Part Number: PT398-60160

Kit Contents

Item #	Quantity	Description
1	1	RES ECU
2	1	RES Bracket
3	1	Wire Harness

Hardware Bag Contents Additional

Item#	Quantity	Description
1	10	Wire Ties
2	1	Extra Large Wire Tie
3	1	Waterproof Sheet
4	1	Double Sided Tape
5	1	Foam Tape
6	2	Foam Tape (Large)
7	2	Window Label (English)
8	2	Window Label (Spanish)
9	2	Key Tag (English)
10	2	Key Tag (Spanish)
11	1	Engine Room Label (English)
12	1	Engine Room Label (Spanish)
13	1	V4 Owner's Guide

Additional Items Required For Installation

Item#	Quantity	Description

Conflicts

Recommended Tools

Personal & Vehicle	Description
Protection	Description
Safety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets
Special Tools	
Techstream	Use latest version on TIS
Installation Tools	
Screwdriver	#2 Phillips
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota
	SST# 00002-06001-01
Side Cutters	
Torque Wrench	Battery: 48 in•lbf (5.4 N•m),
	Airbag: 108 in•lbf (12 N•m)
Таре	Clear
Socket	10mm, extension
Special Chemicals	
Cleaner	VDC Approved Cleaner

General Applicability

2016- MY Land Cruiser

Recommended Sequence of Application

Item#	Quantity	Description

Vehicle Service Parts

Item#	Quantity	Description

Legend



torque is related to safety.

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TVIP V4 REMOTE ENGINE STARTER (RES)

x1

Double Sided Tape

х1

Service Part #'s

Wire Tie

200mm

x10

PREPARATION







Accessory Installation Practice (read before installation)

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, checking 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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TVIP V4 REMOTE ENGINE STARTER (RES)







1. VI-DCM Setting Procedure

- a. Verify the D/C Cut Fuse (30A) is installed.
 - If not, install in the location shown.

- b. Connect the Techstream Notebook to the Vehicle's Diagnostic Port.
- c. Turn the Ignition Switch to "ON" position.

- d. Start the TIS Techstream Application by clicking on the shortcut located on the Desktop.
- e. Click "Connect to Vehicle."

PROCEDURE



TVIP V4 REMOTE ENGINE STARTER (RES)

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- Confirm that the information f. displayed on the Vehicle Connection Wizard is correct for the vehicle. If not, verify that the Techstream is properly connected.
- g. Select option that applies to the Vehicle.
- h. Click "Next>."

i. Click "Customize Setting."

	System Selection	on Menu					
	Air Conditioner	SRS Airbag	Main Body	Back Door	D Door Motor	Sliding Roof	
	Combination Meter	Main Body	*Accessory Gateway	*Driver Door	*Passenger Door	Driver Seat	
Health Check		Tilt& relescopic	Combination Meter	MIRTOR	Occupant Detection		
Customize Setting							
ECU Reprogramming							
CAN Bus. Check							

	Wireless Door Lock Security Wiper	Door Lock Power Window	
	Security Wiper	Power Window	
	Wiper		
		Illuminated Entry	
	Warning	Light Control	
	Tilt & Telesco	Slide Roof	
	Air Conditioner	Sensor	
	Display	Unit conversion	
	Retractable Hardtop	Smart / Access	
	Compass Colibration	Others	
	DOD & DDD acception	TVSS	
	Others	ntion Setup	
Print			
Close			

Select "Others." j.



