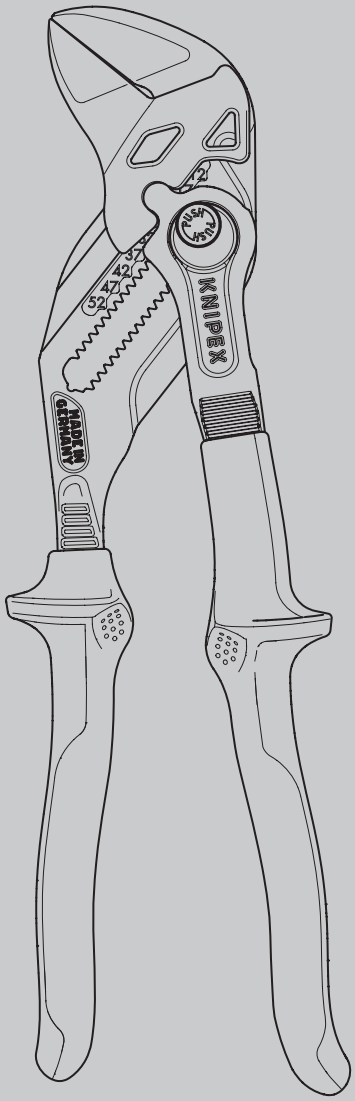
KNIPEX Quality – Made in Germany

Operating instructions

86 06 250



EN Pliers Wrench

For gripping and working with screws
as well as holding, pressing and bending workpieces

CONTENTS

1 General

1.1 Notes on operating instructions

These operating instructions are designed to enable you to use your tool safely and efficiently.
The tool may only be used if it is in technically perfect condition.
As a consequence of technical developments, the illustrations and descriptions contained in these operating instructions may differ slightly from the tool actually delivered.
We do not accept any liability for damage caused by failure to observe these operating instructions.

1.2 Symbols used

All safety instructions in these operating instructions are indicated by corresponding symbols. The signal words at the beginning of each safety instruction express the extent of the Hazard.

Danger!

Level 1 risk source

This combination of symbol and signal word indicates an imminently hazardous situation that will result in death or serious injury if not avoided.

Warning!

Level 2 risk source

This combination of symbol and signal word indicates a possibly hazardous situation that may result in death or serious injury if not avoided.

Caution!

Level 3 risk source

This combination of symbol and signal word stands for important information that will assist in preventing damage to property or the environment.

1.3 Copyright

1.4 Guarantee and warranty

The manufacturer grants a statutory warranty in accordance with the current sales and delivery conditions. No further warranties or assurances are granted.

Within the warranty period, the warranty covers the rectification of all defects that can be traced back to material faults or manufacturing errors.

Wearing parts are excluded from the warranty.

The repair or replacement of a tool shall not result in an extension of the warranty period. Tools shall only be repaired or replaced with "as new" parts, whose function corresponds to that of the old parts. All defective and hence replaced parts are the property of the manufacturer.

Warranty claims shall expire in particular if:

- Damage is caused through improper operation, use for purposes other than those specified by the manufacturer, or poor maintenance.
- Repairs or conversions are carried out by unauthorized persons.
- Original accessories or spare parts from KNIPEX are not used.
- Defective components are not repaired immediately to minimise the extent of the damage and so as not to impair the safety of the tool (obligation to repair).

For the rest, reference is made to the liability and warranty regulations of the current sales and delivery conditions.

2 Safety

2.1 Intended use

The tool is intended for the following uses:

- Infinitely variable gripping and screwing for all widths across flats – from under 6 to 52 mm (0.2 to 2 inch)
- gripping, holding, pressing and bending workpieces

The tool is insulated according to IEC 60900 and can be used up to 1000 V AC / 1500 V DC.

Any use beyond the intended purpose or any unauthorized modification shall be considered improper. The operator shall be liable for damages resulting from improper use.

Intended use also includes adhering to these operating instructions. They must be read in full before use.

Danger!

Risk to life from electrical current!

