THE INNOVATORS IN SURFACE PREPARATION

BLASTRAC

OPERATING MANUAL BS-110 II

VERSION 2.0

WWW.BLASTRAC.EU • INFO@BLASTRAC.EU

BLASTRAC

EC DECLARATION OF CONFORMITY
in accordance with Appendix II sub A of Directive 2006/42/EC

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Declare under our sole responsibility that the machine as described below conforms with the Health and Safety requirements of the European Directive of the machine Safety.

In case of changes to the machine without our written authorization this declaration loses its validity.

Model: ***BLASTRAC*** ***BS-110 II***
Serial number: ***XXXXXXX-XX-20XX***

1. satisfies the conditions set out in the Machine Directive (Directive 2006/42/EC); EMC directive 2004/108/EC, as last amended)
2. satisfies the following harmonized standards:
   EN 12100-1, EN 12100-2, EN60335-1 and EN55014-1

Nieuwegein 12-01-2011

Michiel Kalisvaart

CE

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1 RULES FOR SAVE OPERATION

Non observance of the symbols, which you can see in the instruction manual or on the machine, may result in serious injury or death for the user and other persons.
Read, understand and follow all the clues / hints, which are situated in the machine or in the instruction manual.

1.1 Electric Connection

Always disconnect power plug before servicing.
Maintenance, replacement or adjustment of hydraulic fluid or other parts can cause serious injury or death to the user or other persons, if the machine is connected to the power supply system.

Keep the cable away from the blade to avoid damage of the cable.
Run over or damage of the cable can cause an electric shock.

The machine is constructed for inside-usage only.
Danger of electric shock. Do not expose the machine to water or rain.

Connection: power supply system – machine
Only to the given ranges on the type plate.
Check before usage.

Connection: cable – machine only with authorized cable.
Europe Cable – Type: HAR HO5VV-3x2,5 mm²
Connector / Plug – Type: 2P+T16A-250V
Using cables with to little average or excessive length can cause damage to persons and objects.

Electrical equipment like cables or plugs must be controlled / renewed by an authorized electrician.
Risk of injuries or fatalities by wrong electrical connection

Never operate with a damaged cable or connector.
Replacement of worn or damaged cables or connectors has to be effected by a specialist or a similar qualified person.

Improperly connecting the grounding wire can result in risk of electric shock.
Check with a qualified electrician if your in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the cord or plug is damaged. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Do not use machine when cable is damaged
Don't move the machine by dragging the cable. Utilization with a damaged cable can cause an electric shock.

1.2 Staff

The operator has to be instructed to the use of the machine before operating.
Non observance of the instruction manual before commissioning, adjustment or maintenance could cause serious injury to personal or objects.

Read unexceptionally all security statements. Be sure that type plate, security symbols as commandments, warnings, precautions and the directives are mounted / fixe to the machine.
Non observance of the directives inside this manual may cause serious injury or damage.

Always wear eye-protection, protective suit, dust-mouthguard / dust respirator and ear-protection during the usage of the machine. The noise that appears while removing flooring can be so intense that at long term use it may cause injury of the auditory tube. Working without appropriate security equipment, as for instance a protective suit, can injure eyes and body. Arising airborne dust may be inhaled when wearing no mouthguard.

Keep arms, feet and clothes away from the operating machine parts.
Moving parts of the machine can cause serious injury or damage.

1.3 Usage

Fluid under pressure is dangerous and can cause serious injury.
Leaking hydraulic fluid is not only unsightly, it's hazardous. In addition to making workplace floors slippery and dangerous, leaks also contaminate the environment. Our system runs at or below 83 bar. Never look for a leak when unit is under pressure. Only check and service when not under pressure.
Fluids under pressure can cause serious injury. If fluid punctures the skin, even if no pain is felt, a serious emergency exists. Obtain medical assistance immediately. Failure to do so can result in loss of the injured part or death.

Escape of hydraulic fluid
Pinhole: It can be almost invisible escaping from a pinhole, and it can pierce the skin into the body. Do not touch a pressurized hydraulic hose assembly with any part of your body. Leak: Keep hoses and fittings tight. Only check and service when not under pressure.
Never check for leaks over hose or hydraulic connections with any part of your body. Instead, use a piece of cardboard to locate a pressurized leak. For drips (low pressure leaks), use a rag to clean the area and determine where the leak originates.

Flammability of hydraulic fluids
With the exception of those compromised primarily of water, all hydraulic fluids are flammable when exposed to the proper conditions (including many "fire-resistant" hydraulic fluids). Leaking pressurized hydraulic fluids may develop a mist or fine spray that can flash or explode upon contact with a cause of ignition. These explosions can be very severe and could result in serious injury or death.
Precautions should be taken to eliminate all ignition sources from contact with escaping fluids, sprays or mists resulting from hydraulic failures. Sources of ignition could be electrical discharges (sparks), open flames, extremely high temperatures, sparks caused by metal-to-metal contact.

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2 PRODUKT INFORMATION

2.1 Technical Description

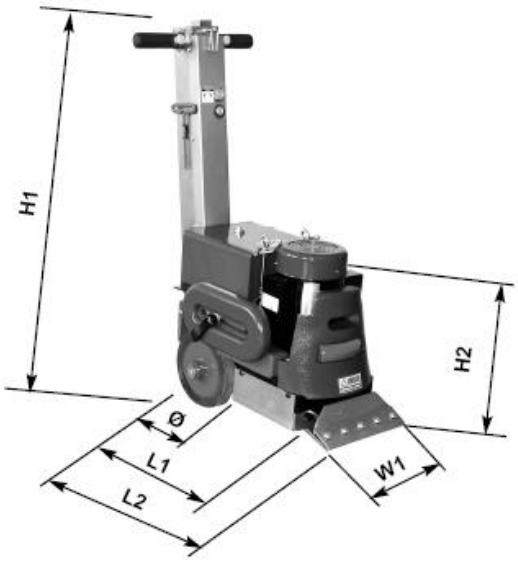
Hydraulic-Technology applied on the tried and tested Stripper-Features:
- Compared with other Strippers the "Strato Mobil Hydraulic" works extremely quietly, allowing use in "working" environments
- Very easy operation achieved through automatic drive with forward and backward function
- Removeable weights for easier transport
- Virtually maintenance-free hydraulic components

