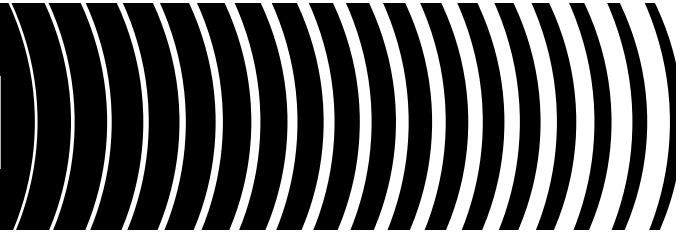
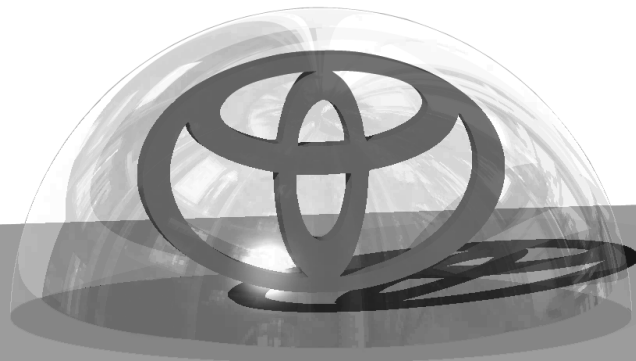


ALARM



TOYOTA VEHICLE SECURITY SYSTEM

TVSS V



Setting Guide

TABLE OF CONTENTS 

Connection and Function Test 4

Radar Sensor Sensitivity Check and Adjustment 8

Glass Breakage Sensor Sensitivity Check and Adjustment 10

Selectable Functions 12

Changing the Functions 13

- Arming mode 13
- Piezo buzzer defeat and change sound pressure..... 14
- Ignition controlled door lock 15

How to Verify the Latest Alarm Cause 16

Temporary Override 17

CONNECTION AND FUNCTION TEST



Verify the connections and functions of TVSS before mounting the TVSS ECU and refitting the removed parts. Follow all procedures below :

TESTING MODE

■ PREPARATION

- 1) Check that all connectors and terminals of the fitting kit wiring harnesses (main) and (engine) are fitted correctly.
- 2) Reconnect the negative battery cable.
- 3) Close boot and bonnet completely.
- 4) Step in the vehicle and make sure that **all doors are closed** completely.
- 5) Open all windows and put the dome light switch into the “**DOOR**” position.
- 6) Remove the key from the ignition key cylinder and push the “**unlock**” button of the remote control.
 - Indicator lights will flash 2 times.
- 7) **Insert the key** into the ignition key cylinder.
- 8) **Wait** for more than **5 seconds**.
- 9) After turning the key to the **ACC** position, turn the key from the **ACC to the ON position 5 times** within 10 seconds (Last position : ON).
 - Status Monitor LED will illuminate for 30 seconds.

Note : In case you implement six times or more by mistake, steps 7)-9) you made will be canceled. Please restart from step 7).

- 10) While the LED is illuminated :
 - Open and close **the driver's door 4 times**.
 - Turn the key to the **LOCK** position.
 - LED will flash for 20 seconds.
 - Indicator lights will flash 4 times.
- 11) While the LED is flashing :
 - **Remove the key** from the ignition key cylinder.
- 12) Step out of the vehicle and close the driver's door again.

The system is now ready for testing.

■ RADAR SENSOR TEST (if fitted)

- 13) Wait until the LED stops flashing.
 - Status Monitor LED will illuminate for 30 seconds.
- 14) While the LED is illuminating :
 - Put your hand through the opening of the window to trigger the radar sensor.
 - Indicator lights will flash 1 time.
 (Refer to pages 8 & 9 for radar sensitivity adjustment).

■ DOOR SWITCHES TEST

- 15) Wait till the LED starts flashing again then open and close the driver's DOOR.
 - Indicator lights will flash 1 time.
- 16) Test each remaining door (repeating step 15).

■ BOOT SWITCH TEST

- 17) Open and close the BOOT.
 - Indicator lights will flash 1 time.

■ BONNET SWITCH TEST (if fitted)

- 18) Open and close the BONNET.
 - Indicator lights will flash 1 time.

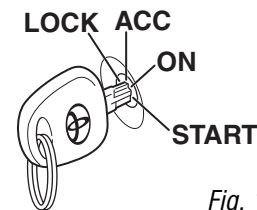


Fig. 1

■ DOOR LOCK/UNLOCK SIGNAL TEST

- 19) Press the "LOCK"-button of the remote control again.
 - ➔ Indicator lights will flash 1 time.
 - ➔ Doors will lock.
- 20) Insert the key into the key cylinder of driver's door.
(Keep the key in the door key cylinder until step 21)
- 21) Turn the key to forward of the vehicle (LOCK)
 - ➔ Indicator lights will flash 1 time.

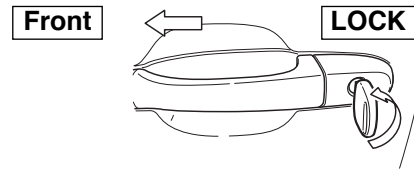


Fig. 2

- 22) Turn or pull the door lock switch located near the window or door release lever from LOCK to UNLOCK.
 - ➔ Indicator lights will flash 1 time.
 - ➔ Doors will unlock.
- 23) Turn the key in the door key cylinder to backward of the vehicle(UNLOCK).
 - ➔ Indicator lights will flash 1 time.

