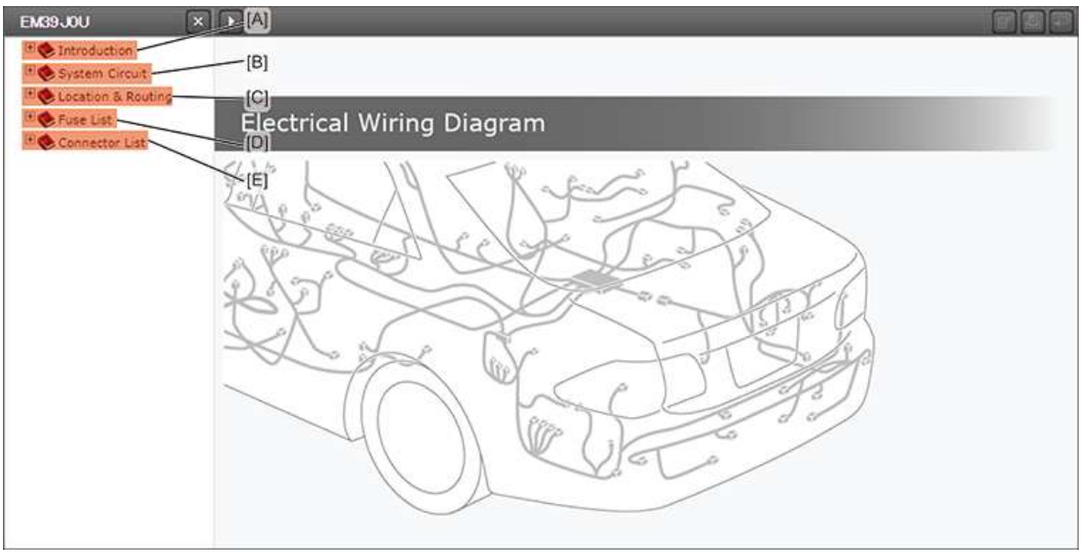
Print Exit

HOW TO USE THE Electrical Wiring Diagram

Contents of the Electrical Wiring Diagram (EWD)

This document consists of the following sections.



[A]: Introduction

This section explains how to use the Electrical Wiring Diagram.

[B]: System Circuit

The circuit diagrams for the power sources, ground points and on-board systems can be viewed.
(The wiring diagrams cover only the circuit connections between the power source and the electrical components)

[C]: Location & Routing

The locations of the wire harnesses, connectors and ground points can be viewed and the wiring diagrams are sorted into vehicle specific areas such as the engine compartment, instrument panel, etc. In addition, the relay location sections show the location of the relays, relay blocks, antennas, and ECUs, as well as the internal circuits.

[D]: Fuse List

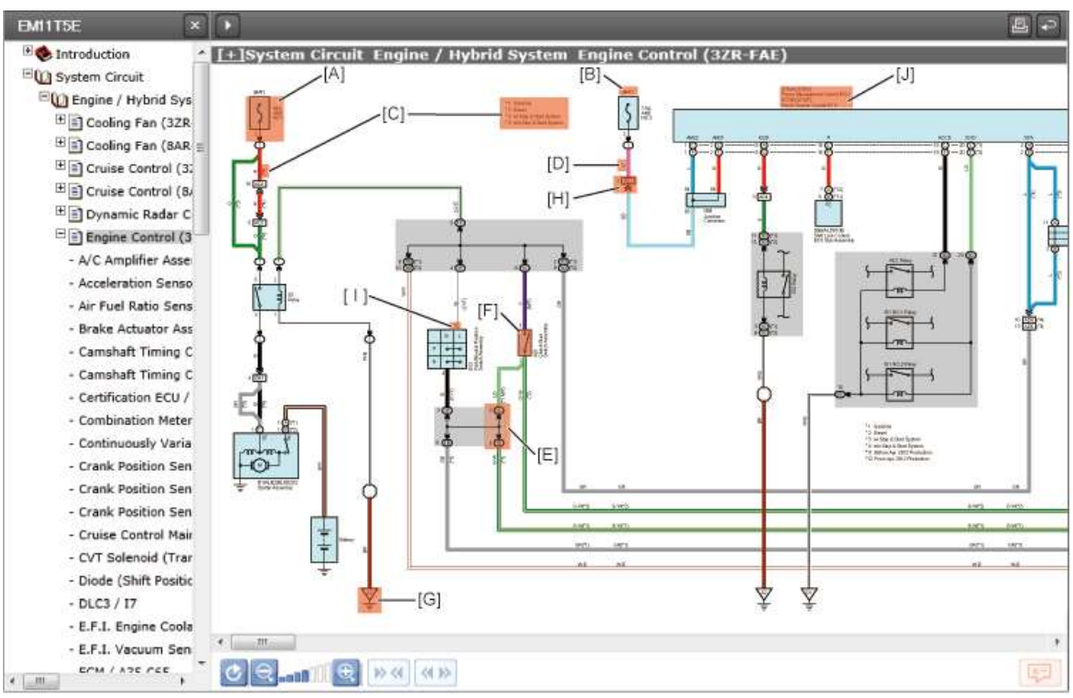
The locations of the fuses and fusible links as well as the related systems are sorted into vehicle specific areas and can be viewed quickly.

[E]: Connector List

The connectors are organized by wire harness, and information for the connectors, ground points, related systems, component locations, and wire harness routings can be checked quickly.

System Circuit

The system circuit diagrams show electrical connections between the fuses and ground points of each system and are sorted into system functions. The power source circuit diagrams show the connections between the vehicle power source (on-board battery) and the fuses, and the ground point circuit diagrams show the connections between the ground points and the components.



[A]: Fuse

The name and capacity of the fuse are shown.
(For locations, refer to the Location & Routing section)

[B]: Power Supply

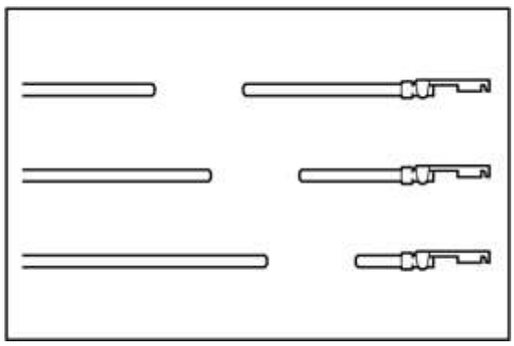
The ignition switch position that supplies the power to the fuse is indicated.

[C]: Variations

The information is given if connectors, wire connections, or wire colors are different depending on the vehicle model, engine type, specification, etc.

Reference:

- When connecting a wire harness to multiple spots on the same connector, cut the wire harness as shown on in the illustration.



Notice:

- Refer to the guidelines for precautions when making repairs.

3. Select the correct crimp sleeve from service parts

a. Remove about 6 mm of insulation from the tip of the wire harness.

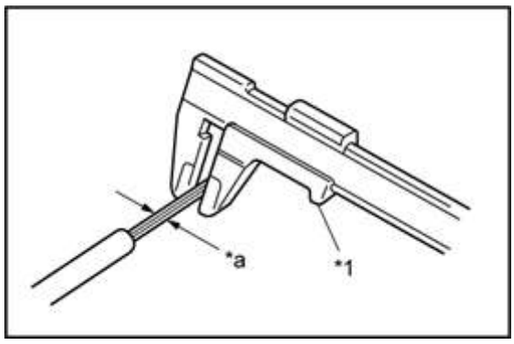
b. Measure the diameter of the wire strand using a caliper.

