

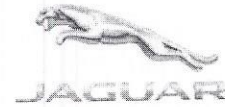
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JTB00380NAS6 - Inadequate A/C Performance | TOPIx

JTB00380NAS6

# TECHNICAL BULLETIN

21 AUG 2017



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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.

## INFORMATION

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

Changes are highlighted in blue

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### SECTION:

412-03: Air Conditioning

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### SUBJECT/CONCERN:

Inadequate A/C Performance

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### AFFECTED VEHICLE RANGE:

MODEL:	MODEL YEAR:	VIN:	ASSEMBLY PLANT:	APPLICABILITY:

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F-PACE (X761)	2017 Onwards	045409 Onwards	Solihull	
F-TYPE (X152)	2014 Onwards	K00103 Onwards	Castle Bromwich	
XE (X760)	2017 Onwards	921222 Onwards	Solihull	
XE (X760)	2017 Onwards	P10187 Onwards	Castle Bromwich	
XF (X260)	2016 Onwards	Y00461 Onwards	Castle Bromwich	
XF (X250)	2010-2015	R59504-U88785	Castle Bromwich	GTDi 2.0L Petrol/V6 S/C 3.0L Petrol /V8 N/A 5.0L Petrol/V8 S/C 5.0L Petrol
XJ Range (X351)	2010 Onwards	V00325 Onwards	Castle Bromwich	
XK Range (X150)	2010-2015	B32753-B56794	Castle Bromwich	

**MARKETS:**

NORTH AMERICA

**CONDITION SUMMARY:****SITUATION:**

One or more of the following may be evident:

- Vent temperatures cycle between warm and cold;
- Front and/or rear windshield and/or side windows mist over in ambient temperatures lower than 15°C/40°F;
- Poor Air Conditioning (A/C) system cooling performance; and/or
- Warm, damp, and/or musty odor from vents on start-up.

**CAUSE:**

<https://topix.jaguar.jlrext.com/topix/content/document/view?id=815027>

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This may be caused by the A/C compressor Direct Pressure Sensing (DPS) valve being worn or a faulty compressor clutch (if fitted).

**ACTION:**

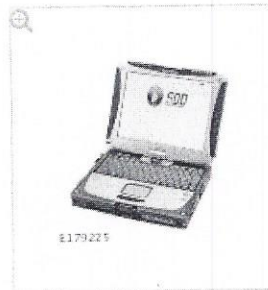
Should a customer express this concern, follow the Service Instruction outlined below.

**PARTS:**

PART NUMBER	DESCRIPTION	QUANTITY:
C2D42376	Compressor kit - XF (X250); XJ (X351; to VIN V58602); XK (X150; to VIN B52041)	1
C2D51357	Compressor kit - F-PACE (X761); F-TYPE (X152); XE (X760); XF (X260); XJ (X351; from VIN V58603); XK (X150; from VIN B52041)	1

**TOOLS:**

Jaguar Land Rover-approved  
Midtronics battery  
power supply



Jaguar Land Rover-approved  
diagnostic tool with  
latest SDD  
software,  
Calibration File



Jaguar Land Rover-approved  
diagnostic tool with  
latest PATHFINDER  
software

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**WARRANTY:****NOTE:**

The Direct Pressure Sensing (DPS) valve may also be referred to the Electronic Control Valve.

**NOTES:**

- 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.
- The JLR Claims Submission System 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
Direct Pressure Sensing (DPS) electronic control valve - Renew - F-PACE (X761; Ingenium I4 2.0L Diesel)	82.10.14	2.0	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - F-PACE (X761; V6 3.0L S/C Petrol)	82.10.14	1.2	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - F-TYPE (X152)	82.10.14	1.7	63	C2D51357
Direct Pressure Sensing (DPS) electronic control valve - Renew - XE (X760; Ingenium I4 2.0L Diesel)	82.10.14	2.4	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - XE (X760; GTDi 2.0L Petrol)	82.10.14	1.8	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - XE (X760; V6 3.0L S/C Petrol)	82.10.14	1.2	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - XF (X250; GTDi 2.0L Petrol)	82.10.14	2.0	63	C2D42376
Direct Pressure Sensing (DPS) electronic control valve - Renew - XF (X250; V6 3.0L S/C Petrol; RWD)	82.10.14	0.9	63	C2D42376
Direct Pressure Sensing (DPS) electronic control valve - Renew - XF (X250; V6 3.0L S/C Petrol; AWD)	82.10.14	0.9	63	C2D42376

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Carry out the Climate Control System - General Information - Diagnosis and Testing (see TOPIx Workshop Manual section 412-00: Climate Control System) and follow the 'Low pressure system pressure **too high** and high pressure system pressure **too low**' symptom test.

