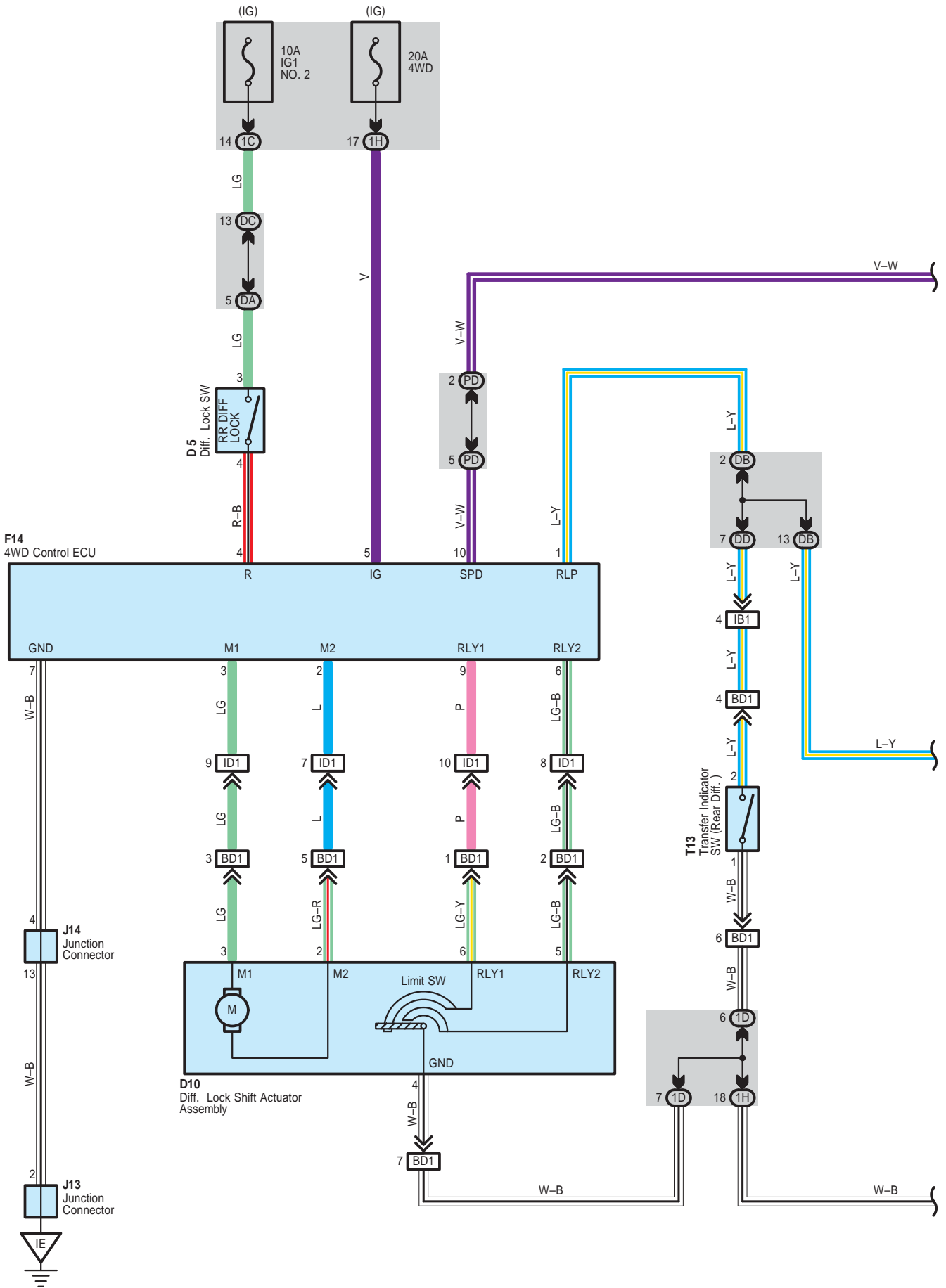
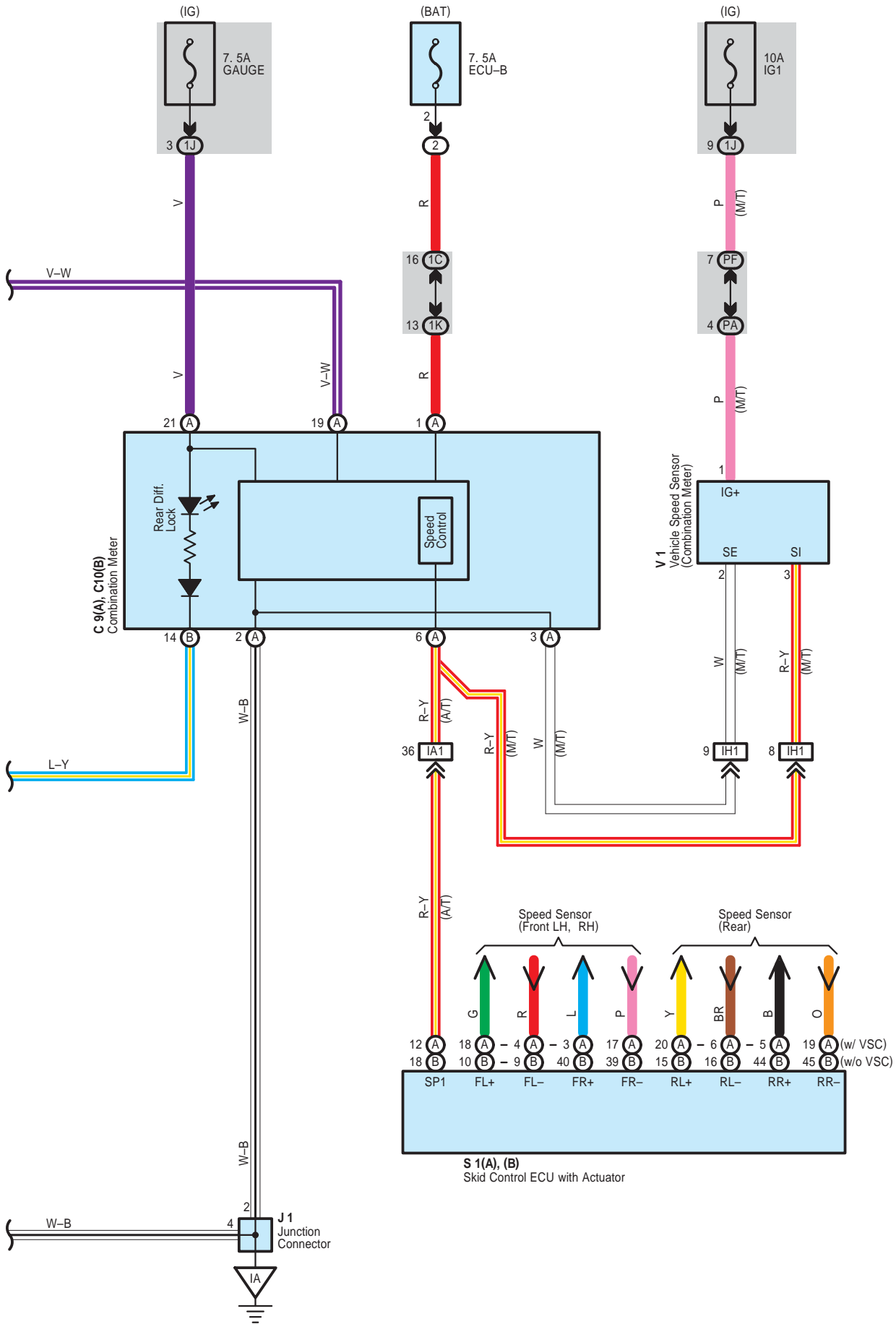


