LEXUS IS 250/350 PREPARATION

2014– TVIP V4 REMOTE ENGINE STARTER (RES)

Part #: PT398-53141

Conflicts:

Do not install into Vehicles with Navigation System.

Will not program with Techstream Lite.

Kit Contents



Recommended Tools

Personal & Vehicle Protection	Description
Safety Classes	
Salety Glasses	
Safety Gloves	(Optional)
Vehicle Protection	Blankets, Parts Boxes
Special Tools	
Techstream	Use latest version on TIS (Do not use Techstream Lite)
Installation Tools	
Screwdriver	#2 Phillips
Nylon Panel Removal Tool	e.g. Panel Pry Tool #1 Toyota SST# 00002-06001-01
Utility Knife	
Side Cutters	
Pliers	45° Angled Needle Nose
Torque Wrench	Battery: 48 in•lbf (5.4 N•m),
	Passenger's Knee Airbag: 88.5 in•lbf (10 N•m)
Таре	Clear, Electrical
Socket	10mm, Extension
Special Chemicals	
Cleaner	VDC Approved Cleaner
Glass Cleaner	Household Glass Cleaner

Additional Items

(may be required)

ltem#	Description

Recommended Sequence of Application

ltem#	Description
1	Remote Engine Starter (RES)
2	Glass Breakage Sensor (GBS)

Table of Contents

PREPARATION

I.	Preparation	
	1. Table of Contents	2
	2. Wire Routing Overview	3-4
١١.	Procedure	
	1. Vehicle Disassembly	5
	2. RES ECU Preparation and Installation.	
	3. V4 Harness Installation.	
	4. Vehicle Reassembly	23
	5. Registration	24
	6. Complete the Installation.	
	7. Tag and Labels	
111.	. Checklist	
	1. Accessory Function Checks	
	2. Vehicle Appearance Check	
	3. Vehicle Function Checks	

Accessory Installation Practice (read before installation)

Legend

Do not proceed until process has been completed.	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 guality installation.
Follow steps carefully to avoid damaging the Vehicle or Accessory	These guidelines can be found in the "Accessory Installation Practices" document.
 Use caution to avoid injury. Used in Figures to call attention to specific tools recommended for the process. Highlights a change in installation with respect to 	 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.)
previous issue. Indicates that torque is related to safety.	Please see your LEXUS dealer for a copy of this document.
Video available; click to play.	
Issue B: 05/22/13	Page 2 of 34

Lexus IS 250/350 RES with G/W ECU	TVIP	Vehicle	Description	PRI LE
Wire Harness Outline*	А		8P White	EPAH BPAH
	В	_	8P White	
	Е	_	24P White	IOZ
	W	_	White Tape Marker	I S
	Ζ	_	RES ECU	250
				35
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				N
				†
				REI
				TE
				EZ
				G
				E
				STA
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				TV TV
				R P
*Color of Harness on Overview corresponds with Colored Tape near Connectors on Harness.				ES)



TVIP V4

LEXUS IS 250/350 PROCEDURE

2014–

TVIP V4 REMOTE ENGINE STARTER (RES)

Disassembly Overview	1
(8)	2
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	6
	7
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1	PS Step Cover
2	PS Cowl Cover
3	PS Dash Cover
4	PS Under Cover
5	Center Console PS Panel #1
6	Center Console PS Panel #2
7	PS Knee Airbag
8	Glove Box
Disco Conr Knee	onnect all Corresponding nectors, except for the PS e Airbag Connector.

1. Vehicle Disassembly.

- a. Place the Vehicle in Park with the Parking Brake set.
- b. Disconnect the Negative Battery Terminal.
 - Note the Battery Cable Position as it will be re-installed in the same position.

• CAUTION: Do not touch the Positive Terminal.

Issue B: 05/22/13

c. Remove the Passenger Side Step Cover.

d. Remove the Passenger Side Cowl Cover.

e. Remove the Passenger Side Dash Cover.

f. Dislodge the Passenger Side Under Cover.

