



ETM presentation

September 2012

ETM

"EBS Test Module"



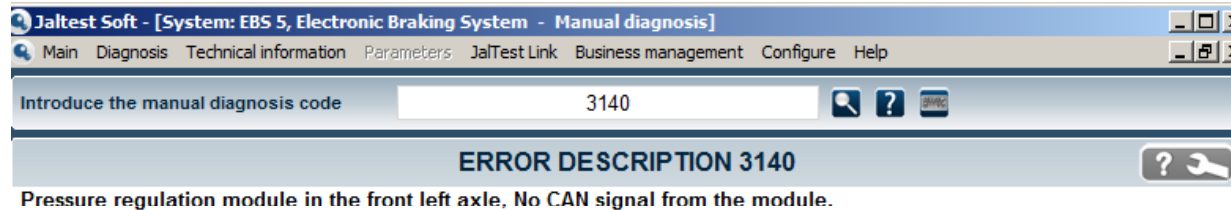
1. *ETM, when to be used*
2. *ETM, new module in JalTest Soft*
3. *Hardware*
4. *Software*
5. *Functionality*

ETM – example when to be used

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When the diagnosis process shows errors about EBS modulators.
In order to check rapidly if the modulator is faulty use ETM.



Troubleshooting for this type of faults:

- *Check electrical installation: it is long task and it could happen on special cases (intermittent open or short circuit)*
- *If electrical installation OK and error persists, replace modulator*
- *If error persists, replace the ECU.*

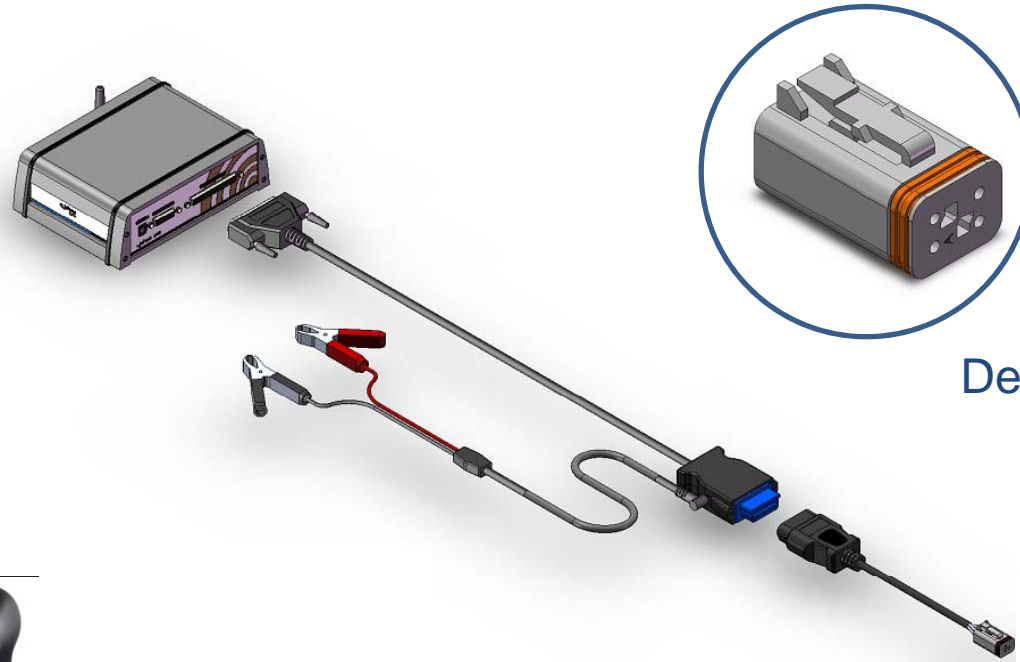


ETM: EBS Test Module

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- What is “ETM”? ETM is a JaiTest Soft additional module used to verify and test EBS modulators.



Detail of connector



ETM – example when to be used

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When the diagnosis process shows errors about EBS modulators.
In order to check rapidly if the modulator is faulty use ETM.

