

INSTRUCTIONS MANUAL
THE REPEX « MAJOR » Sander
Reference 11000000



REPEX FLOOR SAS
2, Avenue de Roses
PA des Petits Carreaux
94380 - BONNEUIL-SUR-MARNE

Tel : +33(0)1 46 80 03 92
Fax : +33(0)1 46 80 12 09
info@repex.fr
www.repex.fr

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INSTRUCTION MANUAL

DANGER :	means	Serious injury or death to the operator or others can happen if DANGER notices on this machine or in this manual are ignored or not observed. Read and follow all DANGER notices.
WARNING :	means	Injuries may strike the operator or others if the WARNING notices on this machine or in this manual are ignored or not observed. Read and obey all WARNING notices.
CAUTION :	means	Damage to the operator or others if CAUTION notices on this machine or in this manual are ignored or not observed. Read and follow all CAUTIONS notices.

1. GENERAL

INFORMATIONS ABOUT THE INSTRUCTIONS

The instruction manual serves as an important source of information and a reference for staff when installing and using the machine. It must allow a safe work and consistent with the capabilities of the machine.

The precondition for this is the knowledge of the safety aspects to be observed when installing, using and maintaining the machine. Therefore, the user manual must be read in the "Safety" chapter. The other main points for informing staff are the following chapters.

To avoid handling errors, these operating instructions must be accessible to personnel all times. Accident prevention instructions and general safety instructions must be observed when using the machine.

NOTE: The schematic representations of this manual may be slightly different from the model in your possession.

MANUFACTURER

Adresse :
REPEX FLOOR
2, Avenue de Roses
PA des Petits Carreaux
94380 BONNEUIL-SUR-MARNE

Contact :
Tél : +33 (0)1 46 80 03 92
Fax : +33 (0)1 46 80 12 09
e-mail : info@repex.fr
Internet : www.repex.fr

RESPONSIBILITY AND GUARANTEE

Any claim must include details on the use of the item, the date of purchase. For machines, the guarantee means parts and labour after return to the factory REPEX Floor SAS

Liability is limited only to goods supplied by REPEX Floor SAS and does not apply to damage, injury or loss of income from a defective component.

The use of the goods supplied by REPEX Floor SAS must respect the technical recommendations of the manufacturer. All our products have a traceability of the source of supply. It is the customer's responsibility to ensure that this condition is sufficient to meet the requirements of the final destination of the goods purchased.

The goods sold are guaranteed against any malfunction resulting from a defect in material, workmanship or design, for a period of one year from the date of invoice, subject to consistent use of the product by the customer.

Products returned under warranty are subject of quality control before making any decision.

This manual must be read carefully before use!

The transfer of this manual to third parties is prohibited. In case of non-compliance with this clause, compensation may be requested.

THE PICTOGRAMS PRESENT ON THE MACHINE



READ THE INSTRUCTIONS CONTAINED IN THE USE AND MAINTENANCE MANUAL BEFORE USING THE MACHINE



IT IS ADVISABLE TO PROTECT YOUR EARS DURING THE USE OF THE MACHINE



IT IS ADVISABLE TO PROTECT YOUR RESPIRATORY TRACT DURING THE USE OF THE MACHINE



DANGER ELECTRIC POWER



DANGER ORGANES ON MOUVEMENT

2. THE REPEX "MAJOR" SANDER

The floor sander model "MAJOR" is a real floor planer with three wheels (two fixed and one rotatable) for professional use. The machine can be used at a high frequency.

The suction chain system allows a lower dust emission than current machines coupled with an industrial vacuum cleaner: 0.79mg/m³ (certified).

This machine sands with a removable drum, positioned at the front of the machine, driven by a single-phase motor. The sanding drum and the suction are both driven by a belt.

3. RECEPTION OF THE MACHINE

First check the contents of the package. Contact your local supplier if any parts are missing.

