



# Technical Journal

TITLE:  
**Software Download Guide**

<b>REF NO:</b> TJ 31543.4.3	<b>ISSUING DEPARTMENT:</b> Technical Service	<b>CAR MARKET:</b> United States and Canada	
<b>PARTNER:</b> 3 US 7510 Volvo Car USA		<b>ISSUE DATE:</b> 2017-02-24	<b>STATUS DATE:</b> 2017-02-24
<b>FUNC GROUP:</b> 3018	<b>FUNC DESC:</b> Software	<b>Page 1 of 16</b>	

“Right first time in Time”

## Attachment

File Name	File Size
P1_Customer_Settings.pdf	0.0143 MB
P2_Customer_Settings.pdf	0.0101 MB
P3_Non_Sensus_Customer_Settings.pdf	0.0178 MB
P3_Sensus_Customer_Settings.pdf	0.0173 MB
P5_SPA_SW_Guide.pdf	0.5105 MB

## Vehicle Type

Type	Eng	Eng Desc	Sales	Body	Gear	Steer	Model Year	Plant	Chassis range	Struc Week Range
124							2007-2016		-	0-0
134							2011-9999		-	0-0
136							2008-9999		-	0-0
137							2016-9999		-	0-0
138							2016-9999		-	0-0
155							2014-9999		-	0-0
156							2010-9999		-	0-0
157							2015-9999		-	0-0
234							2017-9999		-	0-0
256							2016-9999		-	0-0
275							2003-2014		-	0-0
533							2007-2013		-	0-0
542							2006-2013		-	0-0



## CSC Customer Symptom Codes

Code	Description
2V	Technician information/Software/Vehicle communication/Not for warranty use
3L	Technician information/Repair information/Not for warranty use

## VST Operation Number

VST Operation Number	Description
36004-2	Software control module downloading
98646-3	Configuration test acc. to TJ
98645-3	Preparation software complete upgrade acc to TJ

## DTC Diagnostic Trouble Codes

Rows beginning with \* are modified

Note! If using a printed copy of this Technical Journal, first check for the latest online version.

## Text

### DESCRIPTION:

This Journal is a guide for performing Software Downloads.

### SERVICE:

If visible in the VIDA Software Upgrades list, **Total Upgrade** should be performed at every workshop visit **during** the warranty period.

If visible in the VIDA Software Upgrades list, **Service 2.0 Upgrade** should be performed at every workshop visit **after** the warranty period.

**PDS Upgrade** should be performed at **Retail Car Customer Delivery**.

See attached guide for relevant P5/SPA Software Download information:

[P5\\_SPA\\_SW\\_Guide.pdf](#)

\*P5/SPA vehicles may lose the Door Module calibration for auto window up/down.

\*This will be corrected in an upcoming software.

\*To perform the calibration:

1. Gently raise the front section of the button to it's first step to raise the window to its end position and hold it there for one second.
2. Release the button briefly.
3. Raise the front section of the button again for one second.

See VIDA Software tab for all other vehicles.

The attached checklists can be used for restoring customer settings, where applicable.

Where necessary, please refer to CPI 19-2016 and SMB SMB 00-424 for warranty claiming information when handling repairs which require lengthy diagnostics and/or difficult software downloads.



**VEHICLE REPORT:**

n/a

**To view TJ attachment continue to next page. This TJ has five attachments.**

Main Menu

Radio mode

- 1 FM (or AM)
- 2 HD radio
- 3 Clock adjust
- 4 Climate settings
- 5 Car settings

When in other mode

- 1 Sirius or CD/AUX/USB/Phone
- 2 Clock adjust
- 3 Climate settings
- 4 Car settings

**IMPORTANT NOTE: Not all vehicles will have all of these features as some are optional!!**

An "X" in a box indicates "on/selected" a "blank" box indicate "off/not selected"

