

# **VEVOR<sup>®</sup>**

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# **UNDER SEAT CAR SUBWOOFER USER MANUAL**

We continue to be committed to provide you tools with competitive price.

"Save Half", "Half Price" or any other similar expressions used by us only represents an estimate of savings you might benefit from buying certain tools with us compared to the major top brands and does not necessarily mean to cover all categories of tools offered by us. You are kindly reminded to verify carefully when you are placing an order with us if you are actually saving half in comparison with the top major brands.

# VEVOR<sup>®</sup>

## Under Seat Car Subwoofer

MODEL: YL-802C, YL-803C, YL-805C, YL-813, YL-1012C, YL-105C,  
YL-1013, YL-106Z



<Picture Only For Reference >

### NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.



**WARNING:** Read and understand this entire manual before operating or servicing this product. Failure to follow these warnings and instructions can cause personal injury or damage to valuable property.



**FCC Information:**

**CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment!

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1) This product may cause harmful interference.
- 2) This product must accept any interference received, including interference that may cause undesired operation.

**WARNING:** Changes or modifications to this product not expressly approved by the party responsible for compliance could void the user's authority to operate the product.

**Note:** This product has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules, These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This product generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the distance between the product and receiver.
- Connect the product to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.



### **CORRECT DISPOSAL**

This product is subject to the provision of European Directive 2012/19/EC. The symbol showing a wheeled bin crossed through indicates that the product requires separate refuse collection in the European Union. This applies to the product and all accessories marked with this symbol. Products marked as such may not be discarded with normal domestic waste, but must be taken to a collection point for recycling electrical and electronic devices

## **Safety Warning**

### **PRACTICE SAFE SOUND**

**Continuous exposure to sound pressure levels over 100dB may cause permanent hearing loss. High powered auto sound systems may produce sound pressure levels well over 130dB. Use common sense and practice safe sound.**

- To prevent injury and damage to the unit, please read and follow the instructions in this manual. We want you to enjoy this system, not get a headache.
- If you feel unsure about installing this system yourself, have it installed by a qualified technician.
- Before installation, disconnect the battery negative (-) terminal to prevent damage to the unit, fire and/or possible injury.

## **SAVE THESE INSTRUCTIONS**

## **INSTALLATION CONSIDERATIONS**



### **CAUTION**

The following is a list of tools needed for installation:

This section focuses on some of the vehicle considerations for installing your new powered loaded enclosure. Preplanning your system layout and best wiring routes will save installation time. When deciding on the layout of your new system, be sure that each component will be easily accessible for making adjustments. If you feel unsure about installing this system yourself, have it installed by a qualified technician.

1. Be sure to carefully read and understand the instructions before attempting to install the unit.
2. For safety, disconnect the negative lead from the battery prior to beginning the installation.
3. For easier assembly, we suggest you run all wires prior to mounting your unit in place.
4. Route all of the RCA cables close together and away from any high current wires.
5. Use high quality connectors for a reliable installation and to minimize signal or power loss.
6. Think before you drill! Be careful not to cut or drill into gas tanks, fuel lines, brake or hydraulic lines, vacuum lines or electrical wiring when working on any vehicle.
7. Never run wires underneath the vehicle. Running the wires inside the vehicle provides the best protection.
8. Avoid running wires over or through sharp edges. Use rubber or plastic grommets to protect any wires routed through metal, especially the firewall.
9. ALWAYS protect the battery and electrical system from damage with proper fusing. install the appropriate fuse holder and fuse on the +12V power wire within 18" of the battery terminal.
10. When grounding to the chassis of the vehicle, scrape all paint from the metal to ensure a good, clean ground connection. Grounding connections should be as short as possible and always be connected to metal that is welded to the main body, or chassis, of the vehicle. Seat belt bolts should never be used for connecting to ground.
11. If the product is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
12. The product is not a toy, children shall not play with the product.
13. **Product surfaces are liable to get hot during use, in order to avoid a hazard, please wait for the product to cool down before contacting it.**

## MOUNTING LOCATIONS

Trunk or Passenger Compartment Mounting Choose a structurally sound location to mount your powered loaded enclosure. Mount the enclosure in such a manner

that the amplifier has a minimum of 1”(2.54cm) of air gap around the amplifier's heat sink to provide proper cooling to ensure optimum performance of the amplifier is strongly recommended.

## BATTERY AND CHARGING

Amplifiers will put an increased load on the vehicle's battery and charging system. We recommend checking your alternator and battery condition to ensure that the electrical system has enough capacity to handle the increased load of your stereo system. Stock electrical systems which are in good condition should be able to handle the extra load of any Prime Series amplifier without problems, although battery and alternator life can be reduced slightly. To maximize the performance of your amplifier, we suggest the use of a heavy duty battery and an energy storage capacitor.

