ECU Upgrade





ECU Upgrade





The purpose of this function is to upgrade data on the ECU(electronic control unit) to improve the vehicle performance or correct a known issue.

There are two ways to upgrade the ECU as below:

- ♦ Auto Mode
- VENGA(YN)/2011/D 1.4 TCI. vci 📾 🚯 🔡 HOME Onlin ECU Upgrade 🚘 VENGA(YN) > 2011 > D 1.4 TCI-U2 **Manual Mode** Auto Mode Information CAUTION 1. DO NOT start the engine and DO NOT turn the ignition key to the OFF position during the ECU upgrade 2. Ensure that the battery is fully charged BEFORE beginning ECU upgrade. 3. Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade. 4. Review the applicable TSB/procedure before performing an ECU upgrade. 5. Make certain that the proper connector mentioned in the related TSB is used. 6. Ensure that any applicable components are replaced BEFORE performing the ECU upgrade 7. Confirm the new ROM ID after performing an ECU upgrade. Bo not disconnect the communication with vehicle during upgrading the ECU!! Do not touch any system buttons while performing this function.
- Manual Mode



Notice

- VCI II should be paired to the KDS tablet by USB cable or Wi-Fi Direct to perform ECU Upgrade on the KDS tablet.
- If the VCI II is not paired to the KDS tablet properly or if there is a problem with vehicle communication, "Auto Mode" and "Manual Mode" on ECU Upgrade screen are inactive.

ECU Upgrade – Auto Mode

"Auto mode" means upgrade is automatically performed based on the ROM ID that is read from the current control module. It automatically compares ROMID with the events and shows only the events that should be updated. Select each event, and upgrade automatically only for the selected events.

Caution

Before ECU upgrade, be sure to check "Information" below.





When VCI is not found, the pop-up message below appears.



Please wait for Wi-Fi Direct connection

HOME Online	VENGA(YN)	/2011/D 1.4 [·]	TCI	VCI 🙃	•	58
	ECU	Upgrade				₽
📾 VENGA(YN) > 2011	> D 1.4 TCI-	U2				
System						
	EPS				>	
ROM ID						
Currently in Vehicle				ID Che	ck	
Latest Update						
Event Group					TSB	
Prev	rious		Upgrade			
Informa	ition				_	≽
CAUTION						
 DO NOT start the eng during the ECU upgrade. Ensure that the batter Confirm the target vi ECU upgrade. Review the applicable Make certain that the 	ine and DO N y is fully charg chicle/system TSB/procedur proper connec	DT turn the ed BEFORE BEFORE pe e before per tor mention	ignition key t beginning EC rforming a n forming an E ed in the relat	o the OFf U upgrad nanual/er CU upgra ed TSB is	= positi e. ror mo de. used.	on de

Do not touch any system buttons while performing this function.

Step2

Select the system to perform ECU Upgrade.

Ì	Notice
=	

1

It displays only the system which ECU upgrade Event is supported on the selected vehicle.

HOME Online	VENGA(YN)/201	1/D 1.4 TCI	V	CI 🙃	Ð	38
	ECU Up	grade				₽
📾 VENGA(YN) > 20	011 > D 1.4 TCI-U2					
System						
	EPS				>	
ROM ID						
Currently in Vehicle Latest Update	98YN502MCWEH 9BYN502MCWEH	11A02 11A04		ID Che	ck	
• Event Group					TSB	
320.YN U2 1.4 HE	SITAITON IMPROVEN	MENT				
283.YN U2-1.4 EN	GINE COMBUSTION	NOISE IMPROVEM	IENT			
Р	revious	Upgrad	de			
Infor	mation					≽
CAUTION						
 DO NOT start the during the ECU upgra Ensure that the bat Confirm the targe ECU upgrade. Review the applica 	engine and DO NOT t de. tery is fully charged E t vehicle/system BEF ble TSB/procedure be	urn the ignition ke BEFORE beginning FORE performing efore performing a	ey to ti ECU u a mar n ECU	ne OFF opgrade oual/en upgrad	posit e. or mo de.	ion ode
5. Make certain that t	he proper connector r	mentioned in the re	elated	TSB is	used.	

