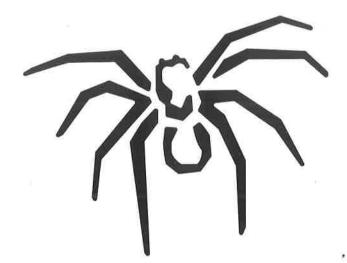


# OWNER'S MANUAL

T4.1500L T1.4000DL T1.6000DL T5.2500DL



# OWNER'S MANUAL

T4.1500L T1.4000DL T1.6000DL T5.2500DL

# **Table of Contents**

Installation	
Installation Notes, Installation of Amplifier, Electrical Connections	2
4-Channel Amplifiers T4.1500L	
Functions & Controls	3
Speaker- & RCA Connections	4-5
1-Channel Mono Bass Amplifier T1.4000DL	
Functions & Controls	6
Speaker- & RCA Connections	7-8
•	7-8
1-Channel Mono Bass Amplifier T1.6000DL	
Functions & Controls	9
Speaker- & RCA Connections	10-11
	10 71
5-Channel Amplifiers T5.2500DL	
Functions & Controls	12
Speaker- & RCA Connections	13-14
* *	10 14
Trouble Shooting	
	15
Specifications	

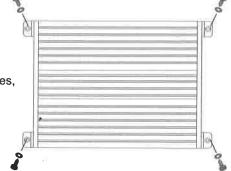
# Installation

#### **Installation Notes**

The amplifier is generally mounted in the rear trunk area but can be mounted in any convenient area such as beneath a seat. Please be sure to locate this unit where you have reasonable air circulation and protection from moisture. When considering the mounting location you should minimize the length of the power and speaker leads. Minimizing both leads will yield a more reliable installation. It is also important to ensure that the heat sink fins are not against a panel or a surface, preventing air circulation. Do not install the amplifier on a subwoofer box or on vibrating parts of the vehicle, since the vibrations can cause damage to the amplifiers electrical components.

#### Installation of the amplifier

Before starting with the installlation, mount the provided mounting brackets on the amplifier. Mark the location for the mounting screw holes by using the amplifier as a template. Drill holes at the marked locations as and firmly fasten the amplifier in place with the mounting screws supplied in the accessory kit. Before drilling or cutting any holes, investigate the layout of your automobile thoroughly: Take care when working near the gas lines or hydraulic lines and electrical wiring.



#### **Electrical Connection**

#### **Ground (GND)**

This wire is the electrical ground and must be fastened securely to the vehicle chassis. The best method is to use a threading sheet metal screw since the threads cut into bare metal. Ensure that all paint or other insulationis removed from around the hole area, and using self tapping screw, securely affix the bare wire ends to the vehicle chassis. Use as short a piece of cable as possible - use the same gauge as was used for the +12V cable. Make sure that the connection is safe and stable.

#### Remote (REM)

Connect the remote wire of your headunit with the remote turn-on of the power amplifier.

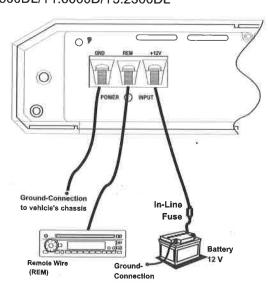
#### **Battery Connection (+12V Power)**

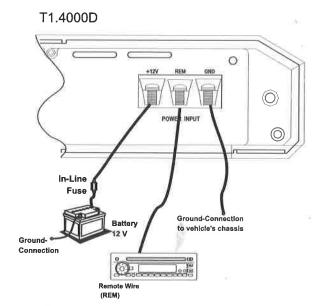
This wire is usually connected directly to the positive battery terminal. Ensure that the + power supply wire is fused via an in-line fuse near by the battery. Please use a sufficient gauge (min 16 mm) with spade lug with insulating sleeve.

#### **Fuses**

The integrated amplifier fuses protect the units from short circuit and overload. The fuse rating is for 4 Ohm loads (impedance) of the speakers, for 2/1 Ohm loads the fuses may have to get increased by up to 50%/100% in case of higher power consumption.

#### T4.1500DL/T1.6000D/T5.2500DL





# Functions & Controls

# T4.1500L

#### HP-/LOPASS CH1/2 & CH3/4

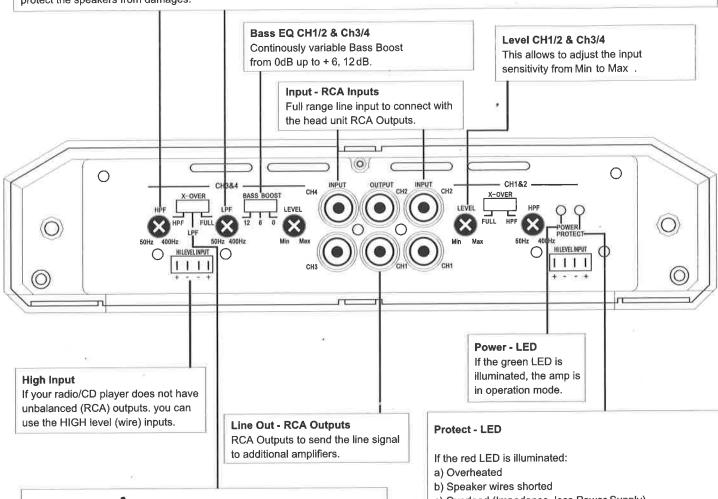
#### HP PASS (HighPass)

Controls the frequency response of your speakers downwards. The Cut-off frequency is continously variable from 50Hz up to 400Hz

#### LOW PASS (LowPass)

Controls the frequency response of your speakers upwards. The Cut-off frequency is continously variable from 50Hz up to 400Hz

If the X-OVER - Switch is set on LP -position, so the HP PASS-controller is activated as Subsonic-Filter, who eliminates the lowest frequencies to protect the speakers from damages.



