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PORTER-CABLE 5140070-05

PORTER-CABLE 5140070-05 Drain Cock Tank Drain CMB15 Instruction Manual

Model: 5140070-05

1. INTRODUCTION

The **PORTER-CABLE 5140070-05 Drain Cock** is a genuine replacement part designed for use with various air compressor models, including the CMB15. This component is crucial for the proper maintenance of your air compressor, allowing for the safe and efficient draining of condensation and moisture that accumulates in the air tank. Regular draining prevents internal tank corrosion, extends the life of your compressor, and ensures optimal performance.

Please read this manual carefully before installation and operation to ensure safe and correct usage. Keep these instructions for future reference.



Image 1.1: The Porter Cable 5140070-05 Drain Cock. This brass component features a threaded end for secure attachment to the air compressor tank and a knurled knob for manual opening and closing to facilitate moisture drainage.

2. SETUP AND INSTALLATION

Proper installation of the drain cock is essential for safety and functionality. Follow these steps carefully:

1. **Safety First:** Before beginning any work, ensure the air compressor is turned **OFF** and completely unplugged from its power source. Depressurize the air tank by opening any existing drain valves or safety valves until all air has escaped.
2. **Locate and Prepare:** Identify the location of the existing drain cock on your air compressor tank. Place a suitable container beneath it to catch any residual water or debris.
3. **Remove Old Drain Cock:** Using an appropriate wrench, carefully unscrew and remove the old drain cock. Be prepared for a small amount of water to drain out.
4. **Clean Threads:** Thoroughly clean the threads on the air tank where the drain cock will be installed. Remove any old sealant, rust, or debris to ensure a proper seal.
5. **Apply Thread Sealant:** Apply a suitable thread sealant, such as PTFE (Teflon) tape or pipe thread compound, to the threads of the new 5140070-05 Drain Cock. Wrap the tape clockwise around the threads for 3-4 turns, ensuring it is snug.
6. **Install New Drain Cock:** Hand-tighten the new drain cock into the tank opening. Once hand-tight, use a wrench to tighten it an additional 1/2 to 1 full turn. Do not overtighten, as this can damage the threads or the drain cock.
7. **Check for Leaks:** Reconnect the compressor to power and allow it to build pressure. Apply a soapy water solution to the newly installed drain cock connection. If bubbles appear, there is a leak. Depressurize the tank and re-tighten the drain cock as needed.

3. OPERATING INSTRUCTIONS (DRAINING CONDENSATION)

Regularly draining condensation from your air compressor tank is vital for its longevity and performance.

1. **Depressurize Compressor:** Ensure the air compressor is turned **OFF** and unplugged. Open any air outlets or use the pressure relief valve to completely depressurize the air tank. The tank pressure gauge should read zero.
2. **Position Container:** Place a suitable container (e.g., a bucket or pan) directly beneath the drain cock to collect the drained water.
3. **Open Drain Cock:** Slowly turn the knurled knob of the drain cock counter-clockwise to open it. Water and possibly some air will begin to drain from the tank.
4. **Drain Completely:** Allow all condensation to drain from the tank. Continue draining until only air escapes.
5. **Close Drain Cock:** Once draining is complete, turn the knurled knob clockwise to securely close the drain cock. Do not overtighten.
6. **Frequency:** It is recommended to drain the air tank daily or after each use, especially in humid environments, to prevent rust and maintain air quality.

4. MAINTENANCE

The 5140070-05 Drain Cock requires minimal maintenance, but regular inspection is recommended.

- **Regular Inspection:** Periodically inspect the drain cock for any signs of wear, damage, or corrosion. Check for air leaks around the threads, which may indicate a need for re-tightening or re-application of thread sealant.
- **Cleaning:** If the drain cock becomes clogged with debris, depressurize the tank, remove the drain cock, and clean it thoroughly. Ensure no foreign objects remain that could impede its function.
- **Replacement:** If the drain cock is damaged, leaking persistently, or difficult to operate, it should be

replaced immediately with a genuine PORTER-CABLE 5140070-05 replacement part.

5. TROUBLESHOOTING

Refer to the following table for common issues and their solutions:

Problem	Possible Cause	Solution
Air or Water Leak	Loose connection, damaged threads, worn O-ring/seal, insufficient thread sealant.	Depressurize tank. Re-tighten drain cock. If leak persists, remove, clean threads, apply new thread sealant (PTFE tape), and re-install. Inspect O-ring for damage and replace if necessary.
Drain Cock Difficult to Open/Close	Corrosion, mineral buildup, internal damage.	Depressurize tank. Remove drain cock and inspect for debris or corrosion. Clean thoroughly. If still stiff or damaged, replace the drain cock.
No Water Draining	Tank is dry, drain cock is clogged, or not fully opened.	Ensure drain cock is fully opened. If no water, the tank may be dry (less common). If suspected clog, depressurize tank, remove drain cock, and clear any obstruction.

6. SPECIFICATIONS

Attribute	Detail
Part Number	5140070-05
Product Type	Drain Cock / Tank Drain
Brand	PORTER-CABLE
Material	Brass (typical for this component)
Item Package Quantity	1
ASIN	B010JS9170
Date First Available	November 12, 2015

7. WARRANTY AND SUPPORT

For information regarding the warranty of your PORTER-CABLE 5140070-05 Drain Cock, please refer to the warranty documentation provided with your original air compressor or visit the official PORTER-CABLE website.

If you require technical assistance, replacement parts, or have questions not covered in this manual, please contact PORTER-CABLE customer support directly.

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