The screenshot shows the Jaltest Soft software interface. The title bar reads "Jaltest Soft - [System: EBS 5, Electronic Braking System - Manual diagnosis]". The menu bar includes "Main", "Diagnosis", "Technical information", "Parameters", "JalTest Link", "Business management", "Configure", and "Help". A search bar contains the manual diagnosis code "3140". Below this, the "ERROR DESCRIPTION 3140" is displayed as "Pressure regulation module in the front left axle, No CAN signal from the module." A section titled "COMPONENTS RELATED TO THE ERROR" contains a table with the following data:

| CODE | Name | Info | Location | Sections | Electrical Scheme |
|--------|---|------|----------|----------|-------------------|
| CX1557 | Chassis connection, left part | ✓ | ✓ | | ✓ |
| CY263 | Pressure regulation module in the front left axle | ✓ | | ✓ | ✓ |

At the bottom of the screenshot, a toolbar is visible with various icons for navigation and diagnosis. The status bar at the bottom shows the vehicle model "[MAN] [TGX [2007 - ...]]" and the system "[EBS 5, Electronic Braking System]". The version number "12.3.0.0" is also displayed.

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HARDWARE:



- *Specific cables are needed: the ETM cable kit.*
- *JalTest Link is the communication interface to the EBS modulator.*
- *EBS modulators should be tested on the vehicle. Otherwise, it is needed to connect all the electrical and pneumatic elements to test it.*

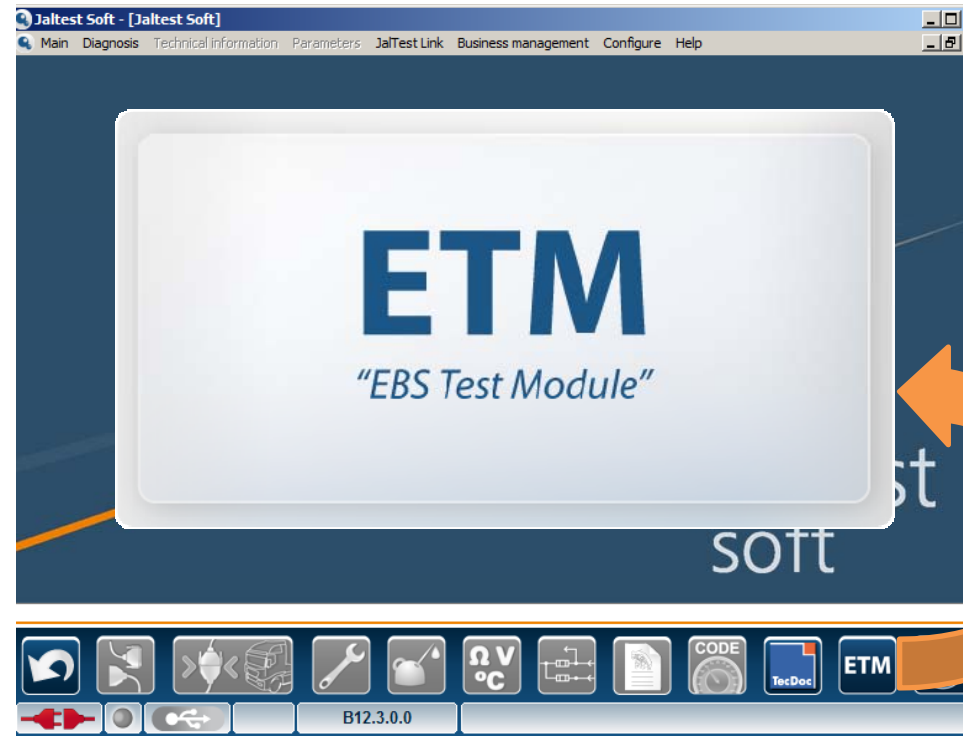
ETM: EBS Test Module

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Software:

- *JalTest Soft is needed. It is not possible to have a stand-alone ETM application. ETM is launched from the direct access.*
- *The ETM license is linked with the current JalTestSoft license. (maximum 1 year)*



ETM - how does it work?



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STEP 1: Introduce the reference number of the modulator. A smart search toolbar helps to find the modulator.

Selection of EBS modulator reference

Enter the EBS modulator reference and select it from the drop-down list.

i Enter the reference:  

Select the reference: 

ETM - how does it work?

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Result of the step 1: Information about the EBS modulator reference indicated by the user, is displayed.