- g. Disconnect the Foot Lamp Connector.
- h. Remove the Under Cover.

i. Remove the Center Console Passenger Side Panel #1.

j. Remove the Center Console Passenger Side Panel #2.

k. Dislodge the Passenger Side Knee Airbag carefully.Remove 3 Bolts.



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

I. Wrap the Airbag in a Blanket or the like and place it on top of the TVIP box.



CAUTION: Prevent stress on the Airbag Harness.

m. Remove 2 Screws from the bottom of the Glove Box.

n. Open the Glove Box and remove 3 Screws.

o. Dislodge the Glove Box.

- p. Disconnect the Vehicle Connectors.
- q. Pinch the Vehicle Harness Clamp to remove from the Glove Box.
- r. Remove the Glove Box.

2. RES ECU Preparation and Installation.

- a. Attach the RES ECU Bracket to the RES ECU.
- Fig. 2-1



b. Apply the Protection Sheet to cover the edges of the RES ECU Bracket.

c. Cut the Foam Tape in half.



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- e. Attach 1 Foam Tape to the RES ECU.
- f. Attach 1/2 Foam Tape to cover the edge of the RES ECU Bracket.

g. Attach 1 Foam Tape to the RES ECU.

NOTE: Make sure not to cover the Part Number on the label.

I

h. Position the RES ECU as shown.

i. Install the RES ECU using the supplied Washer and Nut.



NOTE: Make sure the Guide Pins are seated correctly and verify that the Nut is tightened securely.

Check if Gateway (G/W) ECU is present on the Vehicle.



3. V4 Harness Installation.

a. Connect the V4 White 24P Connector to the RES ECU.

b. Secure the V4 Harness White Tape Marker to the Vehicle Harness using 1 Wire Tie.

c. Route the V4 Harness in between the HVAC bracket and I/P Reinforcement.

d. Secure the V4 Harness to the Vehicle Brace using 1 Wire Tie.

e. Secure the V4 Harness to the I/P Reinforcement with 2 Wire Ties.



NOTE: For vehicles without G/W ECU, skip to step r (page 18).

V4 Only with G/W ECU



f. Remove the Tape securing the Vehicle 8P Pre-connector.

V4 Only with G/W ECU

- g. Route the V4 Harness behind the Vehicle Harness.
- h. Connect the V4 White 8P Connector to the Vehicle 8P Pre-Connector.

NOTE: Place the 8P Connectors in reference to the illustration.

- Secure the V4 Harness with the Vehicle 8P Pre-Connector to the Vehicle Harness using 1 Wire Tie.
 - Rotate the ratchet end of the Wire Tie toward center of the vehicle.
- j. Secure the V4 8P Connector to the Vehicle Harness using 1 Wire Tie.
 - Rotate the ratchet end of the Wire Ties toward center of the vehicle.
- k. Secure the V4 Harness to the Vehicle's I/P Reinforcement with 1 Wire Tie.



NOTE: Skip to Section 4 for Vehicle Reassembly (page 23).

V4/V2 Add-on with G/W ECU

I. Disconnect the V2 White 8P Connector from the Vehicle's 8P Pre-Connector.

m. Route the V4 Harness behind the Vehicle Harness.

- n. Connect the V4 White 8P Connector to the Vehicle 8P Pre-Connector.
- Connect the V4 White 8P Connector to the V2 White 8P Connector.

V4 Only without G/W ECU

s. Route the V4 Harness behind the Vehicle Harness.

t. Connect the V4 White 8P Connector to the Vehicle 8P Pre-Connector.



NOTE: Place the 8P Connectors in reference to the illustration.

- Secure the V4 Harness with the Vehicle 8P Pre-Connector to the Vehicle Harness using 1 Wire Tie.
 - Rotate the ratchet end of the Wire Tie toward center of the vehicle.
- v. Secure the V4 8P Connector to the Vehicle Harness using 1 Wire Tie.
 - Rotate the ratchet end of the Wire Tie toward center of the vehicle.

Issue B: 05/22/13

V4 Only without G/W ECU

 w. Secure the V4 Harness to the I/P Reinforcement with 1 Wire Tie.

