

7. AUTO CANCEL FUNCTION

A) IF ANY OF THE FOLLOWING OPERATING CONDITIONS OCCURS DURING CRUISE CONTROL OPERATION, THE SET SPEED IS ERASED, CURRENT FLOW TO THE SAFETY MAGNETIC CLUTCH IS STOPPED AND THE CRUISE CONTROL IS RELEASED. (MAIN SW TURNS OFF). WHEN THIS OCCURS, THE IGNITION SW MUST BE TURNED OFF ONCE BEFORE THE MAIN SW WILL TURN ON.

- * OVER CURRENT TO TRANSISTOR DRIVING MOTOR AND/OR SAFTY MAGNETIC CLUTCH.
- * CURRENT TO CONTROL THE THROTTLE VALVE IN MOTOR BECOMES ALWAYS "ON".
- * OPEN CIRCUIT IN SAFETY MAGNETIC CLUTCH.
- * MOMENTARY INTERRUPTION OF VEHICLE SPEED SIGNAL
- * SHORT CIRCUIT IN CRUISE CONTROL SW.
- * MOTOR DOES NOT OPERATE DESPITE THE MOTOR DRIVE SIGNAL BEING OUTPUT.

B) IF ANY OF THE FOLLOWING CONDITIONS OCCURS DURING CRUISE CONTROL OPERATION, THE SET SPEED IS ERASED AND THE CRUISE CONTROL IS RELEASED. (THE POWER OF MAGNETIC CLUTCH IS CUT OFF UNTIL THE SET SW IS "ON" AGAIN.)

- * WHEN THE VEHICLE SPEED FALLS BELOW THE MINIMUM SPEED LIMIT, APPROX. **40 KM/H (25 MPH)**
- * WHEN THE VEHICLE SPEED FALLS MORE THAN **16 KM/H (10 MPH)** BELOW THE SET SPEED, E.G. ON AN UPWARD SLOPE.
- * WHEN POWER TO THE CRUISE CONTROL SYSTEM IS MOMENTARILY CUT OFF.

C) IF ANY OF THE FOLLOWING CONDITIONS OCCUR DURING CRUISE CONTROL OPERATION, THE CRUISE CONTROL IS RELEASED. BUT IN THIS CASE, THE SET SPEED IS NOT ERASED. IF THE VEHICLE SPEED IS MORE THAN THE MINIMUM SPEED LIMIT (APPROX. **40 KM/H, 25 MPH**), CRUISE CONTROL OPERATION IS POSSIBLE USING "SET" OR "RESUME" ON THE CONTROL SW.

- * OPEN CIRCUIT FOR **TERMINAL 10** OF CRUISE CONTROL ECU AND **TERMINAL 3** OF STOP LIGHT SW.

8. AUTOmATIC TRANSmISSION CONTROL FUNCTION

- * IN OVERDRIVE, IF THE VEHICLE SPEED BECOMES LOWER THAN THE OVERDRIVE CUT SPEED (SET SPEED MINUS APPROX. **4 KM/H, 2.5 MPH**) DURING CRUISE CONTROL OPERATION, SUCH AS DRIVING UP A HILL, THE OVERDRIVE IS RELEASED AND THE POWER INCREASED TO PREVENT A REDUCTION IN VEHICLE SPEED.
- * AFTER RELEASING THE OVERDRIVE, VEHICLE SPEED BECOMES HIGHER THAN THE OVERDRIVE RETURN SPEED (SET SPEED MINIMUM **2 KM/H, 1.2 MPH**), THE ECU JUDGES BY THE SIGNALS FROM POTENTIONMETER OF THE ACTUATOR THAT THE UPWARD SLOPE HAS FINISHED, AND OVERDRIVE IS RESUMED AFTER APPROXIMATELY **6 SECONDS**.

SERVICE HINTS

C17 CRUISE CONTROL ECU

13-GROUND
:ALWAYS CONTINUITY
15-GROUND
:ALWAYS **12** VOLTS
20-GROUND
:4 PULSE WITH 1 ROTATION OF THE ROTOR SHAFT
16-GROUND
:APPROX. **12** VOLTS WITH BRAKE REDAL DEPRESSED (ONE OF THE CANCEL SW)
14-GROUND
:APPROX. **12** VOLTS WITH IGNITION SW AT **ON** POSITION
18-GROUND
:APPROX. **418** Ω CANCEL SW ON IN CONTROL SW
APPROX. **68** Ω RESUME/ACCEL SW ON IN CONTROL SW
APPROX. **198** Ω WITH SET/COAST SW ON IN CONTROL SW

C14 CRUISE CONTROL SW [COMB. SW]

