Important information - Please read

Do not twist the lifting spindle of the motor

- **Twisting the lifting spindle changes the zero position.**
- **The zero position cannot be restored.**
- **Twist only max. 90° to correct the installation position.**

If the lifting spindle is moved to a different installation position, the lifting spindle must be restrained by means of a screwdriver or the like to prevent twisting.

Applies to pan motor installation kit FCEKMP112 1.0-2.0 10017425

Read the installation instructions for the units and observe the safety information.

The target group for this installation manual is trained qualified personnel entrusted with the technical functioning and operation of the unit.

Information from the service manual is required for certain work.

Safety instructions

Organizational measures

Risk of property damage and personal injury from lack of organizational measures

- Have at least 2 persons carry out the required work
- Use equipment and protective gear suitable for the activity.

Danger of electric shock from live components.

- Prior to working on the electrical system, switch off the unit, disconnect the electrical system from the mains and prevent power from being switched on again. Check to ensure the system is dead.
- Use only insulated tools.

⚠ DANGER
Risk of personal injury and property damage from electric shock

- Inspection and adjustment work that can be carried out only with the housing open and the unit under power must be performed only by electrically trained qualified personnel.

Scope of delivery

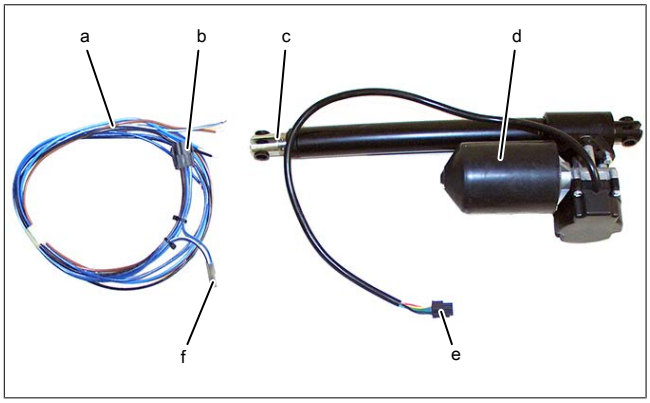

Image: Included with delivery of installation kit for motor and wiring harness conversion

a	Wiring harness	d	Motor
b	Wiring harness connector	e	Motor connector
c	Lifting spindle	f	Limit switch connector

Preparatory work

Unit switched on and ready for use.

1. Open the lid completely.
2. Tilt pan (without spring assist) to operating position.
3. Tilt pan (3/1 with spring assist) to emptying position.

   ↳ If the pan motor no longer functions, proceed with the work.
4. Switch off unit and disconnect it from power.
5. Close main water supply valve.
6. Remove front panel of the operating spar.
7. If possible, remove the side wall of the operating spar.

Removing the hose roll-up box

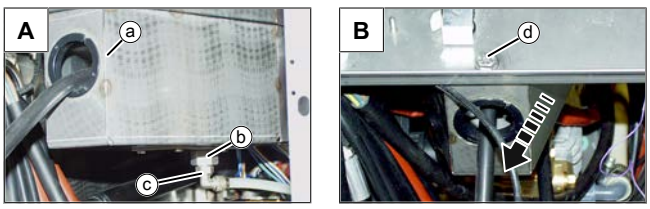

Image: A: Hose roll-up box with water connection; B Remove hose roll-up box

a	Hose roll-up box	c	Water connection on hose roll-up box
b	Connection nipple on hose roll-up box	d	Fastening screw

Unit dead

Water supply shut off

Front panel of the operating spar removed

Operating spar cover removed

1. Unscrew water connection on hose roll-up box.
   ↳ Hold connection nipple securely while unscrewing the connection.
   ↳ Use cloths to absorb dripping water.
2. Unscrew fastening screw for the hose roll-up box.
3. Pull hose roll-up box towards the front and remove it.

Disconnecting the pan motor

Disconnecting the connector

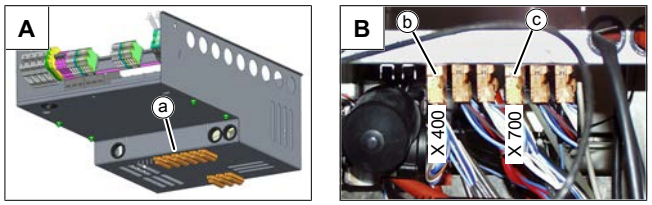

Image: A: Connector overview; B: Connector for pan motor and lid motor

a Connector overview

b Connector for pan motor and lid motor (left)

c Connector for pan motor and lid motor (right)

1. Check whether the defective motor already has a wiring harness with connector.
   ↳ If yes, no changes to the connections on the connector are necessary.
2. Unplug the connector for the defective motor.
3. Check whether connector is labeled.
   ↳ Pin 1 on the connector is identified.
4. If the pan motor is defective, remove the wires from pins 2 — 6 on the connector.
   ↳ Release the contacts with the aid of a suitable screwdriver.