Reference:

- Formula for calculating the nominal size of the wire

$$\text{Nominal size} = \frac{3.14 \times (\text{diameter of stripped wire harness})^2}{4}$$

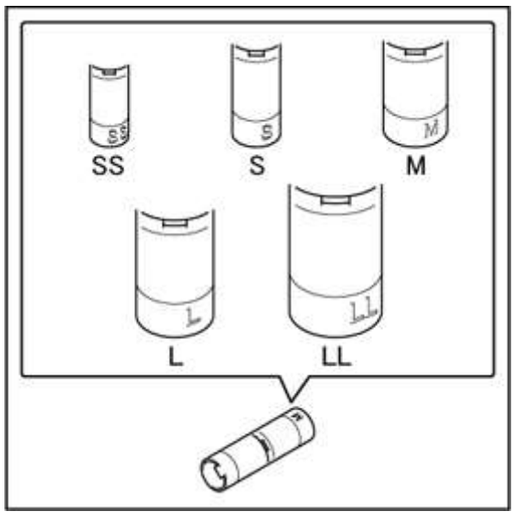
Strand nominal size



*1	Caliper
*a	Wire strand diameter

c. Refer to the table to determine the appropriate size crimp sleeve from the service parts.

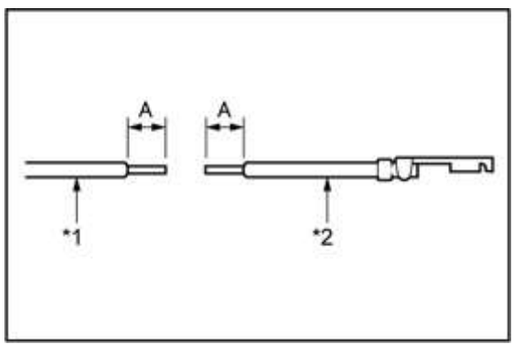
Size	Part number	Wire nominal size (mm^2)	
		Aluminum wires	Copper wires
SS	82999-50010	0.5	0.13 - 0.5
S	82999-52010	0.75 - 1.0	0.5 - 1.0
M	82999-52020	1.25 - 2.5	1.25- 2.0
L	82999-30020	3.0	3.0 - 5.0
LL	82999-60020	8.0	8.0



4. Remove the sheath from the existing wire and the repair terminal wire.

a. Using the selected sleeve, follow the directions in the table and remove the insulation from the wire harness and repair wire.

	S - LL	SS
A (mm)	8 - 11	6

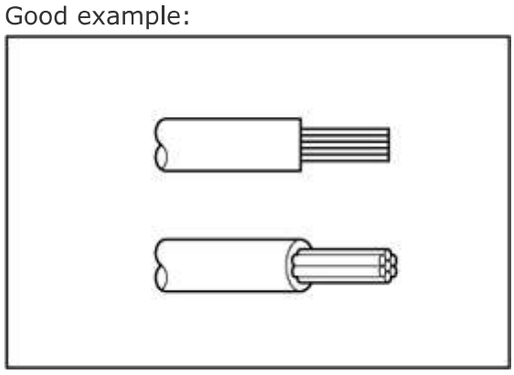


*1	Existing harness
*2	Repair wire

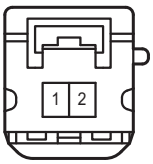
Notice:

- Do not damage or cut the wire harness strand.After the sheath is removed, visually check the wire harness. If any damage is found, do the sheath removal again.

Good example:

