TURBO® STRIPPER II
Operating Manual

Read before use and keep safe

Rev A Starting With Turbo II Ser# 193-07 06/21/07

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www.sineqco.com

Table of Contents

1.0 Technical data/technical description

Power supply	110-120V AC
Power consumption	2200W
Number of strokes	5000 strokes/min
Sound pressure level	92 dB(A)
Sound energy level	105 dB(A)
Hand/Arm-Vibration	10 m/s2
Weight	350 lbs
Comes with:	Turbo® Stripper, 2 rigid blades, safety goggles and tool kit.

2.0 Safety

The Sinclair Turbo® Stripper is state of the art designed and meets all standard safety requirements.

3.1 Safety Instructions

Disconnect the power supply before any maintenance is carried out.

Use only recommended blades and make sure the blade is sharp before starting.

Only qualified personnel should undertake maintenance. Use only genuine Sinclair spare parts.

CAUTION!!! <u>Always wear ear and eye protectors!</u> CAUTION!!!

Using this machine without ear and eye protectors may jeopardize or harm your health. It may harm especially your ears and increase the risk of an accident.

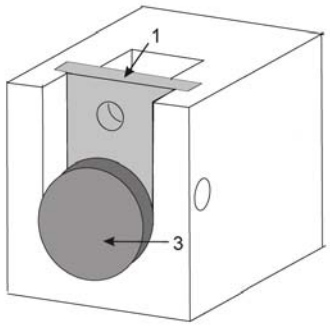
The user and any person within range should always use ear protectors!

PLEASE READ DETAILED SAFETY INSTRUCTIONS ON COLORED SHEET BEFORE USING MACHINE!

Transport

Always remove the blade before transporting the machine.

Disconnect the power supply and the plug of the clutch before removing the handle. Otherwise you might damage the hydraulics of the clutch.



Mount the steel plate (1) instead of the clutch.

Turn thumb screw (3) clockwise until the drive wheels are locked. This way the machine cannot move by itself.

Never transport the machine without the wheels blocked.

2.2 Introduction

This operating manual should be used to receive the maximum benefit from your Turbo® Stripper. Following these instructions will both extend the life of your machine and reduce repair costs.

Please make sure any user of the machine is familiar with these instructions before work begins.

2.3 Danger while working with the machine

The Turbo® Stripper is designed to the highest technical standards. Incorrect use can be dangerous!

Use this machine only:

- **As instructed in this operating manual.**
- **With the machine in perfect working order.**

Disturbances that could impair safety have to be eliminated at once.

2.4 Restriction of use

The Turbo® Stripper is exclusively for removing bonded floor covering in dry environments. It should not be used for any other purpose. Sinclair Equipment Company cannot be held responsible for any damage or loss caused by incorrect use.

2.5 Genuine Spare Parts

Spare parts and accessories are manufactured uniquely for the Turbo® Stripper. It must be emphasized that parts obtained from unauthorized sources must not be used.

Sinclair Equipment Company cannot be held responsible for the performance of or any damage arising from the use of machines in which genuine spare parts have not been used.

This is particularly important with replacement blades.

2.6 Low-voltage Protection

The Turbo Stripper is equipped with a low-voltage protection switch. The power supply breaks if current fluctuation or main power failures occur, thus preventing serious accidents.

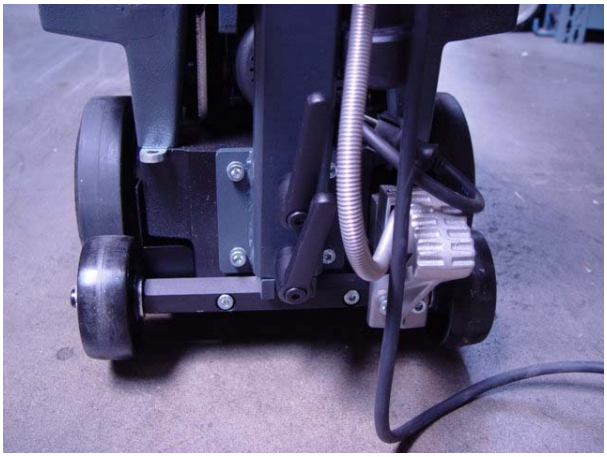
Due to the restart protection, the machine will not restart after a power failure, even if the operation switch has not been switched off.

For using the protective cut-out switch see item 5.0.

3.0 Assembly of Machine & Handle

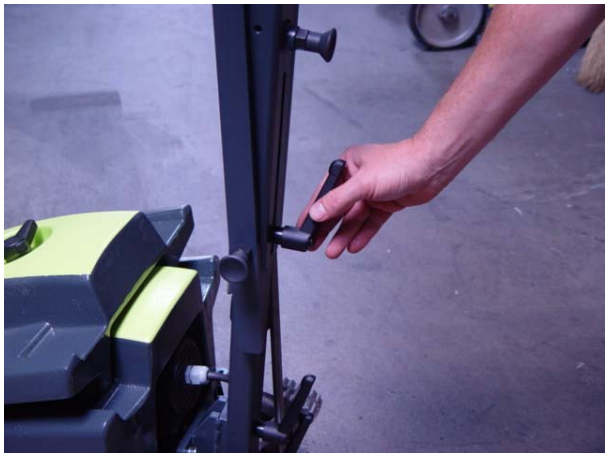
Insert handle into Turbo II base as shown in diagram.