## WIRING THE SYSTEM

### CAUTION

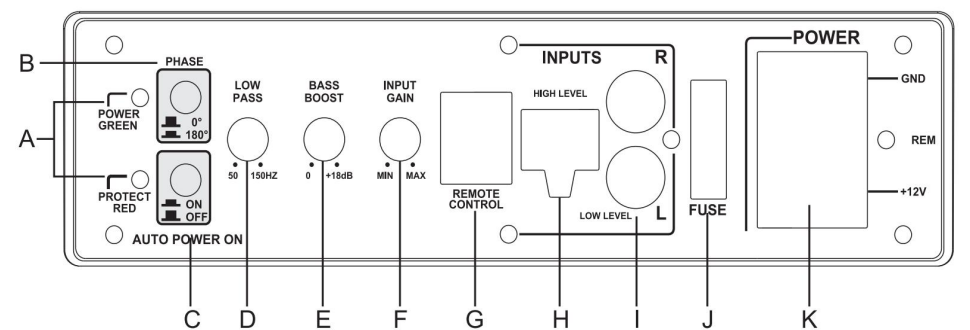
- Before installation, disconnect the battery negative (-) terminal to prevent damage to the unit fire and/or possible injury.
- Avoid running power wires near the low level input cables, antenna, power leads, sensitive equipment or harnesses. The power wires carry substantial current and could induce noise into the audio system.

## SPECIFICATIONS

Model	RMS power	Signal-to-noise ratio	Frequency response	Subwoofer
YL-802C	120W	>90%	50-150Hz	8"
YL-803C	150W	>90%	50-150Hz	8"
YL-805C	200W	>90%	50-150Hz	8"
YL-813	400W	>90%	50-150Hz	8"
YL-1012C	120W	>90%	50-150Hz	10"
YL-105C	150W	>90%	50-150Hz	10"

<b>YL-1013</b>	200W	>90%	50-150Hz	10"
<b>YL-106Z</b>	220W	>90%	50-150Hz	10"

## PANEL CONTROLS AND FEATURES



### A. POWER STATUS LED

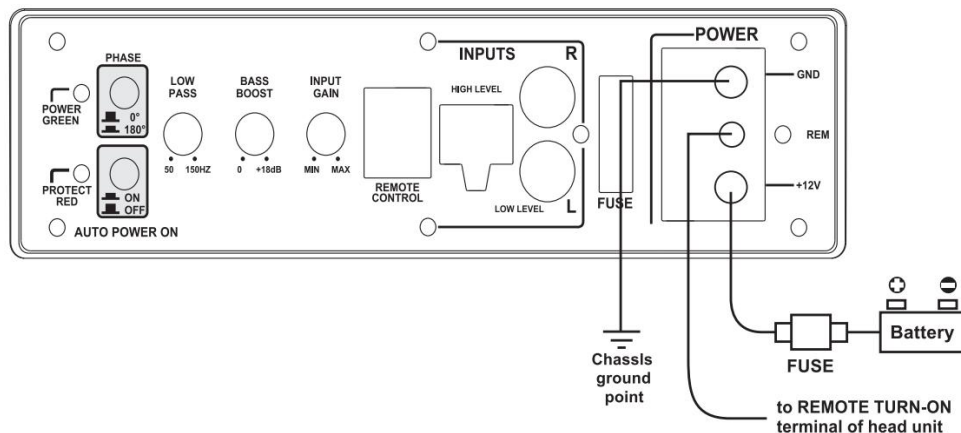
This bio-color LED glows green when power is on and no problems are present. If one of the protection circuit comes on, it will change to red.

### B. PHASE SHIFT

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.

### C. AUTO POWER ON

The AUTO POWER ON(ON/OFF) is for high level (speaker-level)connections. When the switch is in the "ON" position, the subwoofer AUTO POWER ON when there is signal input.If the amplifier detected no signal input, the amplifier will auto turn off. If you prefer to use the remote turn on/off connection, the switch is in the OFF position.



## D. LOW PASS FILTER

This control permits you adjust the frequency range you want the subwoofer amplifier to receive. The subwoofer will reproduce all sound **BELOW** the frequency you set.

**Note: The low pass filter frequency can be higher or lower than the standard. There have +/-20% tolerance.**

## E. BASS BOOST

The BASS BOOST feature will increase the sound level in the bass frequencies.

## F. INPUT GAIN CONTROL

After you have installed your system, turn this control to minimum.

Turn the head unit on (and the subwoofer will turn on via the remote connection).

Turn the head unit volume to about 1/2 full level.

