

Technical product information

Topic	2012MY New GT family - Winter tyre option – enabling corresponding data to be displayed in the infotainment unit (RNS)
Market area	Worldwide Bentley (1WBE)
Brand	Bentley
Transaction No.	2028457/3
Level	EH
Status	Approval
Release date	

New customer code

Object of complaint	Complaint type	Position
Running gear -> Tyre monitoring	concept	

New workshop code

Object of complaint	Complaint type	Position
Running gear -> Wheels, tyres, tyre pressure monitoring -> Tyre pressure monitoring system control unit	concept -> functionality concept error	

Vehicle data

2012 model year New Continental GT derivatives

Sales types

Type	MY	Brand	Designation	Engine code	Gearbox code	Final drive code
3931*	2012	E		*	*	*
3941*	2012	E		*	*	*

Chassis numbers

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
SCB	***	3W	*	C	C				

Technical product information

Manufacturer	Filler	Type	Filler	MY	Factory	From	To	Prod from	Prod to
SCB	***	ZA	*	C	C				

Documents

Document name
master.xml

Customer statement / workshop findings

The vehicle is to be fitted with 21" winter tyres or 20" snow chains and the infotainment unit is displaying only 20" winter tyre

Technical background

Currently the Infotainment unit (RNS) is programmed during manufacture to display only the 20" winter tyre option.

If the vehicle is to be fitted with 21" winter tyre option or 20" snow chain option then additional software can be loaded into the infotainment system to enable the correct tyre detail to be displayed

Production change

It is expected that these additional winter tyre options will be incorporated into the software during the 2013 MY production

Measure

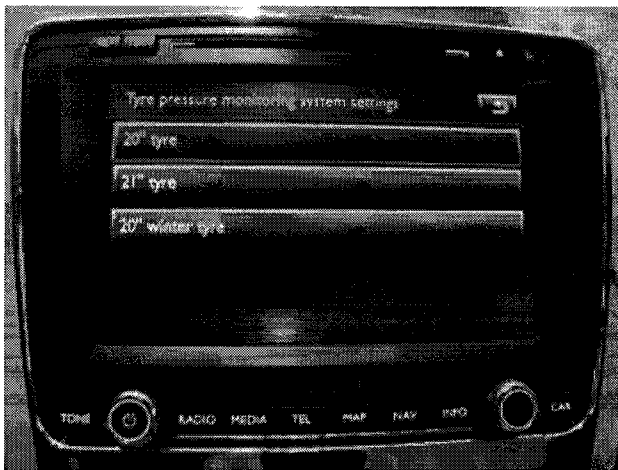


Figure 1

If the vehicle is to have 21" winter tyre or 20" snow chains fitted and these options are not currently offered up for selection in the infotainment unit (see Figure 1) then the following process can be performed

Process 1: Check current software level

1. To check current software level
 - If not already powered up switch on Infotainment unit via ON/OFF button



Figure 2

- Once the unit has powered up press and hold the CAR button for at least 5 seconds. That is until the screen displays *Radio service mode* (see Figure 2 and 3)



Figure 3

- In the *Radio service mode* screen select *Version info* (see Figure 3)



Figure 4

- In the *Version info* screen note the Delivery part number, HW-Version and the SW-Version
- Reference the displayed Delivery part number, HW-Version and SW-Version against the chart shown in figure 5 below. If the numbers displayed are all listed in the same row in the left hand, *production part*, columns of the chart, then the infotainment unit software update will be required before the additional winter tyre options can be selected. In this case process 3 will have to be carried out followed by process 2.
- If the numbers currently displayed on the infotainment unit are listed in the same row on the right of the chart, figure 5, the vehicle already has the software necessary to enable the additional winter tyre options to be selected. This is performed by coding channel 143 and enabling the necessary TPMS data set. In this case process 2 only will be required.

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Europe and Rest of world production part				Part number supporting additional winter tyre text			
Part no	Software	Hardware	Update Disc WT 10310	Part no	Software	Hardware	
3W0.035.007.AB	236	H03		3W0.035.017.F	160	H03	
3W0.035.007.AC	116	H03		3W0.035.017.F	160	H03	
3W0.035.007.AC	116	H05		3W0.035.017.F	160	H05	
3W0.035.017.F	154	H06		3W0.035.017.F	160	H06	
North America production part				Part number supporting additional winter tyre text			
Part no	Software	Hardware	Update Disc WT 10309	Part no	Software	Hardware	
3W0.035.008.R	448	H03		3W0.035.017.C	360	H03	
3W0.035.017	322	H03		3W0.035.017.C	360	H03	
3W0.035.017	322	H05		3W0.035.017.C	360	H05	
3W0.035.017.C	354	H06		3W0.035.017.C	360	H06	
China production part				Part number supporting additional winter tyre text			
Part no	Software	Hardware	Update Disc WT 10311	Part no	Software	Hardware	
3W0.035.008.Y	636			3W0.035.017.E	560		
3W0.035.017.B	518						
3W0.035.017.E	552						
3W0.035.017.E	554						
Japan production part				Part number supporting additional winter tyre text			
Part no	Software	Hardware	Update Disc WT 10312	Part no	Software	Hardware	
3W0.035.008.S	806			3W0.035.017.D	760		
3W0.035.017.A	722						
3W0.035.017.D	752						
3W0.035.017.D	754						

Figure 5

Process 2: Enabling winter tyre options – Coding channel 143 and TPMS data set input

The following coding operation should only take place once the correct winter tyre text software has been confirmed in process 1 and if not present installed via process 3.

1. Coding Channel 143
1. Ensure a suitable battery charger is correctly connected to the vehicles electrical system for the duration of this procedure
2. Connect the VAS 5052A vehicle diagnostic computer to the vehicle. As an SVM is required the Bluetooth connection is not recommended
3. Insert the key into the ignition switch and turn on the ignition



