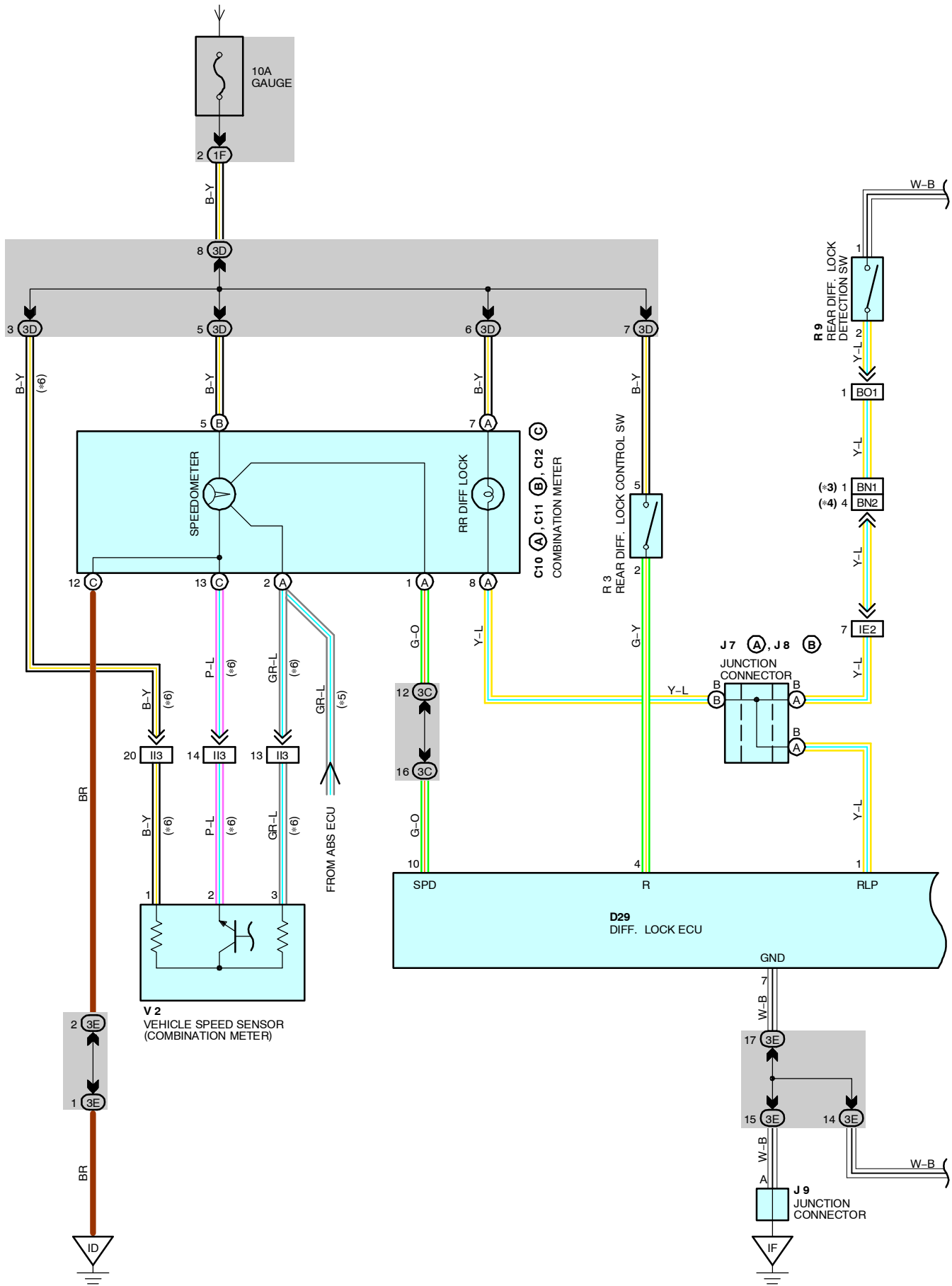




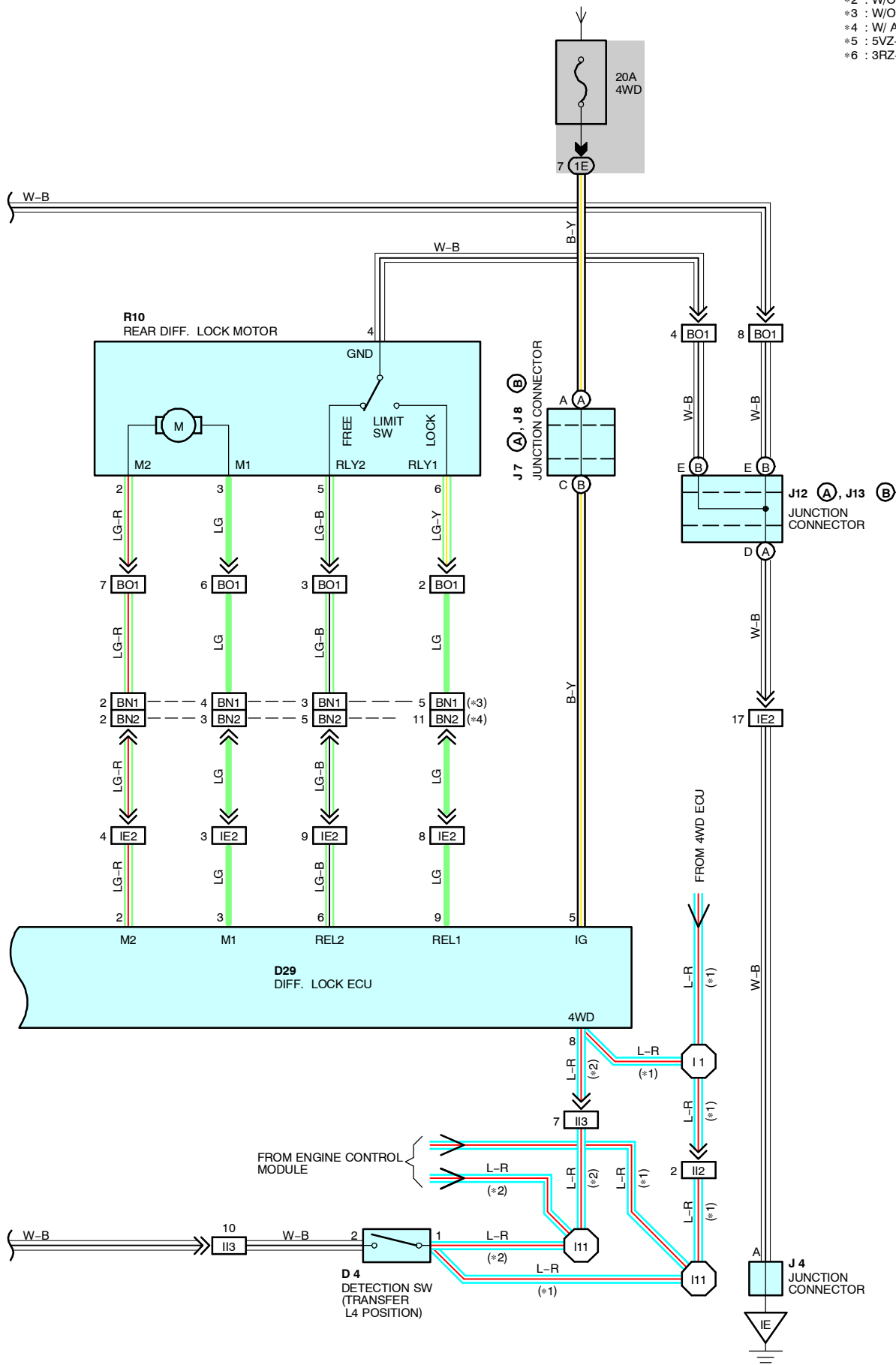
REAR DIFFERENTIAL LOCK

FROM POWER SOURCE SYSTEM (SEE PAGE 58)



FROM POWER SOURCE SYSTEM (SEE PAGE 58)

- *1 : W/ 2-4 SELECT SW
- *2 : W/O 2-4 SELECT SW
- *3 : W/O ABS
- *4 : W/ ABS
- *5 : 5VZ-FE
- *6 : 3RZ-FE





REAR DIFFERENTIAL LOCK

SYSTEM OUTLINE

THIS SYSTEM FREES OR LOCKS THE REAR DIFFERENTIALS ACCORDING TO THE POSITION OF THE REAR DIFF. LOCK CONTROL 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 CONTROL SW IS SWITCHED FROM **OFF** POSITION TO **ON** POSITION, THE CURRENT FLOWS TO **TERMINAL 4** OF THE 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, THE CURRENT FLOWS FROM THE **4WD** FUSE TO **TERMINAL 5** OF THE DIFF. LOCK ECU → **TERMINAL 3** → **TERMINAL 3** OF THE REAR DIFF. LOCK MOTOR → **TERMINAL 2** → **TERMINAL 2** OF THE DIFF. LOCK ECU → **TERMINAL 7** → **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 CONTROL SW IS SWITCHED FROM **ON** POSITION TO **OFF** POSITION. CURRENT TO **TERMINAL 4** OF THE 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, THE CURRENT FLOWS FROM THE **4WD** FUSE TO **TERMINAL 5** OF THE DIFF. LOCK ECU → **TERMINAL 2** → **TERMINAL 2** OF THE REAR DIFF. LOCK MOTOR → **TERMINAL 3** → **TERMINAL 3** OF THE DIFF. LOCK ECU → **TERMINAL 7** → **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 DIFF. LOCK INDICATOR LIGHT FLASHES WHEN:

