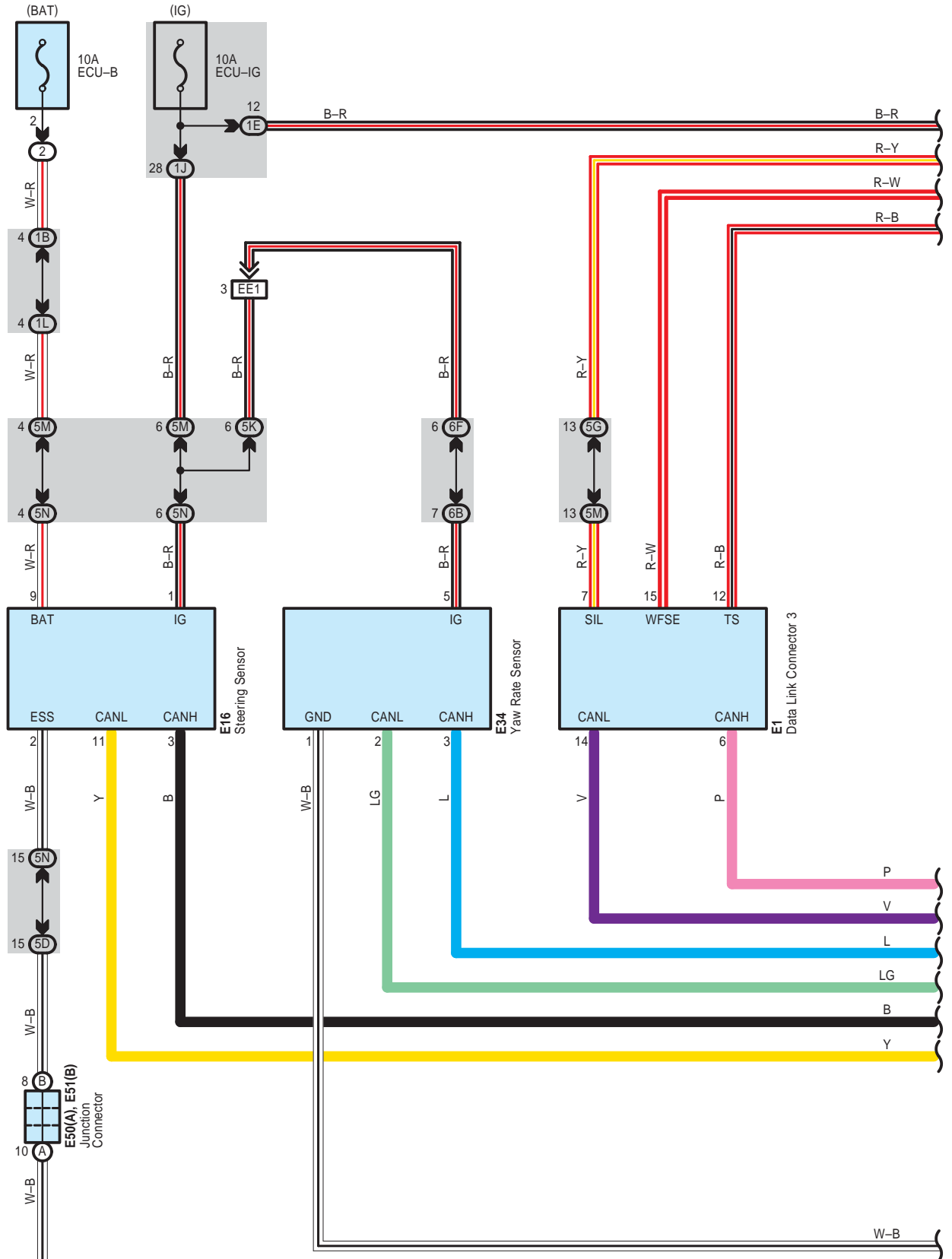
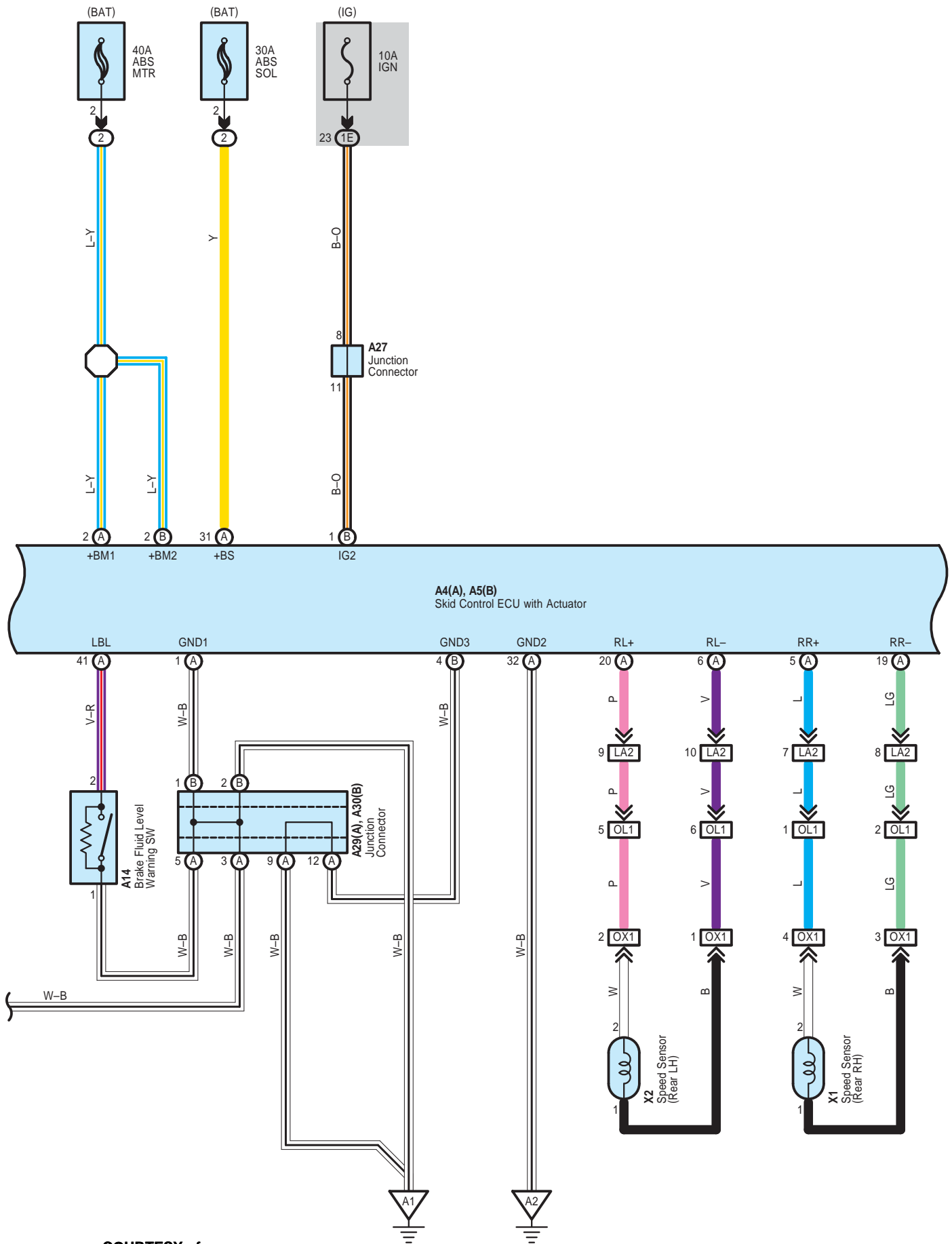
