

Subject: TS45 Air Tank strings replacement Bulletin Type: FC

Bulletin No: TS45-FC-2512

PQR No: 500000007842

Rev No:0

Ref. No:000700004702

Vehicle Model: TS45

Flat Rate Time / Code: 2 men x hours

Date of issue: 25/04/2025

Modify Before: 25/05/2026

What to do with off coming parts:

- ☒ Scrap
- ☐ Return
- ☐ Use with additional parts
- ☐ On consignment
- ☐ No off coming parts

What to do with outstanding parts of previous revision:

- ☐ Scrap
- ☐ Return
- ☐ Use with additional parts
- ☐ On consignment
- ☒ No outstanding parts

Description of the modification:

Due to the freezing issue observed in the cable of the air tank drainage system in TS45 model vehicles, a revision has been implemented.

Bulletin Responsible: Mehmet Ali KAYSANIK

Published & Approved By: Ahmet Ozan Özcan

SAFETY INSTRUCTIONS

1. Mechanical Requested Dress Code

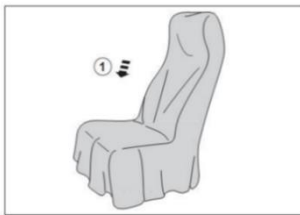


WARNING:

- Dress properly to avoid personal injury and damage to the vehicle

- ✓ Always wear protective clothing
- ✓ Do not wear any worn or loose-fitting clothing
- ✓ Remove jewelry before starting to work
- ✓ In case of long hair, use hairnet
- ✓ The illustration on the left shows some of the correct and incorrect clothing
- ✓ Sharp edged items should be avoided in order not to scratch vehicle (i.e. belts, watches, necklace)

2. Protect Seats when Mechanic Starts Working

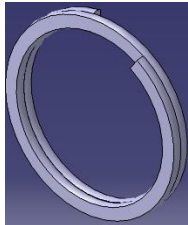
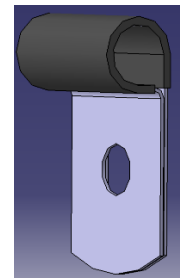
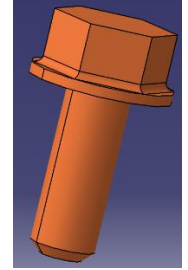


- ✓ Seats, trimming, upholstery stuff and carpeting should be protected with appropriate coverings.

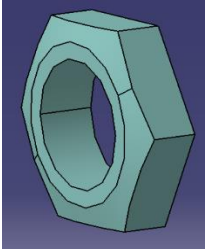
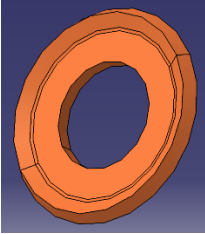
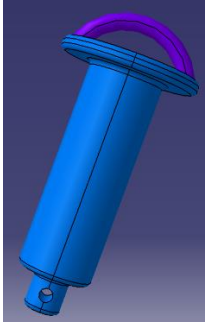
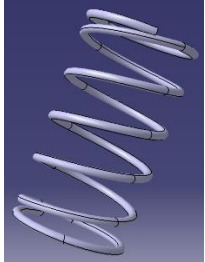
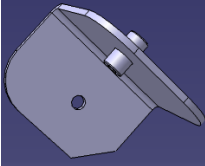
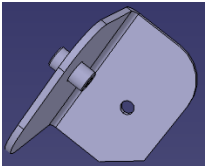
3. Welding on the Chassis

- a. Always disconnect the batteries (starting with the negative lead).
- b. Disconnect the connectors of electrical and electronic equipment (electronic control units, sensors and actuators) if they are less than 2 meters away from the chassis part to be welded or the earth terminal of the welding equipment.
- c. The earth terminal should never be attached to vehicle components such as engine, axles and springs. Arcing on these parts is not permitted, because of the risk of damage to bearings, springs, etc.
- d. The earth terminal must make good contact and be placed as close as possible to the part to be welded.
- e. Plastic pipes, rubber parts and parabolic springs should be well protected against welding spatter and temperatures higher than 70°.
- f. The contact switch must not be in the accessory or contact position. The contact key should be removed.
- g. Reconnect in reversed order of disconnecting. Ensure that a good earth connection is made between chassis, engine and cab.

