# SPECIFICATIONS

| MDS T2 X TR | |
|---|---|
| Power output 4 Ω (watts) | 2 x 85 WRMS : 2 x 170 WATT : 340 WATT |
| Power output 2 Ω (watts) | 2 x 130 WRMS : 2 x 260 WATT |
| bridged channel 4 Ω(watts) | 1 x 340 WATT |
| THD | ≤ 0.05% |
| frequency response ( ± 1dB ) | 20Hz~20KHz +/~ 1dB |
| signal to noise ratio | |
| sensitivity | >90dB |
| recommended fuse type | 40A x2 (13,8V music) |
| dimensions | 275mm X 185mm X 59mm |


STOCKHOLM | SWEDEN
MDS
MAILBOX 2460
111 75 Stockholm
08 556 00 740

OULU | FINLAND
MDS - AUTOVIIHDE
Pauketie 2
90410 Oulu
08 348 300

www.mds.se | www.mds.fi




MDS

HIGH EFFICIENCY POWER AMPLIFIER

# OWNER'S MANUAL

## CAR AUDIO SYSTEM

***PLEASE READ CAREFULLY BEFORE INSTALLING OR OPERATED THIS UNIT***

**T2**

2-Channel Amplifier

The T2 XTR is a 2-channel amplifier that delivers powerful power in 4-, 2- or 8 Ohm. 2 x 85 Watt RMS in both channels at 4 Ohm, makes this 2-channel amplifier perfect for any full-range or component speaker. T2 is also the best choice to get an original equipped car play much better, rappers and with much more bass pressure. T2 can of course also be run in mono mode.

T2 like all other amplifiers in the T-series are built to be able to sit even in electric cars and at the same time be able to give maximum power (WATT RMS) with considerably less electric power consumption. MDS T-series XTR takes your electric car much longer.

**Automated smart Low Amperage Consumption**

MDS|HOME PREDATOR DYNAMIC FANATIC XTR

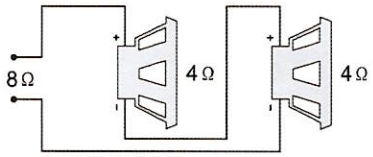
## WARNING

Make sure you choose a suitable place to mount the unit. The position should be completely dry with a good circulation of air, and from a mechanical point of view very stable.

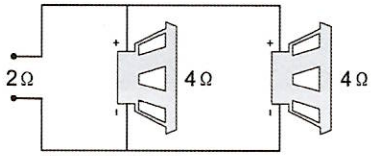
## System planning

Proper system planning is the best way to maximize your amplifier performance. By planning your installation carefully you can avoid situations where the performance of the reliability of your system is compromised. Your authorized dealer has been trained to maximize your system s sonic potential. Your dealer is a valuable resource in helping you with your system design and installation.

Speaker requirements
Each channel of your amplifier can easily drive 4Ω speaker loads when used in the stereo mode. When a channel-pair is bridged, the recommended minimum load impedance is 3Ω for subwoofer use, and 4Ω for full range operation. Although operation with lower impedances is not likely to cause immediate damage to the internal circuitry, the unit will most likely overheat, causing the thermal protection circuitry to shut down the amplifier. When the chassis cools down, normal operation will resume. Continuing to operate the amplifier under these conditions is not recommended and will reduce its life expectancy.