<b>AM Menu</b>	1 Audio Settings ▶	1 Equalizer front	60 200 1K 3K 12K
		2 Equalizer rear	61 200 1K 3K 12K
		3 Auto volume control ▶	1 Low <input type="checkbox"/>
			2 Medium <input type="checkbox"/>
		4 Reset all	3 High <input type="checkbox"/>
	<b>AM Preset stations</b>	Record customer AM radio station presets AM 1 Presets	
	1		
	2		
	3		
	4		
5			
6			
7			
8			
9			
0			
<b>FM menu</b>	1 Radio text <input type="checkbox"/>	1 Equalizer front	60 200 1K 3K 12K
	2 Audio settings ▶	2 Equalizer rear	61 200 1K 3K 12K
		3 Auto volume control ▶	1 Low <input type="checkbox"/>
			2 Medium <input type="checkbox"/>
		4 Reset all	3 High <input type="checkbox"/>
	<b>FM Preset stations</b>	Record customer FM radio station presets FM 1 Presets	FM 2 Presets
	1		1
	2		2
	3		3
	4		4
5		5	
6		6	
7		7	
8		8	
9		9	
0		0	

<p><b>CD Menu</b></p>	<p>1 Random <input type="checkbox"/>                  2 Disc text <input type="checkbox"/>                  3 Audio settings ▶</p>	<p>1 Equalizer front                  2 Equalizer rear                  3 Auto volume control ▶                   4 Reset all</p>	<p>60 200 1K 3K 12K                  61 200 1K 3K 12K                  1 Low <input type="checkbox"/>                  2 Medium <input type="checkbox"/>                  3 High <input type="checkbox"/></p>
<p><b>AUX Menu</b></p>	<p>1 Aux input volume ▶                  2 Audio settings ▶</p>	<p>Volume bar...                  1 Equalizer front                  2 Equalizer rear                  3 Auto volume control ▶                   4 Reset all</p>	<p>60 200 1K 3K 12K                  61 200 1K 3K 12K                  1 Low <input type="checkbox"/>                  2 Medium <input type="checkbox"/>                  3 High <input type="checkbox"/></p>
<p><b>USB Menu</b></p>	<p>1 Playlist ▶                  2 Random ▶                   3 Track Information ▶                  2 Audio settings ▶</p>	<p>1 Off <input type="checkbox"/>                  2 Folder <input type="checkbox"/>                  3 All <input type="checkbox"/>                   1 Equalizer front                  2 Equalizer rear                  3 Auto volume control ▶                   4 Reset all</p>	<p>60 200 1K 3K 12K                  61 200 1K 3K 12K                  1 Low <input type="checkbox"/>                  2 Medium <input type="checkbox"/>                  3 High <input type="checkbox"/></p>
<p><b>SIRIUS Menu</b></p>	<p>1 Add song to memory                  2 Direct channel                  3 Select Category                  4 Sirius Radio Text ▶                   5 Song seek <input type="checkbox"/>                  6 Advanced Sirius settings                   7 Audio settings</p>	<p>1 Program title <input type="checkbox"/>                  2 Artist <input type="checkbox"/>                  3 Composer <input type="checkbox"/>                  4 Off <input type="checkbox"/>                   1 Song memory                  2 Skip Options                  3 Lock Options                  4 Sirius ID                  1 Equalizer front                  2 Equalizer rear                  3 Auto volume control ▶                   4 Reset all</p>	<p>60 200 1K 3K 12K                  61 200 1K 3K 12K                  1 Low <input type="checkbox"/>                  2 Medium <input type="checkbox"/>                  3 High <input type="checkbox"/></p>
<p><b>Clock Adjust</b></p>	<p>Settings clock menu</p>		
<p><b>Climate settings</b></p>	<p>1 Auto fan adjust ▶                   2 Recirculation timer <input type="checkbox"/>                  3 Reset all</p>	<p>1 Low <input type="checkbox"/>                  2 Normal <input type="checkbox"/>                  3 High <input type="checkbox"/>   <input type="checkbox"/></p>	

<b>Car settings</b>	1 Light Settings ▶	1 Lock confirm light <input type="checkbox"/> 2 Unlock confirm light <input type="checkbox"/>	
		3 Approach light duration ▶	30 <input type="checkbox"/> 60 <input type="checkbox"/> 90 <input type="checkbox"/>
		4 Home Safe light duration ▶	30 <input type="checkbox"/> 60 <input type="checkbox"/> 90 <input type="checkbox"/>
	2 Lock Settings ▶	1 Doors auto lock <input type="checkbox"/> 2 Doors unlock ▶	1 All doors <input type="checkbox"/> 2 Driver door, then all <input type="checkbox"/>
	Keyless entry ▶	1 All doors <input type="checkbox"/> 2 Doors on same side <input type="checkbox"/> 3 Both front doors <input type="checkbox"/> 4 Either front door <input type="checkbox"/>	
	3 Auto open all windows <input type="checkbox"/> Mirror fold on locking <input type="checkbox"/> (BLIS only)		

