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QTX 902.545UK

QTX 10-inch Driver for QT10 Speaker Cabinet User Manual

Model: 902.545UK

Brand: QTX

1. INTRODUCTION

This manual provides essential information for the safe and effective installation and use of your QTX 10-inch replacement speaker driver, model 902.545UK. Please read this manual thoroughly before installation and retain it for future reference. Proper installation and handling will ensure optimal performance and longevity of the product.

2. PRODUCT OVERVIEW

The QTX 10-inch replacement chassis speaker is specifically designed as a main driver for QTX QT10 carpet-covered speaker cabinets. It features robust construction, spade terminals for easy connection, and a 100W RMS power rating, making it suitable for various audio applications requiring a reliable and efficient speaker component.



Figure 1: A detailed view of the QTX 10-inch speaker driver, showcasing the cone, surround, and dust cap. The driver is designed for replacement in compatible speaker cabinets.

3. SAFETY INFORMATION

Always observe the following safety precautions to prevent damage to the product or injury to yourself:

- **Electrical Safety:** Ensure all power to the speaker cabinet and associated audio equipment is disconnected before attempting installation or maintenance.
- **Proper Handling:** Handle the speaker driver carefully. Avoid touching the cone directly, as this can cause damage.
- **Impedance Matching:** Ensure the impedance of the replacement driver (8 ohms) matches the requirements of your amplifier and speaker crossover network to prevent damage to your audio system.
- **Ventilation:** Ensure the speaker cabinet has adequate ventilation to prevent overheating of internal components.
- **Sound Levels:** Prolonged exposure to high sound pressure levels can cause permanent hearing damage. Use appropriate hearing protection when testing or operating at high volumes.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your QTX 10-inch driver:

4.1 Tools Required

- Screwdriver (appropriate for speaker cabinet fasteners)
- Wire strippers (if existing wires are not terminated with spade connectors)
- Soldering iron and solder (optional, if direct soldering is preferred over spade terminals)

4.2 Installation Steps

1. **Disconnect Power:** Ensure the speaker cabinet is completely disconnected from any power source or amplifier.
2. **Access Driver:** Carefully remove the grille and any mounting screws securing the existing driver in the

speaker cabinet. Gently pull out the old driver.

3. **Disconnect Wiring:** Note the polarity (+ and -) of the wires connected to the old driver. Disconnect the wires.
4. **Prepare Wiring:** If necessary, strip the ends of the speaker wires to expose clean copper. Attach spade connectors if not already present.
5. **Connect New Driver:** Connect the positive (+) wire from the speaker cabinet to the positive terminal on the new QTX driver. Connect the negative (-) wire to the negative terminal. Ensure connections are secure.
6. **Mount New Driver:** Carefully place the new QTX driver into the speaker cabinet opening. Align the mounting holes and secure the driver with the appropriate screws. Do not overtighten.
7. **Test System:** Reconnect the speaker cabinet to your amplifier. Start with a low volume and gradually increase to test the functionality of the new driver.

5. OPERATING THE DRIVER

The QTX 10-inch driver functions as a passive component within your speaker system. Once correctly installed, its operation is dependent on the audio signal provided by the amplifier connected to the speaker cabinet. Ensure your amplifier's output power and impedance are compatible with the driver's specifications to prevent damage and achieve optimal sound reproduction.

Always operate your audio system within safe listening levels. Avoid pushing the amplifier into clipping, which can generate distorted signals that may damage the speaker driver.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your speaker driver:

- **Cleaning:** Gently wipe the exterior of the speaker cabinet and driver (if accessible) with a soft, dry cloth. Avoid using liquid cleaners directly on the cone or surround.
- **Inspection:** Periodically inspect the speaker cone and surround for any signs of damage, tears, or deterioration. Check connections for tightness.
- **Storage:** If the speaker cabinet is to be stored for an extended period, ensure it is kept in a dry, temperate environment, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your QTX 10-inch driver, consider the following troubleshooting steps:

- **No Sound:**
 - Verify all speaker wire connections are secure and correctly polarized (+ to +, - to -).
 - Check the amplifier's power, input source, and volume settings.
 - Ensure the speaker cabinet's internal wiring and crossover (if applicable) are intact.
- **Distorted Sound:**
 - Reduce the amplifier's volume to check if distortion is due to clipping.
 - Inspect the speaker cone and surround for any physical damage.
 - Confirm the amplifier's impedance output matches the speaker's 8-ohm impedance.
- **Low Volume:**

- Check speaker wire connections for looseness or corrosion.
- Ensure the amplifier's gain or volume is set appropriately.
- Verify the audio source is providing a strong signal.

If these steps do not resolve the issue, contact customer support or a qualified technician.

8. SPECIFICATIONS

Feature	Specification
Brand	QTX
Model Number	902.545UK
Type	Replacement Chassis Speaker Driver
Speaker Size	10 inches (25.4 cm)
RMS Power	100 Watts
Max Power	200 Watts
Impedance	8 Ohms
Terminals	Spade
Weight	1.64 Kilograms
Dimensions (L x W x H)	10.3 x 13 x 27 cm
Compatible With	QTX QT10 Speaker Cabinets

9. WARRANTY INFORMATION

Warranty information for the QTX 10-inch Driver (Model 902.545UK) is typically provided at the point of purchase or through the official QTX website. Please refer to your purchase documentation or contact your retailer for specific warranty terms and conditions, including coverage period and claim procedures.

10. SUPPORT

For technical assistance, spare parts, or further inquiries regarding your QTX 10-inch Driver, please contact your authorized QTX dealer or visit the official QTX website for support resources. When contacting support, please have your product model number (902.545UK) and purchase details readily available.