The parts supplied are as follows:

- 1 instruction manual,
- 1 disposable bag for fine dust,
- 1 over-pocket filter to hold the pocket
- 1 chassis,
- 1 single-phase motor 3kW or 2.2kW,
- 1 endless belt drum,
- 1 sanding belt,
- 1 key of 13,
- 1 key of 19,
- 1 set of keys for housing,

4. STOCKAGE

It is advisable to store the machine without removing it from its original packaging.

If the machine removed from its original packaging remains stationary for a long time, ensure that at least the wheels and the deck do not remain in contact with the ground.

Store the machine in a dry building without risk of damaging it.

Storage temperature: -5 ° C to 45 ° C.

5. TRANSPORT

WARNING : The machine is heavy, separate the engine and frame from the machine before transporting it. Get help to transport the engine and frame.

For ease of transport, the machine can be disassembled into three parts:

Drum

Chassis

Engine



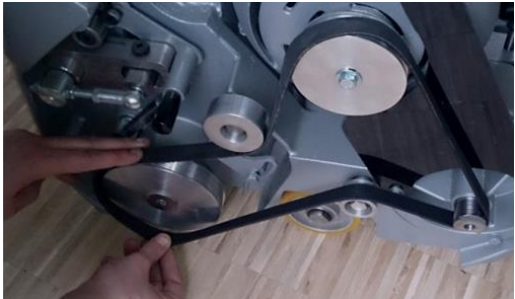

By following the steps below:

1. Make sure that the supply cable is disconnected from the power line and from the machine.
2. Disconnect the motor plug from the electrical box.
3. Open the belt guard with the wrench after having unscrewed completely by hand the knob handle that tightens the drive belt.
4. Remove the belt from the pulleys, taking care not to damage it.
5. Unscrew the jaw handle that holds the motor on the chassis.
6. Remove the motor from the chassis.

6. INITIAL OPERATION

INSTRUCTIONS FOR ASSEMBLY AFTER TRANSPORT

To reassemble the machine after transport, proceed as follows:

1	Open the belt cover using the key.	
2	Place the motor in both lugs and tighten the clamping handle to lock it in place.	
3	Place the belt, taking care not to clamp it.	
4	Tighten the motor knurled screw to tighten the belt. The belt is correctly tensioned when the belt has a 8mm deflection.	
5	Connect the electrical cable to the motor.	

DANGER : Risk of injury to persons and damage to property when the machine is not completely assembled.
Do not operate the machine if it is not completely assembled. Ensure that all clamping elements are correctly tightened. Ensure that the machine is set up according to the specifications.

7. INITIAL OPERATION

INSTRUCTIONS FOR THE ELECTRICAL CONNECTION

CAUTION : This machine operates only at the voltage and frequency indicated on the label present on the machine. Before connecting the cable to the supplying network, make sure that the voltage and frequency available are correct.

DANGER : Do not expose the machine to water or rain ! : Danger of death by electrocution. Use and store the machine in a dry building.

- DANGER :** Make sure that the machine is correctly connected to electrical system. To prevent any possibility of electric shock, make sure you use a neutral and ground electrical system. For maximum protection against electric shock, use a circuit protected by a GFCI.
- DANGER :** Do not damage the grounding plug in any way that could lead to death by electric shock. Do not cut, remove or break the grounding plug. Do not attempt to insert a 3-pole plug into any outlet or connector that is not a phase-to-neutral/earth ground outlet or connector. If the plug does not fit the outlet, contact an authorized electrician.
- DANGER :** Do not operate the machine if the power plug or power cord is damaged, as there is a danger of death from electric shock. If the cables or plugs are worn or damaged, have them replaced by the manufacturer or by the REPEX FLOOR customer service department or, in any case, by a person with similar qualifications in order to prevent any risk.

CABLES, EXTENSIONS AND PLUGS

Use only approved three-core 2.5 mm² cables, the maximum recommended length of a cable extension is 12.50 m; for lengths greater than 12.50 m use cables with larger cross-sections.

