# TOYOTA

## LAND CRUISER 80 (RHD)

### VEHICLE SECURITY SYSTEM

#### TVSS IIIB

#### INSTALLATION INSTRUCTIONS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>CODE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAIN KIT</td>
<td>08585-00880</td>
</tr>
<tr>
<td>SUB KIT (SIREN AND RADAR)</td>
<td>08586-50820</td>
</tr>
<tr>
<td>FITTING KIT</td>
<td>08586-60950</td>
</tr>
<tr>
<td>FOR</td>
<td>FZJ80R, HDJ80R, HZJ80R</td>
</tr>
</tbody>
</table>

Manual Ref. Nr. T3RJ8-0-500

TOYOTA MOTOR CORPORATION
PLEASE READ THOROUGHLY THESE PRECAUTIONS FOR THIS SYSTEM INSTALLATION

• Be sure to disconnect the negative (-) lead from the battery terminals.

• Do not pinch the rear wiring or harness in the tightened part.

• When passing the wires through the bulkhead or other panels, use a grommet to ensure waterproofing.
  • Protect the wiring with tape when it is passed through a hole.

• When disconnecting the connectors, be sure to grip the connector body. Do not tug on the wiring.

• Do not forcibly pull any car wiring harness. Rough tugging may result in opened connections, or a broken wire or harness.

• Confirm that lamps, horn, wiper and other car accessories operate normally.

• Protect your car with wing covers, seat and so on.

• Use the correct tool when tightening bolts or nuts.

• Before drilling a hole, check that the rear of the mounting wall is clear.

• Be sure to firmly tighten connectors and terminals.

• Before connecting the power wiring to the battery, check the wiring connections, harness, etc. to see that they are properly secured.

• Check body and trim near area of installation to be certain no dirt or scratches resulted from the installation.
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### MAIN KIT

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TVSS ECU</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>REMOTE CONTROL TRANSMITTER</td>
<td>2</td>
</tr>
</tbody>
</table>

![TVSS ECU and Remote Control Transmitter](image)

### SUB KIT (SIREN AND RADAR)

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SIREN</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>SIREN BRACKET</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>BOLT</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>NUT</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>RADAR SENSOR</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>CAP</td>
<td>2</td>
</tr>
</tbody>
</table>

![Siren, Bracket, Bolt, Nut, Radar Sensor, Cap](image)

*Other parts in the kit are not used.*
<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WINDOW STICKER</td>
<td>2</td>
</tr>
<tr>
<td>2</td>
<td>WIRE HARNESS (MAIN)</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>PROTECTIVE BRACKET</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>SCREW</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>BLIND RIVET</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>BUTYL TAPE</td>
<td>1</td>
</tr>
<tr>
<td>7</td>
<td>WIRE TIE (SMALL)</td>
<td>10</td>
</tr>
<tr>
<td>8</td>
<td>WIRE TIE (LARGE)</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>FOAM (1 DIVISION ON 1 SHEET)</td>
<td>1</td>
</tr>
<tr>
<td>10</td>
<td>FOAM (2 DIVISIONS ON 1 SHEET)</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>STATUS MONITOR</td>
<td>1</td>
</tr>
<tr>
<td>12</td>
<td>GLASS BREAKAGE CONTROL UNIT</td>
<td>1</td>
</tr>
<tr>
<td>13</td>
<td>GLASS BREAKAGE SENSOR</td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>WIRE HARNESS (ENGINE)</td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>HOOD SWITCH</td>
<td>1</td>
</tr>
<tr>
<td>16</td>
<td>HOOD SWITCH BRACKET</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>MOUNTING BRACKET (FOR SIREN)</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>BOLT (M6 X 18MM) (FOR SIREN)</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>BOLT (M6 X 30MM) (FOR SIREN)</td>
<td>2</td>
</tr>
<tr>
<td>20</td>
<td>BOLT (M8 X 20MM) (FOR HOOD SWITCH)</td>
<td>1</td>
</tr>
<tr>
<td>21</td>
<td>NUT (M6)</td>
<td>3</td>
</tr>
<tr>
<td>22</td>
<td>WASHER</td>
<td>2</td>
</tr>
</tbody>
</table>
Fitting Kit for Land Cruiser 80 (RHD)
**Pos. No.** | **Description** |
---|---|
A | TVSS ECU |
B | TVSS ECU CONNECTOR (26P GREY) |
C | GROUND TERMINAL |
D | PRE-WIRE CONNECTOR (12P WHITE) |
E | STATUS MONITOR CONNECTOR (2P CLEAR) |
F | RADAR SENSOR CONNECTOR (4P WHITE) |
G | GLASS BREAKAGE CONTROL CONNECTOR (6P WHITE) |
H | GLASS BREAKAGE SENSOR CONNECTOR (2P WHITE) |
J | GLASS BREAKAGE CONTROL UNIT |
K | RADAR SENSOR |
### SYSTEM LAYOUT AND WIRE HARNESS OUTLINE (ENGINE)

