



# Technical Bulletin

Model(s)	Year	Eng. Code	Trans. Code	VIN Range From	VIN Range To
Tiguan	2010-2013	All	All	All	All
Tiguan	2014	All	All	AX_EW000001 AX_EW500001	AX_EW057666 AX_EW554593

## Condition

**87 14 04** June 19, 2014 **2037095** Supersedes Technical Bulletin V871403 dated June 18, 2014 to update procedure due to double retainer coming with new coolant hose and not as an additional part.

**Air Conditioning Blows Warm, Compressor-Condenser Refrigerant Line**

## Technical Background

The air conditioning refrigerant line may come in contact with compressor pulley due to engine vibration.

In the air conditioning control unit the following entry is logged:

- B10ABF0 - refrigerant pressure - under lower limit

### Note

**Inspect refrigerant line between condenser and compressor. If line is not damaged or out of its retainer this technical bulletin does not apply. Further diagnosis is required.**

## Production Solution

**New refrigerant pipe, upper coolant hose and double clip.**

- WVGAV3AX3EW057666 (12<sup>th</sup> November 2013)
- WVGCE2AX7EW554593 (2<sup>nd</sup> December 2013)

# Technical Bulletin

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New refrigerant compressor/condenser hose 5N0 820 721H.



New coolant hose with double retainer refrigerant line holder 5N0 121 093L.

 **Note**

New coolant hose comes with new retainer 5N0 121 093L.

# Technical Bulletin

## Service

### Repair Procedure

- Evacuate the AC system. See repair group 87 Heating, Ventilation, and Air Conditioning in Elsa.
- Disconnect the compressor/condenser AC line from the condenser.
- Disconnect the compressor condenser AC line from the compressor and remove it from the vehicle.
- Support and lift the vehicle to remove noise dampener plate.



Figure 1

- Remove the radiator hose from the thermostat housing to drain the coolant (Figure 1).

 **Note**

**Disconnect only the clamp off the existing coolant temperature sensor housing. The housing pipe attached to the engine can stay connected.**

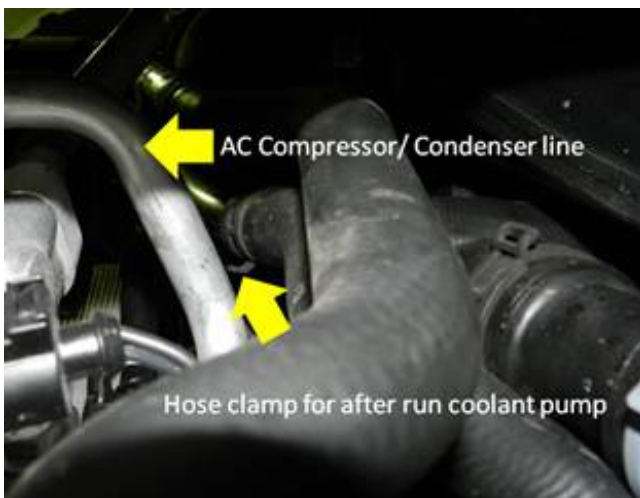


Figure 2

- Locate the after run coolant pump and turn the clamp  $\frac{1}{2}$  a turn from its original location away from the compressor/condenser line.

 **Note**

**The picture shown in Figure 2 shows the AC line installed to capture the potential contact area.**

# Technical Bulletin

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Figure 3

 **Tip:**

New location of the after run coolant pump hose clamp (Figure 3).



Figure 4

- Lower the vehicle and remove the radiator hose (and the original double retainer if equipped) from the radiator and remove it from the vehicle (Figure 4).

# Technical Bulletin

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Figure 5

- Remove the original plastic radiator hose retainer from the radiator and discard it. (Figure 5).

