



Diagnostic Tool User's Guide

This document provides an overview of the Kawasaki Diagnostic Tool PC application.

For the mobile app user's guide, click [here](#).

Prerequisites

The Kawasaki Diagnostic Tool runs on Windows Vista or newer. A dual core or greater PC is required.

If Microsoft .NET 4.5 is not installed, it will be installed automatically.

Viewing service documents requires the Adobe Acrobat Reader. It can be downloaded from Adobe [here](#).

Installation

Download the Kawasaki Diagnostic Tool PC application installer executable from [here](#).

Once downloaded, run the installer executable and click through the wizard.

When installation is finished, the application will automatically launch for the first time. Click OK in the "What's New" dialog, and the registration dialog will be shown. Enter your dealer contact information here and select Continue.

Registration will require an internet connection. Be sure to provide an email address that's readily accessible to you.

The provided email address should then receive a confirmation email. Click the link in the email to register and activate the software. You should be directed to a web page that says "Your Kawasaki Diagnostic Tool is now registered and can be used."

The software can be run no more than 10 times without registration.

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Registration

Enter all of the information below, then select Continue. The email address you provide will be used for confirmation to register the software.

Dealer Name	Enter Name
Address	Enter Address
Address 2	Enter Address
City	Enter City
State/Prov	Enter State/Province
Country	Enter Country
Zip/Postal Code	Enter Zip/Postal Code
Phone	Enter Phone Number
Email	Enter email address

Continue >

Connection

Connect the Kawasaki Electronic Interface (KEI) module to a USB port on the PC. Connect the adapter cable to the KEI and to an engine. Switch the engine ignition to the On position.

Engine Selection

The Engine Selection screen is shown initially when the application is launched.

To automatically select the engine,

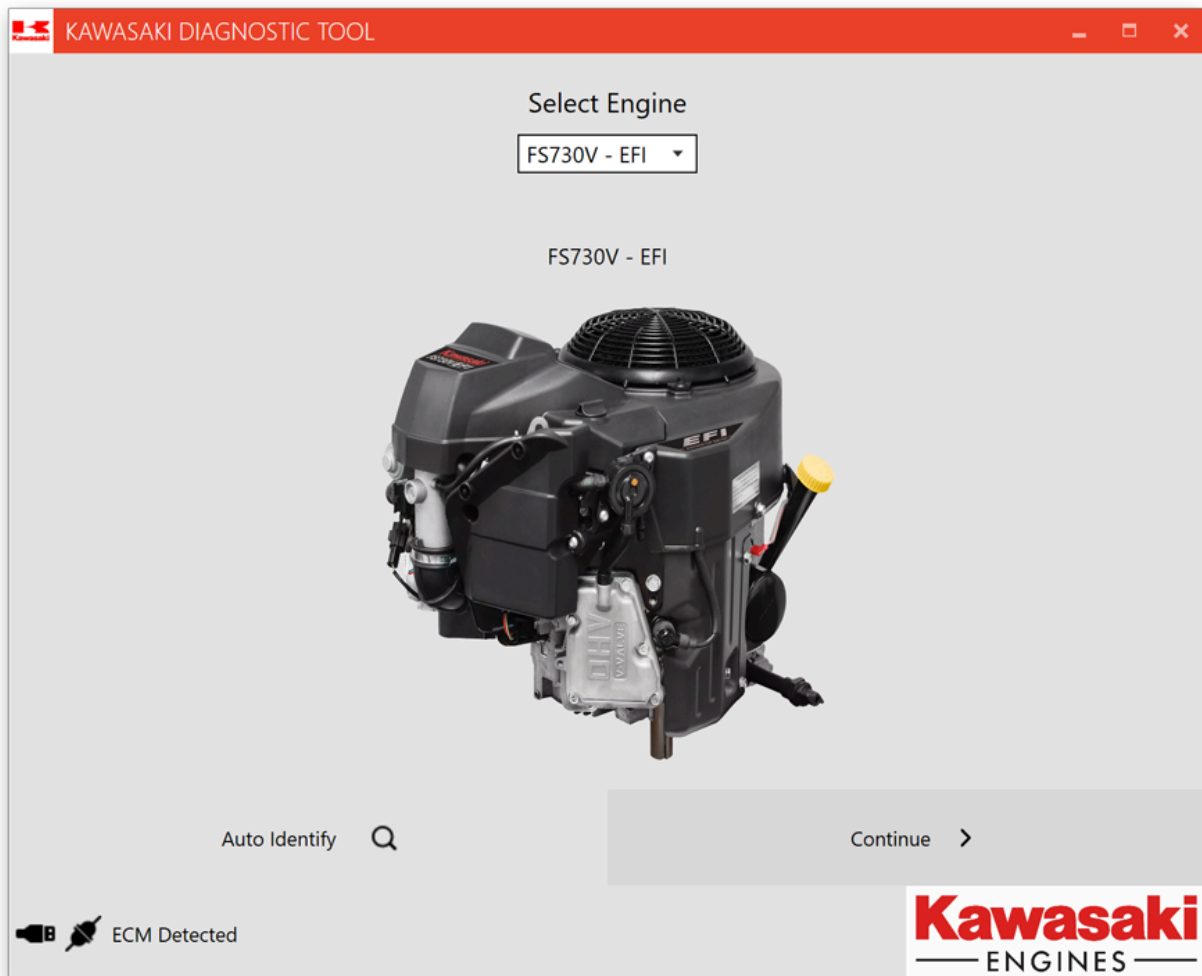
☒ Make sure the KEI is connected and the engine on. "ECM Detected" should be shown in the lower left corner of the screen.