Slowly turn up the subwoofer input gain control until you hear a small amount of distortion. Then reduce the level until the distortion is completely gone. Level the control at this setting

## G. REMOTE LEVEL CONTROL

Attach the included remote level control to control the volume level of the subwoofer independently.

## **H. HIGH LEVEL (speaker low)INPUTS**

If your head unit does not have RCA outputs you can use the speaker outputs for the audio source for the subwoofer. Use the supplied cable and wire harness and connect the outputs properly as shown in the connection diagram in this manual

## **I. LOW LEVEL RCA INPUTS**

Low level inputs are the recommended way to introduce the audio signal to the subwoofer if RCA outputs are present on your head unit or other signal source (such as a sound processor)

## **J. FUSE**

Do not use a fuse with a different value and NEVER replace the fuse with a wire or coin.

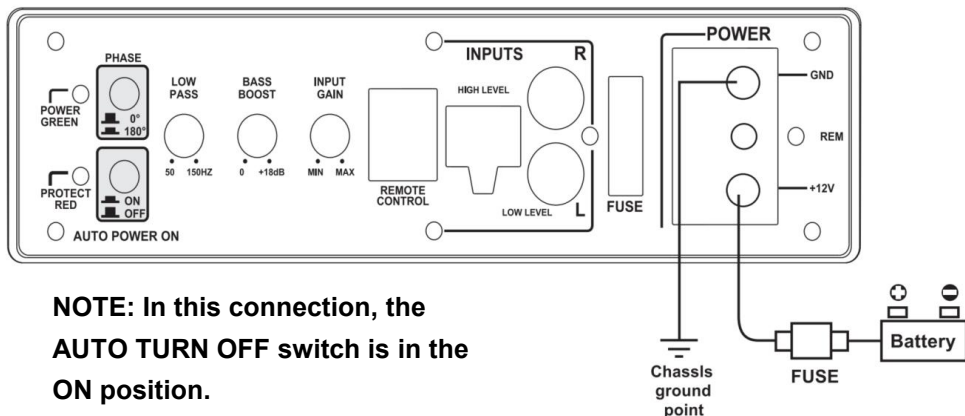
## **K. POWER INPUT TERMINAL**

# **INSTALLATION**

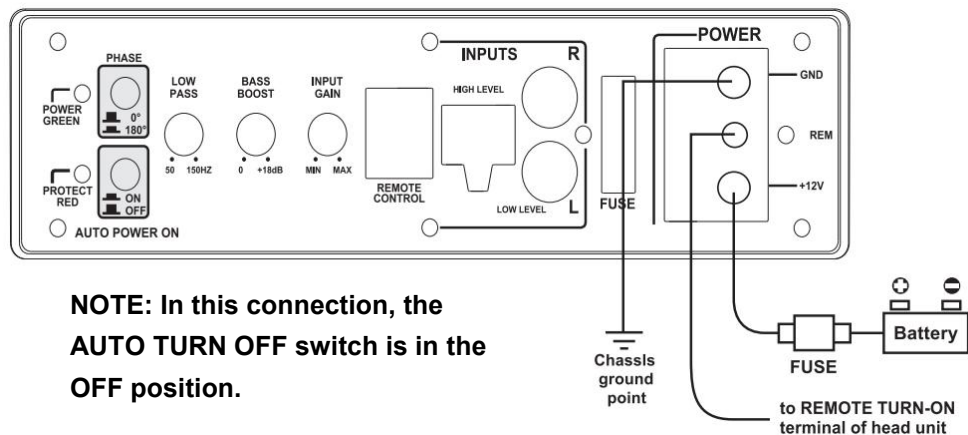
## **1. Plan the wire routing.**

Keep RCA cables close together but isolated from the amplifier's power cables and any high power auto accessories.especially electric motors. This is done to prevent coupling the noise from radiated electrical fields into the audio signal. When feeding the wires through the firewall or any metal barrier, protect them with plastic or rubber grommets to prevent short circuits. Leave the wires long at this point to adjust for a precise fit at a later time.

## **2. Power and grounding Connections**



**Fig 2.1**



**Fig 2.2**

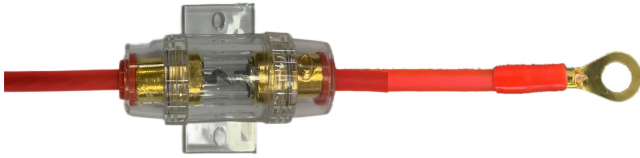
## 2.1 Connect to the power

2.1.1) Trim the RED wire (power cable) within 18" of the battery. Strip 1/2" from the battery end of the power cable and crimp an appropriate size ring terminal to the cable. Use the ring terminal to connect to the battery positive terminal.



