

multitools

General information

- These instructions are intended solely for an authorized customer service engineer.
- Inform the customer of important points relating to operation and safety.

Intended use

The multitools must be employed solely for the intended use specified below:

- The multitools are designed and built solely to assist an authorized customer service engineer in adjusting / calibrating a Convotherm 4 appliance.

Necessary additional instructions

These instructions are a supplement to the user and installation manuals and the servicing documentation for your appliance and must only be used in conjunction with these documents. Please refer to the manuals for technical data, intended use, design and operation and safety information.

Live components



Risk of electric shock from live parts and loose cables

When the safety cover is open, there is a risk of electric shock from touching live parts.

- ▶ Make sure that any work on the electrical system is performed solely by a qualified electrician from an authorized service company.
- ▶ Before removing the safety covers:
 - Switch off all connections to the power supply.
 - Take protective measures at every power switch to ensure that the power cannot be switched on again.
 - Make sure that the appliance is de-energized.
- ▶ Make sure that the electrical connections are intact and connected securely before putting the appliance into use.
- ▶ Before putting the appliance into use, make sure that the appliance, including all metallic fittings, is connected to an equipotential bonding system.

Sharp-edged sheet-metal parts

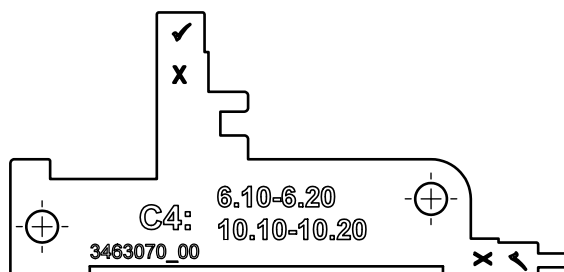


Risk of cuts from sharp-edged sheet-metal parts

Working with or behind sharp-edged sheet-metal parts may result in cuts to hands.

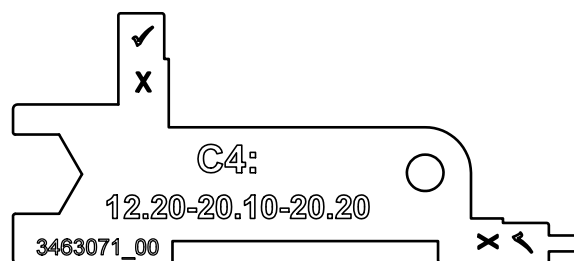
- ▶ Exercise caution.
- ▶ Wear personal protective equipment.

Construction of the adjustment gauge for table-top and floor-standing units



Name **More on this ...**

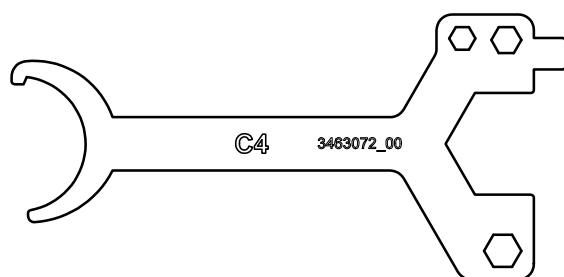
Adjustment gauge for
table-top units See page 23



Name **More on this ...**

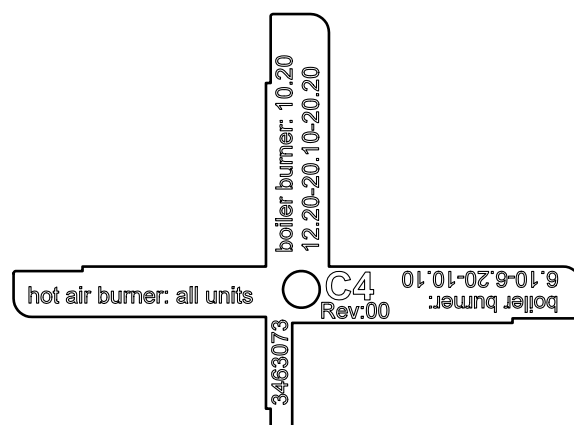
Adjustment gauge for
floor-standing units See page 30