☒ Click "Auto Identify". If the engine is identified, the Main Menu screen should appear.

To manually select the engine,

☒ Select the model from the Select Model drop down list.

☒ Click Continue, and the Main Menu will be shown.



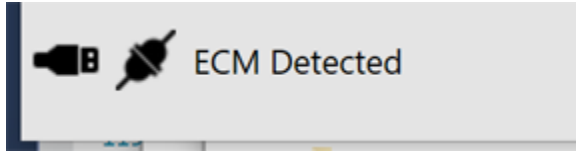
Main Menu

The Main Menu screen is shown after the engine is selected. All available functions can be accessed from this screen by clicking on the icons.

The left arrow button at the upper left acts as a “Back” button for a given screen. On the Main Menu, it will back out to the Engine Selection screen. The currently selected engine is shown next to it.



The icons in the lower left corner indicate whether the Kawasaki Electronic Interface (KEI) module is connected via USB or Bluetooth, and whether an engine is connected to the KEI and the ECU is communicating properly. Here's how it should look when everything is connected via USB and the ECU is on and functioning:



Trouble Codes

Active and Inactive trouble codes are listed on the Trouble Codes screen. The Clear Codes button at the bottom center will clear codes.

❓ Click on a code to show documentation applicable to that code. An internet connection is required for this function. If available, additional documentation can be shown by clicking on the Information icon next to “Active” or “Inactive” for that code.

❓ Click the “Back” button in the upper left to return to the Main Menu.



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Diagnostic Trouble Codes

P0231	(SPN 1075, FMI 4) Engine Electric Lift Pump for Engine Fuel Supply Short Circuit to Ground	Inactive		
P0202	(SPN 652, FMI 5) Engine Injector Cylinder #2 Open Circuit	Inactive		
P0201	(SPN 651, FMI 5) Engine Injector Cylinder #1 Open Circuit	Inactive		
P0118	(SPN 110, FMI 3) Engine Temperature Sensor Short Circuit to Power	Inactive		

Clear Codes



ECM Detected



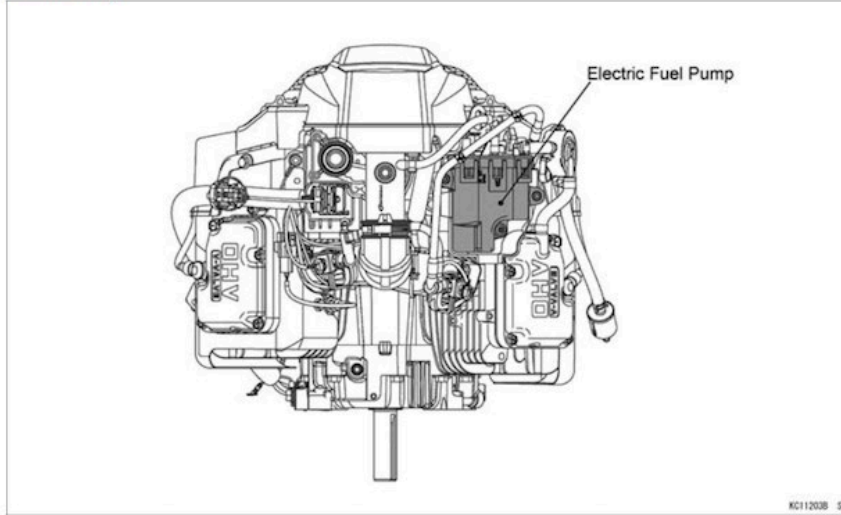
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P0231 - (SPN 1075, FMI 4) Engine Electric Lift Pump for Engine Fuel Supply Short Circuit to Ground

3-36 FUEL SYSTEM (EFI)