2.2 Technical Specifications

Dimensions
Height H1 104 cm
H2 50 cm
Length L1 80 cm
L2 62 cm
Wheel Ø 22 cm
Width W1 30 cm

Weight
Machine 113 kg (249,12 lbs)
Counterweight - front 20 kg (44,09 lbs)
Counterweight - side 18 kg (39,68 lbs)

Motor
Power Supply 230V/50Hz
Motor Power 1,1 kW
Voltage 8 Amp



2.3 Accessory

1. Counterweights
It is not necessary to have counterweights on to use machine. Use only as needed.

Each counterweight is attached with two bolts. Remove bolts with supplied blade wrench.

Weights are heavy, use caution when removing or remounting.

2. Blades
Blade 111 700 101 - 305 x 76 x 1,6 mm
Blade 111 700 102 - 152 x 127 x 1,6 mm
Blade 111 700 103 - 254 x 76 x 1,6 mm
Blade 111 700 104 - 254 x 76 x 3,0 mm

3. Extension Cable 10,0 m

4. Assembly tools

5. Transport Wheels

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3 TRANSPORTATION

3.1 Transport Wheel Assembly

Transport wheels help to eliminate damage to flooring and make movement of unit easier.

1. Remove two outside blade cover bolts.
See figure 3.1 - A
Make sure machine is stable and secure on blocks.

2. Tip machine back and block front of machine so that the cutting head has enough clearance for front wheel assembly to fit under.
See figure 3.1 - B
or lay unit on side and block up
See figure 3.1 - C

3. Mount front wheel assembly over blade cover.
Replace two outside blade cover bolts.
See figure 3.1 - A

4. Remove blocks.
Do not leave machine in transport mode while in transit in vehicle without machine being secured.

To remove the transport wheels reverse procedure from above.

FIGURE 3.1 A

FIGURE 3.1 B

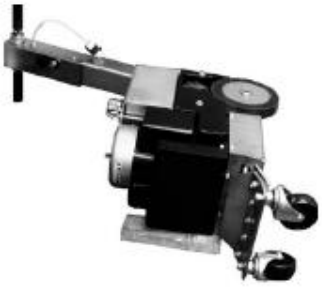

FIGURE 3.1 C

3.2 Loading / Unloading

Always remove all counterweights and blades before loading or unloading.
See figure 3.2 – A

FIGURE 3.2 A

3.21 Lifting bail

See figure 3.2 - A

Easy loading when not driving or using a ramp. Location on lifting bails centrally locates the balance of the machine to safely pick-up the machine.

1. Use a rope, a hook system or a chain through the eyelets which are located on top of the machine.

2. Raise machine with a fork lift or a winch.
Keep hands and feet out from under machine.

3.21 Loading Ramp

See figures 3.2 - B and 3.2 - C.

Make sure the ramp is clean and dry, free of grease or oil.

1. Attach ramp securely to back of vehicle, making sure there is good contact.

2. Position machine at back of ramp, respectively at head of ramp.

3. Engage power switch and drive onto vehicle, respectively drive out of vehicle.

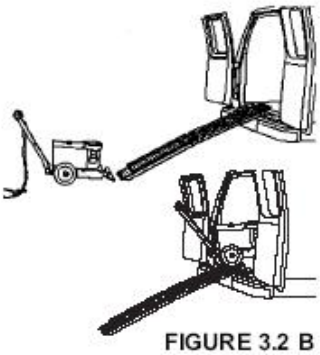

FIGURE 3.2 B

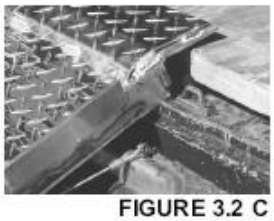

FIGURE 3.2 C

Lowering handle may be necessary for proper clearance into the back of smaller cars.

Make sure ramp is secure before using. Failure to do so could cause ramp to fall away from truck, causing damage to the machine and/or injury to the operator.

The Loading Ramp can fold up on the half for easier transport
See figure 3.2 - D

FIGURE 3.2 D

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3.3 Wheels engaging or disengaging

Engage Mode
Wheels engage and disengage for easier maneuverability. Wheels in the "engage mode" are secured with the axle pins. This engages the wheels for the machine to be self-propelled.
See Figure 3.3 - A

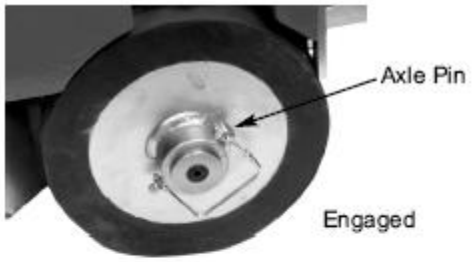

FIGURE 3.3 A

Disengage Mode
When wheels are in the "disengage mode" Machine can be moved around freely when the machine IS NOT under power.
See Figure 3.3 - B

FIGURE 3.3 B

Disengaging wheels
Move machine so pin is vertical. Pull up on end of pin to release. Slide pin out. Repeat on second wheel.
See Figure 3.3 - C
Keeping axle pin facing straight up will make re-engaging easier.

re-engaging wheels
Line up wheel hub hole and axle hole. Insert axle pin and secure pin end. Repeat on second wheel.
See Figure D

Never load or unload machine on a ramp or incline when wheels are in the disengage mode. Failure to do so could cause machine runaway, damage to machine, damage to property or cause serious injury.

Never have transport wheel assembly mounted onto machine when wheels are in the disengaged mode.

