Instruction Manual

Power Hand® Z-SWX Swing Head Assembly

SKU: 510-2256



Gesswein®

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Indroduction

The Gesswein Power Hand 2X Z-SWX Head Assembly is engineered and manufactured to a high degree of precision and will give you many years of trouble-free service. Backed by a limited warranty that covers wear parts for 90 days and overall balance of parts for six months.

This Head Assembly is designed to be used on Power Hand 2X motors in conjunction with Power Hand 2X Single, Standard, Dual, Jewelers' Micromotor, Power Carver II and Bright-Cutting Controllers. These controllers convert the Alternating Current (AC) power supply to a variable Direct Current (DC) by means of an I.C. "transistorized" automatically controlled circuit.

The Gesswein Power Hand 2X handpiece series consists of nine models and eleven head assemblies with maximum operating speeds ranging from 8,000 to 55,000rpm and 0 to 117 strokes per second. All models are identified by their names, which are engraved on the motor housings.



1. Accessories

Included Accessories

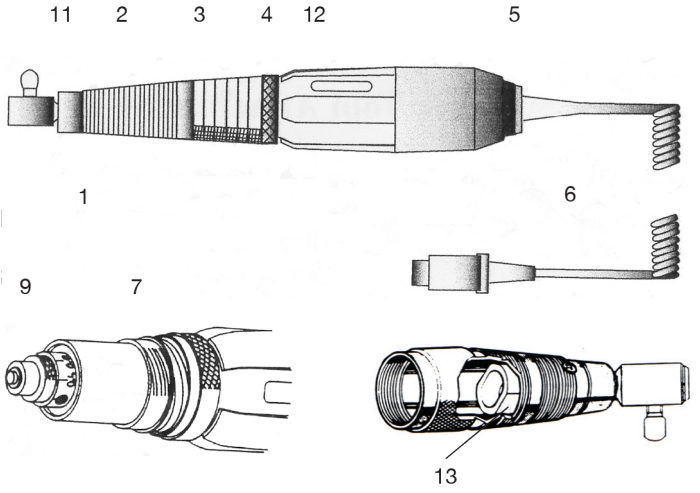
1. One Allen Wrench
2. One Tool Pin

Optional Accessories

1. Handpiece Extension Cord (#510-1120): adds 6 feet, or almost 2 meters, to the 1.7-meter rotary handpiece cord
2. Handpiece Cradle Rest (#510-1130): provides a safe holding place for handpiece when not in use
3. Variable-Speed Foot Rheostat (#510-3100)
4. On/Off Foot Switch (#510-3105)

2. Parts Nomenclature

1. Swing Arm (Tool Holder)
2. Swing Arm Pivot Point (indicated by a red ring)
3. Top Cover
4. Knurled Ring
5. Motor Cover
6. Electric Cord with 3-Pin Plug
7. Main Eccentric Shaft
8. Stroke Adjustment Screw (Hex Socket Set Ring)
9. Knurled Adjusting Ring
10. Drive Bearing
11. Tool-Securing Screw
12. Motor Connecting Ring
13. Nylon Drive Shoe



3. Stroke Adjustment

The SZX Profiler has an adjustable stroke of 0-1.6mm, measured at the Tool Holder. However, the stroke will be greater at the tool end. To adjust stroke, first remove the Top Cover by firmly grasping the Knurled Ring (see fig. 2) and unscrewing in a counterclockwise direction. Completely remove the Top Cover from the handpiece motor. Next, loosen the Hex Socket Set Screw (see fig. 3) located on the side of the main eccentric shaft using the Allen Wrench provided. Now line up the mark on the Knurled Adjusting Ring with the stroke setting marked in millimeters on the side of the main shaft. Finally, tighten the Hex Socket Set Screw, and firmly secure the handpiece Top Cover to the motor by screwing in a clockwise direction.

