7105X–01

ON–VEHICLE INSPECTION

1. INSPECT SPEEDOMETER

(a) Check the operation.

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

Reference: km/h

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
160 km/h	166 – 173 km/h

Referece: mph

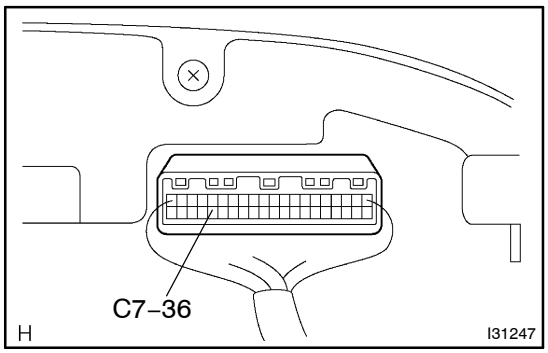
Standard indication	Allowable range
20 mph	21 – 23.5 mph
40 mph	41.5 – 44 mph
60 mph	62.5 – 66 mph
80 mph	83 – 87 mph
100 mph	104 – 108.5 mph

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. INSPECT 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 C7–36 of the combination meter assy and body ground.

Standard: Fluctuation between 10 to 14 V or less is repeated 7 times within 1 sec.

NOTICE:

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

3. INSPECT 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.

DC 13.5 V, 25 °C at (77 °F)

Standard indication (r/min)	Allowable range (r/min) Data in ( ) are for reference
700	617 – 757
1,000	(881 – 1,081)
2,000	(1,837 – 2,087)
3,000	2,793 – 3,093
4,000	(3,775 – 4,075)
5,000	4,756 – 5,056
6,000	(5,707 – 6,067)

Fuel Sender Gauge:



le–5–1–A I30899

4. INSPECT FUEL RECEIVER GAUGE

(a) Inspect 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 2 and 3 on the wire harness side connector of fuel sender gauge and between terminals on the wire harness side.

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

Needle position: FULL

5. INSPECT 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. INSPECT ENGINE COOLANT TEMPERATURE RECEIVER GAUGE WARNING LIGHT

(a) Inspect the circuit.

(1) Disconnect the connector from the sender gauge.

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

Needle position: COOL

(3) Ground terminal 2 on the wire harness side, then check the position of the water temperature receiver gauge needle.

Needle position: HOT

7. INSPECT SEAT BELT WARNING LIGHT (Driver's seat)

(a) Check the operation.
  (1) Turn the ignition switch ON and check that the warning light lights up.
  (2) Fasten the outer belt to the inner belt and check that the warning light lights out.
  (3) Disconnect the connector from the buckle switch and ground terminal on the wire harness side connector.
  (4) Turn the ignition switch ON and check that the warning light lights up.

8. INSPECT 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

9. INSPECT 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.
(b) Inspect the brake fluid level warning light.
  (1) Disconnect the connector from the brake fluid 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.

10. INSPECT 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 tank.
  (5) Check that the continuity exists between the terminals.

  Float down (switch on): Continuity

  (6) Pour the fluid back in the reservoir tank.

11. INSPECT DRIVER'S SEAT BELT WARNING BUZZER

(a) Check warning buzzer function.
  (1) Turn the ignition switch ON and check that the driver's seat belt warning sounds if the driver's seat belt is not fastened.
  (2) Check that the buzzer stop after about 4 to 8 seconds.

12. INSPECT KEY REMINDER WARNING BUZZER

(a) Check warning buzzer function.
  (1) Turn the ignition switch ON and check that the key reminder warning sounds if the ignition key is insert the key cylinder and front diriver side door is opened.