- DANGER :** Do not use the machine with cables of insufficient cross-section and/or excessive length, as this may cause injury to persons or damage to property.

MACHINE WITH SINGLE-PHASE 230V MOTOR. ~50-60Hz

For Europe, the power supply cable must be of type E/F approved CEE designation 7/7-3x2.5 mm

For versions other than the European version, consult REPEX FLOOR or an authorized distributor.

INSTRUCTIONS FOR REPLACING DUST BAGS

- DANGER :** The sanding dust may spontaneously ignite and cause injury or damage. The sanding powder should be properly disposed of as described in the procedure below.
- WARNING :** The filter bag must be replaced every 40m² of machine operation.
- WARNING :** The transparent plastic bag must be replaced when it is filled to a tier
- DANGER :** Never use the machine without dust bags. Sanding dust is classified as CMR because it causes injury or damage to persons. Carry out the entire operation below while wearing a respiratory protection mask type FFP3 NR D correctly.
- CAUTION :** In order to guarantee safety and 100% efficient filtration, please use only filter bags available from REPEX.
- CAUTION :** In order to guarantee 100% safety and water tightness, please use only bags available from REPEX.

CAUTION : It is strongly recommended to ask for the help of a person to hold a vacuum cleaner as close as possible to the openings of the bags when replacing them in order to avoid airborne dust as much as possible.

REPLACEMENT OF THE DOUBLE FILTER BAG

1. Stop the machine and unplug the power cable.
2. Wait until the bag and pouch have deflated completely to limit the amount of dust suspended.
3. Grab the bag as close to the hose as possible and tighten it with a disposable cable tie so that the bag will not open when it is removed from the machine.
4. Untighten the clamp to release the bag.
5. Carefully remove the bag from the machine and dispose it in a trash can.
6. Place a new bag on the hose pipe.
7. Close the pocket and bag by squeezing directly onto the hose.
8. Gently pull on the bag and pouch to check that they are properly attached to the hose.

8. RECOMMENDATIONS ON PREVENTION METHODS FOR USERS

PERSONAL PROTECTION MEANS

WARNING : The sanding dust spread in the air and can be inhaled while the sander is in use. Always wear a protective mask type FFP3 NR D against powder when using the sanding tool.

WARNING : Risk of serious injury to eyes and/or body if protective clothing or devices are not worn during sanding. Always wear safety goggles, protective clothing and a powder mask during all sanding operations.

WARNING : During any sanding operation the intensity of the noise may cause hearing damage if exposed for a long time. Always wear hearing protection during sanding operations.

PROTECTIONS AND DANGER SIGNALS

DANGER : Do not use the machine if it is not completely assembled, it may cause injury to persons and/or damage to property. Ensure that all clamping elements are closed. Make sure that the machine settings are carried out according to the specifications.

DANGER : Operating the sander without the guards and covers mounted and locked in position can cause personal injury and/or damage to property. Always make sure that all guards and covers are in place and securely fastened.

Sanding wooden floors can create an explosive environment. Cigarettes, cigars, pipes, lighters, pilot flames and other sources of fire can cause an explosion if they

