Tech Tool

Tech Tool | Links | Help

Dipak Manna

Product | **Product History** | **Diagnose** | **Test** | **Calibrate** | **Program** | **Impact**

1. View DTC information (Step 1 of 3)

Refresh | Clear... | Filter | Filter applied.

DTC List (3 Items)

Product Time: - **Engine Hours:** 0 **Readout Time:** 29/08/2025, 23:27:47

Control Unit	DTC	Status	Count	First Occurrence	Last Occurrence
Front Chassis I/O Module (FCIOM)	C104415: City Horn Circuit, Circuit Short To Battery or Open	Inactive	2	29/08/2025, 19:35:01	29/08/2025, 19:56:38
Front Chassis I/O Module (FCIOM)	C109311: Windscreen Washer Fluid Pump Circuit, Circuit Short To Ground	Inactive	2	29/08/2025, 18:17:44	29/08/2025, 22:56:51
Front Chassis I/O Module (FCIOM)	C109315: Windscreen Washer Fluid Pump Circuit, Circuit Short To Battery or Open	Active	3	29/08/2025, 18:16:52	29/08/2025, 23:03:43

Windscreen Washer Fluid Pump Circuit

Detailed Status Information

Freeze Frame Information

1. View DTC information

Continue >

Chassis ID: 8 992520 VIN: YV2XTW0A3S8992520 Work Order: 7764

Product Online

27°C Haze ENG 23:28 29-08-2025

Tech Tool

Tech Tool | Links | Help

Dipak Manna

Product | **Product History** | **Diagnose** | **Test** | **Calibrate** | **Program** | **Impact**

DTC

FCIOM-C109315: Active
Occurrences: 3

Detailed DTC Information

FCIOM – Front Chassis I/O Module
C1093 – Windscreen Washer Fluid Pump Circuit
15 – Circuit Short To Battery or Open

	Status	Occurrences	First occurence	Last occurrence
⌄	Active	3	Fri, 29 Aug 2025 (18:16:52)	Fri, 29 Aug 2025 (23:03:43)

Failure event

- Higher voltage than normal
- The voltage at pin X2:7 is above normal value

Observable symptoms

- Activation failure, Windscreen Washer Fluid Pump
- Deactivation failure, Windscreen Washer Fluid Pump

Possible root causes

- Wiring harness, Damaged connector

Fault tracing areas

1. **Wiring harness**
2. **Windscreen Washer Fluid Pump (M02)**
3. **FCIOM (Front Chassis Input Output Module) (A1…**

Function status

Repair verification

Exit

Chassis ID: 8 992520 VIN: YV2XTW0A3S8992520 Work Order: 7764

Product Online

27°C Haze ENG 23:30 29-08-2025

Tech Tool

Tech Tool | Links | Help

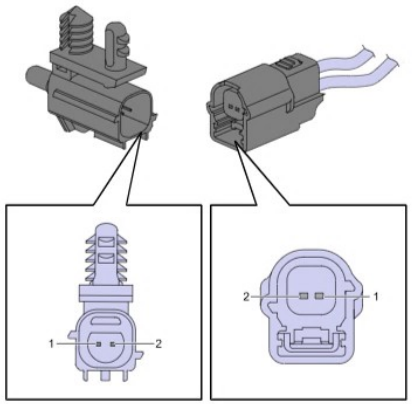
Dipak Manna

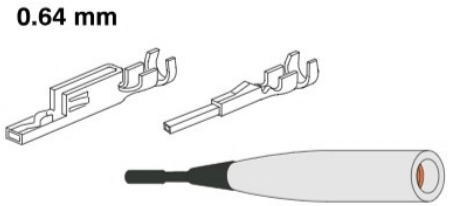
Product | **Product History** | **Diagnose** | **Test** | **Calibrate** | **Program** | **Impact**

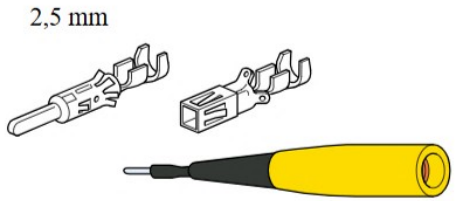
DTC

FCIOM-C109315: Active
Occurrences: 3

Test illustration







1 Connector check:

IMPORTANT

Before disconnecting any connectors make sure the vehicle is in **Power OFF** mode

Note! View Schematic to identify relevant pins to check

- Check that the connectors are properly connected and locked into position
- Disconnect and check the component connector
- Inspect pins and terminals for oxidations or corrosion
- Ensure that the pins and terminals are locked into the connectors and that they are not pushed back out of the sockets
- Check the pins and terminal are not damaged (which can cause poor connection)

IMPORTANT

After completed procedure, reconnect all connectors

Note! After any action, perform a repair verification to test if the fault has changed status. The fault might have been corrected during fault

