



Mobile Calibration System

Installation & maintenance instructions



Installation & maintenance instructions for:

- RTT[®] 12K/16K Mobile Calibration System

TABLE OF CONTENTS

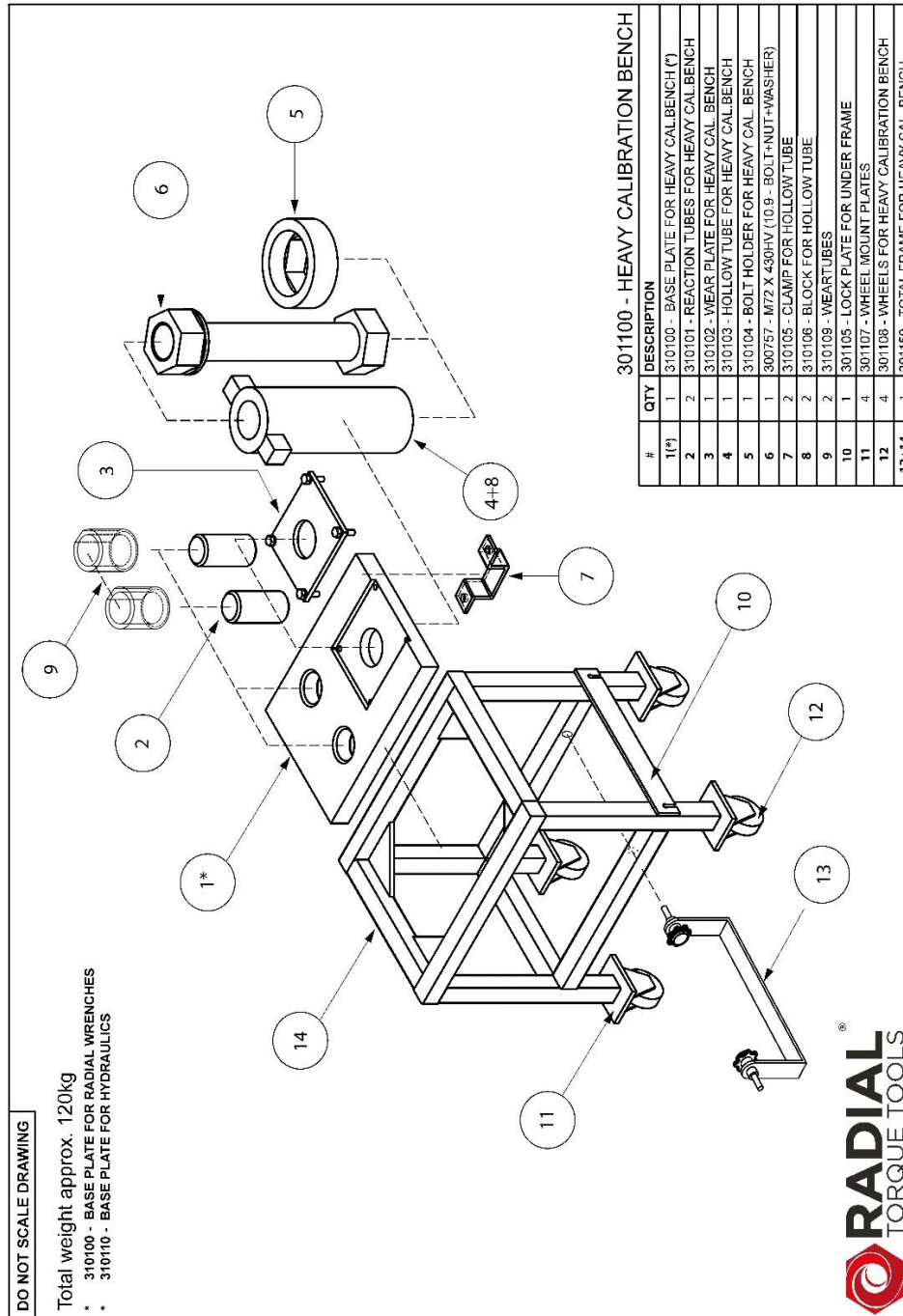
1.	Required Tools and Equipment	3
2.	Exploded View	3
3.	Bolt Installation	4
4.	Bolt Removal	4
5.	RAD Smart Socket™	5
6.	Control Checklist.....	5
6.1.	Before Installation.....	5
6.2.	During Installation	5
6.3.	Before Use	6
6.4.	During Bolt Removal.....	6
6.5.	Maintenance	6
6.6.	Safety	6
7.	Warranty.....	7
7.1.	New tool warranty	7
7.2.	Repaired tool warranty.....	7
7.3.	Exceptions to warranty.....	7
8.	Contact us.....	7

1. REQUIRED TOOLS AND EQUIPMENT

The following tools and equipment are required for the installation, removal, and maintenance of the system:

- Open-end wrenches (sizes 17 and 13).
- Torque wrench (compatible with M72 nut).
- Brushes for applying Molt paste Loctite (PN: 12597).
- Hand pallet truck.
- Personal protective equipment (PPE), including safety shoes, gloves.

