EVTSCAN KP-810PN

EVTSCAN KP-810PN Air Screwdriver Instruction Manual

Model: KP-810PN

1. Introduction and Safety Information

This manual provides essential information for the safe and effective operation, setup, maintenance, and troubleshooting of your EVTSCAN KP-810PN Air Screwdriver. Please read this manual thoroughly before using the tool and retain it for future reference.

General Safety Warnings

- Always wear appropriate personal protective equipment, including eye protection, hearing protection, and gloves, when operating the tool.
- Ensure the air supply is disconnected before performing any adjustments, changing accessories, or servicing the tool.
- Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- Maintain a firm grip on the tool during operation.
- Use only clean, dry, regulated compressed air at the specified working pressure.
- Inspect the tool for damage before each use. Do not use if damaged.

2. Product Overview

The EVTSCAN KP-810PN is a powerful pneumatic air screwdriver designed for efficient fastening and unfastening tasks. It features a compact design, strong torque, and an alloy steel construction for durability.

Image 2.1: The EVTSCAN KP-810PN Air Screwdriver, highlighting its compact and portable design, strong torque, and alloy shell.

Key Features

- **Safety Switch:** Designed for convenient one-handed operation with an easy and safe start mechanism.
- **Strong Torsion:** Utilizes a double-hammer strike structure for powerful and efficient work.
- **Easy to Use:** Features a seesaw CW (Clockwise) and CCW (Counter-Clockwise) switch for directional control and torsion adjustment.
- **Energy Saving:** Operates on compressed air, offering an energy-efficient and environmentally conscious solution.
- **6.35mm Self-Locking Collet:** Standard 1/4 inch nozzle design ensures universal compatibility with 6.35mm batch heads, providing tight clamping to prevent bits from falling off.

Image 2.2: Close-up view of the 6.35mm self-locking collet, designed for secure bit retention.

3. Specifications

The following table details the technical specifications for the EVTSCAN KP-810PN Air Screwdriver:

Specification	Value
Model	KP-810PN
Material	Alloy Steel
Working Pressure	6.2 kg/cm² (90 PSI)
Inlet Connector	6.35mm (1/4 inch)
No-Load Speed	5000 RPM
Maximum Torsion	70 N-m (51.6 ft-lbs)
Bolt Capacity	6 ~ 10mm (0.2 ~ 0.4 inch)

Specification	Value
Length	Approx. 165mm (6.5 inches)
Width	49mm (1.9 inches)
Height	200mm (7.9 inches)
Item Weight	1.37 kg (3.01 lbs)

Image 3.1: Diagram illustrating the dimensions of the KP-810PN Air Screwdriver.

4. Setup

4.1 Connecting to Air Supply

1. Ensure your air compressor is capable of providing a stable working pressure of 6.2 kg/cm² (90 PSI).
2. Attach an air hose (not included) to the 6.35mm (1/4 inch) inlet connector at the base of the screwdriver handle. Ensure a secure, leak-free connection.
3. It is recommended to use an in-line air filter/lubricator to ensure clean, lubricated air supply, which prolongs tool life.

4.2 Installing Screwdriver Bits

1. Ensure the air supply is disconnected from the tool.
2. Pull back the self-locking collet sleeve at the front of the tool.
3. Insert a standard 6.35mm (1/4 inch) hex screwdriver bit into the collet.
4. Release the collet sleeve. The bit should be securely held in place. Gently pull on the bit to confirm it is locked.

Image 4.1: Illustration of how to insert a screwdriver bit into the self-locking collet.

5. Operating Instructions

5.1 Activating the Tool

1. Connect the air supply to the tool.
2. To start the tool, press the safety switch located on the handle. The tool will begin to rotate.
3. Release the safety switch to stop the tool.

5.2 Selecting Rotation Direction (CW/CCW)

The tool features a seesaw switch for selecting clockwise (CW) or counter-clockwise (CCW) rotation. This allows for both fastening and unfastening applications.

- Push the seesaw switch to the 'F' position for forward (clockwise) rotation, typically used for fastening screws.
- Push the seesaw switch to the 'R' position for reverse (counter-clockwise) rotation, typically used for unfastening screws.

5.3 Torsion Adjustment

The tool allows for torsion adjustment to suit different applications and materials. Refer to the tool's body for

the specific adjustment mechanism, usually a rotating collar near the collet. Rotate the collar to increase or decrease the output torque as required.

5.4 General Operation

1. Select the appropriate screwdriver bit for the fastener.
2. Set the desired rotation direction (CW for fastening, CCW for unfastening).
3. Adjust the torsion setting if necessary.
4. Position the bit onto the fastener head.
5. Press the safety switch to start the tool and apply steady, even pressure.
6. Release the safety switch once the fastener is secured or removed.

Image 5.1: The air screwdriver being used to drive a screw into a wooden surface.

Image 5.2: Examples of wide applications for the air screwdriver, such as drilling, descaling, stirring, polishing, and grinding.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your air screwdriver.

6.1 Daily Maintenance

- **Disconnect Air Supply:** Always disconnect the air supply before any maintenance.
- **Clean the Tool:** Wipe down the tool with a clean, dry cloth to remove dust and debris.
- **Lubrication:** If an in-line lubricator is not used, apply a few drops of pneumatic tool oil into the air inlet before and after each use.
- **Inspect Air Hose:** Check the air hose for any signs of wear, cuts, or leaks. Replace if damaged.

6.2 Periodic Maintenance

- **Air Filter:** Regularly check and clean or replace the air filter in your air supply system to prevent contaminants from entering the tool.
- **Collet Inspection:** Inspect the self-locking collet for wear or damage. Replace if it no longer securely holds bits.
- **General Inspection:** Periodically check all screws and fasteners on the tool for tightness.

7. Troubleshooting

This section addresses common issues you might encounter with your air screwdriver.

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
Tool does not start or has low power.	Insufficient air pressure or volume. Air leaks in the system. Clogged air filter. Lack of lubrication.	Check air compressor settings and hose connections. Inspect air lines and fittings for leaks. Clean or replace air filter. Lubricate the tool as per maintenance instructions.
Bit not holding securely in collet.	Collet sleeve not fully engaged. Worn or damaged collet.	Ensure the collet sleeve is fully released after inserting the bit. Inspect the collet for wear; replace if necessary.
Excessive air leakage from tool.	Loose fittings. Damaged O-rings or seals.	Tighten all air fittings. Contact support for seal replacement if internal leakage is suspected.
Tool runs in only one direction.	Seesaw switch stuck or damaged.	Ensure the seesaw switch moves freely. If stuck, try to free it gently. If damaged, contact support.

8. Warranty Information

EVTSCAN products are manufactured to high-quality standards. For specific warranty details, including coverage period and terms, please refer to the warranty card included with your purchase or the retailer's policy at the time of purchase. Keep your proof of purchase for any warranty claims.

9. Support

Should you require technical assistance, spare parts, or have questions not covered in this manual, please contact your retailer or the EVTSCAN customer support team. Please have your model number (KP-810PN) and purchase information ready when contacting support.

For more information about EVTSCAN products, you may visit the official EVTSCAN store online:EVTSCAN Store