L-SB-0183-09



# **HDD Navigaton Map Update Process**

Service Category	Audio/Visual/Telematics			Lexus Supports
Section	Navigation/Multi Info Display	Market	USA	Lexus Supports ASE Certification

#### Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2010	ES350, GS350, GS450H, GS460, GX460, HS250H, IS F, IS250, IS250C, IS350, IS350C, RX350, RX450H, SC430	
2007 – 2010	LS460	
2008 – 2010	LS600H, LX570	

### **TSIB SUPERSESSION NOTICE**

The information contained in this TSIB supersedes TSIB No. L-SB-0049-08.

- Applicability has been updated to include all 2010 model year Lexus vehicles.
- Parts Information table has been updated.
- Required Tools & Equipment table has been updated.

TSIB No. L-SB-0049-08 is Obsolete and any printed versions should be discarded. Be sure to review the entire content of this service bulletin before proceeding.

#### Introduction

Lexus models equipped with Hard Disk Drive (HDD) Navigation require a Special Service Tool and follow a unique process for updating map, points of interest, and system software. Instead of individual DVDs installed into the vehicle, all Map Data is uploaded directly to the HDD system.

Map Data will be released annually through the direct shipment of two Map Data DVDs to each dealership service manager. The annual Map Data release must then be installed onto the Navigation Update Tool. Individual map updates are then loaded into vehicles with special map security keys. These keys are available through the normal parts ordering system. Keys are loaded onto the Navigation Update Tool through a PC or TIS Techstream unit using software found on the Technical Information System (TIS).

Follow the procedures listed in this bulletin to:

### Introduction (Continued)

- Identify the current version of Map Data on the vehicle and on the Navigation Update Tool.
- Load Map Data onto the Navigation Update Tool.
- Load map security key(s) onto the Navigation Update Tool.
- Connect the Navigation Update Tool to the vehicle and update the Map/System Data to the latest version.

### NOTE

- In order to perform the procedures outlined in this TSIB, you MUST have completed the setup procedure in TSIB No. <u>L-SB-0180-09</u>, "HDD Navigation Program Setup".
- Before performing this procedure, disconnect all other USB peripheral and external storage devices (i.e., USB thumb drives, hard drives, cameras, mice, etc.).
- For additional details, refer to the <u>"Navigation Update Tool Operating Manual"</u> on TIS (under Diagnostic / Tools and Equipment / Navigation Update Tools tabs, "Reference Documents").

#### Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
N/A	Not Applicable to Warranty	_	_	-	-

### **Parts Information**

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY
PT219-HDDMP-08	PT219-HDDG5-09	Generation 5 HDD Map Key	1
N/A	PT219-HDDG6-09	Generation 6 HDD Map Key	1

### **Required Tools & Equipment**

REQUIRED EQUIPMENT	PART NUMBER	QTY
Generation 5 HDD Disc	00241-G5MAP-SSTDK	1
Generation 6 HDD Disc	00241-G6MAP-SSTDK	1

### NOTE

For additional Map Discs, order from the Materials Distribution Center (MDC) through Dealer Daily – Dealer Support Materials Orders.

### **Required Tools & Equipment (Continued)**

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
TIS Techstream*		TODKOA	
NOTE: Software version 4.21.002 or later is required.	ADE	TSPKG1	1

\* Essential SST.

NOTE

Additional TIS Techstream units may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

SPECIAL SERVICE TOOLS (SST'S)	PART NUMBER	QTY
Navigation Update Tool*	<u>95079-00002-KIT</u>	1

\* Essential SST.

#### NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

#### **Version Verification**

### Checking for Map Data Version on Navigation Update Tool

1. Open the Navigation Programs Installer.

#### Figure 1.

# NOTE

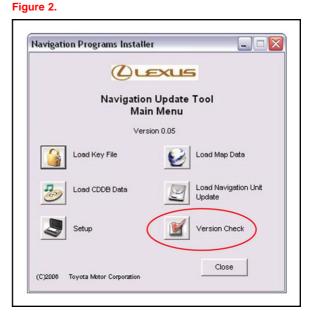
- When properly installed, the Navigation Programs Installer icon will be found on the TIS Techstream desktop.
- If the application is NOT properly installed, refer to TSIB No. <u>L-SB-0180-09</u>, *"HDD Navigation Program Setup"*.



