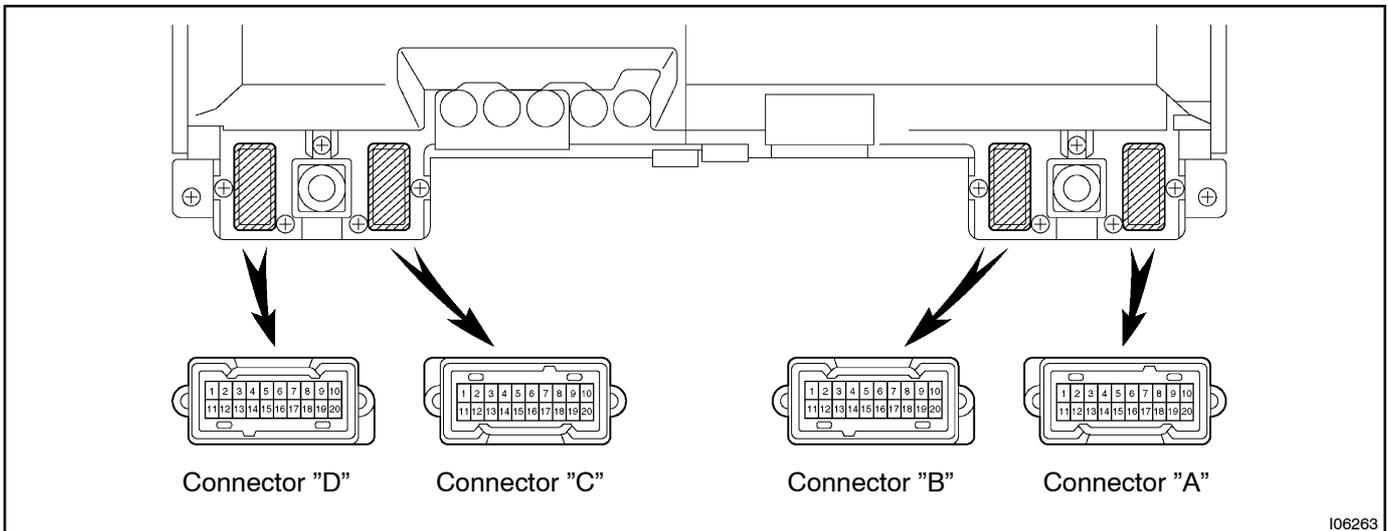


INSPECTION

Connector disconnected:

INSPECT COMBINATION METER CIRCUIT

Connect the connector "A", "B", "C" and "D" to the combination meter and inspect the wire harness side connectors from the back side as shown in the table.



106263

Tester connection	Condition	Specified condition
A1 - Ground	Key unlock warning switch ON (Key is inserted)	No voltage
A1 - Ground	Key unlock warning switch OFF (Key is removed)	Battery voltage
A2 - Ground	Ignition switch ON	4.5 - 5.5 V
A3 - Ground	Ignition switch ON and fuel sender gauge float UP	Approx. 4.5 V
A3 - Ground	Ignition switch ON and fuel sender gauge float DOWN	Approx. 0.5 V
A4 - Ground	Constant	0 V
A5 - Ground	Ignition switch ON	4.5 - 5.5 V
A6 - Ground	Ignition switch ON and fuel sub sender gauge float UP	Approx. 5.5 V
A6 - Ground	Ignition switch ON and fuel sub sender gauge float DOWN	Approx. 0.5 V
A7 - Ground	Constant	0 V
A8 - Ground	Ignition switch ON and sub fuel switch ON	Battery voltage
A8 - Ground	Ignition switch OFF and sub fuel switch OFF	No voltage
A9 - Ground	Ignition switch ON and ABS warning light light up	No voltage
A9 - Ground	Ignition switch ON and ABS warning light does not light up	Battery voltage
A10 - Ground	Ignition switch ON and light control rheostat volume minimum	Analog → Battery voltage Opti → Approx. 8 V (Approx. 8 V at rheostat off)