Construction of spanner and gas gauge



Name **More on this ...**

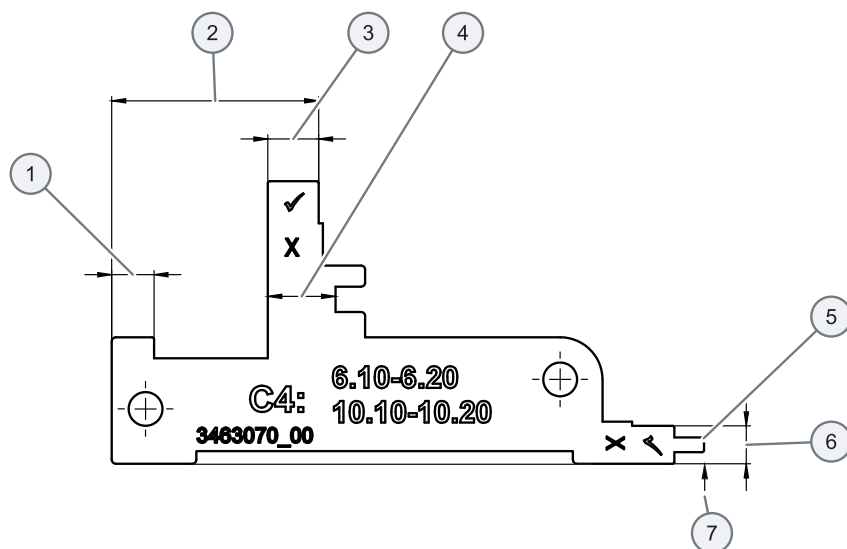
Spanner See page 36



Name **More on this ...**

Gas gauge See page 38

Adjustment gauge 1 2 3 4 P4: for adjusting table-top units





Item	Function
1	Catch height
2	Vertical catch offset
3	Gap between door and front section
4	Distance for door contact switch adjustment
5	Safety thermostat reset
6	Door gap on hinge side
7	Horizontal catch offset
8	Door flush with top of appliance (Not shown: tool laid flat on top cover of appliance)

Requirements

Check that the following requirements have been met:


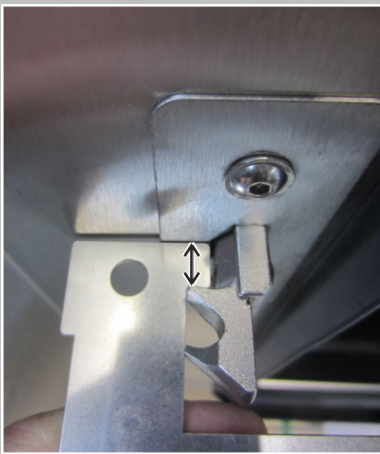

- The appliance has cooled down.
- The appliance is disconnected from the power supply and protective measures taken to ensure the power cannot be switched on again.

Adjusting the door catch: height

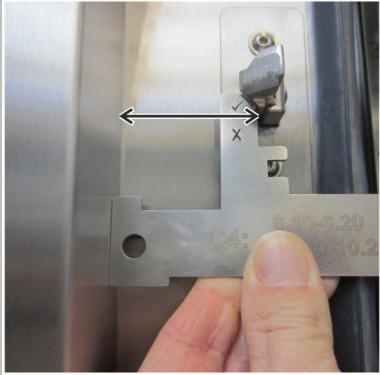

1.  Open the appliance door.
2. 

Place the adjustment gauge for table-top units in the position shown in the illustration.




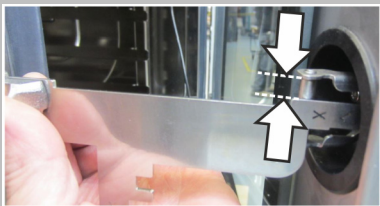
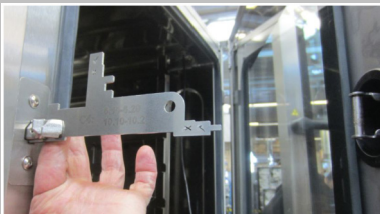

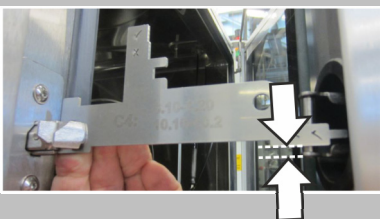


Check the gap between the lower fastener and the adjustment gauge.