#### **Version Verification**

### Checking for Map Data Version on Navigation Update Tool (Continued)

2. Click Version Check on the Navigation Update Tool Main Menu.

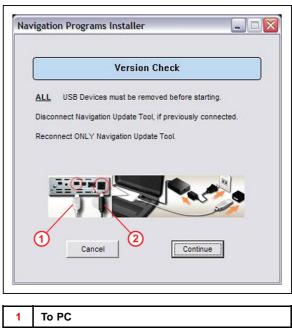


- 3. Connect the Navigation Update Tool.
  - A. Make sure the USB cable is secured in both the PC and the Navigation Update Tool USB ports.
  - B. Confirm that the Navigation Update Tool is powered correctly.
  - C. Turn power ON.
  - D. Press Continue.

#### Figure 3.

2

To A/C Power



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Figure 4.

# **HDD Navigaton Map Update Process**

#### **Version Verification**

#### Checking for Map Data Version on Navigation Update Tool (Continued)

4. Compare the CDDB version with the CDDB version shown on TIS.

#### NOTE

- If the Map version on the Navigation Update Tool is the same as shown on the DVD, then go to the *"Security Key Load"* section in this TSIB.
- If the Map version on the Navigation Update Tool is NOT the same as shown on the DVD, then go to the *"Tool Load"* section in this TSIB.

v	ersion Check	
v	ersion Check	
rrent versions of all Nav own below.	rigation Update Too	ol processes are
Seneration 5		
Map Version		06.05.14
Loaded keys		0
CDDB Version		469
Navigation Program	VN_L_US	3106
]	Continue	

#### Checking Map Data Version on Vehicle HDD Navigation System

#### NOTE

Prior to connecting to the vehicle you MUST disconnect the Navigation Update Tool from the PC.

1. Turn vehicle ignition ON (engine OFF).

3. Press the *MENU* button.

### **Version Verification**

Checking Map Data Version on Vehicle HDD Navigation System (Continued)

2. From the multi-information display, press *I Agree*.

Figure 5.



Figure 6.



4. From the multi-information display, press *HDD Data.* 

Figure 7.





### Version Verification

#### Checking Map Data Version on Vehicle HDD Navigation System (Continued)

5. Compare the Map Data version on the Navigation Figure 8. System to that on the Navigation Update Tool.

#### NOTE

- If the Map version on the Navigation System is the same as shown on the navigation update tool, then the vehicle does NOT need the update.
- If the Map version on the Navigation System is NOT the same as shown on the navigation update tool, then go to the "Tool Load" section in this TSIB.

🔄 HDD Data	Ð
Map data :ver.0	6.1
CDDB :ver.8	40 12/2005
Please contact a dealer update availability and p	
CDDB Update	
	Covered Area

#### **Tool Load**

### NOTE

There are three separate processes used to update the Map Data on the vehicle:

- Loading the Map Data onto the Navigation Update Tool
- Loading the Map Data security key onto the Navigation Update Tool
- Loading the Map Data into the vehicle HDD Navigation System

If the Map version on the Navigation Update Tool is the same as shown on TIS, then go to the "Security Key Load" section in this TSIB.

If the Map version on the Navigation Update Tool is NOT the same as shown on TIS, then follow the instructions below.

Loading Map Data onto Navigation Update Tool

### NOTE

Before performing this procedure, disconnect all other USB peripheral and external storage devices (i.e., USB thumb drives, hard drives, cameras, mice, etc.).

### **Tool Load**

### Loading Map Data onto Navigation Update Tool (Continued)

1. Open the Navigation Programs Installer.

### NOTE

- When properly installed, the Navigation Programs Installer icon will be found on the TIS Techstream desktop.
- If the application is NOT properly installed, refer to TSIB No. <u>L-SB-0180-09</u>, "HDD Navigation Program Setup".



