



Ferrari North America

Technical Information

Date: December 2020
Bulletin #: 2665
Campaign #: 459
Supersedes:
Section: 1

Subject: Firmware update for Portofino exhaust silencer actuators

Please note that it is necessary to install a firmware update for vehicles from Assembly No. **143566** to Assembly No. **170066** (from VIN No. **225397** to VIN No. **249969**) to improve the self-acquisition of the parameters of the exhaust silencer actuators on the aforementioned model.

The list of these vehicles may be viewed directly from the New Modis portal, by selecting the section "Recall and Service Campaign Management" and entering the campaign number indicated.

The following equipment is required to perform this update (Fig.1):

- A. SBS Feintechnik ATS tester;
- B. USB pen drive;
- C. Tester-silencer connector wiring harness;
- D. Stabilized 12v power supply/voltage generator.





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- IMPORTANT -

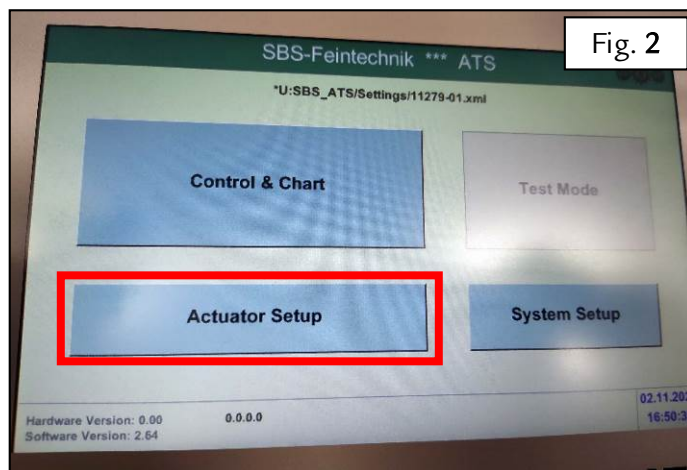
Ferrari will provide some dealerships with a kit containing the SBS Feintechnik ATS tester (A) and the connector wiring harness (C) necessary for the procedure. The USB drive (B) and the stabilized 12v power supply/voltage generator (D) are not included in this kit.

If you do not receive a kit with the update tool, contact your Area Business Manager or Technicalsupport_FNA@Ferrari.com and we will help put you in contact with a local Authorized Ferrari Dealership that can send you the tool. If the tool is damaged while in your possession then you will be charged \$7500 for a new tool.

Configuring the SBS Feintechnik ATS tester

Before performing the actual procedure, the tester must be configured as indicated below.

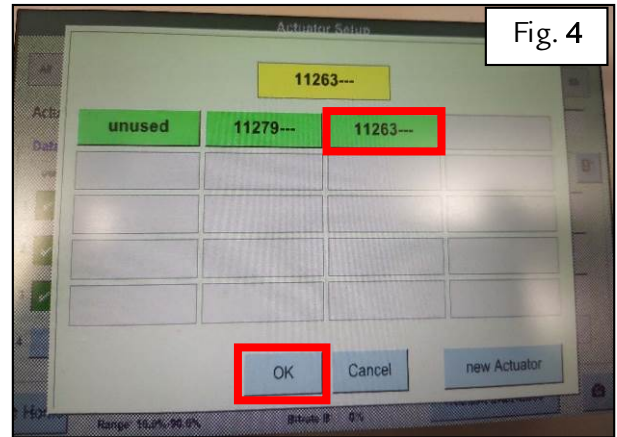
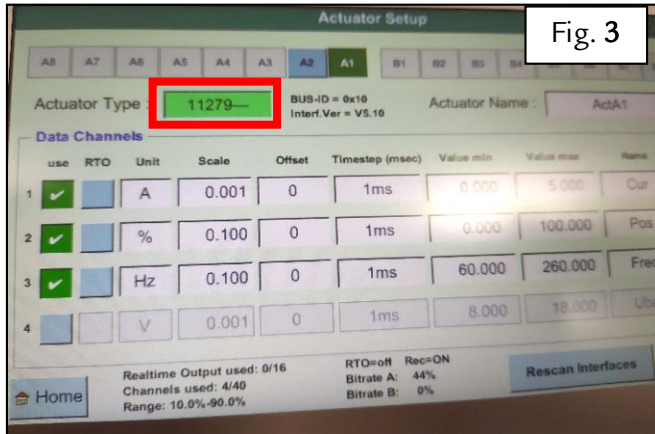
- Press the **Actuator Setup** button – Fig.2.