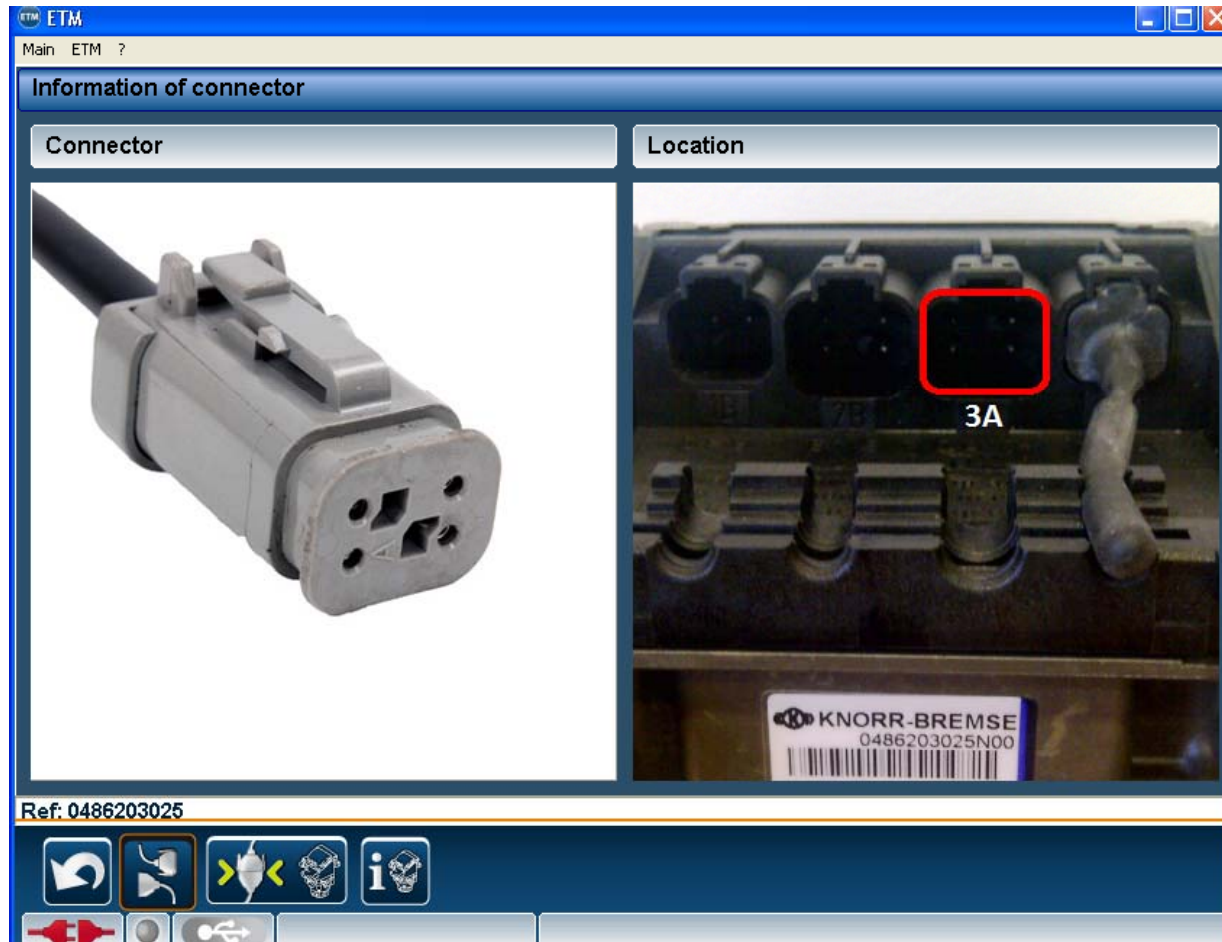


ETM - how does it work?

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STEP 2: Connection information. Which cable is needed and where it must be fitted.



ETM - how does it work?

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Result of step 2: If the modulator is mounted in the vehicle, disconnect the plug of the marked socket and connect the cable indicated in the connection information.



ETM - how does it work?

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STEP 3: To establish communication with the modulator the user must select the modulator settings.

Modulator settings

Please, select the modulator settings.

i

| | |
|------------------------------------|--------------------------------|
| Number of speed sensors: | <input type="text" value="2"/> |
| Suspension Pressure Sensor: | <input type="text"/> |
| Number of brake pads wear sensors: | <input type="text" value="2"/> |
| Trailer control valve: | <input type="text"/> |