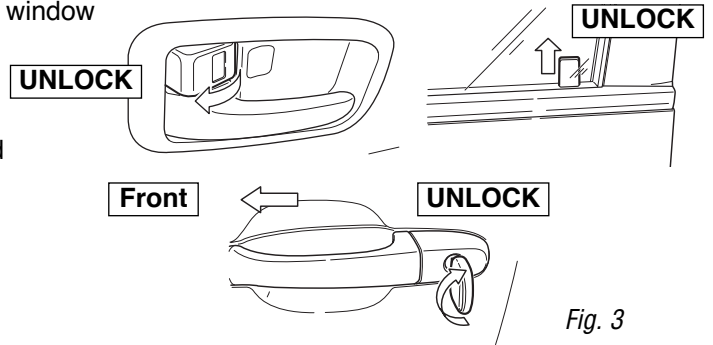


Fig. 3

- 24) Remove the key from the door key cylinder.

■ KEY UNLOCK WARNING SWITCH TEST (key detection switch)

- 25) Step in the vehicle and close the door.
 - ➔ Indicator lights will flash 1 time.
- 26) Insert the key into the ignition key cylinder.(Keep the key in the ignition key cylinder until step34)
 - ➔ Indicator lights will flash 1 time.

■ IGNITION SWITCH, DOME LIGHT, SIREN AND HORN TEST

- 27) Turn the key to the ignition-ON position.(Keep the key position in "ON" until step 34)
 - ➔ Indicator lights will flash 1 time.
 - ➔ Door will lock and unlock twice in succession.
 - ➔ Dome light will illuminate for 1 second.
 - ➔ The siren and horn will sound for 1 second.

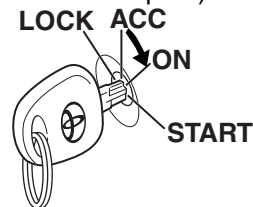


Fig. 4

■ REMOTE CONTROL TEST

- 28) Press the "LOCK"-button of the remote control.
 - ➔ Indicator lights will flash 1 time.
 - ➔ Doors will lock.
- 29) Press the "UNLOCK"-button of the remote control.
 - ➔ Indicator lights will flash 1 time.
 - ➔ Doors will unlock.

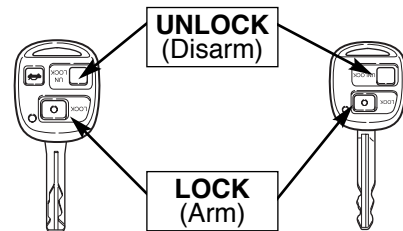


Fig. 5

■ GLASS BREAKAGE SENSOR TEST (If fitted)

- 30) Close all the windows.
- 31) Step out of the vehicle and close all doors.
 - ➔ Indicator lights will flash 1 time.
- 32) Tap the driver's door window with moderate force, by using a coin.
 - ➔ Indicator lights will flash 1 time.
 (Refer to pages 10 and 11 for Glass Breakage Sensitivity Adjustment.)

■ PIEZO BUZZER TEST (if selected see page 12) AND TEST FINISH

Note : This step should be implemented only in case PIEZO BUZZER DEFEAT is "OFF".

- 33) Open the door and step in the vehicle.
 - ➔ Indicator lights will flash 1 time.
- 34) Turn the key in the ignition key cylinder to the LOCK-position.
 - ➔ The piezo buzzer of the siren will sound 2 times.
 - ➔ Indicator lights will flash 2 TIMES.
 - ➔ Status monitor LED will stop flashing.

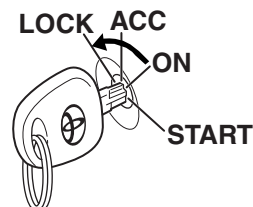


Fig. 6

STANDARD MODE

REMOTE OPERATION

- 1) Remove the key from the ignition key cylinder and make sure that all doors, boot and bonnet are completely closed.
 - Status Monitor LED will start flashing.(The immobilise system cause LED flashing.)
- 2) Press the "LOCK"-button of the remote control 1 time.
 - Indicator lights will flash 1 time.
 - Status Monitor LED will illuminate for 30 seconds.
 - Doors will lock.
- 3) Wait for 30 seconds.
 - Status Monitor LED will start flashing again.

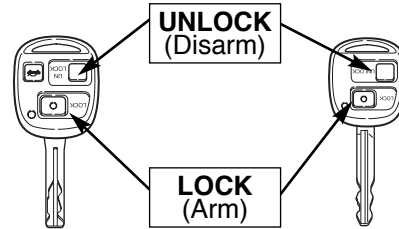


Fig. 7

Note : Once opening a door, boot or bonnet during these 30 seconds of your waiting, the system will cancel warning.

- 4) Push the "UNLOCK" button of the remote control.
 - Indicator lights will flash 2 times.
 - Status Monitor LED will continue flashing.(due to the immobilise system's function)
 - Dome light will illuminate for 5 seconds.
 - Doors will unlock.

AUTO-REARMING (AUTO-RELOCK)

- 5) Press the "UNLOCK"-button of the remote control.
 - Indicator lights will flash 2 times.
 - Status Monitor LED will stop flashing.
 - Dome light will illuminate for 5 seconds.
 - Doors will unlock.
- 6) Wait for 30 seconds.
 - Indicator lights will flash 1 time.
 - Status Monitor LED will illuminate for 30 seconds.
 - Doors will lock.

Important notes : The system will NOT Auto-rearm (NOT relock) if any of the 4 doors, boot or bonnet are opened after disarming the system.

AUTOMATIC (PASSIVE) ARMING (if selected see page 12)

- 7) Open the driver's door window.
- 8) Close all doors, boot and bonnet completely.
- 9) Wait for 30 seconds, then ;
 - Status Monitor LED will illuminate for 30 seconds.

