

Recording a Dynamic Water Test / Road Test

- 1
Enter Diagnosis of the chosen system you wish to record data from.
- 2
Click on the Favourites / Filter button.

The screenshot shows the Moto-Tech Diagnostics software interface. At the top, there is a header bar with the TEXA logo, a search icon, and various system icons. Below the header is a navigation bar with tabs for PARAMETERS (1/29), FAULTS, STATUS, ECU INFO, ACTIVATIONS, and SETTINGS. The main area displays a list of parameters with their current values and ranges. A red arrow points to the Favourites/Filter button in the bottom navigation bar.

PARAMETERS	FAULTS	STATUS	ECU INFO	ACTIVATIONS	SETTINGS
Engine speed					
Vehicle speed					
Injection duration					
Ignition Timing Advance					
ISC valve					
Battery voltage					
Throttle valve position sensor					
Throttle angle sensor 1					
Accelerator position sensor					

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3
Choose / Create or edit a tab with the data you wish to record.

The screenshot displays the Moto-Tech Diagnostics software interface. At the top, a header bar shows the 'TEXA' logo, a user profile icon, and various system icons. The main area is divided into a blue 'STANDARD GROUP' header and a list of sensors. The sensors listed are: Engine speed (0.000 rpm), Coolant temperature (28.000 °C), Air intake pressure bank 1 (0.000 kPa), Air intake pressure bank 2 (0.000 kPa), Throttle angle sensor 1, Atmospheric pressure sensor, and Throttle valve position sensor. A configuration window is open, showing a list of sensors with checkboxes. The checked sensors are: Air intake pressure bank 1, Air intake pressure bank 2, Atmospheric pressure sensor, and Coolant temperature. The bottom navigation bar contains icons for back, add, edit, delete, print, min/max, record, and a filter icon. A search bar at the bottom right contains the text 'type here to filter'. Red arrows point to the user profile icon, the 'add' icon, and the 'filter' icon.

Sensor Name	Value
Engine speed	0.000 rpm
Coolant temperature	28.000 °C
Air intake pressure bank 1	0.000 kPa
Air intake pressure bank 2	0.000 kPa
Throttle angle sensor 1	
Atmospheric pressure sensor	
Throttle valve position sensor	

Sensor Name	Unit
<input type="checkbox"/> Accelerator position sensor	V
<input type="checkbox"/> accelerator position sensor 1	°
<input checked="" type="checkbox"/> Air intake pressure bank 1	kPa
<input checked="" type="checkbox"/> Air intake pressure bank 2	kPa
<input checked="" type="checkbox"/> Atmospheric pressure sensor	kPa
<input type="checkbox"/> Battery voltage	V
<input checked="" type="checkbox"/> Coolant temperature	°C
<input type="checkbox"/> Cruise Control set speed	km/h
<input type="checkbox"/> EGO sensor 1 voltage	V

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Click on the Road Test / Water Test button.

The screenshot displays the Moto-Tech Diagnostics software interface. At the top, there is a header with the TEXA logo, a user profile icon, and various system icons. Below the header, the main area shows a list of engine parameters with their current values and change indicators. A red arrow points from the instruction text to a button in the bottom navigation bar, which is highlighted with a red square. The button icon represents a hand holding a tool, indicating a test or diagnostic function.

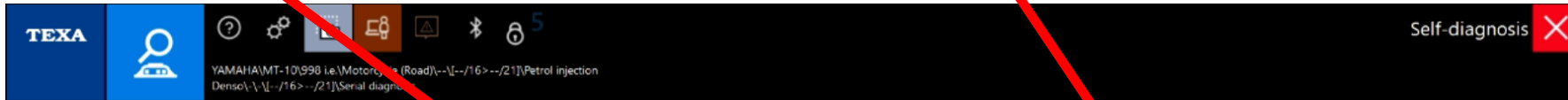
Parameter	Value
Engine speed	0.000 rpm
Injection duration	0.000 ms
Ignition Timing Advance	0.000 °
ISC valve	0.000 %
Battery voltage	0.000 V
Throttle valve position sensor	0.762 V
Throttle angle sensor 1	2.930 °
accelerator position sensor 1	0.000 °
EGO sensor 1 voltage	0.254 V

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The configuration is being sent to the TXB. Click the question mark for more instructions/information.
Click on the green tick button to continue



The device will now be configured in the "Dynamic Tests" mode, sampling the parameters selected in the current group of favourites".



