

Mono-SB-Vacuum Cleaner

1.261-... 230V, 50 / 60 Hz, 1~
1.263-... 400V, 50 Hz, 3~



5.959-328
F23199
(11/99)



Table of Contents**For all users****Notes about these Operating Instructions****On behalf of the environment, waste disposal****Warranty****A For your safety**

1. Safety notes and tips
2. Using the system for its intended purpose
3. Operating position

B Operating information and settings

1. Unit overview
2. Switching on
3. Setting the operating period
4. Empty coin cassette
5. Adjust return force of the cable line
(only in units with pillar)

C Technical specifications**D Care and maintenance**

1. Cleaning the vacuum cleaner
2. Cleaning the coin mechanism
3. Dismantling the filter housing
4. Removing the suction hose
5. Changing the filter bag
6. Changing the sealing ring in the dirt container

E Troubleshooting**F Accessories****For specialists only****G Installation**

1. Installing the unit
 - 1.1. Preparing the installation site
 - 1.2. Unpacking the unit
 - 1.3. Installing and aligning the unit
 - 1.4. Connect suction hose
2. Connecting to the mains supply
3. Taking the unit into operation
4. Table of specifications

Notes about these operating instructions

Read these operating instructions carefully before starting the system up for the first time. Pay particular attention to the safety information. Keep these instructions in a safe place for future use.



Caution!

KÄRCHER cannot accept any liability for damage to the installation, for damage to customers' vehicles which are to be cleaned, or for any other damage which is caused by non-compliance with the regulations contained in these operating instructions.

For whom are these instructions intended

■ **All users**

Users are persons who have received instruction on how the system functions, operators and trained specialists.

■ **Trained specialists**

Trained specialists are persons who are professionally qualified to install and commission this type of system.

On behalf of the environment, waste disposal

Packaging

The packaging is made from environment-friendly materials such as wood and cardboard. Please take the packaging components to a suitable collection point for recycling.

Warranty

The applicable warranty conditions in different countries are issued by the respective national distributor of KÄRCHER products. In the event of a warranty claim, please contact your original dealer or the nearest authorised customer service centre.

A For Your Safety

For all users

1. Safety instructions and information

Symbols used in these operating instructions



Danger!

Denotes an immediate and present danger. Failure to observe this notice could lead to severe injury or death.



Caution!

Denotes a potentially hazardous situation. Failure to observe this notice could lead to minor injuries or damage to property.



Important!

Denotes operating hints and important information.

In order to avoid errors in operation or potentially dangerous situations, read the following before starting the system up for the first time:

- these operating instructions,
- the legal requirements that are currently applicable in your country.

All persons involved in the installation, commissioning, maintenance, repair and operation of this system must

- be suitably qualified,
- have read and understood the contents of these operating instructions, and should observe them at all times,
- be aware of all associated regulations, and should observe them accordingly.



Danger!

Danger of injury due to electric shock.

- The unit may only be operated at an earthed current supply.
- The unit is not suited for the sucking up of liquids.
- The mains connection cable must be checked regularly for damage and ageing. If damage is discovered the unit may no longer be used.
- Repairs may only be executed by authorised customer service points or by specialist personnel.
- The master switch must be set at the position "0" before any setting, cleaning, maintenance or repair work is undertaken.

A For Your Safety**Danger!**

Danger of explosion, danger of fire.

- *Never suck up explosive liquids, combustible gases, explosive dusts or solvents and undiluted acids. Due to turbulence these can form explosive vapours or mixtures with the suction air.*
- *Install the unit away from dangerous areas. That is to say, dangerous areas such as:*
 - *Active areas of fuel delivery nozzles.*
 - *Zones at a distance of 1 metre from vehicles being refuelled.*
 - *Areas around the tank ventilation mast.*
 - *Areas up to 2 metres around channels connected to the vapour-liquid separator.*
 - *Areas up to 2 metres around dome shafts.*
 - *Areas around tankers delivering fuel.*

Danger due to health-endangering dusts.

- *This unit may not be used for the sucking up of health-endangering dusts.*

Danger of injury from unit overturning.

- *The unit must be screwed firmly to a solid, load-bearing foundation.*

**Important!**

Only accessories and replacement parts authorised by the manufacturer may be used. Original accessories and original replacement parts offer a guarantee for safe and trouble-free operation of the unit.

2. Using the system for its intended purpose

This unit serves for the sucking up of dry dirt in the passenger compartments of motor vehicles.