- DANGER :** are active during sanding work. Fire sources should be kept completely away from the work area.
- DANGER :** Poorly ventilated work areas may create an explosive environment in the presence of combustible materials in the atmosphere, such as solvents, thinners, alcohols, fuels, some paints, wood powder and other combustible materials. Floor grinders may cause fire of combustible materials and fumes. Read the manufacturer's instructions for all chemicals used to determine their combustibility. Always ensure that the work area is well ventilated.
- DANGER :** Nails struck during sanding may generate sparks. Always remove all nails before sanding surfaces.
- DANGER :** If the power supply circuit is repeatedly interrupted or is undersized, there is a risk of death by electric shock. Check the fuses, the protective circuit or the supply line by an authorized electrician or by the REPEX FLOOR service department.
- DANGER :** Any servicing and/or repair work on a machine that is not properly disconnected from the power line may result to death by electric shock. Disconnect the power supply line before performing any maintenance and/or repair work.
- DANGER :** Use of this machine on a non-grounded circuit may result to death by electric shock. Never unplug or disconnect the ground wire. Contact an electrician if the ground wire is missing or if you are not sure the circuit is properly grounded.
- DANGER :** Do not use this machine if the power cord is damaged as this may result to electric shock. Do not operate this machine if the power cord is damaged. Do not pull on the power cord when moving the machine.
- DANGER :** Moving parts of the machine can cause serious injuries and/or damage. Be sure to keep your hands, feet, and loose clothing away from all moving parts of the sander.
- DANGER :** Be sure to disconnect the machine from the power supply when servicing or replacing the clear plastic bag or filter bag there is a risk of injury to the user and/or bystanders.
- WARNING :** Read and follow all instructions on the machine or in this manual because there is a risk of serious personal injury or property damage. Read and follow all safety instructions. Make sure all signs, decals, warnings, precautions, and instructions are attached to the machine. Obtain new plates from REPEX FLOOR or any authorized REPEX distributor.
- CAUTION :** Do not have any repairs carried out by unauthorized personnel there is a risk of personal injury or property damage.

CAUTION : If stored in a damp building, the machine may be damaged. Store the machine in a dry building.

INSTRUCTIONS FOR THE CORRECT USE OF THE MACHINE

The machine is suitable for professional use.

The information contained in this instruction manual highlights are potentially dangerous conditions for the operator and/or the machine. Read this manual carefully and familiarize yourself with the machine and get to know the situations where these conditions could be present.

Take all necessary steps to instruct the personnel who will use the machine.

Immediately report any damage to the machine or incorrect operation:

1. Keep hands and clothing away from rotating parts.
2. Keep hands on the handles of the machine while the engine is running.
3. Do not move away from the machine while the engine is running.
4. Do not operate the machine with the belt guard(s) and/or sanding belt cover(s) open.
5. Always operate the machine with the disposable bag and the over-bag filter with the over-bag properly closed in its own position.
6. Do not remove the disposable bag and/or the bag while the engine is running.
7. Do not open the bag while the motor is running.
8. Always unplug the power cable from the machine when servicing the machine.
9. Transport must be carried out with care considering the high weight of the parts in which the machine can be decomposed.
10. Always use the machine in well-ventilated areas.
11. The sanding dust must always be handled in the bags properly closed with a single-use cable tie.
12. Use the sanding belts supplied with the machine or the model specified in the instruction manual.
13. Lower the roller with the lever under the handle only when the motor is started and lift it up before switching off the motor.
14. Use the sander inside buildings.

9. CHARACTERISTICS OF THE MACHINE

Sanding belt size	200x750mm
Roll width	200mm
Roll diameter	190mm
Roller speed	1850 rpm
Engine	Single-phase 230V 2.2kW or 3kW motor
Control lever	Manoeuvrable at the handles
Safety motor protection	Thermal. In the event of a power failure, the motor will not restart without manual intervention.
Wheels	ø100mm and ø64mm replaceable

Bearings	Lifetime lubricated ball radials
Roller pressure adjustment	Adjustable by steering wheel with indicator
Weighted sound pressure level	A: 92 dB(A) emitted by the unit
Dimensions of the machine	1230mm x 350mm x 1010mm
Weight of the machine	90kg (motor: 35kg, chassis: 45kg, drum: 10kg).
Standard allocation	Bag and pockets for the powder. Keys, electric plug, use and maintenance manual.

10. INFORMATIONS ABOUT THE MACHINE

CAUTION : The machine has been developed for sanding only wood flooring.

