



# WS-903

CAR ACTIVE SUBWOOFER

• OWNER'S MANUAL

Please read this manual to maximize your enjoyment of the outstanding performance and feature capabilities of the equipment, then retain the manual for future reference.



COMPACT POWERED 9" SUBWOOFER

## ENGLISH

**Introduction:**

Please read this OWNER'S V.WALKER thoroughly to familiarize yourself with each control and function. We at V.WALKER hope that your new WS-903 will give you many years of listening enjoyment. In case of problems when installing your WS-903, please contact your authorized dealer.

**CAUTION: These controls are for tuning your system. Please consult your authorized Dealer for adjustment.**

<b>WARNING</b>	This symbol means important instructions. Failure to heed them can result in serious injury or death.
<b>CAUTION</b>	This symbol means important instructions. Failure to heed them can result in injury or property damages.

### **WARNING**

- **DO NOT OPERATE ANY FUNCTION THAT TAKES YOUR ATTENTION AWAY FROM SAFELY DRIVING YOUR VEHICLE.** Any function that requires your prolonged attention should only be performed after coming to a complete stop. Always stop the vehicle in a safe location before performing these functions. Failure to do so may result in an accident.
- **KEEP THE VOLUME AT A LEVEL WHERE YOU CAN STILL HEAR OUTSIDE NOISES WHILE DRIVING.** Excessive volume levels that obscure sounds such as emergency vehicle sirens or road warning signals (train crossings, etc.) can be dangerous and may result in an accident. LISTENING AT LOUD VOLUME LEVELS IN A CAR MAY ALSO CAUSE HEARING DAMAGE.
- **DO NOT DISASSEMBLE OR ALTER.** Doing so may result in an accident, fire or electric shock.
- **USE THIS PRODUCT FOR MOBILE 12V APPLICATIONS.** Use for other than its designed application may result in 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 so may cause heat to build up inside and may result in fire.
- **MAKE THE CORRECT CONNECTIONS.** Failure to make the proper connections may result in fire or product damage.
- **USE ONLY IN VEHICLES WITH A 12 VOLT NEGATIVE GROUND.** (Check with your dealer if you are not sure.) Failure to do so may result in fire, etc.
- **BEFORE WIRING, DISCONNECT THE CABLE FROM THE NEGATIVE BATTERY TERMINAL.** Failure to do so may result in electric shock or injury due to electrical shorts.
- **DO NOT ALLOW CABLES TO BECOME ENTANGLED IN SURROUNDING OBJECTS.** Arrange wiring and cables in compliance with the manual to prevent obstructions when driving. Cables or wiring that obstruct or hang up on places such as the steering wheel, gear lever, brake pedals, etc. can be extremely hazardous.
- **DO NOT SPLICE INTO ELECTRICAL CABLES.** Never cut away cable insulation to supply power to other equipment. Doing so will exceed the current carrying capacity of the wire and result in fire or electric shock.
- **DO NOT DAMAGE PIPE OR WIRING WHEN DRILLING HOLES.** When drilling holes in the chassis for installation, take precautions so as not to contact, damage or obstruct pipes, fuel lines, tanks or electrical wiring. Failure to take such precautions may result in fire.
- **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.
- **KEEP SMALL OBJECTS SUCH AS BOLTS OR SCREWS OUT OF THE REACH OF CHILDREN.** Swallowing them may result in serious injury. If swallowed, consult a physician immediately.

## ⚠ CAUTION

- **HALT USE IMMEDIATELY IF A PROBLEM APPEARS.** Failure to do so may cause personal injury or damage to the product. Return it to your authorized dealer or the nearest Service Center for repairing.
- **HAVE THE WIRING AND INSTALLATION DONE BY EXPERTS.** The wiring and installation of this unit requires special technical 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 in 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.** Route 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 unit in locations with high incidence of moisture or dust. Moisture or dust that penetrates into this unit may result in product failure.

## SERVICE CARE

### ◆ IMPORTANT NOTICE

This Amplifier has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules. This equipment generates and uses radio frequency energy, and it must be installed and used properly in accordance with the manufacturer's instructions.

### ◆ For Customers in other Countries IMPORTANT NOTICE

Customers who purchase the product with which this notice is packaged, and who make this purchase in other countries, please contact your dealer for information regarding warranty coverage.

SERIAL NUMBER: \_\_\_\_\_  
 INSTALLATION DATE: \_\_\_\_\_  
 INSTALLATION TECHNICIAN: \_\_\_\_\_  
 PLACE OF PURCHASE: \_\_\_\_\_

### ◆ IMPORTANT

Please record the serial number of your unit in the space provided here and keep it as a permanent record. The serial number plate is located on the rear of the unit.

