



TANK SENSOR LOOSENING WRENCH UNI

Manual

61600000



PICHLER
tools since 1978.

SAFETY NOTICE

To understand the functioning of the tools, is it necessary to read the manual first!

- > Read these instructions before assembling, during installation and throughout use and in the proper sequence
- > Always refer to the OEM manufacturer's instructions and service manuals for the latest data and to maintain the correct sequence
- > These work instructions and the recommended tools are meant to serve as aids only and are by no means a guarantee for certain results.
- > This tool kit is a special collection and it has been tested and used successfully on several occasions. It is of the utmost importance to maintain the correct procedure as per the instructions
- > The use of the tools should only be carried out by qualified personnel!



ATTENTION

Special caution



CORRECT



LIGHT BULB

Hint or recommendation



WRONG



SAFETY GOGGLES

Wearing safety goggles
necessary



TANK SENSOR LOOSENING WRENCH UNI

Part-Nr. 61600000

Nr.	PART.-NR.	Description	61600000
1	61600003	Complete axle bolt	3
2	61600002	Axle mounting block complete	3
3	61600001	Mounting disk	1
4	61600004	Foot insert holder complete	3
5	61600007	Foot insert II complete	3
6	61600006	Foot insert I rotatable and reversible	3
7	61600008	Reversible insert tip	3
8	151.2042	Angled pin wrench 2 mm	1
9	51610400	Hexagonal screwdriver with T-handle	1
10	89139201	Cylinder head screw ISK with flange M5x12	9

**CLICK HERE
FOR THE VIDEO!**



PREPARATION

Disconnect and remove all parts that could hinder work, e.g. wiring harness or fuel lines. Make the area around the tank sensor accessible enough so that the tool and tank sensor can be attached/removed and installed without any problems. If necessary, the tank must be separated from the vehicle and removed for this purpose.

1. DETERMINATION OF THE APPROPRIATE FOOT INSERT

The universal release wrench **61600000** can be used on four different tank sensor locking types. However, the appropriate foot insert must be selected for each type of locking mechanism.

Locking type 1

Plastic union nut with internal thread and longitudinal ribs on the outer diameter:

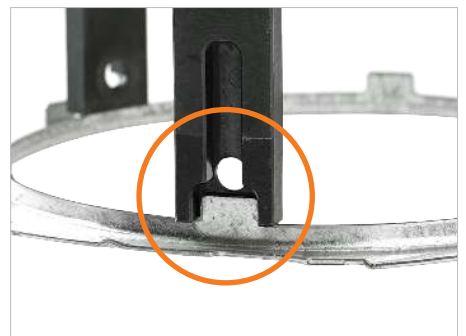
The foot insert **61600006** is required for this. This can be used reversibly, depending on the width of the lengthwise bar.



Locking type 2

Metal ring with upward-facing mounting bars:

The foot insert **61600006** is required for this. This is used so that the wider groove points towards the tank sensor.



Locking type 3

Metal ring with groove recess on the outer diameter:

The foot insert **5 61600007** is required for this.



Locking type 4

Metal ring with holes on the plane surface:

This requires the foot insert **5 61600007** and the insert tip **7 61600008**. The insert tip **7** is reversible and can be inserted and clamped into the foot insert **5** at both ends.