ARMING WITHOUT RADAR SENSOR DETECTION

Note : Confirm first that the radar sensor triggers the alarm.
Refer to page 8 for radar sensor sensitivity adjustment.

- 10) Open a window.
- 11) Press the "UNLOCK"-button of the remote control.
 - Indicator lights will flash 2 times.
 - Status Monitor LED will continue flashing.
 - Doors will unlock.
- 12) Open a driver's door.
- 13) Operate the central power door lock switch to the lock and unlock positions 3 times with the driver's door opened.

(The interval between each push should be less than 5 seconds)

 - Status monitor LED will start flashing rapidly.(For 5 minutes)

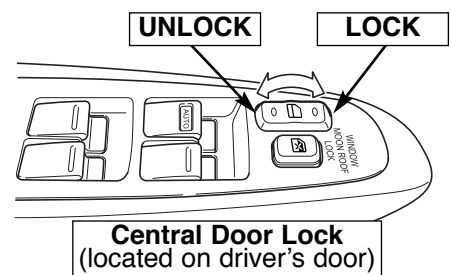


Fig. 8

- 14) Close all door, bonnet and boot then press the lock button of the remote control 1 time while LED quicker blinking.
- Indicator lights will flash 1 time.
 - Status Monitor LED will illuminate for 30 seconds.
 - Doors will lock.
- 15) Wait for 30 seconds.
- Status Monitor LED will start flashing in normal interval.
- 16) Insert your hand into the vehicle by the open window and wave it widely.
- No response.

■ ALARM AND ALARM MEMORY

- 17) Press the “LOCK”-button of the remote control 1 time.
- Indicator lights will flash 1 time.
 - Status Monitor LED will illuminate for 30 seconds.
 - Doors will lock.
- 18) Wait for 30 seconds.
- Status Monitor LED will start flashing.
- 19) Open a door by the key method.
- The siren (if fitted) will sound for 30 seconds.
 - The horn will sound for 30 seconds.
 - Indicator lights will flash rapidly for 120 seconds.
 - Status Monitor LED will illuminate for 120 seconds.
 - Dome light illuminates for 120 seconds.
- 20) Press the “UNLOCK”-button of the remote control.
- Indicator lights will flash **3 times**.
 - Status Monitor LED will continue flashing.
 - Dome light will illuminate for 5 seconds.
 - Doors will unlock.
 - The siren (if fitted) will stop sounding.
 - The horn will stop sounding.

■ DOOR AJAR WARNING (if fitted, see page 12)

Note : *This function is a default setting but can be deleted or changed sound pressure. Refer to page 14 “Piezo defeat”.*

- 21) Open a door.
- 22) Press the “LOCK”-button of the remote control.
- The piezo buzzer of the siren will sound for 10 seconds.
 - Doors will remain unlocked.

■ IGNITION CONTROLLED DOOR LOCK (if selected, see page 12)

Note : This function is default OFF but can be ON. Refer to page 15 “Ignition controlled door lock”.

- 23) Step in the vehicle and close all doors.
- 24) Insert the key into the ignition key cylinder.
- 25) Turn the key to the “ON” position.
- Doors will lock.

Override : The door lock will be overruled by operating the “central lock button” or manual door knob operation.

- 26) Turn the ignition OFF.
- Doors will unlock.

Remark : If the Ignition is turned ON a second time the “ignition controlled door lock” will NOT operate again.

■ Warning for siren disconnection

When the siren is disconnected from the power supply :
(for example vehicle battery disconnection)

In armed condition : The siren will start sounding (tampermode) 100 dB.

RADAR SENSOR SENSITIVITY CHECK AND ADJUSTMENT



Verify and adjust the radar sensor sensitivity before completing the installation of the TVSS and the refitting of the removed parts. Follow the procedures below:

PREPARATION

- 1) Check that all connectors and terminals of the fitting kit wiring harnesses (main) and (engine) are fitted correctly.
- 2) Reconnect the negative battery cable.
- 3) Open all the windows and remove the ignition key.
- 4) Verify that the trimmer of the radar sensor is at the correct position (see Installation Instructions manual for the vehicle).

VERIFICATION AND ADJUSTMENT

1) Push the "LOCK" button of the remote to arm the system.

2) Wait for 30 seconds to get ready for the radar sensor test.

3) Place your hand very close to the driver's window area. Then wave your hand sideways across about 30 cm span several times. (The purpose of this is to simulate a person's movement passing close to the vehicle). (See figure 9).

