
Software Manual

TM 507-PC

TM 510-PC

MANAGER

REPORTS





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Main screen



Import tests: Import tests done by the machine to the computer.

Remote: Performs injector/sensor/valve and pump tests.

Clients: Clients registration.

Search reports: Search database of imported tests.

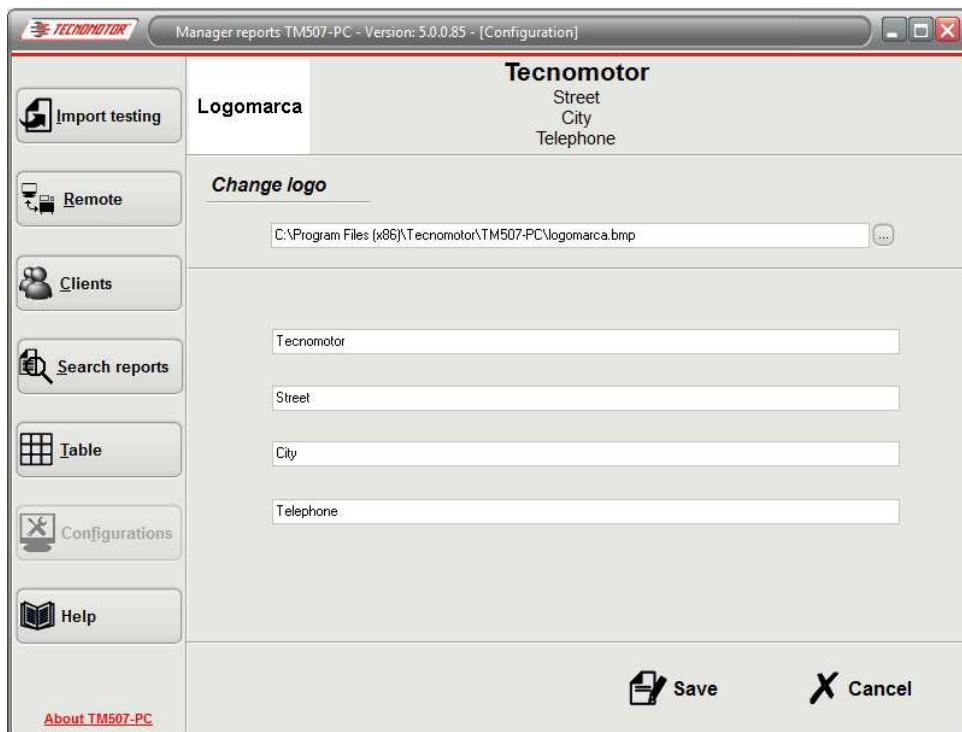
Table: Table of standard values for injectors, sensors, valves and pumps.

Configurations: Performs software configurations.

Help: Open the software manual.

Software setup

Company information, logo and software language are defined in the software setup screen, as shown in the picture below:



Manager reports TM507-PC - Version: 5.0.0.85 - [Configuration]

Logomarca

Tecnomotor
Street
City
Telephone

Change logo

C:\Program Files (x86)\Tecnomotor\TM507-PC\logomarca.bmp

Tecnomotor

Street

City

Telephone

Save Cancel

About TM507-PC

Data informed in this screen are the same that will be shown in the report header.

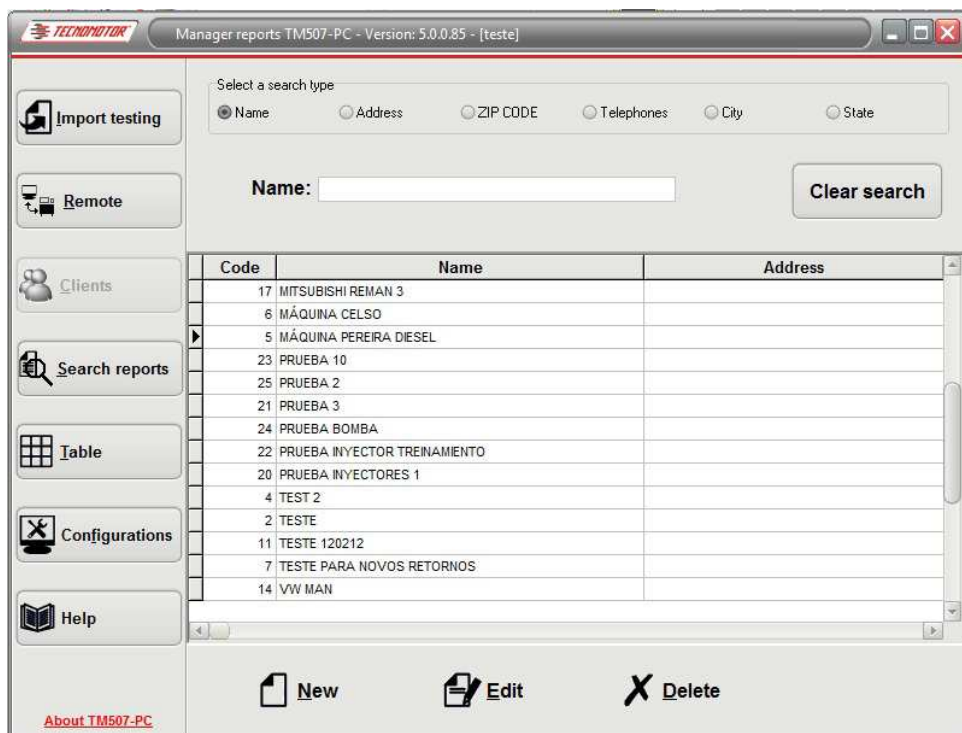
Registry and changes in clients data

Software TM 507-PC/TM 510-PC allows the inclusion of clients that will be bound to the tests accomplished with the TM 507. Inclusions of these clients can be accomplished before or at import in a very simple and clear way. In order to add a client, follow instructions below:

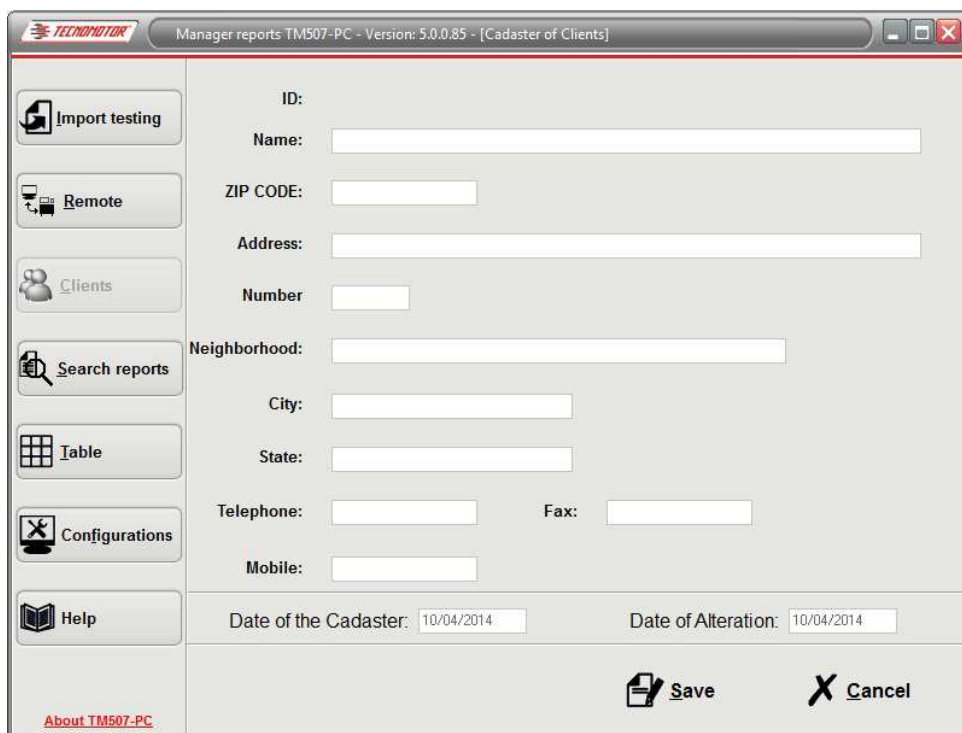
- In the main menu, click the button called “Clients”; then, a window will open in the right side, which will show all registered clients;
- Click button called “New”;
- Include the information of your client;
- Click button called “Save” or “Cancel” in order to return to the previous screen.

In order to change data of a client, select the client that shall be changed and click button called “Edit”. After making necessary changes, click button called “Save” or “Cancel” in order to return to the previous screen.

Screens below show clearly the inclusion and change of clients.



- Click the button "New";



Manager reports TM507-PC - Version: 5.0.0.85 - [Cadaster of Clients]

Import testing

Remote

Clients

Search reports

Table

Configurations

Help

[About TM507-PC](#)

ID: _____

Name: _____

ZIP CODE: _____

Address: _____

Number: _____

Neighborhood: _____



City: _____

State: _____

Telephone: _____ Fax: _____

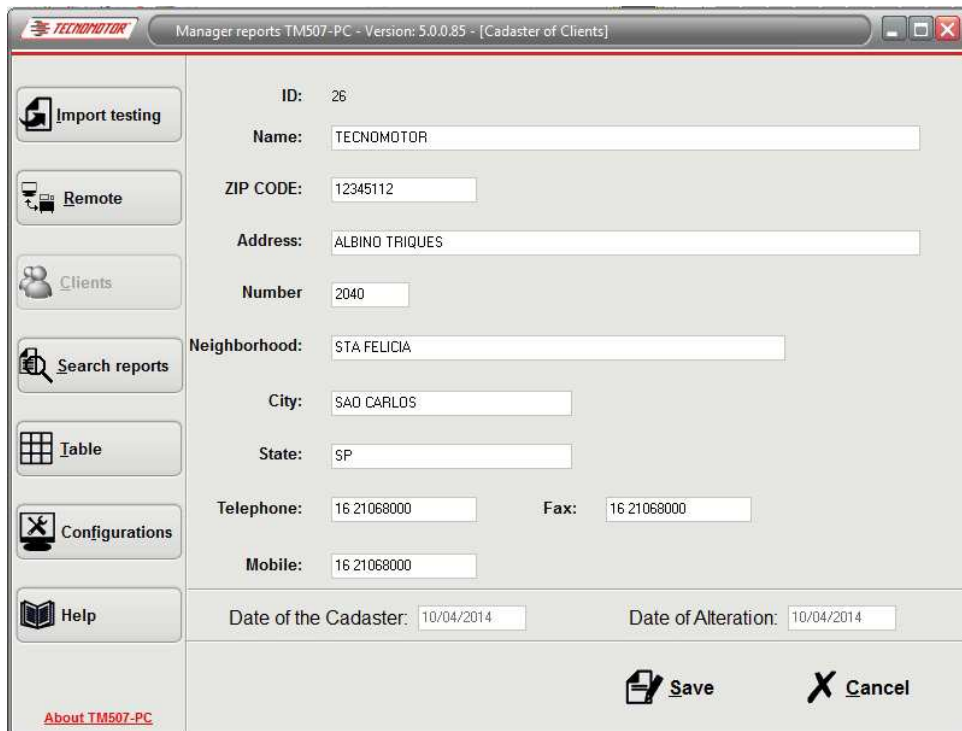
Mobile: _____

Date of the Cadaster: 10/04/2014 Date of Alteration: 10/04/2014

 **Save**  **Cancel**

- Include information about your client that you feel is necessary;
Click the "Save" or "Cancel" button to return to the previous screen.

To change a client, select the client you wish to change and click the "Edit" button after making the necessary changes click the "Save" or "Cancel" button to return to the previous screen.



Manager reports TM507-PC - Version: 5.0.0.85 - [Cadaster of Clients]

Import testing

Remote

Clients

Search reports

Table

Configurations

Help

About TM507-PC

ID: 26

Name: TECNOMOTOR

ZIP CODE: 12345112

Address: ALBINO TRIQUES

Number: 2040

Neighborhood: STA FELICIA

City: SAO CARLOS

State: SP

Telephone: 16 21068000 **Fax:** 16 21068000

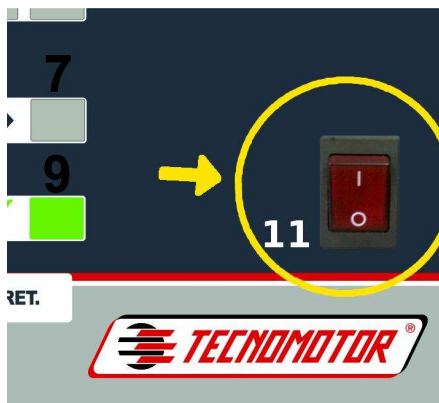
Mobile: 16 21068000

Date of the Cadaster: 10/04/2014 **Date of Alteration:** 10/04/2014

Save **Cancel**

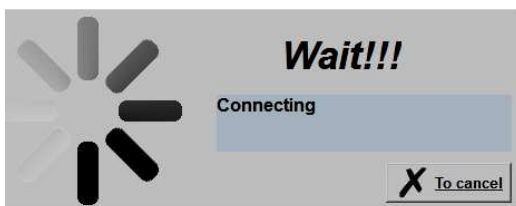
Test import

In order to accomplish the import, one must be sure that the USB cable of the machine is duly connected to the computer. Now, start the TM 507.



