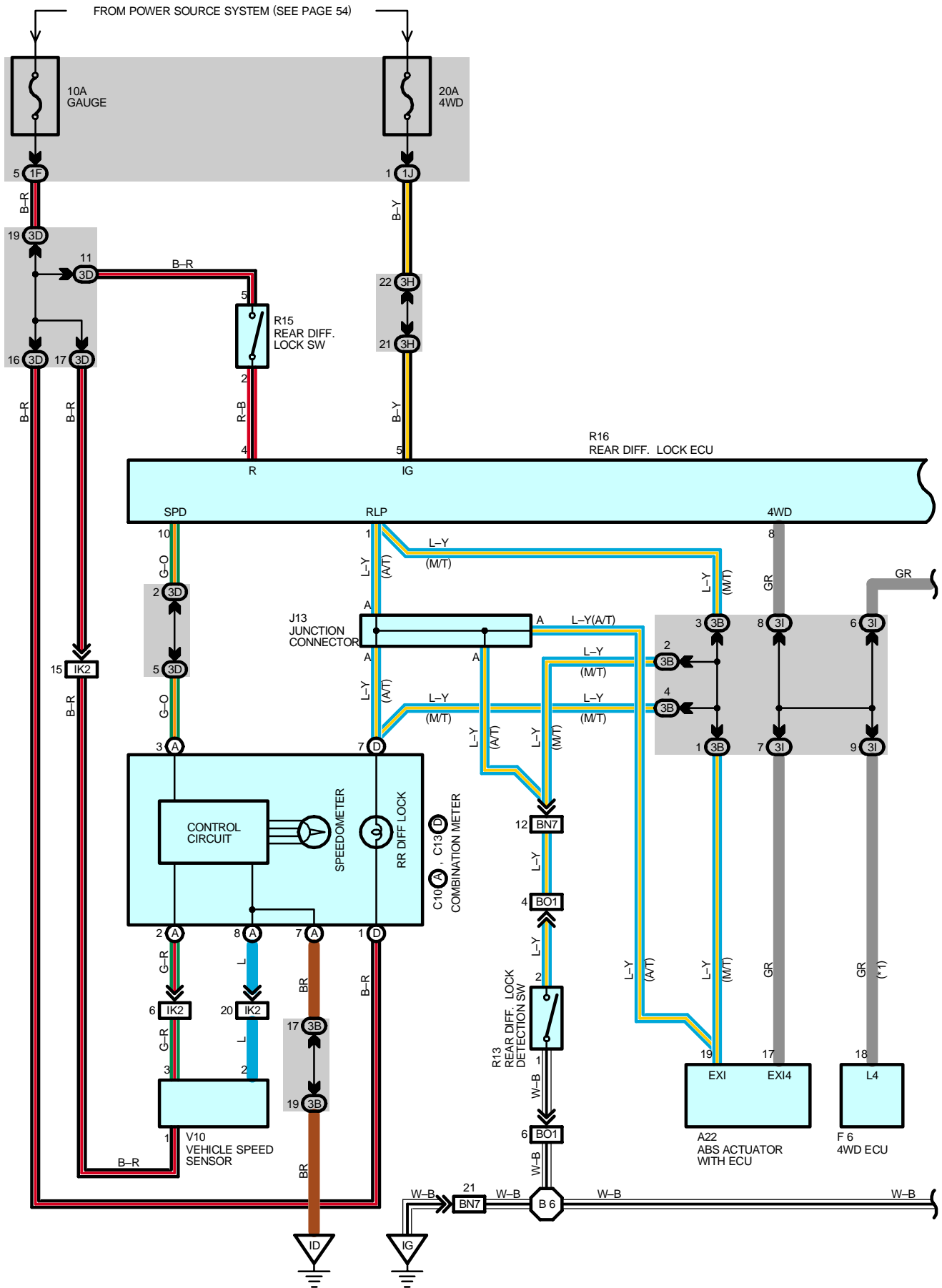