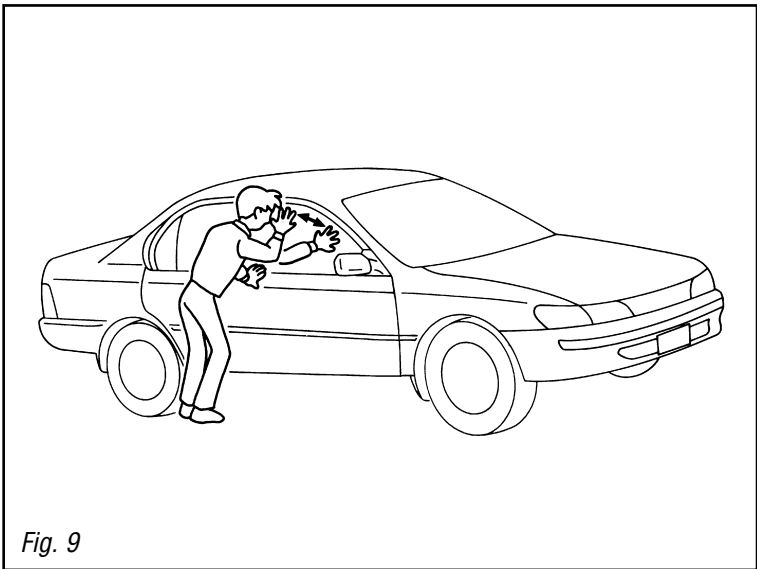
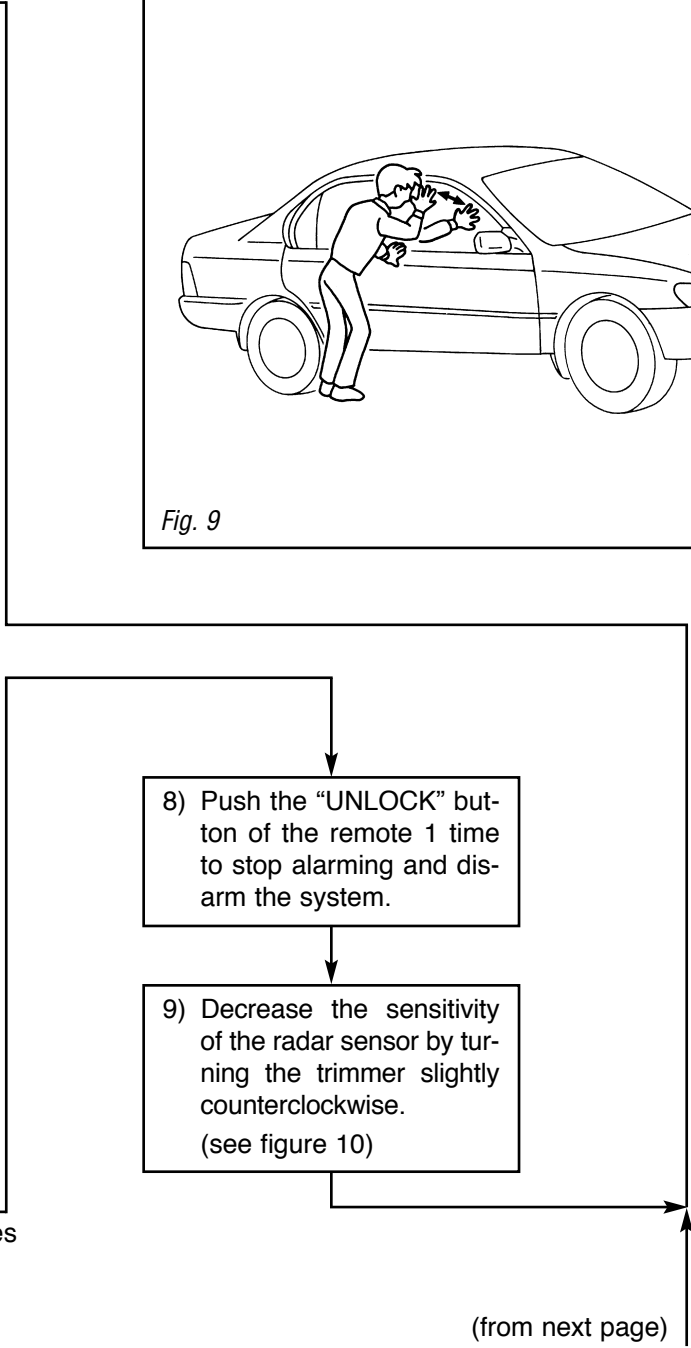


Fig. 9

4) Is the alarm triggered ?

- Status monitor LED will illuminate for 30 seconds.
- Dome light will illuminate.
- Indicator lights will flash.
- Siren (if fitted) will sound.
- Horn will sound.

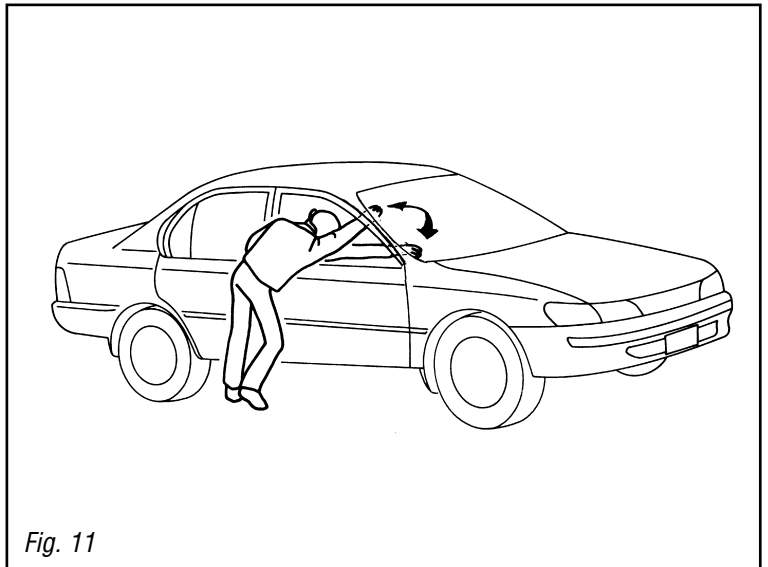
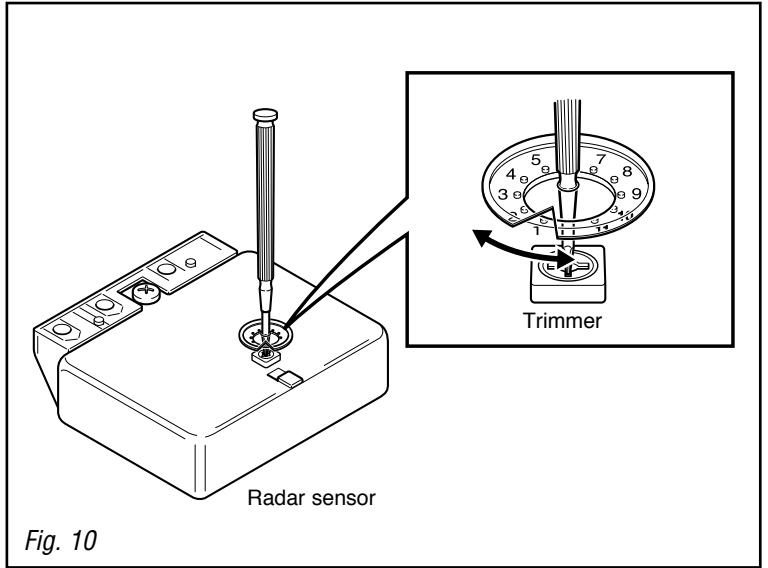
Yes	The sensor is too sensitive and must be adjusted.
No	The sensor is not too sensitive.



