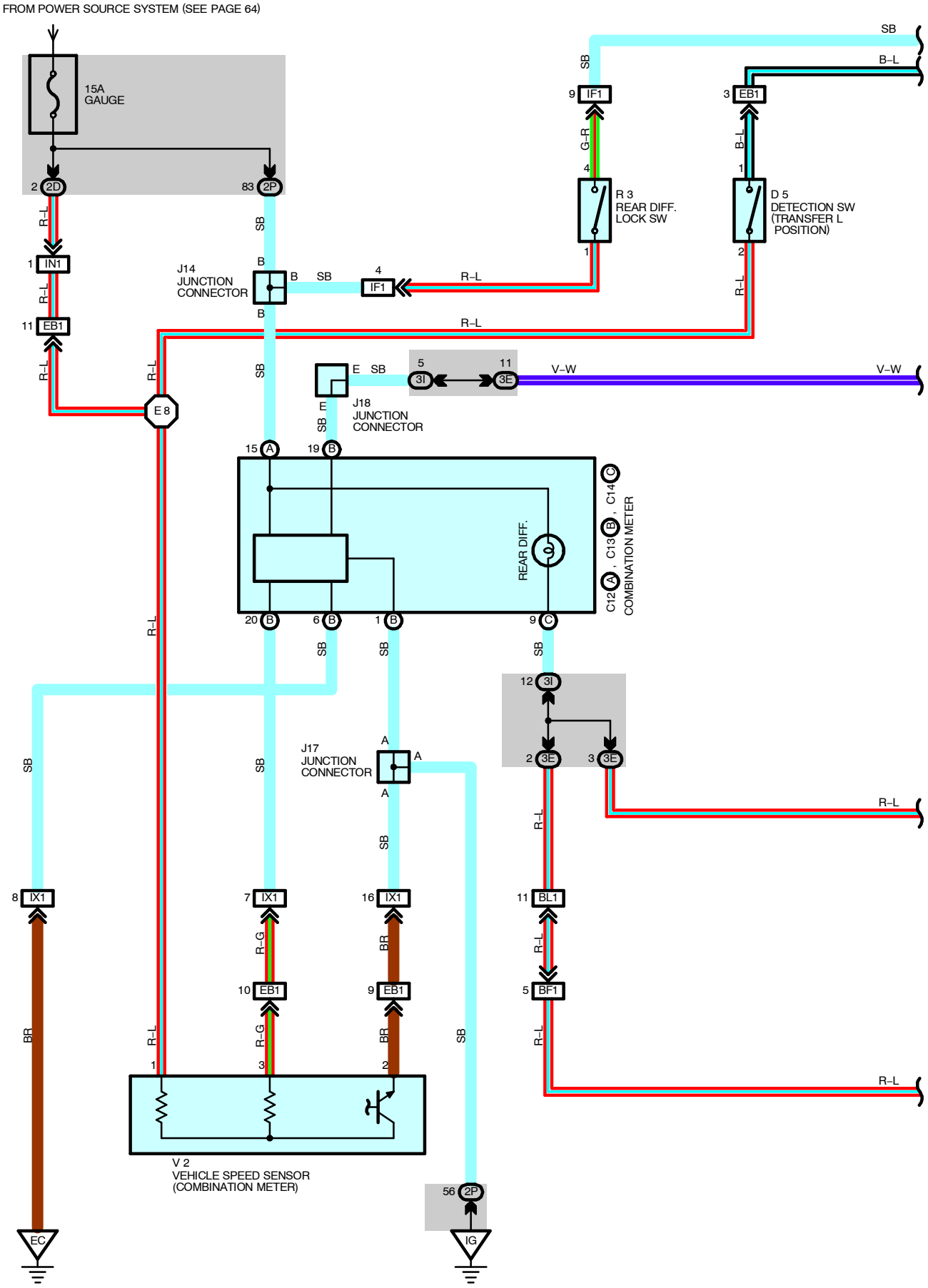
