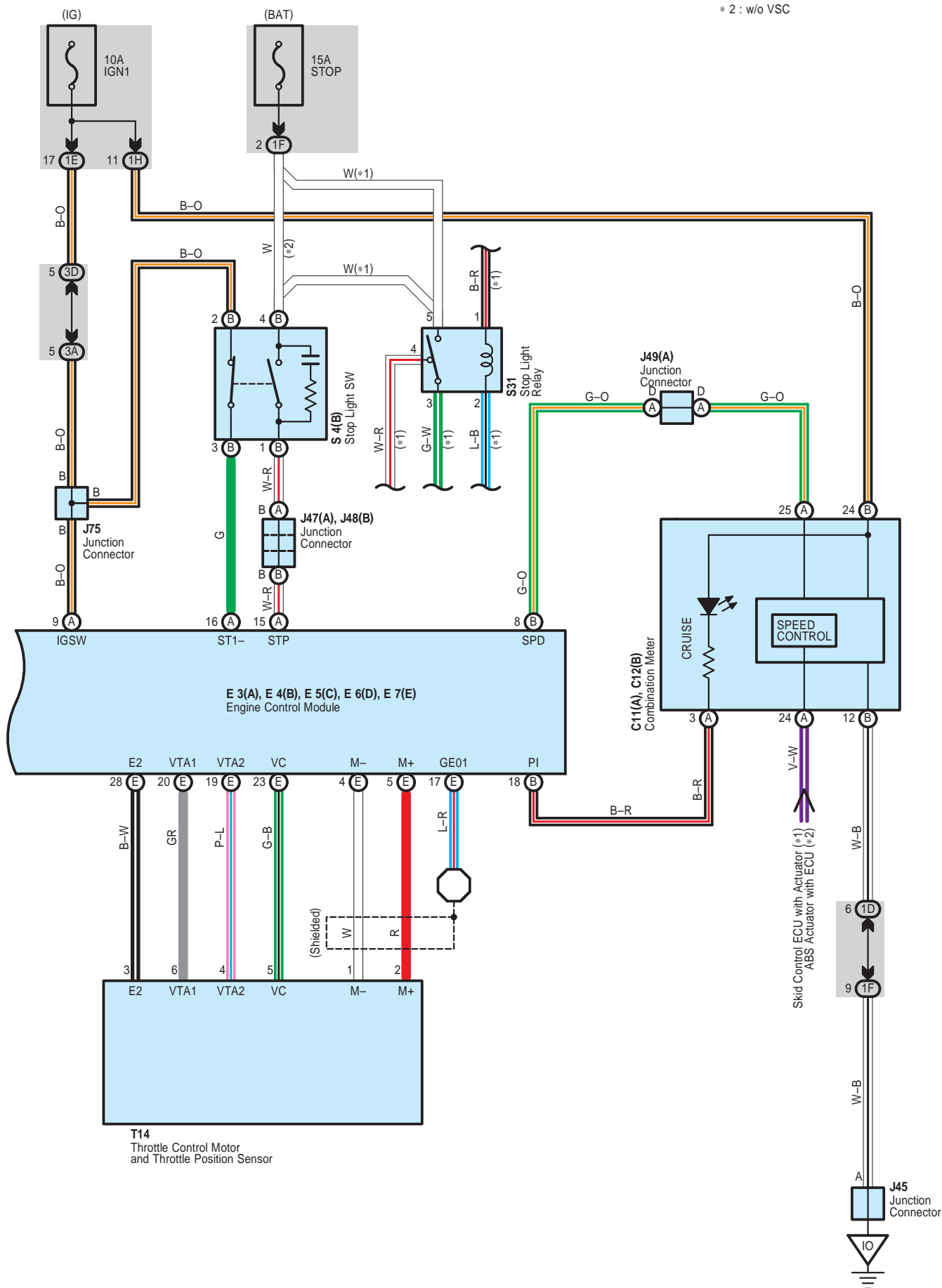


* 1 : w/ VSC
* 2 : w/o VSC



Cruise Control (Double Cab)

System Outline

The cruise control system is a constant vehicle speed controller which controls the opening angle of the engine throttle valve by the SW, and allows driving at a constant speed without depressing the accelerator pedal.

