

TECHNICAL BULLETIN

JTB00230NAS2

28 JAN 2013



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NOTE: The information in Technical Bulletins is intended for use by trained, professional Technicians with the knowledge, tools, and equipment required to do the job properly and safely. It informs these Technicians of conditions that may occur on some vehicles, or provides information that could assist in proper vehicle service. The procedures should not be performed by 'do-it-yourselfers'. If you are not a Retailer, do not assume that a condition described affects your vehicle. Contact an authorized Jaguar service facility to determine whether this bulletin applies to a specific vehicle.

This reissue replaces all previous versions. Please destroy all previous versions.

SECTION: 307-05

Transmission Control Switch Module DTC Diagnostics

AFFECTED VEHICLE RANGE:

XF (X250)	Model Year:	2009 Onwards
	VIN:	R00001 Onwards
XJ Range (X351)	Model Year:	2010 Onwards
	VIN:	V00001 Onwards
XK Range (X150)	Model Year:	2010 Onwards
	VIN:	B32753 Onwards

MARKETS:

NAS

CONDITION SUMMARY:

Situation:

The Transmission Control Switch (TCS) may fail to rise, fail to rotate out of Park (P), and/or fail to rotate between gears. This bulletin is to aid in diagnosing of Diagnostic Trouble Codes (DTC) for the Transmission Control Switch (TCS) module.



NOTE: The Transmission Control Switch (TCS) may also be referred to as:

- Electronic Transmission Switch (ETS)
- Gear Selector Module (GSM)
- JaguarDrive Selector
- Transmission Range Selector (TRS)
- Transmission Rotary Switch (TRS)
- Transmission Shift Module (TSM)



NOTE: Use the table below to assist with the diagnosing of the various Diagnostic Trouble Codes (DTC).

Cause: These may be caused by various issues which make the TCS fail to operate.



NOTE: Repairs to be carried out as a separate claim.

Action: In the event of a customer concern of the above, refer to the Diagnostic Procedure outlined below.

PARTS:

No Parts Required

TOOLS:

IDS with latest IDS-DVD and Calibration File

Jaguar Land Rover-approved Midtronics Vehicle Power Supply

WARRANTY:**NOTE: Repairs to be carried out as a separate claim.****NOTE: Repair procedures are under constant review, and therefore times are subject to change; those quoted here must be taken as guidance only. Always refer to TOPIx to obtain the latest repair time.****NOTE: DDW requires the use of causal part numbers. Labor only claims must show the causal part number with a quantity of zero.**

DESCRIPTION	SRO	TIME (HOURS)	CONDITION CODE	CAUSAL PART
Transmission Control Switch Module - DTC Diagnostics - XF	10.10.99	0.20	42	C2Z22516
Transmission Control Switch Module - DTC Diagnostics - XJ	10.10.99	0.20	42	C2D17959
Transmission Control Switch Module - DTC Diagnostics - XK	10.10.99	0.20	42	C2P20671

**NOTE: Normal Warranty procedures apply.****DIAGNOSTIC PROCEDURE:**

Use the Diagnostic Trouble Codes (DTC) table below for the Transmission Control Switch (TCS) module fault diagnosis.

**NOTE: 'X' = DO NOT REPLACE TCS module - Perform the diagnostics specified in SDD/TOPIx Workshop Manual section 100-00 Diagnostics.****NOTE: 'Y' = Replace the TCS module.****NOTE: '0' = Step 1: Perform diagnostics specified in SDD/TOPIx Workshop Manual section 100-00 Diagnostics. Step 2: clear all DTCs; cycle the ignition; engage Drive (D); return to the Park (P) position; test with SDD. Step 3: If Steps 1 and 2 do not resolve issue, replace TCS module.**