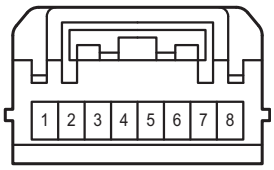


N1
White



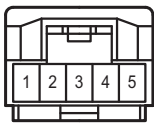
90980-12808

N3
White



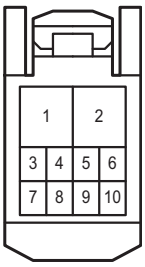
90980-12550

N4
White



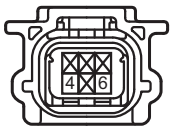
90980-11909

N7
White



90980-12328

N11
White

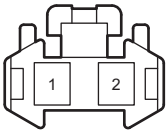


90980-12A30

N12
Yellow

90980-12490

N13
White

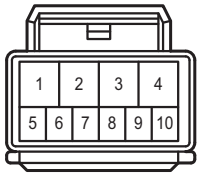


90980-11148

N14
White

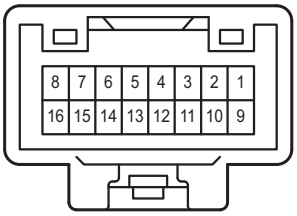
90980-11918

N15
White



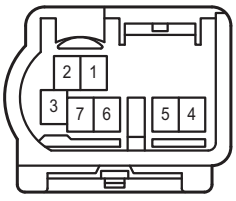
90980-12226

N17
White



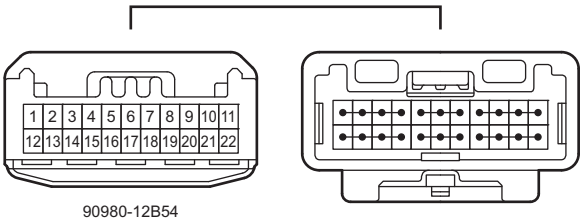
90980-12192

N18
White



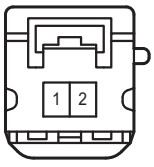
90980-12059

N20
Black



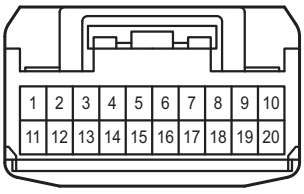
90980-12B54

O1
White



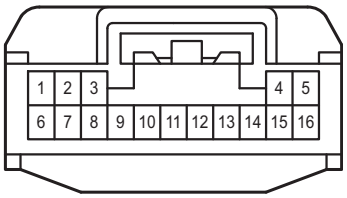
90980-12808

O2
White



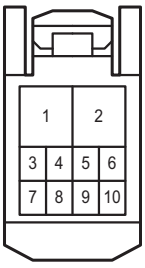
90980-12460

O5
White



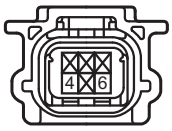
90980-12423

O6
White



90980-12328

O10
White

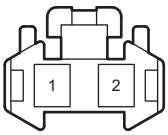


90980-12A30

O12
Yellow

90980-12490

O13
White

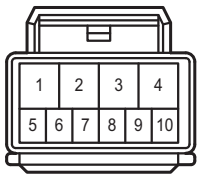


90980-11148

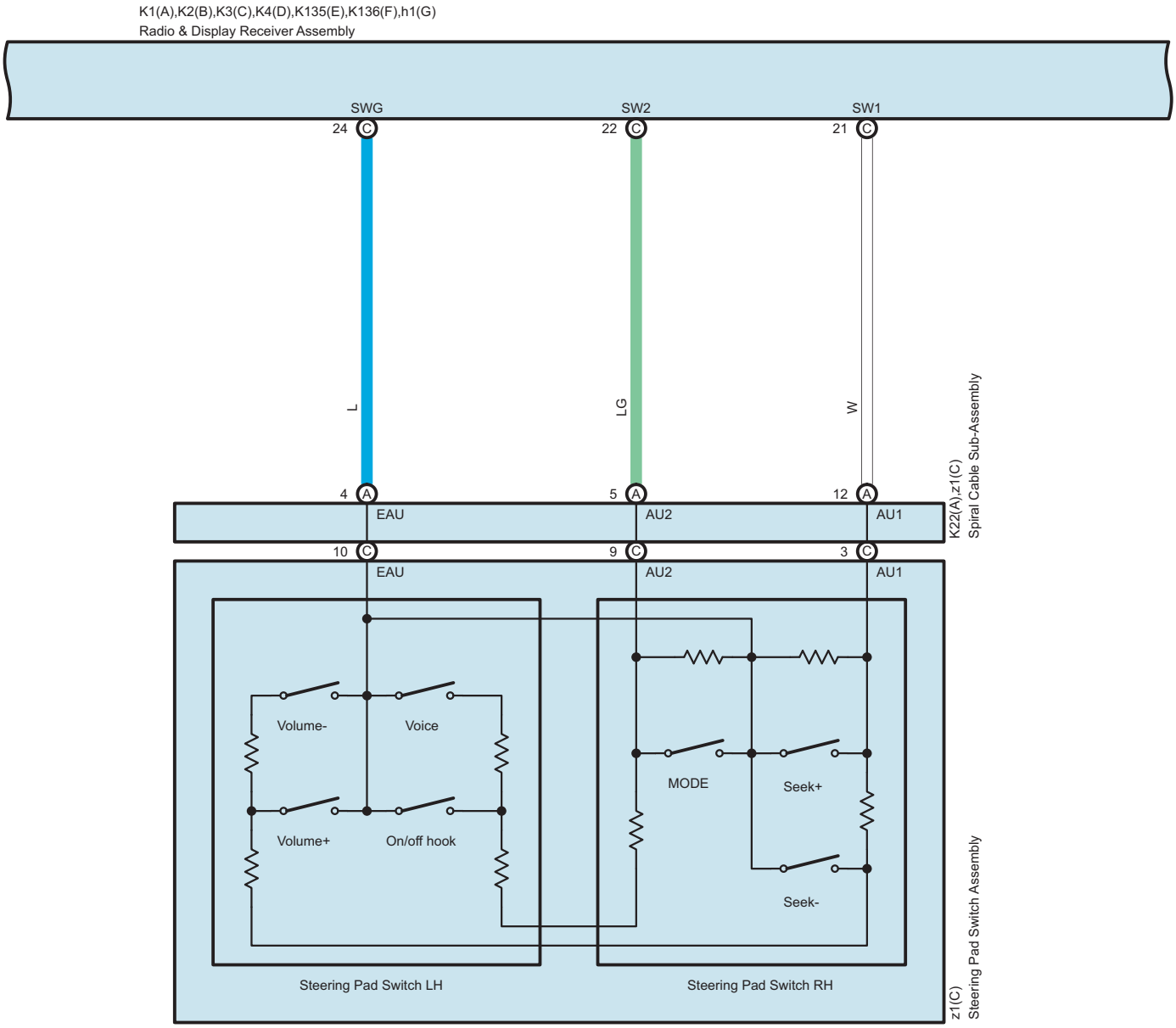
O14
White

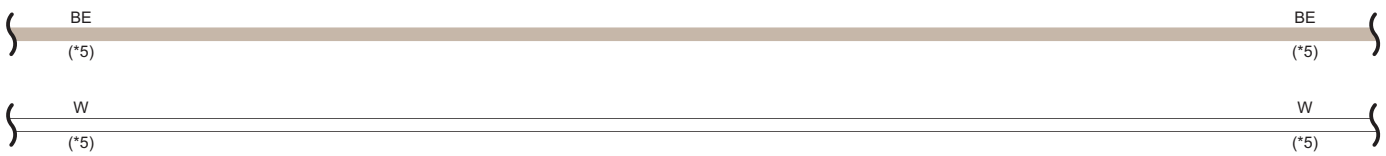
90980-11918

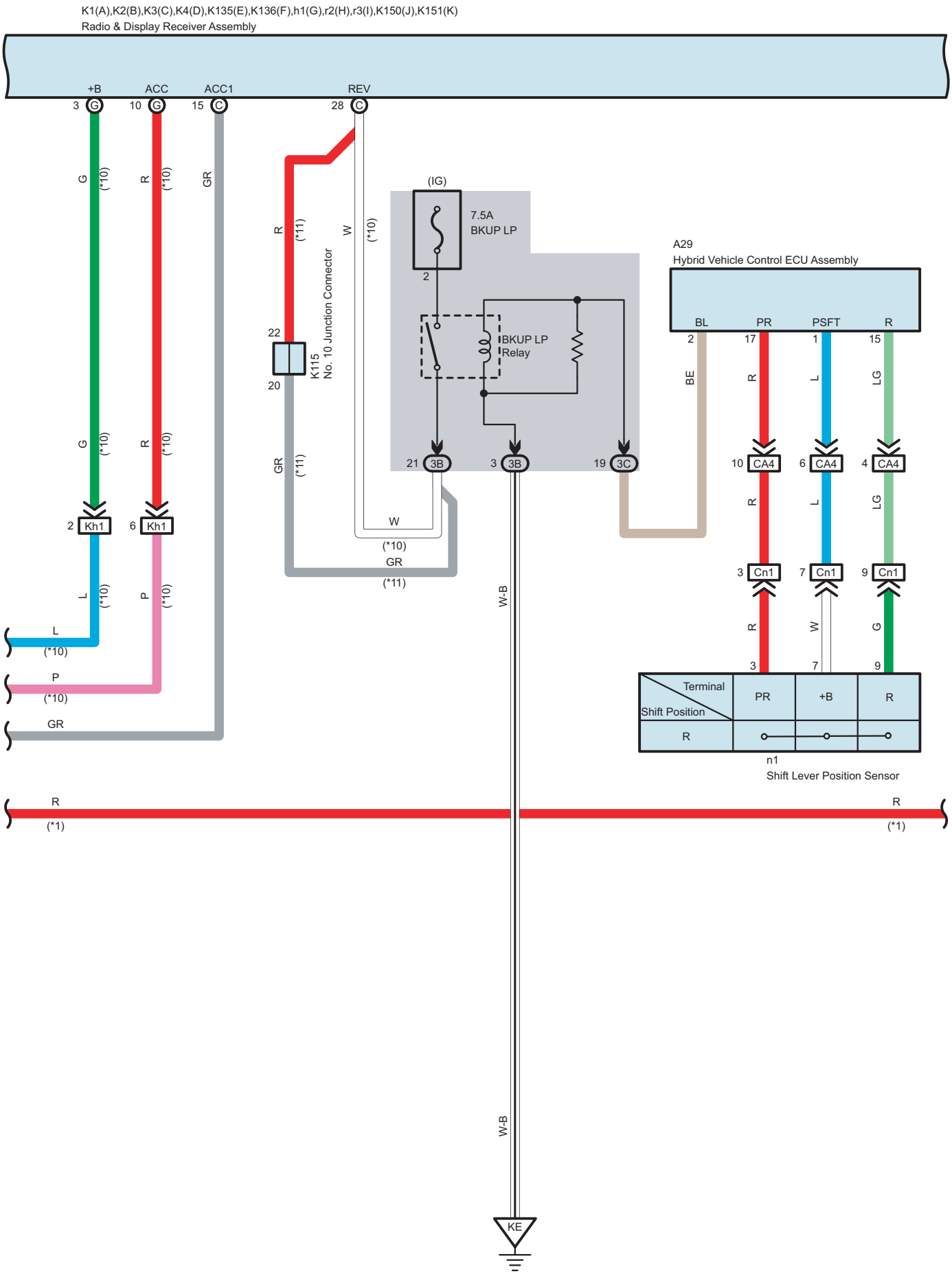
O15
White



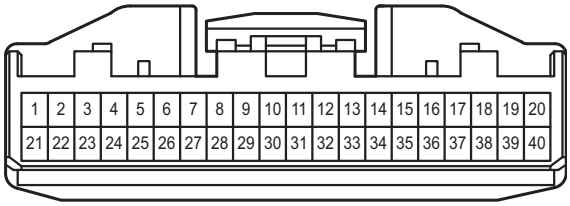
90980-12226


K1(A),K2(B),K3(C),K4(D),K135(E),K136(F),h1(G)
Radio & Display Receiver Assembly
SWG
SW2
SW1
24
22
21
L
LG
W
4
5
12
EAU
AU2
AU1
K22(A),z1(C)
Spiral Cable Sub-Assembly
10
9
3
EAU
AU2
AU1
Volume-
Voice
Volume+
On/off hook
MODE
Seek+
Seek-
Steering Pad Switch LH
Steering Pad Switch RH
z1(C)
Steering Pad Switch Assembly


