TECHNICAL BULLETIN
JTB00380NAS2
07 JAN 2015

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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: 412-01 / -03

Inadequate A/C Performance / Direct Pressure Sensing Valve Replacement

AFFECTED VEHICLE RANGE:

F-TYPE (X152)
Model Year: 2014 Onwards
VIN: K00103 Onwards

XF (X250)
Model Year: 2010 Onwards
VIN: R59504 Onwards

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

XJ Range (X351)
Model Year: 2010 Onwards
VIN: V00325 Onwards

XK Range (X150)
Model Year: 2010-2015
VIN: B32753-B56794

MARKETS:

NAS

CONDITION SUMMARY:

Situation: Inadequate A/C performance, low pressure recorded on the high pressure system, and/or high pressure recorded on the low pressure system may be exhibited 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:

C2D42377	Compressor / Direct Pressure Sensing (DPS) Valve kit - F-TYPE (X152)	Quantity: 1
C2D42376	Compressor / Direct Pressure Sensing (DPS) Valve kit - XF (X250)	Quantity: 1
C2D42376	Compressor / Direct Pressure Sensing (DPS) Valve kit - XJ (X351) - up to VIN V39426	Quantity: 1
C2D42377	Compressor / Direct Pressure Sensing (DPS) Valve kit - XJ (X351) - from VIN V39427	Quantity: 1
C2D42376	Compressor / Direct Pressure Sensing (DPS) Valve kit - XK (X150) - up to VIN B52040	Quantity: 1

C2D42377 Compressor / Direct Pressure Sensing (DPS) Valve kit - XK (X150) - from VIN B52041 Quantity: 1

TOOLS:

Refer to Workshop Manual for any required special tools.

WARRANTY:

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) Valve - Renew - F-TYPE (X152)	**82.10.14**	1.7	63	C2D42377
Direct Pressure Sensing (DPS) Valve - Renew - XF (X250) 2.0L GTDi	**82.10.14**	2.0	63	C2D42376
Direct Pressure Sensing (DPS) Valve - Renew - XF (X250) 3.0L SC V6	**82.10.14**	0.9	63	C2D42376
Direct Pressure Sensing (DPS) Valve - Renew - XF (X250) 5.0L NA / SC V8	**82.10.20**	0.8	63	C2D42376
Direct Pressure Sensing (DPS) Valve - Renew - XJ (X351) - up to VIN V39426	**82.10.20**	1.0	63	C2D42376
Direct Pressure Sensing (DPS) Valve - Renew - XJ (X351) - from VIN V39427	**82.10.20**	1.1	63	C2D42377
Direct Pressure Sensing (DPS) Valve - Renew - XK (X150) - up to VIN B52040	**82.10.20**	0.9	63	C2D42376
Direct Pressure Sensing (DPS) Valve - Renew - XK (X150) - from VIN B52041	**82.10.14**	0.9	63	C2D42377

NOTE: Normal Warranty procedures apply.

SERVICE INSTRUCTION:

NOTE: prior to carrying out the service instruction, carry out the Climate Control System - General Information - Diagnosis and Testing (see TOPIx Workshop Manual, section 412-00).

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

1. Remove the A/C compressor:

- F-TYPE (X152): see TOPIX Workshop Manual, section 412-01
- XF (X250), XJ (X351), XK (X150): see TOPIx Workshop Manual, section 412-03

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

2. **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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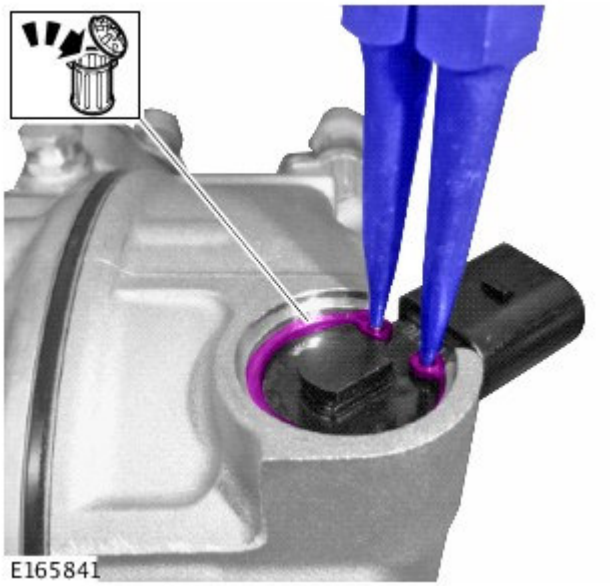
3. **CAUTION: make sure not to damage the circlip housing in the cylinder head.**

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.



