Part Number: PT398-48081

Conflicts

Do not install into vehicles with TDS or Vehicles without Immobilizer.

Recommended Sequence of Application

Item #	Accessory	

Kit Contents

Item #	Quantity	Description		
1	1	Wire Harness		
2	1	Sub Wire		
3	1	GBS ECU Mounting Bracket		

Hardware Bag Contents

Item #	Quantity	Description
1	1	GBS ECU
2	1	M6 Self-Tapping Screw
3	1	GBS Microphone
4	2	Foam Tape
5	10	Wire Ties
6	2	V2 Window Label w/ red tag
		(discard)
7	2	V2 Window Label w/ red tag
	<u> </u>	SPANISH (discard)
8	2	V5 Window Label
9	2	V5 Window Label SPANISH
10	1	V2 Owner's Guide (discard)
11	1	V5 Owner's Guide
12	1	Warranty Card

Additional Items Required For Installation

Item #	Quantity	Description
1	1	Black Electrical Tape

NOTE: Part number of this accessory may not be the same as the part number shown.

Recommended Tools

Personal & Vehicle	Notes			
Protection				
Safety Glasses				
Safety Gloves	(Optional)			
Vehicle Protection	Blankets, Parts Boxes			
Special Tools	Notes			
Striker Tool (PPO only)	CAD-E IADS P/N ALL 02- 016-01			
Tech Stream				
Installation Tools	Notes			
Screwdriver	#2 Phillips, Flat Blade Jewelers			
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST # 00002-06001-01			
Side Cutters				
Torque Wrench	36 in•lbf (4.06 N•m)			
Utility Knife				
Таре	Clear			
Pick Tool				
Socket	10mm, Extension			
Special Chemicals	Notes			
Cleaner	VDC Approved Cleaner			
Glass Cleaner	Household Windex			

Legend



Care must be taken when installing this accessory to ensure damage does not occur to the vehicle. The installation of this accessory should follow approved guidelines to ensure a quality installation

These guidelines can be found in the "Accessory Installation Practices" document.

This document covers such items as:

- •Vehicle Protection (use of covers and blankets, cleaning chemicals, etc.)
- •Safety (eye protection, rechecking torque procedure, etc.)
- •Vehicle Disassembly/Reassembly (panel removal, part storage, etc.)
- •Electrical Component Disassembly/Reassembly (battery disconnection, connector removal, etc.)

Please see your Toyota dealer for a copy of this document

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TOYOTA Preparation

4P WHITE (Male)	GBS ECU	8P WHITE	GBS MICROPHONE	2P WHITE (Male)	2P WHITE	WIRE TERMINAL	GROUND TERMINAL			
	B	\odot	9	E	(H)	C	E			



10mm Socket Vegative Battery Cable Battery Fig. 1-1	 (a) Vehicles with Automatic Transmission should be placed in Park and have the Parking Brake Set before disconnecting the Battery. (b) Remove the Negative Battery Cable (Fig. 1-1) (1) Protect the Fender before starting. (2) Note the Battery Cable position, as it will be reinstalled in the same position. CAUTION: Do not touch the positive terminal.
	Disassembly Overview
	$\underbrace{4}$
6	
	Remove all corresponding
Fig. 1-2 (5)	you disassembly

bly.









- (d) Remove the Glove Box Under Cover. (Fig. 1-3)
 - (1) Begin by protecting the Vehicle Interior with Blankets.

(e) Remove the Passenger's Step Cover (Fig. 1-4)

- (f) Remove the Passenger's Cowl Cover. (Fig. 1-5)
 - (1) Remove 1 Nut.

(g) Remove 2 Bolts from the Glove Box, then open the Glove Box Door. (Fig. 1-6)









(i) Dislodge the Glove Box

CAUTION: Sharp metal edges.

- (j) Disconnect all Connectors from the Glove Box. (Fig. 1-8)
- (k) Remove the Cable Clamp from the Glove Box. (Fig. 1-8)
- (l) Remove the Glove Box
- (m) Remove the Driver's Step Cover. (Fig. 1-9)

- (n) Remove the Driver's Cowl Cover.(Fig. 1-10)
 - (1) Remove 1 Nut.









