

Brush Pro 20

Carpet Cleaning Machine

Operator's Manual

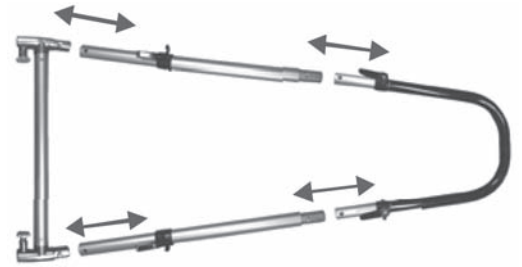


HF HYDRO-FORCE

Please read the Operator's Manual completely before using the Brush Pro, and pay close attention to the safety advice.

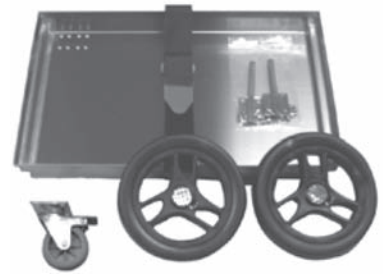
CONTENTS

HANDLE – 4 PIECES



TRANSPORT TROLLEY

Including three wheels and fixing devices.



BRUSHING MACHINE

Including two brushes and two brush covers.



TWO RECEPTACLES

Dirt receptacles.



GRID CABLE

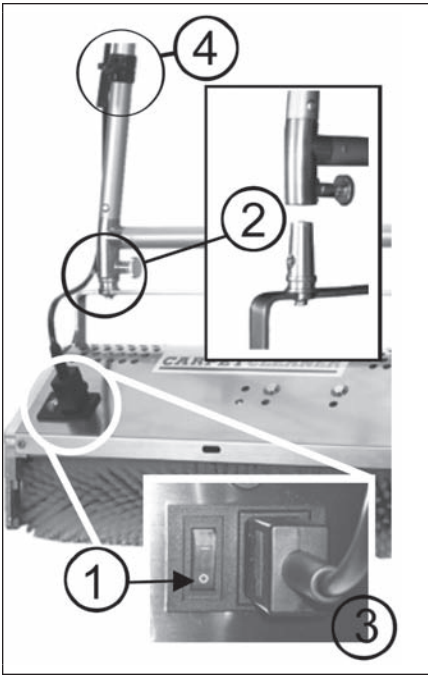


ACCESSORY HOLDER



CLEANING BRUSH



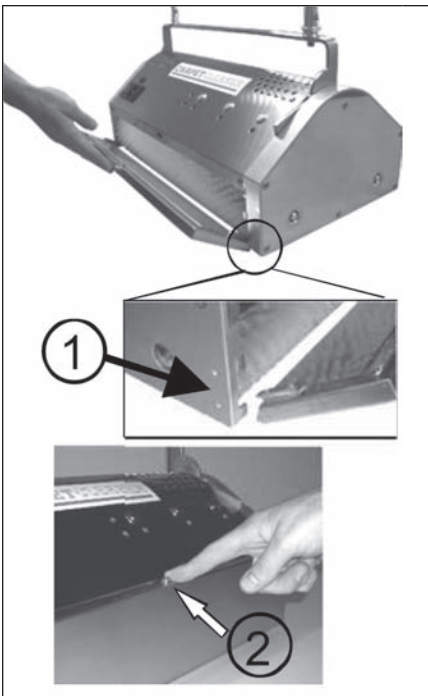


ASSEMBLING

- 1 Make sure the on/off button is placed in the “O” position (off).
- 2 Connect handle parts together by sliding the holding bar into the socket holes of the lower bar and apply pressure until you hear it click in place. Slide complete handle on the base connection, push down, and secure with the locking device (bolt).
- 3 Plug the power cord into the rear of the machine located next to the on/off button
- 4 Affix cable into clips placed along side the handle bar.



ATTENTION: Place the machine on storage tray/trolley or lay the machine on its side when not in use to prevent brush damage.