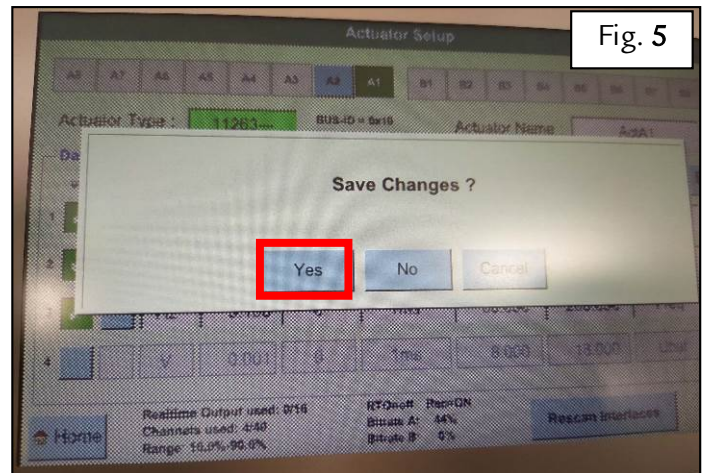


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- Select the green area next to “Actuator Type”, select “11263---” and press OK – Fig.3 and 4.



- Press the “HOME” button and then confirm you want to save the settings by pressing “Yes” – Fig.5.





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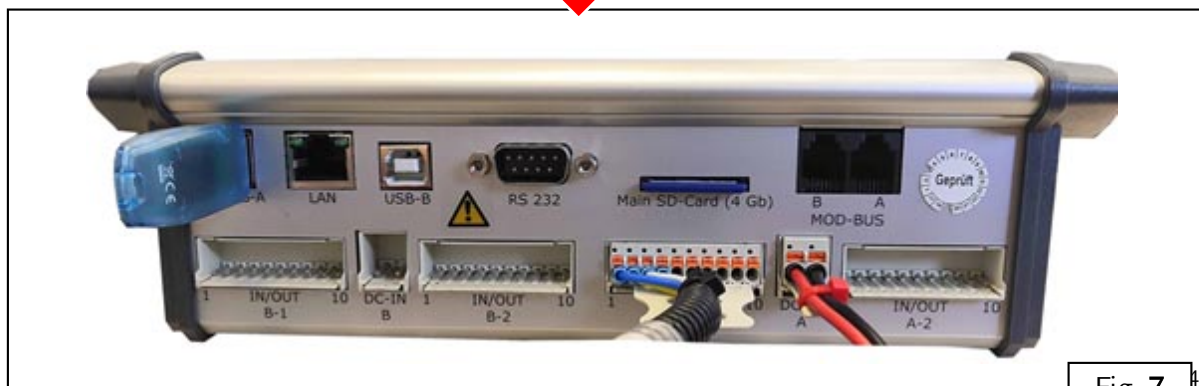
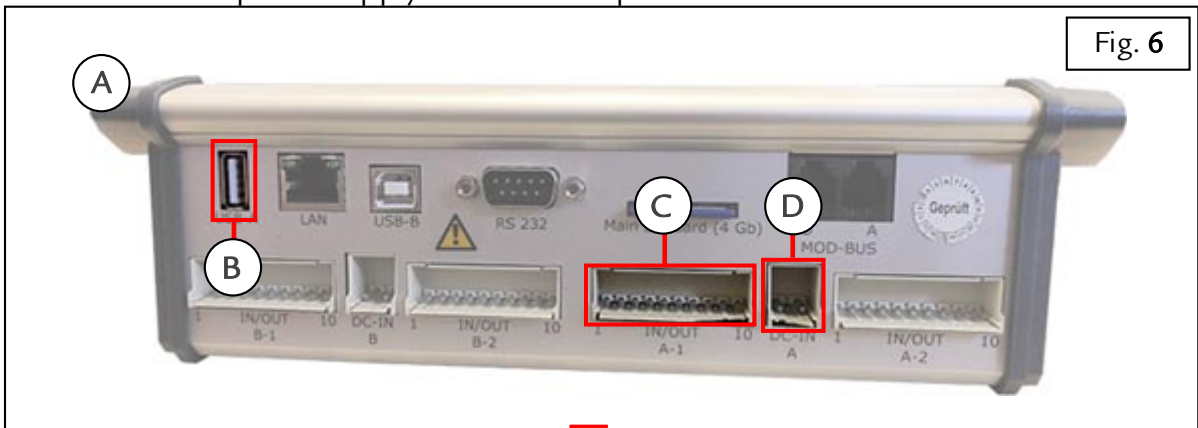
Procedure

