

## SERVICE PROCEDURE

REFERENCE: FSA 202504

DATE: 25.03.2025

SUBJECT: Fuel Line Hose Puncture

FSA TYPE: Customer Notification

### Introduction:

In vehicles with 12.7L engines from the 2025 model year, fuel hoses at risk of damage due to contact with the crankcase ventilation module (CCV) will be secured with a C-Clip Strap according to the following 'Service Application' procedure. Additionally, the following vehicle variants should also have a strap applied between the air compressor and the fuel hose.

### Service Application:

#### Recipe Labor: Fuel Pipe (Fuel Pump to Filter) Gaf Addition

Valid for each repair:

	Labour Code	Labour Name	Time (hr)
Sub-Labors	F4V25 9B273GAF	Fuel Pipe (Fuel Pump to Filter) Gaf Addition	0,3
	F2V86 CABTILT	Cab Tilting	0,1

#### Recipe Labor: Fuel Pipe (Fuel Pump to Filter) R/I

Used in case of pipe replacement:

	Labour Code	Labour Name	Time (hr)
Sub-Labors	F4V25 9B273	Fuel Pipe (Fuel Pump to Filter) R/I	0,1
	F4V25 9B273GAF	Fuel Pipe (Fuel Pump to Filter) Gaf Addition	0,3
	F2V86 CABTILT	Cab Tilting	0,1

### Note:

- If both of the labors are being used, total labor hours add up to 0,5 hours since both F4V25 9B273 and F4V25 9B273GAF include cab tilting.
- Both recipes can be obtained via 9B273 base numbered part related labors in the EWNG Labor System

**Note:** If both of the labors are being used, total labor hours add up to 0,5 hours since both F4V25 9B273 and F4V25 9B273GAF include cab tilting.

### Part List :

#### For Dual Piston Air Compressor Engines:

Part No	Part Name	Quantity
MC46-14197-AA	C-Clip Strap	2
8C46-2D218-AA	Strap - 290X4.8	1
4C46-2254-BA	Armor Brake Pipe	0.025
*GC46-9B273-AF	Plastic Fuel Hose	1

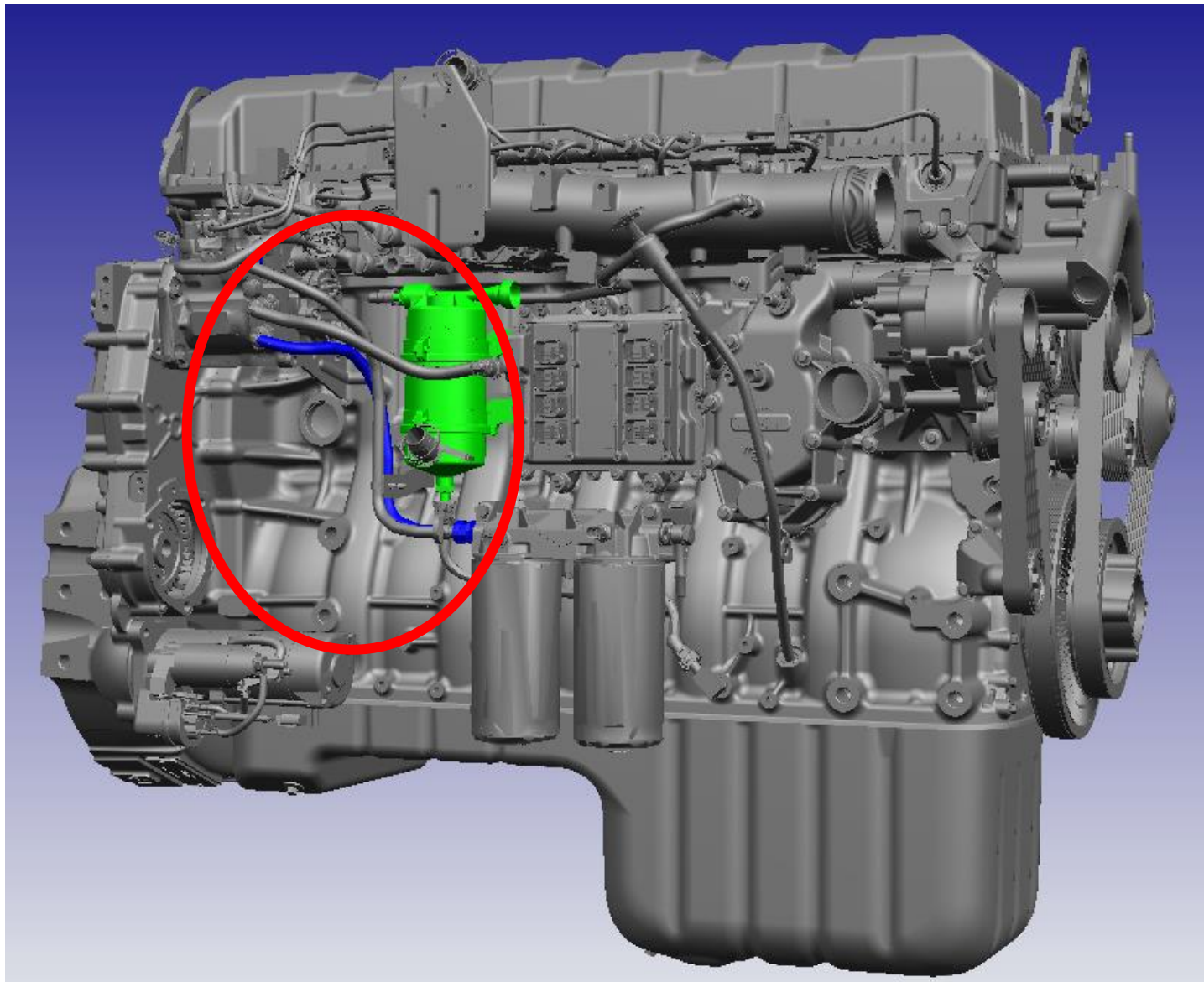
#### Single Piston Air Compressor Engines:

Part No	Part Name	Quantity
MC46-14197-AA	C-Clip Strap	1
8C24-2D218-AA	Strap - 290X4.8	1
4C46-2254-BA	Armor Brake Pipe	0.015
*GC46-9B273-AF	Plastic Fuel Hose	1

**Note \* :** In cases where the fuel pipe needs to be replaced, please submit a warranty claim with proof photos. The parts and labor to be used in this situation are specified in the bulletin.