Diagnostic Trouble Code (DTC)	Transmission Control Switch (TCS) Module - Intermittent DTC	Transmission Control Switch (TCS) Module - Permanent DTC	Transmission Control Module (TCM) - Intermittent DTC	Transmission Control Module (TCM) - Permanent DTC
P176A-01	X	Y	X	X
P176A-13	X	Y	X	X
P176A-19	X	Y	X	X
P176A-94	X	Y	X	X
P176C-07	X	0	X	X
P176C-11	X	Y	X	X
P176C-12	X	Y	X	X
P176B-71	X	Y	X	X
P176C-73	X	0	X	X
B1087-87	X	X	X	0
U101B-87	X	X	X	0
P0814-01	X	Y	X	X
P0850-02	X	X	X	X
P1707-07	X	X	X	X
P1707-77	X	X	X	X
P1707-72	X	X	X	X
P0606-47	X	X	X	X
P0919-93	X	X	X	X

Diagnostic Trouble Code (DTC)	Transmission Control Switch (TCS) Module - Intermittent DTC	Transmission Control Switch (TCS) Module - Permanent DTC	Transmission Control Module (TCM) - Intermittent DTC	Transmission Control Module (TCM) - Permanent DTC
C1B00-68	X	X	X	X
P0850-29	X	X	X	X
P081C-64	X	X	X	X

The following DTCs may be generated by Brake Pedal pressure or Brake Pedal Switch DTCs. Follow the Diagnostic Procedure below for Brake Pedal Switch/Brake Pedal Pressure Diagnostics.



NOTE: The Diagnostic Procedure below does not apply to XF vehicles built prior to VIN R47154.



NOTE: X = DO NOT REPLACE TCS Module- Perform the diagnostics specified in SDD/TOPIx Workshop Manual Section 100-00 Diagnostics.

Diagnostic Trouble Codes (DTC)	Transmission Control Switch (TCS) Module - Intermittent DTC	Transmission Control Switch (TCS) Module - Permanent DTC	Transmission Control Module (TCM) - Intermittent DTC	Transmission Control Module (TCM) - Permanent DTC
C1D15-64	X	X	X	X
P1571-64	X	X	X	X
P0571-68	X	X	X	X
P0504-62	X	X	X	X

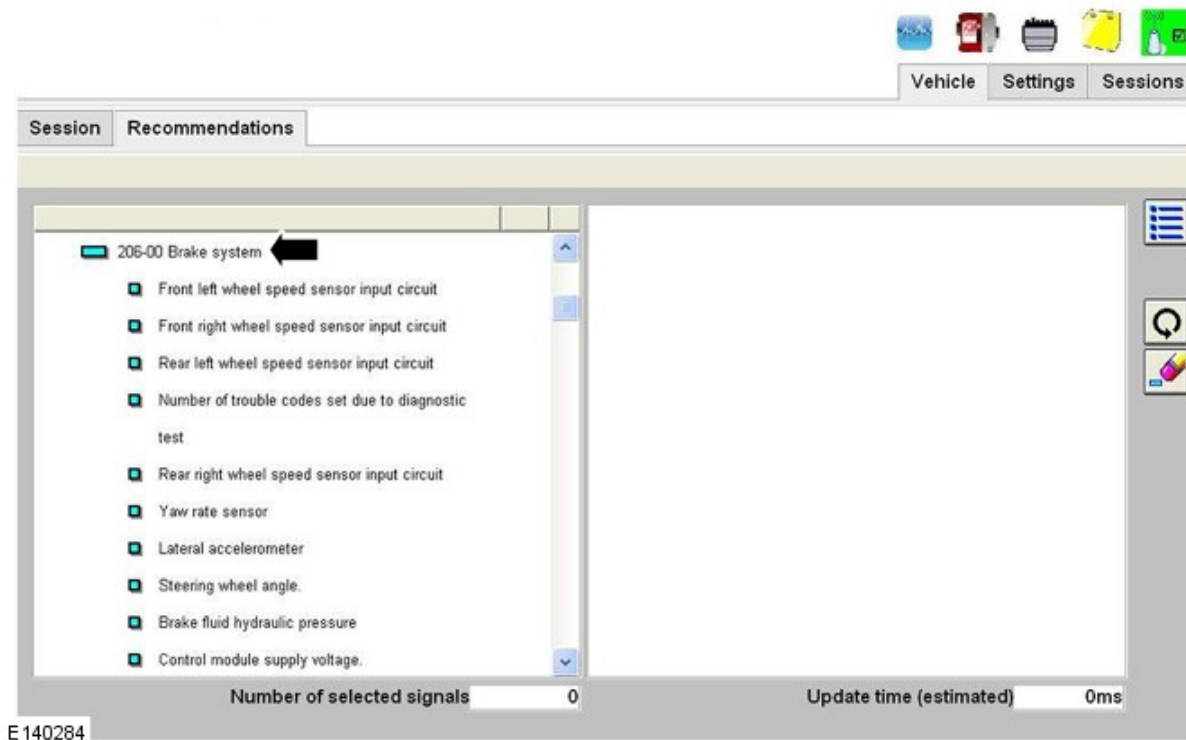
1.  **CAUTION: Ensure all ignition 'ON' / ignition 'OFF' requests are carried out; failure to perform these steps may cause damage to control modules in the vehicle.**



