MITSUBISHI FUSO TRUCK OF AMERICA, Inc.

Group: **13-00**
**FUEL AND ENGINE CONTROL**

# SERVICE INFORMATION BULLETIN





## SUBJECT:
Introduction of the Idle Limiting System

## POTENTIALLY AFFECTED MODELS:
2012 M/Y and newer FEC52, FEC72, FEC92, and FGB72 Canter vehicles

## DESCRIPTION:
An idle limiting system can be enabled which will limit the amount of time a vehicle can remain parked with the engine running. With this system enabled, a warning time limit and a shut down time limit will be set in the EEC. When the warning time limit is reached, the driver will be alerted by an audible alarm. Once the shut down time limit has been reached, the system will shut down the engine. The system can be programmed to function with or without the parking brake applied. Engine operating temperature must reach at least 160°F (71°C) for this system to become active. The attached instructions will guide technicians through programming and enabling this system. When complete, affix an ILS label as shown below.

**IMPORTANT!** Fuso Diagnostics version FDS-R13-1.2 or later must be installed to program and enable this system.

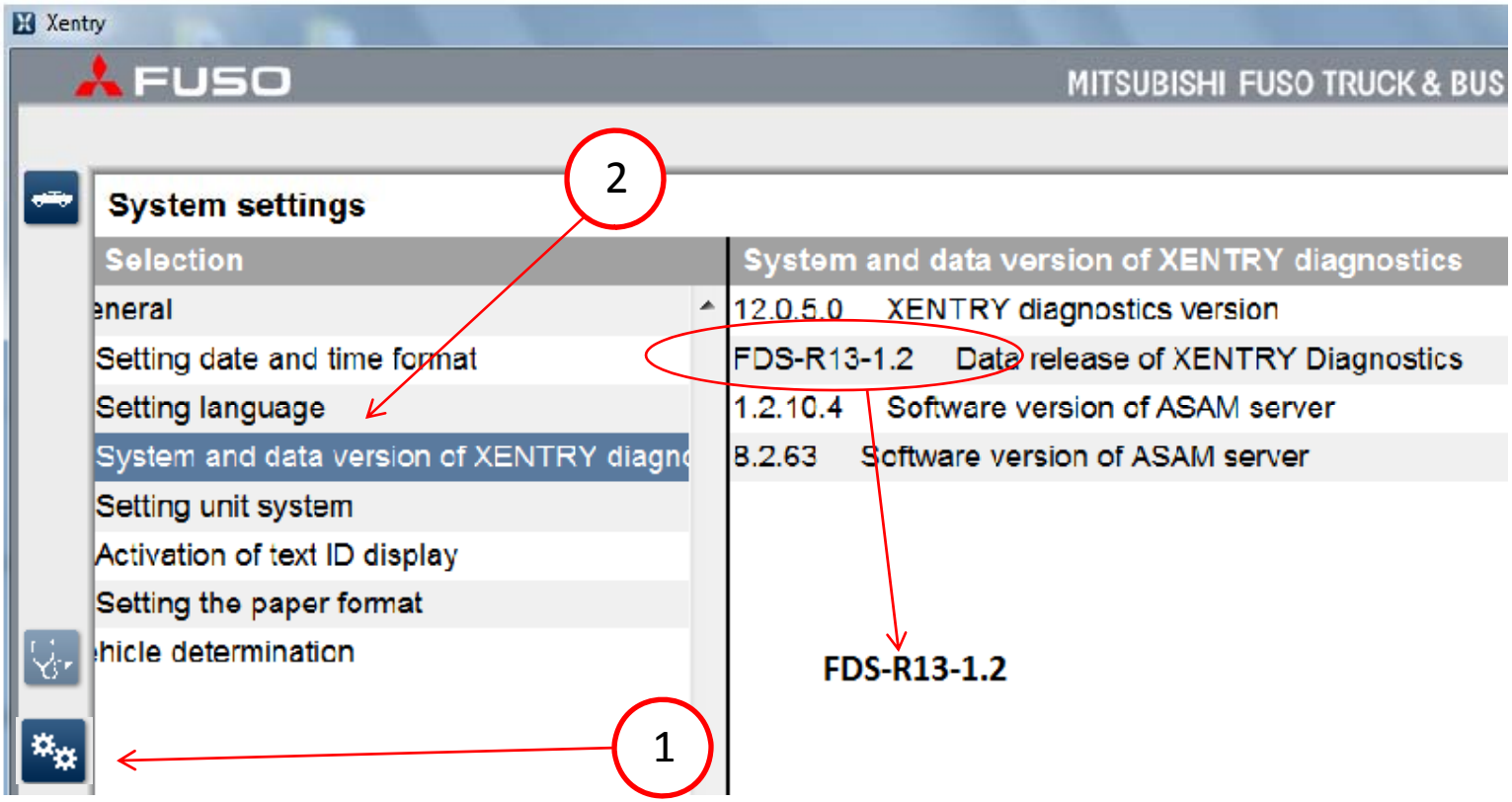

Please initial and route to the following personnel before filing.

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Service Mgr. | | Warranty Mgr. | | Service Technicians - Initial in boxes below. | | | | | | | | |
| Shop Foreman | | Parts Mgr. | | | | | | | | | | |

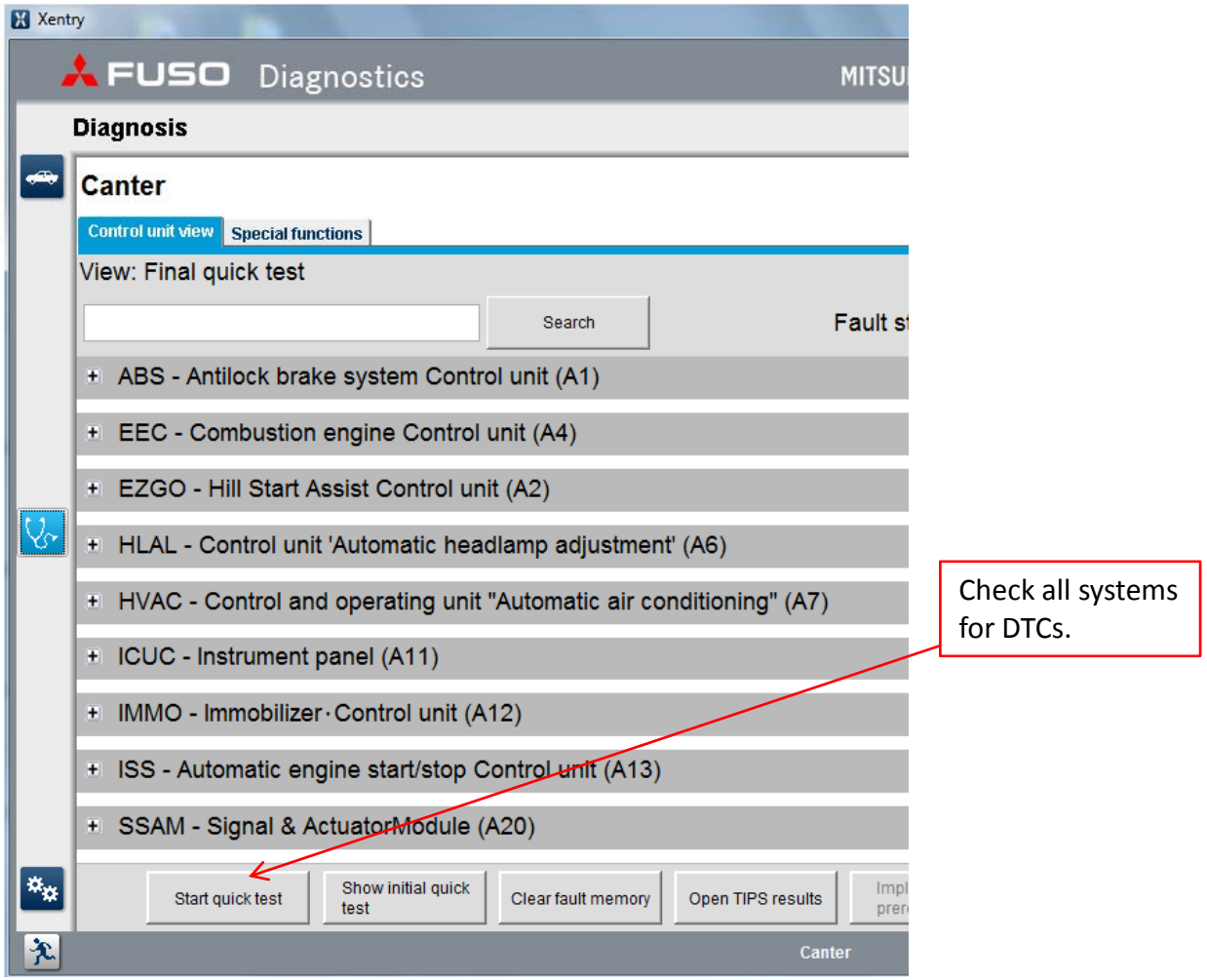
# Idle Limiting System

Note: Before starting any reprogramming, make sure that Fuso Diagnostics (FD) and the vehicle's batteries are fully charged.

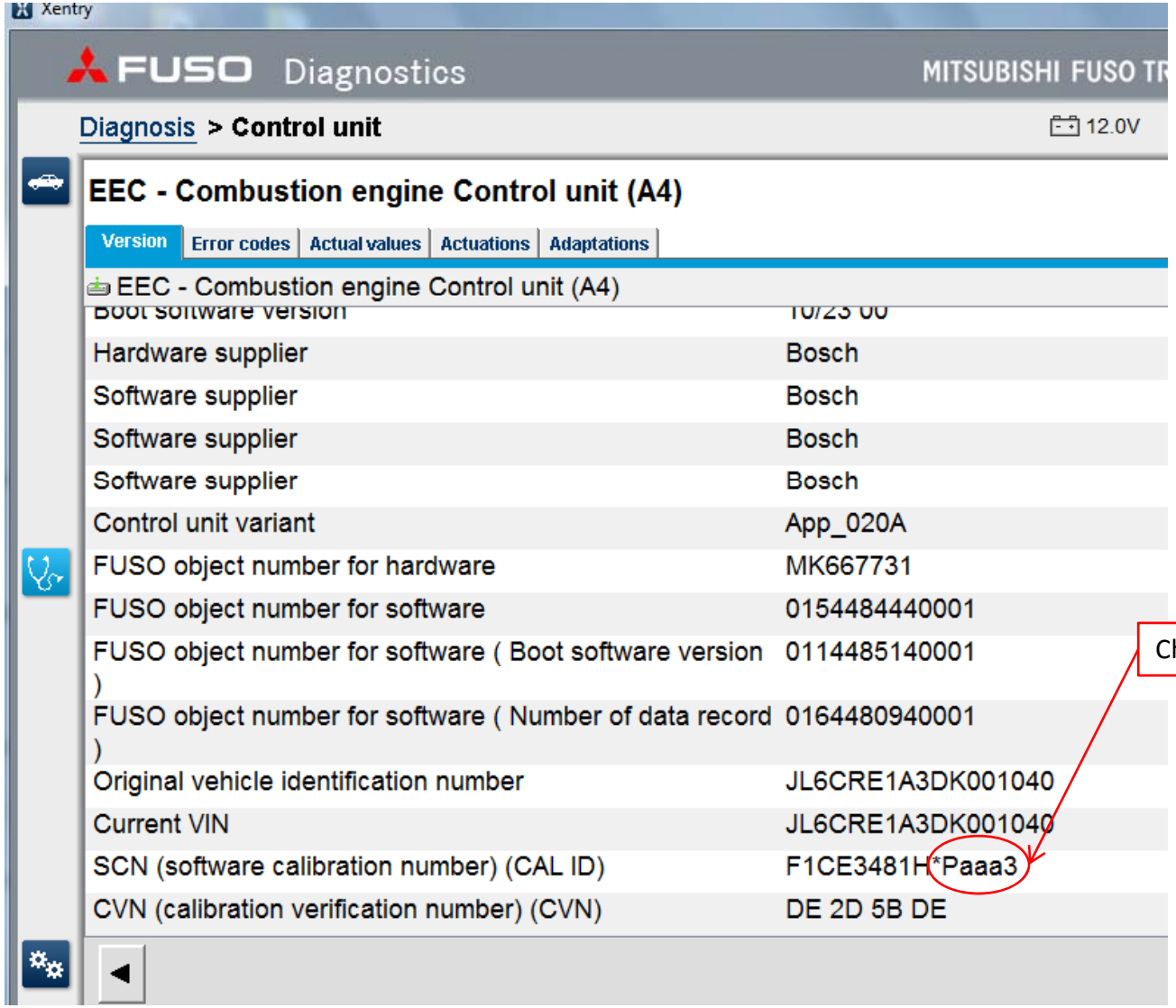
1 - Connect FD to the vehicle. Check the version of the XENTRY diagnostic program to ensure that version ***FDS-R13-1.2 or higher*** is installed. Click the Gear icon (1). Click System and data version of Xentry diagnostics (2). Check for Version  FDS-R13-1.2 or higher.



