# Part Number: 08586-3D871

#### **Kit Contents**

Item #	Quantity Reqd.	Description
1	1	Wire Harness
2	1	V5 Security ECU
3	1	ECU Mounting Bracket
4	1	GBS ECU
5	1	GBS ECU Mounting Bracket
6	1	Microphone

#### Hardware Bag Contents

Item #	Quantity Reqd.	Description
1	15	Medium Wire Ties
2	5	Large Wire Ties
3	2	Small Foam Tape Strip
4	2	Large Foam Tape Strip
5	2	Splicing Connector
6	1	Bolt
7	1	Nut
8	1	Butyl Tape
9	1	Key Tag
10	2	Warning Label
11	1	Owner's Guide
12	1	Warranty Card

### **Additional Items Required For Installation**

Item #	Quantity Reqd.	Description

#### Conflicts

Note: Must not be installed in vehicles with factory TDS.

#### **Recommended Tools**

Personal & Vehicle	Notes
Protection	
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Part Boxes
Special Tools	Notes
Striker Tool	CAD-E IADE P/N
	ALL 02-016-01
<b>Installation Tools</b>	Notes
Phillips Head Screwdriver	#2, screwdriver or tip
Flat Blade Screwdriver	Small, Flat Blade
Socket	10mm
Socket Extension	3"
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1
	Toyota SST # 00002-06001-01
Wrench	10mm
Side Cutters	

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

Torque Wrench	4.1 N·m (36 lbf·in)
Pliers	Slip-joint
Pliers	Needle Nose
Pneumatic/Electric Wrench	
<b>Special Chemicals</b>	Notes
Cleaner	3M <sup>TM</sup> Prep Solvent-70
Glass Cleaner	Household Windex
Gluss Cleaner	Trousenoid windex

#### **General Applicability**

Note: 4Runner with factory keyless entry, only.

#### **Recommended Sequence of Application**

Item #	Accessory	
1	V5	
2	Audio	

\*Mandatory

#### Vehicle Service Parts (may be required for reassembly)

Item #	Quantity Reqd.	Description

#### Legend



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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.







## 1. Vehicle Disassembly.

- (a) Remove the negative battery cable. (Fig. 1-1)
  - (1) Protect the fender before starting.
  - (2) For automatic equipped vehicles, place the shifter in low gear and set the parking brake prior to disconnecting the battery.
  - (3) Do not touch the positive terminal with any tool when removing cable.
- (b) Remove the passenger side step cover. (Fig. 1-2)
  - (1) Cover the floor and seats before starting.
- (c) Remove the passenger side cowl cover.(Fig. 1-3)
  - (1) Remove the nut securing the cover.



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- (d) Remove the glove box assembly. (Fig. 1-4)
  - (1) Remove the screw securing the glove box assembly.
  - (2) Remove the glove box damper.
- (e) Remove the cover from the upper glove box area. (Fig. 1-5)
  - (1) Remove the four screws securing the cover.
  - (2) Remove the air bag connector holder from the cover.
- (f) Remove the under-dash cover below the glove box area. (Fig. 1-6)
  - (1) Remove the one screw.
  - (2) Disconnect the two connectors on the 4WD control ECU (if equipped), and remove the one vehicle wire harness clip.

# 2. V5 Wire Harness Installation.

(a) Prepare a protective sheet (blanket), and cover the blower assembly in the glove box area with the sheet as shown. (Fig. 2-1)









- (b) Locate the vehicle harness' white 4P connector from the glove box area. (Fig. 2-2)
- (c) Plug in the V5 harness' white 4P connector to the vehicle harness' white 4P connector. (Fig. 2-2)
  - (1) Verify the connectors are plugged in securely.
- (d) Locate and disconnect the white 13P connector from the connector block in the glove box area. Plug in the V5 harness' white 13P connectors between the vehicle harness' white 13P connector and the connector block. (Fig. 2-3)
  - (1) Verify the connectors are plugged in securely.
- (e) Wrap the white 4P connectors with one large strip of foam tape. (Fig. 2-4)
- (f) Wrap the white 13P connectors, V5 harness and vehicle harness with one large strip of foam tape. (Fig. 2-4)
- (g) Wrap the V5 harness relay with one large strip of foam tape. (Fig. 2-4)
- (h) Secure the V5 harness relay to the vehicle harness with one large wire tie. (Fig. 2-4)
- (i) Secure the 4P connectors to the vehicle harness with one large wire tie. (Fig.2-4)
- (j) Secure the V5 harness to the vehicle harness with two medium wire ties. (Fig.2-4)
- (k) Locate and remove the existing bolt from the ground point in the passenger-side cowl area.(Fig. 2-5)