Front panel commuter: Turning the TM 507-III/TM 510 on.

Wait some seconds until the machine's software is initialized, and do not turn the machine off while the whole process is not concluded. Now, click "Import tests" and wait that communication is established and the software makes the import of data available in the machine.



Selection of tests

After the software has made the import of available tests, those that were found will be shown; if a given test wasn't imported yet, the software will mark it:

- Injector test or;
- Sensor test or;
- Valve test or;
- Pump test.

Available Tests	
<input type="checkbox"/> Test Injectors	11/11/13 - 06:12
<input type="checkbox"/> Test Valve	25/07/13 - 11:55
<input type="checkbox"/> Test Sensor	15/10/13 - 09:17
<input type="checkbox"/> Pump Test	

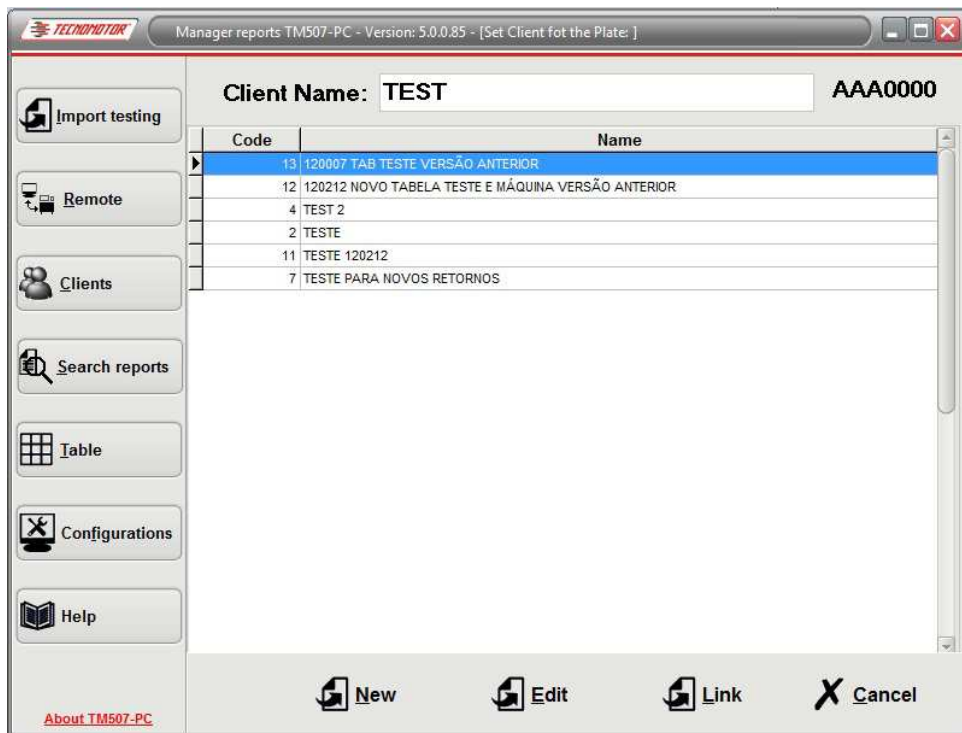
Mark the tests you want to import for a given client.

Vehicle inclusion and selection

After selecting the test, you must associate the vehicle to be imported.

Choose Vehicle																							
Plate:	Client Name:																						
<input type="button" value="Link Client"/>	<table><thead><tr><th>Plate</th><th>Code</th><th>Name</th></tr></thead><tbody><tr><td>0000002</td><td>2</td><td>TESTE</td></tr><tr><td>0000003</td><td>2</td><td>TESTE</td></tr><tr><td>0000004</td><td>2</td><td>TESTE</td></tr><tr><td>0000005</td><td>2</td><td>TESTE</td></tr><tr><td>0000006</td><td>2</td><td>TESTE</td></tr><tr><td>0000007</td><td>2</td><td>TESTE</td></tr></tbody></table>		Plate	Code	Name	0000002	2	TESTE	0000003	2	TESTE	0000004	2	TESTE	0000005	2	TESTE	0000006	2	TESTE	0000007	2	TESTE
Plate	Code	Name																					
0000002	2	TESTE																					
0000003	2	TESTE																					
0000004	2	TESTE																					
0000005	2	TESTE																					
0000006	2	TESTE																					
0000007	2	TESTE																					
<input type="button" value="Unlink Client"/>																							

