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› [KICKER 48TRTP122 Subwoofer and DS18 CANDY-X1B Amplifier System User Manual](#)

KICKER 48TRTP122+CANDY-X1B+AMPKIT4

KICKER 48TRTP122 Subwoofer and DS18 CANDY-X1B Amplifier System User Manual

Model: 48TRTP122+CANDY-X1B+AMPKIT4

1. PRODUCT OVERVIEW

This manual provides instructions for the KICKER 48TRTP122 12-inch CompRT Down-Firing Loaded Subwoofer Enclosure, the DS18 CANDY-X1B Mono Class D Amplifier, and the accompanying DS18 AMPKIT4 4AWG Complete Amplifier Wiring Kit. This system is designed to enhance your vehicle's audio experience with powerful bass output.

2. WHAT'S IN THE BOX

- Kicker 48TRTP122 12" CompRT Series Down-Firing Loaded Subwoofer Enclosure
- DS18 CANDY-X1B Mono Candy-X Series Car Amplifier
- DS18 AMPKIT4 4AWG Complete Amplifier Kit, including:
 - 17 ft 4 AWG Red Power Wire
 - 3 ft 4 AWG Black Ground Wire
 - 17 ft Remote Wire
 - 17 ft Red/Black Speaker Cable
 - 17 ft Red/Black Twisted RCA Cable
 - Mini ANL Fuse Holder with Mini ANL 100A Fuse
 - 6 ft 4 AWG Loom Tube
 - 1 x Rubber Grommet
 - 10 x Cable ties
 - 2 x Ring Terminals
 - 2 x Spade Terminals
 - 5 x Small Spade Terminals



Figure 2.1: Components of the DS18 AMPKIT4 4AWG Complete Amplifier Kit.

3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. If you are unsure about any steps, consult a professional car audio installer.

3.1 Safety Precautions

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure all wiring is properly insulated and secured to prevent shorts and damage.
- Use appropriate personal protective equipment (PPE) during installation.