Step3

When the user presses [ID Check] button, the application software searches ROM ID on the selected system.

HOME Online	VENGA(YN)/2011/D 1.4	TCI	vci 🏔 😽 🔀
	ECU Upgrade		₽
🚔 VENGA(YN) > 20	1 > D 1.4 TCI-U2		
System			
	EPS		>
ROM ID			
Currently in Vehicle	98YN502MCWEHIA02		ID Check
Latest Update	9BYN502MCWEHIA04		ib oncor
Event Group			TSB
320.YN U2 1.4 HES	ITAITON IMPROVEMENT		
283.YN U2-1.4 ENG	INE COMBUSTION NOISE	IMPROVEMEN	т
Pr	evious	Upgrade	
Inform	ation		*

Step4

2

Check "Currently in Vehicle ID" and "Latest Update ID" on "ROM ID" section.

Select the Upgrade Event on "Event Group" section and tap [Upgrade] button.

CAUTION

1. DO NOT start the engine and DO NOT turn the ignition key to the OFF position

during the ECU upgrade. 2. Ensure that the battery is fully charged BEFORE beginning ECU upgrade.

3. Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade. Review the applicable TSB/procedure before performing an ECU upgrade.

5. Make certain that the proper connector mentioned in the related TSB is used. Do not touch any system buttons while performing this function.

ñ	HOME Online VENGA(YN)/2011/D 1.4 TCL. VCI 🚓 😓 🔡
	ECU Upgrade 🧳
æ	VENGA(YN) > 2011 > D 1.4 TCI-U2
•	System
•	ROM ID
C/	urrentlv in Vehicle 98YN502MCWFHIA02
	Do not touch the system buttons (like 'Back', 'Home', 'etc.') while performing this function. It may damage ECU.
	ОК
7	Information ×
	CAUTION
1. du 2. 3. E0 4. 5.	DO NOT start the engine and DO NOT turn the ignition key to the OFF position ring the ECU upgrade. Ensure that the battery is fully charged BEFORE beginning ECU upgrade. Confirm the target vehicle/system BEFORE performing a manual/error mode U upgrade. Review the applicable TSB/procedure before performing an ECU upgrade. Make certain that the proper connector mentioned in the related TSB is used.
	Do not touch any system buttons while performing this function.

Step5

Please refer to the "Caution" and click the [OK] button.

Caution

Do not touch or interrupt the program while performing ECU Upgrade. P

HOME Online	VENGA(YN)/2011/D 1.4 TCI		VCI 🙃	•	58
	ECU Upgrade				P
📾 VENGA(YN) > 2011	> D 1.4 TCI-U2				
320.YN U2 1.4 HESITA	NITON IMPROVEMENT				
	29%				
	ECU Upgrading(1/2)				
ECU	is in the process of being upgra Please wait few minute.	ded.			
ROM ID					
Currently in Vehicle	98YN502MCWEHIA02				
Latest Update	9BYN502MCWEHIA04				
	ОК				
Informa	ation				

CAUTION

1. DO NOT start the engine and DO NOT turn the ignition key to the OFF position

DU NUT start the engine and DU NUT turn the ignition key to the OFF position during the ECU upgrade.
 Ensure that the battery is fully charged BEFORE beginning ECU upgrade.
 Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade.

Do not touch any system buttons while performing this function. 1

HOME Online	VENGA(YN)/2011/D 1.4 TCI	vci 🚌 🎝	383
	ECU Upgrade		₽
🚔 VENGA(YN) > 2011	> D 1.4 TCI-U2		
320.YN U2 1.4 HESITA	ITON IMPROVEMENT		
	100%		
	ECU Upgrading(2/2)		_
then ba	Turn IG off for 20 seconds and ck on. Click the OK button to conti	nue.	
ROM ID			
Currently in Vehicle	98YN502MCWEHIA02		
Latest Update	9BYN502MCWEHIA04		
	ОК		
Informa	ation		
• CAUTION 1. DO NOT start the eng	ine and DO NOT turn the ignition key	to the OFF posi	ition

DO NOT start the engine and DO NOT turn the ignition key to the OFF position during the ECU upgrade.
 Ensure that the battery is fully charged BEFORE beginning ECU upgrade.
 Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade.

