



## Products affected

Truck			Bus			Power Solutions			
4	PGRT	LPGRS	4	FKN	CK	P93	P96	E2011	PS2024
-	-	X	-	-	X	-	-	-	X

## Miscellaneous:

# Short-term tool solution for propulsion battery B8 408

## Background

Short-term solution for tools to loosen busbars that connect layer to layer is introduced.

A risk analysis has been carried out to evaluate and develop solutions to any risks that arise with the use of the tool.

No repairs may be carried out on the B8 408 propulsion battery without this tool.

Please note, however, that work in the battery junction box of the B8 408 propulsion battery does not require this tool. Note that this tool must not be used for work in the battery junction box. Instead, use tools from *3 170 140 Tool kit for electrified vehicles* and TI 16-24 09 18.

## Service solution

For methods for working in the propulsion battery, refer to the Workshop Manual.

Create a DRCA in connection with the module change to order the tool. LTS then creates an FQCA to initiate the lending of the tool. The tools are provided by lending and must therefore be returned after the work has been completed.

Information about shipping and returning the tool is sent out to the relevant workshop when an FQCA has been created.

## Instructions for using the tool

The tool must only be used for the busbars that run from layer to layer in the designated locations in the battery.

At the other positions, the other Torx T30 tools available in the *3 170 140 Tool kit for electrified vehicles* will work.

Before each use, check that:

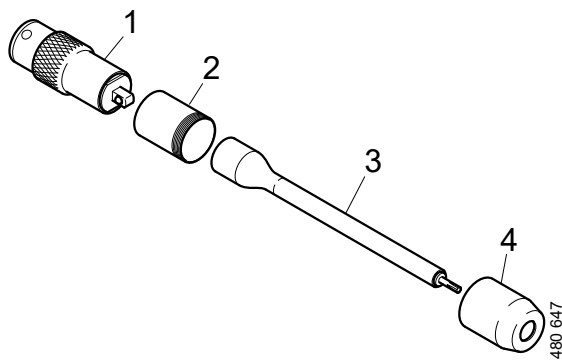


- The tool is clean and dry, make sure the tool has reached room temperature to avoid condensation in the tool.
  - Clean and allow to dry if necessary.
- All protective barriers are intact and correctly placed.
- Always wear insulating protective gloves.
- Cover all parts of batteries that are not being worked on with *3 155 255 Electrically insulating protective plastic*.
- If the tool is suspected to be damaged or exposed to external damage, for example after it has been dropped, check the insulation resistance between the tip of the tool and the fastener where the torque wrench connects using the *Insulation Multimeter 2 779 227*.
- Always follow the instructions in the Workshop Manual and TI 16-25 01 14.

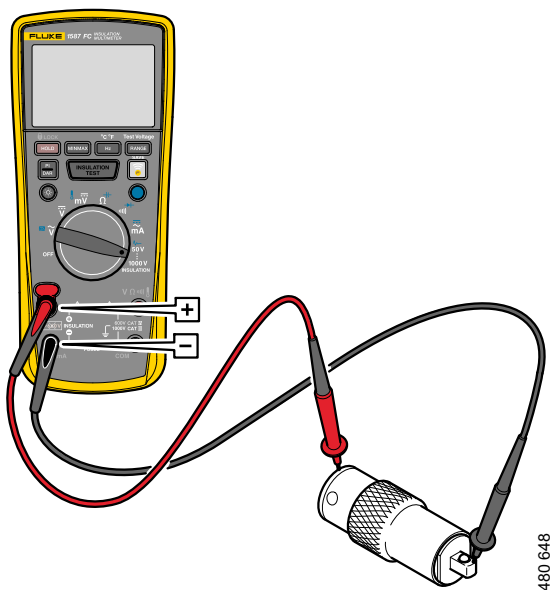
## Assembling and checking the tool

The tool consists of 4 parts and must not be used if any of these parts are damaged or missing. The tool is assembled as follows:

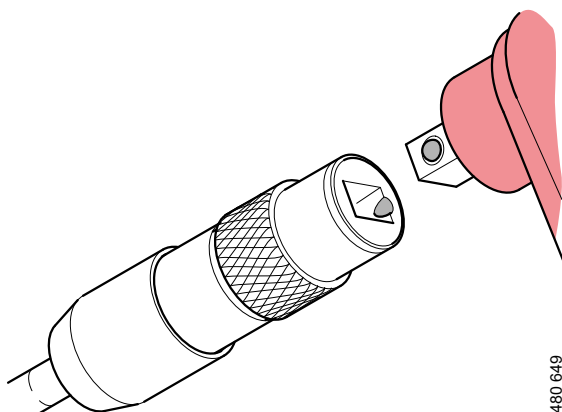
1. Put the inner collar (2) on the adapter (1).
2. Fasten the T30 sleeve to the adapter (3).
  1. Note that the T30 sleeve only has 2 positions where the ball in the adapter can lock the sleeve in place. See illustration below. To verify that the sleeve is in the correct position, try pulling the sleeve away from the adapter
  2. If the sleeve does not lock in place, rotate the sleeve 90° and try again.
3. Screw the outer collar (4) onto the inner collar (2) to cover the transition between the adapter and the T30 sleeve (3).
  - Note that the collar has a left-hand thread.
4. Attach the tool to the torque wrench.
  - There is only one position in the torque wrench where the tool is securely attached.



*Assembly order and numbering of components*



*Insulation test of adapter with insulation body*



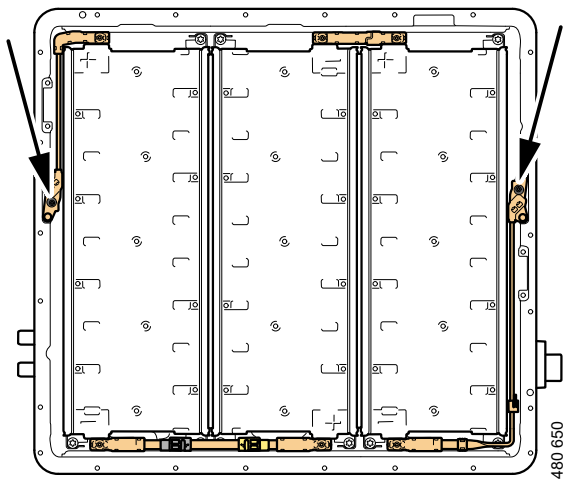
Position where the torque wrench and tools lock securely.

Note that the side of the adapter that has a cut-out to make it easier to insert the lock ball should be on the *opposite* side to the lock ball.

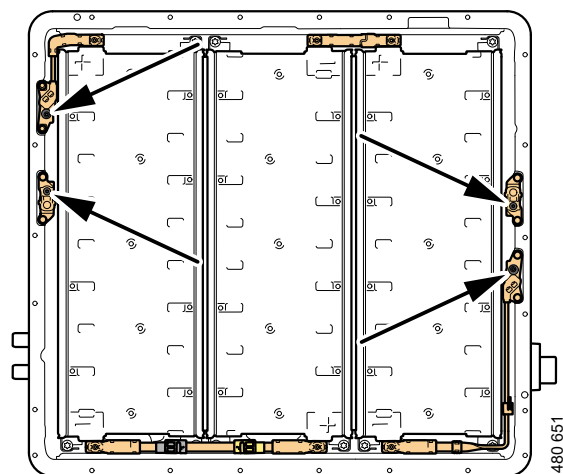


## Illustrations where the tool may be used

Layer 4:



Layer 3:



Layer 2:

