

Technical information

TI No.: 54.21U19068A**Distribution list: D****Distribution date:****19.12.2019****Valid until: 31.12.2039****The point of contact is the EvoBus after-sales service in each country**

Model: TC 400 USA**MODEL SERIES:** 629540; 629557**TITLE:** **TC 400 USA - Repositioning the diagnostics connector**

COMPLAINT

The position of the diagnostics connector does not conform to legal requirements.

CAUSE

Error in the documentation.

REMEDY

Fit a new diagnostics connector in the legally specified position.

MEASURE TYPE

The scope of the work is carried out as part of a compliance recall (RC).



Observe the following at the time of parts ordering:

The transfer rates used in the diagnostics system differ by model year. Vehicles produced in a model year up to 2015 have a baud rate of 250 k (black diagnostics connector); vehicles from model year 2016 onwards use a baud rate of 500 k (green diagnostics connector).

The model year is encoded in the 10th character of the chassis number. For each vehicle, the respective model year can be determined from the overview provided.

DEFECT PART HANDLING

The GALA (warranty parts processing) stipulations are binding. Workshops without GALA should scrap the defect parts immediately after the repair.

REPLACEMENT PARTS REQUIRED

| Quantity | Designation | Number | Comment |
|----------|-----------------------------|--------------------|--|
| 1 | Black diagnostics connector | A 629 540 81 27 05 | Baud rate 250 k valid for model year up to 2015 |
| 1 | Green diagnostics connector | A 629 540 79 27 05 | Baud rate 500 k valid for model year from 2016 onwards |
| 1 | Retaining plate | A 620 689 04 11 05 | |
| 1 | Cover | A 620 689 03 07 05 | |
| 2 | Self-tapping screw 4.8 x 16 | N 000000 000528 | Fastening of retaining plate to bodywork |
| 4 | Self-tapping screw 2.9 x 13 | N 000000 000879 | Fastening of diagnostics connector to bracket |
| 2 | Self-tapping screw 4.2 x 13 | N 000000 000521 | Fastening of cover to bracket |
| 1 | Connector housing | A 026 545 97 28 05 | |
| 7 | Flat-pin connector | A 035 545 24 28 05 | |
| 10 | Cable tie | A 004 997 18 90 05 | |

OPERATION TEXTS

| Operation no. | Operation text | Working time/h | Comment |
|---------------|--------------------------------------|----------------|---------|
| 02-1572 | Reposition the diagnostics connector | 1.7 | |

The times apply for work at an hourly rate.

DEFECT NUMBER

| Defect no.: | Designation |
|-------------|-------------|
| 5494176 | |

CODEWORD

5421U19068

INTRODUCTION OF MODIFICATIONS INTO SERIES PRODUCTION

01.12.2019

WARRANTY AND GOODWILL SETTLEMENTS

Field measure type RC: 100 % of costs will be accepted.

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Attachments

Procedure



Warning

Risk of injury and fire. There is a risk of injury if work is carried out on the electrical system or fuses incorrectly.

[Details...](#)