The procedure described as follows must be carried out for **BOTH** exhaust silencers.

- Download the file “12630400.zip” containing the firmware needed for the update from the **ECU Software Downloads** section of New Modis, accessible via the following path:

NewModis Portal -> Aftersales Services -> ECU Software Downloads

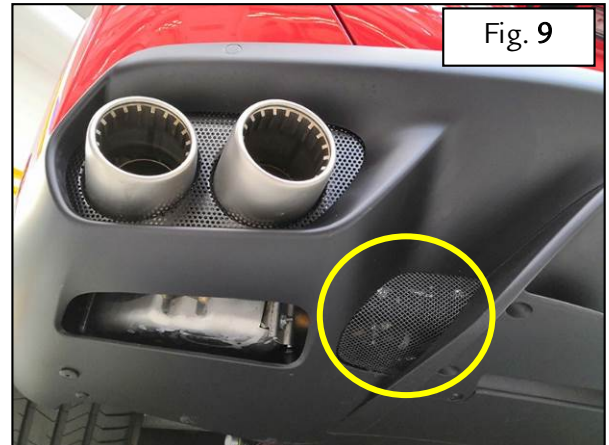
- Unzip the file and copy the contents onto the USB drive.
- Select the **SBS Feintechnik ATS tester (A)** from the kit and identify the ports to be used for connection – Fig.6 and 7.
 - Connect the USB pen drive to port **B**;
 - Connect the connector of the wiring harness to port **C**;
 - Connect the power supply connector to port **D**.





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- Openings under the diffuser allow access to the connectors of the right and left hand exhaust silencers (Fig. 8). To help access, preferably raise the vehicle on a vehicle lift. The connector is situated in the zone indicated in Fig. 9.



- To help identify the connector itself and perform the procedure, the wiring harness connector is shown alone (Fig. 10) and connected to a silencer removed from the vehicle (Fig. 11) in the figures below.





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- Switch the tester on and then press “**System Setup**” to launch the firmware update procedure - Fig.12.

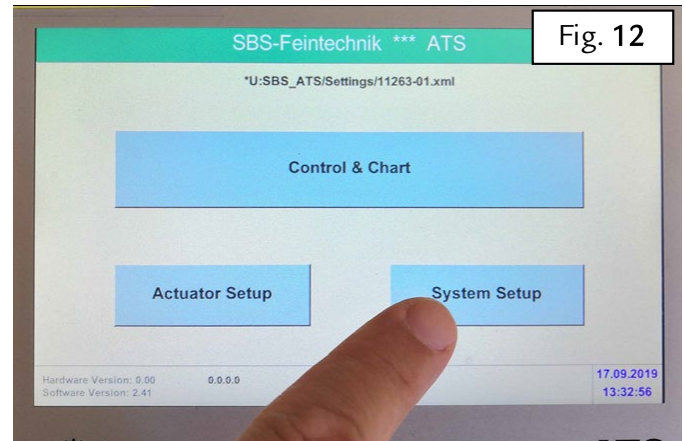


Fig. 12

- From the next screen, press “**Software Update**” to continue - Fig. 13.