Troubleshooting Procedures for EFI System

Fuel Pump



ECM Detected

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P0231 - (SPN 1075, FMI 4) Engine Electric Lift Pump for Engine Fuel Supply Short Circuit to Ground

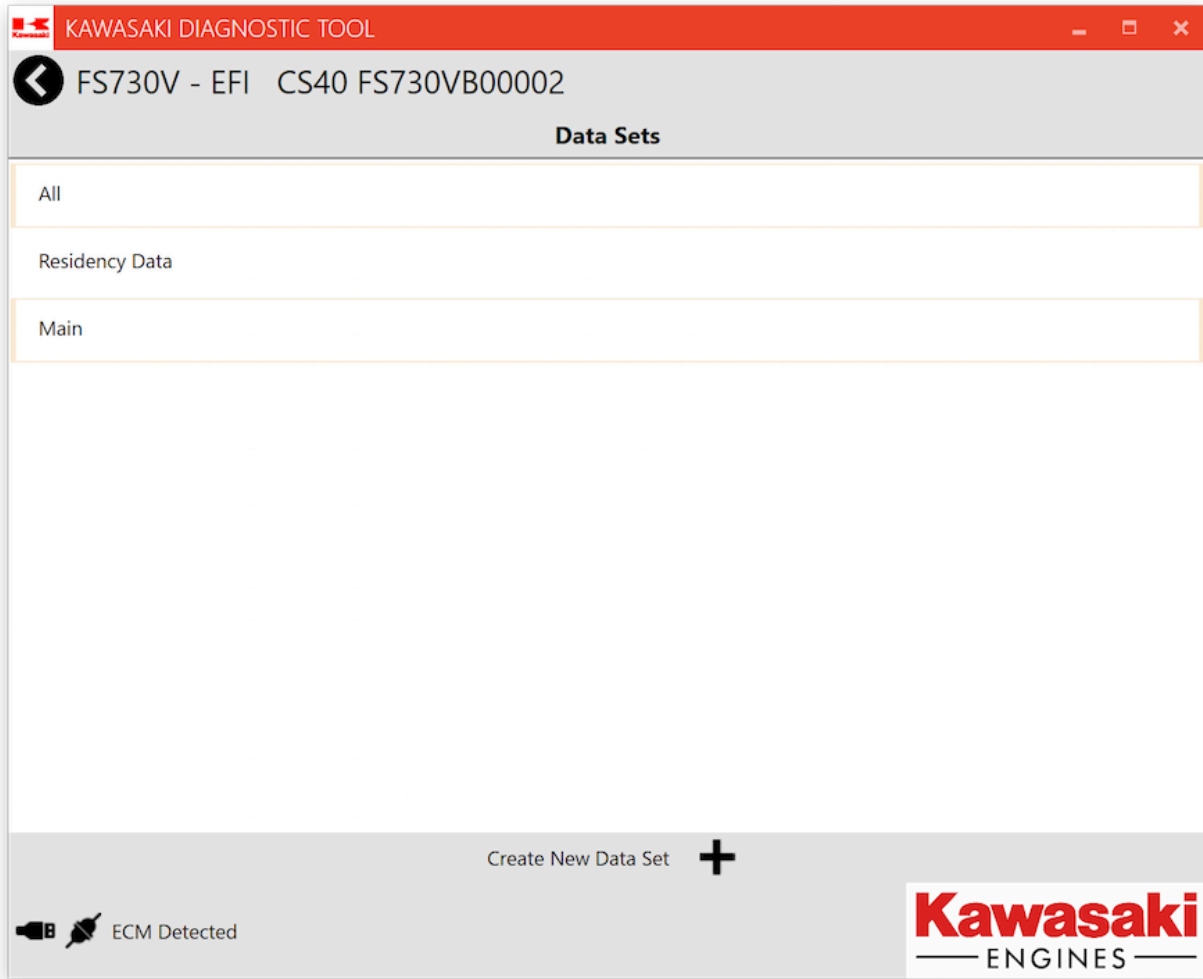
Fuel System Status Bank 0	OL_CDN
Fuel System Status Bank 1	OL_CDN
Calculated Load	0 %
Engine Temperature	-30 °C
Lamba Control Inj Time Corr Bank 0	-0.78 %
Relative Adapt Corr Scan Tool Bank 0	0 %
Lamba Control Inj Time Corr Bank 1	0 %
Relative Adapt Corr Scan Tool Bank 1	0 %
Intermediate MAP	99 kPa
Engine Speed OBD	0 RPM
Vehicle Speed	0 kph