## **1. Fuel Line Check**

First, ensure the necessary check for the relevant GC46-9B273-AF plastic fuel hose



**Figure 1 – Area and relevant hose for fuel line check**

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For the areas specified below, strip the protective cover on the fuel hose. Check if there is any damage in the relevant areas

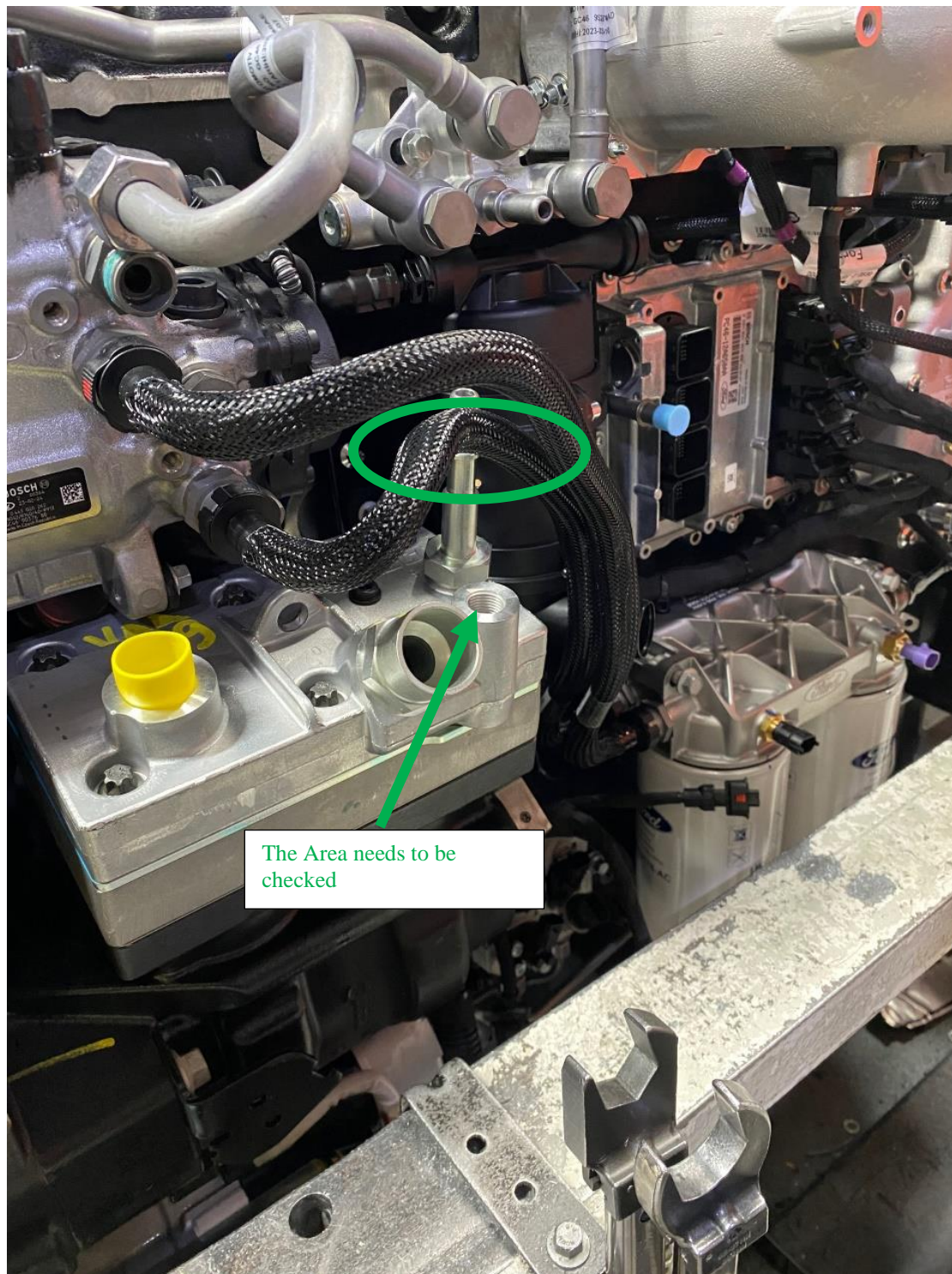


Figure 2 – Area and relevant hose for fuel line check



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For the areas specified below, strip the protective cover on the fuel hose. Check if there is any damage in the relevant areas



**Figure 3 – Area and relevant hose for fuel line check**

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If there is **damage/impact/deformation** similar to the photos below in the relevant areas, **REPLACE THE HOSE.**

You should measure the damage area. **IF THERE IS A REDUCTION OF MORE THAN 0.3 MM** in the wall thickness, it should be changed.

**YOU SHOULD TAKE A PICTURE OF BOTH THE DAMAGE AREA AND THE MEASUREMENT RESULT WITH A CALIPER. INSERT THE PICTURE INTO THE FSA DOCUMENT.**

If there is no similar damage/impact/deformation, **DO NOT REPLACE** the relevant HOSE