2. Start the program and then navigate to the home screen which shows all the vehicle's control units. Perform a **"Quick Test"** on the vehicle's Electronic Control Units (ECU) . It is not advisable to reprogram any ECU with Diagnostic Trouble Codes (DTC) present in the system.



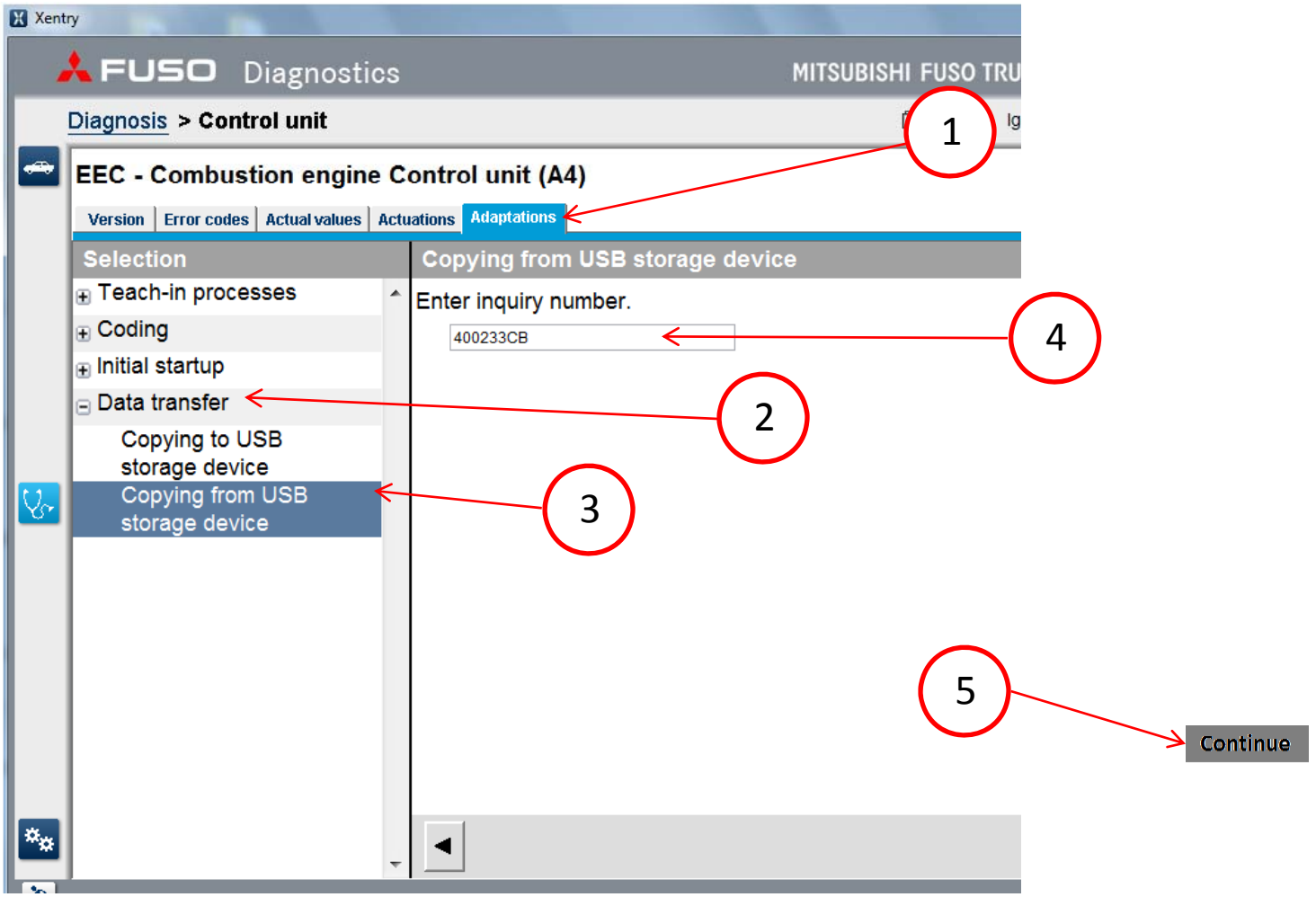
3. Open the **EEC (Electronic Engine Control)** & check the Software version on the vehicle's EEC – it must be Paaa4 to enable the Idle Limiting System. If it is not, follow the steps to reprogram the EEC.



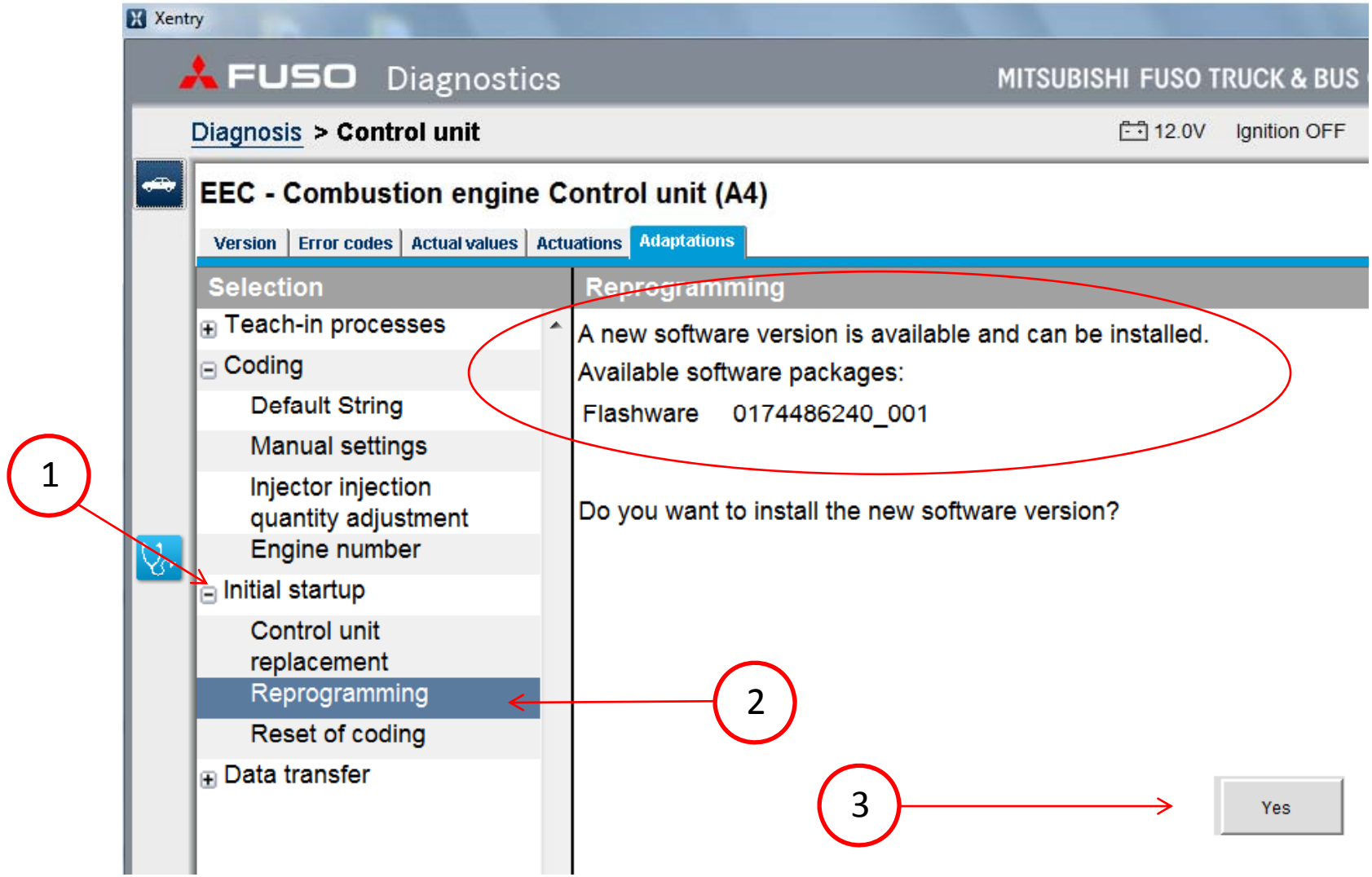
4. If the vehicle's software needs to be upgraded, follow the Reprogramming steps below.

5. Download an inquiry number and password from MFTBC's EOL website for the EEC. Load the file to a USB memory device.

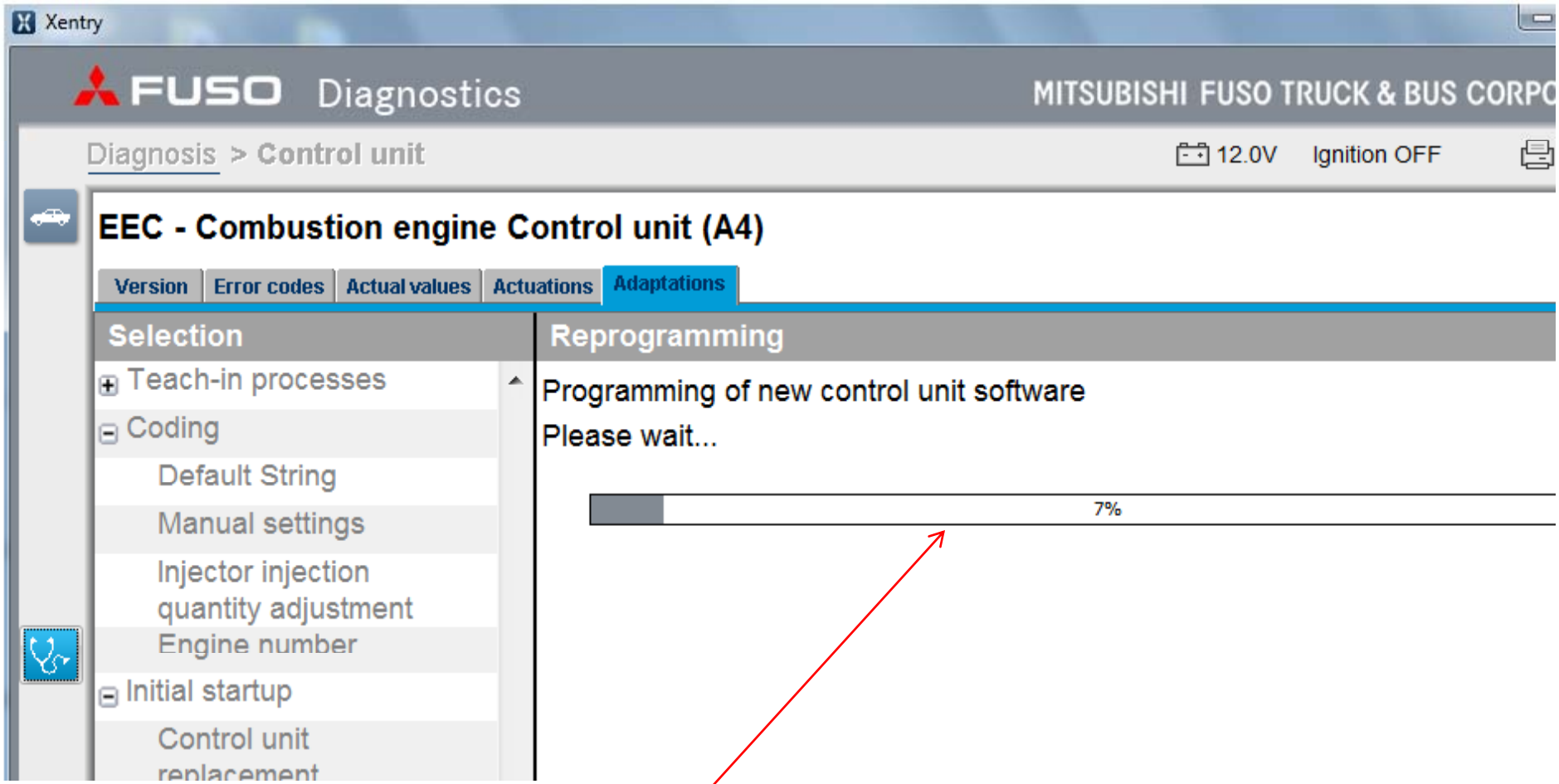
6. Connect the USB memory device to the FD computer. Follow steps below. 1. Click **Adaptations** 2. Click **"Data transfer"**. (3) Click **"Copying from USB storage device"**. (4) Enter the **Inquiry numbe**r. (5) Click **Continue**.



