

**18-2314**17 October  
2018**TECHNICAL SERVICE BULLETIN****1.6L - Lack Of Cooling - Broken Air Conditioning (A/C) Inlet Line - Replacement And Support Clip Installation****Model:**

|                                 |
|---------------------------------|
| <b>Ford</b><br>2013-2016 Escape |
|---------------------------------|

**Issue:** Some 2013-2016 Escape vehicles equipped with a 1.6L EcoBoost engine may exhibit a lack of cooling caused by the A/C inlet line breaking at the compressor. This may be due to the oil cooler coolant lines exerting excess pressure on the A/C inlet line. When replacing the A/C inlet line, a support clip for the oil cooler coolant line should be installed to prevent contacting the A/C inlet line.

**Action:** Follow the Service Procedure to correct the condition.

**Parts**

| Part Number    | Description                                     | Quantity |
|----------------|---|----------|
| CV6Z-19D742-E  | A/C Suction Line                                | 1        |
| JU5Z-14A163-MA | Zip Tie Retainer Clip                           | 1        |
| YN-12-D        | Motorcraft® PAG Refrigerant Compressor Oil      | 1        |
| YN-19          | Motorcraft® R134a Refrigerant                   | 1        |
| FC3Z-19C836-A  | Receiver Drier Element                          | 1        |
| 164-R4904      | Rotunda Ultra High Molecular Weight (UHMW) Tape | 1        |
| 164-R9402      | Rotunda Urethane Tape                           | 1        |

**Labor Times**

| Description  | Operation No. | Time     |
|--|---------------|----------|
| 2013-2016 Escape 1.6L: Inspect, Replace And Secure The A/C Inlet Line Following The Service Procedure Includes Time To Replace The Receiver Drier Element (Do Not Use With Any Other Labor Operations) | 182314A       | 2.5 Hrs. |

**Repair/Claim Coding**

|                 |        |
|-----------------|--------|
| Causal Part:    | 19D742 |
| Condition Code: | 01     |

**Tool List**

| Drive | Tool Name           |
|-------|---------------------|
| 1/4"  | Power Tool          |
| 1/4"  | Ratchet             |
| 1/4"  | Torque Wrench       |
| 1/4"  | 7 mm Socket         |
| 1/4"  | 10 mm Socket        |
| 1/4"  | 10 mm Swivel Socket |
| 1/4"  | 10" Extension       |
| 3/8"  | Power Tool          |

| Drive | Tool Name            |
|-------|----------------------|
| 3/8"  | Ratchet              |
| 3/8"  | Torque Wrench        |
| 3/8"  | 13 mm Socket         |
| 3/8"  | Torx® T27            |
| 3/8"  | 8" Extension         |
|       | 10 mm Ratchet Wrench |
|       | Knife                |
|       | Metal Trim Tool      |
|       | Plastic Trim Tool    |
|       | Snap Ring Pliers     |
|       | Pick Tool            |

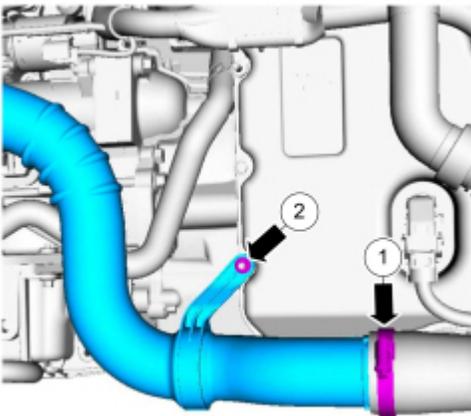
## Service Procedure

### 1. Is the A/C inlet line broken at the compressor connection?

- (1). Yes - replace the A/C inlet line. Refer to Workshop Manual (WSM), Section 412-00. Do not install the underbody shield and retainers at this time.
- (2). No - this article does not apply. Refer to WSM, Section 412-00 for normal diagnostics.

