



ECU Diagnostics & Flashing Tool

BRIO Scanner

Pragathi Solutions

An ISO 9001:2015 Certified Company

Introduction



Flashing is the complex mechanism with which the Dataset will be induce to the ECU. Single or multiple ECU's can be re-programmed & configured simultaneously.

ECU Diagnostics is the process through which the User will able to Diagnose the ECU's condition. This will support & lead the User's towards rectification of the problem.

Tools that are customized to OE specific requirements and developed in **complete confidentiality with proprietary controls governed by OEM**.

What is a Diagnostic Scan Tool?

• An automotive **diagnostic tool** (scan tool) is an electronic device. Interface with Vehicle, diagnose the error codes, read the engine/vehicle sensor related parameter values. Reprogramming of vehicle/engine control modules(ECU's) is also possible with Diagnostics.



Image: Diagnostic Tool



Core Features

- -PC / Laptop interfaced Flashing Tool
- -Online & Offline flashing mode
- -Flash multiple ECU's in Online mode
- -Multiple Protocols & Automatic Protocol selection
- -Inbuilt Power supply, no external Battery required
- -Complete Diagnostics & Flashing solutions enabled
- -DTC's with Cause & Remedial action
- -Adjust required parameters
- -Injector Quantity Adjustment (IQA) flashing
- -1D / 2D Scanner can be attached
- -Online firmware updation
- -Offline GUI Software for Logged data analysis

Hardware features



- **O** External Communication via K Line / CAN
- O CAN Communication via J1939 Protocol / UDS
- **O** Power supply range 08 Volt 32 Volt
- O Current consumption by the device is less then 150 mA
- Idle / Sleep mode option enabled, if the device is not operating in any modes for SET duration.
- **O** Password protected, 'USER Settings ' option present.
- **O** Hardware is capable to handle Diagnostics & Flashing Application.
- O 32 Bit, 120 MHz ARM Cortex Series Processer
- **O** Internal / program Memory 2GB inbuilt
- O External Memory 32 GB
- J1962M to DB9F, molded OBD Cable (Standard length 1.76 meters.).
- Diagnostic tool hardware use on-board vehicle battery while connected to Vehicle. To visualise the Post processing data or Firmware loading USB port can be used. No separate battery required.
- **O** Uploading the data to PC / LAPTOP via USB 3.0 / Bluetooth
- **O** LED status indication
- O Device is resistant to vibrations and mechanical shocks
- **O** Protection against transients, ESD
- **O** EMI/ EMC protection enabled
- **O** Hardware will support addition of future models /any up gradation in legalization requirements etc.

Software Features



- Windows based User interface
- Software wise selection for Diagnostics & Flashing activity
- Software Selectable options for multiple ECU's
- Supported protocols:

i. CAN: ISO-11898/ISO 15031 ,ISO 14229 (UDS over CAN), J1939Data logging Supported for Diagnostics Session. GUI also support for view

ii. K-Line: KWP/ISO 14230,ISO9141

- Encryption code will be generated each & every time between the Device Hardware & GUI Software for validation purpose. AES Encryption 128 bits for Data Security - Chip inbuilting of post processed data.
- Model wise software file to be upgradable in base software, without affecting on existing Version functioning.
- Software should be compatible for an upgrade with new features and technology for future requirement .
- 1D / 2D Barcode & Label Printer integration
- Online update of Firmware

Package Contains



- BRIO Scanner (Diagnostics & Flashing Tool)
- ♦ J1962M to DB9F, OBD Cable
- USB Cable 3.0
- User's Manual(Softcopy)
- Carrying Pouch
- Barcode (1D / 2D) Scanner (Optional)

Specification



- Size W x H x D- 100 x 82 x 32 mm.
- Weight 330 Gram (Approx.)
- Body Color Black & Navy Blue
- PC / Laptop Sync USB Port (3.0)
- Vehicle Interface OBDII Cable
- Version 12.0.0
- Language English
- Product Type Compact
- User Manual Language English

Select options



- ECU Diagnostics
- ECU Flashing

ECU Diagnostics options

- Read Live Parameters
- Diagnostics Trouble Codes
- Freeze frame data
- Cause & Remedial DTC's
- Clear Trouble Codes
- Adjust Parameter
- Test Actuators
- Graphical view Live Parameters
- Logged data analysis



ECU Flashing Modes

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- Complete Flashing
- BOOT Area Flashing
- Async Software Flashing
- DATA Area Flashing

How do I connect a Diagnostic Tool?

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 Below is a picture for reference of connecting a diagnostic tool to the system(Desktop Computer or Laptop) and to the Vehicle.