7. When the file has successfully transferred, (1) Open the + symbol next to Initial startup. (2) Click Reprogramming. The screen will display that **“A new software version is available and can be installed.”**(3) Click Yes, when prompted - Enter the Inquiry number and Password.

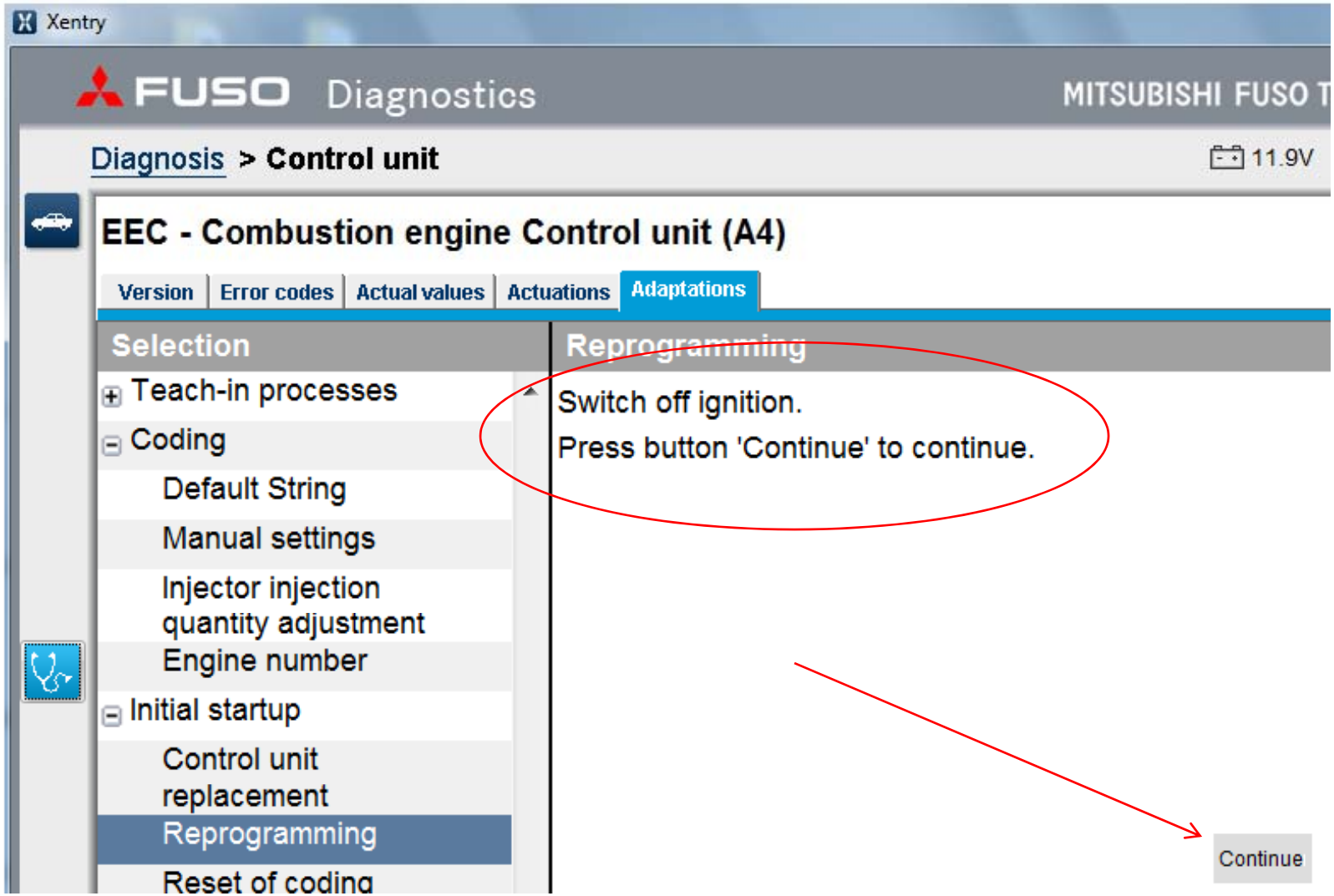


8. As the program is loading, a status bar will be displayed.

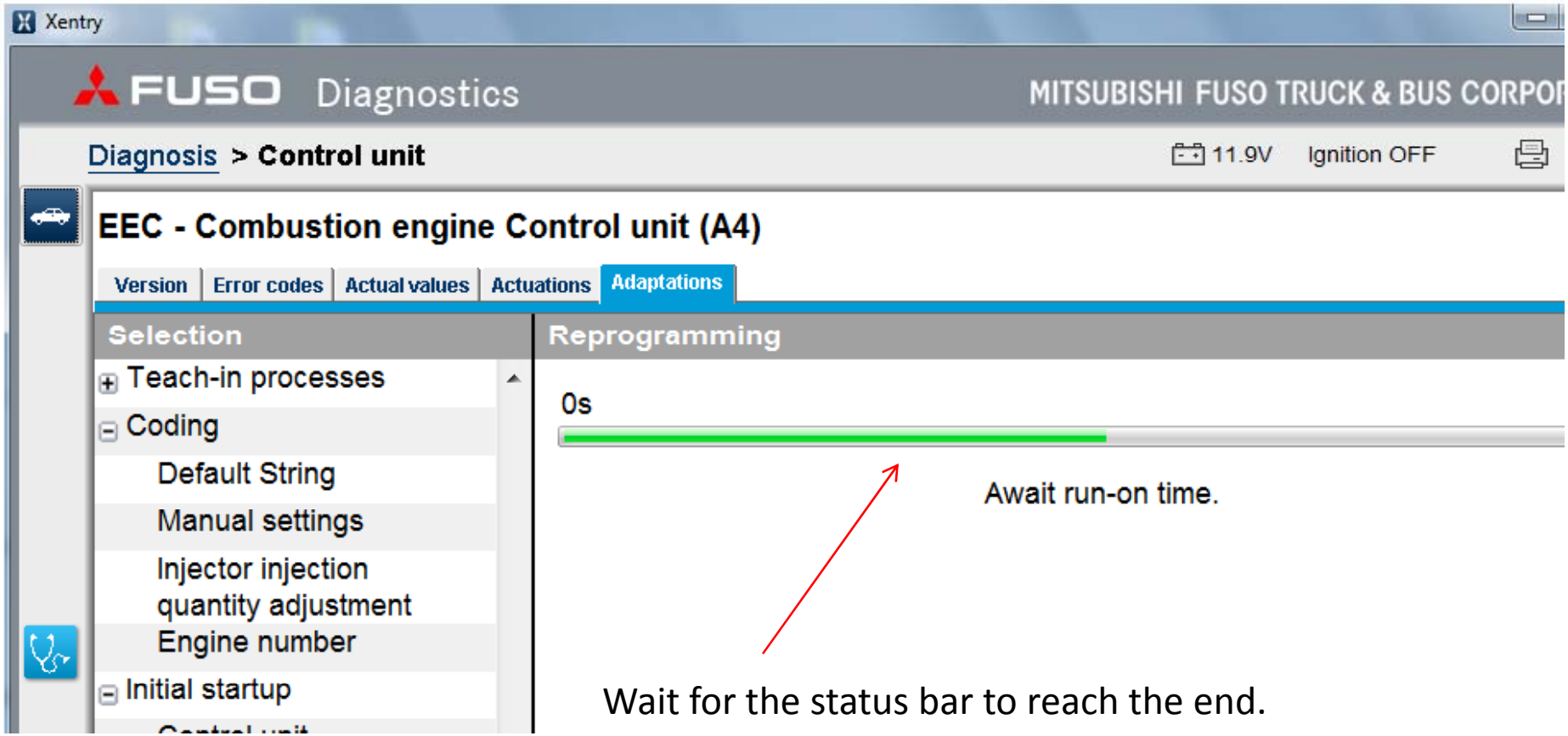



Wait for the program to load. The status will reach 100% when complete.

9. When this portion of the reprogramming finishes, you are prompted to turn the starter switch OFF and click **Continue**.