Always wear insulating gloves of the appropriate protection class when working with insulated tools.

Always wear approved face protection to protect against electric arcs when working with insulated tools.

Danger!

Risk to life from electrical current!

When working with insulated tools, never touch a non-insulated area of the tool!

2.2 Safety instructions for working with insulated tools

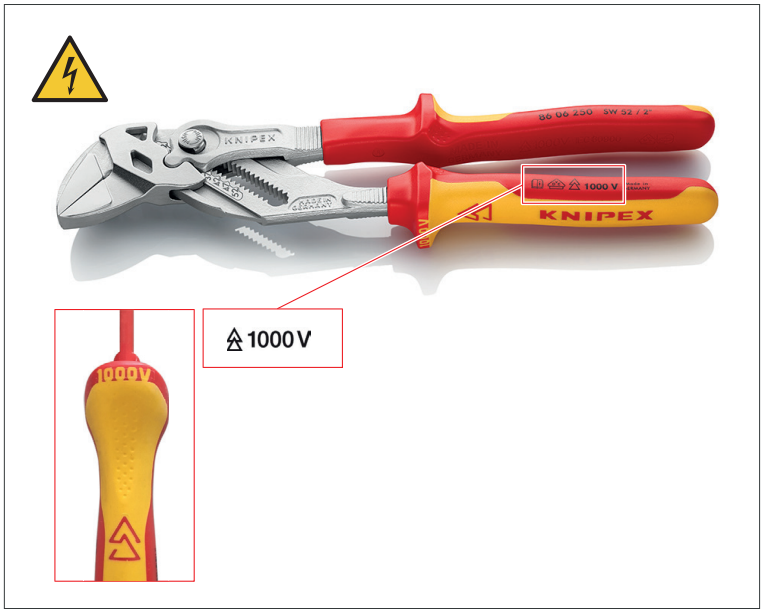
Working on or near energised electrical installations is not without risk even when using insulated tools!

Work on electrical installations may only be carried out by qualified electricians with the appropriate training.

Wear the prescribed protective clothing and equipment.

Pay attention to cleanliness and order in the workplace.

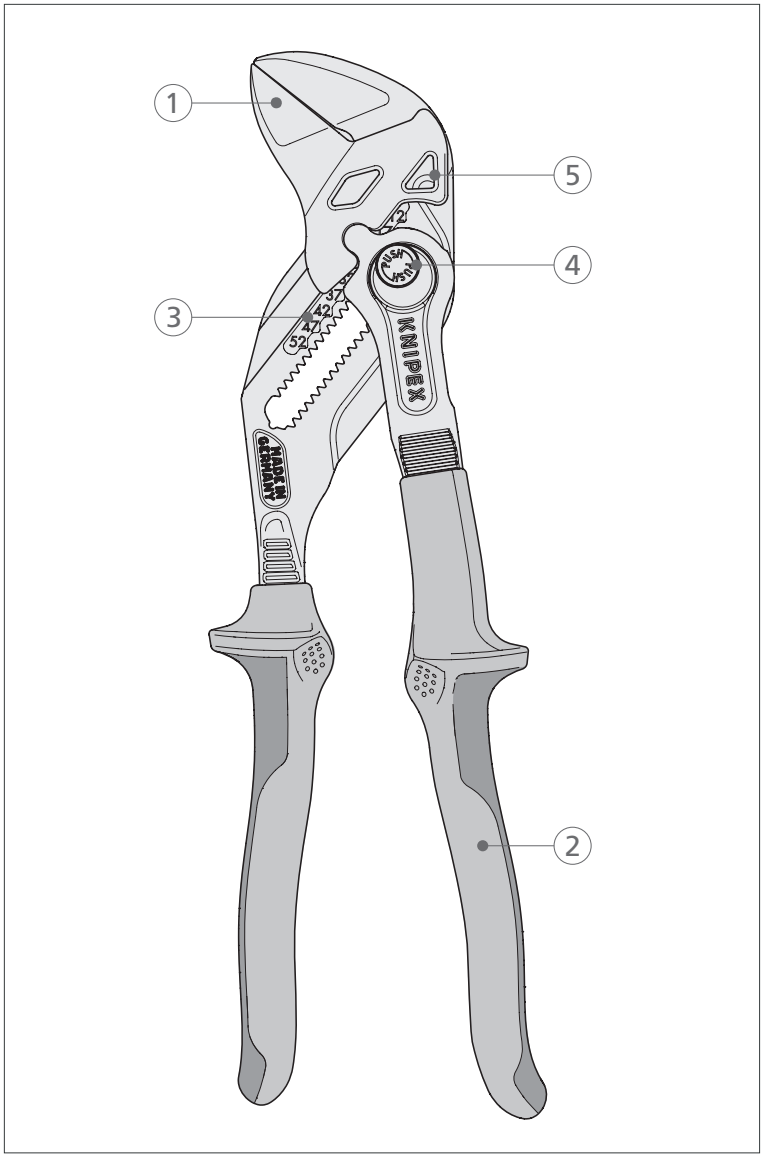
Use the right tool for the relevant application.