If the gap is > 1 mm or the adjustment gauge does not fit behind the catch fastener, the door catch must be readjusted.
3.  To do this, undo the fixing screw for the fastener until the catch fastener can be adjusted in defined increments set by the serrated edge.
4.  Adjust the catch fastener until the bottom fastener rests fully against the adjustment gauge for table-top units.
5.  Re-tighten the fixing screw.


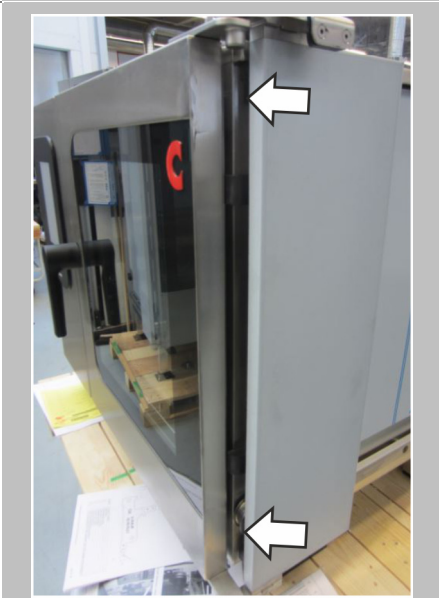

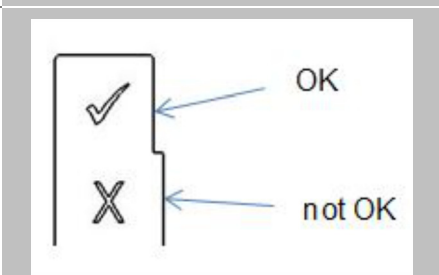
Adjusting the door catch: vertical position

- | | | |
|----|--|--|
| 1. | | Open the appliance door. |
| 2. |  | Place the adjustment gauge for table-top units in the position shown in the illustration. |
| 3. |  | <p>Check that the catch fastener lies in the OK range of the adjustment gauge for table-top units.</p> <div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> <div style="text-align: center;">✓</div> <div style="text-align: center;">X</div> </div> <div> <p>← OK</p> <p>← not OK</p> </div> </div> |
| 4. | | If this is not the case, undo the two fixing screws on the door catch unit and move the unit until the adjustment gauge lies in the OK range. |
| 5. | | Re-tighten the fixing screws. |


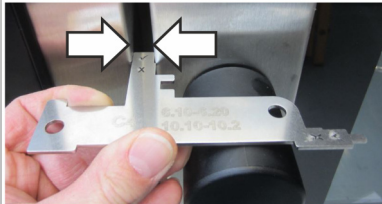
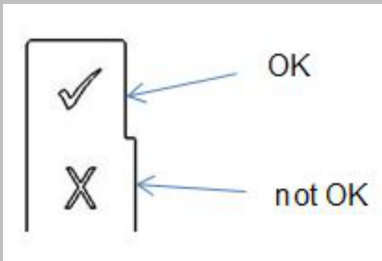
Adjusting the door catch: horizontal position

1.  Open the appliance door.
2.  Place the adjustment gauge for table-top units in the position shown in the illustration.
Make sure that the adjustment gauge sits flush with the top of the door catch and lies flat against the catch.
3.  Slowly close the appliance door until the catch roller rests against the tip of the adjustment gauge.
4.  Check the gap between the top edge of the catch roller and the adjustment gauge.
The gap should equal at least 5 mm here.
5.  Turn the adjustment gauge over and place it in the position shown in the illustration.
Make sure that the adjustment gauge now sits flush with the bottom of the door catch and lies flat against the catch.
6.  Slowly close the appliance door until the catch roller rests against the tip of the adjustment gauge.
7.  Check the gap between the bottom edge of the catch roller and the adjustment gauge.
The gap should equal at least 2 mm here.
8.  If this is not the case, undo the two fixing screws on the door catch unit and move the door catch until the gaps meet the sizes specified above.
9.  Re-tighten the fixing screws.
Make sure you do not alter the vertical position in the process.