- Secure the V5 harness ground wire terminal, along with the vehicle harness ground wire terminal, using the existing bolt. (Fig. 2-6)
  - (1) Use the vehicle's ground bolt to secure the V5 harness ground wire.
  - (2) Verify the bolt is tight.
- (m)Secure the V5 harness with two medium wire ties. (Fig. 2-6)
- (n) Route the V5 harness toward the upper glove box area, and secure it to the vehicle harness with two medium wire ties. (Fig. 2-7)
- (o) Route the V5 harness toward the left side of the glove box area, and secure it to the vehicle harness with one medium wire tie and the existing vehicle wire clip. (Fig. 2-8)
  - Remove the vehicle wire clip on the center brace and open the vehicle wire clip.
  - (2) Route the V5 wire harness though the open vehicle wire clip.
  - (3) Close and reinstall the vehicle wire clip to the brace.
- (p) Locate the vehicle harness' white 40P connector in the upper left side of the glove box area. (Fig. 2-9)
  - (1) Remove the adjacent vehicle wire clip and tape to loosen the 40P connector.
  - (2) Reinstall the vehicle wire clip without the 40P connector.









- (q) Route the V5 harness' GREEN/RED and GRAY/GREEN wires inside the vehicle wire clip. (Fig. 2-10)
- (r) Locate the wire on the white 40P connector
  (top row, sixteenth space from the left) and attach the V5 harness' GREEN/RED wire with a splicing connector. Then locate the wire on the bottom row (sixteenth space from the left) and attach the V5 harness'
  GRAY/GREEN wire with a splicing connector. (Fig. 2-11)
  - Using a side cutter, cut 30 mm of tape from the 40P connector wire harness to expose the wires for splicing.
  - (2) Verify the correct wire and connector openings are chosen for splicing.
- (s) Wrap the V5 harness' white 40P connector with one large piece of foam tape. (Fig. 2-12)
- (t) Secure the V5 harness' GREEN/RED and GRAY/GREEN wires to the vehicle harness with two medium wire ties. (Fig. 2-12)
- (u) Secure the V5 harness' microphone wire to the vehicle harness with three medium wire ties. (Fig. 2-13)









### 3. V5 ECU Preparation and Installation.

- (a) Insert the ECU mounting bracket into the indicated bracket slot on the V5 ECU.(Fig. 3-1)
  - Before beginning this section, verify the protective sheet covering the blower assembly is still fully in place.
- (b) Plug the V5 harness' white 40P connector into the V5 ECU. (Fig. 3-2)
  - (1) Verify the connectors are plugged in securely.
- (c) Install the V5 ECU on the metal substructure of the reinforcement tube with the nut supplied in the kit. (Fig. 3-2)
  - (1) Locate the existing stud bolt on top of the metal substructure.
  - (2) Use needle nose pliers to place the nut over the stud bolt. Start the nut by hand, and finish tightening with a 10mm wrench.
  - (3) Be careful not to drop and lose the nut.
- (d) Secure the V5 harness to the vehicle harness with one medium wire tie and secure the V5 harness to the reinforcement tube with one large wire tie. (Fig. 3-3)

### 4. GBS ECU Preparation and Installation.

(a) Turn the adjustment screw on the GBS ECU to the "9" position. (Fig. 4-1)







- (b) Insert the GBS ECU mounting bracket into the indicated bracket slot on the GBS ECU. (Fig. 4-2)
  - (1) Attach the bracket as shown.
  - (2) Make sure the bracket is firmly attached to the ECU.
- (c) Apply the butyl tape to the GBS ECU as shown. (Fig. 4-2)
- (d) Locate and remove the existing bolt from the connector block in the passenger side cowl area. (Fig. 4-3)
  - (1) Discard the existing bolt.
- (e) Mount the GBS ECU on the right side of the connector block with the bolt supplied in the kit. (Fig. 4-4)
- (f) Plug the V5 harness' white 8P connector into the GBS ECU. (Fig. 4-4)
  - (1) Verify the connectors are plugged in securely.