CAUTION: A Jaguar Land Rover-approved Midtronics Vehicle Power Supply must be connected to the vehicle battery during IDS/SDD diagnosis / module programming.

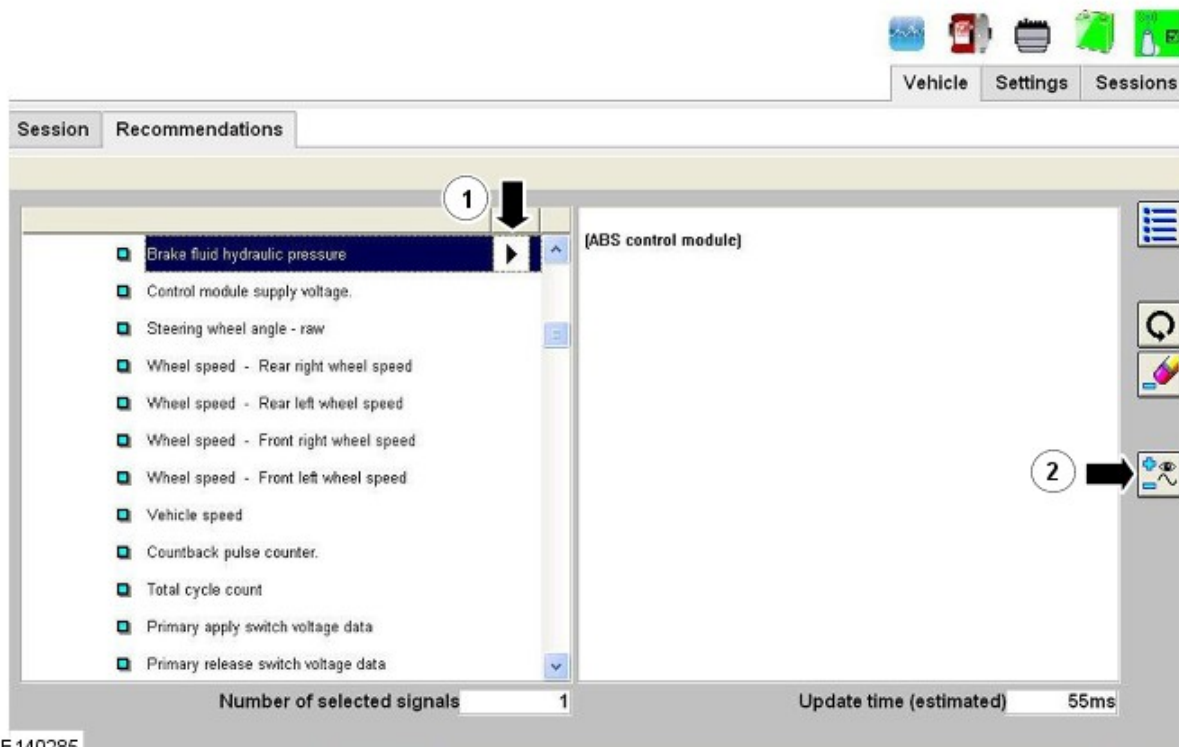
Connect a Jaguar Land Rover-approved power supply to the vehicle.