CANCELED PART LIST PER VEHICLE

NO	PRODUCT NO	PRODUCT NAME	IMAGE	QTY	UNIT
1	SB275132Y	RING		2	PIECE
2	RP275125Y	BUMPER STRING (2100-1630)		4	PIECE
3	RP275119Y	BUMPER STRING (1950-2500)		2	PIECE
4	MA275752Y	CLIP (6.4)		2	PIECE
5	MF140005Y	BOLT, HEX, FLANGE (M6X0.9X16 4T) K:5.8		1	PIECE

INCLUDED PART LIST PER VEHICLE

NO	PRODUCT NO	PRODUCT NAME	IMAGE	QTY	UNIT
1	TC298806-52Y	NUT, HEX (M16X1,5)		2	PIECE
2	MT100388Y	WASHER(A), EYE		4	PIECE
3	9207-185	PIM, AIR DRAIN		2	PIECE
4	9201-22	SPRING, AIR DRAIN		2	PIECE
5	9320-6802	L BRACKET, AIR TANK		1	PIECE
6	9320-6803	L BRACKET, AIR TANK		1	PIECE

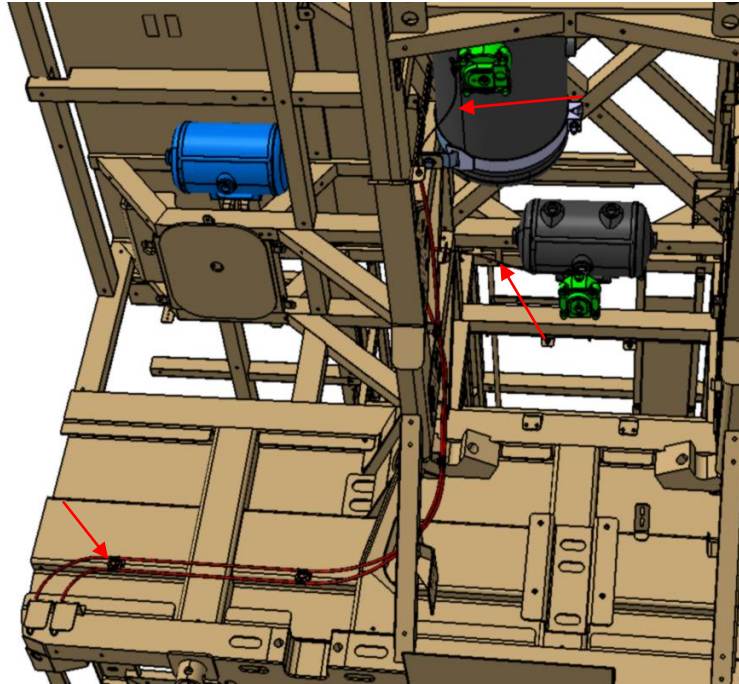
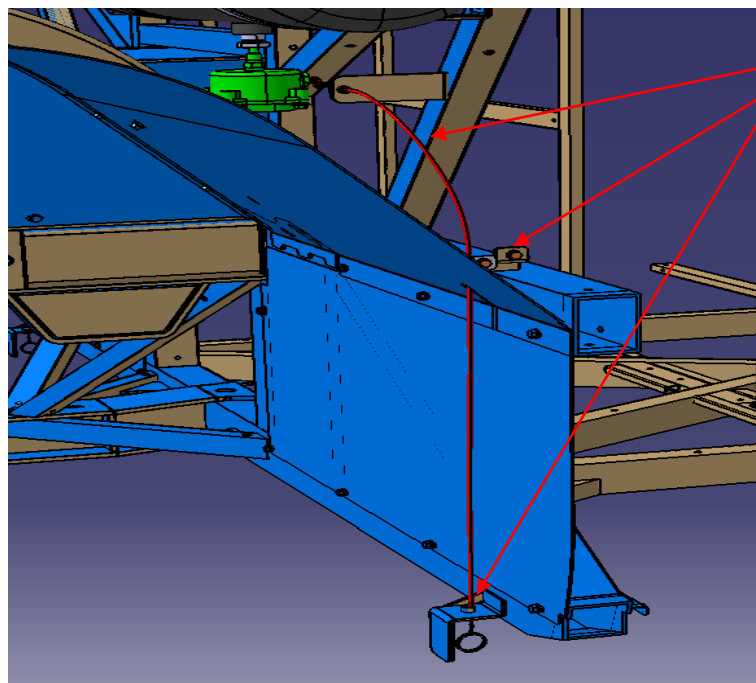