Figure 6

4. Select *Vehicle Self-Diagnosis* (see Figure6)

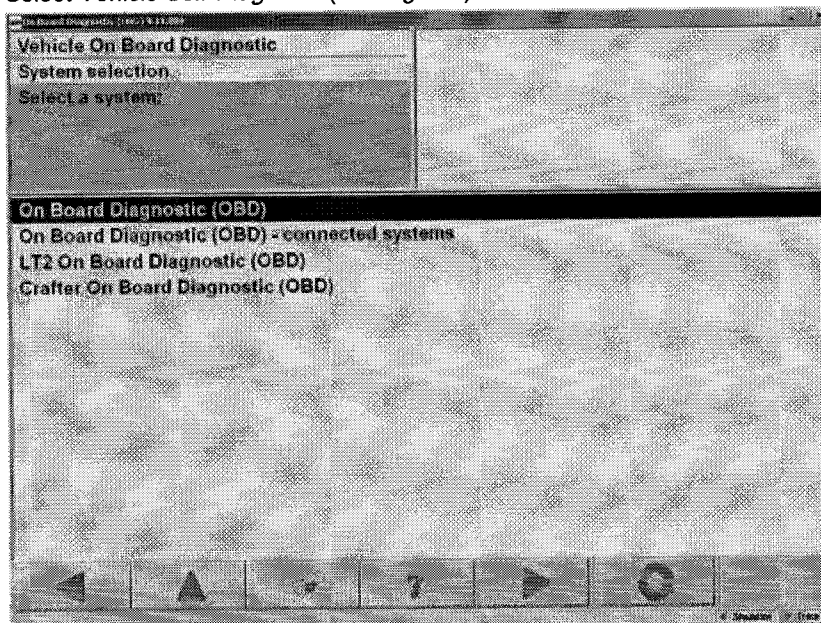


Figure 7

5. Select *On Board Diagnostic (OBD)* (see Figure 7)

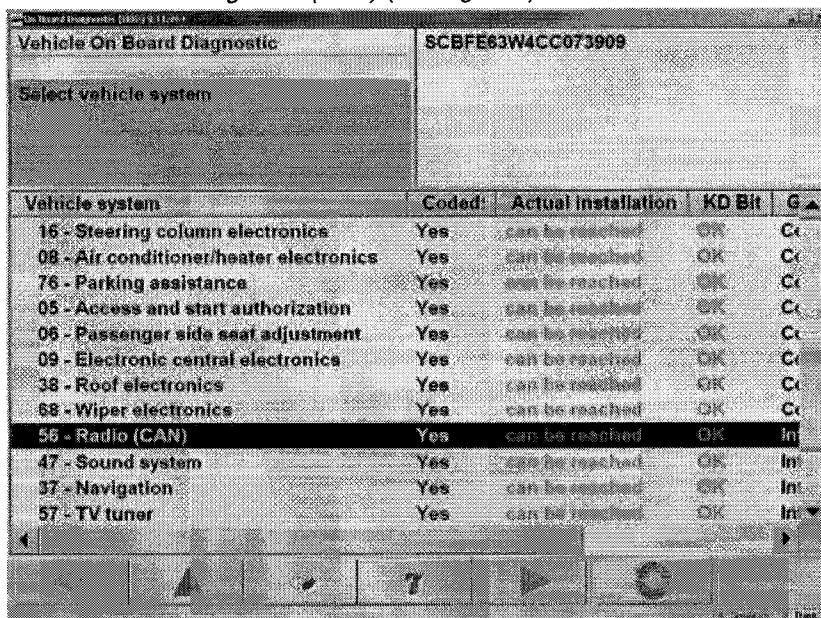


Figure 8

6. In *Select vehicle system* select **56 – Radio (CAN)** (see Figure 8)

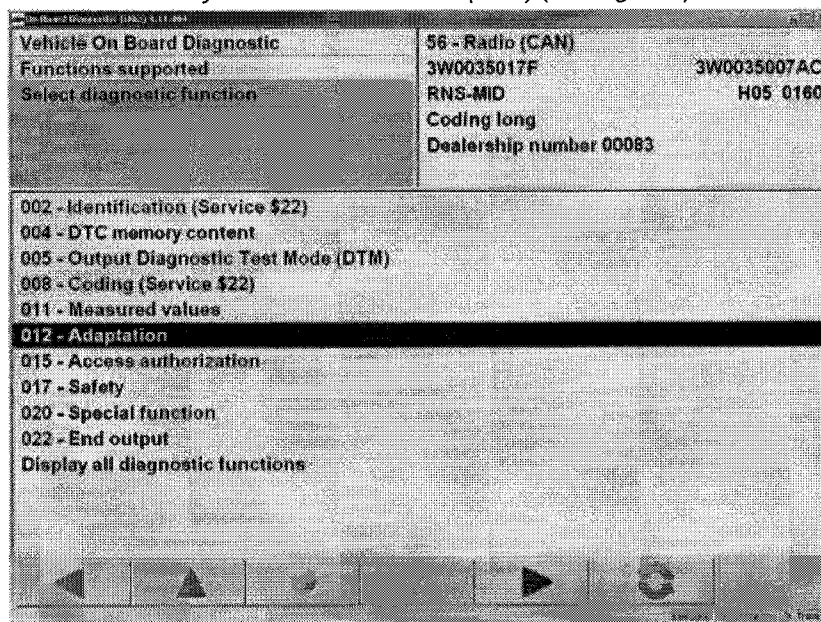


Figure 9

7. In *Select diagnostic function* select **012 – Adaptation** (see Figure 9)

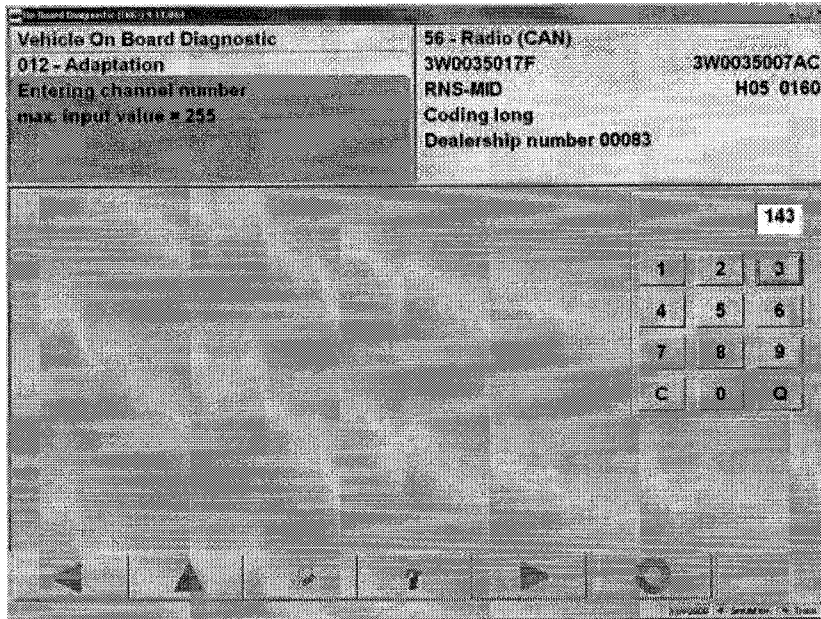


Figure 10

8. Enter channel number 143 followed by Q (see Figure 10)

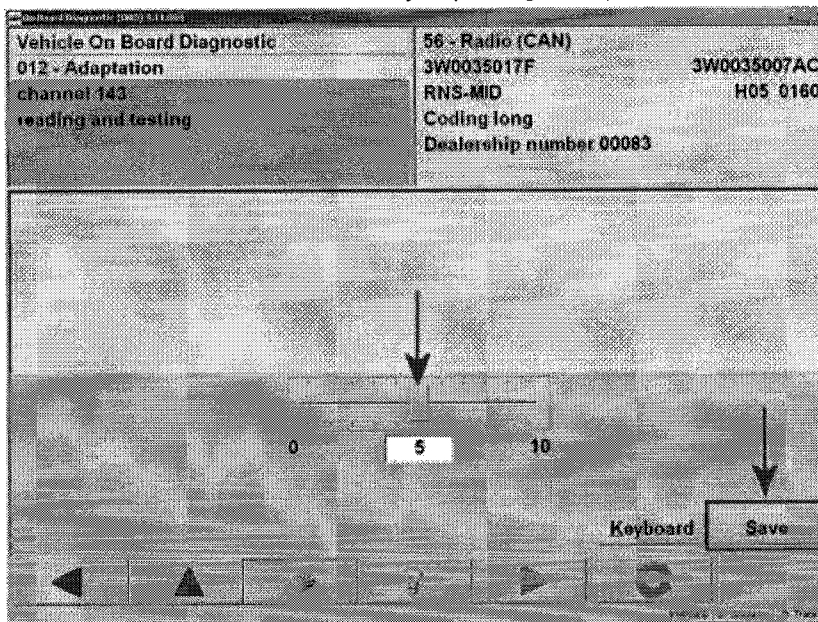


Figure 11

9. Referencing the table below select the appropriate input value for channel number 143 for the tyre to be fitted. Enter