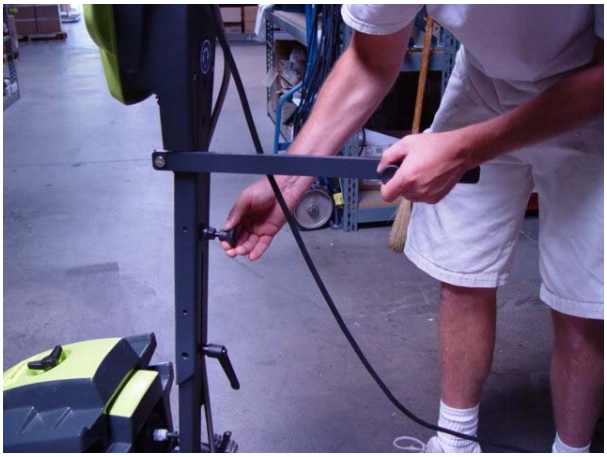
Tighten wing bolts in handle. Note that bolts are spring loaded to get past foot pad. Position both bolts facing up as shown in diagram.



3.1 Adjustement Of Handle

To adjust handle, loosen wing bolt on back of handle. Pull knob on side lever and lift torwards you. Pull locking knob out from back of handle and slide handle up or down. Release spring loaded knob where needed & tighten wing bolt. (See figures)





4.0 Maintenance

The Turbo® Stripper is virtually maintenance free. The guide shaft castings require lubrication from time to time. (after approx. 1650 sq. feet). Initially the machine is fully lubricated and should not require any additional lubrication for the first 5000 square feet. The grease fittings are located on each side. (See Diagram 1) To Grease the gearbox on it's right side, remove left wheel and bottom cover. Spin axel/gearbox to expose grease fitting. (See Diagram 2) Put 2 to 3 pumps to gearbox every 50 to 75 hours. The used grease will flush dirt out of the machine. Replacement lubrication should be a Lithium based chassis type lube (i.e. auto grease gun pack).

CAUTION!! Press maximum of 3 times with the grease gun. Never press too much grease into the machine. Otherwise the mechanism will be blocked.

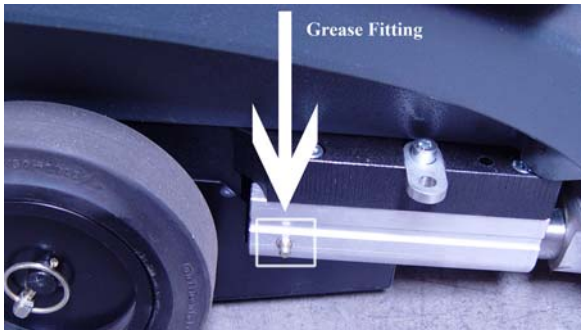


Diagram 1

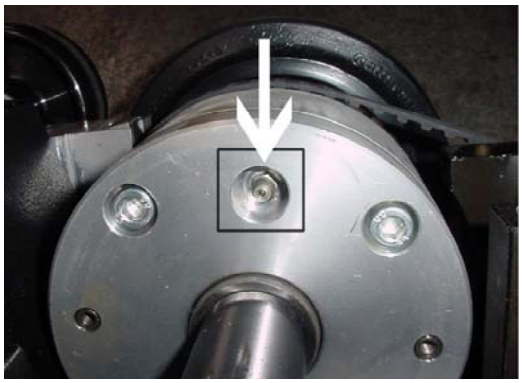


Diagram 2

Changing the blade

Disconnect the power supply and put on the blade protection before changing the blade. Use work gloves for your own safety.

- release bar on side of handle & tip the machine as shown
- put on the blade protection
- (enclosed in the tool set)

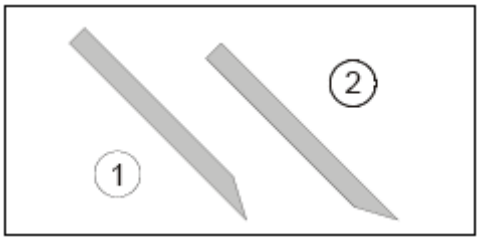
Warning! Very sharp blade!

You may cause injury without using the blade protection!

