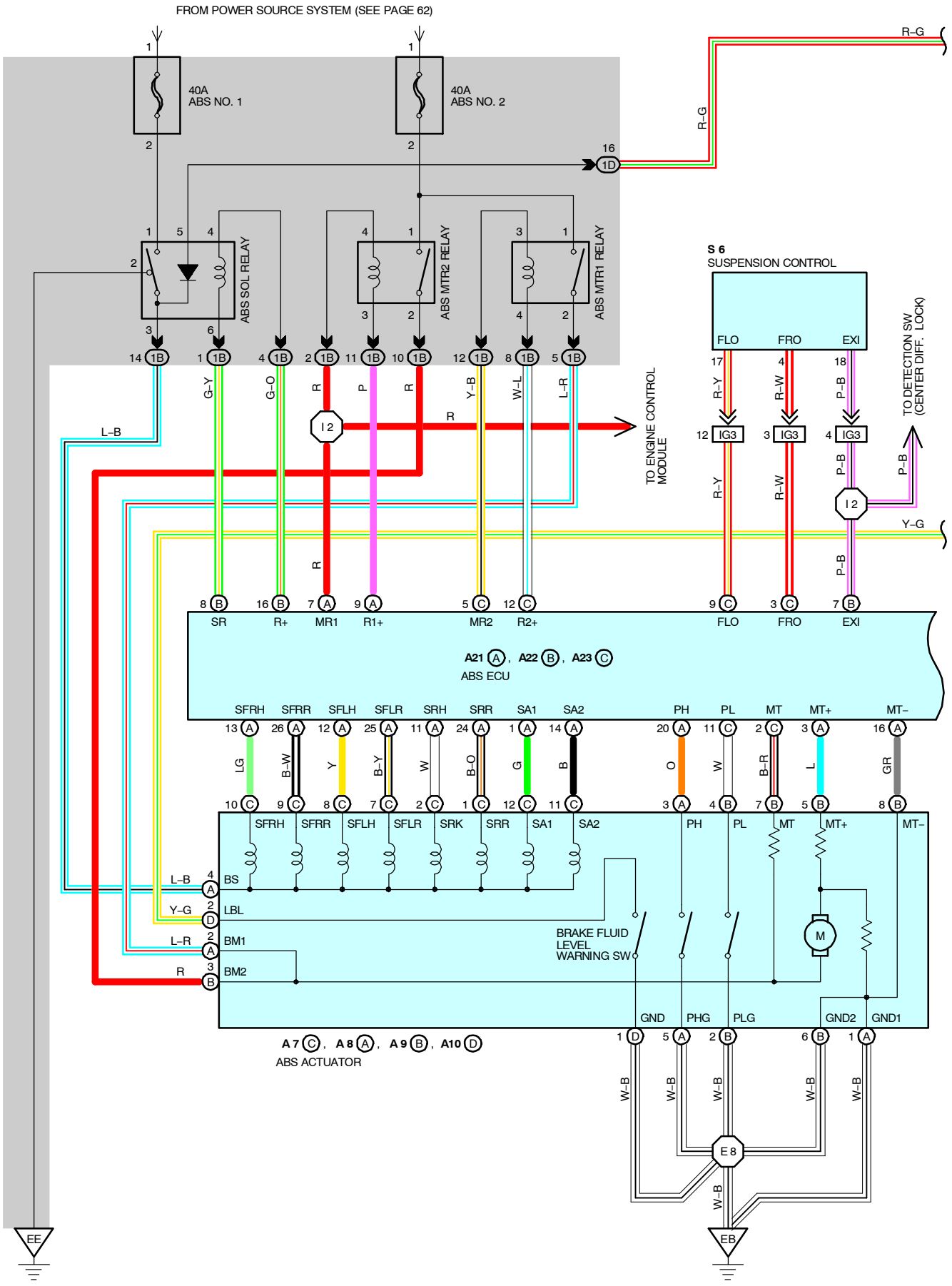
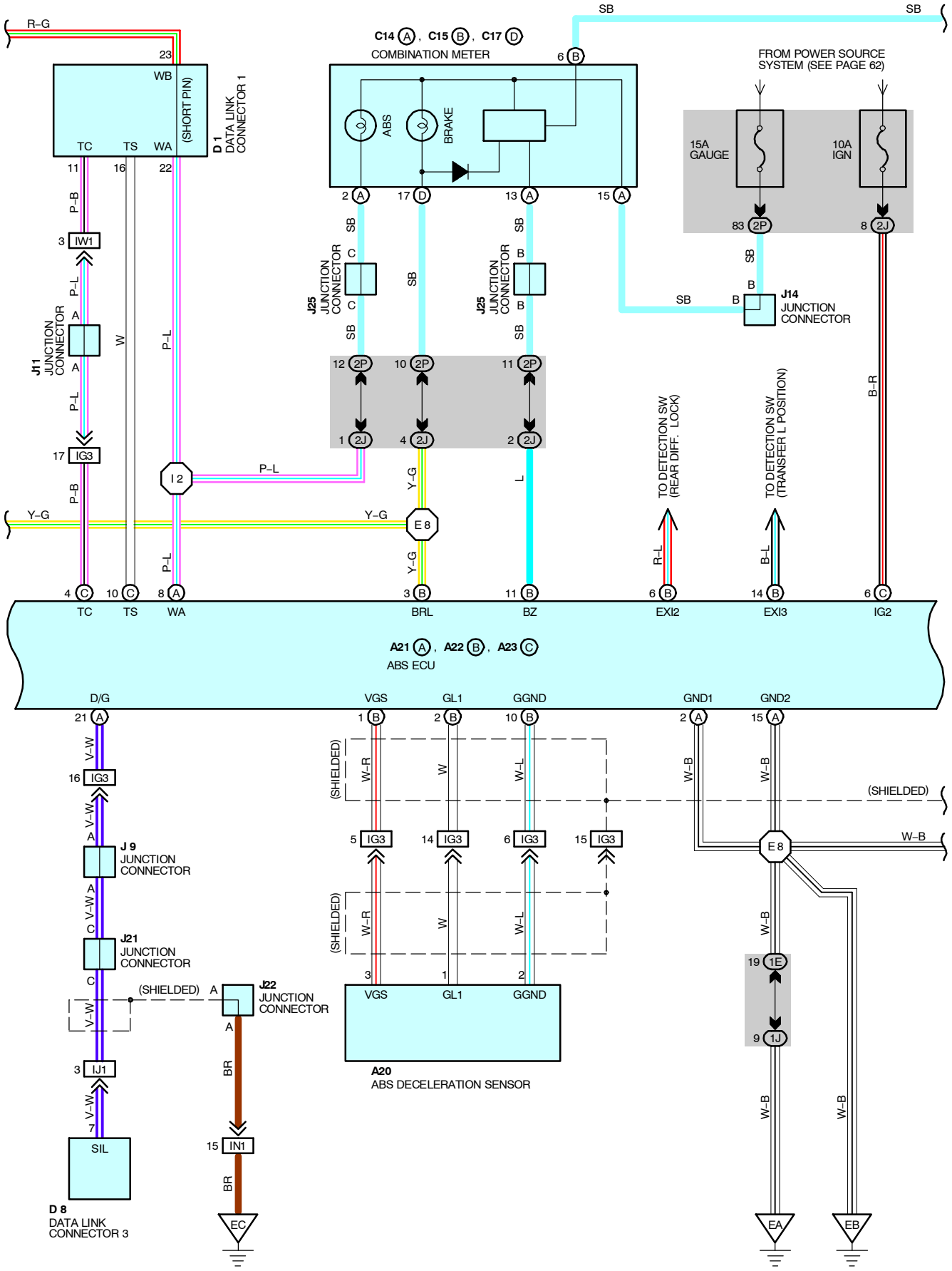