Figure 1 - Old Rear Air Tank Drain systems must be demounted.

The bus must first be moved to the maintenance bay to facilitate operations on the rear air tanks. Once relocated, the old systems are to be dismantled and removed from the vehicle.



These parts must be dismantled

Figure 2 - Front Brake Air Tank Drain System on Left Side

The old systems were removed from the bus. It is recommended to cut and remove the brackets located at the bottom. To facilitate the process, the steering system should be turned to the right while cutting and removing the bracket positioned on the lower left side.

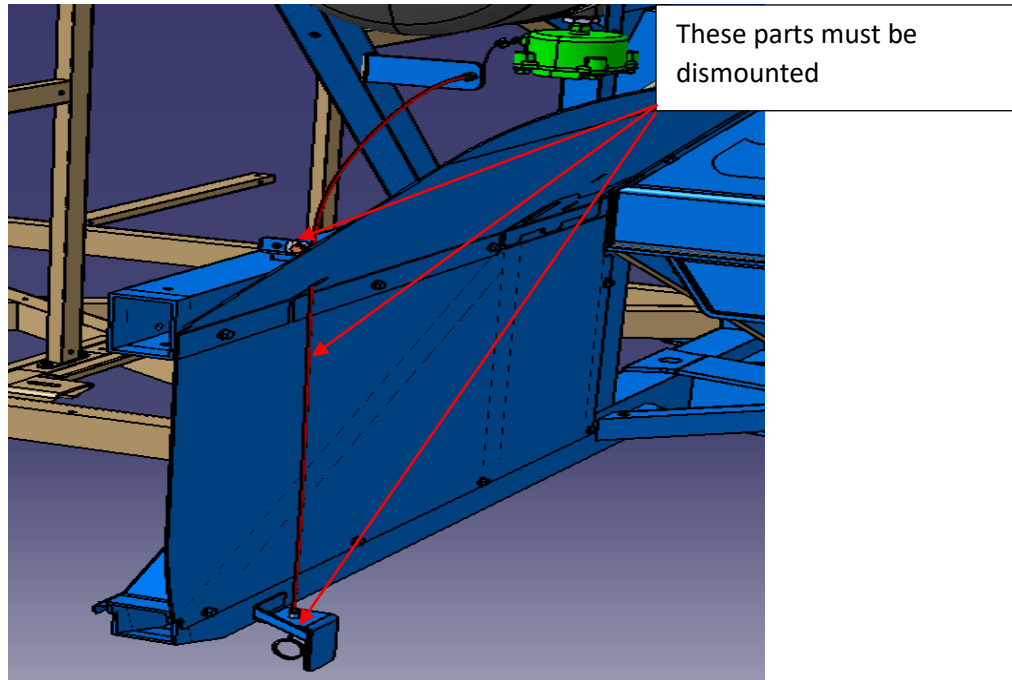


Figure 3 - Front Brake Air Tank Drain System on Right Side

The old systems were removed from the bus. It is recommended to cut and remove the brackets located at the bottom. To facilitate the process, the steering system should be turned to the left while cutting and removing the bracket positioned on the lower right side.



Figure 4- Drain Plugs on the Rear Side must be dismantled with suitable wrench.

The drain plugs on the Brake and Distributor air tanks should be removed using an appropriate wrench. Prior to this process, the air in the tanks must be fully released.



Figure 5- String assembly to the Drain Plug.