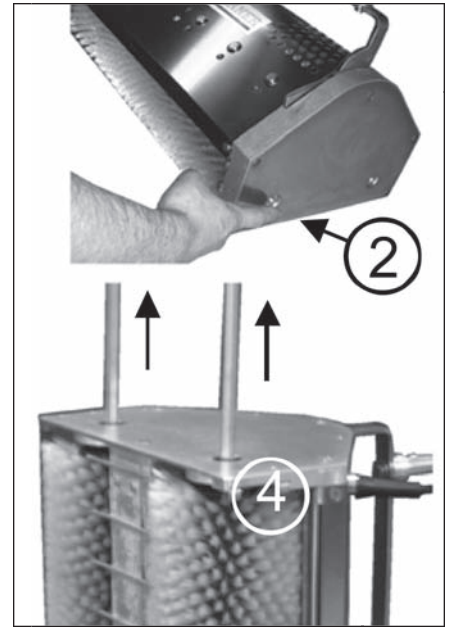
MOUNTING RECEPTACLES AND BRUSH COVERS

- 1 Attach the receptacles or brush cover to the front and back of the machine by holding the receptacle or brush cover at an angle to place it into the mounting support at the bottom sides of the machine, then lift towards the machine, once in upright position push against the machine until it is secured into the push button locking device.
- 2 To detach the receptacle or brush covers press the button on top of the receptacle or brush cover to release the lock and lift to remove.

CHANGING BRUSHES

NOTE: Use original Brush Pro brushes ONLY!

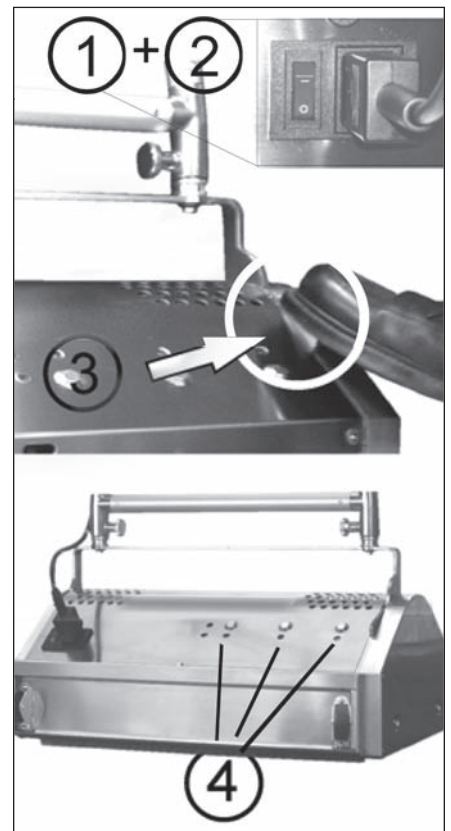
- 1 Before changing the brushes on the machine put the main switch in the “O” (off) position and unplug it from the power outlet.
- 2 Lay the Machine on its right side, press the axle, and pull out the rod.
- 3 Remove and exchange both brushes.
- 4 Replace each brush by holding them in place while inserting the axle rod through the top into the machine and through the brush until it is securely in the opposing side. DO NOT USE FORCE. If there is tension manipulate brush slightly clockwise and axle slightly counter clockwise until it fits. Force is not needed.



USING THE MACHINE

STARTING THE MACHINE (SWITCH ON/OFF)

- 1 With the main switch in the “O” (off) position connect the power cord into a power outlet. US-grid 110V.
- 2 Put the main switch button to “I” (on) position and the green signal light will turn on.
- 3 Press the safety catch lever with your foot and tilt handle to maneuver.
- 4 Press push buttons on the front of the machine for desired brush speed; Level I = slow, Level II = regular, or Level III = fast.
- 5 To stop the machine put the handle in an upright position.





CLEANING WITH THE MACHINE

- 1 Place the main switch to the "O" (off) position, unplug the machine from the power outlet and attach the receptacles. Once receptacles are secure in place, re-connect the power cord into the power outlet and turn on the machine by switching it to the "I" (on) position. Use the receptacles to remove loose soil from the carpet.
- 2 Once loose soil is removed, turn the machine off, unplug it from the power outlet, detach the receptacles and attach the brush covers.
- 3 Prespray carpet with appropriate encapsulating product. May also be used to agitate prespray before hot water extraction.
- 4 Turn the machine on and brush encapsulant into carpet in all directions.

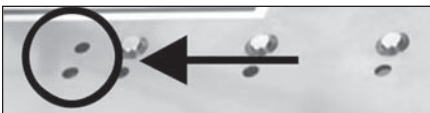
MACHINE MAINTENANCE



DAILY MAINTENANCE

- 1 When cleaning the machine, always make sure the machine is unplugged from the power outlet.
- 2 Remove brushes (see instructions above.) Remove remaining dirt using the included cleaning brush. (if unavailable, clean/new soft paint brush will be sufficient.)
- 3 Re-insert brushes as instructed above.
- 4 It is recommended to clean the machine at the end of each day it's used..

