



[TECHNICAL / INSTRUCTION / 29.2100.20.1143](#)

## INSTALLATION INSTRUCTIONS FOR FUEL KIT 29.2180.01.0565\*

**\*Please note:** This fuel kit is designed for use with Airtronic S2 (D2), Airtronic M2 (D4), and Hydronic HS3. Please check that all components meet the requirements of the intended installation. Contact your nearest dealer for advice on alternative components required for Ax1 and Ax3 installations.

These instructions provide details for the following installations:

- Ford Transit / Custom OEM Fuel Tank Auxiliary Take-Off (pages 2 & 3)
- Ford Transit / Custom OEM Fuel Sender Unit Take-Off (pages 4 & 5)
- Mercedes Sprinter 2018 OEM Fuel Sender Unit Take-Off (pages 6 & 7)

# FORD TRANSIT / CUSTOM OEM FUEL TANK AUXILIARY TAKE-OFF

Please read these instructions from start to finish before commencing with the installation process.

**If in doubt, contact Eberspächer UK Technical Support for assistance.**

The kit is supplied with 6 metres of fuel line, which is assembled as per drawing 29.2100.20.1142. The fuel line and protective conduit (also supplied) will need to be cut to length according to the heater installation, as follows:

Airtronic S2 (D2):	5 metres (maximum)
Airtronic M2 (D4):	2 metres (maximum)
Hydronic HS3:	2 metres (maximum)

1. Lower the fuel tank to access the auxiliary fuel port (figure 2).
2. Cut the tip off the fuel port (see figure 3) and deburr. This will open the fuel port accordingly.
3. The take-off kit requires assembly with the correct length of fuel line protruding from the in-line connector (as detailed in figure 4). This length is determined by the make and model of the vehicle for which the kit was designed. If you are using the kit for anything other than a Ford Transit/Connect, please ensure that you check for the correct length based on the vehicle manufacturer guidelines. Length can be adjusted by loosening the clip (see figure 4) however care must be taken to ensure that the fuel line does not touch the bottom of the tank and the clip must be re-tightened to 1.0Nm (-0/+0.2) once the correct length is established. **If in doubt, contact Eberspächer UK Technical Support for assistance.**