**Example of P1 block offsets**

The following settings are accomplished with VIDA/Vehicle communication/Node XXX/advanced

<b>CEM</b>	<b>Value</b>
Programming of global opening of windows (market dependent)	
Programming of rear window wiper when reversing	
Setting clock deviation	
<b>DIM</b>	
Unit for temperature	
Trip computer unit	
12 or 24 hour display on the clock	
Parking brake warning On/Off	
Audible acknowledgement signal, seat belt reminder On/Off.	
Programming seatbelt reminder in backseat	
Programming of triggering conditions for audible signal, seatbelt reminder	
Instrument lighting at unlocking Activated/Not activated	
<b>CCM</b>	
Programming the seat temperature	
<b>PSL</b>	
Seat memory on/off	

## P2 - S80 (1999 - 2006), S60 (2001 - 2009) V70, XC70 (2001 - 2007)

### AM Preset stations

Record customer AM radio station presets

#### AM 1 Presets

1	
2	
3	
4	
5	
6	
7	
8	
9	
0	

### FM Preset stations

Record customer FM radio station presets

#### FM 1 Presets

1	
2	
3	
4	
5	
6	
7	
8	
9	
0	

#### FM 2 Presets

1	
2	
3	
4	
5	
6	
7	
8	
9	
0	

### P2 block offsets

The following settings are accomplished with VIDA/Vehicle communication/Node XXX/advanced

CEM	Value
1. Home safe light	
2. Daytime running lamps	
3. Tailgate wiper (5 door models)	
4. Time delay, locking the fuel tank filler cover	
5. Warning for low beam position (Bi-Xenon).	
6. Programming of 3 flash sequence	
UEM	
1. Length of time for courtesy lighting	
2. Amount of dimmer for inner rear-view mirror.	
DDM	
Programming the remote control setting (seat memory off/on)	
CCM	
Afterblow	
Floor and defroster air distribution, residual heat.	
Setting seat heater temp.	
PSM	
seat and mirror memory off/on	

**P3 - S80 (2007 - ) ~ V70, XC70 (2008 - ) ~ XC60 ( - 2010 wk46)**

**Main Menu:**

<p><b>In FM mode</b></p> <p>1 HD radio <input type="checkbox"/></p> <p>2 FM settings</p> <p>3 Audio settings ▶</p> <p>4 Car key memory ▶</p> <p>5 Car settings ▶</p> <p>6 Climate settings ▶</p>	<p><b>In Sirius Mode</b></p> <p>1 Add song to memory</p> <p>2 Direct channel entry</p> <p>3 Select category ▶</p> <p>4 SIRIUS radio text ▶</p> <p>5 Song seek <input type="checkbox"/></p> <p>6 Sirius settings ▶</p> <p>7 Audio settings ▶</p> <p>8 Car key memory ▶</p> <p>9 Car settings ▶</p> <p>10 Climate settings ▶</p>	<p><b>In AUX mode</b></p> <p>1 AUX input volume</p> <p>2 Audio settings ▶</p> <p>3 Car key memory ▶</p> <p>4 Car settings ▶</p> <p>5 Climate settings ▶</p>	<p><b>In USB mode</b></p> <p>1 Random ▶</p> <p>2 USB settings ▶</p> <p>3 Audio settings ▶</p> <p>4 Car key memory ▶</p> <p>5 Car settings ▶</p> <p>6 Climate settings ▶</p>
<p><b>In AM mode</b></p> <p>1 HD radio <input type="checkbox"/></p> <p>2 Audio settings ▶</p> <p>4 Car key memory ▶</p> <p>4 Car settings ▶</p> <p>5 Climate settings ▶</p>		<p><b>In CD mode</b></p> <p>1 Random <input type="checkbox"/></p> <p>2 CD settings ▶</p> <p>3 Audio settings ▶</p> <p>4 Car key memory ▶</p> <p>5 Car settings ▶</p> <p>6 Climate settings ▶</p>	