Do not touch any system buttons while performing this function.

Step6

ECU upgrade is being performed automatically.

Step7

Turn IG off the 20 seconds and click the [OK] button to continue.

HOME Online	VENGA(YN)/2011/D 1.4 TCI ※	VCI 🙃	🖲 🖂
	ECU Upgrade		₽
📾 VENGA(YN) > 2011	I → D 1.4 TCI-U2		
320.YN U2 1.4 HESITA	NTON IMPROVEMENT		
	Succeed		- 1
The E	CU Upgrade is successfully finis	hed.	
ROM ID			
Currently in Vehicle	9BYN502MCWEHIA04		
Latest Update	9BYN502MCWEHIA04		
	ОК		
Informa	ation		

CAUTION

1. DO NOT start the engine and DO NOT turn the ignition key to the OFF position DU NOT start the engine and DU NOT turn the ignition key to the OFF position during the ECU upgrade.
 Ensure that the battery is fully charged BEFORE beginning ECU upgrade.
 Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade.

1 Do not touch any system buttons while performing this function. Step8 After ECU Upgrade is complete, check "Currently in Vehicle ROM ID".

Tap [OK] button.

1

2

The pop-up message is displayed and "Fault Code Searching" function is able to be performed as below.

Notice			
	Do you want run F	ault Code Searching?	
	Voc	No	

ECU Upgrade – Manual Mode

"Manual mode" is used to upgrade when there is a failure during procedure or replaces a data of ECU for special purpose. It shows all events for the selected system. It is forced to upgrade data from the current ROM ID to a previous version of ROM ID. The User can select each event for the control module to update intentionally. Password should be written at this progress.

(!) Caution

- Manual mode must be performed only when Auto mode reprogramming failed.
- ECU can be damaged if the ECU specification is not matched with selected event.
- If Auto mode reprogramming fails, turn IG switch off for 10 seconds then place IG switch on position and then perform manual mode reprogramming

🕆 HOME Online VENGA(YN)/2011/D 1.4 TCL. VCL 📾 💀 🔀	Step1
ECU Upgrade	Select "Manual Mode"
⇔ VENGA(YN) > 2011 > D 1.4 TCI-U2	
Auto Mode Manual Mode	
Information Event List	
• CAUTION	
DO NOT start the engine and DO NOT turn the ignition key to the OFF position during the ECU upgrade. Secure that the battory is fully charged BEEORE bacinging ECU upgrade.	
 Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade. 	
Review the applicable TSB/procedure before performing an ECU upgrade. Make certain that the proper connector mentioned in the related TSB is used.	
b. Ensure that any applicable components are replaced BEFURE performing the ECU upgrade. 7. Confirm the new ROM ID after performing an ECU upgrade.	
8. Do not disconnect the communication with vehicle during upgrading the ECU!!	
Do not touch any system buttons while performing this function.	



When VCI is not found, the pop-up message below appears



" "Vehicle Selection" should be performed before executing this function.



Step2 Select the system to perform ECU Upgrade.

🚺 Notice

It displays only the system which ECU upgrade Event is supported at the selected vehicle.

■ VENGA(YN) > 2011 > ● System	ECU Up D 1.4 TCI-U2	grade			•
 ■ VENGA(YN) > 2011 > 1 ■ System 	D 1.4 TCI-U2				
• System					
ENGINE EPS)	>
Event Group				TSB	
354.YN U1.4 DTC(P2459)	LOGIC IMPRO	OVEMENT		4	
320.YN U2 1.4 HESITAITO	N IMPROVEN	IENT		J	
283.YN U2-1.4 ENGINE C	OMBUSTION	NOISE IMPROVEME	NT	٤	
220.YN U1.4 ECM UPGRA	DE			٩	(
209.YN 1.4 AUTO CRUISE	CONTROL LO	OGIC IMPROVEMEN	т	1	
YN 1.4 EU5 H/POWER 6					
YN 1.4 EU5 L/POWER 5M	AT : 39130-2A	311			
YN 1.4 EU5 L/POWER 6M	AT : 39130-2A	362			
YN 1.4 EU4 H/POWER 6	VIT : 39130-24	4321			
Latest Update 981	N502MCWEH	1IA02			
Previou	s	Upgrade	•		
Information	1				*
CAUTION					

Step3

Select the ECU Upgrade Event on Event Group

Select the detailed event below.