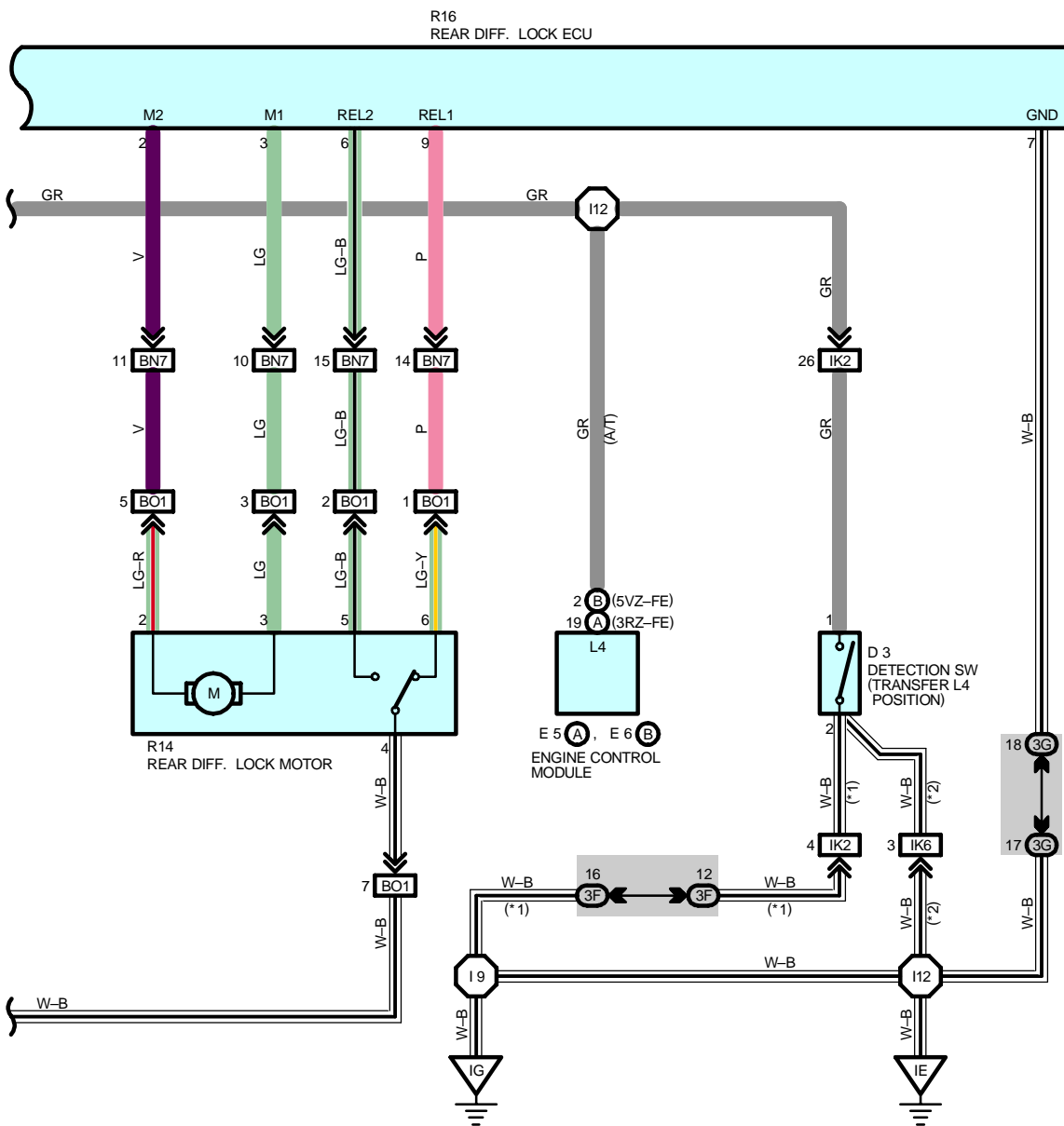


