



## TOPIx Cloud Diagnostics

### *Toolbox and Applications User Guide*

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TOPIx

jlridssddmongoose.com



Diagnostic Device Agent

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# 1 Overview of TOPIx Cloud Diagnostics

## 1.1 What is TOPIx Cloud Diagnostics?


- TOPIx Cloud Diagnostics is an integrated diagnostic cloud-based tool within the TOPIx environment.
- It is always up-to-date for both Jaguar and Land Rover Retailers to connect directly to vehicles.
- TOPIx Cloud Diagnostics is software that utilises current diagnostic equipment to connect to applicable vehicles.
- No need for large software installations that provide out of date solutions.
- Delivers new experiences to users with time efficiency benefits.
- The Diagnostic Device Agent synchronises with TOPIx Cloud Diagnostics to display vehicle data and all expected features and functions of Jaguar Land Rover approved diagnostic tools.




## 1.2 Who is it for?

- Intended for users who want to connect TOPIx to maintain Jaguar Land Rover vehicles.
- **For the best user experience Jaguar Land Rover recommend to use Google Chrome browser.**
- Provide user guidance to the correct and latest information.
- To provide users all the information, parts and labour details at the start of the repair.

## 1.3 Installation of TOPIx Diagnostic Device Agent (DDA)

- Access TOPIx by means of URL address <https://topix.jaguar.jlrext.com/> or <https://topix.landrover.jlrext.com/>
- Click 'Links' located within the lower toolbar.
- Click 'Diagnostic Device Agent'.
- Follow prompts shown on the screen to run and complete the installation of the Diagnostic Device Agent.
- Upon completion of the software installation the Diagnostic Device Agent icon will be shown in the Windows lower tool tray (as shown in image below ).



- If the icon is not shown, click the hidden icon triangle  to expand image to show the icon tray.

## 1.4 Auto Update of the Diagnostic Device Agent (DDA)

- Once the DDA is installed, all later versions will be delivered automatically.
- The user will be shown an option to install or cancel. Install update is recommended so that the latest version is being used.
- If the user decides to cancel the offered update, the DDA can still be used at the current level without enhancement installed. However, the fourth day from the initial delivery of an update the use of the DDA will be inhibited until the latest update is applied.
- For the installation to take place, the vehicle must not be connected and the DDA must be logged out.
- A pop-up messages may occur that detail the stages of update and completion.
- Please refer to TOPIx Cloud Diagnostics – Diagnostic Device Agent User and Troubleshoot Guide for additional information if needed. [TOPIx Document navigation path – Browse all > Diagnostics > General > Enhanced Diagnosis & Testing].

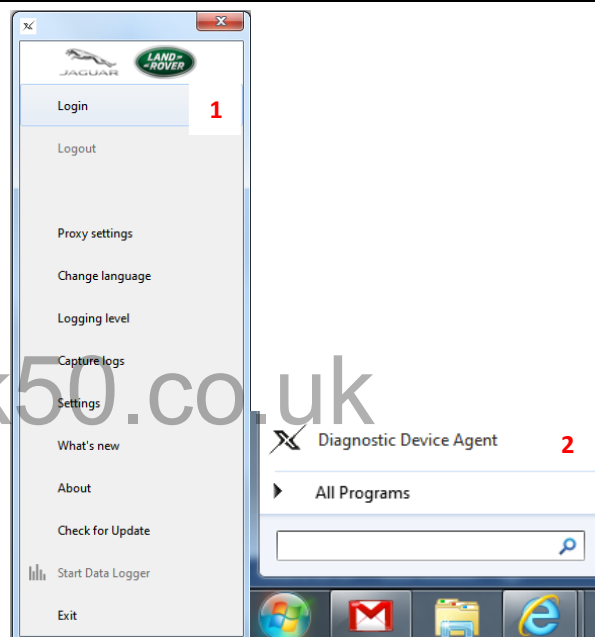
## 1.5 What functions are available?

This user guide covers key enhancements available within TOPIX Cloud Diagnostics Toolbox and Applications.

### 1.5.1 TOPIx Login

- As a TOPIx user you may already be logged into TOPIx. However, to use TOPIx Cloud Diagnostics, login via the Diagnostic Device Agent is required.
  - You will notice that if you are already logged into TOPIX, a new tab is rendered to allow you to login and to use TOPIx Cloud Diagnostics.
- You are able to login from the DDA Tray icon or the Windows Start menu.

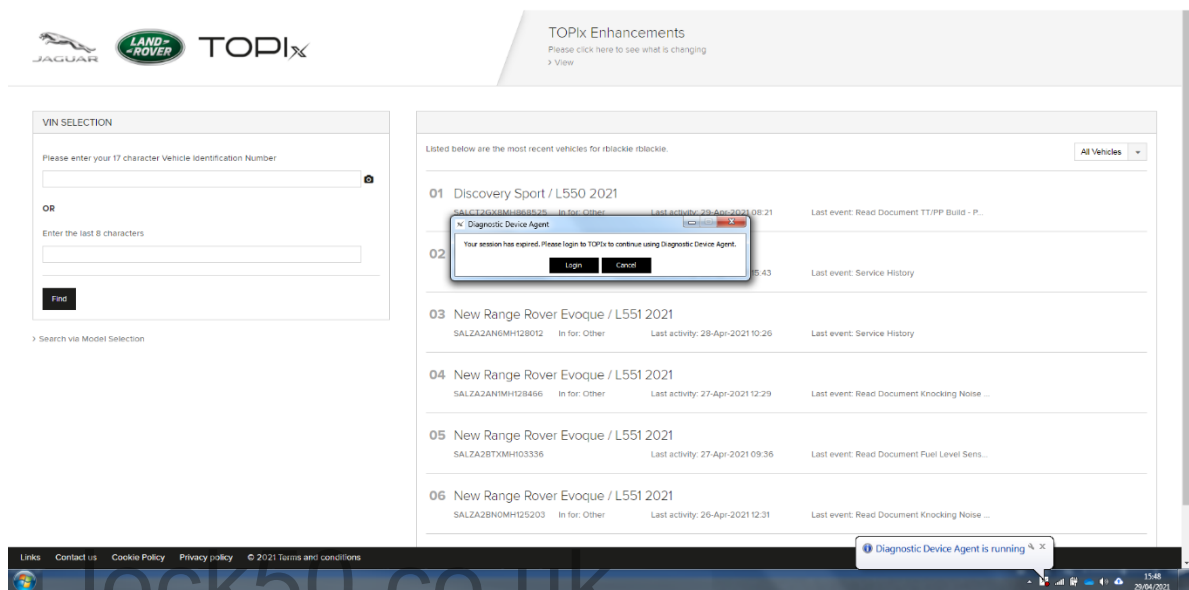
Item	Description
1	DDA Login
2	Start Menu Login



- Upon Login via the DDA you will see pop-ups from the Diagnostic Device Agent Tray icon that inform the user login has been achieved and if a vehicle is connected a pop-up is shown of the Vehicle Identification Number (VIN) and connection status.