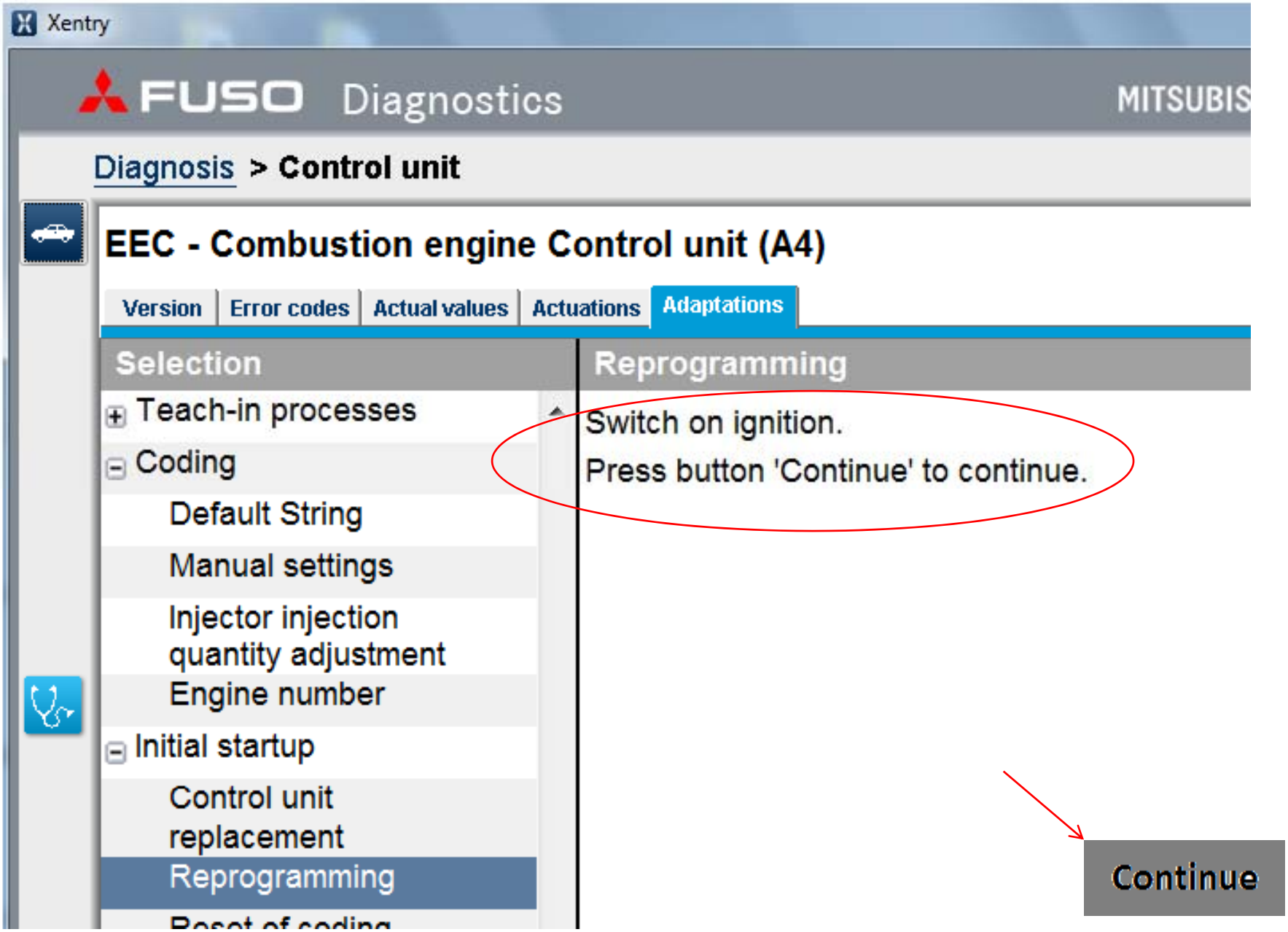


9. More of the new program is loaded with the starter switch in the OFF position.

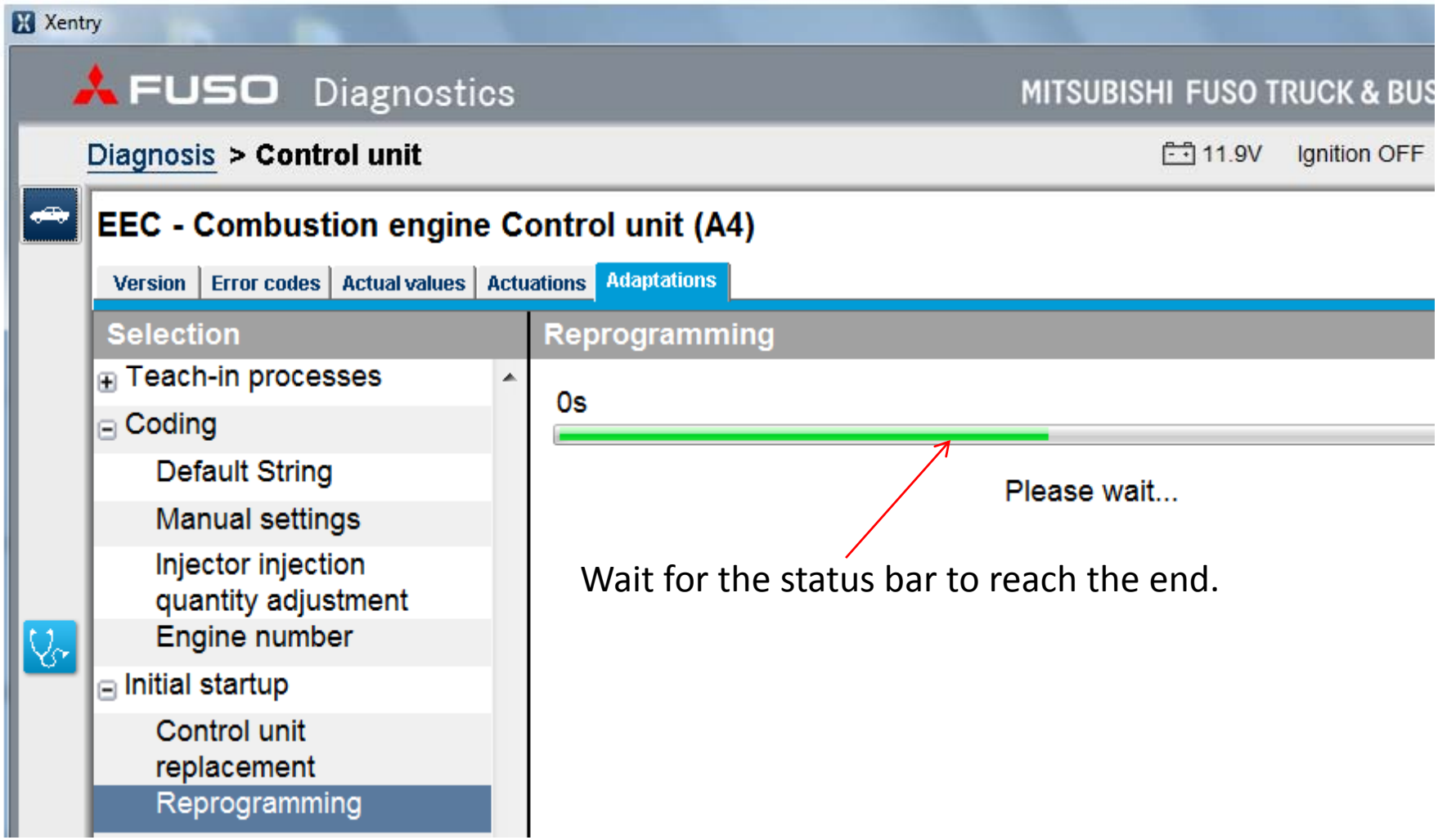



Wait for the status bar to reach the end.

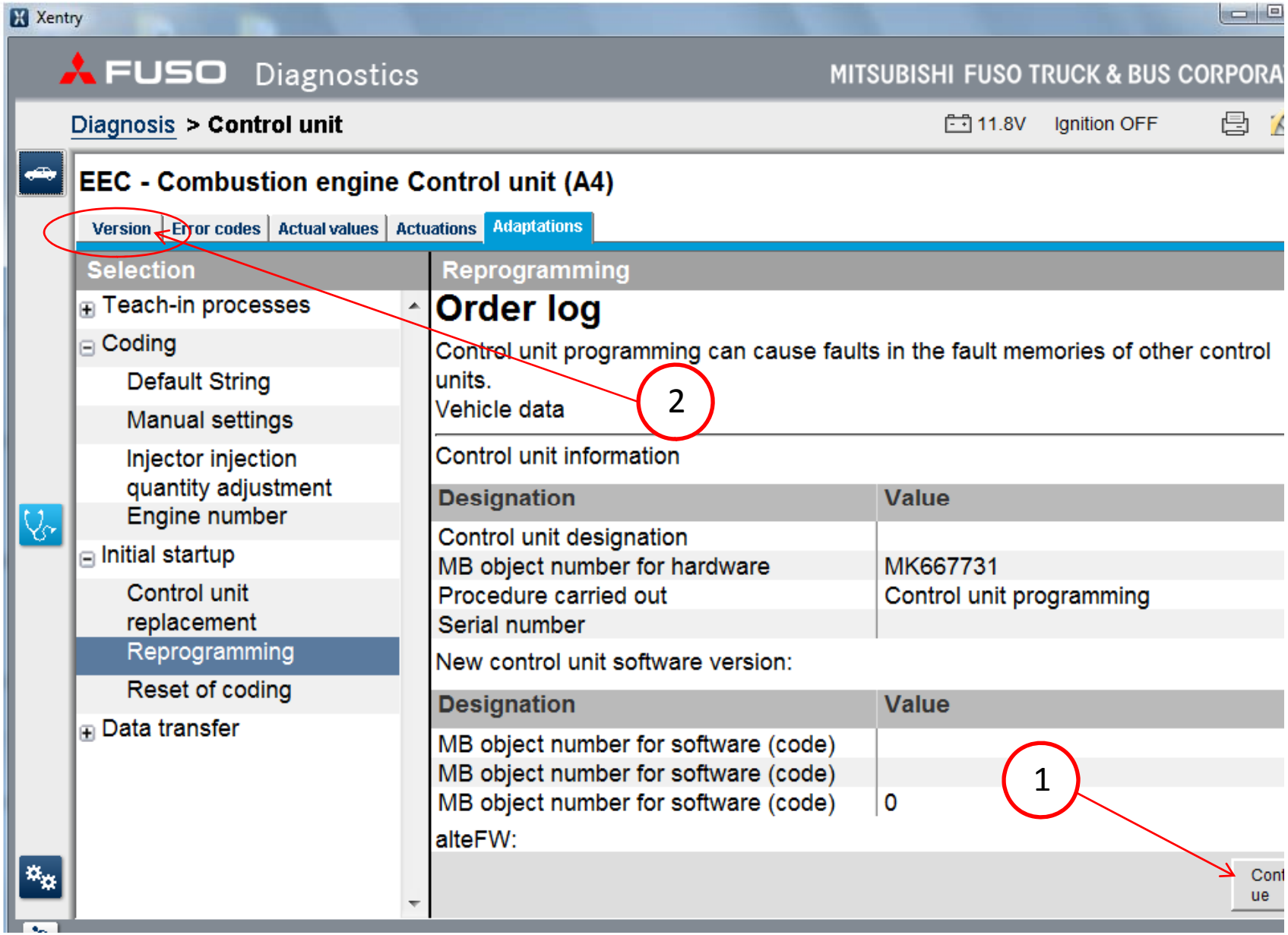
10. Turn the starter switch to ON, click **Continue**.



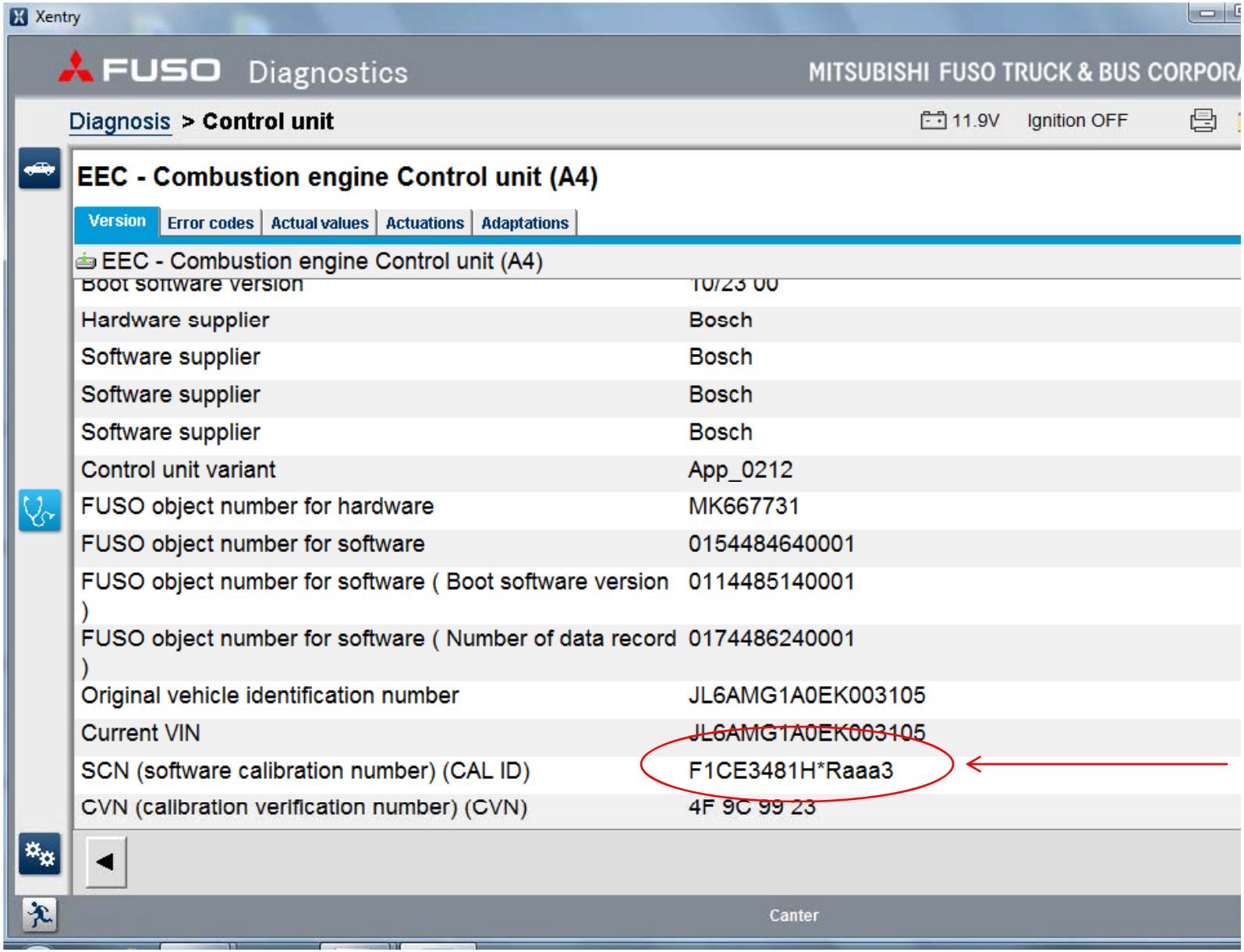
11. As the program loads, a progress bar is displayed.