It is contrary to the regulations and therefore forbidden to use the unit for sucking up

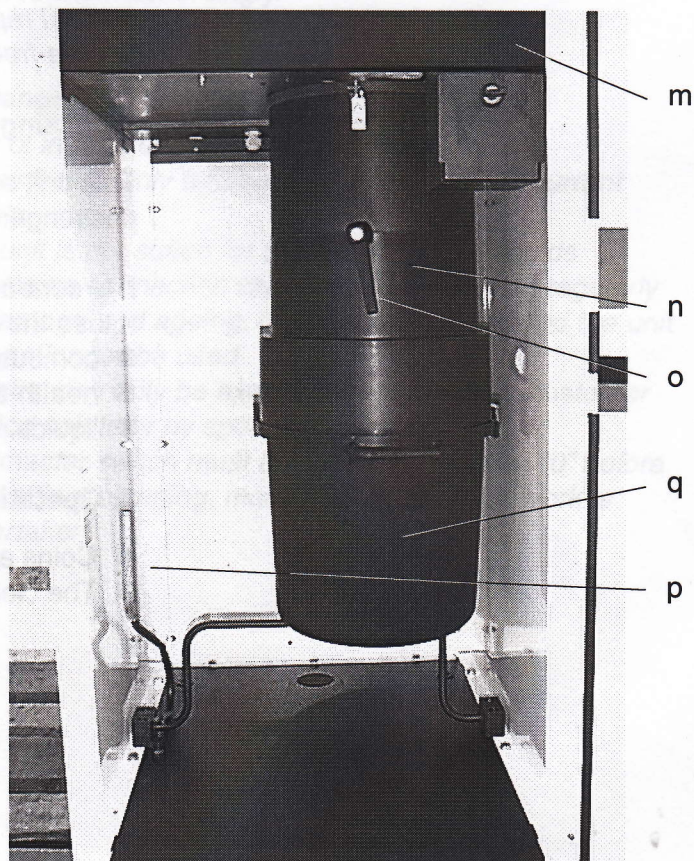
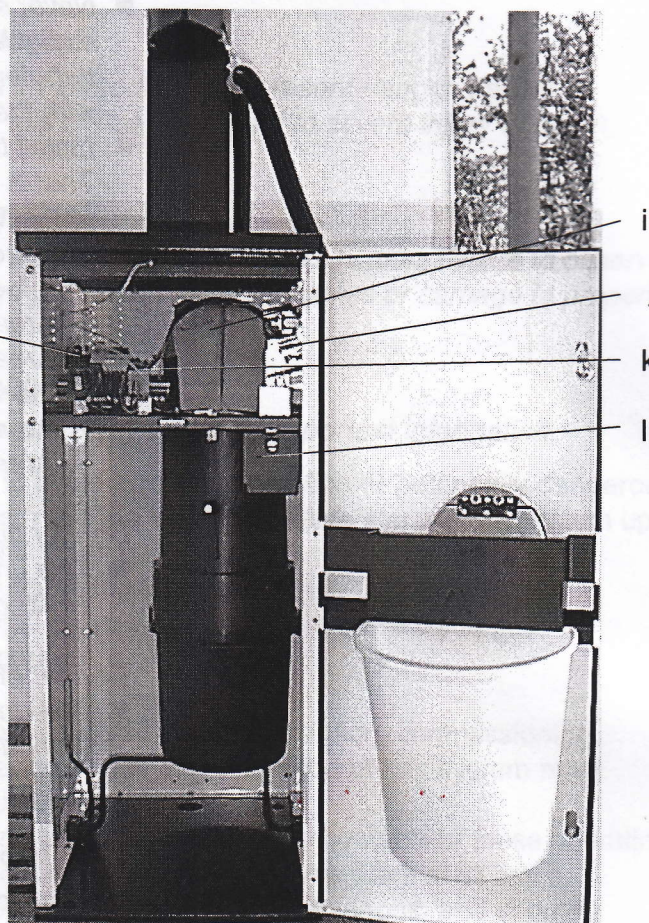
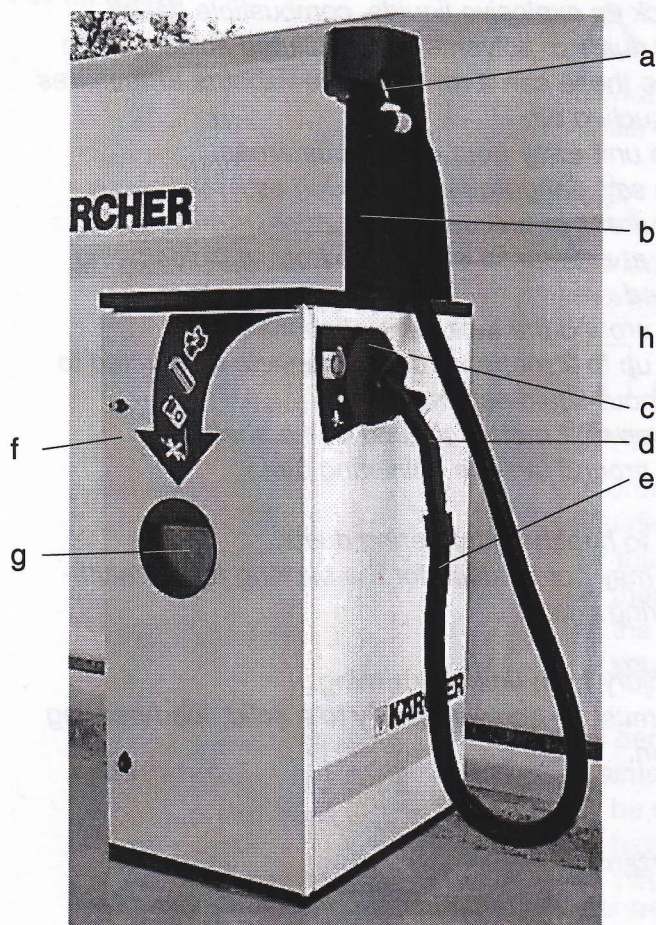
- *combustible substances*
- *health-endangering dusts and*
- *liquids.*