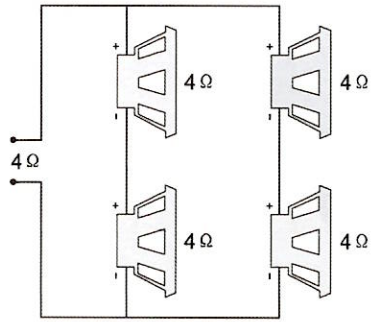


Series wiring



Parallel wiring

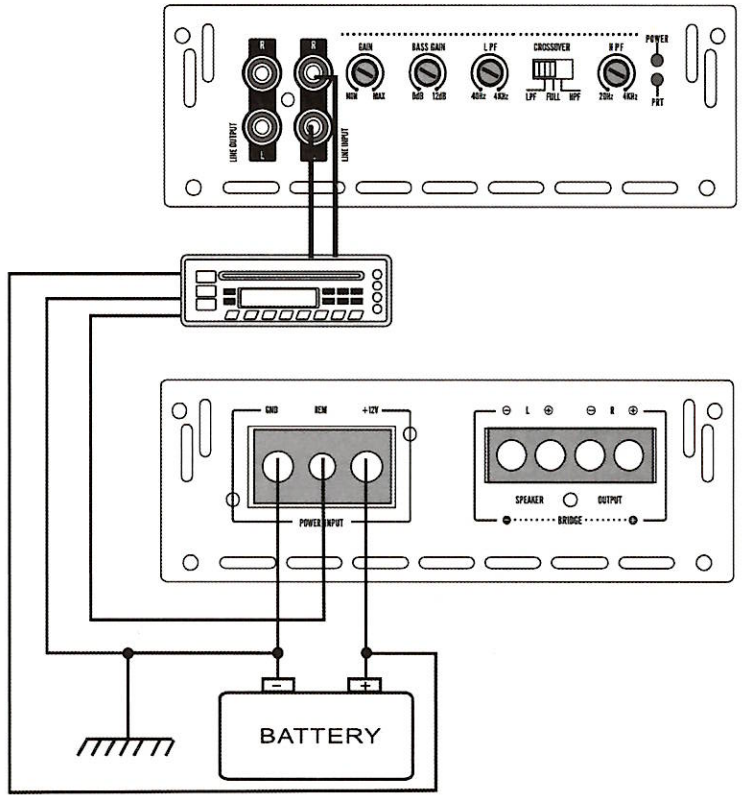
Most speakers designed for car audio operation are 4Ω impedance. Connecting two such speakers in parallel will result in a 2Ω impedance load as seen by the amplifier. Some subwoofer models feature a dual 4Ω voice coil design. Connecting these voice coils in parallel will result in a 2Ω nominal impedance, which is not recommended for use with bridged channels of your amplifier.



