



**16605867**  
Edition 2  
May 2014

## **Air Percussive Hammer**

**772**

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# **Maintenance Information**



**Save These Instructions**

**IR** *Ingersoll Rand*<sup>®</sup>

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## Product Safety Information

 **WARNING**

- **Failure to observe the following warnings, and to avoid these potentially hazardous situations, could result in death or serious injury.**
- **Read and understand this and all other supplied manuals before installing, operating, repairing, maintaining, changing accessories on, or working near this product.**
- **Always wear eye protection when operating or performing maintenance on this tool. The grade of protection required should be assessed for each use and may include impact-resistant glasses with side shields, goggles, or a full face shield over those glasses.**
- **Always turn off the air supply, bleed the air pressure and disconnect the air supply hose when not in use, before installing, removing or adjusting any accessory on this tool, or before performing any maintenance on this tool or any accessory.**

**Note:** When reading the instructions, refer to exploded diagrams in parts Information Manuals when applicable (see under Related Documentation for form numbers).

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### Lubrication

Each time a Model 772 Air Hammer is disassembled for maintenance, repair or replacement of parts, lubricate the tool as follows:

Inject approximately 3 cc of oil into the air inlet and operate the tool for 5 seconds to coat the internal parts with oil.

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### Disassembly

#### General Instructions

1. Do not disassemble the tool any further than necessary to replace or repair damaged parts.
2. Whenever grasping a tool or part in a vise, always use leather-covered or copper-covered vise jaws to protect the surface of the part and help prevent distortion. This is particularly true of threaded members and housings.
3. Do not remove any part which is a press fit in or on a subassembly unless the removal of that part is necessary for repairs or replacement.
4. Do not disassemble the Air Hammer unless you have a complete set of new gaskets and O-rings for replacement.

#### Disassembly of the Air Hammer

1. Remove the tool Retainer (16).
2. Slide the Exhaust Deflector (13) off the Barrel (15).
3. Clamp the flats of the Barrel in leather-covered or copper-covered vise jaws with the Offset Handle Assembly (1) upward.

### Assembly

#### General Instructions

1. Whenever grasping a tool or part in a vise, always use leather-covered or copper-covered vise jaws. Take extra care with threaded parts and housings.
2. Always clean every part and wipe every part with a thin film of oil before installation.
3. Apply a film of O-ring lubricant to all O-rings before final assembly.

#### Assembly of the Throttle Mechanism

1. If required, replace the Throttle Seal Bushing Seal (6) and the Throttle Valve Face (3) onto the Throttle Valve Bushing Assembly (5).
2. Press the Throttle Valve (2) into the Throttle Valve Button (4).
3. Clamp the Offset Handle Assembly (1) of the Air Hammer in leather-covered or copper-covered vise jaws with the opening upward.
4. Place the large end of the Throttle Valve Spring (7) into the Offset Handle Assembly. Screw the Valve Bushing Throttle Valve into the Handle and tighten to 30 ft-lb (40 Nm) minimum.

4. Carefully unscrew the Handle.
5. Remove the Valve Cap (10), Valve (11), Valve Spacer (9), Valve Seat (8), two Dowel Pins (12), and the Piston (14).

#### Disassembly of the Throttle Mechanism

1. Unscrew the Throttle Valve Bushing Assembly and withdraw the throttle mechanism. Remove the Throttle Valve Spring (7).
2. Press the Throttle Valve (2) from the Throttle Valve Button (4). Remove the Throttle Valve Bushing Assembly from the Throttle Valve.
3. If required, remove the Throttle Valve Face (3) and the Throttle Valve Bushing Seal (6).

#### Assembly of the Air Hammer

1. Clamp the Barrel (15) in leather-covered or copper-covered vise jaws with the Handle end up.
2. Place the Piston (14) into the Barrel.
3. Place the Dowel Pins (12) into the dowel pin holes in the Barrel.
4. With the Dowel Pins going through the dowel pin holes in the Valve Seat (8) and Valve Spacer (9), place the Seat and Spacer onto the Barrel.
5. Place the Valve (11) on the Valve Spacer.
6. With the Dowel Pins going through the dowel pin holes in the Valve Cap (10), place the Cap on the Barrel.
7. Screw the Offset Handle Assembly (1) onto the Barrel tighten to 120 ft-lb (162 Nm) torque.

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## Troubleshooting Guide

<b>Trouble</b>	<b>Probable Cause</b>	<b>Solution</b>
Sluggish operation	Dirt or oil gum accumulation on internal parts.	In a well ventilated area, pour 3 cc of a clean, suitable, cleaning solution into the air inlet and operate for 30 seconds. After flushing, lubricate with the recommended oil.
Loss of power	Worn Valve	Replace the Valve.
Loss of efficiency	Badly worn Piston or accessory	Replace worn parts.

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## Related Documentation

For additional information refer to:

Product Safety Information Manual 04581450.

Product Information Manual 03525763.

Parts Information Manual 16605859.

Manuals can be downloaded from [ingersollrandproducts.com](http://ingersollrandproducts.com)

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