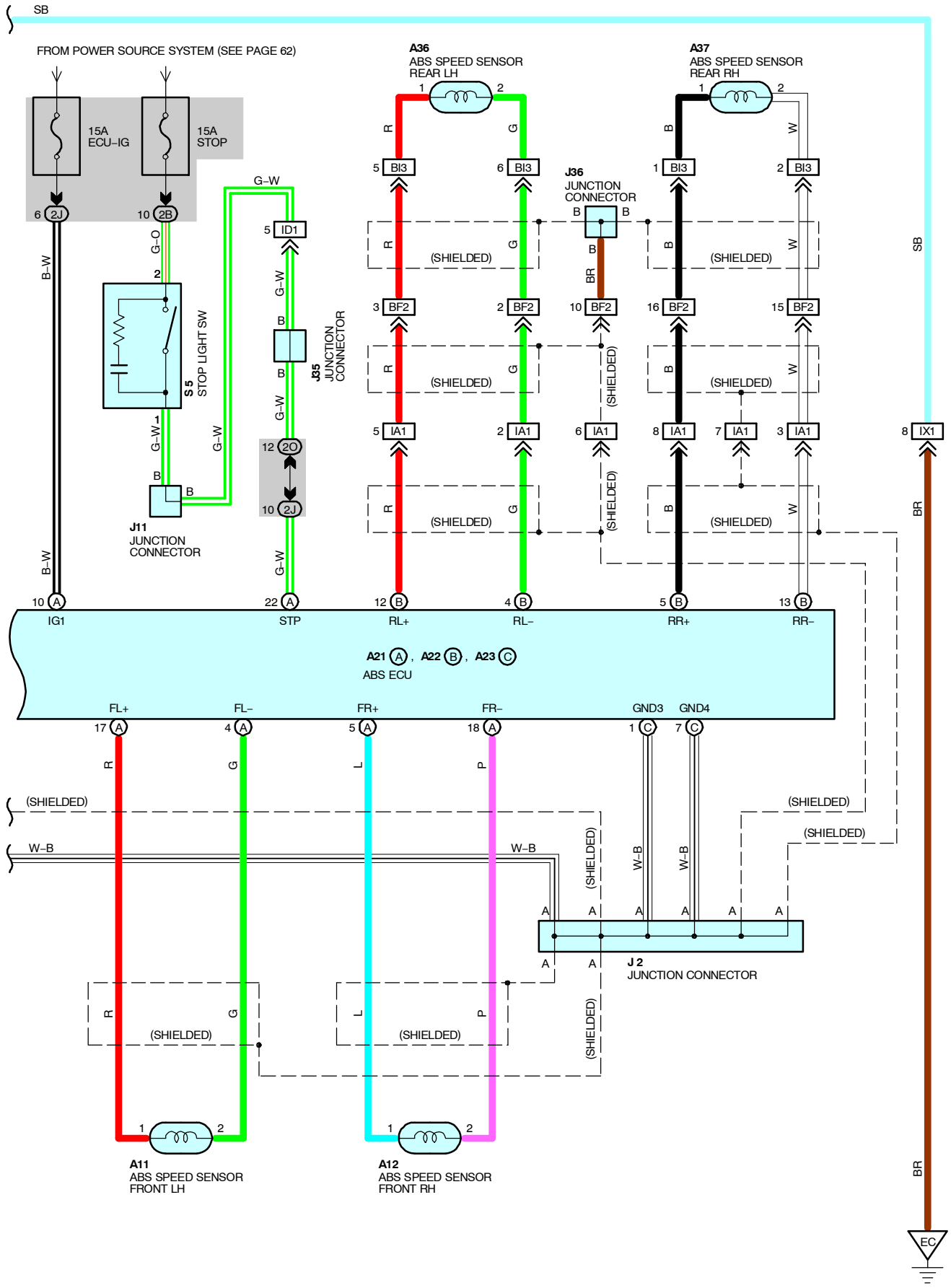