Disconnecting the limit switch

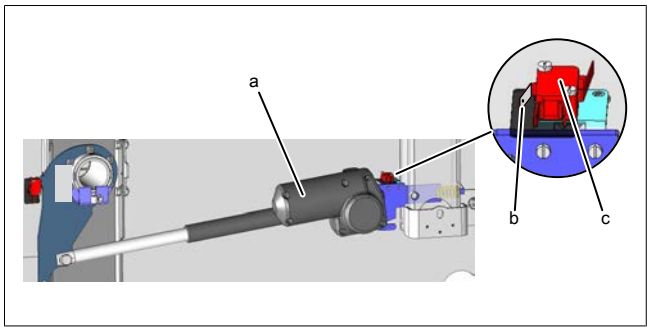

Image: Pan motor limit switch

a Pan motor

b Connection on side of limit switch

c Pan motor limit switch

1. Disconnect wire lug from connection on side of limit switch for the defective motor.

Removing the pan motor

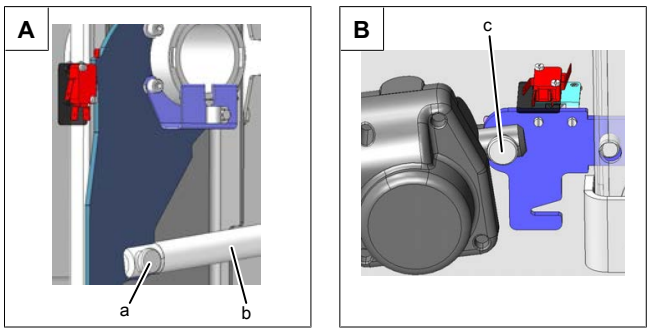

Image: A: Lifting spindle with pin; B: Motor attachment bracket

a Pin in lifting spindle

b Lifting spindle

c Pin in motor attachment bracket

1. With the assistance of a second person, prevent the pan from tipping.
2. Detach retaining spring from pin in lifting spindle and pull out pin.
3. Carefully lower the lifting spindle.
4. Tilt pan (without spring assist) to operating position.
5. Tilt pan (3/1 with spring assist) to emptying position.
6. Remove spring clip from pin in motor attachment and pull out pin.
7. Carefully remove the pan motor.
8. Cut the cable off the connector.

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Connecting the wiring harness

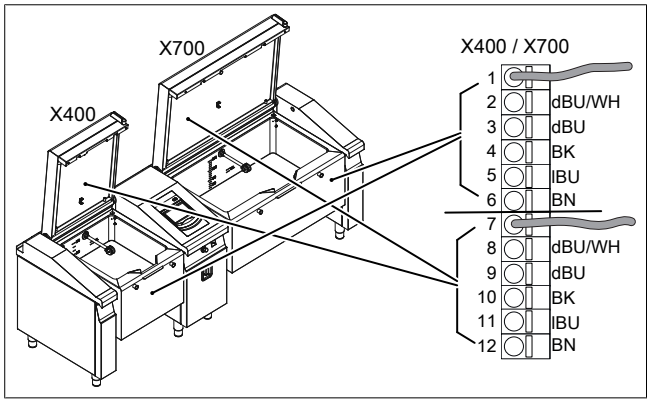

Image: Connectors with pin assignment for wiring harness

1. Strip and twist ends of wires in wiring harness.
2. Attach wires to connector in accordance with color chart.

   ↳ Release the contacts with the aid of a suitable screwdriver.
3. Attach connector.

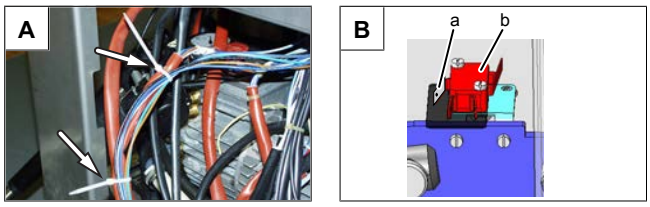

Image: A: Secure wiring harness; B: Connect limit switch

a Connection on side b Pan motor limit switch

1. Use cable ties to secure wiring harness along the protective tubing.
2. Attach wire lug to connection on side of appropriate limit switch.

Installing the pan motor

NOTICE
Do not twist the lifting spindle of the motor

Twisting the lifting spindle changes the zero position.

The zero position cannot be restored.

- Twist only max. 90° to correct the installation position.
- If the lifting spindle is moved to a different installation position, the lifting spindle must be restrained by means of a screwdriver or the like to prevent twisting.

1. Carefully align new motor on motor attachment bracket.
2. Insert pin into motor attachment bracket from the correct side.
3. Secure pin in motor attachment bracket with spring clip.
4. Connect motor connector to wiring harness connector.

Positioning the lifting spindle (pan without spring assist)

This work is only required if the pan is in the operating position (pan without spring assist).