### 2. Loosen the clamp, remove the nut and decouple the charge air cooler (CAC) outlet pipe connection. (Figure 1)

Figure 1



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### 3. Install the zip tie retainer clip to reposition the oil cooler coolant hoses.

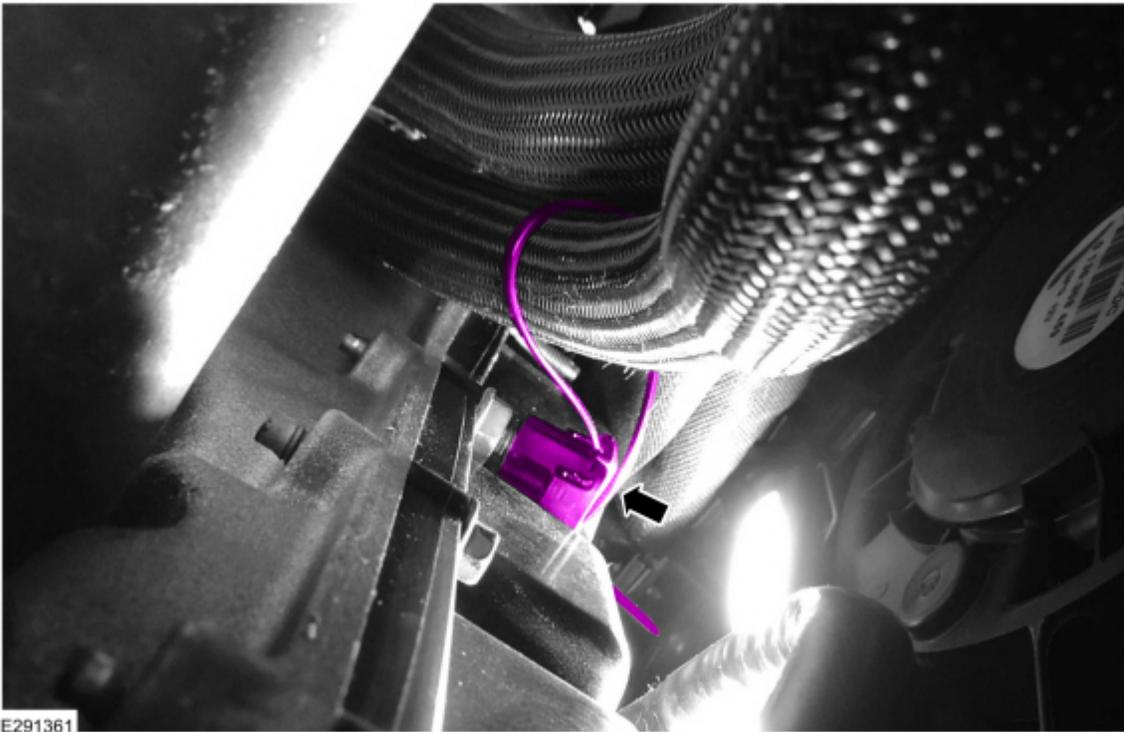
- (1). Install a zip tie into the retainer clip. (Figure 2)
- (2). Loosely install the zip tie retainer onto the oil cooler coolant hose. Slide the retainer up the coolant hose and insert the retainer clip onto the transmission oil pan stud above the CAC hose. (Figure 3)
- (3). Position the coolant hoses so that there is a 1.25 in (32 mm) distance between the A/C inlet line and the lowest point of the coolant hoses and tighten the zip tie to hold the hoses in place. (Figure 4)
  - Make sure when repositioning the coolant hoses that they are not kinked or restricted in any way.