#### X-Over CH1/2 & CH3/4

Selects the operation modes of the amplifier which is required:

#### **Position HPF:**

Highpass/Subsonic (frequency response is limited downwards. It is controlled by the HP PASS-controller)

#### Position FULL:

Provides a full range signal to the speakers (whole frequency response).

#### Position LPF:

Lowpass (frequency response is limited upward. It is controlled by the LOW PASS-controller)

- c) Overload (Impedance, less Power Supply)
- d) Amplifier is damaged

The built-in electronic diagnostic protection saves the amplifier and speakers from serious damage. If the red LED lights up due to overheating, let the amplifier coold down a while a turn it on again.

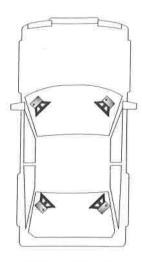
If the red light is still lighting up, ensure that all connections, especially the speakers are correct and not shorted.

If the amp is still in protection mode, try to restart the amplifier without any speaker or RCA wires.

If the green light is now lighting up, re-check again all speaker- and RCA-connections, to ensure correct connection.

# T4.1500L

#### 4-Channel-Mode: 2 Frontspeakers / Stereo & 2 Rearspeakers / Stereo



#### Cable connection

- Connect INPUT of the amplifier to the head unit line output with good quality RCA cables.
   By connecting the RCA jacks OUTPUT with a additional amplifier, a full range signal will be provided to the amplifier.
- Connect the speakers with the terminal block (CH1 +/- und CH2 +/ SPEAKER) and (CH3 +/- and CH4 +/ - SPEAKER) of the amplifier.
- The minimum final speaker impedance must not be below 2 Ohm per channel. Too low speaker loads result in too high heat dissipation and may cause the amplifier run into protection.
- Please observe speaker channel and polarity as printed by the speaker terminal block.
   Incorrect phasing of the speakers results in total loss of bass response.

#### Caution

Please avoid to connect speaker (-) to the ground or vehicle chassis.

#### X-OVER - Switch & Control CH1/2 and CH3/4

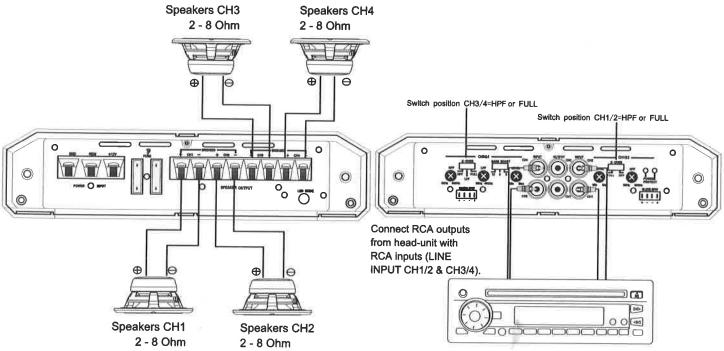
- If larger than 20 cm speakers are used, the "FULL" position is recommended.
- For all smaller speakers (8.7cm 16cm) the "HP"-Position (HIGH PASS) is recommended, which
  eliminates the lowest frequencies and protects the speakers from damage. Set the crossover-frequency
  between 50Hz 400Hz, depending on the size of the installed speakers. The Highpass adjustment can be
  done with the HIGH PASS Control. In this configuration the LOW PASS Control is not in use.

#### LEVEL INPUT - Control CH1/2 and CH3/4

- Turn the LEVEL INPUT Control on the amplifier to "6V" position.
- Turn the head unit volume control to about 80-90% of its full setting.
- Turn the LEVEL INPUT Control clockwise until you hear some distortion.
- Then turn back the LEVEL INPUT Control slightly until you can hear clean sound.

#### BASS BOOST CH1/2 and CH3/4

• Turn the BASS BOOST - Control into "0dB" - position.



# T4.1500L

#### 3-Channel-Mode: 2 Speakers/Stereo & 1 Subwoofer / Mono bridged



#### Cable connection

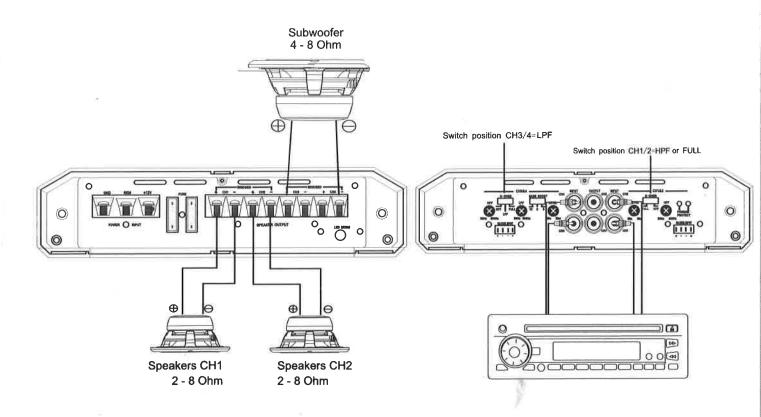
- Connect the INPUT of the amplifier to the head unit line output with good quality RCA cables.
   By connecting the RCA jacks OUTPUT with a additional amplifier, a full range signal will be provided to the amplifier.
- Connect the speakers with the terminal block (CH1 +/- & CH2 +/ SPEAKER OUTPUT and the subwoofer with CH3/4 + BRIDGED SPEAKER OUTPUT) of the amplifier.
- The minimum final speaker impedance must not be below 2 Ohm per channel and 4 Ohm (Subwoofer) per channelpair. Too low speaker loads result in too high heat dissipation and may cause the amplifier run into protection.
- Please observe speaker channel and polarity as printed by the speaker terminal block. Incorrect phasing of the speakers results in total loss of bass response.