ECM Detected

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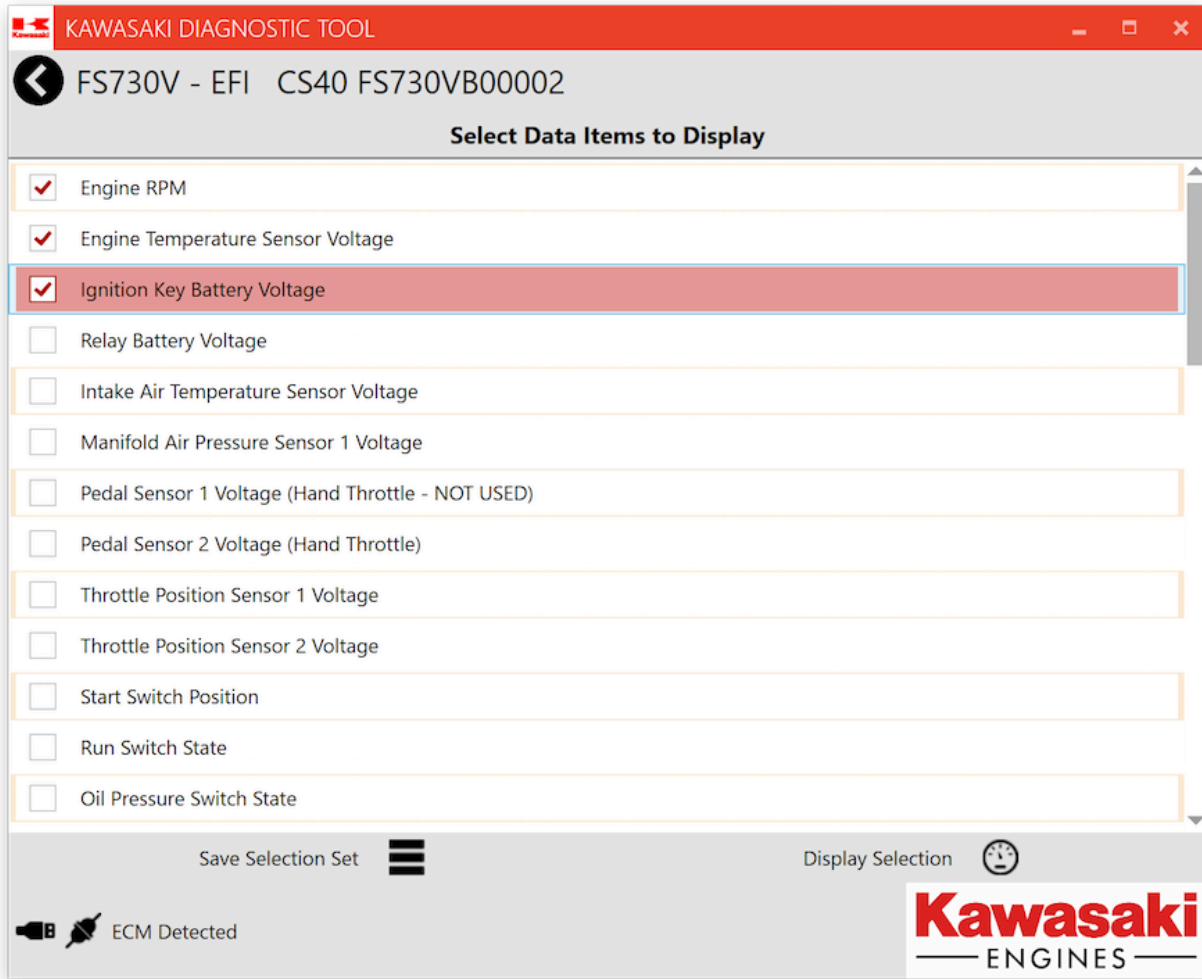
Live Data

The Live Data button the Main Menu will show available Data Sets. There are three built-in data sets available – All, Residency and Main.



❓ Create New Data Set to add a custom set. Check the items desired.

❓ Click Save Selection Set to save the set for later, or click Display Selection to show the items without saving the set.




[All Available Data Items List](#)


🔍 Click the Window button at the right of each data item to show that item in a separate window.

🔍 Click the Chart button at the right to show the data item in a live chart.