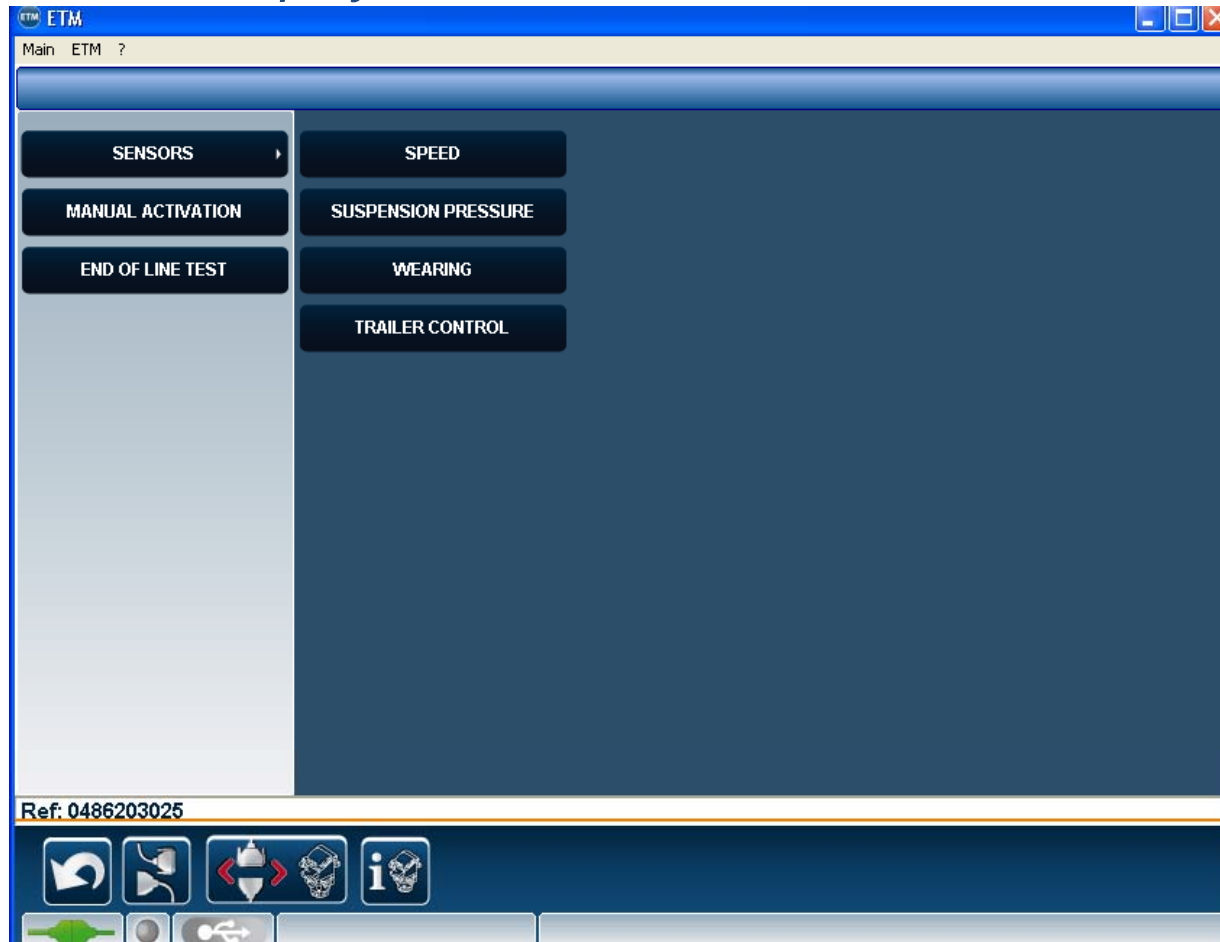
ACCEPT CANCEL

ETM - how does it work?

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Result of step 3: Connection and menu selection to test the modulator is displayed. The user can choose what test to do.