The strings should be cut to lengths of 20 cm for the Brake Air Tank and 35 cm for the Distributor Air Tank. They must then be formed into rings, attached to the nut, and secured with an aluminum clamp.



Figure 6 – Before Drain Plugs mounted, must apply Loctite 222

Following this process, drain nuts must be reinstalled and secured using Loctite 222.



Figure 7- Brake Air Tank's string assembly. Attention! The string must not contact the shaft



Figure 8- Distributor Air Tank's string assembly.

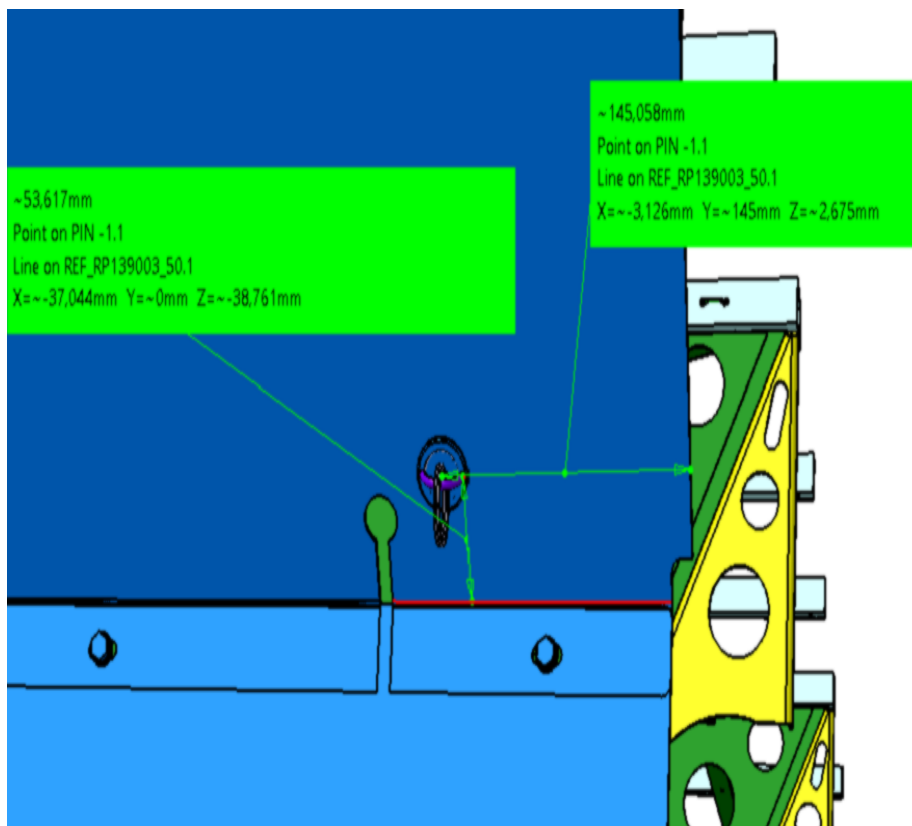


Figure 9 – Left Side Hole Dimensions for Pin in New System

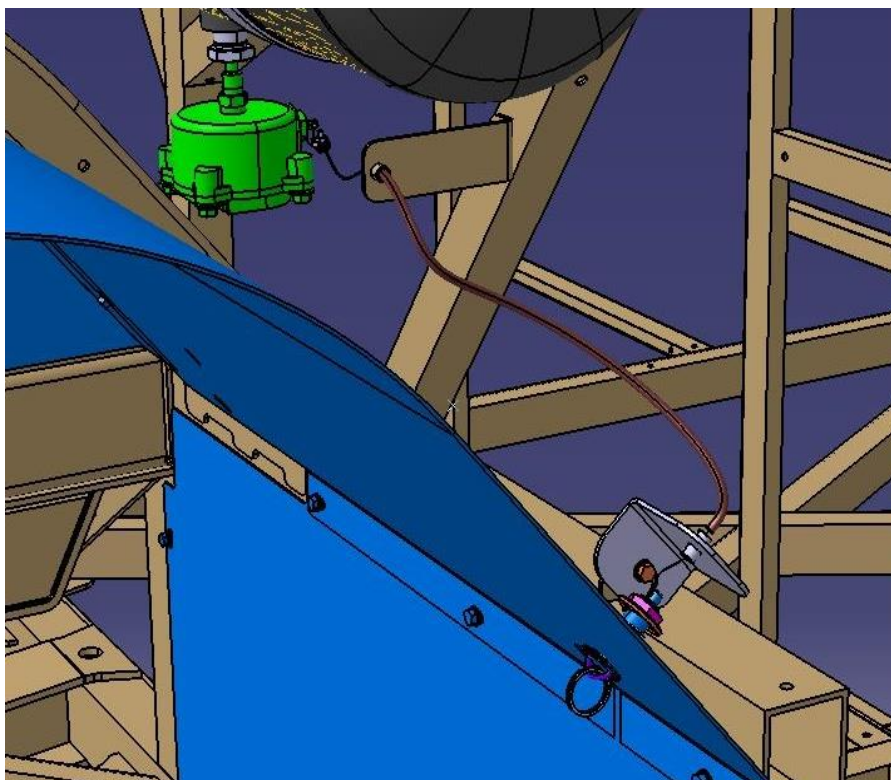


Figure 10- Front Brake Air Tank Drain New System on Left Side

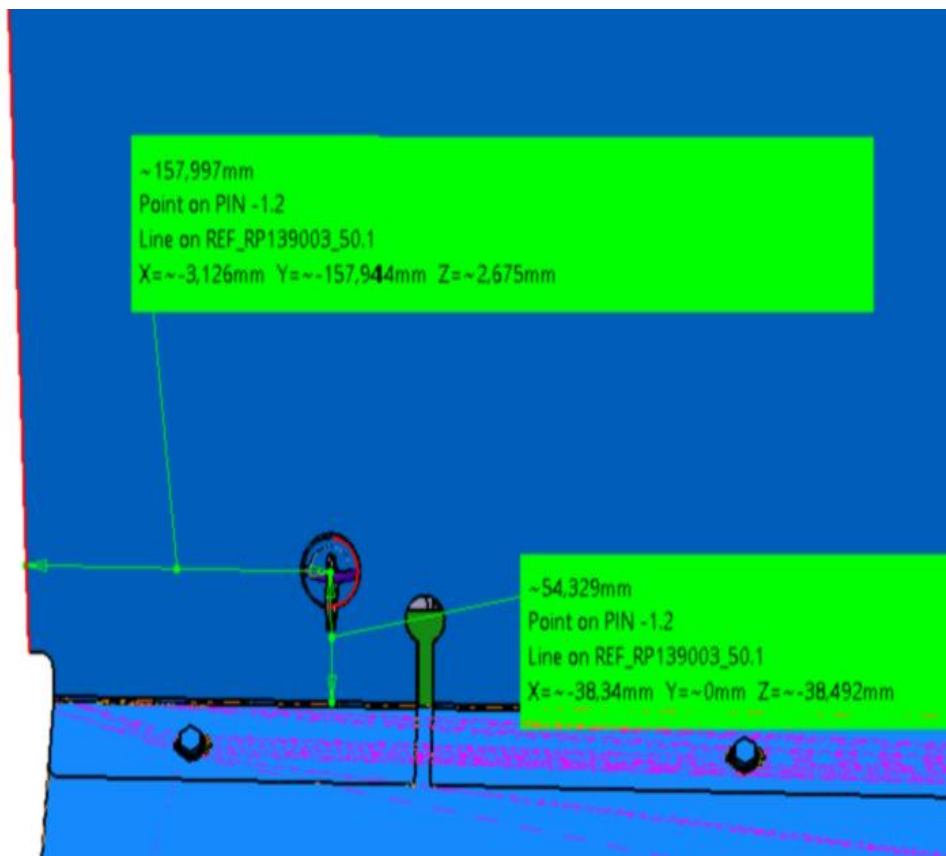


Figure 11 - Right Side Hole Dimensions for Pin in New System

