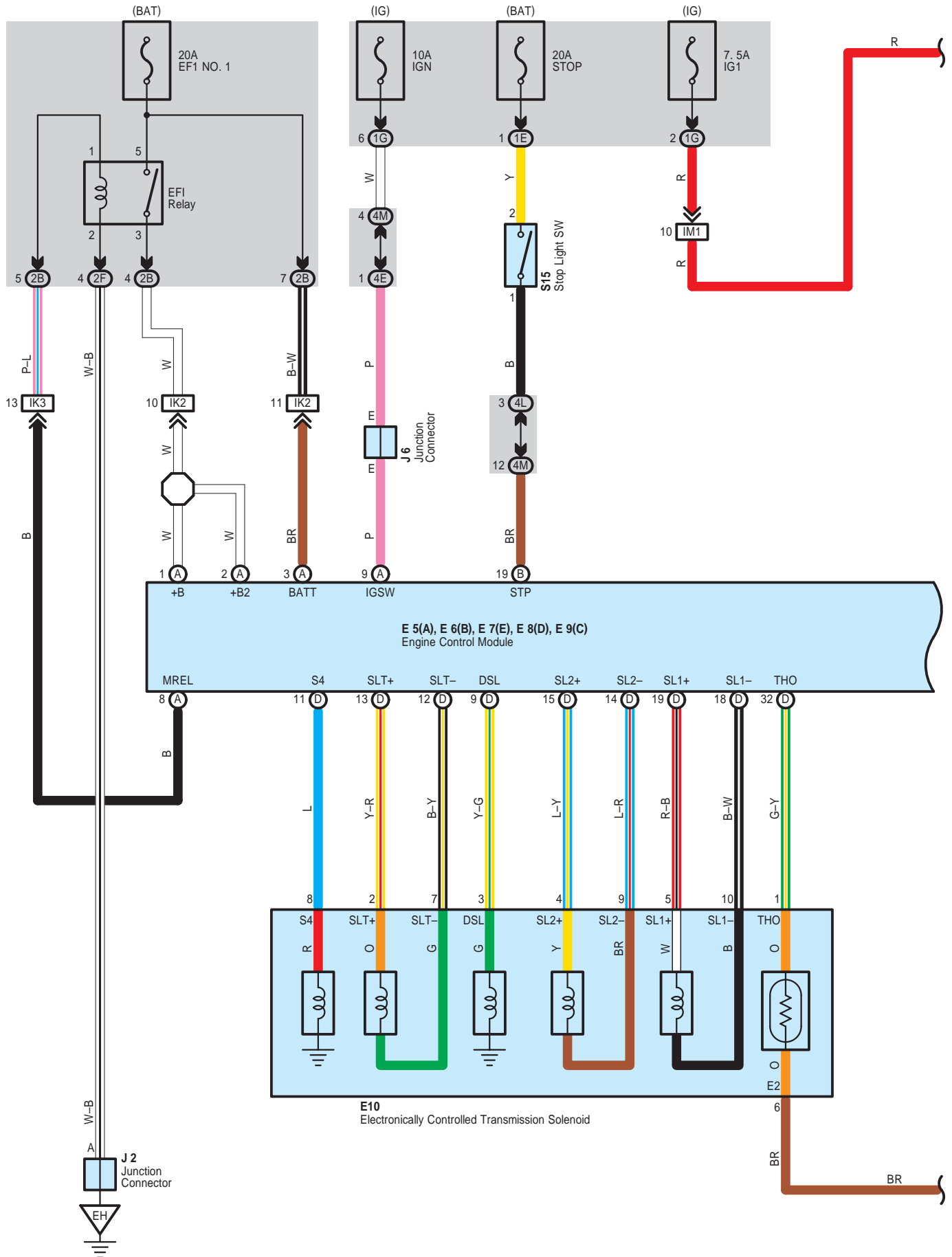