(from next page)

(Continue from previous page)

5) Put your hand through the driver's window and then wave your hand sideways across about 30 cm span several times (See figure 11).



6) Is the alarm triggered ?

- Status monitor LED will illuminate for 30 seconds.
- Dome light will illuminate.
- Indicator lights will flash.
- Siren (if fitted) will sound.
- Horn will sound.

No	The sensor is too unresponsive and must be adjusted.
Yes	The sensor has optimum sensitivity.

Yes

7) Verification and adjustment are over.
Push the "UNLOCK" button of the remote 1 time to stop the alarm and disarm the system.

No

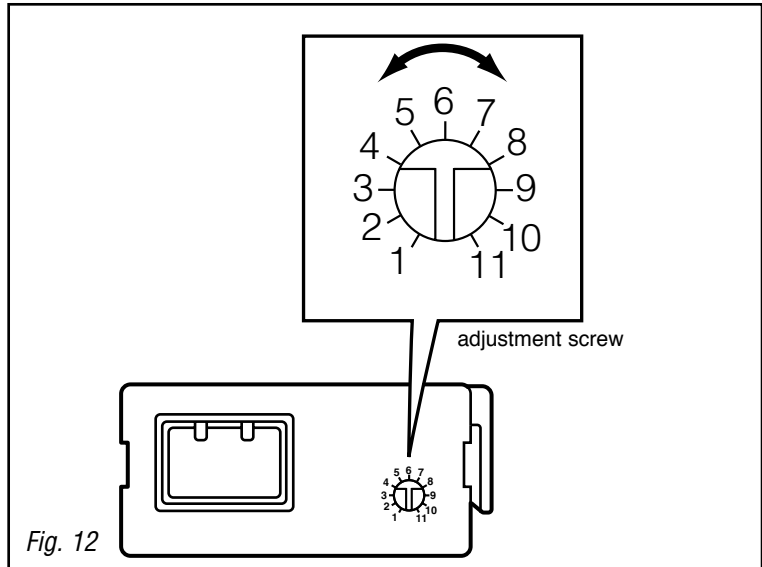
10)	Is current scale position "11" ?
Yes	The sensor may be defect. Please check the sensor.
No	Push the "UNLOCK" button of the remote 1 time to stop the alarm and disarm the system. Turn the trimmer slightly clockwise to increase the sensitivity of the radar. (See figure 10).

GLASS BREAKAGE SENSOR SENSITIVITY CHECK AND ADJUSTMENT

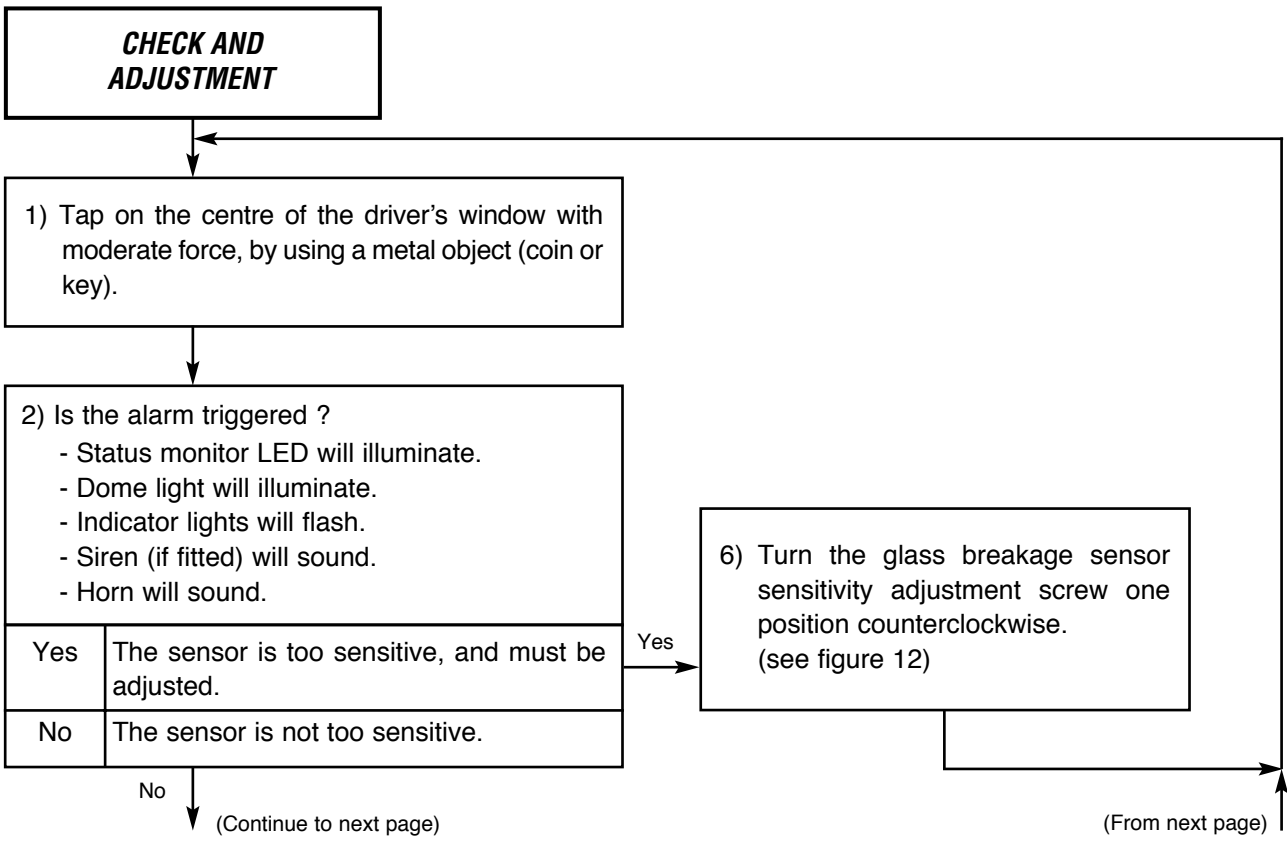
Verify and adjust the glass breakage sensor sensitivity before completing the installation of the TVSS and the refitting of the removed parts. Follow the procedures below:

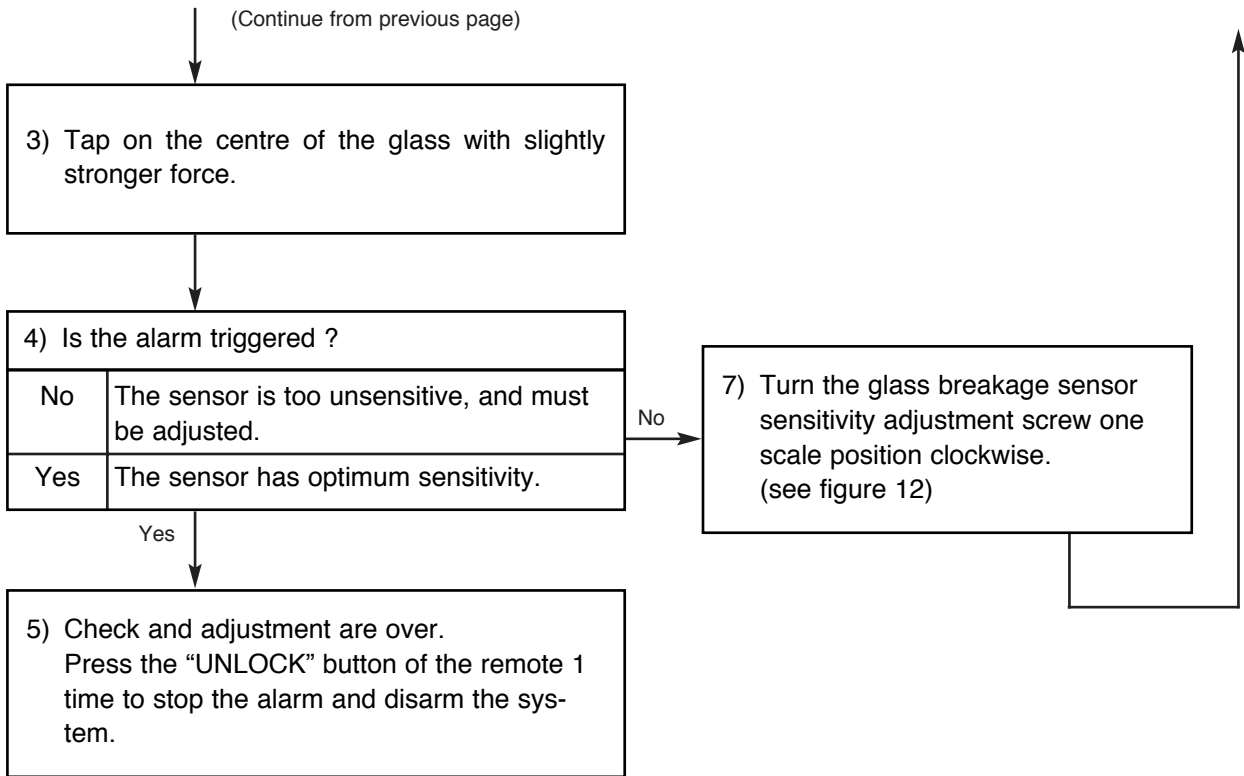
PREPARATION

- 1) Check that all connectors and terminals of the fitting kit wiring harnesses (main) and (engine) are fitted correctly.
- 2) Reconnect the negative battery cable.
- 3) Verify that the trimmer of the glass breakage sensor is set at the correct position according to the installation instructions for this vehicle.
- 4) Close all windows, all doors, boot and bonnet.
- 5) Press the "LOCK" button of the remote to arm the system.
- 6) Wait for 30 seconds until the status monitor LED starts to flash.



CAUTION: Use caution when performing the next step. Do not tap the window too hard, as this may damage the glass.





SELECTABLE FUNCTIONS



TVSS V has 3 selectable functions. The functions indicated with ♦ are the default settings. To change the settings refer to “CHANGING THE FUNCTIONS”, page 13.

1) ARMING MODE : Automatic arming ON or OFF.

♦ Automatic arming ON : (Passive mode) The alarm system will automatically arm 30 seconds after the key has been removed from the ignition cylinder AND all doors, boot and bonnet have been closed.

Remark : Should any door, the boot or bonnet be opened during the 30 seconds the system will suspend the arming process temporarily till they are closed again.