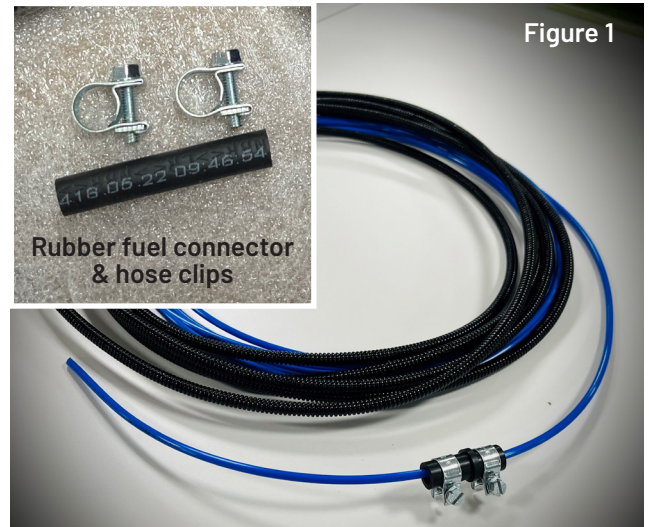


Figure 1

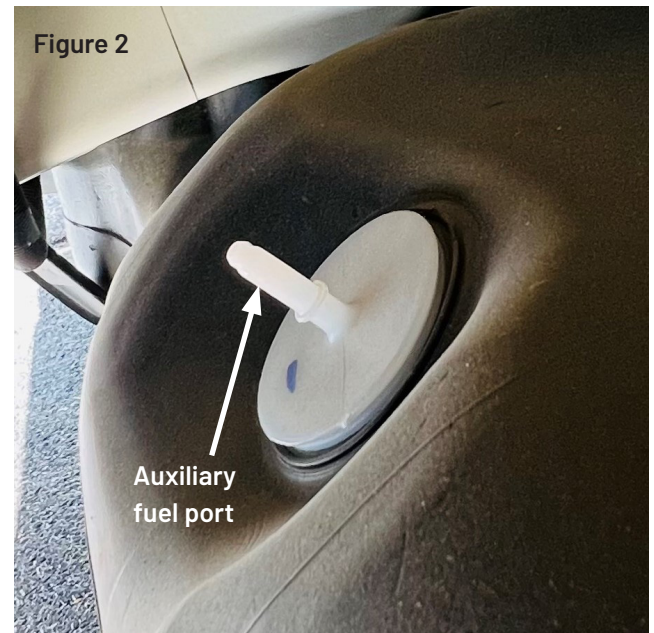
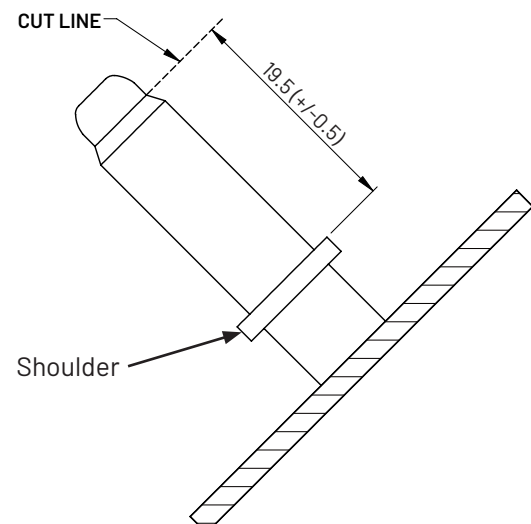
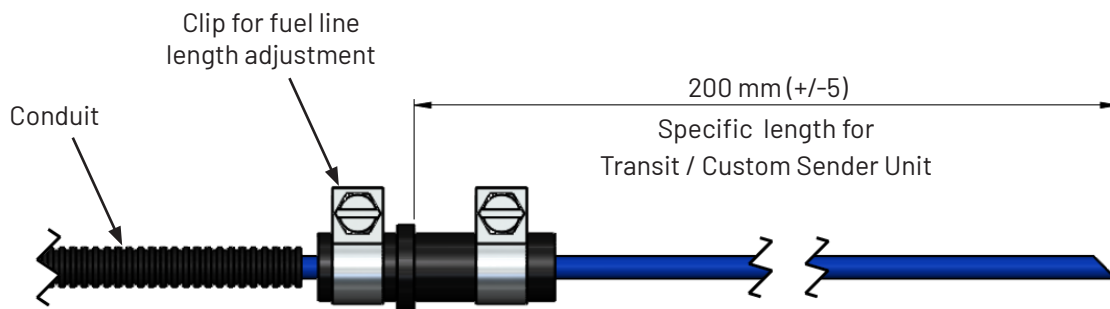