that value using the virtual slider, then select *Save*. The example in Figure 11 shows the correct value (5) to be entered into channel 143 to enable the use of 20 " Snow Chain

	20" Winter	20" Snow Chain	21" Winter
Channel number	Value	Value	Value
140	1	1	1
141	2	2	2
142	0	0	0
143	3	5	7
144	0	0	0

Note: In the unlikely event that one or more of the other four channels, 140,141,142 or 144, are not showing the values shown in the above table then they can be corrected using the same method as detailed above for channel 143

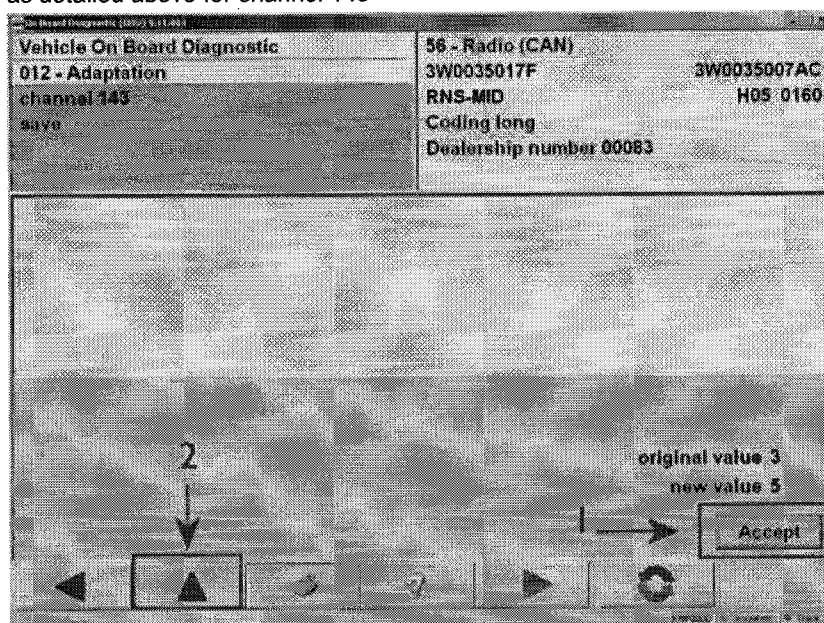


Figure 12

10. Select *Accept* (1) then up arrow (2). Then select *End* and *End* to exit and return to the VAS front screen (see Figure 12)