1. OS Supports- Windows 10

2. Driver Required:-

a).NET Framework v4.7 and above

Link to download .NET Framework: https://drive.google.com/file/d/14EQUefo-pgts4ffmluW3oo Kh0wskTny/view?usp=sharing

b)USB-UART Drivers :

Link to download USB-UART Drivers : https://drive.google.com/file/d/1bVOvJ93fRWzlKzYeB7ONXLPZ8qogl-Y3/view?usp=sharing

c) Application Setup File (Aftermarket):

Link to download Application Setup File(Aftermarket): https://drive.google.com/file/d/1M9zfvlWfY4CLc9zFeSG6omU07oVvNdVc/view?usp=sharing

d) Application Setup File (Plant):

Link to download Application Setup File(Plant):

https://drive.google.com/file/d/1GJWgKSf8ogK-FNjIjbi4wWI_6CNVCyP1/view?usp=sharing



Sonalika_VCI_App User Manual



Download Procedure For Application Setup & Driver



<u>Step 1</u>-Click on the below given URL to download the USB-UART driver <u>https://drive.google.com/file/d/1bVOvJ93fRWzIKzYeB7ONXLPZ8qogl-Y3/view?usp=sharing</u> Click on the below given URL to download the Application Set up(Aftermarket) <u>https://drive.google.com/file/d/1M9zfvIWfY4CLc9zFeSG6omU07oVvNdVc/view?usp=sharing</u> Click on the below given URL to download the Application Set up(Plant) <u>https://drive.google.com/file/d/1GJWgKSf8ogK-FNjIjbi4wWI_6CNVCyP1/view?usp=sharing</u>

After clicking the URL below given page will open and then click on Download.

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►

Step 2 - Click on Download anyway. Then the folder will start to download.



© 2021 Google - Help - Privacy & Terms

Waiting for csp.withgoogle.com...



<u>Step 3</u>- To Extract the zip folder Click on Extract To and click OK.





<u>Step 4</u>- Folder are started to extract.

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	extracting BRIOSCAN_VCI_SETUP.exe 74% Elapsed time 00:00:04 Time left 00:00:01	
	Processed 72% Background Pause Cancel Mode Help	
<		>
	Total 1 folder, 68,796,402 bytes	



<u>Step 5</u>- The Folder is extracted. To open Double click on the folder.





INSTALLATION PROCEDURE FOR CP210x_USB to UART DRIVER



<u>Step 6</u>- Double click on the folder.

<u>Step 7</u>- To install the driver Double click on **CP210x_USB to UART Driver**.

Note- Installation of the drivers required only for the first time installation of the application. If already installed kindly ignore the step

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<u>Step 8</u>: If you are using 64-bit system then kindly install the **CP210x VCI installer_x64.exe**.

<u>Step 9</u>: If you are using 32-bit system then kindly install the **CP210x VCI installer_x86.exe**.

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Step 10: Click Next. Note- Installation steps are same for 32-bit & 64bit

system.

CP210x USB to UART Bridge Driver Installer

Welcome to the CP210x USB to UART Bridge Driver Installer
< Bacic Next > Cancel

Step 11: Select I accept this agreement. Then click Next.

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Step 12: Click Finish. CP210x_USB to UART Driver successfully installed .

Completing the Installation of the CP210x USB to UART Bridge Drive	r
The drivers were successfully installed on this computer.	
You can now connect your device to this computer. If your of came with instructions, please read them first.	device
Driver Name Status	
Driver Name Status Silicon Laboratories Inc Ready to use	



Application Installation Process



<u>Step 1</u>: To install the application Double click on **Brioscan_VCI_Plant_1.2.2**.

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<u>Step 2</u>: To install the application setup. Double click on **setup.exe.**

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Step 3: Click on Next.

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Welcome to the SetUp_Sonalika_VCI Setup Wizard	Select Installation Folder
The installer will guide you through the steps required to install SetUp_Sonalika_VCI on your computer.	The installer will install SetUp_Sonalika_VCI to the following folder. To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse". <u>Folder:</u> C:\Program Files (x86)\PragathiSolution\SetUp_Sonalika_VCI\ Browse Disk Cost
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe or criminal penalties, and will be prosecuted to the maximum extent possible under the law.	civil
< Back Next > Cance	4 < Back Next > Cancel

<u>Step 4</u>:Click Next if you want to install in C drive.



<u>Step 5</u>- : If the application is installed in C Drive then the application must Run with Administrator Access Enabled. To enable the Admin Access right click on the installed application .exe file and select properties & check the box **'Run this program as an Administrator'** and apply as shown in the image below

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<u>Step 6</u>: If you want install in other path then click on **Browse** and select the path.



Step 7: Click on Yes





Step 8: Click Next.

SetUp_Sonalika_VCI			×
Confirm Installation			
The installer is ready to install SetUp_So	onalika_VCI on your c	omputer.	
Click "Next" to start the installation.			

<u>Step 9</u>: Installation is in progress. Please wait until installation is complete

SetUp_Sonalika_VCI						×
Installing SetUp_Sonal	ika_VC	1				
SetUp_Sonalika_VCI is being installed.						
Please wait						
	¢ Ba	ack	Next>		Can	el 🛛



Step 10: Installation is completed. Click on Close.

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<u>Step 11</u>: After successful installation the icon will show as below highlighted.



ECU Diagnostics Process



<u>Step 1</u>: Connect the Brio scan Tool to the System using USB Cable and Connect the OBD Cable to the Vehicle. <u>Step 2</u>: Open the Sonalika_VCI Diagnostic Application.

PRAGATHI SOLUTIONS An ISO 9001: 2015 Certified Company	Help About Us X
	😭 ECU Disconnected 😪 🔾
	BOSCH MD1C5162 BOSCH EDC17C53 BOSCH MD1CS018


<u>Step 3</u>: The COM Port is displayed in **'Select the COM Port'** Box. Enter the Username & Password and Click on Login. If Username & Password is valid then **'Login Successful'** message is popped up else **'Invalid Username or Password'** message is displayed.

User Name- Admin

Password- Admin@123456

PRAGAT	HI SOLUTIONS 2015 Certified Company	>>> BR		NER	Help	About Us	×
					ECU Dis	connected	*
	USER LOGIN Select COM Port COM User Name Adm Password	IS IN Login	Login Successful Seleci DEFLINE RODE -	VED	BOSCH MDTCS182 BOSCH EDC17C53 BOSCH MDTCS018		



Step 4: Select the ECU Type ECU Type: 1. BOSCH MD1CS162 2.BOSCH EDC17C53 3. BOSCH MD1CS018

PRAGATHI S	Certified Company	Help About Us _ ×
S L	USER LOGIN Belect COM Port Beser Name Dassword Login DEFLICE RODE Belect ECU	BOSCH MD1CS162 BOSCH EDG17C53 BOSCH MD1CS018 -



<u>Step 5</u>: Select the ECU Type- Bosch MD1CS162 to start the communication with the ECU. If the Communication is established then ECU Details page is loaded. If the ECU is Not Connected/Ignition is Off then 'Failed ECU Communication...! Please Turn ON Ignition and Try Again.'

Note: Please make sure the Ignition is turned ON before proceeding.

	BRID SCANNER
	ECU Connected
ECU Details Live Parameter DTC Adjustme	nents Actuator Test Data Select Graph Mode Dataset Transfer Flashing Tool Update 🔒 Logout
Parameter Name	Values
ECU Software Version Number	P2150_ITL_V410
Dataset ID	
ECU Part No.	
Engine Serial No.	5555
List No.	236



<u>Step 6</u>: Click on Live Data (Tab) to view the Vehicle Live(Read) Parameters. Select the Live Parameter Group from left pane.

	>>>> BRIC		ER	Help	About Us
				ECU Co	nnected
ECU Details Live Parameter	OTC Adjustments Actuator Test	Data Select Graph Mod	le Dataset Transfer Flashi	ng Tool Update 🤱 Log	out
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Engine Group	Engine Fuel Rate	- 10 - 1	0.00	l/h	
General Group					
Start Data Recording					
	č				



<u>Step 7</u>: To record the Live Parameters Reading, click on Start Data Recording and select the path or Make new Folder to create the log file and click Ok.

	BRIO	SCANNER	Help Ab	out Us X
ECU Details Live Parameter Engine Group Pressure Group Injection Group General Group Start Data Recording	Adjustments Actuator Test Data Select Parameter Name Browse For Folder Battery Voltage Standardized Accelerat Engine Fuel Rate Debug Engine Fuel Rate Elot, flashing jc jc Hero ABS Update_24 Images Live DATA Matrix-maintaneance OCKIT pic QCOM	Graph Mode Dataset Transfer Flashing	Unit mV % RPM V/h V/h	sout



Step 8: The data is logged and saved in .csv format

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<u>Step 9</u>: The data is logged and saved in .csv format which can be viewed in Excel Format.

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4 2021-09-	-16-20:56:50	12440		0 0)	0						
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10 2021-09	16 20:56:57	12440				0						
18 2021-09	-16-20:56:59	12440				0						
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<u>Step 10</u>: Select DTC menu to Read DTC (Diagnostic Trouble Codes), Clear DTC, View Cause & Remedial Actions for the logged errors.

<u>Step 11</u>: Click on Read DTC button to view the Errors/Trouble Codes in the Vehicle.