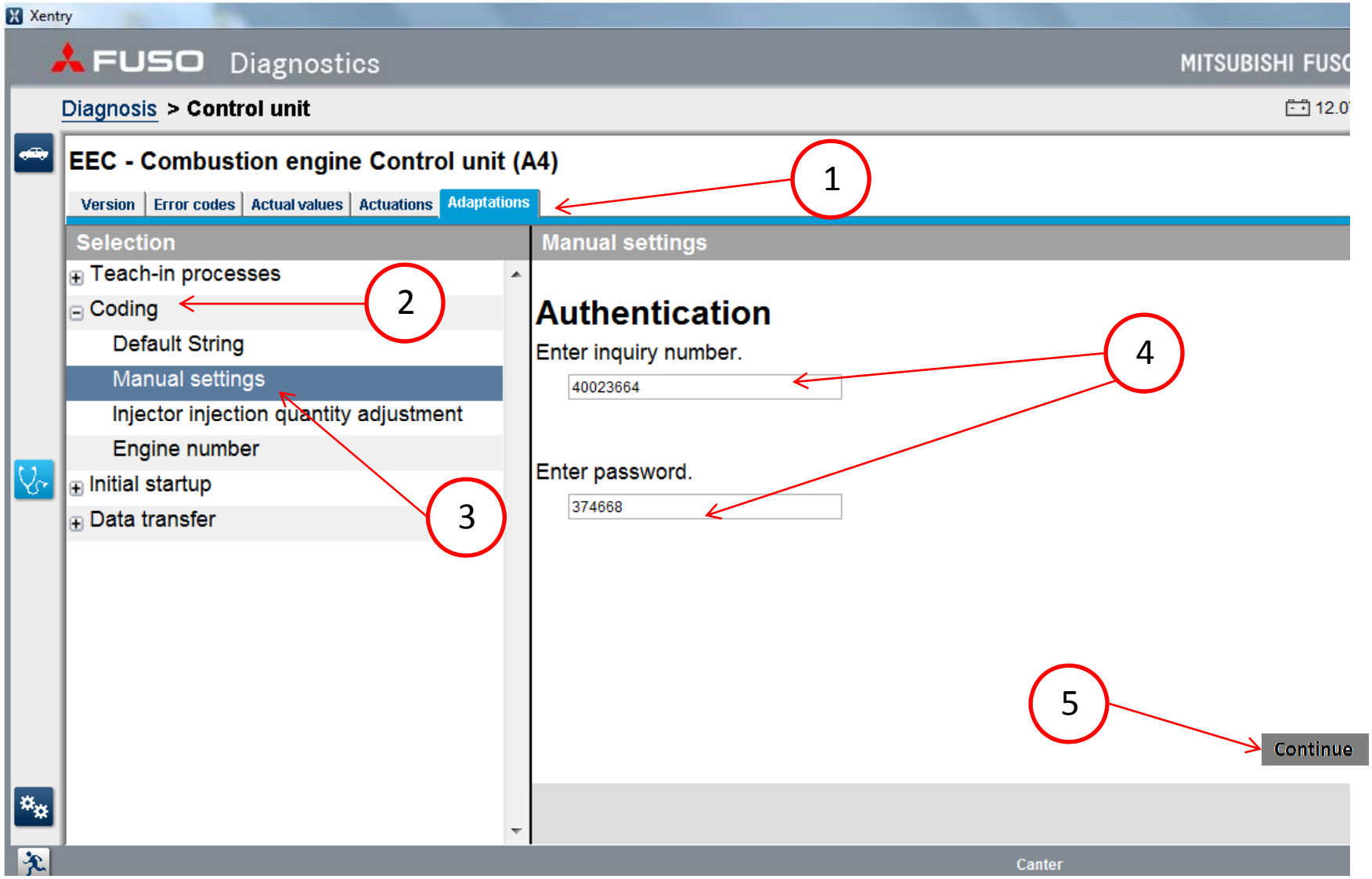
12. When the **Order log** screen is displayed, (1)Click **Continue**, and (2) click the **Version** tab.



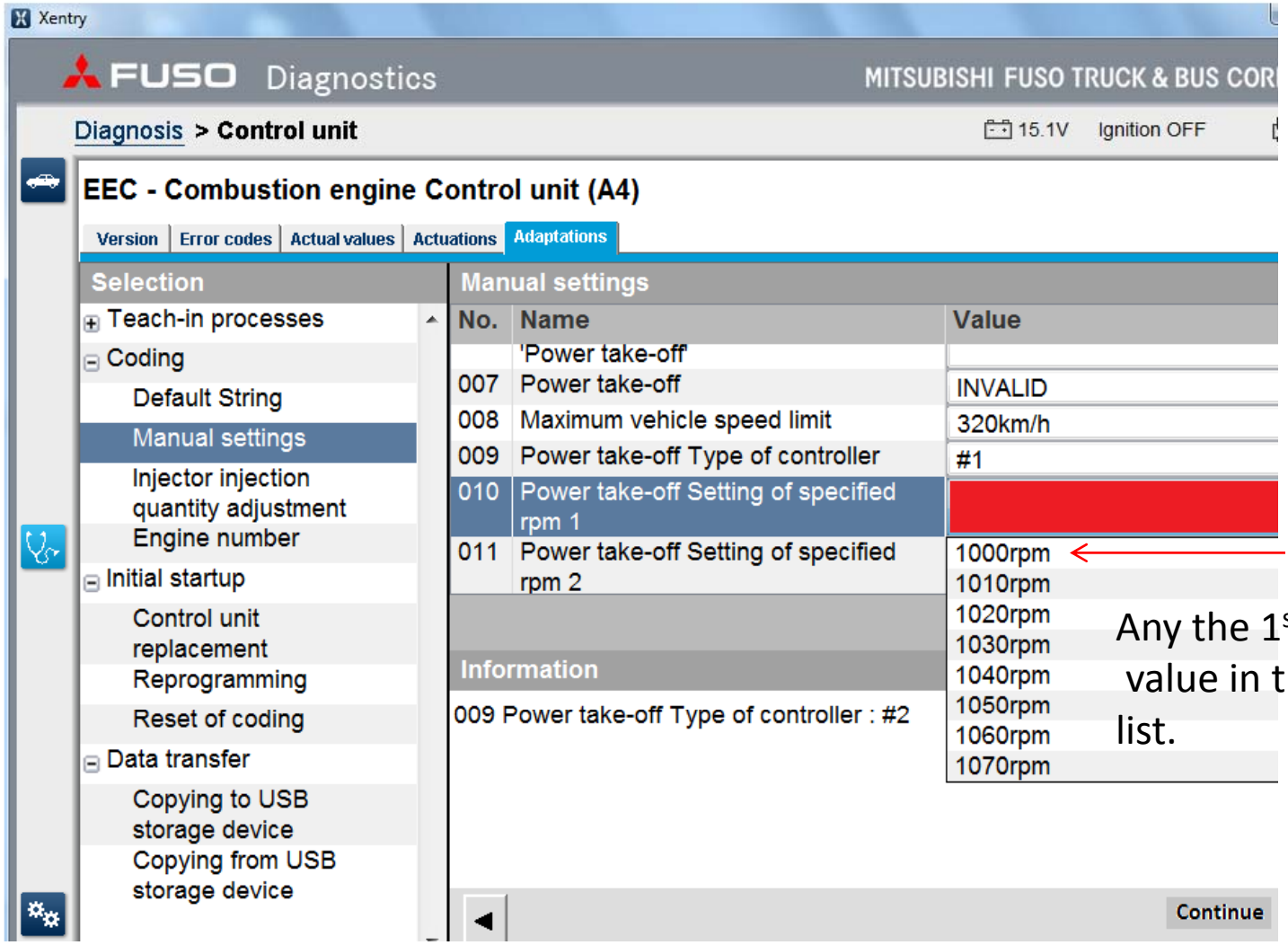
13. Check the calibration numbers. Turn the starter switch to the OFF position. Wait at least one minute for the ECU to complete its after run process.



14. Turn the starter switch to the ON position. Navigate to the **EEC** menu. (1) Click on the **Adaptations** tab. (2) Click Coding. (3) Click Manual settings. (4) Enter the Inquiry number & password. (5) Click Continue.

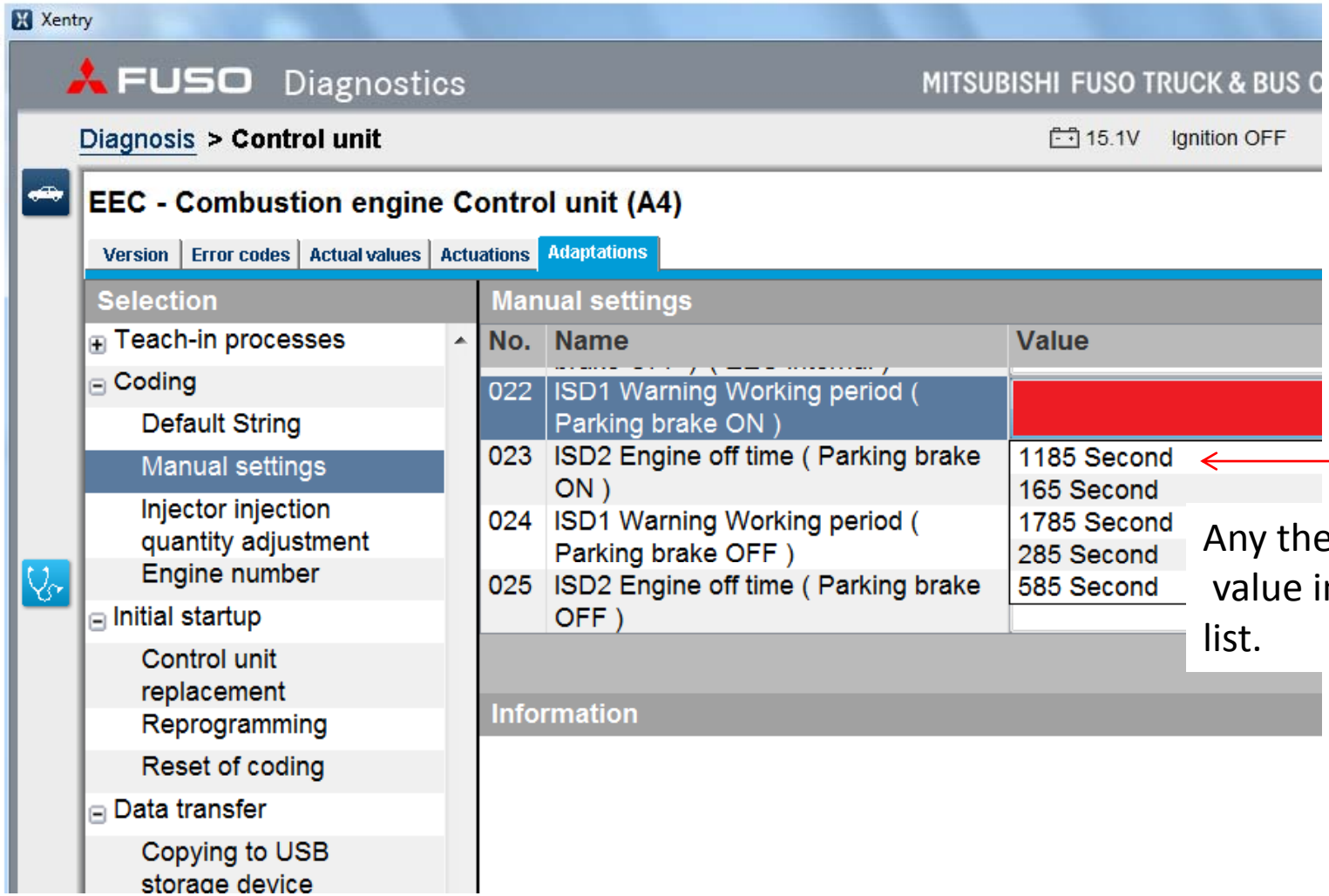


15. Open the **“Manual settings”** list and scroll down. If an item in the list is found to be red, change the item to the first item that appears in the drop down box. Check all items in the list (see the following page), changing the items that appear in red.

