



GTHS80

8" AMPLIFIED SUBWOOFER Instruction Manual

*Enjoy it.*

Shaghal Ltd. 2231 Colby Ave, Los Angeles, California 90064

©2016 BLAUPUNKT. All Rights Reserved. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. **WARNING:** This product contains a chemical known to the State of California to cause cancer and reproductive toxicity.

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GTHS80

8" AMPLIFIED SUBWOOFER

USER'S MANUAL

Congratulations on your purchase of a BLAUPUNKT GHTS80 Amplified Subwoofer.

It has been designed, engineered and manufactured to bring you the highest level of performance and quality, and will afford you years of listening pleasure. Thank you for making BLAUPUNKT as your choice for car audio entertainment!

With the GTHS80, we're introducing an amplified subwoofer, low enough to easily fit below the seat of your car, this system offers you a quick and easy way to add a high-powered subwoofer system to your audio system.

The integrated amplifier in the GTHS80, both high input (speaker level) and low input (RCA type) input are present, making this a universal solution for use with any head unit or other input source.

For further flexibility in the use of subwoofer, you can control the bass level with the remote controller.

Before installing and using your new amplified subwoofer. Please become familiar with all the information contained in this manual. Please keep this operation manual for further reference.

Don't open or attempt to repair this unit yourself. Dangerous high voltages are present which may result in electric shock. Refer any repairs to a qualified server technician.

To avoid risk of electronic shock or damage to the unit, don't permit any of this equipment to become damp or wet from water or drinks. If this does occur, immediately unplug the power wires and send the product to your local dealer or service center as soon as possible.

If there is smoke or any peculiar odor present during use or if there is damage to any of the component enclosures, immediately unplug the power cord and send the product to your local dealer or server center as soon as possible.

SHOCK HAZARD! Do not open the case of this product. There are dangerous voltages present within the unit. There are no user-serviceable part within the unit.

Specifications

MODEL
8" AMPLIFIED SUBWOOFER GTHS80

8" Slim Woofer
RCA Low Level Input: 0.15~0.55V
High Level Input: 6V
Power And Protection LED
Thermal Short And Overload Protection Circuits
Phase Selector Switch: 0° or 180°
Variable Input Gain Control
Adjustable Input Sensitivity Selector: 0.15V-0.5V
Variable Low Pass Filter: 40-250Hz

Max Power: 300W
RMS Power: 100W
THD: <1%
Signal-to-Noise Ratio: >88dB
Frequency Response: 20Hz ~ 250Hz
Input Sensitivity, High Level: 0.5V
Input Sensitivity, Low Level: 150mV
Fuse Rating: 30A
Dimensions: 13.78" x 8.86" x 2.95" (350mm x 225mm x 75mm)

Included:
GTHS80 x 1 Pc
Remote Controller & it's wire x 1 Set
Power & High Input Wire x 1pc
Mounting Iron x 2pcs
M5x8 Mounting Screw x 4pcs
M4x20 Mounting Screw x 4pcs
M3x10 Mounting Screw x 2pcs
User Manual x 1pc

All specifications subject to change without notice.

Protection Circuitry

Will activate if any of the following occur:
a). Input overload b). Short circuit c). Extremely high temperatures
If any of these conditions are detected, the amplifier will go into a self-preservation mode, and the PROTECT LED on the control panel will glow in RED color.

What should I do if the POWER STATUS LED turns RED?
If you observe it is RED, please check the system carefully to determine what has caused the protection circuit to engage.

To reset the amplified subwoofer when it is in PROTECT mode, turn the power off to the system (usually by turning off the head unit or other signal source which feeds the amplifier) and then turn it on again.

If the internal amplifier has shut down due to the thermal overload, you should first allow it to cool down before restarting. If the shut down was due to either an input overload or a short circuit, be sure to correct these conditions before attempting to power up the subwoofer again.

Installation precautions

Before you drill or cut any holes, investigate your car's layout very carefully. Take special care when you work near the gas tank, fuel lines, hydraulic lines and electrical wiring. Never operate the subwoofer when it is unmounted. Attach all audio system components securely within the amplifier to prevent damage, especially in an accident. Do not mount this product so that wire connections are unprotected, in a pinched condition, in contact with any metal surfaces in your vehicle, or likely to be damaged by nearby objects.