FIGURE 3.3 C

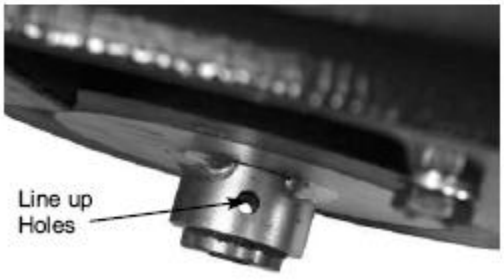

FIGURE 3.3 D

4 SETUP

4.1 Hydraulic fluid

Keep hydraulic fluid clean and on specified definite level. Only use a ISO32 compatible light fluid.
Non-compatible fluids could cause damage to unit or serious injury.

4.1.1 Hydraulic fluid level

See figure 4.1 – A

The machine has a fluid level sight window. The fluid should be in the middle to the top of the window when the machine is sitting in a normal operating position without a blade. If your machine does not have a sight window, fluid should be ca. 2,5 cm (1") from the top of the tank.

FIGURE 4.1 A

Check fluid level if there has been a leak, damaged or ruptured hose or a loose fitting.

Change the complete fluid once a year
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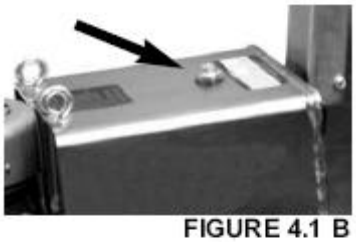


FIGURE 4.1 B

4.1.2 Adding or changing hydraulic fluid

To add fluid, unscrew the filler port cap from top of the machine.
See figure 4.1 - B

To change fluid, remove the filler port cap. Remove drain plug from side of machine.
See figure 4.1 - B and 4.1. C

A container approximately ca. 9 litres (two gallons) in size will be needed to drain fluid into.

Machine has a straining system, but add fluid through a filter or funnel with a screen to keep fluid clean.

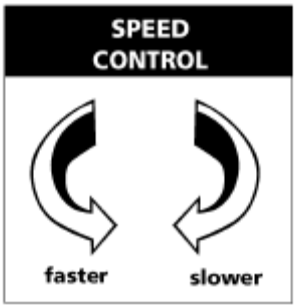
FIGURE 4.1 C

4.2 Speed control

Speed control knob can be adjusted while the machine is running

Turning speed control knob counter clockwise will make the machine run faster.

Turning speed control knob clockwise will make the machine run slower.



4.3 Blade

4.3.1 Blade Choice

Proper blade size and placement, depending on material and sub-floor type, affects performance.

- The harder a job comes up, for best results, use a smaller blade.
- Start with a narrow blade, then increase the blade size to optimize the cutting pass.
- Narrower blades work easier than wider blades.
- Narrower blades usually clean the floor better.
- Normally bevel on blade is up for concrete. Bevel down for wood or soft sub-floors.

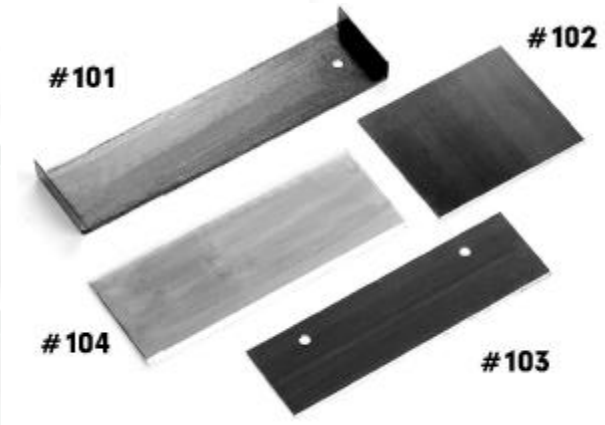
4.3.2 Blade Versions

Blade #101 - 30,5 x 7,6 cm, thickness 1,6 mm
self-scoring blade, bevel up, carpet, soft (PVC, linoleum, rubber)

Blade #102 - 15,2 x 12,7 cm, thickness 1,6 mm
tile or linoleum on wood floors, difficult surfaces (ceramic, hardwood, heavy tile, etc.)

Blade #103 - 25,4 x 7,6 cm, thickness 1,6 mm
carpet, tile or resilient on wood & concrete floors

Blade #104 - 25,4 x 7,6 cm, thickness 3,0 mm
carpet, tile, PVC, Vct, tough coatings, hardwood & cork



4.3.3 Blade Changing

Dull blades greatly reduce cutting ability. Re-sharpen or replace as needed

Always wear gloves when changing blades. Use supplied extended wrench to keep hand safely away from the edge of the blade.

1. Place a bock under the front of the machine.
See figure 4.3 - A

FIGURE 4.3 A

2. Loosen the five hex head bolts with the extended bolt wrench and replace the blade.
See figure 4.3 - B

It is not necessary to remove the bolts.

Be sure that the blade is far enough under the blade-holder, to insure a secure hold.

FIGURE 4.3 B

4.3.4 Blade Sharpening

<u>Always wear gloves and safety glasses.</u>

It is not necessary to remove the bolts.

FIGURE 4.3 C

1. Sharpen the blade mounted to the machine.
Using hand grinder, block up front of machine
so blade is off the floor.

Sharpen the blade with a 10 cm diameter disk with 120 or finer grit.

Be careful not to catch disk on edge or corner of blade.

Blade bevel up, see figure 4.3 - C
Blade bevel down, see figure 4.3 - D
Using a good quality fine tooth hand file,
use same procedure as above, see figure 4.3 - C

FIGURE 4.3 D

2. Sharpen the blade separately at a vice.
Furthermore there is the opportunity to remove the blade from the machine and to sharpen the blade at a vice, obeying the same procedure as shown in "1.".