Manual activation

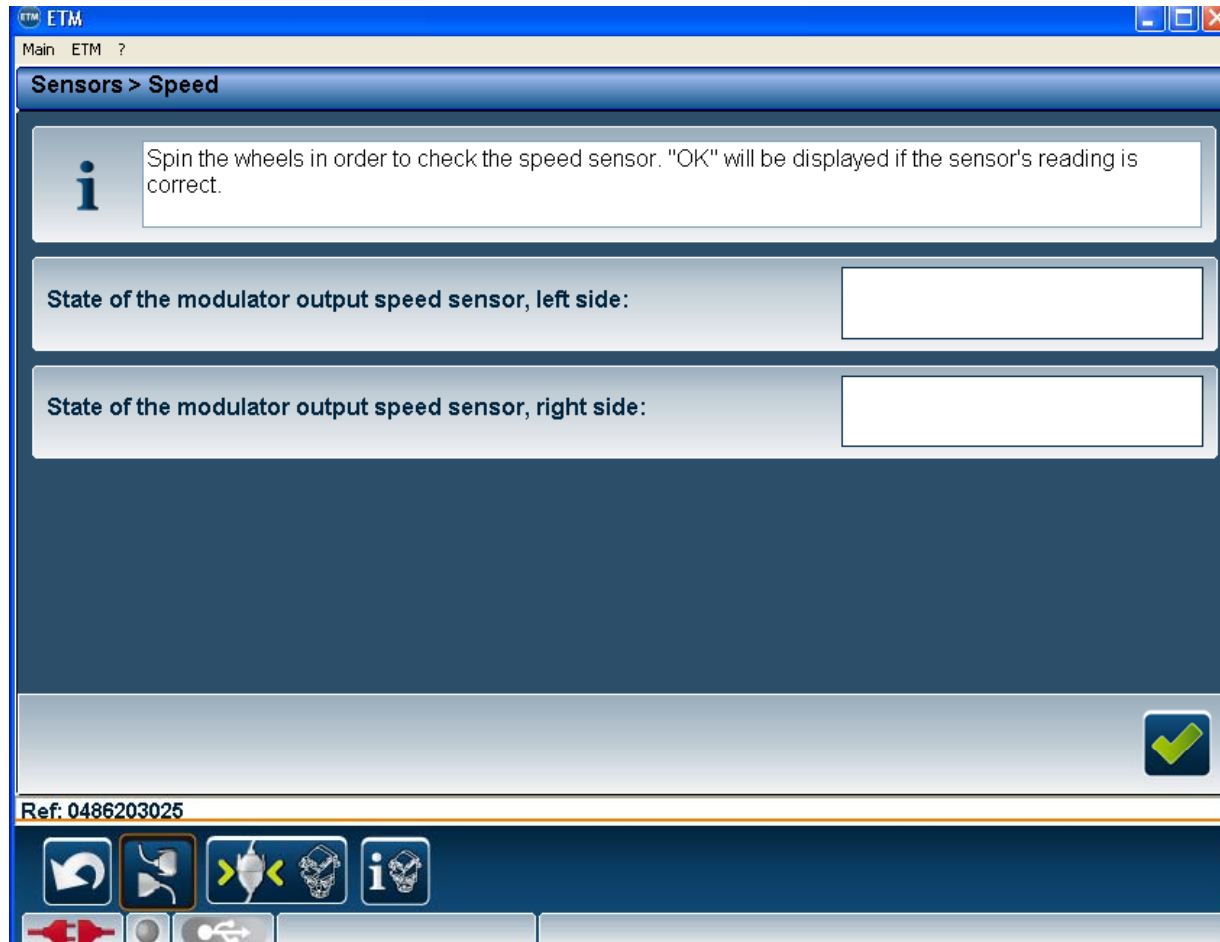


ETM, EBS Test Module functions

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Checking of speed sensors

