Klutch Klutch 1/2in. Air Impact Wrench

Klutch 1/2-inch Drive Air Impact Wrench Instruction Manual

Model: Klutch 3131882

1. Introduction

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Klutch 1/2-inch Drive Air Impact Wrench. Please read and understand all instructions before using the tool. Proper use and maintenance will ensure optimal performance and extend the life of your impact wrench.



Figure 1: Klutch 1/2-inch Drive Air Impact Wrench, front view.

2. Safety Information

Always observe basic safety precautions to reduce the risk of personal injury and damage to the tool. This tool is designed for professional use and requires careful handling.

General Safety Warnings

- **Wear Eye Protection:** Always wear ANSI-approved safety goggles or safety glasses with side shields when operating this tool.
- **Wear Hearing Protection:** Prolonged exposure to noise from air tools can cause hearing damage.
- **Wear Hand Protection:** Use appropriate gloves to protect hands from vibration and potential pinch points.
- **Maintain a Safe Work Area:** Keep the work area clean, well-lit, and free of obstructions. Do not operate in explosive atmospheres.
- **Secure Workpiece:** Always secure the workpiece with clamps or a vise to prevent movement during

operation.

- **Disconnect Air Supply:** Disconnect the air supply before changing accessories, performing maintenance, or when the tool is not in use.
- **Use Correct Air Pressure:** Do not exceed the maximum recommended air pressure for the tool.
- **Inspect Tool Before Use:** Check for damaged parts, loose fasteners, or any condition that may affect safe operation. Do not use a damaged tool.
- **Avoid Accidental Starting:** Ensure the trigger is in the OFF position before connecting to the air supply.
- **Keep Children Away:** Do not allow children or untrained persons to operate this tool.

3. Product Features

The Klutch 1/2-inch Drive Air Impact Wrench is engineered for demanding tasks, offering robust performance and user comfort.

- Produces up to 980 ft.-lbs. maximum torque in reverse.
- 950 ft.-lbs. maximum forward torque.
- 1,300 ft.-lbs. breakaway torque for stubborn fasteners.
- 8,000 RPM free speed for rapid operation.
- 1,250 IPM (Impacts Per Minute) in impact mode.
- Twin hammer mechanism for hard-hitting impacts.
- 1/2-inch square drive for common sockets.
- Lightweight, durable composite housing for operator comfort.
- One-handed forward/reverse switch for easy operation.
- Handle exhaust for reduced noise and vibration.
- Low noise level of 92dB.
- Requires 4 CFM air consumption.
- Equipped with a 1/4-inch air inlet.
- Minimum hose size of 3/8-inch.

4. Components

The Klutch 1/2-inch Drive Air Impact Wrench package includes:

- Klutch 1/2-inch Air Impact Wrench (1 unit)

Additional accessories such as air hoses, fittings, and sockets are sold separately.

5. Setup

Air Supply Requirements

Ensure your air compressor and air supply system meet the following specifications for optimal performance:

- **Air Pressure:** 90 PSI (6.2 bar) maximum.
- **Air Consumption:** 4 CFM (Cubic Feet per Minute) at 90 PSI.
- **Minimum Hose Size:** 3/8-inch inner diameter.
- **Air Inlet:** 1/4-inch NPT.

It is recommended to use an air filter/regulator/lubricator (FRL) unit in your air line to ensure clean, regulated, and lubricated air supply, which prolongs tool life.

Connecting to Air Supply

1. Ensure the air compressor is turned off and the air tank is drained.
2. Apply thread sealant tape to the 1/4-inch NPT air inlet fitting on the tool.
3. Attach a quick-connect plug (not included) to the air inlet fitting.
4. Connect the air hose (minimum 3/8-inch ID) from your FRL unit (if used) or compressor to the quick-connect plug.
5. Turn on the air compressor and adjust the regulator to 90 PSI.
6. Check all connections for air leaks.

Initial Lubrication

Before first use, and before each subsequent use, add 5-10 drops of air tool oil into the air inlet of the tool. This lubricates the internal components and ensures smooth operation.

6. Operation

Familiarize yourself with the tool's controls before beginning work.


