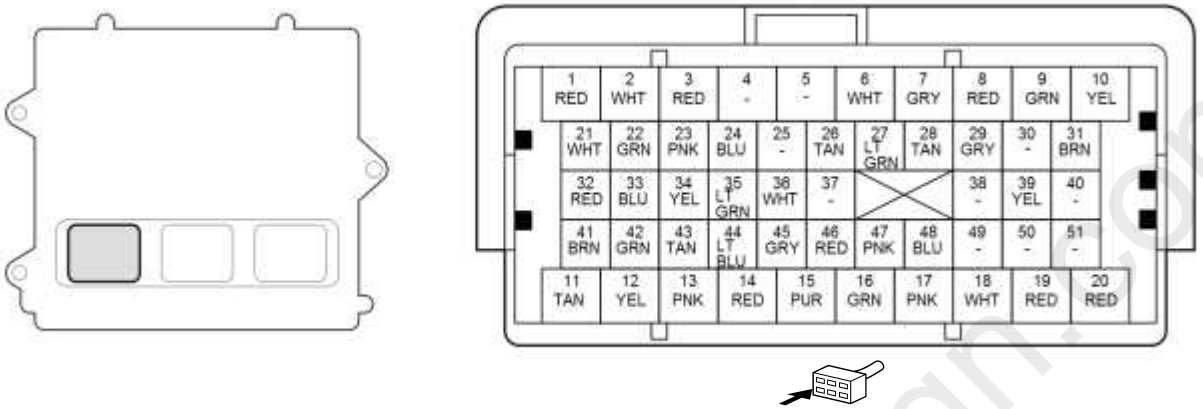
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PCM Connector for Inputs and Outputs

PCM Connector for Inputs and Outputs

Connector Index
PCM Connector A (51P)
PCM Connector B (51P)
PCM Connector C (51P)

PCM Inputs and Outputs at PCM Connector A (□) (51P) (female terminals)



Terminal number	Terminal name	Description
1	INJ RLY CL- (INJECTOR RELAY)	Drives injector relay
2	F-CAN_H (F-CAN COMMUNICATION SIGNAL HIGH)	Sends and receives communication signal
3	F-CAN_L (F-CAN COMMUNICATION SIGNAL LOW)	Sends and receives communication signal
4	Not used	
5	Not used	
6	S-NET (SERIAL COMMUNICATION FOR IMMOBILIZER)	Sends and receives communication signal
7	FUEL PUMP RLY CL- (PGM-FI MAIN RELAY 2)	Drives PGM-FI main relay 2
8	FI MAIN RLY CL- (PGMFI MAIN RELAY 1/IGNITION COIL RELAY)	Drives PGM-FI main relay 1 and ignition coil relay
9	ST CUT RLY1 CL- (STARTER CUT RELAY 1)	Drives starter cut relay 1
10	IG1 FUEL PUMP (IGNITION SIGNAL)	Detects ignition signal
11	IG1 MISS SOL (POWER SOURCE FOR SOLENOID VALVES)	Power source for solenoid valves
12	NEP (ENGINE SPEED PULSE)	Outputs engine speed pulse
13	VSP (VEHICLE SPEED SIGNAL OUTPUT)	Sends vehicle speed signal
14*1	VSV (EVAPORATIVE EMISSION (EVAP) CANISTER VENT SHUT VALVE)	Drives EVAP canister vent shut valve
15	FAN HI SIGNAL (A/C CONDENSER FAN RELAY/FAN CONTROL RELAY)	Drives A/C condenser fan relay and fan control relay
16	FAN LO SIGNAL (RADIATOR FAN RELAY)	Drives radiator fan relay
17	SHIFT LOCK SOL (SHIFT LOCK SOLENOID)	Drives shift lock solenoid
18	DBW RLY CL- (ELECTRONIC THROTTLE CONTROL SYSTEM (ETCS) CONTROL RELAY)	Drives electronic throttle control system (ETCS) control relay

Terminal number	Terminal name	Description
19	INJ RLY OUT (INJECTOR POWER SOURCE)	Power source for PCM (injector driver)
20	INJ RLY OUT (INJECTOR POWER SOURCE)	Power source for PCM (injector driver)
21	VCC6 (SENSOR VOLTAGE)	Provides sensor reference voltage
22	SG6 (SENSOR GROUND)	Sensor ground
23	STRLD (STARTER SIGNAL LOAD)	Detects starter cut relay signal
24	PD SENSOR (A/C PRESSURE SENSOR)	Detects A/C pressure sensor signal
25	Not used	
26	SCS (SERVICE CHECK SIGNAL)	Detects service check signal

