

Parts Inspection (Combination Meter Assembly)

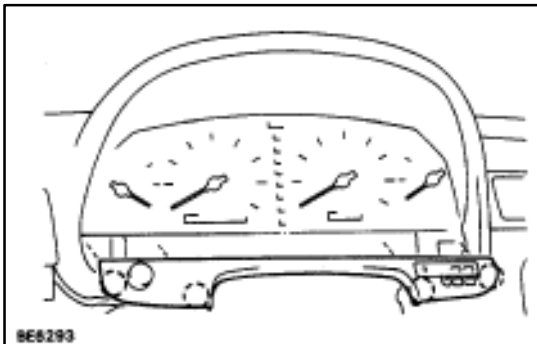
REMOVAL AND INSTALLATION OF COMBINATION METER ASSEMBLY

1. REMOVE COMBINATION METER ASSEMBLY

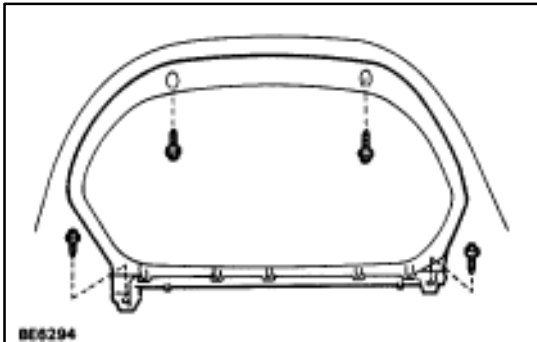
- (a) Lower the steering wheel fully and set it in the far position.
- (b) Turn the ignition switch to LOCK and disconnect battery terminals.

CAUTION: Work must be started after approx. 20 seconds or longer from the time the ignition switch is turned to the "LOCK" position and negative (–) terminal cable is disconnected from the battery.

- (c) Remove instrument cluster finish panel.



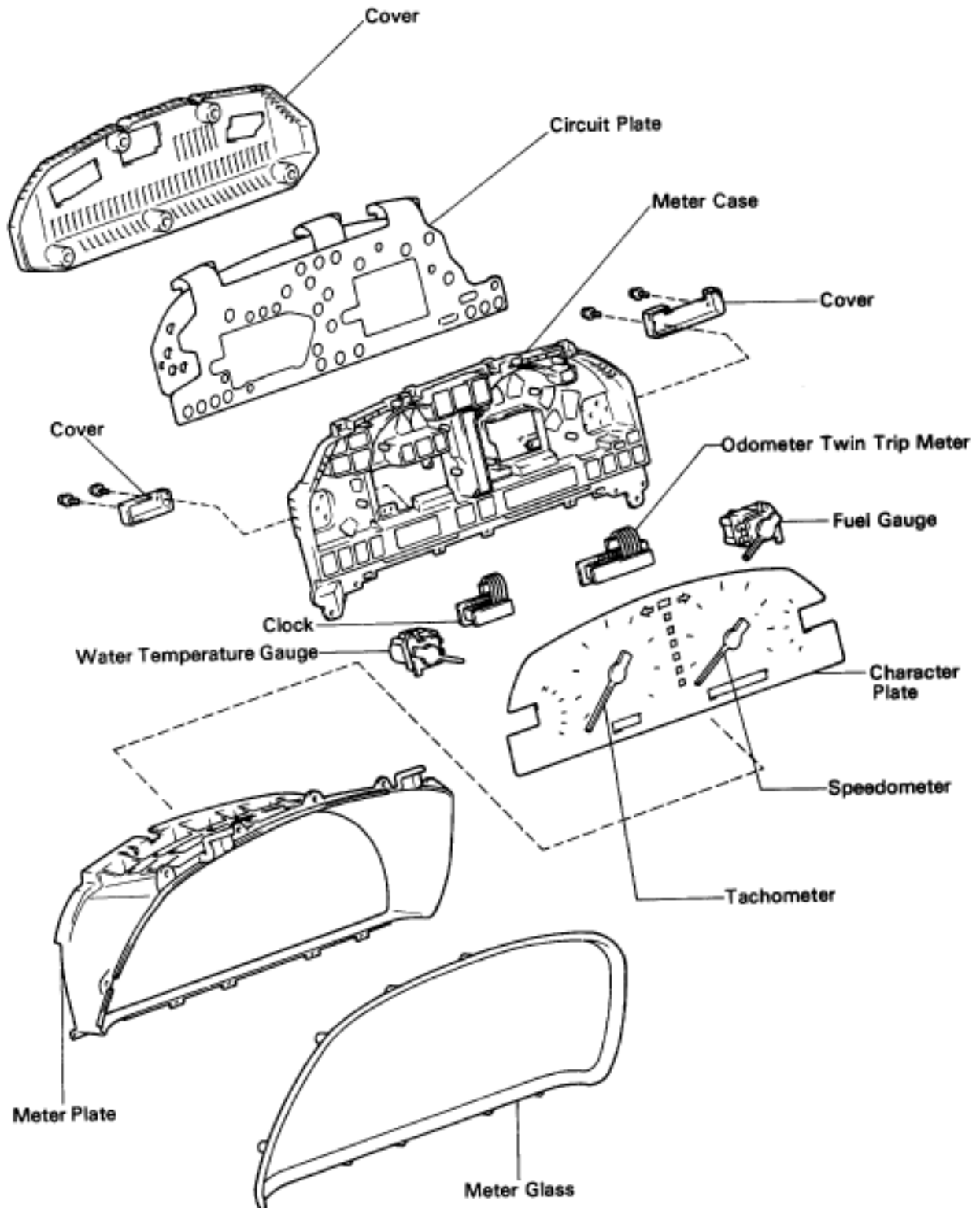
- (d) Remove four screws and disconnect three connectors.
- (e) Remove combination meter assembly.

