

accomplished by ensuring that the segmented portion of the blade is facing the wall or corner.

SCRAPING

Scrapers are suitable for removing old coats of varnish or adhesives, removing bonded carpeting, e.g. on stairs/steps and other small/medium size surfaces.

Select low to medium speed.



Rigid scrapers are for large area removal, and harder materials such as vinyl flooring, carpeting and tile adhesives. When removing strong, tacky adhesives, **grease the scraper blade surface with (petroleum jelly or silicone grease) to reduce gumming up.**

The carpet/vinyl flooring removes easier if it is scored prior to removal so the scraper blade can move underneath the flooring material.



Flexible scrapers are used for hard to reach areas and softer material such as caulk.

Mount the scraper blade with the logo side facing up. With the flexible scraper, make sure that the screw head does not make contact with surface during the scraping process (a 30 - 45 degree pitch is recommended). This can be accomplished by making sure that the tool is at an angle to the blade. You should be able to see the blade flex during the scraping process.

If you are removing caulk from a delicate surface such as a bath tub or tile back splash, we recommend taping or protecting the surface that the blade will rest on. Use rubbing alcohol to clean the surface after the caulk and/or adhesive is removed.

Turn the tool on and place desired accessory on the area where material is to be removed.

Begin with light pressure. The oscillating motion of accessory only occurs when pressure is applied to the material to be removed.

Excessive pressure can gouge or damage the background surfaces (e.g., wood, plaster).

SANDING

Sanding accessories are suitable for dry sanding of wood, metal, surfaces, corners and edges and hard to reach areas.



Work with the complete surface of the sanding pad, not only with the tip.

Corners may be finished using the tip or edge of the selected accessory, which should occasionally be rotated during use to distribute the wear on the accessory and backing pad surface.

Sand with a continuous motion and light pressure. **DO NOT** apply excessive pressure - let the tool do the work. Excessive pressure will result in poor handling, vibration, and unwanted sanding marks and premature wear on the sanding sheet.

Always be certain that smaller workpieces are securely fastened to a bench or other support. Larger panels may be held in place by hand on a bench or sawhorses.

Open-coat aluminum oxide sanding sheets are recommended for most wood or metal sanding applications, as this synthetic material cuts quickly and wears well. Some applications, such as metal finishing or cleaning, require special abrasive pads which are available from your dealer. For best results, use Bosch sanding accessories which are of superior quality and are carefully selected to produce professional quality results with your oscillating tool.

The following suggestions may be used as a general guide for abrasive selection, but the best results will be obtained by sanding a test sample of the workpiece first.

Grit	Application
Coarse	For rough wood or metal sanding, and rust or old finish removal.
Medium	For general wood or metal sanding
Fine	For final finishing of wood, metal, plaster and other surfaces.

With the workpiece firmly secured, turn tool on as described above. Contact the work with the tool after the tool has reached its full speed, and remove it from the work before switching the tool off. Operating your oscillating tool in this manner will prolong switch and motor life, and greatly increase the quality of your work.

Move the oscillating tool in long steady strokes parallel to the grain using some lateral motion to overlap the strokes by as much as 75%. **DO NOT** apply excessive pressure - let the tool do the work. Excessive pressure will result in poor handling, vibration, and unwanted sanding marks.

Selecting Sanding/Grinding Sheets

Material	Application	Grit Size
All wooden materials (e.g., hardwood, softwood, chipboard, building board) Metal materials—	For coarse-sanding, e.g. of rough, unplanned beams and boards	Coarse 40/60
Metal materials, fiberglass and plastics	For face sanding and planing small irregularities	Medium 80/120
 Sand Paper (Red)	For finish and fine sanding of wood	Fine 180/240
Paint, varnish, filling compound and filler	For sanding off paint	Coarse 40/60
 Sand Paper (White)	For sanding primer (e.g., for removing brush dashes, drops of paint and paint run)	Medium 80/120
	For final sanding of primers before coating	Fine 180/240

Introduction

INTENDED USE

This Bosch Multi-X Oscillating Tool is intended for dry sanding of surfaces, corners, edges, for scraping, for sawing soft metals,

wood and plastic components, and for grout removal using the applicable tools and accessories recommended by Bosch.

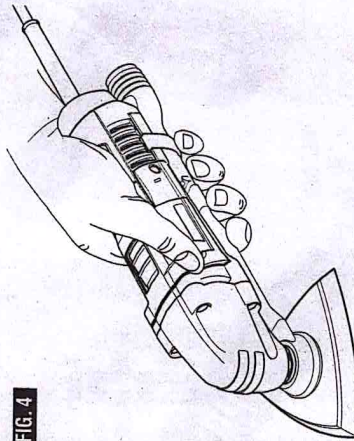
Operating Instructions

LEARNING TO USE THE TOOL

Getting the most out of your oscillating tool is a matter of learning how to let the speed and the feel of the tool in your hands work for you.

The first step in learning to use the tool is to get the "feel" of it. Hold it in your hand and feel its weight and balance (Fig. 4). Depending on the application, you will need to adjust your hand position to achieve optimum comfort and control. The unique comfort grip on the body of the tool allows for added comfort and control during use.

FIG. 4



When holding tool, do not cover the air vents with your hand. Blocking the air vents could cause the motor to overheat.

IMPORTANT! Practice on scrap material first to see how the tool's high-speed action performs. Keep in mind that your tool will perform best by allowing the speed, along with the correct accessory, do the work for you. Be careful not to apply too much pressure.

Instead, lower the oscillating accessory lightly to the work surface and allow it to touch the joint at which you want to begin. Concentrate on guiding the tool over the work using very little pressure from your hand. Allow the accessory to do the work.

NOTE: Speed is affected by voltage changes. A reduced incoming voltage will slow the OPM of the tool, especially at the lowest setting. If your tool appears to be running slowly, increase the speed setting accordingly. The tool may not start at the lowest switch setting in areas where outlet voltage is less than 120 volts. Simply move the speed setting to a higher position to begin operation.

Switch Setting	Speed Range /min (OPM)
1	8,000
2	10,400
3	12,800
4	15,200
5	17,600
6	20,000

You can refer to the charts on next page to determine the proper speed, based on the material and accessory being used. These charts enable you to select both the correct accessory and the optimum speed at a glance.

The variable speed control settings are marked on the speed control dial. The settings for approximate /min (OPM) are:

SLIDE "ON/OFF" SWITCH

The tool is switched "ON" by the slide switch located on the top side of the motor housing (Fig. 1).

TO TURN THE TOOL "ON" slide the switch button forward to the "I".

TO TURN THE TOOL "OFF" slide the switch button backward the "0".

ELECTRONIC FEEDBACK

Your tool is equipped with an internal electronic feedback system that provides a "soft start", which will reduce the stresses that occur from a high torque start. The system also helps to keep the preselected speed virtually constant between no-load and load conditions.

VARIABLE SPEED DIAL

This tool is equipped with a variable speed dial. The speed may be controlled during operation by presetting the dial in any one of six positions (Fig. 1).

OPERATING SPEEDS

The Bosch Multi-X has a high oscillating motion of 8,000 - 20,000 /min (OPM). The high speed motion allows the Bosch Multi-X to achieve with excellent results. The oscillating motion allows the dust to fall to the surface rather than slinging particles into the air.

To achieve the best results when working with different materials, set the variable speed control to suit the job (See Speed Chart on Page 12 for guidance). To select the right speed for the accessory in use, practice with scrap material first.