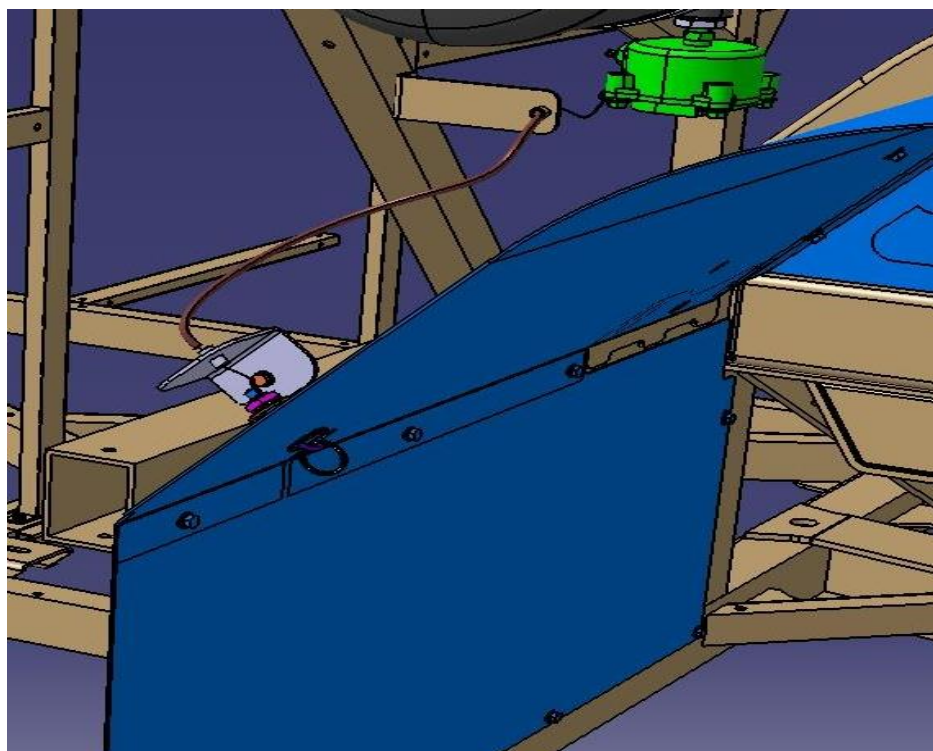


Figure 12- Front Brake Air Tank Drain New System on Right Side

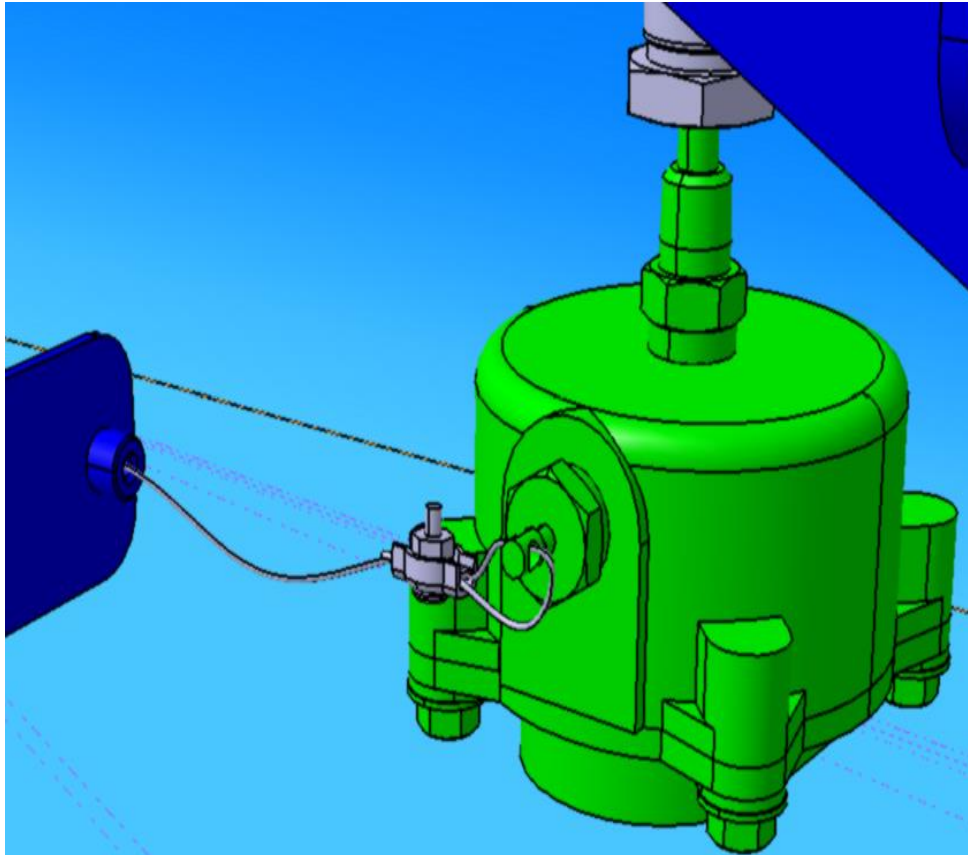
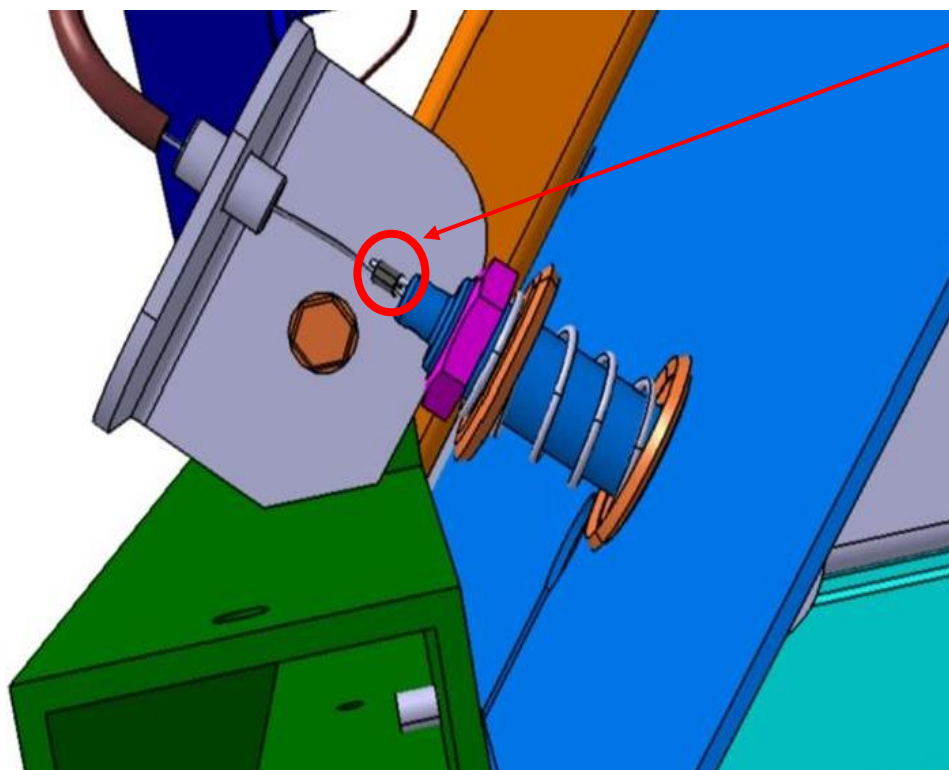


Figure 13 – String Connection to Air Tank Detail on New System in Front Side



This copper clamp must be tighten after the string is adjustment

Figure 14 – String Connection to Pin Detail on New System in Front Side

LABOR BREAKDOWN

Application	Time
Demounting Old Systems	0,5 hour
Mounting New Systems	1,5 hours
Total Labor Time	2 hours

AFFECTED VEHICLE

No	VIN
1	NLTEJXA93R1000457
2	NLTEJXA95R1000458
3	NLTEJXB96S1000618
4	NLTEJXB94S1000620
5	NLTEJXB98S1000622
6	NLTEJXB9XS1000623
7	NLTEJXB97S1000658
8	NLTEJXB95S1000660
9	NLTEJXB99S1000659
10	NLTEJXB97S1000661