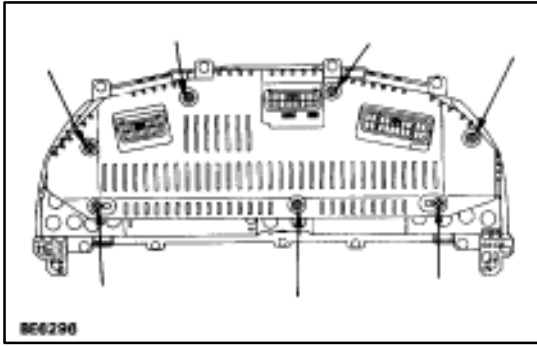


2. INSTALL COMBINATION METER ASSEMBLY

For installation, follow the removal procedure in reverse.

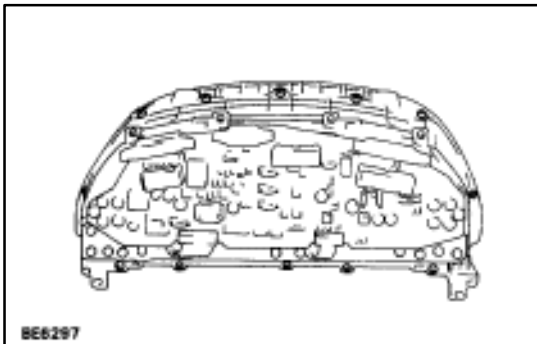
DISASSEMBLY OF COMBINATION METER ASSEMBLY (Components)





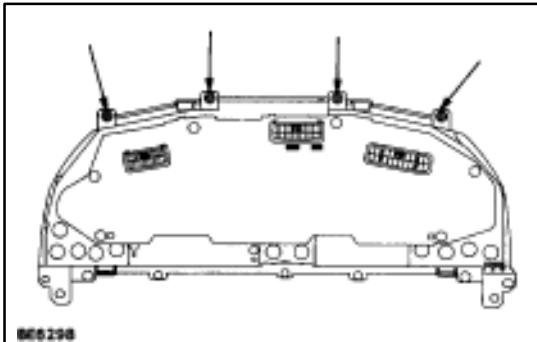
1. REMOVE COVER

- (a) Remove the seven screws.
- (b) Remove the cover from the meter case.



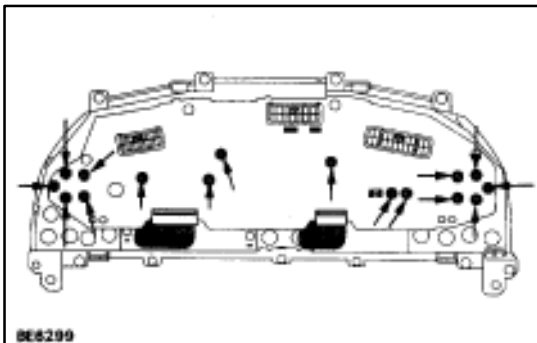
2. REMOVE METER GLASS

- (a) Remove the twelve screws.
- (b) Remove the character plate from the meter plate.