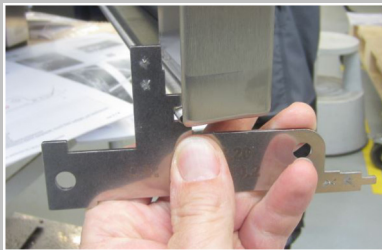
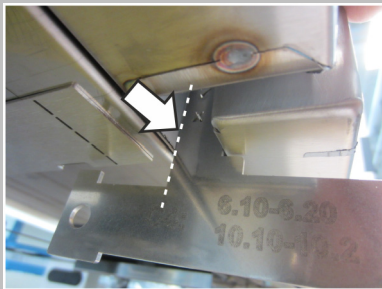

Adjusting the door gap: hinge side

1.  Close the appliance door.
2.  The door gap needs to be checked at the top and bottom of the appliance on the hinge side.
3.  To do this, place the adjustment gauge for table-top units in the position shown in the illustration.
4.  Check that the door gap lies in the OK range of the adjustment gauge for table-top units.




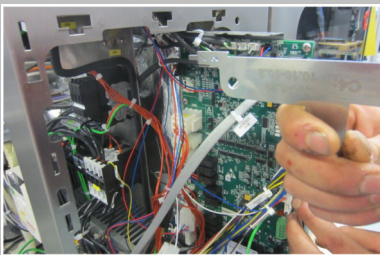
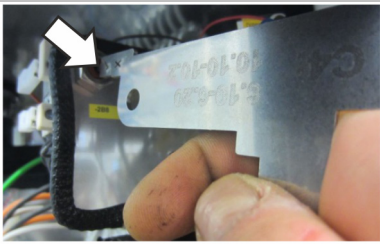
Adjusting the door gap: front section

1.  Close the appliance door.
2.  Place the adjustment gauge for table-top units in the position shown in the illustration.
3.  Check that the door gap lies in the OK range of the adjustment gauge for table-top units.


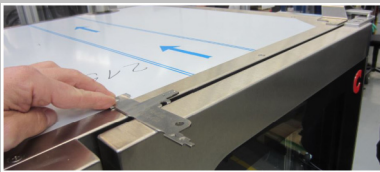
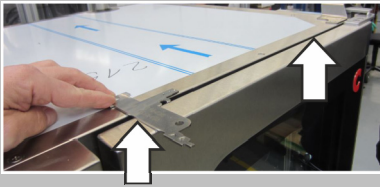
Distance for door contact switch adjustment

1.  Open the appliance door.
2.  Attach the adjustment gauge for table-top units to the door as shown in the illustration.
3.  Close the door as far as the adjustment gauge allows.
4.  This now gives the defined gap for adjusting the door contact switch.
See the Training manual.

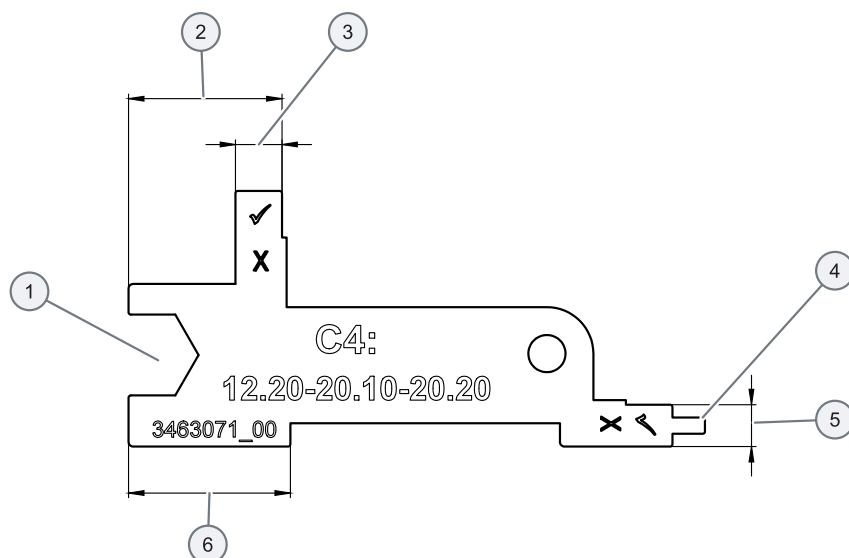
Safety thermostat reset

1.  Disconnect the appliance from the power supply and take protective measures to ensure the power cannot be switched on again.
2.  Remove the UI board.
3.  Undo the screw and hinge out the SIB.
See the Repair manual.
4.  Place the adjustment gauge in the position shown in the illustration.
5.  Press the button on the safety thermostat back in.
Caution:
If a safety thermostat needs to be reset, this means that the temperature got too high so the appliance needs to be checked over again.