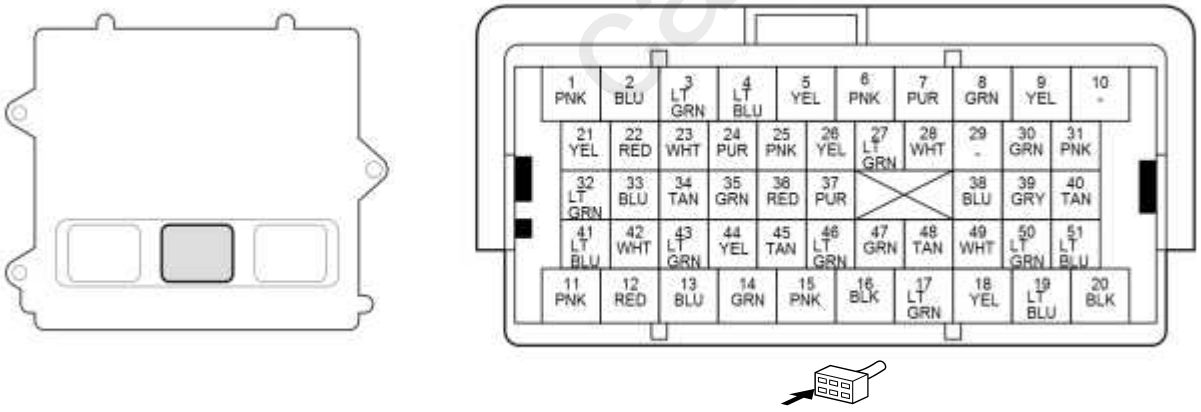
*1: USA and Canada models

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Terminal number	Terminal name	Description
27	STOP SW (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
28	BKSWNC (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
29	ATP-P (TRANSMISSION RANGE SWITCH P POSITION)	Detects transmission range switch P position signal
30	Not used	
31	ST CUT RLY2 CL- (STARTER CUT RELAY 2)	Drives starter cut relay 2
32	VCC4 (SENSOR VOLTAGE)	Provides sensor reference voltage
33	SG4 (SENSOR GROUND)	Sensor ground
34	APS1 (ACCELERATOR PEDAL POSITION (APP) SENSOR A)	Detects APP sensor A signal
35*1	PTANK (FUEL TANK PRESSURE (FTP) SENSOR)	Detects FTP sensor signal
36	ELD (ELECTRICAL LOAD DETECTOR (ELD))	Detects ELD signal
37	Not used	
38	Not used	
39	STS (STARTER SWITCH SIGNAL)	Detects starter switch signal
40	Not used	
41	VCC5 (SENSOR VOLTAGE)	Provides sensor reference voltage
42	SG5 (SENSOR GROUND)	Sensor ground
43	APS2 (ACCELERATOR PEDAL POSITION (APP) SENSOR B)	Detects APP sensor B signal
44	TW2 SENSOR (ENGINE COOLANT TEMPERATURE (ECT) SENSOR 2)	Detects ECT sensor 2 signal
45	PADDLE SW UP (PADDLE SHIFTER + (UPSHIFT SWITCH))	Detects paddle shifter + (upshift switch) signal
46	PADDLE SW DOWN (PADDLE SHIFTER - (DOWNSHIFT SWITCH))	Detects paddle shifter - (downshift switch) signal
47	FI SUB RLY CL- (PGM-FI SUBRELAY)	Drives PGM-FI subrelay
48	A/C MG CLUTCH RLY CL- (A/C COMPRESSOR CLUTCH RELAY)	Drives A/C compressor clutch relay
49	Not used	
50	Not used	
51	Not used	

*1: USA and Canada models

PCM Inputs and Outputs at PCM Connector B (△) (51P) (female terminals)



Terminal number	Terminal name	Description
1	PCS (EVAPORATIVE EMISSION (EVAP) CANISTER PURGE VALVE)	Drives EVAP canister purge valve
2	MCS (ENGINE MOUNT CONTROL SOLENOID)	Drives engine mount control solenoid
3	SVSP (INTAKE MANIFOLD TUNING (IMT) ACTUATOR +SIDE)	Drives IMT actuator
4	SVSM (INTAKE MANIFOLD TUNING (IMT) ACTUATOR -SIDE)	Drives IMT actuator
5	SHA (SHIFT SOLENOID VALVE A)	Drives shift solenoid valve A
6	LSE (CLUTCH PRESSURE CONTROL SOLENOID VALVE E)	Drives clutch pressure control solenoid valve E

