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› [TORQUE 20ft 3-in-1 ABS & Power Air Line Hose Kit Instruction Manual \(Model TR813220\)](#)

Torque TR813220

TORQUE 20ft 3-in-1 ABS & Power Air Line Hose Kit Instruction Manual

Model: TR813220

1. INTRODUCTION

This manual provides detailed instructions for the proper installation, operation, and maintenance of your TORQUE 20ft 3-in-1 ABS & Power Air Line Hose Kit. This kit is designed to provide reliable air and electrical connections between a semi-truck and its trailer, ensuring optimal performance and safety. Please read this manual thoroughly before installation and use.

2. PRODUCT OVERVIEW

The TORQUE 20ft 3-in-1 Air Line Hose Kit integrates two air lines and one 7-way electrical cable into a single, organized unit. This design minimizes tangling and abrasion, enhancing durability and ease of use.

2.1 Components

- Two (2) Black Air Lines (DOT SAE J1402 A 10mm(3/8"))
- One (1) Green ABS Rated 7-Way Electrical Cord (SAE J2394)
- Heavy-duty Spiral Wrap (Black)
- Large Handle Grips for Air Lines
- Brass Fittings on Trailer Leads
- Hanging Clamp for Installation

2.2 Key Features

- **Integrated Design:** All lines are bundled in a heavy-duty spiral wrap for a clean, organized appearance and to prevent snagging, tangling, and abrasion.
- **Durability:** Constructed with materials offering outstanding kink and abrasion resistance. Reinforced, thicker tail profiles prevent tearing.
- **Easy Handling:** Large handle grips facilitate easy coupling and uncoupling of air lines.
- **Secure Connections:** Brass fittings on trailer leads provide robust gladhand connections.
- **Certifications:** Meets SAE J2394 for ABS Cable, DOT SAE J1402 A for Hoses, and SAE J560 for the Plug.



Figure 1: Complete TORQUE 20ft 3-in-1 ABS & Power Air Line Hose Kit, showing the coiled lines, electrical connector, and air line gladhand connectors.

3. SAFETY INFORMATION

- Always ensure the truck and trailer are properly secured and parked on a level surface before attempting any installation or maintenance.
- Release all air pressure from the braking system before disconnecting air lines.
- Wear appropriate personal protective equipment (PPE), including safety glasses and gloves.
- Verify all connections are secure and free from leaks before operating the vehicle.
- Do not modify the product. Use only as intended for semi-truck and trailer air and electrical connections.

4. SETUP AND INSTALLATION

This kit is designed for straightforward installation, optimizing the connection lines between your tractor and trailer.

4.1 Installation Steps

1. **Prepare the Vehicle:** Ensure the truck and trailer are safely parked, and the air brakes are engaged. Turn off the engine and disconnect the battery if working with electrical components.

- 2. Remove Old Lines (if applicable):** Carefully disconnect and remove any existing air lines and electrical cables.
- 3. Connect Air Lines:** Attach the red and blue air lines from the TORQUE kit to the corresponding gladhand connections on the trailer. The large handle grips are designed for easy coupling and uncoupling. Ensure the brass fittings are securely tightened to prevent air leaks.
- 4. Connect Electrical Cable:** Plug the 7-way electrical connector into the trailer's receptacle. Ensure a firm connection.
- 5. Secure the Kit:** Use the included hanging clamp to secure the coiled assembly to the tractor, preventing it from dragging or snagging during turns. The heavy-duty beveled edge spiral wrap keeps all lines in a tangle-free bundle.
- 6. Inspect Connections:** Visually inspect all connections for proper seating and tightness.



Figure 2: Coiled TORQUE 3-in-1 Air Line Hose Kit, illustrating the integrated design and connection points.

5. OPERATING INSTRUCTIONS

Once installed, the TORQUE 3-in-1 Air Line Hose Kit operates as a standard connection system for your semi-truck and trailer. No special operating procedures are required beyond standard vehicle operation.

- Ensure the air lines are properly pressurized before driving.
- Verify all trailer lights and electrical functions are operational after connecting the 7-way cable.
- The integrated design helps prevent lines from snagging or tangling during turns and maneuvers.

6. MAINTENANCE

Regular inspection and maintenance will extend the lifespan of your TORQUE 3-in-1 Air Line Hose Kit.

- **Daily Inspection:** Before each use, visually inspect the entire assembly for any signs of wear, cuts, kinks, or damage to the air lines, electrical cable, or spiral wrap.
- **Check Fittings:** Ensure all brass fittings and electrical connectors are clean, free of corrosion, and securely tightened.
- **Spiral Wrap Integrity:** Check the spiral wrap for any breaks or areas where lines might be exposed. The spoon-cut spiral wrap is designed to prevent damage, but regular checks are recommended.
- **Cleaning:** Clean the lines and connectors periodically with a mild detergent and water. Avoid harsh chemicals that could degrade the materials.
- **Storage:** When not in use, ensure the kit is stored in a manner that prevents kinking or damage.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

7.1 Air Leaks

- **Symptom:** Hissing sound, loss of air pressure.
- **Action:** Check all gladhand connections and brass fittings for tightness. Inspect the air lines for visible damage. Replace damaged components immediately.

7.2 Electrical Malfunctions (e.g., Trailer Lights Not Working)

- **Symptom:** Trailer lights (marker, brake, turn signals) are not functioning.
- **Action:** Ensure the 7-way electrical connector is fully seated and clean. Check the vehicle's fuses.
- **Specific Issue (Trailer Marker Lights):** If trailer marker lights are not working, it may be necessary to install a jumper wire from the trailer lights (brown wire) to the trailer marker lights (black wire) within the male plug going to the trailer. Inspect your old plug for a similar jumper wire configuration and replicate it if present.

7.3 General Wear and Tear

- **Symptom:** Visible damage to the spiral wrap, air lines, or electrical cable.
- **Action:** While the kit is designed for durability, extreme conditions can cause wear. Replace the kit if significant damage is observed to ensure safety and functionality.

8. SPECIFICATIONS

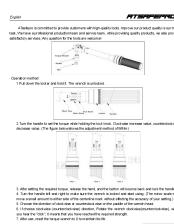
Attribute	Detail
Brand	Torque
Model Number	TR813220
Material	Acrylonitrile Butadiene Styrene (ABS)
Product Dimensions	240"L x 0.38"W (20 feet length)
Item Weight	16.25 pounds
Specific Uses	Semi-truck trailer and tractor air line replacement, Straight tractor-trailer connection line optimization

Attribute	Detail
ABS Cable Certification	SAE J2394 - 4/12-2/10-1/8 (-65 Celsius/-85 Fahrenheit)
Air Hose Certification	DOT SAE J1402 A 10mm(3/8")
Plug Certification	SAE J560
Cross-Reference Numbers	Philips 30-2151, Philips 302151, Tectran 169127, Peterbilt PE13000, Tremec Sloan 451097, OTR6814

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your TORQUE 3-in-1 ABS & Power Air Line Hose Kit, please refer to the product packaging or contact Torque customer service directly. Keep your purchase receipt for warranty claims.

Related Documents - TR813220

	<p>BURNDY Technical Reference: Electrical Connection Principles, Hardware, and Cable Data</p> <p>This BURNDY technical reference provides comprehensive data on electrical connection principles, including creep, surface oxide, and corrosion. It details hardware specifications with recommended tightening torques for steel and aluminum bolts, and UL 486A/UL 486B compliant screws. Extensive cable data tables for copper, aluminum, and ACSR conductors are also included, making it an essential guide for electrical professionals.</p>
	<p>EPAuto 1/2 in. Drive Click Torque Wrench Manual & Specifications (10-150 ft-lb)</p> <p>User manual and specifications for the EPAuto 1/2 inch drive click torque wrench (Model ST-10A-1#PL01), covering torque settings, operation, maintenance, and unit conversions.</p>
	<p>ATsafepro Torque Wrench: Operation and Warranty Guide</p> <p>A comprehensive guide to operating and understanding the warranty for ATSAFEPRO torque wrenches, detailing usage steps, component descriptions, and care instructions for optimal performance and longevity.</p>
	<p>MAXXD Trailers Wheel Torque Requirements and Specifications</p> <p>Detailed guide on MAXXD Trailers wheel torque requirements, including step-by-step procedures, torque specifications by wheel size and fastener type, and torque sequence diagrams for safe wheel installation.</p>

 <p>ANPM automatic bottle cap torque tester</p> <p>Instruction manual of ALIYIQI bottle cap torque tester</p> <p>Table of contents</p> <p>1. Main purpose and scope of application</p> <p>The automatic bottle cap torque tester ANPM is a new state-of-the-art product that replaces the manual bottle cap torque tester. The main purpose of the product is to measure the torque of the bottle cap and to indicate whether the product torque value is in the maximum testing range or not.</p>	<p><u>ALIYIQI ANPM Automatic Bottle Cap Torque Tester - Instruction Manual & Specifications</u></p> <p>Comprehensive instruction manual and specifications for the ALIYIQI ANPM automatic bottle cap torque tester. Learn about its features, operation, testing principles, and maintenance.</p>
 <p>Originalanleitung Satz aus Drehmomentschlüsseln 1/4" und 1/2" mit 3/8" Adapter Artikelnr. 07-0082</p> <p>Original Instructions Set of Torque Spanners 1/4" and 1/2" with 3/8" Adapter Artikelnr. 07-0082</p>	<p><u>Westfalia Torque Wrench Set Instructions</u></p> <p>User manual and operating instructions for the Westfalia Set of Torque Spanners 1/4" and 1/2" with 3/8" Adapter. Includes details on setting torque, operation, maintenance, and disposal.</p>