CAUTION : Risk of injury to persons or damage to property when using the machine to move other objects or when moving on slopes. The machine may only be used for sanding dry, flat floors or floors with a maximum slope of 2%. Do not use the machine to sand steps or any furniture. Do not straddle the machine while it is in movement.

CAUTION : Do not leave the machine stopped in a spot while the roller is in contact with the surface as this may cause serious damage to the surface being worked on. To avoid damaging the surface, carefully approach the cutting line. Do not stop when lowering or raising the roller, but always move at a constant speed.

11. INSTRUCTIONS FOR STARTING UP THE MACHINE

To start the machine, follow the steps below:

1. Familiarize yourself with the machine and read all instructions related to hazards, warnings, and precautions. Make sure all operators have read this manual.
2. Attach the bag to the inside of the bag as described in the section "REPLACEING THE DOUBLE FILTER POCKET".

WARNING : The machine must not be connected to the electrical network to perform this manoeuvre.

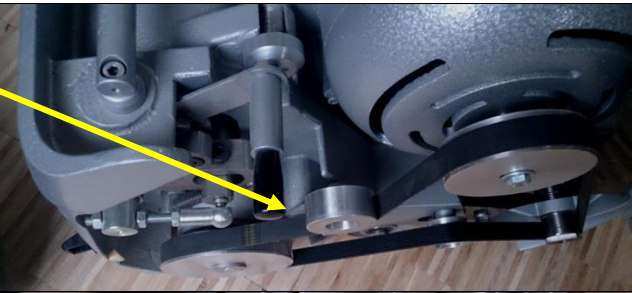

3. Locate the power supply. The socket must be compatible with the plug. To avoid electrical shock, the plug must be grounded and fused.

WARNING : The fuse must be 16A for a 2.2kW motor and 20A for a 3kW motor.

INSTRUCTIONS FOR SETTING UP A SANDING BELT

DANGER : The machine must not be connected to the electrical network to perform this operation.

1	Check that the roller lift lever is raised to the maximum.
2	Open both protective cover.

3	Pull the black lever upwards to loosen the sanding belt.	
4	Remove and replace the sanding belt.	
5	Fully lower the black lever to tension the sanding belt.	
6	Make a complete turn of the sanding belt with your hand to check the correct positioning of the belt.	

WARNING : Only use 200x750mm sanding belts.

WARNING : Always leave a sanding belt on the machine to protect the drum.

CAUTION : The sanding belt should extend approximately 1.5 mm beyond the drum. It must be centred correctly when the motor is started. If it does not, please refer to the chapter "PROCEDURE FOR CENTRALIZING THE SANDING BAND".

START UP

Electrical socket →



← Starter switch Electrical socket

← Stop button

1. Check that the drum lift lever is at the top so that the drum is lifted off the ground.
2. Check that the switch is in the 0 position and that the stop button is pressed down.
3. Plug the plug into the electrical outlet.
4. Disengage the stop button by turning it a quarter of a turn.

5. Turn the switch lever from position 0 to S. Hold this position until the engine reaches a sufficient speed before switching to position 1.

CAUTION : The time of this position allows the engine to start and must not exceed 5 seconds. Listening to the engine and seeing the transparent plastic bag inflated are very good indicators to switch to position 1.

1. After 1-2s in position 1, turn the switch lever to position 2 to reach the working speed of the machine.

MACHINE SHUTDOWN

Pour éteindre la machine, appuyez sur le bouton d'arrêt et mettez l'interrupteur de démarrage sur la position 0.

WARNING : Cette machine possède un contacteur de sécurité. En cas de panne de courant durant le travail, le contacteur se déclenche automatiquement en empêchant ainsi toute mise en marche accidentelle de la machine lors du rétablissement de la tension. Pour reprendre le travail reprendre les opérations du chapitre « DEMARAGE DE LA MACHINE ».

CAUTION : Eviter d'éteindre la machine avec le commutateur afin d'éviter une usure des composants électrique de la machine.

