

TVSS IV-S



Manual Ref. Nr. T4SLSET-2-0

TOYOTA MOTOR CORPORATION

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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.
- Remove the key from the ignition key cylinder and push the "unlock" button of the remote control. 6) ➡ Indicator lights will flash twice.
- **Insert the key** into the ignition key cylinder. 7)
- 8) Wait for more than 5 seconds.
- After turning the key to the ACC position, turn the key from the ACC 9) to the ON position five times (Last position : ON).
 - Status Monitor LED will illuminate for 30 seconds.
- 10) While the LED is illuminated :
 - · Open and close the driver's door 7 times.
 - Turn the key to the LOCK position.
 - ➡ LED will flash for 15 seconds.
 - ➡ Indicator lights will flash 7 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 once.
 - (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 once.
- 16) Test each remaining door (repeating step 15).

BOOT SWITCH TEST

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





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BONNET SWITCH TEST (if fitted)

- 18) Open and close the BONNET.
 - ➡ Indicator lights will flash once.

■ REMOTE CONTROL TEST

- 19) Press the "LOCK"-button of the remote control.
 - Indicator lights will flash once.
 - Doors will lock.
- 20) Press the "UNLOCK"-button of the remote control.
 - Indicator lights will flash once.
 - ➡ Doors will unlock.

KEY UNLOCK WARNING SWITCH TEST (key detection switch)

- 21) Step in the vehicle and close the door.
 - Indicator lights will flash once.
- 22) Insert the key into the ignition key cylinder.
 - ➡ Indicator lights will flash once.

■ IGNITION SWITCH, DOME LIGHT, SIREN AND HORN TEST

- 23) Turn the key to the ignition-ON position.
 - Indicator lights will illuminate for 1 second.
 - Dome light will illuminate for 1 second.
 - The horn will sound for 1 second.

■ GLASS BREAKAGE SENSOR TEST (If fitted)

- 24) Close the driver's door window.
- 25) Step out of the vehicle and close all doors.

Indicator lights will flash once.

26) Tap the driver's door window with moderate force, by using a coin.
 ➡ Indicator lights will flash once.

(Refer to pages 10 and 11 for Glass Breakage Sensitivity Adjustment.)

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

- 27) Step in the vehicle and close all doors.► Indicator lights will flash once.
- 28) Turn the key to the LOCK-position.
 - The piezo buzzer of the siren will shortly sound.
 - Indicator lights will flash TWICE.
 - Status monitor LED will stop flashing.

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.
- 2) Press the "LOCK"-button of the remote control once.
 - ➡ Indicator lights will flash once.
 - ➡ Status Monitor LED will start flashing.
 - Doors will lock.
- 3) Push the "UNLOCK" button of the remote control.
 - ➡ Indicator lights will flash twice.
 - Status Monitor LED will stop flashing.
 - Dome light will illuminate for 5 seconds.
 - ➡ Doors will unlock.

■ AUTO-REARMING (AUTO-RELOCK)

- 4) Press the "UNLOCK"-button of the remote control.
 - Indicator lights will flash twice.
 - Status Monitor LED will stop flashing.
 - Dome light will illuminate for 5 seconds.
 - Doors will unlock.
- 5) Wait for 30 seconds.
 - ➡ Indicator lights will flash once.
 - Status Monitor LED will start flashing.
 - Doors will lock.

Important notes : a) The system will NOT Auto-rearm (NOT relock) if any of the 4 doors or bonnet

- are opened after disarming the system.
- b) Sedan models WILL Auto-rearm (relock) after 30 seconds if the boot has been opened after disarming the system.

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

- 6) Open the driver's door window.
- 7) Close all doors, boot and bonnet completely.
- 8) Wait for 45 seconds, then ;
 - ➡ Indicator lights will illuminate for 2 seconds.
 - Status Monitor LED will flash continuously.

■ ARMING WITHOUT RADAR SENSOR DETECTION

Note : Confirm first that the radar sensor triggers the alarm.

Refer to page 8 & 9 for radar sensor sensitivity adjustment.

- 9) Open a window.
- 10) Press the "UNLOCK"-button of the remote control.
 - ➡ Indicator lights will flash twice.
 - Status Monitor LED will stop flashing.
 - Dome light will illuminate for 5 seconds.
 - Doors will unlock.
- 11) Press the "LOCK"-button of the remote control once.
 - Indicator lights will flash once (1 second).
 - Status Monitor LED will start flashing.
 - Doors will lock.
- 12) Press the "LOCK"-button of the remote control again within 15 seconds from step 7.
 - Indicator lights will flash once, but this is a longer flash (3 seconds).

- 13) Wait for 15 seconds.
- 14) Insert your hand into the vehicle by the open window and wave it widely.
 - No response.

■ ALARM AND ALARM MEMORY

- 15) Press the "LOCK"-button of the remote control once.
 - Indicator lights will flash once.
 - Status Monitor LED will start flashing.
 - Doors will lock.
- 16) 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 30 seconds.
 - ➡ Status Monitor LED will illuminate for 30 seconds.
 - ➡ Dome light illuminates for 30 seconds.
- 17) After step 13) has finished completely, press the "UNLOCK"-button of the remote control.
 - Indicator lights will flash three times.
 - Status Monitor LED will stop 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. Refer to page 15 "Piezo defeat".