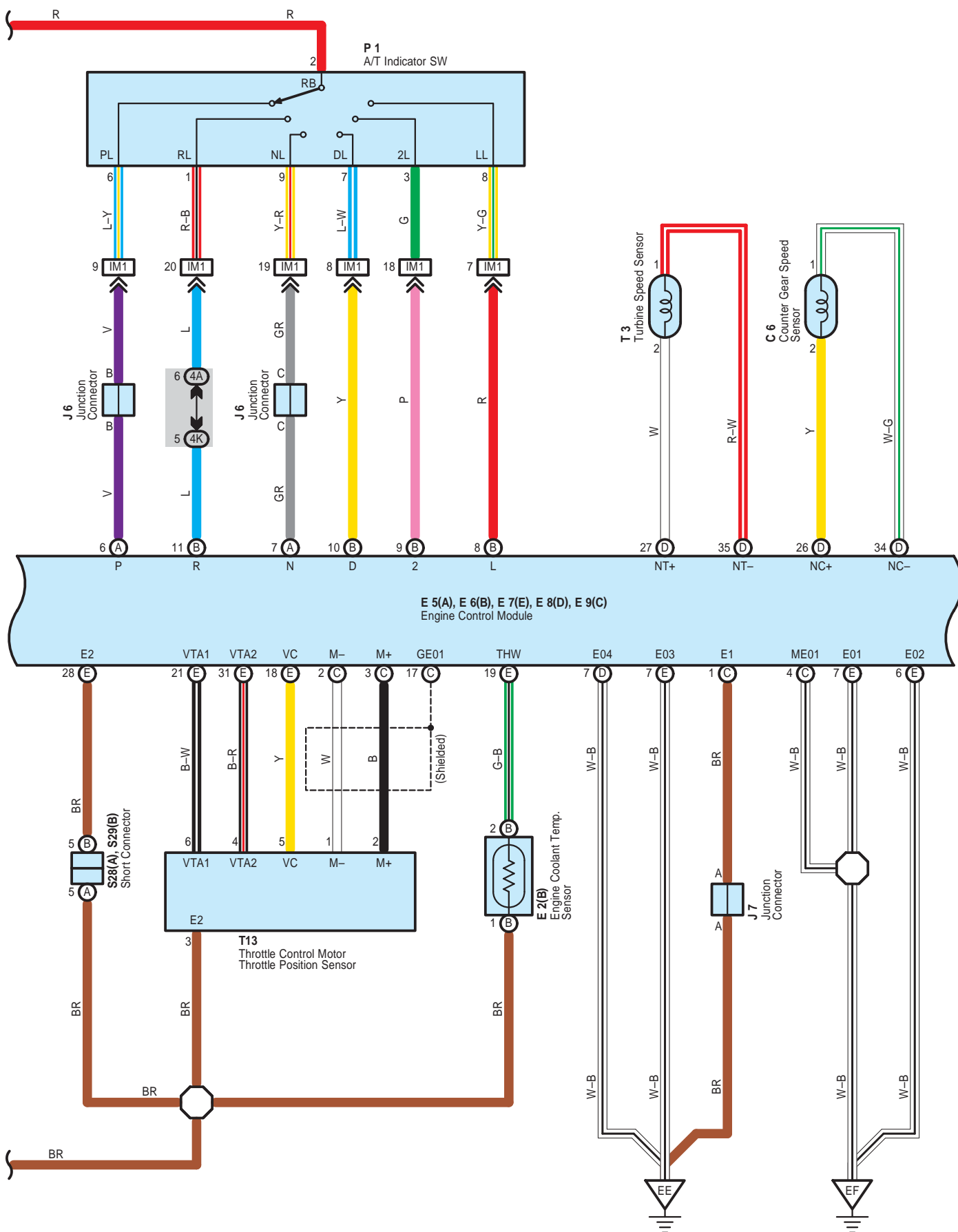