			BRIO SCANNER	Help About Us
ECU Details Live Parame	ter DTC	Adjustments	Actuator Test Data Select Graph Mode Dataset Transfer	Flashing Tool Update Logout
	Pcodes	Status	Description	Cause and Remedy
	P012200	Active	Internal Fault Path No. Short Circuit to GND of Acce Pedal Signal 1	Click Here
	P022200	Active	Internal Fault Path No. Short Circuit to GND of Acce Pedal Signal 2	Click Here
	P019300	Active	Exceeding of the Maximum Rail Pressure Sensor Voltage	Click Here
the second second	P025100	Active	Negative Governor Deviation at Zero Delivery	Click Here
	P011800	Active	SRC High For Engine Coolant Temp(Down Stream)	Click Here
Star La Star U.S.	P011000	Active	No Description	Click Here
	P000000	Active	Signal Range Check Minimum For ECU Temp Sensor	Click Here
INTERNATION AND A	P023700	Active	No Description	Click Here
Read DTC	P000000	Active	Signal Range Check Minimum For ECU Temp Sensor	Click Here
	P040300	Active	Open Load Error for Egryly H-Bridge Powerstage	Click Here
Clear DTC				



<u>Step 12</u>: To view the Causes and Remedies click on **'Click Here'** of specified Error Code.

Read DTC Remedia Clear DTC Clear DTC P040600 Active	Calls's and remedy for EGRVIv Position Sensor Val Click Here ption Click Here click Here click Here click Here click Here re	Status Description Cause and remery Active SRC High for EGRVIv Position Sensor Val Click Here Active No Description Click Here Active Senor Not Connected. Check Wiring Harness For Short Circuit Between A39 and Battery/Sensor Supply. Active Sensor Not Connected. Check Connector is Connected. Active Wring Harness Problem. Check the Continuity Between EGR Valve Connector Pin 1,5 and ECU Pins A04, A19. Wrong Sensor. Replace The Sensor. re Act Yre re Act Yre re
Read DTC PO22200 Active Std High for EdXW Position Sensor Val No Description Click Click P155200 Active No Description Click P15200 Active No Description Click P012200 Active Short Circuit to Battery. Check Wining Hamess For Short Circuit P019300 Active Short Circuit to Battery. Check Wining Hamess For Short Circuit P019300 Active Sensor Not Connected. Check Connector is Connected. P019300 Active Wring Hamess Problem. Check the Continuity Between EGR Valve Connector Pin 1,5 and ECU Pins A04, A19. P009800 Active Wrong Sensor. Replace The Sensor.	tor EGRAVD Position Sensor Val Luck Here ption Click Here edies Wiring Harness For Short Circuit en A39 and Battery/Sensor Supply. Connector is Connected. the Continuity Between EGR Valve stor Pin 1,5 and ECU Pins A04, A19. Te The Sensor.	Active SNC High for Edk/W Postdon Sensor Val Click Here Active No Description Click Here Active No Description Click Here Act Causes Remedies Act Short Circuit to Battery. Check Wiring Harness For Short Circuit Between A39 and Battery/Sensor Supply. re Act Sensor Not Connected. Check Connector is Connected. Sont Circuit Between Connector Pin 1,5 and ECU Pins A04, A19. re Matt Wring Sensor. Replace The Sensor. re Act Act re re
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P011800 Act P009800 Act P023700 Act	ce The Sensor.	Act Vrong Sensor. Act
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P052200 Act	re	Act
P113500 Act	re	
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	Exit	Exit
	Exit	< Exit
	Exit	< exit



<u>Step 13</u>: Click on Clear DTC button to Clear the DTC. On Successful Clearing attempt the application displays the pop up message as '**DTC Cleared Successfully**'.