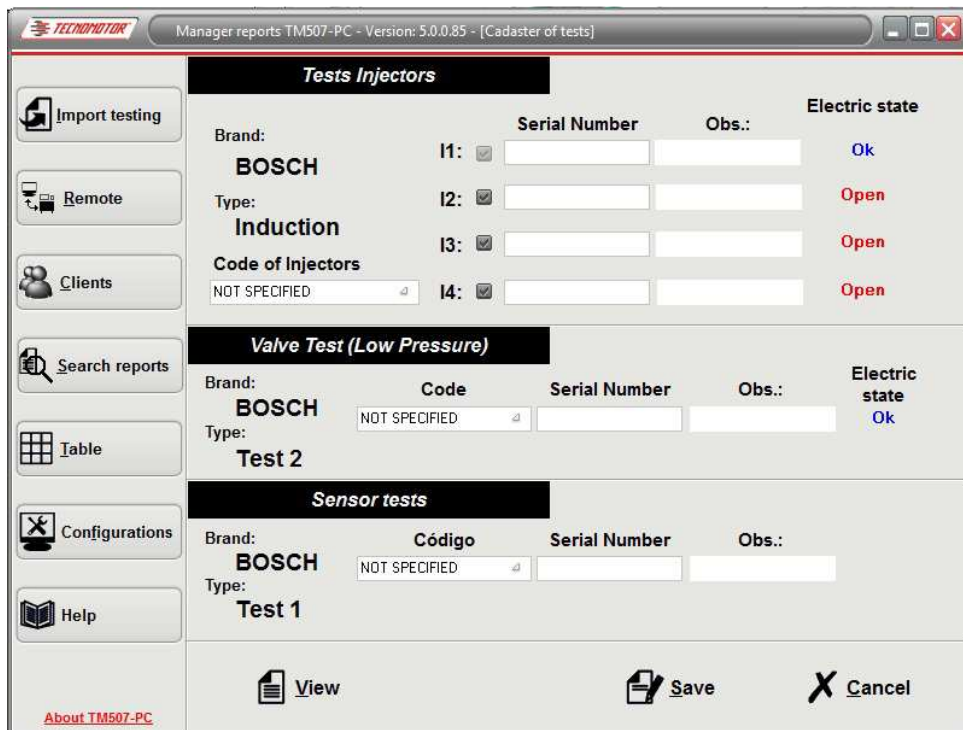
First the license plate or the client's name linked to the vehicle. If you wish to link a new client to the vehicle simply select or insert a new license and click the Link button to show the client screen client; select or create a new client (page 5) and click the "Link" button.



With the tests marked and the vehicle selected, the import can be performed. But beware, if no client is bound to informed board, no client information will be displayed in the report.



In the next screen, the software will show manufacturer name, type and electric state of the accomplished test.



Manager reports TM507-PC - Version: 5.0.0.85 - [Cadastrar de tests]

Tests Injectors

Brand:	Serial Number	Obs.:	Electric state
BOSCH	I1: <input checked="" type="checkbox"/> <input type="text"/>	<input type="text"/>	Ok
Type: Induction	I2: <input checked="" type="checkbox"/> <input type="text"/>	<input type="text"/>	Open
Code of Injectors	I3: <input checked="" type="checkbox"/> <input type="text"/>	<input type="text"/>	Open
NOT SPECIFIED	I4: <input checked="" type="checkbox"/> <input type="text"/>	<input type="text"/>	Open

Valve Test (Low Pressure)

Brand:	Code	Serial Number	Obs.:	Electric state
BOSCH	NOT SPECIFIED	<input type="text"/>	<input type="text"/>	Ok
Type: Test 2				

Sensor tests

Brand:	Código	Serial Number	Obs.:
BOSCH	NOT SPECIFIED	<input type="text"/>	<input type="text"/>
Type: Test 1			

[About TM507-PC](#)

It is also necessary to fill out the following items for concluding the import of the test and to generate the report:

- Manufacturer code: it is very important to fill this code out, for it is through it that the software will analyze imported data and compare them to a standard table already included in the software. In case the code of the injector, sensor or valve tested doesn't exist in the selection field, it is possible to manually type it, although results won't have any comparison. Refer to item "Updating of standard table".
- Serial Number: this field is reserved for filling the serial number of the part to be tested up.

Note: This field is optional, and can be used if necessary.

Types of electric state

- Short Circuit
- Ok
- Open (Selected) or Not installed (Not selected)



Injector open (Selected)



Injector not installed (Not selected)

Note: The TM 507-III/TM 510 doesn't perceive if an injector is in an open circuit or wasn't installed in the equipment. It is necessary to mark or de-mark the selection box in order to inform this condition.

- Outside specifications

Visualize report printing

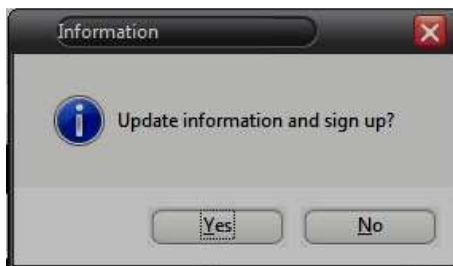
After specifying required items in the test registry, it is possible to visualize and print the imported test(s): click the “Visualize” button;



Save report

Now, click the “Save” button in order to update imported data and generate the report.

Click the “Yes” button in order to finish the test Saving.



Search for reports

In the screen called “Search reports” it is possible to accomplish researches of all reports imported from the TM 507-III/TM 510 to the computer.



The screenshot shows a search form with the following fields and buttons:

- Plate:** [Empty text box] [Search button]
- Name:** [Empty text box] [Search button]
- Number Series:** [Empty text box] [Search button]
- Code:** [Empty text box] [Search button]
- Initial date:** [/ /] [19] [Search button]
- End date:** [28/03/2014] [19] [Search button]
- Clear search** [Large button]

In order to accomplish a search, you just have to type the information to be found in one of the fields at your disposal, and you can choose:

- **License plate:** The search is performed on the Saved tests looking for the license plate.



The screenshot shows the same search form as above, but with the following changes:

- Plate:** [AAA0000] [Search button]
- Name:** [Empty text box] [Search button]
- Number Series:** [Empty text box] [Search button]
- Code:** [Empty text box] [Search button]
- Initial date:** [/ /] [19] [Search button]
- End date:** [28/03/2014] [19] [Search button]
- Clear search** [Large button]

- **Client Name:** The search will be accomplished in Saved tests, by looking for in any part of the client's name.



The screenshot shows the same search form as above, but with the following changes:


- Plate:** [Empty text box] [Search button]
- Name:** [TECNO] [Search button]
- Number Series:** [Empty text box] [Search button]
- Code:** [Empty text box] [Search button]
- Initial date:** [/ /] [19] [Search button]
- End date:** [28/03/2014] [19] [Search button]
- Clear search** [Large button]

- **Serial number:** The search will be accomplished in Saved tests, by looking for the serial number of injectors, sensors or valves.



Search form for Serial number. Fields include: Plate, Name, Number Series (0010242), Code, Initial date, and End date (28/03/2014). Each field has a 'Search' button. A 'Clear search' button is located at the bottom right.

- **Code:** The search will be accomplished in Saved tests, by looking for the code of injectors, sensors or valves.



Search form for Code. Fields include: Plate, Name, Number Series, Code (12345), Initial date, and End date (28/03/2014). Each field has a 'Search' button. A 'Clear search' button is located at the bottom right.

- **Between Dates:** The search will be accomplished in Saved tests, by looking for tests that were accomplished between the dates informed.