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Engine RPM	0 RPM	 
Engine Temperature Sensor Voltage	4.99 V	 
Ignition Key Battery Voltage	12.19 V	 

Start Record 



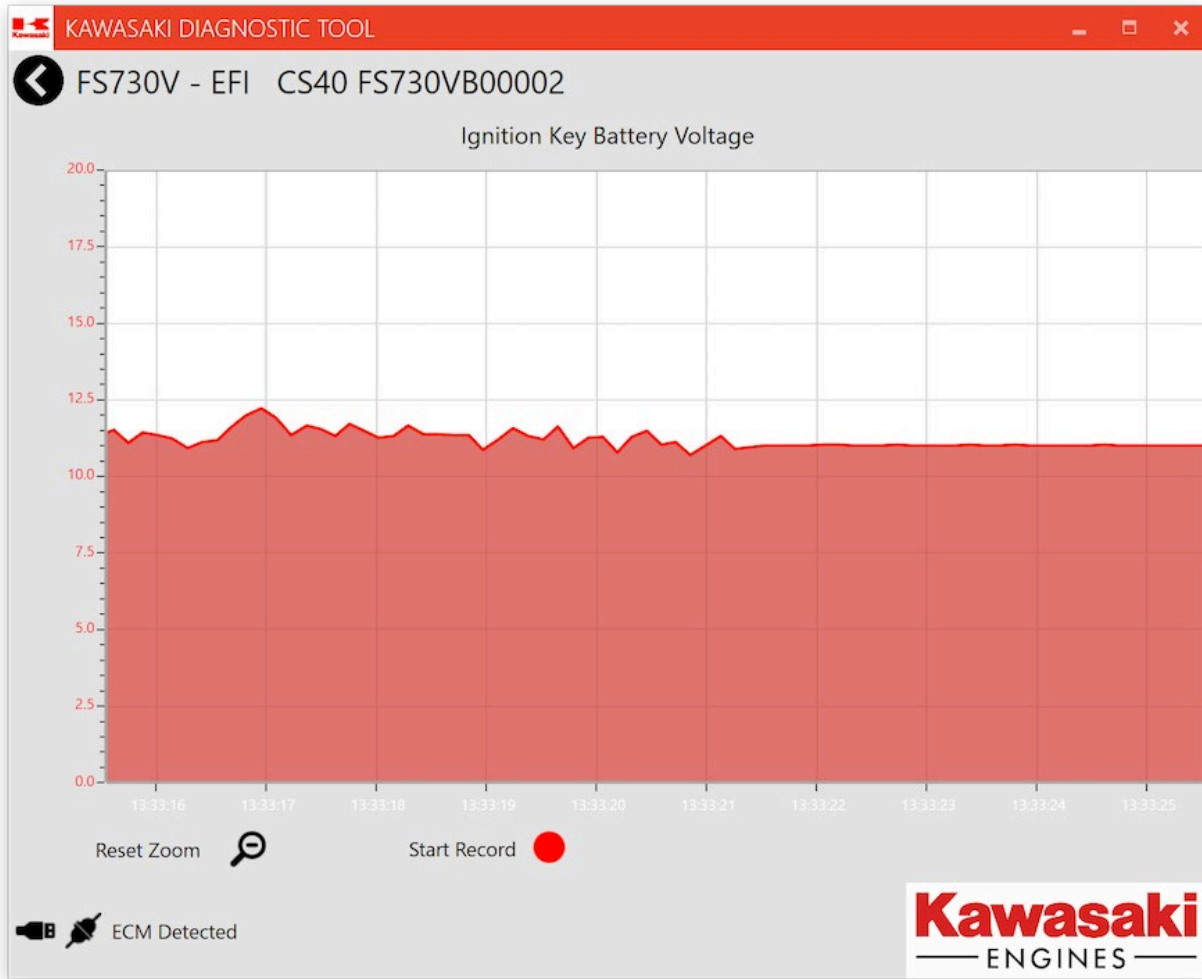
ECM Detected



12.19

V

Ignition Key Battery Voltage



Data Recording

If a custom data set has ten or fewer items, the data set can be recorded.