12. MARCHE A SUIVRE POUR LE REGLAGE DE LA MACHINE

MARCHE A SUIVRE POUR LE CENTRAGE DE LA BANDE ABRASIVE

The tape is automatically positioned in the center when the engine is started.

WARNING : The sanding belt should extend approximately 1.5 mm beyond the drum. It must be centred correctly when the motor is started.

However, the tape may be in a different position from the correct position. In that case, due to the dangerousness of the operation, it must be carried out by the REPEX FLOOR after-sales service or any operator trained by the manufacturer.

ADJUSTMENT OF PARALLELISM (ON A FLAT PLANE PARALLEL TO THE DRUM AXIS)

By lowering the clutch handle, after starting the engine, the wheels are retracted into the chassis and the machine is ready for operation.

For perfect parallelism, a square-headed adjusting screw is provided on the right-hand side of the chassis to ensure uniform sanding across the entire width of the drum.

Using a key of 11:

1. If the machine has a large amount of material on the pulley side of the machine, tighten the screw (clockwise).
2. If the machine is sanding heavily on the opposite side, loosen the screw.

CAUTION : This adjustment is carried out in the workshop when leaving the factory. It should be checked when replacing the drum (standard exchange).

SANDING PRESSURE ADJUSTMENT

To vary the pressure of the drum on the ground, use the adjusting wheel. This handwheel has a point that moves when it is screwed in or out.

1. To increase the sanding pressure, act on the handwheel to lower the marker into the groove.
2. To decrease the sanding pressure, move the handwheel to raise the marker in the groove.

CAUTION : La pression de ponçage doit être adaptée en fonction du type de grains de la bande abrasive.

13.REGULAR MAINTENANCE

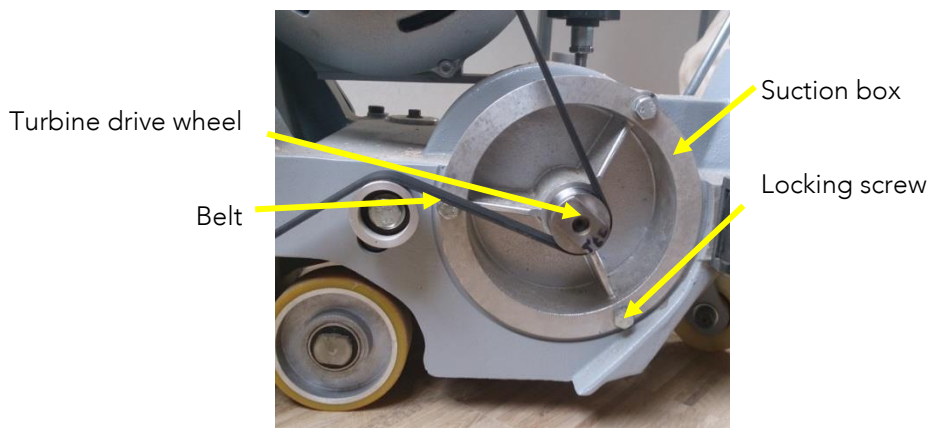
To ensure that the machine always works under good conditions, the following must be checked and maintained periodically:

SUCTION CHANNEL

It can happen that metallic foreign bodies (nails, screws, abrasive...) are aspirated by the sander and block the rotation of the turbine or block the canal, preventing a good suction of the wood dust. In that case, you will have to intervene to unblock the turbine. To do this, follow the procedure below :

DANGER : Carry out the entire operation below while wearing a PP3 type respirator correctly.

WARNING : The machine must not be connected to the electrical network to perform this operation.



1. Open the housing on the pulley side with the wrench.
2. Slacken the belt by acting on the motor thumbscrew.
3. Carefully remove the belt from the system.