Figure 4 – Damage Photos

## 2. CCV – Fuel Hose Connection

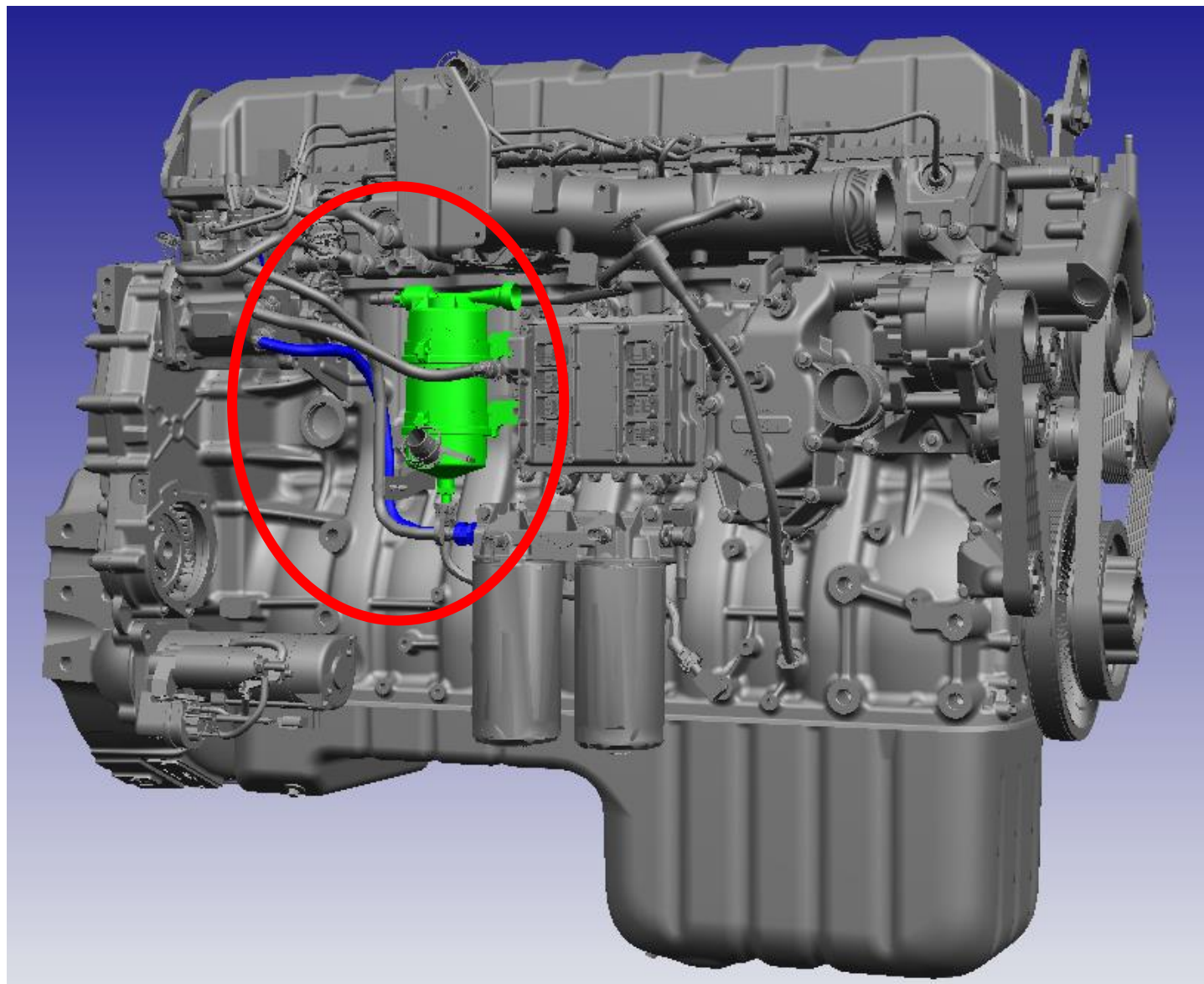


Figure 5 – Area of Repair Action on Engine



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### I. C-CLIP STRAP APPLICATION



Figure 6 – C-Clip Strap (MC46-14197-AA) to be used in repair

Apply the C-strap to the area circled in red in the photo below. How to apply the relevant application is found in the continuation of the TSB bulletin. Please follow the TSB.

**PLEASE AVOID ANY SHARP EDGES WHICH CAN DAMAGE SURROUNDING COMPONENTS AND HOSES!**

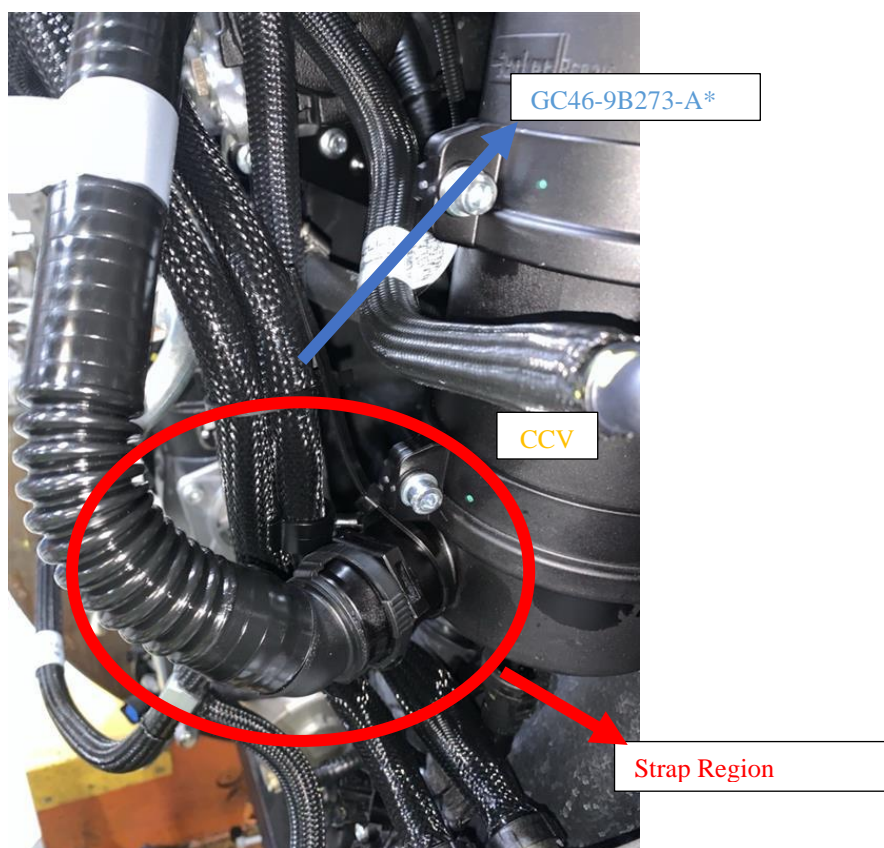


Figure 7 – Strap Region

## SERVICE PROCEDURE

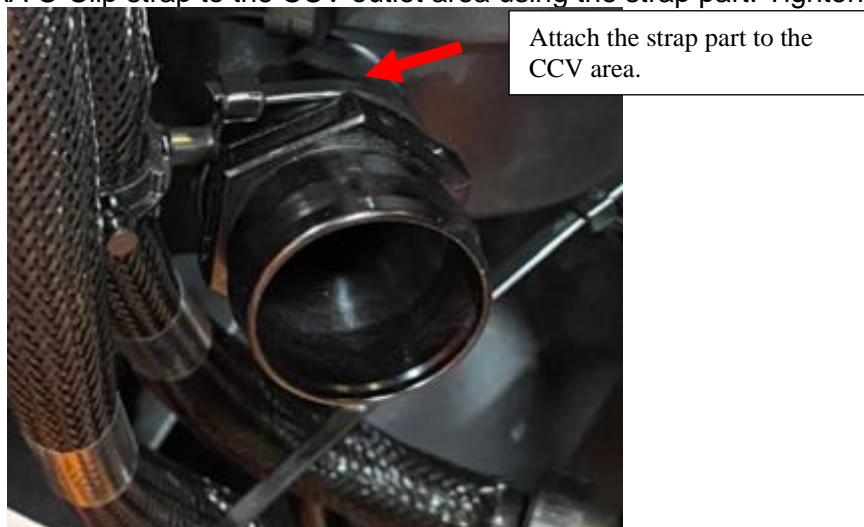
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- a) Attach the MC46-14197-AA C-Clip strap to the CCV outlet area using the strap part. Tighten the strap.