## SPECIFICATIONS

Sound	
Power Output (RMS)	250 watts
Frequency Response	36~ 350Hz
Woofers	
Diaphragm Size (Nominal)	23cm x 20cm(9" x 8") Subwoofer + 18cm x 5cm(7" x 2") Passive subwoofer X 2
Diaphragm Material	Polypropylene
Surround	Rubber
Amplifier	
Power Output (MAX)	1000 watts
Low Pass Crossover	50~ 150 Hz
Input Sensitivity	0.1V (RCA Input)
	>2V (Speaker Level Input)
Accessories	
Remote Knob	Cable length: 5M
	Adjustment Range: 0 to -20dB

## ACCESSORIES

• Fuse(20A)	1
• Insert power cable	1
• Remote control	1
• Bracket	4
• Screws	8
• Brackets screws	8

### NOTE:

- For product improvement, specifications and design are subject to change without notice.

## INSTALLATION (Fig. 1) & (Fig. 2)

### ⚠ CAUTION

#### ◆ Caution on connection terminals/parts

- Keep electrically conductive objects away from the unit's terminals/parts (power terminals, fuses, speaker input terminals, RCA connectors, etc.). Doing so prevents a possible short circuit and damage to the unit.

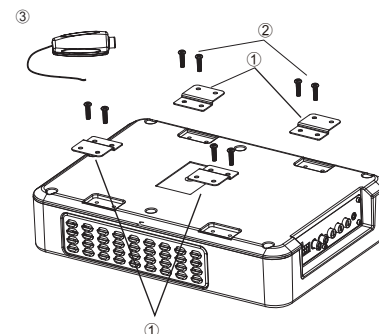
### MOUNTING

1. Attach the included mounting brackets to the WS-903 with the supplied screws. (See to Fig. 1)
2. Once the brackets are mounted to the WS-903. Place the subwoofer in the desired location within the vehicle. Before securing with screws, check to make sure all screws can affix to a structurally solid surface while avoiding vehicle wiring, components, etc. (See Fig. 2)

Note: For securing the mounting brackets to the vehicle, it may be necessary to use longer screws (not included) to accommodate carpet thickness, etc.

### NOTE:

- To securely connect the ground lead, use an already installed screw on the metal part of the vehicle (marked this is a good ground by checking continuity to the battery(-) terminal. As much as possible connect all equipment same ground point. These procedures will help eliminate noise.



- ① Mounting Bracket
- ② Bracket Screws
- ③ Attachment Method Of Remote Bass Level Knob

Fig. 1

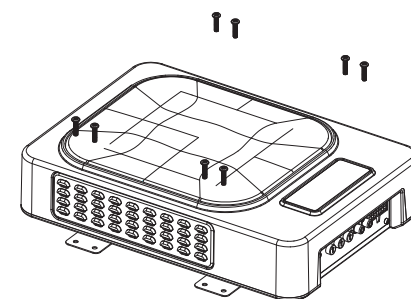


Fig. 2

## CONNECTIONS (Fig. 3)

Before making connections, be sure to turn the power off to all audio components. Connect the red battery lead from the amp directly to the positive (+) terminal of the vehicle's battery. Do not connect this lead to the fuse block.

### CAUTION

#### Caution on connection terminals/parts

- Keep electrically conductive objects away from the unit's terminals/parts (power terminals, fuses, speaker output terminals, RCA connectors, etc.). Doing so prevents a possible short circuit and damage to the unit.

#### To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10 cm (3-15/16") away from the car harness.
- Keep the battery power leads as far away from other leads as possible.
- Connect the ground lead securely to a bare metal spot (remove any paint or grease if necessary) of the car chassis.
- Your dealer knows best about noise prevention measures so consult your dealer for further information.