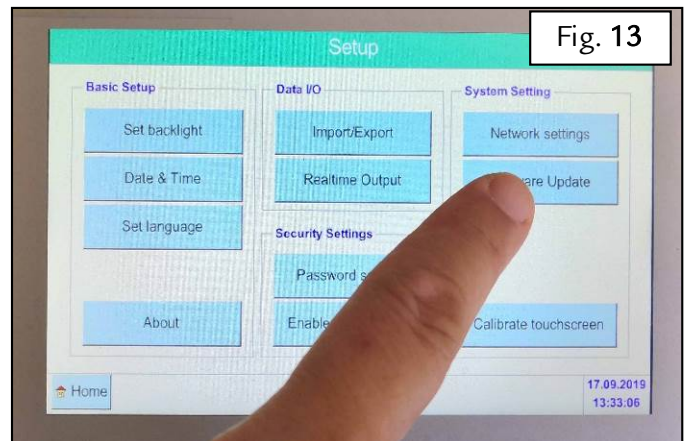


Fig. 13

- The system asks for a password to continue with the update. The default password is **0000** - Fig. 14.

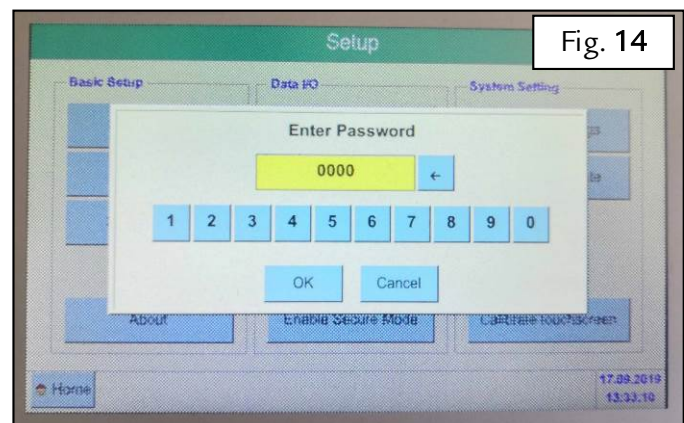


Fig. 14



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➤ Press “Update Actuator” - Fig. 15.

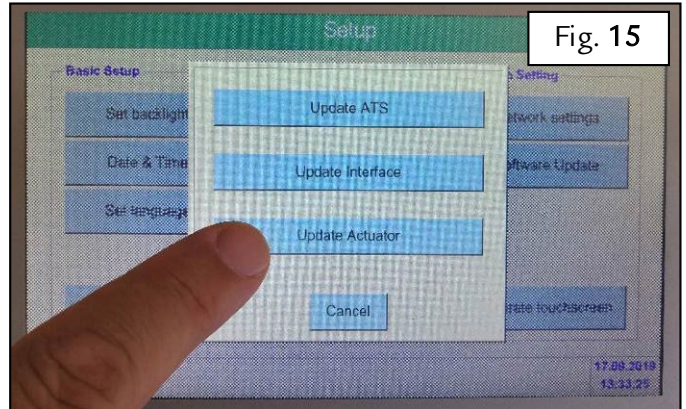


Fig. 15

➤ Press “Select Actuator Image” - Fig. 16

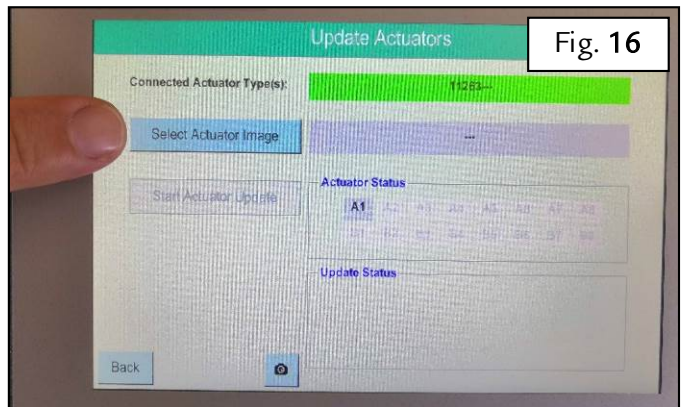


Fig. 16

➤ Select the file saved previously on the USB pen drive from the list and then press OK - Fig. 17, 18.