Figure 2

Figure 3

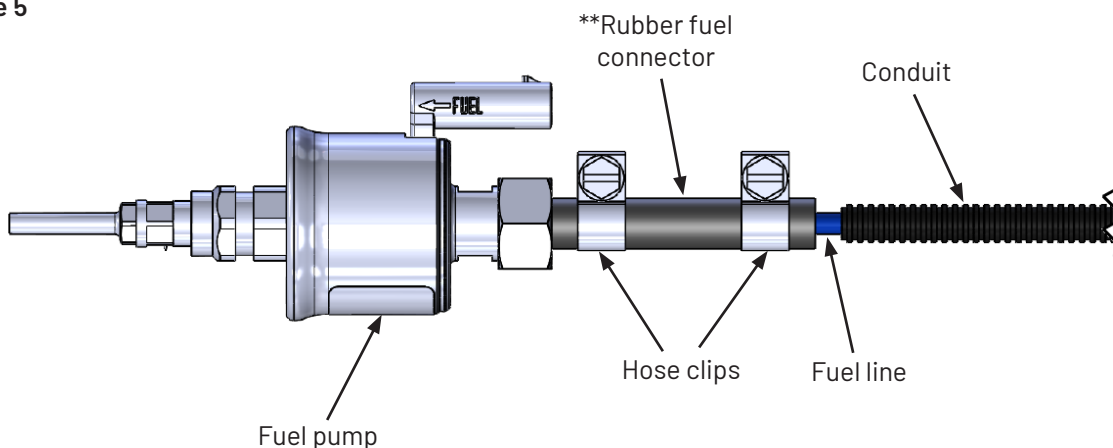


**Figure 4**



4. Insert the fuel line into the open auxiliary fuel port. Ensure that the fuel line is straight when fitting, or that any curvature is angled downwards, towards the bottom of the tank. Push the rubber connector fully onto the fuel port until it touches the shoulder near the base of the port (figure 3). Position the clip 5mm (+/-1mm) from the shoulder. When fitted correctly, the rubber connector should not easily slide off the fuel port. Tighten the clip to 1.0Nm (-0/+0.2) to prevent this from happening. Check by pulling firmly on the rubber connector and tighten further if necessary.
5. Cut the fuel line and conduit to the desired length (according to heater installation). Ensure there are no kinks in the fuel line and that the conduit fully protects the fuel line from potential damage / fretting.
6. Attach the fuel line to the fuel metering pump using the rubber fuel connector provided (see figure 5). Ensure both the pump spigot and the fuel line are fully inserted and butted together. Recommended torque setting for hose clips is 1.0Nm (-0/+0.2). Ensure there are no kinks in the fuel line and that the conduit fully protects the fuel line from potential damage / fretting.

**Figure 5**



*\*\*Rubber fuel connector - check compatibility with intended heater / fuel pump installation.*

**If in doubt, contact Eberspächer UK Technical Support for assistance.**

## FORD TRANSIT / CUSTOM OEM FUEL SENDER UNIT TAKE-OFF

Please read these instructions from start to finish before commencing with the installation process. **If in doubt, contact Eberspächer UK Technical Support for assistance.**

The kit is supplied with 6 metres of fuel line, which is assembled as per drawing 29.2100.20.1142. The fuel line and protective conduit (also supplied) will need to be cut to length according to the heater installation, as follows:

Airtronic S2 (D2):	5 metres (maximum)
Airtronic M2 (D4):	2 metres (maximum)
Hydronic HS3:	2 metres (maximum)

1. Lower the fuel tank to access the sender unit fuel port (figure 7 & 8). Remove the sender unit from the tank in order to complete the following process.
2. Cut the tip off the fuel port (see figure 7) and deburr. This will open the fuel port accordingly.
3. The take-off kit requires assembly, with the correct length of fuel line protruding from the rubber fuel port connector (as detailed in figure 9). This length is determined by the make and model of the vehicle for which the kit was designed. If you are using the kit for anything other than a Ford Transit/Connect, please ensure that you check for the correct length based on the vehicle manufacturer guidelines. Length can be adjusted by loosening the clip, however care must be taken to ensure that the fuel line does not touch the bottom of the tank and the clip must be re-tightened to 1.0Nm (-0/+0.2) once the correct length is established. **If in doubt, contact Eberspächer UK Technical Support for assistance.**