FROM POWER SOURCE SYSTEM (SEE PAGE 62)
40A
ABS NO. 1
40A
ABS NO. 2
R-G
ABS SOL RELAY
ABS MTR2 RELAY
ABS MTR1 RELAY
S 6
SUSPENSION CONTROL
FLO
FRO
EXI
TO DETECTION SW
(CENTER DIFF. LOCK)
TO ENGINE CONTROL
MODULE
I 2
IG3
L-B
G-Y
G-O
R
P
Y-B
W-L
L-R
R-Y
R-W
P-B
Y-G
SR
R+
MR1
R1+
MR2
R2+
A21 A, A22 B, A23 C
ABS ECU
SFRH
SFRR
SFLH
SFLR
SRH
SRR
SA1
SA2
PH
PL
MT
MT+
MT-
LG
B-W
Y
B-Y
W
B-O
G
B
O
W
B-R
L
GR
BS
LBL
BM1
BM2
BRAKE FLUID
LEVEL
WARNING SW
M
SRK
GND
PHG
PLG
GND2
GND1
A7 C, A8 A, A9 B, A10 D
ABS ACTUATOR
W-B
E 8
EE
EB


R–G
23
WB
(SHORT PIN)
TC
TS
WA
D 1
DATA LINK
CONNECTOR 1
11
16
22
P–B
3
IW1
P–L
J11
JUNCTION
CONNECTOR
A
W
P–L
17
IG3
P–B
I 2
P–L
Y–G
Y–G
E 8
P–L
4
10
8
TC
TS
WA
C14 A , C15 B , C17 D
COMBINATION METER
ABS
BRAKE
6
SB
SB
2
17
13
15
SB
SB
J25
JUNCTION
CONNECTOR
C
C
SB
B
B
J25
JUNCTION
CONNECTOR
SB
SB
12 2P
10 2P
11 2P
1 2J
4 2J
2 2J
Y–G
L
3
11
BRL
BZ
FROM POWER SOURCE
SYSTEM (SEE PAGE 62)
15A
GAUGE
10A
IGN
83 2P
8 2J
SB
B
SB
B
J14
JUNCTION
CONNECTOR
TO DETECTION SW
(REAR DIFF. LOCK)
TO DETECTION SW
(TRANSFER L POSITION)
B–R
R–L
B–L
6
14
6
EXI2
EXI3
IG2
A21 A , A22 B , A23 C
ABS ECU
D/G
VGS
GL1
GGND
GND1
GND2
21
1
2
10
2
15
V–W
16
IG3
(SHIELDED)
W–R
W
W–L
W–B
W–B
(SHIELDED)
V–W
A
5
IG3
14
IG3
6
IG3
15
IG3
E 8
W–B
J 9
JUNCTION
CONNECTOR
A
V–W
C
J21
JUNCTION
CONNECTOR
C
(SHIELDED)
A
J22
JUNCTION
CONNECTOR
V–W
A
3
1
2
19 1E
3
IJ1
BR
9 1J
V–W
7
SIL
15
IN1
W–B
W–B
BR
D 8
DATA LINK
CONNECTOR 3
EC
VGS
GL1
GGND
A20
ABS DECELERATION SENSOR
EA
EB