### 1.5.2 Vehicle connection

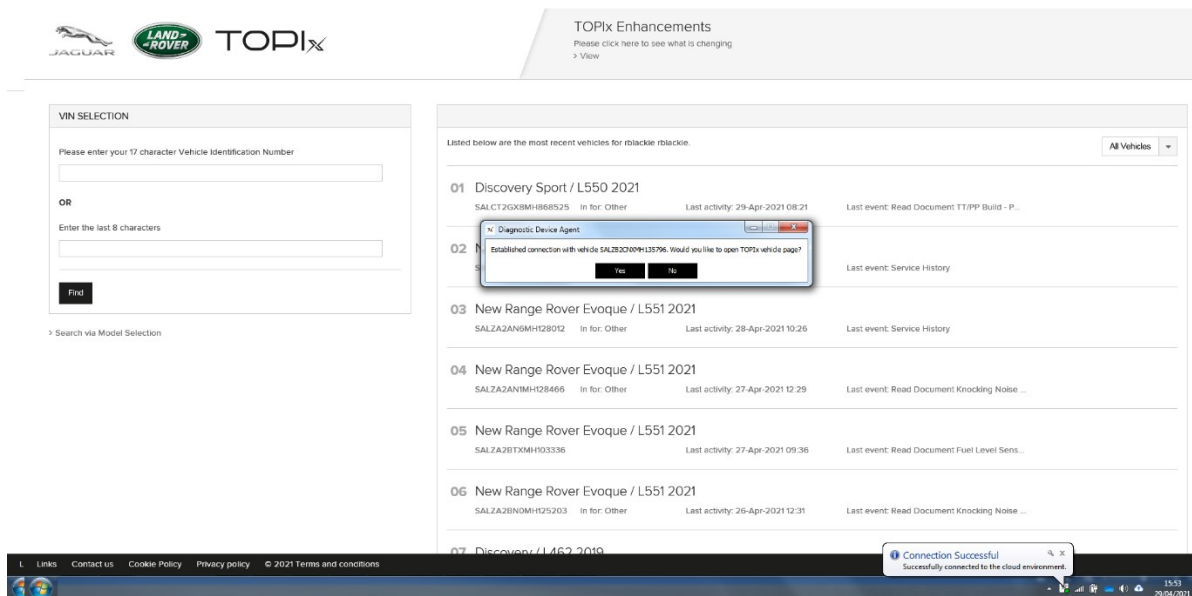
- Connect the latest Jaguar Land Rover Vehicle Communication Interface (VCI) to the vehicle and diagnostic computer.
- The DDA will detect VCI connection to the vehicle and will read the VIN from the vehicle.
- A VIN popup message will be shown, "Established connection with vehicle xxxxxxxxxxxxxxxx. Would you like to open a TOPIx vehicle page?"
- Click 'Yes' to open a new TOPIx page or 'No' to remain on the same TOPIx page and the 'Diagnostics' tab must be clicked or a refresh of the retained TOPIx page will be needed to show the connected vehicle status.
- The red indicator on the DDA icon will go to green upon successful connection to a vehicle.
- The DDA will indicate TOPIx Cloud is connected and a 'Currently Viewing' vehicle with a spanner icon will be shown with **READY** highlighted in green (within the TOPIx banner). Next the automatic vehicle module data collect occur. This is called Automatic Network Integrity Test (ANIT).
- The DDA will do an Automatic Network Integrity Test (ANIT) if this has not been done within the last 24 hours, if an ANIT has been done within the last 24 hours then the last data read will be shown.
- **Note:** If an Automatic Network Integrity Test (ANIT) or Network Integrity Test (NIT) is not completed, then it will not be possible to run any other application that needs communication to the vehicle. (See section 3 'Frequently Asked Questions' for additional help).
- Should you choose not to wait (this is acceptable) you can continue to use other TOPIx features. However, you will not be able to use any applications within the 'Diagnostics' tab in TOPIx until the **READY** icon is shown and an ANIT or NIT completed.



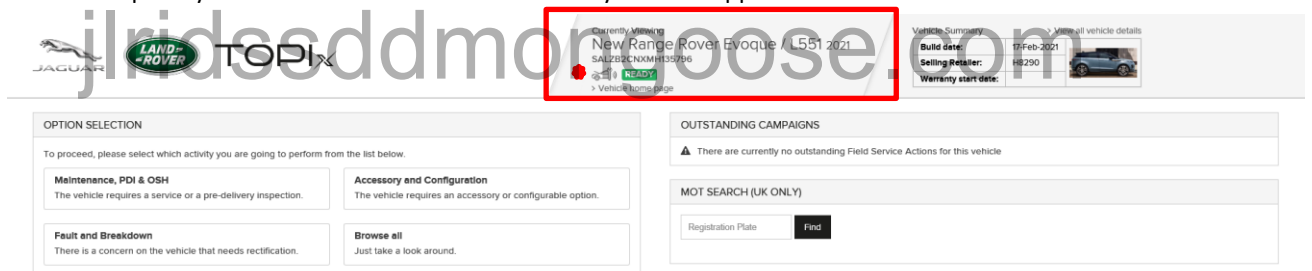


## TOPIx Cloud Diagnostics

### Toolbox and Applications User Guide

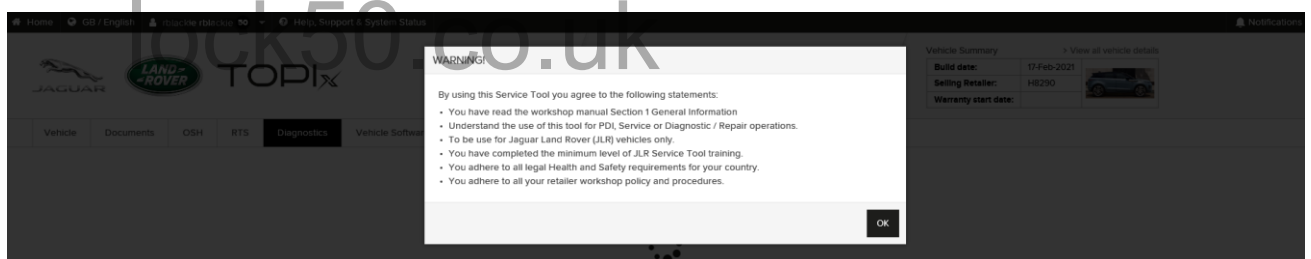


- At this point you need to wait for the Vehicle Ready Icons to appear as shown below.



### 1.5.3 Diagnostic Toolbox

- Click 'Browse all' selection box and then all TOPIx features and content tabs will be shown next.
- Click 'Diagnostics'.
- Upon selecting the 'Diagnostics' tab a warning message will be seen. This message will appear every 24 hours.
- Click 'OK' to agree and continue.



- Should you decide to proceed to the Diagnostics tab without the **READY** icon being shown, a red warning message is displayed.
- Please wait a short period of time (10 - 20 seconds) before selecting '**Refresh Connection Status**'.



## TOPIx Cloud Diagnostics

### Toolbox and Applications User Guide

- The 'Dismiss' button will clear the warning message but will not manually refresh the status. However, once vehicle connection and module data collect has been achieved the **READY** icon will be shown.

**TOPIx**

Currently Viewing  
 New Range Rover Evoque / L551 2021  
 SAL282CNXMH135796  
 > Vehicle home page

Vehicle Summary  
 Build date: 03-Feb-2021  
 Selling Retailer: H8290  
 Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

Vehicle is not connected. Please check all physical connections and then click to refresh.