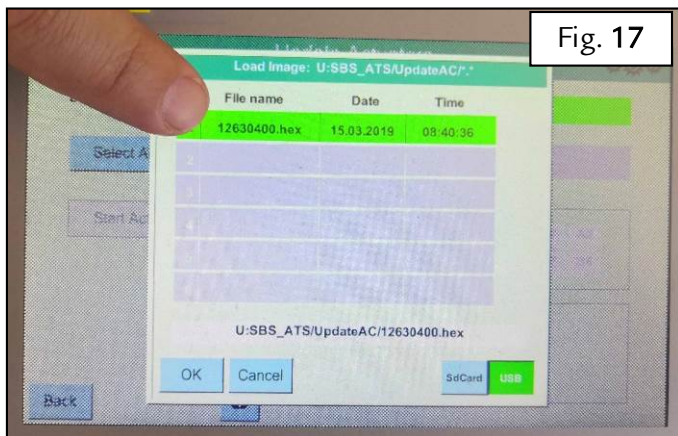


Fig. 17

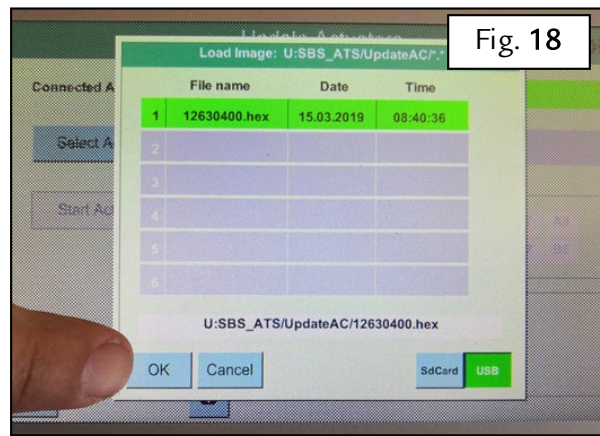
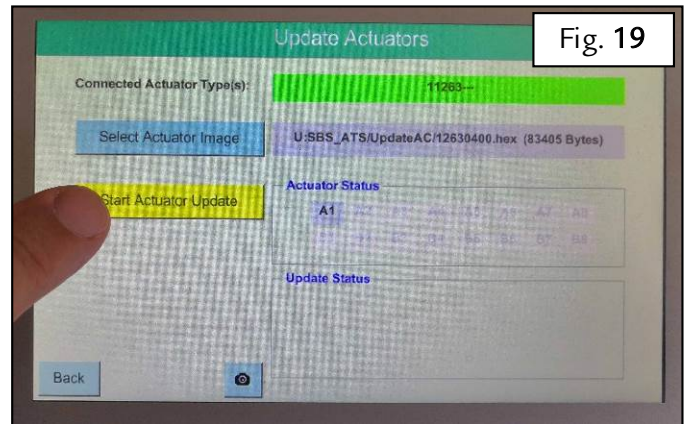