Exit

Chassis ID: 8 992520 VIN: YV2XTW0A3S8992520 Work Order: 7764

Product Online

27°C Haze ENG 23:30 29-08-2025

Tech Tool

Tech Tool | Links | Help

Dipak Manna

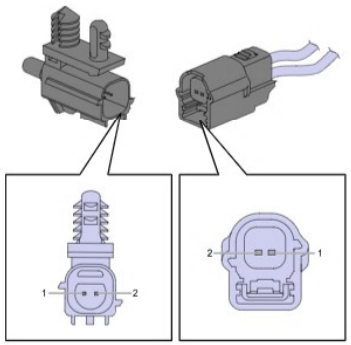
Product | Product History | Diagnose | Test | Calibrate | Program | Impact

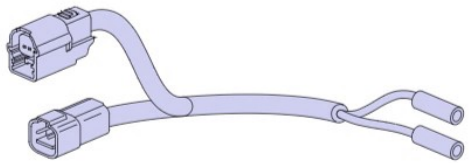
DTC

FCIOM-C109315: Active
Occurrences: 3

Test illustration

Connector:





2 Continuity test

General information

Check the wiring harness when there are indications of damage or if other tests indicate fault in the wiring harness. Voltage and ground control is measured at the electrical component to determine if the fault is in the wiring harness or the ECU output, battery, fuse, relay or ground point.

Wiring harness integrity should result with approximately 0 Ω (connector - connector)

Note! Check all relevant connectors for voltage supply and ground connection

IMPORTANT

Before breaking any circuits or connecting measurement tools: Power supply OFF position

Note! View Schematic to identify relevant pins to check

Connector	Function	Connector pin	Tool pin
	Supply voltage (5V)	1	Red

Exit

Chassis ID: 8 992520 VIN: YV2XTW0A3S8992520 Work Order: 7764

Product Online

27°C Haze ENG 23:30 29-08-2025

Tech Tool

Tech Tool | Links | Help

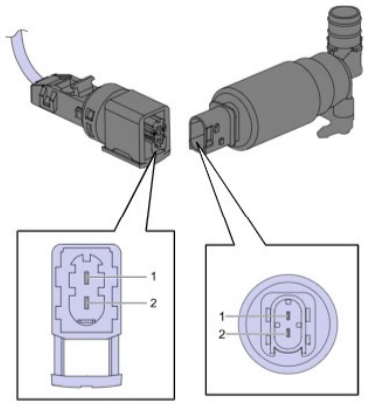
Dipak Manna

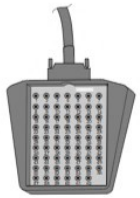
Product | **Product History** | **Diagnose** | **Test** | **Calibrate** | **Program** | **Impact**

DTC

FCIOM-C109315: Active
Occurrences: 3

Test illustration





recommendation is to disconnect the component connector and refresh DTCs. Use Repair verification procedure to refresh DTC read out. If the DTC become inactive the fault is in the component

Note! Check all relevant connectors for voltage supply and ground connection

IMPORTANT

Before breaking any circuits or connecting measurement tools: Power supply OFF position

Perform the suggested measurements and fill in the result in the table

Connector		Tool pin	Target values	Entered value
Function	Pin			
Control wire	M02:2	+ 60 (D)	2.5-6.0Ω [1]	0 Ω
Ground	M02:1	- 59 (D)		

[1] Resistance check

Test result

Pass | Fail

Exit

Chassis ID: 8 992520 VIN: YV2XTW0A3S8992520 Work Order: 7764

Product Online

27°C Haze ENG 23:31 29-08-2025

Tech Tool

Tech Tool | Links | Help

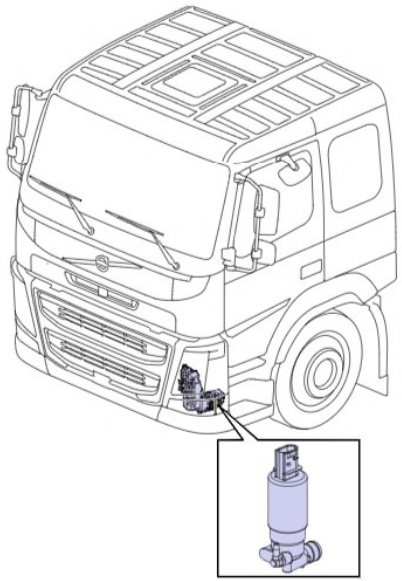
Dipak Manna

Product | Product History | Diagnose | Test | Calibrate | Program | Impact

FCIOM-C109315: Active
Occurrences: 3

Component location

Illustrations are used for reference only, may differ slightly from the actual vehicle