Figure 6

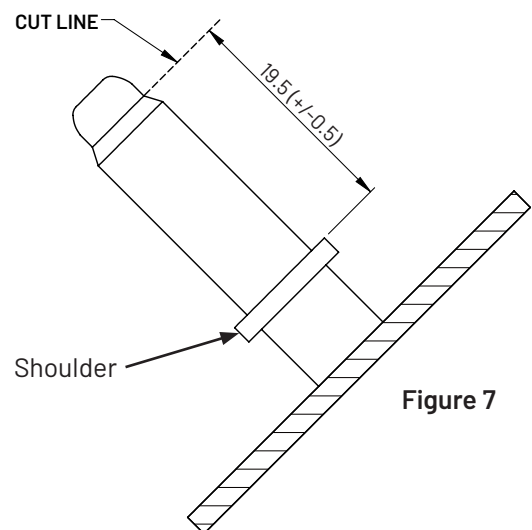


Figure 7

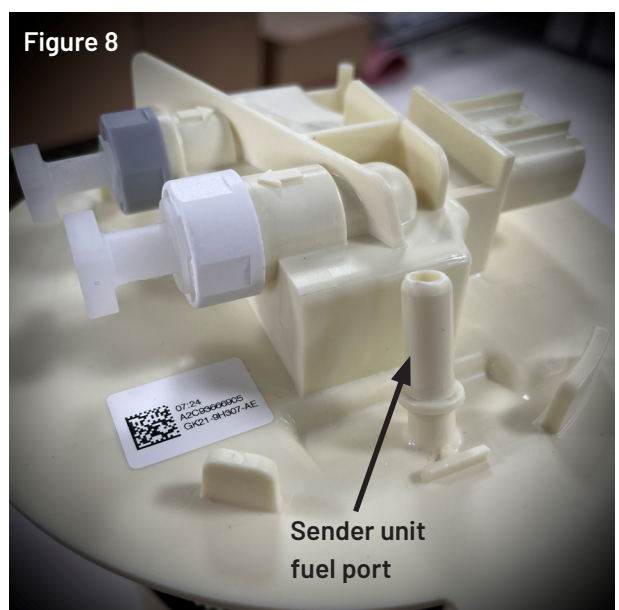
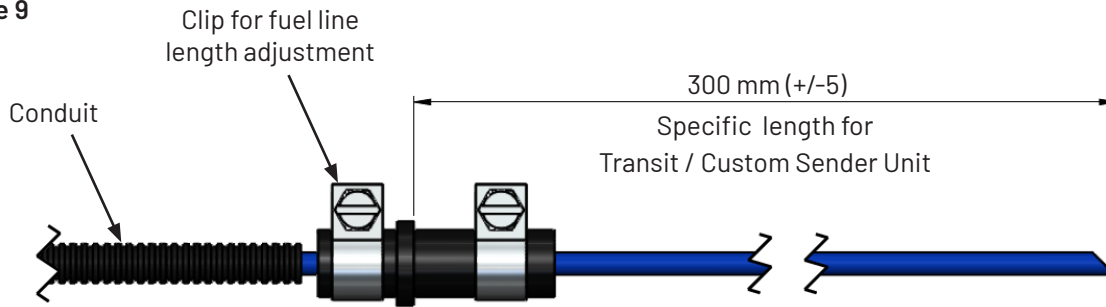
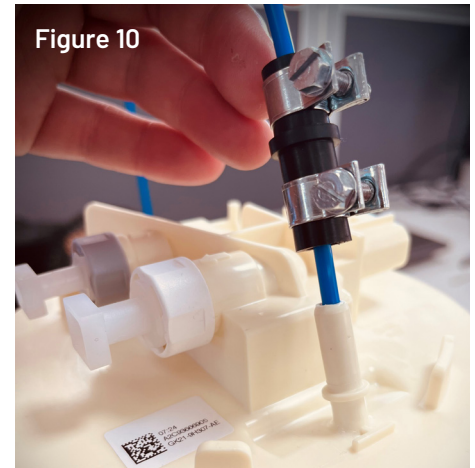


Figure 8

Sender unit  
fuel port

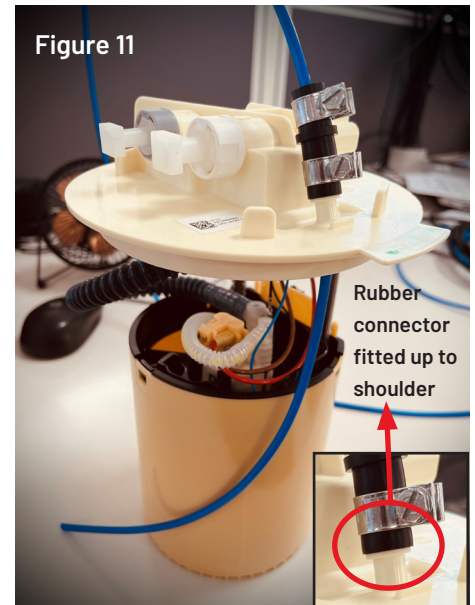
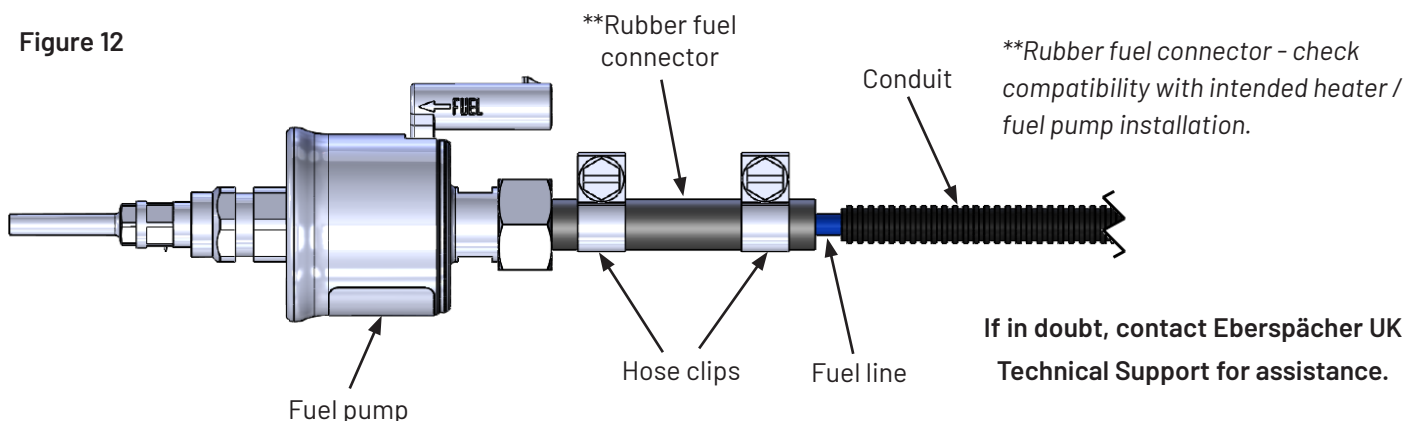
**Figure 9**