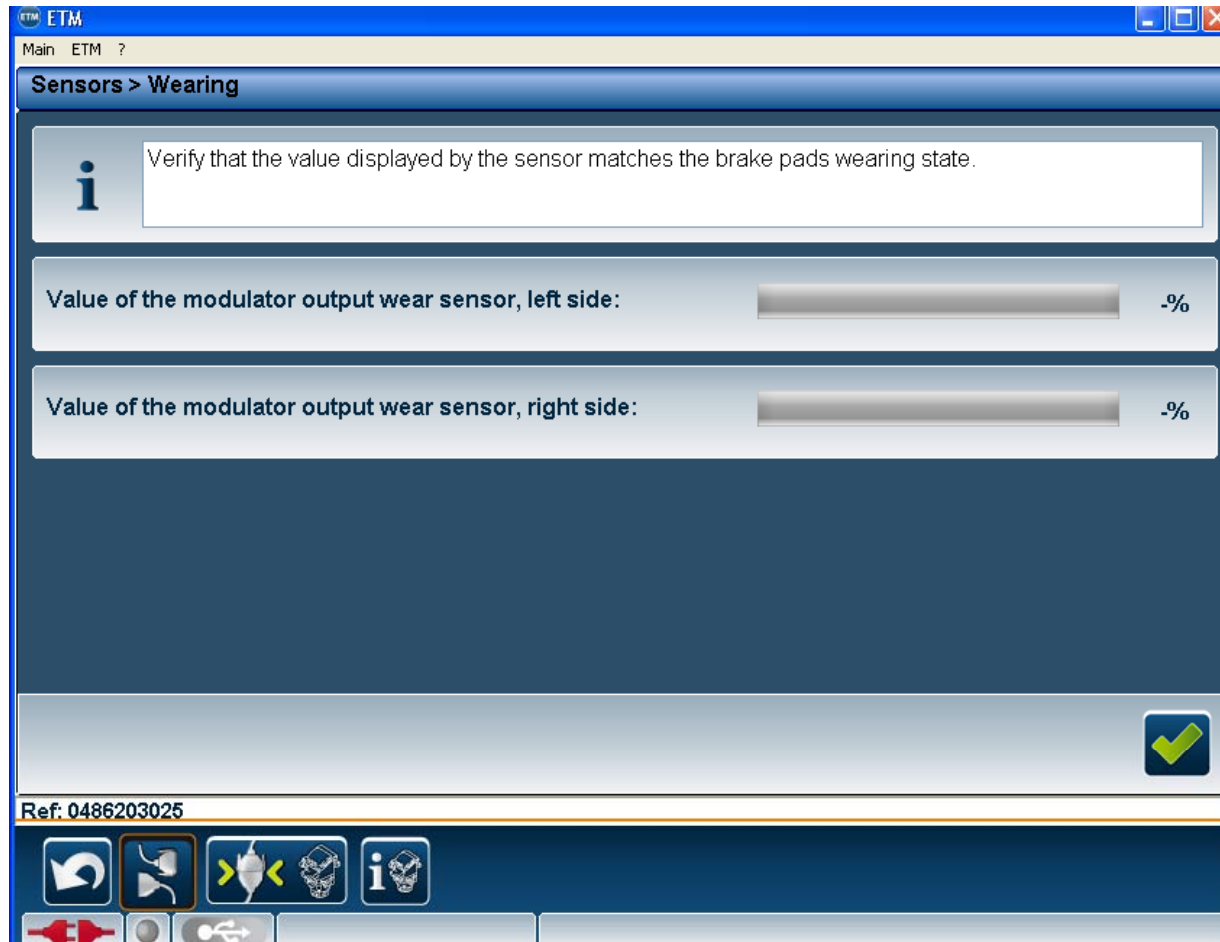


ETM, EBS Test Module functions

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Checking of wearing pads sensors