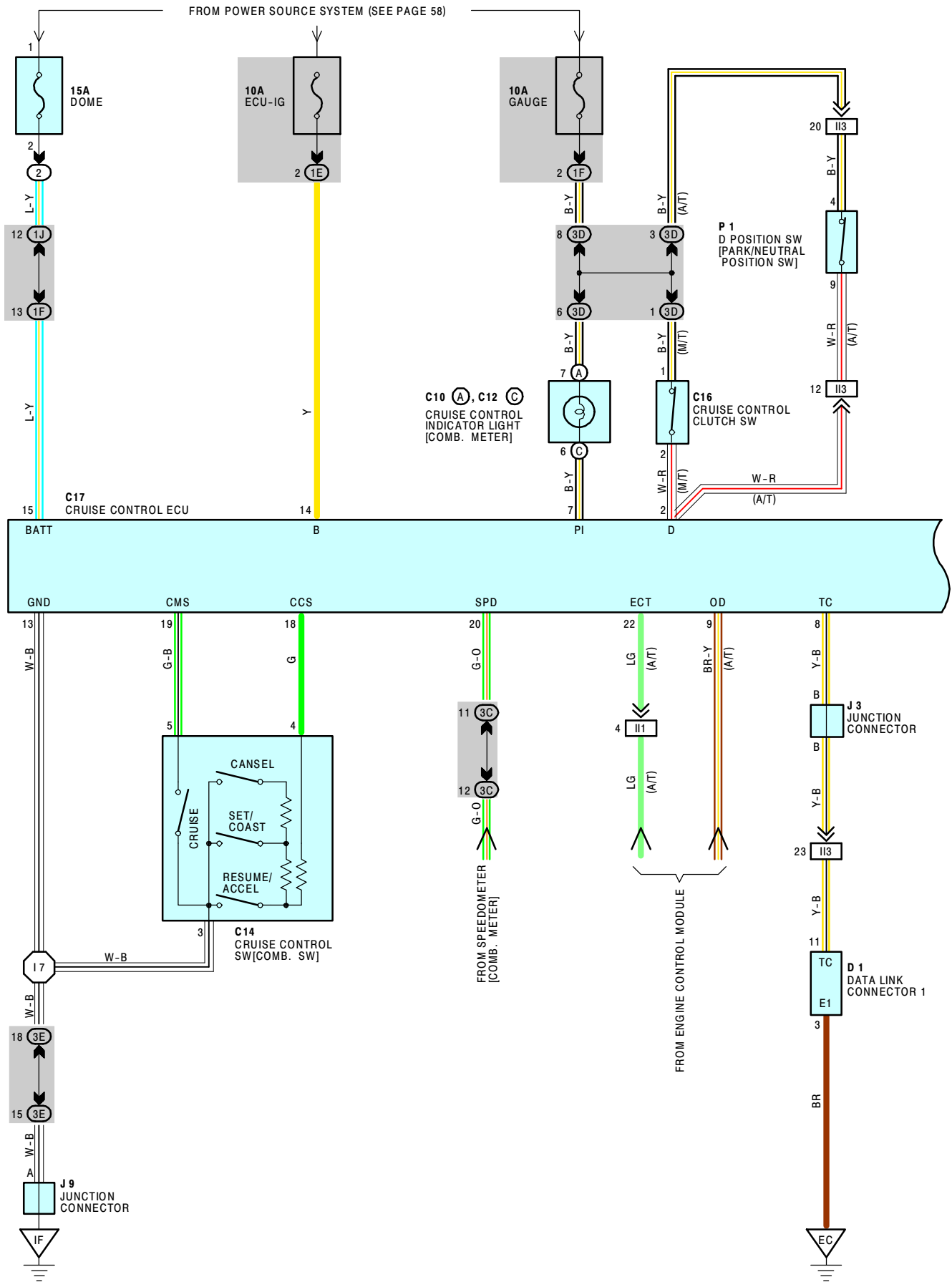
5-3 :CLOSED WITH MAIN SW ON
4-3 :APPROX. **68** Ω WITH RUSUME/ACCEL SW ON
APPROX. **198** Ω WITH SET/COAST SW ON
APPROX. **418** Ω WITH CANCEL SW ON