TPMS data set input

11. Ensure the VAS 5052A vehicle diagnostic computer is still connected to the vehicle.

12. Ensure the ignition is still **ON**

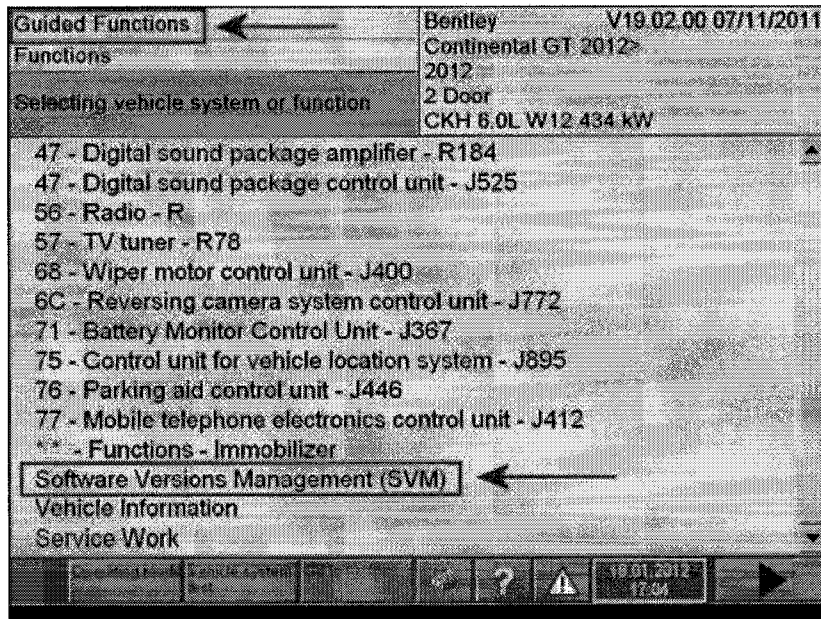


Figure 13

13. Select *Software Version Management (SVM)* within Guided Functions (see Figure 13)

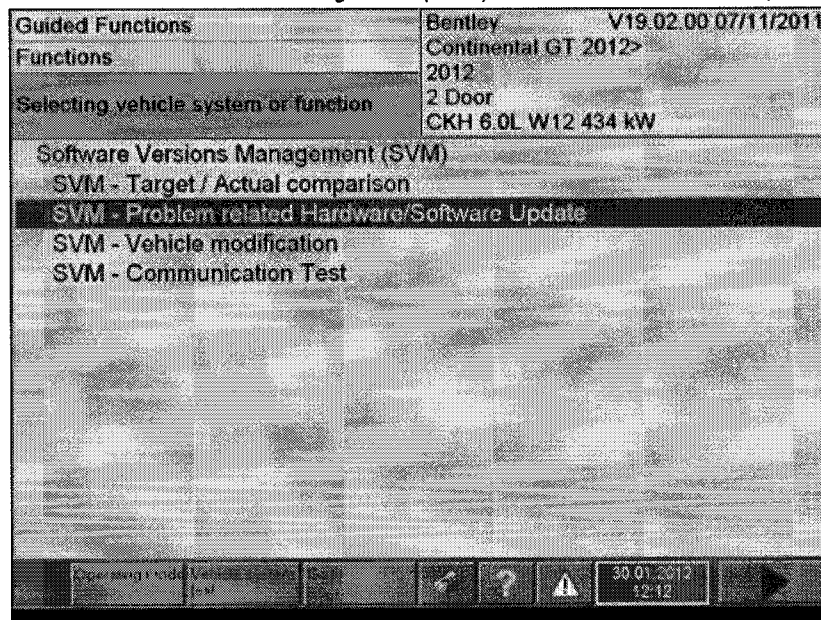


Figure 14

14. Select *SVM - Problem related Hardware/Software Update* (see Figure 14)

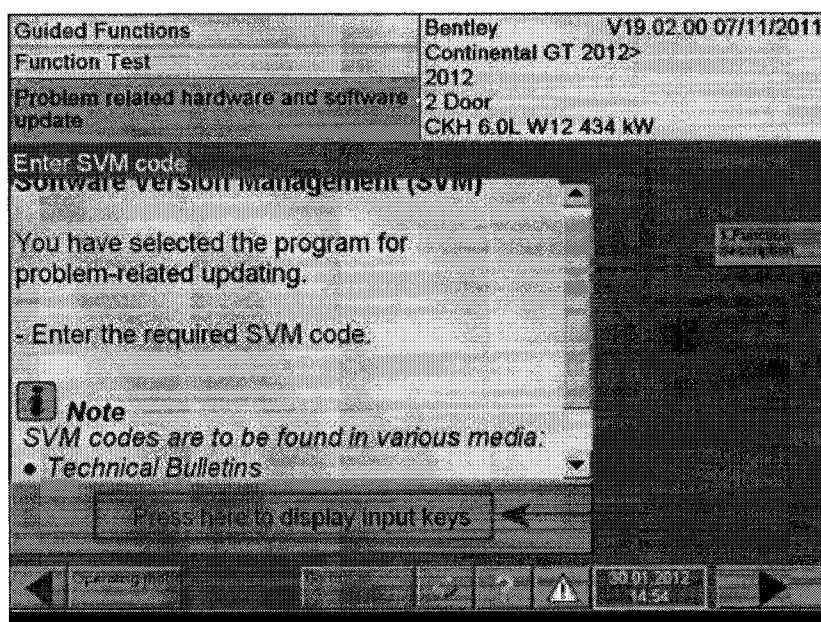


Figure 15

15. Display the virtual key board (Press here to display input keys) (see Figure 15)

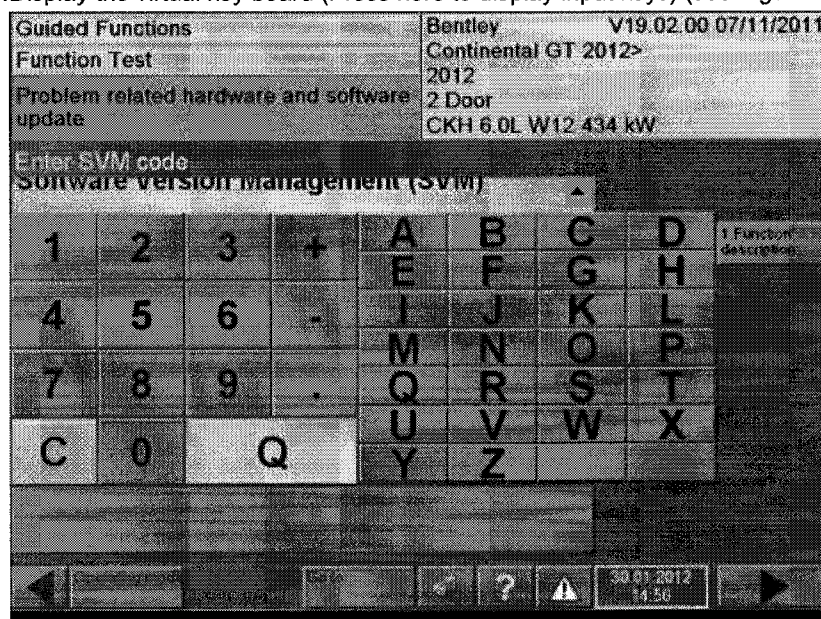


Figure 16

Winter Tyre Option:	SVM Code:
20" Winter	39065A0001P
20" Winter Snow Chain	39065A0002P
21" Winter	39065A0003P