Figure 2



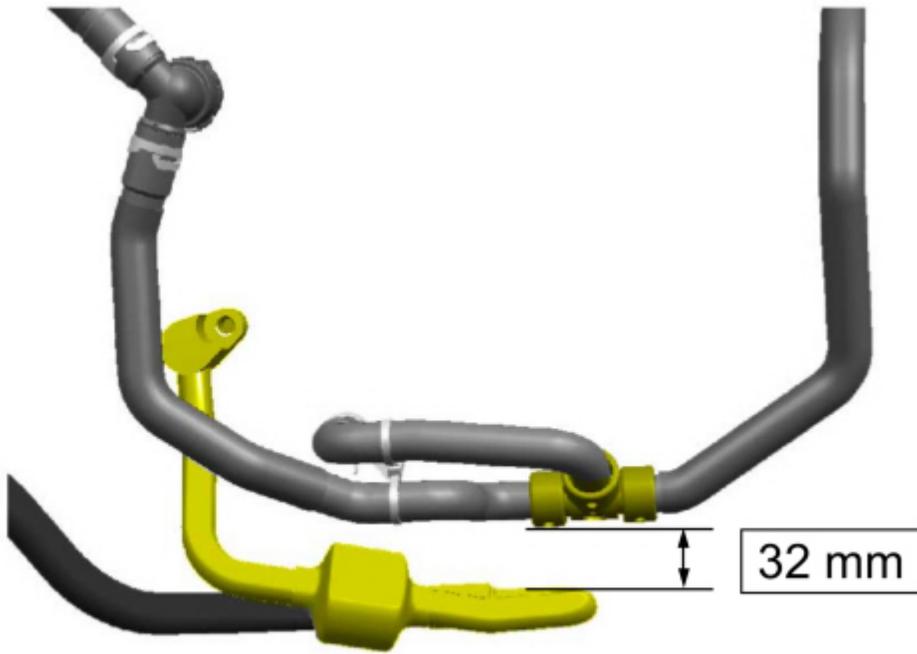
E291360

Figure 3



E291361

Figure 4



E293011

4. Cut a 3-inch strip of urethane tape and install the tape onto the CAC outlet pipe where it contacts the oil cooler coolant hoses. (Figures 5 - 6)

