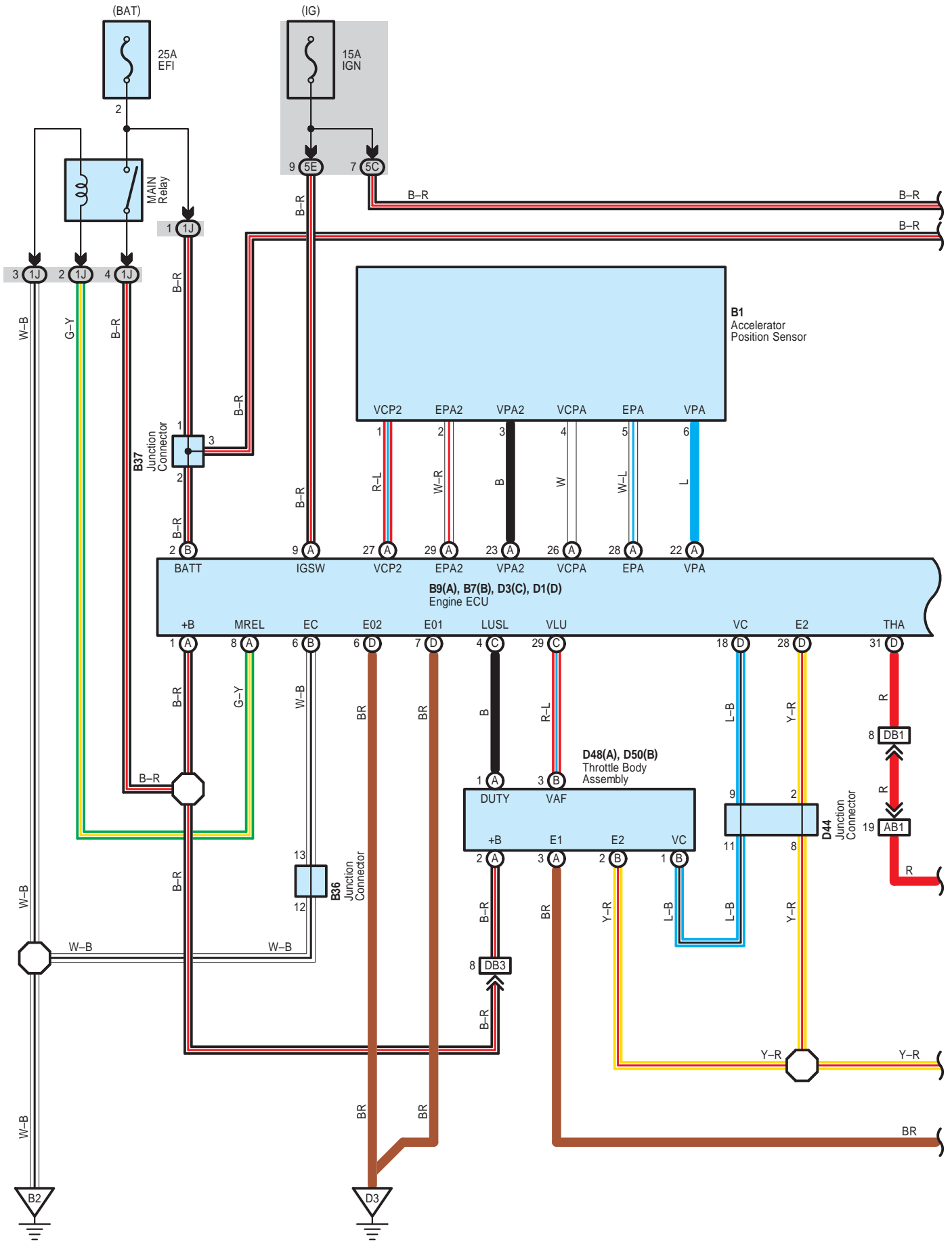
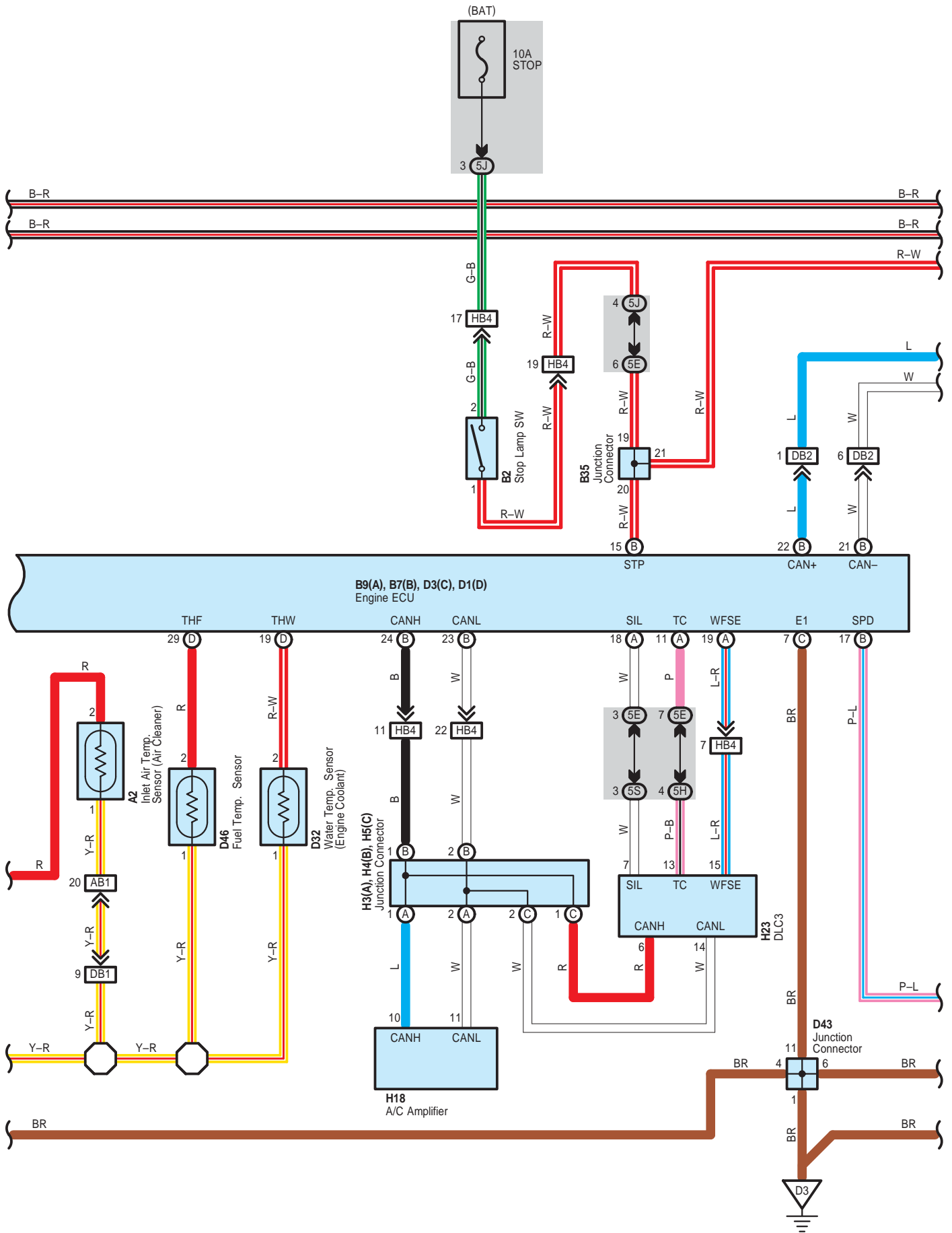