- If the fault is found, go to Step 2

2 Remove the air conditioning (A/C) compressor:

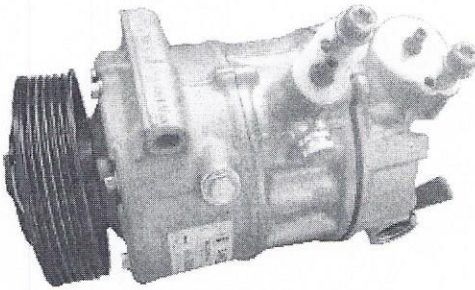
- XF (X250), XJ (X351), XK (X150): see TOPIx Workshop Manual section 412-03.
- F-PACE (X761), F-TYPE (X152), XE (X760), XF (X260): see TOPIx Workshop Manual section 412-01.

Replace the A/C compressor Direct Pressure Sensing (DPS) valve replacement procedure.

3

**NOTE:**

Make sure foreign materials do not enter the Direct Pressure Sensing (DPS) valve hole on the cylinder head when the DPS valve is removed.



E165840

Using compressed air or similar, remove all foreign materials from the DPS valve/cylinder head.

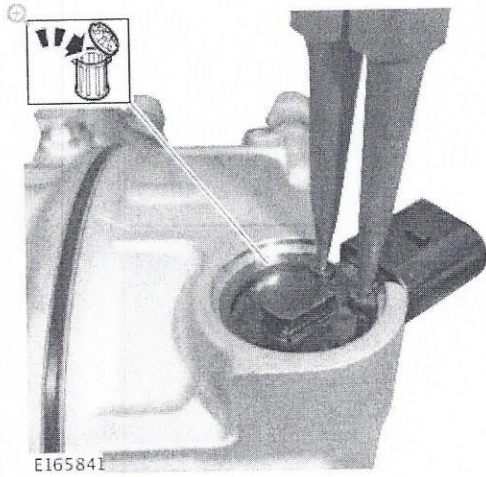
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**CAUTION:**

Make sure to not damage the circlip housing in the cylinder head.

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Place the A/C compressor on a clean flat work surface.

- Using a suitable tool, remove and discard the circlip that retains the DPS valve in the compressor cylinder head.

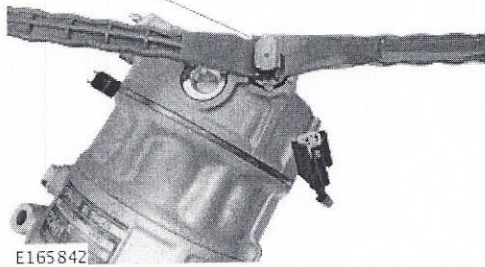
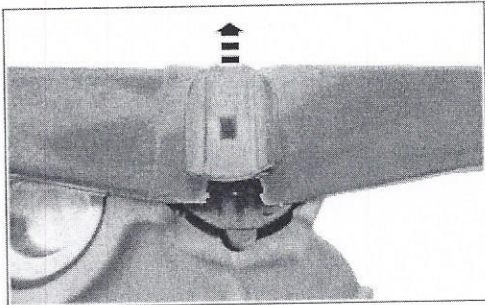
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**CAUTION:**

Make sure to not damage the housing in the cylinder head.

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Using suitable tools, release the DPS valve.

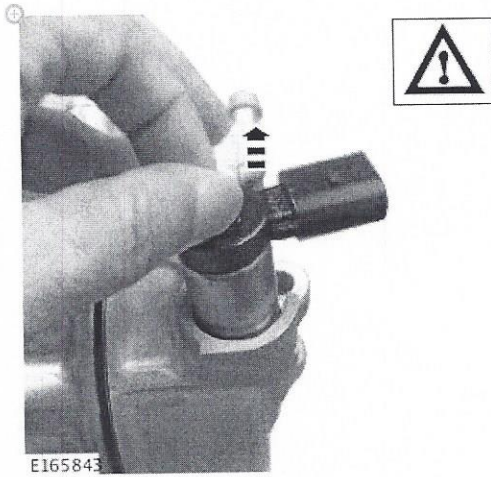
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**NOTE:**