Select Customize Function

Select Customize Parameter

Mirror Angle Proximity Sound Volume Adjust Proximity Sound Level Increase (Vehicle Starting)

Proximity Sound Control (Vehicle Stationary) DCM Microphone Volume Adjust

OCM Speaker Volume Adjus

Item Description

 ITEM
 0.7 s

 Rear Shade Delay Time
 0.7 s

 R-pos to Rear Sun Shade COM
 OFF

 Auto Fold Mirror
 ACC

 Reverse Coupled Actuation
 Default

 Mirror Angle
 Setting

Wireless Door Lock

Security Wiper

Warning Tilt & Tele

Air Cond Display Retractal

Compass PSD & PB Seat

File Function Setup TIS User Help
System Select Stored Data Customize

Close

_ 0 ×

TVIP V4 REMOTE ENGINE STARTER (RES)

 Fig. 1-7
 I. Locate "Communication Remote Engine Starter"

 • If this parameter is not available, skip to Step 1p.

 m. Select "ON."



o. Click "Next" to accept the changes to the Vehicle.



Door Lock

Power Windo

0.2 s

ON

02

02

ON

÷

OFF

01(MIN) 06 11(MAX) 01(MIN)

06

SETTING 0.9 s 0.0 s

> 05 10

05 10

04 09

04 09 14(MAX)

OFF

03 08

03 08 13



p. Click 🔀 .

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TVIP V4 REMOTE ENGINE STARTER (RES)

Indion Setup TIS User Help m Select Store/Data Customize Select Customize Function Wereless Door Lock Security Werring TIT & Telesco TIT & Telesco TIT & Telesco TIT & Telesco Far Conditioner Display Retractable Hardtop Compass Colibration PSD & PBD operation Others	Door Lock Power Window Illuminated Entry Light Control Slide Roof Sensor	È Fig. 1-10	STOP	r.	Disconnect the Negative Battery Terminal for more
Select Customize Function Wireless Door Lock Security Wiper Warning Till & Telesco Air Conditioner Display Retractable Hardtop Compass Collibration PSD & PBD operation Others	Door Lock 2 Power Window Illuminated Entry Light Control Side Roof Sensor				Battery Terminal for more
Security Wiper Warning Tit & Telesco Air Conditioner Display Refractable Hardtop Compass Colibration PSD & PBD operation Others	Power Window Power Window Illuminated Entry Light Control Side Roof Sensor				than 5 seconds
Wiper Warning Till & Telesco Air Conditioner Display Retractable Hardtop Compass Collibration PSD & PED operation Others	Illuminated Entry Light Control Slide Roof Sensor				than 5 seconds.
Warning Till & Telesco Air Conditioner Display Retractable Hardtop Compass Collibration PSD & PBD operation Others	Light Control Slide Roof Sensor				
Tilt & Telesco Air Conditioner Display Retractable Hardtop Compass Collibration PSD & PBD operation Others	Slide Roof Sensor				 Note the Battery Cable Position
Air Conditioner Display Retractable Hardtop Compass Colibration PSD & PBD operation Othors	Sensor				
Display Display Particip Compass Collibration PSD & PBD operation Others					as it will be re-installed in the
Refractable Hardtop Compass Colloration PSD & PBD operation Others	Unit conversion				
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Others	Others				·
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PROCEDURE

TVIP V4 REMOTE ENGINE STARTER (RES)

PS Dash Cover

Glove Box Under Cover

Disassembly Overview		1
		2
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		4
		5
		6
		7
A COLOR		8
	STO	Dis Co
হ] [] ;	3. Ve
Nylon Panel Removal Tool Fig. 3-1		a.

PS Step Cover **PS Cowl Cover PS Knee Panel** PS Cluster Side Panel PS Knee Airbag Glove Box sconnect all Corresponding nnectors.

hicle Disassembly.

- Dislodge the Glove Box Under Cover.
 - Disconnect all Connectors.

PROCEDURE

- b. Remove the Passenger's Side Dash Cover.
 - Apply protective Tape on pry area.





c. Remove the Passenger's Side Step Cover.

• Disconnect All Connectors.

NOTE: Prevent bending the Passenger's Side Step Cover.

NOTE: Ensure Illuminator connectors are disconnected if present.

d. Using your hands, remove the Passenger's Side Knee Panel.

CAUTION: Avoid using excessive force when removing the Passenger's Side Knee Panel to prevent damage.