Refresh Connection Status Dismiss

**VEHICLE DATA**  
 Modules Fault Timeline DTC HelpText DTC Snapshot  
 Vehicle last read: 01-Jul-2021 13:19:57 (UTC)  
 Mileage Last Read: 11 km at 01-Jul-2021 13:18:51 (UTC)

Module	Description	Status
SGCM	Starter/Generator Control Module	NO RESPONSE
TCM	Transmission Control Module	NO RESPONSE
ABS	Anti-Lock Brake System Control Module	DTC
DADC	Driver Assistance Domain Controller	DTC
NFSM	Near Field Sensing Module	DTC
PCM	Powertrain Control Module	DTC
PSCM	Power Steering Control Module	DTC
AAM	Audio Amplifier Module	RESPONDED
BCM	Body Control Module	RESPONDED
CCM	Cruise Control Module	RESPONDED

**APPLICATIONS AND TROUBLESHOOTING**  
 Vehicle Applications Module Applications Module Programming Diagnostic Tests History DTCs

Application name	Description	Action
Activate Display Test Pattern	Beta version - Do not use	Run
Activate Display Test Pattern	Description not available.	Run
Activate Display Test Pattern	Description not available.	Run
Activate Forward Radar Service Alignment	Description not available.	Run
Activity Key	Beta version - Do not use	Run
Actuators End Stop Detection	Beta version - Do not use	Run
Add Additional Keys	Beta version - Do not use	Run

- When the **READY** Icon is shown, this indicates the vehicle is ready to run Diagnostics

**TOPIx**

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 New Range Rover Evoque / L551 2021  
 SAL282CNXMH135796  
 > Vehicle home page

Vehicle Summary  
 Build date: 03-Feb-2021  
 Selling Retailer: H8290  
 Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

**VEHICLE DATA**  
 Modules Fault Timeline DTC HelpText DTC Snapshot  
 Vehicle last read: 01-Jul-2021 13:19:57 (UTC)  
 Mileage Last Read: 11 km at 01-Jul-2021 13:18:51 (UTC)

Module	Description	Status
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ABS	Anti-Lock Brake System Control Module	DTC
DADC	Driver Assistance Domain Controller	DTC
NFSM	Near Field Sensing Module	DTC
PCM	Powertrain Control Module	DTC
PSCM	Power Steering Control Module	DTC
AAM	Audio Amplifier Module	RESPONDED
BCM	Body Control Module	RESPONDED
CCM	Cruise Control Module	RESPONDED

**APPLICATIONS AND TROUBLESHOOTING**  
 Vehicle Applications Module Applications Module Programming Diagnostic Tests History DTCs

Application name	Description	Action
Clear All DTC(s)	Clear all stored diagnostic trouble co...	Run
Customer Personalisation Features	This application is required to be ran L...	Run
Network Integrity Test	This application will read Diagnostic T...	Run
Pre-Delivery Inspection	This application will configure the veh...	Run
Service Message Reset	Oil, Inspection and Service Message r...	Run

- If a collection has not occurred within the last 24 hours a message will be displayed within the 'VEHICLE DATA' panel to inform that a Network Integrity Test is in progress, to wait a few seconds allow the screen to automatically refresh or manually refresh the TOPIx page.
- A timestamp and distance is shown within the 'VEHICLE DATA' panel, this informs the user of the last time the vehicle was read and module data acquired.
  - Green RESPONDED = Achieved communication to a module and no DTC stored.
  - Amber DTC = Achieved communication to a module and one or more DTC is stored.
  - Red NO RESPONSE = Communication to a module has not been achieved and needs to be investigated.

### 1.5.4 Fault Timeline

- The 'Fault Timeline' feature shows the occurrence of DTCs and reference to a date and time for each event.
- The computer cursor can be used to hover over each delta point and more information will be shown.
- You can zoom in by creating a box around a DTC



## TOPIx Cloud Diagnostics

### Toolbox and Applications User Guide

- 'DTC Helptext' and 'DTC Snapshot' becomes active when the 'DTCs' function is in use within the 'APPLICATIONS AND TROUBLESHOOTING' panel. Refer to section [1.5.9 DTCs](#)

**TOPIx**

Currently Viewing  
New Range Rover Evoque / L551 2021  
SALZB2CNXMH135796  
READY  
> Vehicle home page

Vehicle Summary  
> View all vehicle details  
Build date: 03-Feb-2021  
Selling Retailer: H8290  
Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

**VEHICLE DATA**  
Modules Fault Timeline DTC Helptext DTC Snapshot  
Odometer reading (km)  
Date (UTC)

**APPLICATIONS AND TROUBLESHOOTING**  
Vehicle Applications Module Applications Module Programming Diagnostic Tests History DTCs  
Application name Description Action  
Clear All DTC(s) Clear all stored diagnostic trouble co... RUN  
Customer Personalisation Features This application is required to be ran L... RUN  
Network Integrity Test This application will read Diagnostic T... RUN  
Pre-Delivery Inspection This application will configure the veh... RUN  
Service Message Reset Oil, Inspection and Service Message r... RUN

### 1.5.5 Vehicle Applications

- The 'Vehicle Applications' toolbox will display all applicable applications which are generic vehicle functions and not specific to one module or vehicle specification. As an example *Network Integrity Test*, *Pre-Delivery Inspection* and *Service Message Reset*.
- Click 'RUN' on the desired application to launch and apply changes to the vehicle.
  - Note: A short delay will be seen whilst the selected application data is downloaded from the cloud server, applied to the DDA and launched within TOPIx.
- Follow the instructions and complete the commands given by TOPIx for the selected application.

**TOPIx**

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New Range Rover Evoque / L551 2021  
SALZB2CNXMH135796  
READY  
> Vehicle home page

Vehicle Summary  
> View all vehicle details  
Build date: 03-Feb-2021  
Selling Retailer: H8290  
Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

**VEHICLE DATA**  
Modules Fault Timeline DTC Helptext DTC Snapshot  
Vehicle last read: 01-Jul-2021 13:19:57 (UTC)  
Mileage Last Read: 11 km at 01-Jul-2021 13:18:51 (UTC)  
Module Description Status  
SGCM Starter/Generator Control Module NO RESPONSE  
TCM Transmission Control Module NO RESPONSE  
ABS Anti-Lock Brake System Control Module DTC  
DADC Driver Assistance Domain Controller DTC  
NFSM Near Field Setting Module DTC  
PCM Powertrain Control Module DTC  
PSCM Power Steering Control Module DTC  
AAM Audio Amplifier Module RESPONDED  
BCM Body Control Module RESPONDED  
CCM Cruise Control Module RESPONDED

**APPLICATIONS AND TROUBLESHOOTING**  
Vehicle Applications Module Applications Module Programming Diagnostic Tests History DTCs  
Application name Description Action  
Clear All DTC(s) Clear all stored diagnostic trouble co... RUN  
Customer Personalisation Features This application is required to be ran L... RUN  
Network Integrity Test This application will read Diagnostic T... RUN  
Pre-Delivery Inspection This application will configure the veh... RUN  
Service Message Reset Oil, Inspection and Service Message r... RUN





### 1.5.6 Module Applications

- The 'Module Applications' toolbox will show all applicable applications that are assigned to a specific module. *This was previously known as ECU Diagnostics when viewed on Pathfinder.*
- To access this please select a module from the left-hand side shown within the **VEHICLE DATA** panel. *This was previously known as ECU Functions when viewed on Pathfinder.*
- Double clicking on any module will enable a list of all module applications to be seen.