Instructions shown if you clicked on the question mark button.

Scroll up or down using the side bar. Press Red X to exit instructions.

HELP GUIDE: DYNAMIC TESTS

This function allows you to configure the diagnostic tool for the recording of the parameters and errors detected by the control units of a moving vehicle / boat.

Dynamic Tests only records the errors that occur when the vehicle / boat is being used and it monitors the parameters in situations that cannot be repeated in a workshop.

An example of a possible use is the following:

1. The mechanic configures the tool for the recording and returns the vehicle / boat to the customer.
2. The customer uses the vehicle / boat for a set period time and then returns to the workshop.
3. The mechanic consults the recordings and, thanks to the information that was acquired, repairs accordingly.

Configuration and recording

The recording mode can be launched only after creating a new diagnosis.

The parameters recorded during the test are the same as those recorded during the configuration.

Proceed as follows:

1. Press
2. Follow the instructions that appear on-screen.
3. Press
2. Enter the license plate number when requested.
3. Follow the instructions that appear on-screen.
4. Press
2. Disconnect any USB cable that connects the tool to the PC.

The tool restarts in order to end the configuration procedure.

At the end of the diagnostic tool configuration procedure, the diagnosis closes automatically and you may start the test with the vehicle / boat moving.

The flash of the green LED confirms that the data recording was successful.

Be sure to position the tool and the cable so that they do not compromise safe driving / boat control nor the driver's safety. In particular, do not place the tool in the airbag expansion area.

For further information, see the tool's technical manual.

The tool continues recording the data until a new diagnosis is launched (or any other software activity that involves the tool).

If the communication with the control unit is missing for more than one hour (fixed green LED), the tool goes into standby mode and emits a warning sound.

You must disconnect it and reconnect it to the diagnostic socket in order to re-enable the recording mode.

The trips

The recorded data is organised in **trips**.

The recording of a **trip** starts when:

- the tool is connected to the diagnostic socket and the key is in the run position;
- the tool is connected to the diagnostic socket and the vehicle / boat is ready to be started, with or without an electronic key.

The recording of a trip ends when the instrument panel on the vehicle / boat is turned off or after 8 consecutive hours of recording.

After these 8 hours, the tool emits a warning sound.

You must disconnect it and reconnect it to the diagnostic socket in order to re-enable the recording mode.

Storage and display of the trips

In order to save and view the trips through the software, simply connect the tool to a PC and start the diagnosis.