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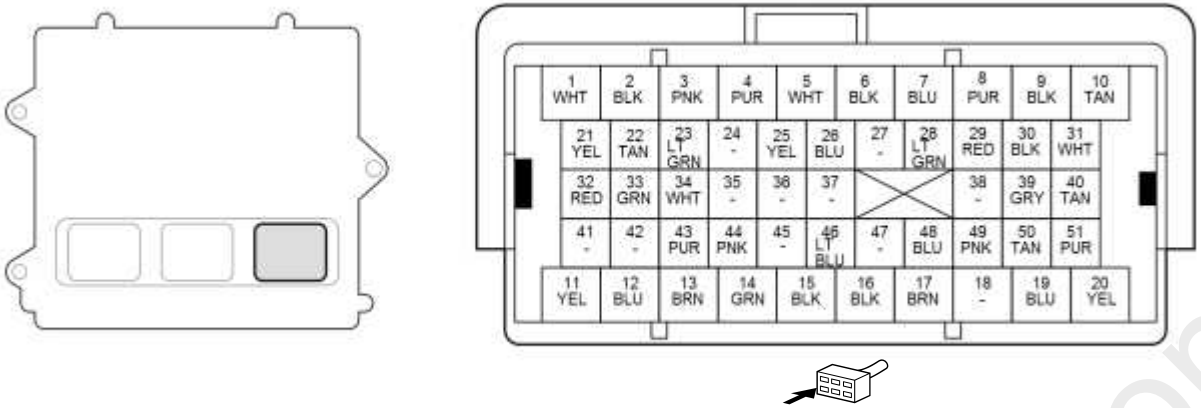
Terminal number	Terminal name	Description
7	LSA (CLUTCH PRESSURE CONTROL SOLENOID VALVE A)	Drives clutch pressure control solenoid valve A
8	LSC (CLUTCH PRESSURE CONTROL SOLENOID VALVE C)	Drives clutch pressure control solenoid valve C
9	IGP(ECU) (POWER SOURCE)	Power source for PCM
10	Not used	
11	SHB (SHIFT SOLENOID VALVE B)	Drives shift solenoid valve B
12	SHC (SHIFT SOLENOID VALVE C)	Drives shift solenoid valve C
13	SHE (SHIFT SOLENOID VALVE E)	Drives shift solenoid valve E
14	AFHT (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) HEATER CONTROL)	Drives A/F sensor (sensor 1) heater
15	SO2 HT (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S (SENSOR 2) HEATER CONTROL)	Drives secondary HO2S (sensor 2) heater
16	HT GND (POWER GROUND)	Ground for PCM
17	LSB (CLUTCH PRESSURE CONTROL SOLENOID VALVE B)	Drives clutch pressure control solenoid valve B
18	LSD (CLUTCH PRESSURE CONTROL SOLENOID VALVE D)	Drives clutch pressure control solenoid valve D
19	LSPLA (LINE PRESSURE CONTROL SOLENOID VALVE)	Drives line pressure control solenoid valve
20	GND1 (POWER GROUND)	Ground for PCM
21	AFS- (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) -SIDE)	Detects A/F sensor (sensor 1) signal
22	AFS+ (AIR FUEL RATIO (A/F) SENSOR (SENSOR 1) +SIDE)	Detects A/F sensor (sensor 1) signal
23	PF (FUEL RAIL PRESSURE SENSOR)	Detects fuel rail pressure sensor signal
24	PB (MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR)	Detects MAP sensor signal
25	TW (ENGINE COOLANT TEMPERATURE SENSOR (ECT) SENSOR 1)	Detects ECT sensor 1 signal
26	TA (INTAKE AIR TEMPERATURE (IAT) SENSOR)	Detects IAT sensor signal
27	TATF (ATF TEMPERATURE SENSOR)	Detects ATF temperature sensor signal
28	SVM (INTAKE MANIFOLD TUNING (IMT) ACTUATOR SENSOR)	Detects IMT actuator sensor signal
29	Not used	
30	SG1 (SENSOR GROUND)	Sensor ground
31	VCC1 (SENSOR VOLTAGE)	Provides sensor reference voltage
32	NC (OUTPUT SHAFT SPEED SENSOR)	Detects output shaft speed sensor signal
33	NM (INPUT SHAFT SPEED SENSOR)	Detects input shaft speed sensor signal
34	STRKA (SHIFT FORK A POSITION SENSOR)	Detects shift fork A position sensor signal
35	STRKB (SHIFT FORK B POSITION SENSOR)	Detects shift fork B position sensor signal
36	STRKC (SHIFT FORK C POSITION SENSOR)	Detects shift fork C position sensor signal
37	PCL2 (EVEN CLUTCH PRESSURE SENSOR)	Detects EVEN clutch pressure sensor signal
38	PCL1 (ODD CLUTCH PRESSURE SENSOR)	Detects ODD clutch pressure sensor signal
39	SG2 (SENSOR GROUND)	Sensor ground
40	VCC2 (SENSOR VOLTAGE)	Provides sensor reference voltage
41	NEVEN (EVEN GEAR SHAFT SPEED SENSOR)	Detects even gear shaft speed sensor signal
42	NODD (ODD GEAR SHAFT SPEED SENSOR)	Detects odd gear shaft speed sensor signal
43	CAM (CAMSHAFT POSITION (CMP) SENSOR A)	Detects CMP sensor A signal
44	STRKD (SHIFT FORK D POSITION SENSOR)	Detects shift fork D position sensor signal
45	PCLR (REVERSE CLUTCH PRESSURE SENSOR)	Detects reverse clutch pressure sensor signal
46	SO2 (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S) (SENSOR 2))	Detects secondary HO2S (sensor 2) signal
47	SO2SG (SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S (SENSOR 2) SENSOR GROUND)	Sensor ground for secondary HO2S (sensor 2)