ECU Details Live Parameter	DTC A *codes St 012200 Act 022200 Act 025100 Act 025100 Act 011800 Act 011000 Act	Adjustments /	Actuator Test Data Select Graph Mode Dataset Transfer Fla Description Internal Fault Path No. :Short Circuit to GND of Acce Pedal Signal 1 Internal Fault Path No. :Short Circuit to GND of Acce Pedal Signal 2 Exceeding of the Maximum Rail Pressure Sensor Voltage Negative Governor Deviation at Zero Delivery	Cause and Remedy Click Here Click Here Click Here Click Here
P P P P P P P P P P P P P P P P P P P	Pcodes Str. 012200 Act 022200 Act 025100 Act 011800 Act 011800 Act 011000 Act	atus tive tive tive tive tive	Description Internal Fault Path No. :Short Circuit to GND of Acce Pedal Signal 1 Internal Fault Path No. :Short Circuit to GND of Acce Pedal Signal 2 Exceeding of the Maximum Rail Pressure Sensor Voltage Negative Governor Deviation at Zero Delivery	Cause and Remedy Click Here Click Here Click Here Click Here
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	012200 Act 022200 Act 019300 Act 025100 Act 011800 Act 011000 Act	tive tive tive tive tive	Internal Fault Path No. :Short Circuit to GND of Acce Pedal Signal 1 Internal Fault Path No. :Short Circuit to GND of Acce Pedal Signal 2 Exceeding of the Maximum Rail Pressure Sensor Voltage Negative Governor Deviation at Zero Delivery	Click Here Click Here Click Here Click Here
	022200 Act 019300 Act 025100 Act 011800 Act 011000 Act	tive tive tive tive	Internal Fault Path No. :Short Circuit to GND of Acce Pedal Signal 2 Exceeding of the Maximum Rail Pressure Sensor Voltage Negative Governor Deviation at Zero Delivery	Click Here Click Here Click Here
	019300 Act 025100 Act 011800 Act 011000 Act 000000 Act	tive tive tive	Exceeding of the Maximum Rail Pressure Sensor Voltage Negative Governor Deviation at Zero Delivery	Click Here Click Here
	025100 Act 011800 Act 011000 Act	tive tive	Negative Governor Deviation at Zero Delivery	Click Here
	011800 Act 011000 Act	tive		
99 90	011000 Act	il and		Click Here
PO	000000 Act	uve		Click Here
PO		tive	DTC Cleared Successfully pr	Click Here
	023700 Act	tive		Click Here
Read DTC Po	000000 Act	tive	OK ar	Click Here
PO	040300 Act	tive	Open Load Error for Egrvlv H-Bridge Powerstage	Click Here
Clear DTC				



<u>Step 14</u>: Select Adjustments Menu to write VIN, Injector Codes, Engine Serial No., Engine Hrs. Reset, PRV Reset & PRV Duration Reset. Enter the Data in Write Value Column and click on Calibrate button to write in the ECU Memory. '**VIN Write Success**' message is displayed if the value is written successfully.

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ECU Details Live Parameter DTC	Adjustments Actu	ator Test Data Select	Graph Mode Dataset Transfer	Flashing Tool	Update Configure Users	💁 Logout
Adjustments	Parameter Descrip	tion Current Value	Write Value	Unit	Range	
	VIN	1234567891098180	7 1234567UY67U78IOI		17	
VIN						
IQA						
Engine Serial Number						
Engine Hrs. Reset						
DDV Deset						
PRV Reset						
PRV Duraton Reset						
						1 C
	•	•				-
						Calibrate
		© 2020 Simpson & C	company Limited. All rights reserved.			



Step 15: Select IQA : 1. IQA-3 Cylinder 2. IQA-4 Cylinder

<u>Step 16</u>: If User is selecting IQA-4 Cylinder then enter the IQA codes(IQA1,IQA2,IQA3,IQA4) and click on calibrate to write in the ECU Memory. '**IQA Write Success**' message is displayed if the value is written successfully.





<u>Step 17</u>: Enter the Data in Write Value Column and click on Calibrate button to write in the ECU Memory.

Step 18: 'Engine Serial Number Success' message is

displayed if the value is written successfully.





Step 19: 'Engine Hours Reset Success' message is displayed if the value is written successfully.

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ECU Details Live Parameter DTC	Adjustments Actuator Tes	t Data Select G	aph Mode Dataset Transfer	Flashing Tool U	odate Configure Users
Adjustments VIN IQA Engine Serial Number Engine Hrs. Reset PRV Reset PRV Duraton Reset	Parameter Description Engine Hrs. Reset	Current Value 0 Engine Hours Re	Write Value 0 set Success OK	Unit Sec	Range 0
		© 2020 Simpson & Comp	any Limited. All rights reserved.		Calibrate



<u>Step 20</u>: '**PRV Reset Success'** message is displayed if the value is written successfully.

<u>Step 21</u>: '**PRV Duration Reset Success'** message is displayed if the value is written successfully

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ECU Details Live Parameter DTC	Adjustments Actuator Ter	st Data Select Gra	aph Mode Dataset Transfer	Flashing To	ol Update Configure Users 🧕 🔒 Logout		ECU Details Live Parameter DTC	Adjustments Actuator Ter	st Data Select Gr	aph Mode Dataset Transfe	r Flashing Too	I Update Configure Users	Logout
Adjustments	Parameter Description	Current Value	Write Value	Unit	Range		Adjustments	Parameter Description	Current Value	Write Value	Unit	Range	
	PRV Reset	0	0		0			PRV Duration Reset	0	0	**	0	^
VIN	_						VIN	_					
IQA		PRV Reset Su	ICCRSS				IQA		PRV Duration Res	set Success			
Engine Serial Number		- H	OK				Engine Serial Number			OK			
Engine Hrs. Reset			Car				Engine Hrs. Reset	_		ON			
DDV Dated							DDV/ Deset						
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PRV Duraton Reset							PRV Duraton Reset						
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					Calibrate							C	alibrate
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<u>Step 22</u>: Enter the Data in the Input Value Column and click on the Start button to activate the Test and then Click OK. '**Test Activated'** message is displayed if the value is written successfully.

