

LEVELO

[Station]



LEVELO STATION

Dear Customers

Thank you for choosing our company's LEVELO Bicycle Repair Station.

This product documentation explains how to assemble, use and maintain our bicycle repair station. All our products are subjected to a function and quality test before they leave our factory. If however you experience any problems with this product, please feel free to contact our customer service department.

It is essential that this product is assembled in accordance with these instructions. Modifications to the product or improper use may affect product safety, function and service life!



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LEVELO STATIONINFORMATION

SAFETY INSTRUCTIONS

Veyhl GmbH does not accept liability in the event of LEVELO being improperly handled.

The LEVELO bicycle repair station must be installed and functionality checked through qualified personnel.

It is essential that you read and observe these instructions before assembling and maintaining the bicycle repair station.

Be sure to read the additional safety instructions in the assembly instructions.

Caution! Crushing hazard could occur during assembly or maintenance.

Children must not play with the LEVELO bicycle repair station.

Modifications to the bicycle repair station or its components are prohibited.

Veyhl GmbH accepts no liability in the event of improper handling of LEVELO products.

WARRANTY

For our bicycle repair station we provide a 12 month warranty. The warranty covers all material and production defects and is valid from the production date (see type plate, located behind the upper front casing (6)).

The warranty is only valid on condition that this product has been properly and professionally assembled and installed and within the described parameters by trained personnel, that maintenance has been carried out correctly and that repairs have only been carried out using original Veyhl parts.

The product must not be operated or used improperly and without modifications, otherwise warranty and guarantee claims will be lost.

For further information, please refer to our General Terms and Conditions.

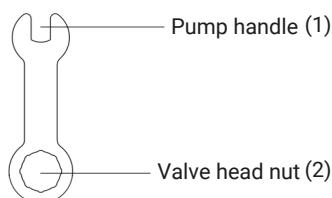


LEVELO STATIONPRODUCT INFORMATION

COMPONENT DESCRIPTION

Tools

1 x Veyhl Tool

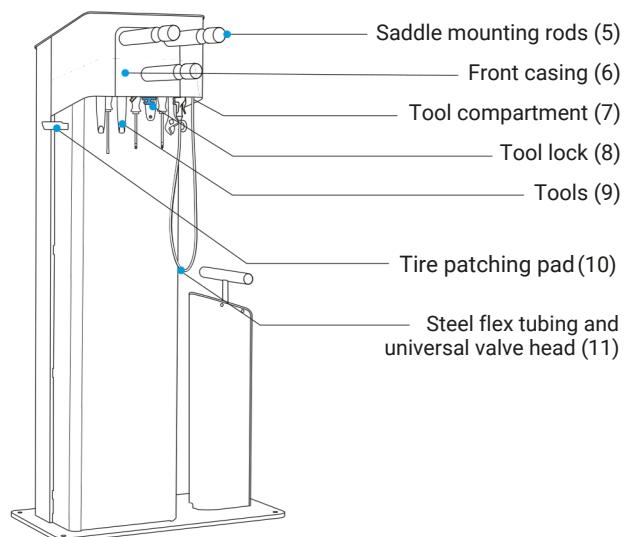


1 x safety bit (4)

TX with hole
C 6,3 (1/4)



Operator side



Back

Back cover (12)

Helmet holder (13)

Inner corpus (14)

Pump handle (15)

Manometer (16)

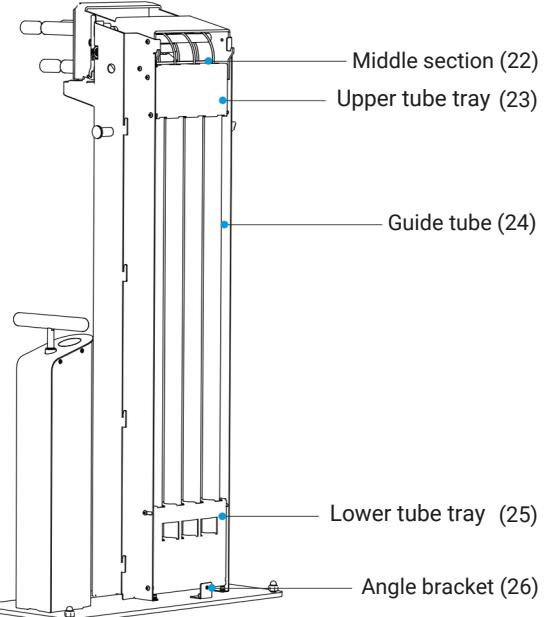
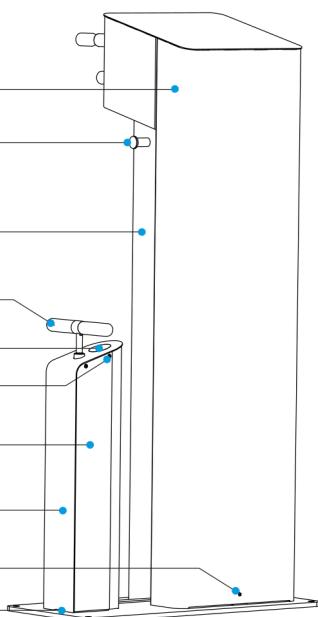
Safety screw (17)

Housing half (18)

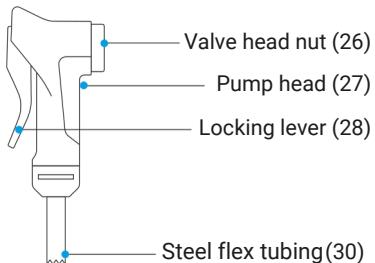
Air pump casing (19)

Safety screw (20)

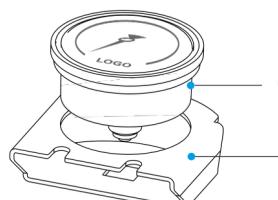
Mounting slot (21)