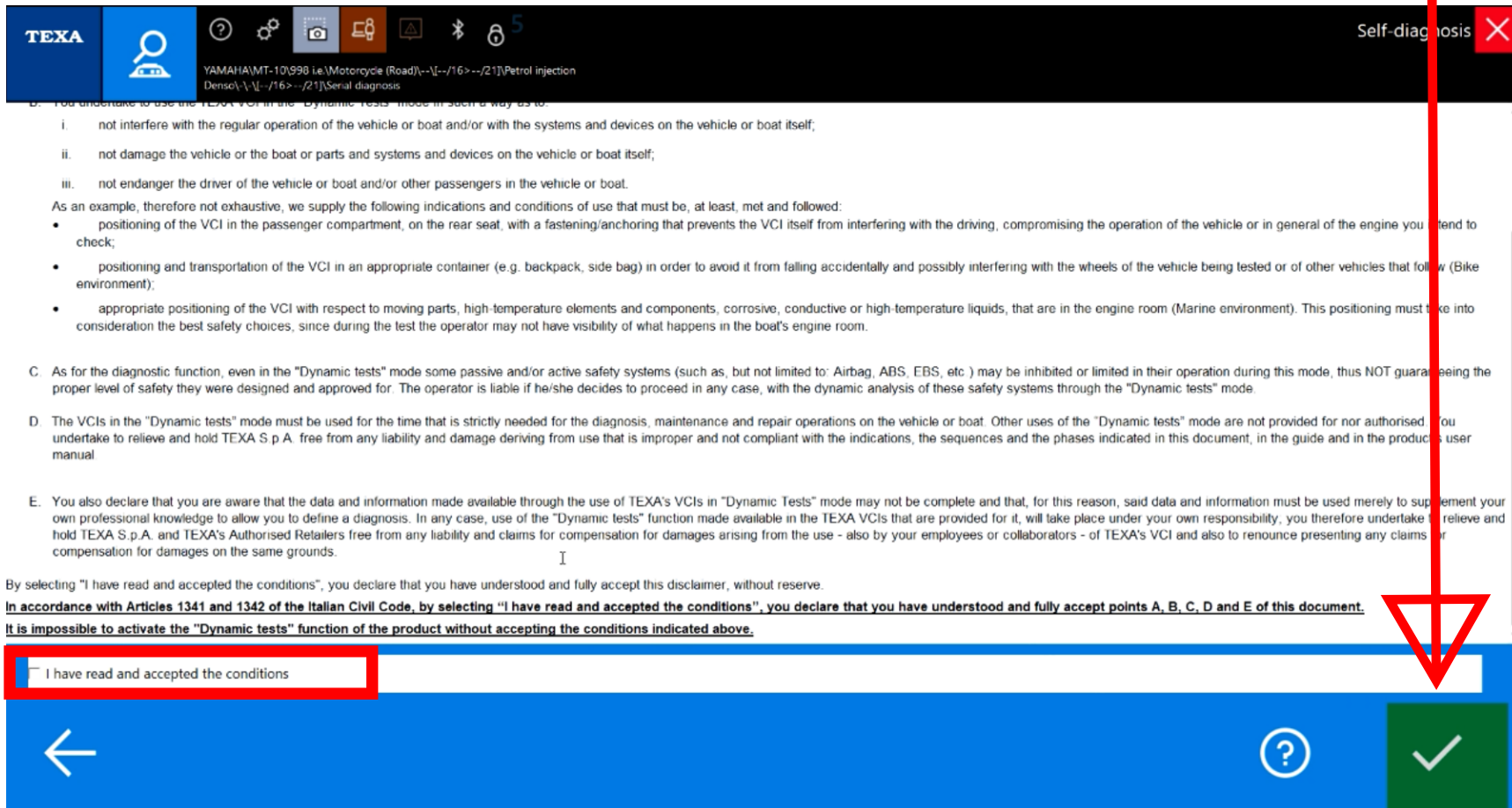
The storage of the trips is mandatory in order to continue using the diagnostic functions.

At the end of the storage, the software allows you to either view the saved trips or to launch the diagnosis normally.

You may view the saved trips subsequently through **Customer Management**.

