

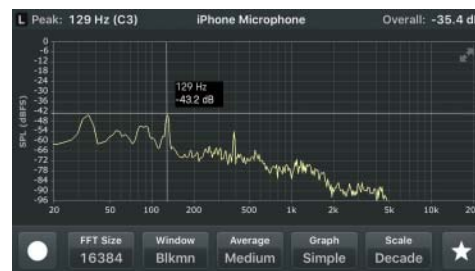
**Noise symptom - Rumbling Noises in the Vehicle/Vibrations on the Steering Wheel when Air Conditioning is Activated: Reworking Compressor/Evaporator Line (SY 57/19)**

Vehicle type: **Panamera 4 E-Hybrid (971)/Panamera Turbo S E-Hybrid (971)**  
**Panamera 4 E-Hybrid Executive (971)/Panamera Turbo S E-Hybrid Executive (971)**  
**Panamera 4 E-Hybrid Sport Turismo (971)/Panamera Turbo S E-Hybrid Sport Turismo (971)**

Model Year: **As of 2017 up to 2019**

Subject: **Air conditioning – compressor/evaporator line**

Symptom: When air conditioning is activated and the blower is at its highest setting, rumbling noises can be heard in the vehicle and vibrations can be felt on the steering wheel. A plot showing the frequency of the noise/vibration is below.



*G2 PHEV AC Compressor vibration-noise*

Cause: Vibrations in the air-conditioning compressor can be transmitted into the interior of the vehicle via the compressor/evaporator line.

Remedial Action: Fit blocking mass on compressor/evaporator line.

**Required tools and spare parts**

Tools:

- Measuring tape
- Textile marker, white
- Scissors

Spare Parts:	Part Info	Designation	Qty.
	971298091	⇒ Repair kit (incl. silicone tape)	1 ea.

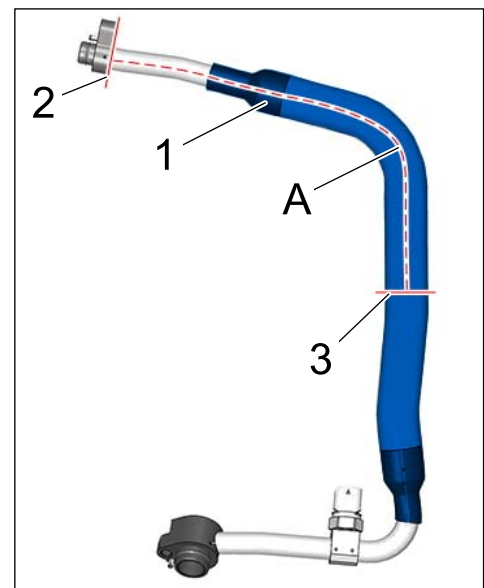
## Preparatory work

Work Procedure: 1 Remove compressor/evaporator line – air-conditioning compressor section, see ⇒ *Workshop Manual '874519 Removing and installing compressor/evaporator line'*.

## Reworking compressor/evaporator line

Work Procedure: 1 Determine the position on the cut protection ⇒ *Cut protection -1-*.

- 1.1 Place measuring tape at the starting point ⇒ *Cut protection -2-* and measure **355 mm** along the compressor/evaporator line ⇒ *Cut protection -A-*.
- 1.2 Mark position ⇒ *Cut protection -3-* using a textile marker.



*Cut protection*

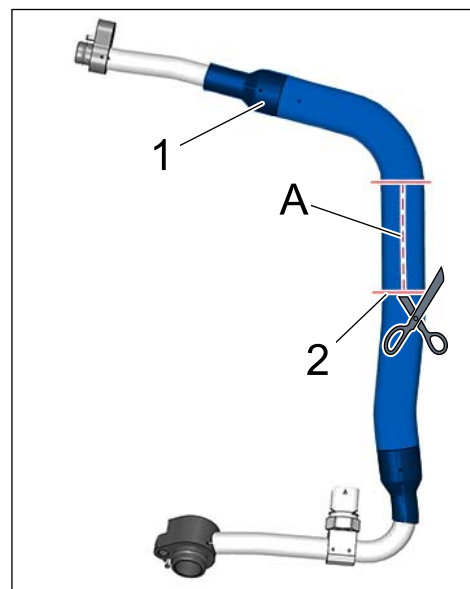
- 1 – Cut protection
- 2 – Starting point for measurement
- 3 – Marking
- A – Length: 355 mm



### Information

Be extremely careful when cutting open the cut protection so as not to damage the hose on the refrigerant line underneath.

- 2 Cut open cut protection ⇒ *Marking on cut protection -1-*, starting from the marking ⇒ *Marking on cut protection -2-*, to a length of **70 mm** (⇒ *Marking on cut protection -A-*).