1. Set Control

When the – SET SW is operated while traveling with the ON–OFF SW on, the speed when the – SET SW is operated to off is memorized, and the vehicle speed is controlled at that speed.

2. Coast Control

When the – SET SW is operated to on, the cruise control opening angle requirement is turned to 0 to decrease the vehicle speed, and the speed when the – SET SW is operated to off is memorized, and the vehicle speed is controlled at that speed. Furthermore, every time the – SET SW is operated momentarily (Approx. 0.5 sec.) to on, the memorized vehicle speed is decreased by approx. 1.6 km/h (1.0 mph).

3. Accel Control

When the + RES SW is operated to on, the throttle motor rotates the throttle valve to open direction to increase the vehicle speed, and the speed when the + RES SW is operated to off is memorized, and the vehicle speed is controlled at that speed.

Furthermore, every time the + RES SW is operated momentarily (Approx. 0.5 sec.) to on, the memorized vehicle speed is increased by approx. 1.6 km/h (1.0 mph).

4. Manual Cancel Mechanism

If any of the following signals are input during cruise control traveling, the current to the motor flows in the direction to close the throttle valve, and cancel the cruise control.

- (1) Stop lamp SW is on (Brake pedal is depressed)
- (2) The CANCEL SW of the control SW is on
- (3) ON–OFF SW is off
- (4) Gear is shifted from D position to other positions than D.

5. Resume Control

After canceling the cruise control (Except when the ON–OFF SW is off) if the vehicle speed is above the minimum speed limit (Approx. 40km/h, 25mph), operating the + RES SW to on from off will cause the system to accelerate and resume to the vehicle speed before manual cancellation.

6. Overdrive Function

The overdrive may be cut on an uphill grade, while traveling with the cruise control.

After the overdrive is cut, when the throttle opening information indicates the hill climbing is finished after the overdrive is canceled, the vehicle returns to overdrive mode again as the overdrive return timer is completed, and if the system determines that the uphill grade has finished, the overdrive will resume after the overdrive timer operation.

7. Auto Cancel Operation

If any of the following conditions are detected, the control is canceled.

- (1) Disconnection and/or short in the stop light SW
- (2) Malfunction in the vehicle speed signal
- (3) Malfunction in the electronic throttle parts
- (4) Malfunction in the stop light SW input circuit
- (5) Malfunction in the cancel circuit
- (6) When the vehicle speed gets slower than the low speed limit.
- (7) The actual vehicle speed becomes –16 km/h (10 mph) slower than the set speed

○ : Parts Location

Code			See Page			Code			See Page		
A20	A	72	E6	D	73	J48	B	74			
C11	A	72	E7	E	73	J49	A	74			
C12	B	72	J28	A	74	J75		74			
C16		72	J29	B	74	P1		71			
E3	A	73	J34		71	S4	B	75			
E4	B	73	J45		74	S31		75			
E5	C	73	J47	A	74	T14		71			



: Junction Block and Wire Harness Connector

Code	See Page	Junction Block and Wire Harness (Connector Location)
1D	49	Cowl Wire and Driver Side J/B (Lower Finish Panel)
1E		
1F		
1H		
2F	45	Engine Room Main Wire and Engine Room J/B (Engine Compartment Left)
2H		
3A	52	Cowl Wire and Sub J/B No.3 (Upper the Accelerator Pedal)
3D		



: Connector Joining Wire Harness and Wire Harness

Code	See Page	Joining Wire Harness and Wire Harness (Connector Location)
IA10	92	Engine Room Main Wire and Cowl Wire (Left Kick Panel)
IE1	93	Engine Wire and Cowl Wire (Right Side of Instrument Panel)



: Ground Points

Code	See Page	Ground Points Location
EA	90	Front Left Fender Apron
EC	90	Rear Bank of Left Cylinder Head
EY	90	Front Left Side of Cylinder Head
IO	92	Left Kick Panel