# 5. Microphone Installation.

- (a) Using 3M<sup>TM</sup> Prep Solvent-70, clean the area indicated on the back side of the under-dash cover. (Fig. 5-1)
- (b) When cleaning with 3M<sup>TM</sup> Prep Solvent-70:
  - (1) Always use a clean (lint free scratch resistant) soft cloth (or wipe), and clean a small area at a time (3x3-ft. max.).
  - (2) Shake well.
  - (3) Apply 3M<sup>TM</sup> Prep Solvent-70 to cloth or wipe. Do not spray cleaning solution directly on any vehicle surfaces.
  - (4) Clean the surface thoroughly and wipe dry immediately with a new clean cloth. Do not allow cleaner to air dry.
- (c) Remove the backing sheet and secure the microphone to the back side of the underdash cover. (Fig. 5-1)
  - (1) Secure the microphone under the insulator at a 45° angle with the back of the microphone lined up with the front edge of the large hole as shown.
    (Fig. 5-1)
  - (2) Do not touch the adhesive surface of the microphone.
  - (3) Press the microphone to the under-dash cover firmly.
- (d) Secure the microphone with a small strip of foam tape. (Fig. 5-2)









- (e) Plug the microphone's 2P connector into the V5 harness' 2P connector. (Fig. 5-3)
  - (1) Verify the connectors are plugged in securely.
- (f) Wrap the 2P connectors with a small strip of foam tape. (Fig. 5-3)
- (g) Reinstall the under-dash cover. (Fig. 5-3)

## 6. Warning Label and Key Tag Installation.

- (a) Clean the inside surface of the front door's windows using 3M<sup>TM</sup> Prep Solvent-70 and the method in Step 5(b). (Fig. 6-1)
- (b) Place the warning label on the inside surface of the front door's window as shown. (Fig. 6-1)
  - (1) Use a piece of clear adhesive tape to lift the labels off the protective backing sheet.
  - (2) Do not touch the adhesive surface of the warning labels.
- (c) Attach the key tag to the remote control key's ring. (Fig. 6-2)



## 7. Completing the Installation

- (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) Clean up and remove any trash.
- (c) Reconnect the vehicle's negative battery cable. (Fig. 7-1)
  - Position the negative terminal at an angle of 30° to the battery as shown.
  - (2) Tighten the nut to 4.1 N•m (36 lbf•in).
  - (3) Do not touch the positive terminal with any tool when replacing the cable.
- (d) Place the owner's manual and warranty card, left in their protective bags, in the glove box.



### ΤΟΥΟΤΑ

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**TVIP V5 (RS3200PLUS)** 

Checklist - these points **MUST** be checked to ensure a quality installation. Check: Look For: Accessory Function Checks Press and release the remote control's lock 1. The turn signal lights flash once. button to start the system's arming process. All doors lock. The Security LED lights up. Wait 30 seconds. 2.After 30 seconds, the LED starts flashing; the system is now armed. Press and release the remote control's 3. The turn signal lights flash twice. The driver's door unlocks. unlock button to disarm the system. The LED stops flashing. **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. Arm and disarm the system with the remote 4. The doors automatically relock. again, then wait 30 seconds. The system automatically starts the arming process. Press and release the remote control's 5. Refer to Step 3. unlock button again to stop the arming process. Insert the key into the driver's door key 6. All doors lock. cylinder and turn it toward the front of the The LED lights up. vehicle to start the arming process. Wait 30 seconds. 7. After 30 seconds, the LED starts flashing; the system is now armed.

ΤΟΥΟΤΑ **4RUNNER** 2006 -Checklist - these points **MUST** be checked to ensure a quality installation. Check: Look For: Reach inside and manually unlock the 8. The driver's door automatically relocks. driver's door to trigger an alarm. The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The LED lights up. Manually unlock the driver's door again 9. The driver's door lock attempts to lock and hold it unlocked, open the door, then sit repeatedly. in the driver's seat. The horn continues to sound repeatedly. The headlights and turn signal lights continue flashing. The LED remains on. Insert the key into the ignition switch and

turn it to "START' to stop the alarm.

Turn the key back to "LOCK," remove

With the door open, press the lock switch

on the door to lock the doors, then close the

Reach inside and manually unlock the front

passenger's door to trigger an alarm.

door to start the system's arming process.

it, then exit the vehicle.

Wait 30 seconds.

10. The horn stops sounding. All the lights stop flashing and/ or turn off The LED turns off.

The starter cranks and the engine starts.

- 11. All doors lock. The LED lights up.
- 12. After 30 seconds, the LED starts flashing; the system is now armed.
- 13. The front passenger's door automatically relocks. The horn sounds repeatedly. The headlights flash repeatedly. The turn signal lights flash repeatedly. The LED lights up.