SB
FROM POWER SOURCE SYSTEM (SEE PAGE 62)
15A
ECU–IG
15A
STOP
6 2J
10 2B
B–W
G–O
2
S 5
STOP LIGHT SW
1
G–W
B
J11
JUNCTION
CONNECTOR
G–W
5 ID1
G–W
B
B
G–W
J35
JUNCTION
CONNECTOR
12 2O
10 2J
G–W
A36
ABS SPEED SENSOR
REAR LH
1
2
R
G
5 BI3
6 BI3
(SHIELDED)
3 BF2
2 BF2
5 IA1
2 IA1
J36
JUNCTION
CONNECTOR
B
B
BR
10 BF2
6 IA1
(SHIELDED)
A37
ABS SPEED SENSOR
REAR RH
1
2
B
W
1 BI3
2 BI3
(SHIELDED)
16 BF2
15 BF2
8 IA1
7 IA1
3 IA1
8 IX1
SB
BR
10 A
IG1
22 A
STP
12 B
RL+
4 B
RL–
5 B
RR+
13 B
RR–
A21 A , A22 B , A23 C
ABS ECU
FL+
FL–
FR+
FR–
GND3
GND4
17 A
4 A
5 A
18 A
1 C
7 C
R
G
L
P
(SHIELDED)
W–B
A
J 2
JUNCTION CONNECTOR
A11
ABS SPEED SENSOR
FRONT LH
A12
ABS SPEED SENSOR
FRONT RH
EC