Door flush with top of appliance

1.  Close the appliance door.
2.  Place the adjustment gauge in the position shown in the illustration.
3.  Check that the door is flush on both the left and right side as shown in the illustration.
The difference in height must not exceed 2 mm.

Adjustment gauge 5 6 7 P4: for adjusting floor-standing units





Item	Function
1	Tightening the temperature sensor
2	Vertical catch offset
3	Gap between door and front section
4	Safety thermostat reset
5	Door gap on hinge side
6	Catch height
7	Door flush with top of appliance (Not shown: tool laid flat on top cover of appliance)


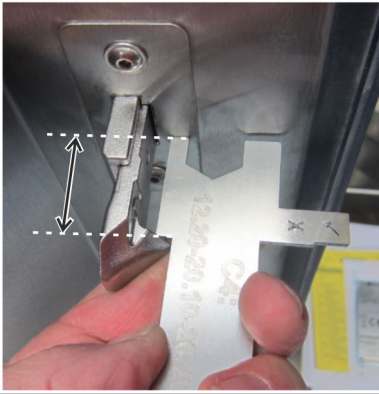

Requirements

Check that the following requirements have been met:




- The appliance has cooled down.
- The appliance is disconnected from the power supply and protective measures taken to ensure the power cannot be switched on again.

Adjusting the door catch: height

1.  Open the appliance door.
2.  Place the adjustment gauge for floor-standing units in the position shown in the illustration.
Check the gap between the fastener and the adjustment gauge.

If the gap is > 1 mm or the adjustment gauge does not fit behind the catch fastener, the door catch must be readjusted.
3.  To do this, undo the fixing screw for the fastener until the catch fastener can be adjusted in defined increments set by the serrated edge.
4.  Adjust the catch fastener until the fastener rests fully against the adjustment gauge for floor-standing units.
5.  Re-tighten the fixing screw.



Adjusting the door catch: vertical position

1.  Open the appliance door.
2.  Place the adjustment gauge for floor-standing units in the position shown in the illustration.
3.  Check that the catch fastener lies in the OK range of the adjustment gauge for floor-standing units.

✓

X

← OK

← not OK
4.  If this is not the case, undo the two fixing screws on the door catch unit and move the unit until the adjustment gauge lies in the OK range.
5.  Re-tighten the fixing screws.

Adjusting the door gap: hinge side

1.

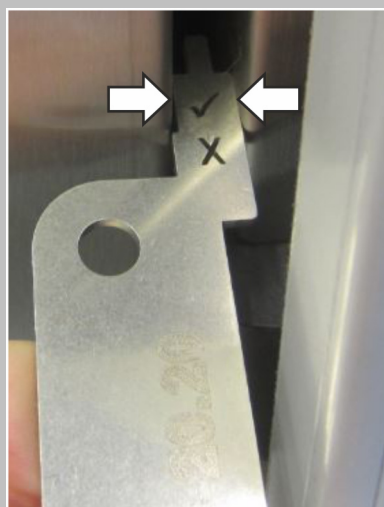
Close the appliance door.

2.



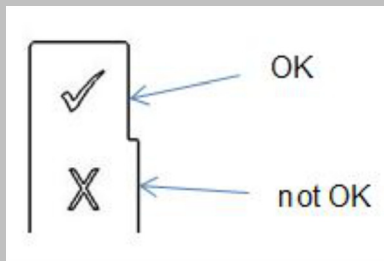
The door gap needs to be checked at the top and bottom of the appliance on the hinge side.

3.



Place the adjustment gauge for floor-standing units in the position shown in the illustration.

4.



Check that the door gap lies in the OK range of the adjustment gauge for floor-standing units.

Adjusting the door gap: front section

1.

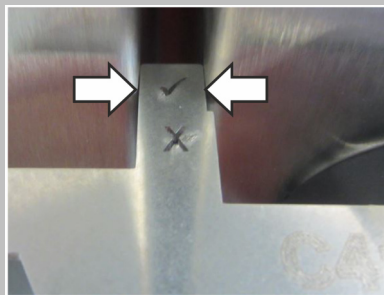
Close the appliance door.

2.

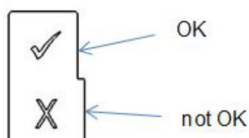


Place the adjustment gauge for floor-standing units in the position shown in the illustration.