Currently Viewing: New Range Rover Evoque / L551 2021  
SALZ82CNXMH135796  
READY  
> Vehicle home page

Vehicle Summary  
> View all vehicle details  
Build date: 03-Feb-2021  
Selling Retailer: H8290  
Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

**VEHICLE DATA**  
Modules Fault Timeline DTC HelpText DTC Snapshot  
Vehicle last read: 01-Jul-2021 13:19:57 (UTC)  
Mileage Last Read: 11 km at 01-Jul-2021 13:18:51 (UTC)

Module	Description	Status
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ABS	Anti-Lock Brake System Control Module	DTC
DADC	Driver Assistance Domain Controller	DTC
NFSM	Near Field Sensing Module	DTC
PCM	Powertrain Control Module	DTC
PSCM	Power Steering Control Module	DTC
AAM	Audio Amplifier Module	RESPONDED
BCM	Body Control Module	RESPONDED
CCM	Cruise Control Module	RESPONDED

**APPLICATIONS AND TROUBLESHOOTING**  
Vehicle Applications **Module Applications** Module Programming Diagnostic Tests History DTCs

PSCM

Application name	Description	Action
Lock Steering Tune to vehicle	Beta version - Do not use	Run
Reset Temperature Histogram Counters	Beta version - Do not use	Run
Set Into Customer Mode	Beta version - Do not use	Run

Currently Viewing: New Range Rover Evoque / L551 2021  
SALZ82CNXMH135796  
READY  
> Vehicle home page

Vehicle Summary  
> View all vehicle details  
Build date: 03-Feb-2021  
Selling Retailer: H8290  
Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

**VEHICLE DATA**  
Modules Fault Timeline DTC HelpText DTC Snapshot  
Vehicle last read: 01-Jul-2021 13:19:57 (UTC)  
Mileage Last Read: 11 km at 01-Jul-2021 13:18:51 (UTC)

Module	Description	Status
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ABS	Anti-Lock Brake System Control Module	DTC
DADC	Driver Assistance Domain Controller	DTC
NFSM	Near Field Sensing Module	DTC
PCM	Powertrain Control Module	DTC
PSCM	Power Steering Control Module	DTC
AAM	Audio Amplifier Module	RESPONDED
BCM	Body Control Module	RESPONDED
CCM	Cruise Control Module	RESPONDED

**APPLICATIONS AND TROUBLESHOOTING**  
Vehicle Applications **Module Applications** Module Programming Diagnostic Tests History DTCs

Application name	Description	Action
Activate Display Test Pattern	Beta version - Do not use	Run
Activate Display Test Pattern	Description not available.	Run
Activate Display Test Pattern	Description not available.	Run
Activate Forward Radar Service Alignment	Description not available.	Run
Activity Key	Beta version - Do not use	Run
Actuators End Stop Detection	Beta version - Do not use	Run
Add Additional Keys	Beta version - Do not use	Run

### 1.5.7 Diagnostic Tests

- The 'Diagnostic Tests' toolbox contains specific tests which that can be selected and executed from TOPIx. *This was previously known as Guided Diagnostics when viewed on Pathfinder.*
- Most diagnostic tests will not need communication to a vehicle as they include physical and visual checks to be done on a vehicle. The instructions will inform the user if the VCI is required and diagnostic communication has to be done.
- Follow the on-screen instructions to carry out a test.
- Test can be re-run to validate a repair if required.

#### JLR Retailers ONLY

- If a fault is found, TOPIx will create a **Repair Validation Code (RVC)** and show on screen for the user to record on their job card and warranty claim submission. Each RVC is unique to a retailer user group, diagnostic test and repair to a fault found. This means that individual approved users at the retailer can continue/resume/re-run the same test and use the same RVC code for the warranty repair claim.
- This code confirms that you can carry out the repair identified by TOPIx, based on the diagnostic outcome.

The screenshot displays the TOPIx Cloud Diagnostics interface. At the top, it shows the Jaguar and Land Rover logos, the TOPIx logo, and the current vehicle being viewed: New Range Rover Evoque / L551 2021. The vehicle's VIN is SALZB2CNXMH135796, and it is marked as 'READY'. The interface is divided into several sections:

- Vehicle Data:** A table listing various modules and their status.
 

Module	Description	Status
SGCM	Starter/Generator Control Module	NO RESPONSE
TCM	Transmission Control Module	NO RESPONSE
ABS	Anti-Lock Brake System Control Module	DTC
DADC	Driver Assistance Domain Controller	DTC
NFSM	Near Field Sensing Module	DTC
PCM	Powertrain Control Module	DTC
PSCM	Power Steering Control Module	DTC
AAM	Audio Amplifier Module	RESPONDED
BCM	Body Control Module	RESPONDED
CCM	Cruise Control Module	RESPONDED
- Applications and Troubleshooting:** A section with tabs for Vehicle Applications, Module Applications, Module Programming, Diagnostic Tests (highlighted), History, and DTCs. Under the Diagnostic Tests tab, a list of tests is shown with 'RUN' buttons.
 

Application name	Description	Action	Result
DEF Backflow Pump - Test	Description not available.	RUN	
DEF Concentration Sensor - Test	Description not available.	RUN	
Diesel Fuel Injector Test	Beta version - Do not use	RUN	
Diesel Particulate Filter Rattle - Test	Beta version - Do not use	RUN	
Diesel Particulate Filter Test	Beta version - Do not use	RUN	
- Toolbox:** A section titled 'RUNNING APPLICATION - DAB ANTENNA 2 TEST'. It contains a 'DAB2 ANTENNA CIRCUIT DIAGNOSTICS' section with a 'NOTE' box.
 

**NOTE**

This diagnostic test will check the circuit for the following:

  1. Faulty harness/connector
  2. Faulty antenna amplifier
  3. Faulty Front Infotainment Control Module (FICM / ICCM)

Below the note is a 'Continue' button (highlighted with a red box) and an 'Abort' button.



### TOOLBOX

#### RUNNING APPLICATION - DAB ANTENNA 2 TEST

##### DAB SYSTEM FUNCTIONALITY CHECK

Check the DAB radio is working by searching for any DAB radio stations and checking if the DAB source is active on the screen. Road test the vehicle and check the functionality is still working correctly in other signal areas.

Is the DAB radio working?

Yes No

### TOOLBOX

#### RUNNING APPLICATION - DAB ANTENNA 2 TEST

##### DAB2 ANTENNA AMPLIFIER CONNECTOR CHECK

Refer to the electrical circuit diagrams and disconnect the DAB2 antenna cable from the DAB2 antenna amplifier and complete the following checks.

1. Inspect the electrical connector seals are fitted correctly and make sure there is no damage to the connector seals.
  2. Inspect the electrical connectors and make sure there is no signs of water ingress present.
  3. Inspect the electrical connector terminals and make sure they are not damaged or misaligned.
  4. Inspect connectors for backed out pins.
  5. Inspect for corroded, damaged or worn pins.
- Are the connector and pins in good condition?

Yes No

### TOOLBOX

#### RUNNING APPLICATION - DAB ANTENNA 2 TEST

##### DAB2 ANTENNA AMPLIFIER VOLTAGE CHECK

Measure the voltage between SIG wire of the DAB2 antenna amplifier cable and a local ground connection on the vehicle

Is the voltage greater than 9 volts?

Yes No

### TOOLBOX

#### RUNNING APPLICATION - DAB ANTENNA 2 TEST

##### DAB2 ANTENNA AMPLIFIER VOLTAGE CHECK

Measure the voltage between SIG wire of the DAB2 antenna amplifier cable and a local ground connection on the vehicle

Is the voltage less than battery voltage?