SYSTEM OUTLINE

ABS OPERATION

If the brake pedal is depressed suddenly, the ABS controls the hydraulic pressure of the wheel cylinders to automatically avoid wheel locking and ensure the directional and steering stability of the vehicle.
In sudden braking, the ABS ECU controls the solenoids in the actuators using the signals from the sensor to move the brake fluid to the reservoir in order to release the braking pressure applied to the wheel cylinder. If the ABS ECU detects that the fluid pressure in the wheel cylinder is insufficient, the ABS ECU controls the solenoids in the actuators to increase the braking pressure.

ABS OPERATION

If an error occurs in the ABS ECU, sensor signals, and/or actuators, the ABS ECU inhibits the brake actuator control. According to this, the brake actuator turns off the solenoid, and the vehicle operates without the ABS system.

SERVICE HINTS

A21, (A), A23 (C) ABS ECU

(A)10–GROUND : Approx. **12** with ignition SW at **ON** or **ST** position
(C) 6–GROUND : Approx. **12** with ignition SW at **ON** or **ST** position
(A)22–GROUND : Approx. **12** with brake pedal depressed
(A) 2, (A) 15, (C) 1, (C) 7–GROUND : Always continuity

A11, A12 ABS SPEED SENSOR FRONT LH, RH

1–2 : Approx. **1.07** kΩ (**20**° C, **68**° F)

A36, A37 ABS SPEED SENSOR REAR LH, RH

1–2 : Approx. **1.2** kΩ (**25**° C, **77**° F)

: PARTS LOCATION

Code		See Page	Code		See Page	Code	See Page
A7	C	36	A36		40	J14	39
A8	A	36	A37		40	J21	39
A9	B	36	C14	A	38	J22	39
A10	D	36	C15	B	38	J25	39
A11		36	C17	D	38	J35	40
A12		36	D1		36	J36	40
A20		38	D8		38	S5	39
A21	C	38	J2		39	S6	39
A22	B	38	J9		39		
A23	A	38	J11		39		

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	21	Engine Room No. 2 Wire and Engine Room J/B (Engine Compartment Left)
1D		
1E		
1J	21	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B	24	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2J	24	Engine Room No. 2 Wire and Cowl Side J/B LH (Left Kick Panel)
2O	24	Floor Wire and Cowl Side J/B LH (Left Kick Panel)
2P	26	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)

ABS

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	46	Floor Wire and Engine Room No. 2 Wire (Left Kick Panel)
ID1	46	Dash Wire and Floor Wire (Left Kick Panel)
IG3	48	Engine Room No. 2 Wire and Dash Wire (Behind the Combination Meter)
IJ1	48	Dash Wire and Detector Wire (Instrument Panel Center)
IN1	50	Engine Wire and Dash Wire (Behind the Glove Box)
IW1	52	Engine Room No. 2 Wire and Dash Wire (Behind the Glove Box)
IX1	52	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
BF2	54	Floor No. 3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BI3	56	Frame Wire and Floor No. 3 Wire (Left Side of Rear Floor Crossmember)

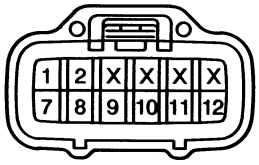
: GROUND POINTS

Code	See Page	Ground Points Location
EA	44	Front Right Side of Fender Apron
EB	44	
EC	44	Rear Bank of Right Cylinder Head
EE	44	Front Left Side of Fender Apron

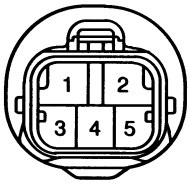
: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	44	Engine Room No. 2 Wire	I2	48	Engine Room No. 2 Wire