**Figure 8 – CCV Strap Connection**

- b) Secure the fuel hose GC46-9B273-A\* with the C-Clip part of the MC46-14197-AA C-Clip strap



**Figure 9 – C-Clip - GC46-9B273-A\* Connection**



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## II. GAF ADDITION PROCESS



Figure 10 – GAF Part – 4C46-2254-BA – needs to be 15 cm long

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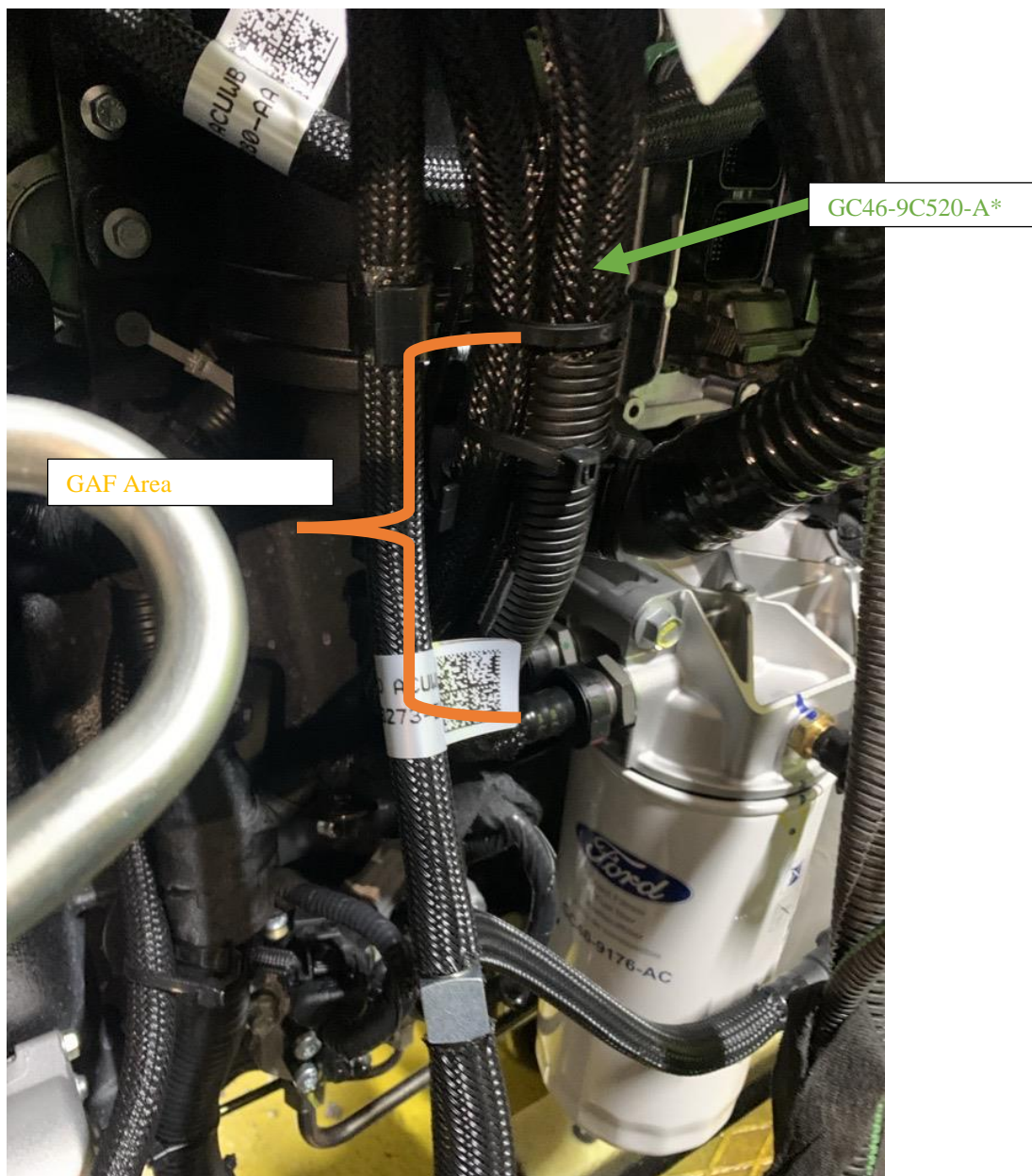


Figure 11 – GAF Bölgesi – GC46-9C520-AF

- a) First, a 15 cm long GAF should be cut. Then, it should be wrapped around the GC46-9C520-AF at the section corresponding to the CCV. The visual representation is provided in Figure 7.

### III. PIPE CONNECTION WITH FLAT STRAP

- a) Take a flat strap. Part number 8C46-2D218-AA or any flat/regular strap is suitable. Secure the GC46-9B273-A\* and GC46-9C520-A\* pipes tightly together with the strap.