FIGURE 4.3 E

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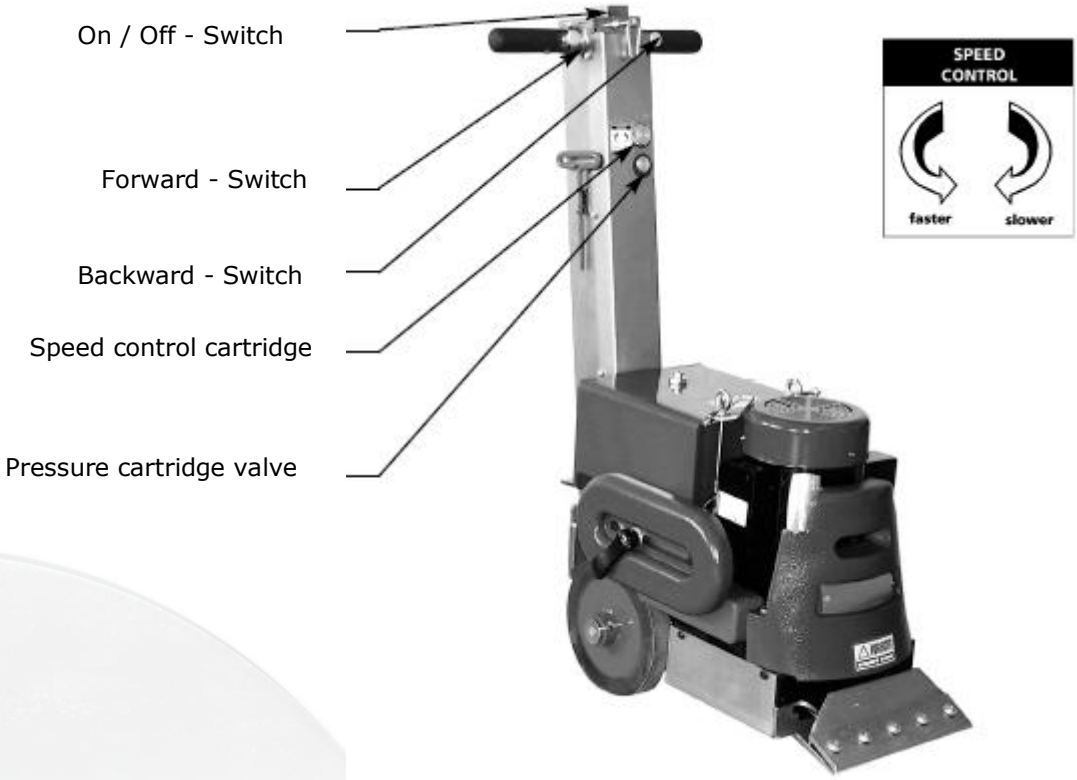
5 OPERATION

5.1 Actuators



5.2 Initial Operation Phase

The machine must be off before plugging the machine into power source.

1. Plug machine into outlet.

2. Turn speed control to slowest position.

3. Turn the machine on.

4. Engage forward or reserve switch.

5. Increase speed control to desired speed.

The pressure valve has been factory set and should not be tampered with.

Do not lock the wheel drive into a permanent position. If the operator would lose control or be disabled, the machine continues to operate.

5.3 Types of tear outs

Keep blades sharp! Keep your work area clean and clear of debris.
Always wear eye- and ear- protection when working with the machine.

5.3.1 VCT - Tile

Never use a blade wider than the size of the tile being removed.

If goods being removed still do not come up clean or the machine jumps on top of goods, reduce blade size to a smaller blade until proper blade size is found or use a smaller portion of the blade.
See figure 5.3 - A

FIGURE 5.3 A

5.3.2 Vinyl-, Rubber, PVC, Direct Glued Carpet

Goods will need to be scored down to 10 to 12 inches for proper removal.

Pre-scored carpet makes machine easier to control and blades stay sharper longer. Blades up to 16" wide can be used. Normally 12" to 14" blades are used on direct glued carpet, secondary backed, unitary, double glued, vinyl foam, urethane foam. Latex foams come up easily with a 16" blade.

Self scoring blades can be used with some materials. A 10" blade is recommended for this product, but determine what size blade works best.

See figure 5.3 - B and 5.3 – C

For best results use the scoring machine "JAMAS"

FIGURE 5.3 B

FIGURE 5.3 C

5.3.3 CERAMIC (Glued with Double Duty or Mud sets):

Before removing ceramic tile, tiles will have to be pre-broke with a mallet or large hammer. On small random block styles of tile, pre-breaking may not be necessary.

Open an area large enough for machine or blade to fit in, or start from a doorway.

Keep work area clean to keep good wheel contact with floor. Use slow speed and small blades.

Blades can be offset in cutting head for easier access to toe kicks or removal along the wall.

See figure 5.3 - D and 5.3 - E

FIGURE 5.3 D

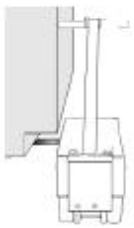


FIGURE 5.3 E

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5.4 Subfloor Surfaces

5.4.1 Wood and Wood like floors

Pound down or remove any nails or metal obstruction to avoid blade damage.

Glued hard wood flooring

A 25 cm blade is recommended for regular adhesive, a 15 cm blade for epoxy.

For proper removal of hardwood flooring (plank solid, plank laminated, parkay, parquetry laminated)flooring must be scored to blade width.

This is done by using a circular saw set at a depth of 99% of the thickness of the board, just missing the subfloor surface when on concrete

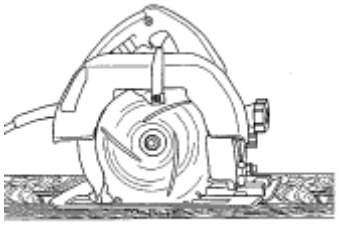

FIGURE 5.4 A

A chalk line for scoring lines can be used across the floor the width of the blade

See figure 5.4 - A and 5.4 - B

True parkay flooring scoring is not necessary.

It will come up in small pieces.

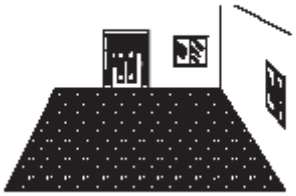

FIGURE 5.4 B

When working over plywood sub-flooring, try to run machine in the same direction as
the grain in the wood. Blade in most cases bevel down.

On solid wood floors like plank, run in the same direction as the plank, not cross grain or cross plank.

Removing the front counterweight will help on all soft surfaces.

5.4.2 Concrete

When working on concrete slab, normal blade position is bevel up for best performance, especially when cleaning adhesive. On occasion, bevel down gives better blade life.