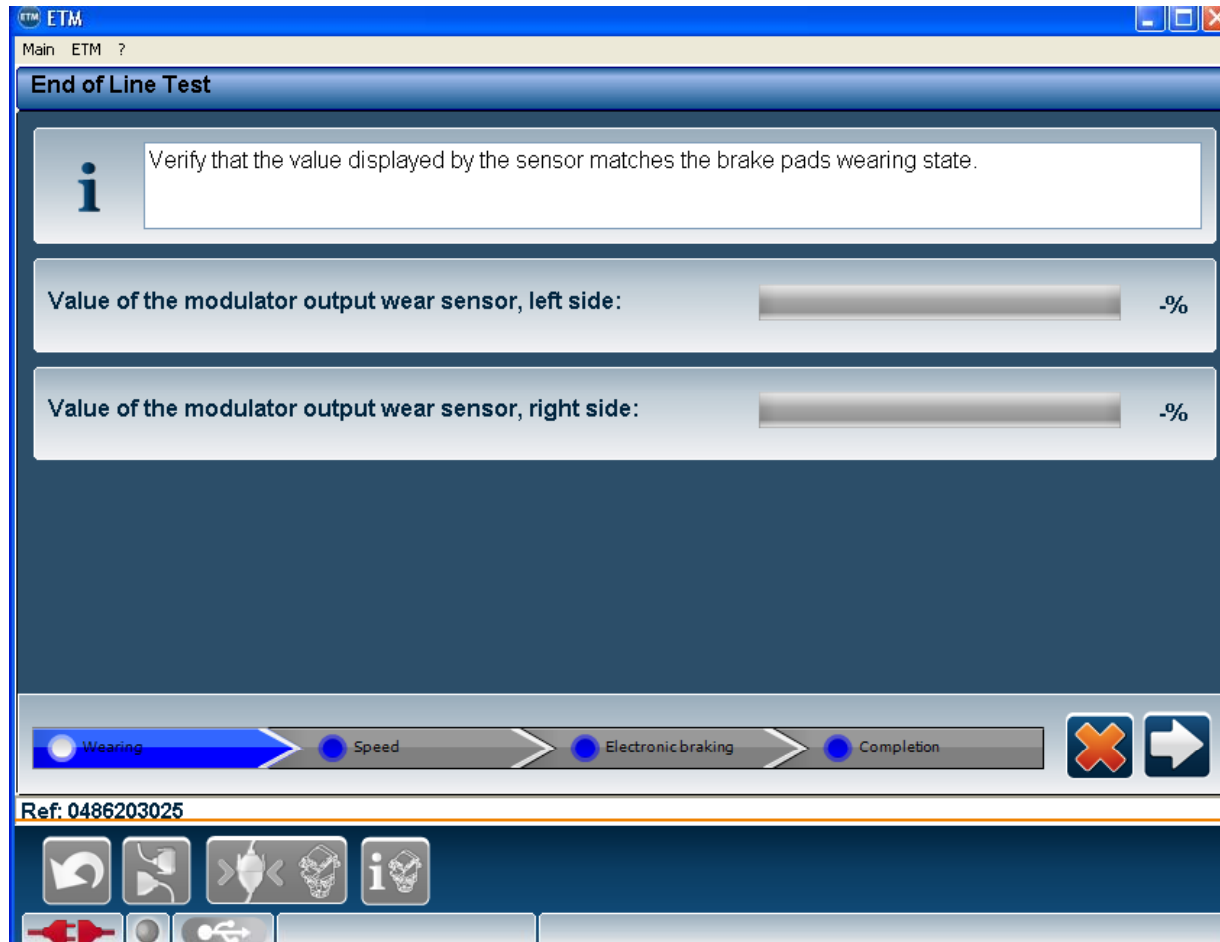


ETM, EBS Test Module functions

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End of Line Test

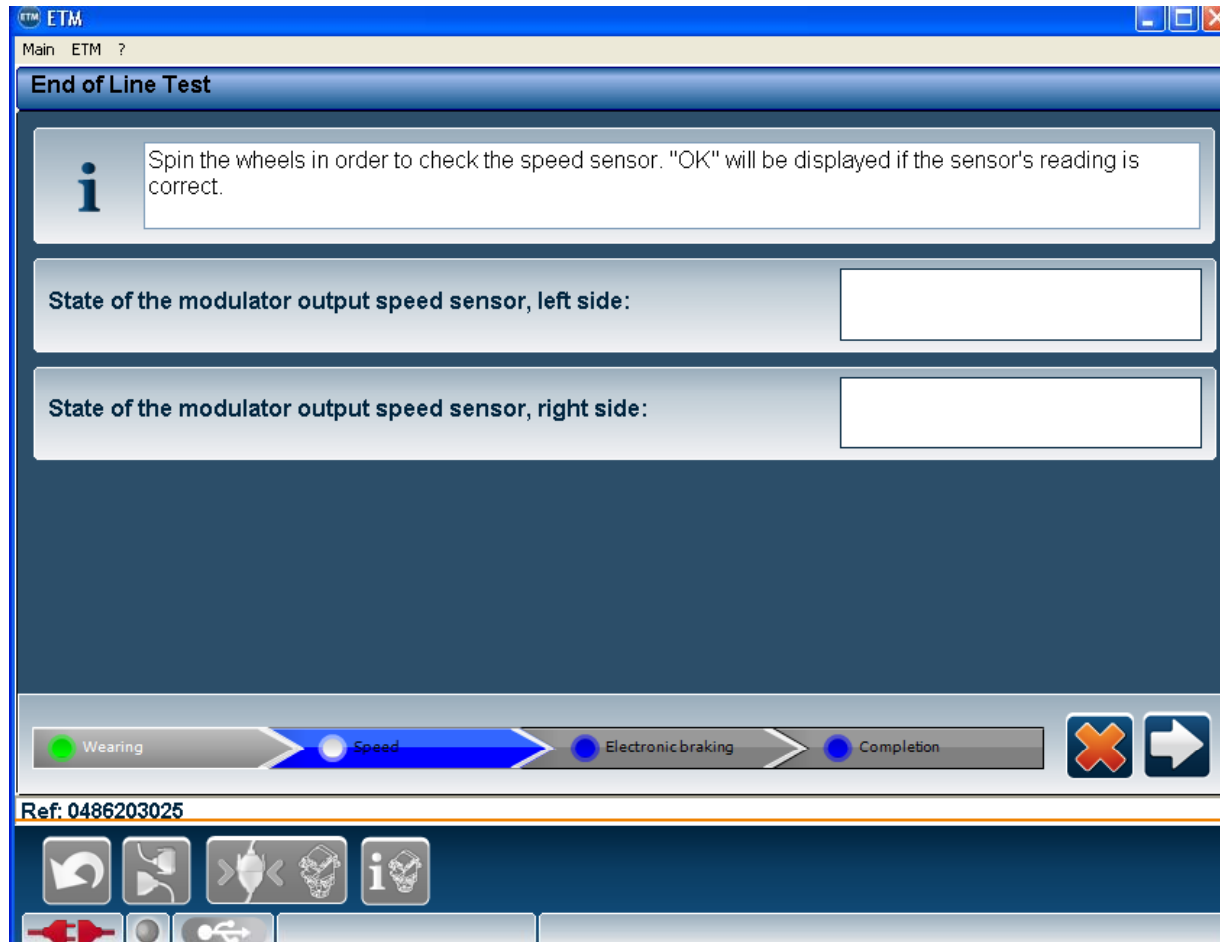


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End of Line Test

