

TECHNICAL DATA SHEET

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

NAME OF THE PRODUCT	MBX® Electric tool 3200
CODE	050236
DISTRIBUTOR	BOSSAUTO INNOVA, S.A.
ADDRESS	c/ Thomas Edison 16, Apartado de correos 95
CITY	08430 La Roca del Vallés (Barcelona) SPAIN
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E-MAIL	info@bossauto.com
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2. TECHNICAL DATA

Model	MBX 3200
Current	240 V AX +/- 10%
Revolutions	320 RPM
Amperage	2A
Net weight	1.8 kg
Colour	Orange

3. CONDITIONS OF USE

3.1. Work area

- Keep working area clean. Untidy work tables and areas are more likely to produce accidents.
- Keep non authorized people away from the working area, the tools and the cables.
- Use the machine in a well aired area. Electric tools should not be used in explosive atmospheres, such as atmospheres with liquids or gases. The engine could produce sparks that could ignite dust or gases.

3.2. Electric safety

- Electric tools should never be exposed to rain or humid atmospheres. Water can enter the electric tool and could increase the risk of electric shock. Keep working area illuminated to ensure good visibility.
- The risk of an electric shock can increase if your body is exposed to ground-connected structures such as pipes, radiators, kitchens or refrigerators. Do not damage the cable. Do not use the cable to transport tools nor unplugging the plug from the socket. Keep cable away from fuel, sharp-edged parts or any movable part.
- When using an electric tool outdoors, use an extension cord suitable for open air. See "extension cord" section.

3.3. Personal safety

- Use appropriate clothing. Do not use loose clothing, jewellery or clothing that can be attached to movable parts.
- Permanently wear eye protection, respiratory mask and safety non-slip footwear when using the machine.
- Keep control and stability when using the machine.
- Avoid accidental starts. Make sure the switch is off before plugging in the machine. Do not transport the machine with the trigger and do not plug it in with the switched turned on.
- Pay attention and use common sense when working with the machine and go over the work again. Do not use any tool when feeling tired.

3.4. Use and maintenance of the machine

- Store the tools in a dry atmosphere and keep out of reach of children and non-authorized people.
- Do not force the machine to work in an excessive speed or pressure. The tool works more efficiently and in a safer way when using an appropriate speed and pressure.
- Use this tool just with MBX accessories and pick the ones from MBX corresponding to the labour about to be done.
- Always use the tool with the appropriate amperage. Unstable amperages can damage the machine and cause serious injuries.
- Use a brace or any other practical way to hold and lean the material to a stable platform. Use both hands to work with the tool.
- Keep the tools in a good condition. Cutting tools must be kept sharpened and clean. This will reduce the risk for the tool to block and makes its control easier. Do not use the tool when being in a bad condition.
- Unplugging the switch from the energy source before making any adjustment, changing an accessory or storing the tool.
- Make sure the movable parts are aligned are unblocked. Plus, verify they are not broken or have any other condition that could affect the operation. If damaged, contact an authorised repair centre before using it again. If the trigger does not turn on or off the tool, do not use it. If a machine cannot be controlled by the trigger it could be dangerous and should be repaired.

3.5. Service

- The whole maintenance service should be done by properly qualified technical staff. The service and maintenance made by non-qualified staff increases the risk of electric charges or injuries.
- Only use electric spares when the maintenance service is done. The use of non-authorized parts or the non-compliance of the maintenance instructions excludes the guarantee and increases the risk of electric charges or injuries.

4. WARNING

Dust particles resulting from brushing contain chemical substances which could cause cancer, congenital defects or other damages in the reproductive system. Some examples of these substances are:

- Lead from lead based paints.
- Crystalline silica from bricks, cement or other brickwork products.
- Arsenic and chrome from chemically treated wood.

In order to reduce the exposition to these substances, ALWAYS:

- Work in a well ventilated area
- Use an OSHA-approved safety equipment, such as masks against the dust specially designed to filter microscopic particles, gloves, safety goggles and other clothes appropriate for personal protection.