3.



Check that the door gap lies in the OK range of the adjustment gauge for floor-standing units.





Safety thermostat reset

1. Follow the safety thermostat reset procedure that was described for the adjustment gauge for table-top units.

Door flush with top of appliance

1. Follow the procedure for checking that the door is flush with the top of the appliance, as described for the adjustment gauge for table-top units.

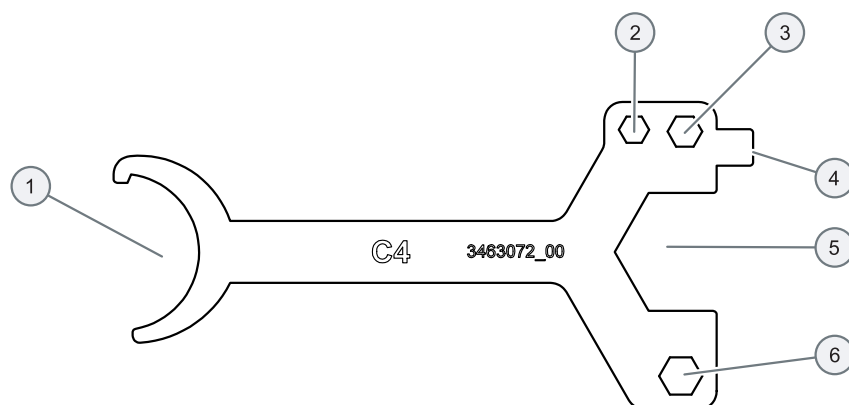
Tightening and undoing the temperature sensor

1.  Disconnect the appliance from the power supply and take protective measures to ensure the power cannot be switched on again.
2.  Remove the cover from the appliance base.
3.  Use the adjustment gauge for floor-standing units as shown in the illustration. This lets you undo/tighten the temperature sensor, which is difficult to get at.
4.  Use the adjustment gauge for floor-standing units as shown in the illustration. This lets you undo/tighten the temperature sensor for the drain box.

This picture has been taken in an appliance that has been cut open, to give a better view.
5.  Use the adjustment gauge for floor-standing units as shown in the illustration. This lets you undo/tighten the temperature sensor for the collector box.

This picture has been taken in an appliance that has been cut open, to give a better view.

Spanner P4



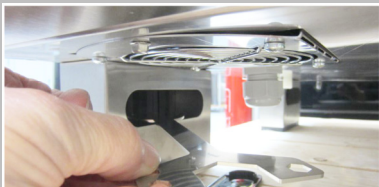

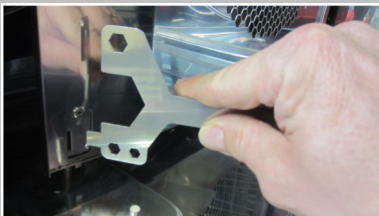

Item	Function
1	Foot height adjustment for table-top units
2	7 mm (service panel)
3	8 mm (left-hand cover, service panel, collector box cover)
4	Opening/closing the suction panel
5	Foot height adjustment for floor-standing units
6	10 mm (pump cover)