 \wedge

Fig. 3-4

TVIP V4 REMOTE ENGINE STARTER (RES)



 Vylon Panel Removal Tool
 Fig. 3-6



- e. Remove the Passenger's Cluster Side Panel.
 - Remove 1 Screw and 1 Clip.

- f. Remove the Passenger's Side Cowl Cover.
 - Remove 1 Nut.

- g. Dislodge the Passenger's Knee Airbag carefully.
 - Remove 4 Bolts.

CAUTION: Do not disconnect the Vehicle's Airbag Connector.

TVIP V4 REMOTE ENGINE STARTER (RES)

of the TVIP box.

Airbag Harness.

h. Wrap the Airbag in a Blanket

CAUTION: Prevent stress on the

or the like and place it on top





i. Remove 2 Bolts from the bottom of the Glove Box.

j. Open the Glove Box Door, then remove 2 Bolt Covers.

NOTE: Temporarily remove contents inside of Glove Box and ensure contents are put back in Fig. 6-1.

- k. Dislodge the Glove Box.
 - Remove 2 Bolts.

STOP



PROCEDURE

TVIP V4 REMOTE ENGINE STARTER (RES)

- I. Remove the Vehicle Harness from the backside of the Glove Box, remove the Glove Box.
 - Disconnect any Connectors.





4. V4 Harness Installation.

NOTE: Ensure all RES Kit Contents are thoroughly inspected.

a. Locate the Vehicle's 5P White Pre-Connector and remove the tape securing it.



- b. Cut Small Foam Tape in Half.
- c. Use the Half Small Foam Tape to wrap the Vehicle's 5P Pre-Connector.

PROCEDURE

2016– TVIP V4 REMOTE ENGINE STARTER (RES)

d. Route the V4 Harness toward the Glove Box area.







e. Connect the V4 5P White Connector to the Vehicle's 5P Pre-Connector.

- f. Secure the 5P White Connectors to the Vehicle Harness with 1 Wire Tie.
- g. Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie.

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PROCEDURE



- h. Secure the V4 Harness to the Vehicle Harness with 1 Wire Tie.
- Secure the V4 Harness to i. the Vehicle Bracket Hole with 1 Wire Tie.



Secure the V4 Harness to j. the Vehicle Harness using 2 Wire Ties as shown.

PROCEDURE

2016-



Fig. 5-5

TVIP V4 REMOTE ENGINE STARTER (RES)

Slot corner.

shown.

•

f.

Apply Large Foam Tape

Piece to the RES ECU as

Ensure Large Foam Tape corners line up with the RES ECU Bracket



- g. Turn over the Floor Carpet on the left side of the Passenger's Side Area.h. Pull back the Felt on the
 - n. Pull back the Felt on the backside of the Floor Carpet as shown.
 - Do not remove or cut off the Felt.
- Floor Carpet



i. Connect the V4 Harness 24P White Connector to the RES ECU.

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PROCEDURE

TVIP V4 REMOTE ENGINE STARTER (RES)



to the inner Vehicle Brace

NOTE: Do not use the front hole of the Vehicle Brace.

PROCEDURE

- o. Attach 1 Large Foam Tape to the Vehicle's Brace and the V4 Harness as shown.
- p. Put the Floor Carpet back.





6. Registration Preparation.

a. Finish reassembling the Vehicle.

NOTE: When reinstalling Knee Airbag, make sure to torque the Bolts.

Torque: 12 N•m (108 in•lbf)



STOP

S,

NOTE: Put back removed contents inside Glove Box.

	1	Glove Box
	2	PS Knee Airbag
	3	PS Cluster Side Panel
	4	PS Knee Panel
	5	PS Cowl Cover
	6	PS Step Cover
	7	PS Dash Cover
	8	Glove Box Undercover
s	PRe Co	connect all Corresponding nnectors.