Tool identification 1000 V

3 Design and function

3.1 Design



Design of the pliers wrench

1 Parallel gripping jaws
2 Handles (insulated with multi-component grips, VDE-tested)
3 Lasered adjustment scale (metric and imperial)
4 Joint pin for adjusting the width across flats
5 Adjustment aid to pre-set the wrench opening

3.2 Function

The pliers wrench enables infinitely variable gripping at any width across flats from less than 6 to 52 mm (smaller than 0.2 to 2 inches) using parallel jaws.

It is also suitable for gripping, holding, pressing and bending smaller workpieces.

4 Operation

4.1 Five safety rules when working on electrical installations

1. De-energise the system.
2. Secure it to prevent it from being switched back on.
3. Verify that no current is present.
4. Earth and short circuit.
5. Cover or block off adjacent energised parts.

Danger!

Risk to life from electrical current!

When working with insulated tools, never touch a non-insulated area of the tool!

Warning!

Defective product warning!

Before each use, visually inspect the tool for cleanliness and intact insulation (for example, cuts, cracks, notches, holes, indentations or nicks).

If you see possible damage, do not use the tool under any circumstances!

4.2 Adjusting the width across flats

Danger!

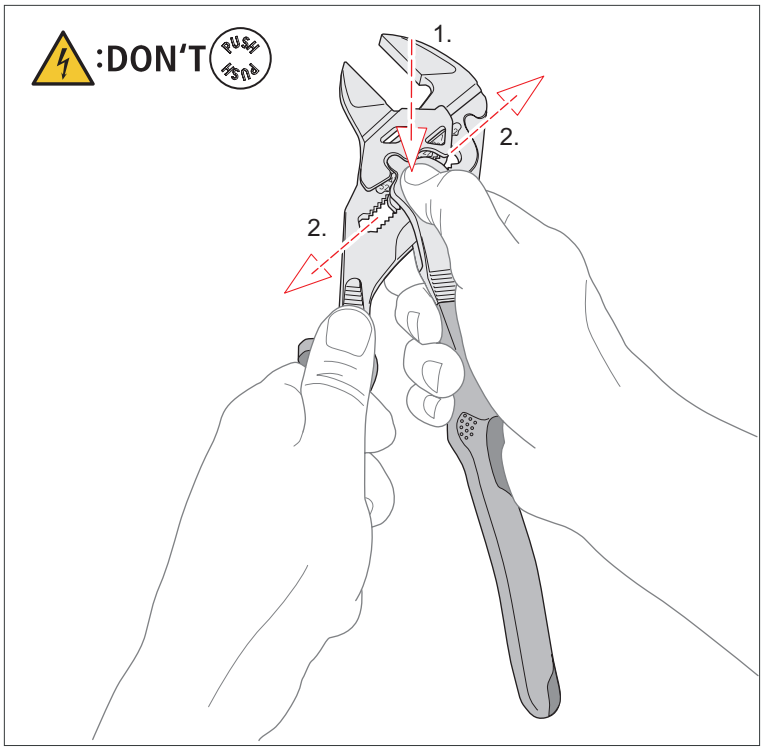
Risk to life from electrical current!