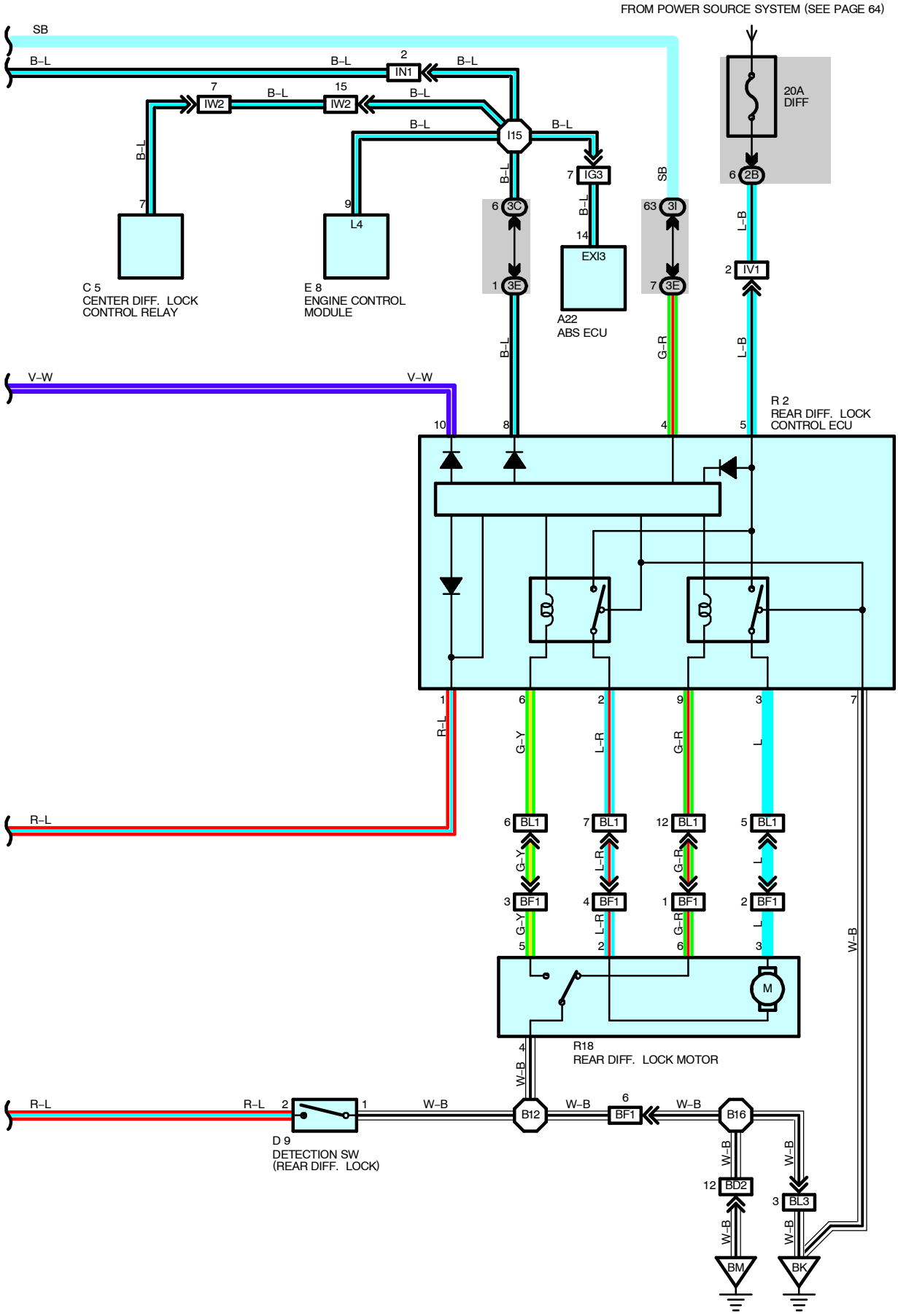
REAR DIFFERENTIAL LOCK