Fault tracing areas

1 **Wiring harness**

2 **Windscreen Washer Fluid Pump (M02)**

- 1 Connector check
- 2 Electrical test

3 **FCIOM (Front Chassis Input Output Module) (A1…**

Function status

Repair verification

Exit

Chassis ID: 8 992520 VIN: YV2XTW0A3S8992520 Work Order: 7764

Product Online

27°C Haze ENG 23:32 29-08-2025

Tech Tool

Tech Tool | Links | Help

Dipak Manna

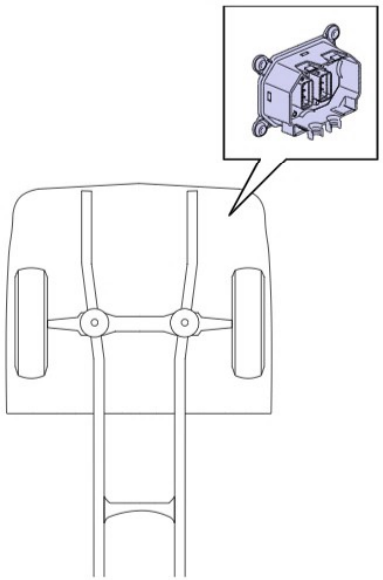
Product | **Product History** | **Diagnose** | **Test** | **Calibrate** | **Program** | **Impact**

DTC

FCIOM-C109315: Active
Occurrences: 3

Component location

Illustrations are used for reference only, may differ slightly from the actual vehicle



Fault tracing areas

1. **Wiring harness**
2. **Windscreen Washer Fluid Pump (M02)**
3. **FCIOM (Front Chassis Input Output Module) (A1…**

IMPORTANT

Proceed with the tests on the ECU only after the other fault tracing areas are completed

Connector check: A162.X2

Function status

Repair verification

Exit

Chassis ID: 8 992520 VIN: YV2XTW0A3S8992520 Work Order: 7764

Product Online

27°C Haze ENG 23:32 29-08-2025

Tech Tool

Tech Tool | Links | Help

Dipak Manna

Product | **Product History** | **Diagnose** | **Test** | **Calibrate** | **Program** | **Impact**

DTC

FCIOM-C109315: Inactive
Occurrences: 3

Detailed DTC Information

FCIOM – Front Chassis I/O Module
C1093 – Windscreen Washer Fluid Pump Circuit
15 – Circuit Short To Battery or Open

	Status	Occurrences	First occurence	Last occurrence
⌄	Inactive	3	Fri, 29 Aug 2025 (18:16:52)	Fri, 29 Aug 2025 (23:03:43)

Failure event

- Higher voltage than normal
- The voltage at pin X2:7 is above normal value

Observable symptoms

- Activation failure, Windscreen Washer Fluid Pump
- Deactivation failure, Windscreen Washer Fluid Pump

Possible root causes

- Wiring harness, Damaged connector

obvious fault has been detected. This might point to an area of further investigation.

The Start button runs an ECU reset before checking the DTC status

Conditions

In order to run the ECU internal diagnostic for this DTC the following conditions must be fulfilled:

Note! If repair verification is referred to run an operation, the DTC must be cleared before the operation is started

Windscreen Washer Fluid Pump,Activate

Cancel

Reset ECU ✓

Run Diagnostic ✓

Refresh DTC

40%

Exit

Chassis ID: 8 992520 VIN: YV2XTW0A3S8992520 Work Order: 7764

Product Online

27°C Haze ENG 23:41 29-08-2025

Tech Tool

Tech Tool | Links | Help

Dipak Manna

Product | **Product History** | **Diagnose** | **Test** | **Calibrate** | **Program** | **Impact**

1. View DTC information (Step 1 of 3)

Refresh | Clear... | Filter | Filter applied.

DTC List (3 Items)

Product Time: - **Engine Hours:** 0 **Readout Time:** 29/08/2025, 23:47:30

Control Unit	DTC	Status	Count	First Occurrence	Last Occurrence
Front Chassis I/O Module (FCIOM)	C104415: City Horn Circuit, Circuit Short To Battery or Open	Inactive	2	29/08/2025, 19:35:01	29/08/2025, 19:56:38
Front Chassis I/O Module (FCIOM)	C109311: Windscreen Washer Fluid Pump Circuit, Circuit Short To Ground	Inactive	2	29/08/2025, 18:17:44	29/08/2025, 22:56:51
Front Chassis I/O Module (FCIOM)	C109315: Windscreen Washer Fluid Pump Circuit, Circuit Short To Battery or Open	Inactive	3	29/08/2025, 18:16:52	29/08/2025, 23:03:43

City Horn Circuit

Detailed Status Information

Freeze Frame Information

1. View DTC information

Continue >

Chassis ID: 8 992520 VIN: YV2XTW0A3S8992520 Work Order: 7764

Product Online

Gold +1.88% ENG 23:47 29-08-2025