3. Operating position

- *Coins are inserted at the operating panel.*
- *The cleaning is executed with the suction nozzle.*

B Operating information and settings

1. Unit overview



- a Cable line
- b Pillar
- c Suction nozzle holder
- d Suction nozzle
- e Suction hose
- f Unit door
- g Rubbish container
- h Master switch
- i Suction turbine
- j Coin-acceptor unit
- k Time relay
- l Coin cassette
- m Cover
- n Filter housing
- o Lever for vibration device
- p Lever for removal of the dirt container
- q Dirt container

B Operating information and settings



2. Switching on

- Turn the master switch to position "1" to make the unit operationally ready.
- To start the suction device, insert a coin.
 - During the run-down of the vacuuming time, the coin slot is blocked. Coins cannot be summed up.
 - After expiry of the set operating period, the unit switches off.



Caution!

*Danger of overheating of the suction turbines.
Maximum temperature of the drawn-in air + 40 °C.*

3. Setting the operating period



Danger!

*Danger of injury due to electric shock.
Before undertaking any setting tasks the master switch must be turned to position "0".*

- Open the unit door.
- Fold cover (m) upwards and push backwards.
- Turn master switch to position "0".
- Set rotary knob of the time relay (k) to the desired value (0...10 minutes).
- Turn master switch to position "1".
- Lock the cover (m) in place.
- Close the unit door.

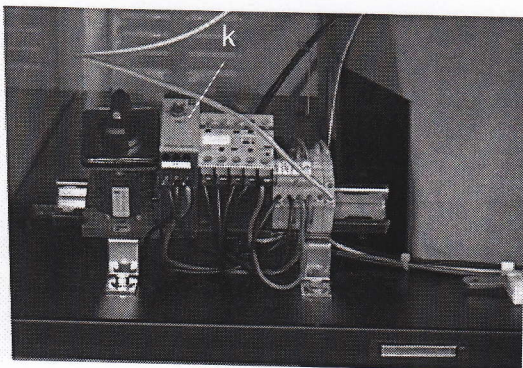
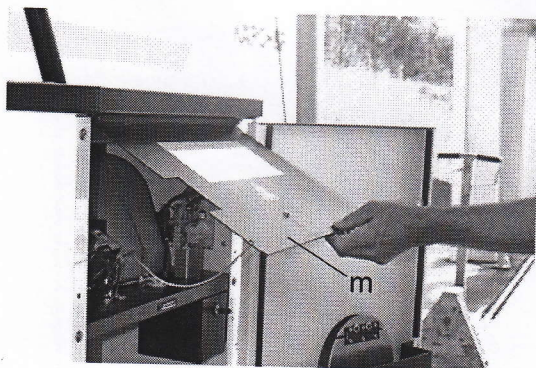
4. Empty coin cassette



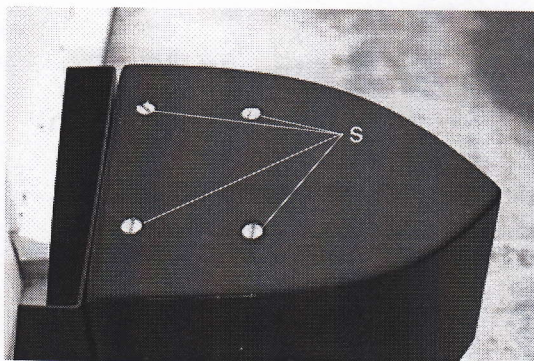
Important!