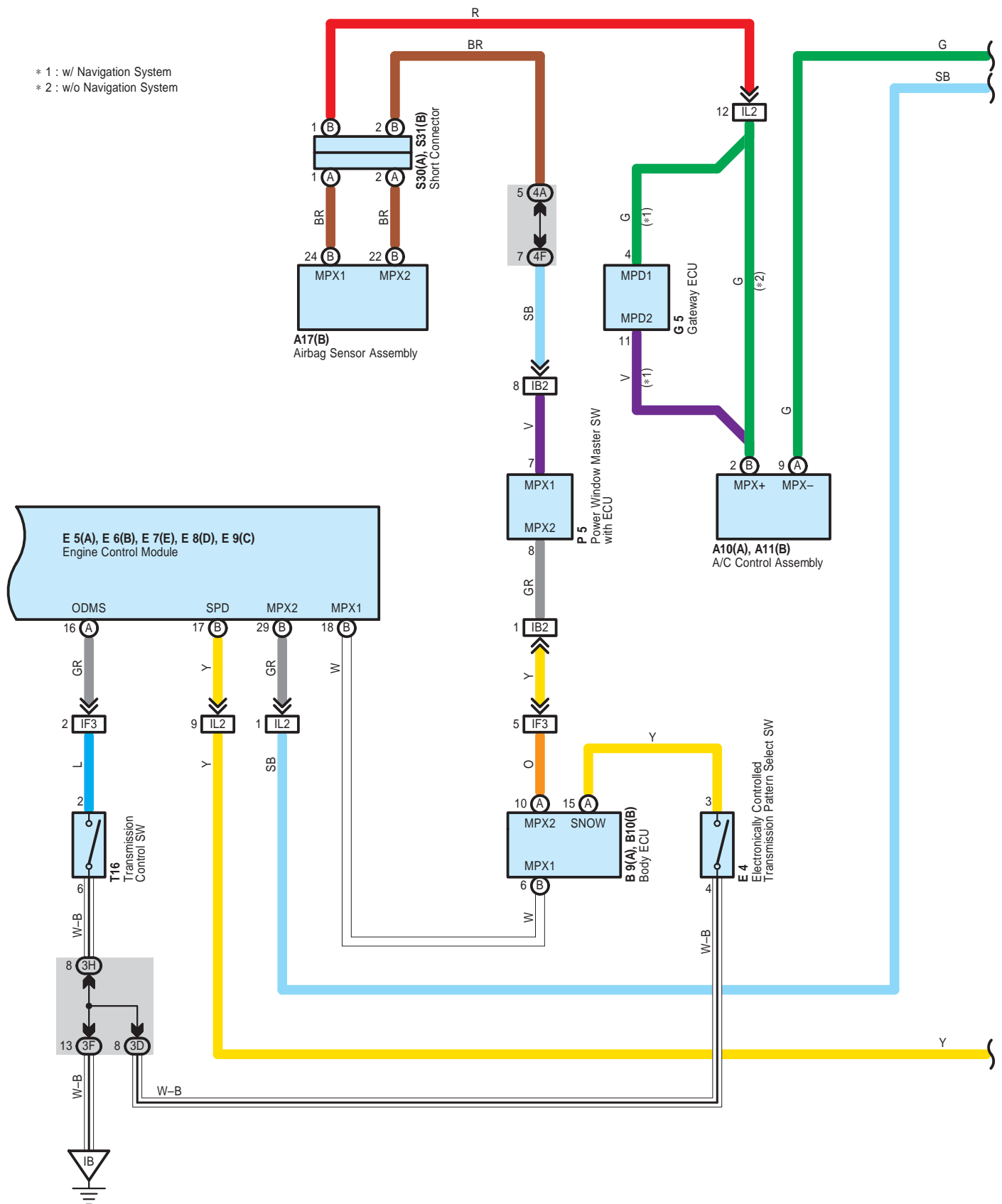


