

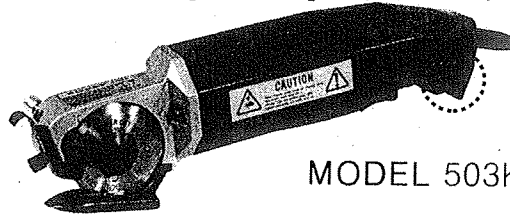
# T U F F Y ELECTRIC HANDY CUTTER

**CONSEW** Since 1939

## MODEL 503K-2 1/2" CUTTER PARTS LISTS

DRIVING MECHANISM		MOTOR PARTS		HOLDER & ITS ACCESSORIES			
<p><b>DRIVING MECHANISM</b></p> <ul style="list-style-type: none"> <li>4002 • Gear Housing</li> <li>450 • Worm</li> <li>452A • Worm Wheel</li> <li>500 • Allen Screw</li> <li>504 • Knife Lock Screw</li> <li>514 • Filler Head Screw</li> <li>522 • Screw for Knife Guard</li> <li>600 • Stepped Shaft</li> <li>606 • Shaft</li> <li>608 • Head Screw</li> <li>652 • Ball Bearing</li> <li>654 • E Ring</li> <li>656 • Snap Ring</li> </ul>	<p><b>SHARPENING MECHANISM</b></p> <ul style="list-style-type: none"> <li>520 • Spring Pin</li> <li>528 • Knife Guard</li> <li>602 • 6 Sided Knife</li> <li>508 • Undulated Washer</li> <li>682 • Washer</li> <li>1882 • Cover Plate</li> <li>510 • Stepped Screw</li> <li>602 • Flat Head Screw</li> <li>608 • Push Button</li> <li>652 • Stepped Shaft</li> <li>654 • Spring</li> </ul>	<p><b>MICRON SYSTEM FEET</b></p> <ul style="list-style-type: none"> <li>882 • Sharpening Stone-Medium</li> <li>690 • Spring Pin</li> <li>699 • Knife Guard</li> <li>700 • 6 Sided Knife</li> <li>722 • Undulated Washer</li> <li>724 • Washer</li> <li>1726 • Cover Plate</li> </ul>	<p><b>MOTOR PARTS</b></p> <ul style="list-style-type: none"> <li>500 • Motor (220V) Complete</li> <li>412 • Insulator</li> <li>416 • Coupling</li> <li>500 • Carbon Brush Complete</li> <li>759Z • Motor (110V) Complete</li> <li>762 • Motor (220V) Complete</li> <li>770 • Motor (220V) Complete</li> </ul>	<p><b>MICRON SYSTEM FEET</b></p> <ul style="list-style-type: none"> <li>402 • Base</li> <li>501 • Flat Head Screw</li> <li>512 • Spring</li> <li>516 • Screw for Base</li> <li>522 • Truss Head Screw</li> <li>706 • Cutting Tip (Base)</li> <li>719 • Spring Plate</li> </ul>	<p><b>KNIVES</b></p> <ul style="list-style-type: none"> <li>700 • Flat Head Screw</li> <li>702 • Base</li> <li>703 • Cord Cover</li> </ul>	<p><b>FRAME &amp; SWITCH</b></p> <ul style="list-style-type: none"> <li>502 A-1 • Round Head Screw</li> <li>502 A • Round Head Screw</li> <li>409Z • Nut</li> <li>407 • Cord (110V) 2pin</li> <li>720A • Cord (220V) 3wire</li> <li>764 • Micro Switch</li> <li>768 • Condenser</li> </ul>	<p><b>KNIVES (Standard)</b></p> <ul style="list-style-type: none"> <li>70 • 8 Sided Knife (Mounted with Cutter)</li> <li>702 • Round Knife (Included as Accessories)</li> <li>703 • 8 Sided Knife (Option as Extra Accessories)</li> </ul>

# T U F F Y HANDY CUTTER



MODEL 503K-2<sup>IN</sup> CUTTER

The electric MINI CUTTER provides a most powerful and amazingly fastest cutting performance, having many distinguished features : namely, 1) Recessed sharp for visibility, 2) Double insulated motor, 3) One-touch sharpener, 4) Carbide stationary counter cutting blade, 5) built-in lubricator, 6) Light weight, 7) Different type of knives.

The following are the operating instructions for your CUTTER (all numbers given below refers to parts list on next pages.)

## START TO OPERATE

Connect male plug to the electric power supply outlet of same voltage as shown on name plate. To operate CUTTER, press switch cover (409Z) and to release the switch cover, it will stop operate. The motor is double insulated (requires no grounding.)

## CUTTING

Maximum cutting height is 8mm (5/16") depending on type of materials. Lays should not be higher than its height.

## SHARPENING KNIFE

Lightly press the sharpener push button (528) just enough for sharpening stone (668Z) to grind the rotating knife (Don't press too hard because it will burr the knife.) You should keep knife always sharp for clean and accurate cutting.

## LUBRICATION

- (a) Felt oiler (680) behind knife --- Requires oil only when cutting plastics or materials which is apt to adhere to knife.
- (b) Gear (450 & 452A) --- in case CUTTER uses daily, grease gears each week with grease (672) through bushing located in back of gear housing (400Z).
- (c) Motor ball bearings (652) --- Grease every 12 months in case CUTTER is in regular use. Remove old grease with cleaning fluid.

## CHANGE KNIFE

Insert an allen key (674) into hole in knife. Unscrew knife lock screw (504) with coin. Tip over CUTTER and push out the knife with finger. Replace the worn knife and also the counter cutting blade (706), if necessary. Lock knife with lock screw and reset the oscillating oiler. To obtain clean cutting, requires counter cutting blade set at angle of 10° against to the knife --- to brush only the edge of the knife. When knife is worn down to about (42mm) (1-5/8"), it must be replaced.

## CHANGE SHARPENING STONE

remove the knife, then loose stepped screw (508) to take out sharpening mechanism. Remove sharpening stone (688Z) from stepped shaft (602) by unscrewing flat head screw (510) and put in new sharpening stone. Remove compression spring (620) by unscrewing push button (528) on stepped shaft. Replace sharpening mechanism into gear housing (400Z), insert stepped screw through gear housing and into stepped shaft. Then replace compression spring and push button. To clean sharpening stone, simply use cleaning fluid and a brush to keep it clean.

## CHANGE CARBON BRUSHES

Check carbon brushes (758) every 200 hours of use. Using allen key (674) remove the three socket screws (502A) from the frame (407). Slide off the frame. Then remove the brass screw from the exposed motor and replace the old carbon brushes with new ones.

## MOTOR SPECIFICATIONS

VOLTAGE	CURRENT	HERTZ	AMPERE
100~120V	A.C.	50/60	0.5/0.6
220~240V	A.C.	50/60	0.25/0.3

Remarks : When ordering, indicate VOLTAGE & HERTZ of your country.

## MAINTENANCE

- ① To maintain perfect cutting performance, replace the knife when the knife is worn down to about 42mm (1-5/8"). When the cutter is used with a worn knife, the cutting edge will make contact further back on the carbide counter cutting blade - this causes a loss of the scissor action almost all cutting action is lost.
- ② Operator should use care in operating the cutter without touching the air ventilation holes while using the cutter. Since it will cause the cutter to get excessively hot and may burn out the motor. The ventilation hole should be kept clean of lint or dirt at all times so that air can make the motor cool while in operation.