() Caution

- Check vehicle information on the TSB document and then, perform the ECU upgrade with the correct ECU Upgrade Event.
- If the vehicle information is not correct, it can cause a problem when performing the ECU upgrade, rendering the ECU unusable

HOME Online VENGA(YN)/2011/D 1.4 TCL. VCI 🚓 😓 👯
ECU Upgrade 🔗 🏈
Password
R
Check the TSB
ОК
354.YN U1.4 DTC(P2459) LOGIC IMPROVEMENT
320.YN U2 1.4 HESITAITON IMPROVEMENT
283.YN U2-1.4 ENGINE COMBUSTION NOISE IMPROVEMENT
220.YN U1.4 ECM UPGRADE
209.YN 1.4 AUTO CRUISE CONTROL LOGIC IMPROVEMENT
YN 1.4 EU5 H/POWER 6MT : 39130-2A302
YN 1.4 EU5 L/POWER 5MT : 39130-2A311
YN 1.4 EU5 L/POWER 6MT : 39130-2A362
YN 1.4 EU4 H/POWER 6MT : 39130-2A321
1 2 3 4 5 6 7 8 9 0
qwertyuiop 🖾
asdfghjklDone
t z x c v b n m ,! .? t
Sym 🏟 📖 🦓 📋

Step4

Enter Password and tap [OK] button.

Ö

Notice

Tap [Check the TSB] button and you can open TSB information related to the ECU Upgrade Event.