Never adjust the width across flats in the immediate vicinity of electrical equipment.

Since you have to touch the joint pin to adjust it and this is not part of the insulated area of the tool, this is a direct risk to life.

The width across flats should be adjusted before the screwing or gripping process.

1. Open the pliers wrench slightly.
2. Press the joint pin down and move the gripping jaw to set the desired width across flats. Use either the metric or the imperial scale as a guide. You can read the set value on the setting aid for presetting the width across flats.

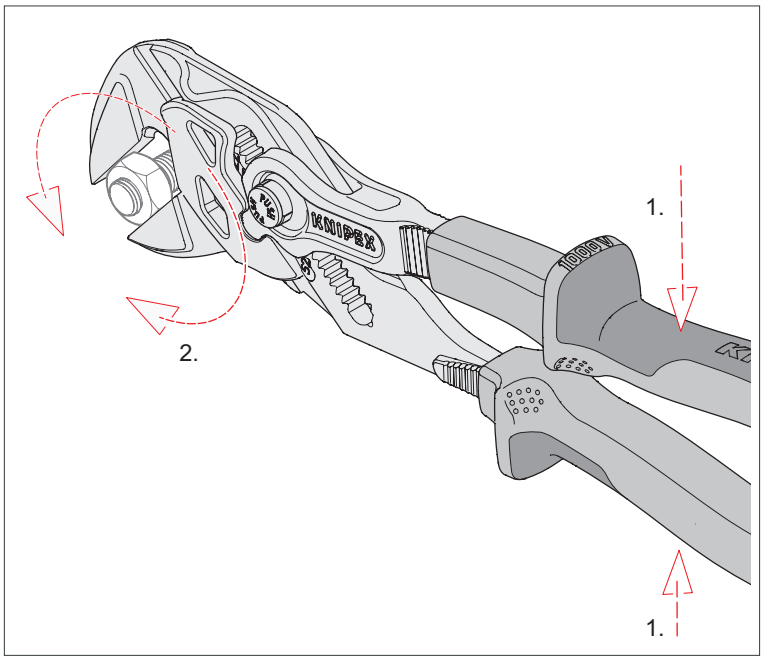


Setting width across flats

3. Release the joint pin. It engages to fasten the desired width across flats in place.

4.3 Driving screws with the pliers wrench

1. Place the pliers wrench on the screw hole. The upper handle must point in the direction of rotation to prevent the pliers wrench from opening accidentally during use.
2. Press the handles firmly together and tighten or loosen the screw connection.



Tightening screws with the pliers wrench

5 Maintenance

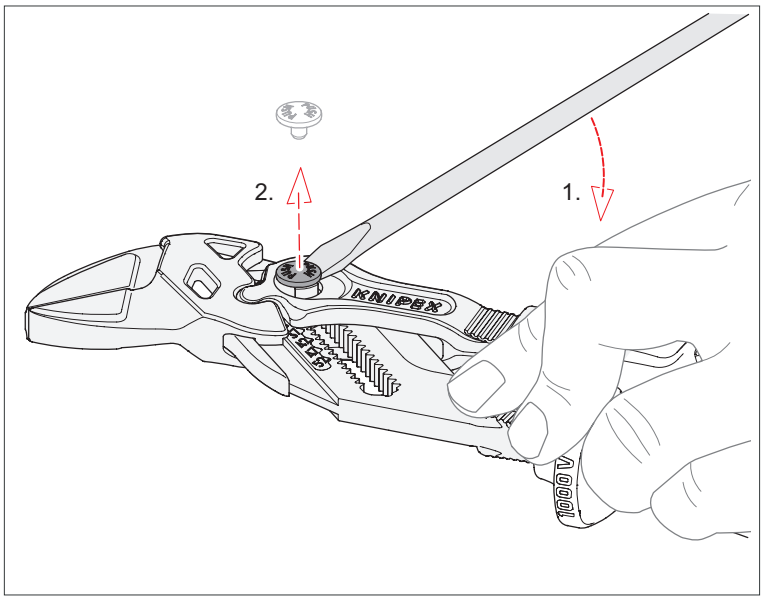
5.1 Changing the joint pin (adjustment)