BE
(*5)
BE
(*5)
W
(*5)
W
(*5)

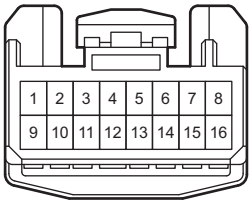

K1(A),K2(B),K3(C),K4(D),K135(E),K136(F),h1(G),r2(H),r3(I),K150(J),K151(K)
Radio & Display Receiver Assembly
+B
ACC
ACC1
REV
3 G
10 G
15 C
28 C
G (*10)
R (*10)
GR
R (*11)
W (*10)
(IG)
7.5A
BKUP LP
2
22
20
K115
No. 10 Junction Connector
BKUP LP
Relay
21 3B
3 3B
19 3C
GR (*11)
W (*10)
GR (*11)
W-B
A29
Hybrid Vehicle Control ECU Assembly
BL
PR
PSFT
R
2
17
1
15
BE
R
L
LG
10 CA4
6 CA4
4 CA4
3 Cn1
7 Cn1
9 Cn1
R
W
G
3
7
9
2 Kh1
6 Kh1
L (*10)
P (*10)
GR
L (*10)
P (*10)
Terminal
Shift Position
PR
+B
R
R
n1
Shift Lever Position Sensor
R (*1)
R (*1)
W-B
KE