**Fig 2.1.1**

2.1.2) Other end insert a inline fuse holder and tighten the setscrew to secure the cable in place.



**Fig 2.1.2 The FUSE connection**

**NOTE: The power cable MUST be fused 18" or less from the vehicle's battery. Install the fuse holder under the hood and ensure connections are watertight.**

2.1.3) Prepare the RED wire (power cable) for attachment to the amplifier by stripping 1/2" of insulation from the end of the wire. insert the bared wire into the +12V terminal of the power connector and tighten the setscrew to secure the cable in place.



**Fig 2.1.3**

## **2.2 Connect to the GROUND**

2.2.1) Prepare the BROWN wire (Ground cable) for attachment to the amplifier by stripping 1/2" of insulation from the end of the wire. Insert the bare wire into the GROUND terminal of the power connector and tighten the set screw to secure the cable in place.



Fig 2.2.1

2.2.2) Prepare the chassis ground by scraping any paint from the metal surface and thoroughly clean the area of all dirt and grease. Strip the other end of the wire and attach a ring connector. Fasten the cable to the chassis using a non-anodized screw and a star washer.

**NOTE: Keep the length of the BROWN wire (Ground) as short as possible. Always less than 30".**

### 3. Remote Level Control Connection

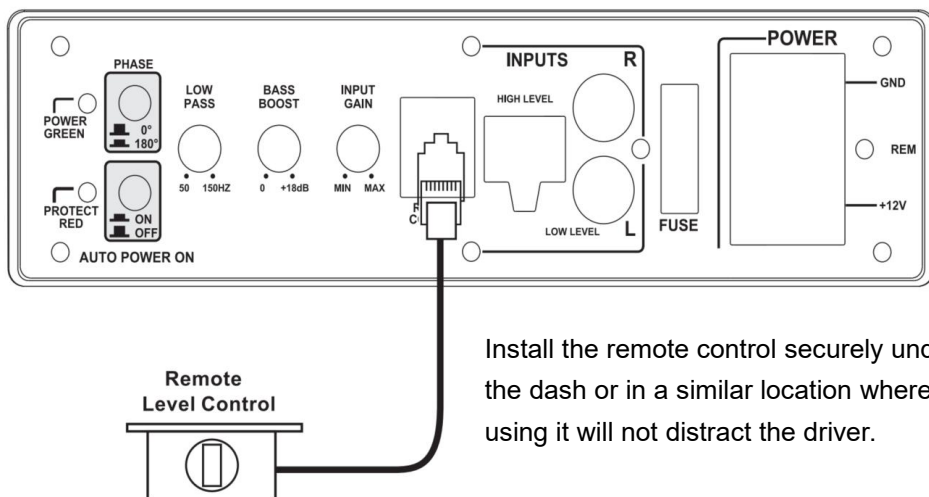


Fig 3.1

## 4. Remote amplifier power switch wiring

4.1) Prepare the Remote turn-on wire (Blue) for attachment to the amplifier by stripping 1/2" of insulation from the end of the wire.

4.2) Insert the bared wire into the REM terminal of the power connector and tighten the set screw to secure the wire in place. Connect the other end of the Remote wire to a switched 12 volt positive source (Usually the car's ACC power cord).

**NOTE: If the source unit does not have this output available, the recommended solution is to wire a mechanical switch in line with a 12 volt source to activate the amplifier.**

## 5. Signal input connection

### Scenario 1: Low Level Input Wiring

**For the case where the receiver has an RCA output.**

Low-level (RCA) input wiring is preferred for best audio performance. Most trunk or hatchback installations will require a 15-20 feet RCA cable, while pickup trucks and under-seat installations will require a 6-12 feet 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.**