4. Insert the fuel line into the open sender unit fuel port (figure 10). Ensure that the fuel line is straight when fitting, or that any curvature is angled downwards, on the outside of the sender unit, away from the float gauge. Push the rubber connector fully onto the fuel port until it touches the shoulder near the base of the port (figure 11). Position the clip 5mm (+/-1mm) from the shoulder. When fitted correctly, the rubber connector should not easily slide off the fuel port. Tighten the clip to 1.0Nm (-0/+0.2) to prevent this from happening. Check by pulling firmly on the rubber connector and tighten further if necessary.



5. At the pump connection end, cut the fuel line and conduit to the desired length (according to heater installation). Ensure there are no kinks in the fuel line and that the conduit fully protects the fuel line from potential damage / fretting.

6. Attach the fuel line to the fuel metering pump using the rubber fuel connector provided (see figure 12). Ensure both the pump spigot and the fuel line are fully inserted and butted together. Recommended torque setting for hose clips is 1.0Nm (-0/+0.2). Ensure there are no kinks in the fuel line and that the conduit fully protects the fuel line from potential damage / fretting.


**Figure 12**


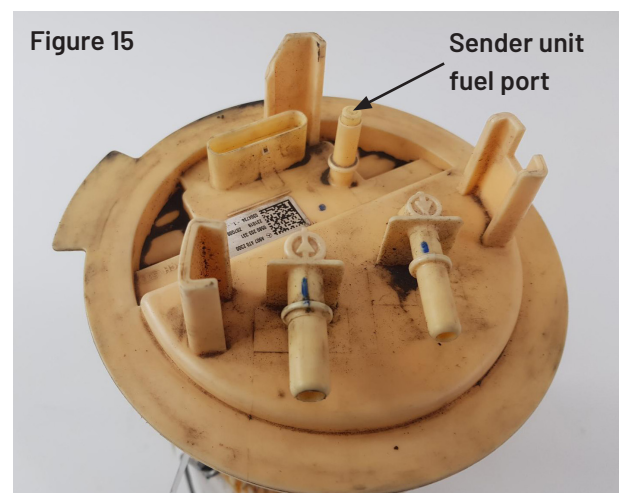
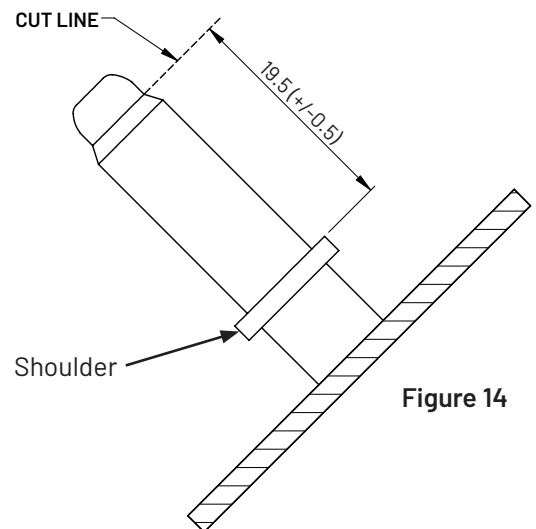
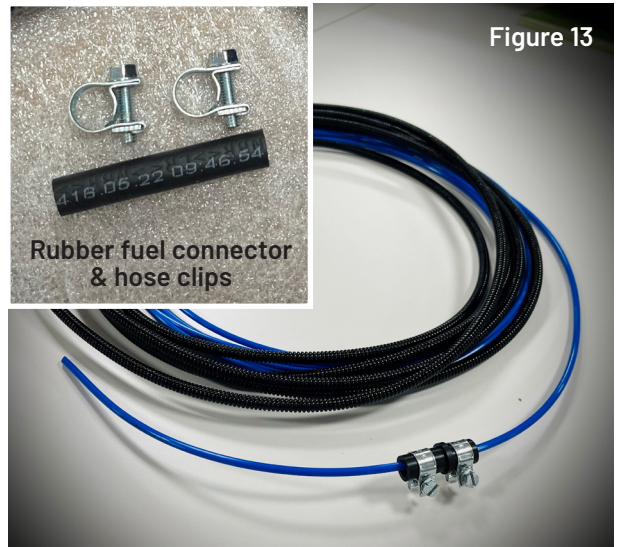
## MERCEDES SPRINTER 2018 OEM FUEL SENDER UNIT TAKE-OFF