5.4.3 Gibcrete and Soft Poured Flooring

Usually require blade level down to create a better wearing surface, although bevel up may work if front counterweight is removed.

Beware of expansion joints and floor mounted receptacles or other obstacles in the floor.

6 MAINTENANCE

6.1 Inspection Procedure Hydraulic

Always turn off and unplug electrical source before servicing.

Place equipment and components in a safe and neutral position.

6.2 Wheel Cleaner Adjustment

Keep wheels clean from dirt/debris.

Unplug machine.
Loosen wheel cleaner with the included accessory- wrench.

See figure 6.2 - A

Slide cleaner up to face wheel until it touches but does not dig into wheel surface.

Retighten firmly.

Over tightening wheel cleaner could cause damage to wheel.

FIGURE 6.2 A

6.3 Adding or Changing Hydraulic Fluid

Occasionally blow out the Filler Port Cap filter to remove debris.

Add fluid only when needed, see fluid level sight window.

See chapter 4.1.1 / 4.1.2 - page 9

Change fluid at least once a year.

See chapter 4.1.2 - page 9

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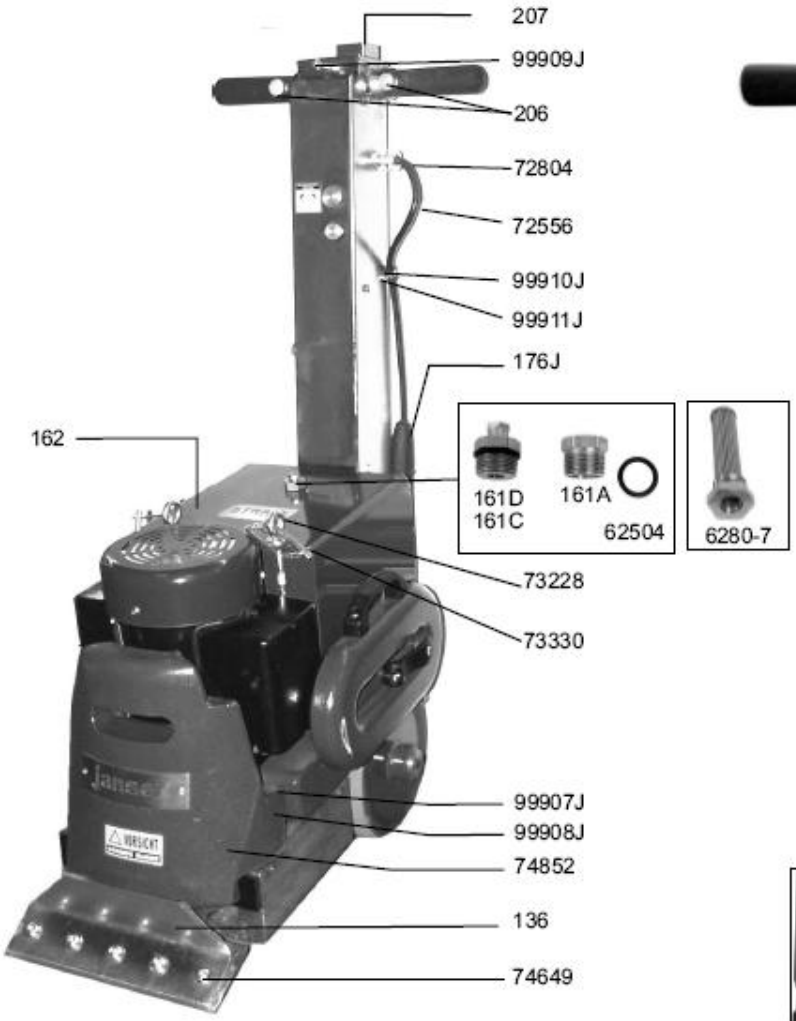
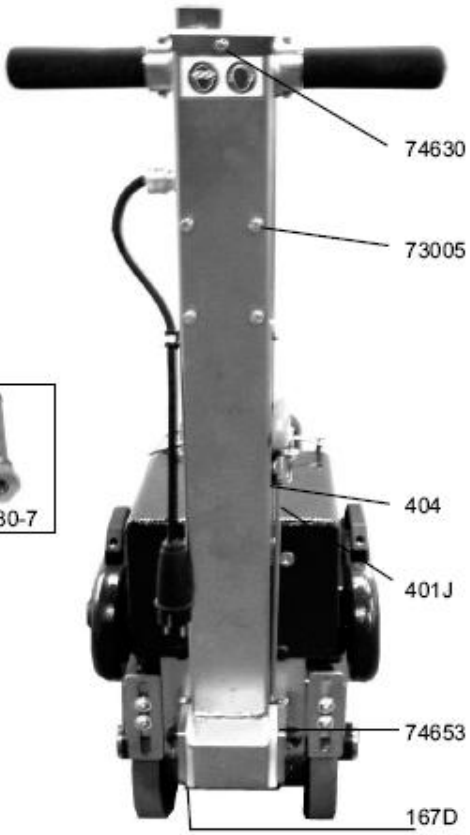
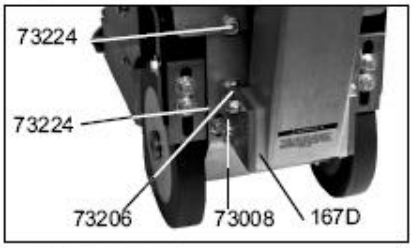
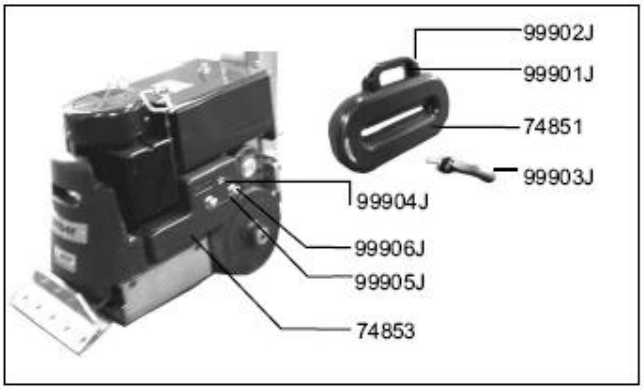
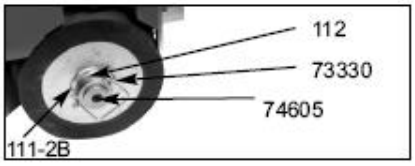
7 PARTS PARTS