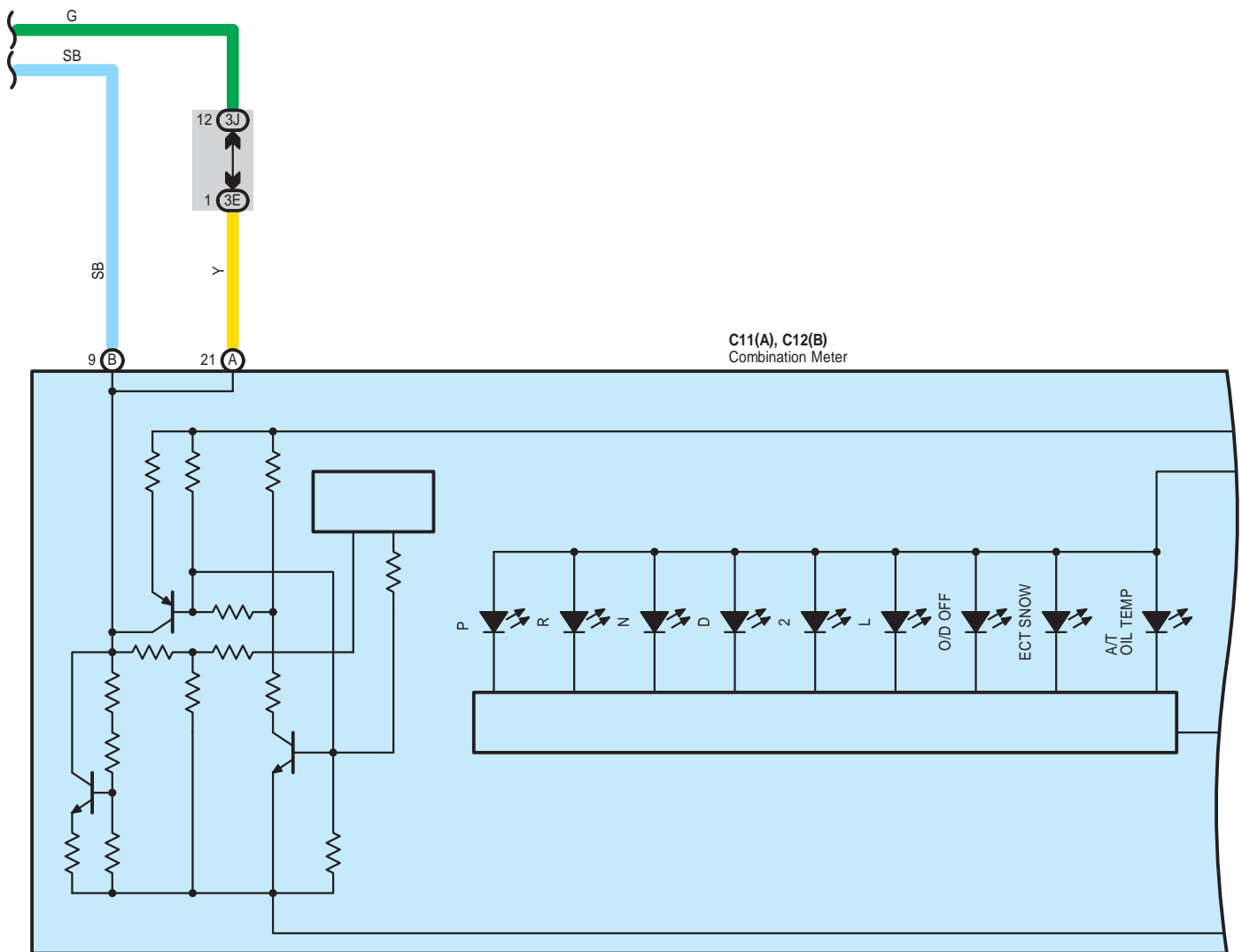
# ECT and A/T Indicator for 2AZ-FE



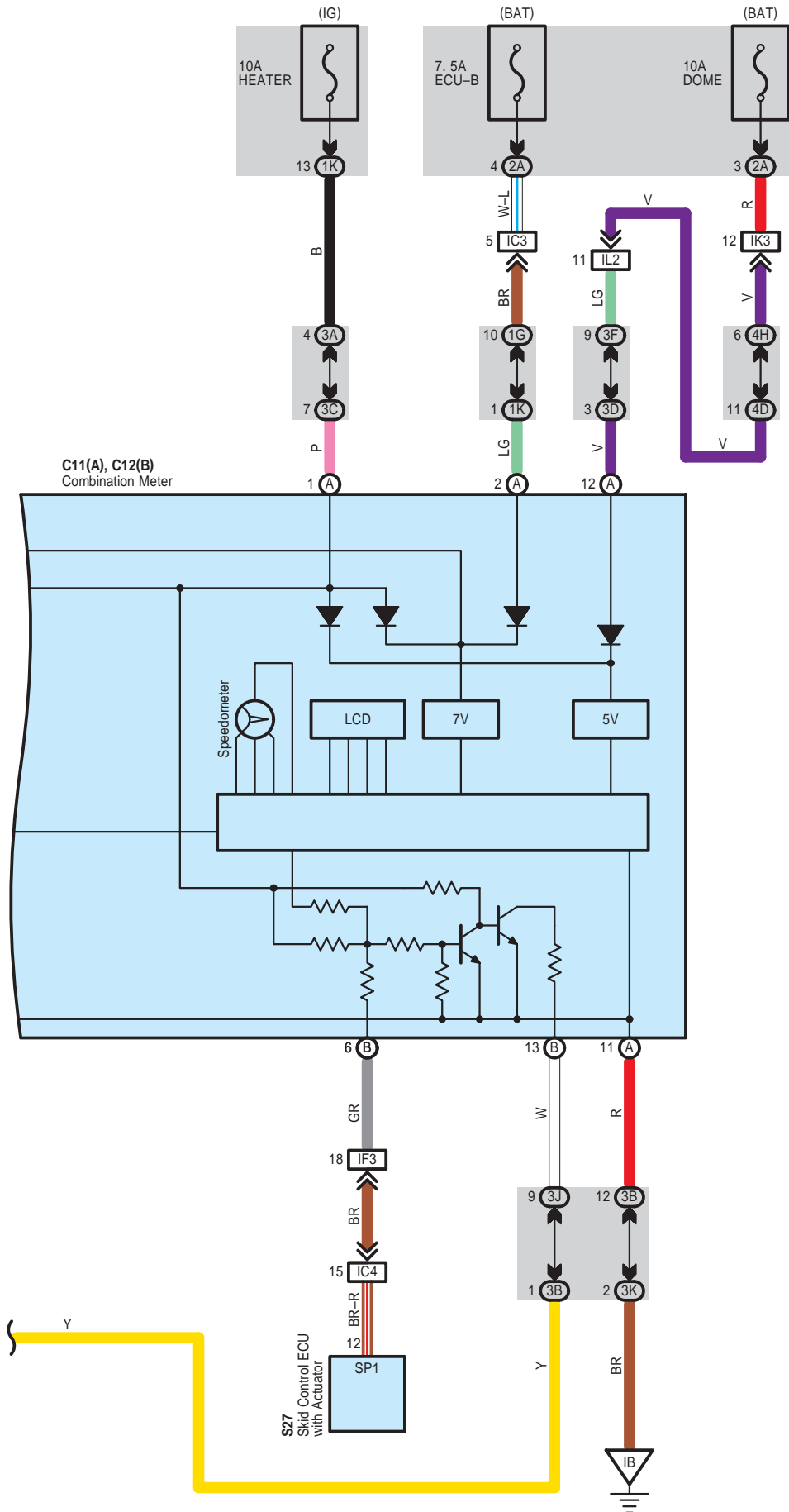


# ECT and A/T Indicator for 2AZ-FE





## ECT and A/T Indicator for 2AZ-FE



## System Outline

Previous automatic transaxle have selected each gear shift using mechanically controlled throttle hydraulic pressure, governor hydraulic pressure and lock-up hydraulic pressure. The electronically controlled transmission, however, electrically controls the line pressure, throttle pressure, lock-up pressure and accumulator pressure etc. through the solenoid valve. The electronically controlled transmission is a system which precisely controls gear shift timing and lock-up timing in response to the vehicle's driving conditions and the engine condition detected by various sensors. It makes smooth driving possible by shift selection for each gear which is the most appropriate to the driving conditions at that time, and by preventing downing, squat and gear shift shock when starting off.

