



"Ergonomic Solutions"



MADE IN THE USA

Honsa Ergonomic Technologies, Inc.

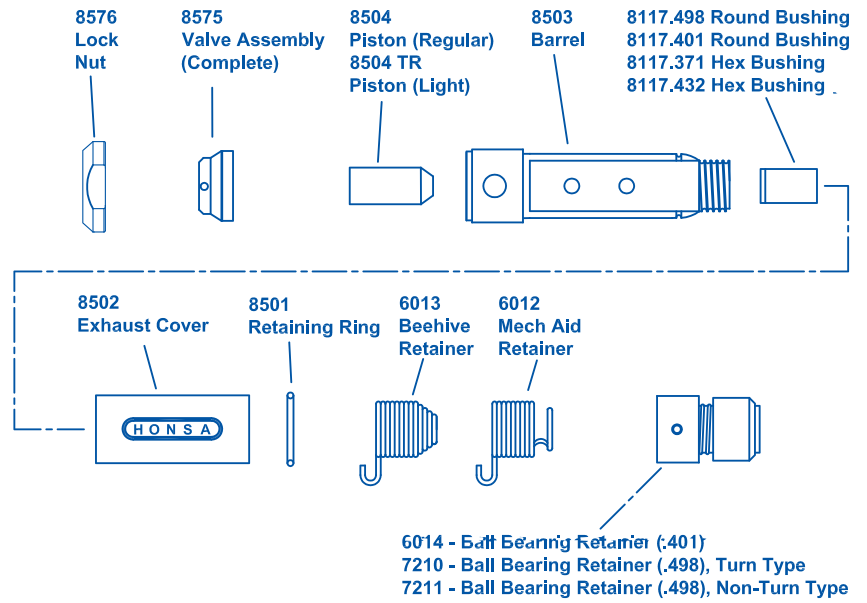
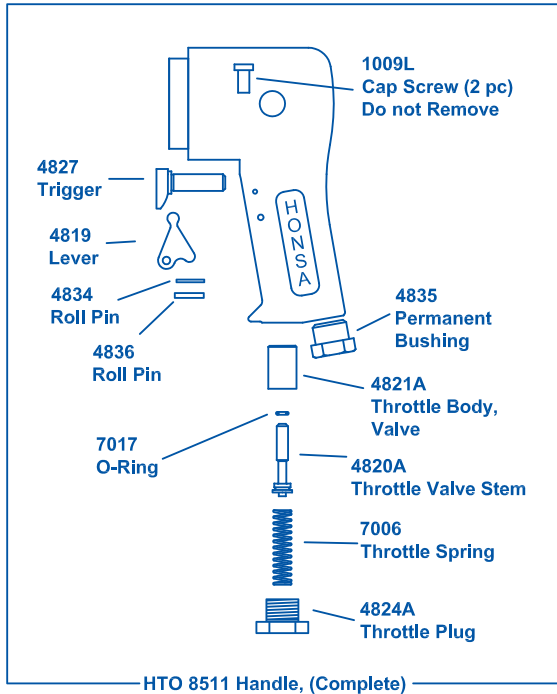
Made in the U.S.A.

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HTO 85 AIR HAMMER



*** LUBRICATE DAILY ***

with HONSA Bio-Green Air Tool Lubricant 10WT

MAINTENANCE PROCEDURES FOR HONSA TOOLS HTO 85 AIR HAMMERS

TO ASSEMBLE TOOL

1. Before installation or removal of any barrel, the socket head cap screws must be in both holes in the handle housing. **These screws are installed by the manufacturer and should permanently remain in place. If missing, DO NOT PROCEED as permanent damage may result to the urethane during the tightening or loosening. FAILURE TO USE PROPER PARTS VOIDS WARRANTY.**
2. Place barrel flats in vise jaws, insert piston in barrel, place valving on barrel, and screw onto handle clockwise. Remove tool from vise and place tool back into vise with barrel pointing up. Torque barrel to 120 ft lbs. Torque lock ring to 120 ft lbs. Install exhaust shield and retaining ring. Make sure the assembly is completely tight.
3. Install a blank chisel and retainer. Test tool by placing blank chisel against an approved surface, and run tool to test for proper operation.

TO DISASSEMBLE TOOL

1. Disconnect air supply from tool. Remove chisel from nose end of tool.
2. Before installation or removal of any barrel, the socket head cap screws must be in both 5/16" holes in the handle housing. **These screws are installed by the manufacturer and should permanently remain in place. If missing, DO NOT PROCEED as permanent damage may result to the urethane during the tightening or loosening. FAILURE TO USE PROPER PARTS VOIDS WARRANTY.**
3. Remove retaining ring and exhaust shield. Place barrel flats in vise jaws. Loosen lock ring. Loosen handle by turning handle counterclockwise until handle can be removed from barrel assembly. Inspect piston, valve parts, barrel, nose bushing, exhaust and retaining ring for wear or damage. Replace any worn parts. Inspect handle parts for wear or damage, and replace as needed.