Before making or breaking power connections in your system, disconnected the vehicle battery. Confirm that your head unit or other equipment is turned off while connecting the input jacks and speaker terminals.

If you need to replace the power fuse, replace it only with a fuse identical to that supplied with the product. Using a fuse of a different type or rating may result in damage to your audio system or your amplifier which is not covered by the manufacturer's warranty.

Fuses

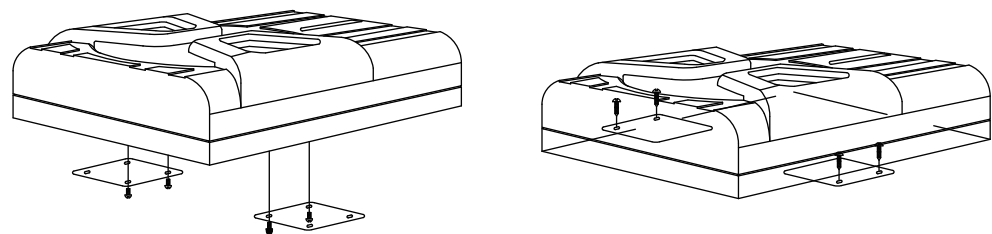
Power fuses protect both the amplifier and the electrical system of your car from fault conditions. If you must replace a fuse in your GHTS80 amplified subwoofer, use a fuse of exactly the same type and rating. Using a different type or rating of fuse may result in damage to your amp or vehicle or cause a fire.

Don't misuse the level control

Don't mistake the input level control for a volume control! It is designed ONLY to match the output level of your audio source to the input level of your subwoofer. Don't adjust this input level to maximum unless your input level requires it. Ignoring these instructions will result in an input overload to the amplifier in the subwoofer, and excessive audio distortion. It can also cause the protection circuit to engage.

Mounting the subwoofer

Find a suitable location in the vehicle in which to mount the subwoofer. A typical location is under seat.



Make sure there is sufficient air circulation around the intended mounting location. Position the subwoofer enclosure where you wish to install it. Make some small marks to identify the position and remove the unit.

We advise installation methods, as follows:

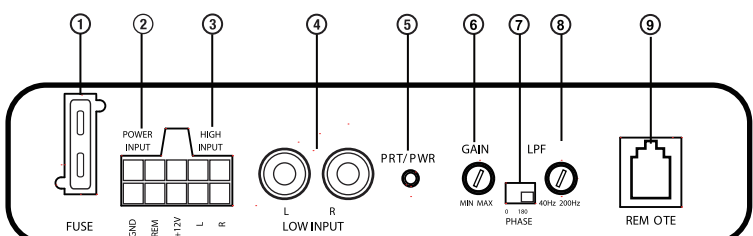
1. Thoroughly clean the area you plan to attach the subwoofer, using a vacuum cleaner.
 2. Using mounting screws provided, attach the mounting irons to enclosure.
 3. Using mounting screws provided, attach the mounting surface.
- Before you drill or cut any holes, investigate your car's layout very carefully. Take special care when you work near the gas tank, fuel lines, hydraulic lines and electrical wiring.

Connecting the subwoofer

Before doing any wiring, look through this manual and identify the diagrams to follow for power, input and speaker connections for your particular installation. Be sure you understand all the connections before you proceed.

1. Connect the ground terminal to the closest point on the chassis of the vehicle. Keep this ground wire to less than 39" (100cm) in length. Use 8 gauge (or heavier) wire.
2. Connect the remote terminal to the remote output of the head unit using 16 gauge (or heavier) wire.
3. Connect an empty fuse holder within 18"(45cm) of the car battery, and run 8 gauge (or heavier) cable from this fuse to the amplifier location.
4. Check that the fuse holder is empty. Then connect the fuse holder to the "BATT+" connection on the amplifier.
5. Connect all line inputs and outputs (if used) using high-quality cables. Connect all speakers, following the diagrams in this manual. Be sure to observe proper polarity to avoid audio phase problems.
6. Insert fuse into the battery fuse holder.
7. Recheck all connections before powering up the subwoofer.
8. Set all level controls to minimum position, and set all crossover controls/switches to the desired frequency points.
9. Power up the head unit and the subwoofer. Then set the volume control on the head unit to about 3/4 volume, and adjust the subwoofer's input level controls to just below the level of distortion.
10. Further fine tuning of the various controls may be necessary to obtain best results.