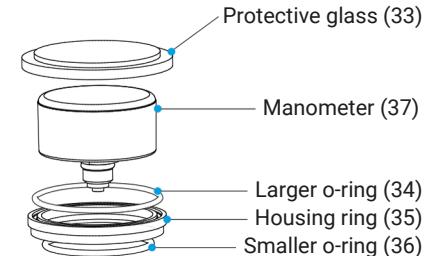
Valve head



Manometer holder



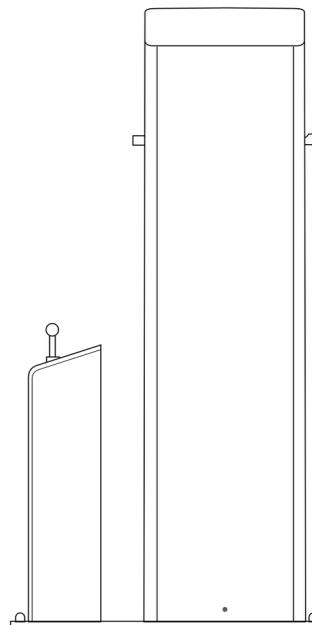
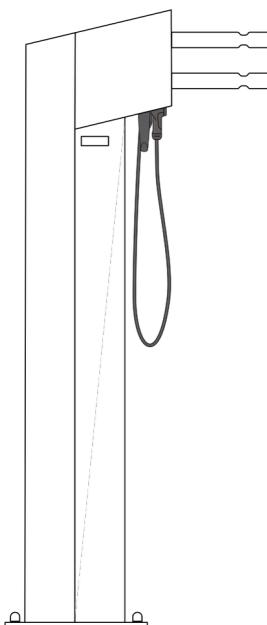
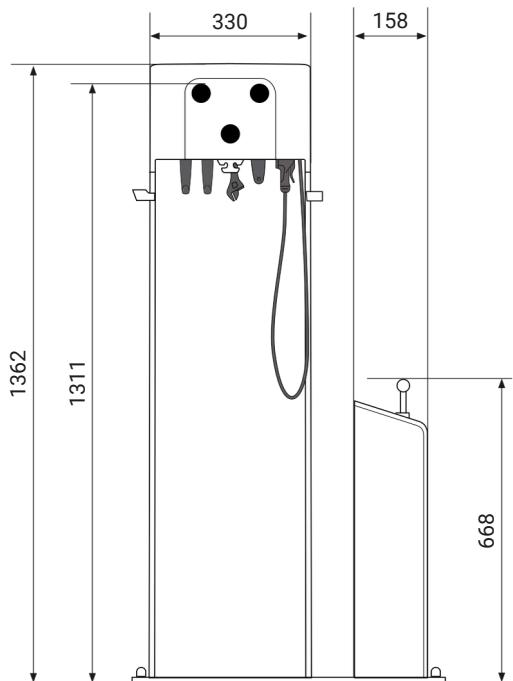
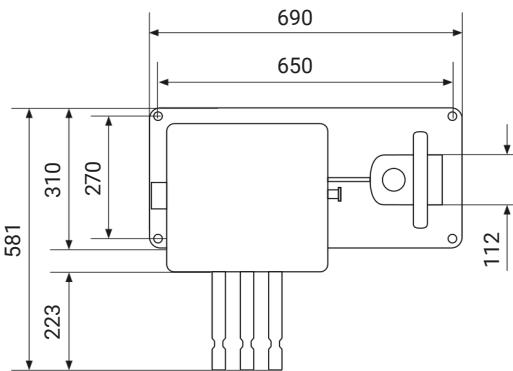
Manometer Set



LEVELO STATIONPRODUCT INFORMATION

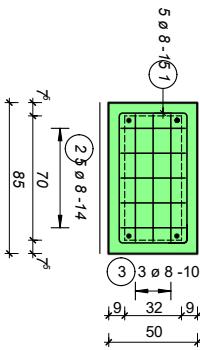
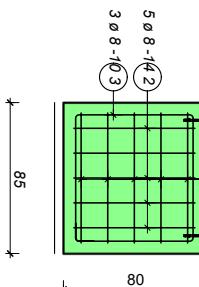
TECHNICAL DATA

Dimensions	581 x 690 x 1362 mm	Tools	Tire levers
Weight	74 kg	Adjustable open-end wrench	2 pcs.
Material	Stainless steel	Fold Up hexagon	Max. key width 19,2 mm
Coating	Outdoor powder coat	Phillips screwdriver	2,5 - 8 mm
Air Pump		Slotted screwdriver	NO.1
Pump	Outdoor public bike pump, V2A stainless steel, vandalism safe and frost proof	Torx screwdriver	5 mm
Tire pressure	0-10 bar	Spoke wrenches	T25
Pump head	Universal valve head (Presta, Schrader, Dunlop)	Brake pad opener	G14, G15
Pump tubing	Vandalism-resistant, with steel braided core	Bottle opener	
Manometer	Yes		



LEVELO STATION PRODUCT INFORMATION

FOUNDATION PLAN

VIEW M1:25						CUT M1:25		Stabliste - Biegeformen																																																																																	
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Draufsicht M 1:25

BEACHTEN:

Antforderungen an den Beton in Abhängigkeit von den Umgebungsbedingungen:
Frost, ohne Raummittel: C25/30, XC4, XF¹, bewittert, Frost, mit Raummittel: C30/37(LP), XC4, XF4, XD-5

A NOTER:

Requirements for the concrete depending on the environmental conditions:
weathered, frost, without de-icing agents: C25/30, XC4, XF1
weathered, frost, with de-icing agent: C30/37(LP), XC4, XF4, XD

LEVELO STATIONASSEMBLY INSTRUCTIONS

RECOMMENDED TOOLS

- Hammer drill
- 12 mm concrete drill bit
- Suitable hammer
- 19 mm open-end wrench
- Two people

SAFETY INSTRUCTIONS

Minimum distances to public roads must be maintained in accordance with applicable legal requirements.

All necessary approvals must be obtained e.g. excavation approvals, building applications and traffic regulations.

The minimum requirements for the foundation (see foundation plan) must be adhered to and statically calculated in case of deviations.