<u>Step 23</u>: Enter the Data in the Input Value Column and click on the Stop button to deactivate the Test and then Click OK. **'Test Deactivated'** message is displayed.





Data Select:

<u>Step 24</u>: Data Select is used to view Read Parameters Data based on Custom Selection.

Note: Maximum 15 Parameters only can be selected.

<u>Step 25</u>: To select the parameters double click on the parameter. The Selected parameter list is displayed in the Selected List box as shown in the image below





<u>Step 26</u>: After selection, click on Start Data Monitoring button to view the data.

About Us ____ X BRID SCANNER ~ * ECU Connected Graph Mode Dataset Transfer Flashing Tool Update Configure Users ECU Details Live Parameter Actuator Test Adjustments Parameter List Selected List Parameter Name Range Values Unit Battery Voltage Battery Voltage Battery Voltage 11760 mV Standardized Accelerator Pedal Po Standardized Accelerator Peda 0.00000000 % Avg Engine Speed of One Cylin RPM Avg Engine Speed of One Cylin 0.0 Engine Fuel Rate Engine Fuel Rate Engine Fuel Rate 0.00 l/h Metering Unit Setpoint Current Metering Unit Actual Current Volume Flow Setpoint Metering Unit Setpoint Curren 1585 mA Metering Unit Setpoint Curren Metering Unit Actual Current Metering Unit Actual Current mA 0 Volume Flow Setpoint Volume Flow Setpoint mm3/s Clear Oil Pressure Oil Pressure 1000 hPa Throttle System Monitoring -1 Throttle System Monitoring -Throttle System Monitoring -1 117440512 Throttle System Monitoring -2 Throttle System Monitoring -2 142868544 Throttle System Monitoring -3 Throttle System Monitoring -3 402817040 Ihrottle System Monitoring Synchronization Status Synchronization Status EPM Operation Mode Status **EPM Operation Mode Status** EPM Operation Mode Status Engine Operation Status **Engine Operation Status** Engine Operation Status Actual Physical Value Start Data Monitoring Start Data Recording © 2020 Simpson & Company Limited. All rights reserved.

<u>Step 27</u>: Click on Stop Data Monitoring button to stop monitor the data.

ECU Details Live Parameter D1	IC Adjustments Actuator Test	Data-Select Graph Mod	e Dataset Transfer	Flashing Tool Update Co	onfigure Users	
Parameter List	Selected List	Parameter Name	Range	Values	Unit	
lattery Voltage	Battery Voltage	Patters Voltage	•	11760	mV.	1.
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lvg Engine Speed of One Cylinder	Avg Engine Speed of One Cylinder Set	Ava Engine Sneed of One Cylin	-	0.0	RPM	-
ingine Fuel Rate	Engine Fuel Rate	Engine Fuel Rate	20	0.00	l/h	-
Aetering Unit Setpoint Current	Metering Unit Setpoint Current	Metering Unit Setpoint Curren	-	1585	mA	-
Aetering Unit Actual Current	Metering Unit Actual Current	Metering Unit Actual Current	-11	0	mA	
folume Flow Setpoint	Volume Flow Setpoint	Volume Flow Setpoint	- 11	0	mm3/s	-
Dil Pressure Clear	Oil Pressure	Oil Pressure		1000	hPa	
hrottle System Monitoring -1	Throttle System Monitoring -1	Throttle System Monitoring -1		117572096	-	-
hrottle System Monitoring -2	Throttle System Monitoring -2	Throttle System Monitoring -2	- 0	142868544	-	
hrottle System Monitoring -3	Throttle System Monitoring -3	Throttle System Monitoring -3	- 1	402817040	-	
wochronization Status	Synchronization Status	Synchronization Status	20	0	-	
PM Operation Mode Status	EPM Operation Mode Status	EPM Operation Mode Status	-	1	-	
noine Operation Status	Engine Operation Status	Engine Operation Status	-0	1	-	1
Stop Data Moni Start Data Recr	toring				C.	9



<u>Step 28</u>: To record the Parameters Reading, click on Start Data Recording and select the path to create the log file and click Ok. The data is logged and saved in .csv format which can be viewed using Excel

