

WnewTools ATOOL1264130

WnewTools 3800W RMS 4 Channel Car Audio Power Stereo Amplifier User Manual

Model: ATOOL1264130

INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of your WnewTools 3800W RMS 4 Channel Car Audio Power Stereo Amplifier. Please read this manual thoroughly before installation and use to ensure proper function and safety. Retain this manual for future reference.

PRODUCT OVERVIEW

Key Features

- 4 Channel 3800 Watts Car Amplifier for in-car audio systems.
- Capable of connecting to 4 speakers, suitable for most user configurations.
- Model: V12 705.
- MAX Power: 4ohm 120W.
- RMS Power: 4ohm 60W.

Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:

- 1x 4 Channel Car Amplifier
- 4x Screws
- 1x English User Manual (This document)

Product Views and Components



Figure 1: Front view of the amplifier with a conceptual diagram showing connections to speakers.



Figure 2: The amplifier shown with the included screws, fuse, and a small installation diagram from the physical manual.



Figure 3: Top view of the amplifier, highlighting the control panel with GAIN, LPF, and HPF adjustments for channels 1/2 and 3/4.



Figure 4: Angled view of the amplifier, focusing on the power input (GND, REM, B+) and speaker output terminals (FRONT SPEAKER, REAR SPEAKER, BRIDGED).



Figure 5: Angled view of the amplifier, showing the audio input (LOW INPUT, LOW OUT) and crossover controls (CROSSOVER, SUPER BASS, TREBLE) for channels 1/2 and 3/4.

Figure 7: Bottom view of the amplifier, showing the ventilation grilles and a sticker with a basic wiring diagram.



Figure 8: Close-up of the included 25A fuse and four mounting screws.

SPECIFICATIONS

Parameter	Value
Model	V12 705 (ATOOL1264130)
MAX Power	4ohm 120W
RMS Power	4ohm 60W
THD (Total Harmonic Distortion)	<0.02%
Bridged Power	200W/4CH
Frequency Response	20Hz~20KHz
Operating Voltage	12V
Impedance	4Ω
Maximum Power (Peak)	3800W (950W x 4)
Dimensions (L x W x H)	32CM x 26CM x 4CM (approx. 8.66 x 3.15 x 5.91 inches)
Material	Aluminum Alloy
Item Weight	5.3 ounces

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.

Safety Precautions

- Disconnect the vehicle's negative battery terminal before starting any electrical work.
- Ensure all wiring is properly insulated to prevent short circuits.

- Mount the amplifier securely in a well-ventilated area, away from direct sunlight, heat sources, and moisture.
- Use appropriate gauge wiring for power, ground, and speaker connections.

Mounting the Amplifier

Select a mounting location that allows for adequate airflow around the amplifier's heatsink. Use the provided screws to secure the amplifier to a solid surface in your vehicle. Ensure the mounting surface can support the amplifier's weight.

Wiring Connections

Refer to Figure 1 and Figure 6 for visual guidance on terminal locations.

1. **Power Connection (B+):** Connect a fused power cable directly from the positive terminal of your vehicle's battery to the B+ terminal on the amplifier. The fuse should be located within 18 inches of the battery.
2. **Ground Connection (GND):** Connect a short, heavy-gauge cable 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 (REM):** Connect a remote turn-on wire from your head unit (stereo) to the REM terminal on the amplifier. This wire signals the amplifier to turn on when the head unit is active.
4. **Audio Input (LOW INPUT):** Connect RCA cables from the pre-out jacks of your head unit to the LOW INPUT jacks on the amplifier.
5. **Speaker Connections:** Connect your speakers to the appropriate speaker terminals (FRONT SPEAKER, REAR SPEAKER). Observe correct polarity (+ to + and - to -). For bridged mode, refer to the amplifier's specific bridging instructions, typically indicated on the unit itself (see Figure 6 for "BRIDGED" markings).

OPERATING INSTRUCTIONS

Once installed, the amplifier can be configured for optimal audio performance.

Initial Power-Up

After all connections are made and verified, reconnect the vehicle's negative battery terminal. Turn on your head unit. The amplifier should power on automatically via the remote turn-on wire.

Adjusting Controls (Refer to Figure 3 and Figure 5)

- **GAIN (Input Level):** This control matches the amplifier's input sensitivity to the output voltage of your head unit. Start with the GAIN set to minimum. Play a familiar piece of music at a moderate volume on your head unit. Slowly increase the GAIN until you hear distortion, then back it off slightly.
- **CROSSOVER (LPF/HPF):**
 - **LPF (Low Pass Filter):** Allows only frequencies below the set point to pass through. Useful for subwoofers.
 - **HPF (High Pass Filter):** Allows only frequencies above the set point to pass through. Useful for full-range speakers to prevent distortion from low bass.
- **SUPER BASS:** Adjusts the bass boost level. Use sparingly to avoid distortion.
- **TREBLE:** Adjusts the high-frequency response.

Make small adjustments and listen carefully to the sound output to achieve your preferred audio balance.

MAINTENANCE

Regular maintenance helps ensure the longevity and performance of your amplifier.

- **Cleaning:** Periodically wipe the amplifier's exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- **Ventilation:** Ensure the amplifier's heatsink fins are free from dust and debris to maintain proper cooling. Do not block any ventilation openings.

- **Connections:** Occasionally check all wiring connections to ensure they are secure and free from corrosion.

TROUBLESHOOTING

If you experience issues with your amplifier, consult the following table before seeking professional assistance.

Problem	Possible Cause	Solution
No Power / Amplifier does not turn on	Blown fuse; Loose power/ground/remote wire; Faulty head unit remote output.	Check and replace fuse (see Figure 8 for fuse type); Verify all power, ground, and remote connections are secure; Test remote wire for 12V when head unit is on.
No Sound Output	Loose RCA cables; Incorrect speaker wiring; Amplifier in protection mode; Gain set too low.	Ensure RCA cables are securely connected; Check speaker wire polarity and connections; If protection light is on, check for short circuits in speaker wires or overheating; Increase GAIN setting gradually.
Distorted Sound	GAIN set too high; Speaker impedance mismatch; Damaged speakers.	Reduce GAIN setting; Verify speaker impedance matches amplifier's specifications; Test speakers individually.
Amplifier Overheats	Insufficient ventilation; Impedance too low; Prolonged high volume use.	Ensure proper airflow around the amplifier; Verify speaker impedance; Reduce volume or allow amplifier to cool down.

WARRANTY AND SUPPORT

For warranty information or technical support, please contact WnewTools customer service through the retailer where the product was purchased or visit the official WnewTools website. Please have your product model number (ATOOL1264130) and purchase details ready when contacting support.

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