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Terminal number	Terminal name	Description
48	LIN (LOCAL INTERCONNECT NETWORK)	Sends and receives communication signal
49	SHD (SHIFT SOLENOID VALVE D)	Drives shift solenoid valve D
50	VGM (MASS AIR FLOW (MAF) SENSOR -SIDE)	Ground for MAF sensor signal
51	VGP (MASS AIR FLOW (MAF) SENSOR +SIDE)	Detects MAF sensor signal

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PCM Inputs and Outputs at PCM Connector C (○) (51P) (female terminals)



Terminal number	Terminal name	Description
1	INJ L1 (No. 1 INJECTOR -)	Drives No. 1 injector
2	INJ H1 (No. 1 INJECTOR +)	Drives No. 1 injector
3	INJ H4 (No. 4 INJECTOR +)	Drives No. 4 injector
4	INJ L4 (No. 4 INJECTOR -)	Drives No. 4 injector
5	HPUMP H (HIGH PRESSURE FUEL PUMP +)	Drives fuel control solenoid (build into high pressure fuel pump)
6	HPUMP L (HIGH PRESSURE FUEL PUMP -)	Drives fuel control solenoid (build into high pressure fuel pump)
7	MTR1 (THROTTLE ACTUATOR -SIDE)	Ground for throttle actuator
8	MTR2 (THROTTLE ACTUATOR +SIDE)	Drives throttle actuator
9	PGM (POWER GROUND)	Ground for PCM
10	VBDBW (IGNITION SIGNAL ETCS)	Detects ignition signal
11	INJ L2 (No. 2 INJECTOR -)	Drives No. 2 injector
12	INJ H2 (No. 2 INJECTOR +)	Drives No. 2 injector
13	INJ H3 (No. 3 INJECTOR +)	Drives No. 3 injector
14	INJ L3 (No. 3 INJECTOR -)	Drives No. 3 injector
15	INJ GND 1 (INJECTOR GROUND)	Ground for PCM (injector driver)
16	INJ GND 2 (INJECTOR GROUND)	Ground for PCM (injector driver)
17	GND2 (POWER GROUND)	Ground for PCM
18	Not used	
19	IGN02 (No. 2 IGNITION COIL PULSE)	Drives No. 2 ignition coil
20	IGN01 (No. 1 IGNITION COIL PULSE)	Drives No. 1 ignition coil
21	ATP-FWD1 (TRANSMISSION RANGE SWITCH FWD 1 POSITION)	Detects transmission range switch D position signal
22	ATP-RVS1 (TRANSMISSION RANGE SWITCH RVS 1 POSITION)	Detects transmission range switch R position signal
23	ATP-D (TRANSMISSION RANGE SWITCH D POSITION)	Detects transmission range switch D position signal
24	Not used	
25*1	VTM (ROCKER ARM OIL PRESSURE SWITCH)	Detects rocker arm oil pressure switch signal

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Terminal number	Terminal name	Description
26	VTC (VTC OIL CONTROL SOLENOID VALVE)	Drives VTC oil control solenoid valve
27	Not used	
28	THL1 (THROTTLE POSITION (TP) SENSOR A)	Detects TP sensor A signal
29	THL2 (THROTTLE POSITION (TP) SENSOR B)	Detects TP sensor B signal
30	KS GND (KNOCK SENSOR GROUND)	Sensor ground for knock sensor
31	KNOCK (KNOCK SENSOR)	Detects knock sensor signal
32	ATP-FWD2 (TRANSMISSION RANGE SWITCH FWD 2 POSITION)	Detects transmission range switch D position signal
33	ATP-RVS2 (TRANSMISSION RANGE SWITCH RVS 2 POSITION)	Detects transmission range switch R position signal

*1: USA and Canada models

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Terminal number	Terminal name	Description
34	ATP-R (TRANSMISSION RANGE SWITCH R POSITION)	Detects transmission range switch R position signal
35	Not used	
36	Not used	
37	Not used	
38	Not used	
39	SG3(DBW) (SENSOR GROUND)	Ground for PCM (TP sensor)
40	VCC3(DBW) (SENSOR VOLTAGE)	Provides sensor reference voltage (TP sensor)
41	Not used	
42	Not used	
43	ATP-N (TRANSMISSION RANGE SWITCH N POSITION)	Detects transmission range switch N position signal
44	ENG OP SW (OIL PRESSURE SWITCH)	Detects engine oil pressure switch signal
45	Not used	
46	VTS (ROCKER ARM OIL CONTROL SOLENOID)	Drives rocker arm oil control solenoid
47	Not used	
48	CRKN (CRANKSHAFT POSITION (CKP) SENSOR)	Detects CKP sensor signal
49	TDC (CAMSHAFT POSITION (CMP) SENSOR B)	Detects CMP sensor B signal
50	IGN03 (No. 3 IGNITION COIL PULSE)	Drives No. 3 ignition coil
51	IGN04 (No. 4 IGNITION COIL PULSE)	Drives No. 4 ignition coil