2. Turn the ignition 'ON' (engine not running).
3. Connect the Integrated Diagnostics System (IDS) to the vehicle and begin a new Symptom Driven Diagnostics (SDD) session.
4. Follow the on-screen prompts, allowing SDD to read the VIN and identify the vehicle.
5. From the Session Type selection screen, select 'Measurement Applications'.
6. Select the 'Recommendations' tab.
7. From the Recommendations tab run 'Complete data logger'.
8. Select / expand the '206-00 Brake system' tab.



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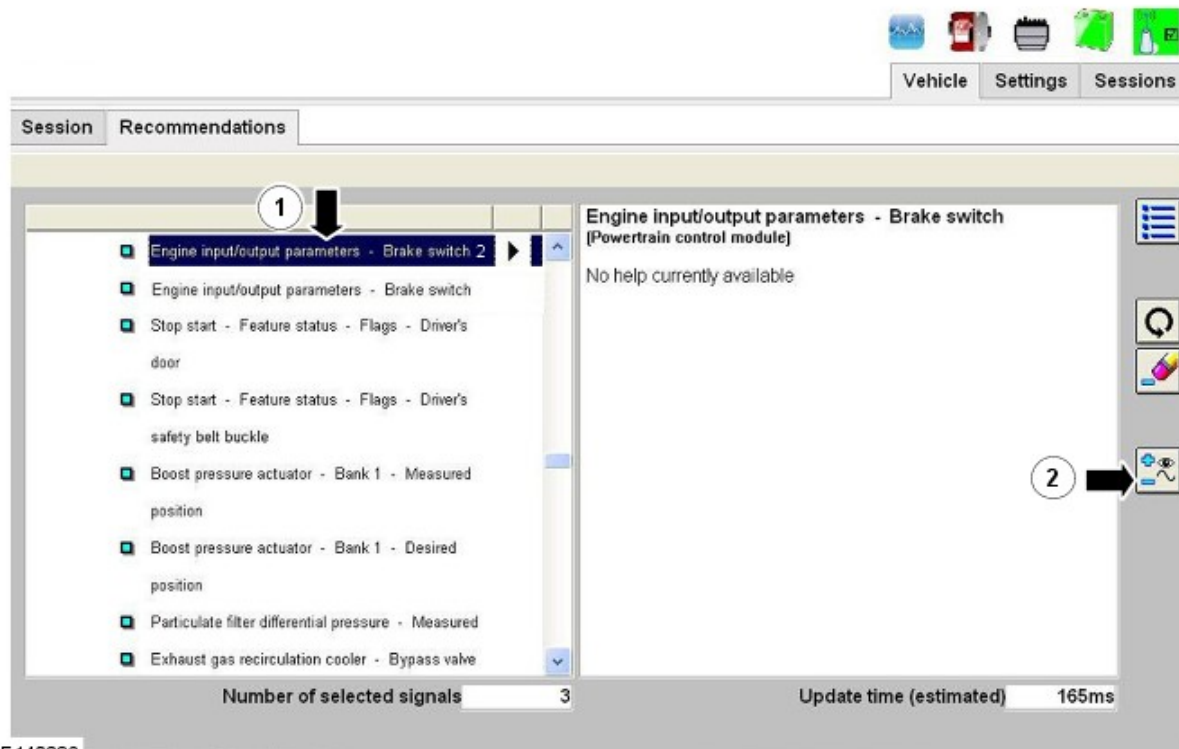
9. Select 'Brake fluid hydraulic pressure' and click on the icon (1) shown.