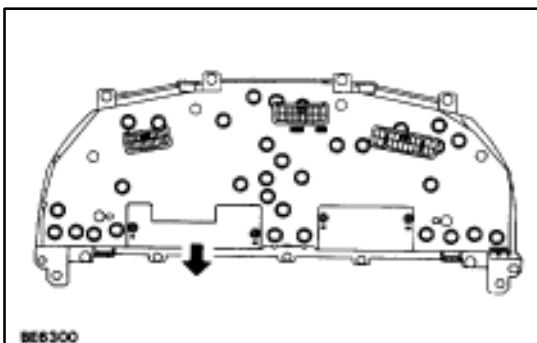
3. REMOVE METER PLATE

- (a) Remove the four screws.
- (b) Remove the meter plate from the meter case.



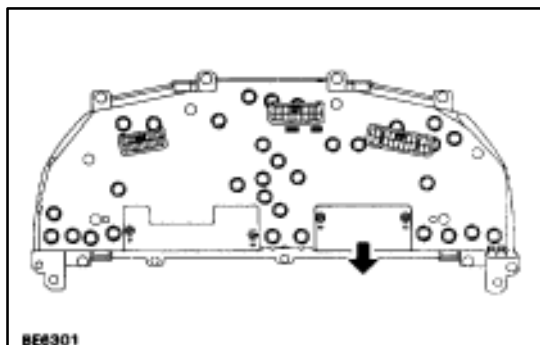
4. REMOVE METER CIRCUIT PLATE

- (a) Remove the sixteen screws.
- (b) Disconnect the two connectors from the meter circuit plate.
- (c) Remove bulbs from the meter circuit plate.
- (d) Remove the meter circuit plate.



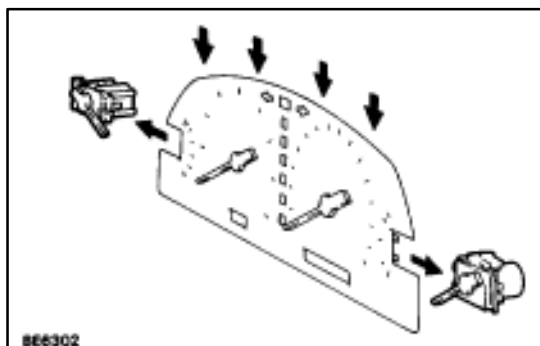
5. REMOVE ODOMETER/TRIP METER

Remove the two screws and the odometer/trip meter.



6. REMOVE CLOCK

Remove the two screws and the clock.

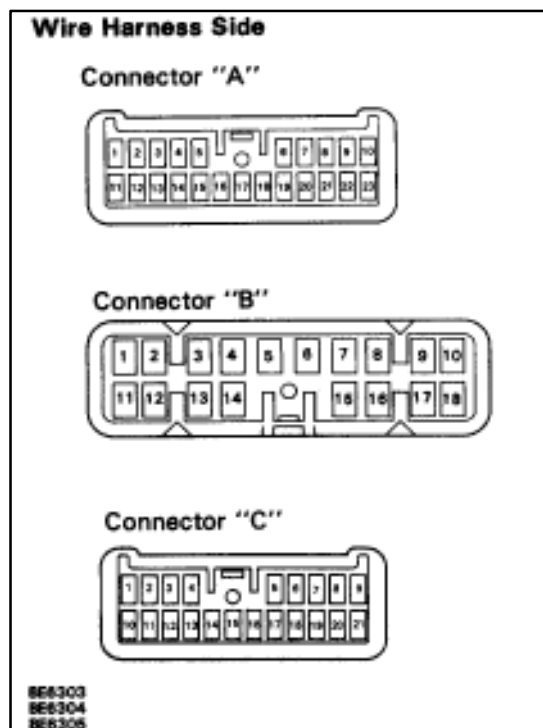


7. REMOVE FUEL AND TEMPERATURE GAUGE

Release the four lugs, and separate the two gauges from the meter lens.

ASSEMBLY OF COMBINATION METER ASSEMBLY

For installation, follow the removal procedure in reverse.



INSPECTION OF COMBINATION METER ASSEMBLY

1. INSPECT COMBINATION METER WIRING CIRCUIT

Disconnect connector A, connector B and connector C from the combination meter and inspect the connectors on the wire harness side as follows.