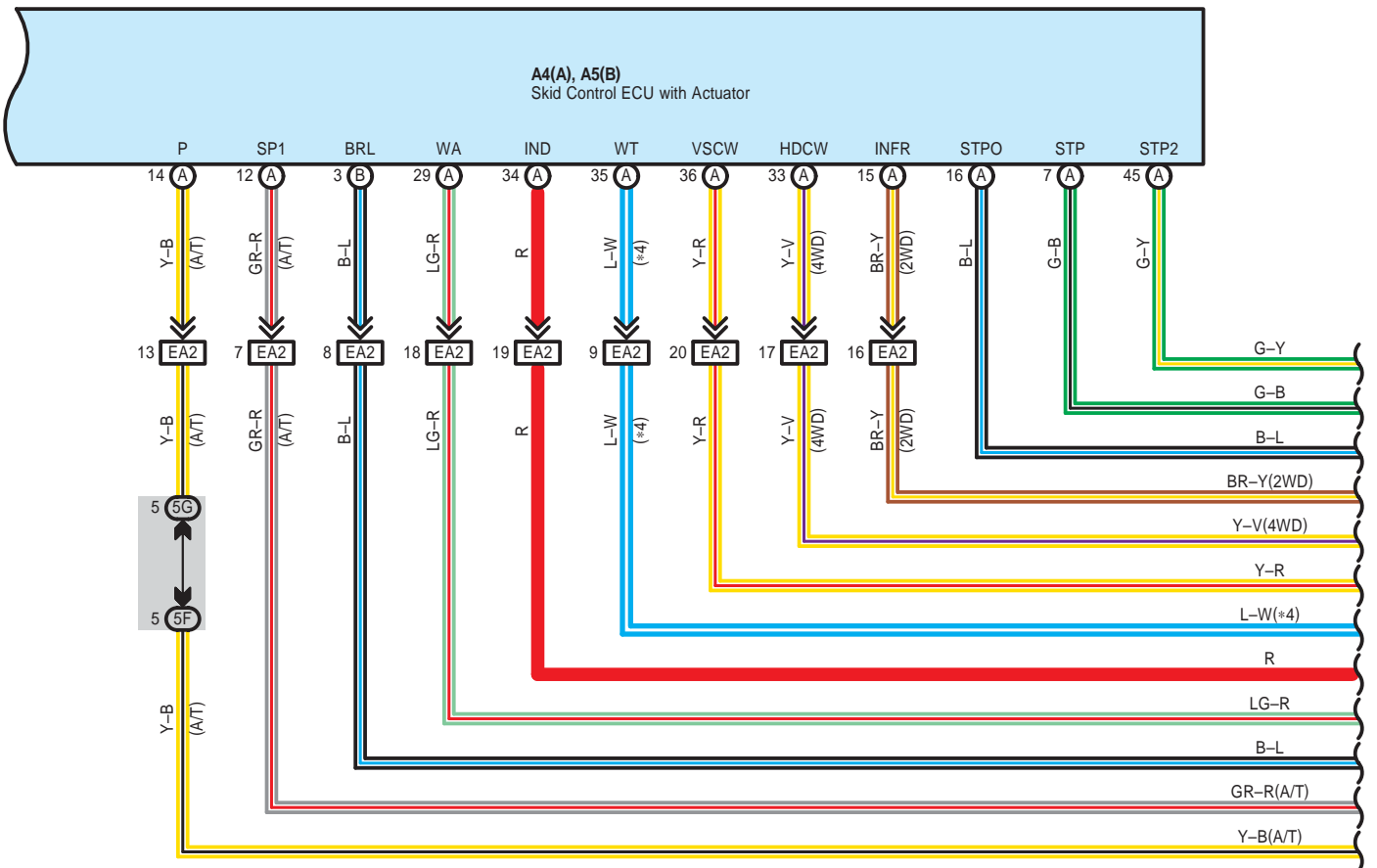