**IMPORTANT NOTE: Not all vehicles will have all of these features as some are optional!!**

An "X" in a box indicates "on/selected" a "blank" box indicate "off/not selected"

<b>AM Preset stations</b>	Record customer AM radio station presets AM 1 Presets		
	1		
	2		
	3		
	4		
	5		
	6		
	7		
	8		
	9		
	0		
<b>FM Preset stations</b>	Record customer FM radio station presets FM 1 Presets		FM 2 Presets
	1		1
	2		2
	3		3
	4		4
	5		5
	6		6
	7		7
	8		8
	9		9
	0		0
<b>FM settings ▶</b>	Radio text <input type="checkbox"/>		
<b>Audio settings ▶</b>	Sound stage ▶	Front seat <input type="checkbox"/>	
		Drivers seat <input type="checkbox"/>	
		Rear seat <input type="checkbox"/>	
	Equalizer front	61 200 1K 3K 12K	
	Equalizer rear	60 200 1K 3K 12K	
	Auto volume control ▶	Off <input type="checkbox"/>	
		Low <input type="checkbox"/>	
		Medium <input type="checkbox"/>	
		High <input type="checkbox"/>	
	Reset all audio settings		



Car settings ▶	Door mirror settings ▶	Fold mirror when locking <input type="checkbox"/>	
		Auto tilt left mirror <input type="checkbox"/>	
		Auto tilt right mirror <input type="checkbox"/>	
	Driver Alert On <input type="checkbox"/>		
	Collision Warning Settings ▶	Collision Warning On <input type="checkbox"/>	
		Warning Sound <input type="checkbox"/>	
		Warning Distance ▶	Long <input type="checkbox"/>
			Normal <input type="checkbox"/>
			Short <input type="checkbox"/>
	Light settings ▶	Lock confirmation light <input type="checkbox"/>	
		Unlock confirmation light <input type="checkbox"/>	
		Turn signal 3-flash <input type="checkbox"/>	
		Daytime running light <input type="checkbox"/>	
		Approach light duration ▶	Off <input type="checkbox"/>
			30 sec <input type="checkbox"/>
			60 sec <input type="checkbox"/>
			90 sec <input type="checkbox"/>
		Active bending light <input type="checkbox"/>	
		Home safe light duration ▶	30 sec <input type="checkbox"/>
			60 sec <input type="checkbox"/>
			90 sec <input type="checkbox"/>
Lock settings ▶	Doors automatic lock <input type="checkbox"/>		
	Doors unlock ▶	All doors <input type="checkbox"/>	
		Drivers door, then all <input type="checkbox"/>	
	Keyless entry	All doors unlock <input type="checkbox"/>	
		Door by door <input type="checkbox"/>	
		Doors on same side <input type="checkbox"/>	
		Both front doors <input type="checkbox"/>	
Lane Departure Warning ▶	On @ Start Up <input type="checkbox"/>		
	Increased sensitivity <input type="checkbox"/>		
Steering force level ▶	Low <input type="checkbox"/>		
	Medium <input type="checkbox"/>		
	High <input type="checkbox"/>		
Parking Camera Settings ▶	Parking assist lines <input type="checkbox"/>		
	Distance Bars <input type="checkbox"/>		
	System Activation ▶	Automatic <input type="checkbox"/>	
		Always On <input type="checkbox"/>	
		Off <input type="checkbox"/>	
5 Unit settings ▶	Temperature unit ▶	<input type="checkbox"/>	
		<input type="checkbox"/>	
	Time format ▶	12 hours <input type="checkbox"/>	
		24 hours <input type="checkbox"/>	
	Trip car unit ▶	US std (US default) <input type="checkbox"/>	
		UK std <input type="checkbox"/>	
		Metric system km/l <input type="checkbox"/>	
		Metric system 1/100 km <input type="checkbox"/>	
		(Canada default 1/100km)	
	Reset all units		