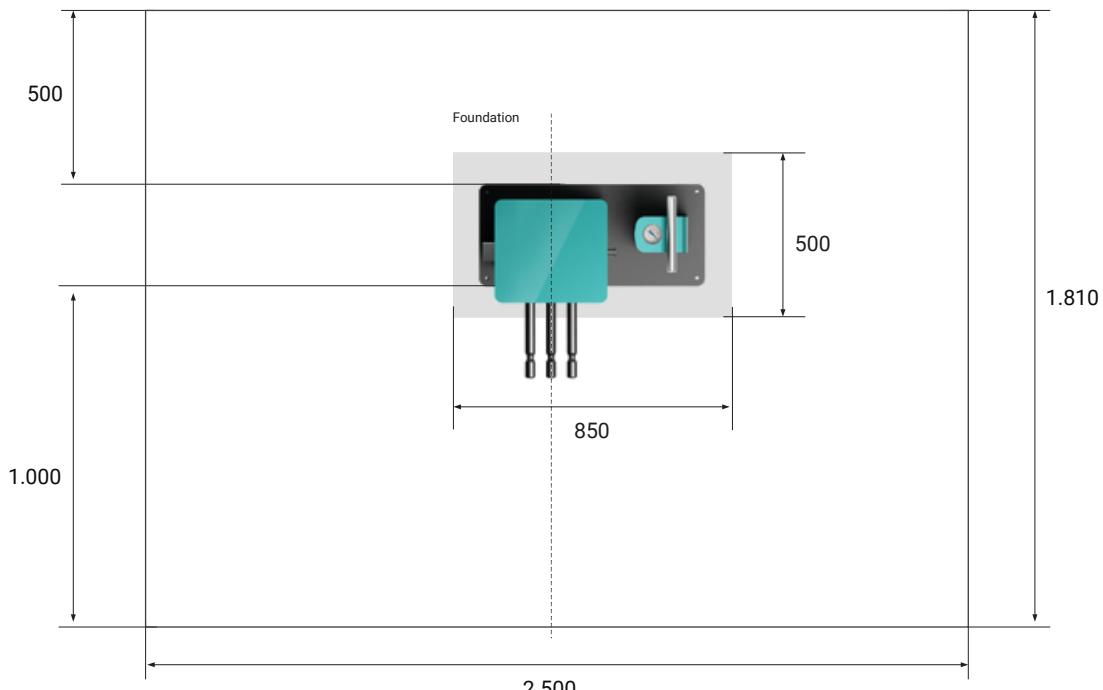
The bicycle repair station may only be installed on a level surface by trained personnel. Make sure to install the station in set up in a well-lit area.

Use only the supplied bolt anchors, washers and associated hexagon nuts.

Optionally available:
Anti-theft nuts including special tool

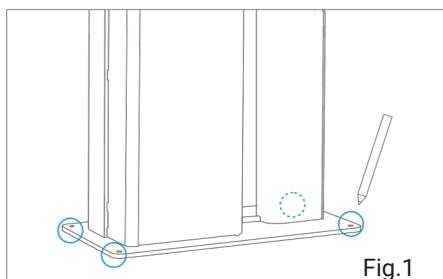


POSITIONING PLAN (SUGGESTION)



LEVELO STATIONASSEMBLY INSTRUCTIONS

ASSEMBLY STEPS



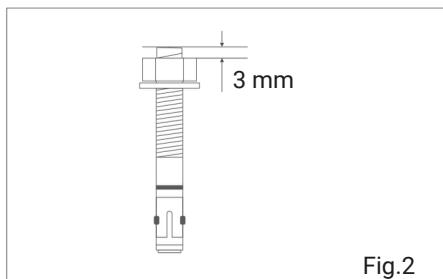
1 Remove the supplied assembly components from the overall packaging. The assembly components include four bolt anchors, four washers, four hexagon nuts and four cap nuts. Alternatively: Two anti-theft nuts including special tool.

! Caution, danger of tipping over! The station should be secured by a second person.

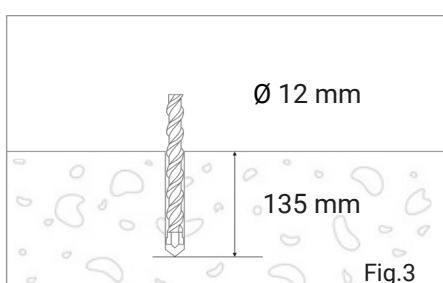
2 Position the bicycle repair station on the prepared foundation and draw the drill holes using a waterproof pen (Fig. 1).

! Caution: The supplied bolt anchors are only suitable for cracked or non-cracked C20/25 to C50/60 concrete. Should the surface differ, an alternative fixating solution must be calculated by a structural engineer. Please also observe the manufacturer's specifications.

3 Before assembling, place the hexagon nuts into the optimum position by pre-assembling the bolt anchor, washer and hexagon nut. The impact pin protrudes 3 mm from the hexagon nut (Fig. 2).



4 Drill 135 mm deep into the foundation with a 12 mm concrete drill bit in the center of each of the four markings (Fig. 3). Then remove all dust and drilling particles from the hole.



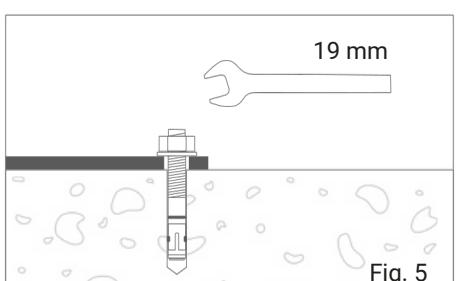
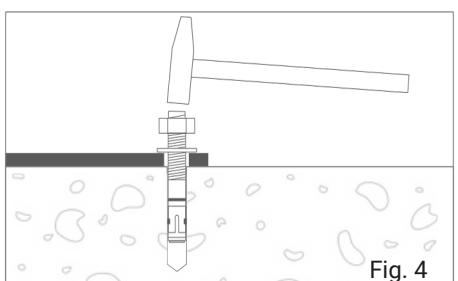
5 Now place the bicycle repair station on the prepared foundation. The holes in the mounting plate and in the foundation must be congruent.

6 Now take the prepared bolt anchors, insert them into the holes and hit each impact pin with a few hammer blows (Fig. 4) until the underside of the hexagon nut almost touches the washer resting on the mounting plate of the bicycle repair station.

! If you are using the optional anti-theft nut, please refer to step 8 before proceeding.

7 Now tighten the hexagon nuts with the 19 mm open-end wrench to a torque of 60 Nm (Newton meters). This pulls the conical bolt into the expansion clip and braces it against the borehole wall (Fig. 5).

You should use the diagonally opposite nut as the second nut. Additionally, you can also screw the four nut caps onto the bolts.



8 If you use the optionally available anti-theft nuts, remove two hexagon nuts before step (7). You should use the diagonally opposite nuts. Screw on the anti-theft nuts instead. Use the special tool to tighten the anti-theft nut to 60 Nm.