*Marking on cut protection*

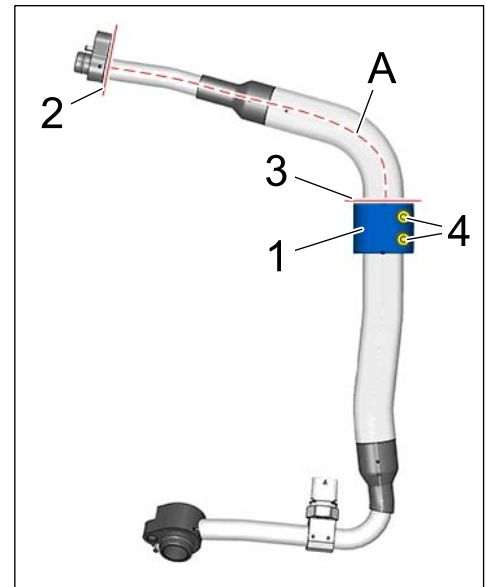
- 1** – Cut protection
- 2** – Marking
- A** – Length: 70 mm

- 3 Widen and open up cut protection ⇒ *Cut protection opened up -1-* to expose the mounting point.



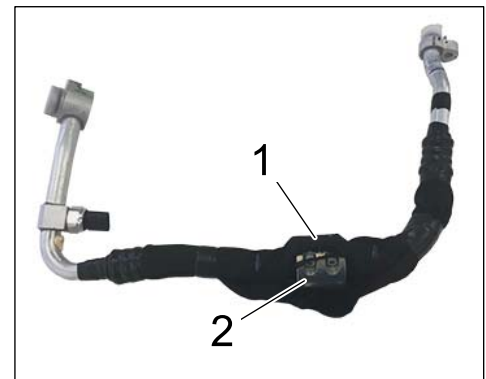
*Cut protection opened up*

- 4 Fit blocking mass ⇒ *Blocking mass -1-* on compressor/evaporator line.
  - 4.1 Place measuring tape at the starting point ⇒ *Blocking mass -2-* and measure **291 mm** along the compressor/evaporator line ⇒ *Blocking mass -A-*.
  - 4.2 Mark position ⇒ *Blocking mass -3-* using a textile marker.
  - 4.3 Position blocking mass ⇒ *Blocking mass -1-* below the marking ⇒ *Blocking mass -3-* and tighten screws ⇒ *Blocking mass -4-* to **Tightening torque 8 Nm (6 ftlb.)**.

*Blocking mass*

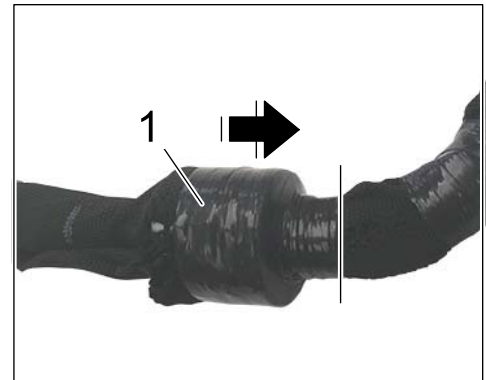
- 1** – Blocking mass
- 2** – Starting point for measurement
- 3** – Marking
- A** – Length: 291 mm

- 5 Place cut protection ⇒ *Positioning cut protection -1-* over the blocking mass ⇒ *Positioning cut protection -2-* and hold it together.

*Positioning cut protection***Information**

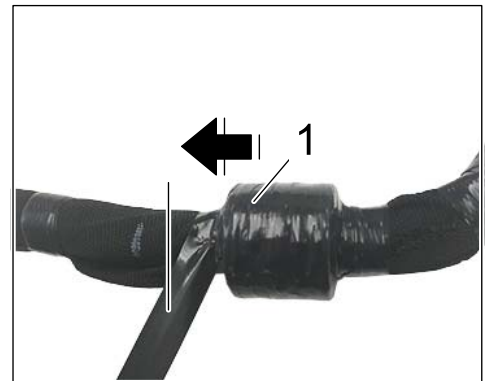
The silicone tape must be applied tightly to ensure that it holds properly.

- 6 Secure cut protection, starting from the centre of the blocking mass ⇒ *Securing cut protection: Step 1-1-* to the right, using silicone tape.



*Securing cut protection: Step 1*

- 7 Secure cut protection, starting from the centre of the blocking mass ⇒ *Securing cut protection: Step 2-1-* to the left, using silicone tape.
- 8 Visually check that the cut protection is secured properly ⇒ *Overview: Cut protection secured properly.*



*Securing cut protection: Step 2*



*Overview: Cut protection secured properly*

### Concluding work

Work Procedure: 1 Install compressor/evaporator line – air-conditioning compressor section, see ⇒ *Workshop Manual '874519 Removing and installing compressor/evaporator line'*.

### Invoicing

Invoicing: For documentation and warranty invoicing, enter the labor operations, PQIS coding and part numbers specified below in the warranty claim:

APOS	Labour operation	I No.
87454900	Reworking compressor/evaporator line	

PQIS coding:

Location (FES5)	87010	Air conditioning
Damage type (SA4)	2018	rumbling, humming

Part Info:	<b>Part Info</b>	<b>Designation</b>	<b>Qty.</b>
	971298091	⇒ Repair kit (incl. silicone tape)	1 ea.
References:	⇒ <i>Workshop Manual '874519 Removing and installing compressor/evaporator line'</i>		

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