A7 (C)
BLACK



A8 (A)
GRAY



A9 (B)
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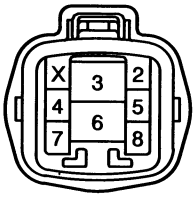


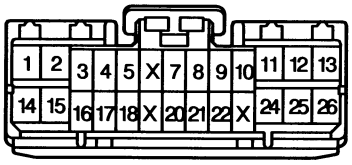
A10 (D)
GRAY

A11
DARK GRAY

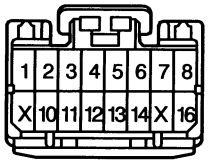
A12
GRAY

A20
BLACK

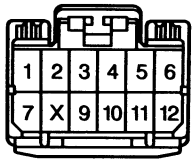
A21 (A)



A22 (B)

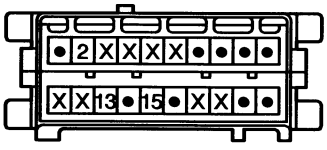


A23 (C)

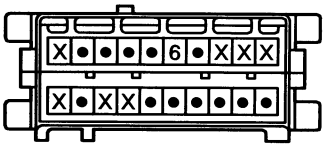


A36, A37
GRAY

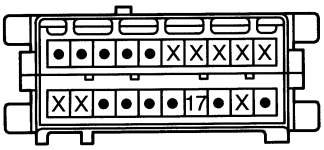
C14 (A)



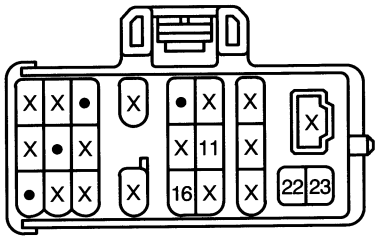
C15 (B)



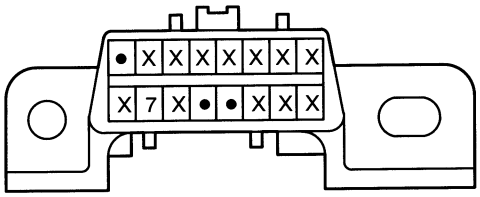
C17 (D)



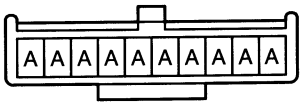
D1
BLACK



D8
BLACK

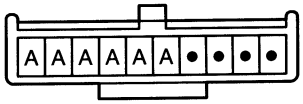


J2



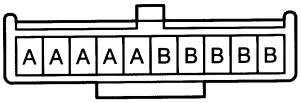
(Hint : See Page 7)

J9
BLACK



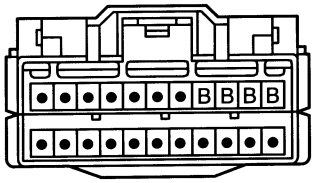
(Hint : See Page 7)

J11
GREEN



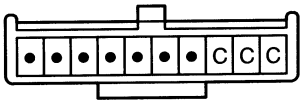
(Hint : See Page 7)

J14



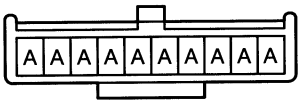
(Hint : See Page 7)

J21
BLUE



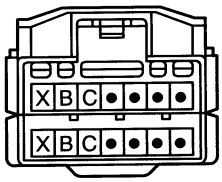
(Hint : See Page 7)

J22



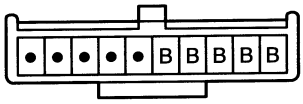
(Hint : See Page 7)

J25



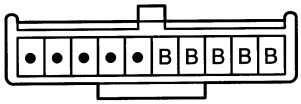
(Hint : See Page 7)

J35
GREEN



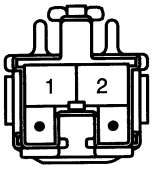
(Hint : See Page 7)

J36
GREEN



(Hint : See Page 7)

S5
BLUE



S6