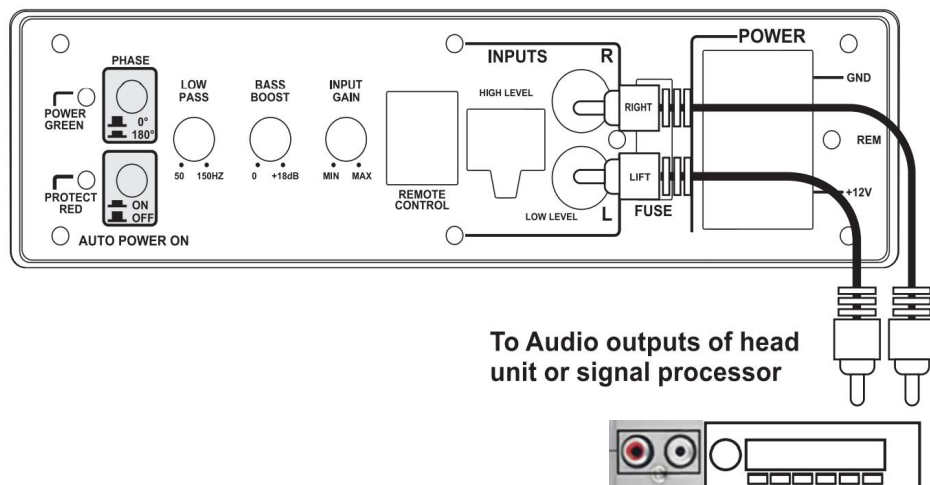
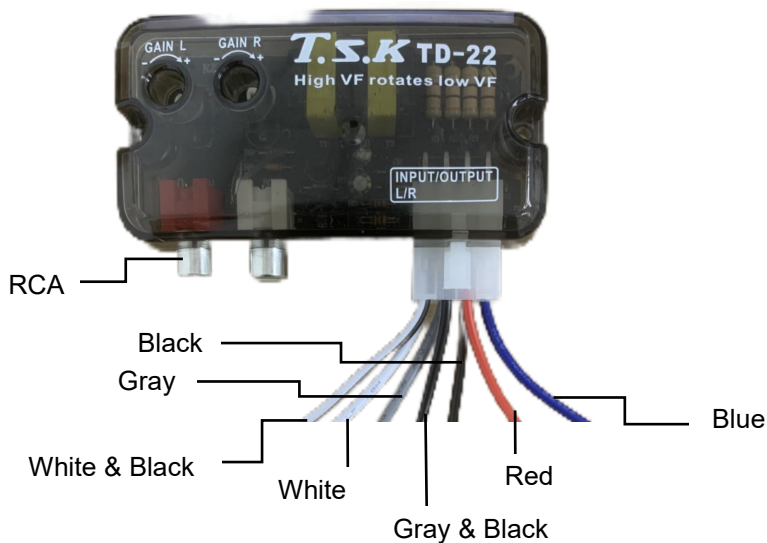


Fig 5.1

**Scenario 2: High level to low level wiring**  
**In the case of receiver without RCA output.**

When your receiver does not have RCA output, first use the high signal to low signal converter to convert the signal.