*1: USA and Canada models

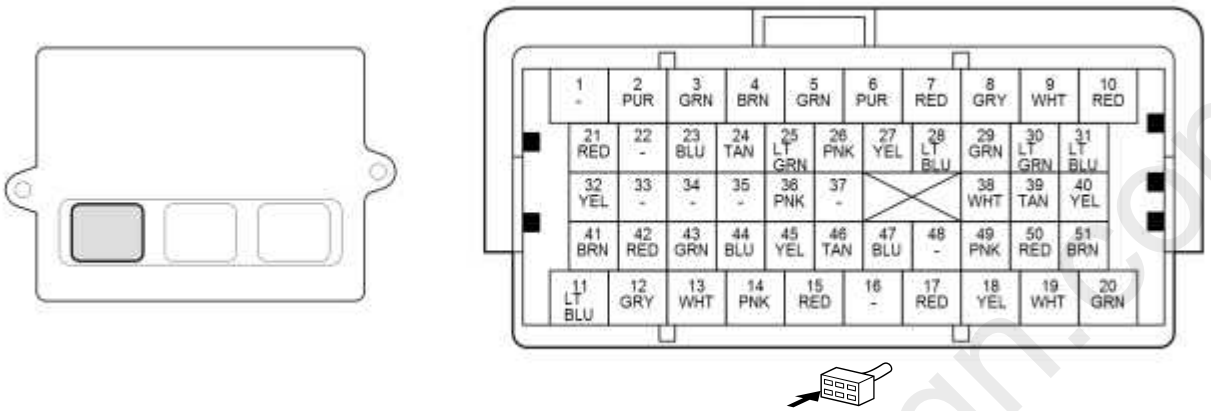
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PCM Connector for Inputs and Outputs

PCM Connector for Inputs and Outputs

Connector Index
PCM Connector A (51P)
PCM Connector B (51P)
PCM Connector C (51P)

PCM Inputs and Outputs at PCM Connector A (□) (51P) (female terminals)



Terminal number	Terminal name	Description
1	Not used	
2*1	CST	Detects signal from DC-DC converter
3	ST CUT RLY1 CL- (STARTER CUT RELAY 1)	Drives starter cut relay 1
4	ST CUT RLY2 CL- (STARTER CUT RELAY 2)	Drives starter cut relay 2
5	FAN LO SIGNAL (A/C CONDENSER FAN RELAY)	Drives A/C condenser fan relay
6	FAN HI SIGNAL (RADIATOR FAN RELAY/FAN CONTROL RELAY)	Drives radiator fan relay and fan control relay
7	FI MAIN RLY CL- (PGM-FI MAIN RELAY 1/IGNITION COIL RELAY)	Drives PGM-FI main relay 1 and ignition coil relay
8	FUEL PUMP RLY CL- (PGM-FI MAIN RELAY 2)	Drives PGM-FI main relay 2
9	F-CAN A_H (F-CAN COMMUNICATION A SIGNAL HIGH)	Sends and receives communication signal
10	F-CAN A_L (F-CAN COMMUNICATION A SIGNAL LOW)	Sends and receives communication signal
11	F-CAN B_H (F-CAN COMMUNICATION B SIGNAL HIGH)	Sends and receives communication signal
12	F-CAN B_L (F-CAN COMMUNICATION B SIGNAL LOW)	Sends and receives communication signal
13	DBW RLY CL- (ELECTRONIC THROTTLE CONTROL SYSTEM (ETCS) CONTROL RELAY)	Drives electronic throttle control system (ETCS) control relay
14	FI SUB RLY CL- (PGM-FI SUBRELAY)	Drives PGM-FI subrelay
15*2	VSV (EVAPORATIVE EMISSION (EVAP) CANISTER VENT SHUT VALVE)	Drives EVAP canister vent shut valve
16	Not used	
17	INJ RLY CL- (INJECTOR RELAY)	Drives injector relay
18	IG1 FUEL PUMP (IGNITION SIGNAL)	Detects ignition signal

Terminal number	Terminal name	Description
19	VCC6 (SENSOR VOLTAGE)	Provides sensor reference voltage
20	SG6 (SENSOR GROUND)	Sensor ground
21	VGM (MASS AIR FLOW (MAF) SENSOR -SIDE)	Ground for MAF sensor signal
22	Not used	
23	A/C MG CLUTCH RLY CL- (A/C COMPRESSOR CLUTCH RELAY)	Drives A/C compressor clutch relay
24	BKSWNC (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
25	STOP SW (BRAKE PEDAL POSITION SWITCH)	Detects brake pedal position switch signal
26	STRLD (STARTER SIGNAL LOAD)	Detects starter cut relay signal