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ECU Details Live Parameter DTC Adjustments Actuator Tes	t Data Select Graph Mode Dataset Transfer F	lashing Tool Update Cor	ECU Connected	¥ 58
Parameter List Selected List Battery Voltage Standardized Accelerator Pedal Po- Arg Engine Speed of One Cylinder Engine Fuel Rate Battery Voltage Metering Unit Setpoint Current Volume Flow Setpoint Metering Unit Setpoint Current Volume Flow Setpoint Betery Voltage Throttle System Monitoring -1 Throttle System Monitoring -2 Throttle System Monitoring -3 Synchronization Status Clear Metering Unit Setpoint Current Metering Unit Actual Current Volume Flow Setpoint EPM Operation Mode Status Engine Operation Status EPM Operation Mode Status Engine Operation Status Engine Operation Status Actual Physical Value Stop Data Monitoring Start Data Recording	Data Select databin Debug EOL flashing Flashmangic pic Hero ABS Update_24.07.2021 Images Ift_Launcher_icon_r_Vehicle_EOL_Flashing Matrix-maintaneance	Values 11760 0.000000 0.0 0.0 0.0 0.0 0 0.0 0 0 0	Unit mV % RPM U/h mA ma ma ma - - - - - - - - - - - - -	
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Step 29: The data is logged and saved in .csv format

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🕳 Local Disk (D:)									
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<u>Step 30</u>: The data is logged and saved in .csv format which can be viewed in Excel Format.

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	A1 •	$\int f_x$													~
	A	В	С	D		E	F	G	Н	1	J	K	L	М	
1															
2	Date and Time	Battery Voltage(mV)	Standardized Accelerator Pedal Position(%)	Engine Speed(RPM)	Engine Fue	el Rate(I/h)									- 1
3	2021-09-16-20:56:49	12440	0	0)	0									- 1
4	2021-09-16-20:56:50	12440	0	0		0									- /
5	2021-09-16-20:56:50	12440	0	0		0									_
6	2021-09-16-20:56:51	12440	0	0		0									- /
<u>/</u>	2021-09-16-20:56:51	12440	0	0		0									- /
8	2021-09-10-20:50:52	12440		0		0									-
10	2021-09-16-20:56:53	12440	0	0		0									- /
11	2021-09-16-20:56:54	12440	0	0		0									- /
12	2021-09-16-20:56:54	12440	0	0)	0									- /
13	2021-09-16-20:56:55	12440	0	0)	0									
14	2021-09-16-20:56:56	12440	0	0)	0									
15	2021-09-16-20:56:56	12440	0	0)	0									
16	2021-09-16-20:56:57	12440	0	0		0									
17	2021-09-16-20:56:58	12440	0	0)	0									
18	2021-09-16-20:56:58	12440	0	0)	0									
19	2021-09-16-20:56:59	12440	0	0)	0									
20	2021-09-16-20:56:59	12440	0	0)	0									_
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22	2021-09-16-20:57:01	12440	0	0)	0									_
23	2021-09-16-20:57:01	12440	0	0		0									_
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Graph Mode:

<u>Step 31</u>: Select the Graph Mode Menu to view the parameters in Graphical Representation.

Double Click on the parameter to select. Click on Start Data Monitoring button to view the graph and Stop Monitoring to stop. **Note:** Maximum 3 Parameters only can be selected. Step 32: Click on Stop Monitoring button to stop monitor the data.





Dataset Transfer & Flashing Process



Dataset Transfer

<u>Step 1</u>: Select Dataset Transfer Menu to transfer the Dataset to VCI Memory. The Available files list will be showed in the grid as shown in the image below. If files are not available then the pop up message 'No Files Available' is displayed. **Note:** Once you enter Dataset Transfer or Flashing Menu, you cannot go to any other Menu. You need to logout the application and log in again to enter in Diagnostic Mode

	BRID SCANNER
	ECU Disconnected 😪 🗱
ECU Details Live Parameter DTC Adjustments Actu	ator Test 🛛 Data Select Graph Mode Dataset Transfer Flashing Tool Update Configure Users 💁 Logout
Available Files ITL_90hp_EUstage5_N ITL_MD1C515EUstage5 9.ITL_50hp_EUstage5	D1CS018_P2019_V300TS4_ID02_DPF_Soot loading_With IQA_patched_20210516_ID01_upload_2 stContainer_both are same MD1CS018 KAY6BAN P2019 V300TS4 20210615 V09 soot loading_Final dataset 50HP 1
Browse File Transfer File Delete File	
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<u>Step 2</u>: To Transfer the Dataset, click on Browse File.

Select the Dataset File from the system that is to be transferred. Click on Transfer File to start transferring.