- clean and loosen screws of the blade mounting

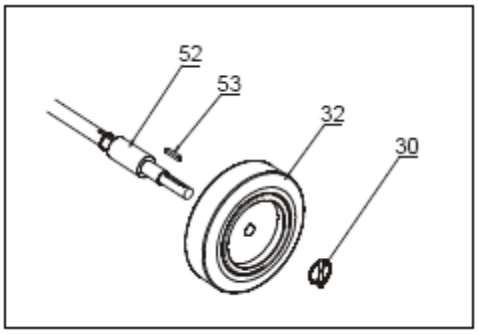
Attention! Set the wrench at a position opposite to the blade to avoid injury.

- replace the blade



Make sure that the blade fits in exactly into the support. On normal and hard sub floors the bevel of the blade should show upwards (1), on soft sub floors the bevel should show downwards (2).

Changing the driving wheels



Remove the lynch-pins and pull the wheels from the axle. Do not loose the wheel key under any circumstances!

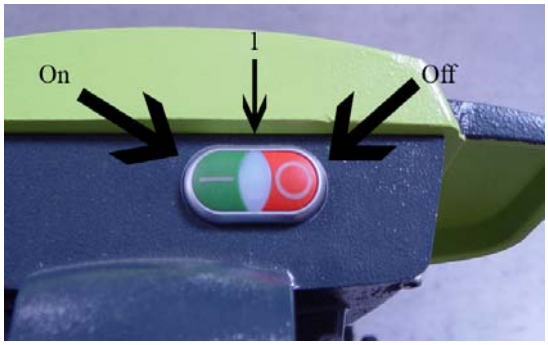
5.0 Use

The Turbo® Stripper removes any bonded floor coverings in strips. This procedure corresponds with the customary method of using a hand floor scraper. The stripper works with a steel blade at very high frequency, minimizing vibration and noise.

The Turbo® Stripper is self-propelled. The motor actuates both the blade and the machine movement. The blade drive starts as soon as the machine is switched on The hand clutch will engage the drive.

Starting

The Turbo® Stripper is equipped with a Power -on indicator lamp (1) and an operating Switch located at the top of the handle. The switch has a restart protection for low-voltage failures.



If the lamp does not indicate power-on, use another power socket or check power supply.

Before starting work, cut the floor covering into strips of about 12 “. You cannot work faster if you cut wider strips.

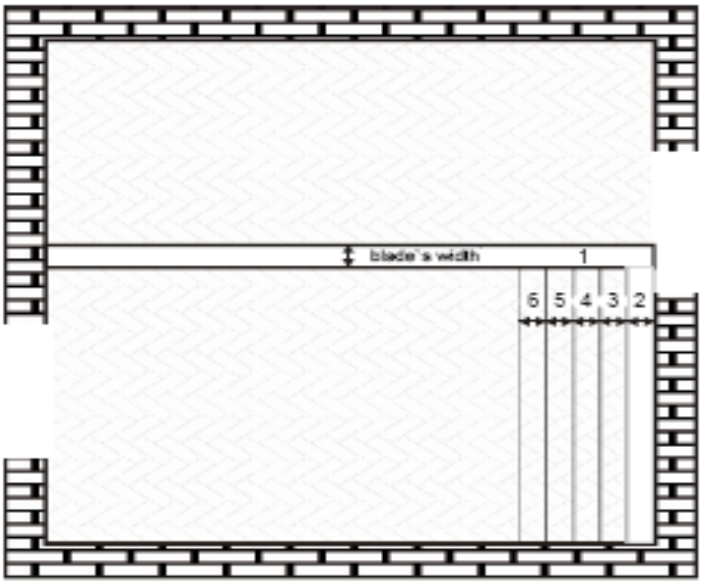
To begin, cut one strip crosswise. Then lift the flooring slightly in order to get the blade underneath it.

We recommend to cut the first strip at right angles to the main working direction. By so doing access to the adjacent strips is made easier.

Cut the strips smaller if the floor covering is bonded very securely, e.g. with an epoxy adhesive.

The blades are sharpened by the floor pavement. Therefore the blade has to be changed only if it is twisted or becomes worn.

The driving wheels are subject to wear. They have to be changed after approximately 16mm (0.6 inch) of the surface has been worn away. Otherwise the working angle of the striking apparatus will not be correct especially critical with cork or foam backed carpets.



Assembly of support for additional weight (accessory)

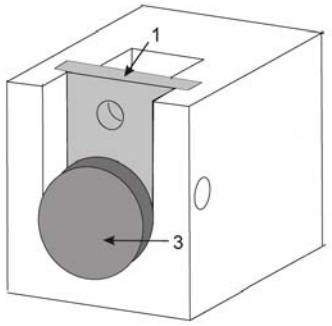
The weight of the Turbo Stripper is expandable by 1 up to 3 additional weights (each weight is 66 lbs) Sinclair part# T38535

Individual weight shifting is possible at 3 positions (see picture).