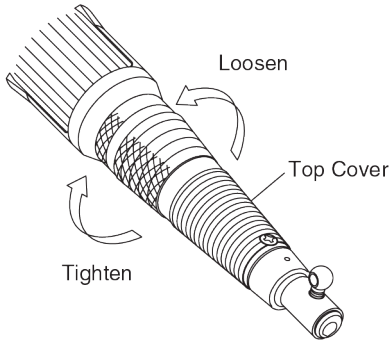


Fig. 2

3. Tool Attachment

Loosen the Tool-Securing Screw located on the Swing Arm (Tool Holder) using the Tool Pin Provided. Place the tool into the Tool Holder, and fasten securely (see fig. 4).

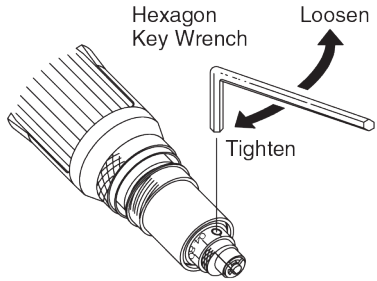


Fig. 3

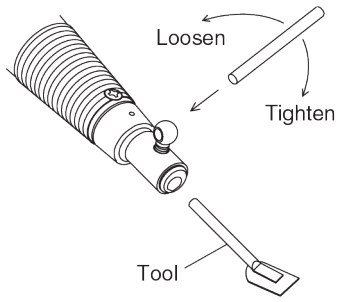


Fig. 4

5. Operating Procedure

With your SZX Profiler adjusted for stroke and with a selected tool fitted, connect the Gesswein Power Hand Controller to an electrical supply and the profiler to controller.

Set the Slide Rheostat on the Controller to “Low” or the “0” position. Put the Controller Main Switch to the “ON” position, which lights up a pilot light that indicates your SZX Profiler is ready to use.

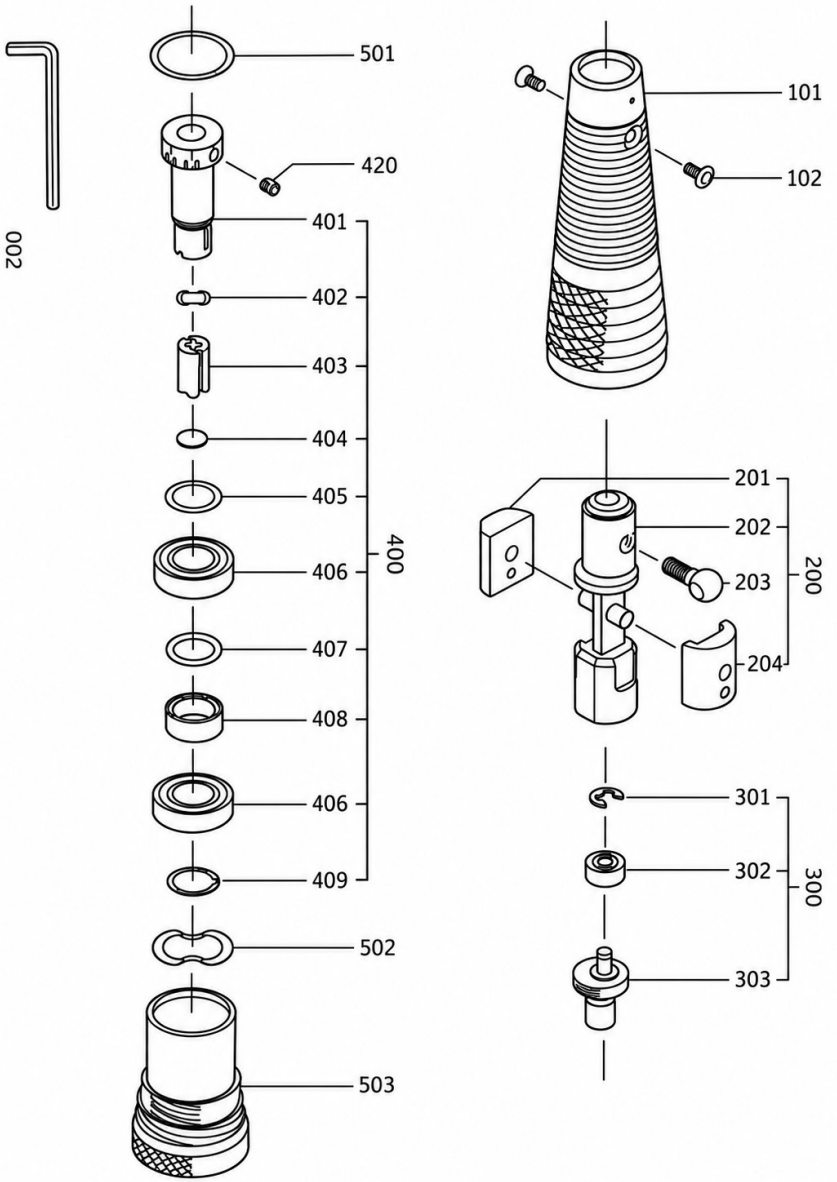
To increase the speed of the SZX Profiler, move the Slide Rheostat toward High or “10” and the desired reciprocating frequency. You can now begin working. When work is completed, put the Main Switch to “OFF.”