**Fig 5.2.1**

The overall wiring diagram is as follows

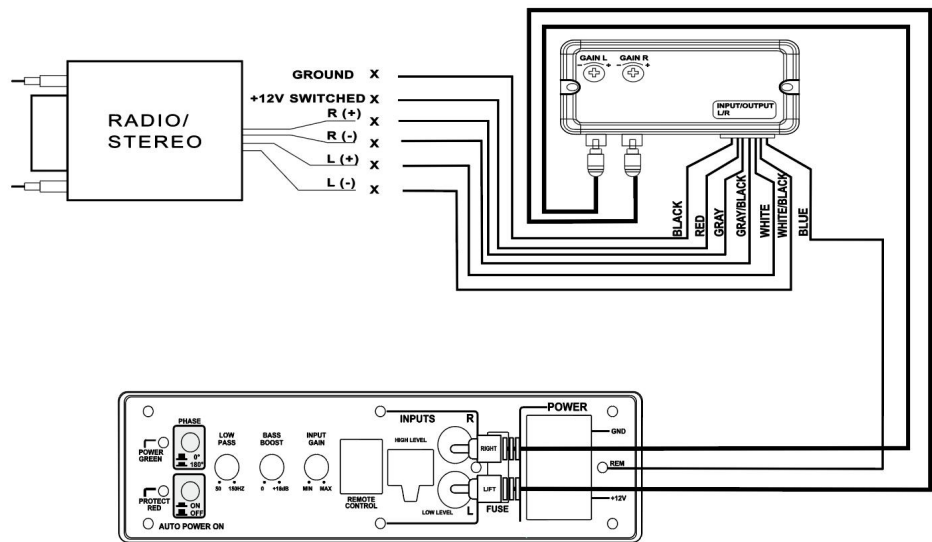


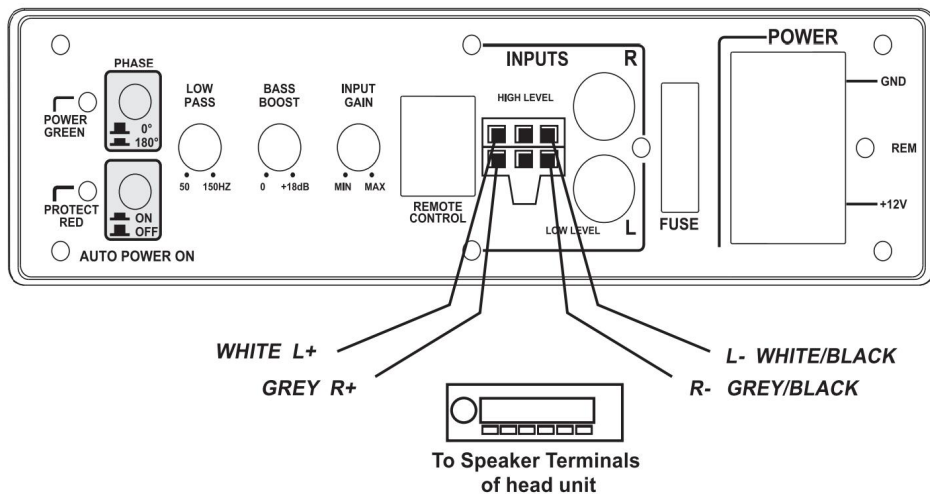
Fig 5.2.2

### Scenario 3: High Level Input Wiring

**In the case of receiver without RCA output , and directly using a high level input.**

The high level input(s) should only be used 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 phase problems.

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



**Fig 5.3**

# PACKAGE CONTENTS



1. Power cable*1	2. Fuse*1	3. Ground cable*1
4. RCA cable*1	5. high signal to low signal converter*1	6. High Level Input cable*1
7. ACC cable*1	8. Remote Level Control*1	9. Tapping screw*4
10. Cross recessed round head screws*8	11. Fixed support*4	12. Forked cold-pressed terminal*2
13. Round cold-pressed terminal*2	14. Insulating sleeve	15. subwoofer
16. Manual	17. Quick guide	

## Trouble Shooting

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

### Symptom Possible Remedy

Amplifier will not power up.	Check to make sure you have a good ground connection. Check that the Remote Input (Turn-On) has at least 5VDC. Check that there is battery power on the (+) terminal. Check that there is at least 12V. Check all fuse, replace if necessary. Make sure that the Protection LED is not illuminated.if it is lit, shut off the amplifier briefly, and then repower it.
Protection LED comes on when amplifier is power up	Check for shod circuits on speaker leads.Turn down the volume control on the head unit to prevent over driving Remote speaker leads, and reset the amplifier. If the Protection LED still comes on, then the amplifier is faulty and needs servicing.
No output	Check that all fuses are OK. Check that unit is properly grounded. Check that the Remote Input( Turn-On) has at least 5VDC. Check that the RCA audio cables are plugged into the proper inputs. Check all speaker wiring.
Low output	Reset the Level Control.Check the Crossover Control settings.

High hiss in the sound	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. 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 amplifier input level as low as possible
Squealing noise is present.	Check for improperly grounded RCA inter connects.
Distorted sound.	Check that the Input Level Control is setting to match the signal level of the head unit. Always try to set the Input level as low possible. Check that all crossover frequencies are properly setting. Check for short circuits on the speaker lead
Amplifier gets very hot.	Check that the minimum speaker impedance for the amp model is correct. Check that there, is good all ready circulation around the amplifier In some applications, it may be necessary to add an extra cooling fan
Engine noise(static type)	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.
Engine noise (alternator whine)	Check that the RCA grounds are not shorted to the vehicle chassis. Check that the head unit is properly grounded.

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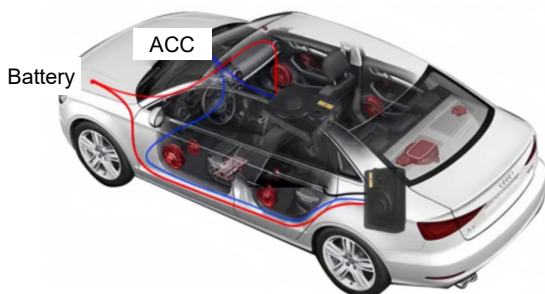
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## QUICK OPERATION INSTALLATION GUIDE



1. The positive electrode of the power supply is connected to the positive electrode of the battery, connect the fuse within 18".
2. REM is connected to the car ACC line (control audio power switch).
3. Ground the ground (polish the paint off the contact point).

1. The RCA connects to the left and right audio output of the host.
2. If the original car host does not have RCA left and right audio output, you can use a high signal to low signal converter to switch, or directly install the high-level signal harness in the attachment.