<b>Climate settings</b> ▶	Auto fan adjust ▶	Low <input type="checkbox"/>
		Normal <input type="checkbox"/>
		High <input type="checkbox"/>
	Recirculation time <input type="checkbox"/>	
	Auto rear defroster <input type="checkbox"/>	
	Seat heat time out <input type="checkbox"/>	
<b>Sirius radio text</b> ▶	Seat heat off @ start <input type="checkbox"/>	
	Reset climate settings	
	Program title <input type="checkbox"/>	
	Artist <input type="checkbox"/>	
	Composer <input type="checkbox"/>	
<b>Sirius settings</b> ▶	Off <input type="checkbox"/>	
	Song memory ▶	
	Skip options ▶	
	Lock option ▶	
<b>CD settings</b> ▶	Sirius ID	
	Track information <input type="checkbox"/>	

**Example of P3 (non-Sensus) block offsets**

The following settings are accomplished with VIDA/Vehicle communication/Node XXX/advanced

"block offsets"	Value (on/off)
Climate Control	
Seat heating.	
Seat ventilation.	
Time setting seat heating	

## P3 - Sensus Vehicles S60, XC60 (2010wk46 - )

"My Car" Menu:

My S60

- 1 DSTC
- 2 City Safety
- 3 Driver Alert
- 4 Collision Warning
- 5 Active Bending Lights

**IMPORTANT NOTE: Not all vehicles will have all of these features as some are optional!!**

An "X" in a box indicates "on/selected" a "blank" box indicate "off/not selected"

Settings ▶	Car settings ▶	Car Key Memory <input type="checkbox"/>	
	Lock Settings ▶	Auto Door Locking Doors Unlock ▶ <input type="checkbox"/>	All <input type="checkbox"/> Driver Door then All <input type="checkbox"/>
		Keyless ▶	All Doors Unlock <input type="checkbox"/> Any Door <input type="checkbox"/> Doors on Same Side <input type="checkbox"/> Both Front Doors <input type="checkbox"/>
	Side Mirror Settings ▶	Fold Mirrors (at Lock) <input type="checkbox"/> Tilt Left Mirror (Reverse) <input type="checkbox"/> Tilt Right Mirror (Reverse) <input type="checkbox"/>	
	Light Settings ▶	Door lock Confirm Light <input type="checkbox"/> Door Unlock Confirm Light <input type="checkbox"/>  Approach Light Duration  Homesafe Light Duration  Trip Indicator <input type="checkbox"/> Daytime Running Lights <input type="checkbox"/> Active Bending lights <input type="checkbox"/>	off <input type="checkbox"/> 30 Sec <input type="checkbox"/> 60 Sec <input type="checkbox"/> 90 Sec <input type="checkbox"/>  off <input type="checkbox"/> 30 Sec <input type="checkbox"/> 60 Sec <input type="checkbox"/> 90 Sec <input type="checkbox"/>
	Steering Wheel Force ▶	Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/>	



<b>FM Preset stations</b>	<i>Record customer FM radio station presets</i>		
		FM 1 Presets	FM 2 Presets
	1		1
	2		2
	3		3
	4		4
	5		5
	6		6
	7		7
	8		8
	9		9
0		0	