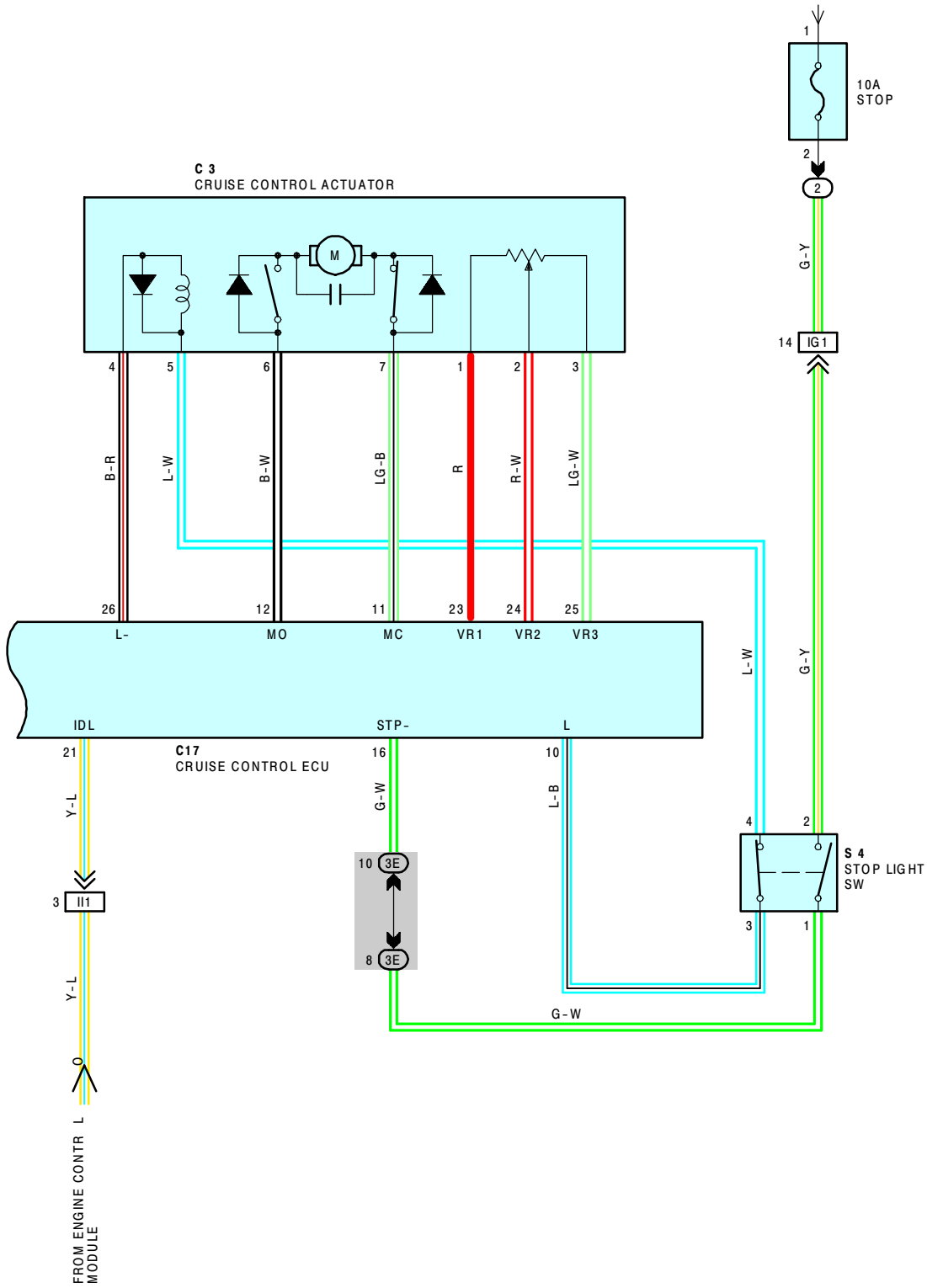
C 3 CRUISE CONTROL ACTUATOR

1-3 :APPROX. **2** K Ω
5-4 :APPROX. **38.5** Ω



CRUISE CONTROL (3RZ-FE)







CRUISE CONTROL (3RZ-FE)

: PARTS LOCATION

CODE	SEE PAGE	CODE	SEE PAGE	CODE	SEE PAGE
C 3	28	C16	30	J 9	31
C10	A 30	C17	30	P 1	27 (3RZ-FE)
C12	C 30	D 1	28 (3RZ-FE)	S 4	31
C14	30	J 3	31		

: RELAY BLOCKS

CODE	SEE PAGE	RELAY BLOCKS (RELAY BLOCK LOCATION)
2	20 (USA) 21 (CANADA)	ENGINE ROOM R/B (ENGINE COMPARTMENT LEFT)

: JUNCTION BLOCK AND WIRE HARNESS CONNECTOR

CODE	SEE PAGE	JUNCTION BLOCK AND WIRE HARNESS (CONNECTOR LOCATION)
1E	22	COWL WIRE AND DRIVER SIDE J/B (LOWER FINISH PANEL)
1F		
1J	22	ENGINE ROOM MAIN WIRE AND DRIVER SIDE J/B (LOWER FINISH PANEL)
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)
IG1	40	ENGINE ROOM MAIN WIRE AND COWL WIRE (LEFT KICK PANEL)
II1	40	ENGINE WIRE AND COWL WIRE (ON THE GLOVE BOX)
II3		

: GROUND POINTS

CODE	SEE PAGE	GROUND POINTS LOCATION
EC	38 (3RZ-FE)	INTAKE MANIFOLD
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 7	40	COWL WIRE			