Emergency running

The Turbo Stripper can be operated also with broken or damaged hand clutch as follows:

- Disconnect power supply
- Insert emergency-run-unit in place of clutch.
- Screw-in thumb-screw (3) until the driving wheels are blocked
- If the emergency-run-plate is mounted, the motor drive is always switched on. The machine starts running immediately after switching on.



6.0 Information about various floorings

<u>Carpets with foam backing</u>
A sharp blade is essential in order to ensure the floor covering is removed together with the foam backing. Remove floorings across the width, particularly if you have any uneven sub-floor.

<u>Tiles</u>
Use blade of the same width as the tiles and use a new blade. Tiles above size 30 x 30 cm (12 x 12 inch) has to be cut into half. If the sub-floor is uneven, use smaller blades.

In all cases, check from time to time to ensure the blade is still sharp. If it is not or any distortion has occurred, replace it immediately.

7.0 Trouble shooting

1. Make sure the machine is connected to a known 120V, 20-amp circuit breaker.

2. All plugs should be firmly connected. Check for any splits or damage to power cord.

3. Failure in Hydraulic Clutch System. (see 7.1)

Note: In the event of Hydraulic Clutch failure, the Emergency Run Unit can be inserted in place of the hydraulic cylinder. This will allow continued use of the machine without clutch availability. The machine will need to be turned off to move into a new position.

7.1 Repairing the Hydraulic System

To repair the hydraulic system, use the **Sinclair Hydraulic Clutch Repair Kit**, which can be ordered through your local distributor.

Hydraulic Clutch Repair Kit

This kit contains all hydraulic fittings, compression washers, tubing, fluid, and specific tools necessary to completely rebuild the Turbo® Stripper's hydraulic clutch assembly. Not included in the kit is a master cylinder and slave cylinder. If either of these components are damaged and required replacement, you can purchase a complete hydraulic assembly from Sinclair Equipment Company.

The hydraulic fluid provided with the kit is a non-toxic, biodegradable, mineral oil based product, and no special handling or disposal requirements are necessary. You should not, however, accept any substitutes. Automotive brake fluid and other petro-chemical or glycol based hydraulic products are caustic, will deteriorate the tubing and internal working parts of this system, and should not be used.

Repairing the Hydraulic System

The kit includes two nylon blocks with grooves cut in them to assist in installing the barbed fittings on the tubing ends.

Using a sharp knife cut the end of the tubing to be installed as clean and square as possible.

In a vise, clamp the end of the tube in the nylon blocks, allowing about 1/2 inch of tubing to stick out past the end of the blocks. Using a plastic mallet or similar lightweight hammer, tap the barbed, 90 degree (banjo shaped) fitting into the end of the tubing as far as it will go.

Before installing a fitting on both ends of the tubing, make sure that the spring-like cable sheath #1 for both ends are in place on the tubing.

For a more reliable repair, you should always replace all fittings and compression washers with each new assembly. Each 90-degree connection requires two washers and the slave cylinder bleeder screw needs one.

Measuring the tubing length and installing the tube is best done with the master and slave cylinders installed on the machine. The idea is to mount the 90-degree connectors in the proper direction and with enough tubing to avoid stressing the barbed fitting/tubing connection during normal use.

Filling and Bleeding The System

Turn the clutch adjustment screw #2 (2mm Allen screw, located in the handle behind the lever of the master cylinder #7) counterclockwise as far as it will go.

Insert the straight barbed adapter into the top end of the clear tubing and insert the tip of the syringe into the bottom end of the tube.

Fully depress the syringe's plunger to expel all air, dip it in the fluid and draw the plunger back slowly to fill the syringe at least half way.

Remove the bleeder screw #3 from the slave cylinder #8 at the rear of the machine and attach the syringe assembly in its place.

Remove the bleed screw #4 (plug) from the master cylinder and depress the syringe's plunger to force fluid through the system. Allow enough fluid to flow from the master cylinder, to ensure that no air remains in the system. If desired, the master cylinder can be removed from the machine's handle and placed in a rag. Care must be taken, however, to maintain adequate altitude between the cylinders, to ensure the absence of air. Always fill from bottom to top.

In the following order:

1. Replace and tighten the plug in the master cylinder #4;
2. Remove the syringe assembly from the slave cylinder; and
3. Reinstall the bleeder screw #3, using a fresh compression washer.