Empty the coin cassettes daily.

- Open the unit door.
- Open coin cassette (l) and empty it.
- Close coin cassette and unit door again.



B Operating information and settings



5. Adjust return force of the cable line (only in units with pillar)

- To remove the cover of the cable line:
 - Remove 4 screws (s) on the upperside of the hood.
 - Draw the hood off forwards (in direction of door).

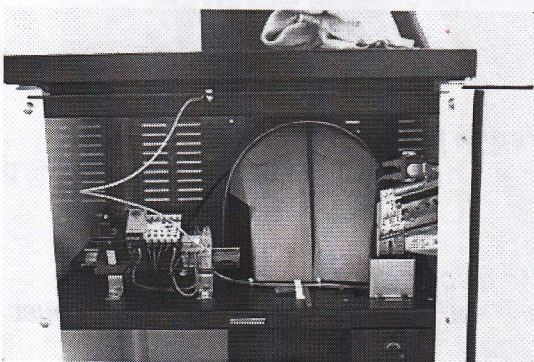
Increase the force

- Rotate spindle with special tool (t) in a counter-clockwise direction.



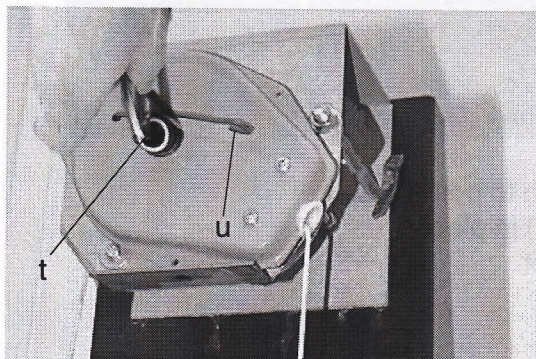
Important!

On delivery a special tool (t) is to be found behind the cover (m).



Reduce the force

- Carefully press the spring (u) upwards.
- After the adjustment fit the hood again and screw down tight.

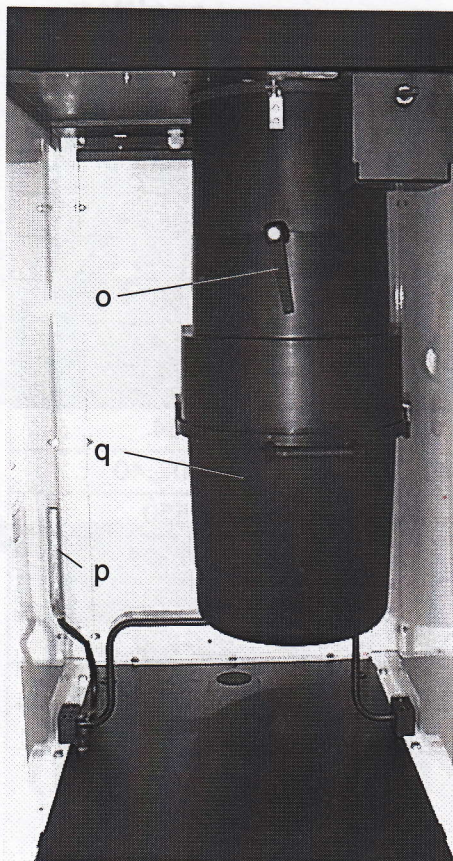


- a Vacuum line
- b Filter
- c Suction nozzle holder
- d Suction nozzle
- e Suction hose
- f Unit door
- g Push-button
- h Master switch
- i Suction turbine
- j Coin receptor unit
- k Time relay
- l Coin cassette
- m Cover
- n Filter housing
- o Lever for vibration device
- p Lever for removal of the dirt container
- q Dirt container

C Technical specifications

		1.261-...	1.263-...
Voltage	V	230, 1~	400, 3~
Frequency	Hz	50 / 60	50
Connected load	kW	2 x 0.8	1.5
Supply fuses	A	16	16
Vacuum	mbar	180	210
Air volume	l/s	2 x 50	56
Filter surface	m ²	0.4	0.4
Dirt container content	l	25	25
Sound level at 1 m distance	dB(A)	65	64
Ambient temperature	°C	-20...40	-20...40
Width	mm	550	550
Depth without pillar	mm	750	750
Depth with pillar	mm	900	900
Height without pillar	mm	1250	1250
Height with pillar	mm	1915	1915
Weight	kg	100	110