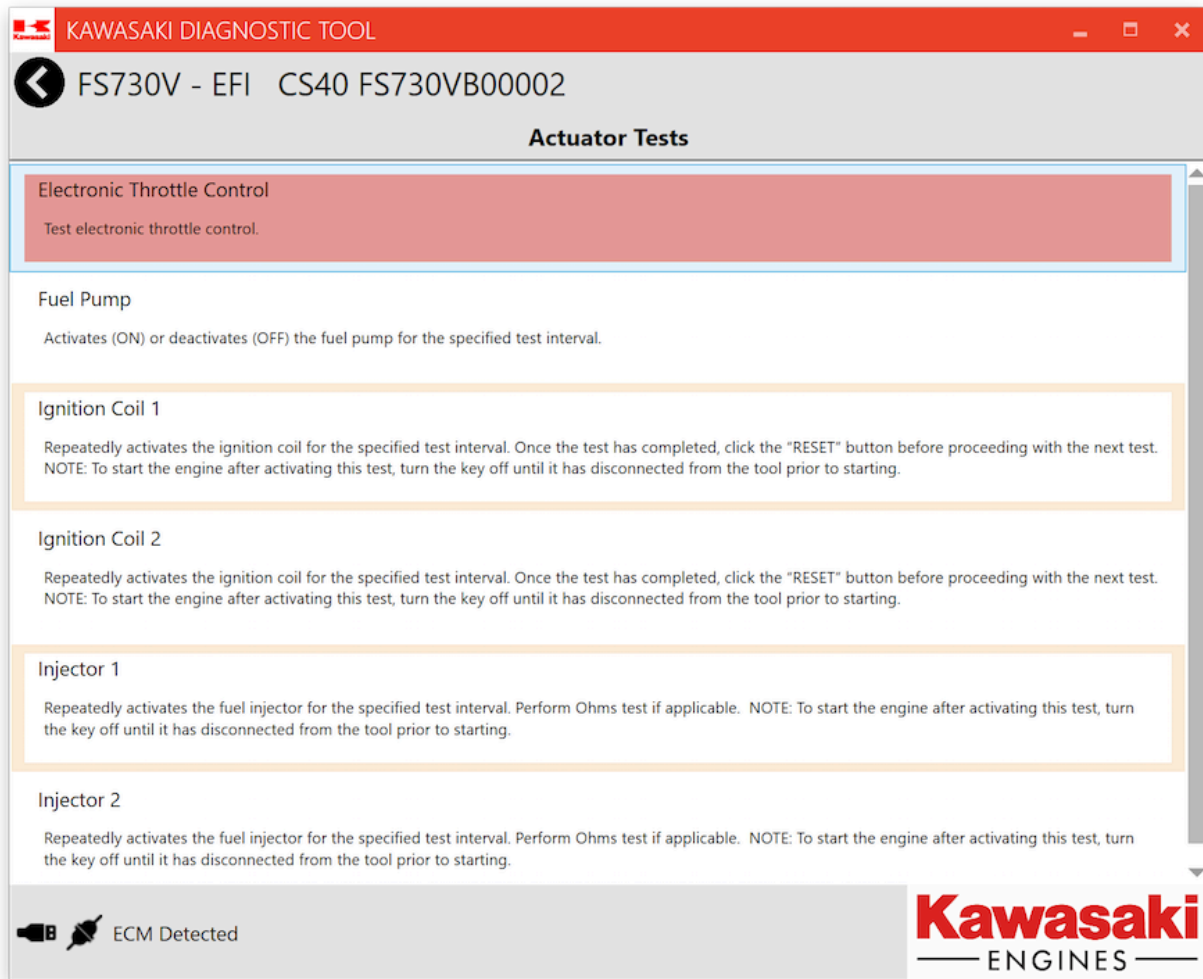
☐ A single data item can also be recorded from the Chart view.

☐ Click on Start Record to start the recording. The recording button will flash while recording is in progress. Click it again to stop recording. The saved recording can then later be viewed under Data Archives.

Tests

The Tests screen shows a list of all available actuator tests.

🔗 Click on an item in the list, then click Activate to run the test.



Read Data

The Read Data screen reads and displays all available ECU information.

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Read Data

N_CID	Z05000UTRX850XAA
CKSBOOT	0C 13 BD 0A
CKSECU	31 C4 9E 9A
CKSCAL	E8 6B A0 3A
Main HW Number (MHN)	111-T001_C,1623600009,1707300056
SSECUSVN	QZ050010
NVMYProgStationOrganization	00 00 00 00 00 00
N_VCOD	00
EOL_PRG	FF FF FF FF FF FF FF FF FF FF FF FF FF FF FF
ICT	Tuesday, March 14, 2017 1:52:13 PM
Prog Date	Monday, May 1, 2017 12:59:12 PM
Vehicle Identification Number (VIN)	FS730VB00002-CS40

ECM Detected

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Data Archives

Saved recordings can be viewed on the Data Archives screen.

- 🔍 Click on the listing to show the recorded data in a chart.
- 📄 Click on the Excel icon to export the data as an Excel spreadsheet.
- 🗑️ Click on the Trash icon to delete the recording.