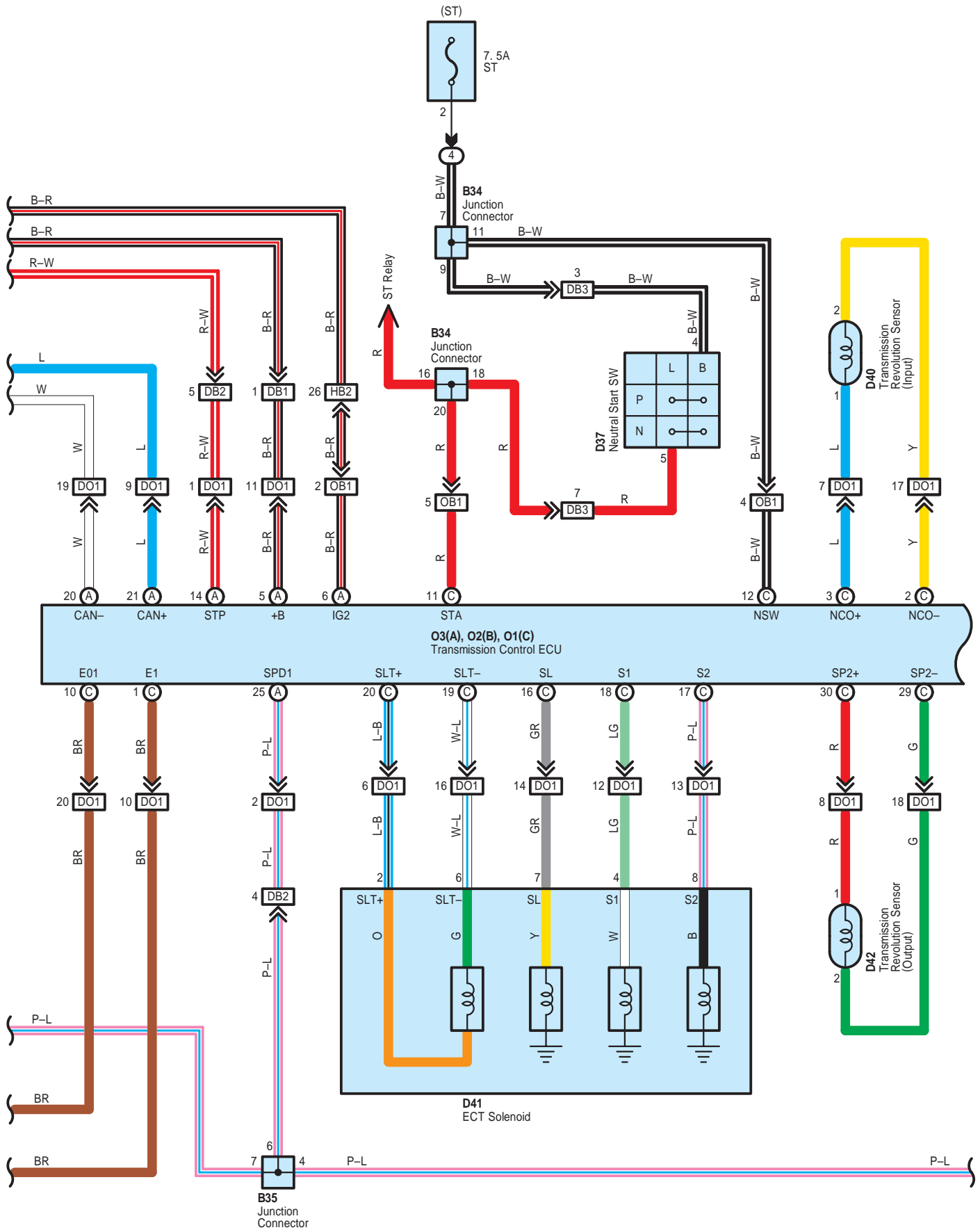