2. Select Load Map Data on the Navigation Update Tool Main Menu.

#### Figure 10.

CLE	xus
	Update Tool Menu
Versio	n 0.05
Load Key File	Load Map Data
Load CDDB Data	Load Navigation Unit Update
Setup	Version Check
	Close

Figure 11.

# **HDD Navigaton Map Update Process**

### Tool Load

### Loading Map Data onto Navigation Update Tool (Continued)

- 3. Connect the Navigation Update Tool.
  - A. Make sure the USB cable is secured in both the PC and the Navigation Update Tool USB ports.
  - B. Confirm that the Navigation Update Tool is powered correctly.
  - C. Turn power ON.
  - D. Press Continue.



- 2 To A/C Power
- 4. Insert Map Disk 1 into the CD/DVD-ROM drive and press *Continue*.

#### Figure 12.

avigation P	rograms Installe		
	Load I	Map Data	
insert M	lep Disk 1 into DVD D	rive.	
j	Cancel	Continu	•

Figure 13.

# **HDD Navigaton Map Update Process**

#### **Tool Load**

### Loading Map Data onto Navigation Update Tool (Continued)

5. Allow Map Data to copy onto the PC hard drive (requires about 30 minutes).

#### If necessary:

- Insert the additional Map Disk as instructed into the CD/DVD-ROM drive.
- Allow the additional Map Data to copy onto the PC hard drive (requires about 30 minutes).

	Programs Installer	
	Load Map Data	
Map Data	is copying to the PC.	
Do not tur	n off PC or Navigation Update Tool.	
	Copying	
	10.3 MB of 3494.0 MB	
-	Please Wait	
	Transfer Rate - 3.00 MB/sec Time Remaining - 00: 19: 21	

6. Verify the correct version of Map data to load onto Figure 14. the Navigation Update Tool.

Load M	ap Data
Preparing to install Map Data onto	Navigation Update Tool.
The following Map Data will be loa	aded:
Generation No.	Map Version
05	06.05.14
Press Continue to	o Load Map Data
Cancel	Continue

Figure 15.

# **HDD Navigaton Map Update Process**

#### **Tool Load**

### Loading Map Data onto Navigation Update Tool (Continued)

7. Click Continue to load Map Data onto the Navigation Update Tool.

Map Data will then copy to the Navigation Update Tool (requires about 15 minutes).

	on Programs Installer 📃 🗖
	Load Map Data
Мар	Data is copying to the Navigation Update Tool.
Do n	ot turn off PC or Navigation Update Tool.
	Copying
	90.1 MB of 7522.0 MB
	Please Wait
	Transfer Rate - 12.00 MB/sec Time Remaining - 00: 10: 19

8. Verify the Map Data is loaded onto the Navigation Figure 16. Update Tool and can now be used to update the vehicle.

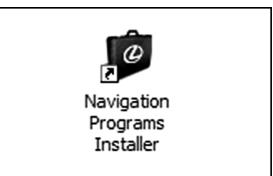
	Load Map Data
ap Data upload	ed to the Navigation Update Tool successfully.
e Navigation U	pdate Tool is ready to update vehicle.
ess Continue to	o return to Main Menu.
	Continue

### Security Key Load

#### NOTE

- In order to load the Map Data onto the vehicle's Navigation System, you MUST load a security key EACH time.
- The Navigation Update Tool will hold up to ten security keys. One key is required per vehicle update.
- Storing keys on the Navigation Update Tool is NOT recommended.
- Map Data MUST be loaded onto the Navigation Update Tool before a Key File can be loaded.
- Before performing this procedure, disconnect all other USB peripheral and external storage devices (i.e., USB thumb drives, hard drives, cameras, mice, etc.).
- 1. Open the Navigation Programs Installer.