Panel Controls and Features



1. Fuse

The fuse provides protection for the circuitry. It is rated at 30A. Do not use a fuse that has a different value and NEVER replace the fuse with a wire or coin.

2. Power Input

3. High Input

If your head unit doesn't have RCA outputs, you can use the speaker outputs for the audio source for the GTHS80. Use cable and wire harnesses and connect the outputs properly as shown in the connection diagram in the manual.

4. Low Input

Low Input are the recommended method to connect the audio signal to the subwoofer if RCA output is present on your head unit or other signal source. (such as a sound processor).

5. Power Status LED

This bi-color LED glows green when power is on and no problems are present. If one of the protection circuits comes on, it will change to be red.

6. GAIN CONTROL

After you have installed your system, turn this control to minium. Turn the head unit on (and the subwoofer will turn on via the remote connection). Turn the head unit volume to about 2/3 full level. Slowly turn up the subwoofer input to gain control of distortion. Then reduce the level until the distortion is completely gone. Leave the control at this setting.

7. Phase Switch

Use this switch to help compensate for time alignment problems in the system. Such problems usually result from having the subwoofer at a different distance from the listener than the other speakers in the system.

8. Low Pass Filter

This control allows you to set the frequency range you want the subwoofer amplifier to receive. The subwoofer will reproduce all sound BELOW the frequency you set. If the rest of your system is weak on the mids, you may wish to set this control relatively high. If the midrange is well covered by the rest of your system, you will probably want the subwoofer to only receive lower frequency signal.

9. Remote Level Control Port

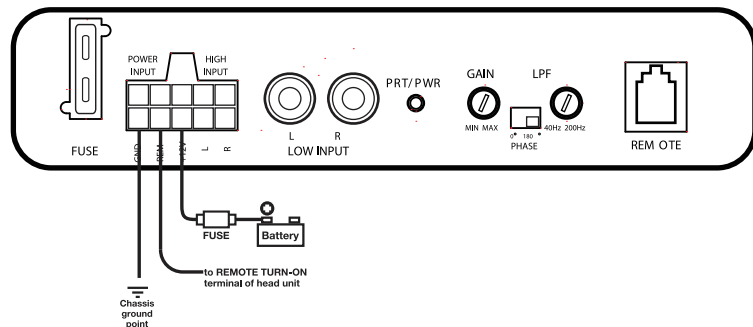
Remote bass level control to control the volume level of the subwoofer independently.

Power Connection

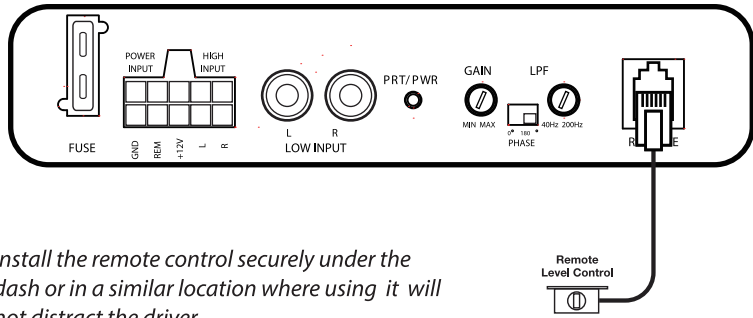
Connect the ground terminal to the closest point on the chassis of the vehicle. Keep this ground wire to less than 39" (100 cm) in length. Use 8 gauge (or heavier) wire.

Connect the remote terminal to the remote output of the head unit using 16 gauge (or heavier) wire.