Skip to step ad (page 22).

V4/V2 Add-on without G/W ECU

x. Disconnect the V2 White 8P Connector from the Vehicle 8P Pre-Connector.

y. Route the V4 Harness behind the Vehicle Harness.

V4/V2 Add-on without G/W ECU

z. Connect the V4 White 8P Connector to the Vehicle 8P Pre-Connector.

aa. Connect the V4 White 8P Connector to the V2 White 8P Connector.



NOTE: Place the 8P Connector in reference to the illustration.

- ab. Secure the V4 Harness 8P Connectors to the Vehicle Harness using 1 Wire Tie.
 - Rotate the ratchet end of the Wire Tie toward center of the vehicle.

Issue B: 05/22/13

V2/V4 Add-on without G/W ECU

ac. Secure the V4 Harness to the I/P Reinforcement with 1 Wire Tie.

Without G/W ECU

ad. Secure the V4 8P Connectors to the Vehicle Harness using 1 Wire Tie.

(For V4/V2 add-on will be Wire Tie #7 instead #8)

> • Rotate the ratchet end of the Wire Tie toward center of the vehicle.

ae. Connect the V4 White 16P Connector to the Vehicle's 16P Pre-Connector.

Without G/W ECU af. Secure the V4 Harness to the Vehicle Harness using 1 Wire Tie. (For V4/V2 add-on will be Wire Tie #8 instead #9) • Rotate the ratchet end of the Wire Tie toward center of vehicle. ag. Secure the 16P Connectors to the Vehicle Harness using 1 Wire Tie. (For V4/V2 add-on will be Wire Tie #9 instead #10) 4. Vehicle Reassembly. 10mm Socket, Extension, Torque Wrench, Phillips Screwdriver Fig. 4-1 a. Reassemble the Vehicle. <u>(</u>\$/ NOTE: When reinstalling Knee Airbag, make sure to tighten the Bolts to 88.5 in-lbf (10 N-m). VERIFY: That panels fit together properly, with no uneven gaps. VERIFY: That all Connectors are

 Airbag, mail Boits to 88.
 VERIFY: Tr properly, wi
 VERIFY: Tr plugged in.

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c. Verify that the 30 Amp D/C Cut fuse is installed.

• If not, install now.



d. Open the Driver's Side Door.

CAUTION: Leave the Door open until the registration is completed.

e. With the Smart Key in your possession, press the "Engine Start Stop" Button twice to select the Ignition "ON" position.

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- **CAUTION:** Techstream Lite will not work for this section, use the Techstream Notebook ONLY.
 - f. Connect the Techstream Notebook to the Vehicle's Diagnostic Port.

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

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

.

- I. Select "Smart Access."
- m. Click

Column Logical Boginaria Boginari Boginaria Boginaria Boginaria Boginaria Boginaria	Health Check	Select desired system and then System Yellow=ECU sta System White=ECU con "System White wiAsterisi	oress the arrow button to access tus unknown imunication OK i=ECU not supported or not respi	the ECU				
Exception Encycle and ECT Chara Control Alr supportion All Supportion From Visual Control Ter Presente Monitor EMP Reg / Provide and Provide	\equiv	All ECUs Powertrain	Chassis Body Ele	ctrical				
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Regission of the set of the	<u> </u>	VGRS	Lane Departure Alent	DRS	Air Conditioner	SRS Airbag	Main Body	Gateway
Annual Annual Annual Control Cont	ECU	Accessory Gateway	D-Door Motor	P-Door Motor	RL-Door Motor	RR-Door Motor	Driver Seat	Master Switch
CAN Notes we source Lotting Uccapite Detection Rende Englie Starfer Starferg Control Navigation System Bird Spat Navigation System Control Locapite Detection Rende Englie Starfer Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starfer Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starfer Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starferg Control Navigation System Bird Spat Person System Control Locapite Detection Rende Englie Starferg Control Navigation System Control Locapite Detection Rende Englis Starferg Control Navigation System Control Locapite Detection Rende Englis Starferg Control Navigation System Control Locapite Detection Starferg Control Navigation System Control N	The programming	Cliding Doof	Tilt&Telescopic	Combination Meter	Mirror L	Mirror R	Intutive P/A	HL AutoLeveling
	CAN But Chark	Smart Access	Power Source Control	Occupsnt Detection	Remote Engine Starter	Starting Control	Navigation System	Blind Spot Monitor Master
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<caption>

Specific description

n.	Click or	n "Utility."
		i Ounty.