2. EXPLODED VIEW



3. BOLT INSTALLATION

1. Tilt plate (2. Exploded View, ref. 13) to a horizontal position.
2. Remove the lock plate (2. Exploded View, ref. 10).
3. Remove the clamp`s (2. Exploded View, ref. 7)
4. Place the bolt (2. Exploded View, ref. 6) on the forks of a hand pallet truck.
5. Slide the hollow tube (2. Exploded View, ref. 4) over the bolt (2. Exploded View, ref. 6). Note: The bolt (2. Exploded View, ref. 6) must fit completely into the hollow tube (2. Exploded View, ref. 4) and the bolt holder (2. Exploded View, ref. 5).
6. Move the hollow tube with the bolt (2. Exploded View, ref. 6) underneath and align it with the hole in the base plate (2. Exploded View, ref. 1).

**Note:**

Ensure the blocks on the hollow tube are aligned with the recesses in the base plate (2. Exploded View, ref. 1).

7. Pump the hand pallet truck up so that the bolt passes through the hole in the base plate (2. Exploded View, ref. 1). Stop when the hollow tube (2. Exploded View, ref. 4) is beneath the base plate (2. Exploded View, ref. 1).
8. Apply Moly paste loctite (PN: 12597) to the threaded end of the bolt (2. Exploded View, ref. 6).
9. Screw the M72 nut onto the bolt (2. Exploded View, ref. 6).
10. Install de clamps' (2. Exploded View, ref. 7)
11. Tilt plate (2. Exploded View, ref. 13) to a vertical position.
12. Reinstall the lock plate (2. Exploded View, ref. 10).

**Usage Warnings:**

- Always ensure that the threaded end of the bolt is greased with Moly paste loctite (PN: 12597).
- Always position the tilt plate (2. Exploded View, ref. 13) horizontally before starting.
- Ensure that the wear tubes (2. Exploded View, ref.9) are in place during torquing.
- After each calibration, reapply Moly paste loctite (PN: 12597) to the bolt.

4. BOLT REMOVAL

1. Ensure the tilt plate (2. Exploded View, ref. 13) is in a vertical position.
2. Loosen the M72 nut slightly using a torque tool.
3. Move the hand pallet truck underneath the bolt and hollow tube and pump it until just beneath the hollow tube.
4. Remove the clamps' (2. Exploded View, ref. 7)
5. Remove the M72 nut completely.
6. Gradually lower the pallet truck to remove the bolt and hollow tube from under the base plate (2. Exploded View, ref. 1).
7. Ensure the hollow tube (2. Exploded View, ref. 4) remains aligned with the bolt to avoid damage.
8. Move the pallet truck with the bolt out from under the frame.
9. Reinstall the lock plate (2. Exploded View, ref. 10).
10. Reinstall the clamp`s (2. Exploded View, ref. 7)
11. Inspect all components:
 - Check the bolt (2. Exploded View, ref. 6), hollow tube (2. Exploded View, ref. 4), and base plate (2. Exploded View, ref. 1) for wear or damage.
 - Clean all components thoroughly to prepare them for future use or storage.

**Safety Notes:**

- Ensure the pallet truck is stable and on a flat surface to avoid movement during the process.
- Use proper lifting techniques when handling heavy components like the bolt and hollow tube.
- Always inspect and clean components before reassembling or storing them.
- After each calibration, reapply Moly paste loctite (PN: 12597) to the bolt.
- Always wear personal protective equipment (PPE), including safety shoes, gloves, and safety glasses.
- Avoid wearing loose clothing that could get caught in moving parts.
- Keep the workspace clear of obstacles and ensure the floor is level and stable.

5. RAD SMART SOCKET™

For instruction on how to use the RAD Smart Socket™, see the user manual delivered with this Mobile Calibration System or go to radialtorque.eu/en/radtorque/downloads.

6. CONTROL CHECKLIST

6.1. Before Installation

- Is the work area clean and free of obstacles?
- Is the hand pallet truck stable and positioned on a flat surface?
- Are all necessary tools (e.g., torque tool, wrench) available?
- Is personal protective equipment (PPE) like gloves, safety shoes in use?
- Is the bolt (2. Exploded View, ref. 6) free from damage or wear?
- Is the hollow tube (2. Exploded View, ref. 4) clean and undamaged?
- Are all necessary parts (e.g., lock plate (10), base plate (2. Exploded View, ref. 1)) present and in good condition?