Connect an empty fuse holder within 18" (45 cm) of the car battery, and run 8 gauge (or heavier) cable from this fuse to amplifier location. Then connect the fuse holder to the "BATT+" connection on the subwoofer read panel.



Remote Level Control Connection

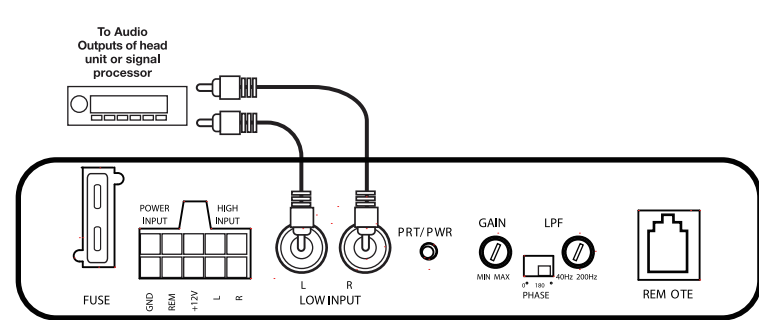


Install the remote control securely under the dash or in a similar location where using it will not distract the driver

Low Level Input Wiring

Low-level (RCA) input wiring is preferred for best audio performance. Most trunk or hatchback installations will require a 15- 20 foot RCA cable, while pickup trucks and under-seat installation will be require a 6-12 foot RCA cable. Always use a high-quality cable.

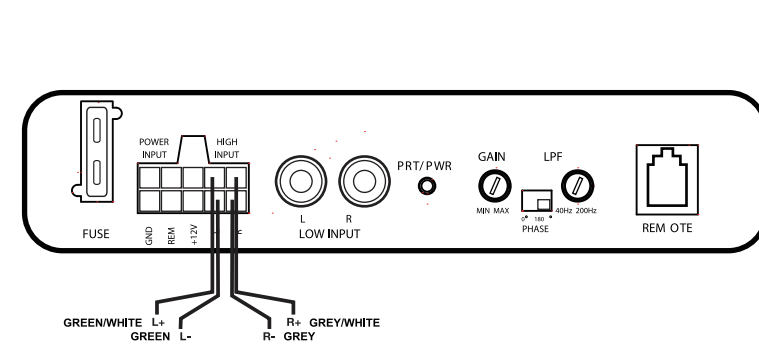
NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!



High Level Input Wiring

The high level input(s) should only use when your receiver lacks RCA outputs. If the RCA outputs are not present, connect the speaker outputs from the receiver to the high level input connector of the amplifier. Be sure to observe polarity to avoid audio phases problems.

NOTE: Do not connect BOTH the high level and low level inputs from your receiver to your amplifier at the same time!



Troubleshooting

If you experience operation or performance problems with this product, compare your installation with the electrical wiring diagram on the previous pages. If problems persist, read the following troubleshooting tips which may help eliminate the problems

SYMPTOM	POSSIBLE REMEDY
Amplifier will not power up.	<p>Check to make sure you have a good ground connection.</p> <p>Check that the Remote Input (Turn-On) has at least 3VDC.</p> <p>Check that there is battery power on the (+) terminal.</p> <p>Check that there is at least 12v.</p> <p>Check all fuses, replace if necessary.</p> <p>Make sure that the Protection LED is not illuminated. If it is lit, shut off the amplifier briefly, and then repower it.</p>
Protection LED comes on when amplifier is powered up.	<p>Turn down the volume control on the head unit to prevent overdriving.</p> <p>Reset the amplifier. If the Protection LED still comes on, then the amplifier is faulty and needs servicing.</p>
No output.	<p>Check that all fuses are OK.</p> <p>Check that unit is properly grounded.</p> <p>Check that the Remote Input (Turn-On) has at least 3VDC.</p> <p>Check that the RCA audio cables are plugged into the proper inputs.</p> <p>Check all speaker wiring.</p>
Low output.	<p>Reset the Level Control.</p> <p>Check the Crossover Control settings.</p>
High hiss in the sound.	<p>Disconnect all RCA inputs to the power sub's control panel. If the hiss disappears, then plug in the component driving the amplifier and unplug its inputs. If the hiss disappears at this point, go on until the faulty/noisy component is found.</p> <p>It is best to set the amplifier's input level control as low as possible. The best subjective signal-to-noise ratio is achieved in this manner. Try to set the head unit as high as possible (without distortion) and the amp input level as low as possible.</p>
Squealing noise is present.	<p>Check for improperly grounded RCA interconnects.</p>
Distorted sound.	<p>Check that the Input Level Control is set to match the signal level of the head unit. Always try to set the Input Level as low as possible.</p> <p>Check that all crossover frequencies are properly set.</p> <p>Check for short circuits on the speaker leads.</p>
Amplifier gets very hot.	<p>Check that the minimum speaker impedance for the amp model is correct.</p> <p>Check that there is good air circulation around the amp. In some applications, it may be necessary to add and external cooling fan.</p>
Engine noise (static type)	<p>This is usually caused by poor quality RCA cables, which can pick up radiated noise. Use only the best quality cables, and route them away from power cables.</p>
Engine noise (alternator whine)	<p>Check that the RCA grounds are not shorted to the vehicle chassis.</p> <p>Check that the head unit is properly grounded.</p>



