

## 3. Seat Belt Warning System

### A: WIRING DIAGRAM

<Ref. to WI-103, WIRING DIAGRAM, Seat Belt Warning System.>

### B: INSPECTION

#### TROUBLE SYMPTOM:

- Seat belt warning light does illuminate or it remains illuminating.
- Buzzer does not beep.

| Step   | Check                                     | Yes           | No   |
|--|---|---------------|--|
| <b>1</b><br><b>CHECK BODY INTEGRATED UNIT POWER SUPPLY.</b><br>1) Turn the ignition switch to ON.<br>2) Measure the voltage between body integrated unit connector and chassis ground.<br><i>Connector &amp; terminal</i><br><i>(B281) No. 19 (+) — Chassis ground (-):</i>  | Is the voltage 10 V or more?              | Go to step 2. | Check the harness between body integrated unit and battery.                    |
| <b>2</b><br><b>CHECK HARNESS BETWEEN BODY INTEGRATED UNIT AND CHASSIS GROUND.</b><br>1) Turn the ignition switch to OFF.<br>2) Disconnect the connector from body integrated unit.<br>3) Measure the resistance between body integrated unit harness connector and chassis ground.<br><i>Connector &amp; terminal</i><br><i>(B281) No. 8 — Chassis ground:</i> | Is the resistance less than 10 $\Omega$ ? | Go to step 3. | Check the harness between body integrated unit and chassis ground.             |
| <b>3</b><br><b>CHECK SEAT BELT SWITCH AND HARNESS.</b><br>1) Pull out the tongue plate from the driver's seat belt buckle.<br>2) Measure the resistance between body integrated unit harness connector and chassis ground.<br><i>Connector &amp; terminal</i><br><i>(B281) No. 3 — Chassis ground:</i>   | Is the resistance 1 M $\Omega$ or more?   | Go to step 4. | Check the harness between body integrated unit connector and chassis ground.   |
| <b>4</b><br><b>CHECK SEAT BELT SWITCH AND HARNESS.</b><br>1) Insert the tongue plate to the driver's seat belt buckle in the condition of step 3.<br>2) Measure the resistance between body integrated unit connector and chassis ground.<br><i>Connector &amp; terminal</i><br><i>(B281) No. 3 — Chassis ground:</i>  | Is the resistance less than 10 $\Omega$ ? | Go to step 7. | Go to step 5.  |
| <b>5</b><br><b>CHECK HARNESS BETWEEN BODY INTEGRATED UNIT AND SEAT BELT SWITCH.</b><br>Measure the resistance of harness between body integrated unit connector and seat belt switch.<br><i>Connector &amp; terminal</i><br><i>Without power seat</i><br><i>(B281) No. 3 — (R8) No. 2:</i><br><i>With power seat</i><br><i>(B281) No. 3 — (R188) No. 8:</i>    | Is the resistance less than 10 $\Omega$ ? | Go to step 6. | Check the harness between body integrated unit connector and seat belt switch. |

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| Step  | Check   | Yes  | No   |
|---|---|--|--|
| <b>6 CHECK HARNESS BETWEEN SEAT BELT SWITCH AND CHASSIS GROUND.</b><br>Measure the resistance of harness between seat belt switch and chassis ground.<br><i>Connector &amp; terminal</i><br><i>Without power seat</i><br>(R8) No. 1 — Chassis ground:<br><i>With power seat</i><br>(R188) No. 4 — Chassis ground:           | Is the resistance less than 10 $\Omega$ ?                                       | Go to step 7.  | Check harness between seat belt switch and chassis ground.   |
| <b>7 CHECK SEAT BELT SWITCH.</b><br>1) Pull out the tongue plate from the driver's seat belt buckle.<br>2) Measure the resistance between seat belt switch terminals.<br><i>Connector &amp; terminal</i><br><i>Without power seat</i><br>(R8) No. 1 — (R8) No. 2:<br><i>With power seat</i><br>(R188) No. 8 — (R188) No. 4: | Is the resistance 1 M $\Omega$ or more?   | Go to step 8.  | Replace the inner seat belt assembly.  |
| <b>8 CHECK SEAT BELT SWITCH.</b><br>1) Insert the tongue plate to the driver's seat belt buckle.<br>2) Measure the resistance between seat belt switch terminals.<br><i>Connector &amp; terminal</i><br><i>Without power seat</i><br>(R8) No. 1 — (R8) No. 2:<br><i>With power seat</i><br>(R188) No. 8 — (R188) No. 4:     | Is the resistance less than 10 $\Omega$ ?                                       | Go to step 9.  | Replace the inner seat belt assembly.  |
| <b>9 CHECK COMBINATION METER.</b><br>1) Turn the ignition switch to ON.<br>2) Measure the voltage between combination meter and chassis ground.<br><i>Connector &amp; terminal</i><br>(i10) No. 9 (+) — Chassis ground (-):   | Is the voltage 10 V or more?  | Go to step 10.   | Check wiring harness and combination meter, then repair or replace them.   |
| <b>10 CHECK POOR CONTACT.</b><br>Check for poor contact in seat belt warning light circuit.   | Is there poor contact?  | Repair the poor contact.   | Go to step 11.   |
| <b>11 CHECK THE BODY INTEGRATED UNIT.</b><br>1) Connect all connectors.<br>2) Turn the ignition switch to ON.<br>3) Pull out the tongue plate from the driver's seat belt buckle.<br>4) Check if the seat belt warning light illuminates.   | Does the seat belt warning light illuminate?                                    | Go to step 12.   | Inspect the connector or harness. If not defective, replace the seat belt warning light bulb in the combination meter. |
| <b>12 CHECK THE BODY INTEGRATED UNIT.</b><br>1) Connect all connectors.<br>2) Turn the ignition switch to ON.<br>3) Pull out the tongue plate from the driver's seat belt buckle.<br>4) Check if the seat belt warning light illuminates and the buzzer sounds.   | Does the seat belt warning light illuminate and the buzzer sound for 6 seconds? | A temporary poor contact of connector or harness may be the cause. Check for poor contact. | Replace the body integrated unit.  |