K21
Black



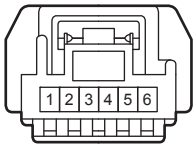
90980-12557

K37
Black



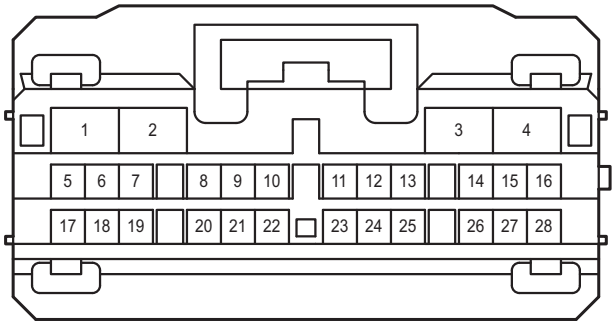
82824-33470

K39
Black



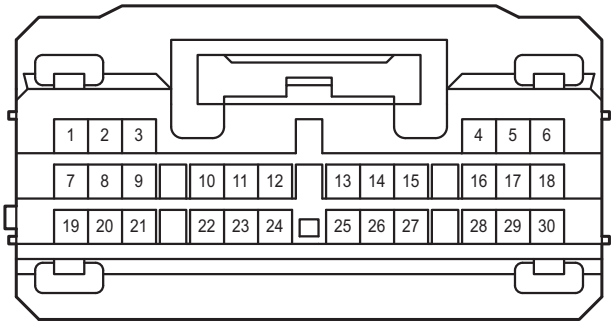
90980-12C74

K54
White



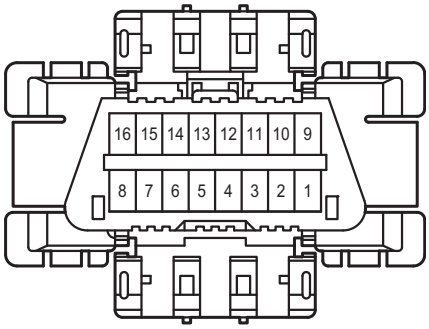
90980-12760

K55
White



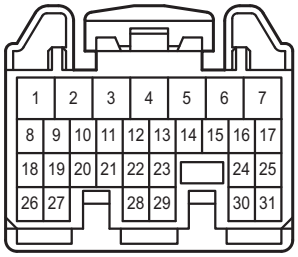
90980-12761

K68
White



90980-11665

K70
Gray

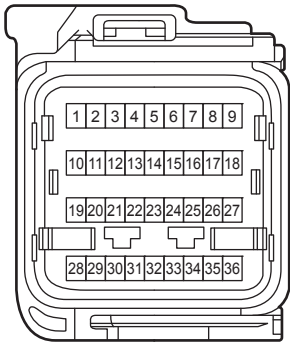


90980-12431

K71
White

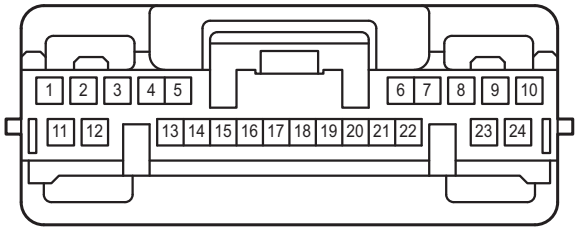
90980-12368

K73
Yellow



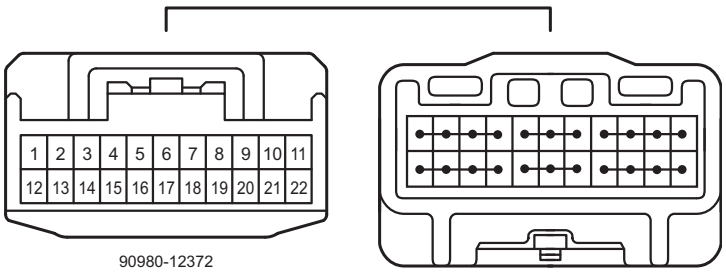
90980-12C56

K76
Black



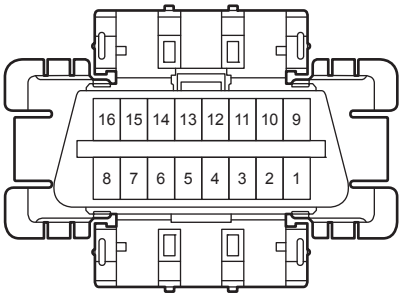
90980-12912

K128
White



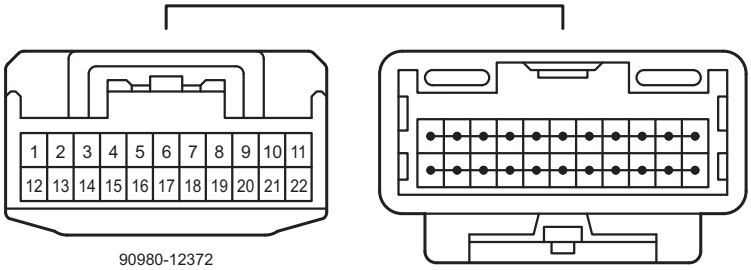
90980-12372

K138
White



90980-12D97

K148
Gray

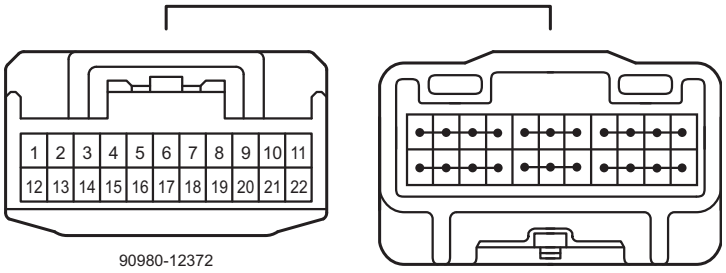


90980-12372

R5
Black

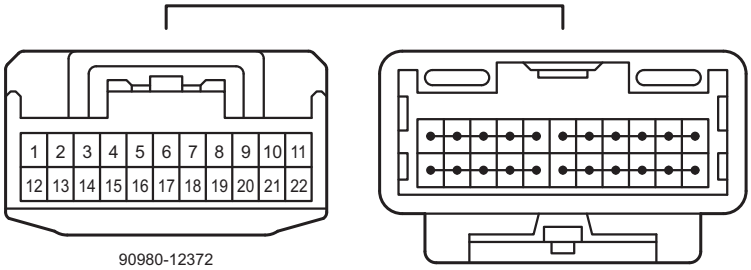
90980-10871

R94
Blue

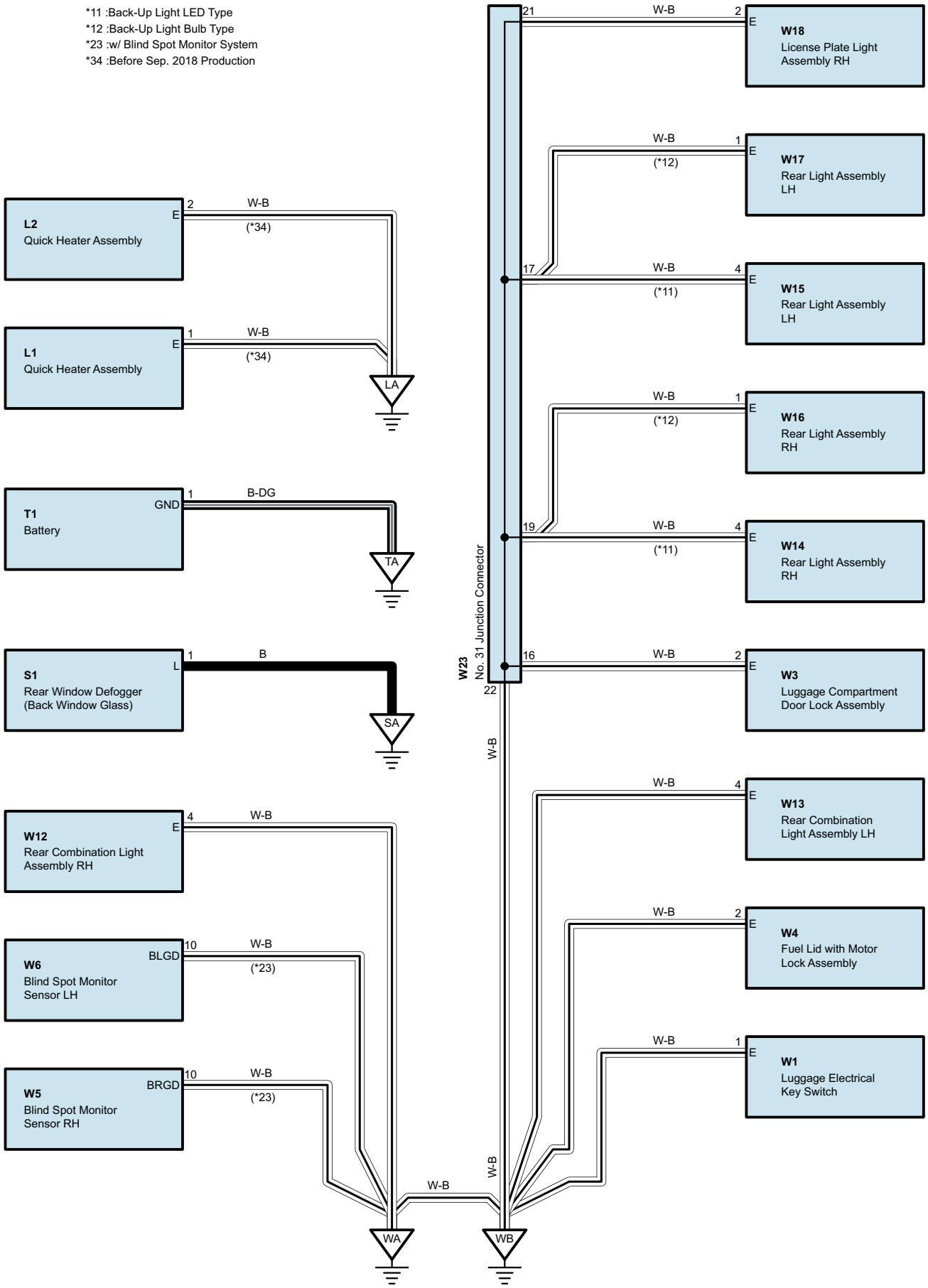


90980-12372

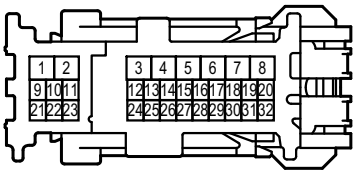
R97
Black



90980-12372

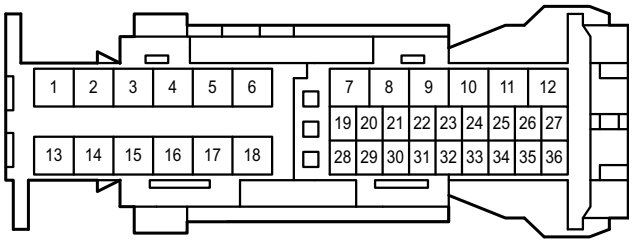

*11 :Back-Up Light LED Type
*12 :Back-Up Light Bulb Type
*23 :w/ Blind Spot Monitor System
*34 :Before Sep. 2018 Production
L2
Quick Heater Assembly
L1
Quick Heater Assembly
T1
Battery
S1
Rear Window Defogger
(Back Window Glass)
W12
Rear Combination Light
Assembly RH
W6
Blind Spot Monitor
Sensor LH
W5
Blind Spot Monitor
Sensor RH
W23
No. 31 Junction Connector
W18
License Plate Light
Assembly RH
W17
Rear Light Assembly
LH
W15
Rear Light Assembly
LH
W16
Rear Light Assembly
RH
W14
Rear Light Assembly
RH
W3
Luggage Compartment
Door Lock Assembly
W13
Rear Combination
Light Assembly LH
W4
Fuel Lid with Motor
Lock Assembly
W1
Luggage Electrical
Key Switch
LA
TA
SA
WA
WB
W-B
B-DG
B
(*12)
(*11)
(*34)
(*23)