WARNING

DO NOT PERFORM ACTIONS THAT WILL DISTRACT YOU FROM DRIVING YOUR VEHICLE SAFELY. Any function that requires prolong attention should only be performed after coming to a complete stop. Only park vehicle in a safe location before trying use perform these function, failure to do so may result in an accident.

MAINTAIN VOLUME AT A LEVEL THAT DOES NOT PREVENT YOU FROM HEARING OUTSIDE NOISE WHILE DRIVING. Failure to do so may result in an accident.

DO NOT DISASSEMBLE OR MODIFY. Doing so may result in an accident, fire, or electrical shock.

ONLY USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS. Use on products other than applications designed by BLAUPUNKT may result in a fire, electric shock, or other injury.

USE THE CORRECT AMPERE RATING WHEN REPLACING FUSES. Failure to do so may result in fire or electric shock.

DO NOT BLOCK VENTS OR RADIATOR PANELS. Doing may cause the product to overheat and result in a fire.

MAKE THE CORRECT CONNECTIONS. Failure to make proper connections may result in a fire or product damage.

USE ONLY IN CARS WITH 12 VOLT NEGATIVE GROUND. (check with your BLAUPUNKT dealer if you are uncertain) Failure to do so may result in a fire, electric shock, or accident.

BEFORE WIRING, DISCONNECT THE CABLE FROM THE BATTERY'S NEGATIVE TERMINAL. Failure to do so may result in an electrical shock or injury due to an electrical short.



CAUTION

HALT USE IMMEDIATELY IF A PROBLEM APPEARS. Failure to do so may cause personal injury or damage to the BLAUPUNKT product.

HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS. The wiring and installation of the BLAUPUNKT unit requires special technology skill and experience. To ensure safety, always contact the dealer where you purchased this product to have the work done.

USE SPECIFIED ACCESSORY PARTS AND INSTALL THEM SECURELY. Be sure to use only the specified accessory parts. Use of other than designated parts may damage this unit internally or may not securely install the unit place. This may cause parts to become loose resulting in hazards or product failure.

ARRANGE THE WIRING SO IT IS NOT CRIMPED OR PINCHED BY A SHARP METAL EDGE. Rout the cables and wiring away from moving parts (like the seat rails) or sharp or pointed edges. This will prevent crimping and damage to the wiring. If wiring passes through a hole in metal, use a rubber grommet to prevent the wire's insulation from being cut by the metal edge of the hole.

DO NOT INSTALL IN LOCATIONS WITH HIGH MOISTURE OR DUST. Avoid installing the BLAUPUNKT unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

DO NOT USE BOLTS OR NUTS IN THE BRAKE OR STEERING SYSTEMS TO MAKE GROUND CONNECTIONS. Bolts or nuts used for the brake or steering systems (or any other safety-related system), or tanks should NEVER be used for installations or ground connections. Using such parts could disable control of the vehicle and cause fire etc.