PROCEDURE



PROCEDURE





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rols keyless entry and starting engine II determines whether or not to disable starting the engine depending on a comparison of the ID code and the vehicle's pre-registered code		This ECU controls keyless	and york and an ing engine is a					

TVIP V4 REMOTE ENGINE STARTER (RES)

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- f. Start the TIS Techstream Application by clicking on the shortcut located on the Desktop.
- g. Click "Connect to Vehicle."

- h. Confirm that the information displayed on the Vehicle Connection Wizard is correct for the vehicle. If not verify that the Techstream is properly connected.
- i. Select option that applies to the Vehicle.
- j. Click "Next>."

k. Select "Smart Key".



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Tehstream (Ver 7,30,025)- 11345 File Function Setup TIS User Help ect Stored Data Smart Access Live Utility Selection Menu Select desired Utility and then press Next button ox x ECU Communication ID Registration(SMRT-17-001) Operation History Welcome to ECU Communication ID Registration wizard This function is used to perform the "hand shake" procedure Confirm the following conditions - The Power/Engine Switch is ON(IG) - Smart Cancel function is OFF 펳 4 (Usage) Use htis function in the following situation - Certification ECU has replaced (Introduction) This function regidters the communication ID b ₹ Next > Cancel >

- - n. Select "ECU Communication ID Registration."
 - o. Click 🛋.

p. Click "Next>."

m. Click on "Utility."

REMOTE ENGINE STARTER (RES)

TVIP V4

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Fig. 7-10 Tehstream (Ver 7,30,025)- 11345 up TIS User la Smart Ao ess Live Utility Selection Menu CU Communication ID Registration(SMRT-17-002) Select desired Utility and then press Operation History ID Code Box and Steering Lock art Code Reg Make a selection and press Next to "handshake" the selected ECUs 펳 A (Usage) Use htis function in the following situation - Certification ECU has replaced <[Introduction) This function regidters the communication ID be < Back Next > Cancel \Rightarrow

			Fig. 7-1
Tehstream (Ver 7,3 File Function Setup 1	0,025)- 11345 ПВ User Неф		
System Select Bored SCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Viting Selection Manu State daries Utility Selection Manu State daries Utility and have press Note turbon (Common Hatroy Costormer Color Common Descent Descention Smart Code Reset Smart Code Reset (State) Smart Code Reset (State) (State) (State) (State) (State) (State) (State) (State) (Introduction Edition Edition Edition (Introduction (Description Edition (Introduction (Interdection (Introduction (Interdection (Interdection	ECU Communication ID Registration(SMRT-17-008) Heter Communication ID registration for Remote Engine Starter is complete Exit	

()	025) - 11345						
File Exection Setup	TIS User Help						
System Select Stored	Data						
XXXC-XXXX	System Selection Men	u					
	Select desired system and then pr	ress the arrow button to access t	the ECU				
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	System Yellow=ECU stat.	us unknown					
	System White=ECU comr	munication OK					
	*System White wiAsterisk?	=ECU not supported or not respo	nding				
Health Check							
Customize	All ECUS Powertrain	Chassis Body Elec	Air sussessies	ADEA/EC/TDAC	Four Wheel Drive	Tim Descence Meniter	CHURS C
Setting	VCPS	Lane Departure Alent	nps	Air Conditioner	SDS Airban	Main Body	Galeway
ECU	Accessory Gateway	D-Door Motor	P-Door Motor	RL-Door Motor	RR-Door Motor	Driver Seat	Master Switch
Reprogramming	Sliding Roof	Tilt&Telescopic	Combination Meter		ror R	Intutive P/A	HL AutoLeveling
CAN	Smart Access	Power Source Control	Occupsnt Detection	Remote Engine Starter	S rting Control	Navigation System	Blind Spot Monitor Master
Bus Check	Blind Spot Monetor Slave	Telematics					
	This ECU controls the engin	ne start from outside of car					
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	This ECU controls the engi	ne start from outside of car					

TVIP V4 REMOTE ENGINE STARTER (RES)

- q. Select "Remote Engine Starter."
- r. Click "Next>."