LEVELO STATIONFUNCTIONS

BIKE MOUNT



Saddle post

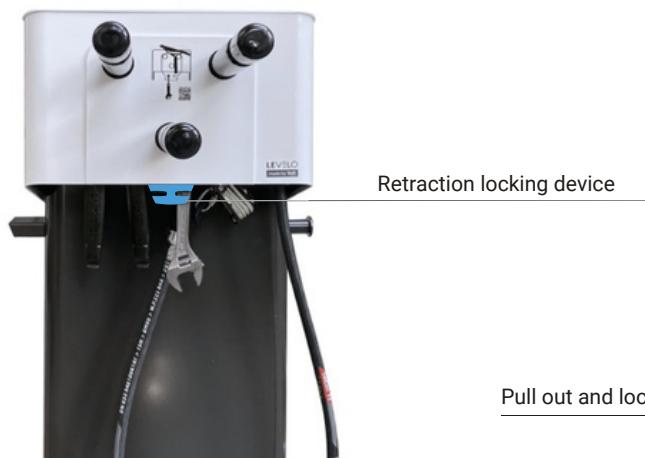


Saddle top



Top tube

TOOL RETRACTION

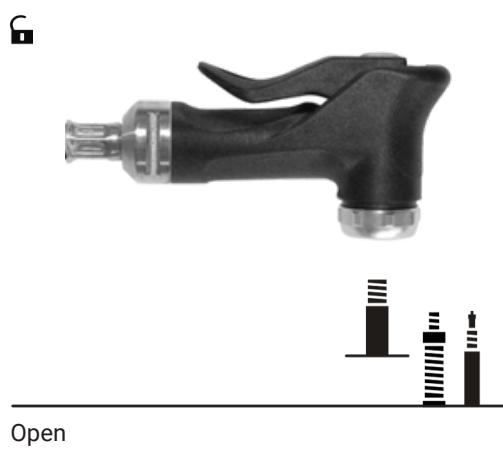


Retraction locking device



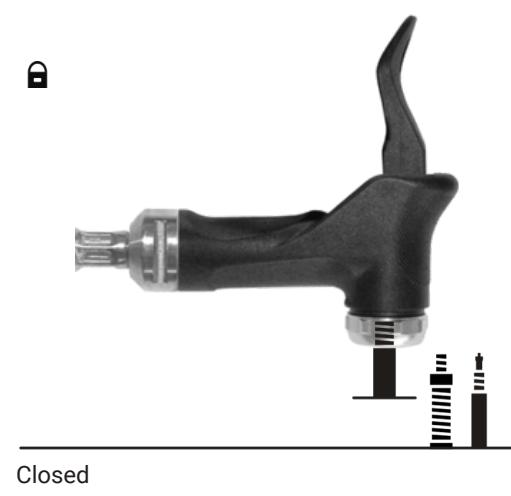
Pull out and lock tool

PUMP HEAD



Open

Schrader, Presta, Dunlop



Closed

LEVELO STATIONMAINTENANCE

MAINTENANCE INTERVALS

Air Pump

	Frequency	Required time	Required tools	Spare part set
Replace pump head	If defect	5 minutes	screwdriver	• Pump head incl. pump tube Art. Nr.: 1700703920
Replace valve head washer	Depending on frequency of use, every six months or if defect	2 minutes	Veyhl Tool (2)	• Valve head washer Art. Nr.: 1700703930
Pressure gauge unit	If defect	30 minutes	Veyhl Tool (1), safety bit (4), slotted screwdriver, open-end wrench 10 and 17 mm	• Pressure gauge unit Art.Nr.: 1700703660
Protective glass	If defect	30 minutes	Veyhl Tool (1), safety bit (4), slotted screwdriver, open-end wrench 10 and 17 mm	• Protective glass Art. Nr.: 1700703650
Pump tube, metal coated	If defect	5 minutes	screwdriver	• Pump head incl. pump tube Art. Nr.: 1700703920

Tools

Clean tools	Every 2 months	10 minutes	Clean cloth, "WD-40", suitable cleaning detergent	
Replace tools	As required	30 minutes	Safety bit (4), open-end wrench 10 mm, Allen wrench 3 and 4 mm	<ul style="list-style-type: none"> • Open-end wrench Art. Nr.: 1700703810 • Allen wrench set Art. Nr.: 1700703820 • Torx screwdriver Art. Nr.: 1700703830 • Slotted screwdriver Art. Nr.: 1700703840 • Phillips screwdriver Art. Nr.: 1700703850 • Tire lever Art. Nr.: 1700703860 • Pump head cable Art. Nr.: 1700703870
Clean steel cables	As required	10 minutes	Clean cloth, suitable cleaning detergent	

Complete Station

Cleaning	As required	10 minutes	Clean cloth, suitable cleaning detergent	
Check screws	Every 3 months	2 minutes	Safety bit (4), open-end wrench 19 mm Alternative: Special tool for anti-theft nuts	
Check surfaces	Every 3 months	2 minutes	Visual inspection	
Replace saddle support bolts	If defect	30 minutes	Safety bit (4), open-end wrench 10 mm, Allen wrench 6 mm	<ul style="list-style-type: none"> • Saddle mount Art. Nr.: 1700703610

LEVELO STATIONMAINTENANCE -AIR PUMP

REPLACING THE VALVE HEAD WASHER

- 1 Loosen the valve head nut (26) with the Veyhl tool (2) and replace the old valve head washer with the new one from the valve head washer spare parts set (Fig. 6). Then hand-tighten the valve head nut with the Veyhl tool.

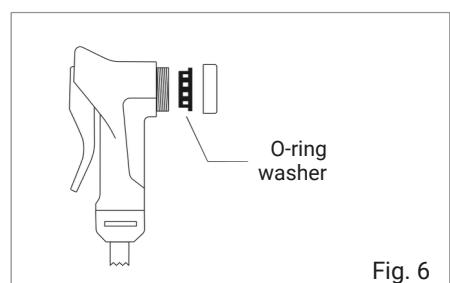


Fig. 6

REPLACING THE MANOMETER UNIT AND/OR PROTECTIVE GLASS

- 1 To replace the complete manometer (31) or protective glass (33), you need the Veyhl Tool (1) and the manometer or protective glass spare parts set. First unscrew the pump handle (15). There are two notches for this directly under the handle on the bolt of the air pump. Hold the bolt with the Veyhl tool and unscrew the handle with your free hand (Fig. 7).
- 2 Then loosen the four M4 Torx safety screws (17) on the anthracite-colored housing half (18) using the appropriate safety bit (4) (Fig. 8).
- 3 There is a shallow slot at the bottom of the air pump casing (19). Carefully insert a slotted screwdriver into this slot (Fig. 8). Release the plate from the lock by pushing it slightly upwards. You can then push the plate further up by hand and remove it.