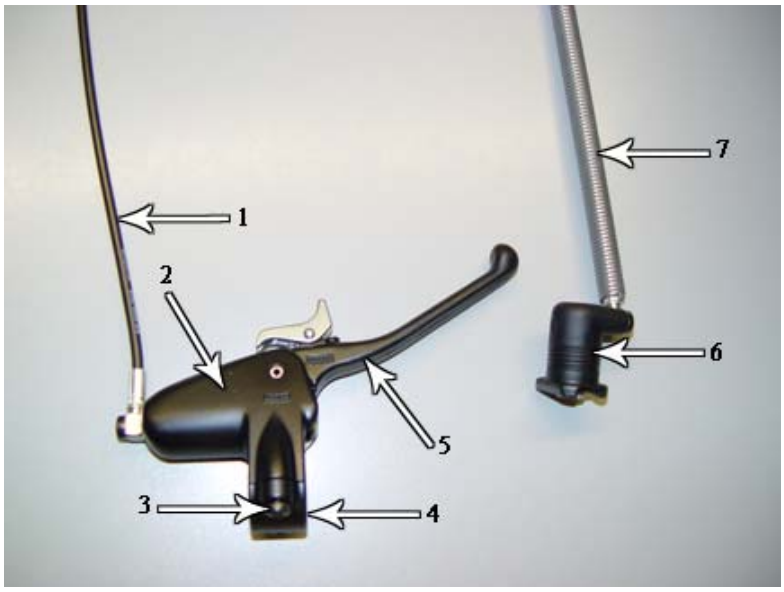
Wipe clean any excess fluid. Mount the master cylinder on the handle, if necessary, and test the function of the hydraulics.

Adjustments can then be made by tightening the adjustment screw on the master cylinder #2. If the master cylinder is too tight, you can allow some fluid to escape by loosening the master cylinder bleeder plug #4, and gently squeezing the lever very slightly to allow a few drops of fluid out. To avoid allowing the cylinder to suck in air, be sure to tighten the bleeder plug securely before releasing any pressure applied to the lever #5. The adjustment can then be made using the adjustment screw #2. The clutch must engage fully and remain engaged when you set the lever lock #6.

Turbo Hydraulic Clutch Parts

1. Hydraulic Tubing – T099998T (Order qty 42)
2. Master Cylinder with Lever. (#2&#5)- T0730236
3. Screw for Clamp – T0999996
4. Clamp – T0999995
5. Lever Blade W Plunger & Lock – T0999994
6. Slave Cylinder – T0321830
7. Protective Spring – T0999992