EXTERNAL PARTS

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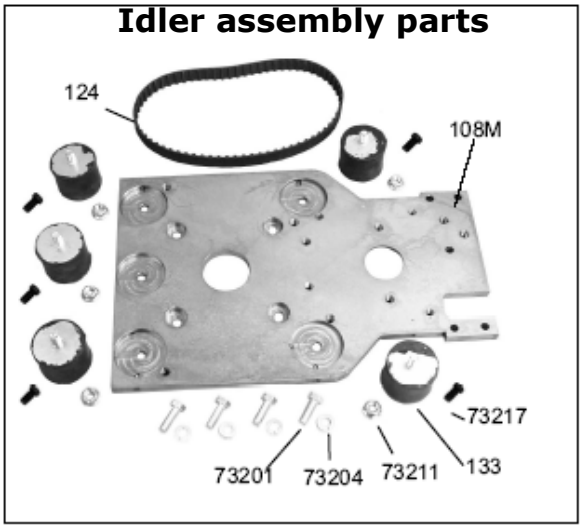
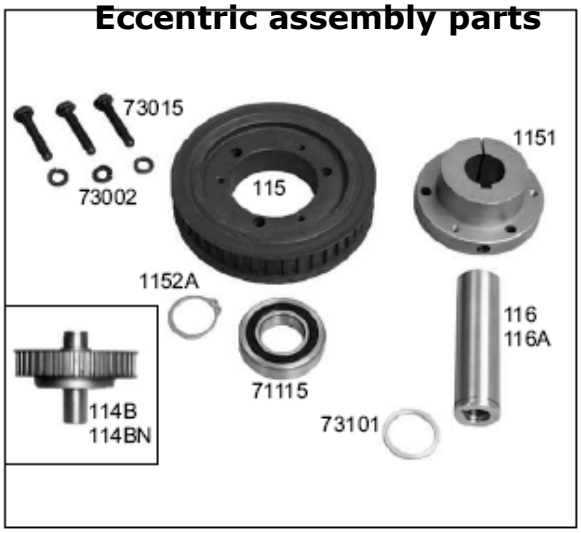
Ground plate



Pump drive assembly parts



Idler assembly parts

Eccentric assembly parts

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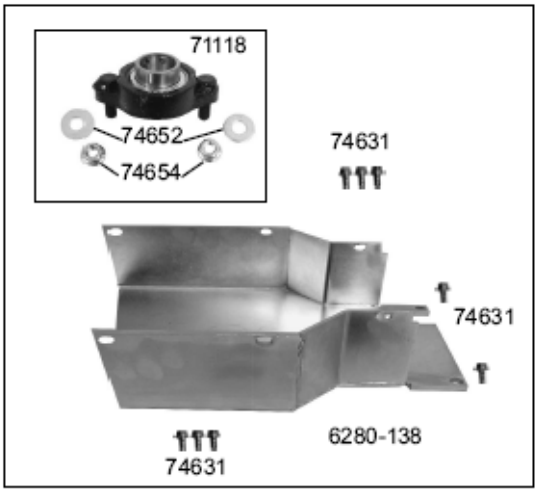
Axle assembly parts

Bearing & bottom cover parts



Cutting head parts

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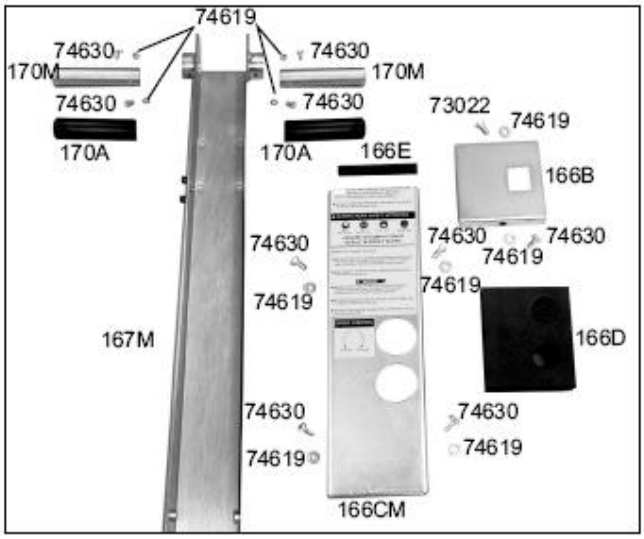
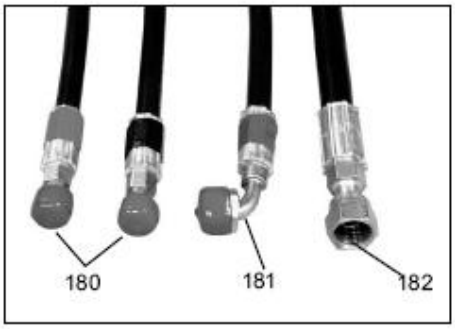
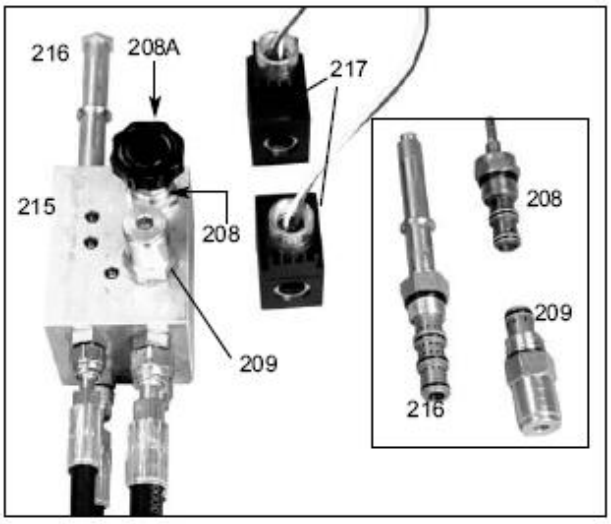
Handle parts