*1: With auto idle stop system
*2: USA and Canada models
*3: With navigation

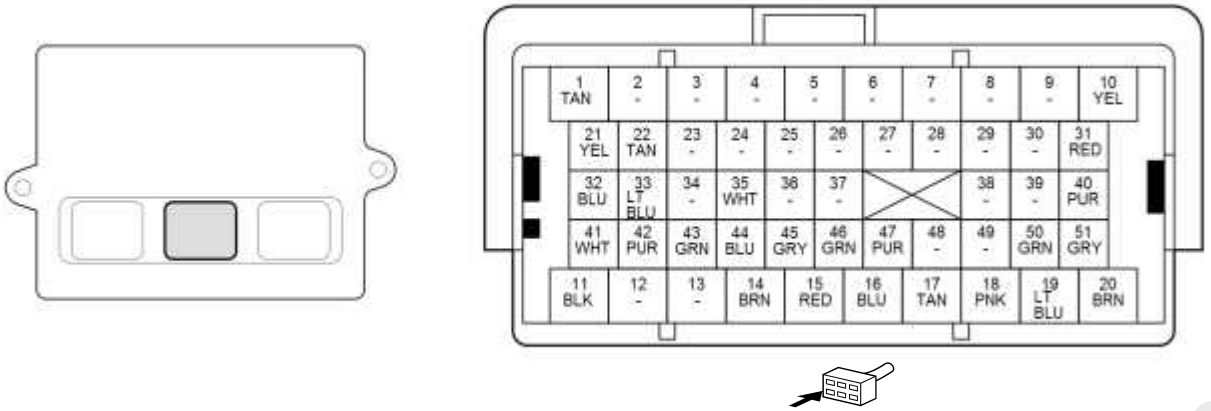
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Terminal number	Terminal name	Description
27	STS (STARTER SWITCH SIGNAL)	Detects starter switch signal
28	FPCD (FUEL PUMP CONTROL MODULE DIAGNOSIS)	Detects fuel pump control module diagnosis signal
29	FPC (FUEL PUMP CONTROL)	Sends fuel pump control module control signal
30*2	PTANK (FUEL TANK PRESSURE (FTP) SENSOR)	Detects FTP sensor signal
31	TW2 SENSOR (ENGINE COOLANT TEMPERATURE (ECT) SENSOR 2)	Detects ECT sensor 2 signal
32	VGP (MASS AIR FLOW (MAF) SENSOR +SIDE)	Detects MAF sensor signal
33	Not used	
34	Not used	
35	Not used	
36*1	MAP SNSR BRAKE VOUT	Detects brake booster pressure sensor signal
37	Not used	
38	S-NET (SERIAL COMMUNICATION FOR IMMOBILIZER)	Sends and receives communication signal
39	SCS (SERVICE CHECK SIGNAL)	Detects service check signal
40	NEP (ENGINE SPEED PULSE)	Outputs engine speed pulse
41	VCC3 (SENSOR VOLTAGE)	Provides sensor reference voltage
42	VCC4 (SENSOR VOLTAGE)	Provides sensor reference voltage
43	SG3 (SENSOR GROUND	Sensor ground
44	SG4 (SENSOR GROUND)	Sensor ground
45	APS1 (ACCELERATOR PEDAL POSITION (APP) SENSOR A)	Detects APP sensor A signal
46	APS2 (ACCELERATOR PEDAL POSITION (APP) SENSOR B)	Detects APP sensor B signal
47	PD SENSOR (A/C PRESSURE SENSOR)	Detects A/C pressure sensor signal
48	Not used	
49*3	VSP (VEHICLE SPEED SIGNAL OUTPUT)	Sends vehicle speed signal
50	CRK OUT (CRANKSHAFT POSITION (CKP) OUTPUT SIGNAL)	Sends CKP signal to engine mount control unit
51	TDC OUT (CAMSHAFT POSITION (CMP) OUTPUT SIGNAL)	Sends CMP signal to engine mount control unit

*1: With auto idle stop system
*2: USA and Canada models
*3: With navigation

PCM Inputs and Outputs at PCM Connector B (△) (51P) (female terminals)

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Terminal number	Terminal name	Description
1	IG1(VBSOL) (POWER SOURCE FOR SOLENOID VALVES)	Power source for solenoid valves
2	Not used	
3	Not used	
4	Not used	
5	Not used	
6	Not used	

