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TUXING TXED Series Spart Parts

TUXING TXED Series High-Pressure Cylinder Head

INSTRUCTION MANUAL

Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of your TUXING TXED Series High-Pressure Cylinder Head. This component is designed for use with TUXING 4500PSI PCP air compressors, ensuring optimal performance and longevity. Please read this manual thoroughly before attempting any installation or maintenance procedures.

Product Overview

The TUXING TXED Series High-Pressure Cylinder Head is a critical replacement or maintenance component for your PCP air compressor. It is engineered to withstand pressures up to 4500 PSI (300 Bars) and features a robust design with integrated cooling fins for efficient heat dissipation. The assembly includes clearly marked water inlet and outlet ports with brass fittings to facilitate connection to the compressor's cooling system. This kit is designed to maintain the original performance and operational reliability of your TUXING TXED series air compressor.



**Figure 1:** TUXING TXED Series High-Pressure Cylinder Head with dimensions. The overall height is 91.5mm, the main body diameter is 78mm, and the top section diameter is 49mm. The water outlet port is clearly marked, as is the water inlet port, both featuring brass fittings. The central high-pressure output connection measures 22.5mm.

## Safety Information

**WARNING:** High-pressure air compressors can be dangerous if not handled correctly. Always follow safety guidelines to prevent injury or equipment damage.

- Ensure the air compressor is completely depressurized and disconnected from its power source before beginning any installation or maintenance.
- Wear appropriate personal protective equipment (PPE), including eye protection and gloves, during installation and maintenance.
- All work should be performed by qualified personnel or under the supervision of an experienced technician.
- Do not modify the cylinder head or any other compressor components.
- Verify all connections are secure and leak-free before operating the compressor.

## Installation

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Follow these steps for proper installation of the high-pressure cylinder head:

1. **Preparation:** Ensure the air compressor is turned off, unplugged, and completely depressurized. Allow the unit to cool down if it has been recently operated.
2. **Remove Old Component:** Carefully disconnect any cooling lines and high-pressure air lines attached to the existing cylinder head. Remove the mounting bolts securing the old cylinder head to the compressor block.
3. **Clean Surfaces:** Thoroughly clean the mating surfaces on the compressor block to ensure a proper seal with the new cylinder head. Remove any old gasket material or debris.
4. **Install New Cylinder Head:** Place the new TUXING TXED Series High-Pressure Cylinder Head onto the compressor block. Ensure proper alignment.
5. **Secure Mounting Bolts:** Install and hand-tighten the mounting bolts. Then, tighten them evenly in a cross-pattern to the manufacturer's specified torque settings (refer to your compressor's main manual for torque specifications).
6. **Connect Cooling Lines:** Reconnect the water cooling lines to the designated water inlet and water outlet ports on the cylinder head (refer to Figure 1). Ensure these connections are tight to prevent leaks.
7. **Connect High-Pressure Line:** Reconnect the high-pressure air output line to the central connection point on the cylinder head.
8. **Leak Test:** Before full operation, perform a leak test. Slowly pressurize the system and check all connections for air or water leaks using a soapy water solution. Address any leaks immediately.

## Operation

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The high-pressure cylinder head functions as an integral part of your TUXING TXED series PCP air compressor's compression system. Once properly installed, it works in conjunction with the compressor's motor and piston assembly to generate and maintain high air pressure. The integrated cooling system, connected via the water inlet and outlet ports, is crucial for dissipating heat generated during compression, ensuring stable and efficient operation. Always operate the compressor according to its primary instruction manual.

## Maintenance

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Regular maintenance of the cylinder head ensures the longevity and efficiency of your air compressor.

- **Visual Inspection:** Periodically inspect the cylinder head for any signs of wear, cracks, corrosion, or damage. Check for loose connections or fittings.
- **Cooling Fins:** Ensure the cooling fins on the cylinder block are free from dust, dirt, and debris. Clean them regularly to maintain optimal heat dissipation.
- **Leak Checks:** Regularly check all air and water connections around the cylinder head for leaks, especially after extended periods of use.
- **Seal Replacement:** Over time, internal seals and O-rings may degrade. If you notice a decrease in pressure or persistent leaks, these components may need inspection and replacement. Refer to TUXING service guidelines for specific part numbers and procedures.

## Troubleshooting

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If you encounter issues related to the cylinder head, consider the following:

- **Reduced Pressure Output:**
  - Check for air leaks around the cylinder head connections.

- Inspect internal seals and the piston rod assembly for wear or damage.

• **Overheating:**

- Ensure the cooling water system is functioning correctly and there are no blockages in the water lines or ports.
- Clean any debris from the cooling fins.

• **Water Leaks:**

- Tighten all water line connections to the inlet and outlet ports.
- Inspect the brass fittings and the cylinder head body for cracks or damage.

For issues not resolved by these steps, contact TUXING customer support.

Specifications

| Feature                    | Detail                            |
|----------------------------|-----------------------------------|
| Brand                      | TUXING                            |
| Model Name                 | TXED Series Spart Parts           |
| Maximum Operating Pressure | 4500 PSI (300 Bars)               |
| Included Components        | High-pressure Cylinder Head       |
| Item Weight                | 6.61 Pounds                       |
| Package Dimensions         | 3.94 x 1.97 x 1.97 inches         |
| Color                      | Black                             |
| UPC                        | 770642672209                      |
| Manufacturer               | Xiamen Subang Technology Co., Ltd |

Warranty and Support

For warranty information, technical support, or to inquire about replacement parts, please contact TUXING customer service. Refer to your original purchase documentation or the official TUXING website for contact details and specific warranty terms applicable to your product.

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