Rear Differential Lock for 2WD





Rear Differential Lock for 2WD

System Outline

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

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

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

The rear diff. lock indicator light flashes when:

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

○ : Parts Location

Code		See Page	Code	See Page	Code	See Page	
C9	A	44	J1	45	T13	47 (*1)	
C10	B	44	J13	45		48 (*2)	
D5		44	J14	45		49 (*3)	
D10		46 (*1)	S1	A	V1	41 (1GR-FE)	
		48 (*2)				43 (2TR-FE)	43 (2TR-FE)
		49 (*3)				41 (1GR-FE)	
F14	44	B		43 (2TR-FE)			

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	24	Engine Room R/B (Engine Compartment Left)

○ : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1C	28	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1D	28	Frame Wire and Driver Side J/B (Lower Finish Panel)
1H	29	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1K		
DA	34	Instrument Panel Wire and Instrument Panel J/B No.1 (Left Kick Panel)
DB		
DC	34	Engine Room Main Wire and Instrument Panel J/B No.1 (Left Kick Panel)
DD		
PA	36	Engine Wire and Instrument Panel J/B No.2 (Right Side of Glove Box)
PD	36	Instrument Panel Wire and Instrument Panel J/B No.2 (Right Side of Glove Box)
PF		

* 1 : Double Cab * 2 : Access Cab * 3 : Regular Cab * 4 : Separate Seat * 5 : Bench Seat

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA1	54	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
IB1	54	Frame Wire and Engine Room Main Wire (Left Kick Panel)
ID1	54	Frame Wire and Instrument Panel Wire (Left Kick Panel)
IH1	55	Engine Wire and Instrument Panel Wire (Right Side of Glove Box)
BD1	56 (*1)	Frame Wire and Differential Wire (Near the Rear Differential)
	57 (*2)	
	58 (*3)	

 : Ground Points

Code	See Page	Ground Points Location
IA	54	Left Kick Panel
IE	54	Right Kick Panel

* 1 : Double Cab * 2 : Access Cab * 3 : Regular Cab * 4 : Separate Seat * 5 : Bench Seat