<table>
<thead>
<tr>
<th>Pos. No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>PRE-WIRE CONNECTOR (6P GREY MALE)</td>
</tr>
<tr>
<td>b</td>
<td>SIREN CONNECTORS (6P GREY FEMALE)</td>
</tr>
<tr>
<td>c</td>
<td>GROUND TERMINAL</td>
</tr>
<tr>
<td>d</td>
<td>HOOD SWITCH CONNECTOR (2P WHITE)</td>
</tr>
<tr>
<td>e</td>
<td>SIREN</td>
</tr>
</tbody>
</table>
CONNECTOR ARRANGEMENT OF THE TVSS FITTING KIT (PIN VIEW)

- (female pin)
- (female pin)
- (female pin)
- (female pin)
- (male pin)
- (male pin)
- (male pin)
- (female pin)
- (female pin)
1) Remove the passenger’s side front side step cover 1.

Plastic nut

2) Peel back the carpet 2.

3) FOR MANUAL TRANSMISSION MODELS

a) Remove the gear 4 and the transfer 5 shift knobs.

b) Remove the console panel 6.

Plastic nut

8 : Screws (3x)
7 : Screw (1x)
4)
   a) Remove the transfer shift knob №.
   b) Remove the console panel №.

№: Screws (3x)
№: Screw (1x)

5)
   Remove the console compartment №.

№: Bolts (3x)

6)
   a) Remove the accessory compartment № and the ashtray №.
   b) Remove the screws № (4x) securing the centre cluster №.
   c) Remove the switch hole cover №.

№: Locks (4x)
7) Pull out the centre cluster 16.
(Do not disconnect any connector).
WIRE HARNESS (MAIN) INSTALLATION

1) Locate and pull out the 12P connector (white) in the kick panel area on the passenger’s side.
   a) Connect the fitting kit wire harness (main) 12P connector (white) to the 12P connector white.

2) Locate and remove the bolt in the kick panel area.
   a) Secure the ground terminal of the fitting kit wire harness (main) with the bolt.
   b) Lay the fitting kit wire harness (main) under the rubber trim.

3) Lay the fitting kit wire harness (main) under the carpet.
4) Lay the fitting kit wire harness (main) ② under the carpet ③.

5) Connect the fitting kit wire harness (main) ② 26P connector ⑤ (grey) to the TVSS ECU ①.
1)  
   a) Put the fitting kit wire harness (main) ① 2P connector ② through the switch hole ③ from the rear of the centre cluster ④.  
   b) Reinstall the centre cluster ⑤.  
   c) Connect the fitting kit wire harness (main) ① 2P connector ② (clear) to the status monitor’s ⑥ 2P connector (clear).  
   d) Fit the status monitor ⑦ to the switch hole ⑧.
MOUNTING THE RADAR SENSOR

1) a) Remove the cap (1) from the radar sensor (2).
   b) Locate the trimmer (3) in the small hole.
   c) Turn the trimmer (3) clockwise to the maximum.
   d) Turn the trimmer (3) counterclockwise between the first and the second position from the maximum.
   e) Test and adjust the sensor sensitivity in accordance with the SETTING GUIDE.
   f) Refit the cap (1).

2) Remove the bracket (9).

   (9): Screws (2x)

3) Fit the caps (10) (2x) to the radar sensor (2).

Figure 14

Figure 15

Figure 16
4) Attach the butyl tape 🟢 to the back of the radar sensor 🟢.

5) 
   a) Connect the fitting kit wire harness (main) 🟣 4P connector 🟡 (white) to the radar sensor 4P connector 🟢 (white).
   b) Locate and mark the radar location (shaded portion in the figure).

6) Position the radar sensor 🟢 as shown and push to attach.
1) Measure and cut the carpet as shown to make four slits △, △, △ and △.

2) Turn the sensor adjustment screw to position “9” to obtain optimum sensitivity.

   **NOTE:** False alarm may occur if the sensitivity is set too high. Test the system according to the SETTING GUIDE to ensure the correct setting.

3) 
   a) Run the wire ties ⊗ (2x) through the slits △, △, △ and △.
   b) Connect the fitting kit wire harness (main) ⊗ 6P connector ⊗ (white) to the glass breakage control unit ⊗.
4)  
Put the wire ties (2x) around the glass breakage control unit (②) and secure.
1) Remove the bolt ②.

2) Remove the passenger’s side indicator light ③.
   - ③: Screw

3) Remove the battery ④.
   - ④: Nuts (6x)
   - ⑤: Frame
   - ⑥: Hook brackets (2x)
   - ⑦: Negative battery terminal
   - ⑧: Positive battery terminal
4) Remove the ground bolt [3]. (Do not discard)

5) Remove and discard the two bolts [3] securing the fuse box [2].

6) Remove the battery cover [3].

FOR PETROL ENGINE MODELS

FOR DIESEL ENGINE MODELS

Nuts (2x)
Washers (2x)
Bracket
7) Remove the battery.