! To avoid damaging the surface of the casing, please cushion the screwdriver with a cloth. When pushing up the air pump cover, make sure that you do not accidentally tear out or pinch the hoses.

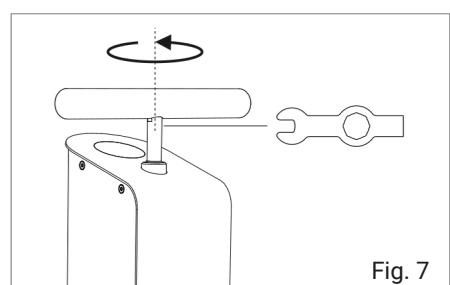


Fig. 7

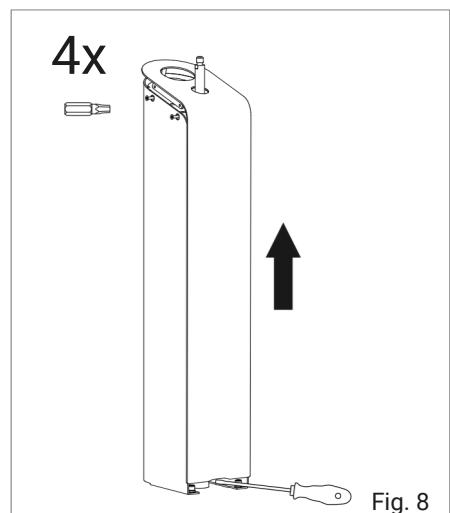


Fig. 8

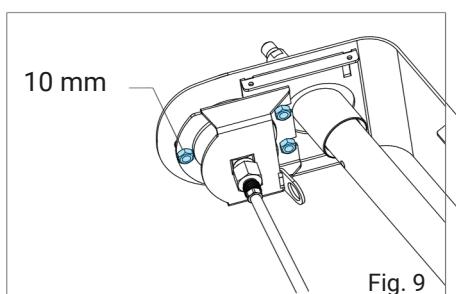


Fig. 9

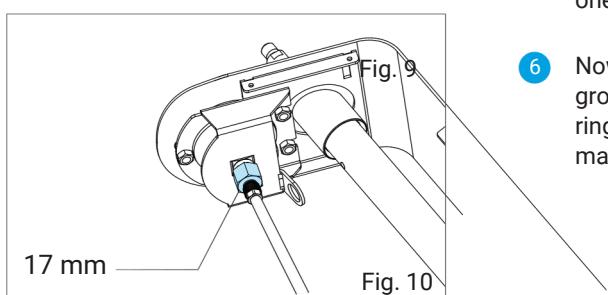


Fig. 10

Replacing the manometer

- 4 When replacing the manometer (31), you must first unscrew the manometer holder (32) from the air pump casing (19). You will need a 10 mm open-end wrench for the three nuts (Fig. 9).
- 5 Then use a 17 mm open-end wrench to loosen the screw-on fitting directly under the manometer at the tube attachment (Fig. 10).

! Caution! When removing the nuts, hold the manometer holder tightly with one hand.

- 6 Now install the new manometer (31) by placing the larger O-ring (34) in the groove of the new housing ring (35) at the top, placing the slightly smaller O-ring (36) in the manometer holder from below and sliding both over the new manometer from below (Fig. 11).

LEVELO STATIONMAINTENANCE -AIR PUMP

7 Remove the old manometer from the manometer holder and replace it with the prepared new unit.

Make sure that you insert the manometer in the correct way. The manometer logo must be on the straight side of the manometer holder (Fig. 12). Now place the new protective glass (33) on the housing ring. The smaller diameter of the protective glass must be at the top. Continue with step 9 - Mounting the manometer.

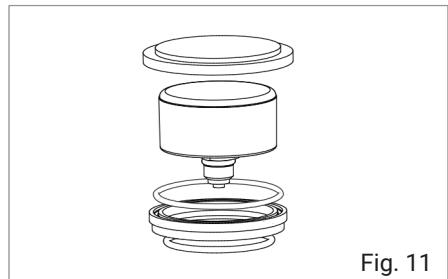


Fig. 11

Replacing the protective glass

8 When replacing the protective glass (33), you only need to unscrew (step 4) the manometer holder (32) from the air pump casing (19) and replace the existing protection glass with the new one. When inserting the new protective glass, make sure that the small diameter is at the top (Fig. 11).

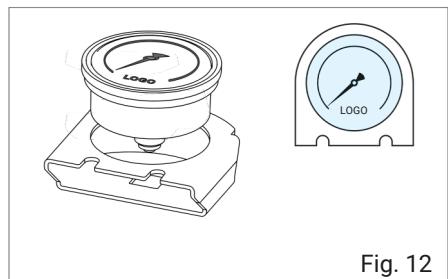


Fig. 12

Assembling the manometer

9 Fix the manometer holder and manometer using the three M6 hexagon nuts in the air pump casing. Hand-tighten the nuts using a 10 mm open-end wrench (Fig. 9).