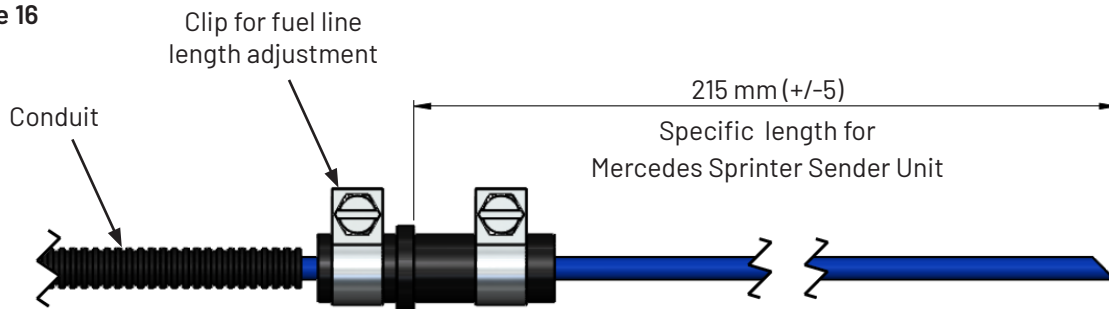
Please read these instructions from start to finish before commencing with the installation process. **If in doubt, contact Eberspächer UK Technical Support for assistance.**

The kit is supplied with 6 metres of fuel line, which is assembled as per drawing 29.2100.20.1142. The fuel line and protective conduit (also supplied) will need to be cut to length according to the heater installation, as follows:

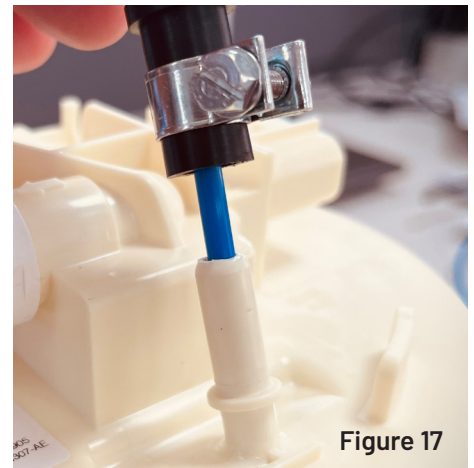
Airtronic S2 (D2):	5 metres (maximum)
Airtronic M2 (D4):	2 metres (maximum)
Hydronic HS3:	2 metres (maximum)

1. Lower the fuel tank to access the sender unit fuel port (figure 14 & 15). Remove the sender unit from the tank in order to complete the following process.
2. Cut the tip off the fuel port (see figure 14) and deburr. This will open the fuel port accordingly.
3. The take-off kit requires assembly, with the correct length of fuel line protruding from the rubber fuel port connector (as detailed in figure 16). This length is determined by the make and model of the vehicle for which the kit was designed. If you are using the kit for anything other than a Mercedes Sprinter 2018, please ensure that you check for the correct length based on the vehicle manufacturer guidelines. Length can be adjusted by loosening the clip, however care must be taken to ensure that the fuel line does not touch the bottom of the tank and the clip must be re-tightened to 1.0Nm (-0/+0.2) once the correct length is established. **If in doubt, contact Eberspächer UK Technical Support for assistance.**