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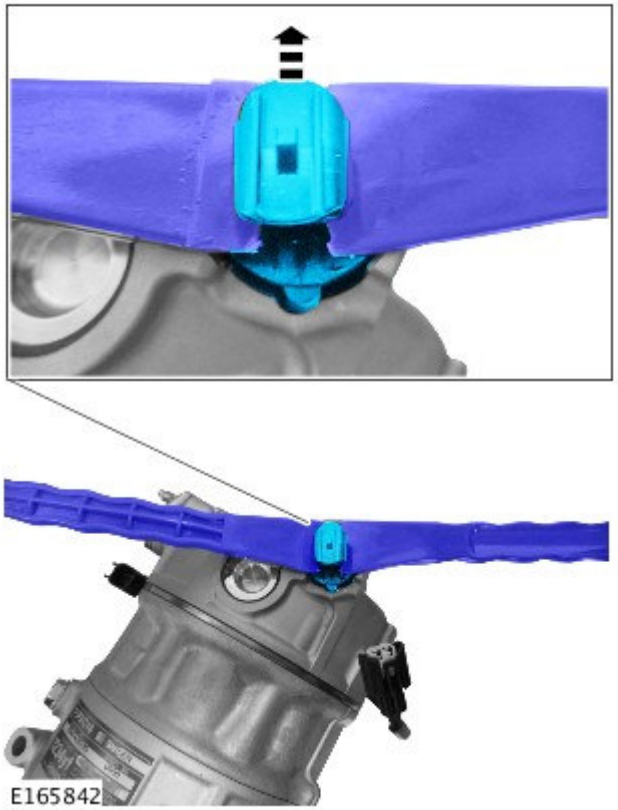
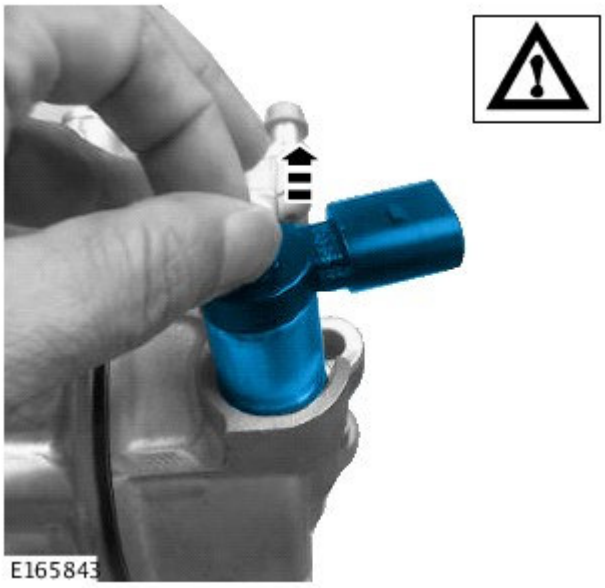
4. **CAUTION: make sure not to damage the housing in the cylinder head.**

Using suitable tools, release the DPS valve.



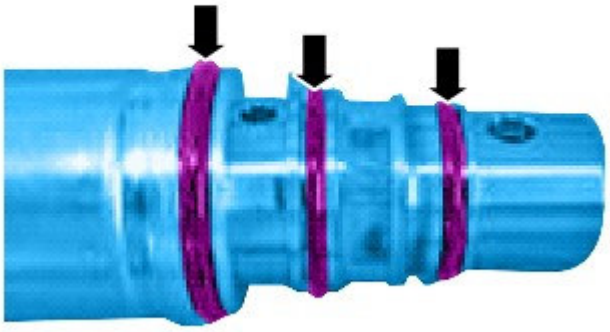
5. **NOTE: take care to remove the DPS valve in a vertical direction to avoid damage to the inside wall of the cylinder head.**

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



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

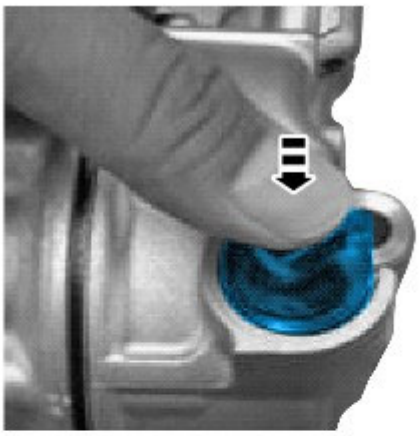
7. Apply compressor oil (Polyalkylene Glycol [GPA] SPA2 Oil) to the O-rings of the new DPS valve.

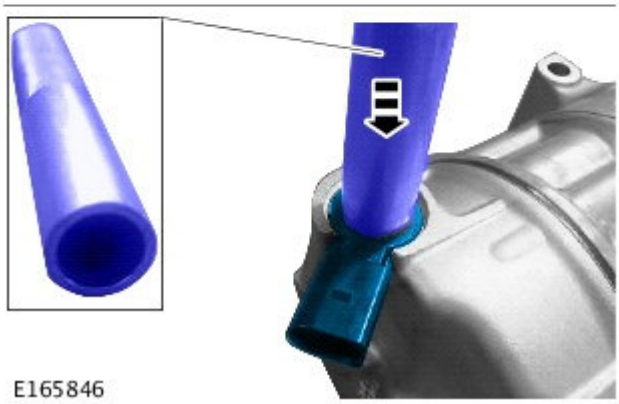


8. Install the DPS valve:

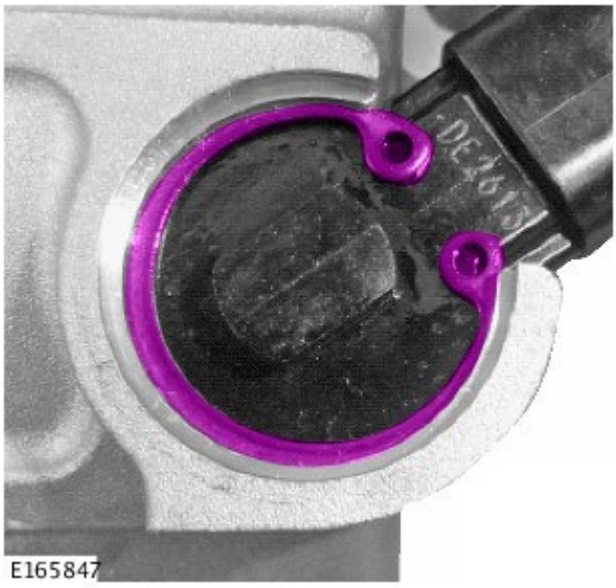
- Apply a downward pressure by hand.

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





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



10. Install the A/C compressor:

- F-TYPE (X152): see TOPIX Workshop Manual, section 412-01
- XF (X250), XJ (X351), XK (X150): see TOPIx Workshop Manual, section 412-03