2. Select Load Key File on the Navigation Update Tool Main Menu.

Figure 18.

	gation Programs Install	EXUS	5
	Navigatio Mai	n Update n Menu	Tool
	Vers	sion 0.05	
	Load Key File	2	Load Map Data
2	Load CDDB Data		Load Navigation Unit Update
4	Setup	¥	Version Check
(C)20	106 Toyota Motor Corporation		Close



### Security Key Load (Continued)

- 3. Connect the Navigation Update Tool.
  - A. Make sure the USB cable is secured in both the PC and the Navigation Update Tool USB ports.
  - B. Confirm that the Navigation Update Tool is powered correctly.
  - C. Turn power ON.
  - D. Press Continue.

#### Figure 19.

	Load Key File
LL	USB Devices must be removed before starting.
scon	nect Navigation Update Tool, if previously connected.
con	nect ONLY Navigation Update Tool.
1	

- 1
   To PC

   2
   To A/C Power
- 4. Connect USB Key File and press Continue.

#### Figure 20.



### Security Key Load (Continued)

5. Click Load to continue.

rigation Programs Installer	
Load Key F	ile
Generation	n 5
Navigation Update Tool can hold up to 10	0 Key Files per generation.
Loaded Key Files:	0
Available Key File Slots:	10
Press Load to install a Key File onto the	Navigation Update Tool.

6. Allow the Key File to copy onto the Navigation Update Tool (requires about 5 seconds).

#### Figure 22.

		Load Key File
Key File	is being loaded	to the Navigation Update Tool.
Do not t	urn off PC or Na	avigation Update Tool.
	WARNING -	Do not disconnect Navigation Update Tool from PC.
		Please Wait
	Require	ed time: Approx. 5 seconds



Figure 23.

# **HDD Navigaton Map Update Process**

#### Security Key Load (Continued)

7. Verify the Key File is loaded onto the Navigation Update Tool and can now be used to update the vehicle.

#### NOTE

- The Navigation Update Tool will hold up to ten security keys. One key is required per vehicle update.
- Storing keys on the Navigation Update Tool is NOT recommended.

Load Key File	
Generation	5
Key File uploaded to the Navigation Update	e Tool successfully.
Press Continue to return to the Main Menu.	
Loaded Key Files:	1
Available Key File Slots:	9
DISCONNECT MAP UPD Do not insert new key unti	
Continue	

### Vehicle Loading

Loading Map Data onto Vehicle HDD Navigation System

#### NOTE

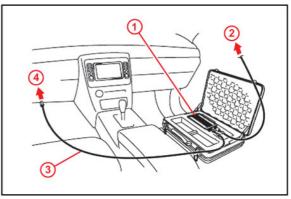
- The Map Data security key MUST be loaded onto the Navigation Update Tool before Map Data can be loaded to the vehicle.
- Prior to connecting to the vehicle you MUST disconnect the Navigation Update Tool from the PC.
- Connect the battery charger to the vehicle prior to beginning the process to ensure constant battery voltage.

### Vehicle Loading

### Loading Map Data onto Vehicle HDD Navigation System (Continued)

- 1. Connect the Navigation Update Tool to the vehicle.
  - A. Make sure the IEEE1394 cable is secured in both the Navigation Update Tool and the vehicle connector.
  - B. Confirm the Navigation Update Tool is powered correctly.

#### Figure 24.



1	Navigation Update Tool
2	To A/C Adaptor Power Supply
3	IEEE 1394 Vehicle Exchange Cable
4	To Vehicle-Side Connection Point

- 2. Turn vehicle ignition ON (engine OFF).
- 3. From the multi-information display, press *I Agree*.

#### Figure 25.



### **Vehicle Loading**

Loading Map Data onto Vehicle HDD Navigation System (Continued)

4. Press the "MENU" button.

Figure 26.



5. From the multi-information display, press *HDD Data*.





# 6. Press Map Data Update.





#### Vehicle Loading

Loading Map Data onto Vehicle HDD Navigation System (Continued)

7. Press I Agree.

9. Press OK.

#### Figure 29.



8. Allow Map Data to copy (requires about 25 minutes).

Figure 30.

<b>M</b>	ap Data Update	
Do r and	update process takes about 25 ot disconnect the Navigation U keep the vehicle in ACC mode o update process.	pdate Tool

#### Figure 31.



10. Disconnect the Navigation Update Tool from the vehicle.