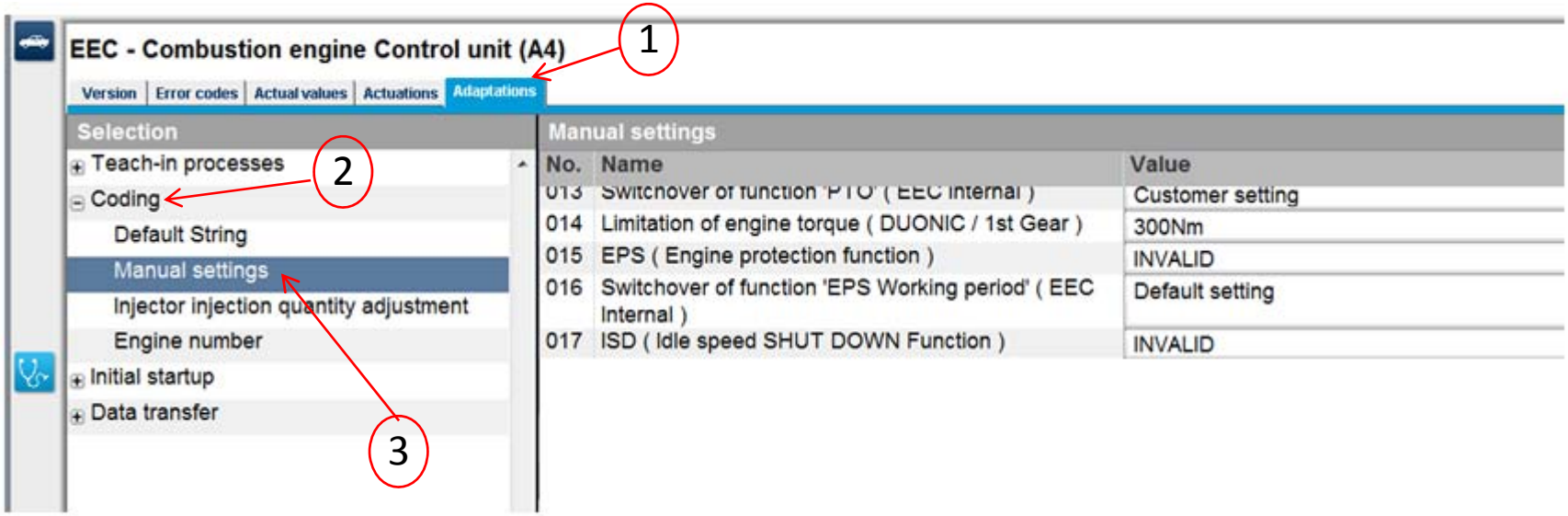



Any the 1st value in the list.

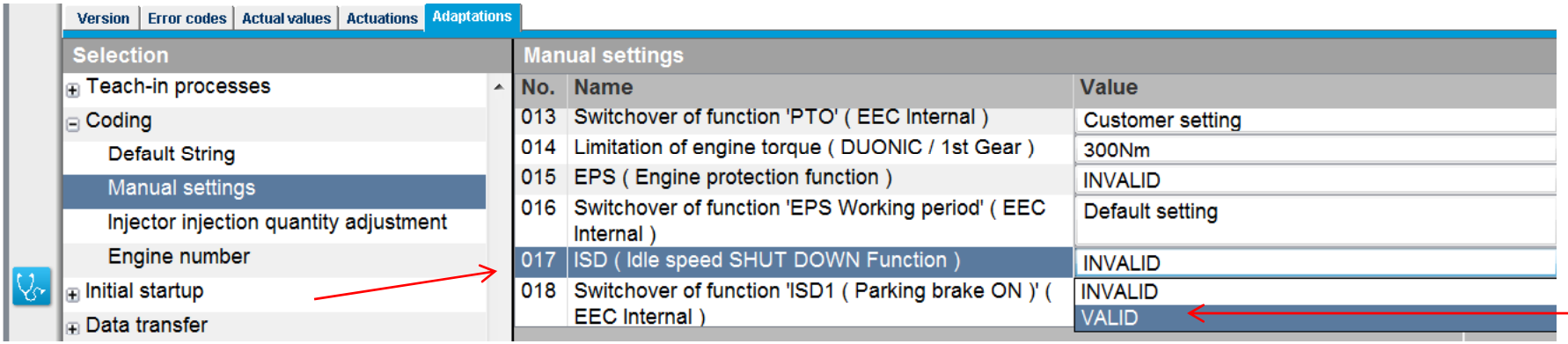
16. Items #022, 023, 024, & 025 may also be red. Change them by dropping down the selection box and choosing the 1st listed value. When all of the items that show a red value have been changed, click apply changes. When the programming completes, click the version tab. When the information appears on the version screen, turn the starter switch to the Lock position for at least one minute to let the EEC complete its after run procedure.



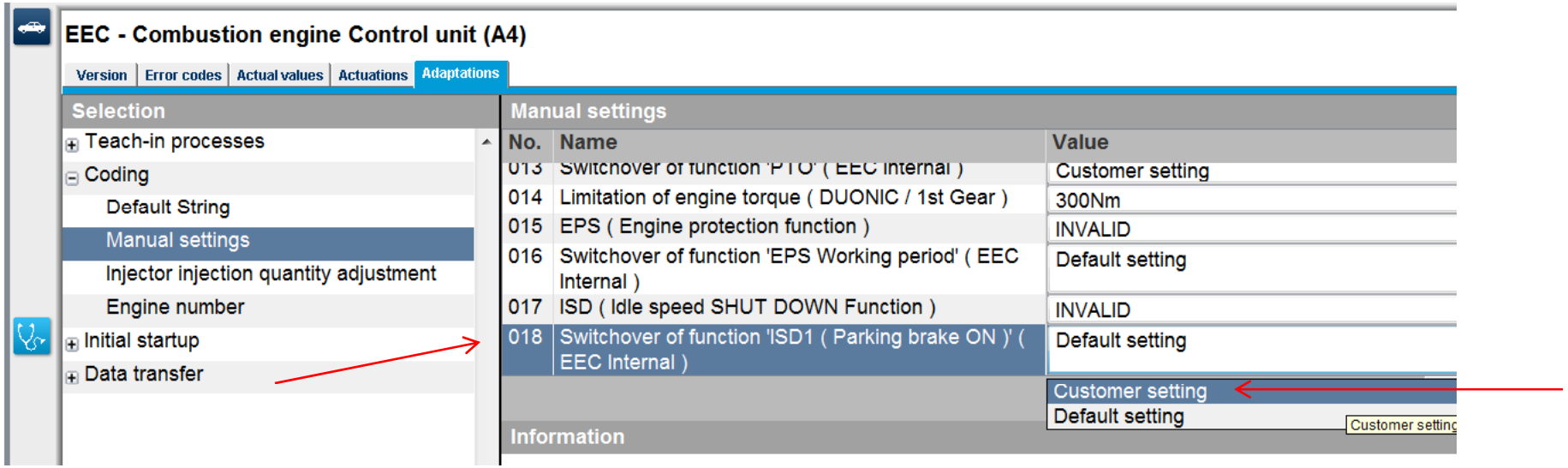
17. Turn the starter switch to the ON position. Navigate back to the EEC program. (1) Click on the **Adaptations** tab. (2) Click **“Coding”**, (3) click the **“Manual settings”**. When prompted, enter the **Inquiry number** and **Password**.



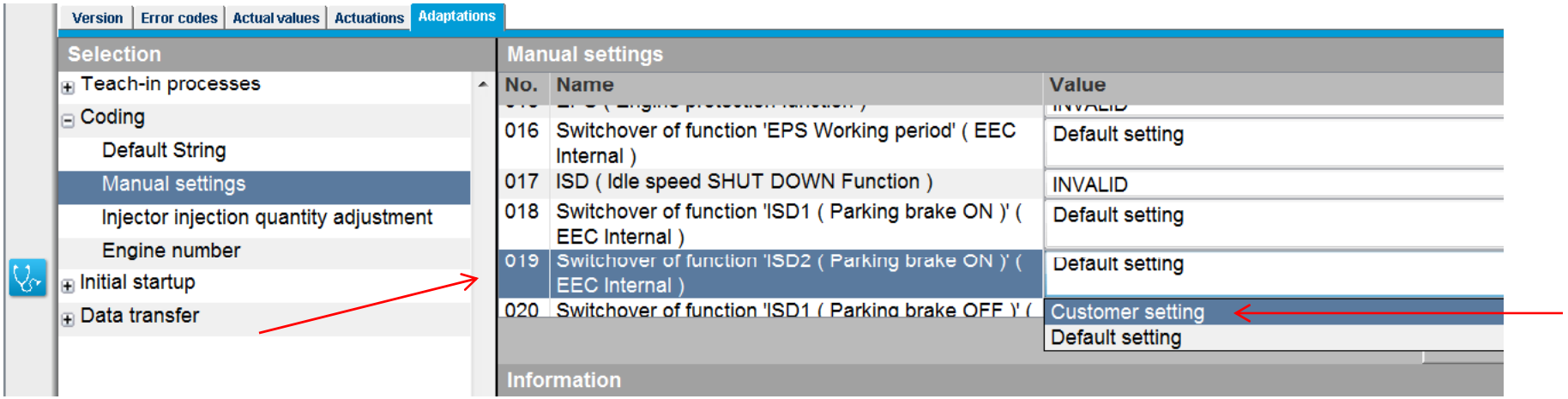
18. Change item #017 “**ISD (Idle speed SHUT DOWN Function)”** from “**INVALID** to **VALID”**.



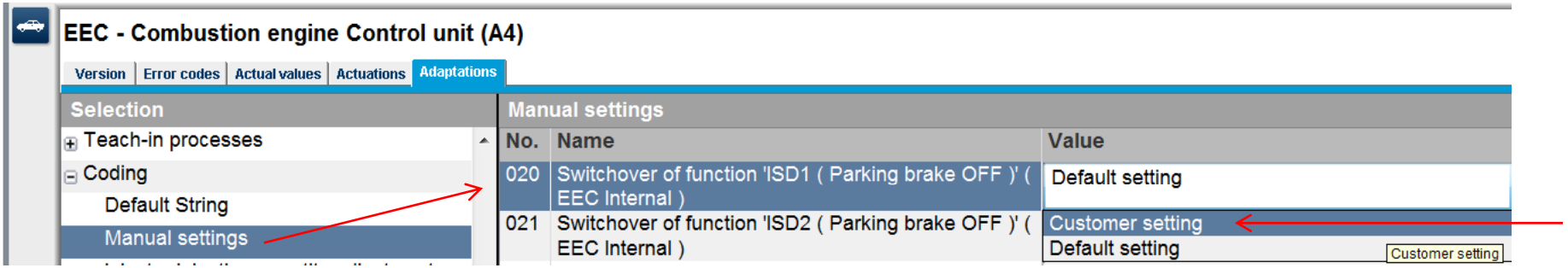

19. Change item #018 “**Switchover of function ‘ISD1(Parking brake ON)’ (EEC Internal)”** from **“Default setting”** to **“Customer setting”**.



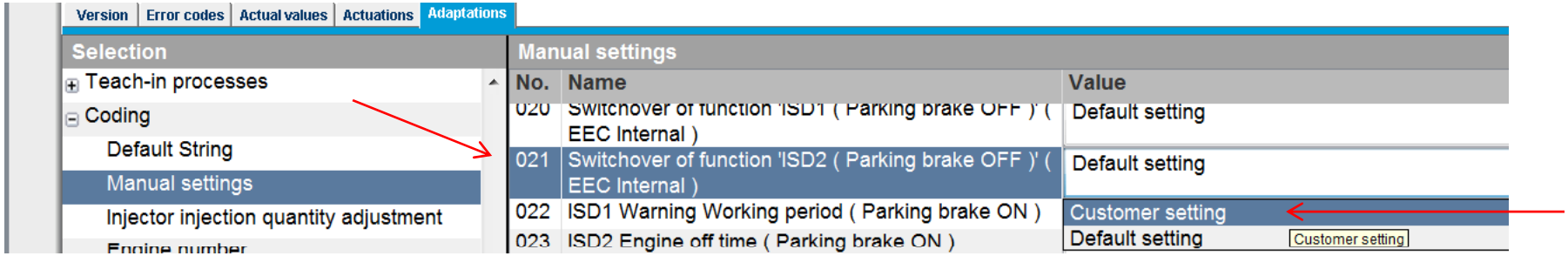
20. Change item #019 “**Switchover of function ‘ISD2(Parking brake ON)’ (EEC Internal)”** from **“Default setting”** to **“Customer setting”**.