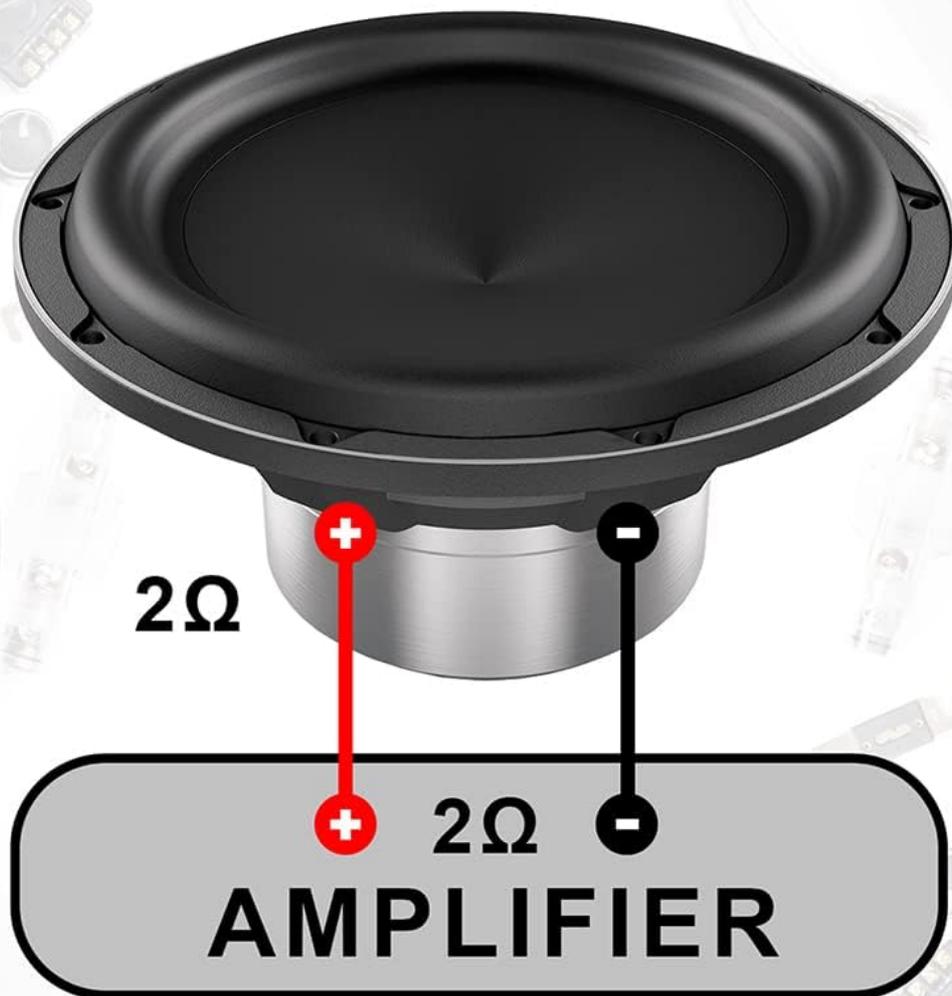
3.2 Subwoofer Enclosure Placement

The KICKER 48TRTP122 is a down-firing enclosure, designed to be placed in the trunk or cargo area of your vehicle. Ensure it is securely fastened to prevent movement during driving.

WIRING INSTRUCTIONS

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SUBWOOFER ENCLOSURE 2-OHM

Figure 3.1: KICKER 48TRTP122 Down-Firing Subwoofer Enclosure.

3.3 Amplifier Mounting

Mount the DS18 CANDY-X1B amplifier in a location that allows for adequate ventilation and protection from moisture. Common locations include under a seat, in the trunk, or on the back of a rear seat. Ensure it is securely mounted to prevent vibration damage.



Figure 3.2: DS18 CANDY-X1B Mono Class D Amplifier.

3.4 Wiring Instructions

Follow these steps carefully for wiring the system. Refer to the wiring diagram below for visual guidance.

1. **Power Wire (Red 4 AWG):** Run the 17 ft red power wire from the vehicle's positive battery terminal to the fuse holder, then from the fuse holder to the +12V terminal on the DS18 amplifier. Ensure the fuse holder is installed close to the battery (within 18 inches).
2. **Ground Wire (Black 4 AWG):** Connect the 3 ft black ground wire from the GND terminal on the amplifier to a clean, unpainted metal surface on the vehicle's chassis. Ensure a good electrical connection.
3. **Remote Turn-On Wire:** Connect the remote wire from your head unit's remote output to the REM terminal on the amplifier. This wire turns the amplifier on and off with your head unit.
4. **RCA Cables:** Connect the RCA cables from your head unit's subwoofer output (or full-range output if no dedicated sub output) to the RCA input jacks on the DS18 amplifier.
5. **Speaker Wire:** Connect the speaker cable from the amplifier's speaker output terminals to the KICKER subwoofer enclosure's input terminals. Ensure correct polarity (+ to + and - to -). The KICKER 48TRTP122 enclosure has a 2-ohm impedance.
6. **Bass Remote:** Connect the included bass remote to the dedicated remote port on the DS18 amplifier. Mount the remote in an accessible location for easy adjustment.



Figure 3.3: Subwoofer to Amplifier Wiring Diagram (2-ohm connection).

COMPETITION CLASS D MONOBLOCK AMPLIFIER



Figure 3.4: DS18 Bass Remote Control.

4. OPERATING INSTRUCTIONS

Once the system is installed, follow these steps to configure and operate your subwoofer and amplifier.

4.1 Initial Power-Up and Gain Setting

1. Reconnect the vehicle's negative battery terminal.
2. Turn on your head unit. The amplifier should power on (indicated by a blue LED on the amplifier).
3. Set the amplifier's GAIN control to its minimum (fully counter-clockwise) position.
4. Play a music track with strong bass at a moderate volume level on your head unit (around 75% of maximum volume).
5. Slowly increase the GAIN control on the amplifier until you hear distortion, then back it off slightly until the sound is clear. This sets the maximum clean output level.

4.2 Amplifier Controls (DS18 CANDY-X1B)

The DS18 CANDY-X1B amplifier features several controls for fine-tuning your bass output:

- **GAIN:** Adjusts the input sensitivity to match the output of your head unit. (See 4.1)
- **BASS BOOST (0-18 dB):** Increases the bass output at a specific frequency (typically around 45 Hz). Use sparingly to avoid distortion and speaker damage.
- **LPF (Low-Pass Filter) (50-150 Hz):** This filter allows only frequencies below the set point to pass through to the subwoofer. Adjust to blend the subwoofer's output seamlessly with your main speakers.
- **SUBSONIC FILTER (10-55 Hz):** Filters out extremely low frequencies that are inaudible and can cause damage to the subwoofer. Set it slightly below your subwoofer's lowest usable frequency.
- **PHASE (0/180 degrees):** Adjusts the phase of the subwoofer output relative to your main speakers. Experiment with both settings to find the one that provides the most impactful and coherent bass.
- **REMOTE:** Port for connecting the wired bass remote control, allowing convenient bass level adjustment from the driver's seat.