Fig. 18

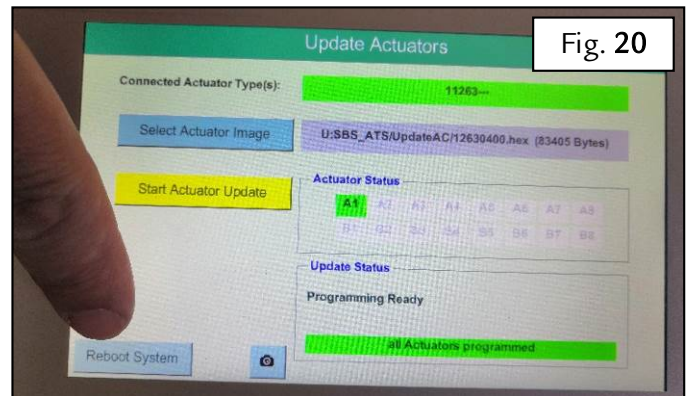


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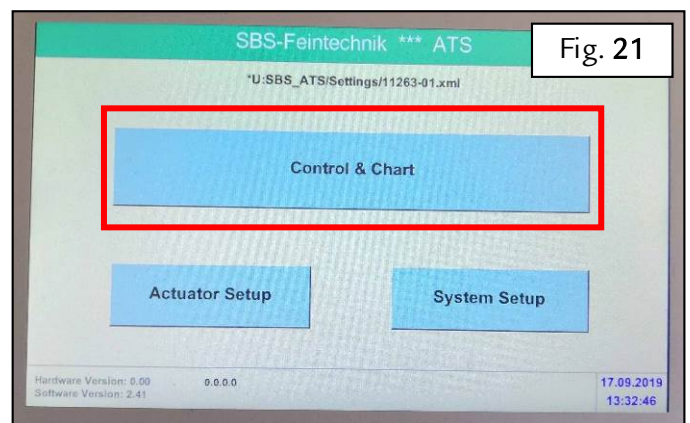
- Press “Start Actuator Update” - Fig. 19.



- Wait for the update to complete and then press “Reboot System” to restart the tester - Fig. 20.



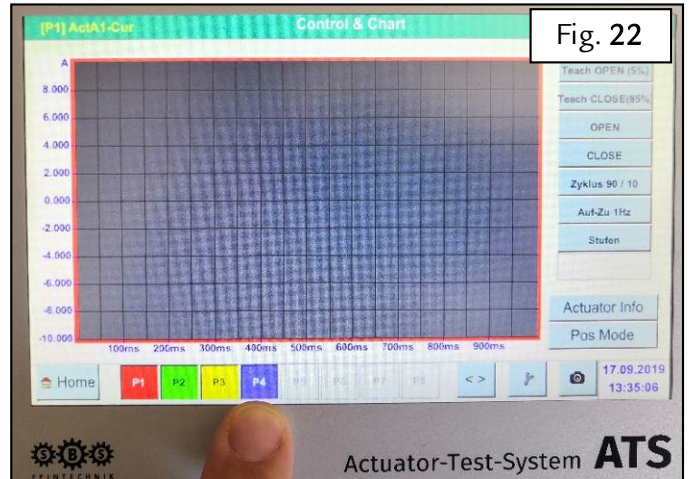
- Once the tester has restarted, press “Control & Chart”. - Fig. 21.



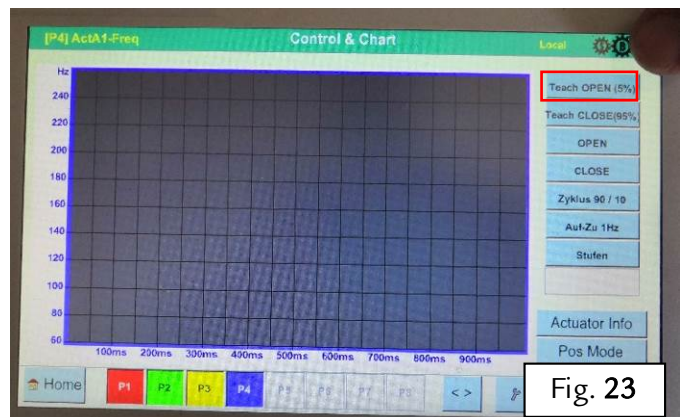


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➤ Press “P4” - Fig. 22.