#### Caution

Please avoid to connect speaker (-) to the ground or vehicle chassis.

#### BASS BOOST - Control (Subwoofer on CH3/4)

• The BASS BOOST - Control adjusts the bass level at 45 Hz from 0dB up to 12dB. Caution1 Please use the Bass-Boost carefully.



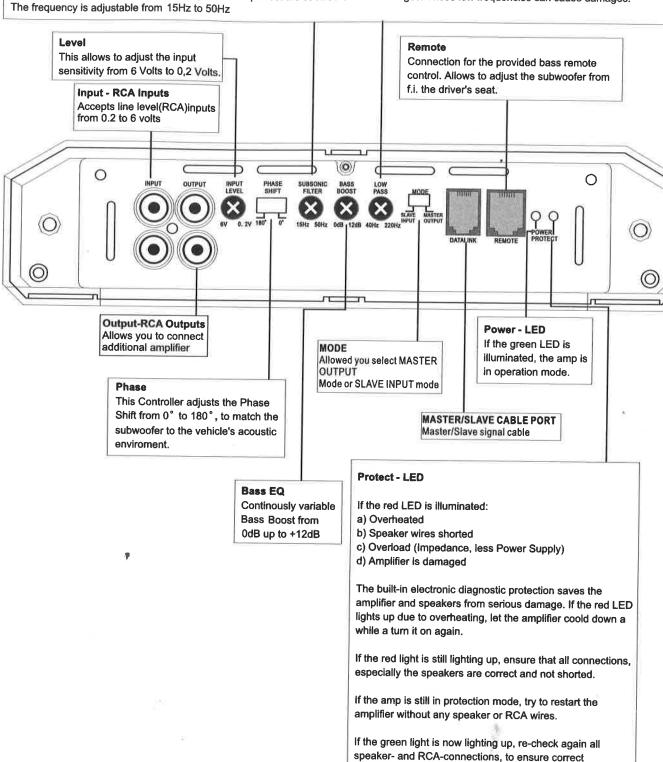
# Functions & Controls T1.400001

#### **Low Pass**

This Controller adjusts the frequency response of your subwoofer upwards and is continously variable from 40Hz to 220Hz

#### **Sub Sonic**

This Controller eliminates the lowest frequencies to protect the subwoofer from damages. These low frequencies can cause damages. The frequency is adjustable from 15Hz to 50Hz



connection.

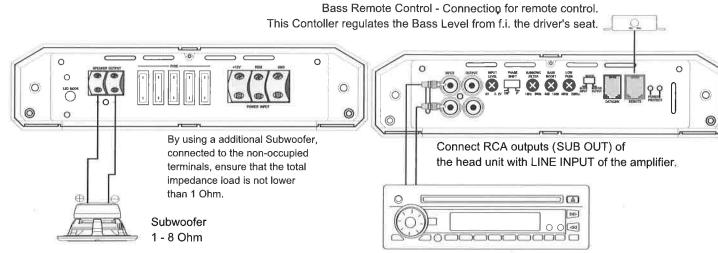
#### T1.4000DL

#### RCA & Speaker wiring:

- Connect the LINE INPUT of the amplifier to the head unit line output with appropriate good quality RCA cables. As optional feature the Balanced Inputs can be used. But therefor an signal transmitter with specific wires is required. Ask your specialist dealer for the required equipment.
- ï Connect the subwoofer with appropriate wires to the terminal block (SPEAKER OUTPUT + and ) of the amplifier. As optional feature a additional Subwoofer can be connected to the non-occupied terminals.
- The minimum final subwoofer impedance must not be lower than 1 Ohms in total. Too low speaker loads result in too high heat dissipation and may cause the amplifier run into protection.
- · Please observe correct speaker channels and polarity as printed by the speaker terminal

#### Caution!

Do not connect speaker (-) to the ground or vehicle's chassis.



#### **Low Pass**

 This eliminates the higher frequencies. Set the crossover-frequency between 40Hz-220Hz, depending on the size of the installed subwoofer.

#### **Sub Sonic**

• This eliminates the lowest frequencies and protects the speakers from damage. Set the frequency between 15Hz-50Hz, depending on the size of the installed subwoofer.

#### Phase

• This Controller allows to adjust the Phase Shift 0° to 180°, to match the subwoofer to the vehicle's acoustic environment.

#### Input Level

- Turn the LEVEL control of the amplifier to 6V position.
- Turn the head unit volume control to about 80 90% of its full setting.
- Turn the LEVEL control clockwise until you hear some distortion.
- Then turn back the LEVEL control slightly until you can hear a clean sound.

#### **Bass EQ**

This Controller regulates the Bass Boost from 0 - 12dB.
 Caution! Please use the Bass-EQ carefully. The additional boost may result in clipping or overload.

#### **Bass Remote**

• The provided Bass Remote regulates the Bass Level from f.i. the driver's seat.