TROUBLESHOOTING



RED SIGNAL LIGHT ON

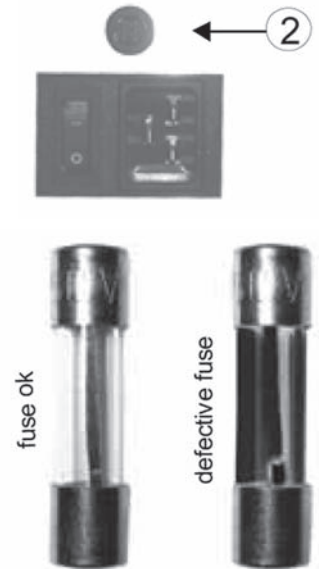
- 1 Electronic switch –off of the motor case of overload. Red signal light will be on. Before checking the possible origins of the overload, set the main switch at "O" (off) and pull the cable plug from the grid.
- 2 After repair of the overload and machine cool-off, it can be re-started.

STARTING PROBLEMS

Tilt machine sideways when starting.

FUSE GONE

- 1 Always put the main switch on the “O” off position and unplug the machine from the power outlet before changing a defective fuse.
- 2 Change the defective fuse with a screw driver.



TECHNICAL DATA

Three-Phase A.C. Motor	500W / 230V / 50Hz
Brush Rotation Speed I	280 rpm
Brush Rotation Speed II	400 rpm
Brush Rotation Speed III	520 rpm
Working Width	18"
Width	20"
Depth w/o receptacle	11.2"
Depth w/receptacle	19.3"
Height w/handle	45.6"
Height w/o handle	8.4"
Weight	51 lbs.

WARNING

ALWAYS turn off and unplug the appliance from the power outlet when attaching/detaching any and all parts! DO NOT plug in the power cord before assembly is finished. Read instructions before use. Keep away from children. Make sure the on/off button is placed in the "O" (OFF) position.

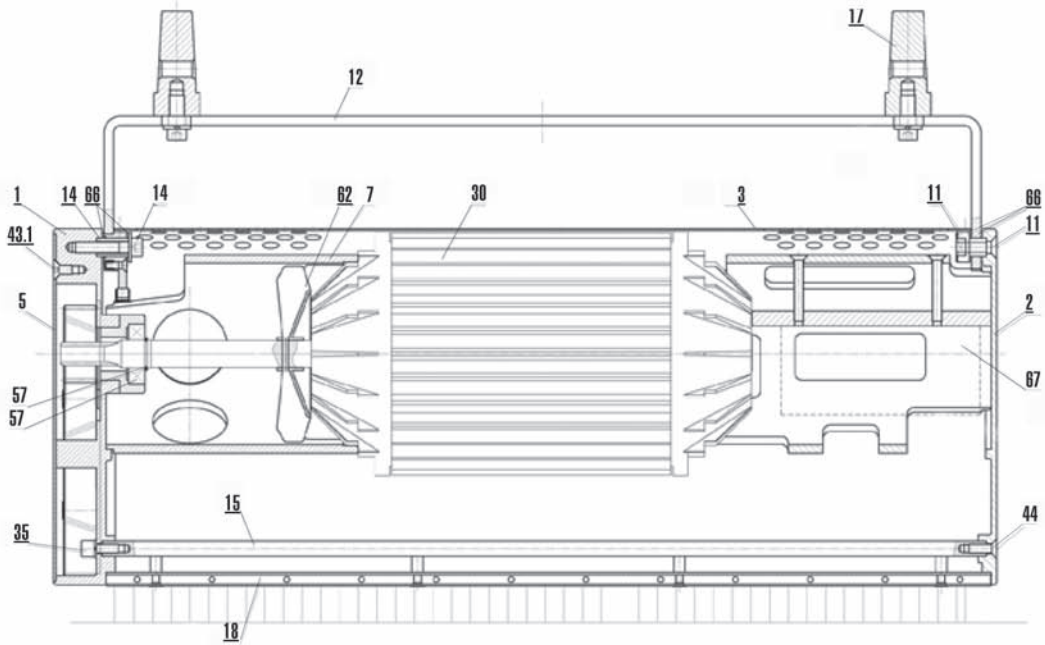
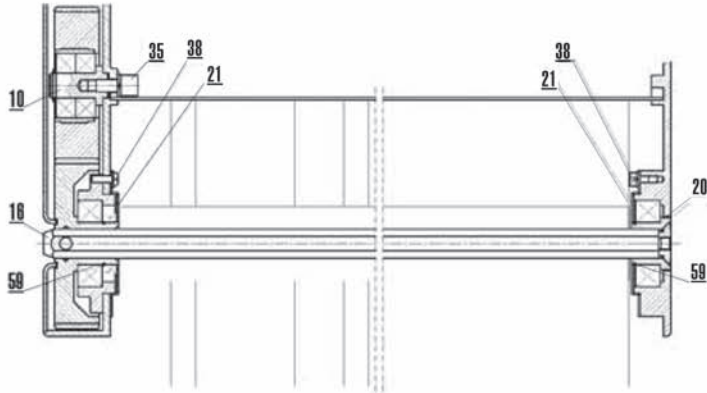
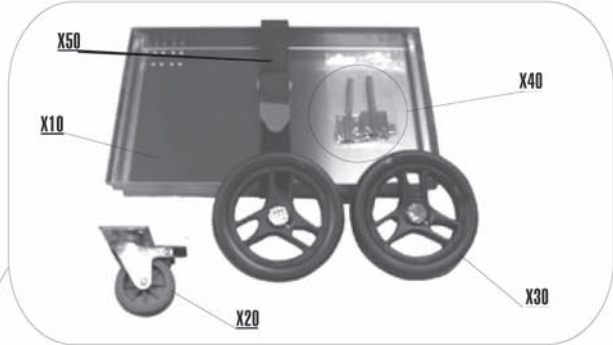
ELECTRICAL SHOCK/PHYSICAL INJURY HAZARD