BODY ELECTRICAL - COMBINATION METER

A10 - Ground	Ignition switch ON and light control rheostat volume maximum	No voltage
A11 - Ground	Light control switch OFF	No voltage
A11 - Ground	Light control switch TAIL or HEAD	Battery voltage
A12 - Ground	Ignition switch ON and driver door is opened	No voltage
A12 - Ground	Ignition switch ON and driver door is closed	Battery voltage
A13 - Ground	Ignition switch ON and sub fuel switch ON	No voltage
A13 - Ground	Ignition switch OFF and sub fuel switch OFF	Battery voltage
A14 - Ground	Ignition switch ON and engine is stopped	No voltage
A14 - Ground	Ignition switch ON and engine is running	Battery voltage
A15 - Ground	Ignition switch ON and seat belt is unfastened	No voltage
A15 - Ground	Ignition switch ON and seat belt is fastened	Battery voltage
A16 - Ground	Ignition switch OFF	No voltage
A16 - Ground	Ignition switch ON	Battery voltage
A17 - Ground	Constant	Battery voltage
A18 - Ground	Ignition switch ON and ABS is error	No voltage
A18 - Ground	Ignition switch ON and ABS is normal	Battery voltage
A19 - Ground	Ignition switch ON and fog light switch OFF	Battery voltage
A19 - Ground	Ignition switch ON and fog light switch ON	No voltage
B1 - Ground	Ignition switch ON and tire carrier is opened	No voltage
B1 - Ground	Ignition switch ON and tire carrier is closed	Battery voltage
B2 - Ground	Ignition switch ON and engine is stopped	No voltage
B2 - Ground	Ignition switch ON and engine is running	Battery voltage
B4 - Ground	Ignition switch OFF	No voltage
B4 - Ground	Ignition switch ACC or ON	Battery voltage
B5 - Ground	Ignition switch ON and A/T shift P indicator light up	No voltage
B5 - Ground	Ignition switch ON and A/T shift P indicator does not light up	Battery voltage
B6 - Ground	Ignition switch ON and except A/T shift P position	No voltage
B6 - Ground	Ignition switch ON and A/T shift P position	Battery voltage
B7 - Ground	Ignition switch ON and except A/T shift R position	No voltage
B7 - Ground	Ignition switch ON and A/T shift R position	Battery voltage
B8 - Ground	Ignition switch ON and A/T oil temperature indicator light up	No voltage
B8 - Ground	Ignition switch ON and A/T oil temperature indicator does not light up	Battery voltage
B9 - Ground	Ignition switch ON and slowly move the wheel	Pulse signal is output below 1.5 V ↔ approx. 5 V or below 1.5 V ↔ Battery voltage
B10 - Ground	Ignition switch ON and slowly move the wheel	Pulse signal is output below 1.5 V ↔ Battery voltage
B11 - Ground	Constant	0 V
B13 - Ground	Ignition switch ON and engine is stopping	No voltage
B13 - Ground	Ignition switch ON and engine is running	Battery voltage

BODY ELECTRICAL - COMBINATION METER

B14 - Ground	Ignition switch OFF	No voltage
B14 - Ground	Ignition switch ON	Battery voltage
B15 - Ground	Ignition switch ON and Water temperature 90 °C	Analog: Approx. 5V Opti: Approx. 2V
B16 - Ground	Constant	0 V
B17 - Ground	Engine is running	Pulse generation
B18 - Ground	Ignition switch ON and engine is running	No voltage
B18 - Ground	Ignition switch ON and engine is stopping	Battery voltage
C1 - Ground	Ignition switch ON and rear diff. lock switch OFF	Battery voltage
C1 - Ground	Ignition switch ON and rear diff. lock switch ON	No voltage
C2 - Ground	Ignition switch ON and rear diff. lock switch OFF	Battery voltage
C2 - Ground	Ignition switch ON and rear diff. lock switch ON	No voltage
C3 - Ground	Constant	Battery voltage
C4 - Ground	Ignition switch ON and airbag indicator light light up	No voltage
C4 - Ground	Ignition switch ON and airbag indicator does not light up	Battery voltage
C5 - Ground	Ignition switch ON and except A/T shift N position	No voltage
C5 - Ground	Ignition switch ON and A/T shift N position	Battery voltage
C6 - Ground	Ignition switch ON and except A/T shift D position	No voltage
C6 - Ground	Ignition switch ON and A/T shift D position	Battery voltage
C7 - Ground	Ignition switch ON and except A/T shift 2nd position	No voltage
C7 - Ground	Ignition switch ON and A/T shift 2nd position	Battery voltage
C8 - Ground	Ignition switch ON and except A/T shift L position	No voltage
C8 - Ground	Ignition switch ON and A/T shift L position	Battery voltage
C10 - Ground	Ignition switch ON and O/D off switch ON	No voltage
C10 - Ground	Ignition switch ON and O/D off switch OFF	Battery voltage
C11 - Ground (M/T vehicle)	Ignition switch ON and ETCS indicator light light up	No voltage
C11 - Ground (M/T vehicle)	Ignition switch ON and ETCS indicator light does not light up	Battery voltage
C12 - Ground	Ignition switch ON and engine is running	Analog: Approx. 6 - 14 V Opti: Approx. 5 - 8 V
C12 - Ground	Ignition switch ON and engine is stopping	Analog: Battery voltage Opti: Approx. 8 V
C13 - Ground	Ignition switch ST position	Battery voltage
C13 - Ground	Ignition switch ON	No voltage
C14 - Ground	Ignition switch ON and cruise control switch OFF	Battery voltage
C14 - Ground	Ignition switch ON and cruise control switch ON	No voltage
C15 - Ground	Ignition switch ON and center diff. lock switch OFF	Battery voltage
C15 - Ground	Ignition switch ON and center diff. lock switch ON	No voltage
C16 - Ground	Rear fog light switch ON	Battery voltage