Complete Hydraulic Clutch Assembly – T015032



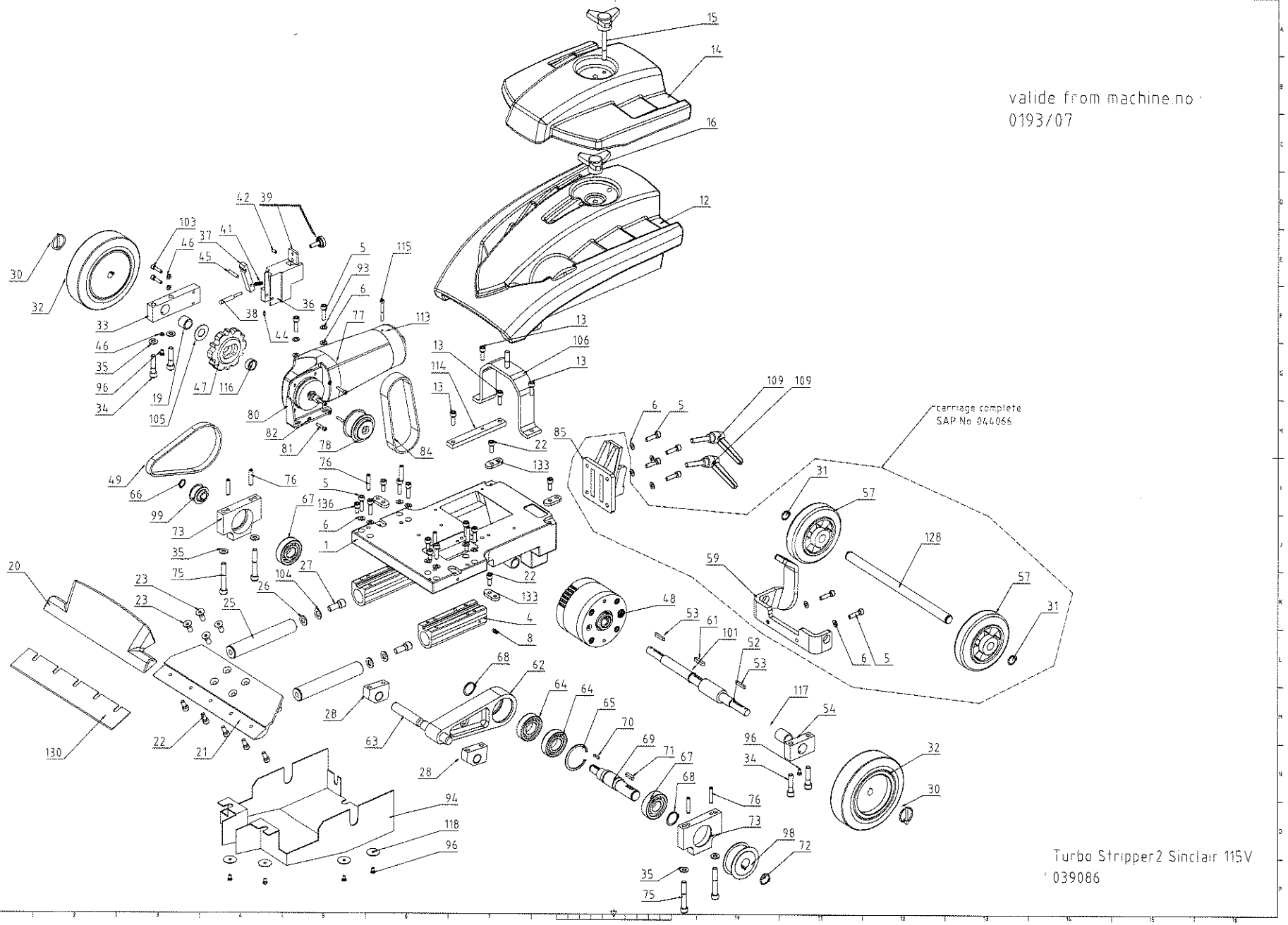
Clutch Rebuild Kit – T0999998

Spare Parts/Schematics

Schematic #	Description	Part#
1	Chassis	T015106
4	Piston block	T015054
5	Screw M 8x30	T014736
6	Washer, M8	D014860
8	Lubricating nipple	T014914
12	Cover	T038534
13	Screw M 8x25	T014735
14	Additional Weight	T038535
15	Screw M10x80	T039234
16	Screw Nut	T039189
19	Bushing 20x26x20	T014909
20	Blade holder Turbo / Jaw	T038536
21	Striking foot Turbo	T015127
22	Cyl. screw M8x20 - 6mm	T014734
23	Screw M10x25	T014763
24	Tension pin 10x20	T014890
25	Piston rods	T015132
26	Washer, M13	T014833
27	Screw M 12x30	T014744
28	Connecting block (Left or Right)	T015417
29	Washer 18mm	T014832
30	Wheel pin	T014888
31	Washer, 16 mm	T014851
32	Drive wheel B16	T015135
33	Gear mounting block right	T015033
34	Screw M 10x45	T014741
35	Safety washer, 10 mm	T014861
36	Clutch holder	T040003
37	Clutch stop device	T040006
38	Pressure bolt	T015120
39	Emergency run unit	T016232
41	Pressure spring D 206	T040002
42	Pressure spacer	T042681
44	Thread pin M5x10	T014791
45	Cyl. pin 6x32	T014874
46	Washer M6	D014859
47	Clutch disc	T015119
48	Gear block	T015140
49	Drive belt small	T014938
52	Drive shaft axle	T015142
53	Key 5x5x32	T014902
54	Gear mounting block left	T015036
57	Nylon Transport Wheel	T041888
58	Split-pin 3, 2 x 32	T014886
59	Carriage Bracket	T042612
61	Nut key 6x6x32	T014904
62	Connecting rod W/ PIN	T015144
63	Connecting rod pin	T014875
64	Ball bearing 6206	T014710

65	Circlip I 62	T014856
66	Circlip A 17	T014850
67	Ball bearing 6305	T014712
68	Circlip A 30	T014853
69	Excenter shaft Turbo	T015145
70	Nut key 4x4x20	T014901
71	Key 6x6x25	T014903
72	Circlip A 25	T014852
73	Bearing block right or left	T017079
75	Screw M 10x70	T014742
76	Cyl. pin 8x40	T014876
77	Motor 2400 Watt - 110 Volt	T015056
78	Belt Pulley Z20	T015129
79	Electrical cord with plug	T014973
80	Motor Plate, new	T016860
81	Screw M 5x25	T014721
82	Washer, 5 mm	T014858
83	Spacer	T015150
84	Drive belt large	T014937
85	Handle Bracket	T038531
86	Outer tube	T038508
87	Inner tube	T038509
88	Electrical cord short	T014974
89	Clamping lever	T038567
90	Arresting bolt	T037953
91	Stopper	T018800
92	Cyl. Screw	T014734
94	Cover	T015154
95	Grip	T039233
96	Screw M6x12	T014799
97	Electrical cord long	T014970
98	Belt pulley Z 24 - Large	T015155
99	Belt pulley Z 12 - Small	T015156
100	Washer	T014828
101	Groove ring	T014845
102	Hexagon bolt	T018135
103	Cyl. screw M 6x25	T014731
104	Washer, M12	T014862
105	Starter disc / PVC Washer	T015164
106	Weight Bracket	T042741
107	Switch housing	T038507
108	Switch housing cover	T038505
109	Clamping Lever M10x50	T038566
110	Oval Head Screw M16 x 16	T017621
113	Motor cover (neu)	T015130
114	Bracket	T038606
115	Screw M 5x90 Neu	T014724
116	Bushing 20x26x11	T015141
117	Bushing 20x26x30	T014910
118	Washer M6	T014835
122	Cyl. screw M8 X 35	T014737
123	Cable pit	T039188
125	Cyl. Screw M4 x 12	T018284