You will need the following spare parts and tools to change the joint pin:

- Spare Part Set: Adjustment for 86/87 XX 250/300 (article number 87 09 01); includes two different joint pins, of which only one is used.
- Screwdriver (Slotted)
- TORX key TX5
- Pliers Wrench or the like

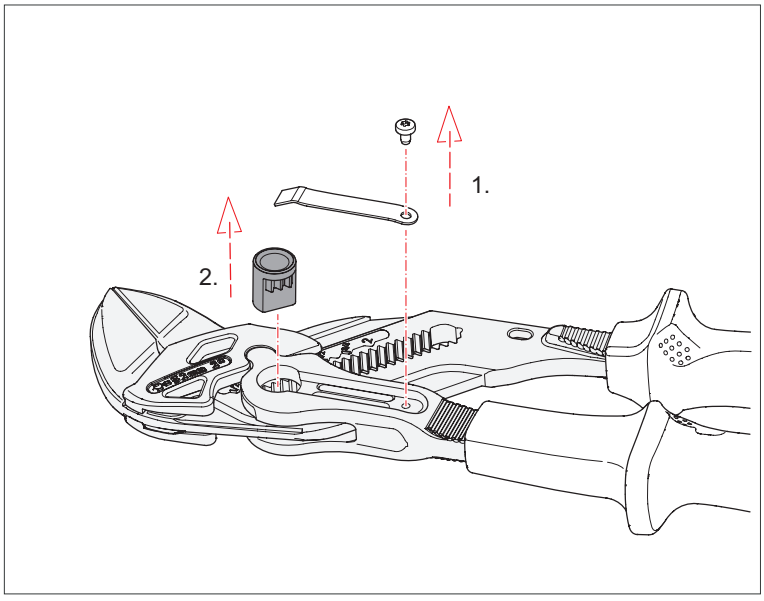
5.1.1 Removing the joint pin

1. Lever out the cover of the joint pin with a slotted screwdriver.



Remove the cover of the joint pin

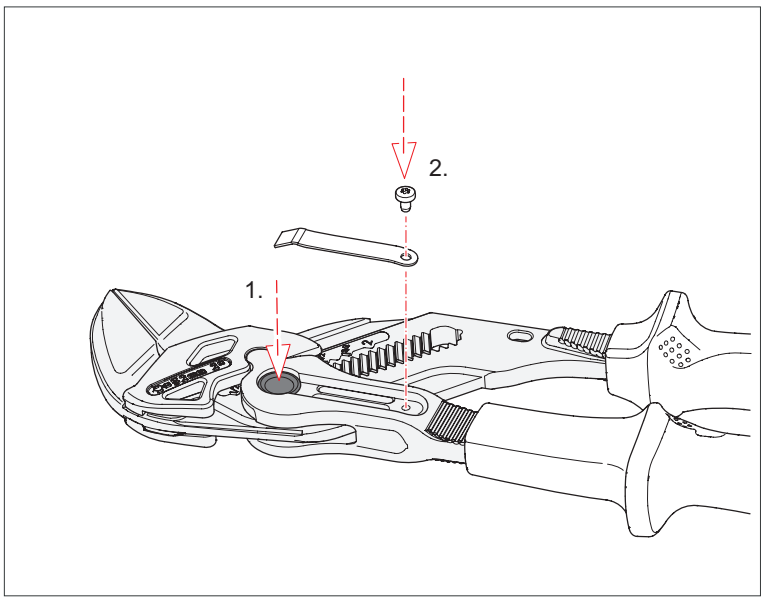
2. Turn the pliers wrench around and unscrew the TORX screw with a TX 5 TORX key.
3. Remove the joint pin spring plate and then the joint pin.