4.1. Security rules – MBX Electric System Vinyl disc

1. Use this tool (MBX 3200) only the vinyl disc (11&23mm brushes).
2. When doing an operation, the machine must be hold through two surfaces: the upright and the insulated grabbing surface.
3. Keep hands away from all cutting edges and movable parts such as the vinyl disc.
4. Use the machine with the vinyl disc only for appropriate applications such as removing vinyls, stickers or glue.
5. Do not apply the vinyl disc against soft objects, people or animals.
6. Do not keep the vinyl disc in the same spot while using it.
7. Do not apply excessive pressure in the tool while working in glass because too many pressure can break the glass and cause injuries.
8. Note: begin from the edge until the vinyl.

5. CHARACTERISTICS

5.1. Double insulation

MBX Electric 3200 has a double insulation structure. Machines with this structure are built in two separate electrical insulating layers or with a double thickness insulation between the operator and the electrical system of the machine. MBX Electric 3200, built with this insulation, does not require ground connection. As a result, this tool comes fully equipped with a double pin switch that allows using electric extensions without grounded connection. The double insulation does not replace the general safety instructions, it is an additional caution against serious injuries from electrical errors in the inside of the tool.

5.2. Action switch

Control that the trigger works fine before plugging the tool and turn on or off the machine. To turn it on, press the trigger in the posterior part and push the trigger to the front. To turn it off, press the trigger in the posterior part and push the trigger to the back. Before plugging the machine, the trigger should have to be switched.

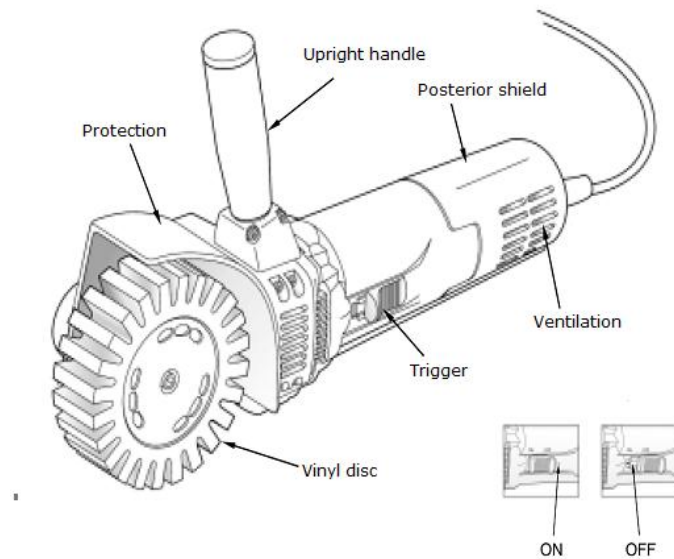
5.3. Electric extensions

The tools with double isolation and two-pin plug can be used with both two cord and three extension cord. Only outlined electrical extensions should be used when the extension cord is used in open air. Make sure it can be used in the open air. Each extension cord suitable for open air use can be used indoors.

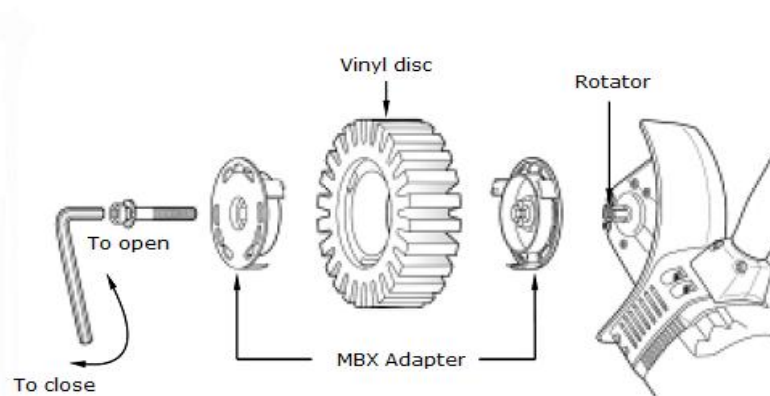
An extension cord should have a small bore in order to observe the safety rules and avoid current loss being hot-resistant. When using more than one extension in order to achieve a desired length, make sure each cord has, at least, the minimum size required. To determine the minimum recommended calibre, consult this chart:

Minimum sizes of the extension chart					
Cord length (feet)	25	50	100	150	200
Calibre (AWG)	18	18	16	14	12

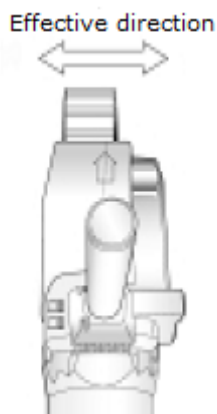
Make sure the cord is properly wired and in good electrical conditions. A damaged extension should be repaired or changed by an authorised person before using it again.



