SERVICE BULLETIN

Subject: Starter Relay Freezing	Bulletin type: FC
Bulletin Nu: **TS35-FC-2105**	PQR Nu:**500000006777**
Rev Nu: **00**	Ref. Nu: **400000007339**
AraçModeli: **TS35 EPA17**	Labor time: **30 min**
Release date: **06.09.2021**	Expiration Of Validity :

What to do with off coming parts:	**What to do with outstanding parts of previous revision:**
☐Scrap	☐Scrap
☐Return	☐Return
☐Use with additional parts	☐Use with additional parts
☐On consignment	☐On consignment
☐No off coming parts	☐No off coming parts

Description of the modification: Starter Relay Freezing

Liable: **Tuğçe Aydil Dalkıran**

Confirmation &Release:

SERVICE BULLETIN

SAFETY INSTRUCTIONS

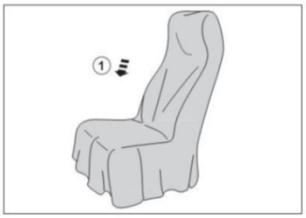
1. Mechanical Requested Dress Code

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.

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This service bulletin is prepared to explain how the insulation layer are assembled into the battery lid to avoid the freezing of the relay in the vehicle. Note that the insulation plates can placed into the battery lid without dissembled the lid from the vehicle.

Table.1 shows the assembled parts which are used for applying this service bulletin.

Table.1 The assembled parts

Seq Nu	Part Number	Part Name	Quantity	Unit
1	YPTY202112-07Y	SPONGE, BAZOTEC, YPTY202112 (900*800*35)	1	PC
2	YP9802-400-01Y	INSULATION GLASS WOOL, AL.LAYER-(1700*1200*5)	1	PC

This service bulletin is prepared to explain how the insulation layer are assembled into the battery lid to avoid the freezing of the relay in the vehicle. Note that the insulation plates can placed into the battery lid without dissembled the lid from the vehicle. The related 3D image of the battery lid is shown in Figure.1.

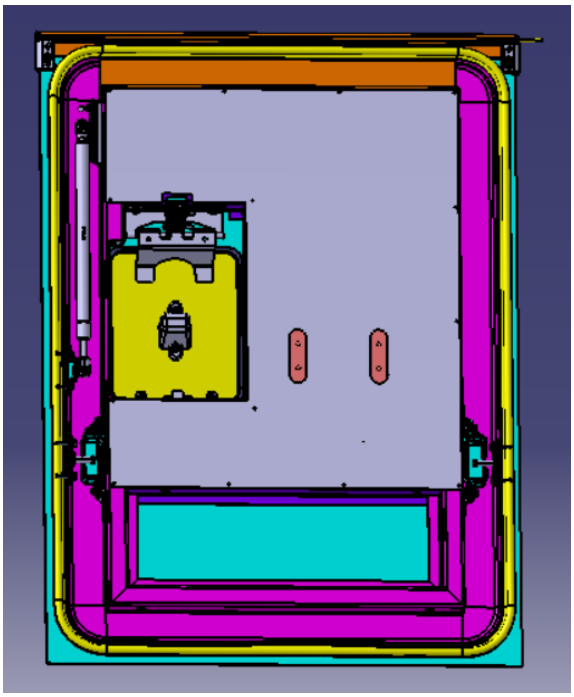

Figure.1 The 3D Image of Battery Lid

TECHNICAL INSTRUCTIONS:

The battery lid trim panel is firstly dissembled from the battery lid to reach the places needs to be isolated as shown in Figure.2.

Figure.2 The trim panel of the battery lid

The battery lid without the trim panel is shown in Figure.3. It also shows the places where the insulation plates can be placed for the insulation of the battery room.

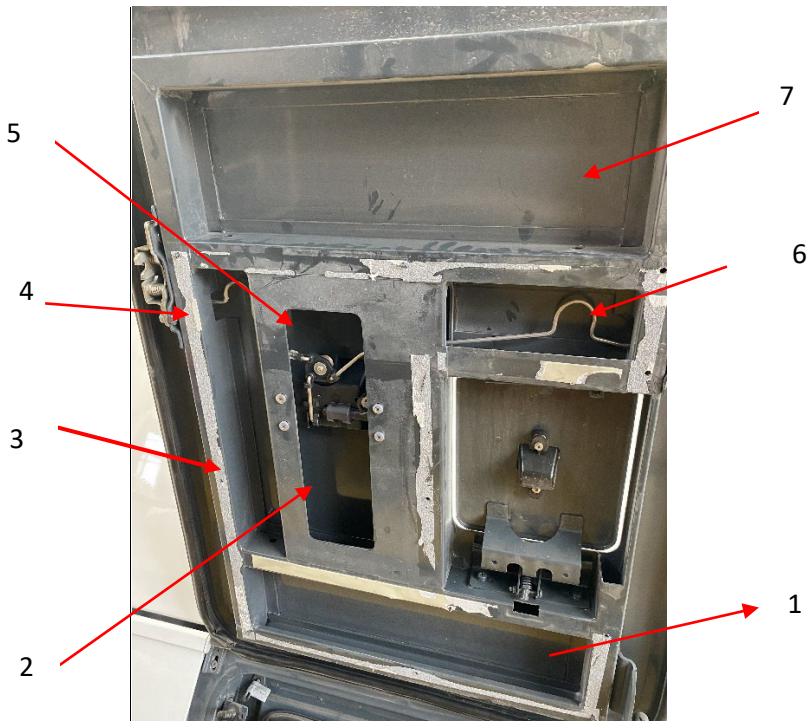

Figure.3. The battery lid without the trim panel

The clearences which are shown in Figure.3 are filled with insulation plates. There are two different types of insulations, sponge basotec and insulation glass wool, are used to isolate the lid.