Figure 16A

16. Enter the correct **SVM code** for the tyre type that is to be used (see Figure 16 and 16A)

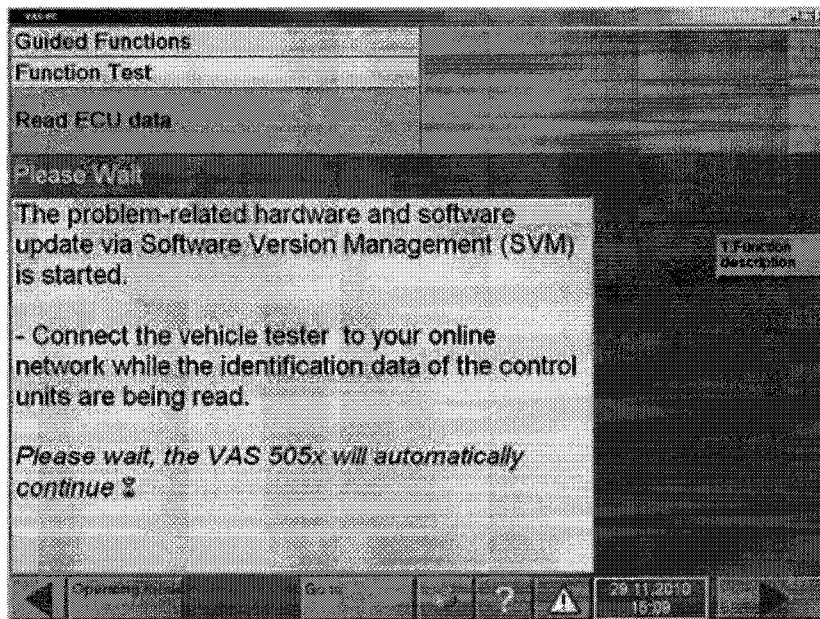


Figure 17

17. Ensure you maintain your on – line network – Broadband connection. All modules will now be interrogated, next you will be prompted to connect to SVM, your Global User Sign – on will be required. Follow the screen prompts to continue through the procedure

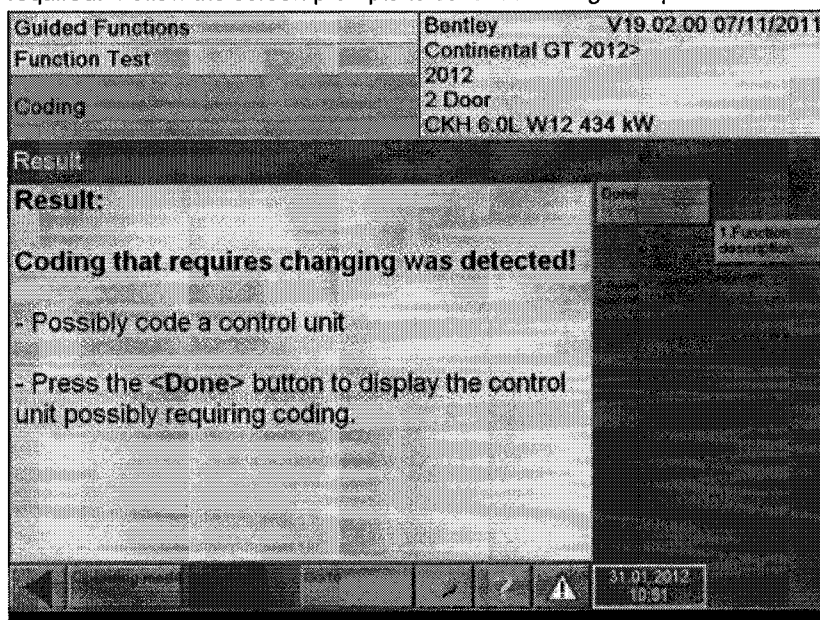


Figure 18

18. The Result screen will show that coding requires changing. As prompted select *Done* (see Figure 18)
19. The current and new Calculated codes will be show in the Selection screen select *Yes*
20. In the Successful coding screen select *Done*

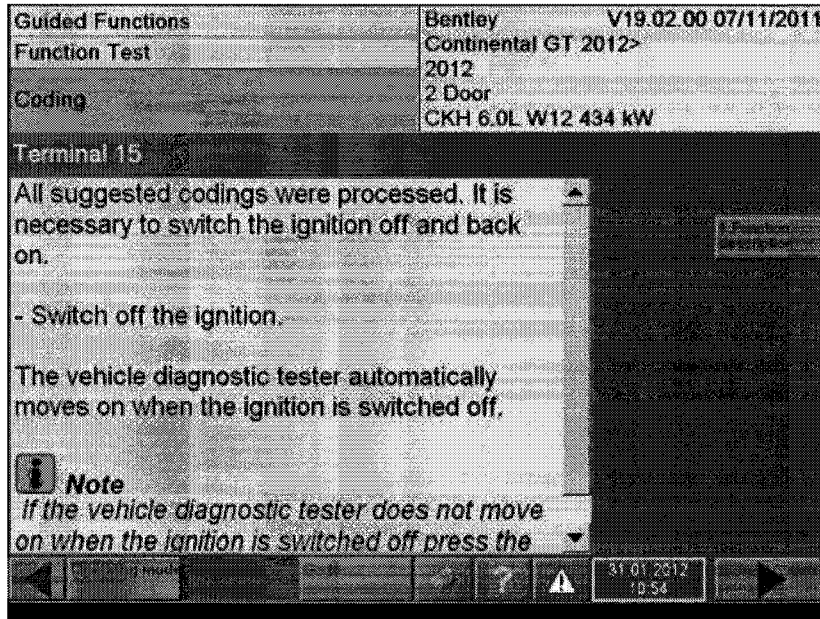


Figure 19

21. When prompted carry out an ignition cycle, the screen will automatically move on (see Figure 19)

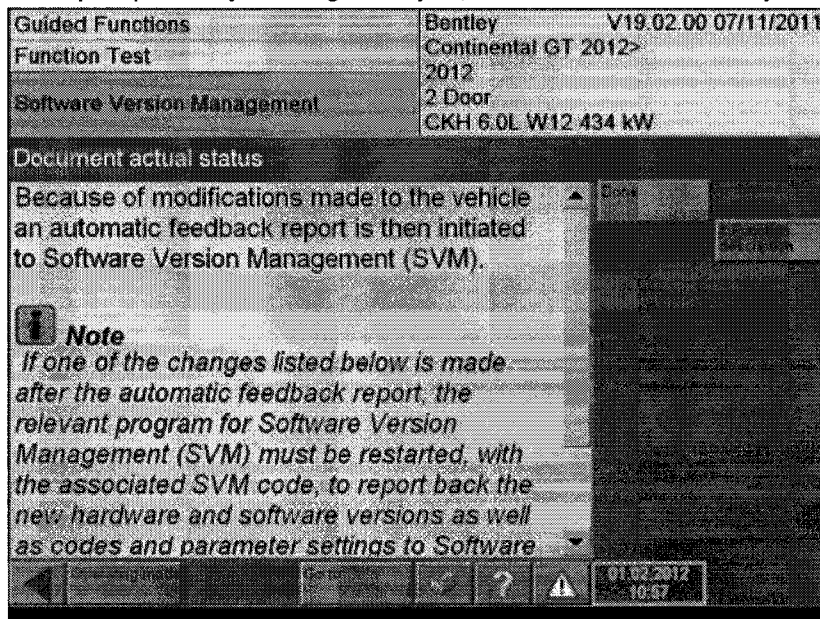


Figure 20

22. The test will progress to the *Document actual status*, automatic feedback report screen Select *Done* (see Figure 20)