Connection	Check for	Tester connection	Condition		Specified value
Trip switch	Continuity	A19–A15	Trip switch A/B	Push	Continuity
				Free	No continuity
		A20–A15	Trip switch RESET	Push	Continuity
				Free	No continuity
DOME fuse	Voltage	A11–Ground	Constant		Battery voltage
Speed sensor	Voltage	A13–A15	Ignition switch ON	*3 Revolve propeller shaft	OV ↔ 11V
				*3 Stop propeller shaft	OV or 11V
Neutral start switch	Voltage	C1–Ground	Ignition switch ON and shift lever position	P	Battery voltage
		C2–Ground		R	Battery voltage
		C3–Ground		N	Battery voltage
		C4–Ground		D	Battery voltage
		C5–Ground		2	Battery voltage
		C16–Ground		L	Battery voltage
OD OFF switch	Continuity	C18–Ground	OD OFF switch	ON	Continuity
				OFF	No continuity
Alternator "L" terminal	Continuity	C15–Ground	Engine stop		Continuity
	Voltage	C14–Ground	Engine running		Battery voltage
Fuel sender gauge	Continuity	A7–Ground	Fuel remainder	Full	No continuity
				Empty	Continuity
	Resistance	A8–C8	Float position	Full, Approx. 79.3 mm (3.12 in.)	Approx. 6 Ω
				1/2, Approx. 193.1 mm (7.60 in.)	Approx. 32.5 Ω
				Empty, Approx. 308.1 mm (12.13 in.)	Approx. 97 Ω
*Window washer level washer switch	Continuity	B9–Ground (Canada)	ON (float down)		Continuity
			OFF (float up)		No continuity
Brake fluid level warning SW and Parking brake SW	Continuity	C13–Ground	Brake fluid level warning SW	ON (float down)	Continuity
				OFF (float up)	No continuity
			Parking brake SW	ON (Depress the Pedal)	Continuity
				OFF (Release the Pedal)	No continuity
Low oil Pressure warning SW	Continuity	C19–Ground	Engine condition	Running	No continuity
				Stop	Continuity
Door courtesy switch	Continuity	C12–Ground	Driver's and passenger's door	Open (ON)	Continuity
				Closed (OFF)	No continuity
IGN fuse	Voltage	C14–Ground	Ignition switch	ON	Battery voltage
				LOCK or ACC	No voltage
CIG fuse	Voltage	A6–Ground	Ignition switch	ACC on ON	Battery voltage
				LOCK or START	No voltage

Connection	Check for	Tester connection	Condition		Specified value
Turn signal SW and hazard warning switch	Voltage	B-16 – Ground	Hazard warning switch ON		Battery voltage ↔ OV
			IG SW ON and turn signal SW “Left”		Battery voltage ↔ OV
		B-17 – Ground	Hazard warning switch ON		Battery voltage ↔ OV
			IG SW ON and turn signal SW “Right”		Battery voltage ↔ OV
Headlight	Voltage	B7 – Ground	Light control SW “HEAD”	Dimmer SW “HI” or “Flash”	Battery voltage
				Dimmer SW “LO”	No Voltage
	Continuity	B6 – Ground	Light control SW “HEAD”	Dimmer SW “HI” or “Flash”	Continuity
				Dimmer SW “LO”	No continuity
Igniter	Voltage	A9 – Ground	Engine Running		Voltage fluctuates
ECT pattern select switch	Voltage	B4 – Ground	IG SW ON and ECT pattern select SW position	PWR	Battery voltage
				NORM	No voltage
Engine oil level warning switch	Continuity	B-8 – Ground	Oil temperature below approx. 55° C (131° F)		Continuity
			Oil temperature above approx. 55° C (131° F) and SW position	ON (float up)	Continuity
				OFF (float off)	No continuity
GAUGE fuse	Voltage	A1 – Ground	Ignition switch position	ON	Battery voltage
				LOCK, ACC, START	No voltage
Neutral start switch	Voltage	A12 – Ground	Ignition switch position	START (“P” or “N” range)	Battery voltage
				LOCK, ACC ,ON	No voltage
ECU-B fuse	Voltage	C11 – Ground	Ignition switch position	ON	Battery voltage
				LOCK, ACC, START	No voltage
Rheostat light control volume	Voltage	A2 – Ground	Light control SW HEAD or TAIL and rheostat volume knob position.	ON (Rheostat knob turned any position except fully clockwise)	Battery voltage or 5V or more
				OFF (Rheostat knob turned fully clockwise)	No voltage
Ground	Continuity	A8 – Ground	Constant		Continuity
		A10 – Ground	Constant		Continuity
		A22 – Ground	Constant		Continuity
		A23 – Ground	Constant		Continuity
*1 Jack up the vehicle.					
*2 Shift lever position is “P” range.					

If circuit is not as specified, refer to [BE-100](#) wiring diagrams and inspect the circuits connected to other parts.