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Focal TN-41

Focal TN-41 1" Tweeters User Manual

Model: TN-41 | Brand: Focal

PRODUCT OVERVIEW

The Focal TN-41 tweeters are high-quality 1-inch audio components designed for custom car audio installations. These tweeters are supplied without retail packaging or additional mounting brackets, making them ideal for experienced installers or those capable of fabricating their own mounting solutions. Each tweeter is pre-mounted on a coaxial arm, originally intended for integration into a coaxial speaker assembly. Users should be prepared to provide their own mounting hardware and adapt the tweeters to their specific vehicle's factory locations or custom enclosures.



Image: Front view of two Focal TN-41 1-inch tweeters, showcasing their compact design and the Focal logo.



Image: An angled perspective of the two Focal TN-41 tweeters, highlighting their dome and protective grille structure.



Image: Rear view of the Focal TN-41 tweeters, illustrating the base and the coaxial arm where wiring connections are made.

SETUP AND INSTALLATION

The Focal TN-41 tweeters are designed for integration into existing car audio systems. Due to their nature as components without dedicated mounting hardware, professional installation is highly recommended. If performing a DIY installation, ensure you have the necessary tools and knowledge for custom fabrication and wiring.

Mounting Considerations:

- These tweeters are best suited for custom installations where brackets are not pre-supplied.
- They can be mounted in factory locations using custom-fabricated hardware or suitable adhesives (e.g., hot glue, if appropriate for the application).
- Ensure the mounting location provides adequate clearance and does not obstruct any vehicle mechanisms.

Wiring:

- The tweeters utilize coaxial connectivity. Connect them to the appropriate high-frequency output of your amplifier or crossover network.
- Always observe correct polarity (+ and -) to ensure proper phase and sound reproduction. Incorrect wiring can lead to poor sound quality or damage.

- Use appropriate gauge speaker wire for connections to minimize signal loss.

It is crucial to integrate these tweeters with a suitable crossover (passive or active) to protect them from low-frequency signals, which can cause damage. Consult your amplifier or head unit manual for crossover settings.

OPERATING INSTRUCTIONS

Once properly installed and connected, the Focal TN-41 tweeters operate as part of your car's audio system. Their performance is largely dependent on the quality of the audio source, amplifier, and the tuning of your system.

Audio System Tuning:

- **Crossover Settings:** Ensure your amplifier or head unit's high-pass filter (HPF) is set appropriately for tweeters, typically above 3 kHz to prevent damage from low frequencies. Refer to your amplifier's manual for recommended settings.
- **Gain Adjustment:** Set the amplifier gain correctly to match the output voltage of your head unit. Avoid setting the gain too high, as this can lead to distortion and potential damage to the tweeters.
- **Equalization:** Use your head unit's equalizer to fine-tune the sound to your preference. Adjusting the high frequencies can enhance clarity and detail.

Listen for clear, crisp high-frequency reproduction. If you hear distortion or harshness, re-evaluate your system's settings, particularly the gain and crossover points.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your Focal TN-41 tweeters.

- **Cleaning:** Gently wipe the tweeter domes and grilles with a soft, dry, lint-free cloth. Avoid using harsh chemicals or abrasive cleaners, which can damage the materials.
- **Environmental Protection:** While designed for automotive use, protect the tweeters from excessive moisture, direct sunlight, and extreme temperatures when possible.
- **Connection Checks:** Periodically inspect all wiring connections to ensure they are secure and free from corrosion. Loose connections can lead to intermittent sound or poor performance.
- **Physical Damage:** Avoid touching the tweeter dome directly, as this can cause dents or damage that affect sound quality.

TROUBLESHOOTING

If you experience issues with your Focal TN-41 tweeters, refer to the following common troubleshooting steps:

No Sound from Tweeters:

- **Check Connections:** Ensure all speaker wires are securely connected to the tweeters, amplifier, and head unit. Verify correct polarity.
- **Amplifier Status:** Confirm the amplifier is powered on and not in protection mode. Check its fuses.
- **Crossover Settings:** Verify that the high-pass filter (HPF) on your amplifier or head unit is enabled and set correctly. If set too low or off, the tweeters may not receive the appropriate signal.
- **Source Unit:** Ensure the audio source (head unit) is functioning correctly and outputting sound.

Distorted or Harsh Sound:

- **Gain Setting:** The amplifier gain may be set too high, causing clipping. Reduce the gain gradually until

distortion disappears.

- **Crossover Point:** The crossover frequency might be too low, allowing mid-range or bass frequencies to reach the tweeters, causing distortion. Increase the HPF frequency.
- **Equalization:** Excessive boosting of high frequencies on your equalizer can lead to harshness. Adjust EQ settings for a balanced sound.
- **Damaged Tweeter:** In rare cases, the tweeter itself may be damaged. If other troubleshooting steps fail, consider professional inspection.

One Tweeter Not Working:

- **Individual Wiring:** Check the wiring for the non-working tweeter specifically. Look for loose connections or breaks in the wire.
- **Amplifier Channel:** If using a multi-channel amplifier, test the specific channel outputting to the non-working tweeter.

If these steps do not resolve the issue, it is advisable to consult a professional car audio technician.

