OPERATION

**⚠ CAUTION!**

**Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking function on the tool.**

Installing or removing battery cartridge (see Figure A)

Figure A: 1. Button 2. Battery cartridge

**⚠ CAUTION!**

* **Always switch off the tool before installing or removing of the battery cartridge.**
* **Hold the tool and the battery cartridge firmly when installing or removing battery cartridge.** **Failure to hold the tool and the battery cartridge firmly may cause them to slip off your hands and result in damage to the tool and battery cartridge and a personal injury.**

To remove the battery cartridge, slide it from the tool while sliding the button on the front of the cartridge.

To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, it is not locked completely.

**⚠ CAUTION!**

* **Always install the battery cartridge fully until the red indicator cannot be seen. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.**
* **Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.**
* **Before installing the battery cartridge into the tool, always check to see that the slide switch actuates properly and returns to the "OFF" position when the rear of the slide switch is depressed.**
* **Switch can be locked in "ON" position for ease of operator comfort during extended use. Apply caution when locking tool in "ON" position and maintain firm grasp on tool.**

**Slide switch (see Figure B)**

To start the tool, slide the slide switch toward the "I (ON)" position by pushing the rear of the slide switch. For continuous operation, press the front of the slide switch to lock it.

To stop the tool, press the rear of the slide switch, then slide it toward the "O (OFF)" position.

**Accidental re-start preventive function**

Even if the battery cartridge is installed on the tool with the slide switch in the "I (ON)" position, the tool does not start. To start the tool, first slide the slide switch toward the "O (OFF)" position and then slide it toward the "I (ON)" position.

**Shaft lock (see Figure C)**

**⚠ CAUTION!**

**Never actuate the shaft lock when the spindle is moving. The tool may be damaged.**

Press the shaft lock to prevent spindle rotation when installing or removing accessories.

Assembly

**⚠ CAUTION!**

**Always be sure that the tool is switched off and the battery cartridge is removed before carrying out any work on the tool.**

Installing side grip (handle) (see Figure D)

**⚠ CAUTION!**

**Always be sure that the side grip is installed securely before operation.**

Screw the side grip securely on the position of the tool as shown in the figure.

**Installing or removing wheel guard (For depressed center wheel, multidisc / abrasive cut-off wheel, diamond wheel) (see Figure E)**

Figure E: 1. Wheel guard 2. Lock nut 3. Screw

**⚠ WARNING!**

* **When using a depressed center grinding wheel/multidisc, wire wheel brush, cut-off wheel or diamond wheel, the wheel guard must be fitted on the tool so that the closed side of the guard always points toward the operator.**
* **When using an abrasive cut-off / diamond wheel, be sure to use only the special wheel guard designed for use with cut-off wheels.**

For tool with locking screw type wheel guard

Mount the wheel guard with the protrusions on the wheel guard band aligned with the notches on the bearing box. Then rotate the wheel guard to such an angle that it can protect the operator according to work. Be sure to tighten the screw securely. To remove wheel guard, follow the installation procedure in reverse.

**Installing or removing depressed center wheel or multi disc (optional accessory) (see Figure F)**

Figure F: 1. Lock nut 2. Depressed center wheel 3. Inner flange

**⚠ WARNING!**

* **When using a depressed center wheel or multi disc, the wheel guard must be fitted on the tool so that the closed side of the guard always points toward the operator.**
* **Only actuate the shaft lock when the spindle is not moving.**

**Mount the inner flange onto the spindle. Fit the wheel/disc on the inner flange and screw the lock nut onto the spindle.**

To tighten the lock nut, press the shaft lock firmly so that the spindle cannot revolve, then use the lock nut wrench and securely tighten clockwise.

**To remove the wheel, follow the installation procedure in reverse (see Figure G)**

Figure G: 1. Spanner 2. Shaft lock

**Installing or removing abrasive disc (optional accessory)**

Mount the rubber pad onto the spindle. Fit the disc on the rubber pad and screw the lock nut onto the spindle. To tighten the lock nut, press the shaft lock firmly so that the spindle cannot revolve, then use the lock nut wrench and securely tighten clockwise.

To remove the disc, follow the installation procedure in reverse.

NOTE: Use sander accessories specified in this manual. These must be purchased separately.