# T1.40001

# MASTER/SLAVE-MODE / Subwoofer-Mode with two Ampifiers

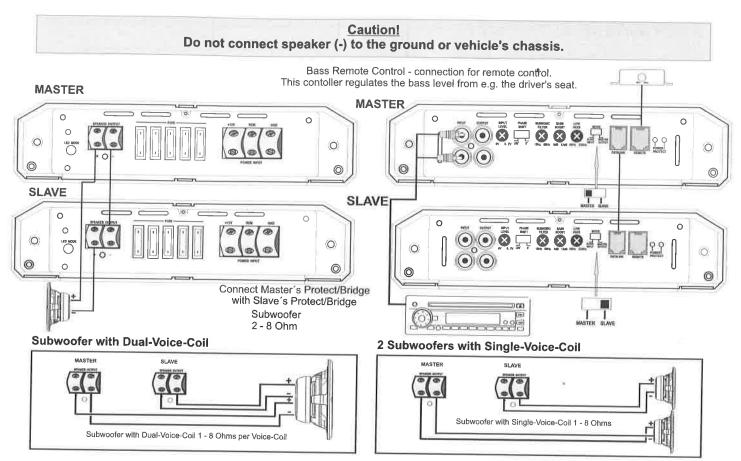
• Connect the "LINE IN" (L & R) of the MASTER-amplifier to the head unit's line output with appropriate good quality RCA cables.

Connect the "SLAVE OUT" RCA Output of the MASTER-Amp with the "LINE IN" RCA Input of the SLAVE-AMP.

Connect the "REMOTE"-Terminal of the MASTER-Amp with the supplied BASS REMOTE.

Connect the "REMOTE"-Wire of your head unit with the REM-Terminals of both Amplifiers.

- Connect the subwoofer with appropriate wires to the terminal block (SPEAKER OUTPUT+ and ) of both amplifiers. As optional feature an additional Subwoofer can be connected to the non-occupied terminals.
- Connect the Protect/Bridge Connection of the Master with the Protect/Bridge Connection of the Slave. This connection warrants if there is an operation fault both amps, Master and Slave, would go into protection mode so the amps are prevented for any possible damages.
- The minimum final subwoofer impedance must not be lower than 2 Ohms in total (1 Ohm for each Amplifier) or 2 Ohms bridged. Too low speaker loads result in too high heat dissipation and may cause the amplifier run into protection.
- Please observe correct speaker channels and polarity as printed by the speaker terminal.



Caution: Please observe the right polarity. Slave's - to Loudspeaker's + and Slave's + to Loudspeaker's -.

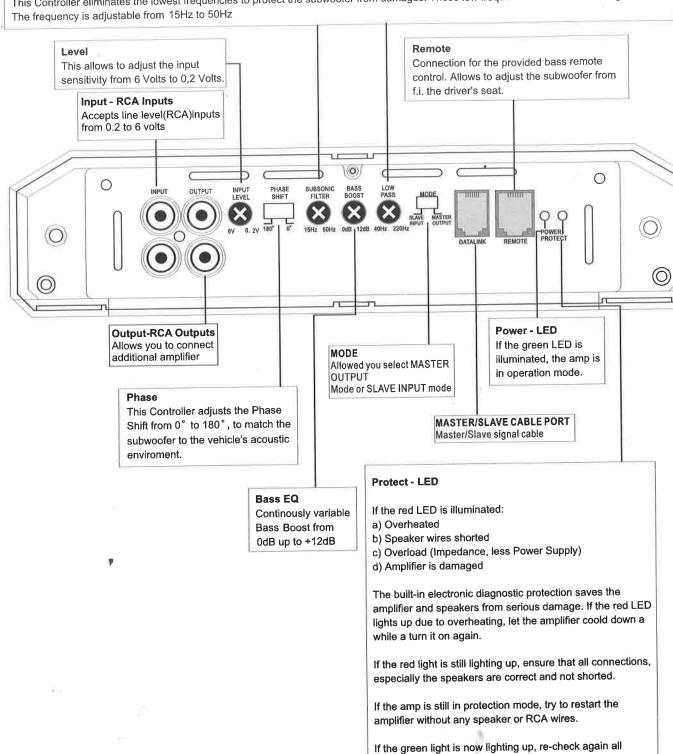
# Functions & Controls T1.6000DI

#### Low Pass

This Controller adjusts the frequency response of your subwoofer upwards and is continously variable from 40Hz to 220Hz

#### **Sub Sonic**

This Controller eliminates the lowest frequencies to protect the subwoofer from damages. These low frequencies can cause damages.



speaker- and RCA-connections, to ensure correct

connection.

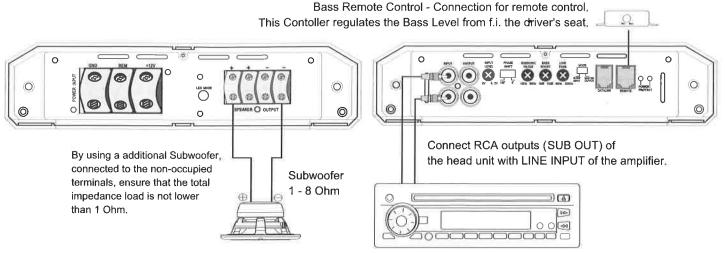
# T1.6000DL

#### RCA & Speaker wiring:

- Connect the LINE INPUT of the amplifier to the head unit line output with appropriate good quality RCA cables. As optional feature the Balanced Inputs can be used. But therefor an signal transmitter with specific wires is required. Ask your specialist dealer for the required equipment.
- ï Connect the subwoofer with appropriate wires to the terminal block (SPEAKER OUTPUT + and ) of the amplifier. As optional feature a additional Subwoofer can be connected to the non-occupied terminals.
- The minimum final subwoofer impedance must not be lower than 1 Ohms in total. Too low speaker loads result in too high heat dissipation and may cause the amplifier run into protection.
- Please observe correct speaker channels and polarity as printed by the speaker terminal

#### Caution!

Do not connect speaker (-) to the ground or vehicle's chassis.



#### **Low Pass**

• This eliminates the higher frequencies. Set the crossover-frequency between 40Hz-220Hz, depending on the size of the installed subwoofer.