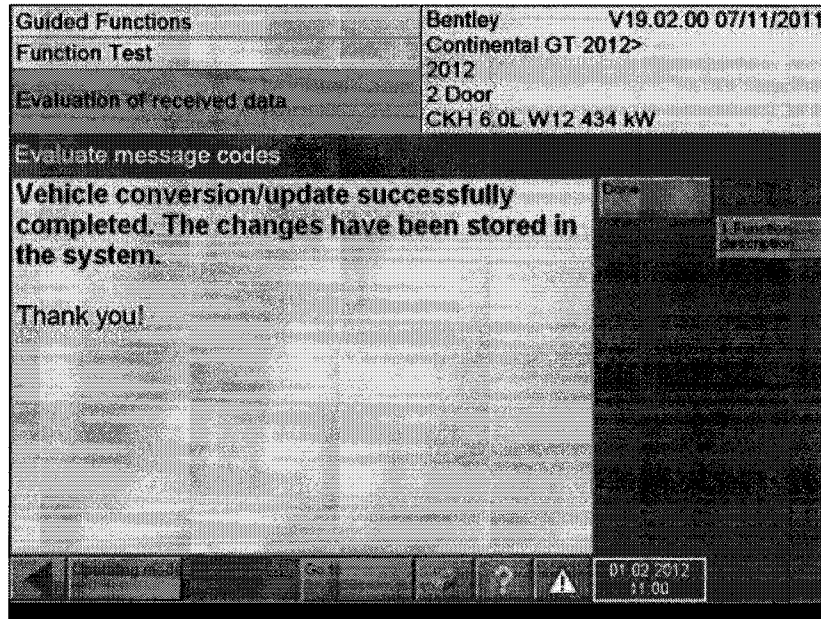


Figure 21

23. An automatic SVM will take place followed by a successfully completed screen. Select *Done* and *Done* to return to the *Test Plan* screen

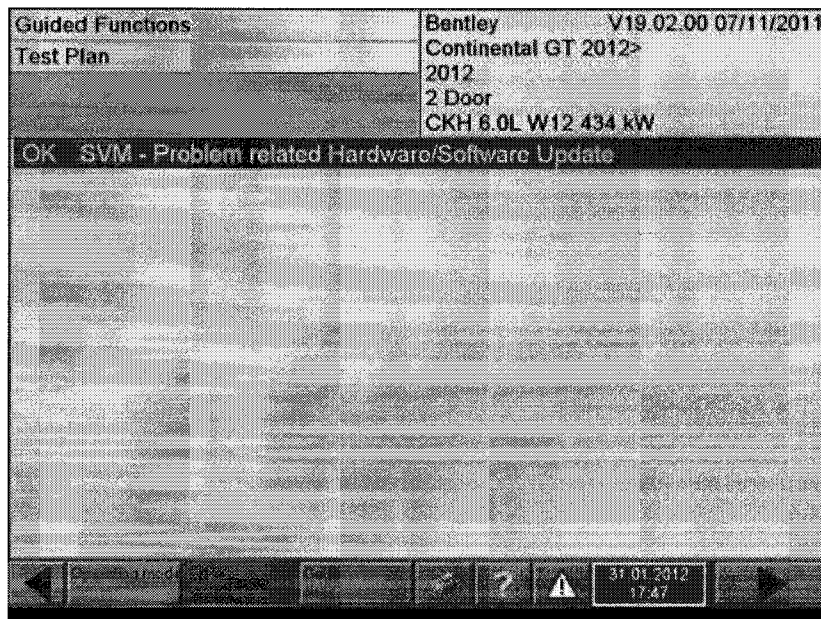


Figure 22

24. Once back at the *Test Plan* screen turn off the ignition and remove the key, leave the ignition OFF for 10 minutes (see Figure 22)
25. After the 10 minutes switch on the ignition. Ensure the infotainment unit has powered up, if necessary use the ON/OFF button to power up the unit



Figure 23

26. Select CAR – the infotainment unit will now initialise the new adaptation. Whilst this takes place the *System starting* graphic is displayed (see Figure 23)

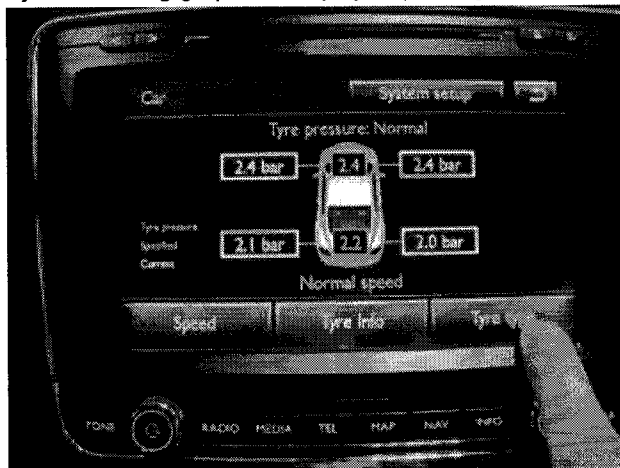


Figure 24

27. Once the screen is displaying the tyre pressure data the *Tyre type* button can be selected (see Figure 24)

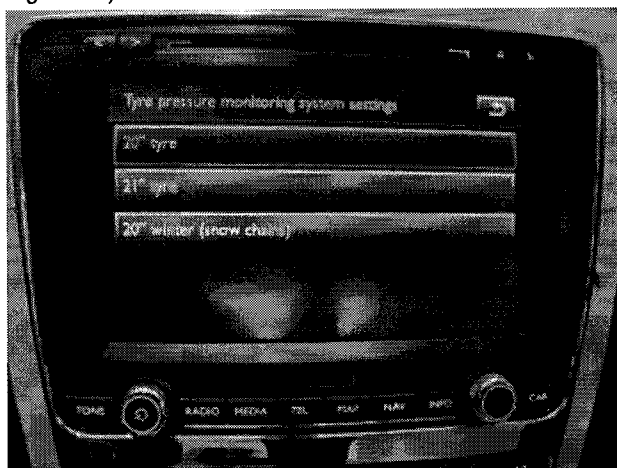


Figure 25

28. The tyre type screen will now display, and if required allow the selection of, the new winter tyre option. In the example, figure 25, 20" winter (snow chains) is offered as a selectable option as a result of inputting 5 into channel 143 during operation 9 (see Figure 26)