D Care and maintenance



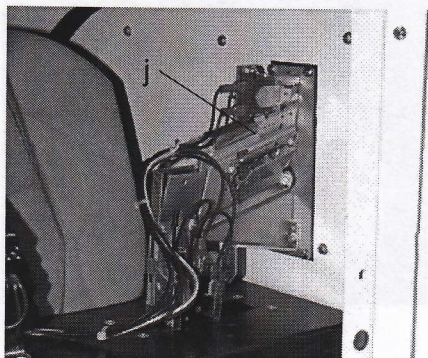
1. Cleaning the vacuum cleaner

The unit should be cleaned daily or at regular intervals (depending on suction operation and the amount of dirt).

- Open unit door.
- Unhitch rubbish container (g), empty it and attach it again.
- Shake filter bag by actuating the lever (o) 5 to 10 times.
- Wait for approx. 1 minute to let the dust settle.
- Swivel downwards lever (p) for dirt container-removal and remove dirt container (q).
- Empty dirt container.
- Clean sealing ring of the dirt container and check it for signs of damage.
- Replace dirt container. When inserting observe that the handle of the dirt container does not point straight forward.
- Swivel upwards lever (p).
- Close unit door.

A summary guide in picture form for the emptying of the dirt container is attached to the unit.

- Clean the housing of the unit with a household detergent.



2. Cleaning the coin mechanism

External effects or impurities on the coins lead with time to contamination of the coin-acceptor unit (j).



Danger!

Danger of injury due to electric shock.

Before any maintenance work the master switch must be turned to position "0".



Caution!

Malfunctioning due to bent deflecting springs. Do not bend the deflecting springs in the path that the coins follow.

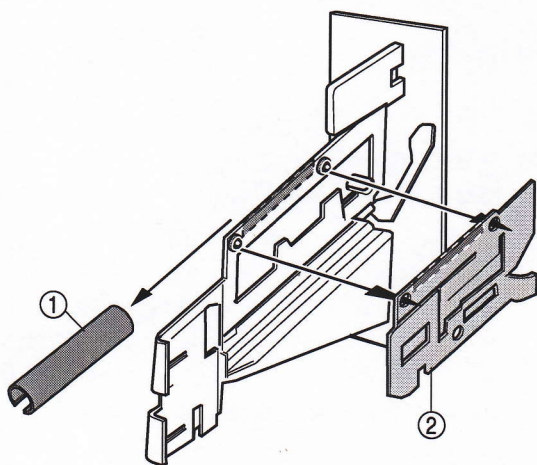
- Pull off spring clamp ①.
- Remove plate ②.
- Carefully clean coin mechanism with soft brush and cleaning liquid (e.g. benzine or spirit).



Important!

Do not apply oil to components.

- Refit plate ②, ensuring that deflecting springs in coin path are not bent.
- Reattach spring clamp ①.

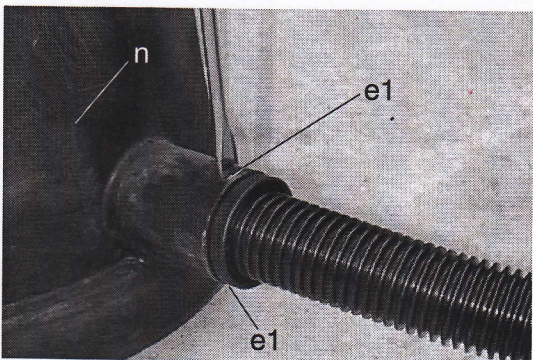


D Care and maintenance



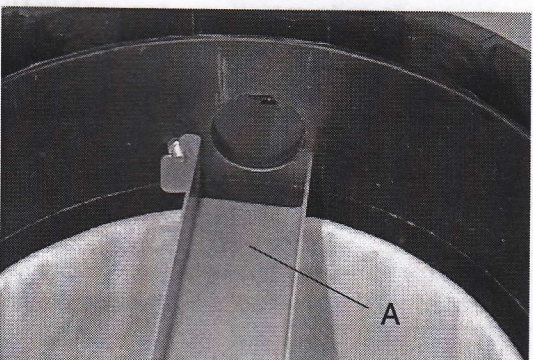
3. Dismantling the filter housing

- Remove dirt container.
- Screw off wing nuts (v)
- Pull off filter housing (n) in the direction of the door and remove it.



4. Removing the suction hose

- Dismantle filter housing (n).
- Press in the noses (e1) of the suction hose with a large screwdriver and draw out the suction hose.