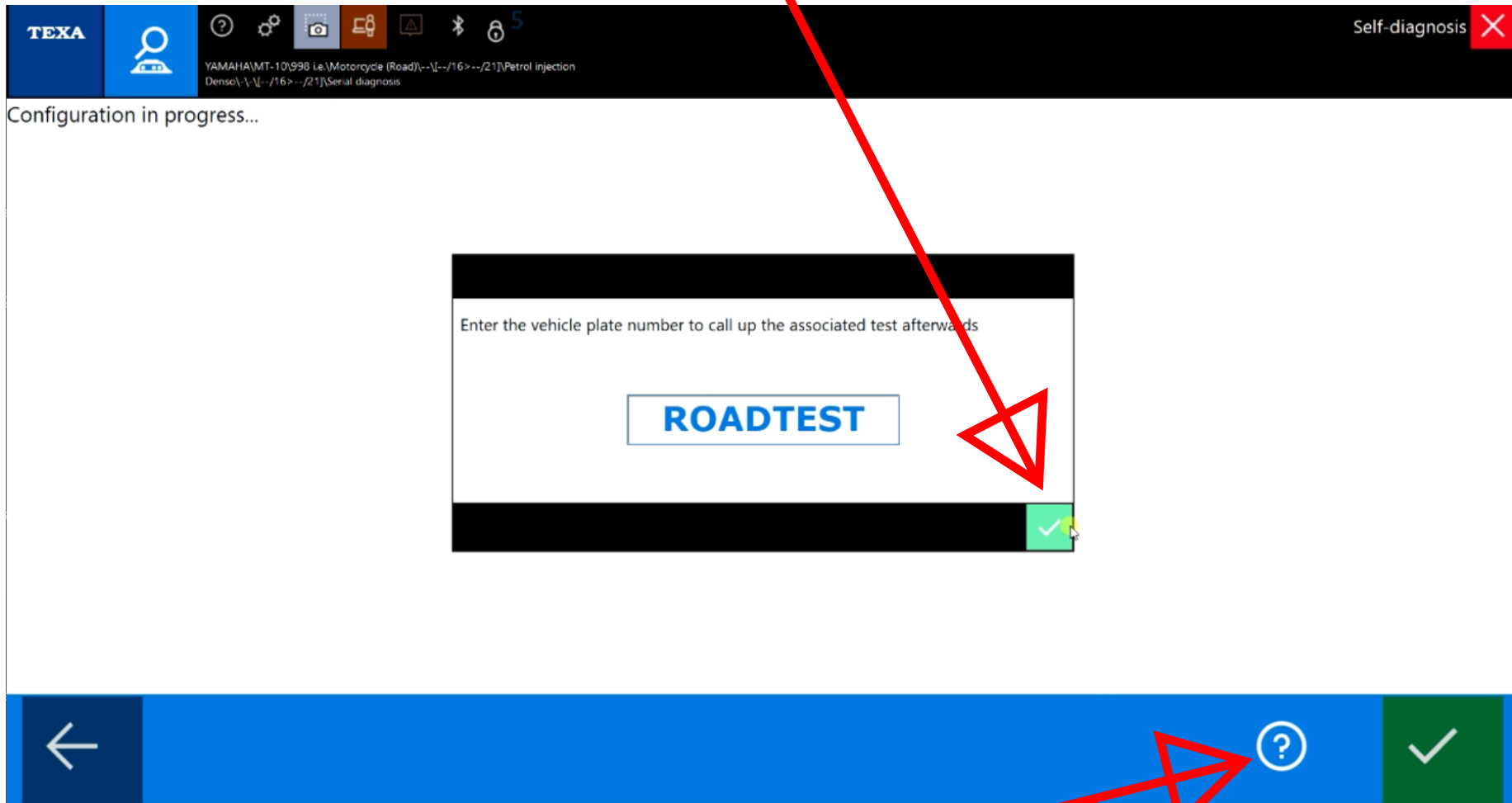
6

When you have pressed the green tick from part 5, accept the conditions then press the green tick to proceed. You also have the option to press the question mark button to view the instructions again.



7

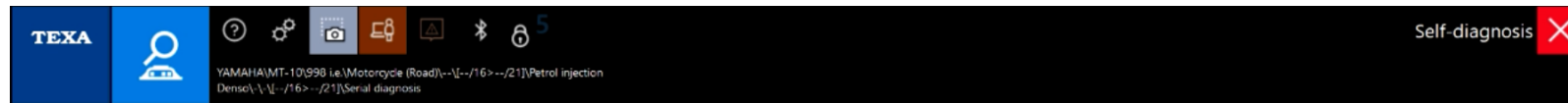
Follow the on screen instructions. Enter a name/rego/ID which will be used to reference the tests later in the client database. Press the small green tick.



The instructions are available again by clicking on the question mark after you have entered the vehicle/client id.

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Further instruction / explanation is provided for you about the next stage. Please read carefully.



Configuration completed successfully.

Tool configured in "Dynamic tests" mode.

After turning the key to ON or putting the vehicle, without key or with an electronic key, in the condition to be started, wait 60 seconds before starting the actual test.

Press CONFIRM to close the Self-diagnosis automatically. Disconnect any USB cable.