➤ Press “Teach open” to launch the actuator aperture self-acquisition process - Fig. 23



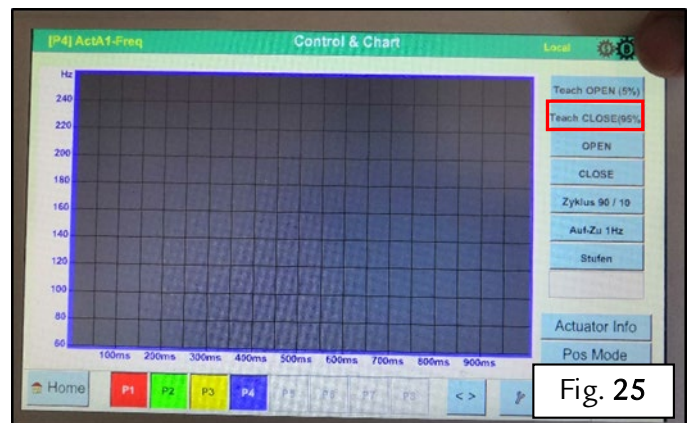


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- A graph is displayed on the screen once the cycle is complete. The cycle may be considered to have been completed correctly if the **BLUE** line ends at a frequency of **200 Hz** – Fig.24



- Once the "open" cycle is complete, press "Teach Close" to launch the actuator closure self-acquisition process - Fig. 25.



- If you do not have the option for "Teach open/Teach closed" then you will have the option for "Teach" which will perform the teach-open and teach-closed cycle.



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- A graph is displayed on the screen once the cycle is complete. The cycle may be considered to have been completed correctly if the **BLUE** line ends at a frequency of **200 Hz** – Fig.26

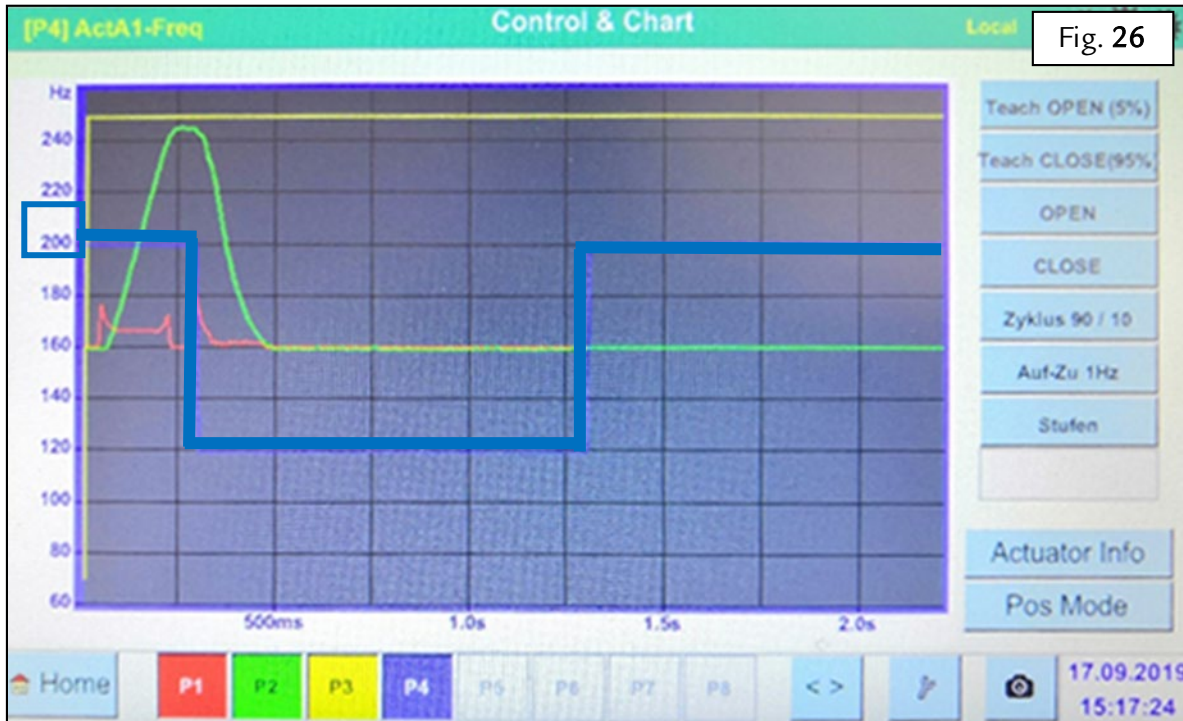


Fig. 26

- As a final check to ensure that the update has been installed correctly, press “Actuator Info” - Fig. 27.