Process 3: Infotainment unit software update

IMPORTANT: When performing software updates it is always advisable to attach prominent warning signs on the vehicle alerting other people within the dealership that a software update is in progress. It should be clear to personnel in the vicinity of the vehicle that whilst the updates are in progress the ignition state should not be changed the battery charger or any associated equipment must not be removed or switched off



Note: Ensure a suitable battery charger is correctly connected to the vehicle electrical system for the duration of this procedure

1. Ensure the ignition is switched **off** and the key is placed on the top roll
2. Switch on the infotainment unit via the ON/OFF button



Figure 26

3. Select and insert the correct regional update disc for the build specification of the car, refer to *Parts information* table below (see Figure 26)

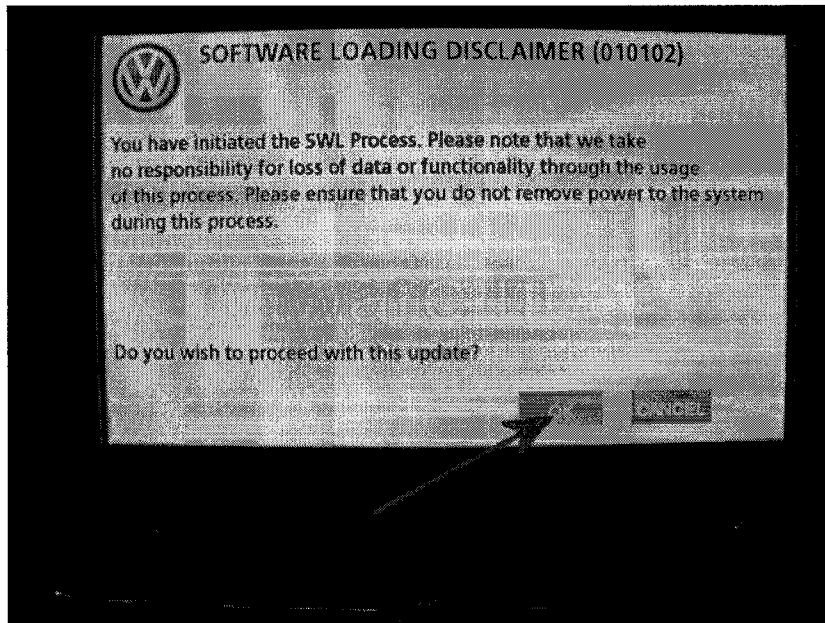


Figure 27

4. After inserting the disc wait until the "Software Loading Disclaimer" screen is displayed, then press the "OK" button to proceed (see Figure 27). **Note:** A DVD/CD error screen and other screens will briefly be displayed before the software loading disclaimer is shown these screens can be ignored

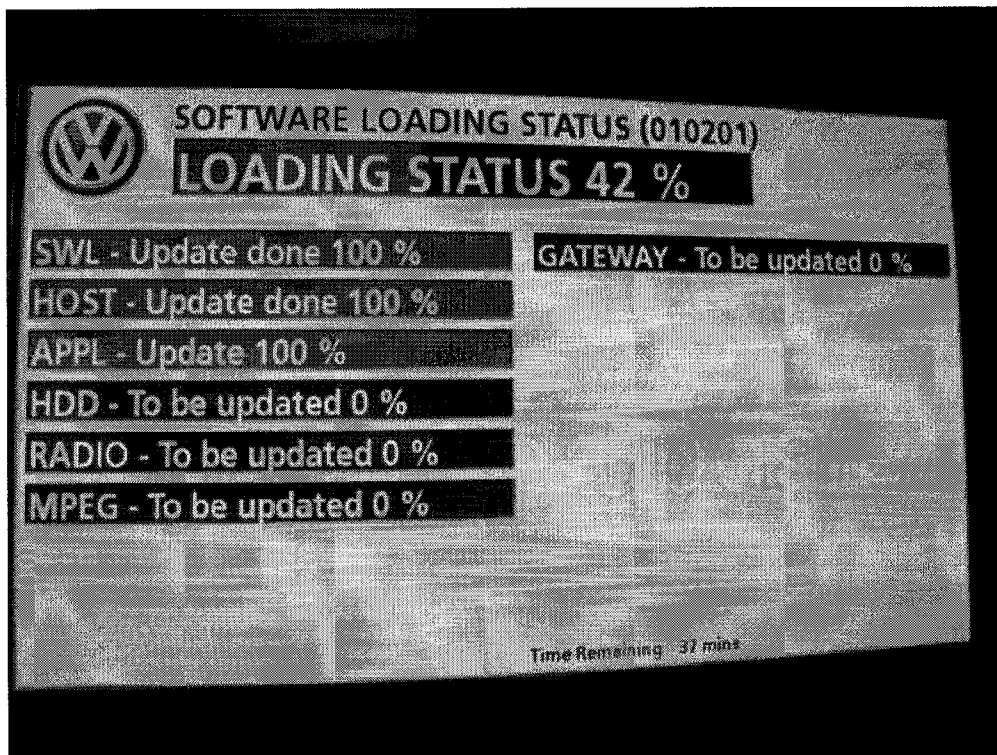


Figure 29

5. The software loading status screen will be displayed for the duration of the down load, approximately 50 minutes. During this time do not operate the infotainment unit (see Figure 29)