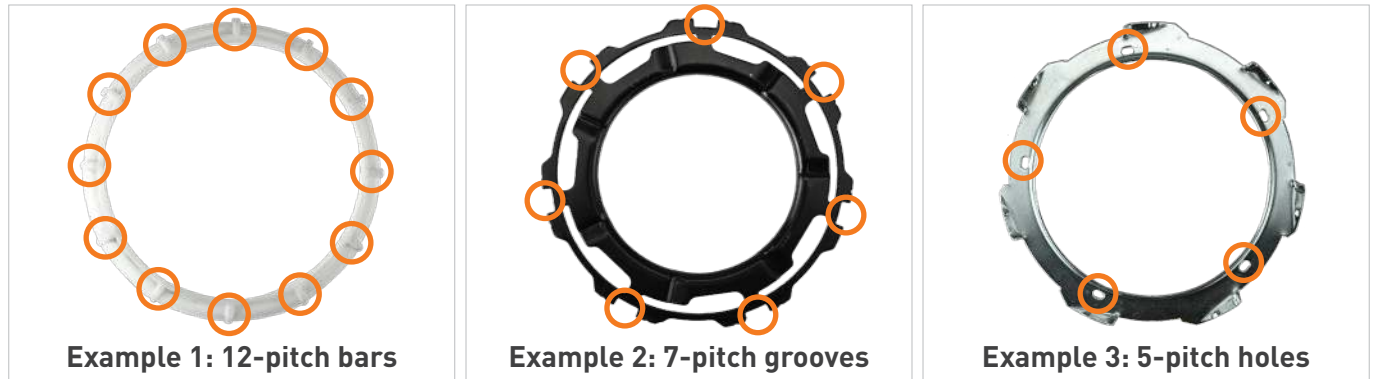


It is recommended to always use the maximum possible diameter of the insert tip.



2. DETERMINATION OF THE ITEMS TO BE USED OF THE AXLE MOUNTING BLOCKS 61600002 WITH AXLE BOLT 61600003 IN THE MOUNTING DISK 61600001:

To do this, the number of bars, grooves or holes on the tank sensor locking ring must be counted. Here are some examples of how to proceed:



According to the number of evenly and symmetrically arranged bars, grooves or holes (= pitch) counted on the tank sensor locking ring, use the table to determine the appropriate holes in the mounting disk **3 61600001**. Then fit the axle mounting blocks **2 61600002** with axle bolts **1 61600003** in the holes provided in the mounting disk **3 61600001** using screw **10 89139201** and wrench **9 51610400**.

Division	Drill hole
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	5
12	3
14	7
15	3
16	4
18	3
20	4
21	7
22	2
24	3



BRIEFLY EXPLAINED:



1. count the bars, grooves or holes
2. mount **2 + 1** on the mounting disk **3** using the table

MOUNTING THE SELECTED FOOT INSERT ON THE FOOT INSERT HOLDER 61600004:

Here, the foot insert already selected is screwed to the foot insert holder 4 61600004 using screw 10 89139201 and wrench 9 51610400.



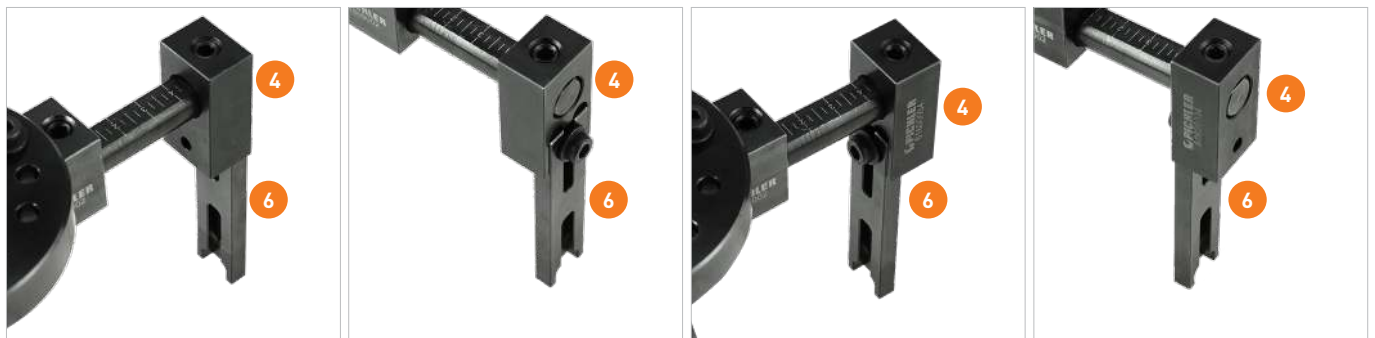
ATTENTION

The foot insert 6 61600006 can be screwed to the foot insert holder 4 61600004 in different ways depending on the type of application.