Yes No

### TOOLBOX

#### RUNNING APPLICATION - DAB ANTENNA 2 TEST

##### RECONNECT AND CHECK FUNCTIONALITY

Reconnect DAB2 Antenna Amplifier connector and check the DAB2 radio is working by searching for any DAB2 radio stations and checking if the DAB2 source is active on the screen. Road test the vehicle and check the functionality is still working correctly in other signal areas.

Is the DAB radio working?

Yes No

### TOOLBOX

#### RUNNING APPLICATION - DAB ANTENNA 2 TEST

##### REPLACE DAB2 ANTENNA AMPLIFIER



Error

A fault has been found: DAB2 Antenna Amplifier. Refer to Workshop Manual Section 41:01 Information and Entertainment System Removal and Installation, DAB2 Antenna Amplifier.

Continue

- Repair Validation Code (RVC)

Repair Validation Code

Your unique Repair Validation Code is: **RGJDQAMJ**

This code confirms that you can carry out the repair identified by TOPIx, based on the diagnostic outcome.

OK

Module	Description	Status
AAM	Audio Amplifier Module	NO RESPONSE
BCCM	Battery Charger Control Module	NO RESPONSE
BECM	Battery Energy Control Module	NO RESPONSE
DADC	Driver Assistance Domain Controller	NO RESPONSE
GSM	Gear Shift Module	NO RESPONSE
ICCM	Infotainment Compute Control Module	NO RESPONSE
IPMA	Image Processing Module &	NO RESPONSE
NFSM	Near Field Sensing Module	NO RESPONSE
SGCM	Start/Generator Control Module	NO RESPONSE
TCM	Transmission Control Module	NO RESPONSE

Application name	Description	Action	Result
Bluetooth Antenna Test	Description not available.	RE-RUN	NO FAULT FOUND
DAB Antenna 2 Test	Description not available.	RE-RUN	FAULT FOUND > Link to repair
DAB Antenna Test	Description not available.	RUN	
Diesel Fuel Injector Test	This test is intended to di...	RUN	
Diesel Particulate Filter Test	This guided diagnostic te...	RUN	
Exhaust Gas Recirculation (EGR) Test	DO NOT USE. TDS found.	RUN	

- Click '> Link to repair' and this will hyperlink to the repair procedures within TOPIx workshop manual.

APPLICATIONS AND TROUBLESHOOTING

Vehicle Applications   Module Applications   Diagnostic Tests   History   DTCs

**Vehicle Tests**

Application name	Description	Action	Result
Bluetooth Antenna Test	Description not available.	RE-RUN	NO FAULT FOUND
DAB Antenna 2 Test	Description not available.	RE-RUN	FAULT FOUND > Link to repair

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## TOPIx Cloud Diagnostics

### Toolbox and Applications User Guide

WSM-42255 - Workshop manual New Range Rover Evoque (LZ) 2021

Search this document...

Hide document tree

Roof Pod  
AMFM Antenna Amplifier  
GNSS Signal Splitter Assembly  
High Mounted Stop Lamp Filter  
Bluetooth® Antenna  
Instrument Panel Speaker  
Rear Door Tweeter Speaker  
Loadspace Speaker  
Telematic Control Unit Module  
Wireless Device Charger Module  
4G Antenna  
Front Door Bass Speaker  
Rear Door Bass Speaker  
Subwoofer Speaker  
Front Door Mid-Range Speaker  
Front Door Tweeter Speaker  
GSM 1 Antenna  
FM Antenna Amplifier  
Front Portable Media Interface Panel  
Front Infotainment Control Module Back-up Battery

DAB2 Antenna Amplifier

417: Lighting  
418: Electrical Distribution  
418-00: Module Communications Network  
418-02: Wiring Harnesses  
Specification  
Description and Operation  
Wiring Harness - Vehicles With Non-Electric Vehicles

PUBLISHED: 13-MAY-2021  
2021.0 NEW RANGE ROVER EVOQUE (LZ), 415-01  
INFORMATION AND ENTERTAINMENT SYSTEM  
DAB2 ANTENNA AMPLIFIER (G2870978)

REMOVAL AND INSTALLATION

REMOVAL

NOTE:

- This procedure contains some variation in the illustrations depending on the vehicle specification, but the essential information is always correct.
- This procedure contains illustrations showing certain components removed to provide extra clarity.

1. Disconnect the 12 V system.  
Refer to: 12V System Disconnect (414-00 Battery and Charging System - General Information, General Procedures).

2.

### 1.5.8 History

- The 'History' toolbox provides the previous activities that have been ran or applied to the vehicle VIN entered in to TOPIx over time.
- This function can additionally be used show the history on the vehicle which has been connected to TOPIx Cloud Diagnostics on one or more sessions over time.
- History details are not isolated to a user or retailer. It will present all activities performed over time in regards to the VIN in session. This is a time efficiency feature for retailers as it shows quickly and easily what has been ran on a vehicle and its outcome.
- Click '**View All History**' that toggles to '**View Recent History**' to expand or contract the diagnostic session start points that have occurred on the vehicle regardless of TOPIx user or location.
- Expand 'Fault Found' to show the RVC code, Retailer ID code and direct link to the advised repair instructions within TOPIx

Currently Viewing  
New Range Rover Evoque / L551 2021  
SALZB2CNXMH135796  
READY  
Vehicle home page

Vehicle Summary  
Build date: 03-Feb-2021  
Selling Retailer: H8290  
Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

VEHICLE DATA

Modules Fault Timeline DTC HelpText DTC Snapshot

Vehicle last read: 01-Jul-2021 13:19:57 (UTC)  
Mileage Last Read: 11 km at 01-Jul-2021 13:18:51 (UTC)

Module	Description	Status
SGCM	Starter/Generator Control Module	NO RESPONSE
TCM	Transmission Control Module	NO RESPONSE
ABS	Anti-Lock Brake System Control Module	DTC
DADC	Driver Assistance Domain Controller	DTC
NFSM	Near Field Sensing Module	DTC
PCM	Powertrain Control Module	DTC
PSCM	Power Steering Control Module	DTC
AAM	Audio Amplifier Module	RESPONDED
BCM	Body Control Module	RESPONDED
CCM	Cruise Control Module	RESPONDED

APPLICATIONS AND TROUBLESHOOTING

Vehicle Applications Module Applications Module Programming Diagnostic Tests **History** DTCs

View All History

Date Requested (UTC)	Agent Group	Application	State	Result
		G2805486 - v10.0		
30-Apr-2021 09:36:55	User-92383	Service Message Reset G2805486 - v10.0	Finished	
30-Apr-2021 09:35:19	User-92383	Service Message Reset G2805486 - v10.0	Finished	
29-Apr-2021 19:44:00	M2400H4870	DAB Antenna 2 Test G2823637 - v1.0	Finished	Fault Found
	RVC	Retailer ID	Repair ID	
	RGJQAMJ	M2400H4870		> View repair
29-Apr-2021 19:43:38	M2400H4870	Bluetooth Antenna Test G2823638 - v1.0	Finished	No Fault Found
29-Apr-2021 19:42:38	M2400H4870	Service Message Reset G2805486 - v10.0	Finished	

- The data view can be sorted as follows:
  - Date Requested – oldest to newest
  - Agent Group – A-Z
  - Application Name – A-Z



## TOPIx Cloud Diagnostics

### Toolbox and Applications User Guide

- State – A-Z
- Result – A-Z
- **Note:** Filter and sort capability is available on all lists shown within the ‘VEHICLE DATA’ and ‘MODULE APPLICATIONS AND TROUBLESHOOTING’ panels.