FROM POWER SOURCE SYSTEM (SEE PAGE 64)
SB
B–L
IN1
IW2
I15
IG3
3C
3E
3I
EXI3
2B
IV1
20A
DIFF
C 5
CENTER DIFF. LOCK
CONTROL RELAY
E 8
ENGINE CONTROL
MODULE
L4
A22
ABS ECU
V–W
R 2
REAR DIFF. LOCK
CONTROL ECU
R–L
G–Y
L–R
G–R
L
W–B
BL1
BF1
M
R18
REAR DIFF. LOCK MOTOR
B12
B16
BD2
BL3
BM
BK
D 9
DETECTION SW
(REAR DIFF. LOCK)

REAR DIFFERENTIAL LOCK

SYSTEM OUTLINE

This system locks/frees the rear differential by operation of the rear diff. lock SW.

* With the ignition SW turned on, rear diff. lock SW on, transfer lever in L, and the speed below 8 km/h (5 mph), the relay installed in the rear diff. lock control ECU is turned on through control of the rear diff. lock control ECU, and the current flows from DIFF fuse to rear diff. lock control ECU TERMINAL 5 to TERMINAL 3 to rear diff. lock motor TERMINAL 3 to TERMINAL 2 to rear diff. lock control ECU TERMINAL 2 to TERMINAL 7 to GROUND. As a result, the rear differential lock operates and the rear differential is locked. At the same time, the detection SW (Rear diff. lock) is turned on, and the rear diff. indicator light in the combination meter lights up.
* When the rear diff. lock SW is turned to off from on, the relay installed in the rear diff. lock control ECU is turned on through control of the rear diff. lock control ECU, and the current flows from DIFF fuse to rear diff. lock control ECU TERMINAL 5 to TERMINAL 2 to rear diff. lock motor TERMINAL 2 to TERMINAL 3 to rear diff. lock control ECU TERMINAL 3 to TERMINAL 7 to GROUND. As a result, the rear differential lock operates and the rear differential is made free. At the same time, the detection SW (Rear diff. lock) is turned off, and the rear diff. indicator light in the combination meter is turned off.

The rear diff. indicator light blinks under the following conditions :

* When the rear diff. lock SW is turned on with the ignition SW on and the transfer lever at a position other than L.
* When the rear diff. lock SW is turned on at a speed over 8 km/h (5 mph), with the ignition SW on and the transfer position lever at L position.
* When the rear diff. lock motor is operating the rear differential to free from lock, and the detection SW (Rear diff. lock) is off.

SERVICE HINTS

R2 REAR DIFF. LOCK CONTROL ECU

5–GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position
4–GROUND : Approx. **12** volts with ignition SW at **ON** or **ST** position and rear diff. lock SW at **ON** position
7–GROUND : Always continuity

: PARTS LOCATION

Code		See Page	Code	See Page	Code	See Page
A22		40	D5	38	J18	41
C5		40	D9	42	R2	41
C12	A	40	E8	40	R3	41
C13	B	40	J14	41	R18	43
C14	C	40	J17	41	V2	39

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
2B	26	Dash Wire and Cowl Side J/B LH (Left Kick Panel)
2D		
2P	28	Instrument Panel Integration Wire and Cowl Side J/B LH (Left Kick Panel)
3C	32	Dash Wire and Cowl Side J/B RH (Right Kick Panel)
3E	32	Floor No.2 Wire and Cowl Side J/B RH (Right Kick Panel)
3I	32	Instrument Panel Integration Wire and Cowl Side J/B RH (Right Kick Panel)

: CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
EB1	46	Engine Wire and Transmission Wire (On the Transmission)
IF1	48	Instrument Panel Integration Wire and Instrument Panel Wire (Left Side of Instrument Panel)
IG3	50	Engine Room No.2 Wire and Dash Wire (Behind the Combination Meter)
IN1	52	Engine Wire and Dash Wire (Behind the Glove Box)
IV1	54	Dash Wire and Floor No.2 Wire (Behind the Glove Box)
IX1	54	Instrument Panel Integration Wire and Engine Wire (Behind the Glove Box)
IW2	54	Engine Room No.2 Wire and Dash Wire (Behind the Glove Box)
BD2	56	Floor No.3 Wire and Floor Wire (Left Rear Side Quarter Panel)
BF1	56	Frame Wire and Floor No.3 Wire (Left Side of Rear Floor Crossmember)
BL1	58	Floor No.2 Wire and Floor No.3 Wire (Right Side of Rear Floor Crossmember)
BL3		

: GROUND POINTS

Code	See Page	Ground Points Location
EC	46	Rear Bank of Right Cylinder Head
IG	48	Set Bolt of Cowl Side J/B LH
BK	56	Front Side Under the Front Passenger's Seat
BM	56	Left Rear Side Quarter Panel

: SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
E8	46	Transmission Wire	B12	58	Frame Wire
I15	50	Dash Wire	B16	58	Floor No.3 Wire