Requirements

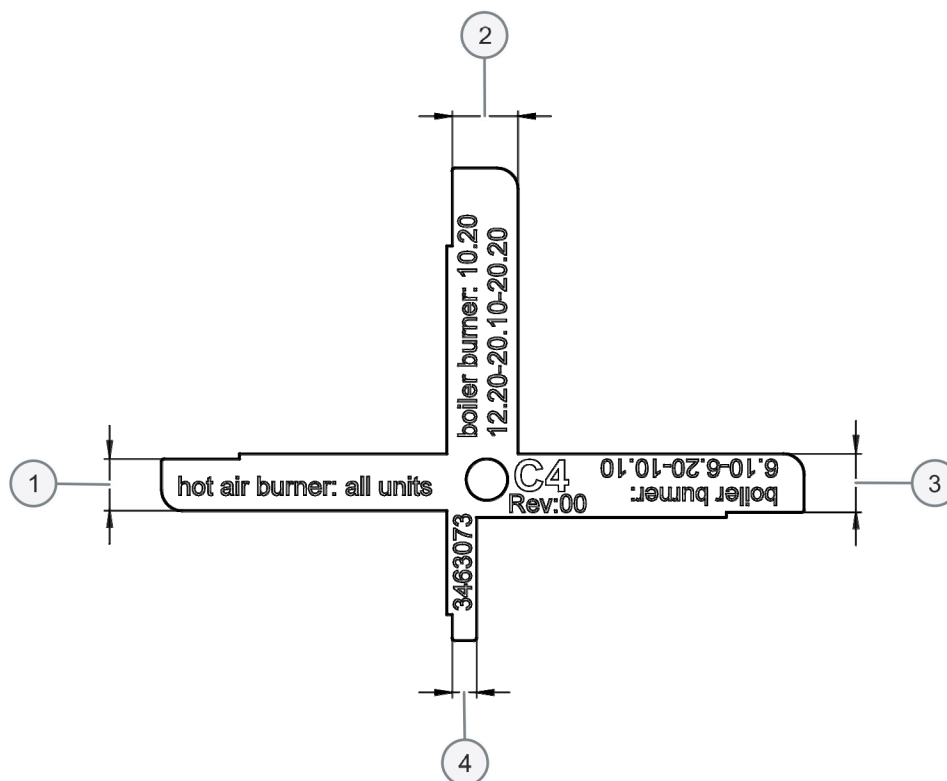
Check that the following requirements have been met:

- The appliance has cooled down.
- The appliance is disconnected from the power supply and protective measures taken to ensure the power cannot be switched on again.

Examples of use for the spanner

- | | | |
|----|---|--|
| 1. |  | Usage: Foot height adjustment for table-top units (1) |
| 2. |  | Usage: Undoing/tightening bolts (2, 3, 6) |
| 3. |  | Usage: Opening/closing the suction panel (4) |
| 4. |  | Usage: Foot height adjustment for floor-standing units (5) |

Gas gauge P4




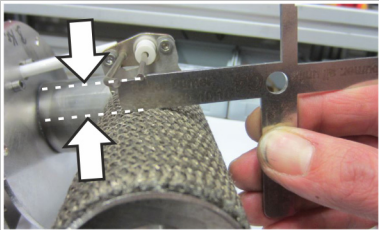
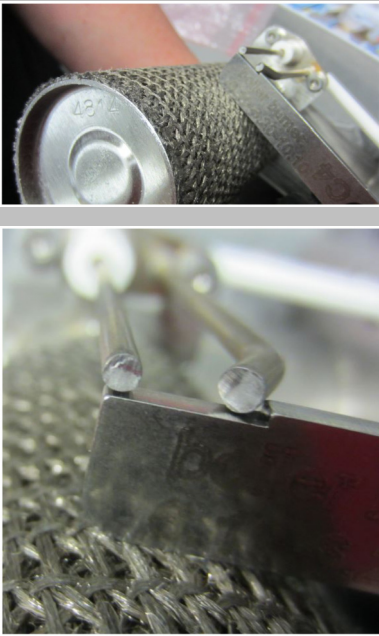
Item	Function
1	Gap between ignition electrode/burner mantle: convection burner for all appliance sizes
2	Gap between ignition electrode/burner mantle: boiler burner 10.20/12.20/20.10/20.20
3	Gap between ignition electrode/burner mantle: boiler burner 6.10/6.20/10.10
4	Gap between ignition electrode/monitoring electrode

Requirements


Check that the following requirements have been met:

- The appliance has cooled down.
- The appliance is disconnected from the power supply and protective measures taken to ensure the power cannot be switched on again.


Gap between ignition electrode and burner mantle

1.  Select the correct gauge arm for the particular appliance burner mantle (arm 1, 2 or 3)
2.  Place the gas gauge P4 in the position shown in the illustration.
3.  Check whether the gap lies in the OK range of the gas gauge.

OK


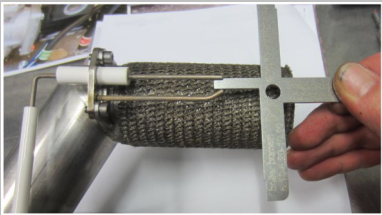



Not OK

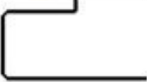


boiler
6.10-€

Gap between ignition electrode and monitoring electrode

1.  Select the gauge arm for the monitoring electrode (arm 4).
2.  Place the gas gauge P4 in the position shown in the illustration.
3.  Check whether the gap lies in the OK range of the gas gauge.

OK



Not OK