Remove joint pin

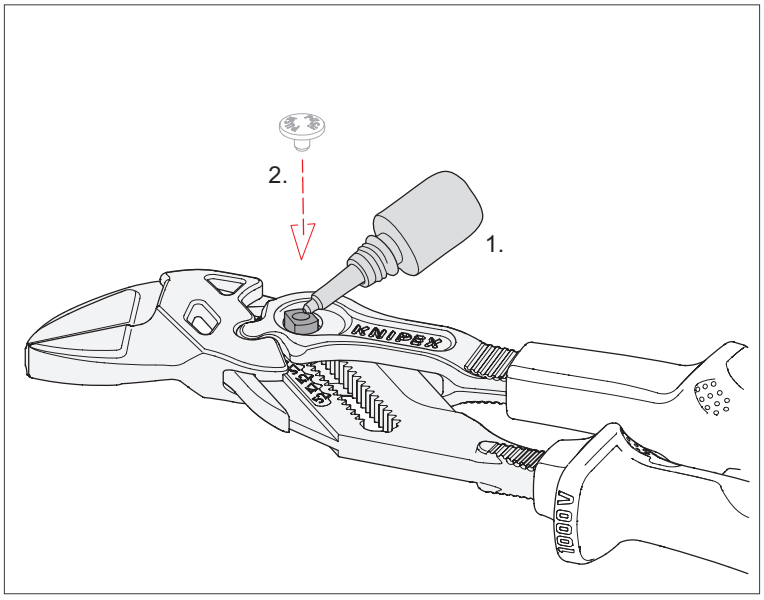
5.1.2 Insert new joint pin

1. Insert the correctly sized new joint pin.
2. Attach the spring plate and secure it with the TORX screw.



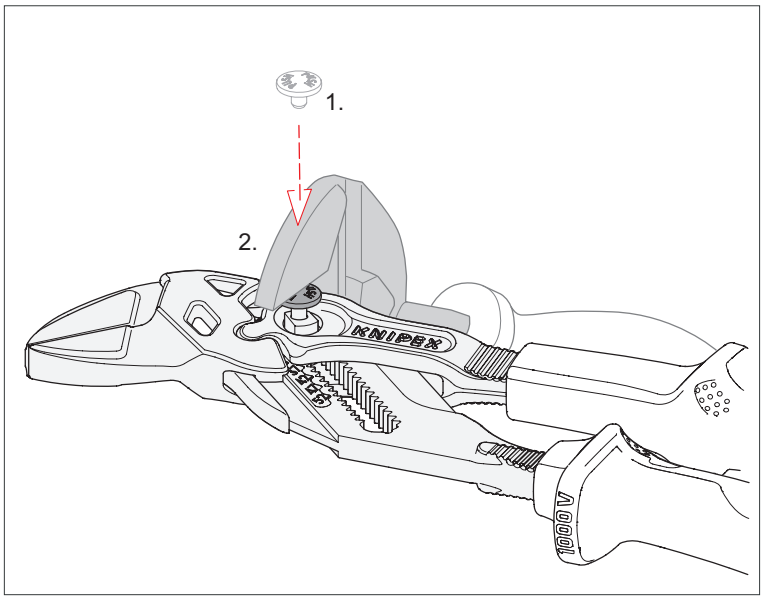
Insert new joint pin

3. Turn the pliers wrench around.
4. Put some threadlocker (e.g. Loctite) on the joint pin and insert the cover into the joint pin.



Glue the cover into the joint pin

5. Press the cover firmly into the joint pin with a pliers wrench or other suitable tool.



Press the cover of the joint pin

6 Technical data

	Unit	
Item number pliers wrench	–	86 06 250
EAN	–	4003773082408
Article number Spare part assortment Adjustment	–	87 09 01
Item number protective jaws	–	86 09 250 V01
Dimensions	mm	250 x 75 x 28
Weight	g	525
Capacities for nuts	mm	for up to 52
Capacities for nuts	inch	up to Ø 2

7 Disposal

Ensure that the dismantled parts of the product are properly recycled.

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