MOUNTING THE FOOT INSERT HOLDER 61600004 WITH THE FOOT INSERT ALREADY MOUNTED ON THE AXLE BOLT 61600003:

Again, depending on the type of application, the foot insert holder 4 61600004 can be mounted on the axle bolt 1 61600003 in several ways with the foot insert already fitted.



SETTING THE APPROPRIATE DIAMETER

The respective diameter can be set either by moving the axle bolt ① in the axle mounting block ② or by moving the foot insert holder ④ on the axle bolt ①. ① **61600003** in the axle mounting block ② **61600002** or by moving the foot insert holder ④ **61600004** on the axle bolt ① **61600003**. To do this, the grub screw in the parts axle mounting block ② **61600002** or foot insert holder ④ **61600004** must be loosened.



TIP

For easier handling, tighten the respective grub screw slightly by hand on the axle bolt ① **61600003** after loosening. This prevents the axle mounting block ② **61600002** and foot insert mount ④ **61600004** on the axle bolt ① **61600003** from “unscrewing”. To use the function of the dimension scale on axle bolt ① **61600003**, it is important that the axle mounting block ② **61600002** and the foot insert mount ④ **61600004** are set identically to the same dimension on all three arms.



For larger tank sensor locking ring diameter ranges, it is advisable to position the respective foot insert holders ④ **61600004** aligned with the end of the axle bolts ① **61600003**.



A simple and effective way of symmetrically adjusting the respective arms is to first extend all three correctly pre-assembled arms to their maximum length. In this state, the tank sensor locking ring wrench is then positioned with the locating disk ③ **61600001** centrally over the tank sensor locking ring to be released/closed. Now all three arms can be positioned on the tank sensor locking ring in turn. Also check the dimensional scale on the axle bolt ① **61600003**. Then tighten all screw connections using the wrench ② **51610400**.

Position in the center



1st arm attached



2nd arm attached



3rd arm attached



The respective tank sensor locking ring can then be loosened or tightened by applying torque to the hexagon (SW24) of the mounting disk **3 61600001**.



TIP

If a higher torque is required during the loosening process (especially with type 1 tank sensor locking rings), it is often helpful to turn the wrench 45° to 90° and reattach it to the tank sensor locking ring and start the loosening process again.



RECOMMENDED ACCESSORIES

COMBINATION WRENCH SW 24
WITH FINE TOOTHING

7034240



FUEL LINE RELEASE PLIERS

60504200



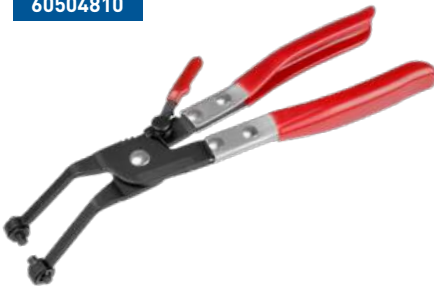
PLUG-IN CABLE CONNECTOR RELEASE
PLIERS, 270° ADJUSTABLE

60504805



PLUG-IN CABLE CONNECTOR RELEASE
PLIERS, 45° BENT

60504810



PLUG-IN CABLE CONNECTOR RELEASE
PLIERS, WITH BOWDEN CABLE

60504820



FUEL SYSTEM VENTING KIT UNI I

9011860



HAND SUCTION PUMP SET 5 PCS.

9011870



FUEL SYSTEM VENTING KIT UNI II

9011880



ANALOG PRESSURE TESTER FOR ADBLUE,
FUEL AND COOLING SYSTEMS

90959560



ADBLUE PRESSURE GAUGE SET 2 PCS.

61915430





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