**⚠ WARNING!**

* **It should never be necessary to force the tool. The weight of the tool applies adequate pressure. Forcing and excessive pressure could cause dangerous wheel breakage.**
* **ALWAYS replace wheel if tool is dropped while grinding.**
* **NEVER bang or hit grinding disc or wheel onto work.**
* **Avoid bouncing and snagging the wheel, especially when working corners, sharp edges etc. This can cause loss of control and kickback.**
* **NEVER use tool with wood cutting blades and other saw blade. Such blades when used on a grinder frequently kick and cause loss of control leading to personal injury.**

**⚠ CAUTION!**

* **Never switch on the tool when it is in contact with the workpiece, it may cause an injury to operator.**
* **Always wear safety goggles or a face shield during operation.**
* **After operation, always switch off the tool and wait until the wheel has come to a complete stop before putting the tool down.**

**Grinding and sanding operation (see Figure H)**

Always hold the tool firmly with one hand on housing and the other on the side handle. Turn the tool on and then apply the wheel or disc to the workpiece.

In general, keep the edge of the wheel or disc at an angle of about 15 degrees to the workpiece surface.

During the break-in period with a new wheel, do not work the grinder in the B direction or it will cut into the workpiece. Once the edge of the wheel has been rounded off by use, the wheel may be worked in both A and B direction.

**⚠ WARNING!**

* **When using an abrasive cut-off / diamond wheel, be sure to use only the special wheel guard designed for use with cut-off wheels.**
* **NEVER use cut-off wheel for side grinding.**
* **Do not "jam" the wheel or apply excessive pressure. Do not attempt to make an excessive depth of cut. Overstressing the wheel increases the loading and susceptibility to twisting or binding of the wheel in the cut and the possibility of.**

**Operation with abrasive cut-off / diamond wheel (optional accessory) (see Figure I)**

Figure I: 1. Lock nut 2. Abrasive cut-off wheel/diamond wheel

3. Inner flange 4. Wheel guard

Remove the battery cartridge from the tool and place it upside down allowing easy access to spindle. Mount the inner flange and abrasive cut-off / diamond wheel onto the spindle. Tighten the lock nut securely with supplied wrench. The direction for mounting the lock nut and the inner flange varies by wheel thickness.

Refer to the table below.

**Kickback, wheel breakage and overheating of the motor may occur.**

Do not start the cutting operation in the workpiece. Let the wheel reach full speed and carefully enter into the cut moving the tool forward over the workpiece surface. The wheel may bind, walk up or kickback if the power tool is started in the workpiece.

During cutting operations, never change the angle of the wheel. Placing side pressure on the cut-off wheel (as in grinding) will cause the wheel to crack and break, causing serious personal injury.

A diamond wheel shall be operated perpendicular to the material being cut.

**Operation with wire cup brush (optional accessory)**

**⚠ CAUTION!**

* **Check operation of brush by running tool with no load, ensure that no one is in front of or in line with brush.**
* **Do not use brush that is damaged, or which is out of balance. Use of damaged brush could increase potential for injury from contact with broken brush wires.**

**Wire cup brush (see Figure J)**

Remove the battery cartridge from the tool and place it upside down allowing easy access to spindle. Remove any accessories on spindle. Thread wire cup brush onto spindle and tighten with supplied wrench. When using brush, avoid applying too much pressure which causes over bending of wires, leading to premature breakage.

**Operation with wire wheel brush (optional accessory)**

**⚠ CAUTION!**

* **Check operation of wire wheel brush by running tool with no load, ensure that no one is in front of or in line with the wire wheel brush.**
* **Do not use wire wheel brush that is damaged, or which is out of balance. Use of damaged wire wheel brush could increase potential for injury from contact with broken wires.**
* **Always use guard with wire wheel brushes, assuring diameter of wheel fits inside guard. Wheel can shatter during use and guard helps to reduce chances of personal injury.**

**Wire wheel brush (see Figure K)**

Remove the battery cartridge from the tool and place it upside down allowing easy access to spindle. Remove any accessories on spindle. Thread wire wheel brush onto spindle and tighten with the wrenches.

When using wire wheel brush, avoid applying too much pressure which causes over bending of wires, leading to premature breakage.