6. OPERATION



1. Always screw the upright handle in the machine.
2. Adapt the vinyl disc properly in the machine with the MBX adapter and the nut.
3. Use a switch to begin to work with the machine. See section 4.2. for instructions.
4. If necessary, make an operating test with the vinyl disc before starting the work in the surface and make sure the application in the surface is properly done.
5. Work with the machine in the surface without pressure.
6. Move the machine from left to right in an appropriate speed without being too much time in the same position.
7. If the vinyl disc is not used, store in a clean and dry atmosphere.



Warning: Unplug the machine before changing any accessories or making any adjustment. Only use MBX accessories. To reduce the risk of suffering injuries, always use safety goggles with protectors in the sides.

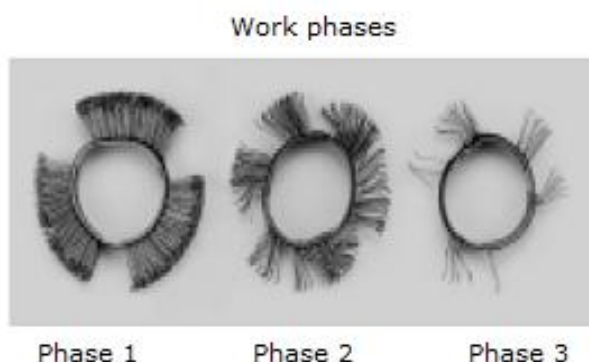
7. WORKING INSTRUCTIONS

7.1. Phases

Phase 1: The brush works in an optimum operating ratio: there is no need to make pressure on the brush for it to eliminate the desired materials. The points of the spines are sharpened and tight so they do not break.

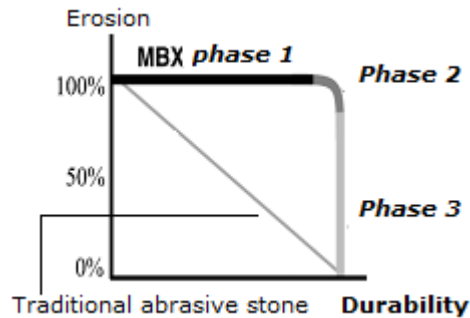
Phase 2: The points of the spines originally shaped are now worn out. The pressure made on the brush is increasing to balance the low efficiency of the points which are wearing out slowly. This makes the spines bend backwards and some of them eventually fall. The spine brush is worn out and should be replaced.

Phase 3: If the spine brush is not replaced in the second phase, its condition over time can be seen in the picture:



7.2. Explanation and advice

A traditional abrasive stone wears out following a constant curve (see diagram below). The consummation and residual duration range can be calculated with precision. On the contrary, the spine brush lasts and works visibly during a lot of time in phase 1. The transition between the second and the third phase suddenly happens, something considered normal.



Because of that, since the spin brush efficiency decreases, we recommend checking if the spines are worn out. When entering the second phase, the brush should be replaced. Increasing the pressure is not recommended since the duration of the brush could be reduced in the phase 1. The duration of the brush can be extended in the first phase by sharpening the spines again as indicated in the section 7.1.