3C
White



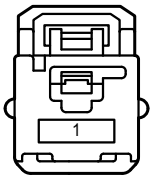
90980-12A47

3D
White



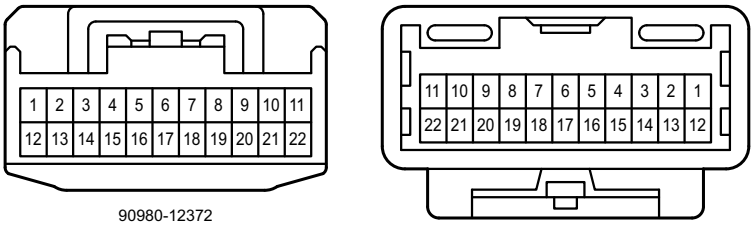
90980-12944

3F
White



90980-12756

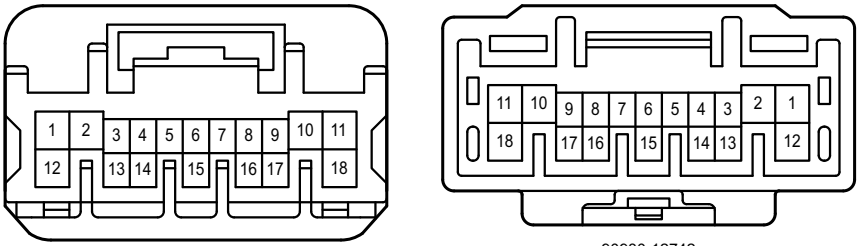
AK1
Blue



90980-12372

90980-12371

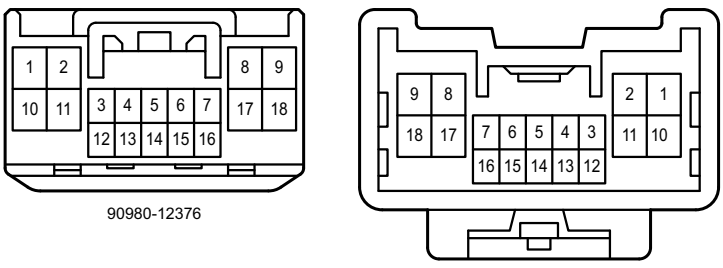
AK3
Gray



90980-12743

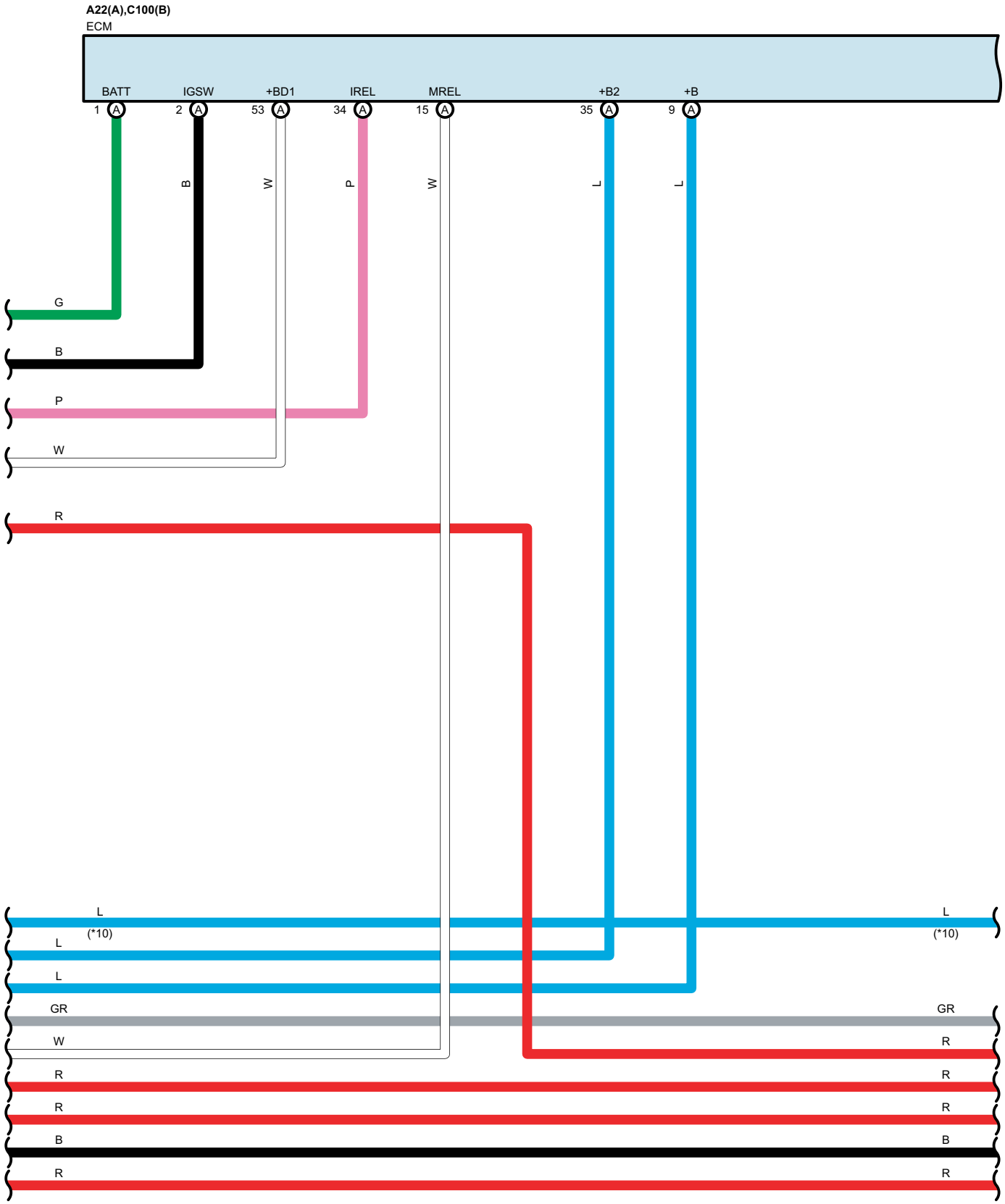
90980-12742

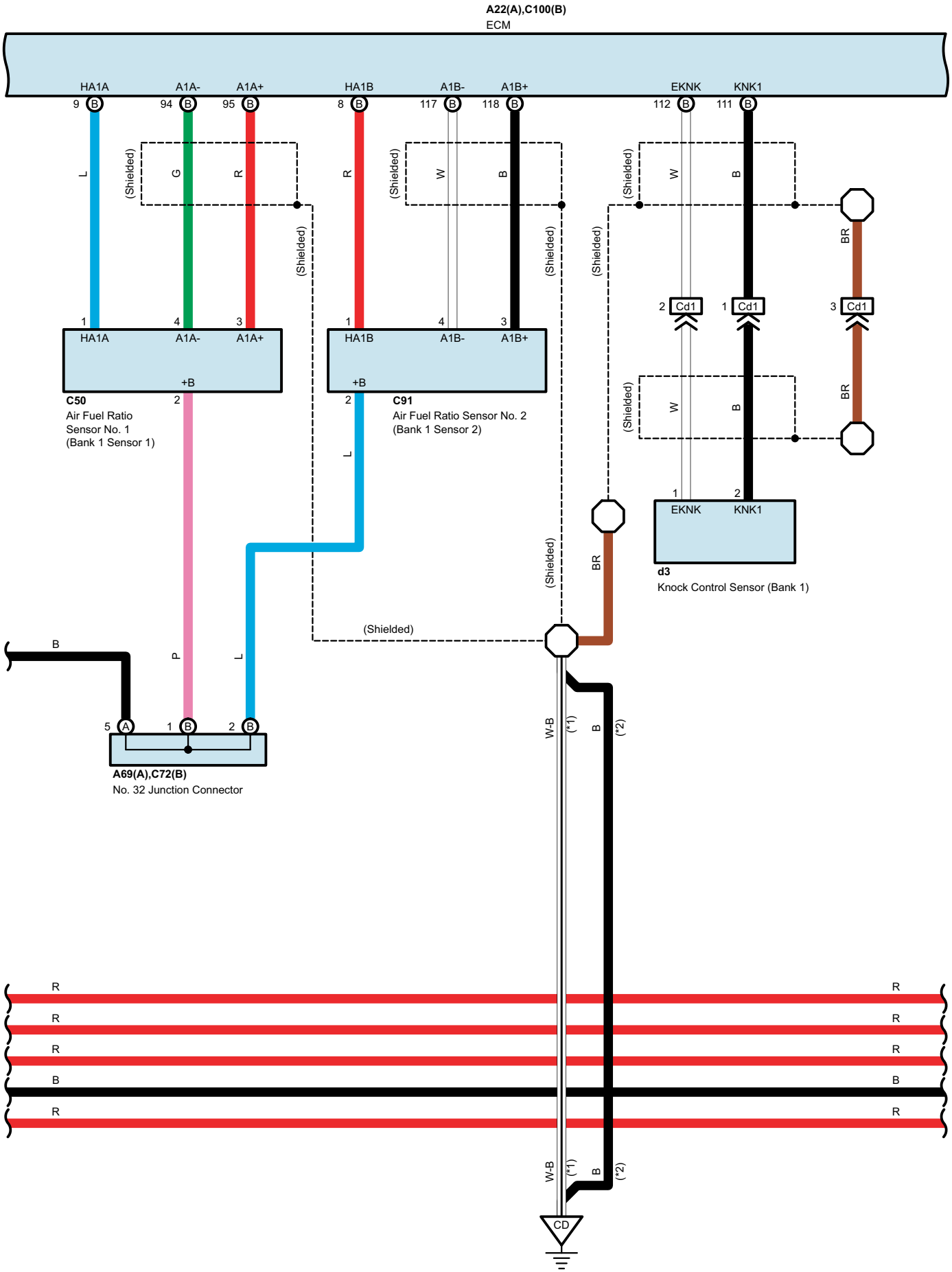
AK4
Black

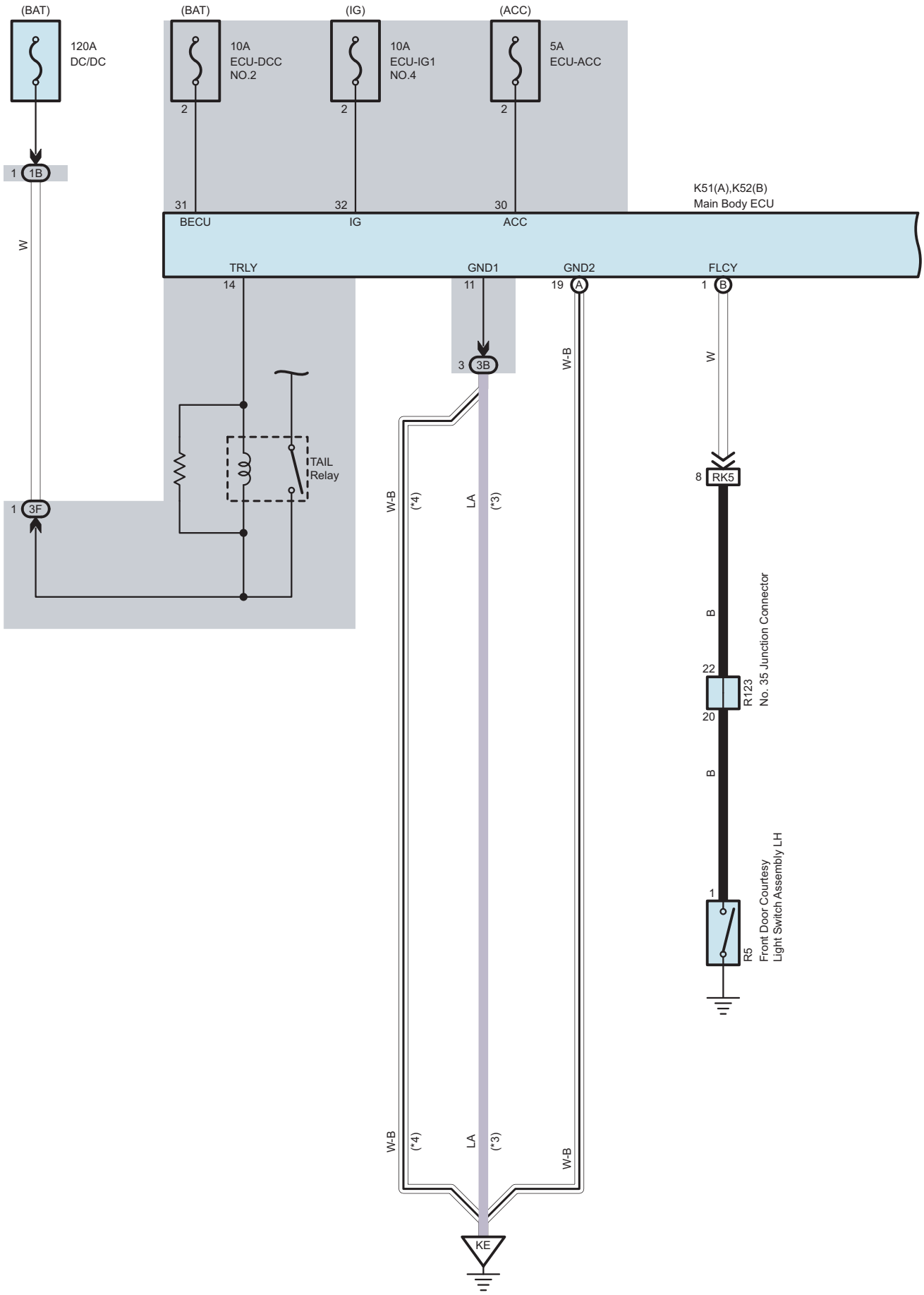


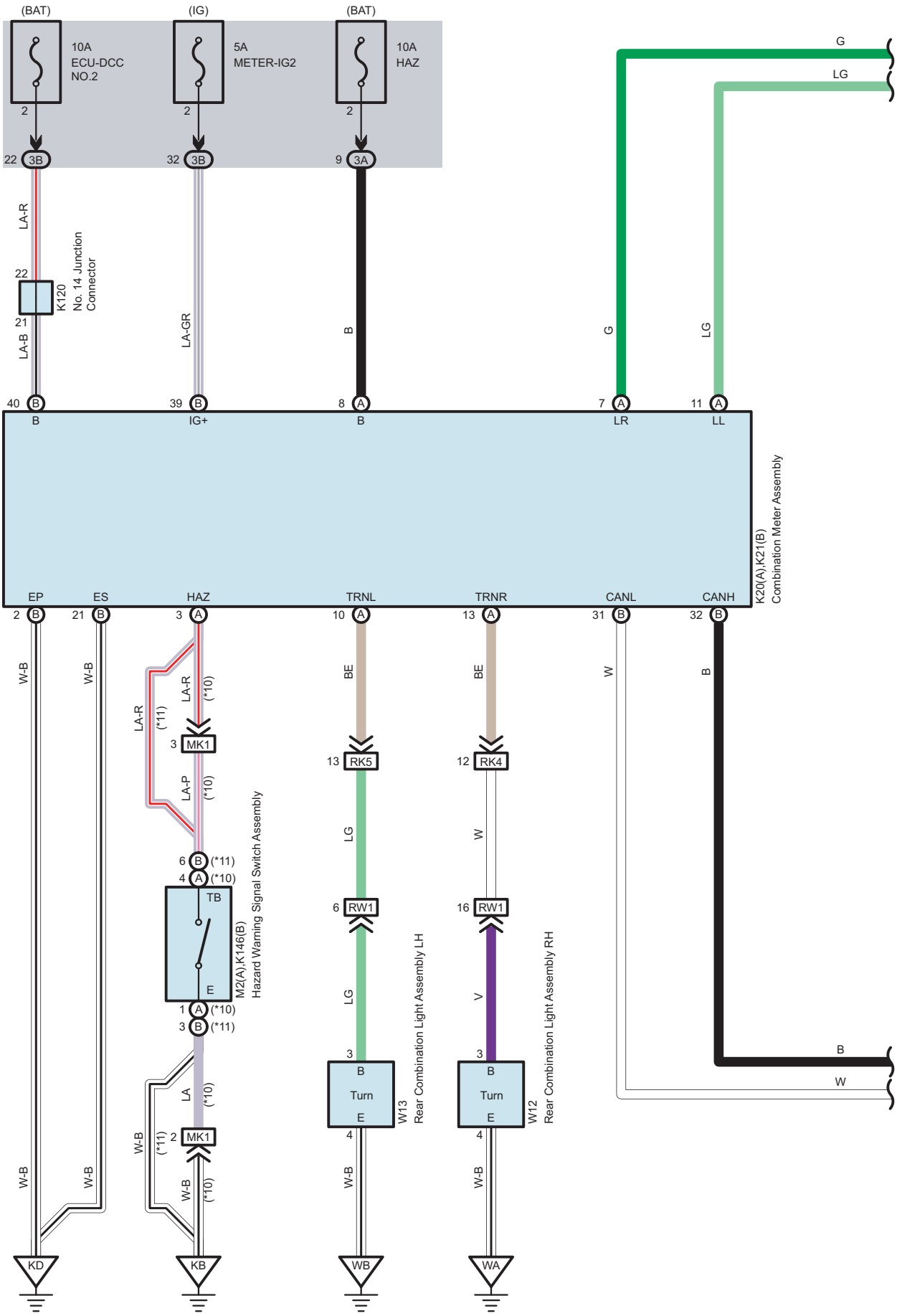
90980-12376

90980-12375

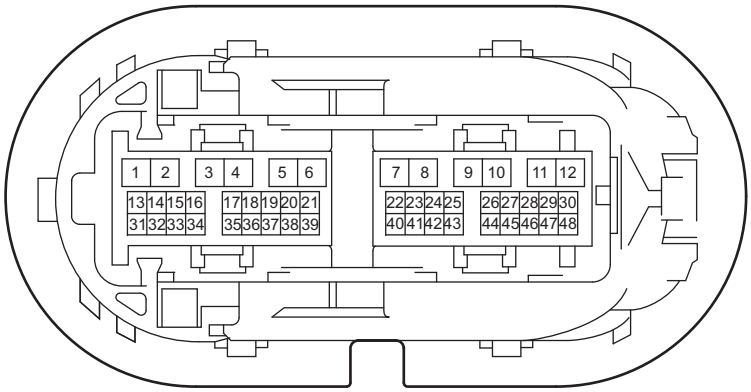

A22(A),C100(B)
ECM
BATT
IGSW
+BD1
IREL
MREL
+B2
+B
1 A
2 A
53 A
34 A
15 A
35 A
9 A
B
W
P
W
L
L
G
B
P
W
R
L
(*10)
L
L
GR
W
R
R
R
B
R
L
(*10)
GR
R
R
R
B
R


A22(A),C100(B)