### 1. Gear Shift Operation

During driving the engine warm up condition signal is input from engine coolant temp. sensor to TERMINAL THW of the engine control module, and the vehicle speed signal is input from the ABS speed sensor to skid control ECU, and are sent to the engine control module through communication control. At the same time, the throttle valve opening signal is sent from the throttle position sensor to the TERMINALS VTA1 and VTA2 of the engine control module, as the throttle angle signal.

### 2. Lock-Up Operation

When the engine control module decides based on each signal that the lock-up condition has been met, the current flows through TERMINAL DSL of the engine control module to TERMINAL 3 of the electronically controlled transmission solenoid to GROUND.

### 3. Stop Light SW Circuit

If the brake pedal is depressed (Stop light SW on) when driving in lock-up condition, a signal is input to TERMINAL STP of the engine control module. The engine control module operates and cuts the current to the solenoid to release lock-up.

### 4. Overdrive Circuit

#### \* O/D main SW on

When the O/D main SW is turned on, a signal is input to TERMINAL ODMS of the engine control module and engine control module operation causes gear shift when the conditions for overdrive are met.

#### \* O/D main SW off

When the O/D main SW is turned off, a signal is input into TERMINAL ODMS of the engine control module, and turns on the O/D off indicator light. This activates the ECU, and the transmission system is controlled not to shift to overdrive.

## ○ : Parts Location

Code	See Page	Code	See Page	Code	See Page
A10	A 42	E6	B 42	S15	43
A11	B 42	E7	E 42	S27	41 (2AZ-FE)
A17	B 42	E8	D 42	S28	A 43
B9	A 42	E9	C 42	S29	B 43
B10	B 42	E10	40 (2AZ-FE)	S30	A 43
C6	40 (2AZ-FE)	G5	43	S31	B 43
C11	A 42	J2	41 (2AZ-FE)	T3	41 (2AZ-FE)
C12	B 42	J6	43	T13	41 (2AZ-FE)
E2	B 40 (2AZ-FE)	J7	43	T16	43
E4	42	P1	41 (2AZ-FE)		
E5	A 42	P5	44		

## ECT and A/T Indicator for 2AZ-FE



### : Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1E	29	Cowl Wire and Instrument Panel J/B (Lower Finish Panel)
1G		
1K	28	Instrument Panel Wire and Instrument Panel J/B (Lower Finish Panel)
2A	27	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2B		
2F		
3A	30	Instrument Panel Wire and Center J/B (Behind the Instrument Panel Center)
3B		
3C		
3D		
3E		
3F		
3H	31	
3J		
3K		
4A	33	Cowl Wire and Passenger Side J/B (Right Side of Grove Box)
4D		
4E		
4F		
4H		
4K	32	
4L		
4M		



### : Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IB2	50	Front Door LH Wire and Cowl Wire (Left Kick Panel)
IC3	50	Engine Room Main Wire and Cowl Wire (Left Cowl Side Panel)
IC4		
IF3	50	Instrument Panel Wire and Cowl Wire (Right Side of Instrument Panel J/B)
IK2	51	Engine Room Main Wire and Cowl Wire (Right Cowl Side Panel)
IK3		
IL2	51	Instrument Panel Wire and Cowl Wire (Upper Side of Passenger Side J/B)
IM1	51	Engine Wire and Cowl Wire (Right Kick Panel)



### : Ground Points

Code	See Page	Ground Points Location
EE	49 (2AZ-FE)	Intake Side of Cylinder Block
EF	49 (2AZ-FE)	Left Side of Cylinder Block
EH	49 (2AZ-FE)	Under the Left Headlight
IB	50	Right Instrument Panel Brace