Note: Only One Dataset can be transferred at one instance.

	BRIO SCANNER	Help About Us >
ECU Details Live Parameter DTC	Adjustments Actuator Test Data Select Graph Mode Dataset Transfer Flas	shing Tool Update Configure Users
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Step 3: The application is logged out automatically during the Dataset Transfer operation. **Note:** Only One Dataset can be transferred at one instance.

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<u>Step 4</u>: On Completion of Dataset Transfer the **'File Transfer Completed'** message pop up is displayed. **Note:** The four instances of 100% transfer operation has to be completed for full single dataset transfer.

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Flashing- 1.SD Card 2.System Based

1. SD Card Flashing

Step 1: To Flash the ECU select the Flashing Menu. Available Files in SD Card will be displayed in the application. If the files are not available transfer the files first and then perform the Flashing operation. Select the file from the list that needs to be flashed and Click on Start Flashing button.





<u>Step 2</u>: On successful completion of ECU Dataset Flashing 'Flashing Success' message is displayed and the application is logged out automatically. The user now can login and perform the Diagnostic Operations.

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2) System Based Flashing.

<u>Step 1</u>: To Flash the ECU select the Flashing Menu. Then select "System Based flashing".

Note: Before selecting the system based flashing, ensure that the dataset which you are going to flash that dataset should be available in your system. If not available kindly copy the dataset on your system.

Step 2: Click on Browse File. Select the Dataset File from the system.





<u>Step 3</u>: Click on a 'Flash File' to start the flashing. Flashing Process is being displayed in the Flashing Status window.

<u>Step 4</u>: On successful completion of ECU Dataset Flashing 'Flashing Success' message is displayed and the application is logged out automatically. The user now can login and perform the Diagnostic Operations.





TOOL UPDATE PROCESS



Tool Update:

Help About Us _ X Help About Us _ X BRID SCANNER BRID SCANNER * 🚯 ECU Connected 😭 🖇 \sim ECU Connected Tool Update Configure Users 2 Logout Graph Mode Dataset Transfer Flashing onfigure Users 🥄 🧏 Logout ECU Details Live Param Data Select ECU Details Live Parame Data Select Graph Mode Dataset Transfer Actuator Test Firmware Information Firmware Update -Firmware Update Firmware Information BS Open ≪ BIN > Sonalika BIN file $\leftarrow \rightarrow \gamma$ σv Search Sonalika BIN file SOL08219998 Organize 🕶 New folde H · 🖬 🔞 Date modified Туре 47 dev ITLVCI-V1.5.47 dev vci_sonalika_dev_1.5.46.bin 30-06-2021 19:10 BIN File This PC vci sonalika dev 1.5.47.bin 17-08-2021 17:25 BIN File 3D Objects vci_sonalika_V1.5.48(latest).bin 08-09-2021 11:08 BIN File irmware Update nware Update -@ Hardware Version 5.01 -@ Desktop Online Mode vci_sonalikaV1.5.41.bin BIN File Documents Downloads - 0 h Music Pictures Videos Local Disk (C:) __ Local Disk (D:) File name: vci_sonalika_V1.5.48(latest).bin Bin Files (*.bin) Browse Update Tool Browse Open Cancel @ 2020 Simpson & Company Limited. All rights reserved. © 2020 Simpson & Company Limited. All rights reserved

<u>Step 1</u>: Select Tool Update Menu to Update the VCI tool.

<u>Step 2</u>: Click on Browse File. Select the .bin file from the system and click Open .



<u>Step 3</u>: Click on Update tool. Tool updating is in progress and is being displayed in the Update tool window.

<u>Step 4</u>: Once Tool update is completed **"RESET Success. Please Login Again"** message is displayed and the application will log out.





Configure Users:

<u>Step 1</u>: To create New User Login's click on Configure User.

<u>Step 2</u>: Enter the Details in User Creation Menu as shown in the image below.





<u>Step 3</u>: The Admin user has the rights to decide which user has to be given the Access for Adjustments or Flashing or Dataset Transfer. Selected Checkboxes Menu Access will be provided to the user. Click on Create User to add the login. **"User Created Successfully"** pop up message is displayed.

<u>Step 4</u>: To Modify the existing User. First select the User from the grid which is to be modified as shown in the image below Modify the details and click on Modify User. **"User Modified Successfully"** pop up message is displayed.




<u>Step 5</u>: To Delete the existing User, first select the User.

<u>Step 6</u>: Click on Delete button. "User Deleted Successfully" pop up message will display.





<u>Step 7</u>: Click on the Reset button to reset the details from the User Creation panel.

OFFLINE MODE: In offline mode, user can access only Dataset Transfer and Tool Update.





THANK YOU

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