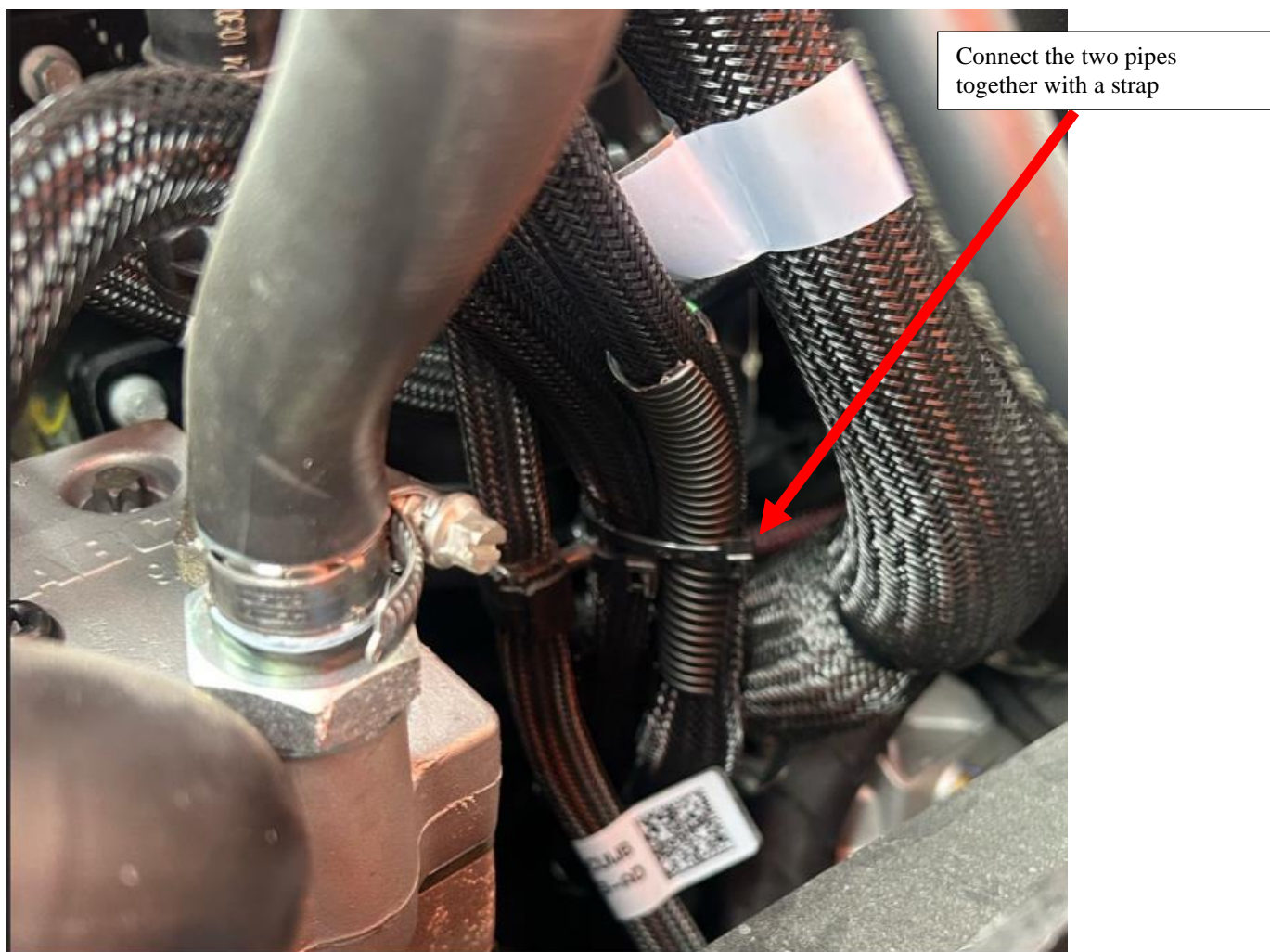


Figure 12 – Flat / Regular Strap – GC46-9B273-A\* & GC46-9C520-A\* Connection

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### 3. Air Compressor – Fuel Hose

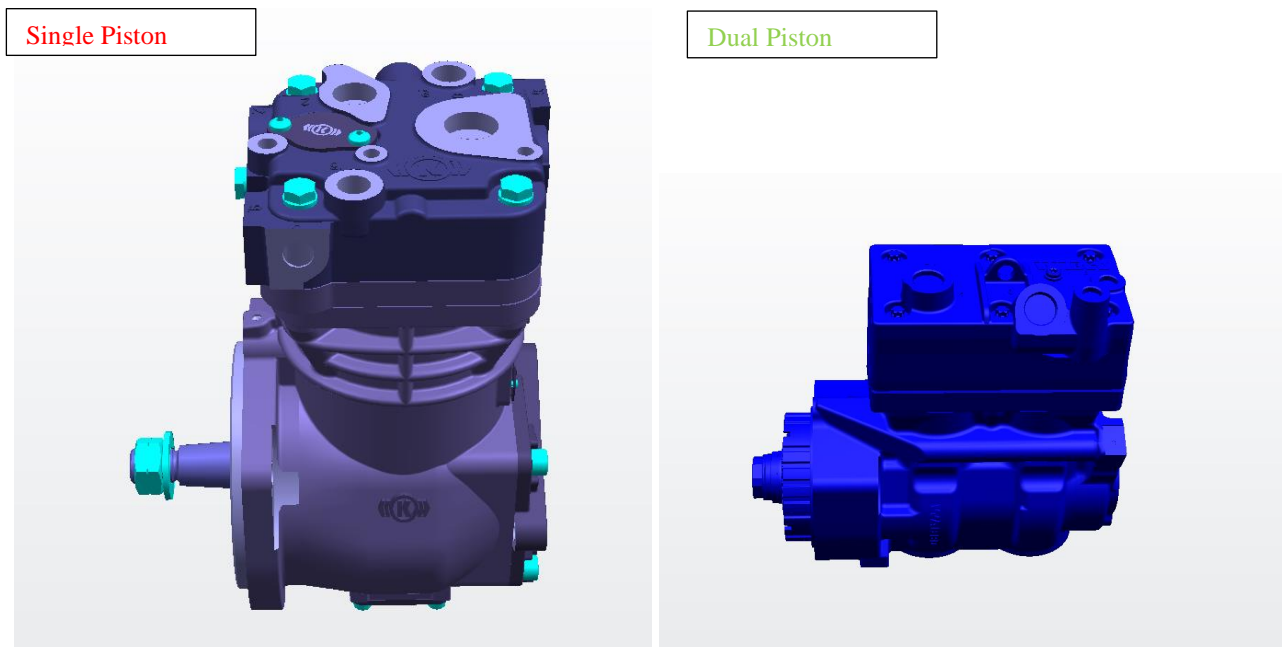


Figure 13 – Air compressor, single piston – dual piston.