#### **Sub Sonic**

• This eliminates the lowest frequencies and protects the speakers from damage. Set the frequency between 15Hz-50Hz, depending on the size of the installed subwoofer.

#### **Phase**

• This Controller allows to adjust the Phase Shift 0° to 180°, to match the subwoofer to the vehicle's acoustic environment.

#### **Input Level**

- Turn the LEVEL control of the amplifier to 6V position.
- Turn the head unit volume control to about 80 90% of its full setting.
- Turn the LEVEL control clockwise until you hear some distortion.
- Then turn back the LEVEL control slightly until you can hear a clean sound.

#### Bass EQ

This Controller regulates the Bass Boost from 0 - 12dB.
 Caution! Please use the Bass-EQ carefully. The additional boost may result in clipping or overload.

#### **Bass Remote**

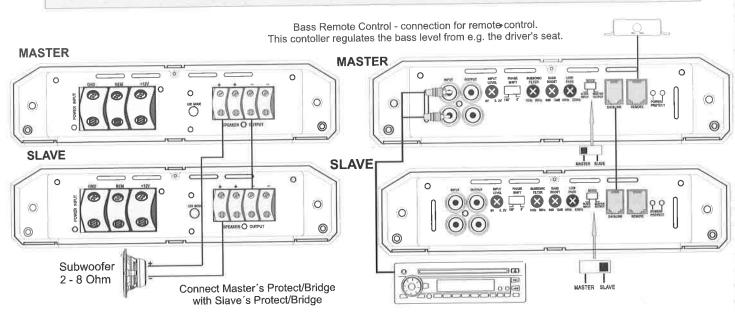
• The provided Bass Remote regulates the Bass Level from f.i. the driver's seat.

# T1.6000DL

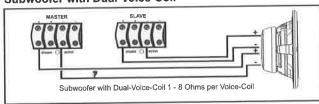
#### MASTER/SLAVE-MODE / Subwoofer-Mode with two Ampifiers

- Connect the "LINE IN" (L & R) of the MASTER-amplifier to the head unit's line output with appropriate good quality RCA cables.
   Connect the "SLAVE OUT" RCA Output of the MASTER-Amp with the "LINE IN" RCA Input of the SLAVE-AMP.
- Connect the "REMOTE"-Terminal of the MASTER-Amp with the supplied BASS REMOTE.
- Connect the "REMOTE"-Wire of your head unit with the REM-Terminals of both Amplifiers.
- Connect the subwoofer with appropriate wires to the terminal block (SPEAKER OUTPUT+ and ) of both amplifiers. As optional feature an additional Subwoofer can be connected to the non-occupied terminals.
- Connect the Protect/Bridge Connection of the Master with the Protect/Bridge Connection of the Slave. This connection warrants if there is an operation fault both amps, Master and Slave, would go into protection mode so the amps are prevented for any possible damages.
- The minimum final subwoofer impedance must not be lower than 2 Ohms in total (1 Ohm for each Amplifier) or 2 Ohms bridged. Too low speaker loads result in too high heat dissipation and may cause the amplifier run into protection.
- · Please observe correct speaker channels and polarity as printed by the speaker terminal.

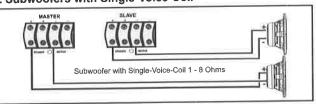
#### Caution! Do not connect speaker (-) to the ground or vehicle's chassis.



#### Subwoofer with Dual-Voice-Coil



#### 2 Subwoofers with Single-Voice-Coil



Caution: Please observe the right polarity. Slave's - to Loudspeaker's + and Slave's + to Loudspeaker's -.

# Functions & Controls T5.2500DL

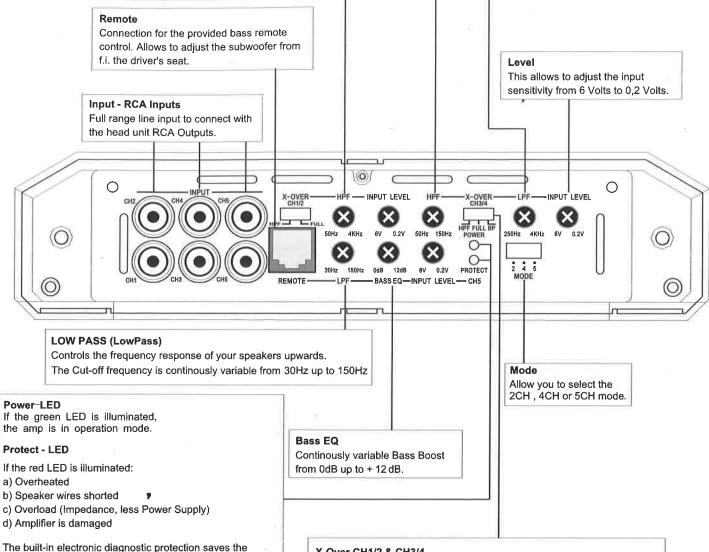
#### HP PASS (HighPass) CH1/2

Controls the frequency response of your speakers downwards. The Cut-off frequency is continously variable from 50Hz up to 4KHz

#### HP PASS (HighPass) CH3/4

Controls the frequency response of your speakers downwards. The Cut-off frequency is continously variable from 50Hz up to 150Hz

#### LOW PASS CH3/4



#### X-Over CH1/2 & CH3/4

Selects the operation modes of the amplifier which is required:

#### **Position HPF:**

Highpass/Subsonic (frequency response is limited downwards. It is controlled by the HP PASS-controller)

#### **Position FULL:**

Provides a full range signal to the speakers (whole frequency response).