ABS, TRAC, VSC and Auto LSD

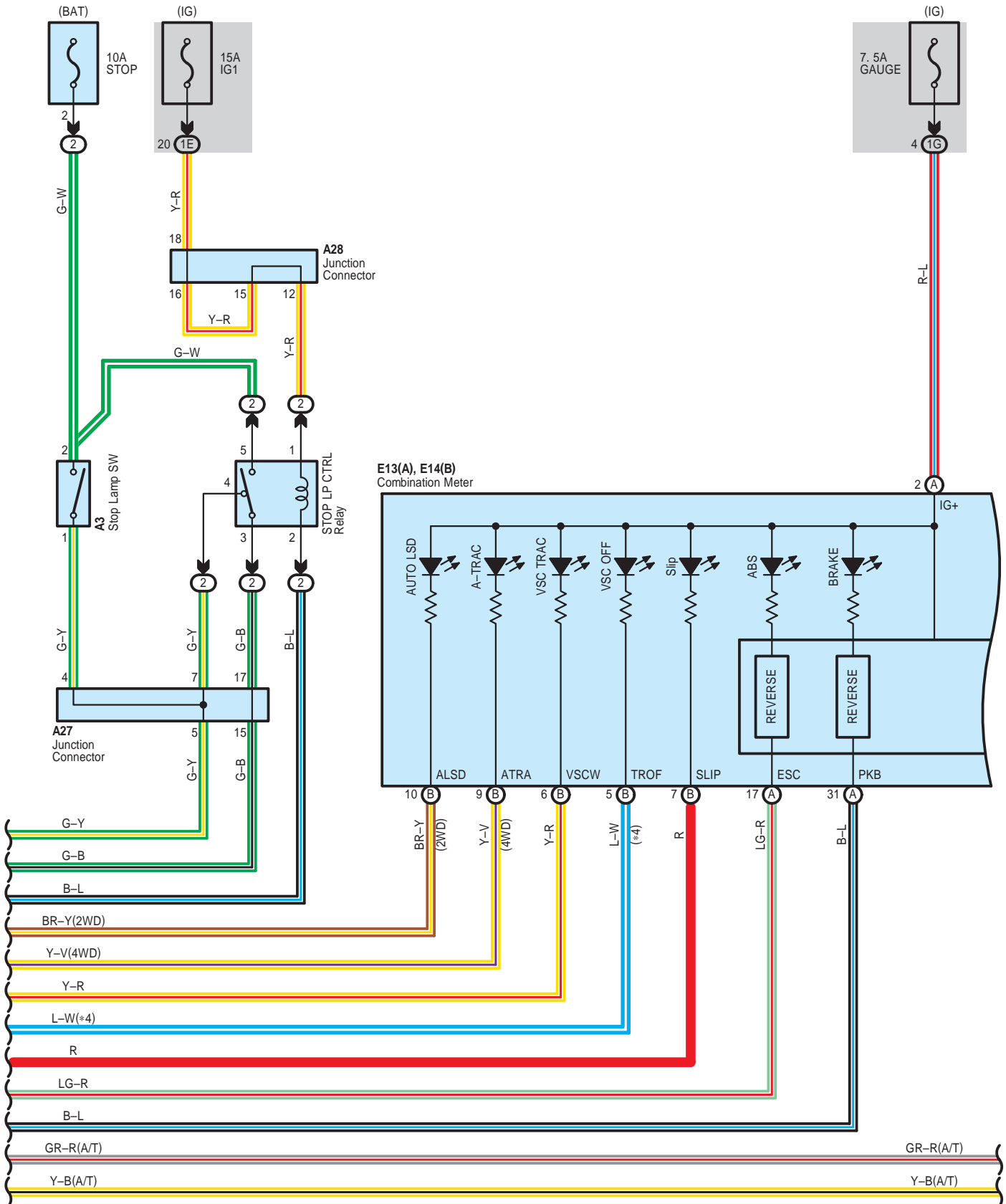


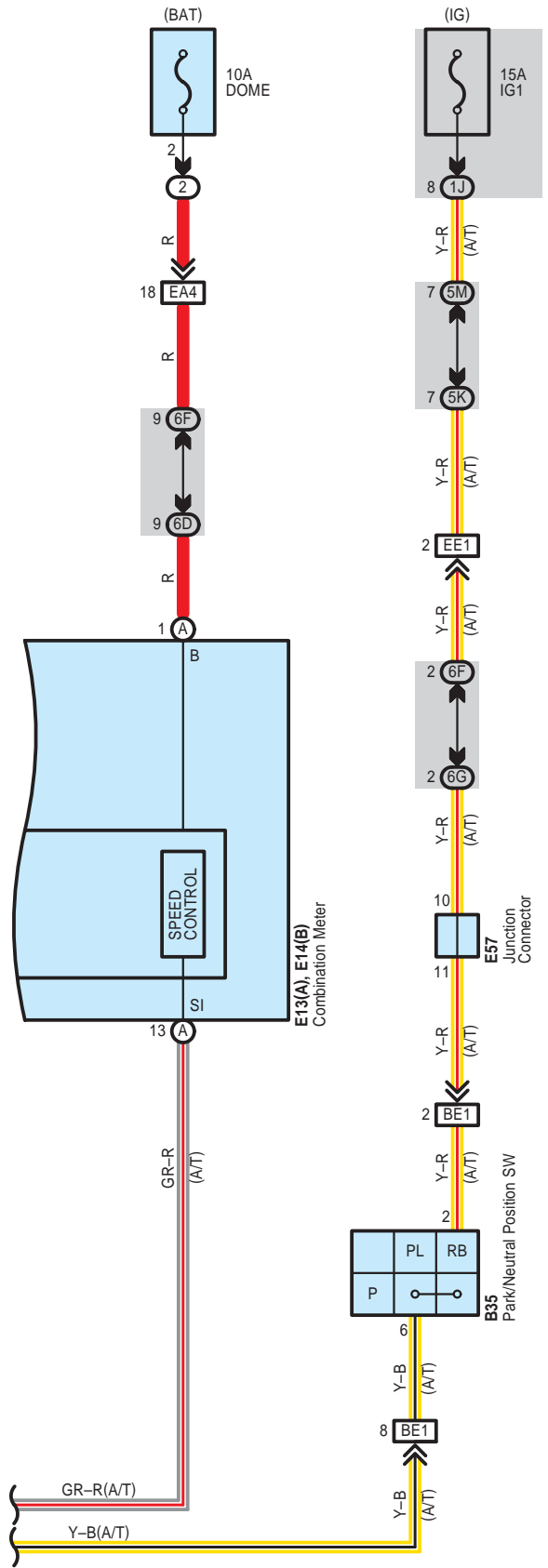


- * 1 : A/T 4WD
- * 2 : M/T 4WD
- * 3 : w/ Rear Diff. Lock
- * 4 : 4WD, 2WD w/ Rear Diff. Lock



ABS, TRAC, VSC and Auto LSD





* 4 : 4WD, 2WD w/ Rear Diff. Lock



ABS, TRAC, VSC and Auto LSD

System Outline

1. VSC (Vehicle Stability Control)

It is a system to prevent unstable behavior of the vehicle by controlling the brake of each wheel and engine output automatically after detecting skid caused by sudden steering operation and on slippery roads with the sensors.