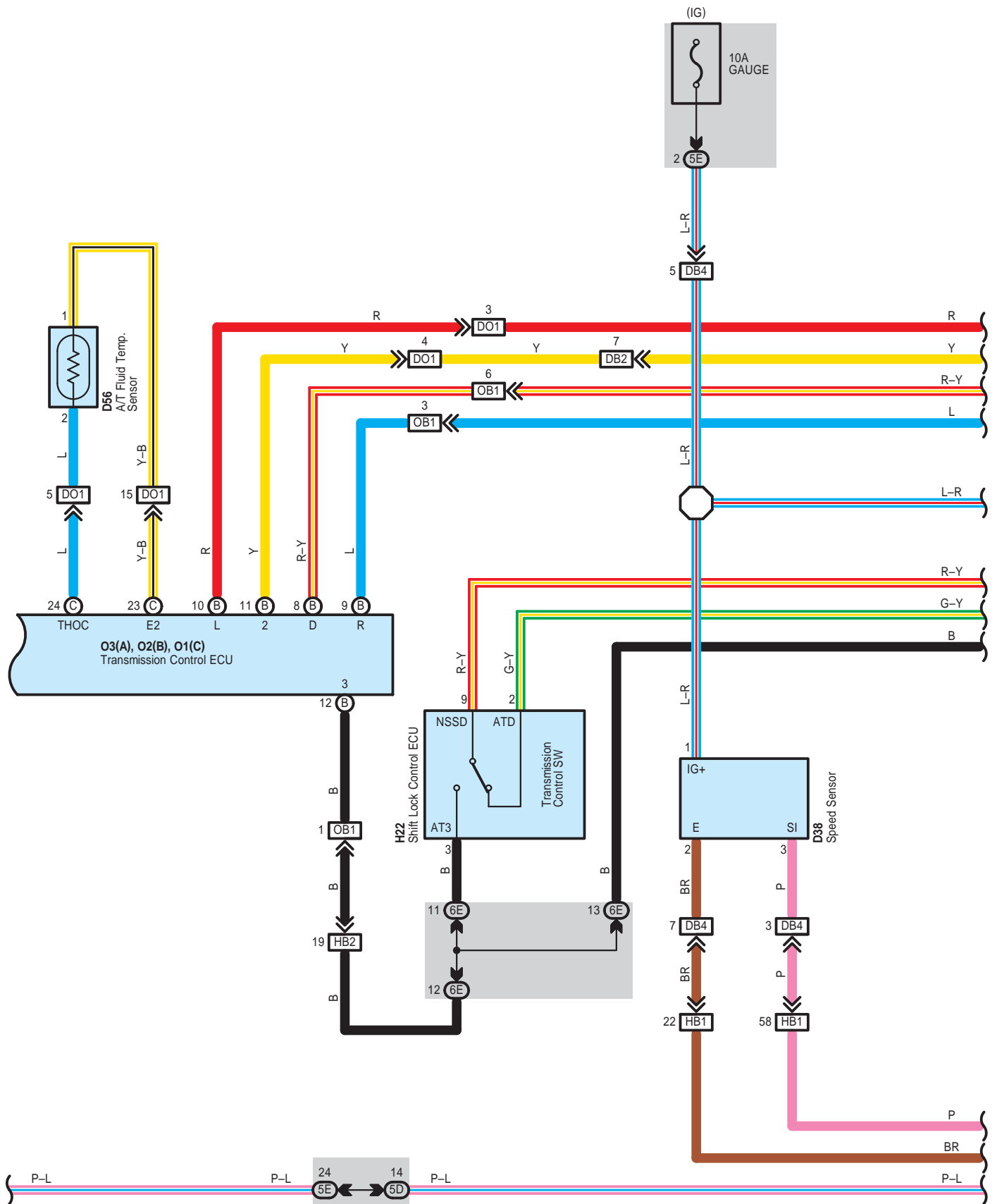
ECT and A/T Indicator (2KD-FTV)