2. V5 Wire Harness Installation. (Driver's Side Area)

- (a) Locate and disconnect the Vehicle's White
 26P Connector from the backside of the
 Driver's Side J/B. (Fig. 2-1)
- (b) Release the Terminal Lock on the Vehicle's 26P Connector. (Fig. 2-2)
 - (1) Do not remove the terminal lock.
- (c) Locate the Vehicle Harness' Blue Wire.Using the Pick Tool or like, release and pull out the terminal for the Blue Wire.(Fig. 2-2)
- (d) Turn the Vehicle's Blue Wire as shown.Secure the Blue Wire with Electrical Tape as shown. (Fig. 2-3)
 - (1) Make sure to cover the terminal with the electrical tape.

- (e) Insert the V5 Sub Wire's Female Terminal into the 26P Connector as shown. (Fig. 2-4)
 - (1) Verify the terminal is inserted and seated properly.
- (f) Close the Terminal Lock. (Fig. 2-4)
- (g) Reconnect the Vehicle 26P Connector to the Backside of the Driver Side J/B.







(h) Route the V5 Sub Wire back towards the Vehicles Firewall and then along the Vehicle Harness toward the Driver Side Cowl Area.(Fig. 2-5)

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(i) Secure the V5 Sub Wire to the Vehicle Harness with 4 Wire Ties. (Fig. 2-6)

- (j) Locate and remove 1 Bolt securing the Vehicle Ground Terminal. (Fig. 2-7)
- (k) Use the existing Vehicle's Bolt to secure the V5 Sub Wire's Ground Terminal to the Vehicle Ground Terminal. (Fig. 2-7)
 - (1) Make sure that the vehicle ground terminal pin seats properly.









3. V5 Wire Harness Installation. (Passenger's Side Area)

- (a) Route the V2 Harness above the Reinforcement Brace. Align the branch in the V2 Harness with the vehicle Harness Clamp. (Fig. 3-1)
- (b) Locate the Vehicle's pre-wire White Female4P connector on the right side of the BlowerMotor Housing. (Fig. 3-2)
- (c) Remove the Tape securing the 4P connector. (Fig. 3-2)
- (d) Connect the V5 Harness' 4P Connector to the Vehicle Harness' 4P connector. (Fig. 3-2)

(1) Verify secure connection.

- (e) Use 1 Wire Tie to secure the 4P Connectors to the Vehicle Harness. (Fig. 3-2)
- (f) Route the V5 Harness downward to the Passenger's Floor, securing it to the Vehicle Harness with 1 Wire Tie. (Fig. 3-3)

GO BACK TO THE V5 HARNESS' BRANCH PART.

(g) Route the V5 Harness toward the right side of the Glove Box area, securing it to the Vehicle harness with 1 Wire Tie. (Fig. 3-4)









4. GBS ECU Preparation and Installation.

- (a) Turn the sensitivity screw on the GBS ECU to the "7" position. (Fig. 4-1)
 - (1) Verify the sensitivity.

- (b) Insert the GBS ECU Bracket into the indicated bracket slot on the GBS ECU.(Fig. 4-2)
 - (1) Ensure the bracket is firmly attached to the ECU.

- (c) Cut and apply 1/3 piece of Foam Tape to the GBS ECU Bracket as shown. (Fig. 4-3)
 - (1) Do not discard the Extra Foam Tape.

- (d) Use 1 M6 Tapping Screw to install the Bracket and GBS ECU to the Reinforcement in the upper right of Glove Box area. (Fig. 4-4)
 - (1) Make sure that the bracket pin seats properly.
- **CAUTION:** Do not over tighten the screw.









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(e) Connect the V5 Harness' White 8P Connector to the GBS ECU. (Fig. 4-5)

(1) Verify secure connection.

(f) Use 1 Wire Tie to secure the V5 Harness to the Vehicle Harness. (Fig. 4-5)

5. GBS Microphone Installation.

- (a) Using the VDC approved cleaner and Cleaning Method, clean the area indicated on the backside of the Glove Box Under Cover.
 (Fig. 5-1)
- (b) Attach the GBS Microphone to the backside of the Glove Box Under Cover as shown.(Fig. 5-1)
 - (1) Do not touch the Microphone adhesive surface.
- (c) Apply 1 piece of Foam Tape onto the GBS Microphone as shown. (Fig. 5-2)
 - (1) Do not cover the Microphone opening.
- (d) Route the GBS Microphone Wires as shown and secure with 2/3 Foam Tape from Fig 4-3. (Fig. 5-2)
- (e) Reinstall the Glove Box.
- (f) Connect the V5 Harness' White 2P Connector to the GBS Microphone's 2P Connector. (Fig. 5-3)
 - (1) Verify secure connection.
- (g) Reinstall the Glove Box Under Cover.