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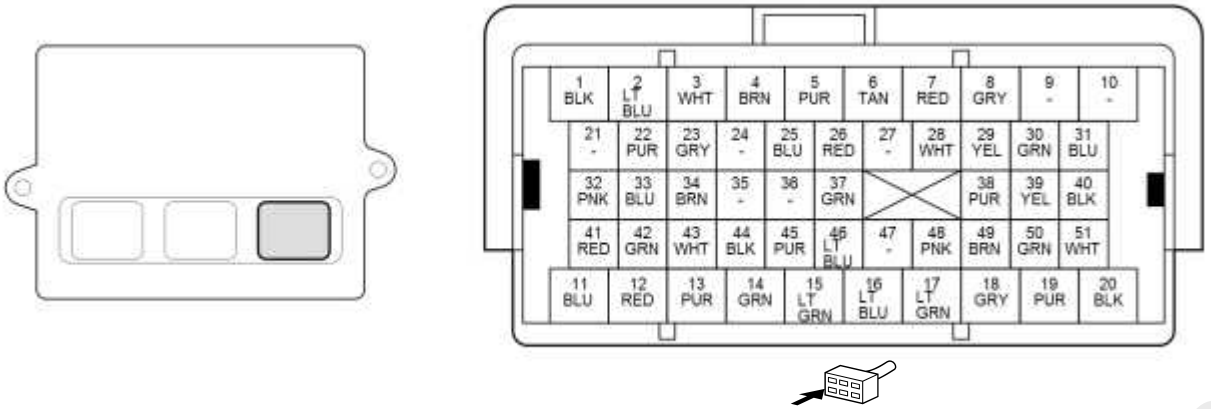
Terminal number	Terminal name	Description
7	Not used	
8	Not used	
9	Not used	
10	IGP (POWER SOURCE)	Power source for PCM
11	GND1 (POWER GROUND)	Ground for PCM
12	Not used	
13	Not used	
14	INJ Ti 1 (No. 1 INJECTOR CONTROL DRIVE SIGNAL)	No. 1 injector drive signal
15	INJ Ti 2 (No. 2 INJECTOR CONTROL DRIVE SIGNAL)	No. 2 injector drive signal
16	INJ Ti 3 (No. 3 INJECTOR CONTROL DRIVE SIGNAL)	No. 3 injector drive signal
17	INJ Ti 4 (No. 4 INJECTOR CONTROL DRIVE SIGNAL)	No. 4 injector drive signal
18	INJ Ti 5 (No. 5 INJECTOR CONTROL DRIVE SIGNAL)	No. 5 injector drive signal
19	INJ Ti 6 (No. 6 INJECTOR CONTROL DRIVE SIGNAL)	No. 6 injector drive signal
20	GND2 (POWER GROUND)	Ground for PCM
21	IGN PULSE5 (No. 5 IGNITION COIL PULSE)	Drives No. 5 ignition coil
22	IGN PULSE6 (No. 6 IGNITION COIL PULSE)	Drives No. 6 ignition coil
23	Not used	
24	Not used	
25	Not used	
26	Not used	
27	Not used	
28	Not used	
29	Not used	
30	Not used	
31	THL1 (THROTTLE POSITION (TP) SENSOR A)	Detects TP sensor A signal
32	IGN PULSE3 (No. 3 IGNITION COIL PULSE)	Drives No. 3 ignition coil
33	IGN PULSE4 (No. 4 IGNITION COIL PULSE)	Drives No. 4 ignition coil
34	Not used	
35	PF (FUEL RAIL PRESSURE SENSOR)	Detects fuel rail pressure sensor signal
36	Not used	
37	Not used	
38	Not used	
39	Not used	
40	THL2 (THROTTLE POSITION (TP) SENSOR B)	Detects TP sensor B signal
41	IGN PULSE1 (No. 1 IGNITION COIL PULSE)	Drives No. 1 ignition coil
42	IGN PULSE2 (No. 2 IGNITION COIL PULSE)	Drives No. 2 ignition coil
43	VCC2 (SENSOR VOLTAGE)	Provides sensor reference voltage
44	VCC5 (SENSOR VOLTAGE)	Provides sensor reference voltage
45	SG2 (SENSOR GROUND)	Sensor ground
46	SG5 (SENSOR GROUND)	Sensor ground
47	OP SENSOR (ENGINE OIL PRESSURE)	Detects rocker arm oil pressure sensor signal
48	Not used	
49	Not used	
50	LIN (LOCAL INTERCONNECT NETWORK)	Sends and receives communication signal

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Terminal number	Terminal name	Description
51	TDC (CAMSHAFT POSITION (CMP) SENSOR)	Detects CMP sensor signal

PCM Inputs and Outputs at PCM Connector C (○) (51P) (female terminals)