4. Unscrew the three locking screws using the 13 **spanners**.
5. Remove the suction box to gain access to the impeller.
6. Remove the impeller, taking care not to lose the key.
7. Vacuum the entire chamber and remove all foreign matter.
8. Reassemble the impeller without forgetting the key.
9. Reassemble the suction box and secure it with the 3 screws.
10. Refit the belt.

DRUMS

Periodically check the machine body and wheels for dirt. Dirt can cause irregularities on the sanded surface. To remove the drum, follow the steps below:

DANGER : Carry out the entire maneuver below while wearing a type PP3 respiratory protection mask correctly.

WARNING : The machines must not be connected to the electrical network to perform this manoeuvre.

1. Remove the sanding belt. See chapter "INSTRUCTIONS FOR INSTALLING AN ABRASIVE BELT".
2. Unscrew the drum screw with a socket wrench 19.
3. Remove the drum

WARNING : Do not misplace the key and the drum spacer ring.

4. Clean or change the drum before mouting it.

WARNING : The drum should always be mounted in a slippery manner so that it can be removed easily. If the drum is mounted with difficulty, it may jam on the machine shaft, which can lead to major complications during a possible repair.

WHEELS

Periodically remove dirt from the machine body and wheels. Dirt can cause irregularities (wave effect) on a sanded surface.

DUST BAG AND POUCH

Check chapter "REPLACEMENT OF THE DOUBLE FILTER BAG".

BELT TENSION

Periodically check the belt tension. For adjustment, see chapter " REGULAR MAINTENANCE".

BOLLS BEARING

Periodically check the bearings for wear or damage according to the following program:

Wheels	After the first 2,500 hours of operation
Belt tensioner pulley	After the first 2,500 hours of operation
Fan impeller shaft	After the first 2,500 hours of operation
Tensioner rollers	After the first 2,500 hours of operation
Drum	After the first 5,000 hours of operation
Motor shaft	After the first 5,000 hours of operation

14. SPARE PARTS

Always use original REPEX FLOOR spare parts.

The guarantee and the consequent liability are invalidated if non-original spare parts are used and if repairs or adjustments are carried out by unauthorized persons.

15. AFTER SALES SERVICE

If you have any technical questions, require further information on our products or you would like to order any spare parts, please contact our customer service department, is at your complete disposal.

16. SITUATIONS D'URGENCE

SYMPTOMS	CAUSES	CURES
Ineffective sanding	A worn or unsuitable abrasive disc	Replace the belt
	Insufficient roller force	Increase belt tension Check "instructions for assembly after transport"
	Insufficient roller belt tension	Replace the abrasive
	Roller belt	Increase the roller pressure - see "Adjusting the sanding pressure".
Lack of engine power	Insufficient tension due to:	
	Excessive cable length or inadequate cable cross-section	Use cables with the appropriate cross-section and length.
	Precarious connections	Provide suitable connections
	faulty operating capacitor	Contact REPEX FLOOR
	Faulty engine	Contact REPEX FLOOR
Appearance of microcuts or "waves".	defective sanding belt	Replace the sanding belt
	Inserted or defective roller surfaces	Clean the outer surface of the turnbuckle Clean or grind or replace the shaped roller
	Incorrect wheel adjustment	Correct the wheel position see "Adjusting the parallelism".
Poor dust capture	Dust bag more than 1/3 full	Replace the transparent plastic bag see "Replacing the transparent plastic bag".
	Pocket for fine dust to work more than 40m2	Replace the pocket-see "Replacing the pocket".
	Blocked inlet pipe	Clean the suction system
Engine does not start	Faulty safety switch or contact	Contact REPEX FLOOR
	Faulty start capacitor	Contact REPEX FLOOR
	Cable cut	Contact REPEX FLOOR
	Power supply voltage drops	Control power supply and connections
Burns on the work surface	Worn sanding belt	Replace the abrasive disc

	excessive roller pressure	Decrease the polishing pressure- check « Adjusting the sanding pressure»
	Abrasive too fine	Use a thicker abrasive