Tehstream (Ver 7,30,02 File Function Setup TIS System Select Stored Data	5)-11345 User Help		
File Function Setup TIS System Select Stored Data	User Help		
System Select Stored Data			
XXXX XXXXXXXXX	Smart Access Live		
	Jtility Selection Menu		
	elect desired Lifety and then press Next button		
XXXXXXX km			
X00000000000000000	Operation History	Wireless Door Lock Diagnosis Mode	_
	ECI I Communication ID Revietration	ommumication Check(Key Diag Mode)	
Trouble Codes	CO Communication to registration	mart Code Begistration	
	Smart Code Reset		
Data List			
Active Test			
Modifay			
Uliky			
Dual Data List			
			V
	[
	(Usage) Use btis function in the following situation		
	- Certification ECU has replaced		
	(Participation)		
	This function regidters the communication ID between the ID Cide Box FCI and Certifica	tion EGI	
			H
TIS Keyword	L		Ľ

o. Select "ECU Communication ID Registration."



q. Click "Next>"

		Fig. 5-1
Tehstream (Ver 7.30.025)- 11345 File Function Setup TIS User Help		- @ ×
Uppertension Description XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	ECU Communication ID Registration(SMRT-17-001) Help Welcome to ECU Communication ID Regidtration 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 Ltation Ltation Ltation Next > Cancel	

Tehstream (Ver 7,3)	30,025)- 11345		
File Function Setup	TIS User Help		
System Select Stored	Data Smart Access Live		
XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Utility Selection Menu Select desired Utility and then press Next button	ECU Communication ID Registration(SMRT-17-002)	
XXXXXX km XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Operation History	Help	
Trouble Codes	Customize ECU Communication ID Registration Smart Code Registration(Classic)	ID Code Box and Steering Lock	1
Data List	Smart Code Reset	Remote Engine Starter	
Active Test			
Usity			
Dual Data List			
		Make a selection and press Next to	v
	(Usage) Use htis function in the following situation - Certification EDU has replaced		A
	(Introduction)		

			Fig. 5-1
Tehstream (Ver 7,3 File Function Setup System Select Stored	30.025)-11345 TIS User Help Dala Smart Access Live		
Cose	Utility Selection Menu Seed device Utility and their press Next button Operation (History Castorize Device Code Respiratedors(Classic) Simulat Code Respiratedors(Classic) (Simulat (Simulat	ECU Communication ID Regulatation(SMRT-17-006) Help Communication ID registration for Remote Engine Starter is complete Exit	

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

- **CONFIRM:** That the ECU Communication ID was completed successfully.
- t. Click "Exit."

- Fig. 5-f3
- u. Select "Remote Engine Starter."
- v. Click 🔿

w. Click on "Utility."

	IS User Help							
vstem Select Stored D XXX XXXXXXXXXX	ata Smart Access	Live Remote Engine Starter Live	 	 				
XX-XXX	Diagnostic C	Description			Current	Donating	History	e
X0000X km	Nete	Describtion			Current	Fending	history	Summary
000000000000000000000000000000000000000	14016	1			1	-		
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File Function Setup	0,025)- 11345 TIS User Helo	
System Select Stored	Data Remote Engine Starter Live	
XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Utility Selection Menu Select devied Utility and then press Next button	
XXXXXXX km XXXXXXXXXXXXXXXXXXXXXXXXXXXXX	Remote Engine Starter Initial Registration	
Trouble Codes		
Data List		
Active Test		
Modifay		
Utity		
Dual Data List		
	(Usage) To execute initial registration of the Remote Foco	
	(Introduction)	
	Registers vehicle intermation with the Remote En	

x. Select "Remote Engine Starter Initial Registration."