Under the passenger seat



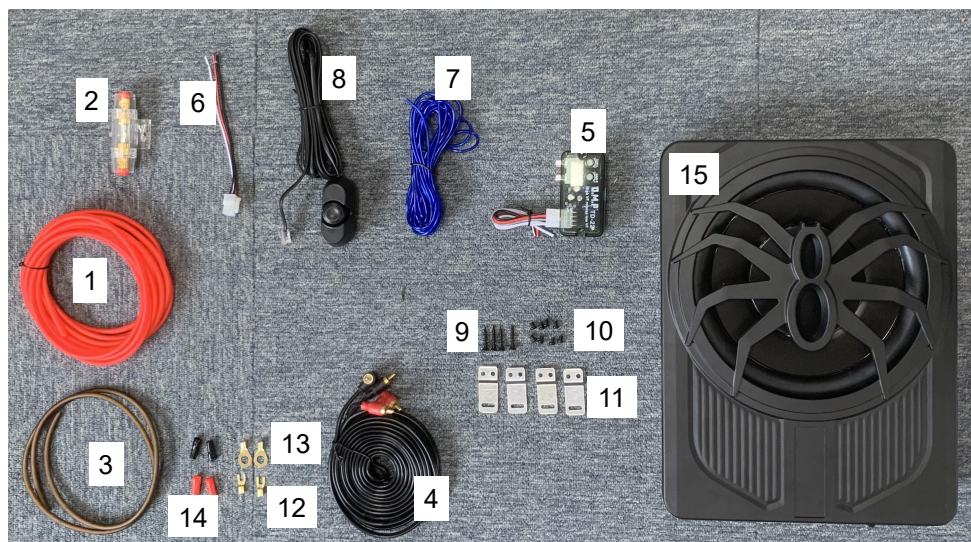
Under the rear seat



Under the rear windshield



Trunk



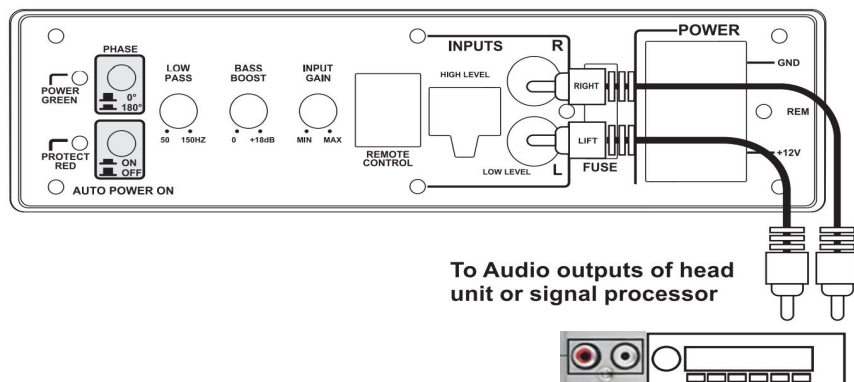
## Parts list

1.Power cable*1	2.Fuse*1	3.Ground cable*1
4.RCA cable*1	5.high signal to low signal converter*1	6.High Level Input cable*1
7.ACC cable*1	8.Remote Level Control*1	9.Tapping screw*4
10.Cross recessed round head screws*8	11.Fixed support*4	12.Forked cold-pressed terminal*2
13.Round cold-pressed terminal*2	14.Insulating sleeve	15.subwoofer
16.Manual	17.Quick guide	