6.2. During Installation

- Is the tilt plate (2. Exploded View, ref. 13) in a horizontal position?
- Are the hollow tube (2. Exploded View, ref. 4) and bolt (2. Exploded View, ref. 6) correctly aligned with the base plate (2. Exploded View, ref. 1)?
- Is Molt paste loctite (PN: 12597) applied to the threaded end of the bolt?
- Is the M72 nut properly tightened?
- Is the lock plate (2. Exploded View, ref. 10) correctly reinstalled after assembly?

6.3. Before Use

- Is the tilt plate (2. Exploded View, ref. 13) in a vertical position?
- Are the wear tubes (2. Exploded View, ref. 9) in place?
- Are all components clean and free of debris?
- Has the Smart Socket™ been calibrated according to the manual?

6.4. During Bolt Removal

- Is the tilt plate (2. Exploded View, ref. 13) in a horizontal position?
- Is the hand pallet truck correctly positioned beneath the bolt and hollow tube?
- Has the M72 nut been loosened before removal?
- Are the bolt (2. Exploded View, ref. 6) and hollow tube (2. Exploded View, ref. 4) being removed safely without misalignment?
- Have all components been checked for wear, damage, or corrosion?
- Are the removed parts cleaned and prepared for storage?

6.5. Maintenance

- Is Moly paste loctite (PN: 12597) applied to all necessary parts?
- Are all components cleaned and free from debris?
- Are the bolt (2. Exploded View, ref. 6), hollow tube (2. Exploded View, ref. 4), and base plate (2. Exploded View, ref. 1) inspected for damage or wear?
- Are damaged components replaced if necessary?
- Are all components stored in a dry and clean environment?

6.6. Safety

- Are all safety warnings followed during the process?
- Is proper lifting technique used for heavy components?
- Finger pinching warning.

7. WARRANTY

7.1. New tool warranty

1. Radial B.V. guarantees the proper performance of the goods delivered for a period of twelve (12) months after delivery to the final customer. And is limited to fifteen (15) months after the original calibration date.

7.2. Repaired tool warranty

1. Once a tool is beyond its new tool warranty, Radial B.V., for a period of three (3) months from the date of repair, will replace or repair for the original purchaser, free of charge, any part, or parts, found upon examination by Radial B.V., to be defective in material or workmanship or both. If any tool or part is replaced or repaired under the terms and conditions of this warranty, that tool or part will carry the remainder of the warranty from the date of original repair. To qualify for the above mentioned warranties, written notice to Radial B.V. must be given immediately upon discovery of such defect, at which time Radial B.V. will issue an authorization to return the tool. The defective tool must promptly be returned to Radial B.V., all freight charges prepaid. When returning a tool, the reaction arm(s) being used with the tool must also be returned.

7.3. Exceptions to warranty

Customer cannot invoke a warranty if:

1. the defect, wholly or partly, is due to unusual, inappropriate, improper, or careless use of a delivery.
2. the defect, wholly or partly, is due to normal wear and tear or lack of proper maintenance.
3. the defect, wholly or partly, is due to installation, assembly, modification, and/or repair by the customer or by third parties.
4. the delivery is altered, modified, used, or processed.
5. the delivery is transferred to a third party.
6. Radial B.V. has obtained the tool, wholly or partly, from a third party, and Radial B.V. cannot claim compensation under warranty.
7. Radial B.V. in manufacturing of the tool, has used raw materials, and suchlike on the instructions of the customer.
8. the tool has a small deviation in its quality, finishing, size, composition, and suchlike, which is not unusual in the industry or if the defect was technically unavoidable.
9. the customer has not promptly and correctly fulfilled all obligations under the agreement towards Radial B.V..

For an up-to-date version of our warranty see, radialtorque.eu/en/general-terms-and-conditions/

8. CONTACT US

Radial Torque Tools B.V.

Zuidergracht 17

3763 LS Soest

Phone: +31 35 588 24 50

Website: www.radialtorque.eu



*MASTER DISTRIBUTOR FOR EUROPE,
CENTRAL ASIA AND NORTH AFRICA:*

RADIAL TORQUE TOOLS B.V.

*ZUIDERGRACHT 17
3763 LS SOEST
THE NETHERLANDS*

PHONE: *+31 35 588 24 50*

EMAIL: *SALES@RADIALTORQUE.EU*

TECHSUPPORT@RADIALTORQUE.EU

WWW.RADIALTORQUE.EU