REAR DIFFERENTIAL LOCK



- * 1 : W/ 2-4 SELECT SW
- * 2 : W/O 2-4 SELECT SW



REAR DIFFERENTIAL LOCK

SYSTEM OUTLINE

This system frees or locks the rear differential according to the position of the rear diff. lock SW. The differential will lock only when the rear diff. lock detection SW is on and the vehicle speed is at 8 km/h (5 mph) or less.

When the rear diff. lock SW is switched from OFF position to ON position, current flows to TERMINAL 4 of the rear diff. lock ECU. If the limit SW on the lock side inside the rear diff. lock motor is on at this time, until the limit SW is turned off, current flows from the 4WD fuse to TERMINAL 5 of the rear diff. lock ECU to TERMINAL 3 to TERMINAL 3 of the rear diff. lock motor to TERMINAL 2 to TERMINAL 2 of the rear diff. lock ECU to TERMINAL 7 to GROUND. This drives the rear diff. lock motor and locks the rear differential. When the rear differential locks, the rear diff. lock detection SW turns on, lighting up the rear diff. lock indicator light in the combination meter.

When the rear diff. lock SW is switched from ON position to OFF position, the current to TERMINAL 4 of the rear diff. lock ECU is cut off. If the limit SW on the free side inside the rear diff. lock motor is on, until the limit SW is turned off, current flows from the 4WD fuse to TERMINAL 5 of the rear diff. lock ECU to TERMINAL 2 to TERMINAL 2 of the rear diff. lock motor to TERMINAL 3 to TERMINAL 3 of the rear diff. lock ECU to TERMINAL 7 to GROUND. This drives the rear diff. lock motor and frees the rear differential. When the rear differential is free, the rear diff. lock detection SW and the rear diff. lock indicator light in the combination meter are turned off.

The rear diff. lock indicator light flashes when:

- * The rear diff. lock SW is switched to ON position during differential lock prohibition conditions (Vehicle speed above 8 km/h (5 mph)).
- * The rear diff. lock detection SW is turned off during operation of the rear diff. lock motor.

SERVICE HINTS

R15 REAR DIFF. LOCK SW

5-2 : Closed with the diff. lock SW at **ON** position

R16 REAR DIFF. LOCK ECU

(Disconnected wiring connector from ECU)

7-GROUND : Always continuity

10-GROUND : Pulse generation with vehicle moving

5-GROUND : **9-14** volts with the ignition SW on

1-GROUND : About **0** volts with the rear diff. lock indicator light on
: **9-14** volts with the rear diff. lock indicator light off

R14 REAR DIFF. LOCK MOTOR

2-3 : **0.3-100** Ω

○ : PARTS LOCATION

Code	See Page	Code	See Page	Code	See Page
A22	30 (5VZ-FE)	E5	A	35	R14
	32 (3RZ-FE)	E6	B	35	
C10	A	34	F6	35	R15
C13	D	34	J13	35	R16
D3	30 (5VZ-FE)	R13	36 (Double Cab)	V10	31 (5VZ-FE)
	32 (3RZ-FE)		37 (Except Double Cab)		33 (3RZ-FE)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

Code	See Page	Junction Block and Wire Harness (Connector Location)
1F	23	Cowl Wire and J/B No.1 (Lower Finish Panel)
1J		
3B	24	Cowl Wire and J/B No.3 (Behind the Instrument Panel Left)
3D		
3F		
3G	26	Cowl Wire and J/B No.3 (Behind the Instrument Panel Center)
3H		
3I		

 : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IK2	44	Engine Wire and Cowl Wire (Above the Glove Box)
IK6		
BN7	46 (Double Cab) 48 (Except Double Cab)	Frame Wire and Cowl Wire (Under the Driver's Seat)
BO1	46 (Double Cab) 48 (Except Double Cab)	Frame Wire and Differential No.2 Wire (Rear Side Member LH)

 : GROUND POINTS

Code	See Page	Ground Points Location
ID	44	Left Kick Panel
IE	44	Around the Right Edge of the Reinforcement
IG	44	Around the Left Edge of the Reinforcement

 : SPLICE POINTS

Code	See Page	Wire Harness with Splice Points	Code	See Page	Wire Harness with Splice Points
I9	44	Cowl Wire	B6	46 (Double Cab)	Frame Wire
I12				48 (Except Double Cab)	