Remember that:

1. The device is ready for the dynamic test on the vehicle / boat that has just been configured and it will remain in this status until the following diagnostic session.
2. The recording will be started each time the following conditions are present simultaneously:
 - a. Device (VCI) connected to the diagnostic socket
 - b. Key in run position or vehicle / boat ready to be started, with or without electronic key.
3. You may recover and save the recordings made by running a new diagnosis on the vehicle.
4. You may view the saved recordings through the "Customer Management" function.
5. For further details regarding the "Dynamic Tests" function, see the Help section available in the software within the function itself.



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Press the green tick to continue. Instructions are available again to you here by pressing the question mark.

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Your TXB will now be beeping indicating that it is in recording stage. Note the recommended 60 second delay before starting your test.

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Once your test is completed, keep ignition on and engine running. Generally, the txb obtains power from the diagnostic socket. In some systems power is cut to the TXB if ignition is off.

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Start diagnosis again from IDC5.

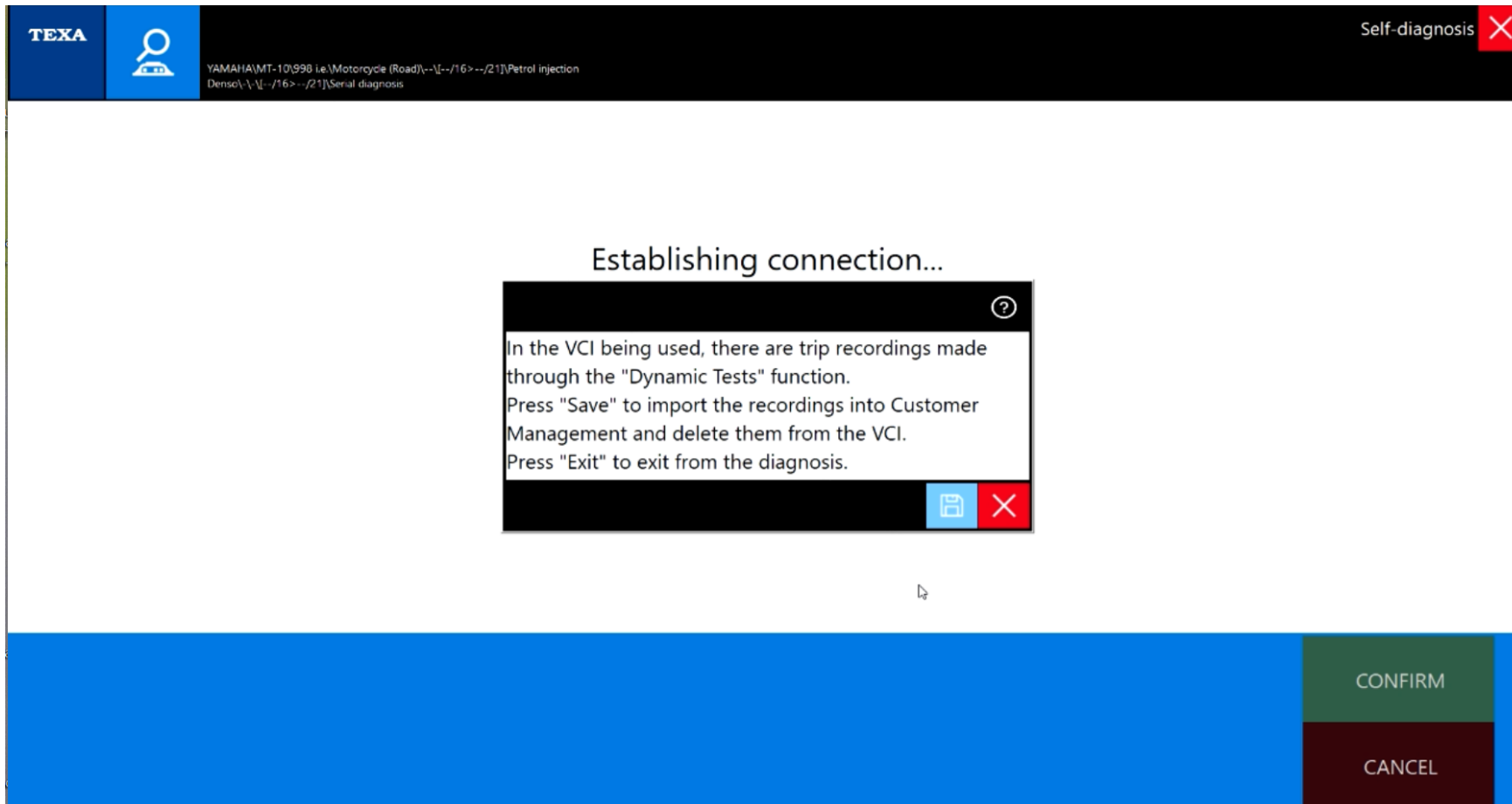
The screenshot displays the TEXA diagnostic software interface. The top navigation bar includes the TEXA logo, a motorcycle icon, and a breadcrumb trail: Menu > Diagnosis > Motorcycles > YAMAHA > MT-10 > 998 i.e. > Motorcycle (Road) > [---/16>---/21]. The main content area is titled 'Self-diagnosis' and shows a 'VCI connection: SMART' status. Under 'Global system scan', there is a 'Global Scan' button. Under 'Diagnosis by system', there are buttons for 'ABS', 'Cruise Control', 'Petrol injection', and 'Traction control'. The 'Petrol injection' option is highlighted in blue and includes a 'START' button and a 'Serial diagnosis' button. The bottom of the screen shows 'Denso [--- / 16>--- / 21] · Serial diagnosis'.