VSC is not a system to enhance vehicle's marginal performance but to return the vehicle state back to the stable operation range when it enters in the operation marginal range.

2. ABS with EBD (Electronic Brake Force Distribution)

ABS detects the wheel speed at braking and prevents the tire lock at braking by controlling brake fluid pressure of the four wheels automatically. It is a system to ensure vehicle's stability and steering effect. By preventing the tire lock, cornering force is used efficiently.

ABS is effective to avoid the risk when the vehicle is steered during braking and the spin when the vehicle is braked with one side wheels on icy road and the other on asphalt road.

Besides conventional ABS functions, ABS with EBD controls appropriate brake force distribution between front and rear wheels, and left and right wheels regardless of load change such as vehicle weight with and without load, which ensures good braking performance

3. Brake Assist

The brake assist system interprets a quick push of the brake pedal as emergency braking and supplements the brake power applied if the driver has not stepped hard enough on the brake pedal.

4. Active TRAC (4WD)

In active traction control system, brake fluid pressure is controlled on slipped wheels by acceleration with 4WD in off-road driving and driving force which may be lost by acceleration slip is distributed to each wheels, resulting in excellent LSD effect.

5. TRAC

It is a function to ensure vehicle stability and driving force by preventing the drive wheels from slipping when starting off or accelerating on a slippery surface by controlling the brake fluid pressure and engine output automatically.

6. Auto LSD (2WD)

Auto LSD fulfills LSD functions by using the TRAC system. Comparing with TRAC, it controls focusing on how easily the vehicle can get out of the stuck condition and ensures to get out when one tire comes off the ground and to start off on roads with large travel resistance such as sandy roads.

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A3	45	D1	41	E57	44
A4	A 38	D2	47	E61	A 36, 44
A5	B 38	E1	42	E62	B 36, 44
A6	45	E3	42	E63	C 36, 44
A14	38	E13	A 42	E64	D 36, 44
A27	45	E14	B 42	E65	E 36, 44
A28	38	E15	42	E66	F 36, 44
A29	A 38	E16	42	L20	46
A30	B 38	E22	42	V1	41
B35	40	E34	43	W1	41
B40	40	E46	43	X1	47
B43	40	E50	A 44	X2	47
B45	45	E51	B 44		
B46	45	E52	44		

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	22	Engine Room R/B No.2 (Engine Compartment Left)

 : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1B	24	Engine Room Main Wire and Driver Side J/B (Lower Finish Panel)
1E		
1G	25	Instrument Panel Wire and Driver Side J/B (Lower Finish Panel)
1J		
1L		
5D	28	Instrument Panel Wire and Center J/B LH (Instrument Panel LH)
5F		
5G		
5K		
5M		
5N	32	Instrument Panel Wire and Center J/B RH (Instrument Panel RH)
6B		
6D		
6F		
6G		
6K		
6L		
6M		

 : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AV1	50	Engine Room Main Wire and Skid Control Sensor Front RH Wire (Right Fender Apron)
AW1	50	Engine Room Main Wire and Skid Control Sensor Front LH Wire (Near the Engine Room R/B No.2)
BD1	50	Engine Wire and Differential Wire (Near the Front Differential)
BE1	51	Engine Wire and Instrument Panel Wire (Upper the Glove Box)
BE2		
EA2	51	Instrument Panel Wire and Engine Room Main Wire (Left Kick Panel)
EA4		
EE1	51	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel RH)
LA2	51	Floor No.2 Wire and Engine Room Main Wire (Left Kick Panel)
OD1	52	Frame Wire and Differential Wire (No.6 Crossmember)
OL1	52	Frame Wire and Floor No.2 Wire (Under the Rear Seat)
OX1	52	Frame Wire and Skid Control Sensor Rear Wire (No.5 Crossmember)

 : Ground Points

Code	See Page	Ground Points Location
A1	50	Left Fender Apron
A2	50	Right Fender Apron
B3	50	Rear Side of Left Bank Cylinder Block
E1	51	Instrument Panel Brace RH
E2	51	Instrument Panel Brace LH
E4	51	Left Kick Panel
L2	52	Left Quarter Panel