- 18) Open a door.
- 19) Press the "LOCK"-button of the remote control.
 - ➡ The piezo buzzer of the siren will sound for 15 seconds.
 - Doors will remain unlocked.

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

Note : This function is default ON but can be deleted. Refer to page 17 "Ignition controlled door lock".

- 20) Step in the vehicle and close all doors.
- 21) Insert the key into the ignition key cylinder.
- 22) Turn the key to the "ON" position.
 - Doors will lock.

Overrule : The door lock will be overruled by operating the "central lock button" or manual door knob operation.

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

Remark : If the Ignition is turned ON a <u>second</u> 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)

- a) in armed condition : The siren will start sounding (tampermode) 100 dB.
- b) in disarmed condition : The siren will bleep discretely for about 7 seconds.

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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).



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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.
- 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 2 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.



Setting Guide



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SELECTABLE FUNCTIONS

TVSS IV-S has 5 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 45 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 45 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) STATUS MONITOR LED FLASHING : Flashing while disarmed ON or OFF.

Note : This function is ONLY applicable in case the Automatic arming is LOCK (VALET mode) see 1).

Flashing while disarmed ON :	In case the driver fails to press the "LOCK"-button while leaving the vehi- cle, despite the vehicle is not locked nor armed, the Status Monitor LED will start flashing to deterrent any theft-attempt.	
Flashing while disarmed OFF :	The Status Monitor LED only flashes when the alarm system is armed.	
3) 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 pres- sing the "LOCK"-button.	
4) ANSWER BACK : Indicator	r light indication ON or OFF.	
Indicator light indication ON :	The indicator lights will flash once while the "LOCK"-button is pressed to announce the arming of the alarm system.	
	The indicator lights will flash twice while the "UNLOCK"-button is pressed to announce the disarming of the alarm system.	
Indicator light indication OFF :	1 In the event of alarm the indicator lights will flash simultaneous with siren/horn.	
	Only the Status Monitor LED indicates the status of the alarm system.	
	2 In the event of alarm the indicator lights will NOT flash.	
5) IGNITION CONTROLLED D	OOR 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 automatic ally lock.	
	The doors will unlock when the key is turned to the Ignition-OFF position.	
	Overrule : 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 twice.
- 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 five times** (Last position : ON).
 - Status Monitor LED will illuminate for 30 seconds.
- 9) While the LED is illuminated :
 - Open and close the driver's door 1 time.
 - Turn the key to the ACC position.
 - ► LED will illuminate for 30 seconds.
 - ➡ Indicator lights will flash once.

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 once.
 - ➡ 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 twice.
 - LED will extinguish.



2) STATUS MONITOR LED FLASHING : Flashing while disarmed 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 twice.
- 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 five times (Last position : ON).
 ➡ Status Monitor LED will illuminate for 30 seconds.
- 9) While the LED is illuminated :
 - Open and close the driver's door 2 times.
 - Turn the key to the ACC position.
 - ➡ LED will illuminate for 30 seconds.
 - Indicator lights will flash twice.

LED flashing while disarmed 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 once.
 - ➡ LED will extinguish.

LED flashing while disarmed 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 twice.
 - ➡ LED will extinguish.



3) PIEZO BUZZER DEFEAT : 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 twice.
- 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 five times** (Last position : ON).
 - ► Status Monitor LED will illuminate for 30 seconds.
- 9) While the LED is illuminated :
 - Open and close the driver's door 3 times.
 - Turn the key to the ACC position.
 - ➡ LED will illuminate for 30 seconds.
 - Indicator lights will flash 3 times.

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 once.
 - ➡ LED will extinguish.

Door AJAR warning ON :

- 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 twice.
 - ➡ LED will extinguish.



4) ANSWER BACK : Indicator light Indication 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 twice.
- 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 five times (Last position : ON).
 ➡ Status Monitor LED will illuminate for 30 seconds.
- 9) While the LED is illuminated :
 - Open and close the driver's door 4 times.
 - Turn the key to the ACC position.
 - ➡ LED will illuminate for 30 seconds.
 - Indicator lights will flash 4 times.

Answer back 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 once.
 - ➡ LED will extinguish.

Answer back 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 twice.
 - ➡ LED will extinguish.



5) 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 twice.
- 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 five times (Last position : ON).
 ➡ Status Monitor LED will illuminate for 30 seconds.
- 9) While the LED is illuminated :
 - Open and close the driver's door 5 times.
 - Turn the key to the ACC position.
 - ➡ LED will illuminate for 30 seconds.
 - ➡ Indicator lights will flash 5 times.

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 once.
 - 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 twice.
 - ➡ 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.
- Remove the key from the ignition key cylinder and push the "unlock" button of the remote control.
 ► Indicator lights will flash twice.
- 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 five times (Last position : ON).
 - ➡ Status Monitor LED will illuminate for 30 seconds.
- 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.

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	

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



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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 twice.
- 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 once.
 - ➡ LED will start flashing continuously.

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

- ➡ Indicator lights will flash once.
- ➡ 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 twice.
 - ➡ LED will stop flashing.

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