- * THE REAR DIFF. LOCK CONTROL 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

R 3 REAR DIFF. LOCK CONTROL SW

5-2 : CLOSED WITH THE DIFF. LOCK SW AT ON POSITION

D29 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

R10 REAR DIFF. LOCK MOTOR

2-3 : **0.3-100** Ω

○ : PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C10	A	30	J 4	31	J13 B 32
C11	B	30	J 7 A	31	R 3 31
C12	C	30	J 8 B	31	R 9 33
D 4	26 (5VZ-FE), 28 (3RZ-FE)	J 9	31	R10	33
D29	31	J12 A	32	V 2	29 (3RZ-FE)

○ : JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
IE	22	COWL WIRE AND DRIVER SIDE J/B (LOWER FINISH PANEL)
IF		
3C	24	COWL WIRE AND CENTER J/B (NEAR THE STEERING COLUMN TUBE)
3D		
3E		

□ : CONNECTOR JOINING WIRE HARNESS AND WIRE HARNESS

CODE	SEE PAGE	JOINING WIRE HARNESS AND WIRE HARNESS (CONNECTOR LOCATION)
IE2	40	COWL WIRE AND FLOOR NO.2 WIRE (LEFT KICK PANEL)
II2	40	ENGINE WIRE AND COWL WIRE (ON THE GLOVE BOX)
II3		
BN1	42	FRAME WIRE AND FLOOR NO.2 WIRE (UNDER THE LEFT SIDE OF REAR SEAT CUSHION)
BN2		
BO1	42	FRAME WIRE AND REAR DIFFERENTIAL WIRE (UPPER THE REAR AXLE HOUSING LEFT)



: GROUND POINTS

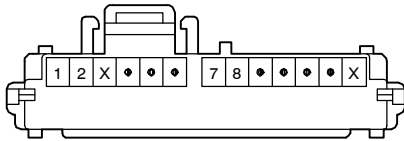
CODE	SEE PAGE	GROUND POINTS LOCATION
ID	40	LEFT KICK PANEL
IE	40	COWL SIDE PANEL LH
IF	40	COWL SIDE PANEL RH



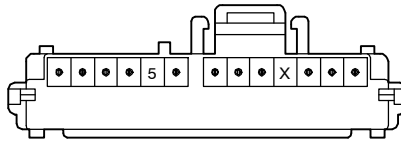
: SPLICE POINTS

CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS	CODE	SEE PAGE	WIRE HARNESS WITH SPLICE POINTS
I 1	40	COWL WIRE	I11	40	ENGINE WIRE

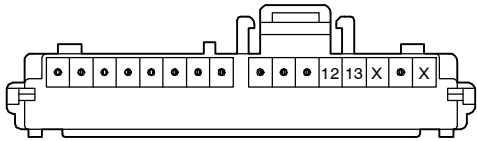
C10 (A) BROWN



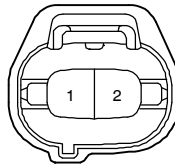
C11 (B) BLUE



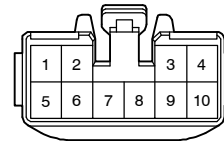
C12 (C)



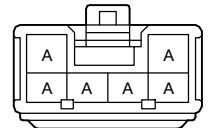
D 4 BLUE



D29

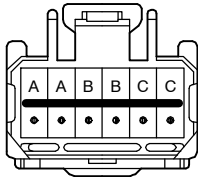


J 4, J 9



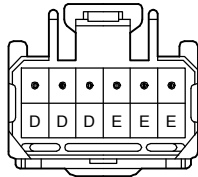
(HINT : SEE PAGE 7)

J 7 (A) , J 8 (B) BLACK



(HINT : SEE PAGE 7)

J12 (A) , J13 (B) BLACK

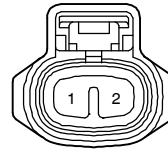


(HINT : SEE PAGE 7)

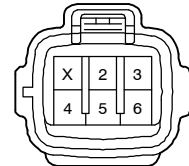
R 3



R 9 GRAY



R10 GRAY



V 2 BLACK