	Sound stage ▶  Equalizer front Equalizer rear  Volume Compensation ▶	Front seat <input type="checkbox"/> Drivers seat <input type="checkbox"/> Rear seat <input type="checkbox"/>  61 200 1K 3K 12K 60 200 1K 3K 12K  Off <input type="checkbox"/> Low <input type="checkbox"/> Medium <input type="checkbox"/> High <input type="checkbox"/>	
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<b>Climate Settings</b> ▶	Automatic Blower Adjustment  Recirculation Timer <input type="checkbox"/> Automatic Rear Defrost <input type="checkbox"/> Interior Air Quality System <input type="checkbox"/>	Normal <input type="checkbox"/> High <input type="checkbox"/> Low <input type="checkbox"/>	
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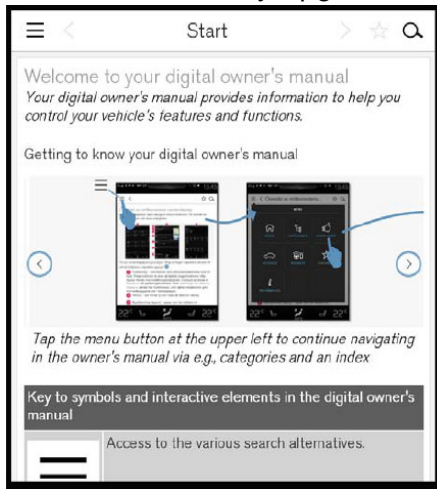
<b>Favorites</b> ▶	Radio ▶	AM Favorites ▶  FM Favorites ▶  Sirius Favorites ▶	No Function <input type="checkbox"/> Scan <input type="checkbox"/> Show Presets <input type="checkbox"/> Equalizer <input type="checkbox"/>  No Function <input type="checkbox"/> Scan <input type="checkbox"/> Show Presets <input type="checkbox"/> Equalizer <input type="checkbox"/>  No Function <input type="checkbox"/> Scan <input type="checkbox"/> Show <input type="checkbox"/> Add Songs <input type="checkbox"/> Song Seek <input type="checkbox"/> Equalizer <input type="checkbox"/>
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	<p>Media ▶</p>	<p>Audio CD Favorites ▶</p> <p>Data CD/DVD Favorites ▶</p> <p>Video DVD Favorites ▶</p> <p>iPod Favorites ▶</p> <p>USB Favorites ▶</p> <p>Bluetooth Favorites ▶</p> <p>Aux Favorites ▶</p>	<p>No Function <input type="checkbox"/></p> <p>Random <input type="checkbox"/></p> <p>Scan <input type="checkbox"/></p> <p>Equalizer <input type="checkbox"/></p> <p>No Function <input type="checkbox"/></p> <p>Random <input type="checkbox"/></p> <p>Repeat Folder <input type="checkbox"/></p> <p>Change Subtitle <input type="checkbox"/></p> <p>Change Audio Track <input type="checkbox"/></p> <p>Scan <input type="checkbox"/></p> <p>Equalizer <input type="checkbox"/></p> <p>No Function <input type="checkbox"/></p> <p>Play/Pause/Continue <input type="checkbox"/></p> <p>Subtitles <input type="checkbox"/></p> <p>Audio Tracks <input type="checkbox"/></p> <p>Equalizer <input type="checkbox"/></p> <p>No Function <input type="checkbox"/></p> <p>Random <input type="checkbox"/></p> <p>Scan <input type="checkbox"/></p> <p>Equalizer <input type="checkbox"/></p> <p>No Function <input type="checkbox"/></p> <p>Random <input type="checkbox"/></p> <p>Repeat Folder <input type="checkbox"/></p> <p>Change Subtitle <input type="checkbox"/></p> <p>Change Audio Track <input type="checkbox"/></p> <p>Scan <input type="checkbox"/></p> <p>Equalizer <input type="checkbox"/></p> <p>No Function <input type="checkbox"/></p> <p>Random <input type="checkbox"/></p> <p>Scan <input type="checkbox"/></p> <p>Equalizer <input type="checkbox"/></p> <p>No Function <input type="checkbox"/></p> <p>Equalizer <input type="checkbox"/></p>
	<p>Nav ▶</p>	<p>No Function <input type="checkbox"/></p> <p>Repeat Voice Guidance <input type="checkbox"/></p> <p>Pause/Resume Guidance <input type="checkbox"/></p> <p>Next Destination <input type="checkbox"/></p> <p>Current Position <input type="checkbox"/></p>	

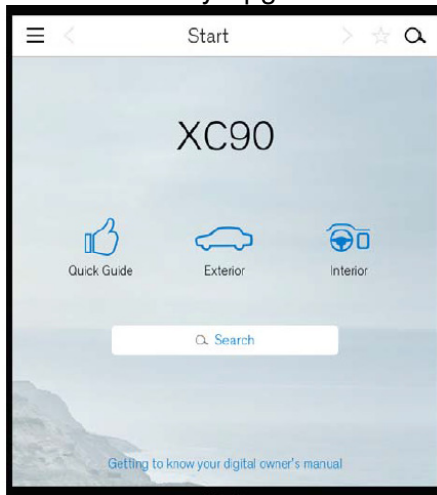
# SPA XC90 SW Guide



Digital Owner's manual  
Before Courtesy Upgrade:



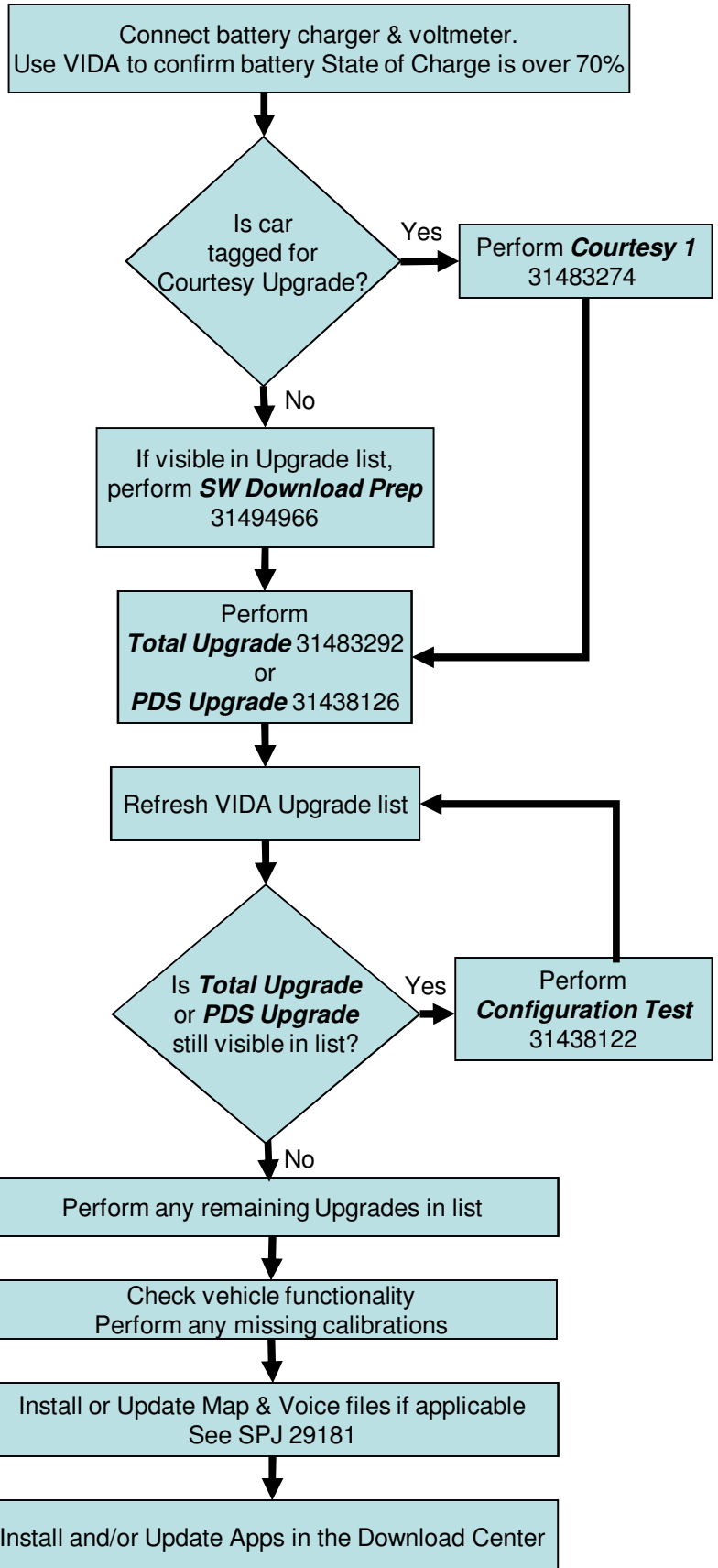
After Courtesy Upgrade:



These DTCs may be present after the Upgrade and can be ignored:

- IHU-U130B87 (LIN BUS #19)
- CEM-U133346, FMDM
- CCM-B10A854, HVAC LIN Bus

Some functions, such as the climate system, may not resume normal operation until the car has been locked for 15 minutes.





These DTCs may be present after the Upgrade and can be ignored:

- IHU-U130B87 (LIN BUS #19)
- CEM-U133346, FMDM
- CCM-B10A854, HVAC LIN Bus

Some functions, such as the climate system, may not resume normal operation until the car has been locked for 15 minutes.

## SPA S90 SW Guide