		×			VCI 🙃	••• 8
	EC	CU Upgra	de			₹
📾 VENGA(YN) > 201	1 > D 1.4 1	TCI-U2				
System						
ENGINE	EPS					
Event Group						TSB
354 YN U1 4 DTC(P) CAUTION	2459) I OGIO		MENT			
5 CA	94 1	Do not to (like 'Bac performi It may da	uch the k', 'Hom ng this f image E	system e', 'etc.') unction CU.	button: while	5
		ОК				
YN 1.4 EU5 L/POW	ER 6MT : 39	9130-2A362				
YN 1.4 EU4 H/POW	ER 6MT : 3	9130-2A321				
Latest Update	98YN502	MCWEHIA0:	2			
Pre	vious		Up	grade		
Inform	ation		_	_	_	*
CAUTION	any evetor	n huttons w	hilo porf	ormina t	hie funz	tion
HOME Online	VENGA((YN)/2011/D	1.4 TCI		VCIO	
HOME Online	VENGA((YN)/2011/D	1.4 TCI		VCI 🚌	1
HOME Online	VENGA	CU Upgra	1.4 TCI de		VCI 🙃	€ € 2
HOME Online ← VENGA(YN) > 201 = 209.YN 1.4 AUTO CRI	VENGA E(1 > D 1.4 1 JISE CONTRG	(YN)/2011/D CU Upgra TCI-U2 DL LOGIC IMF	1.4 TCI de PROVEME	NT	VCI 🙈	€ €
HOME Online ← VENGA(YN) > 201 ← 209.YN 1.4 AUTO CRU	VENGA(EC 1 > D 1.4 3 JISE CONTRO	YN)/2011/D CU Upgra TCI-U2 DL LOGIC IMF	1.4 TCI de PROVEMEI	NT	VCI 🗩	€ 2
HOME Online ↔ VENGA(YN) > 201 209.YN 1.4 AUTO CRU	VENGA(EC 1 > D 1.4 ° JISE CONTRO	YN)/2011/D CU Upgra TCI-U2 DL LOGIC IMF	de PROVEME	NT	VCI 🗩	 ₩ ₩
HOME Online	VENGA(EC 1 > D 1.4 T	YN)/2011/D CU Upgra TCI-U2 DL LOGIC IMF 92%	1.4 TCI de PROVEMEN	NT	VCI 흤	
HOME Online ← VENGA(YN) > 201 209.YN 1.4 AUTO CRU ECU	VENGA(EC UISE CONTRO UISE CONTRO ECU L is in the pu Please	YN)/2011/0 CU Upgra TCI-U2 DL LOGIC IMF 92% Upgrading. process of b e wait few m	1.4 TCI de PROVEME (1/2) eing upgninute.	NT graded.	VCI ଲ	€ 2000 →
 HOME Online ✓ VENGA(YN) > 201 209 YN 1.4 AUTO CRU 209 YN 1.4 AUTO CRU 	VENGA(EC 1 > D 1.4 1 UJISE CONTRO UJISE CONTRO ECU L is in the pu Please	YN)/2011/0 CU Upgra rci-U2 DL LOGIC IMF 025 Upgrading. rocess of b wait few m	1.4 TCL. de PROVEME (1/2) (1/2) up(NT graded.	VCIA	5 2
HOME Online VENGA(YN) > 201 209 YN 1.4 AUTO CRU CUTTENT OR CUTTENT OR	VENGA(ECUL is in the pri Please	YN)/2011/0 CU Upgrad TcI-U2 DL LOGIC IMF UL LOGIC IMF 923 Jpgrading. Frocess of b wait few n	LATCL. de PROVEME (1/2) (1/2)	NT graded.	VCI SA	
 HOME Online HOME Online VENGA(YN) > 201 209.YN 1.4 AUTO CRU 209.YN 1.4 AUTO CRU ECU ECU Currently in Vehicle Latest Update 	VENGA(ECU L SECU L SECU L SECU L SECU L SECU L SECU L SECU L	YN)/2011/D CU Upgra TcI-U2 DL LOGIC IMP 92% 92% Jpgrading. rocess of b e wait few n	1.4 TCL. de PROVEMEI (1/2) ieing upg innute.	nrt graded.	VCI &	
HOME Online VENGA(YN) > 201 209.YN 1.4 AUTO CRU ECU ROM ID Currently in Vehicle Latest Update	VENGA(EC 1 > D 1.4 1 JJSE CONTRU UISE CONTRU ECU L is in the pi Please	VN)/2011/0 CU Upgra TCI-U2 DL LOGIC IMF 92% 92% 92% 92% 92% 92% 92% 92%	1.4 TCL. de PROVEMENT (1/2) ieing uppg ininute. 12	NT graded.	VCI®	
HOME Online VENGA(YN) > 201 209.YN 1.4 AUTO CRU CUTENTLY IN VENICLE Latest Update	VENGA(EC 1 > D 1.4 T UISE CONTRO ECU L is in the pl Please	YN)/2011/0 CU Upgra rci-U2 DL LOGIC IMF 225 225 225 225 225 225 225 22	1.4 TGL. de PROVEMEI ((1/2) 12	NT graded.	VCI @	
HOME Online VENGA(YN) > 201 209.YN 1.4 AUTO CRU ECU ROM ID Currently in Vehicle Latest Update Inform	VENGA(ECUL is in the pu Please 98YN502 ation	YN)/2011/0 CU Upgrai rci-U2 DL Logic IMF DL Logic IMF 92% 92% 92% 92% 92% 92% 92% 92% 92% 92%	1.4 TGL. de PROVEMEI (1/2) ieing uppgrafininute. 12	graded.	VCI 🕾	
 HOME Online VENGA(YN) > 201 209 YN 1.4 AUTO CRU 209 YN 1.4 AUTO CRU ECU ROM ID Currently in Vehicle Latest Update 	VENCA(I > D 1.4 T JUSE CONTROL I > D 1.4 T UISE CONTROL I > D 1.4 T I >	YN)/2011/0 CU Upgra rci-U2 DL Logic IMF 92% Jpgrading. roccess of b wait few m 2MCWEHIAO OK	I.4 TCL. de PROVEME (1/2) (1/2) 	NT graded.	VCI 🚓	
HOME Online VENGA(YN) > 201 209.YN 1.4 AUTO CRU 209.YN 1.4 AUTO CRU ECU CUrrently in Vehicle Latest Update Inform CAUTION LOD NOT start the en	VENGA(PN)/2011/0 CU Upgra TCI-U2 DL LOGIC IMF DL LOGIC IMF 92% Upgrading. PORCWEHIAO OK	1.4 TGL de PROVEME ((1/2) ininute. 12	nr graded.	VCI 🚓	
HOME Online VENGA(YN) > 201 209.YN 1.4 AUTO CRU ECU ROM ID Currently in Vehicle Latest Update Inform CAUTION D. DO NOT start the en during the ECU upgrade	VENGA(VN)/2011/0 CU Upgra TCI-U2 DL LOGIC IMF 202 Upgrading. PORCWEHIAO OK D NOT turn 1	1.4 TGL. de PROVEME (1/2) (1/2) (1/2) (2) (2) (2) (2) (3) (4) (4) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5	nr	vci 🚓	Position