5. Changing the filter bag

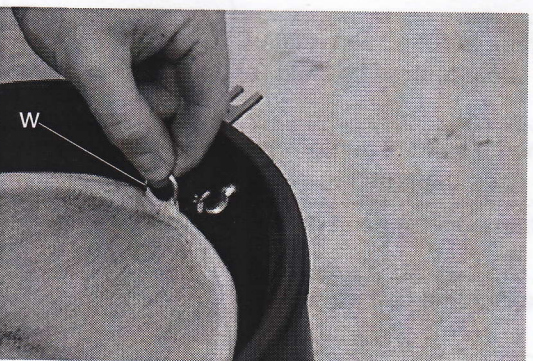
Dismantling:

- Dismantle filter housing.
- Press coarse dirt trap (A) downwards, turn it clockwise to unlock, then remove it.
- Lift out both eyelets (w) of the filter bag from the hooks on the filter housing.
- Draw out filter bag downwards from the filter housing.



Important!

Filter bags can be washed in a washing machine at 40 °C with a light-duty detergent. Let the filter bag dry thoroughly before using again.



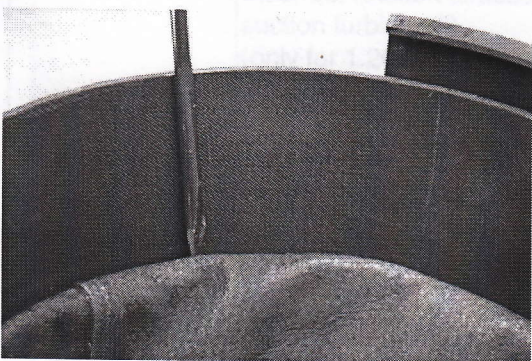
Reinstalling:

- Push the filter bag into the filter housing from below.
- Fix filter bag: Put on coarse dirt trap (A), press it downwards and turn it clockwise to lock.
- Rotate the filter housing and attach both eyelets (w) of the filter bag to the hooks of the filter housing.
- Rotate the filter housing and with a large screwdriver push the clamping ring of the filter into the recess in the filter housing.



Caution!

Danger of damage. Do not use any pointed objects for pushing on the clamping ring.



D Care and maintenance**6. Changing the sealing ring in the dirt container**

- When necessary tear out the glued-in, damaged sealing ring (x) and clean the recess.
- Glue in a new sealing ring with a commercially available contact adhesive.



E Troubleshooting



Danger!

Danger of injury due to electric shock.

Before working on the unit the master switch must be turned to position "0".

Who is permitted to repair faults?

■ **Operator**

Tasks designated by "Operator" may only be executed by instructed personnel.

■ **Qualified electricians**

Persons who have been professionally trained in an electrical engineering discipline.

■ **Customer service**

Tasks that are marked "Customer service" should only be carried out by Kärcher Customer Service engineers.

Fault	Possible cause	Remedy	by whom
Unit does not start up	Interruption of current supply.	Restore electrical connection. Check fuses, cable, plug and coupling.	Operator / electrician
	Motor protection switch has triggered (only for 1.263-... 400 V, 3~).	Reset motor protection switch. Contact Customer Service if it recurs.	Operator
	Coin-acceptor unit (j) contaminated.	Clean coin-acceptor unit (see Maintenance).	Operator
Insufficient suction power	Dirt container (q) not sitting correctly below the filter housing.	Reinsert dirt container.	Operator
	Filter bag dirty.	Shake off filter bag, clean, replace if necessary.	Operator
	Suction nozzle (d) or suction hose (e) blocked or damaged.	Check suction nozzle and suction hose, clean, replace if necessary.	Operator
	Sealing ring in the dirt container (q) is dirty or damaged.	Clean seal, replace if necessary (see Maintenance).	Operator
	Suction hose (e) incorrectly fitted.	Check firm seat of the suction hose in the filter housing.	Operator
	Inlet for suction air blocked.	Take off filter housing. Remove suction hose and clean inlet aperture.	Operator
	Incorrect rotation direction of the suction turbines (i) (only for 1.263-... 400 V, 3~).	Exchange the phase.	Customer Service / electrician
	Suction turbine (i) defective.	Check carbon brushes, replace if necessary (only for 1.261...230 V, 1~).	Electrician
Dust emerges when vacuuming	Filter bag incorrectly installed or defective.	Check filter bag, replace filter bag if necessary.	Operator