Procedure

- : Overview of model year encoding in chassis number

1. Switch off the battery isolating switch.



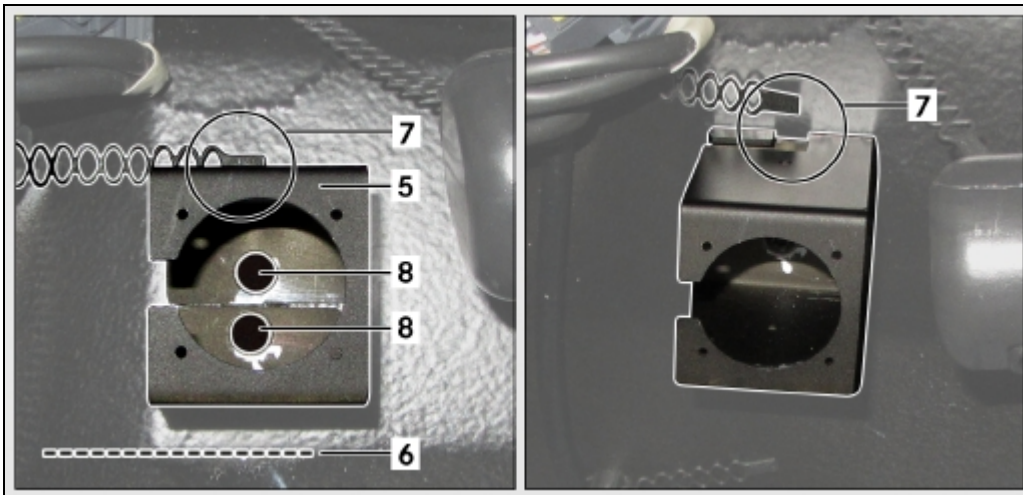
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2. Remove the cover on top of cockpit **(1)**.
3. Open the cover to stowage compartment **(2)** and remove stowage tray **(3)**.
4. Unclip needle-punched nonwoven fabric **(4)** in the driver's footwell and set it aside.



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Fitting the diagnostics connector to drawing specification



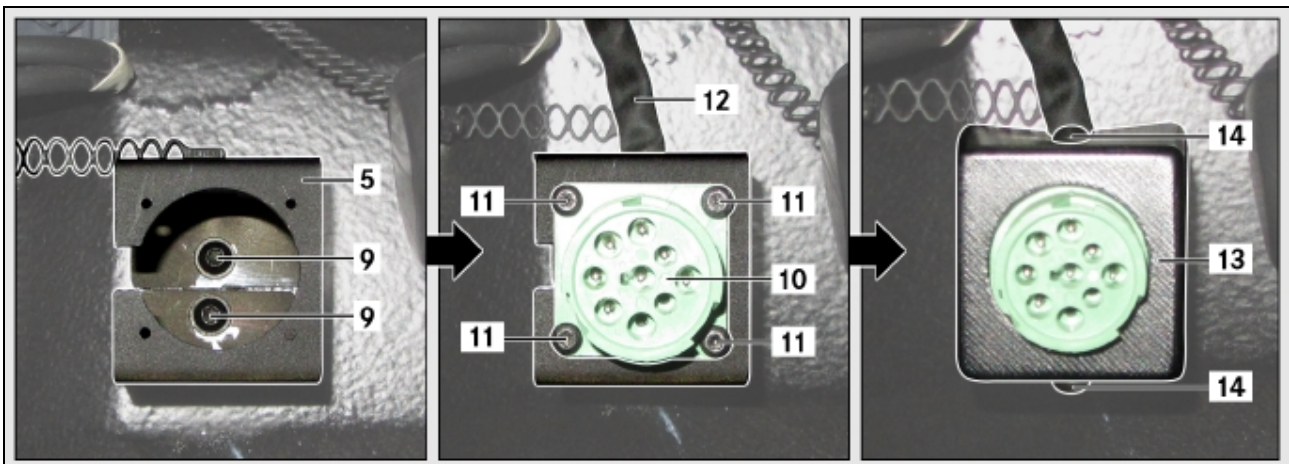
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5. Arrange retaining plate **(5)** parallel with bodywork edge **(6)** and mark bore holes **(8)**.

i **Note**

Cut-out **(7)** for the electrical line must be facing upwards.

- →: Installation drawing: diagnostics connector fastening



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6. Drill the holes using a twist drill (\varnothing **3.9 mm**).
7. Secure retaining plate **(5)** using screws **(9)**.

i **Note**

Cut-out **(7)** for electrical line **(12)** must be facing upwards.