#### 1 Input/Power Connector

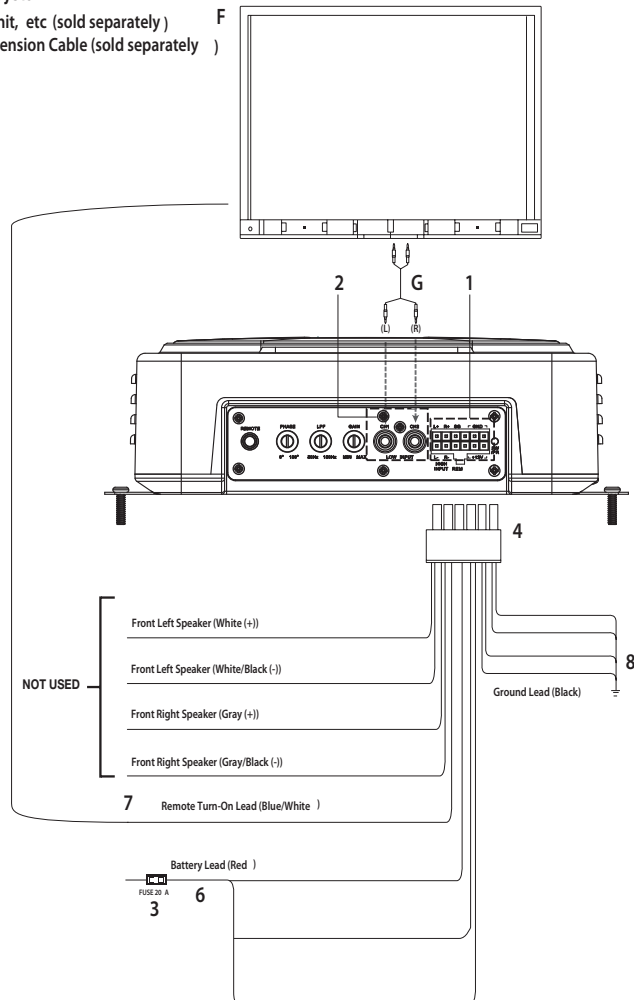
#### 2 RCA Input Jacks

Connect these jacks to the line out leads on your headunit using RCA extension cables (sold separately).

#### RCA Input System

- F Head Unit, etc (sold separately)  
G RCA Extension Cable (sold separately)

Note:  
• Power Mode button must be set to REM (Button Out)



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- 3 Fuse (20A)  
USE ONLY THE CORRECT AMPERE RATING WHEN REPLACING FUSES.  
Failure to do so may result in fire or electric shock.

#### 4 Input/Power Wire Harness

#### 5 Speaker Input Leads

These leads are input leads for use with head units not equipped with preamp outputs. When not using the RCA Line Input connectors, you should connect these wires to the speaker output leads of your head unit. The WS-903 accepts input from high power or standard power head units.

#### Note:

- Do not connect speaker leads together or to chassis ground.
- Use either RCA line level or speaker level inputs. Do not connect both at the same time.

#### 6 Battery Lead (Red)

Connect battery lead directly to BATT + Be sure to add a 20A fuse (sold separately) as close as possible to the battery's (+) terminal.

#### 7 Remote Turn-On Lead (Blue/White)

Connect this lead to the remote turn-on (positive trigger, +) 12V only) lead of your head unit.

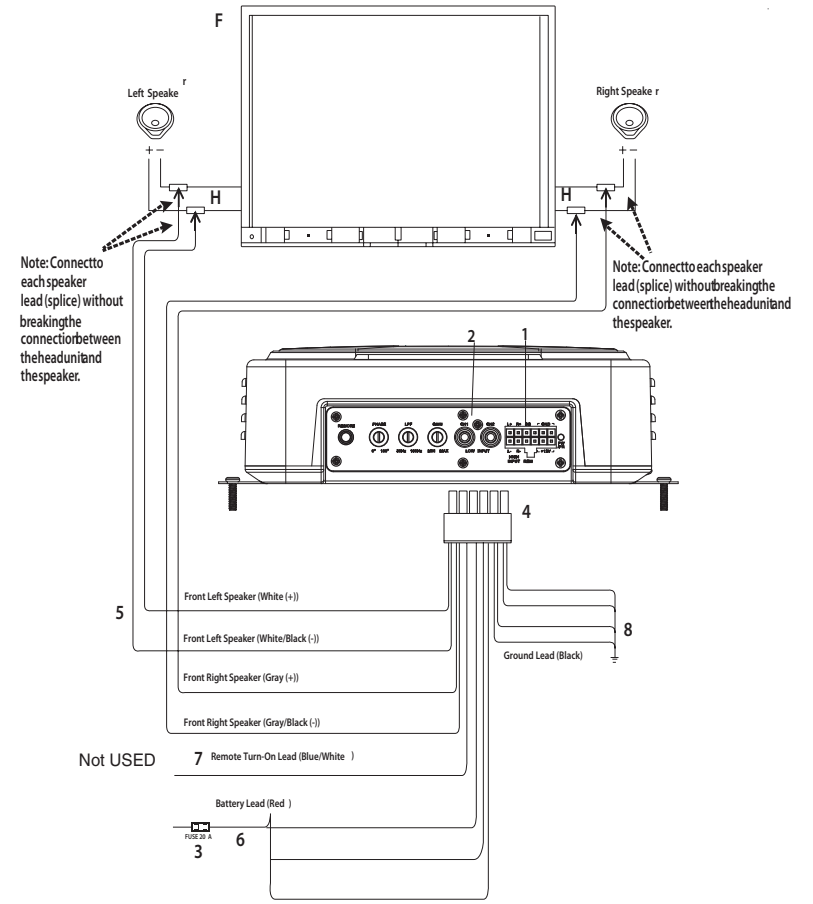
#### Note:

- If using speaker input level signal from the head unit, remote turn-on lead connection is not necessary.

#### 8 Ground Lead (Black)

Connect this lead securely to a clean, bare metal spot on the vehicle's chassis. Verify this point to be a true ground by checking for continuity between that point and the negative (-) terminal of the vehicle's battery. Ground all your audio components to the same point on the chassis to prevent ground loops.

#### Speaker level input system



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