VEHICLE DATA			
Modules	Fault Timeline	DTC HelpText	DTC Snapshot
Enter search term...	Vehi SELECT ALL 021 13:19:57 (UTC) Mileage Last Read: 11 km at 01-Jul-2021 13:18:51 (UTC)		
Module	Description	Status	
SGCM	Starter/Generator Control Module	NO RESPONSE	
TCM	Transmission Control Module	NO RESPONSE	
ABS	Anti-Lock Brake System Control Module	DTC	
DADC	Driver Assistance Domain Controller	DTC	
NFSM	Near Field Sensing Module	DTC	
PCM	Powertrain Control Module	DTC	
PSCM	Power Steering Control Module	DTC	
AAM	Audio Amplifier Module	RESPONDED	
BCM	Body Control Module	RESPONDED	
CCM	Cruise Control Module	RESPONDED	

APPLICATIONS AND TROUBLESHOOTING				
Vehicle Applications	Module Applications	Module Programming	Diagnostic Tests	History DTCs
Enter search term...	Enter search term...	Enter search term...	Enter search term...	Enter search term...
Date Requested (UTC)	Agent Group	Application	State	Result
01-Jul-2021 14:12:01	User-92383	DAB Antenna 2 Test G2823637 - v1.0	Finished	Fault Found
01-Jul-2021 14:07:09	User-92383	DAB Antenna 2 Test G2823637 - v1.0	Finished	Fault Found
01-Jul-2021 14:03:04	User-92383	DAB Antenna 2 Test G2823637 - v1.0	Finished	Fault Found
01-Jul-2021 14:01:42	User-92383	DAB Antenna 2 Test G2823637 - v1.0	Finished	Fault Found
01-Jul-2021 14:00:29	User-92383	DAB Antenna 2 Test G2823637 - v1.0	Finished	Fault Found
01-Jul-2021 13:58:33	User-92383	Exterior Lamps Condensation - Test G2749552 - v4.0	Finished	No Fault Found

### 1.5.9 DTCs

- The ‘DTC’ toolbox displays DTC codes, descriptions, timestamps and odometer value in kilometres or miles by use of the ‘Odometer unit’ preference selector.
- Upon selection of the ‘Odometer unit’ preference, it changes the odometer value for the DTCs shown within the ‘Odometer reading’ column and the ‘Mileage Last Read’ timestamp value.
- **Note:** If no DTCs are read from the vehicle, then this option is **not** available.
- The standard view is to show all captured DTCs from modules that have responded to communication requests by TOPIx Cloud Diagnostics.

**TOPIx**

Currently Viewing  
New Range Rover Evoque / L551 2021  
SALZB2CNXMH135796  
READY  
Vehicle home page

Vehicle Summary  
Build date: 03-Feb-2021  
Selling Retailer: HB290  
Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

VEHICLE DATA

Modules Fault Timeline DTC HelpText DTC Snapshot

Vehicle last read: 01-Jul-2021 13:19:57 (UTC)  
Mileage Last Read: 11 km at 01-Jul-2021 13:18:51 (UTC)

Module	Description	Status
SGCM	Starter/Generator Control Module	NO RESPONSE
TCM	Transmission Control Module	NO RESPONSE
ABS	Anti-Lock Brake System Control Module	DTC
DADC	Driver Assistance Domain Controller	DTC
NFSM	Near Field Sensing Module	DTC
PCM	Powertrain Control Module	DTC
PSCM	Power Steering Control Module	DTC
AAM	Audio Amplifier Module	RESPONDED
BCM	Body Control Module	RESPONDED
CCM	Cruise Control Module	RESPONDED

APPLICATIONS AND TROUBLESHOOTING

Vehicle Applications Module Applications Module Programming Diagnostic Tests History **DTCs**

View Selected Print All DTCs

Odometer unit: km

Module	DTC	Description	Date (UTC)	Odometer reading
ABS	U0400-87	Invalid data received - Missing message	01-Jul-2021 14:27:37	0
DADC	U0400-81	Invalid data received - Invalid serial data received	01-Jul-2021 14:27:37	0
DADC	U0400-82	Invalid Data Received - Alive / Sequence counter incorrect / Not updated	01-Jul-2021 14:27:37	0
DADC	U0400-86	Invalid Data Received - Invalid data received	01-Jul-2021 14:27:37	0
DADC	U0400-87	Invalid data received - Missing message	01-Jul-2021 14:27:37	0
NFSM	U0400-81	Invalid data received - Invalid serial data received	01-Jul-2021 12:37:22	9



## TOPIx Cloud Diagnostics

### Toolbox and Applications User Guide



TOPIx

Currently Viewing  
New Range Rover Evoque / L551 2021  
SALZB2CNXMH135796  
READY  
> Vehicle home page

Vehicle Summary  
> View all vehicle details  
Build date: 03-Feb-2021  
Selling Retailer: H8290  
Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

#### VEHICLE DATA

Modules Fault Timeline DTC HelpText DTC Snapshot

Module	Description	Status
SGCM	Starter/Generator Control Module	NO RESPONSE
TCM	Transmission Control Module	NO RESPONSE
ABS	Anti-Lock Brake System Control Module	DTC
DADC	Driver Assistance Domain Controller	DTC
NFSM	Near Field Sensing Module	DTC
PCM	Powertrain Control Module	DTC
PSCM	Power Steering Control Module	DTC
AAM	Audio Amplifier Module	RESPONDED
BCM	Body Control Module	RESPONDED
CCM	Cruise Control Module	RESPONDED

#### APPLICATIONS AND TROUBLESHOOTING

Vehicle Applications Module Applications Module Programming Diagnostic Tests History **DTCs**

View All Print All DTCs

Odometer unit: km

Module	DTC	Description	Date (UTC)	Odometer reading
PSCM	U0080-82	Vehicle Communication Bus F - Alive / sequence counter incorrect / not updated	01-Jul-2021 14:27:37	0
PSCM	U0080-87	Vehicle Communication Bus F - Signal Invalid	01-Jul-2021 14:27:37	0
PSCM	U3000-47	Control Module - Watchdog / Safety microC failure	01-Jul-2021 14:27:37	0

- Select a DTC within the **APPLICATIONS AND TROUBLESHOOTING** panel and then click 'DTC HelpText', TOPIx Diagnostics will show the DTC HelpText within the **VEHICLE DATA** panel.