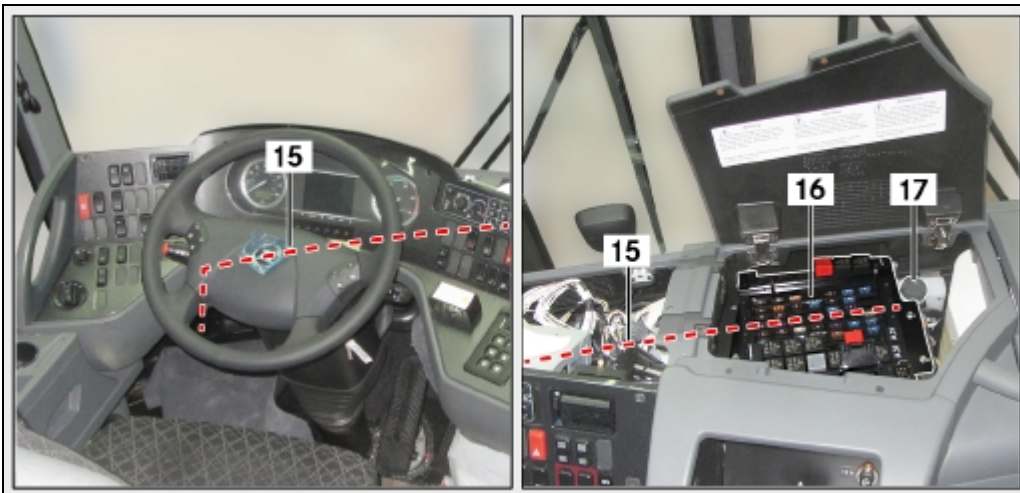
8. Fit diagnostics connector **(10)** and secure it using screws **(11)**.

i **Note**

Feed electrical line **(12)** upwards through the cut-out.

- 9.

Fit cover **(13)** and secure it using screws **(14)**.



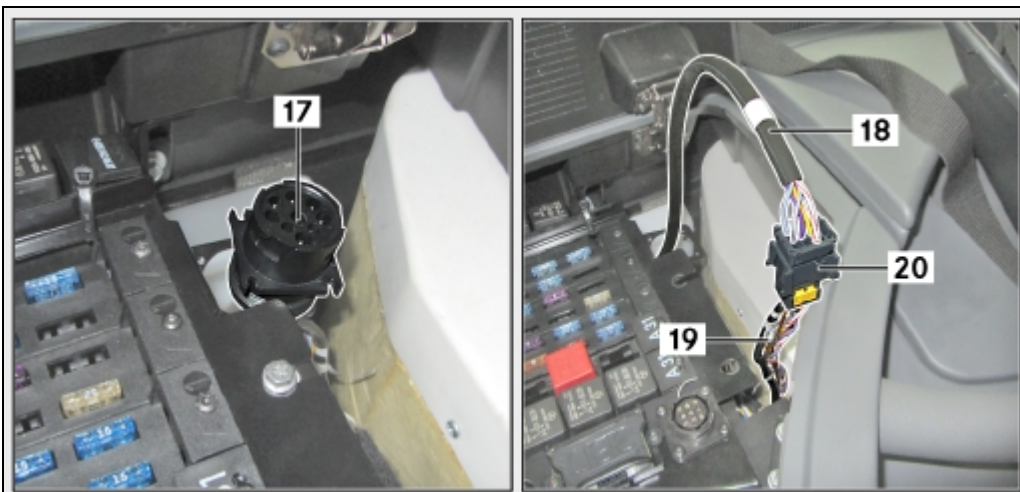
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10. Route electrical line **(15)** correctly along the existing wiring harness to the position of old diagnostics connector **(17)** and secure it using cable ties.



Note

For easier access, it is possible to remove fuse carrier **(16)**.



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11. Remove old diagnostics connector **(17)** and cut the electrical lines.
12. Using electrical connector **(20)**, connect the electrical lines of new **(18)** diagnostics connector to the electrical lines of old **(19)** diagnostics connector correctly in accordance with the pinout diagram.
 - →: Pinout valid for the green and black diagnostics connectors
13. Make a tidy cut in the needle-punched nonwoven fabric in the driver's



footwell for new diagnostics connector
(21) and fasten the fabric in place.



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Finishing tasks

1. Fit all removed covers.
2. Switch on the battery isolating switch.
3. [Updating vehicle documentation in the "VeDoc" system and updating bus-specific electrical data](#)

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