#### Position BP:

Lowpass (frequency response is limited upward. It is controlled by the LOW PASS-controller)

Controls the frequency response of your speakers upwards. The Cut-off frequency is continously variable from 250Hz up to 4kHz

#### If the red light is still lighting up, ensure that all connections, especially the speakers are correct and not shorted. If the amp is still in protection mode, try to restart the amplifier without any speaker or RCA wires.

while a turn it on again.

amplifier and speakers from serious damage. If the red LED

lights up due to overheating, let the amplifier coold down a

If the green light is now lighting up, re-check again all speaker- and RCA-connections, to ensure correct connection.

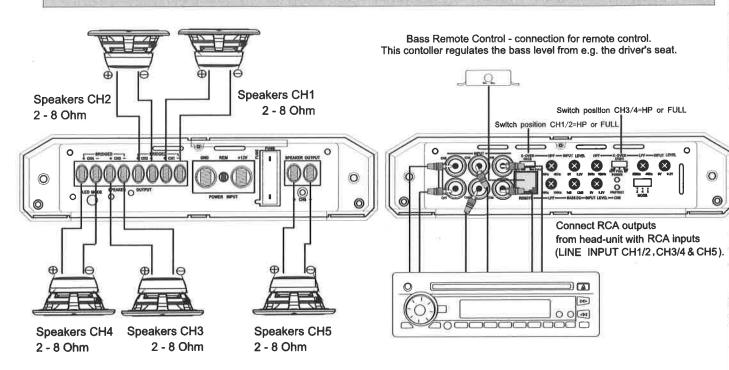
# T5.2500DL

#### INTERCONNECTION EXAMPLE 5-Channel Mode: 5x Stereo System (Front or rear)

#### RCA & Speaker wiring:

- · Connect the RCA lineouts of the headunit with the RCA jacks LINE INPUT of the amplifier with appropriate high-value RCA cables.
- Connect the front or rear speakers with the speaker outputs (CH1+/- und CH2 +/- SPEAKER), (CH3 +/- und CH4 +/- SPEAKER) and (CH5 +/- SPEAKER) by using appropriate wires.
- Ensure by any means, that the total impedance load of all speakers is not lower than 2 ohms. Too low impedance cause high temperature and will shut down the amplifier operation.
- Always ensure the correct polarity of the speakers. The interchange of plus and minus cause total loss of bass playback and could damage the speakers.

# <u>Caution!</u> Do not connect speaker (-) to the ground or vehicle's chassis.



- · By using bigger speakers (more than 20cm) you can set the X-OVER switch to the FULL position (Full Range Signal).
- By using smaller speakers (8.7cm 16cm) you must set the X-OVER switch to the HPF Position (Highpass Mode) to avoid any damage by lower frequencies on the speakers. The cut-off frequency is adjustable with the HIGH PASS controller and should be set between 50Hz to 4kHz(CH1/2) and 50Hz to 150Hz(CH3/4), depending on the size of the speakers.
- The LOW PASS Controller is not in use in this interconnecting example.

#### **LEVEL CONTROLLER**

- Turn the LEVEL controller of the amplifier to the 6V position.
- Turn the volume controller of the headunit to 80 90% of its full setting.
- Turn the LEVEL controller clockwise until you hear some distortion.
- Then turn back the LEVEL controller slightly until you hear a cleaner sound.

#### **BASS BOOST CONTROLLER**

The BASS BOOST controller must be turned to 0 dB position in this interconnecting example.

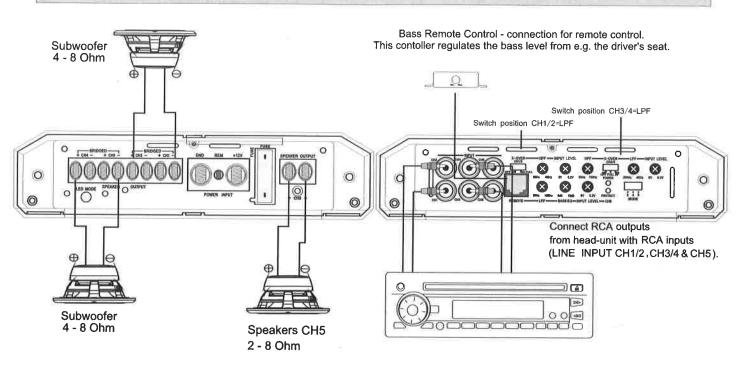
# Speaker & RCA Connections T5.2500DL

#### INTERCONNECTION EXAMPLE 5-Channel Mode: 4 x Stereo System (Front or rear)

#### **RCA & Speaker wiring:**

- · Connect the RCA lineouts of the headunit with the RCA jacks LINE INPUT of the amplifier with appropriate high-value RCA cables.
- Connect the front or rear speakers with the speaker outputs (CH1+/- and CH2+/- SPEAKER) and (CH3+/- und CH4+/- SPEAKER) by using appropriate wires.
- Ensure by any means, that the total impedance load of all speakers is not lower than 2 ohms. Too low impedance cause high temperature and will shut down the amplifier operation.
- Always ensure the correct polarity of the speakers. The interchange of plus and minus cause total loss of bass playback and could damage the speakers.

# <u>Caution!</u> Do not connect speaker (-) to the ground or vehicle's chassis.



- By using bigger speakers (more than 20cm) you can set the X-OVER switch to the FULL position (Full Range Signal).
- By using smaller speakers (8.7cm 16cm) you must set the X-OVER switch to the HPF Position (Highpass Mode) to avoid any damage by lower frequencies on the speakers. The cut-off frequency is adjustable with the HIGH PASS controller and should be set between 50Hz to 4kHz(CH1/2) and 50Hz to 150Hz(CH3/4), depending on the size of the speakers.
- · The LOW PASS Controller is not in use in this interconnecting example.