Do not touch any system buttons while performing this function.

Step5 Please refer to the "Caution" and click the [OK] button.

Step6 ECU upgrade is being performed automatically

Caution

Do not touch or interrupt the program while performing ECU Upgrade.

HOME Online	VENGA(YN)/2011/D 1.4 TCL. VCI 📾 🚯 🚼					
	ECU Upgrade 🥏					
S VENGA(YN) > 2011 > D 1.4 TCI-U2						
	10%					
ECU Upgrading(2/2)						
Turn IG off for 20 seconds and then back on. Click the OK button to continue.						
ROM ID						
Currently in Vehicle						
Latest Update	98YN502MCWEHIA02					
	ок					
Informa	ation					
CAUTION						
 DO NOT start the eng during the ECU upgrade. Ensure that the batter Confirm the target vertices 	ine and DO NOT turn the ignition key to the OFF position y is fully charged BEFORE beginning ECU upgrade. ehicle/system BEFORE performing a manual/error mode					
Do not touch	any system buttons while performing this function.					
HOME Online	VENGA(YN)/2011/0 1.4 TCL. VCL 📾 🚯 🔀					
	ECU Upgrade 🖌 🏈					
Server VENGA(YN) > 2011	I > D 1.4 TCI-U2					
	10%					
	Succeed					
The ECU Upgrade is successfully finished.						
ROM ID						
Currently in Vehicle	98YN502MCWEHIA02					
	UK					
Informa	ation					
CAUTION						
 DO NOT start the eng during the ECU upgrade. Ensure that the batter Confirm the target v 	jine and DO NOT turn the ignition key to the OFF position y is fully charged BEFORE beginning ECU upgrade. ehicle/system BEFORE performing a manual/error mode					

Step7

Turn IG off the 20 seconds and click the [OK] button to continue.

Step8

After ECU Upgrade is complete, check "Currently in Vehicle ROM ID".



Notice						
Do you want run Fault Code Searching?						
	Vec	No				

Newest ECU Upgrade Event and downloading _Europe/General

When the user starts ECU Upgrade function, the newest ECU upgrade event of the selected vehicle is downloaded and updated automatically if Internet connection is on and the event is available.

HOME Online SORENTO(XM)/2013/G 3.5 MPI	vci 🙉 🚯 🗄
ECU Upgrade	
📾 SORENTO(XM) > 2013 > G 3.5 MPI	
Download the latest events of the selected veh	nicle.
Event	Status
331.XM 2.4 AT AUTO CRUISE IMPROVEMENT (TCU)	Downloading
330.XM FL COLD IDLE RPM STABILITY IMPROVEMENT	Ready
27%	
O not touch any system buttons while perform	ning this function.

(!) Caution

- To not run engine or turn off the ignition off during ECU upgrade.
- **Check the status of battery before ECU upgrade. It should be fully charged.**
- Check if the system is selected correctly during Manual Mode.
- Check the maintenance information or campaign of the vehicle before ECU upgrade.
- Check the cable or adaptor used with the vehicle before ECU upgrade.
 (Each vehicle can be connected with a different adapter.
- Replace the new part and then perform ECU upgrade when the part is required to be replaced.
- Check the ROM ID after ECU upgrade.