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CONFIRM: That the ECU Communication ID was completed successfully.

s. Click "Exit."

- t. Click on "System Select" tab.
- u. Select "Remote Engine Starter."



TVIP V4 REMOTE ENGINE STARTER (RES)

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w. Click on "Utility."



x. Select "Remote Engine Starter Initial Registration."

Tehstream (Ver 7,30	025)- 11345	
System Select Stored E	ata Remote Engine Starter Live	
000-000	Utility Selection Menu Select desired UBix and Sen renes Next before	
XXX0000X km XXX0000XXX0000XXX00X	Remote Engine Starter Initial Registration	&
Trouble Codes		
Data List		
Active Test		
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UiRy		
COSI Della LINI		
	(Ubage) To execute initial registration of the Remote Enco	<u></u>
	(Introduction) Registers vehicle internation with the Remote En	
		v



y. Click "Next>."

Fig. 7-16 Tehstream (Ver 7,30,025)- 11345 Setup TIS Utility Selection Menu mote Engine Starter Initial Registration(RES-03-002) Select des ed Utility and then press Next bu F Perform the following operation 1. Close the engine hood When registration is complete, the screen will automatically change Registering ₹ Time Remaining 24 sec (Usage) To execute initial registration ▼ < Back Next > Exit \Rightarrow

			Fig. 7-17
Tehstream (Ver 7,3 File Function Setup 1 System Select Stored	0.025)- 11345 TIS User Help Data Remote Engine Starter Live		
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Utility Selection Menu Selecteweat UKIs and Peor pres Next better Renease Grayer Starter bind Progestation Compared Starter bind Progestation Starter Starter bind Progestation of the Contraction	Remote Engine Starter Initial Registration(RES-03-003) Help. Remote Engine Starter Initial Registration is complete	
Print Close		Exit	

Tehstream (Ver 7,30)	.025)- 11345		
File Function Setup TI	S User Help		
Byelen Selek 2003 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Consider Engine Stater Live Utility Selection Menu Seciod General Utility and Papers Next button Consider Stater Lives Terry state of the Consider Stater Lives Terry states Consider Stater Lives Consider Lives Consider Stater Lives Consider Stater Lives C	Remote Engine Starter Initial Registration(RES-03-002) Perform the following operation 1 Close the engine hood Error Remote Engine Starter Initial Registration has failed Do you want to try again? Yes No	

aa. Click "Exit."

z. Close the Hood within 30 seconds.

REMOTE ENGINE STARTER (RES)

TVIP V4

- **IF THIS PROCEDURE FAILED**
 - · Click "Yes."
 - Start again from step y.

2016-

PROCEDURE

ab. Press the "ENGINE START

the ignition off.

STOP" Button once to switch





8. Tags and Labels.

- For US Vehicles use the English Tags and Labels, and discard the Spanish Tags and Labels.
- For Mexico Vehicles use the Spanish Tags and Labels, and discard the English Tags and Labels.
- a. Attach the Key Tag.



REPEAT: Step a with the other Smart Key.



- b. Using VDC approved cleaner and Cleaning Method, clean the area indicated on the Engine Compartment.
- c. Attach the Warning Label to the Engine Compartment Cover as shown.



CAUTION: Do not touch the adhesive surface.

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PROCEDURE

TVIP V4 REMOTE ENGINE STARTER (RES)



- d. Use Household Glass Cleaner to clean the inside of the Front Door Window.
- e. Use a piece of Clear Tape to lift the Label off its protective backing.
- **CAUTION:** Do not touch the adhesive surface.
 - f. Attach the Label as shown.
- **NOTE:** Make sure to Align the Label according to Etching or Other Label.

REPEAT: steps d-f with the other Front Door Window.