#### **LEVEL CONTROLLER**

- Turn the LEVEL controller of the amplifier to the 6V position.
- Turn the volume controller of the headunit to 80 90% of its full setting.
- Turn the LEVEL controller clockwise until you hear some distortion.
- Then turn back the LEVEL controller slightly until you hear a cleaner sound.

#### **BASS BOOST CONTROLLER**

The BASS BOOST controller must be turned to 0 dB position in this interconnecting example.

# Troubleshooting

#### System does not turn on

- 1. Check all fuses.
- 2. Check all connections.
- 3. Measure the +12 volt and remote turn on voltages at the amplifier terminals. If these are non existent or low, take voltage measurements at fuse holders, distribution blocks, the head unit's +12 volt and remote leads to localize the problem.

#### Noise problems

- 1.Check the speaker wiring
- 2.Speakers are damaged

#### No Signal at all Channels

- 1. Set Balance and Fader from head unit on Zero-Position
- 2. Check wiring (Amplifier, Speakers)
- 3. Speakers are damaged
- 4. Subsonic Filter is adjusted too high or Lowpass Filter is adjusted too low

#### Hiss or white noise

- 1. Speakers are overload
- 2. High levels of white noise usually occurs when amplifier level controls are turned up too high readjust according to the procedures in section "Setting up systems after installation for best performance"
- 3. Another problem that can cause excessive hiss, is a noisy head unit unplug the amplifier input RCA cables, and if the hiss level reduces, the source unit is at fault.

#### No Stereo-Sound or Low Output

1.Check speaker wiring (- and +)

#### Amplifier Protection-Mode (red LED is illuminated)

- 1. Speaker cabels are shorted
- 2. Inadequate cooling relocate or remount to provide better natural airflow over the fins.

  Driving high power levels into low impedances back off on the volume control, and/or make sure you are not loading the amplifier with less than the recommended loudspeaker impedance.
- 3. Make sure that the battery voltage, as measured at the amplifier's +12 volt and ground terminals, is 11 volts or more.

#### Electrical interference

The inside of an automobile is a very hostile electrical environment. The multitude of electrical systems, such as the ignition system, alternator, fuel pumps, air conditioners to mention just a few, create radiated electrical fields, as well as noise on the +12 volt supply and ground. Remember to isolate the problem - first unplug amplifier input RCAcables, if the noise is still present, check the speaker leads, if not, plug the RCA's back, and investigate the source driving the amplifier, one component at a time.

#### A ticking or whine that changes with engine RPM:

- 1. This problem could be caused by radiation pickup of RCA cables too near to a fuel pump or a distributor, for instance, relocate cables.
- 2. Check that the head unit ground is connected straight to the vehicle chassis, and does not use factory wiring for ground.
- 3. Try to supply the head unit with a clean +12 volt supply directly from the battery +, instead of using a supply from the in dash wiring/fusebox. This type of noise can be more difficult to pinpoint, but is usually caused by some kind of instability, causing oscillations in the system.

#### A constant whine:

- 1. Check all connections, especially for good grounds.
- 2. Make sure that no speaker leads are shorting to exposed metal on the vehicle chassis.
- 3. RCA cables are notorious for their problematic nature, so check that these are good, in particular the shield connections.

#### Cautioni

In this amplifier are integrated protection circuits. Short Circuit Protection engaged: The amplifier will turn off and try to come back on immediately. The amplifier will cycle like this indefinitely, with "blips" of sound each time. If this is the case, check your speakers and wiring for low impedance and short circuits. Thermal Protection engaged: The amplifier will turn off and several minutes later will come back on. In this case, ensure that there is nothing blocking the normal convective airflow of the amplifier. No obstruction should be within 2" of the amplifier on all sides. NOTE: Low battery voltage will cause the amplifier to run warmer and possibly damage the amplifier. If the red LED still lighting up after all re-checking, the amplifier is damaged. Please send then a detailled malfunction description and a copy of the invoice of purchase together with the device to you car audio retailer.