USE OF OTHER THAN HONSA REPLACEMENT PARTS MAY DECREASE PERFORMANCE, INCREASE MAINTENANCE AND MAY VOID WARRANTY.

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HONSA TOOL OPERATING INSTRUCTIONS/CAUTIONS

-BEFORE PLACING THIS TOOL IN OPERATION, READ THE FOLLOWING INSTRUCTIONS-

This new tool is designed to reduce the vibration normally transmitted to the Operator. To be effective, it must be used safely. The Operator should only hold the tool by the handle provided. The vibration damping system is built into this handle, so the Operator should not hold this tool by the barrel, chisel, or rivet set. If the operation requires holding a chisel or rivet set, a HONSA TOOLS ISOLATOR should be utilized on that portion of the tool.

WARNING: While this tool is designed to significantly reduce the vibration, it is not guaranteed, nor implied to totally remove vibration. Safety procedures and evaluation systems such as those recommended and described in ANSI s3.34, ISO 5349 & ISO 8662 and by the ACGIH for threshold limits of vibration should be used as guidelines for daily exposure of hand-arm vibration. These values should be used as guides for the control of hand-arm exposure and because of individual susceptibility, should not be regarded as defining a boundary between safe and dangerous levels.

THE FOLLOWING SAFETY PROCEDURES ARE RECOMMENDED BY THE COMPRESSED AIR AND GAS INSTITUTE:

1. Eye protection **must** be worn at all times when operating power tools.
2. Ear protection **must** be worn at all times when operating power tools.
3. A retainer should be installed on a percussion tool which, without such a retainer, can eject the chisel or rivet set, punch or similar equipment, when the tool is operated off a work surface. **NEVER OPERATE TOOL WITHOUT A RETAINER OR WHEEL GUARD.**
4. If a Quick Disconnect coupling is used on a percussion tool, it should be separated from the tool with a whip hose.
5. A percussion tool should not be operated unless the chisel, rivet set, scaling tool, or other is in position in the tool and in contact with the work place. Tools should be used in such a manner that ejection of an accessory **will not** endanger adjacent personnel.
6. When percussion tools are not in use, the dies and accessories should be removed unless they are retained in a positive manner.

PROPER OPERATION AND MAINTENANCE

Daily before using, before putting a new or old tool into service and after eight hours of use, pour about one tablespoon of HONSA Bio-Green Air Tool Lubricant 10WT into air inlet, connect air hose and operate tool to allow oil to be carried throughout the interior.

Never operate the tool without a chisel, rivet set, or plunger in the set sleeve and without holding the tool against the work surface. This precaution avoids damage caused by the piston striking the cylinder/barrel retaining wall. When a rivet set, chisel, or plunger is in the set sleeve, the end protrudes beyond the retaining wall so that the piston never strikes the retaining wall, resulting a freezing piston in the cylinder/barrel.

1. Keep tool properly lubricated with HONSA Bio-Green Air Tool Lubricant 10WT.
2. Provide 90 PSIG (6.2 bar) of clean, dry air **AT THE TOOL**.
3. Set up and maintain an inspection and repair program, regularly scheduled at intervals, governed by the degree of use to which the tool is subjected.
4. Blow out any dust and debris from inside hose before connecting it to tool.
5. Ensure that the cylinder/barrel is completely tight in the handle assembly.
6. Replacement of worn minor parts will avoid more extensive repairs and maintain the tool at its highest efficiency.



WARRANTY

Honsa Tools warrants this tool to be free of defects in materials and original workmanship for **1 year from date of purchase. The obligation assumed under this guarantee is limited to the replacing of any part or parts which prove to our satisfaction, under examination, to have been defective. This guarantee does not cover damage caused by misuse or normal wear, dirt or debris.**

Honsa Tools makes no other warranty, and implied warranties for fitness for a particular use or purpose are hereby disclaimed. Honsa Tools' liability is limited to the purchase price of the tool and Honsa tools shall not be liable for consequential, indirect or special damages of any nature arising from the sale or use of Honsa tools.

The warranty shall not apply to any tool that has been subjected to: misuse, accident, negligence or modification; or in which parts not made and supplied by Honsa Tools have been used, altered or repaired by other than Honsa Tools personnel or authorized repair/maintenance companies, or in the determination of Honsa Tools, any non intended use affecting its' operation.

Factory Service

Any tool being returned for service must be pre-approved and a return authorization number must be issued for each tool by approved Honsa Tools personnel.

All Honsa Tools must be sent prepaid to:

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