Search form for Between Dates. Fields include: Plate, Name, Number Series, Code, Initial date (01/03/2014), and End date (10/03/2014). Each field has a 'Search' button. A 'Clear search' button is located at the bottom right.

Table of report data

In the test(s) report we can visualize the following data:

Injectors	Sensor	Valve
<ul style="list-style-type: none"> • Test mode: <ul style="list-style-type: none"> Automated <ul style="list-style-type: none"> - Idling; - Partial load; - Total load; Custom (only a type of test) <ul style="list-style-type: none"> - Idling or; - Partial load or; - Total load or; - Parameterized. • Test type: <ul style="list-style-type: none"> - Inductive; - Piezoelectric; • Code, Serial Number and Comment <ul style="list-style-type: none"> - Brand; - Code; - Electrical test; - Resistance. <p>For each test mode, we can have:</p> <ul style="list-style-type: none"> - Pressure, temperature, frequency and time; - Flow and return; - Standard flow and standard return (it depends on the code typed); - Comparison graph. 	<ul style="list-style-type: none"> • Code; • Brand; • Test type; • Serial number; • Comment; • Test from 1 to 5; • Comparison graph. 	<ul style="list-style-type: none"> • Code; • Brand; • Test type; • Serial number; • Comment; • Electrical test; • Resistance; • Test from 1 to 5; • Comparison graph.

Example of report

Logomarca
EMPRESA

 NOME DA RUA / AVENIDA - NÚMERO
 CIDADE - ESTADO - CEP
 TELEFONE - EMAIL - SITE

0000016
TEST 2
Tests Injectors

Date of test: 15/09/2012 - 12:47:00

Mode: Automatic

Brand: DENSO
Code: 23670 0L020
Review: 53
Type tests: Induction

	Injector 1	Injector 2	Injector 3	Injector 4
Serial Number:				
Observation:				
Electric tests:	Open	Ok	Open	Open
Resistance (Min/Max):		0.94 Ohm (0.2/1.5)		

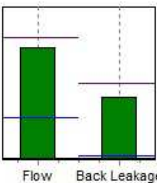
Teste Pre-Injection

Pressure: 800 BAR

Temperature: 48 °C

Frequency: 25 Hz

Time: 240 us

Flow:		32,00 ml (Min: 12,0 / Max: 35,0)		
Back Leakage:		18,00 ml (Min: 1,0 / Max: 22,0)		
<div> <div></div> within the Range <div></div> Out of the Range </div> <div> Standard data table Maximum: _____ Minimum: _____ </div>		 <p>Flow Back Leakage</p>		

EMPRESA

Logomarca

NOME DA RUA / AVENIDA - NÚMERO
CIDADE - ESTADO - CEP
TELEFONE - EMAIL - SITE

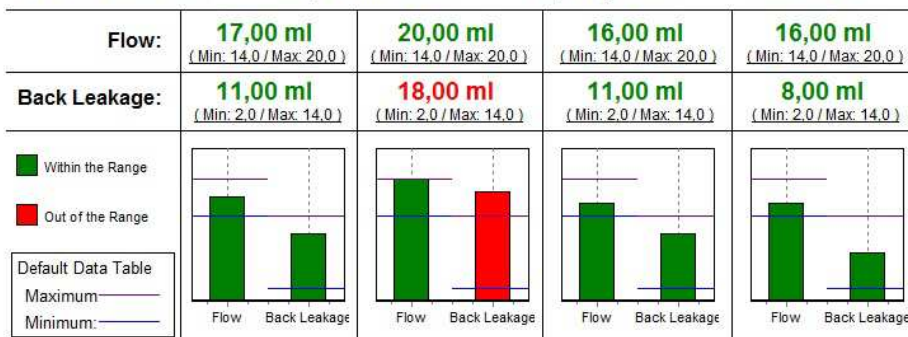
Test Idle Pressure:

Pressure: 350 BAR

Temperature: 50 °C

Frequency: 25 Hz

Time: 500 us



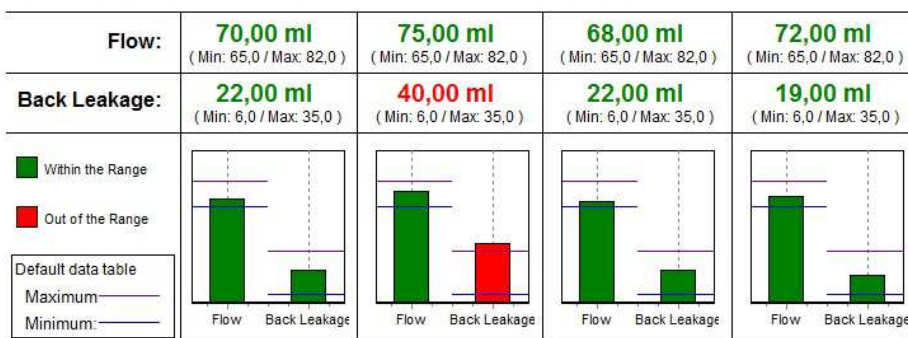
Partial Load Test:

Pressure: 800 BAR

Temperature: 50 °C

Frequency: 18 Hz

Time: 1000 us



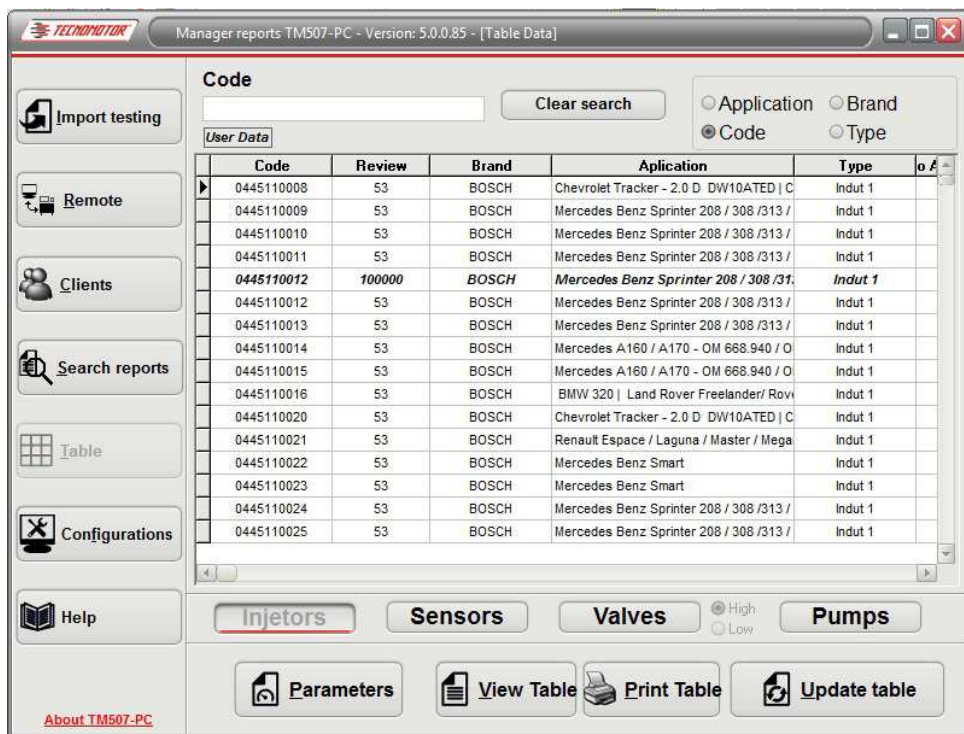
Comparison of accomplished test data

■ Within the Range
■ Out of the Range

A comparison with the table containing the data that have already been tested by Tecnomotor is accomplished in the table. We can identify this comparison through the green and red colors, as shown in the side legend. Data obtained in tests are compared with data from the table that contains the minimum and maximum values of the component tested.

Standard table

Standard data obtained through tests accomplished in Tecnomotor are stored in the TM 507-PC/TM 510-PC. These data can be consulted in the main menu through the button called "Table". The table of standard data can be automatically updated through an internet connection.



Manager reports TM507-PC - Version: 5.0.0.85 - [Table Data]

Code

Clear search

☐ Application ☐ Brand
☒ Code ☐ Type

User Data

Code	Review	Brand	Application	Type
0445110008	53	BOSCH	Chevrolet Tracker - 2.0 D DW10ATED C	Indut 1
0445110009	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1
0445110010	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1
0445110011	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1
0445110012	100000	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1
0445110012	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1
0445110013	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1
0445110014	53	BOSCH	Mercedes A160 / A170 - OM 668.940 / O	Indut 1
0445110015	53	BOSCH	Mercedes A160 / A170 - OM 668.940 / O	Indut 1
0445110016	53	BOSCH	BMW 320 Land Rover Freelander/ Rovi	Indut 1
0445110020	53	BOSCH	Chevrolet Tracker - 2.0 D DW10ATED C	Indut 1
0445110021	53	BOSCH	Renault Espace / Laguna / Master / Mega	Indut 1
0445110022	53	BOSCH	Mercedes Benz Smart	Indut 1
0445110023	53	BOSCH	Mercedes Benz Smart	Indut 1
0445110024	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1
0445110025	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1

Injetors **Sensors** **Valves** ☒ High ☐ Low **Pumps**

Parameters **View Table** **Print Table** **Update table**

About TM507-PC

Table of data

• Parameters

In the "Parameters" button is displayed the registration screen where you can register, change, duplicate and delete* data for injectors, sensors, valves and pumps.

* It is only allowed to delete data created by the user.

To display the registration screen select the desired button: injector, sensor, valve or pump.










Once selected click "Parameters".



• User Data

The data entered by the user are shown in bold in the default table.

 Import testing
 Remote
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 Search reports
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 Help

Manager reports TM507-PC - Version: 5.0.0.85 - [Table Data]

Code





User Data

Code	Review	Brand	Application	Type	o
0445110008	53	BOSCH	Chevrolet Tracker - 2.0 D DW10ATED C	Indut 1	
0445110009	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1	
0445110010	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1	
0445110011	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1	
0445110012	100000	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1	
0445110012	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1	
0445110013	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1	
0445110014	53	BOSCH	Mercedes A160 / A170 - OM 668.940 / O	Indut 1	
0445110015	53	BOSCH	Mercedes A160 / A170 - OM 668.940 / O	Indut 1	
0445110016	53	BOSCH	BMW 320 Land Rover Freelander/ Rovi	Indut 1	
0445110020	53	BOSCH	Chevrolet Tracker - 2.0 D DW10ATED C	Indut 1	
0445110021	53	BOSCH	Renault Espace / Laguna / Master / Mega	Indut 1	
0445110022	53	BOSCH	Mercedes Benz Smart	Indut 1	
0445110023	53	BOSCH	Mercedes Benz Smart	Indut 1	
0445110024	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1	
0445110025	53	BOSCH	Mercedes Benz Sprinter 208 / 308 /313 /	Indut 1	

☐ Application ☐ Brand

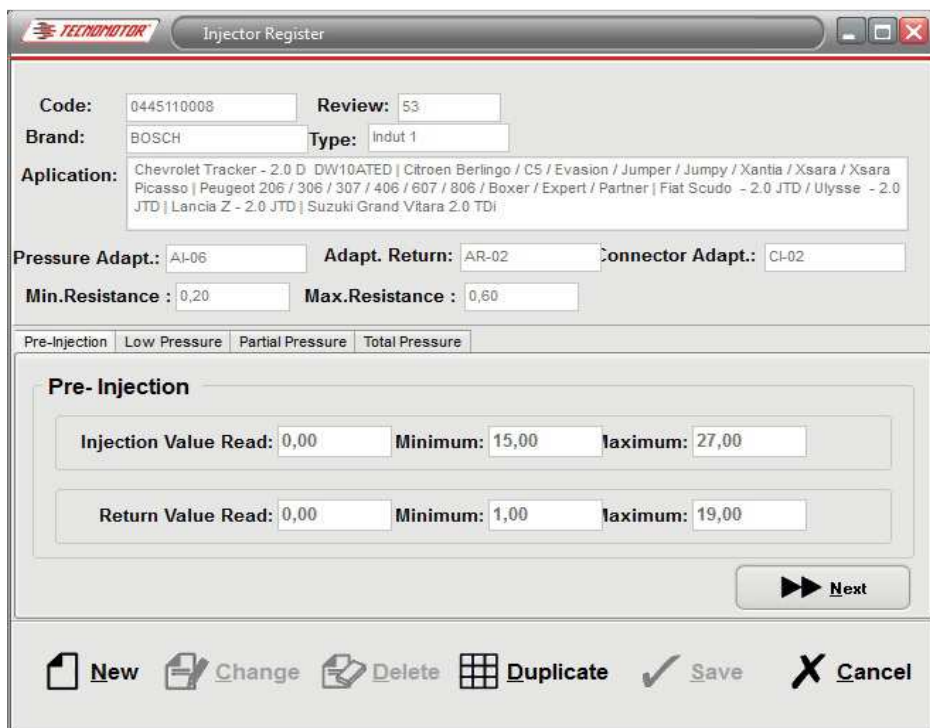
☒ Code ☐ Type

Injectors **Sensors** **Valves** ☐ High ☐ Low **Pumps**

 **Parameters**  **View Table**  **Print Table**  **Update table**

[About TM507-PC](#)