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ΤΟΥΟΤΑ **4RUNNER** 2006 -Checklist - these points **MUST** be checked to ensure a quality installation. Check: Look For: Press and release the remote control's 14. The horn stops sounding. unlock button to stop the alarm. All the lights stop flashing. The LED turns off. Press and release the remote control's lock 15. Refer to Steps 1 and 2. button to start the system's arming process, then wait 30 seconds until the system is armed Unlock and open one of the rear passenger 16. Refer to Step 13. doors to trigger an alarm. Repeat the above steps with the other rear 17. Refer to Steps 15 and 16. passenger door and back door (if equipped). Roll up all windows, remove the key and exit the vehicle. Press and release the remote control's lock 18. Refer to Step 1. button to start the arming process. Wait 30 seconds. 19. After 30 seconds, the LED starts flashing; the system is now armed. Perform the following check in a temperature-controlled environment (50°-90° F) Pull the striker tool all the way out to tap 20. The horn sounds repeatedly. the center of the drivers door window to The headlights flash repeatedly. trigger an alarm. The turn signal lights flash repeatedly. The LED lights up. **NOTE:** Adjust as necessary by increasing the GBS setting to the next level if the alarm does not trigger during the functional verifications. **NOTE:** If you do not disarm the system, The alarm will last 20 seconds. It is not

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# ΤΟΥΟΤΑ

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TVIP V5 (RS3200PLUS)

Checklis	st - these points <b>MUST</b> be checked to ensure	a quality installation.
C	Check:	Look For:
🗌 Iı	nsert the key into the driver's door key	21. The horn stops sounding.
c	ylinder and turn it toward the back of the	All the lights stop flashing and/ or turn
V	whicle to stop the alarm.	off.
		The Security LED turns off.
Vehicle	Function Checks	
D H	lead Lights	Functioning Head Lights
H	ligh Beams	Functioning High Beams
Т	Curn Signal Lights	Functioning Turn Signal Lights
Т	Cail Lights	Functioning Tail Lights
S	Stop Lights	Functioning Stop Lights
В	Backup Lights	Functioning Backup Lights
D H	Hazard Lights	Functioning Hazard Lights
M	Marker Lights	Functioning Marker Lights
	Dome/Courtesy Lights	Functioning Dome/Courtesy Lights
P	Panel/Switch Illumination	Functioning Switch/Illumination
	Accessory Controls/Illumination (if equipped)	Functioning Accessory Controls/Illumination
K	Key Sensor Buzzer	Functioning Key Sensor
F F	Fog Lights (if equipped)	Functioning Fog Lights
	Daytime Running Lights (if equipped)	Functioning DR Lights

TVIP V5 (RS3200PLUS)

ΤΟΥΟΤΑ **4RUNNER** 2006 -Checklist - these points **MUST** be checked to ensure a quality installation. Check: Look For: Trunk/Tailgate/Bed Lights (if equipped) **Functioning Lights** Glove Box Light (if equipped) Functioning Glove Box Light Cruise Control Light (if equipped) Functioning Cruise Control Light Seat Belt Warning Light Functioning Seat Belt Warning Light. If the warning light remains on, it may indicate a system malfunction. Air Bag Warning Light Functioning Air Bag Warning Light. If the warning light remains on, it may indicate a system malfunction. ABS Light (if equipped) Functioning ABS Light. If the warning light remains on, it may indicate a system malfunction. Lamp Failure Sensor (if equipped) Functioning Lamp Failure Light. If the warning light remains on, it may indicate a system malfunction. Track/Skid Control Light (if equipped) Functioning Track/VSC Light. If the warning light remains on, it may indicate a system malfunction. HVAC **Functioning HVAC Controls** Power Locks (if equipped) Functioning Power Locks Power Windows (if equipped) Functioning Power Windows Power Seats (if equipped) **Functioning Power Seats** Power Sunroof (if equipped) **Functioning Sunroof** Horn Functioning Horn Gauges **Functioning Gauges** Front Wiper/Washer Functioning Front Wiper/Washer

# ТОУОТА

**4RUNNER** 

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TVIP V5 (RS3200PLUS)

Check:	Look For:
Rear Wiper/Washer (if equipped)	Functioning Rear Wiper/Washer
Clock (if equipped)	Functioning Clock
Accessory Power Socket (if equipped)	Functioning Power Socket
Starter	Functioning Starter
Audio/Video (if equipped)	Functioning Audio/Video
Power Sliding Door (if equipped)	Functioning Power Sliding Door
Convenience Memory Settings (if equipped)	Functioning Memory Settings
Heated Seats (if equipped)	Functioning Heated Seats
Massage Seats (if equipped)	Functioning Massage Seats
Rear Window Defogger (if equipped)	Functioning Rear Window Defogger
Power Side Mirrors (if equipped)	Functioning Power Side Mirrors
Side Mirror Defogger (if equipped)	Functioning Side Mirror Defogger
Front Windshield Defogger (if equipped)	Functioning Front Windshield Defogge
Navigation System (if equipped)	Functioning Navigation System
Power Back Door (if equipped)	Functioning Power Back Door

Remove the appropriate fuse after checks are completed.

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