Figure 4.1: DS18 CANDY-X1B Amplifier Controls.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your audio system.

- **Cleaning:** Keep the subwoofer enclosure and amplifier clean and free of dust and debris. Use a soft, dry cloth. Avoid liquid cleaners directly on components.
- **Connections:** Periodically check all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.
- **Ventilation:** Ensure the amplifier's cooling fins are not obstructed to prevent overheating.
- **Fuse Check:** If the amplifier does not power on, check the fuse in the fuse holder near the battery. Replace with a fuse of the same rating (100A Mini ANL).

6. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
No sound from subwoofer	<ul style="list-style-type: none">• No power to amplifier• Loose RCA or speaker connections• Head unit settings• Amplifier in protection mode	<ul style="list-style-type: none">• Check power, ground, and remote wires. Verify fuse.• Ensure all RCA and speaker wires are securely connected.• Check head unit's subwoofer output settings and volume.• Turn off and restart amplifier. Check for shorts in speaker wiring.
Distorted sound	<ul style="list-style-type: none">• Gain set too high• Bass boost too high• Clipping from head unit• Damaged speaker wire	<ul style="list-style-type: none">• Reduce amplifier gain.• Lower bass boost setting.• Reduce head unit volume.• Inspect speaker wires for damage or shorts.
Amplifier overheats	<ul style="list-style-type: none">• Insufficient ventilation• Improper impedance load• Gain set too high	<ul style="list-style-type: none">• Ensure amplifier has clear airflow.• Verify subwoofer impedance matches amplifier's stable load (2 ohms for this system).• Reduce amplifier gain.
Bass remote not working	<ul style="list-style-type: none">• Loose connection• Damaged cable	<ul style="list-style-type: none">• Check the connection of the remote cable to the amplifier.• Inspect the cable for any visible damage.

7. SPECIFICATIONS

Detailed specifications for the components in this bundle.

7.1 KICKER 48TRTP122 12" CompRT Subwoofer Enclosure

- **Speaker Type:** Subwoofer
- **Subwoofer Diameter:** 12 Inches

- **Peak Power:** 1000 watts
- **RMS Power:** 500 watts
- **Impedance:** 2 ohms
- **Sensitivity:** 98dB
- **Special Feature:** Down-Firing, Active thin-mount CompRT subwoofer, High-output reFLEX passive woofer
- **Material:** Medium Density Fiberboard
- **Dimensions:** 27.5" W x 6.125" H x 14.625" D (Top) x 14.625" D (Bottom)

7.2 DS18 CANDY-X1B Mono Class D Amplifier

- **RMS Power Rating:**
 - 4 ohms: 240 watts x 1 channel
 - 2 ohms: 400 watts x 1 channel
 - 1 ohm: 600 watts x 1 channel
- **Max Power Output:** 1800 watts
- **Sensitivity:** 100dB
- **Frequency Response:** 20-150 Hz
- **Bass Remote:** Included
- **Design:** Class D
- **Variable Bass Boost:** 0-18 dB
- **Variable Low-pass filter (LPF):** 50-150 Hz
- **Subsonic Filter:** 10-55 Hz
- **Dimensions:** 5.9" W x 8.3" D x 2.16" H

7.3 DS18 AMPKIT4 4AWG Complete Amplifier Kit

- **Wire Gauge:** 4 AWG
- **Wire Material:** High Performance CCA (Copper Clad Aluminum)
- **Recommended for:** One amplifier up to 1300 Watts
- **Included Components:** Power wire, ground wire, remote wire, speaker cable, RCA cable, fuse holder with 100A fuse, loom tube, grommet, cable ties, various terminals.

8. WARRANTY INFORMATION

This product bundle typically comes with a manufacturer's warranty. The KICKER 48TRTP122 subwoofer enclosure and DS18 CANDY-X1B amplifier are covered by a full warranty from their respective manufacturers. Specific warranty terms, duration, and coverage details may vary. Please retain your proof of purchase for warranty claims. For detailed warranty information, refer to the documentation included with each individual component or visit the respective manufacturer's official website.

9. SUPPORT

If you encounter issues not covered in this manual or require further assistance, please contact the manufacturer's customer support:

- **KICKER Support:** Visit the official KICKER website for support resources, FAQs, and contact information.

- **DS18 Support:** Visit the official DS18 website for product support and contact details.

When contacting support, please have your product model numbers (48TRTP122, CANDY-X1B, AMPKIT4) and proof of purchase readily available.