Working instructions

Synchronized rotation/ opposite rotation

The duration of the tool decreases when applying pressure

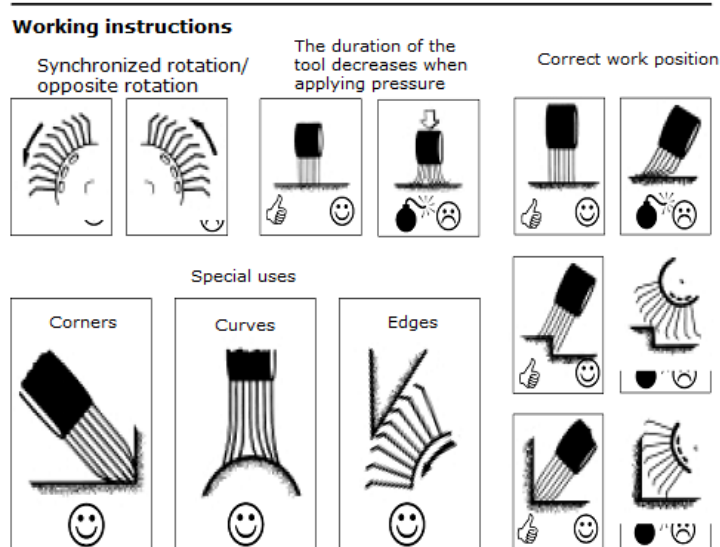
Correct work position

Special uses

Corners

Curves

Edges



8. SPECIFIC INSTRUCTIONS

8.1. Pointing of the brush spines

After using the brushes for a long time, the spines can become rounded and, consequently, its performance can be reduced. Pointing the spines can increase the original efficiency of the MBX brushes.

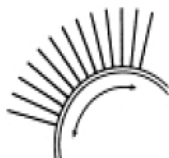
A. Bended spines

Pointing the brushes again in the opposite direction of the run. Make the brushes spin for 15 to 30 seconds pushing them slightly against a non-turning whetstone. Then assemble the brushes in the correct work direction.



B. Tight spines

Do not point the fine brushes again. This spine brushes cannot be pointed, they should be replaced.



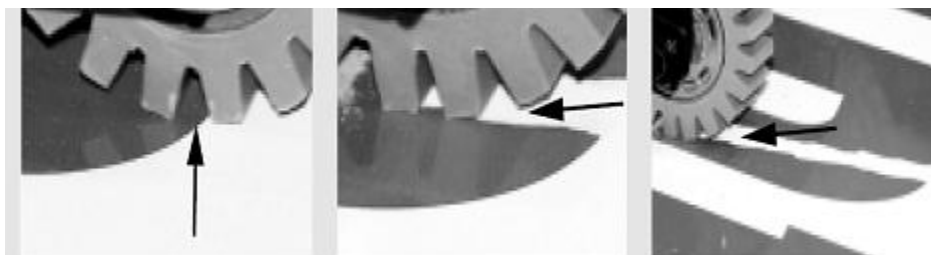
8.2. Vinyl disc

The vinyl disc is able to remove stickers, adhesive tape and glue from metallic surfaces. Do not let the vinyl disc stay in the same spot for a long time while using it. This could lead to damages in the surface due to applying excessive heat.



A. Instructions

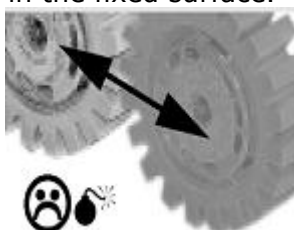
1. Start from the edge to the vinyl. Work from outside to inside, do not start in the fixed surface.



2. Move the disc from one side to another.



3. Do not move forward and toward in the fixed surface.



4. Do not tilt.



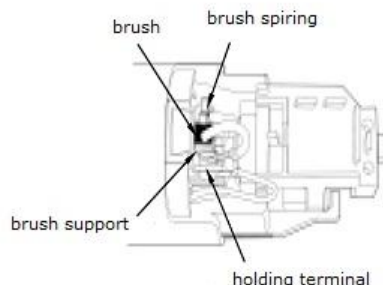
9. MAINTENANCE

9.1. Cleaning

Clean the dust and dirt from the tool after each use, especially from the ventilation, using compressed air. Dust and dirt can damage the refrigeration of the engine.

9.2. Changing of the brush

1. Unscrew the nut from the back shield and pull.
2. Take the receiver out of the support of the brush.
3. Lift the upper part of the brush ring pulling the upper part of the brush using pliers.
4. Take out the used brush and install de new ones.
5. Before closing the flap, make sure everything is correctly placed.
6. Screw the back shield with an appropriate nut.



Note: Both brushes need to be changed at the same time.

10. LUBRICATION

MBX electric 3200 must be lubricated regularly every six months depending on its use. If used constantly in production lines or heavy works, the necessary lubrication should be more frequent. This lubrication must be done by authorised staff or services.

The technical information is in accordance with our experience. We assure the quality of the product. However, the conditions of use are not under our control and we cannot assume any responsibility of the obtained results.