E Troubleshooting



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	Motor protection switch has triggered (only for 1.263-... 400 V, 3~).	Reset motor protection switch. Contact Customer Service if it recurs.	Operator
	Coin-acceptor unit (j) contaminated.	Clean coin-acceptor unit (see Maintenance).	Operator
Insufficient suction power	Dirt container (q) not sitting correctly below the filter housing.	Reinsert dirt container.	Operator
	Filter bag dirty.	Shake off filter bag, clean, replace if necessary.	Operator
	Suction nozzle (d) or suction hose (e) blocked or damaged.	Check suction nozzle and suction hose, clean, replace if necessary.	Operator
	Sealing ring in the dirt container (q) is dirty or damaged.	Clean seal, replace if necessary (see Maintenance).	Operator
	Suction hose (e) incorrectly fitted.	Check firm seat of the suction hose in the filter housing.	Operator
	Inlet for suction air blocked.	Take off filter housing. Remove suction hose and clean inlet aperture.	Operator
	Incorrect rotation direction of the suction turbines (i) (only for 1.263-... 400 V, 3~).	Exchange the phase.	Customer Service / electrician
	Suction turbine (i) defective.	Check carbon brushes, replace if necessary (only for 1.261...230 V, 1~).	Electrician
Dust emerges when vacuuming	Filter bag incorrectly installed or defective.	Check filter bag, replace filter bag if necessary.	Operator

Suction hose NW 50, 5 m

Order no. 4.440-606

F 1

For specialists only**G Installation****1. Installing the unit****Important!**

The unit may only be installed by

- Kärcher Customer Service fitters.
- Persons authorised by Kärcher.

1.1. Preparing the installation site

In order that the system can be installed correctly, please observe the following:

- A horizontal, even site with a size of at least 700 x 900 mm (700 x 750 without pillar) must be available.
- electrical connection, see Technical specifications,
- Electrical mains in accordance with table of specifications (see section G.4).
- Four mounting holes Ø 12 mm, 75 mm deep, drilled in accordance with the table of specifications (see section G.4).

1.2. Unpacking the unit

- Unpack the unit and forward the packaging material for recycling.
- Take the rubbish container and the dirt containers out of the unit and lay them to one side.

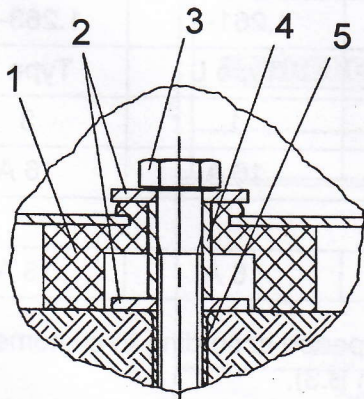
1.3. Installing and aligning the unit**Danger!**

Danger of injury from unit overturning.

The unit must be screwed firmly to a solid, load-bearing foundation.

Use the supplied mounting material as follows:

- Insert plugs (5) in the drill holes which have been made.
- Place the unit on the prepared base. While doing so guide the cable for the power supply through the opening in the base of the unit.
- Push the bushings (4) into the rubber cushions (1).
- Add the washers (2) as shown in the drawing.
- Insert the screws (3) and tighten.
- Install the upper part of the pillar (see accompanying fitting instructions 0.082-374).

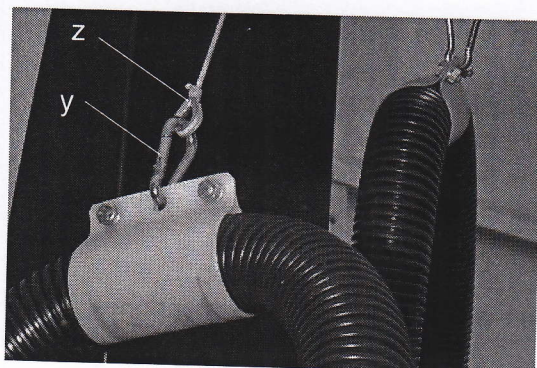


For specialists only

G Installation

1.4 Connect suction hose

- Dismantle filter housing (n) (see Section D.3).
- Guide suction hose (e) from outside through the opening in the rear panel.
- Push end of the suction hose into the connection piece of the filter housing. The fastening tabs must engage in the recesses in the supports.
- Install filter housing again.
- Hang suction nozzle (d) in the holder (c) again.
- Only in units with pillar:
Hook spring hook (y) of the hose into the ring (z) of the cable line.



2. Connecting the mains electricity supply



Danger!

Dangerous voltage. The electrical installation should only be carried out by a qualified electrician in accordance with current local regulations.

- Compare the voltage specification on the type plate with the local mains supply.
- Check the fusing of the on-site power supply connection.