9. Complete the Installation.

- a. Position the Negative Battery Cable at the original factory position.
- Torque: 5.4 N•m (48 in•lbf)
- **CAUTION:** Do not touch the Positive Terminal.
 - b. Clean up and Remove trash.
 - c. Sealed in its protective bag, place the Owner's Manual in the Glove Box.

Accessory Function Checks

Close the hood, enter the vehicle and close all doors. Place the shift lever in the "P" (Park) position, set the parking brake and make sure the Vehicle is off.

	Perform	Look For
1	Press the remote control's lock button twice within 2 seconds, then press and hold the lock button for 3 seconds.	The hazard lights flash after 3 seconds. The engine starts. The hazard lights flash repeatedly for 10 seconds.
2	With the engine running, pull the hood release handle. NOTE : <i>Wait 30 seconds before pulling the hood release handle for the Security Alarm to trigger.</i>	The engine stops. The hazard lights flash once. The security alarm triggers.

Vehicle Appearance Check

Perform	Look For
After accessory installation and removal of protective cover(s), perform a visual inspection of the vehicle.	Ensure no damage (including scuffs and scratches) was caused during the installation process. (For PPO installations, refer to TMS Accessory Quality- Shipping Standard.)

CHECKLIST – these points **MUST** be checked to ensure a quality installation.

Vehicle Function Checks

		Function			Function		
		Dome/Courtesy Lights			Illuminated Door Sill		
Sta	Start the Vehicle						
		Panel/Switch Illumination			Gauges		
		Check Engine Light If the warning light remains on, it may indicate a system malfunction.	ICHECK		ABS Light (if equipped) If the warning light remains on, it may indicate a system malfunction.	(ABS)	
		Lamp Failure Sensor If the warning light remains on, it may indicate a system malfunction.	Ì		Track/Skid Control Light (if equipped) If the warning light remains on, it may indicate a system malfunction.	λD	
		Seat Belt Warning Light If the warning light remains on, it may indicate a system malfunction.			Tire Pressure Monitoring System (TPMS)	()	
		Air Bag Warning Light If the warning light remains on, it may indicate a system malfunction.			(PDS) of the Vehicle the TPMS light will blink when IG is turned on.		
		Cruise Control Light (if equipped)	CRUISE		TPMS light will illuminate for a few seconds and go off when IG is turned on.		

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Using a Mirror or Assistant check the following.

	Trunk/Tailgate/Bed Lights (if equipped)	Tail Lights
	Brake Lights	Daytime Running Lights (if equipped)
	Backup Lights	Marker Lights
	Clearance Sonar (if equipped)	Turn Signal Lights

Stop the Engine, Place the Vehicle's IG in the ON position.

	Hazard Lights	Fog Lights (if equipped)
	Head Light	Accessory Controls/Illumination (if equipped)
	High Beams	Convenience Memory Settings (if equipped)
	Power Side Mirrors (if equipped)	Rear Sunshade (if equipped)
	Power Sliding Door (if equipped)	Power Back Door/Hatch (if equipped)

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TVIP V4 REMOTE ENGINE STARTER (RES)

CHECKLIST – these points **MUST** be checked to ensure a quality installation.

	Function		Function
	Front Wiper/Washer		Rear Wiper/Washer (if equipped)
	Power Sun/Moon Roof (if equipped)		Rollover Side Curtain Air Bag Switch (RSCA) (if equipped)
	Clock (if equipped)		Navigation System (if equipped)
	Audio/Video (if equipped)		USB Connections (if equipped)
	Steering Wheel Audio Control (if equipped)		HVAC
	Front Windshield Defogger (if equipped)		Rear Window Defogger (if equipped)
	Side Mirror Defogger (if equipped)		Accessory Power Socket (if equipped)
	Horn		Heated/Vented Seats (if equipped)
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	Glove Box Light (if equipped)	Trunk or Back Door/Hatch Cancel Switch (if equipped)
	Passenger Side Foot Lamp	
	Power Seats (if equipped)	Key Sensor Buzzer