This change is specific to the following vehicle variants with a double piston air compressor (GC46-2875-A\*)

#### Vehicle Variants:

##### H476:

- 26XXT 6x2 Full Trailer w/ C6AS
- 6x4 Tractor
- 35XX 6x4 Tipper
- 41XXD 8x4 Tipper
- 35XXP 6x4 Concrete Pump
- 41XXP 8x4 Concrete Pump 5100W/B
- 4110XP 8x4 Concrete Pump 6000W/B

##### H566:

- 18XXT 4x2 Tractor

##### H625:

- 18XXT 4x2 Tractor

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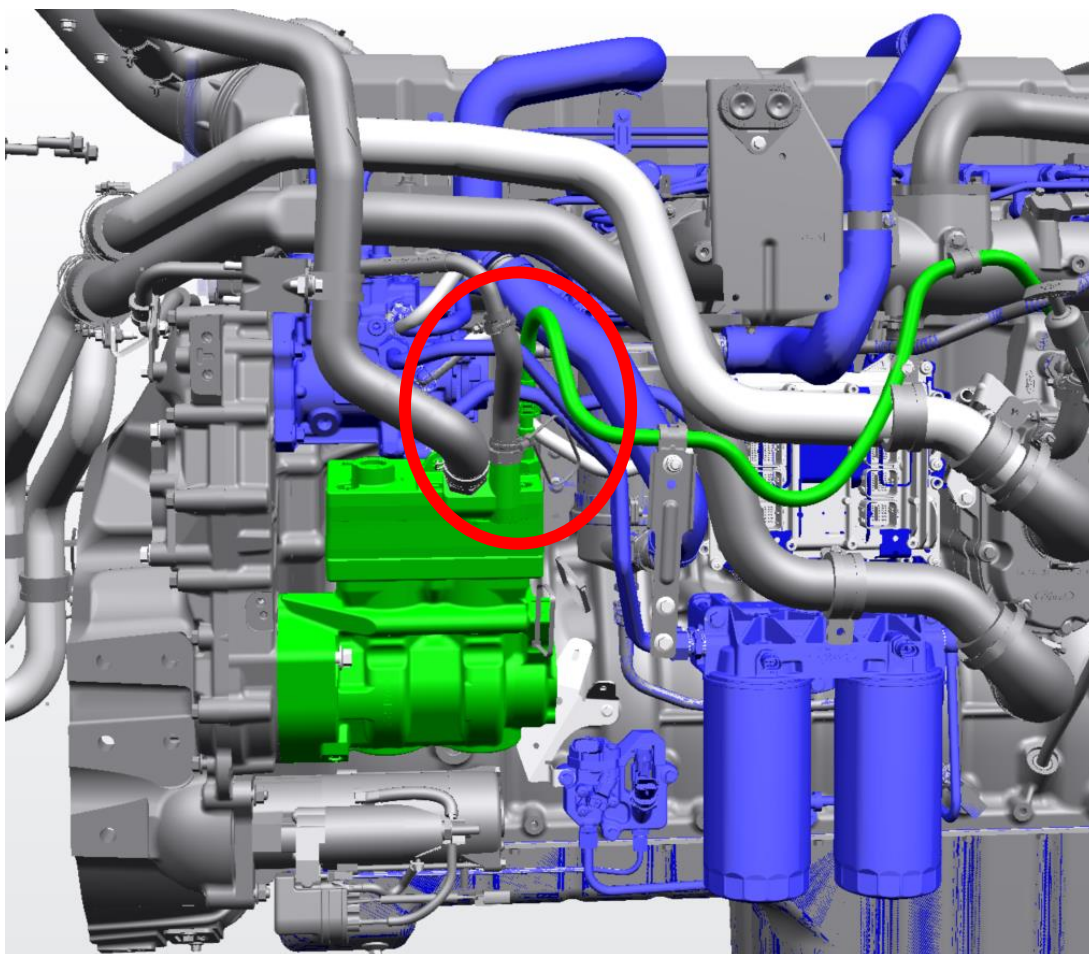
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**Figure 14 – Area of Repair Action on Engine**

In vehicles with a dual-piston air compressor, ensure the installation of the additional strap. First, identify the appropriate hose. The relevant hose is the plastic fuel hose with the GC46-9B273-A\* casing, coming from the fuel pump and entering the fuel filter.

## I. GAF ADDITION PROCESS



Figure 15 – GAF – 4C46-2254-BA – should be 10 cm long



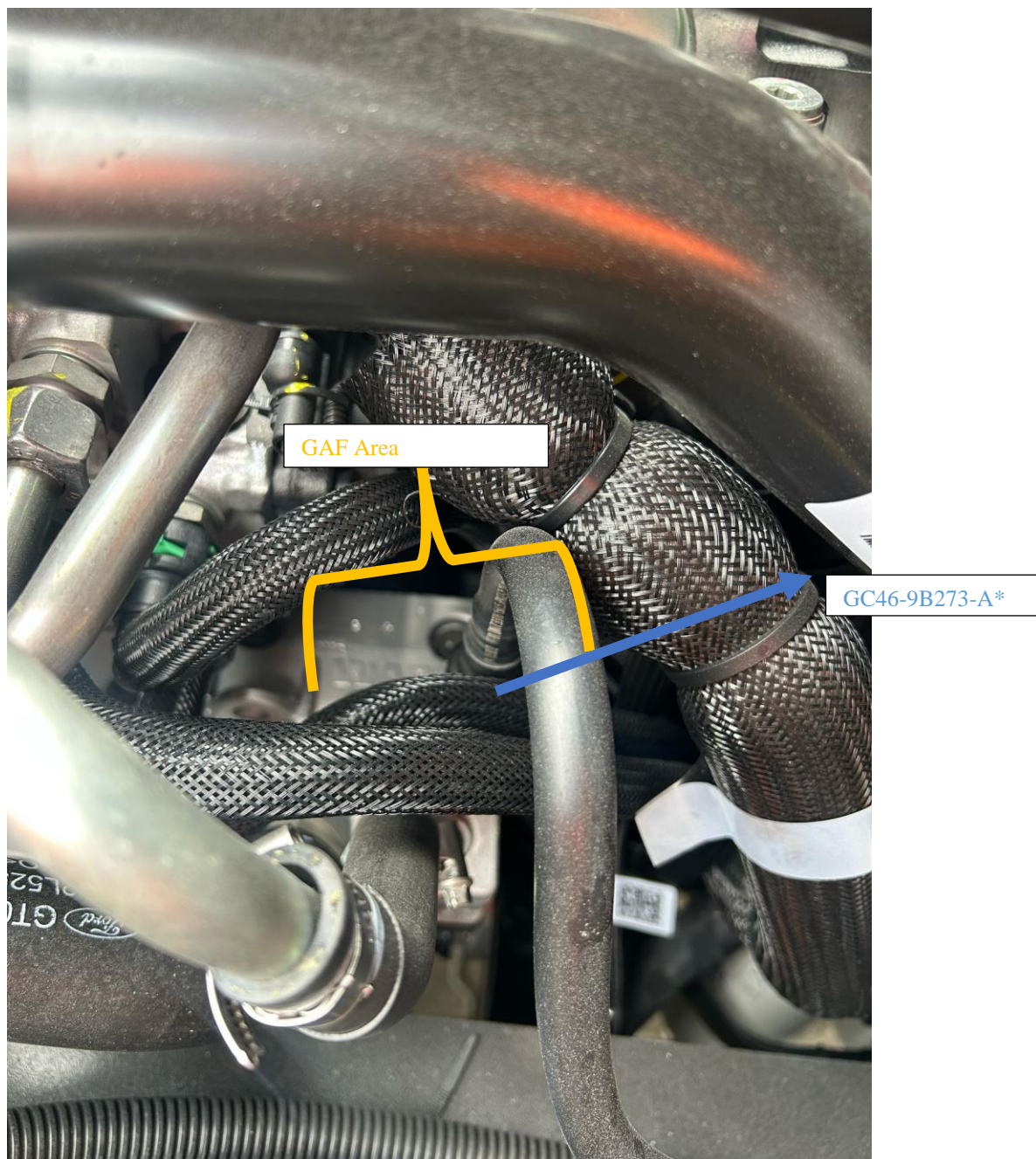
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**Figure 16 – Region to Apply GAF**