- Nuts (4x)
- Frame
- Hook brackets (2x)
- Negative battery terminal
- Positive battery terminal

8) Remove the battery tray and the ground bolt.

- Bolts (5x)
- Clip
- Foam

9) a) Lift the fuse box.

- Bolts
- Clip

b) Release the washer tank.

- Bolts (3x) (Discard two of them)
MOUNTING THE SIREN

1)  
a) Fit the mounting bracket  to the siren bracket  with bolt  and nut .
b) Fit the siren bracket  to the siren  with the bolts (2x) and nuts (2x) temporarily.

FOR PETROL ENGINE MODELS

2)  
a) Relocate the fuse box  with the bolts (2x) and the washers (2x).
b) Locate the siren bracket to the tip of the bolts .
c) Secure the siren to the vehicle with the nuts (2x).

FOR PETROL ENGINE MODELS

3)  
a) Push the siren  towards the siren bracket  .
b) Make sure to tighten the nuts (2x).
Mounting the Siren

FOR DIESEL ENGINE MODELS

4)
   a) Relocate the washer tank [13] with the bolts [15] (2x), the washers [16] (2x) and bolt [17].
   b) Locate the siren bracket to the tip of the bolts [18].
   c) Secure the siren to the vehicle with the nuts [19] (2x).

5)
   b) Make sure to tighten the nuts [10] (2x).
1) Locate the 6P connector (grey) in the brake booster area.
   a) Remove and discard the cap from the 6P connector.

2) Connect the fitting kit wire harness (engine) 6P male connector (grey) to the vehicle 6P female connector (grey).

3) Lay and attach the fitting kit wire harness (engine) with the wire ties (2x).
4) Lay and attach the fitting kit wire harness (engine) with the wire ties (3x).

5) Lay and attach the fitting kit wire harness (engine) with the wire ties (2x).

FOR PETROL ENGINE MODELS

6) a) Connect the fitting kit wire harness (engine) 6P female connector (grey) to the siren 6P male connector (grey).

b) Secure the fitting kit wire harness (engine) ground terminal with the existing bolt.

c) Attach the fitting kit wire harness (engine) with the wire tie.
**FOR DIESEL ENGINE MODELS**

7)  
   a) Connect the fitting kit wire harness (engine) ⑧ 6P female connector ⑧ (grey) to the siren 6P male connector ⑧ (grey).

   b) Secure the fitting kit wire harness (engine) ⑨ ground terminal ⑨ with the existing bolt ⑩.

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**FOR DIESEL ENGINE MODELS**

8)  
   Secure the fitting kit wire harness (engine) ⑧ with the wire tie ⑨.
1) Fit the hood switch bracket ☐ to the vehicle with the bolt ☐.

2) Fit the hood switch ☐ to the hood switch bracket ☐.

3) Connect the fitting kit wire harness (engine) ☐ 2P connector ☐ (white) to the hood switch ☐.
1)  
   a) Set the dip switches of the TVSS ECU as shown.
   b) Test the system as explained in the SETTING GUIDE.
1) a) Wrap the fitting kit wire harness to along the 26P connector (grey) in the foam.

   b) Fit the protective bracket to the TVSS ECU with the screw and the blind rivet.

   (For details of how to use the blind rivet see next figure).

2) a) Fit the nose adapter fitting to the nose of the riveting tool.

   b) Open the riveting tool and put the blind rivet on the nose.

   c) Insert the tip of the blind rivet through the hole of the TVSS ECU as far as it will go.

   d) Close the riveting tool arms repeatedly until the blind rivet comes away.

   **NOTE:** Any other blind riveting tool will do.

3) a) Attach the foam to the TVSS ECU.

   b) Run the wire ties (2x) through the holes of the TVSS ECU.
4)  
   a) Put the wire ties (2x) around the rear heater duct. 
   b) Put the TVSS ECU on to the rear heater duct.

5)  
Secure the TVSS ECU to the rear heater duct with the wire ties (2x).
1) Remove the accessory tray (3) and bracket (2) from the console compartment (1).

(3): Screw
(2): Screw (3x)

2) Route the fitting kit wire harness (main) (1) 2P connector (2) (white) in the console compartment (3) and through the hole (4) from the inside.

3) Refit the accessory tray (3) to the console compartment (2).
4) Attach the glass breakage sensor ③ to the console compartment so that the sensor ③ is located under the accessory tray ② and points to an angle of 45 degrees from top as shown.

5) a) Attach the fitting kit wire harness (main) ① 2P connector (white) to the glass breakage sensor 2P connector (white).
   b) Cut the foam ① in half and wrap the 2P connectors in one half.
   c) Put the 2P connectors into the accessory tray.

6) Attach the 2P connectors to the accessory tray by the other half of the foam ① as shown.
ATTACHING THE STICKERS

1) Attach the stickers ① to both front door windows.

7) Refit the console compartment ⑫ and bundle up the excessive part of the fitting kit wire harness (main) ⑩ into it.

REFIT THE TRIM AND REMOVED PARTS