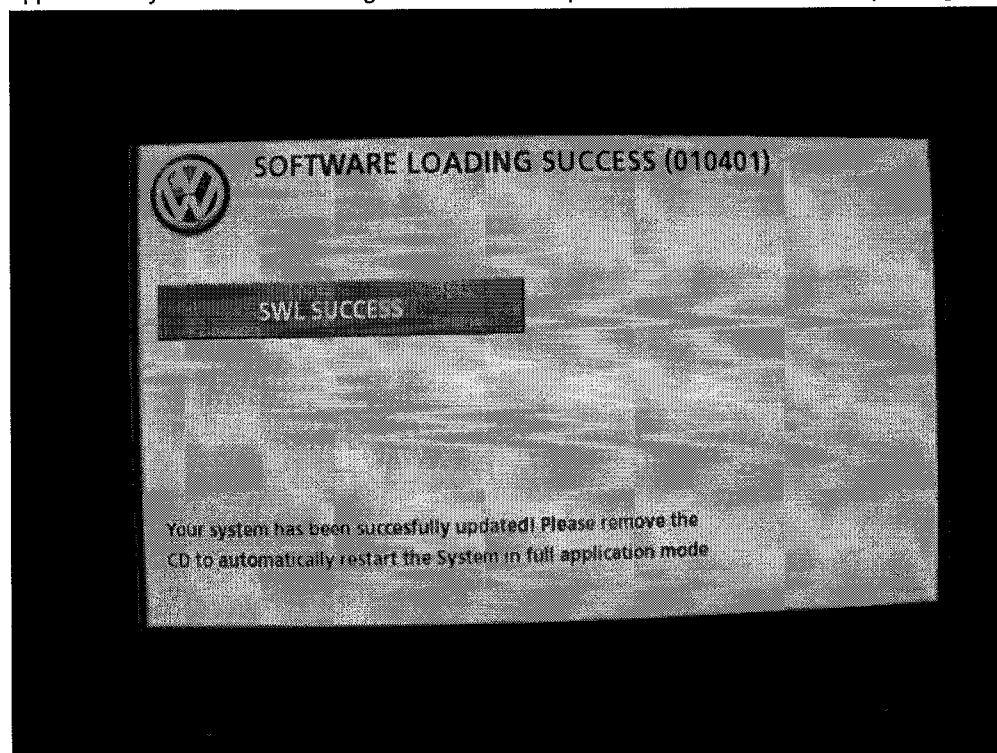


Figure 30

6. Once complete the CD will automatically be ejected and the "SWL SUCCESS" message will appear (see Figure 30)
7. Remove the CD completely. The screen will go blank
8. Allow the system to restart; this may require the ON/OFF button to be pressed (see Figure 16). The restart will be complete after two minutes
9. A software version management target/actual comparison is now required to complete the download operation
10. Connect the VAS 5052A vehicle diagnostic computer to the vehicle. As an SVM is required the Bluetooth connection is not recommended
11. Insert the key into the ignition switch and turn on the ignition

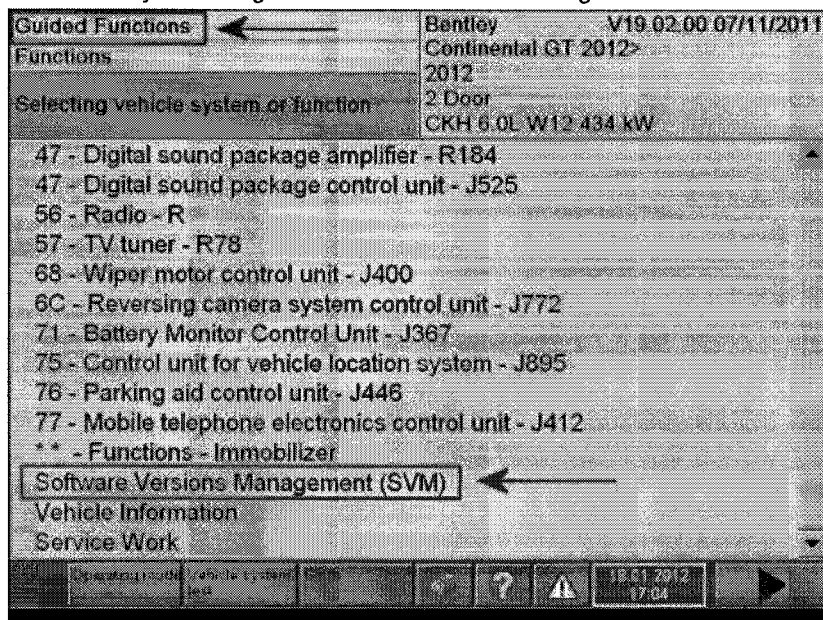


Figure 31

12. With the VAS 5052A connected to the vehicle select *Software Version Management (SVM)* within Guided Functions (see Figure 31)
13. In *Selecting vehicle system or function* select *SVM – Target / Actual comparison*

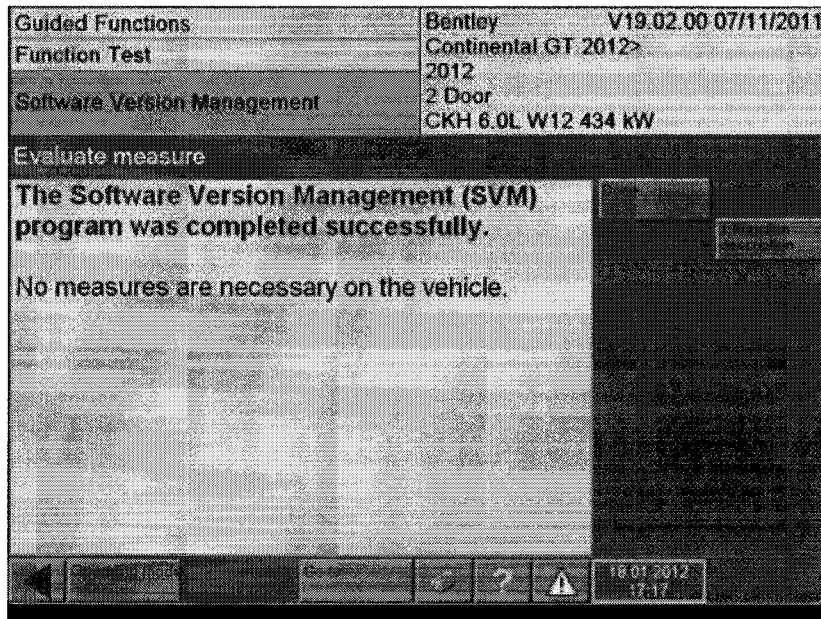


Figure 32

14. Ensure your on – line Broadband connection is maintained. Your Global User Sign on will be required to complete the Target / Actual comparison, follow the on screen prompts to complete the operation
15. On completion clear any related fault codes via Guided Fault Finding

Warranty accounting instructions

Cars that **DO NOT** require a software down load:

Warranty Type	110 and 910
Labour Operation Code	01290006
Damage Service Number	44 06
Damage Code	02 02
Damage Location	B01
Time	60 TU

Cars that **DO** require software down load :

Warranty Type	110 and 910
Labour Operation Code	01290014
Damage Service Number	44 06
Damage Code	02 02
Damage Location	B01
Time	140 TU

Parts information

Part Number	Description	Vehicle Build Region
WT 10309.02.2012	Infotainment and Navigation unit update disc	North America Region (NAR)
WT 10310.02.2012	Infotainment and Navigation unit update disc	Europe and Rest Of World (EU/ROW)
WT 10311.02.2012	Infotainment and Navigation unit update disc	China
WT10312.02.2012	Infotainment and Navigation unit update disc	Japan