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Terminal number	Terminal name	Description
1	PGM (POWER GROUND)	Ground for PCM
2	MTR2 (THROTTLE ACTUATOR +SIDE)	Drives throttle actuator
3	MTR1 (THROTTLE ACTUATOR -SIDE)	Ground for throttle actuator
4	IG1M (IGNITION SIGNAL ETCS)	Detects ignition signal
5	SO2HT B1 (REAR SECONDARY HEATED OXYGEN SENSOR (REAR SECONDARY HO2S (BANK 1, SENSOR 2) HEATER CONTROL)	Drives rear secondary HO2S (bank 1, sensor 2) heater
6	AFHT B1 (REAR AIR FUEL RATIO (REAR A/F) SENSOR (BANK 1, SENSOR 1) HEATER CONTROL)	Drives rear A/F sensor (bank 1, sensor 1) heater
7	SO2HT B2 (FRONT SECONDARY HEATED OXYGEN SENSOR (SECONDARY HO2S (BANK 2, SENSOR 2) HEATER CONTROL)	Drives front secondary HO2S (bank 2, sensor 2) heater
8	AFHT B2 (FRONT AIR FUEL RATIO (FRONT A/F) SENSOR (BANK 2, SENSOR 1) HEATER CONTROL)	Drives front A/F sensor (bank 2, sensor 1) heater
9	Not used	
10	Not used	
11	CRK (CRANKSHAFT POSITION (CKP) SENSOR)	Detects CKP sensor signal
12	PCS (EVAPORATIVE EMISSION (EVAP) CANISTER PURGE VALVE)	Drives EVAP canister purge valve
13	E EGR (EXHAUST GAS RECIRCULATION (EGR) VALVE)	Drives EGR valve
14	CSS (ROCKER ARM OIL CONTROL SOLENOID B (BANK 1))	Drives rocker arm oil control solenoid B (bank 1)
15	VTSB1 (ROCKER ARM OIL CONTROL SOLENOID A (BANK 1))	Drives rocker arm oil control solenoid A (bank 1)
16	VTSB2 (ROCKER ARM OIL CONTROL SOLENOID A (BANK 2))	Drives rocker arm oil control solenoid A (bank 2)
17	INJF1 (INJECTOR DIAG SIGNAL1)	No. 1, No. 5 injector return signal
18	INJF2 (INJECTOR DIAG SIGNAL2)	No. 3, No. 4 injector return signal
19	INJF3 (INJECTOR DIAG SIGNAL3)	No. 2, No. 6 injector return signal
20	GND3 (POWER GROUND)	Ground for PCM
21	Not used	
22	VTMB1 (ROCKER ARM OIL PRESSURE SWITCH A (BANK 1))	Detects rocker arm oil pressure switch A (bank 1) signal
23	VTMB2 (ROCKER ARM OIL PRESSURE SWITCH A (BANK 2))	Detects rocker arm oil pressure switch A (bank 2) signal
24	Not used	
25	VSB1 (VS CELL+ BANK 1)	Detects rear A/F sensor (bank 1, sensor 1) VS CELL signal

Terminal number	Terminal name	Description
26	VCENTB1 (VIRTUAL GROUND BANK 1)	Provides reference voltage for rear A/F sensor (bank 1, sensor 1)
27	Not used	
28	VSB2 (VS CELL+ BANK 2)	Detects front A/F sensor (bank 2, sensor 1) VS CELL signal
29	VCENTB2 (VIRTUAL GROUND BANK 2)	Provides reference voltage for front A/F sensor (bank 2, sensor 1)
30	SO2B1 (REAR SECONDARY HEATED OXYGEN SENSOR (REAR SECONDARY HO2S (BANK 1, SENSOR 2)))	Detects rear secondary HO2S (bank 1, sensor 2) signal

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Terminal number	Terminal name	Description
31	SO2B2 (FRONT SECONDARY HEATED OXYGEN SENSOR (FRONT SECONDARY HO2S (BANK 2, SENSOR 2)))	Detects front secondary HO2S (bank 2, sensor 2) signal
32	VCC1 (SENSOR VOLTAGE)	Provides sensor reference voltage
33	SG1 (SENSOR GROUND)	Sensor ground
34	VCMSW (ROCKER ARM OIL PRESSURE SWITCH B (BANK 1))	Detects rocker arm oil pressure switch B (bank 1) signal
35	Not used	
36	Not used	
37	IPB1 (IP CELL+ BANK 1)	Detects rear A/F sensor (bank 1, sensor 1) pump cell signal
38	IPB2 (IP CELL+ BANK 2)	Detects front A/F sensor (bank 2, sensor 1) pump cell signal
39	SO2SGB1 (REAR SECONDARY HEATED OXYGEN SENSOR (REAR SECONDARY HO2S (BANK 1, SENSOR 2)) SENSOR GROUND)	Sensor ground for rear secondary HO2S (bank 1, sensor 2)
40	SO2SGB2 (FRONT SECONDARY HEATED OXYGEN SENSOR (FRONT SECONDARY HO2S (BANK 2, SENSOR 2)) SENSOR GROUND)	Sensor ground for front secondary HO2S (bank 2, sensor 2)
41	KSB1 (KNOCK SENSOR 1 (BANK 1))	Detects knock sensor 1 (bank 1) signal
42	KSSGB1 (KNOCK SENSOR 1 (BANK 1) GROUND)	Sensor ground for knock sensor 1 (bank 1)
43	KSB2 (KNOCK SENSOR 2 (BANK 2))	Detects knock sensor 2 (bank 2) signal
44	KSSGB2 (KNOCK SENSOR 2 (BANK 2) GROUND)	Sensor ground for knock sensor 2 (bank 2)
45	PB (MANIFOLD ABSOLUTE PRESSURE (MAP) SENSOR)	Detects MAP sensor signal
46	EGRL (EXHAUST GAS RECIRCULATION (EGR) VALVE POSITION SENSOR)	Detects EGR valve position sensor signal
47	Not used	
48	TW (ENGINE COOLANT TEMPERATURE SENSOR (ECT) SENSOR 1)	Detects ECT sensor 1 signal
49	TA (INTAKE AIR TEMPERATURE (IAT) SENSOR)	Detects IAT sensor signal
50	FPF (HIGH PRESSURE FUEL PUMP)	Detects high pressure fuel pump return signal
51	HPTI (HIGH PRESSURE FUEL PUMP)	Detects high pressure fuel pump drive signal

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