6. Registration Preparation.

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- (a) Complete the reassembly of the vehicle.
 - (1) Reconnect any disconnected connectors.
 - (2) Verify the panels fit together properly with no uneven gaps between them.
- (b) Verify that the Short Pin is installed. (Fig. 6-1)
 - (1) If not, Install the Short Pin.
- (c) Temporarily reconnect the Negative Battery Terminal. (Fig. 6-2)

CAUTION: Do not touch the positive terminal.

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7. Registration w/ Techstream Notebook.

- (a) Connect the Techstream Notebook to the Vehicles Diagnostic Port. (Fig. 7-1)
- (b) Start the TIS Techstream Application by clicking on the shortcut located on the Desktop.

VEHICLE WITHOUT SMART KEY.

(c) Use the Vehicle Key turn the Vehicle Ignition Switch to "ON".

VEHICLE WITH SMART KEY.

- (d) With the Remote Control Key in your possession, press the Power Button twice to select the Ignition "ON"
- position.
- (e) Click "Connect to Vehicle" (Fig. 7-2)
- (f) Confirm that the information displayed on the Vehicle Connection Wizard is correct for the vehicle. If not verify that the Techstream is properly connected.
 (Fig. 7-3)
- (g) Sleect w/smart or wo/smart based on vehicle spec. (Fig. 7-3)
- (h) Click "Next>." (Fig. 7-3)

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8. Warning Label Installation.

- For US Vehicles use the English Labels and discard the Spanish Labels.
- For Mexico Vehicles use the Spanish Labels and discard the English Labels.
 - (a) Using Household Windex, clean the inside of the Front Door Windows. (Fig. 8-1)
 - (b) Place the Warning Labels (without the Red Tags) on the inside of the Front Door Windows as shown. (Fig. 8-1)
 - (1) Discard the Labels with the Red Tags
 - (2) Use a piece of clean adhesive tape to lift the Labels off their protective backing.

CAUTION: Do not touch the adhesive surface.

- (3) Line up the labels properly and place on the glass. Do not attempt to reposition the Labels once they are placed.
- (4) If the Labels are being installed with other Window Labels align them horizontally with the other Labels and 1-5mm from the last Label.



9. Completing the Installation.

- (a) Position the Negative Battery Cable at the original factory position. (Fig. 9-1)
 - (1) Tighten the Nut to 36 in•lbf ($4.06 \text{ N} \cdot \text{m}$).

CAUTION: Do not touch the positive terminal.

- (b) Clean up and remove any trash.
- (c) Place the V5 Owner's Guide and Warranty Card, sealed in the bag, in the Glove Box.
- (d) Discard V2 Owner's Guide.
- (e) Reset the Power Windows.
 - (1) Turn Ignition Key to the "ON" position.
 - (2) Push down the Power Window switches, and lower the windows halfway.
 - (3) Pull up the switches until the windows close.
 - (4) Continue holding up on the switches for a minimum of 1 second.

Checklist - these points MUST be checked to ensure a quality installation.

Accessory Function Checks

	Procedure	Look for:		
1	Press and release the remote control lock button to start the system's arming process.	The turn signal lights flash once		
		All doors lock.		
		I ne security LED lights up.		
2	Wait 30 seconds.	Security LED starts flashing; the system is now armed.		
3	Press and release the remote control's unlock	The turn signal lights flash twice.		
	button to disarm the system.	The driver's door unlocks.		
		The Security LED stops flashing.		

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Open the driver's door, insert the key into the ignition switch and turn it to "ON". Roll down all the windows, remove the key and exit the vehicle.

4	Arm and disarm the system with the remote again, then wait 30 seconds.	The doors automatically relock. The system automatically starts the arming process.		
5	Press and release the remote control's unlock button again to stop the arming process.	Refer to step 3.		
6	Insert the key into the driver's door key cylinder and turn it toward the front of the vehicle to start the arming process.	All doors lock. The Security LED lights up.		
7	Wait 30 seconds.	Security LED starts flashing; the system is now armed.		
8	Reach inside and manually unlock the driver's	The driver's door automatically relocks.		
	door to trigger an alarm.	The horn sounds repeatedly.		
		The headlights flash repeatedly.		
		The turn signal lights flash repeatedly.		
		The Security LED lights up.		
9	Manually unlock the driver's door again and	The driver's door lock attempts to lock repeatedly.		
	hold it unlocked, open the door, then sit in the driver's seat.	The horn continues to sound repeatedly.		
		The headlights and turn signal lights continue flashing.		
		The Security LED remains on.		
10	Insert the key into the ignition switch and turn it	The horn stops sounding.		
	to "START" to stop the alarm.	All the lights stop flashing and/or turn off.		
		The Security LED turns off.		
		The starter cranks and the engine starts.		