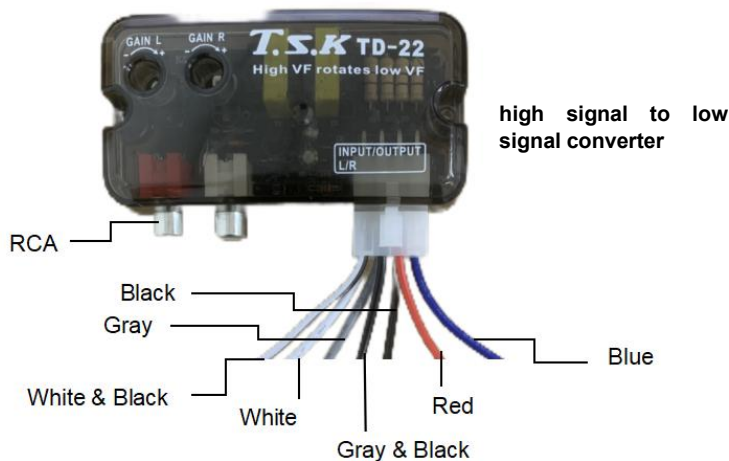
## Signal input connection

### Scenario 1: Low Level Input Wiring

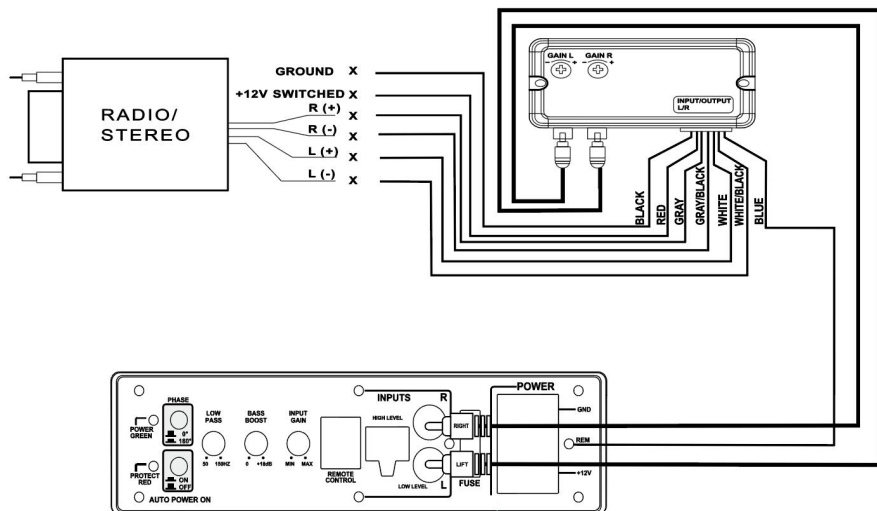
For the case where the receiver has an RCA output.



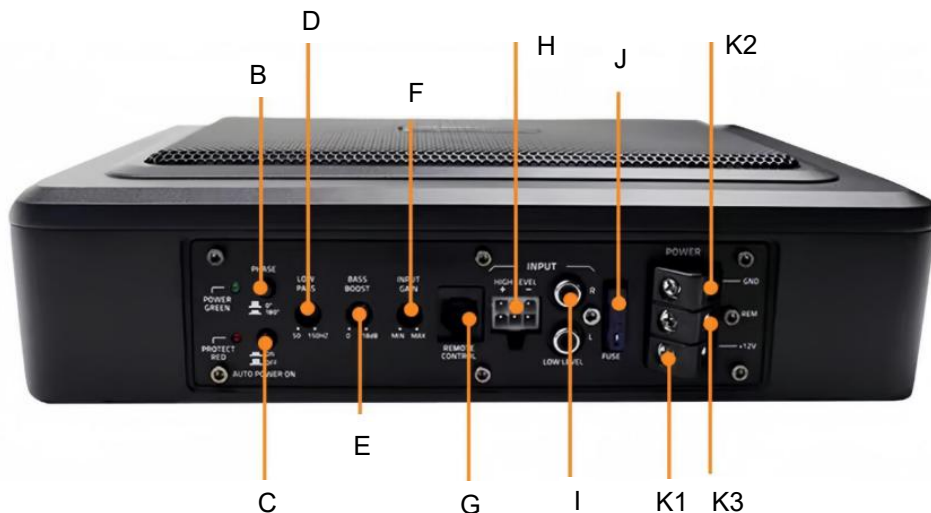
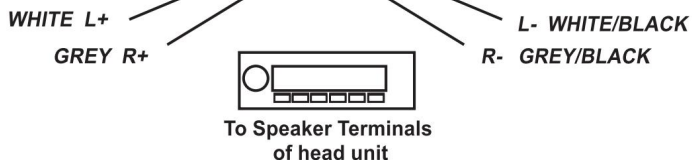
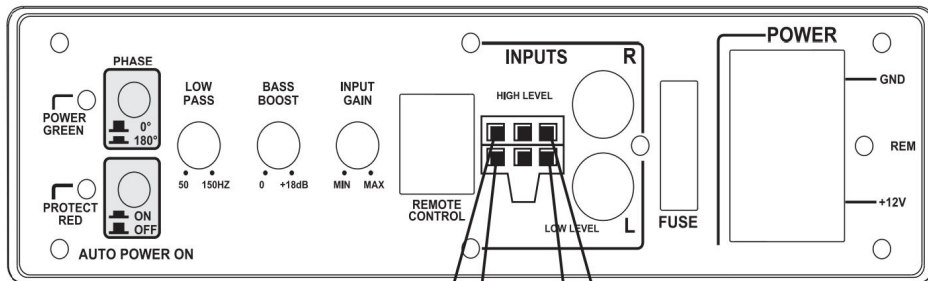
**Scenario 2: High level to low level wiring**  
**In the case of receiver without RCA output.**



Use the high signal to low signal converter to convert the high level signal to the low level signal. Then you can connect cables according to scenario 1.



**Scenario 3: High Level Input Wiring**  
**In the case of receiver without RCA output , and directly using a high level input.**



B. PHASE SWITCH	C.AUTO POWER ON	D.LOW PASS FILTER
E.BASS BOOST	F.INPUT GAIN CONTROL	G.REMOTE LEVEL CONTROL
F.HIGH LEVELINPUTS	I.LOW LEVEL RCA INPUTS	J.FUSE
K1. POWER +12V	K2. GROUND	K3. REM

Setting precautions:

D: Set it to 50

E:Set it to 0-5

F:Do not exceed 50%