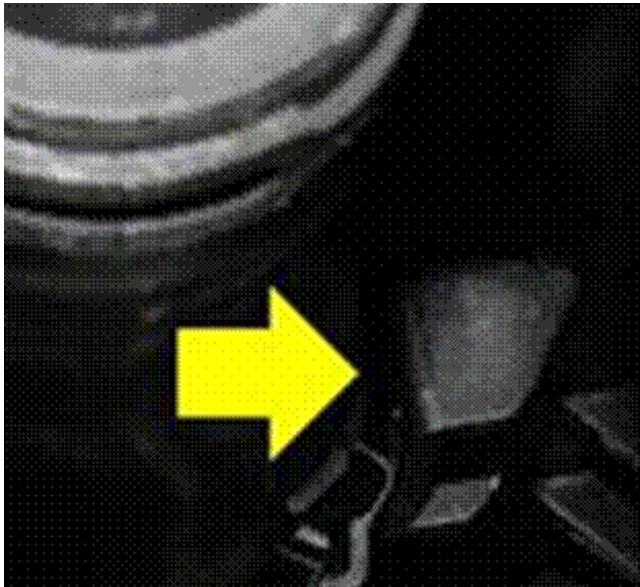


Figure 6

- Install the upper portion of new coolant hose 5N0 121 051M to the radiator and press the barbed end of the new retainer clip into the hole in place of the old retainer (Figure 6).

# Technical Bulletin

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Figure 7

- Install new refrigerant line 5N0820721H according to the repair manual.
- Secure the compressor bolt to 22Nm and condenser bolt to 12Nm (Figure 7).



Figure 8

- Secure retainer on the new AC hose as shown in Figure 8.

# Technical Bulletin

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**Figure 9**

- Raise vehicle and attach the thermostat end of the coolant hose and secure the clamp. Refill the engine coolant (Figure 9).

- Recharge AC system according the specification label on the front core support. See repair group 87 Heating, Ventilation, and Air Conditioning in Elsa.
- Check the ribbed serpentine belt for damage. If necessary replace the ribbed serpentine belt according to the repair manual.





# Technical Bulletin

## Warranty

To determine if this procedure is covered under Warranty, always refer to the Warranty Policies and Procedures Manual <sup>1)</sup>					
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Tiguan	2010-2013	All	All	All	All
Tiguan	2014	All	All	AX_EW000001 AX_EW500001	AX_EW057666 AX_EW554593
<b>SAGA Coding</b>					
Claim Type:			Use applicable Claim Type <sup>1)</sup>		
Service Number:	Damage Code	HST		Damage Location (Depends on Service No.)	
8743	0010	---		Use applicable when indicated in Elsa (L/R)	
Parts Manufacturer		Model Names		PU3 <sup>2)</sup>	
Labor Operation <sup>3)</sup> : Coolant Drain and Fill			19381700 = 50 TU		
Labor Operation <sup>3)</sup> : Remove and Install Compressor/Condenser Pipe. Includes: Check ribbed serpentine belt.			87431950 = 50 TU		
Labor Operation <sup>3)</sup> : Remove and Install Upper Coolant Hose (additional time provided to replace coolant hose at time of A/C compressor/condenser line replacement).			19621999 = 20 TU		
Labor Operation <sup>3)</sup> : Drain and refill refrigerant.			87031700 = 50 TU		
Causal Part: AC Compressor/Condenser Line			5N0820721H		
<b>Diagnostic Time <sup>4)</sup></b>					





# Technical Bulletin

GFF Time expenditure	01500000 = 30 TU max.	YES
Road Test	01210002 = 00 TU 01210004 = 00 TU	NO
Technical Diagnosis	01320000 = 00 TU max.	NO
Claim Comment: Input "As per Technical Bulletin 2037095" in comment section of Warranty Claim.		
1) Vehicle may be outside any Warranty in which case this Technical Bulletin is informational only 2) Code per warranty vendor code policy. 3) Labor Time Units (TUs) are subject to change with ELSA updates. 4) Documentation required per Warranty Policies and Procedures Manual.		

## Required Parts and Tools

Description	Part No:	Quantity
AC Compressor/Condenser Line	5N0820721H	1
Coolant Hose	5N0121051M	1

No Special Tools required.

## Additional Information

All part and service references provided in this Technical Bulletin are subject to change and/or removal. Always check with your Parts Dept. and Repair Manuals for the latest information.