TECHNICAL SPECIFICATIONS

Specification	Detail
Speaker Type	Tweeter
Mounting Type	Coaxial (designed for custom integration)
Connectivity Technology	Coaxial
Audio Output Mode	Stereo
Item Weight	3 Ounces (approx. per pair)
UPC	835101620167
ASIN	B00KQ15ALM
Manufacturer	Focal

WARRANTY INFORMATION

The Focal TN-41 tweeters come with a Limited Warranty. Specific terms and conditions of the warranty, including duration and coverage, are provided by the manufacturer, Focal. Please retain your proof of purchase for any warranty claims.

For detailed warranty information, it is recommended to visit the official Focal website or contact their customer support directly.

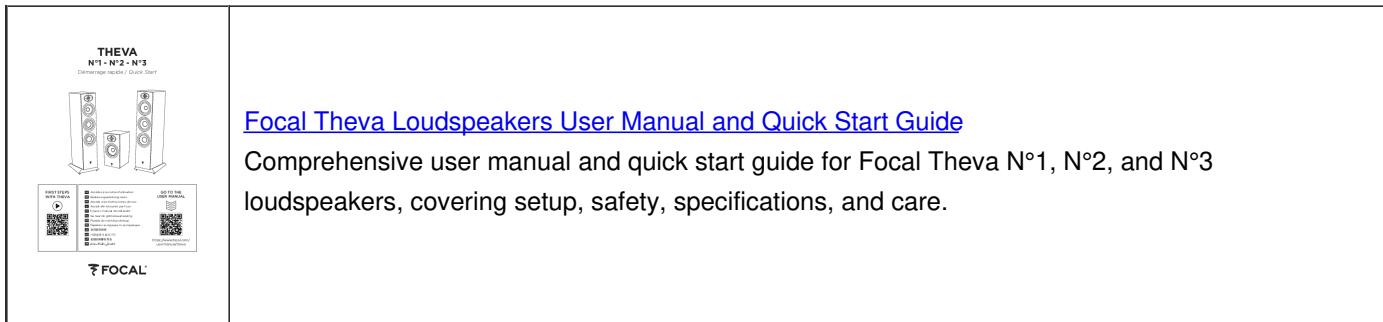
SUPPORT

For further assistance, technical inquiries, or support regarding your Focal TN-41 tweeters, please contact Focal customer service or visit their official website. They can provide the most accurate and up-to-date information regarding product specifications, installation guidance, and troubleshooting beyond the scope of this manual.

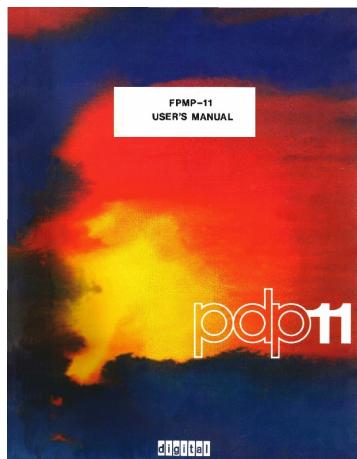
You can typically find contact information and support resources on the official Focal brand website.

Related Documents - TN-41

 IS PSA 165 & IC PSA 165 Focal IS PSA 165 & IC PSA 165 Car Speaker User Manual: Installation and Specifications	<p><u>Focal IS PSA 165 & IC PSA 165 Car Speaker User Manual: Installation and Specifications</u></p> <p>Comprehensive user manual for Focal IS PSA 165 and IC PSA 165 car audio speakers. Includes detailed technical specifications, step-by-step installation guides for woofers and tweeters, warranty information, and responsible disposal instructions.</p>
 T3Y IW T3Y 200 ICC T3Y 100 IS T3Y 100 IC T3Y 100 Focal T3Y Series Car Audio Speakers User Manual and Installation Guide	<p><u>Focal T3Y Series Car Audio Speakers User Manual and Installation Guide</u></p> <p>Comprehensive user manual and installation guide for Focal T3Y series car audio speakers, including models IW T3Y 200, ICC T3Y 100, IS T3Y 100, and IC T3Y 100. Features safety instructions, specifications, and setup details.</p>
 K2 POWER M FRAK 1.0 KM 3 KM 6.5 KM SUB 5 Focal K2 Power M Series Car Audio Speakers	<p><u>Focal K2 Power M Series Car Audio Speakers</u></p> <p>Explore the Focal K2 Power M series, featuring the FRAK tweeter and other models like 3 KM, 6.5 KM, and SUB 5. This guide provides an overview of their advanced features, technical specifications, installation diagrams, and recommended active filter settings for high-fidelity car audio systems.</p>
 INTEGRATION UNIVERSAL ISS Focal Integration Universal ISS Car Speaker User Manual and Installation Guide	<p><u>Focal Integration Universal ISS Car Speaker User Manual and Installation Guide</u></p> <p>Comprehensive user manual for the Focal Integration Universal ISS car speaker system. Includes detailed installation instructions for tweeters and woofers, wiring diagrams, compatibility information, and warranty details. Learn how to properly install and register your Focal speakers.</p>
 TUFF SPORT INDOOR LED TENNIS SCOREBOARDS INTEGRATION UNIVERSAL ISS Focal Integration Universal ISS Car Speaker User Manual and Installation Guide	<p><u>Daktronics Tuff Sport Indoor LED Tennis Scoreboards Installation Manual P1164</u></p> <p>Installation manual for Daktronics Tuff Sport Indoor LED Tennis Scoreboards (Model P1164). Covers mechanical and electrical installation, setup, options, and service programs.</p>



Documents - Focal – TN-41



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