KLUTCH
ITEM# 47910
1/2" AIR IMPACT
90 PSI MAX.
KLUTCH

Figure 2: Rear view of the impact wrench showing the forward/reverse selector and power adjustment.

Forward/Reverse and Power Adjustment

- The tool features a one-handed forward/reverse switch, typically located near the trigger.
- To select **Forward** (tightening), push the switch to the appropriate position (often marked 'F' or with an arrow pointing clockwise).
- To select **Reverse** (loosening), push the switch to the opposite position (often marked 'R' or with an arrow pointing counter-clockwise). This setting provides the maximum 980 ft.-lbs. of torque.
- Some models may include a power adjustment dial, usually integrated with the forward/reverse switch, allowing you to select different power levels for tightening. Adjust as needed for the specific application.

Using the Impact Wrench

1. Select the appropriate impact socket for the fastener. Ensure the socket is in good condition and designed for impact use.
2. Attach the socket firmly onto the 1/2-inch square drive anvil.
3. Place the socket onto the fastener, ensuring it is fully engaged.
4. Squeeze the trigger to operate the tool. The tool will deliver impacts to tighten or loosen the fastener.
5. For tightening, avoid over-tightening. Always use a torque wrench to achieve final specified torque values, as impact wrenches are designed for rapid fastening/unfastening, not precise torque application.
6. Release the trigger to stop the tool.



Figure 3: Klutch 1/2-inch Drive Air Impact Wrench being used to loosen a bolt.

7. Maintenance

Regular maintenance is crucial for the longevity and performance of your air impact wrench.

Daily Maintenance

- **Lubrication:** Add 5-10 drops of air tool oil into the air inlet before each use. If using an in-line lubricator, ensure it is filled and properly adjusted.
- **Drain Air Tank:** Drain moisture from your air compressor's tank daily to prevent rust and contamination of the air supply.
- **Inspect Air Filter:** Check and clean or replace the air filter in your FRL unit as needed.

General Maintenance

- **Cleaning:** Keep the tool clean and free of debris. Wipe down the housing with a clean cloth. Do not use harsh solvents.
- **Inspect Connections:** Periodically check all air hose connections and fittings for leaks or damage.

- **Anvil Inspection:** Inspect the square drive anvil for wear or damage. Replace if necessary.
- **Storage:** When not in use, disconnect the air supply, add a few drops of air tool oil, and store the tool in a clean, dry place away from extreme temperatures.

8. Troubleshooting

Refer to the following table for common issues and their potential solutions.

Problem	Possible Cause	Solution
Tool does not operate or operates weakly.	Low air pressure. Insufficient air supply (CFM). Air leaks. Lack of lubrication. Obstructed air inlet.	Increase air pressure to 90 PSI. Use a compressor with adequate CFM output; check hose size. Check all connections for leaks and tighten. Add air tool oil. Clean air inlet screen.
Excessive vibration.	Worn internal parts. Damaged socket.	Contact qualified service personnel. Replace damaged socket.
Air leaks from tool body.	Loose fasteners. Damaged O-rings or seals.	Check and tighten all external fasteners. Contact qualified service personnel for seal replacement.
Tool heats up quickly.	Lack of lubrication. Overuse.	Add air tool oil. Allow tool to cool down between heavy uses.

9. Specifications

Detailed technical specifications for the Klutch 1/2-inch Drive Air Impact Wrench.

Specification	Value
Model Number	3131882
Drive Size	1/2 inch Square
Power Source	Air Powered
Maximum Reverse Torque	980 ft.-lbs.
Maximum Forward Torque	950 ft.-lbs.
Breakaway Torque	1,300 ft.-lbs.
Free Speed	8,000 RPM
Impacts Per Minute (IPM)	1,250
Air Consumption	4 CFM
Air Inlet Size	1/4 inch NPT
Minimum Hose Size	3/8 inch ID

Specification	Value
Noise Level	92 dB
Housing Material	Composite / Aluminum
Item Weight	4.86 pounds
Package Dimensions	8.7 x 8.1 x 3.1 inches

10. Warranty and Support

For warranty information, technical support, or to order replacement parts, please refer to the official Klutch website or contact their customer service department. Keep your purchase receipt as proof of purchase for any warranty claims.

For further assistance, visit the Klutch Store on Amazon.

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