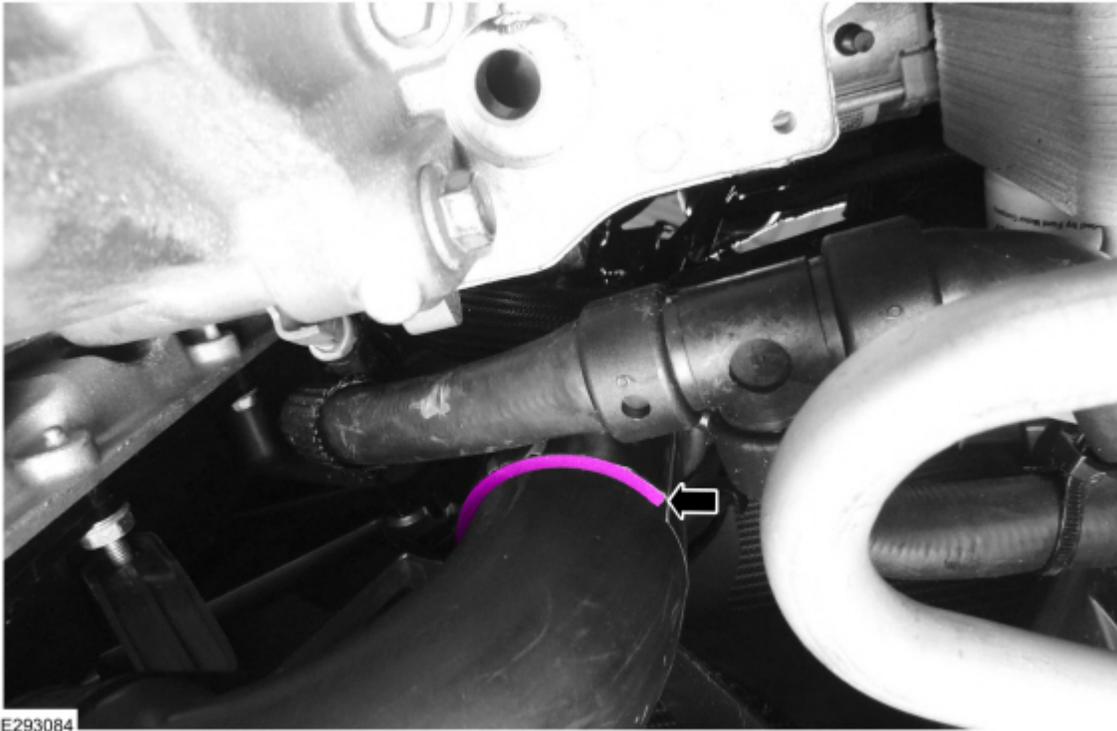
Figure 5



E291362

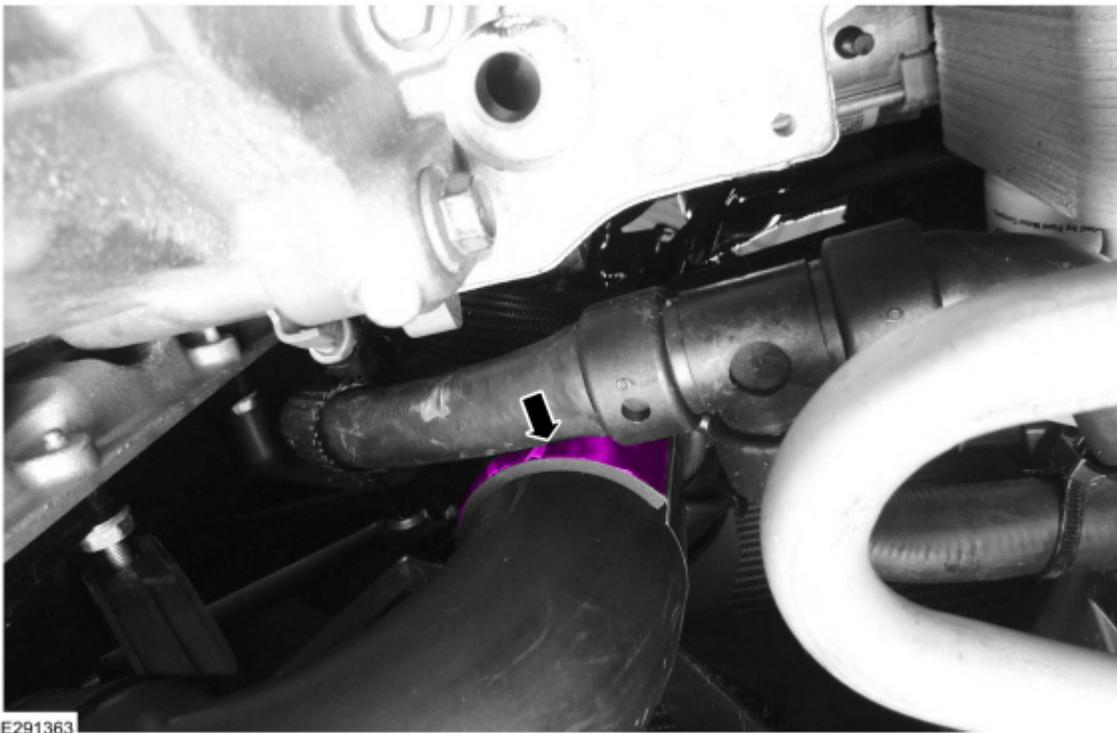
| Item           | Description   |
|----------------|---------------|
| Top (Black)    | Urethane tape |
| Bottom (White) | UHMV tape     |

Figure 6



5. Install a piece of Ultra High Molecular Weight (UHMW) tape over the urethane tape to act a secondary adhesion layer. (Figure 7)

Figure 7



6. Install the CAC outlet pipe and nut, then tighten the clamp. (Figure 1)
7. Replace the A/C receiver drier element. Refer to WSM, Section 412-00.
8. Install the underbody shield and retainers. Refer to WSM, Section 412-00.
9. Recharge the A/C system. Refer to WSM, Section 412-00.

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