TOPIx

Currently Viewing  
New Range Rover Evoque / L551 2021  
SALZB2CNXMH135796  
READY  
> Vehicle home page

Vehicle Summary  
> View all vehicle details  
Build date: 03-Feb-2021  
Selling Retailer: H8290  
Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

#### VEHICLE DATA

Modules Fault Timeline **DTC HelpText** DTC Snapshot

Module	Power Steering Control Module
DTC	U0080-82
Description	Vehicle Communication Bus F - Alive / sequence counter incorrect / not updated
Possible Causes	Action
NOTE: Circuit reference - FR_BP_DC - NOTE: Circuit reference - FR_BM_DC - NOTE: Circuit reference - FR_BP - NOTE: Circuit reference - FR_BM - • Invalid data received from another control module through the FlexRay bus • FlexRay bus circuit short circuit to ground, short circuit to power, open circuit, high resistance	NOTE: Do NOT replace any control modules just on the basis of this DTC • 1. Using the Jaguar Land Rover approved diagnostic equipment, check the snapshot data to determine the invalid data source control module. Check datalogger signal - Network Operating System ECU Local Signal Handle (0xD020). Refer to - Datalogger Signal 0xD020 - In section 211-00 Diagnosis and Testing of the workshop manual. Check other modules for the same DTC indicating a fault in the wiring harness and/or incompatibility in the software versions • 2. Refer to the electrical circuit diagrams and check the FlexRay bus circuit for short circuit to ground, short circuit to power, open circuit, high resistance

#### APPLICATIONS AND TROUBLESHOOTING

Vehicle Applications Module Applications Module Programming Diagnostic Tests History **DTCs**

View All Print All DTCs

Odometer unit: km

Module	DTC	Description	Date (UTC)	Odometer reading
PSCM	U0080-82	Vehicle Communication Bus F - Alive / sequence counter incorrect / not updated	01-Jul-2021 14:27:37	0
PSCM	U0080-87	Vehicle Communication Bus F - Signal Invalid	01-Jul-2021 14:27:37	0
PSCM	U3000-47	Control Module - Watchdog / Safety microC failure	01-Jul-2021 14:27:37	0

- New feature!** Select a DTC within the **APPLICATIONS AND TROUBLESHOOTING** panel and then click 'DTC Snapshot', TOPIx Diagnostics will show the DTC Snapshot data within the **VEHICLE DATA** panel.
- Note:** DTC Snapshot data is shown if available to read from the selected module and DTC. Some DTCs do not capture the snapshot data.



## TOPIx Cloud Diagnostics

### Toolbox and Applications User Guide



TOPIx

Currently Viewing  
New Range Rover Evoque / L551 2021  
SALZB2C/NXMH135796  
NGADP  
> Vehicle home page

Vehicle Summary > View all vehicle details  
Build date: 03-Feb-2021  
Selling Retailer: H8290  
Warranty start date:

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software

VEHICLE DATA	
Modules	Fault Timeline DTC Help
Trigger event - The first time the DTC information was cleared (including as a result of memory overflow), or the DTC was aged, that a system malfunction (resulting in status bit 3 being set) was detected.	
U0400-81 on module: NFSM	
Description	Reading
Global real time	457.99832
Total distance	9
Main engine control module voltage supply	15.0
In car temperature	7.0
External temperature	8.0
Power mode	Running
Power mode - quality factor	Power Mode Undefined
Engine RPM	1408.0
Vehicle speed	27

APPLICATIONS AND TROUBLESHOOTING				
Vehicle Applications	Module Applications	Module Programming	Diagnostic Tests	History DTCs
View All Print All DTCs		Odometer unit: km		
Module	DTC	Description	Date (UTC)	Odometer reading
NFSM	U0400-81	Invalid data received - Invalid serial data received	01-Jul-2021 12:37:22	9
NFSM	U0400-87	Invalid data received - Missing message	01-Jul-2021 14:50:20	0

- The DTC information can be printed or saved to the local device by use of 'Print All DTCs'
- There are print options to choose that affect how the DTC data values are shown when printed or saved as a pdf document on the user device.
  - Odometer Kilometres/miles
  - Include snapshot data for DTCs on modules
  - Check box to select all modules with DTCs, singular module or multiple modules
- Select 'OK' and another pop-up window will be shown to request the device user to locate and select a connected printer or to print to a pdf document and rename the document if desired, which will be saved to a selected destination on the user's device.

#### Select Print Options

- ☒ Odometer in km  
☐ Odometer in mi
- ☒ Print snapshot data for DTCs on modules:
- ☒ ABS  
☒ BCM  
☐ CHCM  
☒ DADC  
☐ GSM  
☒ IDMA  
☒ IPC  
☒ NFSM  
☒ PCM  
☒ PSCM  
☒ TCU  
☒ TPM

OK

Cancel





## TOPIx Cloud Diagnostics

### Toolbox and Applications User Guide

B1974-86	Rear View Mirror Module - Signal Invalid	
Snapshot Data	Description	Reading
	Global real time	148189.94
	Total distance	8955
	Main engine control module voltage supply	14.25
	In car temperature	5.0
	External temperature	5.0
	Power mode	Ignition On
	Power mode - quality factor	Power Mode Undefined
	Engine RPM	0.0
	Vehicle speed	0

- Click 'View All' and this will return the view to the complete list of captured DTCs.
- 'View All' toggles to 'View Selected' when the DTC panel shows all DTCs
- Should you double click a module, within the **VEHICLE DATA** panel, this will return the view to the complete list of captured DTCs.

jlridssddmongoose.com

#### 1.6.1 Module Programming

- The 'Module Programming' tab (**new feature in development**) will show a list of modules where content is available within TOPIx Diagnostics to replace or update a module.
- To apply the latest available software and necessary set-up and configuration data to the selected module.

**TOPIx**

Currently Viewing  
Defender / L663 2020  
SALEA7BU12015068  
 **READY**  
Vehicle home page

Vehicle Summary  
Build date: 10-Jul-2020  
Selling Retailer: 24089  
Warranty start date: 15-Oct-2020

Vehicle Documents OSH RTS **Diagnostics** Vehicle Software


**VEHICLE DATA**  
Modules Fault Timeline DTC HelpText DTC Snapshot  
Vehicle last read: 25-Jun-2021 08:54:39 (UTC)  
Mileage Last Read: 11210 km at 25-Jun-2021 08:53:38 (UTC)  

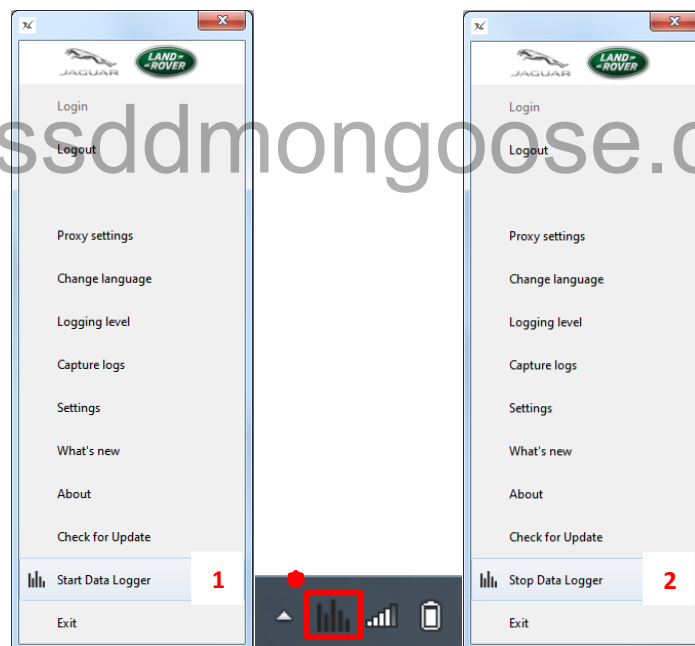
Module	Description	Status
BECM	Battery Energy Control Module	RESPONDED
CCM	Cruise Control Module	RESPONDED
DDM	Driver Front Door Module	RESPONDED
DRDM	Driver Rear Door Module	RESPONDED
DSM	Driver Front Seat Module	RESPONDED
EPICD	Electric Power Inverter Converter Control Module 'D'	RESPONDED
GWM	Gateway Module A	RESPONDED
HCM	Headlamp Control Module A	RESPONDED
HCMB	Headlamp Control Module B	RESPONDED
HVAC	HVAC Control Module	RESPONDED
IGM	Infotainment Gateway Module	RESPONDED