To operate your handpiece using the optional Variable-Speed Foot Rheostat or optional On/Off Foot Switch, please refer to the Power Hand 2X Controller Instruction Manual for proper connection. The handpiece will not run until the foot rheostat/switch is depressed. The rheostat provides infinitely variable speed control; the switch only turns handpiece on and off (operates at speed selected on control unit).

Z-SWX Parts List

When ordering spare parts, always specify part# (or item# if applicable) and description.

Part#	Item#	Description
Z-SWX-101	8960230	Top Cover
Z-SWX-102	8960231	Oval Countersunk Set Screw
Z-SWX-200	8960232	Swing Arm Complete
Z-SWX-201	8960233	Swing Arm Support B
Z-SWX-202	8960234	Swing Arm
Z-SWX-203	8960235	Tool-Securing Screw
Z-SWX-204	8960236	Swing Arm Support A
Z-SWX-300		Eccentric Shaft Complete
Z-SWX-301	8960156	E-Type Clip Ring
Z-SWX-302	5103076	Ball Bearing
Z-SWX-303	8960238	Eccentric Shaft
Z-SWX-400	8960241	Main Shaft Complete
Z-SWX-401	8960242	Main Shaft
Z-SWX-402	8960067	Coil Spring
Z-SWX-403	5100151	Nylon Coupler (Joint)
Z-SWX-404	8960068	C-Type Clip
Z-SWX-405	8960243	Teflon Spacer
Z-SWX-406	5103079	Ball Bearing
Z-SWX-407	8960244	O-Type Rubber Ring
Z-SWX-408	8960245	Bearing Spacer
Z-SWX-409	8960246	C-Type Clip Ring
Z-SWX-420	8960240	Hexagon Socket Set Screw
Z-SWX-501	8960239	C-Type Clip Ring
Z-SWX-502	8960247	Wave Washer
Z-SWX-503	8960248	Lock Ring Completed
Z-SWX-002	8960249	Hexagon Key Wrench


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Controllers and handpieces combine to create the most versatile finishing system in the industry, offering rotary, profiling and belt sanding action.

Component Selection:

- PH3 controller
- 6 motors (3 high torque, 2 standard, and 1 high speed)
- A selection of 8 heads
- 2 reciprocating profilers
- 1 side-to-side profiler
- Belt Sander

Safety Recommendations:

Prolonged use of vibrating or reciprocating tools may result in vibration-induced circulation procedures. Using hand protection (i.e., insulated gloves) and taking frequent breaks can only help minimize but not guarantee against injury. Operating these types of tools in cold weather or with a tight grip will reduce the period of operation before risking potential injury. Individuals with a tendency to suffer from poor circulation, frequently cold fingers or itchy hands should closely monitor the condition of their hands. If symptoms appear, seek medical advice immediately.

Contact Us

We're Here to Help

For any product questions, troubleshooting, or assistance, please reach out to our customer service team. We'll make sure you get the support you need.

Customer Support

Email: info@gesswein.com
Phone: (203)-366-5400

Support Hours

Mon - Fri 8:30AM - 5PM EST

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