The machine's power cord must be completely unplugged from any power source/wall outlet prior to any disassembly, maintenance or repair. Never connect to power or attempt to operate this machine unless it is completely assembled and all covers are installed.

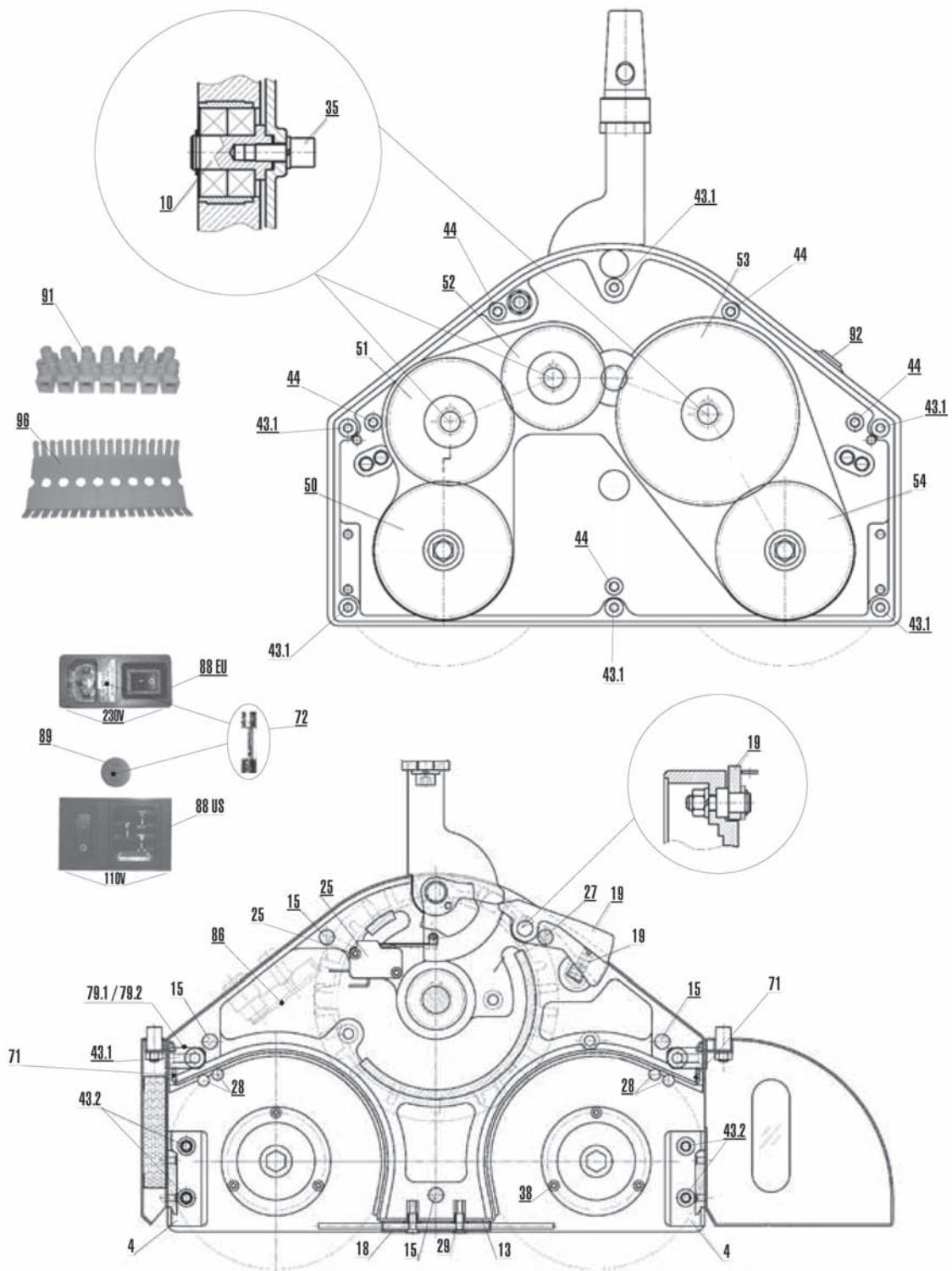
CAUTIONS /SAFETY ADVICE

- This machine is not suited for picking up any hazardous dust or materials.
- This machine has been designed for encapsulation or prespray agitation and must not be used or stored outside in wet conditions.
- This machine is for the use of original Brush Pro 20 brushes only (see also user instructions). The use of other brushes may impair the safety of the machine and its user and may void any applicable warranties.
- The plug mounted on the machine may only be used for the purpose as described in the user instructions.
- The machine may only be used by individuals who have been instructed in its use and given authority to do so.
- The machine's power cord must be completely unplugged from any power source/outlet before cleaning, maintenance or replacement of parts.
- Make sure the electric cable is not damaged in any way by running over it, squashing or tearing it, etc. Continually check the cable. The machine must not be used if it is not in perfect working conditions.
- Cable must be replaced by spare part# 76 or a H 05 V V F 3×1 mm² cable.
- Machine must be fitted with power safety switch with a capacity of 16 AMPS.
- Before starting the machine check the compatibility of the carpet with the brushes used. Choose the brush according to the degree of soiling and the type of carpet. Not suited for Woolberber and deep pile carpets.

BRUSH PRO 20 — SPARE PARTS



BRUSH PRO 20 – SPARE PARTS



PARTS

Part#	Description	# of units
S1	Gear plate, complete, without gears	1
S3	Side plate, complete	1
S4	Machine cover incl. pushbuttons, conductor board and power inlet module.	1