- **Injector registration**



The image shows a screenshot of the 'Injector Register' software window. The window has a title bar with the Tecnomotor logo and standard window controls. The main area contains several input fields for injector registration. The 'Code' field is '0445110008' and 'Review' is '53'. The 'Brand' is 'BOSCH' and 'Type' is 'Indut 1'. The 'Application' field lists various car models: Chevrolet Tracker - 2.0 D, DW10ATED | Citroen Berlingo / C5 / Evasion / Jumper / Jumpy / Xantia / Xsara / Xsara Picasso | Peugeot 206 / 306 / 307 / 406 / 607 / 806 / Boxer / Expert / Partner | Fiat Scudo - 2.0 JTD / Ulysse - 2.0 JTD | Lancia Z - 2.0 JTD | Suzuki Grand Vitara 2.0 TDI. Below this, 'Pressure Adapt.' is 'AI-06', 'Adapt. Return' is 'AR-02', and 'Connector Adapt.' is 'CI-02'. 'Min. Resistance' is '0,20' and 'Max. Resistance' is '0,60'. There are four tabs: 'Pre-Injection', 'Low Pressure', 'Partial Pressure', and 'Total Pressure'. The 'Pre-Injection' tab is active, showing 'Injection Value Read' as '0,00' with 'Minimum' '15,00' and 'Maximum' '27,00'. Below that, 'Return Value Read' is '0,00' with 'Minimum' '1,00' and 'Maximum' '19,00'. A 'Next' button with a double arrow is at the bottom right of the tab area. At the very bottom, there is a toolbar with icons and labels for 'New', 'Change', 'Delete', 'Duplicate', 'Save', and 'Cancel'.

Injector Register

Code: 0445110008 Review: 53

Brand: BOSCH Type: Indut 1

Application: Chevrolet Tracker - 2.0 D DW10ATED | Citroen Berlingo / C5 / Evasion / Jumper / Jumpy / Xantia / Xsara / Xsara Picasso | Peugeot 206 / 306 / 307 / 406 / 607 / 806 / Boxer / Expert / Partner | Fiat Scudo - 2.0 JTD / Ulysse - 2.0 JTD | Lancia Z - 2.0 JTD | Suzuki Grand Vitara 2.0 TDI

Pressure Adapt.: AI-06 Adapt. Return: AR-02 Connector Adapt.: CI-02

Min. Resistance : 0,20 Max. Resistance : 0,60

Pre-Injection Low Pressure Partial Pressure Total Pressure

Pre- Injection

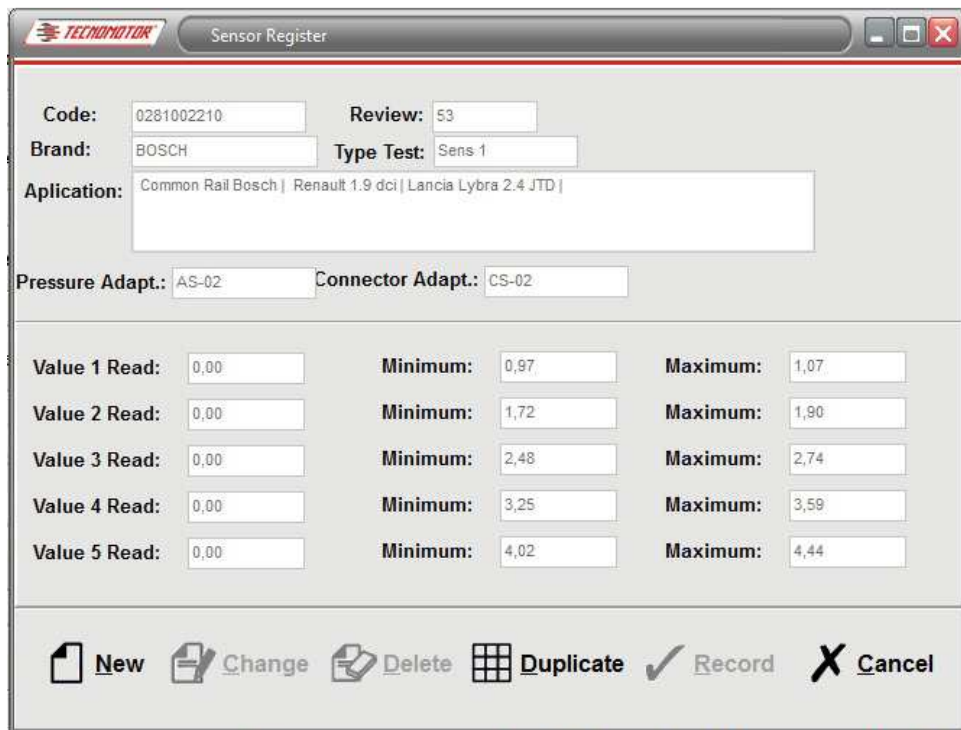
Injection Value Read: 0,00 Minimum: 15,00 Maximum: 27,00

Return Value Read: 0,00 Minimum: 1,00 Maximum: 19,00

Next

New Change Delete Duplicate Save Cancel

- **Sensor registration**



The **Sensor Register** window contains the following fields and controls:

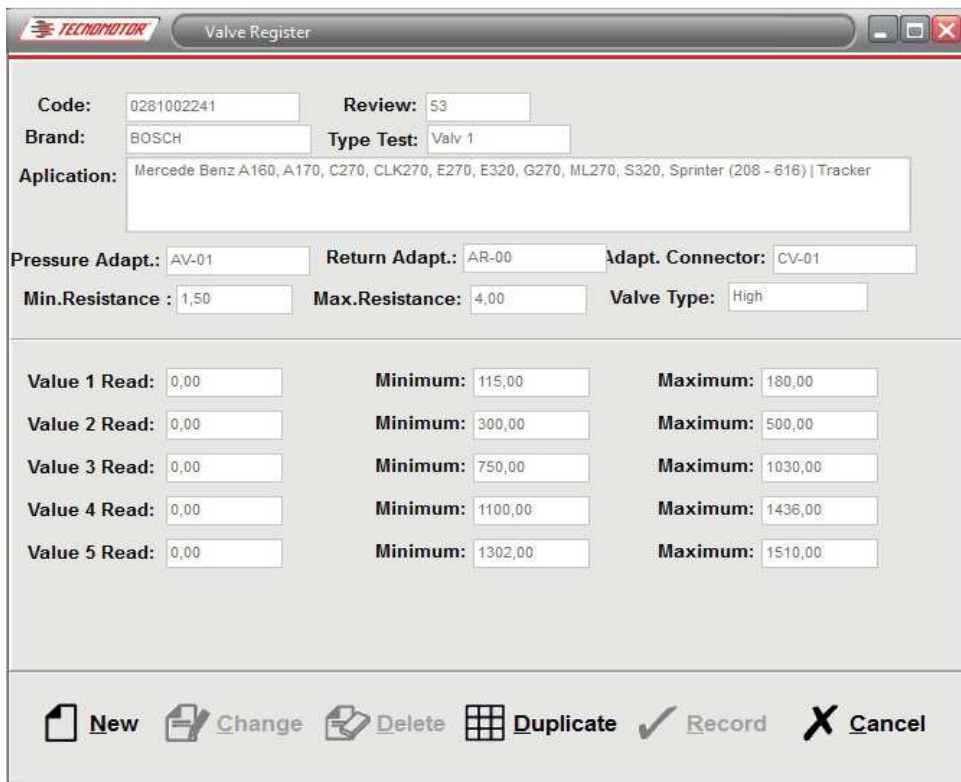
- Code:** 0281002210
- Review:** 53
- Brand:** BOSCH
- Type Test:** Sens 1
- Aplication:** Common Rail Bosch | Renault 1.9 dci | Lancia Lybra 2.4 JTD |
- Pressure Adapt.:** AS-02
- Connector Adapt.:** CS-02

Value Read	Minimum	Maximum
Value 1 Read: 0,00	Minimum: 0,97	Maximum: 1,07
Value 2 Read: 0,00	Minimum: 1,72	Maximum: 1,90
Value 3 Read: 0,00	Minimum: 2,48	Maximum: 2,74
Value 4 Read: 0,00	Minimum: 3,25	Maximum: 3,59
Value 5 Read: 0,00	Minimum: 4,02	Maximum: 4,44

At the bottom of the window, there is a toolbar with the following icons and labels:

- New**
- Change**
- Delete**
- Duplicate**
- Record**
- Cancel**

- Valve registration



The image shows a software window titled "Valve Register" with a Tecnomotor logo in the top-left corner. The window contains several input fields for valve registration data. The fields are organized as follows:

- Code:** 0281002241
- Review:** 53
- Brand:** BOSCH
- Type Test:** Valv 1
- Aplication:** Mercedes Benz A160, A170, C270, CLK270, E270, E320, G270, ML270, S320, Sprinter (208 - 616) | Tracker
- Pressure Adapt.:** AV-01
- Return Adapt.:** AR-00
- Adapt. Connector:** CV-01
- Min.Resistance :** 1,50
- Max.Resistance:** 4,00
- Valve Type:** High

Below these fields is a table with five rows of data:

Value Read	Minimum	Maximum
Value 1 Read: 0,00	Minimum: 115,00	Maximum: 180,00
Value 2 Read: 0,00	Minimum: 300,00	Maximum: 500,00
Value 3 Read: 0,00	Minimum: 750,00	Maximum: 1030,00
Value 4 Read: 0,00	Minimum: 1100,00	Maximum: 1436,00
Value 5 Read: 0,00	Minimum: 1302,00	Maximum: 1510,00

At the bottom of the window is a toolbar with the following icons and labels:

- New (document icon)
- Change (document with pencil icon)
- Delete (trash icon)
- Duplicate (grid icon)
- Record (checkmark icon)
- Cancel (X icon)

- **Pump registration**



The screenshot shows a software window titled "Pump Register" with the Tecnomotor logo in the top-left corner. The window contains several input fields: "Code:" with a text box containing "===> OBS <===", "Review:" with a text box containing "53", "Brand:" with a text box containing "BOSCH", and "Application:" with a text box containing a warning message in Portuguese. Below these are three more input fields: "Rotation:" with "0", "Pressure:" with "0", and "Flow:" with "0". At the bottom of the window is a toolbar with icons and labels for "New", "Change", "Delete", "Duplicate", "Record", and "Cancel".

Code: ===> OBS <=== Review: 53

Brand: BOSCH

Application: OBS: ESTA TABELA É APENAS PARA REFERÊNCIAS DE VALORES DE PRESSÃO, VAZÃO E ROTAÇÃO. OS ADAPTADORES NÃO SÃO CONSIDERADOS.

Rotation: 0 Pressure: 0 Flow: 0

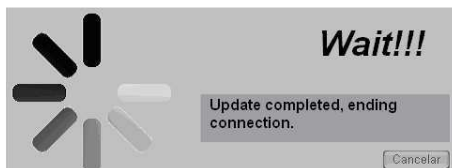
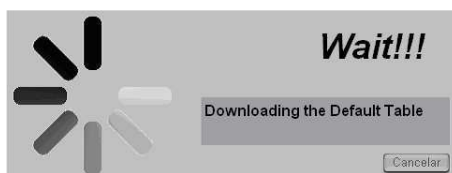
New Change Delete Duplicate Record Cancel

Standard table updating

In order to update the standard data table, the computer should be connected to the internet.

Follow steps below in order to begin the updating of the standard table:

- Click button called "Table" in the main menu;
- Click "Update standard table";
- Wait for the end of updating.



About

Information on the TM 507-III/TM 510 software and equipment are shown in this screen (when there is at least one import), like:

- Software version;
- TM 507-III/TM 510 version;
- Developed by:



Data presented in this manual is based on the most recent information available according to the date it was performed. Therefore, TECNOMOTOR is not responsible for possible errors. Call our technical department with questions.



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