# **Specifications**

The state of the s		T4.1500L	T1.4000DL	T1.6000DL	T5.2500DL	
hm         4 x 120W         1 x 700W         1 x 800W           hm         4 x 180W         1 x 1300W         1 x 1400W           hms         1 x 200W         1 x 200W         1 x 2500W           hms         -         1 x 200W         1 x 200W           hms         -         1 0 x 2 0 W         1 x 300W         1 x 300W           nn mono bridged         2 x 360W         -         1 0 x 2 0 W         - <th< td=""><td>Channels</td><td>4</td><td>-</td><td>-</td><td>ഹ</td><td></td></th<>	Channels	4	-	-	ഹ	
hms         4 x 180W         1 x 1300W         1 x 1400W           hms         -         1 x 2000W         1 x 2000W           hms         -         1 x 2000W         1 x 3000W           nrse         1 0Hz - 50KHz         1 0Hz - 150Hz         1 0Hz - 150Hz           o         0 0.2 d         0 0.10 dB         > 104 dB         > 104 dB           o         0 0.2 d         0 0.10 dB         > 104 dB         > 104 dB           o         0 0.2 d         0 0.10 dB         > 104 dB         > 104 dB           o         0 0.2 d         0 0.10 dB         > 104 dB         > 104 dB           s 0 1 d         d         0 0.2 d         0 0.10 dB         > 104 dB           s 0 1 d         d         0 0.2 d         0 0.10 dB         D 0.12 dB	Vatts RMS into 4 Ohm	4 × 120W	1 × 700W	1 × 800W	4 x 75W+1 x 325W	
hms         1 x 2000W         1 x 2500W           hms         1 x 2000W         1 x 2000W           hms         1 x 3000W         1 x 3000W           onse         10Hz - 50KHz         10Hz - 50KHz         10Hz - 150Hz           onse         > 104 dB         > 104 dB         > 104 dB           onse         > 104 dB         > 104 dB         > 104 dB           onse         > 104 dB         > 104 dB         > 104 dB           onse         > 104 dB         > 104 dB         > 104 dB           onse         > 104 dB         > 104 dB         > 104 dB           onse         0 - 2 6 Volt           streat         - 47 Kohm         > 47 Kohm         > 47 Kohm         - 47 Kohm           streat         40 Mz         12 dB         12 dB         12 dB           liter         12 dB         12 dB         12 dB	Vatts RMS into 2 Ohm	4 × 180W	1 × 1300W	1 × 1400W	4 x 125W+1 x 500W	
hms         1 x 3000W           nn mono bridged         2 x 360W         1 (0Hz - 300Hz)         1 (0Hz - 150Hz)           o         > 104 dB         > 104 dB         > 104 dB           o         < 0,05 db         < 0,10 db         > 104 dB         > 104 dB           o         < 0,05 db         < 0,10 db         < 0,2 db voit         < 0,10 db	Vatts RMS into 1 Ohms	1	1×2000W	1 x 2500W	1	
Inn mono bridged         2 x 360W         —	latts RMS into 5 Ohms	3		1 × 3000W	1	
ope         10Hz - 50KHz         10Hz - 150Hz         10Hz - 150Hz           o         > 104 dB         > 104 dB         > 104 dB           < 0,05 %         < 0,10 %         < 0,10 %         < 0,10 %           0,2-6 Volt         0,2-6 Volt         0,2-6 Volt         < 0,10 %           50Hz - 400Hz         —         47 KOhm         > 47 KOhm           50Hz - 400Hz         —         40Hz - 220Hz         40Hz - 220Hz           50Hz - 400Hz         —         0 - 12 dB         15Hz - 50Hz           50Hz - 400Hz         —         —         —           60 - 12 dB         —         —         —           60 - 12 dB         —         —         —	/atta RMS into 4 Ohm mono bridged	2×360W	1	T	2 x 250W+1 x 750W(10hm)	
o         > 104 dB         > 104 dB         > 104 dB           < 0,05 %	requency Response	10Hz - 50KHz	10Hz - 300Hz	10Hz - 150Hz	1CH-4CH 10Hz - 50KHz 5CH 10Hz - 150Hz	
Coulon	ignal-to-Noise Ratio	> 104 dB	> 104 dB	> 104 dB	> 104 dB	
0,2-6 Volt	HD&N	< 0,05 %	< 0,10 %	< 0,10 %	< 0,05 %	
SOHz - 400Hz   SOHz - 400Hz   SOHz - 400Hz   SOHz - 400Hz     SOHz - 400Hz   A0Hz - 220Hz   A0Hz - 220Hz     SOHz - 400Hz   SOHz - 400Hz   SOHz - 400Hz     SOHz - 400Hz   SOHz - 400Hz     SOHz - 400Hz   SOHz - 400Hz     SOHz - 400Hz   SOHz - 400Hz     SOHz - 400Hz   SOHz - 400Hz     SOHz - 400Hz   Soundation     SOHZ - 400Hz   Sound	put Sensitivity	0,2-6 Volt	0,2-6 Volt	0,2-6 Volt	0.2 - 6 Volt	
Fohz - 400Hz	put Impedance	> 47 kOhm	> 47 kOhm	> 47 kOhm	> 47 kOhm	
SOHz - 400Hz   SOHz - 220Hz   A0Hz - 220Hz	Over CH1 & CH2		P			
Hiter	ariable High Pass	50Hz - 400Hz	N.	I	50Hz - 4KHz	
Ilter	ariable Low Pass		40Hz - 220Hz	40Hz - 220Hz		
15Hz - 50Hz	ass-Boost @ 45Hz	1	0 - 12 dB	0 - 12 dB	1	
50Hz - 400Hz       —         50Hz - 400Hz       —         0 -6- 12dB       —         —       —         —       —         —       —         —       —         2 x 40 A       5 x 35 A         (External fuse)         2 31x54       231x54         2 31x54       231x54         403       442	ariable Subsonic Filter	4	15Hz - 50Hz	15Hz-50Hz	1	
50Hz-400Hz       —         50Hz-400Hz       —         0-6-12dB       —         —       —         —       —         —       —         2 x 40 A       5 x 35 A       (External fuse)         2 x 40 A       5 x 35 A       (External fuse)         angth       403       442       500	Over CH3 & CH4					
50Hz - 400Hz       —         0-6-12dB       —         —       —         —       —         —       —         2 x 40 A       5 x 35 A       (External fuse)         2 x 40 A       5 x 35 A       (External fuse)         2 31x54       231x54       231x54         403       442       500	ariable High Pass	50Hz - 400Hz		1	50Hz - 150Hz	
0-6-12dB	ariable Low Pass	50Hz - 400Hz	Ę,	t	250Hz - 4KHz	
	ass-Boost @ 45Hz	0 -6- 12dB		Į.	Ď.	
-	Over CH5					
Contract	rriable High Pass	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			4	
2 x 40 A 5 x 35 A (External fuse)  442 500	ariable Low Pass	a ,	f	Ľ	30Hz - 150Hz	
2 x 40 A       5 x 35 A       (External fuse)         231x54       231x54       231x54         403       442       500	ass-Boost @ 45Hz	1			0 - 12dB	
231x54 231x54 231x54 403 442 500	nses	2×40A	5 x 35 A	(External fuse)	1×100A	
403 442 500	imensions in mm width x height	231x54	231x54	231x54	231x54	
	imensions in mm length	403	442	500	421	

# All specifications are subject to chang