Turn	urn the key back to "LOCK", remove it, and then exit the vehicle.						
11	With the door open, press the lock switch on	All doors lock.					
	the door to lock the doors, then close the door to start the system's arming process.	The Security LED lights up.					
12	Wait 30 seconds.	SECURITY LED starts flashing; the system is now armed.					
13	Reach inside and manually unlock the front	The front passenger's door automatically relocks.					
	passenger's door to trigger an alarm.	The horn sounds repeatedly.					
		The headlights flash repeatedly.					
		The turn signal lights flash repeatedly.					
		The SECURITY LED lights up.					
14	Press and release the remote control's unlock	The horn stops sounding.					
	button to stop the alarm.	All the lights stop flashing.					
		The LED turns off.					
15	Press and release the remote control's lock button to start the system's arming process, then wait 30 seconds until the system is armed.	Refer to steps 1 and 2.					
16	Unlock and open one of the rear passenger doors to trigger an alarm. (if available).	Refer to step 13.					
17	Press and release the remote control's unlock button to stop the alarm.	Refer to Step 14					
18	Repeat the above steps with the other rear passenger door. (if available).	Refer to steps 1, 2, and 13.					

Roll up all windows, remove the key and exit the vehicle.

20	Press and release the remote control's lock button to start the arming process.	Refer to step 1.
21	Wait 30 seconds.	After 30 seconds, the LED starts flashing; the system is now armed.

Checklist - these points MUST be checked to ensure a quality installation.

Perform the following check in a temperature-controlled environment. $(50^{\circ}-90^{\circ} \text{ F})$

22	With the tip of a key, or Striker Tool pulled all the way out (PPO only), tap the center of the driver's door window to trigger the alarm.	The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The LED lights up.
23	Insert the key into the driver's door key cylinder and turn it toward the back of the vehicle to stop the alarm.	

NOTE: If the alarm does not trigger during functional verifications, increase the GBS sensitivity to the next setting.

NOTE: If you do not disarm the system, the alarm will last 20 seconds. It is not necessary to check the alarm duration.

Checklist - these points **MUST** be checked to ensure a quality installation.

Vehicle Function Check

Function	Function
Head Light	ABS Light (if equipped) If the warning light remains on, it may indicate a system malfunction.
High Beams	Rear Wiper/Washer (if equipped)
Turn Signal Lights	Clock (if equipped)
Tail Lights	Accessory Power Socket (if equipped)
Stop Lights	Starter
Backup Lights	Audio/Video (if equipped)
Hazard Lights	Power Sliding Door (if equipped)
Marker Lights	Convenience Memory Settings (if equipped)
Dome/Courtesy Lights	Heated Seats (if equipped)
Panel/Switch Illumination	Massage Seats (if equipped)
Accessory Controls/Illumination (if equipped)	Rear Window Defogger (if equipped)
Key Sensor Buzzer	Power Side Mirrors (if equipped)
Fog Lights (if equipped)	Side Mirror Defogger (if equipped)
Daytime Running Lights (if equipped)	Front Windshield Defogger (if equipped)
Trunk/Tailgate/Bed Lights (if equipped)	Navigation System (if equipped)
Glove Box Light (if equipped) I	Rear Sunshade (if equipped)
Cruise Control Light (if equipped)	Steering Wheel Audio Control (if equipped)
Seat Belt Warning Light If the warning light remains on, it may indicate a system malfunction.	Steering Wheel Column Adjusts Without Interference
Air Bag Warning Light If the warning light remains on, it may indicate a system malfunction.	Lamp Failure Sensor If the warning light remains on, it may indicate a system malfunction.

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Checklist - these points **MUST** be checked to ensure a quality installation.

Function	Function
Track/Skid Control Light (if equipped) If the warning light remains on, it may indicate a system malfunction.	Front Wiper/Washer
HVAC	Hood Latch Release
Power Locks (if equipped)	Passenger Air Bag Switch (if equipped)
Power Windows (if equipped)	Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)
Power Seats (if equipped)	
Horn	
Gauges	

Remove the short pin after Function Check. Check with your port/dealer to find out if this step is needed.