ECM
HA1A
A1A-
A1A+
HA1B
A1B-
A1B+
EKNK
KNK1
9 B
94 B
95 B
8 B
117 B
118 B
112 B
111 B
L
(Shielded)
G
R
W
B
BR
Cd1
C50
Air Fuel Ratio Sensor No. 1 (Bank 1 Sensor 1)
C91
Air Fuel Ratio Sensor No. 2 (Bank 1 Sensor 2)
d3
Knock Control Sensor (Bank 1)
+B
P
A69(A),C72(B)
No. 32 Junction Connector
W-B
(*1)
(*2)
CD

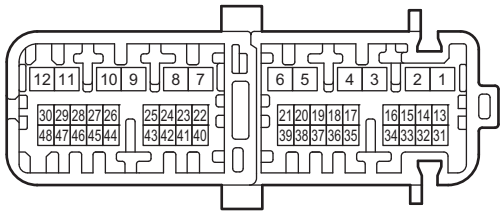

(BAT)
120A
DC/DC
1
1B
W
1
3F
(BAT)
10A
ECU-DCC
NO.2
2
(IG)
10A
ECU-IG1
NO.4
2
(ACC)
5A
ECU-ACC
2
K51(A),K52(B)
Main Body ECU
31
BECU
32
IG
30
ACC
TRLY
14
TAIL
Relay
GND1
11
3
3B
GND2
19
A
W-B
FLCY
1
B
W
8
RK5
B
22
R123
No. 35 Junction Connector
20
B
1
R5
Front Door Courtesy
Light Switch Assembly LH
W-B
(*4)
LA
(*3)
W-B
(*4)
LA
(*3)
W-B
KE


(BAT)
10A
ECU-DCC
NO.2
(IG)
5A