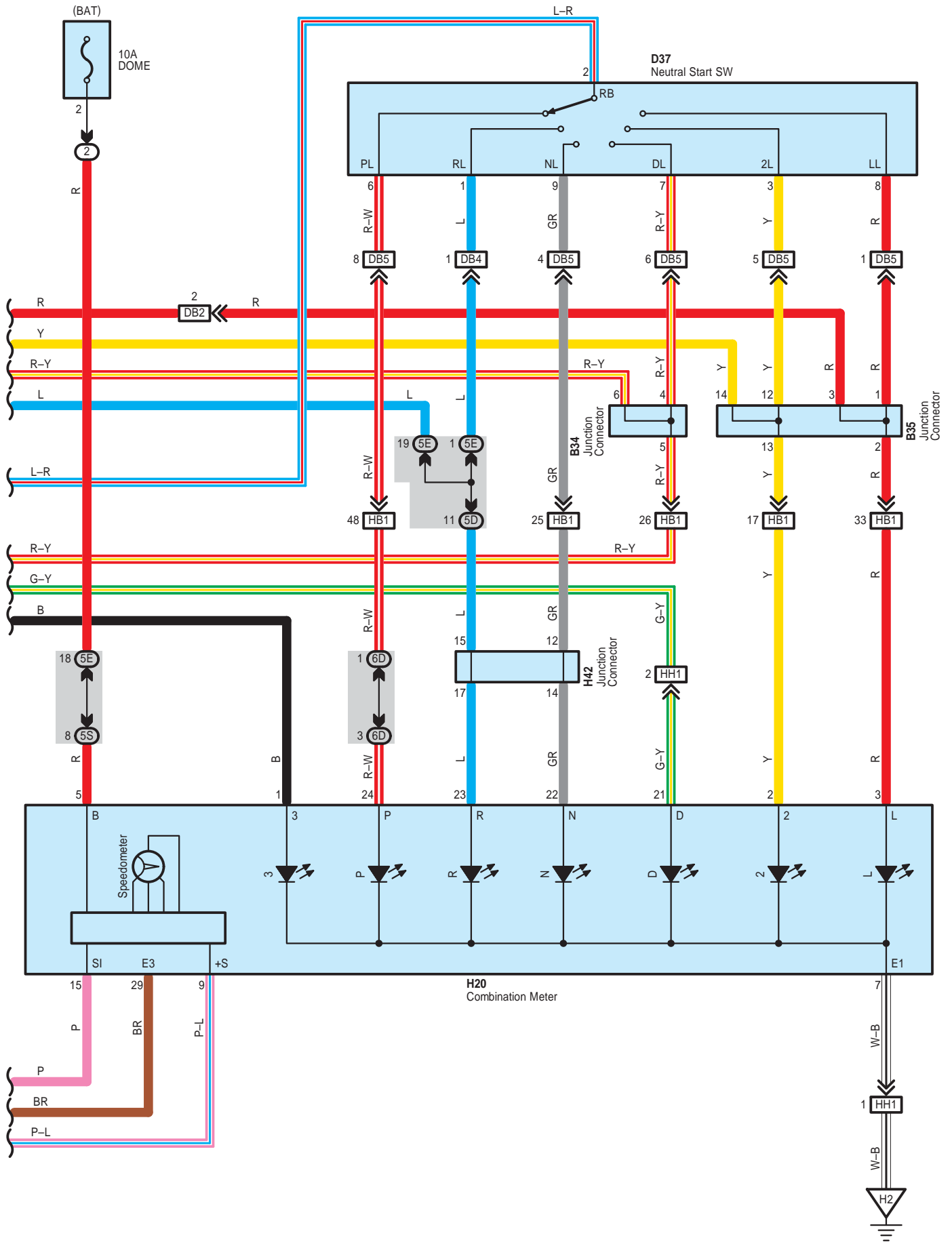


ECT and A/T Indicator (2KD-FTV)





ECT and A/T Indicator (2KD-FTV)



System Outline

Previous automatic transmissions 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. Lock-Up Operation

When the transmission control ECU decides based on each signal that the lock-up condition has been met, the current flows through TERMINAL SL of the transmission control ECU to TERMINAL 7 of the ECT solenoid to GROUND, causing lock-up operation.

2. Stop Lamp SW Circuit

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

○ : Parts Location

Code	See Page	Code	See Page	Code	See Page	
A2	48 (LHD)	D32	53 (*5)	H3	A	42, 49 (LHD)
	56 (RHD)	D37	45 (*2)			42, 57 (RHD)
B1	48 (LHD)		D38	53 (*5)	H4	B
	56 (RHD)	45 (*2)		42, 57 (RHD)		
B2	48 (LHD)	D40	53 (*5)	H5	C	42, 49 (LHD)
	56 (RHD)		45 (*2)			42, 57 (RHD)
B7	B	D41	53 (*5)	H18		49 (LHD)
			45 (*2)			57 (RHD)
B9	A	D42	53 (*5)	H20		49 (LHD)
			45 (*2)			57 (RHD)
B34	48 (LHD)	D43	53 (*5)	H22		49 (LHD)
	56 (RHD)		45 (*2)			57 (RHD)
B35	45 (*2)	D44	53 (*5)	H23		49 (LHD)
	53 (*5)		45 (*2)			57 (RHD)
B36	45 (*2)	D46	53 (*5)	H42		49 (LHD)
	53 (*5)		45 (*2)			57 (RHD)
B37	45 (*2)	D48	A	O1	C	48 (LHD)
	53 (*5)					56 (RHD)
D1	D	D50	B	O2	B	48 (LHD)
						53 (*5)
D3	C	D56		O3	A	48 (LHD)
						53 (*5)
D32	45 (*2)					