Hose parts



Internal handle parts



Switch parts

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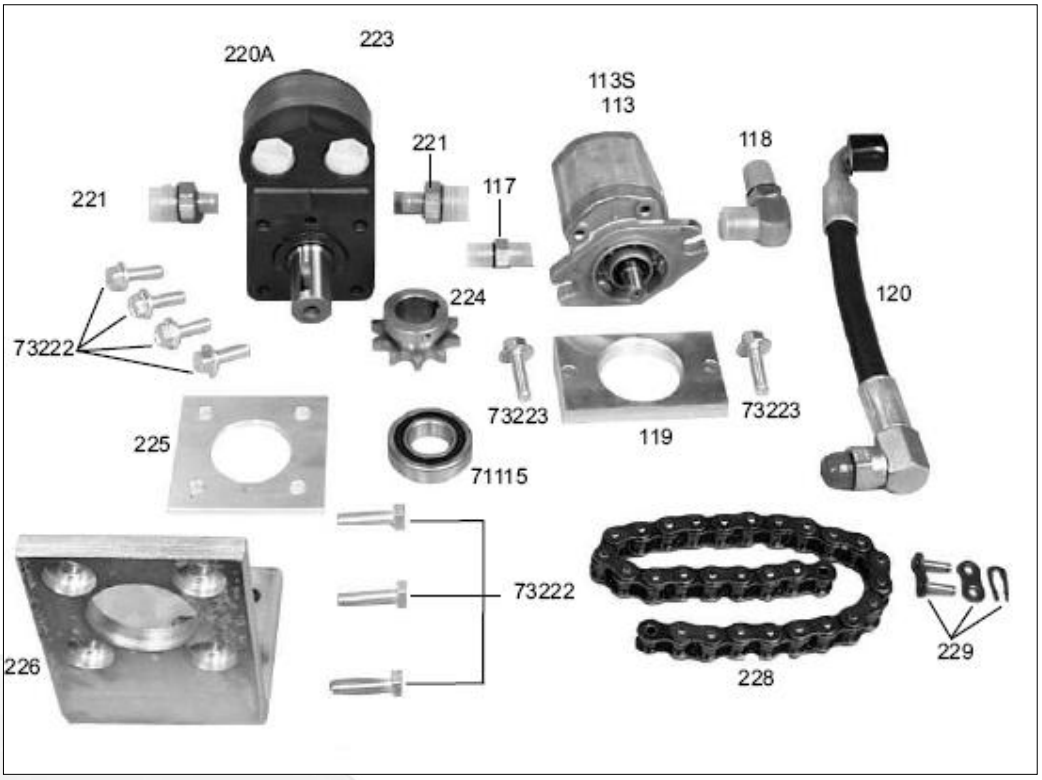
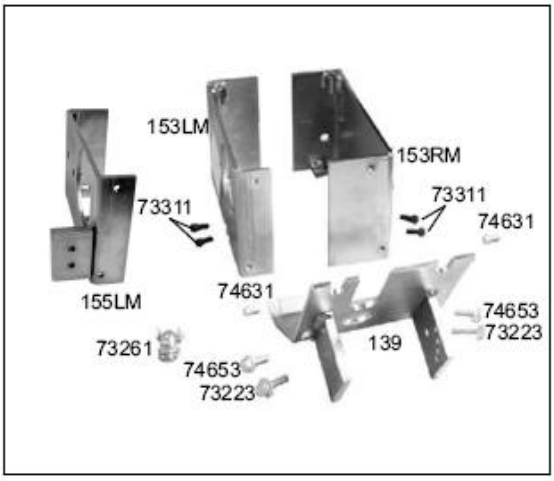
Internal parts



Motor parts

Body parts



Position	Description	Remark
6280-7	Internal tank mounted strainer	
6280-103-1M	Axle shaft (new style)	
6280-104	Axle Sprocket with key	
6280-105LM	Axle bearing support left	
6280-105RM	Axle bearing support right	
6280-108M	Base plate	
6280-110	Wheel spacer	-not shown-
6280-111-2B	Wheel with hub (new style)	
6280-111-2C	Wheel bearing (new style)	
6280-111A	Wheel key	-not shown-
6280-112	Wheel cap	
6280-113	Pump	
6280-113-1	Seal kit	
6280-113A	Hydraulic pump key	-not shown-
6280-115	Pump sheave only	
6280-1151	Pump sheave retainer only	
6280-1152A	Pump shaft snap ring	
6280-116	Pump shaft	
6280-116A	Pump shaft splined (new style)	
6280-117	Pressure hose to pump connector	
6280-118	Suction hose to pump connector	
6280-119	Pump spacer	
6280-120	Suction hose	
6280-124	Pump drive belt	
6280-125	Idler assembly	-not shown-
6280-125A	Idler mounting bracket & pin	
6280-126A	Idler bearing cap	
6280-129C	Eccentric key	
6280-133	Cutting head vibration isolator	
6280-134M	Cutting head	
6280-136	Blade cover	
6280-137	Raised-head screw 10.9 M10x2	
6280-138	Main bottom cover	
6280-139	Rear cover	
6280-143M	Cutting head, metric (new style)	
6280-145	Front cover	