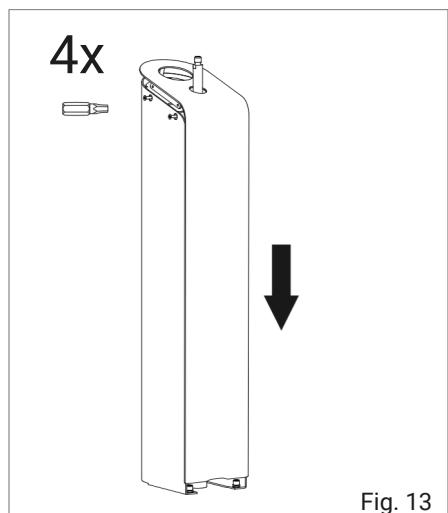


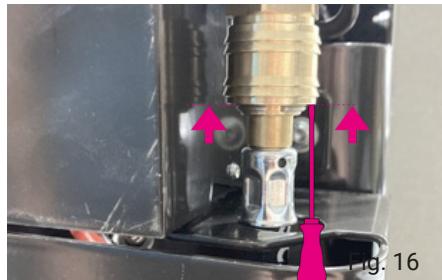
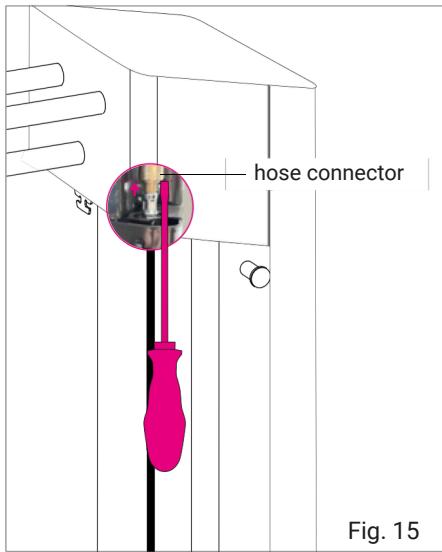
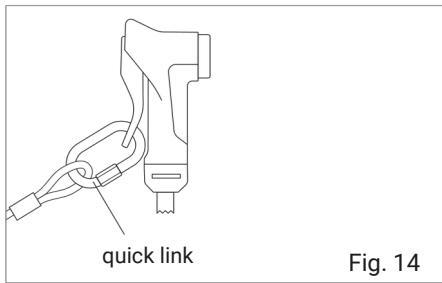
Fig. 13

10 Now connect the pump tube - if loosened - to the manometer and hand-tighten the screw-on fitting (with the 17 mm open-end wrench (Fig. 10).

11 Now you can slide the air pump casing back over the housing until it audibly clicks into place and screw the four M4 safety screws on (Fig. 13) hand tight.

12 Finally, screw the pump handle back onto the bolt of the air pump. To do this, hold the bolt with the Veyhl tool and tighten the handle with your free hand (Fig. 7).

LEVELO STATIONMAINTENANCE -AIR PUMP



PUMP HOSE REPLACEMENT

- 1 Firstly, you must detach the pump head from the quick link of the automatic tool retraction (Fig. 14). To do this, use an 8 mm open-end spanner and a pair of pliers to loosen the union nut from the emergency chain link.
- 2 Insert a narrow screwdriver directly into the outlet for the pump hose. Apply a little pressure to push the hose connector upwards (Fig. 15). This will disconnect the hose.
- 3 Then take the new hose and insert it through the cut-out mentioned in point 2 and push it upwards into the hose connector. When you hear a click, the hose is engaged.
- 4 Finally, connect the automatic tool retractor to the pump head through the quick link. Use the 8 mm open-end spanner and pliers for this. Tighten the union nut firmly!

LEVELO STATIONMAINTENANCE - TOOLS

CLEAN TOOLS

Please clean all tools in the bike repair station regularly (see table Maintenance intervals, p. 11).

- 1 Spray 'WD-40' onto a soft cloth and only use it to clean the tool bits.
- ! Ensure that 'WD-40' does not come into contact with the plastic elements.
- 2 Clean the handles and plastic elements with a pH-neutral, non-aggressive cleaning agent, as otherwise damage or colour changes may occur. If in doubt, check compatibility on a small concealed area.

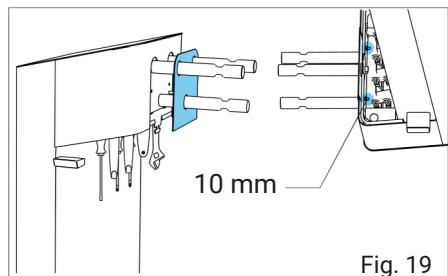


Fig. 19

REPLACE TOOLS

All tools can be exchanged/replaced separately.

- 1 First remove the upper front casing (6) in the area of the saddle mounting bolts (5). To do this, loosen the two M6 nuts inside the tool compartment (7) using a 10 mm open-end wrench (Fig. 17).
- 2 You must then remove the colored L-shaped colored back cover hood (12). To do this, loosen the M4 flat round head Torx safety screw (20) with the appropriate safety bit (4) and push the cover approx. 50 mm upwards. You can then remove the cover (Fig. 18).

