

Installation Guide: NexBot Vision 742-003 Contact Tip and Nozzle Set (0.045" Wire)

SKU: NXB-GEN-742-003 | Revision: 1.0 | Category: Wear Parts & Consumables > Welding Consumables > Contact Tips & Nozzles

DANGER: Disconnect all power sources before beginning installation. Follow lockout/tagout (LOTO) procedures per OSHA 1910.147.

1. Required Tools & Materials

- Calibrated torque wrench
- Metric hex key set
- Digital multimeter
- Precision level or alignment tool
- Lockout/tagout kit
- Laptop with commissioning software

2. Pre-Installation Checks

1. Verify that the delivered SKU matches NXB-GEN-742-003 and that the product name matches NexBot Vision 742-003 Contact Tip and Nozzle Set (0.045" Wire).
2. Confirm the installation location and use case align with the Wear Parts & Consumables > Welding Consumables > Contact Tips & Nozzles application requirements.
3. Inspect the unit for shipping damage and verify all visible surfaces, connectors, and fasteners are intact for the Chromium Zirconium Copper (CuCrZr) assembly.
4. Validate that the available power and controls infrastructure matches site-rated supply requirements.
5. Review the published protective rating and environmental limits before energizing the unit. Current ingress protection reference: the documented enclosure rating.
6. Confirm all applicable safety controls, guarding, and lockout/tagout procedures are in place before installation begins.

3. Installation Procedure

Step 1: Prepare the work area

Clear the installation zone, stage the required tools, and verify the mounting or routing path is suitable for NexBot Vision 742-003 Contact Tip and Nozzle Set (0.045" Wire). Use the documented dimensions and clearances before positioning the unit with attention to 100 x 60 x 20 mm.

Warning: Do not begin mechanical or electrical work until all energy sources are isolated and locked out.

Step 2: Position and secure the product

Install or route NexBot Vision 742-003 Contact Tip and Nozzle Set (0.045" Wire) according to the intended Wear Parts & Consumables > Welding Consumables > Contact Tips & Nozzles application, ensuring all fasteners, clamps, or supports are tightened in the correct sequence. If the product interfaces with other equipment, maintain access for service and inspection.

Step 3: Connect utilities and controls

Complete all required power, signal, and communications connections using the documented configuration for NXB-GEN-742-003. Verify polarity, connector orientation, and termination quality before energizing the system.

Warning: Connections must match the specified operating requirements for site-rated supply to avoid equipment damage or unsafe operation.

Step 4: Commission the installation

Apply control power, confirm the product initializes without alarms, and verify basic status indications. If software commissioning is required, load the appropriate configuration and confirm communications and diagnostics are healthy.

Step 5: Verify functional operation

Run a controlled functional test for NexBot Vision 742-003 Contact Tip and Nozzle Set (0.045" Wire) under safe conditions and verify the installation

performs as expected. Document any adjustments required before releasing the equipment to production.

Warning: Keep personnel clear of moving equipment during the first controlled startup.

4. Post-Installation Verification

1. Confirm all connectors, fasteners, and cable supports are secure and properly strain-relieved.
2. Verify no active alarms, faults, or abnormal status indicators remain after commissioning.
3. Record the final installation state, configuration details, and any deviations in the maintenance log.
4. Verify the equipment can be returned to service without interfering with guarding or operator access.
5. Ensure spare parts, support references, and service contacts are documented for the installed SKU.

Note: For technical support, contact your authorized service provider or visit <https://robotics.barca.group/support>.