



5140228-52

Black & Decker Air Compressor Manifold Replacement

Model: 5140228-52

INTRODUCTION

This manual provides instructions for the installation and maintenance of the OEM 5140228-52 replacement manifold for Black & Decker air compressors. This part is compatible with various models, including D55152, D55155, D55250, D55154, and EM810-4M. Please read these instructions carefully before proceeding with the replacement to ensure safe and correct installation.

SAFETY INFORMATION

Always prioritize safety when working with power tools and pressurized systems. Failure to follow these safety guidelines may result in serious injury or property damage.

- **Disconnect Power:** Before performing any maintenance or installation, ensure the air compressor is unplugged from its power source.
- **Depressurize System:** Completely drain all air pressure from the compressor tank and lines. Open all drain valves and pressure relief valves.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including safety glasses and gloves.
- **Work in a Well-Ventilated Area:** Ensure adequate ventilation if using any solvents or sealants.
- **Consult a Professional:** If you are unsure about any step, consult a qualified technician.

PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package.

- 1 x OEM 5140228-52 Air Compressor Manifold
- *(Additional components, if any, will be listed on the product packaging.)*



Image: The OEM 5140228-52 replacement manifold for Black & Decker air compressors. This image shows the manifold assembly with various ports and connections.

INSTALLATION

This section outlines the steps for replacing the air compressor manifold. Ensure the compressor is completely depressurized and disconnected from power before beginning.

Tools Required:

- Wrenches (appropriate sizes for fittings)
- Screwdriver (if applicable for mounting)
- Thread sealant tape (PTFE tape) or liquid thread sealant
- Safety glasses and gloves

Step-by-Step Procedure:

1. **Prepare the Compressor:** Unplug the compressor from the power outlet. Open the tank drain valve and any other relief valves to completely release all air pressure from the tank and lines.
2. **Locate the Manifold:** Identify the existing manifold on your Black & Decker air compressor. It typically has multiple gauges, valves, and air outlets connected to it.

3. **Disconnect Components:** Carefully disconnect all hoses, gauges, pressure switches, and other components attached to the old manifold. Note their positions for reassembly.
4. **Remove Old Manifold:** Unscrew or unbolt the old manifold from its mounting points on the compressor.
5. **Prepare New Manifold:** Apply thread sealant tape (PTFE tape) or liquid thread sealant to the threads of all fittings (gauges, valves, pressure switch, air outlets) that will be installed into the new manifold. Ensure a proper seal to prevent air leaks.
6. **Install New Manifold:** Mount the new 5140228-52 manifold onto the compressor using the original hardware. Ensure it is securely fastened.
7. **Reconnect Components:** Reattach all hoses, gauges, pressure switches, and other components to their corresponding ports on the new manifold. Tighten all connections firmly but avoid over-tightening, which can strip threads or damage components.
8. **Check for Leaks:** Close the tank drain valve. Plug in the compressor and allow it to build pressure. Once it reaches its cut-off pressure, unplug it. Apply a soapy water solution to all new connections. Bubbles indicate an air leak. Tighten any leaking connections until bubbles stop.
9. **Test Operation:** Once all leaks are resolved, the compressor is ready for normal operation.

OPERATION

The manifold itself does not have operational controls; it serves as a distribution and control hub for the air compressor's output. After successful installation, ensure that all gauges read correctly and that air flows as expected through the outlets. Monitor for any unusual noises or pressure fluctuations during initial operation.

MAINTENANCE

Regular inspection of the manifold and its connections can help prevent future issues.

- **Periodic Leak Checks:** Periodically check all connections on the manifold for air leaks using soapy water, especially if you notice a drop in compressor efficiency or increased run time.
- **Cleanliness:** Keep the manifold free from dirt, dust, and debris to ensure proper function of gauges and valves.
- **Component Inspection:** Inspect gauges, valves, and pressure switches connected to the manifold for signs of wear or damage. Replace any faulty components promptly.

TROUBLESHOOTING

If you encounter issues after replacing the manifold, consider the following common problems and solutions:

- **Air Leaks:**
 - **Symptom:** Hissing sound, compressor runs frequently, pressure drops quickly.
 - **Solution:** Re-check all connections with soapy water. Tighten fittings. If a fitting continues to leak, disassemble, reapply thread sealant, and reassemble.
- **Incorrect Pressure Readings:**
 - **Symptom:** Gauges show inconsistent or incorrect pressure.
 - **Solution:** Ensure gauges are properly seated and sealed. If the issue persists, the gauge itself may be faulty and require replacement.
- **Compressor Not Building Pressure:**

- **Symptom:** Compressor runs but tank pressure does not increase or increases very slowly.
- **Solution:** Check for significant leaks at the manifold or other components. Ensure the pressure switch is correctly connected and functioning.

SPECIFICATIONS

Model Number	5140228-52
Compatible Models	D55152, D55155, D55250, D55154, EM810-4M
Product Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	0.16 ounces
Manufacturer	Black & Decker (OEM part)

WARRANTY INFORMATION

Warranty terms for this replacement part may vary depending on the seller and purchase date. Please refer to your purchase documentation or contact the seller directly for specific warranty details.

CUSTOMER SUPPORT

For further assistance or technical support, please contact the retailer or the manufacturer of your Black & Decker air compressor. When contacting support, please have your compressor model number and the part number (5140228-52) available.