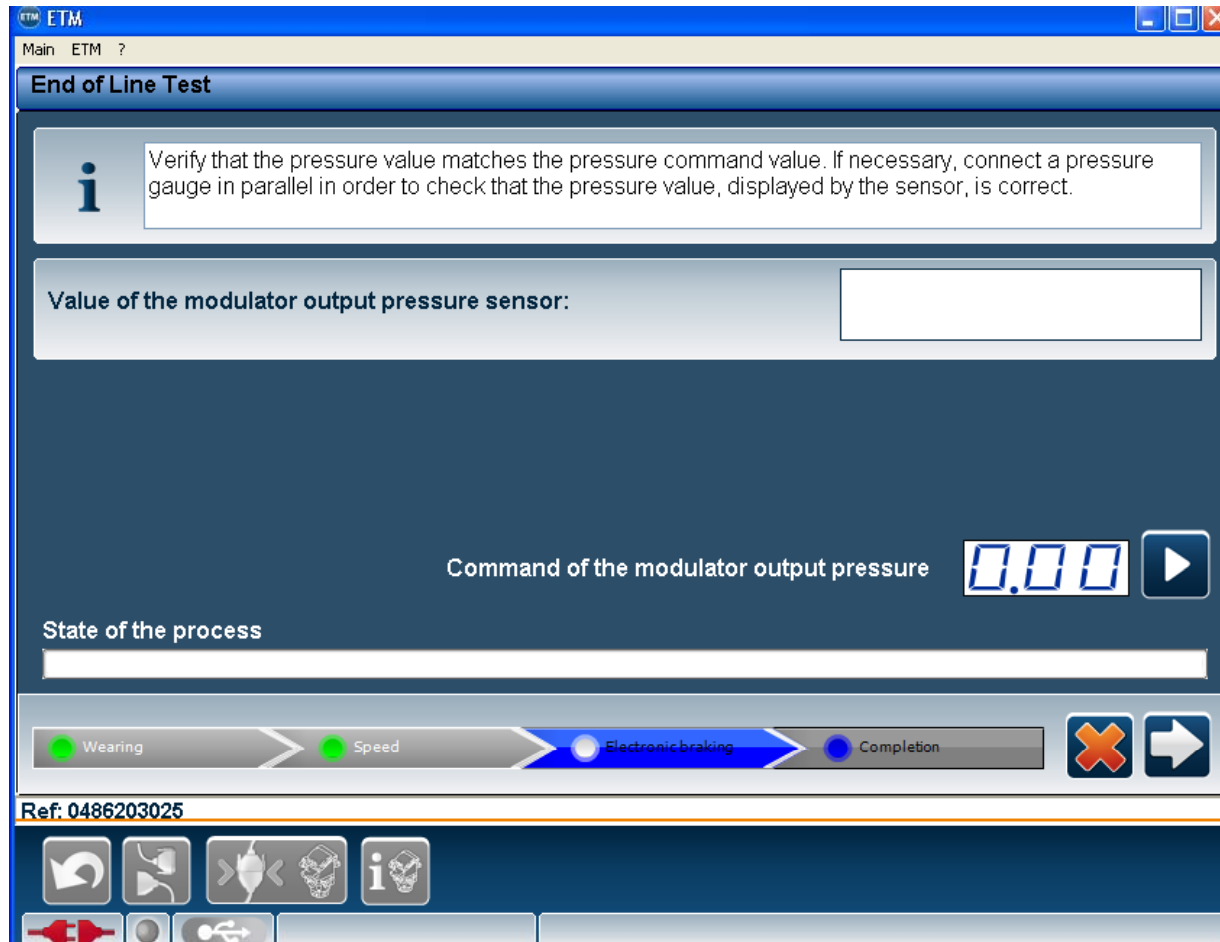


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End of Line Test



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End of Line Test Result