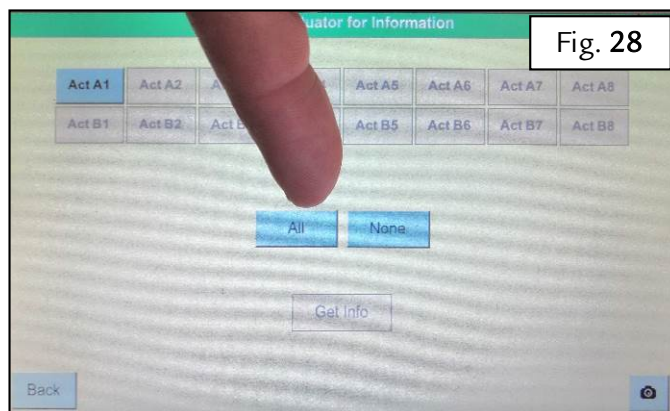


Fig. 27

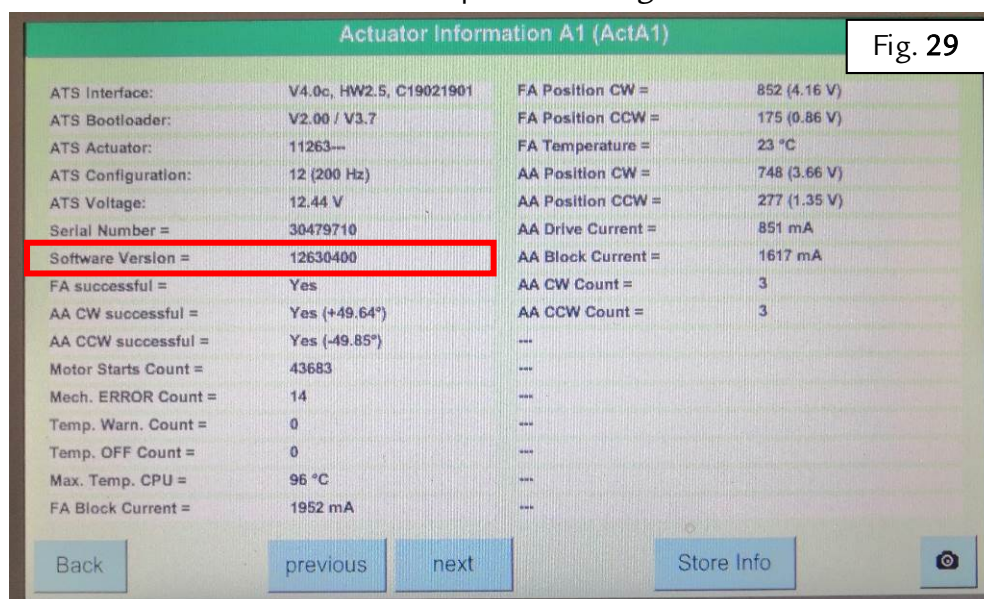


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- Press “All” - Fig. 28.



- Check that the firmware version installed is the same as the version saved on the USB pen drive - Fig. 29.



- Repeat the procedure for the other silencer.
- Once the update is complete, disconnect the tester wiring harness from the exhaust silencers and the stabilized power supply.



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Services under warranty

The costs incurred for this service must be recovered through our **Warranty System** indicating:

› Campaign number.....	459
› Cost code	23
› Malfunction code	6409000339
› Problem code	01
› Operation code	64090003390
› Time	allowance 0.5 hours

Thank you for your co-operation.