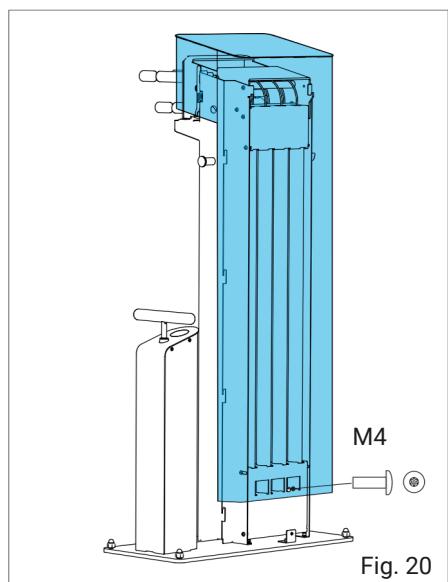


Fig. 20

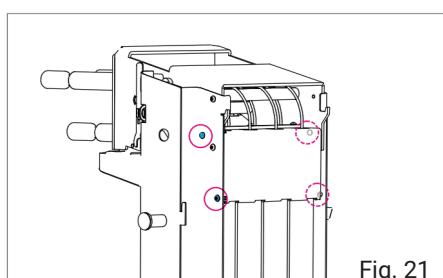


Fig. 21

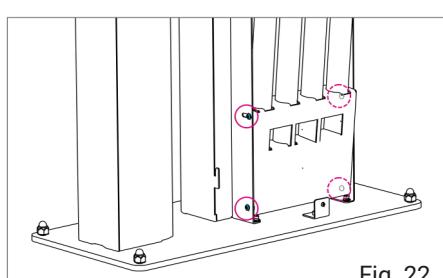


Fig. 22

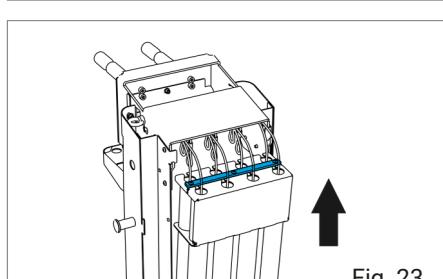


Fig. 23

- ! Make sure that the cover is placed on a soft surface to avoid possible damage to the cover or injury from tipping over.
- 3 Now pull out the tool that needs replacing on the front side up to halfway and hook the steel cable into the retraction lock (8).
- 4 Then completely unscrew the four M6 raised head screws from the upper tube tray (23) on the rear side using a 4 mm Allen key (Fig. 19) and loosen the four M6 pan head screws from the lower tube tray (25) only slightly - do not unscrew completely! - (Fig. 20). Now tilt the guide unit and guide tubes (24) out of the inner corpus.
- 5 Now loosen the three M6 pan-head screws from the middle section (22) and push the upper tube pan approx. 50 mm upwards. Make sure that the guide tubes still remain in the guide of the tube pan. Now you have direct access to the guide tubes (Fig. 21).
- 6 Decide which tool (9) you wish to replace and pull the steel cable with the weight completely out of the guide tube. Use a 3 mm Allen key to loosen the headless screws from the weight thereby pulling the steel cable out of the weight (Fig. 22). Put the weight aside.
- 7 Now go to the front side. Release the tool from the retraction lock and pull it completely out of the bicycle repair station together with the steel cable.

LEVELO STATIONMAINTENANCE - TOOLS

8 Take the new tool and thread the steel cable inside the tool compartment (7) from under the tool cover (Fig. 23). Guide the steel cable over the two guide tubes. Make absolutely sure that you take exactly the path as shown in Fig. 23 and keep to the specified position (Fig. 24). For easier handling, you can now hook the steel cable into the tool retraction on the front side.

9 Attach the weight again to the end of the steel cable. Hand-tighten the grub screw using a 3 mm Allen key.

! Make sure that the steel cable is aligned with the weight at the bottom and that you use the exactly defined number of weights (see table 'Number of tools'). If you have two weights on the steel cable, make sure that the weights are aligned (Fig. 25).

10 Then carefully slide the weights one after the other into the respective empty guide tube. Proceed in the same way with all tools that require replacing.

11 When you have changed all the tools, push the upper tube tray back into its initial position, tightening the middle section with the three M6 pan-head screws and tilt the entire guide unit back into the inner section of the station.

12 Screw the upper and lower tube trays hand-tight with the four M6 pan-head screws. Now take the back cover and place it from above on the inner corpus. Make sure that the fixing lugs hook into the guide notches (Fig. 26).

! Caution: Danger of injury from crushing! When the hood is correctly positioned, you can carefully push it all the way down.

13 Secure the cover with the M4 flat round head Torx safety screw (20) using the appropriate safety bit (4). Hand-tighten the screw.

14 Finally, slide the upper front casing over the saddle mounting bolts and fasten it from the inside (Fig.17) using the M6 nuts.

Position	Tools	Weights
1	Tire lever	1 x 300 g
2	Tire lever	1 x 300 g
3	Open-end wrench	1 x 600 g
4	Multi-tool	1 x 600 g
P	Pump head	1 x 600 g

Table: Number of tools

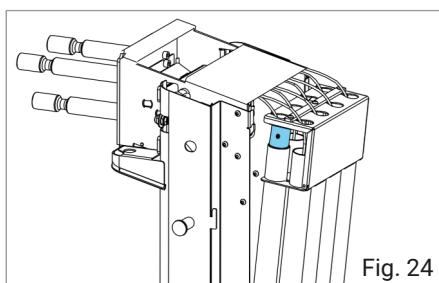


Fig. 24

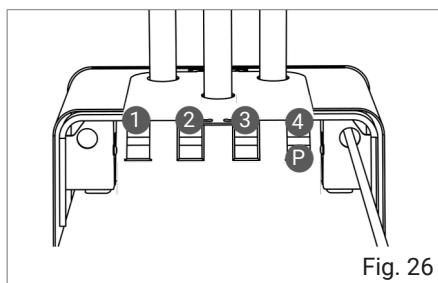


Fig. 26

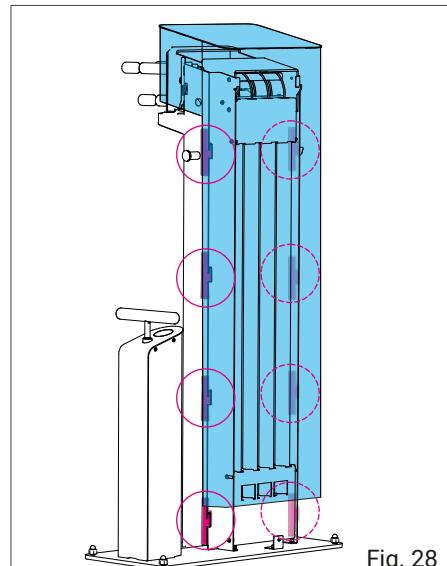


Fig. 28

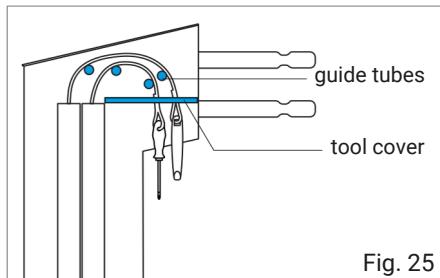


Fig. 25

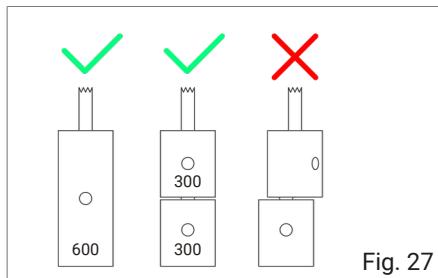


Fig. 27

LEVELO STATIONMAINTENANCE - FULL STATION

CLEAN STATION AND INSPECT SCREWS

Cleaning

Please remove dust and dirt from the protective paneling of the bicycle repair station at regular intervals (see maintenance interval table, p. 11).

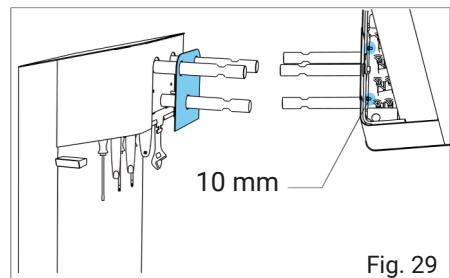


Fig. 29

- ! Make sure that you do not use any aggressive detergents, as these could cause damage or color changes. If in doubt, check the compatibility on a small, concealed area.