126	Hydraulic-clutch assy	T038837
128	Transport Axle	T042739
129	Strain relief	T017559
131	Handle	T014917
132	Cyl. Screw, micro M6 x 20	D014752
133	Bracket for Lifting Strap	T015107
136	Cyl. Screw, M8 x 16	T017651
137	Washer	T017452
138	Indicator	T038638
139	Cyl. Screw, M6 x 60	T018259
140	Fitting	T038585
141	Elastic Stop Nut M8	T014816
142	Belt pulley	T014848
146	Switch	T017439
147	Top Hat Rail	T020969
148	Cyl. Screw M6 x 105	T039284
149	Grip covering	T038568
150	Screw M 4 x 8	T017473
151	Push button	T021233
176/177	Twist lock assy	T015046
178	Countersunk head screw	T017701
179	Tilt Support	T039636
180	Split Washer	T014844
181	Shoulder Bolt	T021232
	***Without Drawing*:**	
	Tool Kit	T015162
	Motor Brush Set	T025768500
	Transport Wheel Ass'y-Complete	T044066
	Hydraulic Clutch Repair Kit	T0999998
	2016 Bushing (for T28/T29)	T014913
	Hydraulic Mineral Oil 2oz	T0999999
	Lifting Straps	T040603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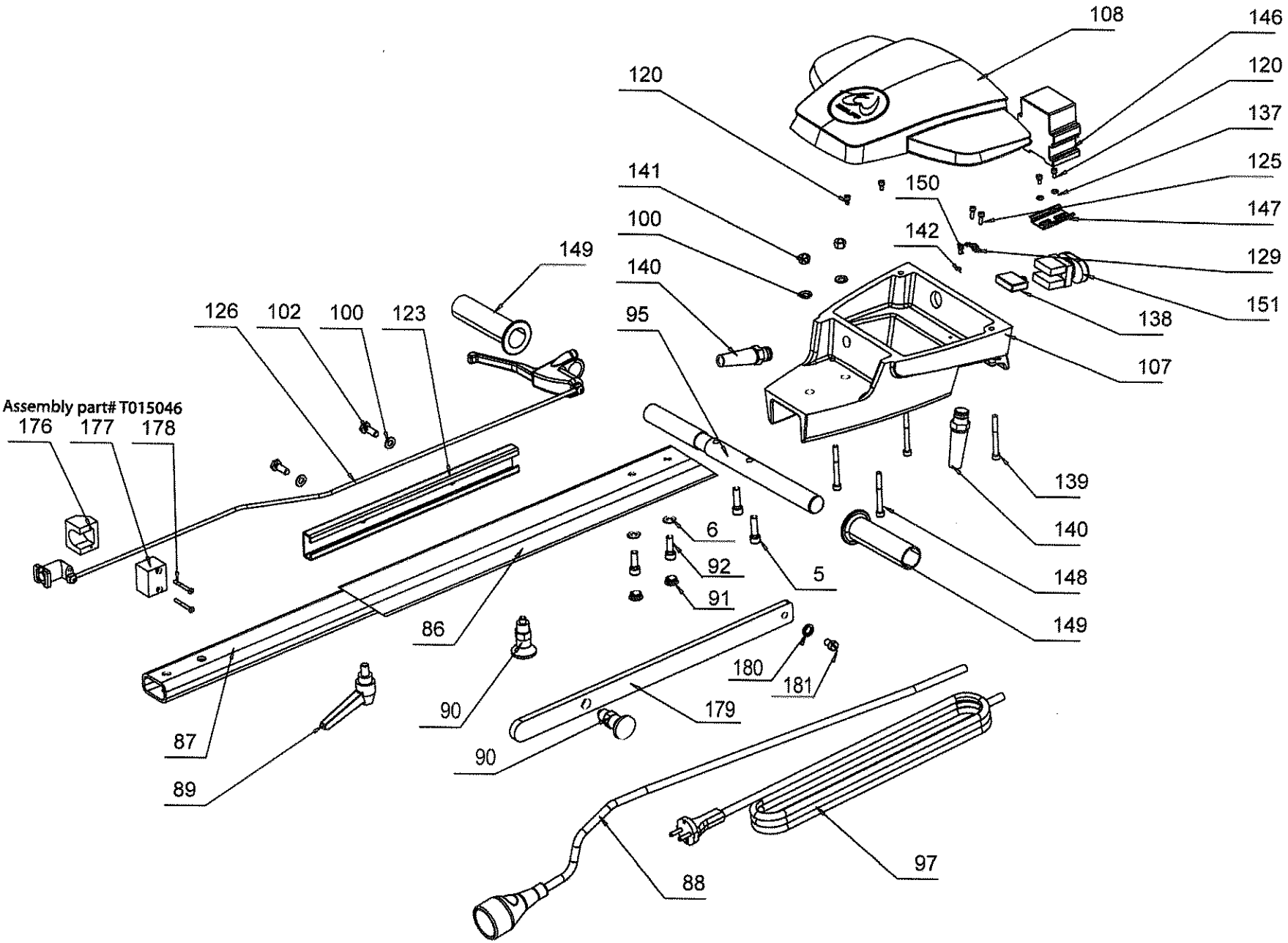
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TURBO, EXTRO, SUPER, BRAVO, DURO & ECO STRIPPER SUGGESTED BLADE SELECTION

BRAVO/DURO/ECO STRIPPER

#10-4906 8"Rigid. Our standard blade for removal of vinyl, carpet, adhesive, etc. Bevel edge of blade should be up for concrete and down for wood sub-surfaces. Precutting of carpet and vinyl needed.