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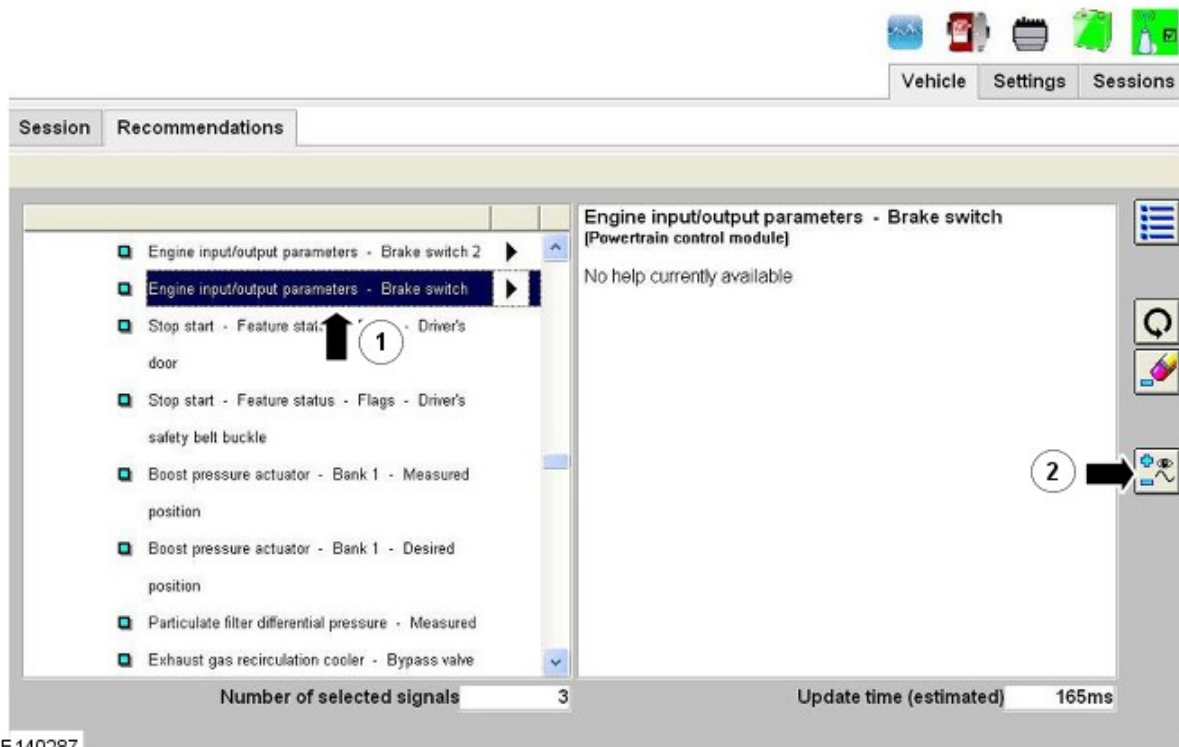
10. Expand Engine system.

- Select 'Engine input/output parameter - Brake switch 2' then click on the icon shown (2).



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11. Select 'Engine input/output parameter - Brake switch' (1) then click on the icon shown (2).

