

TECHNICAL BULLETIN  
JTBO0380NAS3  
15 JUL 2016



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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.**

Changes are highlighted in gray

**SECTION: 412-00**

Inadequate A/C Performance

**AFFECTED VEHICLE RANGE:**

**F-PACE (X761)**

**Model Year:** 2017 Onwards  
**VIN:** 045409 Onwards  
**Assembly Plant:** Solihull

**F-TYPE (X152)**

**Model Year:** 2014 Onwards  
**VIN:** K00103 Onwards  
**Assembly Plant:** Castle Bromwich

**XE (X760)**

**Model Year:** 2017 Onwards  
**VIN:** 942528 Onwards  
**Assembly Plant:** Solihull

**XF (X250)**

**Model Year:** 2010-2015  
**VIN:** R59504-U88785  
**Assembly Plant:** Castle Bromwich

GTDi 2.0L Petrol/V6 S/C 3.0L Petrol /V8 5.0L Petrol/V8 S/C 5.0L Petrol

**XF (X260)**

**Model Year:** 2016 Onwards  
**VIN:** Y00461 Onwards  
**Assembly Plant:** Castle Bromwich

**XJ Range (X351)**

**Model Year:** 2010 Onwards  
**VIN:** V00325 Onwards  
**Assembly Plant:** Castle Bromwich

**XK Range (X150)**

**Model Year:** 2010-2015  
**VIN:** B32753-B56794  
**Assembly Plant:** Castle Bromwich

MARKETS:

NAS

**CONDITION SUMMARY:**

**Situation:** Inadequate air conditioning (A/C) performance may be experienced with the compressor clutch (where applicable) working properly.

**Cause:** This may be caused by the A/C compressor Direct Pressure Sensing (DPS) valve being worn.

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

**PARTS:**

C2D42376	Compressor kit - XF (X250); XJ (X351 - to VIN V58602); XK (X150 - to VIN B2041)	1
C2D51357	Compressor kit - F-PACE (X761); F-TYPE (X152); XE (X760); XF (X260); XJ (X351 - from VIN V58603); XK (X150 - from B52041)	1

**TOOLS:**

Refer to Workshop Manual for any required special tools.

**WARRANTY:**

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



**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
Direct Pressure Sensing (DPS) electronic control valve - Renew - F-PACE (X761 - Ingenium I4 2.0L Diesel)	<b>82.10.14</b>	2.0	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - F-PACE (X761 - 3.0L SC V6)	<b>82.10.14</b>	1.2	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - F-TYPE (X152)	<b>82.10.14</b>	1.7	63	C2D51357
Direct Pressure Sensing (DPS) electronic control valve - Renew - XE (X760 - Ingenium I4 2.0L Diesel)	<b>82.10.14</b>	2.4	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - XE (X760 - 2.0L GTDi)	<b>82.10.14</b>	1.8	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - XE (X760 - 3.0L SC V6)	<b>82.10.14</b>	1.2	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - XF (X250 - 2.0L GTDi)	<b>82.10.14</b>	2.0	63	C2D42376
Direct Pressure Sensing (DPS) electronic control valve - Renew - XF (X250 - 3.0L SC V6; RWD)	<b>82.10.14</b>	0.9	63	C2D42376
Direct Pressure Sensing (DPS) electronic control valve - Renew - XF (X250 - 3.0L SC V6; AWD)	<b>82.10.14</b>	0.9	63	C2D42376
Direct Pressure Sensing (DPS) electronic control valve - Renew - XF (X250 - 5.0L NA / SC V8)	<b>82.10.14</b>	0.8	63	C2D42376
Direct Pressure Sensing (DPS) electronic control valve - Renew - XF (X260 - Ingenium I4 2.0L Diesel)	<b>82.10.14</b>	2.2	63	C2D42377

Direct Pressure Sensing (DPS) electronic control valve - Renew - XF (X260 - 3.0L SC V6)	<b>82.10.14</b>	1.1	63	C2D42377
Direct Pressure Sensing (DPS) electronic control valve - Renew - XJ (X351 - 3.0L SC V6)	<b>82.10.14</b>	1.1	63	C2D42376
Direct Pressure Sensing (DPS) electronic control valve - Renew - XJ (X351 - 5.0L NA / SC V8)	<b>82.10.14</b>	1.1	63	C2D42376
Direct Pressure Sensing (DPS) electronic control valve - Renew - XJ (X351 - 3.0L SC V6)	<b>82.10.14</b>	1.1	63	C2D51357
Direct Pressure Sensing (DPS) electronic control valve - Renew - XJ (X351 - 5.0L NA / SC V8)	<b>82.10.14</b>	1.1	63	C2D51357
Direct Pressure Sensing (DPS) electronic control valve - Renew - XK (X150 - 5.0L NA / SC V8)	<b>82.10.14</b>	0.8	63	C2D42376
Direct Pressure Sensing (DPS) electronic control valve - Renew - XK (X150 - 5.0L NA / SC V8)	<b>82.10.14</b>	0.8	63	C2D51357