- a) First, add a 15 cm GAF to the GC46-9B273-A\* fuel pipe in the area marked in orange in the upper image.

## II. C-Clip Strap Application



Figure 17 – C-Clip Strap (MC46-14197-AA) to be used in the repair process

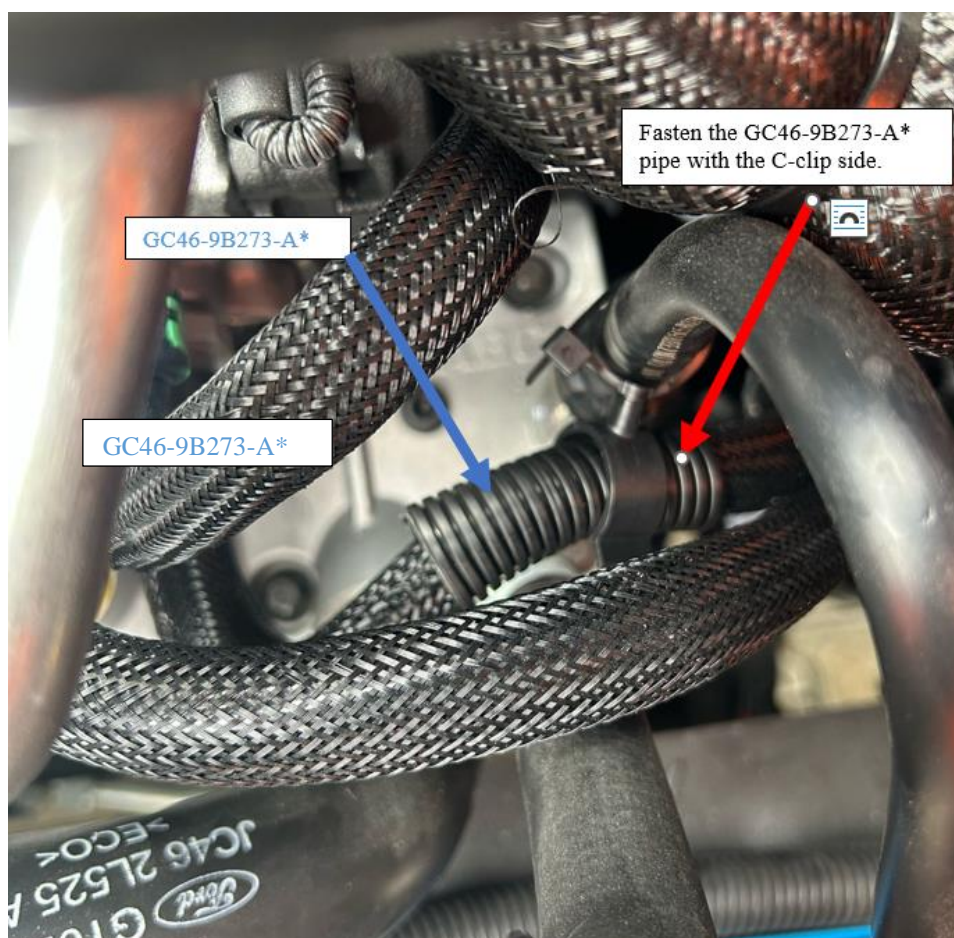


Figure 18 – C-Clip - GC46-9B273-A\* Connection



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- a) Secure the GC46 9B273 A\* fuel pipe with the C-Clip part of the C-clip strap numbered MC46-14197-AA.