#10-4904 8"Flexible. Same as above, yet for uneven concrete surfaces and some soft foam back carpet.

#10-4907T 8"Tile Blade. For use on VAT and VCT tile. Prevents tile from jamming in between blade and blade holder. A must for tile removal to protect blade holder.

#10-4909 8"Razor Blade Attachment. An adapter to secure razor blades for removal of adhesives, paints and thin films. Inexpensive and an excellent choice for complete clean up after floor covering removal.

#10-4903 8"X 5"Rigid. Ideal for hard to reach areas such as toe kicks, under radiators, etc. Also used for clean up of small areas of parquet, ceramic, etc.

#10-4906D 8"X 2.5"Rigid Self Dicing. For use on carpet, rubber or vinyl. A real time saver, on pre-cutting necessary since blade will cut strips with knife edged sides.

TURBO/EXTRO/SUPER STRIPPER

***Super Stripper uses 12" Blades Only**

#10-4801D 14"Self-Dicing Blade. For use on carpet, rubber or vinyl. A real time saver, on pre-cutting necessary since blade will cut strips with knife edged sides.

#10-4651T 12"Tile Blade. For use on VAT and VCT tile. Prevents tile from jamming in between blade and blade holder. A must for tile removal to protect blade holder.

#10-4807 14"X 5"Ceramic/Parquet Blade. Ideal for removal for ceramic tile, marble, parquet, and other wood floors. Precutting needed for plank floors.

#10-4809 Special Ceramic/Parquet Blade. This ¼" thick heavy duty blade is designed especially for the ceramic tile and hardwood/parquet removal applications. The 14" wide blade extends out nearly 4" and is designed at a specific angle to work more efficiently in cutting and lifting of thick materials. Best suited for the long run, constant use in tile/wood applications for extended life and performance.

#10-4802 14"Rigid, #10-4652 12"Rigid. The standard blade for carpet, vinyl or adhesive removal, pre-cutting of the floor is needed.

#10-4804 6"Rigid, #10-4803 8"Rigid. Use these blades for difficult removal like, epoxy, rubber floors, sport surfaces, etc. Always position these blades to far left hand side of machine.

NOTE: All jobs can vary in difficulty of removal. Whatever blade you are using it may be necessary to take a smaller bite in removal so it is less stressful on the operator as well as the machine. If you have any questions on blade selection or choice of machine, please do not hesitate to call Sinclair Equipment Company or your nearest distributor.

STANDARD WARRANTY

SINCLAIR EQUIPMENT COMPANY'S tools are warranted to be free of defects in workmanship and materials for a period of one year from the date of original purchase. Should any trouble develop during this one year period, return the complete tool, freight prepaid, to SINCLAIR'S authorized Service Center. If inspection shows the trouble is caused by defective workmanship or materials, SINCLAIR EQUIPMENT COMPANY will repair, or, at its option, replace without charge.

- This warranty does not apply to malfunctions caused by damage, unreasonable use, faulty repairs made by others, or failure to provide recommended maintenance.

- The warranty is void if the product is altered by the original consumer purchaser, or if it is used in a manner not recommended by the manufacturer.

- The warranties do not cover consequential damages or transportation charges incurred with the replacement or repair of SINCLAIR EQUIPMENT COMPANY products.

- Not responsible for lost job or down time.

In no event shall SINCLAIR be liable for any indirect, incidental, or consequential damages from the sale or use of the product. This disclaimer applies both during and after the term of this warranty.

SINCLAIR EQUIPMENT COMPANY disclaims liability for any implied warranties, including implied warranties of "merchantability" and "fitness for a specific purpose", after the one year term of this warranty.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Should you have any questions, contact SINCLAIR EQUIPMENT COMPANY at (530) 626-9386.

To obtain warranty service, deliver or send the complete tool, prepaid, to SINCLAIR EQUIPMENT COMPANY. Be sure to include the following information:

- Nature of failure;
- Name and address of distributor where tool was purchased;
- Application of tool when rendered defective; and
- Proof of purchase.

To obtain individual repair parts, contact SINCLAIR EQUIPMENT COMPANY with the following information:

- Tool model number;
- Item part number; and
- Description of part.

Notes