710CN–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 (Europe)

Standard indication	Allowable range
20 km/h	21 – 25 km/h
40 km/h	41.7 – 46.2 km/h
60 km/h	62.7 – 67.2 km/h
80 km/h	83.4 – 88.4 km/h
100 km/h	104.3 – 109.3 km/h
120 km/h	125.1 – 130.6 km/h
140 km/h	145.8 – 151.8 km/h
160 km/h	166.2 – 173.2 km/h
180 km/h	186.9 – 194.5 km/h

Reference: mph (Australia)

Standard indication	Allowable range
20 mph	117.5 – 21.5 mph
40 mph	38 – 42 mph
60 mph	58 – 63 mph
80 mph	78 – 84 mph
100 mph	98.5 – 104.5 mph
120 km/h	119 – 125 km/h
140 km/h	139 – 146 km/h
160 km/h	159 – 167 km/h
180 km/h	179 – 188 km/h

Reference: MPH (Europe)

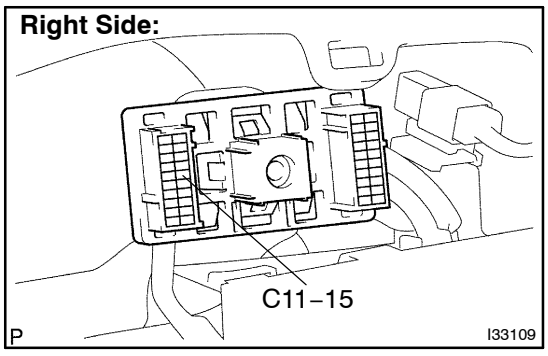
Standard indication	Allowable range
20 km/h	21 – 23.5 km/h
40 km/h	42 – 44.5 km/h
60 km/h	62.5 – 66 km/h
80 km/h	83.1 – 87.1 km/h
100 km/h	103.9 – 108.4 km/h
120 km/h	124.7 – 129.6 km/h

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. 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 C11–15 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	630 – 730
1,000	(900 – 1100)
2,000	(1850 – 2150)
3,000	2800 – 3200
4,000	(3800 – 4200)
5,000	4800 – 5200
6,000	(5750 – 6250)

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

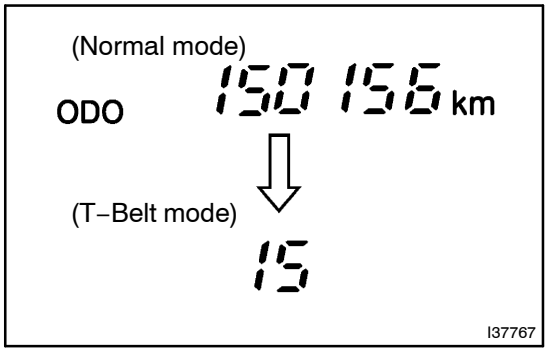
  (4) Use syphon, etc., to take fluid out of the reservoir tank.
  (5) Check that the continuity exists between the terminals.

Float down (switch on): Continuity

  (6) Pour the fluid back in the reservoir tank.
  (7) Check that the buzzer stop after about 4 to 8 seconds.

11. 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 driver side door is opened.



12. INSPECT T–BELT MODE DISPLAY

(a) Turn the ignition switch ON.

(b) Turn ODO/TRIP display screen to ODO, and turn the ignition switch OFF.

(c) While pressing the trip switch, turn the ignition switch ON and hold it for 5 secs.

(d) Release the trip switch, then press the trip switch again within 5 secs.

(e) Transfer to T–BELT mode, and the following initial setting value is displayed.

km : 15 (0,000 km) or 9 (0,000 mile)

HINT:

If the meter has been replaced before, the displayed value might not be the same as the initial setting value.

13. REWRITING REPLACEMENT SETTING VALUE

Press the trip switch and rewrite the replacement setting value.

Conditions	Setting value
When a belt is replaced	km : 15 (0,000 km) mile : 9 (0,000 mile)
When a meter is replaced	km : (15 (0,000 km)) – (Mileage when the meter is replaced.) mile : (9 (0,000 km)) – (Mileage when the meter is replaced.)

HINT:

Every press of the trip switch adds 10,000 km or 10,000 mile and the meter returns to 10,000 km or 10,000 mile when 200,000 km or 200,000 mile is reached. If switch operation is not performed within than 30 secs, the setting value will not be changed, the display screen turns to ”ODO”, and the mode returns to the normal mode.

14. T–BELT MODE COMPLETION

NOTICE:

If T–BELT mode is completed, even though belt replacement or meter replacement has not been performed, the T–BELT warning is reset.

(a) After setting the replacement setting value, hold the trip switch ON for more than 5 secs. then release the trip switch.

(b) Check that the display has changed to ”ODO” and warning light has gone OFF.