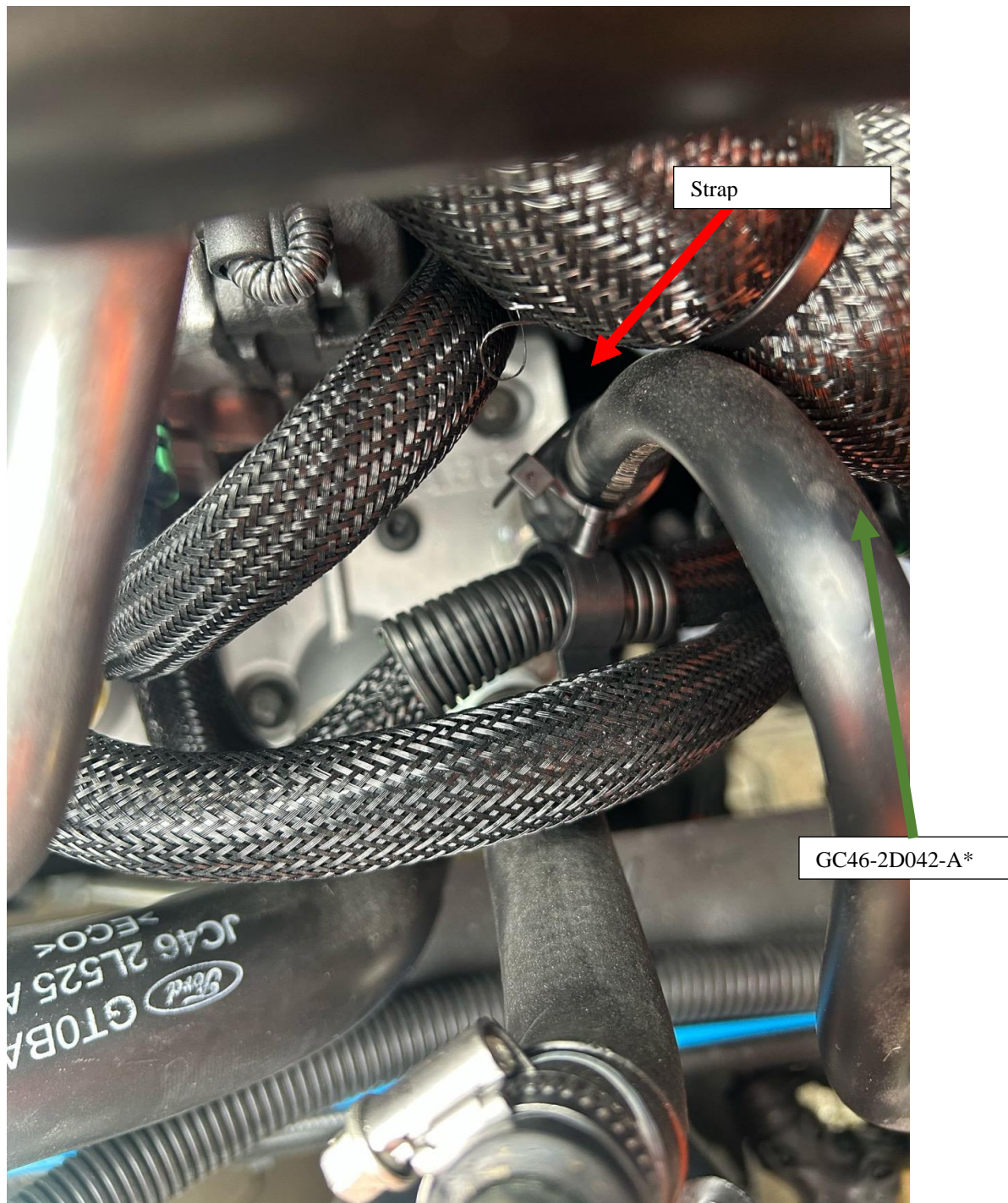


Figure 19 – Strap Connection with GC46-9B273-A\*



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- b) Connect the GC46-2D042-A\* air compressor output pipe with the strap part of the C-Clip strap numbered MC46-14197-AA. Tighten the strap.

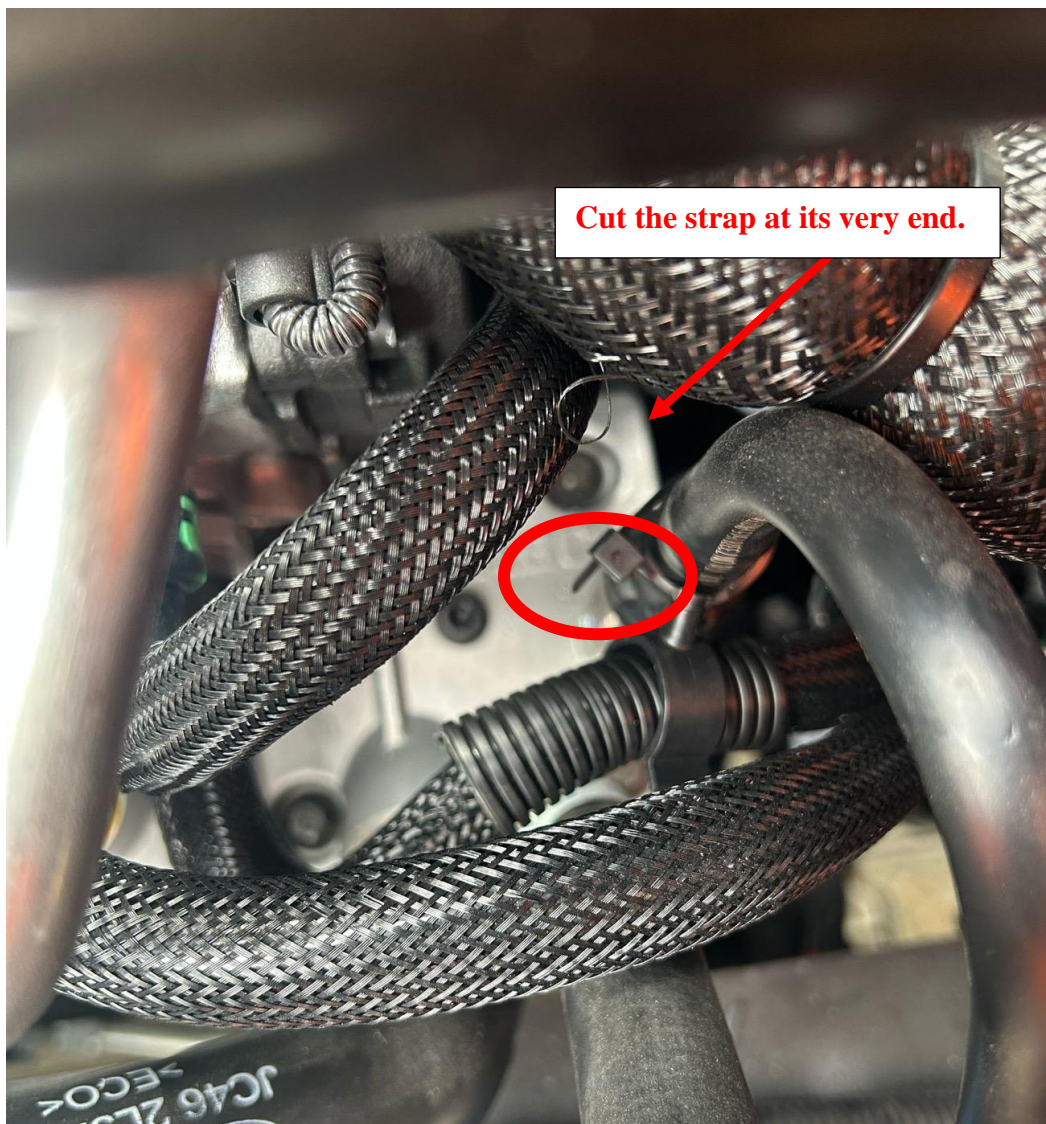


Figure 20 – Strap Connection with GC46-9B273-A\*

- c) After completing the tightening process of the strap part of the C-Clip strap numbered MC46-14197-AA, cut the strap from the end as shown in the image below.

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