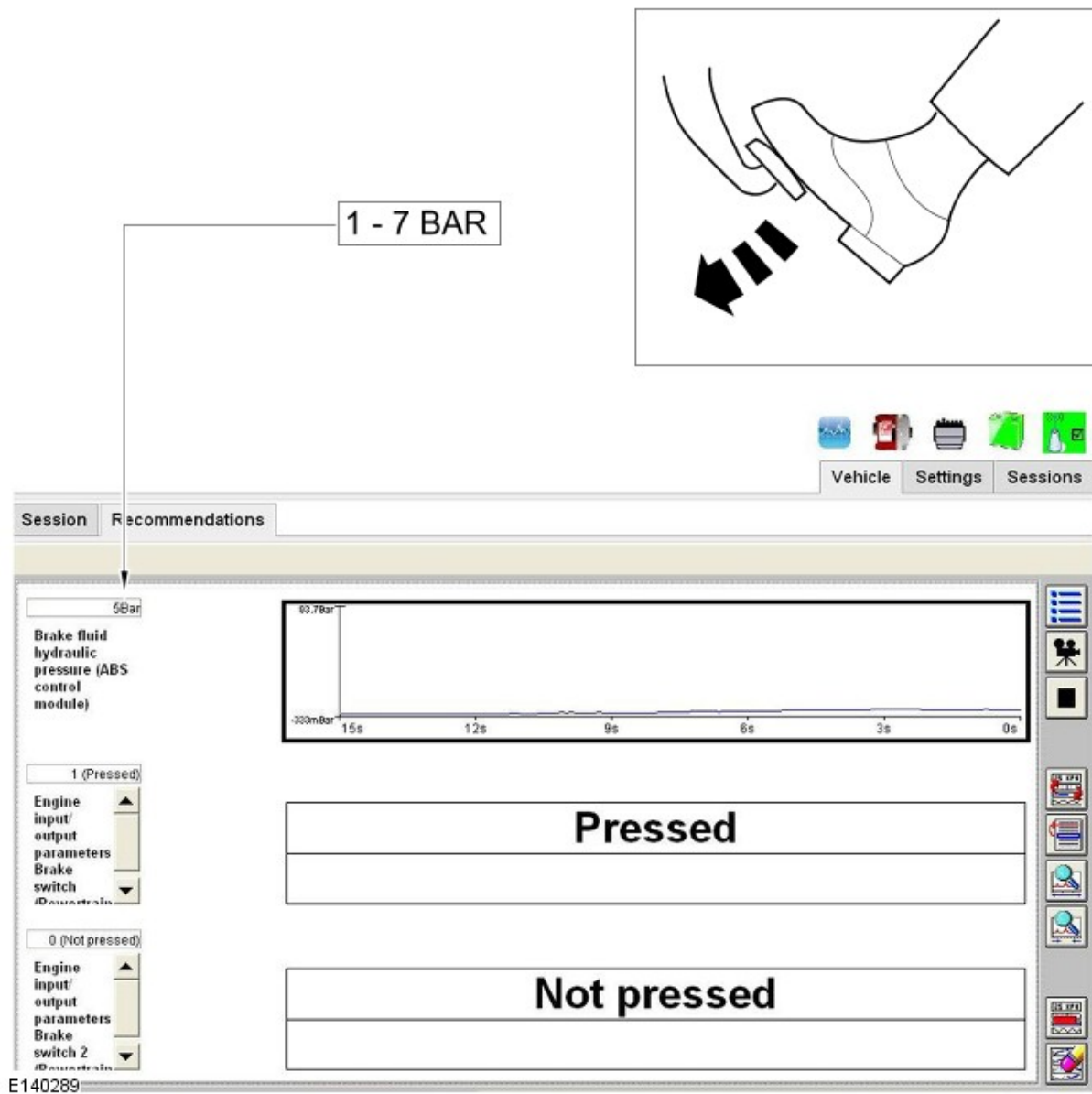


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12. Click on the icon shown.