NOTICE
Risk of damage from incorrect operation

All shutdown devices (limit switches) are disabled during the calibration. The motor may be stopped manually at the described time by tapping the "Stopp" button.

INFORMATION
The password for the service menu is 785

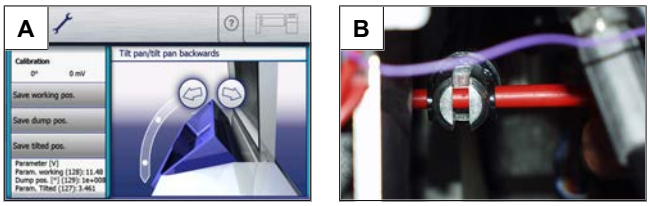

Image: A: Pan calibration menu; B: Lifting spindle on pan motor

1. Restore power supply.
2. Open the Service menu.
3. Open the pan calibration menu.
4. Raise the lifting spindle and use a screwdriver to secure it against turning.
5. **CAUTION! Pinch point hazard as lifting spindle extends**
   Operate calibration menu with the assistance of a second person.
6. Tilt pan to operating position.

   ↳ The lifting spindle extends slowly.
7. Stop the tilting motion when the attachment position is reached.

   ↳ If the oblong hole does not align fully, correct the position.

Attaching the lifting spindle

Prerequisite

Lifting spindle positioned with oblong hole

1. Insert pin into lifting spindle from the correct side.
2. Secure pin in lifting spindle with spring clip.

Calibrating the pan

NOTICE
Risk of damage from incorrect operation

All shutdown devices (limit switches) are disabled during the calibration. The motor may be stopped manually at the described time by tapping the "Stopp" button.

Calibrating the operating position (pan horizontal)

1. Tilt the pan about 20°.
2. Tap the *"right"* arrow button.
   ↳ The pan tilts back.
   ↳ "STOPP" button display.
3. As soon as the pan rests against the stop at the operating position, tap the *"STOPP"* button **within 1 second**.
   ↳ The motor stops.
   ↳ The tilt angle displayed on the screen can be disregarded. The position is established strictly visually.
4. Tap the "Save operating position" button.
   ↳ The tilt angle displayed reads 0°.
   ↳ The motor feedback signal is applied in the *Operating position* parameter window.

Calibrating the tilted position

The pan must be in the operating position for the calibration.

INFORMATION
Slow tilting: Drag the "*Left"* arrow to the first dot.
Fast tilting: Drag the "*Left"* arrow to the second dot.
Change speed: Move "*Left"* arrow sideways while tilting.
Stop: Release the "*Left"* arrow.

→ Drag the *"left"* arrow button to the first dot.
   ↳ The pan tilts slowly.
→ As soon as tilting of the pan is detected, release the *"left"* arrow button.
   ↳ The motor stops.
   ↳ The tilt angle displayed reads approx. 3°.
→ Tap the "Save tilted position" button.
   ↳ The motor feedback signal is applied in the *Tilted position* parameter window.

Image: Calibrating the emptying position

Calibrating the emptying position

1. Place a round object in the middle of the pan.
2. Drag the *"left"* arrow button to the second dot and tilt the pan to 85°.
   ↳ The pan tilts quickly.
3. Drag the *"left"* arrow button to the first dot.
   ↳ The pan tilts slowly.
4. As soon as the object rolls out of the pan, release the *"left"* arrow button.
   ↳ The motor stops.
   ↳ Tap the "Save emptying position" button.
   ↳ The tilt angle displayed reads 90°.
   ↳ The motor feedback voltage is transferred to the Emptying position parameter window.

Attaching the hose roll-up box

Unit dead

1. Install the hose roll-up box.
2. Screw in the fastening screw for the hose roll-up box.
3. Attach water connection to hose roll-up box.
   ↳ Hold connection nipple securely while unscrewing the connection.
4. Open the water supply.
5. Inspect the ports for leaks.

Concluding work

1. Attach side wall of operating spar.
2. Attach front panel of operating spar.

Testing the function

Tilting the pan

Prerequisite

Pan not in end position

Lid completely opened

Unit function menu displayed

1. Tap the "Pan" field.
   ↳ The *Actuate* window is displayed.
2. Tap and hold the *Arrow* symbol.
   ↳ A signal sounds.
   ↳ The pan is tilted.
3. Check whether the pan stops automatically on reaching the final position.
   ↳ If not, stop pan immediately and recalibrate.

Tilting back the pan

Prerequisite

Pan tilted

Lid completely opened

Unit function menu displayed

1. Tap the "Pan" field.
   ↳ The *Actuate* window is displayed.
2. Tap the *Arrow* symbol.
   ↳ A signal sounds.
   ↳ The pan is tilted back.
   ↳ The *Arrow* symbol disappears and the "Stopp" button is displayed.
3. Wait for the pan to reach the operating position.
4. Check whether the pan stops automatically on reaching the operating position.
   ↳ If not, stop pan immediately and recalibrate.