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Once connected to your TXB via bluetooth or USB, the software recognizes that there is recorded data available to download from the TXB. Follow the on screen instructions.



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The data is recorded as "trips" (**NOTE: Advanced feature** - you can actually create more than one trip in a session by turning ignition on and off - bear in mind the previous information about systems that do not provide permanent power to the txb while the ignition is off, and the direction to wait 60 seconds after a "trip" recording has been initialised)
Click on the trip date log, the recorded "trip/s" will be displayed below.

TEXA Licence Plate ROADTEST Trip data viewer X

Trip log

31 January 2024

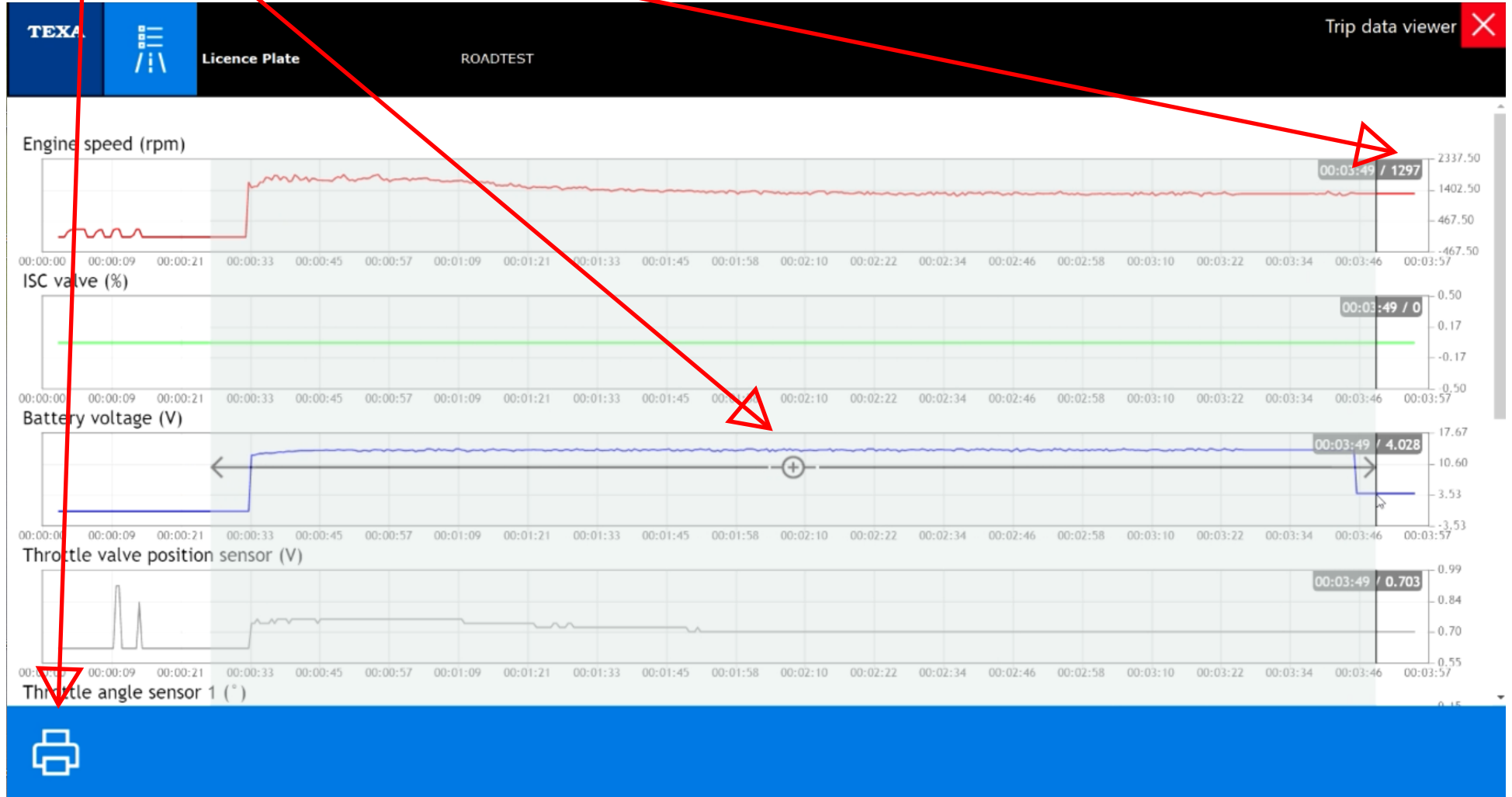
Start of trip	End of trip	Number of errors
17:36	17:40	0

Select the trip to analyse

ICON	NAME	DESCRIPTION
	View	It allows viewing the selected trip graphically
	DTC	It allows viewing the list of DTCs detected during the trip
	Export	It opens a Windows folder allowing to save the selected trip data in a file in .csv format for further processing (e.g. with Excel) or sending it to TEXA technical assistance

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View -
print - zoom selection - value at cursor time/data value



Export -
Save data to CSV file. - Export to excel/create your own graphs etc etc.