Firstly the sponge basotec is cutted according to the dimensions of the clearence which desired to isolated.

Figure.4. The cutting operation of sponge basotec

Then, they are assembled to the clearences 1,2 and 3 as shown in Figure.5.

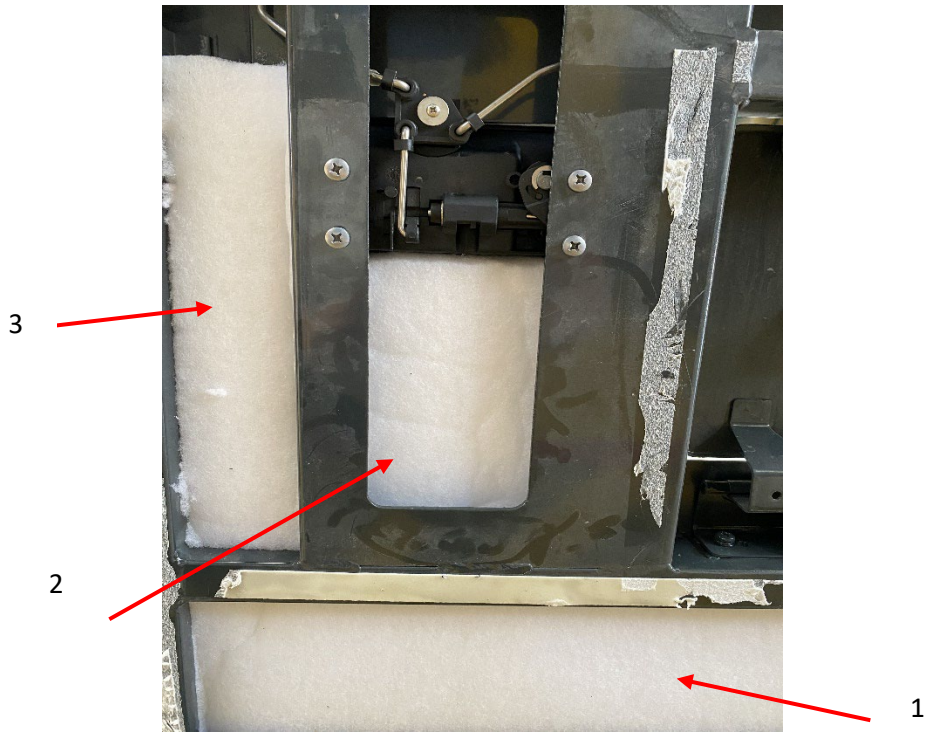

Figure.5.The cutting operation of sponge basotec

Table.2 shows the dimensions of clearance or sponge basotec insulation plates parts.

Table.2 The dimensions of clearences (sponge basotec insulation plates)

Clearence	Length (x-coordinate)	Height (z coordinate)	Unit
1	466	140	mm
2	211	200	mm
3	70	280	mm

Then the insulation glass wool which has self adhesive is cutted according to the same dimension with the applied sponge basotec. To stick the glass wool, the bant on the back of it must be removed which is shown in Figure.6

Figure.6 The image of glass wool

The dimension of insulation glass wool insulation plates are shown in Table.3

Table.3 The dimensions of clearences (dimension of insulation glass wool insulation plates)

Clearence	Length (x-coordinate)	Height (z coordinate)	Unit
1,2,3	Same as Table.1	Same as Table.1	mm
4	70	115	mm
5	211	195	mm
6	179	97	mm
7	466	147	mm

Then, it is pasted onto the sponge basotec in the clearance 1,2 and 3.

Since there is the latch connection rod of the battery lid, the sponge basotec can not be applied to this place to prevent any difficulties of the opening and closing of the lid. So it can be used insulation glass wool for the clearences 4, 5 and 6 under the latch connection rod of the battery lid.

The glass wool is also placed to the clearance 7 after cutting it to the proper dimension of the clearance.

The final image of the application of these insulations are shown in Figure.7.

Figure.7 The final image of the application of insulation

Finally, the trim panel of the battery lid is mounted onto the insulation plate.

TEMSA

SERVICE BULLETIN

The chassis number of vehicles for this service bulletin are listed as following

NLTRPPM70K1000531

NLTRPPM71L1000605

NLTRPPM72K1000532

NLTRPPM73K1000491

NLTRPPM76K1000517

NLTRPPM77K1000512

NLTRPPM79L1000562

NLTRPPY79H1000434