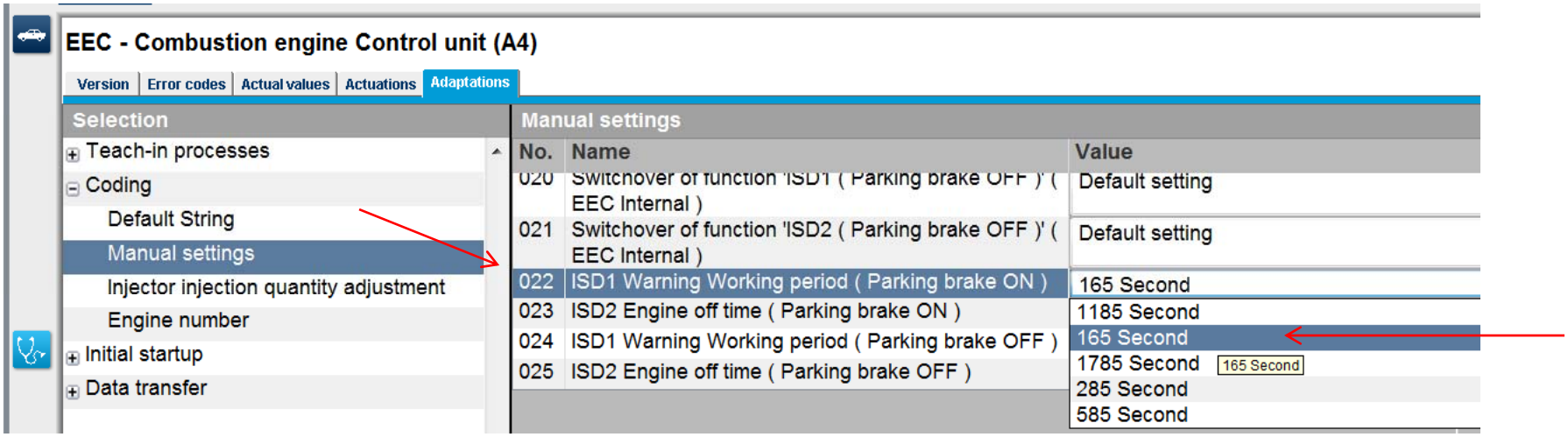

21. Change item #020 “**Switchover of function ‘ISD1(Parking brake OFF)’ (EEC Internal)”** from **“Default setting”** to **“Customer setting”**.



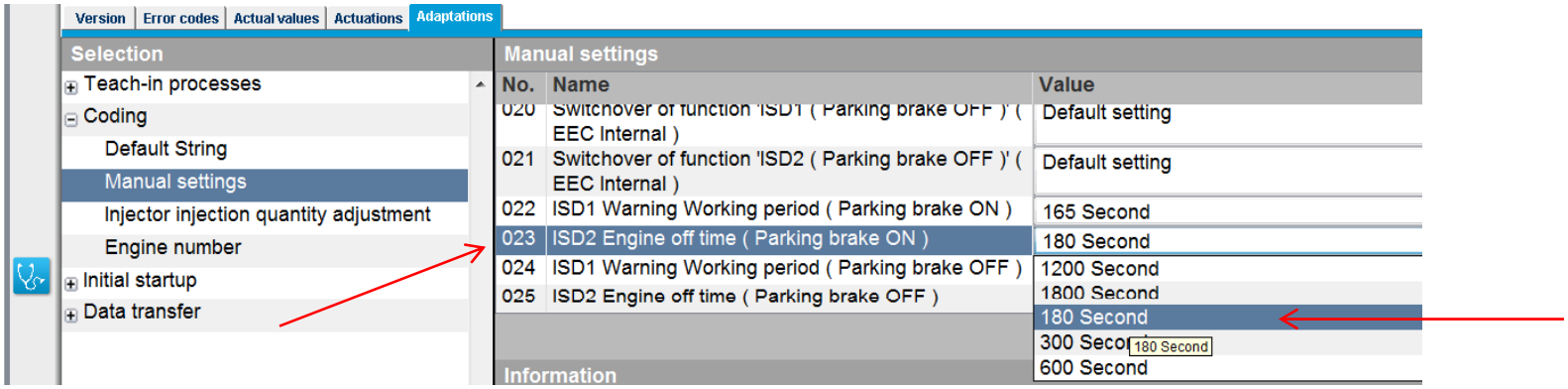
22. Change item #021 “**Switchover of function ‘ISD2(Parking brake OFF)’ (EEC Internal)”** from **“Default setting”** to **“Customer setting”**.



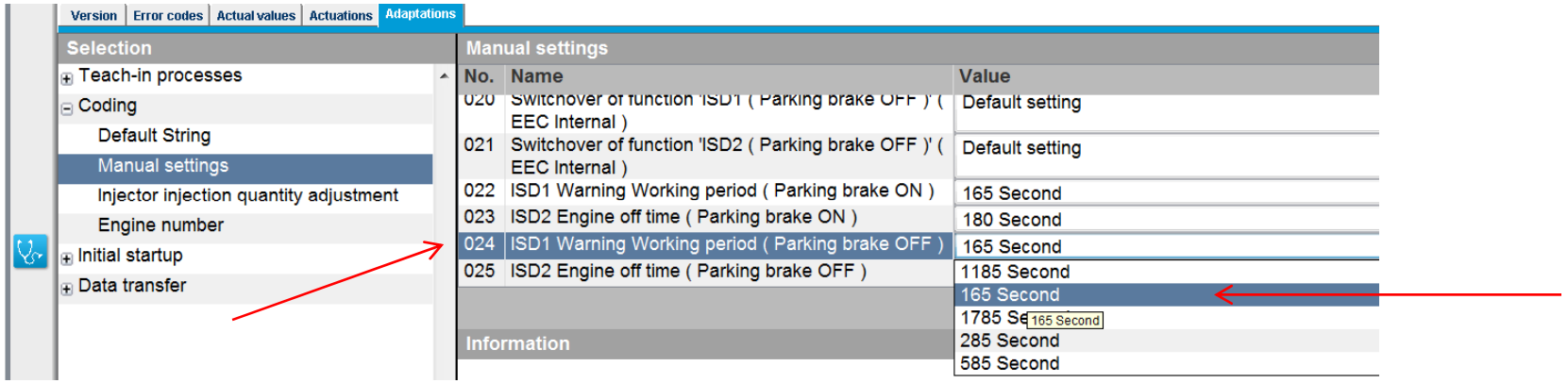

23. Change item #022 **“ISD2 Warning Working period(Parking brake On)”** to a setting desired. **NOTE 1185 Seconds = 19 minutes, 45 seconds, 165 Seconds = 2 minutes, 45 seconds, 1785 seconds = 29 minutes, 45 seconds, 285 seconds = 4 minutes, 45 seconds, 585 seconds = 9 minutes, 45 seconds**.



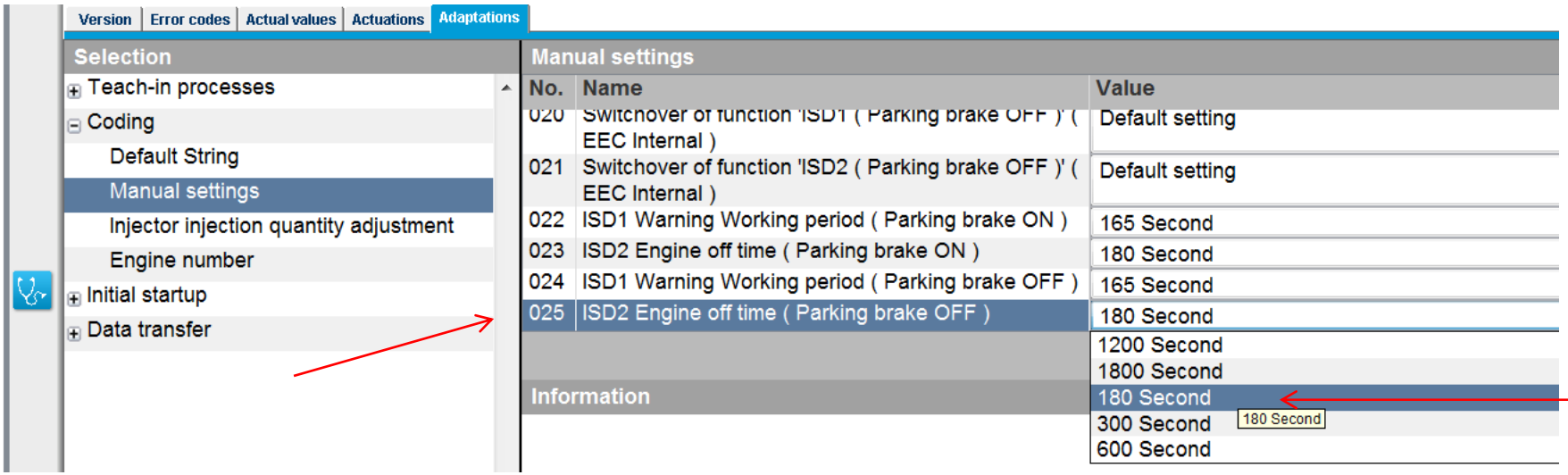
24. Change item #023 **“ISD2 Engine off time (Parking brake On)”** to a setting desired. **NOTE 1200 Seconds = 20 minutes, 1800 Seconds = 30 minutes, 180 seconds = 3 minutes, 300 seconds = 5 minutes, 600 seconds = 10 minutes**.



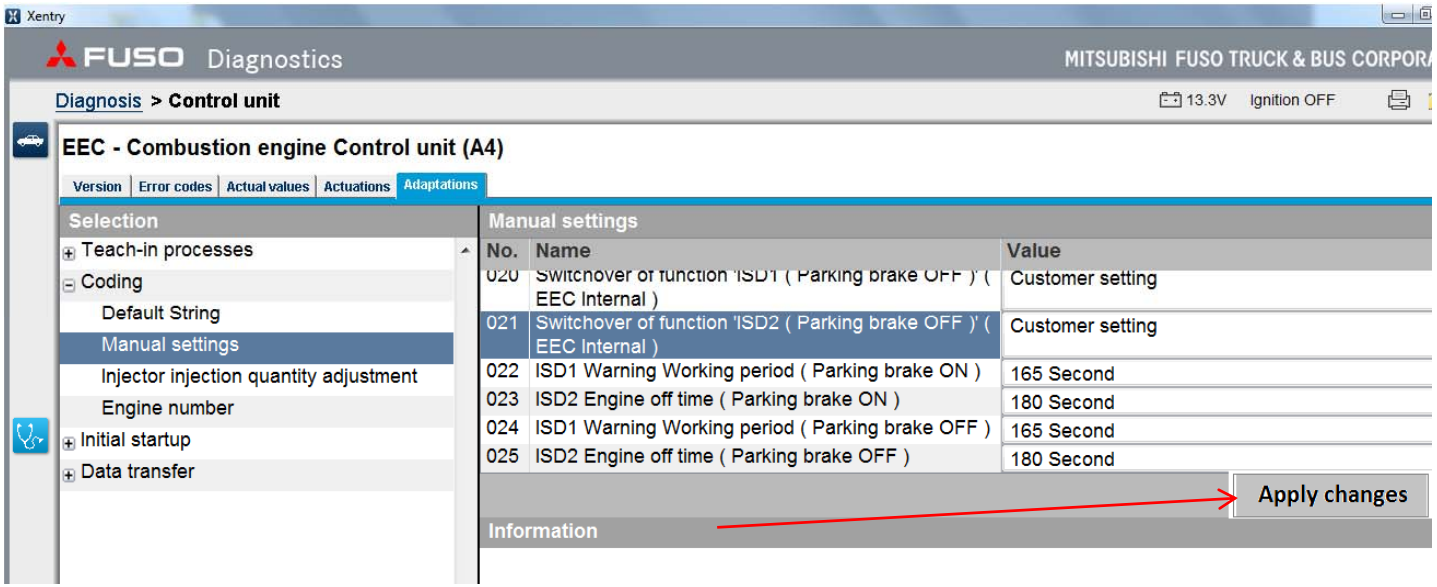

25. Change item #024 **“ISD1 Warning Working period(Parking brake On)”** to a setting desired. **NOTE 1185 Seconds = 19 minutes, 45 seconds, 165 Seconds = 2 minutes, 45 seconds, 1785 seconds = 29 minutes, 45 seconds, 285 seconds = 4 minutes, 45 seconds, 585 seconds = 9 minutes, 45 seconds**.