The screenshot displays the Moto-Tech Diagnostics interface with several windows open. On the left, a 'Save As' dialog box is open, showing the file name 'mt10 roadtest.csv' and the save location as 'Desktop'. In the center, a 'Trip log' window shows a list of trips with columns for 'Start', 'End', and 'Duration'. The selected trip is highlighted in blue. On the right, a 'Notepad' window displays the contents of the saved CSV file, which includes trip parameters and a detailed data table. The data table has the following structure:

RELATIVE TIME (SECONDS SINCE START OF TRIP)	DETECTION TIME	Engine speed	Injection duration	Ignition timing	Throttle position sensor	Throttle angle sensor	accelerator position sensor 1	EGO sensor	Temperature	Intake air temperature	Atmospheric pressure sensor	Short term	Short term	Short term	Short term	Short term	Short term	Short term	Short term
UNIT OF MEASUREMENT:	%	rpm	ms	%	V	V	V	V	°C	°C	kPa	%	%	%	%	%	%	%	%
0,50	17:36:17 (0 ms)	0,000	2,000	6,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,000
1,00	17:36:17 (500 ms)	0,000	2,000	6,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,000
1,50	17:36:18 (0 ms)	0,000	2,000	6,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,000
2,00	17:36:18 (500 ms)	0,000	2,000	6,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,000
2,50	17:36:19 (0 ms)	0,000	2,000	6,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,000
3,00	17:36:19 (500 ms)	0,000	2,000	6,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,625	0,000	0,000	0,000	0,000