Automatic arming OFF : (Valet mode) The alarm system can only be armed and disarmed by the remote control.

2) PIEZO BUZZER DEFEAT : Door AJAR warning ON or OFF.

♦ Door ajar warning ON : When the “LOCK”-button of the remote control is pressed while any of the doors is still not completely closed, the siren will beep for 15 seconds to indicate that arming is impossible.

Door ajar warning OFF : No audible warning when the doors are not completely closed when pressing the “LOCK”-button..

3) IGNITION CONTROLLED DOOR LOCK : Door locking while driving controlled by Ignition-ON.

♦ Door locking by Ignition-ON : When the key is turned to the Ignition-ON position the doors will automatically lock.

The doors will unlock when the key is turned to the Ignition-OFF position.

Override : The door lock will be overruled by operating the “central lock button” or manual door knob operation.

Remark : If the ignition is turned ON a second time the “ignition controlled door lock” will NOT operate again.

Door locking by Ignition-OFF : The door will NOT lock when the Ignition is turned ON.

CHANGING THE FUNCTIONS



1) ARMING MODE : Automatic arming ON or OFF.

PREPARATION

- 1) Check that all connectors and terminals of the fitting kit wire harnesses (main) and (engine) are fitted correctly.
- 2) Reconnect the negative battery cable.
- 3) Remove the key from the ignition key cylinder and push the “unlock” button of the remote control.
 - Indicator lights will flash 2 times.
- 4) Close boot and bonnet completely.
- 5) Step in the vehicle and make sure that **all doors are closed** completely.
- 6) **Insert the key** into the ignition key cylinder.
- 7) **Wait** for more than **5 seconds**.
- 8) After turning the key to the **ACC** position, turn the key from the **ACC to the ON position 5 times** within 10 seconds (Last position : ON).
 - Status Monitor LED will illuminate for 30 seconds.

Note : In case you implement 6 times or more by mistake, action steps 6)-8) you made will be canceled. Please retry from step 6).

- 9) While the LED is illuminated :
 - Open and close the **driver’s door 9 times**.
 - Turn the key to the **ACC** position.
 - LED will continue illuminating.
 - Indicator lights will flash **9 times**.

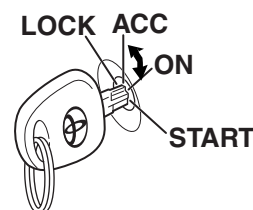


Fig. 13

Automatic arming OFF (valet mode) :

- 10) While the LED is illuminated :
 - Open and close the **driver’s door 1 time**.
 - Turn the key **ACC-ON-ACC 1 time** (Last position : ACC).
 - Indicator lights will flash **1 time**.
 - LED will extinguish.

Automatic arming ON (passive arming) :

- 10) While the LED is illuminated:
 - Open and close the **driver’s door 2 times**.
 - Turn the key **ACC-ON-ACC 1 time** (Last position : ACC).
 - Indicator lights will flash **2 times**.
 - LED will extinguish.

Note : If the system does not work after the above mentioned operation it is possible that the system is in "Temporary Override" mode. Please cancel the mode. (See the page 17)

2) PIEZO BUZZER DEFEAT AND CHANGE SOUND PRESSURE: Door AJAR warning ON or OFF.

PREPARATION

- 1) Check that all connectors and terminals of the fitting kit wire harnesses (main) and (engine) are fitted correctly.
- 2) Reconnect the negative battery cable.
- 3) Remove the key from the ignition key cylinder and push the “**unlock**” button of the remote control.
 - Indicator lights will flash 2 times.
- 4) Close boot and bonnet completely.
- 5) Step in the vehicle and make sure that **all doors are closed** completely.
- 6) **Insert the key** into the ignition key cylinder.
- 7) **Wait** for more than **5 seconds**.
- 8) After turning the key to the **ACC** position, turn the key from the **ACC to the ON position 5 times** within 10 seconds (Last position : ON).
 - Status Monitor LED will illuminate for 30 seconds.

Note : In case you implement 6 times or more by mistake, action steps 6)-8) you made will be canceled. Please retry from step 6).

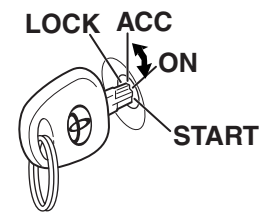


Fig. 14

- 9) While the LED is illuminated :
 - Open and close the **driver's door 1 time**.
 - Turn the key to the **ACC** position.
 - LED will continue illuminating.
 - Indicator lights will flash **1 time**.

Door AJAR warning OFF :

- 10) While the LED is illuminated:
 - Open and close the **driver's door 1 time**.
 - Turn the key **ACC-ON-ACC 1 time** (Last position : ACC).
 - Indicator lights will flash **1 time**.
 - LED will extinguish.

Door AJAR warning ON & LO sound pressure :

- 10) While the LED is illuminated :
 - Open and close the **driver's door 2 times**.
 - Turn the key **ACC-ON-ACC 1 time** (Last position : ACC).
 - Indicator lights will flash **2 times**.
 - LED will extinguish.

Door AJAR warning ON & MID sound pressure :

- 10) While the LED is illuminated :
 - Open and close the **driver's door 3 times**.
 - Turn the key **ACC-ON-ACC 1 time** (Last position : ACC).
 - Indicator lights will flash **3 times**.
 - LED will extinguish.

Door AJAR warning ON & HI sound pressure :

- 10) While the LED is illuminated :
 - Open and close the **driver's door 4 times**.
 - Turn the key **ACC-ON-ACC 1 time** (Last position : ACC).
 - Indicator lights will flash **4 times**.
 - LED will extinguish.