**APPLICATIONS AND TROUBLESHOOTING**  
Vehicle Applications Module Applications **Module Programming** Diagnostic Tests History DTCs  
GWM  

Application name	Description	Action
GWM - Software - Replace Module	Beta version - Do not use	
GWM - Software - Update Module	Beta version - Do not use	

### 1.6.2 Data Logger

- User must 'Login' to the Diagnostic Device Agent to activate the 'Start Data Logger' function.
- 'Start Data Logger' is used for real-time monitoring of vehicle sensors and signals.
- 'Start Data Logger' will launch a new internet window/tab/screen for Data Logger use.
- For the best user experience Jaguar Land Rover recommend to use Google Chrome browser.
- **Note: If the new internet window/tab/screen launches by Internet Explorer, it may not work, the URL address will need to be copied to Chrome browser.**
- The Diagnostic Device Agent icon, within the lower tool tray, changes to a bar graph icon  when Data Logger has started.
- Screen shows the Diagnostic Device Agent is connected and works correctly with connected vehicle VIN.
- Function tab changes to 'Stop Data Logger' to exit the mode when selected.
- The Diagnostic Device Agent will reconnect to the cloud environment upon 'Stop Data Logger' being clicked and Wi-Fi connection made.
- Refer to TOPIx Cloud Diagnostics – Data Logger User Guide for additional information.



Item	Description
1	Start Data Logger
2	Stop Data Logger

### 1.6.3 Summary of other features

- Built-in log capture capability for delivery or functionality issues located within the DDA as 'Capture logs'.
- Simple refresh function shown on TOPIx screen if connection to a vehicle is lost.

## 2 Troubleshoot Guide

### 2.1 TOPIx Cloud Diagnostics does not deliver to expectations

#### 2.1.1 Internet concerns

- Internet has lost connection to your provider – check internet connection is complete and you can access TOPIx.
- Internet browser is incompatible or not up to date – check system specifications and update if required.
- **For the best user experience Jaguar Land Rover recommend to use Google Chrome browser.**

#### 2.1.2 Fitted module on vehicle is shown as no response

- the TOPIx Diagnostic screen by photo or screen print methods.
- Run 'Network Integrity Test' to refresh the vehicle module data collect.
- Check if the module with no response is Capture the subject of the customer complaint or symptoms of a vehicle feature/function that does not work.
  - If the above checks have been done and the cause of no module response has not been resolved, then report the concern to Jaguar Land Rover by means of TOPIx feedback or TOPIx Technical Support. Report the error message, actions done with images and data attached.

#### 2.1.3 Vehicle Communication Interface (VCI) and vehicle communications

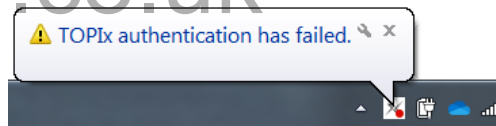
- Unable to connect to a vehicle – check the VCI function lights indicate correct operation and connection to the vehicle. Resolve if there is an error with the mechanical connection to the vehicle.
- Unable to connect to a vehicle – click Refresh Connection Status on the TOPIx screen to reset connection to the vehicle. It is normal for a delay to occur before the TOPIx screen refreshes. This is to allow for the TOPIx system to re-establish its connection.
- Make sure the Bosch VCI drivers are installed, especially if the user's machine does not have Pathfinder already installed.
- If the designated machine does not have Pathfinder installed the VCI drivers can be obtained by the link 'BOSCH VCI Drivers' (as shown in image below).
- There is a 3 minute system timeout if connection to the vehicle is not made after login. User will need to logout and login again the DDA to retry for vehicle communication.

## LINKS

Jaguar ePQR - Electronic Product Quality Reporting
Land Rover ePQR - Electronic Product Quality Reporting
<b>BOSCH VCI Drivers</b>
Diagnostic Device Agent
Diagnostic Tool Vendor - for enquiries please contact <a href="mailto:topix@jaguarlandrover.com">topix@jaguarlandrover.com</a>
Jaguar Land Rover Equipment Workshop
EU only access to all Modules including Security - Accreditation Process Enquiries
Pathfinder Software Download
SDD Manual Software Download
TOPIx Diagnostics Feedback - for enquiries please contact <a href="mailto:TOPIxDiagnosticFeedback@bulkmail.jaguarlandrover.com">TOPIxDiagnosticFeedback@bulkmail.jaguarlandrover.com</a>
Jaguar Daimler Heritage Trust – for older publications not available on Topix or the Webshop
Jaguar Webshop
Land Rover Webshop
Vehicle Key Security Code Request Form - California Only
Adobe Acrobat Reader
Adobe SVG Viewer
Alternative fuels system manufacturer - for enquiries please contact <a href="mailto:msingh32@jaguarlandrover.com">msingh32@jaguarlandrover.com</a>
Electronic Parts Catalogue
Inspection and Testing Services (ITS)
Jaguar Excellence training
Land Rover Excellence training

## 2.2 Unexpected operation of the Diagnostic Device Agent

- The Diagnostic Device Agent may automatically logout should any of the following occur:
  - A significant duration of inactivity
  - TOPIx session has expired
  - Internet connection has been interrupted or lost over time
- Pathfinder does not communicate to a connected vehicle – the computer Ethernet port may be still connected to the Diagnostic Device Agent. Right click the Diagnostic Device Agent icon and select Exit.
- Refer to [1.4.12 Exit](#) in the Diagnostic Device Agent – User and Troubleshoot Guide.
- Diagnostic Device Agent Login has a **3 minute timeout to complete**. User credentials are expected to be entered within 3 minutes after 'Login' is clicked. Failure to authenticate will occur if the login is not completed within 3 minutes and the login process must be restarted.



- Note:** Use of diagnostic applications may timeout after 10 minutes of user inactivity of TOPIx Cloud Diagnostics.
- A user may have to resume or restart a new session if inactivity has occurred.



## 3 Frequently Asked Questions

Q - Does TOPIx Diagnostics and the Diagnostic Device Agent need additional hardware?

A - No – TOPIx cloud base diagnostics hosts the core software and does not require excessive hard disk space.

The latest Vehicle Communication Interface (VCI) is supported by the Diagnostic Device Agent.

Q - Will there be future demands from Jaguar Land Rover to retailers for new computer devices to be purchased as a minimum standard?

A - The vision is TOPIx Cloud Diagnostics and the Diagnostic Device Agent to be compatible with compatible devices.

Q - What internet browsers are required?

A - For the best possible experience Jaguar Land Rover recommend to use Google Chrome browser.

Q - Is there an offline capability?

A - No – TOPIx and the Diagnostic Device Agent require an internet connection at all times. To allow authentication, latest information and functionality to be available to the user. Offline capability can be used with Data Logger upon this new feature being released soon.

Q - How does a user extract vehicle diagnostic session data?

A - In the future, this is done automatically whilst the session is active and on closure of a session. Data is passed from the user device to the TOPIx system. Session data could be viewed within TOPIx by the user and Jaguar Land Rover Engineers.

Q - User is not able to run any applications in the list and are greyed out / inactive. How is this resolved?

A - If an Automatic Network Integrity Test (ANIT) or Network Integrity Test (NIT) is not completed, then it will not be possible to run any other application that needs communication to the vehicle.

Refresh the screen as this may provide the completed ANIT data to be shown on screen.

If the Network Integrity Test (NIT) is available to click 'Run' then select and allow to complete.

Logout the DDA, select Login and start a new session.

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