y. Click "Next>"

		Fig. 5-1
Tehstream (Ver 7.30.025)- 11345 File Function Setup Tis User Help System Steck Stored Data Remote Engine Starter Live Wear Waterward		
XXX.XXX Utility Selection Menu Select desired Utility and then press Next button	Remote Engine Starter Initial Registration(RES-03-001)	
Toucha Code Ramoe Engree States Initial Registration Toucha Code	This function is used to execute initial registration the Remote Engine Starter Confirm the following conditions - The engine/power switch ON(Engine OFF/Ready OFF) - Engine hood is opened Note Close Engine hood within 30 seconds in the next screen Press Next to proceed	

			Fig. 5-17
Tehstream (Ver 7,3) File Function Setup T System Select Stored I	0,025)- 11345 TIS User Help Data Remote Engine Starter Live		
Organization Control C	Enclose Support State	Remote Engine Starter Initial Registration(RES-03-002) Pergorm the following operation 1 Close the engine hood When registration is complete, the screen will automatically change	
Usiliy Dual Data List	(Usage) To execute initial registration of th (Introduction) Berviter subjicit internation with th	Registering Time Remaining 24 sec	
TIS Keyword Print Close		< Back Next > Exit	

z. Close the Hood within 30 seconds.

O Tehstream (Net 7.30,025): 11345 File Findings State (Second Second S		Fig. 9-16
	Remote Engine Starter Initial Registration(RES-03-003) Help. Remote Engine Starter Initial Registration is complete	

aa. Click "Exit."

		Fig. 5-1
Tehstream (Ver 7,30,025)-11345 File Function Setup TIS User Help		- Ø X
System Select Stored Data Remote Engine Starter Live	Darrah Facilia Andra billel Darisharkar (PFA A2 000)	1
Could Engine State Initial Registration Totals Cole Out bill Artisp Test ModBy Usity Dar Doa tail (Usage) To Engine To Engine The Sequent This Report Tree	Heip Pergorm the following operation 1 Close the engine hood Error Remote Engine Starter Initial Registration has failed Do you want to try again? Yes No	



TVIP V4 REMOTE ENGINE STARTER (RES)

IF THIS PROCEDURE FAILED

Click "Yes."

2014-

• Start again from step y.

ab. Press the "ENGINE START STOP" Button once to switch the ignition off.

- 6. Complete the Installation.
 - a. Position the Negative Battery Cable at the original factory position.



 Tighten the Nut to 48 in•lbf (5.4 N•m)

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.



7. Tag and Labels.

- a. Using VDC approved cleaner and cleaning method, clean the area indicated in the Underside of the Hood.
- b. Attach the Engine Room Label as shown.
- **CAUTION:** Do not touch the adhesive surface.

c. Attach the Key Tag.

REPEAT: step c with the other Smart Key.





- 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 according to Etching or Other Label.

TOP

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

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. (Only if equipped with OE Factory Alarm, not Genuine Accessory alarm, and only if armed)

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.)

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2014-CHECKLIST – these points **MUST** be checked to ensure a quality installation.

Vehicle Function Checks

E	้นท	ctio	on
	un	CUIV	

		Function			Function	
Enter the Vehicle						
		Dome/Courtesy Lights			Horn	
Sta	art the V	/ehicle				
		Panel/Switch Illumination			Gauges	
		Check Engine Light If the warning light remains on, it may indicate a system malfunction.	HCHECK		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.			Track/Skid Control Light (if equipped) If the warning light remains on, it may indicate a system malfunction.	
		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)			TPMS light will illuminate for a few seconds and go off when IG is turned on.	

I

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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2014-

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

Power Seats (if equipped)

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)
	Massage Seats (if equipped)		Heated/Vented Seats (if equipped)

Glove Box Light (if equipped)	Trunk or Back Door/Hatch Cancel Switch (if equipped)
Passenger Side Foot Lamp	
Power Locks (if equipped)	Power Windows (if equipped)

Key Sensor Buzzer