3) IGNITION CONTROLLED DOOR LOCK : Door locking while driving controlled by Ignition-ON.

PREPARATION

- 1) Check that all connectors and terminals of the fitting kit wire harnesses (main) and (engine) are fitted correctly.
- 2) Reconnect the negative battery cable.
- 3) Remove the key from the ignition key cylinder and push the “**unlock**” button of the remote control.
 - Indicator lights will flash 2 times.
- 4) Close boot and bonnet completely.
- 5) Step in the vehicle and make sure that **all doors are closed** completely.
- 6) **Insert the key** into the ignition key cylinder.
- 7) **Wait** for more than **5 seconds**.
- 8) After turning the key to the **ACC** position, turn the key from the **ACC to the ON position 5 times** within 10 seconds (Last position : ON).
 - Status Monitor LED will illuminate for 30 seconds.

Note : In case you implement 6 times or more by mistake, action steps 6)-8) you made will be canceled. Please retry from step 6).

- 9) While the LED is illuminated :
 - Open and close the **driver’s door 2 times**.
 - Turn the key to the **ACC** position.
 - LED will continue illuminating.
 - Indicator lights will flash **2 times**.

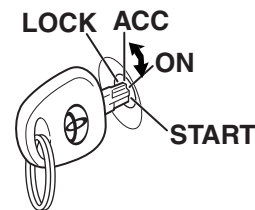


Fig. 15

Ignition controlled door lock ON :

- 10) While the LED is illuminated:
 - Open and close the **driver’s door 1 time**.
 - Turn the key **ACC-ON-ACC 1 time** (Last position : ACC).
 - Indicator lights will flash **1 time**.
 - LED will extinguish.

Ignition controlled door lock OFF :

- 10) While the LED is illuminated :
 - Open and close the **driver’s door 2 times**.
 - Turn the key **ACC-ON-ACC 1 time** (Last position : ACC).
 - Indicator lights will flash **2 times**.
 - LED will extinguish.

HOW TO VERIFY THE LATEST ALARM CAUSE

It is possible to verify the latest alarm cause by the following procedure :

PREPARATION

- 1) Check that all connectors and terminals of the fitting kit wire harness (main) and (engine) are fitted correctly.
- 2) Reconnect the negative battery cable.
- 3) Remove the key from the ignition key cylinder and push the “unlock” button of the remote control.
 - Indicator lights will flash 2 times.
- 4) Close boot and bonnet completely.
- 5) Step in the vehicle and make sure that **all doors are closed** completely.
- 6) **Insert the key** into the ignition key cylinder.
- 7) **Wait** for more than **5 seconds**.
- 8) After turning the key to the **ACC** position, turn the key from the **ACC to the ON position 5 times** within 10 seconds (Last position : ON).
 - Status Monitor LED will illuminate for 30 seconds.

Note : In case you implement 6 times or more by mistake, action steps 6)-8) you made will be canceled. Please retry from step 6).

- 9) While the LED is illuminated :
 - Open and close the **driver’s door 6 times**.
 - Turn the key to the **ACC** position.
 - LED will illuminate for 30 seconds.
 - Indicator lights will flash **6 times**.

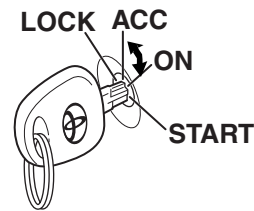


Fig. 16

Verification of the latest alarm cause :

- 10) While the LED is illuminated :
 - Open and close the **driver’s door 1 time**.
 - The indicator lights will start flashing :
COUNT HOW MANY TIMES THE INDICATOR LIGHTS ILLUMINATED (SIGNALS).

Signals	LATEST ALARM CAUSE
1	Radar Sensor
2	Glass Breakage Sensor
3	Door Switch
4	Boot/Tailgate Switch
5	Bonnet Switch
6	Ignition Switch on
7	Vehicle Battery cut-lock
8	Unlock without remote
9	Other sencor(Optional)

- 11) Turn the key **ACC-ON-ACC 1 time** (Last position : ACC).
 - LED will extinguish.

TEMPORARY OVERRIDE



The alarm system has a temporary override. It is possible to defeat the arming of the alarm system for maximum one hour.

PREPARATION

- 1) Check that all connectors and terminals of the fitting kit wire harness (main) and (engine) are fitted correctly.
- 2) Reconnect the negative battery cable.
- 3) Close boot and bonnet completely.
- 4) Remove the key from the ignition key cylinder and push the “**unlock**” button of the remote control.
 - Indicator lights will flash 2 times.
- 5) Step in the vehicle and make sure that **all doors are closed** completely.
- 6) **Insert the key** into the ignition key cylinder.

OVERRIDE ON :

- 7) Turn the **Ignition ON**.
- 8) Within 20 seconds from step 7) :
 - Open and close the **driver’s door 7 times**.
- 9) Turn the **Ignition OFF**.
 - Indicator lights will flash 1 time.
 - LED will start flashing continuously.

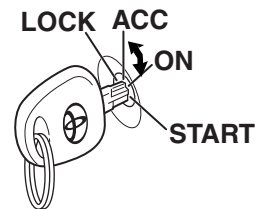


Fig. 17

OVERRIDE OFF : the override will automatically be cancelled after 1 hour.

- Indicator lights will flash 1 time.
- LED will stop flashing.

OVERRIDE OFF : If you want to stop the override earlier .

- 10) Turn the **Ignition ON**.
- 11) Within 20 seconds from step 10) :
 - Open and close the **driver’s door 7 times**.
- 12) Turn the **Ignition OFF**.
 - Indicator lights will flash 2 times.
 - LED will stop flashing.

NOTES



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