BODY ELECTRICAL - COMBINATION METER

C16 - Ground	Rear fog light switch OFF	No voltage
C17 - Ground	IG switch ON, off road TRC indicator light ON	Below 1.5 V
	IG switch ON, off road TRC indicator light OFF	10 - 14 V
C18 - Ground	IG switch ON, VSC warning light ON	Below 2.0 V
	IG switch ON, VSC warning light OFF	10 - 14 V
C19 - Ground	IG switch ON, VSC warning light ON	Below 2.0 V
	IG switch ON, VSC warning light OFF	10 - 14 V
C20 - Ground	IG switch ON, VSC OFF indicator light ON	Below 2.0 V
	IG switch ON, VSC OFF indicator light OFF	10 - 14 V
D2 - Ground (Diesel vehicle)	Ignition switch ON and glow indicator light up	No voltage
D2 - Ground (Diesel vehicle)	Ignition switch ON and glow indicator does not light up	Battery voltage
D3 - Ground	Ignition switch ON and HPS indicator light up	Approx. 5 V
D3 - Ground	Ignition switch ON and HPS indicator light does not light up	No voltage
D4 - Ground	Ignition switch ON and HPS switch N	Approx. 5 V
D4 - Ground	Ignition switch ON and HPS switch HI or LO	No voltage
D5 - Ground	Ignition switch ON and HPS switch LO	Approx. 5 V
D5 - Ground	Ignition switch ON and HPS switch N	No voltage
D6 - Ground	Ignition switch ON and HPS system is operating	Approx. 5 V
D6 - Ground	Ignition switch ON and HPS system is OFF	No voltage
D7 - Ground	Ignition switch ON and brake fluid level warning switch float DOWN	No voltage
D7 - Ground	Ignition switch ON and brake fluid level warning switch float UP	Battery voltage
D8 - Ground	Ignition switch ON and parking brake lever is pulled	No voltage
D8 - Ground	Ignition switch ON and parking brake lever is released	Battery voltage
D9 - Ground	Ignition switch ON, parking brake lever is released and brake fluid level warning switch float DOWN	No voltage
D9 - Ground	Ignition switch ON, parking brake lever is released and brake fluid level warning switch float UP	Battery voltage
D10 - Ground	Ignition switch ON and pattern select switch NORM	No voltage
D10 - Ground	Ignition switch ON and pattern select switch PWR	Battery voltage
D11 - Ground	All door is opened	No voltage
D11 - Ground	Either door is closed	Battery voltage
D12 - Ground	Constant	0 V
D13 - Ground	Ignition switch ON and turn signal switch OFF or RIGHT	No voltage
D13 - Ground	Ignition switch ON and turn signal switch LEFT	Battery voltage
D14 - Ground	Light control switch OFF	No voltage
D14 - Ground	Light control switch HI	Battery voltage

D15 - Ground	Ignition switch ON and turn signal switch OFF or LEFT	No voltage
D15 - Ground	Ignition switch ON and turn signal switch RIGHT	Battery voltage
D16 - Ground	Head Light control switch ON	Battery voltage
D16 - Ground	Head Light control switch OFF	No voltage
D18 - Ground	IG switch ON, BRAKE warning light ON	Below 2.0 V
D17 - Ground	Ignition switch ON and washer indicator light ON	No voltage
D17 - Ground	Ignition switch OFF and washer indicator light OFF	Battery voltage
D18 - Ground	IG switch ON, BRAKE warning light OFF	10 - 14 V

If circuit is not as specified, wiring diagram and inspect the circuits connected to other parts.