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Saved Data Archives

recording FS730VB00002CS40 Engine RPM (13:40:54 01/15/2018)



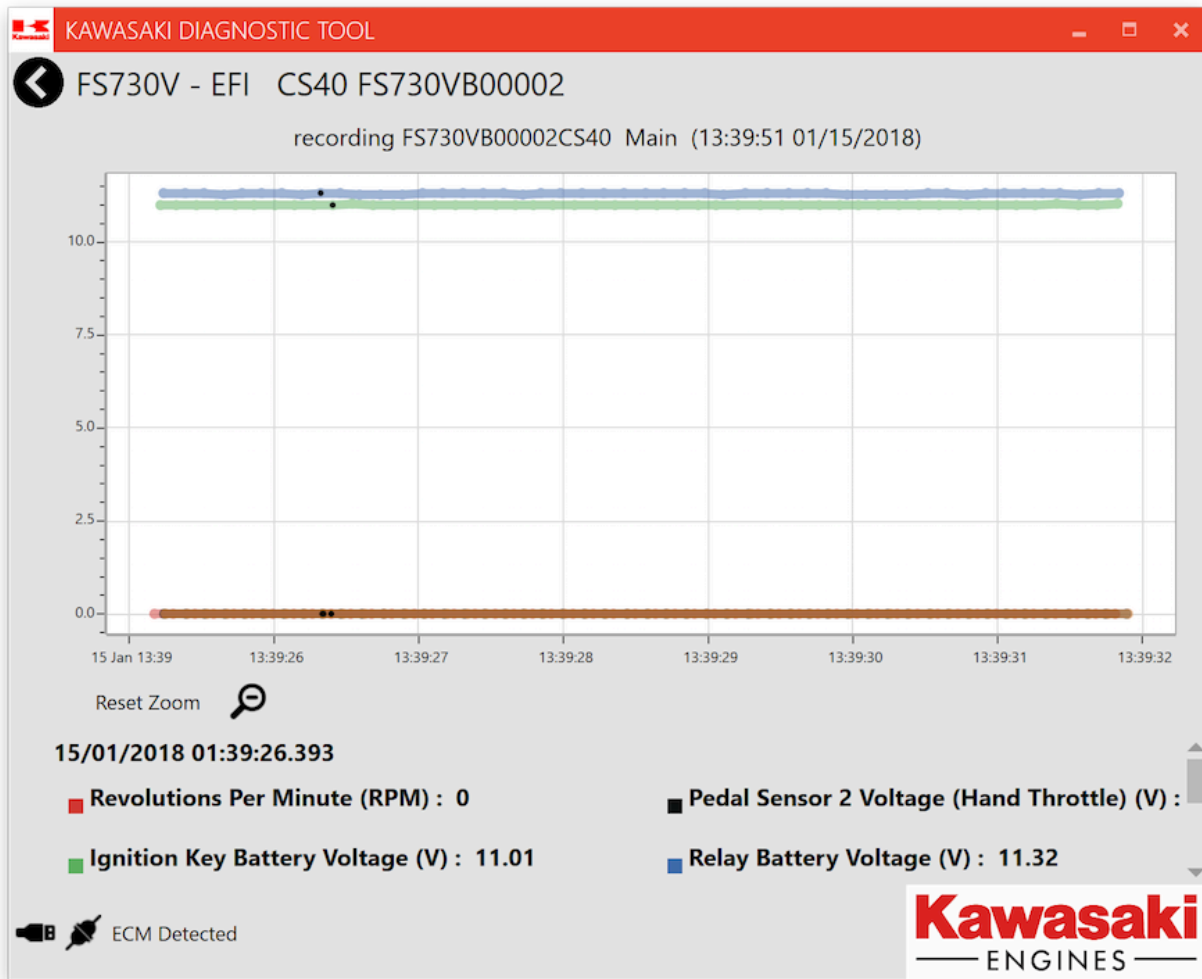
recording FS730VB00002CS40 Main (13:39:51 01/15/2018)



recording FS730VB00002CS40 Main (13:40:11 01/15/2018)



ECM Detected



Reports

A printable service report can be generated and viewed on the Reports screen.

- 🔍 Click on the listing to show an existing archived report.
- 🔍 Click on New Report to gather data and generate a new report.
- 🗑️ Click on the Trash icon to delete a report.



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Reports

FS730VB00002 - 1/15/2018 1:43 PM - FS730V - EFI



New Report +



ECM Detected




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Report

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Engine Diagnostic Report

1

1/15/2018 1:43 PM


TROUBLE CODES:

Code:	Description:	Status
P0231	(SPN 1075, FMI 4) Engine Electric Lift Pump for Engine Fuel Supply Short Circuit to Ground	Inactive
P0202	(SPN 652, FMI 5) Engine Injector Cylinder #2 Open Circuit	Inactive
P0201	(SPN 651, FMI 5) Engine Injector Cylinder #1 Open Circuit	Inactive
P0118	(SPN 110, FMI 3) Engine Temperature Sensor Short Circuit to Power	Inactive

SENSOR INFORMATION:

Description:	Value:	Units:
Engine RPM	0	RPM

ECM Detected



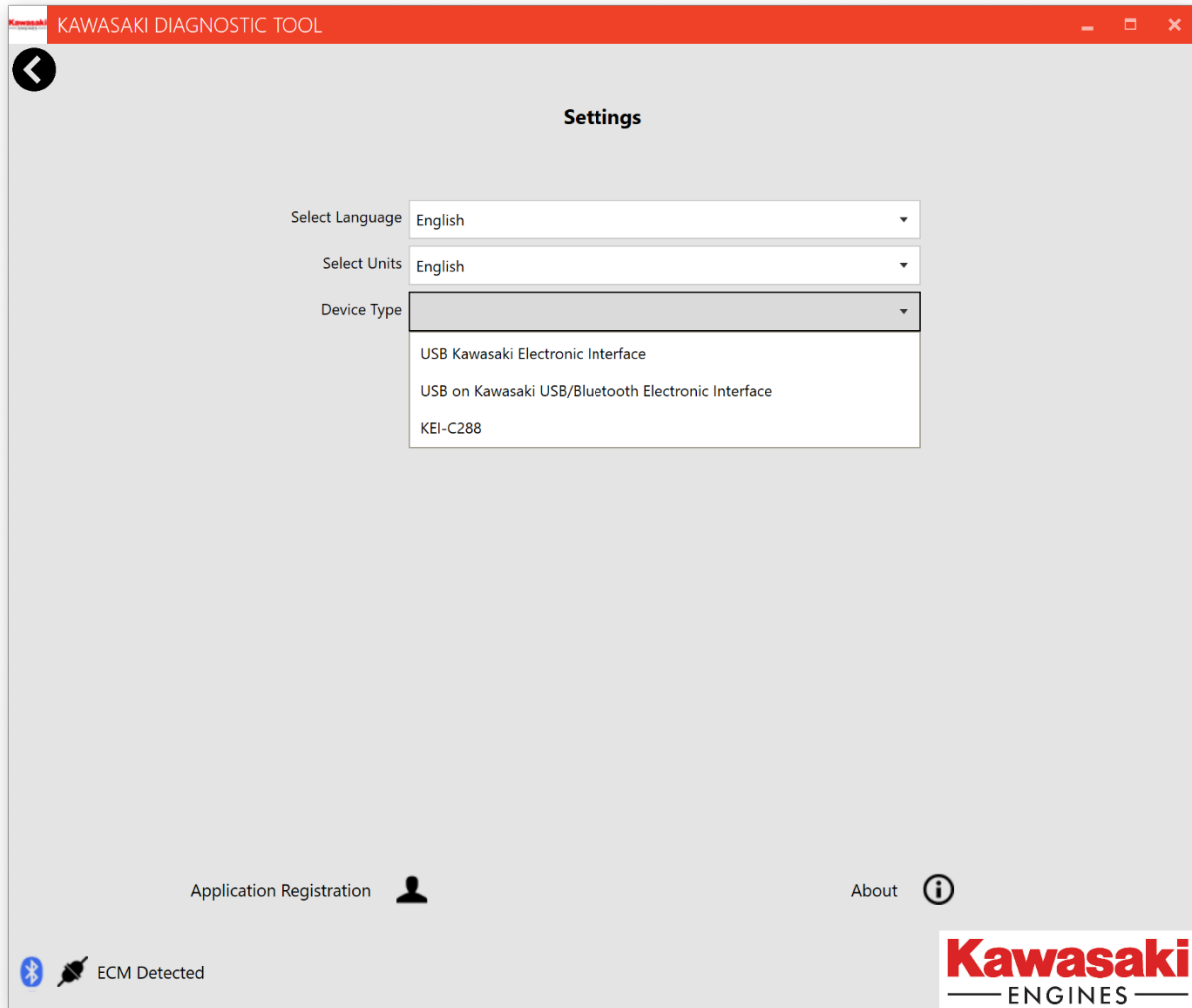
Settings

On the Settings screen, select the desired language and units for data items.

If using Bluetooth, select the paired Bluetooth device under Device Type. The device name starts with KEI-XXXX.

🔗 Click on Application Registration to update your contact information and re-register.

🔗 Click on About to show information about the tool and update the KEI module.



About

On the About screen, click Check for Application Update to check the current version (internet required).

❓ The Machine ID, Show App Log, and Show Comm Log buttons can be used for debugging.

❓ Click Update Interface Module to update the KEI firmware.



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About



Kawasaki Diagnostic Tool

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Application Version 1.0.0.53

[CHECK FOR APPLICATION UPDATE](#)

Machine ID D2D8855C-29DD-413F-B3FC-0ADD3E2C2B55

Interface Module Version 1.0.4



ECM Detected