○ : Relay Blocks

Code	See Page	Relay Blocks (Relay Block Location)
2	28	Engine Room R/B No.2 (Inside of Battery Room)
4	29	Instrument Panel R/B (Under the Glove Box)

* 1 : LHD 2TR-FE * 2 : LHD 2KD-FTV * 3 : LHD 5L-E * 4 : RHD 2TR-FE * 5 : RHD 2KD-FTV * 6 : RHD 5L-E * 7 : 2TR-FE

* 8 : 2KD-FTV, 5L-E

ECT and A/T Indicator (2KD-FTV)

: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1J	25	Engine Room Main Wire and Engine Room J/B No.1 (Engine Compartment Front)
5C	30	Instrument Panel Wire and Instrument Panel J/B (Left Side of Instrument Panel)
5D		
5E	30	Engine Room Main Wire and Instrument Panel J/B (Left Side of Instrument Panel)
5H	30	Instrument Panel Wire and Instrument Panel J/B (Left Side of Instrument Panel)
5J		
5S		
6D	38 (LHD)	Instrument Panel Wire and Center J/B (Instrument Panel Reinforcement LH)
	38 (RHD)	Instrument Panel Wire and Center J/B (Instrument Panel Reinforcement RH)
6E	38 (LHD)	Instrument Panel Wire and Center J/B (Instrument Panel Reinforcement LH)
	38 (RHD)	Instrument Panel Wire and Center J/B (Instrument Panel Reinforcement RH)

: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
AB1	64 (LHD)	Cowl to Head Lamp Wire and Engine Room Main Wire (Left Side of the Instrument Panel J/B)
	72 (RHD)	
DB1	61 (*2)	Engine Wire and Engine Room Main Wire (Front Side of Engine Room R/B No.1)
	69 (*5)	
DB2	61 (*2)	
	69 (*5)	
DB3	61 (*2)	
	69 (*5)	
DB4	61 (*2)	
	69 (*5)	
DB5	61 (*2)	
	69 (*5)	
DO1	61 (*2)	Engine Wire and Floor Wire (Front Floor Panel Right)
	69 (*5)	
HB1	64 (LHD)	Instrument Panel Wire and Engine Room Main Wire (Under the Instrument Panel J/B)
	72 (RHD)	
HB2	64 (LHD)	
	72 (RHD)	
HB4	64 (LHD)	
	72 (RHD)	
HH1	64 (LHD)	Instrument Panel Wire and Instrument Panel Wire (Near the Steering Column)
	72 (RHD)	Instrument Panel Wire and Instrument Panel Wire (Instrument Panel Reinforcement RH)
OB1	65 (LHD)	Floor Wire and Engine Room Main Wire (RH Side of Instrument Panel R/B)
	73 (RHD)	Floor Wire and Engine Room Main Wire (Near the Stop Lamp SW)

: Ground Points

Code	See Page	Ground Points Location
B2	61 (*2)	Front Floor Panel Right
	69 (*5)	
D3	61 (*2)	Engine Block
	69 (*5)	
H2	64 (LHD)	Instrument Panel Reinforcement
	72 (RHD)	

* 1 : LHD 2TR-FE * 2 : LHD 2KD-FTV * 3 : LHD 5L-E * 4 : RHD 2TR-FE * 5 : RHD 2KD-FTV * 6 : RHD 5L-E * 7 : 2TR-FE
 * 8 : 2KD-FTV, 5L-E