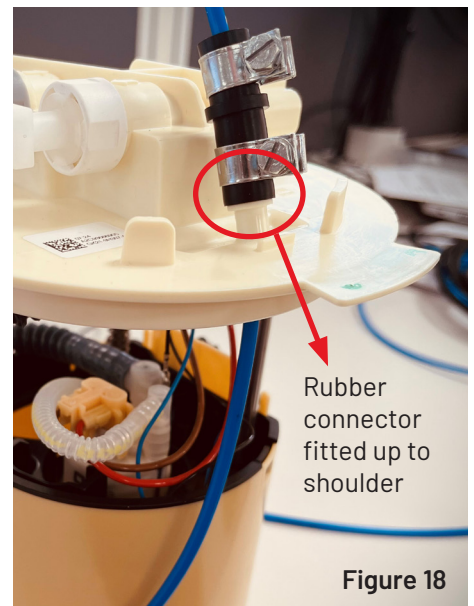
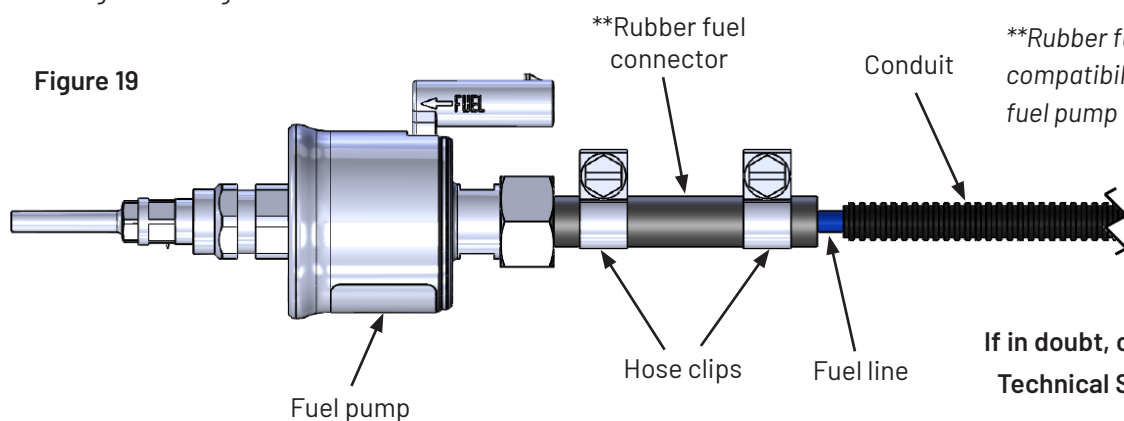
**Figure 16**


4. Insert the fuel line into the open sender unit fuel port (figure 17\*\*). Ensure that the fuel line is straight when fitting, or that any curvature is angled downwards, on the outside of the sender unit, away from the float gauge. Push the rubber connector fully onto the fuel port until it touches the shoulder near the base of the port (figure 18\*\*). Position the clip 5mm (+/-1mm) from the shoulder. When fitted correctly, the rubber connector should not easily slide off the fuel port. Tighten the clip to 1.0Nm (-0/+0.2) to prevent this from happening. Check by pulling firmly on the rubber connector and tighten further if necessary. \*\*Figure 17 & 18 are for representation only and do not accurately depict the actual sender unit for which this assembly process applies.





**Figure 17**

5. At the pump connection end, cut the fuel line and conduit to the desired length (according to heater installation). Ensure there are no kinks in the fuel line and that the conduit fully protects the fuel line from potential damage / fretting.

6. Attach the fuel line to the fuel metering pump using the rubber fuel connector provided (see figure 19). Ensure both the pump spigot and the fuel line are fully inserted and butted together. Recommended torque setting for hose clips is 1.0Nm (-0/+0.2). Ensure there are no kinks in the fuel line and that the conduit fully protects the fuel line from potential damage / fretting.


**Figure 18**
**Figure 19**


**If in doubt, contact Eberspächer UK Technical Support for assistance.**

Revision	Description of updates	Checked by	Approved by	Date
A	First Issue	-	-	-
B	Instruction updated to include 3 different installation variants.	Shaun Amor	Keith Phelps-Burry	06 Jan 2023
C	Updated to remove references to in-line Raymond connector. Details added regarding use of alternative rubber connector for Ax1 and Ax3 installations.			27.07.2023
D	Include drawing 29.2100.20.1142 (B) to document			20.03.2025



This publication was correct at the time of going to print, however Eberspächer UK have a policy of continuous improvement and reserve the right to amend any specifications without prior notice.