	1.261-...	1.263-...
Line protection switch	Type L	Type L
Number of poles	1	3
Rated current	16 A	16 A
or		
Fuse	16 A	16 A

- Set vacuuming duration period according to customer's requirement (see section B.3).
- Connect the cable already led through the opening in the base with the master switch in accordance with the supplied circuit diagram.



Important!

The interference suppression filter already fitted must not be removed when connecting to the power supply.

- Only for 1.263-... (400 V, 3~):
Check direction of rotation of the suction turbines, if necessary change the phase.

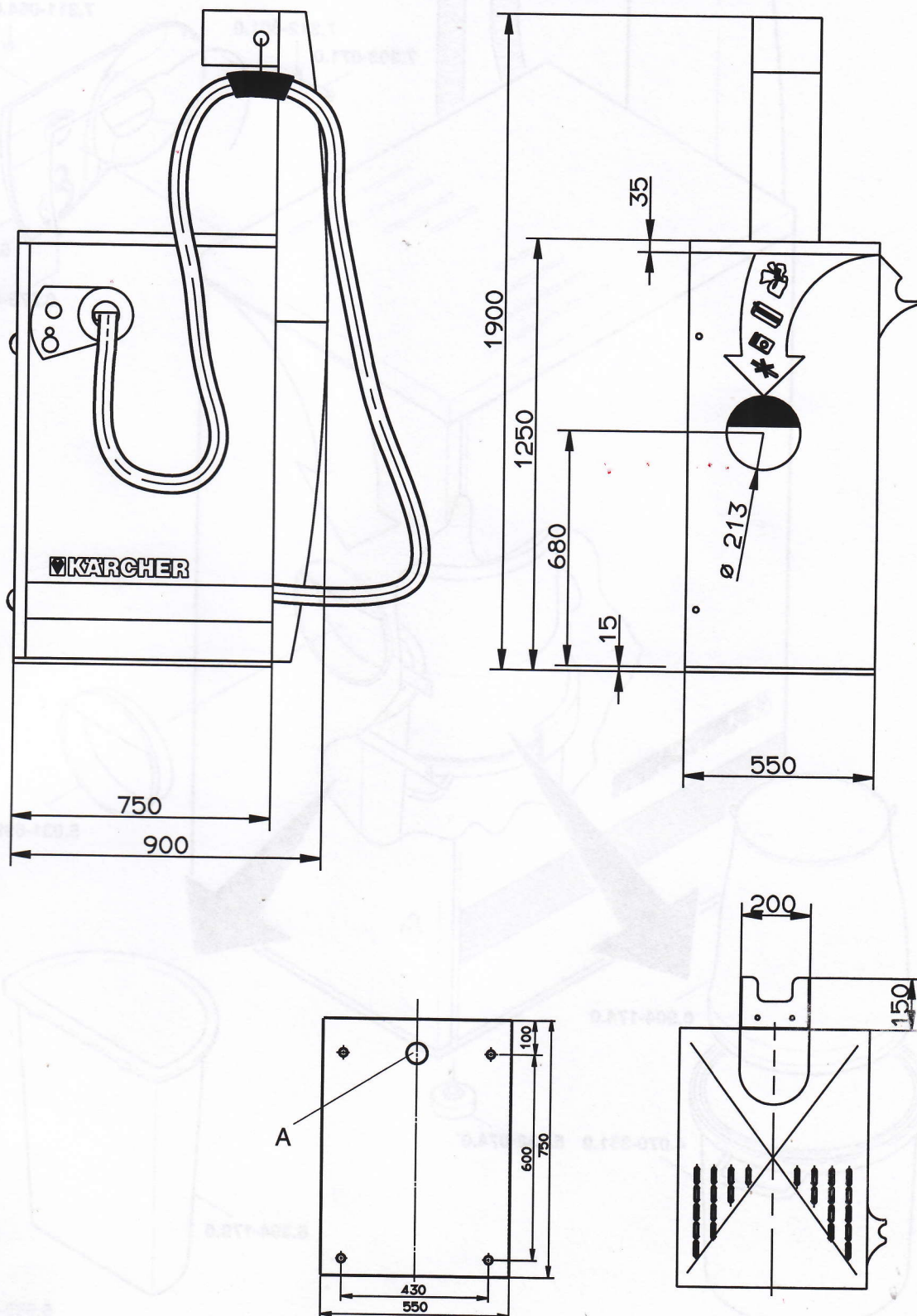
For specialists only

G Installation

3. Taking the unit into operation

- Install dirt container (q).
- Attach the rubbish container (g) to the unit door.
- Check the functioning of the unit.

4. Table of specifications



A Power supply