Series/parallel wiring



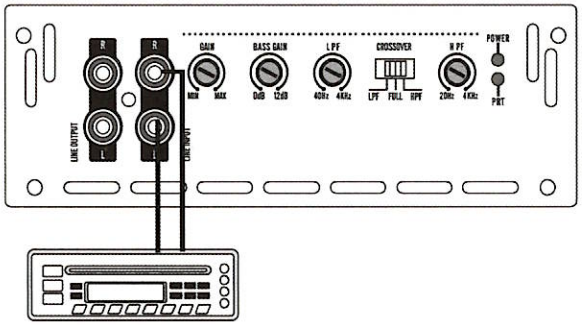
## Power Connection Leads

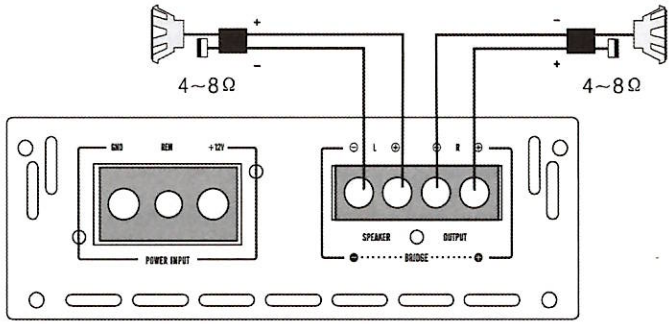



## Notes on the power supply

Connect the +12V power input lead only after all other leads have been connected.
Be sure to connect the ground wire of the unit securely to a metal part of the car.
A lose connection may cause a malfunction of the amplifier.
REMOTE: The unit is turned on by applying +12Volts to this terminal This terminal dose not draw heavy current like the two power terminal so a thinner connecting wire is acceptable. Standard 18 GAUGE is fine and the standard colour is yellow. If the radio is equipped with a power antenna control wire, it can drive this terminal. If the power antenna wire is already in use, you can still splice into it. With this method, the unit will turn on automatically with the radio. Use the power supply lead with a fuse attached whose value is the same as original fuse.
Place the fuse in the power supply lead as close as possible to the car battery.
During a full power operation, Maximum current will run through the system. Therefore, Make sure the that the leads to be connected to the +12v and GND terminals of the unit respectively must be larger than 10-Gauge (AWG.10).

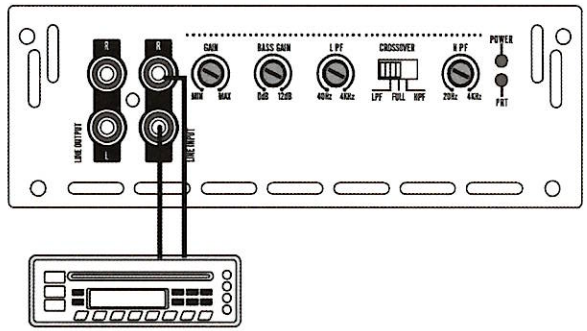
system 1: 2 channel mode

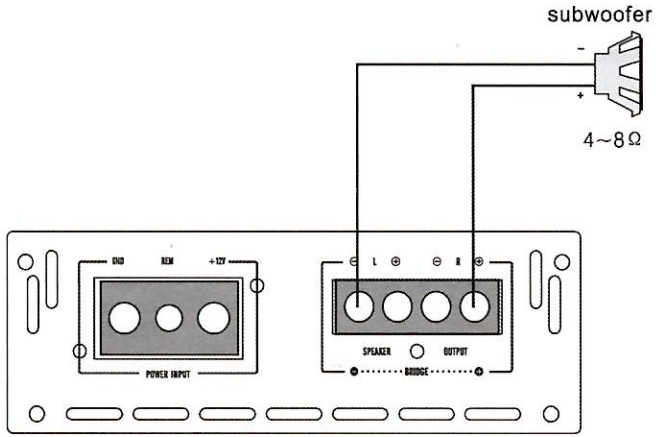





system 2: 1 channel bridged connection



# Troubleshooting

| symptom | possible cause | action to take |
|---|---|---|
| no output | low or no remote turn-on input | check remote turn-on voltage output at amplifier and correct as needed |
| | fuse blown | check power wire integrity and reversed polarity ,repair as needed and replace fuse |
| | power wires not connected | check power wire and ground connections and repair of replace as needed |
| | audio input not connected or no output from source | check input connections and signal integrity , repair or replace as needed |
| | speaker wires not connected | check speaker wires and repair or replace as needed |
| | speakers are blown | check system with known working speaker and repair or replace speakers as needed |
| audio cycles on and off | | |
| | thermal protection engages when amplifier heatsink temperature exceeds 90°C | make sure there is proper ventilation for amplifier and improve ventilation as needed |
| | loose or poor audio input | check input connections and repair or replace as needed |
| distorted output | amplifier level sensitivity set too high; exceeding maximum output capability of amplifier | reset gain referring to the tuning section of the manual for detailed instructions |
| | impedance load to amplifier too low | check speaker impedance load if below 2Ω stereo or 4Ω |
| | | mono rewire speakers to achieve a higher impedance |
| | shorted speaker wires | check speaker wire connections and repair or replace as needed |
| | speaker not connected to amplifier properly | check speaker wiring and repair of replace as needed refer to the installation section of this manual for detailed instructions |
| Symptom | possible cause | action to take |
| | internal crossover not set properly for speaker | reset crossovers referring to the multi-cross crossover configuration section of this manual |
| distorted output (cont'd ) | speakers are blown | check system with known working speakers and repair or replace as needed |