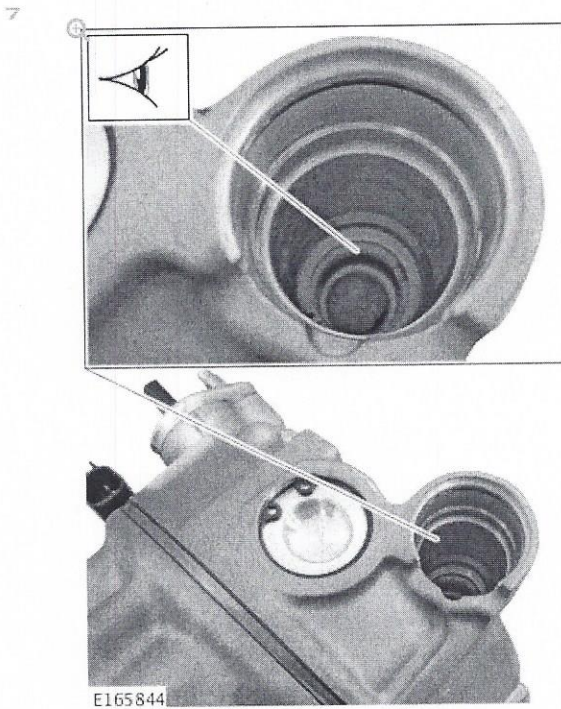
Use care to remove the DPS valve in a vertical direction to avoid damage to the inside wall of the cylinder head.

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Remove by hand the DPS valve from the A/C compressor cylinder head; discard the DPS valve.

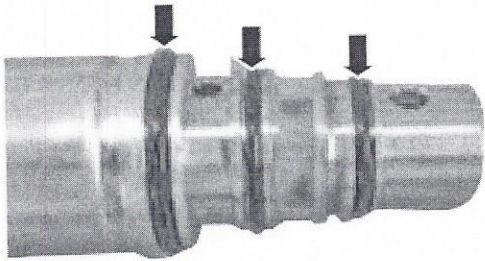
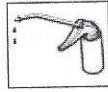


Inspect the inside wall of the cylinder head for scratches, scoring, or foreign material.



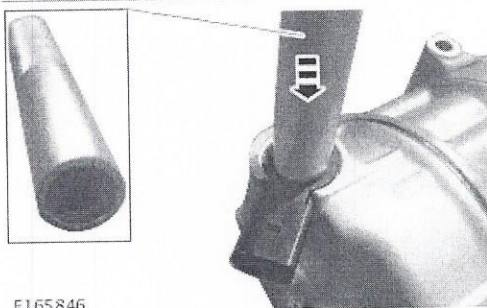
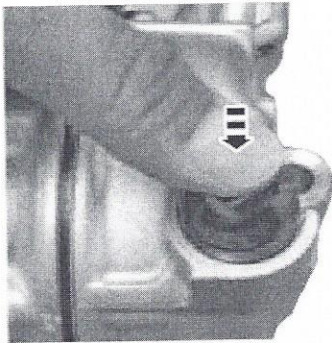
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Apply compressor oil (Polyalkylene Glycol [GPA] SPA2 Oil) to the O-rings of the new DPS valve.



E165846

Install the DPS valve:

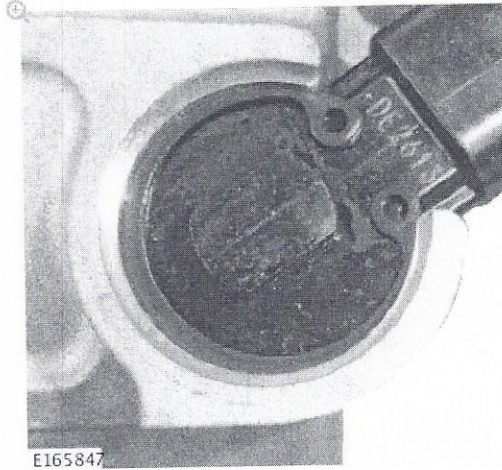
- Apply a downward pressure by hand.

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- If required, use a suitable tool to press fully into position to allow installation of the new circlip.

TO



Using a suitable tool, install the new circlip supplied in the kit.

11 Install the A/C compressor:

- XF (X250), XJ (X351), XK (X150): see TOPIx Workshop Manual section 412-03.
- F-PACE (X761), F-TYPE (X152), XE (X760), XF (X260): see TOPIX Workshop Manual section 412-01.