Screws inspection

Check the tight fit of all fastening screws and nuts at regular intervals (see maintenance interval table, p. 11).

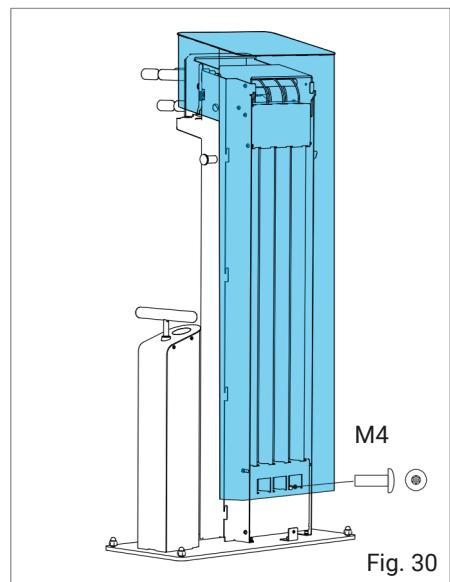


Fig. 30

CHECK AND REPLACE SADDLE MOUNT

Check Please check the surface of the saddle mounting bolts regularly for wear and/or damage to the plastic surface (see maintenance interval table). If there is excessive wear and/or deep damage to the plastic surface, you should replace the saddle mounting. For this purpose, use the saddle mounting spare parts set.

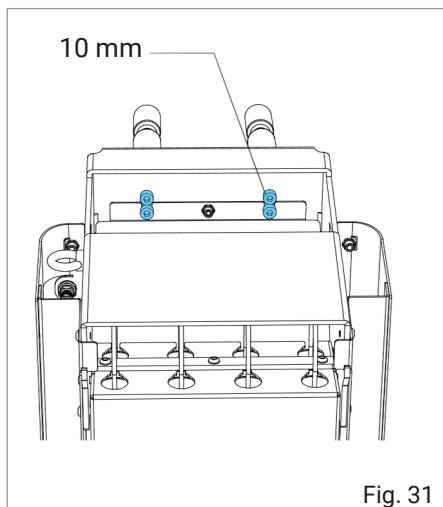
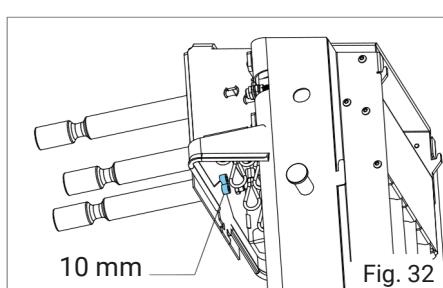


Fig. 31



Replacement

- 1 First, remove the upper front casing (6) in the area of the saddle mounting bolts (5). To do this, loosen the two M6 nuts inside the tool compartment (7) using a 10 mm open-end wrench (Fig. 27).
- 2 You must then remove the colored L-shaped back cover (12). To do this, loosen the M4 flat round head Torx safety screw (20) with the appropriate safety bit (4) and push the cover approx. 50 mm upwards. You can then remove the cover (Fig. 28).
- ! Make sure that the hood is placed on a soft surface to avoid possible damage to the hood or injury from tipping over.
- 3 You can now loosen the two micro-encapsulated M8 cylinder head screws of the saddle mounting bolts with a 6 mm Allen key. The two upper saddle mounting bolts can be loosened from above inside the station (Fig. 29). The screws of the lower saddle mounting bolt can only be loosened inside the tool compartment (7) (Fig. 30).
- ! Caution! One saddle mounting bolt weighs 1,2 kg. Secure the bolts before unscrewing them completely.

LEVELO STATIONMAINTENANCE -FULL STATION

- 4 Replace all saddle mounting bolts! Take the new bolt, place it on the outside of the station, insert the two micro-encapsulated M8 cylinder head screws through the holes and hand-tighten the bolts with a 10 mm open-end wrench. Proceed in the same way with the two other saddle mounting bolts.
- 5 Now take the back cover and place it on the inner corpus (14) from above. Make sure that the fixing lugs hook into the guide notches (Fig. 31).
- !** Caution: Danger of injury from crushing! When the cover is correctly positioned, you can carefully push it all the way down.
- 6 Secure the cover with the M4 flat round head Torx safety screw using the appropriate safety bit. Hand-tighten the screw.
- 7 Finally, slide the upper front casing over the saddle mounting bolts and fasten it with the M6 nuts from the inside (Fig. 27).

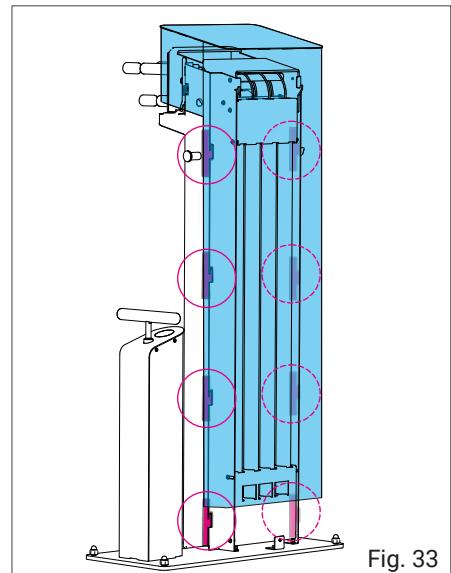
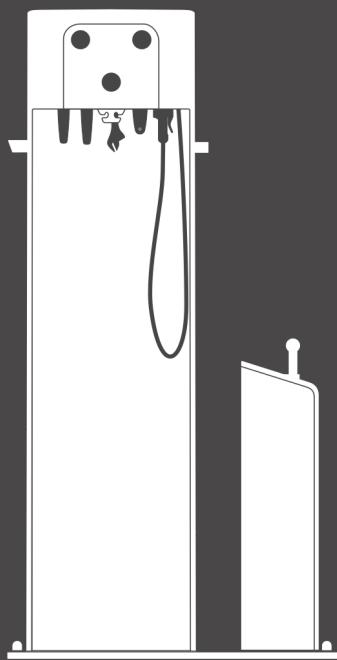


Fig. 33



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