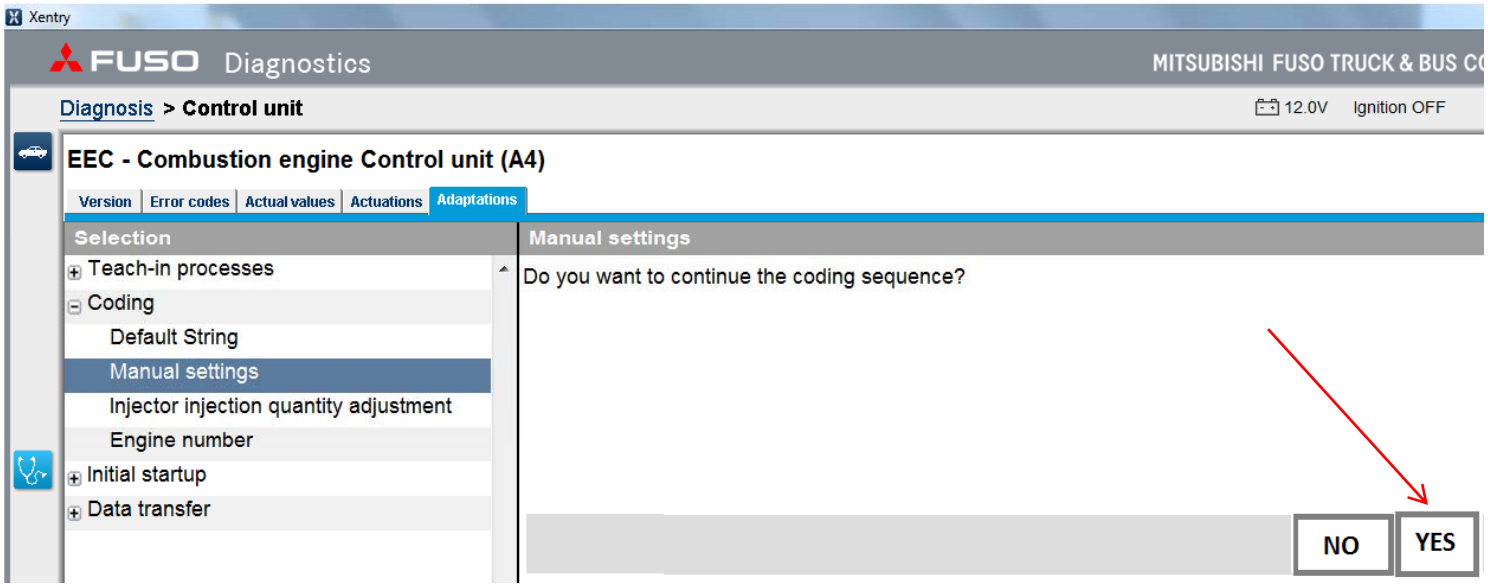
26. Change item #025 **“ISD2 Engine off time (Parking brake Off)”** to a setting desired. **NOTE 1200 Seconds = 20 minutes, 1800 Seconds = 30 minutes, 180 seconds = 3 minutes, 300 seconds = 5 minutes, 600 seconds = 10 minutes**.



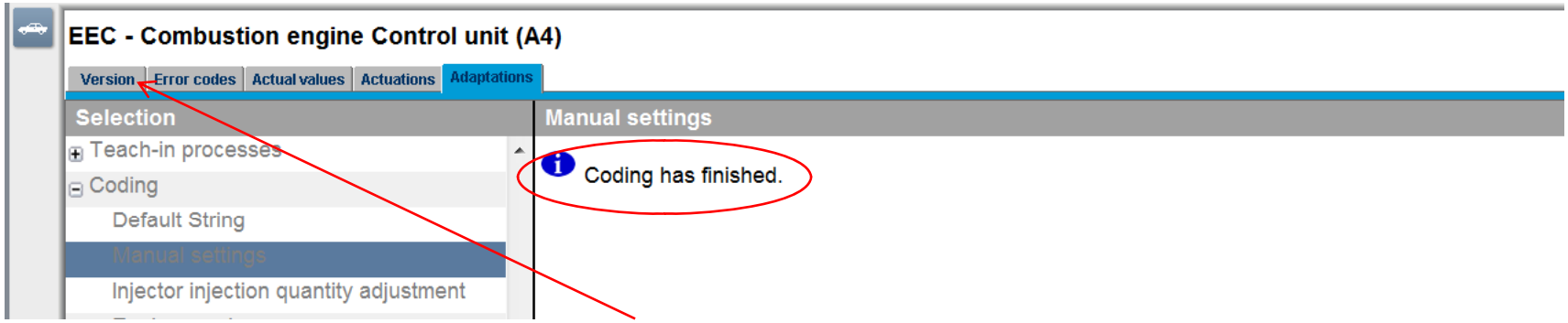
27. When all the values have been changed, click **“Apply changes”**.



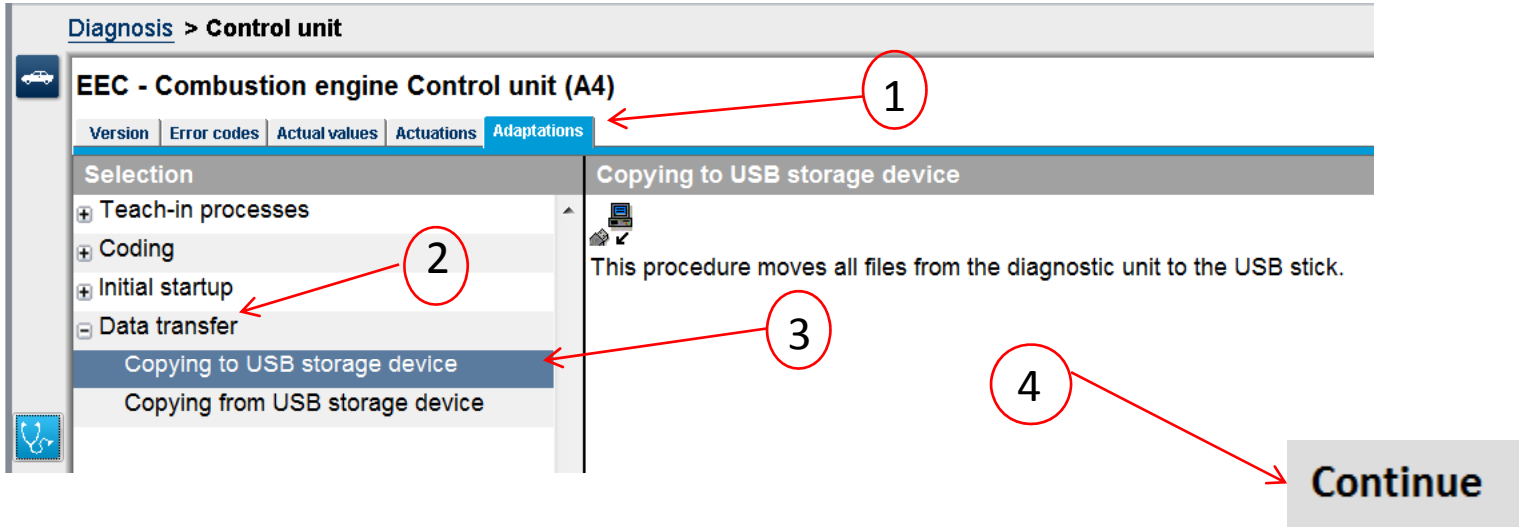

28. Click **YES** to apply the coding changes.



29. When "**Coding has finished"** appears, click the Version tab. When the information on the Version tab loads, turn the starter to the LOCK position. Allow the EEC to finish its after run. This can take one minute.

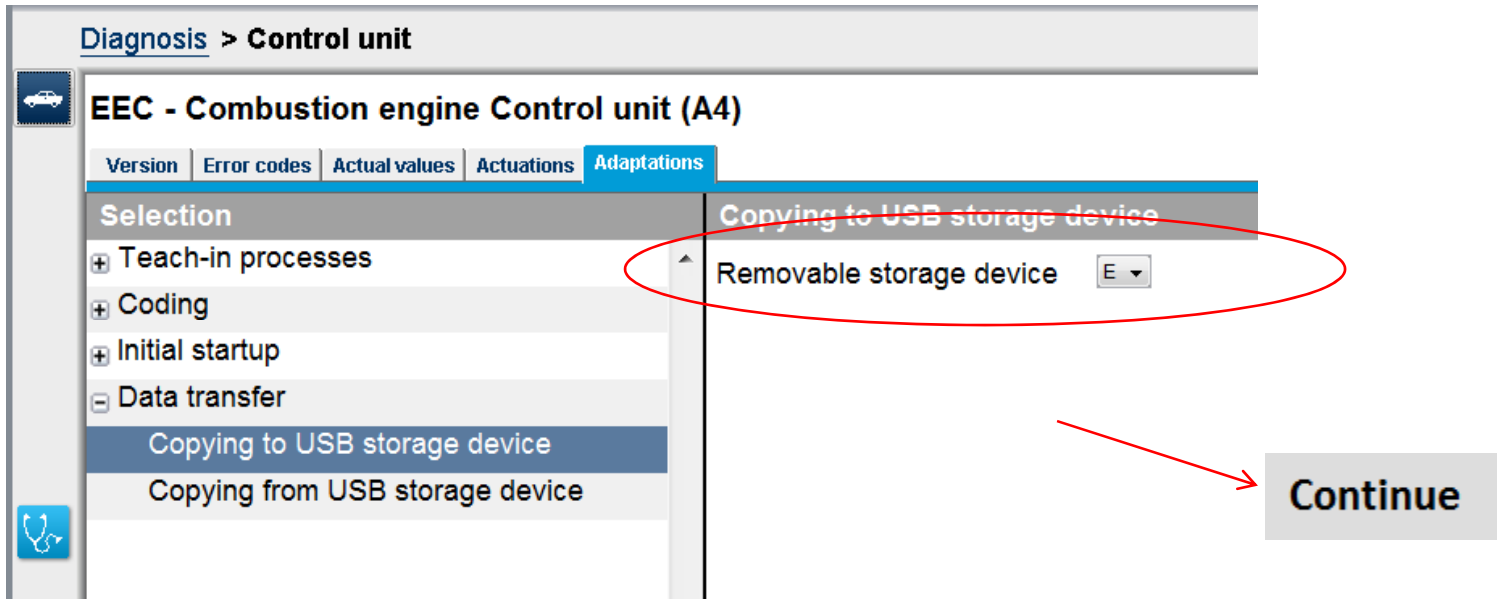


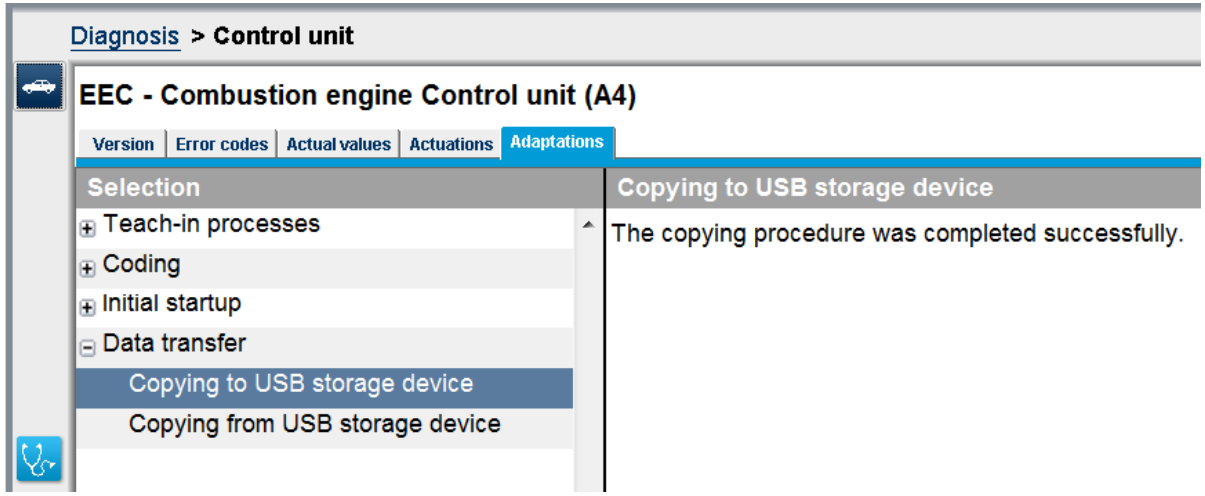

30. Turn the starter to the ON position. Navigate to the EEC program. Click **Adaptations**. Click **"Data transfer"**. Click Copying to USB storage device. Click **Continue**.




Note: In order to test the Idle Limiting System, the engine coolant temperature must first be raised to 160°F (71°C). When this is reached, check the timer settings that have been programmed.

31. The drive where the USB storage device is shown. Click **Continue**.




32. The history file containing the coding changes to the EEC is now on the USB storage device. It can be uploaded to the EOL website. NOTE: SEE Service Information Bulletin 14-005 for instructions for **UPLOADING A HISTORY FILE TO THE EOL WEBSITE**.