S5	Receptacle mounting sheets.	4
S7	Gear cover	1
S10	Motor shaft case	1
S11	Bearing shaft with screw-set and lock ring	1
S12	Handle axle, right incl. screw	1
S13	Handle holder with camshaft	1
S14	Brush cover	1
S15	Bushing—handle axle, right incl. screw and disc	1
S16	Tension rod “15”	1
S16	Brush axle.	1
S17	Handle mounting cones with screw-set.	1
S18	Cable protector	1
S19	Handle stop with bolt, nut, spring, lock ring and disc.	1
S20	Flange for bearing nut with lock ring.	1
S21	Bearing cover	4
S25	Microswitch with screw-set.	1
S27	Tension rod “27”	1
S28	Compound accelerator rod + 2 hexagon socket set screw.	1
S29	Screw-set for cable protector	8
S30	Motor with fan and ball bearing	1
S35	Screw set for bearing shaft	3
S38	Screw-set for bearing cover	12
S43.1	Screw-set for machine cover and gear cover	10
S43.2	Screw-set for receptacle mounting sheet	8
S44	Screw-set for tension rods	10
S50	Gearwheel 62 left incl. ball bearing.	1
S51	Gearwheel 57 incl. ball bearing	1
S52	Gearwheel 42 incl. ball bearing.	1
S53	Gearwheel 83 incl. ball bearing	1
S54	Gearwheel 62 right incl. ball bearing	1
S57	Ball bearing for motor shaft with lock ring	1
S59	Snap ring for gear wheel 62	4
S62	Ventilator	1
S66	Washer polyamid	4
S67	Frequency converter incl. mounting plate and housing	1
S71	Sealing strip	2
S72	Fuse	1
S76EU	Grid cable with plug	1
S76US	Grid cable with plug	1
S79.1	Mounting block-set for gear plate.	2
S79.2	Mounting block-set for side plate.	2
S80	Handle complete	1
S85	Cable holder.	4
S86	Conductor board incl. equipment	1
S88US	Power inlet module.	1
S88EU	Power inlet module.	1
S89US	Fuse holder incl. fuse	1
S91	Terminal block.	1
S92	Pushbutton for machine cover	1
S96	Wire fixing plate	1
SX10	Tray of transport trolley	1
SX20	Guide roll incl. screw set	1
SX30	Standard wheel	2
SX40	Spindle incl. screw set.	1
SX50	Belt incl. fixing plates and blind rivets	1
SX60	Transport trolley complete.	1