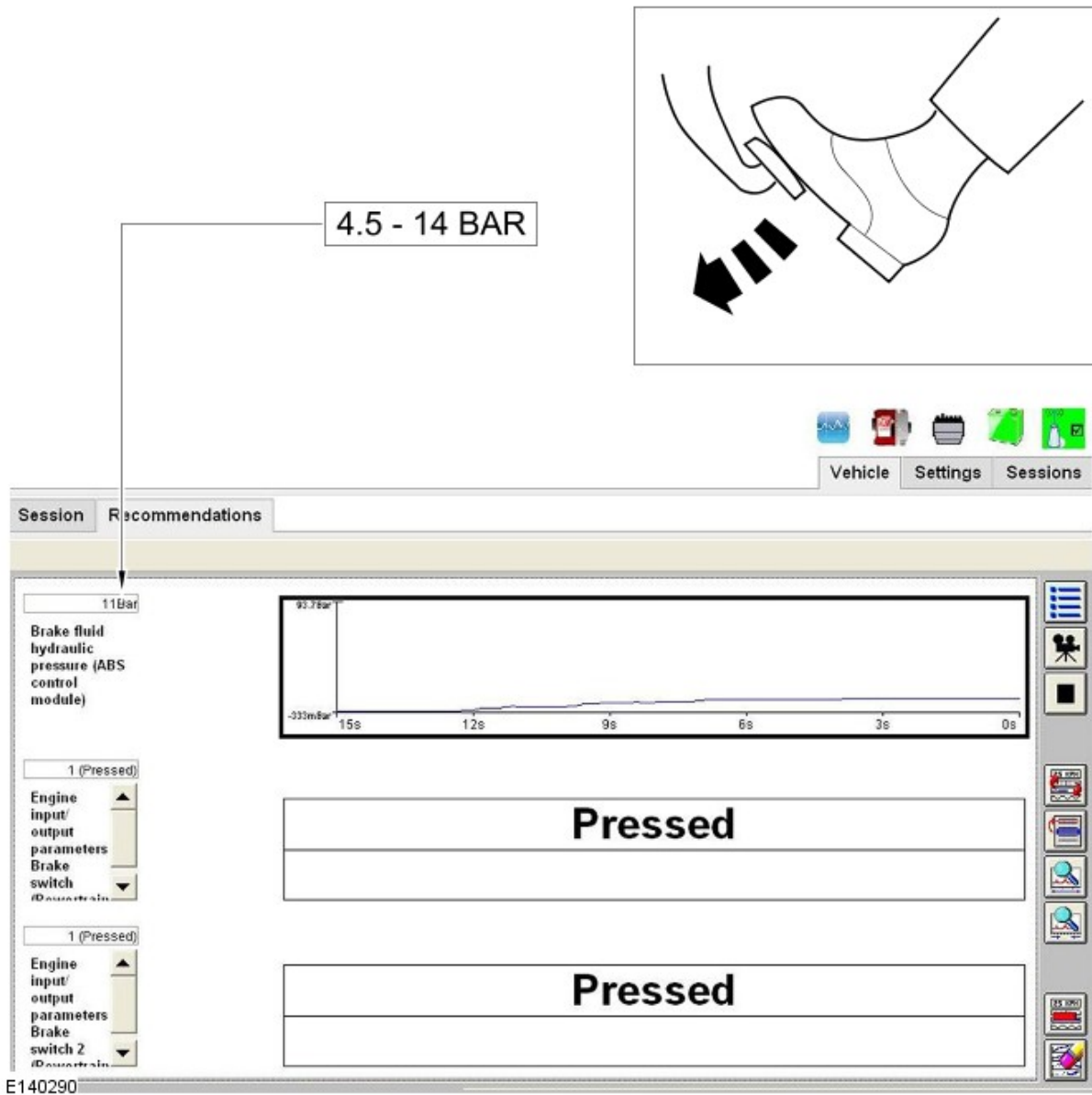
The screenshot displays the SDD (Service Diagnostic Display) interface, specifically the 'Recommendations' tab. The main display area features a graph titled 'Brake fluid hydraulic pressure (ABS control module)' showing a peak value of 1.480 MPa. Below the graph are two empty rectangular boxes for additional data. The left sidebar contains navigation menus for 'Engine input/output parameters' and 'Brake' systems. The bottom status bar indicates 'Engine input/output parameters - Brake switch'.