Position	Description	Remark
6280-147-1	Stationary switch (inside motor)	
6280-148	Motor fan cover	
6280-148A	Fan cover screws (3)	
6280-149	Motor fan	-not shown-
6280-150	Capacitor cover	
6280-151A	Capacitor (run)	-not shown-
6280-151B	Capacitor (start)	
6280-152	Motor junction box complete	
6280-152-1	Motor junction box cover only	
6280-152-2	Motor junction box cover securing screw	-not shown-
6280-152-3	Cover gasket only	
6280-152-4	Junction box frame gasket only	
6280-153LM	Left upper main body	
6280-153RM	Right upper main body	
6280-155LM	Left upper main body (new style)	
6280-161A	Filler cap bushing only (old style)	
6280-161-C	Filler port plug assembly-tapered thread	
6280-161-D	Filler port plug assembly-straight	
6280-162	Hydraulic tank body	
6280-162E	Drain plug/oil level	
6280-162G	Tank magnet	-not shown-
6280-166B	Switch plate cap	
6280-166CM	Handle cover plate	

6280-166D	Rubber foam seal large	
6280-166E	Rubber foam seal small	
6280-167D	Handle vibration isolator	
6280-167M	Handle body	
6280-168B	Interference Filter 16A	
6280-170A	Handle bar grips	
6280-170M	Handle bar	
6280-175W	Hubbel twist lock female plug 220V	-not shown-
6280-176J	Plug male	
6280-180	Motor hose	
6280-181	Pressure hose	
6280-182	Return line hose	
6280-185	Button	

Position	Description	Remark
6280-206	Forward / reverse switch	
6280-207W	On / Off switch 220/110/100 Volt	
6280-208	Speed control valve	
6280-208A	Speed control knob only	
6280-209	Pressure cartridge valve	
6280-212	Return line	
6280-215	Valve block assembly	
6280-215A	Valve block assembly plug	-not shown-
6280-216	Solenoid valve cartridge	
6280-217W	Solenoid coils 230V	
6280-220A	Hydraulic motor	
6280-221	Hydraulic motor connector	
6280-223	Hydraulic motor shaft key	
6280-224	Hydraulic motor sprocket	
6280-225	Hydraulic motor spacer	
6280-226	Hydraulic motor mounting bracket	
6280-228	Drive chain	
6280-229	Drive chain master link assembly	
6280-304	Connecting hose	
6280-400	Motor shaft	
6280-400A	Eccentric assembly complete (old style)	
6280-401J	Screwdriver 6x300	
6280-404	Blade wrench holder	
6280-405	Motor shaft	
6280-405A	Eccentric assembly complete (new style)	
6280HD-131	Eccentric key (new style)	
62504	Filler port "O" ring	
71072	Idler bearing	
71115	Axle bearing	
71115	Pump drive bearing	
71115	Hydraulic motor bearing	
71118	Flange bearing sblf 205-16 1"ID	
71132	Eccentric bearing (new style)	
71133	Cutting head bearing assembly (old style)	
71141	Cutting head bearing 1-7/16	
72367W	Motor 220 Volt shaft:28,6x86 (new style)	-not shown-

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Position	Description	Remark
72368W	Motor 220 Volt shaft:22,5x50,5 (new type)	
72461	Motor protection switch	
72556	Power cord	
72804	Power cord strain relief	
72816	Return elbow 3/8" 90°	
73002	Pump sheave bolt ¼ split lock washer	
73002	Handle bar split lock washer ¼	
72003	Idler button head screw ¼	
73005	Handle hexhead bolt ¼ - 20 x ½	
73008	Locknut ¼"	
73010	Axle sprocket set screw ¼ - 20 x ¼	
73010	Eccentric set screw ¼ - 20 x ¼	
73012	Axle sprocket set screw ¼ - 20 x 3/8	
73012	Eccentric set screw ¼ - 20 x 3/8	
73015	Pump sheave bolt ¼ - 20 x 1 3/8	
73019	Handle bar hexhead ¼ - 20 x ¾	
73022	Hexagon head screw ¼ - 28 x ½	
73033	Axle sprocket key	
73039	Set screw	
73101	Pump sheave spacer only 1/8	
73201	Motor securing hexhead bolt	
73203	Base plate washer 3/8	-not shown-
73204	Motor securing hexhead bolt 3/8	
73206	Handle adjustment 3/8 – 16 x 1	
73210	Idler mounting bracket 3/8	
73211	Cutting head support nut 3/8 – 16	
73217	Bolt for isolator f. strato mobil	
73218	Idler mounting bracket bolt	
73222	Hydraulic motor screw 3/8 – 16 x ½	
73223	Rear cover top mounting 3/8 – 16 x 1 ¼	
73224	Rear tank mounting 3/8 – 16 x ½	
73226	Cutting head bearing 3/8 – 24 x 1	
73228	Lifting bail eyebolt 3/8 – 16 x 8	
73233	Pump spacer mounting bolt	
73235	Hexjambnut	
73261	90° cable connector 3/8	

Position	Description	Remark
73304	Forward / Reverse switch 5/16	
73310	Axle bearing support bolt right	
73311	Axle bearing support bolt left	
73311	Upper main body bolt 5/16 – 18 x 3/4	
73330	Axle pin 5/16	
73418	Hexhead bolt ½ - 20 x 1	-not shown-
73423	Internal / external lock washer	-not shown-
74101	Axle snap rings	
74402	Cup point set screw (speed control)	-not shown-
74508	Electric box cover screws	
74605	Allen head screw M5 – 8 x 16	
74619	Handle cover split cover washer ¼	
74630	Hexagon head screw M6x16	
74631	Hexagon head screw with flange M6x16	
74649	Button head cup screw with flange (5) M10x25	
74652	Hexagon flange bolt plain (4) M10x25	
74653	Rear cover middle mounting	
74654	Flange lock nut (2) M10	
74851	Side weight (pair) slide able	
74852	Front weight half round	
74853	Side weights (pair) Z-form	
99901J	Handle black	
99902J	Cylinder head screw M6x25	
99903J	Eccentric lever M10x25	
99904J	Threaded sleeve M12-M10 L85,5	
99905J	Threaded sleeve M12-M10 L64,5	
99906J	Guide bushing for side weights	
99907J	Raised head screw 10.9 M10x30	
99908J	Fixing bolt M10x40	
99909J	Carbine	
99910J	Fastening clamp M10	
99911J	Raised head screw 10.9 M5x10	
99912J	Carbine	
99913J	Velcro fastener 420x38	
99914J	Extension cord 10m	

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