710ET–01

ON–VEHICLE INSPECTION

1. CHECK SPEEDOMETER

(a) Check the operation.

(1) Using a speedometer tester, check the speedometer fro allowable indication error and check the operation of the odometer.

Reference: km/h (European type)

Standard indication	Allowable range
20 km/h	21 – 25 km/h
40 km/h	41.5 – 46 km/h
60 km/h	62.5 – 67 km/h
80 km/h	83 – 88 km/h
100 km/h	104 – 109 km/h
120 km/h	125 – 130.5 km/h
140 km/h	145.5 – 151.5 km/h

Reference: km/h (General export type)

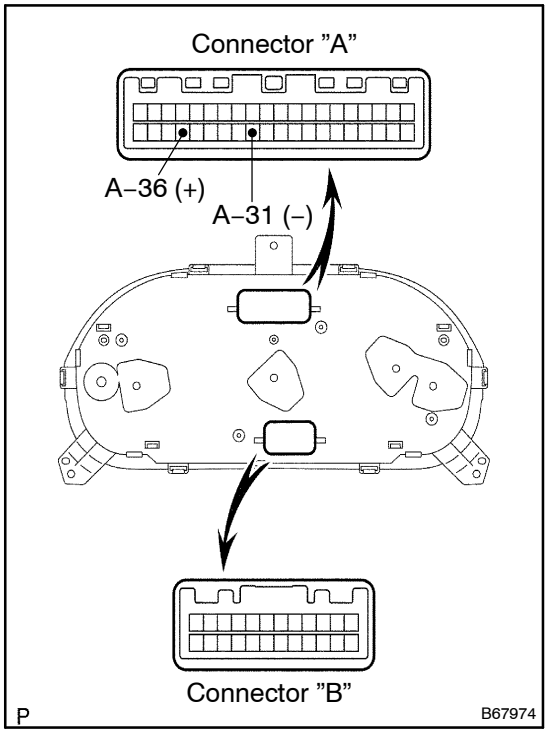
Standard indication	Allowable range
20 km/h	17.5 – 21.5 km/h
40 km/h	38 – 42 km/h
60 km/h	58 – 63 km/h
80 km/h	78 – 84 km/h
100 km/h	99 – 104.5 km/h
120 km/h	119.5 – 125.5 km/h
140 km/h	139.5 – 146.5 km/h

NOTICE:

Tire wear and tire over or under inflation will increase the indication error.

(2) Check the deflection width of the speed meter indicator.

Reference: Below 0.5 km/h (0.3 mph)



2. CHECK OUTPUT SIGNAL OF VEHICLE SPEED

(a) Check for standard signal.

(1) While driving the vehicle at the speed of 10 km/h, check the voltage between the terminals A–36 and A–31 of the combination meter assy.

Standard:

Fluctuation between 20 to 28 V or less is repeated 8 times within 1 sec.

NOTICE:

Check it with the ignition switch ON and the connector connected.

3. CHECK TACHOMETER

(a) Check the operation

(1) Connect a tune–up test tachometer, and start the engine.

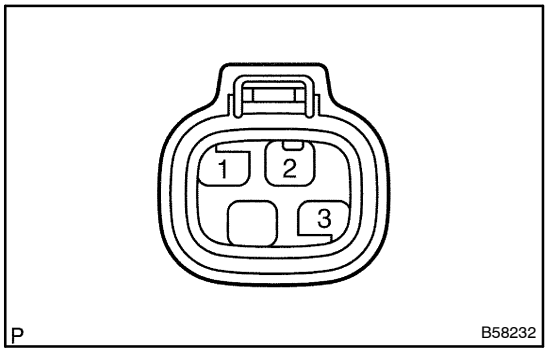
NOTICE:

- **Reversing the connection of the tachometer will damage the transistors and diodes inside.**
- **When removing or installing the tachometer, be careful not to drop or subject it to heavy shocks.**

(2) Compare the test and tachometer indications.

Standard: DC 27.0 V, 25°C at (77°F)

Standard indication (rpm)	Allowable range (rpm) Data in ( ) are for reference
700	630 – 770
1,000	(900 – 1,100)
2,000	(1,875 – 2,125)
3,000	2,850 – 3,150



4. CHECK FUEL RECEIVER GAUGE

(a) Check the circuit.

(1) Disconnect the connector from the sender gauge.

(2) Turn the ignition switch ON, then check the position of the receiver gauge needle.

Needle position: EMPTY

(3) Connect terminals 1 and 2 on the wire harness side connector and Turn the ignition switch ON, then check the position of the receiver gauge needle.

Needle position: FULL

5. CHECK FUEL LEVEL WARNING

(a) Inspect the circuit.

(1) Disconnect the connector from the sender gauge.

(2) Turn the ignition switch ON, check the fuel level needle indicates EMPTY and fuel level warning lights light on.

6. CHECK WATER TEMPERATURE RECEIVER GAUGE WARNING LIGHT

(a) Inspect the circuit.

(1) Disconnect the connector from the water temperature sensor sender gauge.

(2) Turn the ignition switch ON, check the position of the water temperature receiver gauge needle.

Needle position: COOL

(3) Ground terminal 1 on the wire harness side, then check the position of the water temperature receiver gauge needle.

Needle position: HOT

7. CHECK LOW OIL PRESSURE WARNING LIGHT

(a) Inspect the circuit.
  (1) Disconnect the connector from the low oil pressure switch.
  (2) Turn the ignition switch ON.
  (3) Connect the terminal of wire harness side connector and ground, then check the warning low oil pressure warning light.

Low oil pressure warning light: Light on

8. CHECK BRAKE WARNING LIGHT

(a) Inspect the parking brake warning light.
  (1) Disconnect the connector from the parking brake switch and ground terminal on the wire harness side connector.
  (2) Turn the ignition switch ON and check that the warning light lights up.

9. CHECK BRAKE FLUID LEVEL WARNING SWITCH

(a) Inspect the continuity.
  (1) Remove the reservoir tank cap and strainer.
  (2) Disconnect the connector.
  (3) Check that the continuity exists between the terminals.

Float up (switch off): No continuity

  (4) Use syphon, etc., to take fluid out of the reservoir.
  (5) Check that the continuity exists between the terminals.

Float down (switch on): Continuity

  (6) Pour the fluid back in the reservoir.

10. CHECK FUEL SEDIMENTER WARNING LIGHT

(a) Inspect the fuel sedimenter warning light.
  (1) Disconnect the connector from the level warning switch and connect terminals on the wire harness side connector.
  (2) Turn the ignition switch ON and check that the warning light lights up.