**NOTE: Normal Warranty procedures apply.**

### **SERVICE INSTRUCTION:**



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



**1. NOTE: XF (X250), XJ (X351), XK (X150) only.**

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.**

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

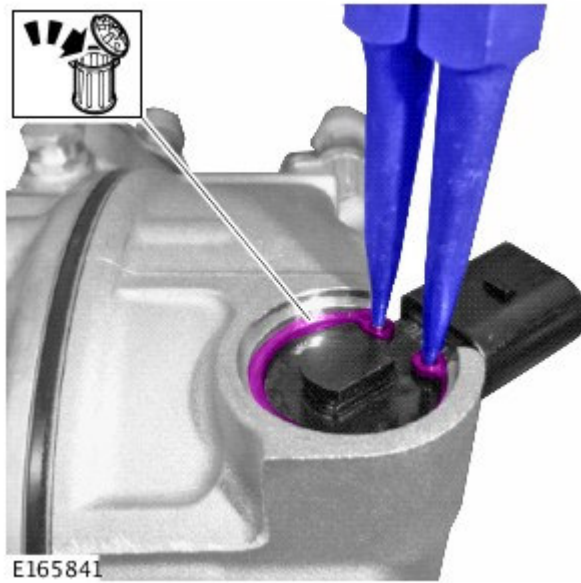


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4.  **CAUTION: Make sure to not damage the circlip housing in the cylinder head.**

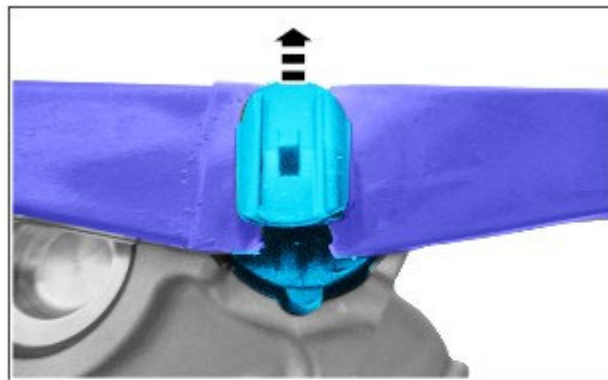
Place the A/C compressor on a clean flat work surface.


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



5.  **CAUTION: Make sure to not damage the housing in the cylinder head.**

Using suitable tools, release the DPS valve.



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

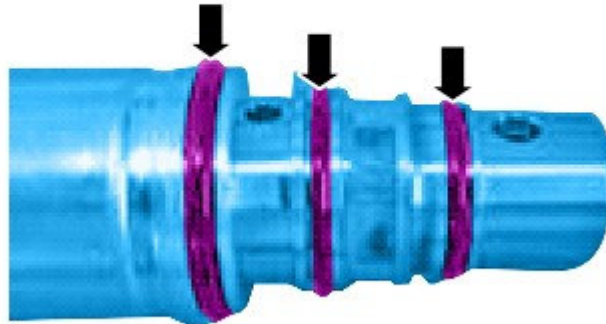
Remove by hand the DPS valve from the A/C compressor cylinder head; discard the DPS valve.



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



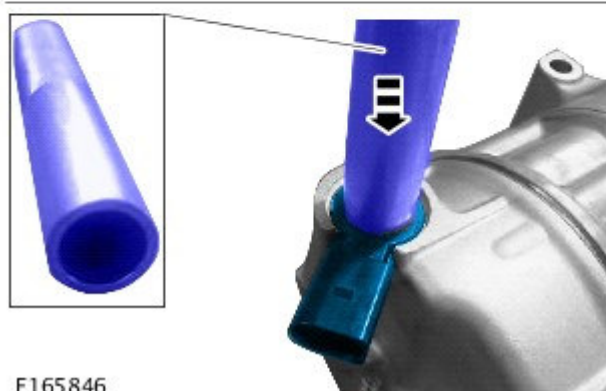
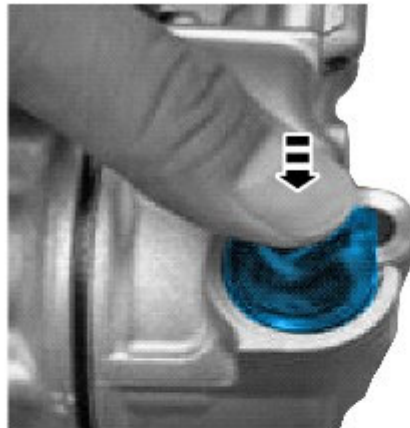
8. Apply compressor oil (Polyalkylene Glycol [GPA] SPA2 Oil) to the O-rings of the new DPS valve.



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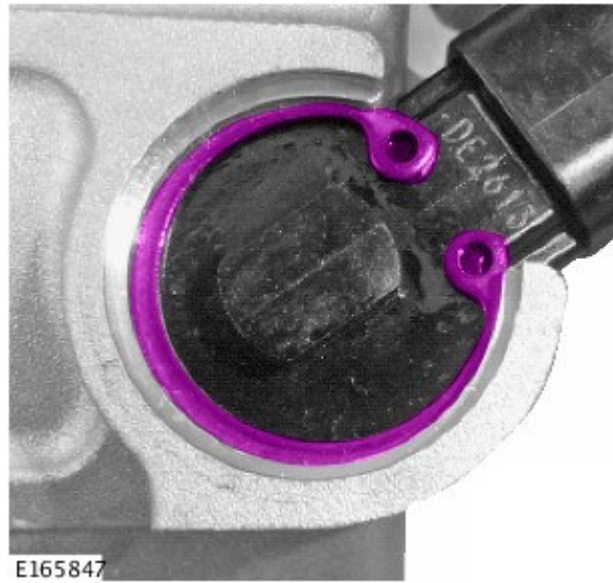
**9.** Install the DPS valve:

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



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- 10.** 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.