METER-IG2
(BAT)
10A
HAZ
G
LG
LA-R
LA-B
LA-GR
B
G
LG
No. 14 Junction
Connector
K120
EP
ES
HAZ
TRNL
TRNR
CANL
CANH
B
IG+
B
LR
LL
K20(A),K21(B)
Combination Meter Assembly
W-B
LA-R
LA-P
(*10)
(*11)
MK1
RK5
RK4
BE
LG
W
RW1
V
TB
E
M2(A),K146(B)
Hazard Warning Signal Switch Assembly
Turn
W13
Rear Combination Light Assembly LH
W12
Rear Combination Light Assembly RH
W
KD
KB
WB
WA

NR1
White

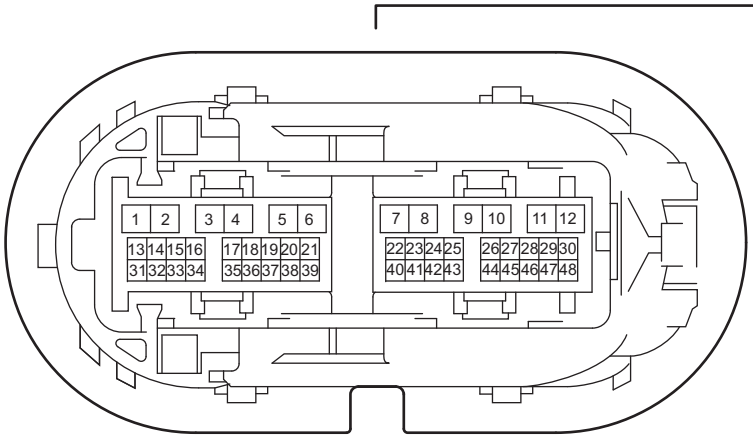


90980-12A09

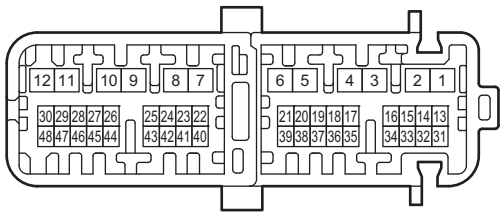


90980-12A06

OR1
White

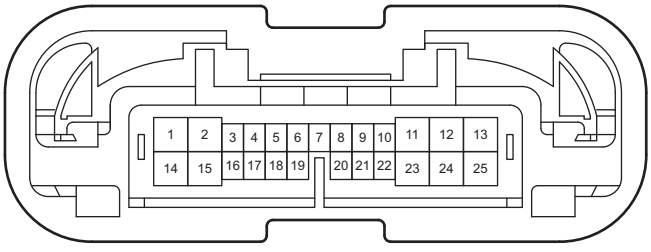


90980-12A09

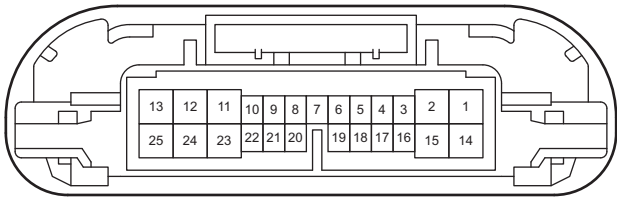


90980-12A06

QR1
White



90980-12802



90980-12801

*1 :w/ Power Seat (Driver's Seat)
*2 :w/o Power Seat (Driver's Seat)