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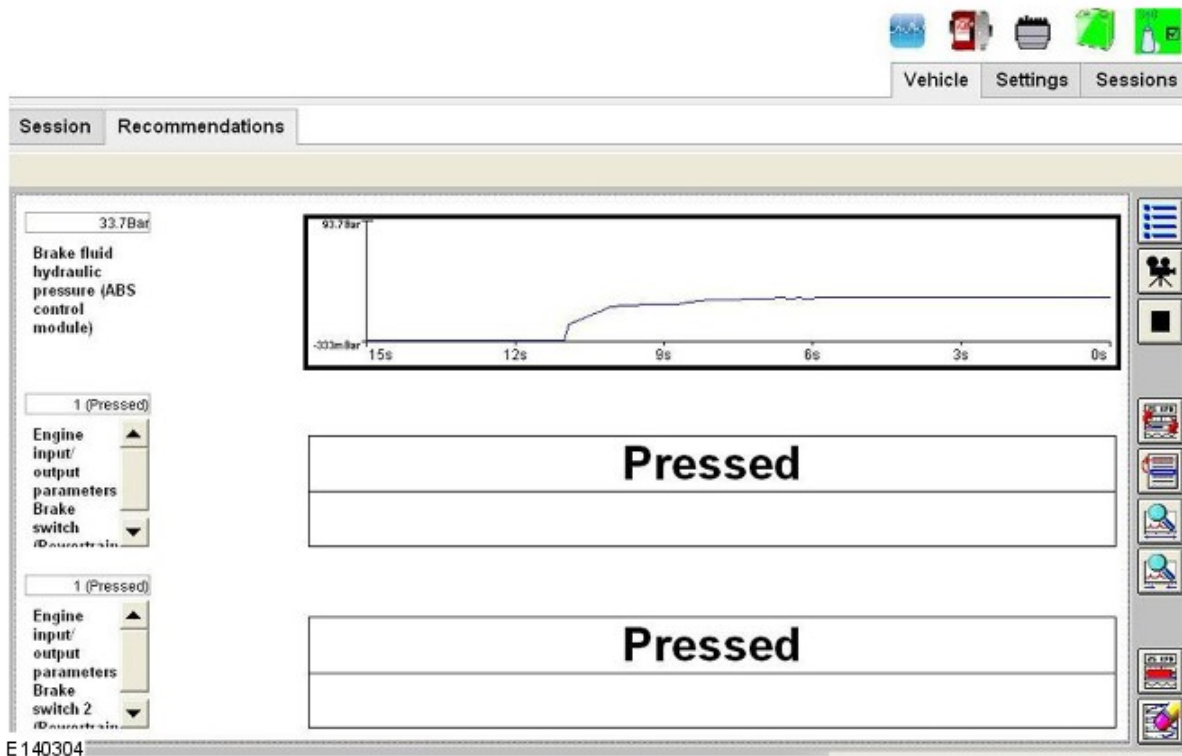
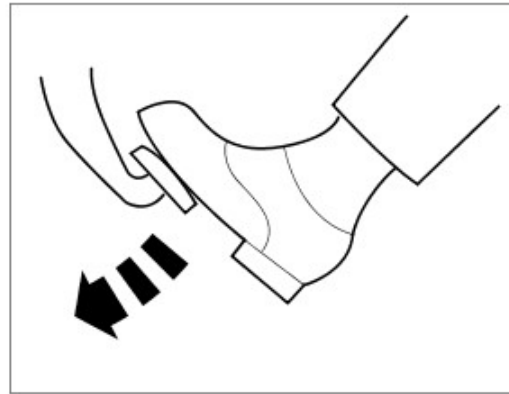
15. The next graph to change should be the cruise cancel switch.

- The brake pressure applied, shown in the top bar chart, should be between 4.5 and 14 BAR.



16. Last graph to move should be brake pressure.

- This reading will vary depending on whether the engine is running and foot pressure applied.



17. Switch the data logger off before disconnecting the SDD from the vehicle.

- If the results show that the brake pedal switch is working as expected do not replace the switch. It will be necessary to investigate the cause of the issue. Contact the Technical HelpLine for additional support if necessary.
- If the results show that the brake switch is not working correctly, remove the brake pedal switch and refit.
- Run the above tests again.
- If the results still show the brake switch is not working correctly the switch should be replaced.

18. Exit the current session.

19. Disconnect the IDS and the battery conditioner/power supply from the vehicle.