



USER MAMUAL

Model: SW-68F



6x8" Active Aluminum Subwoofer

|| System Equipment ||

Thank you for your purchase, and welcome to Nakamichi!! In order to enjoy the better service from us, please keep your original invoice well and complete the warranty card. You'd better post the copy of the warranty card back to the appointed service agent of Nakamichi, so that you may get more technical support.

ACCESSORY LIST

1.Owner's Manual	1piece	1piece
2.Insert Power Cable	1piece	
3.Remote Control	1piece	
4.Brace	4pieces	
5.Screws	8pieces	
6.Brackets Screws	8pieces	
7.Magic Tape (30x100mm)	2pieces	

SPECIFICATIONS

RMS power	120 watts
THD	1%
Signal-to-noise ratio	60 dB (>55 dB)
Frequency response	50 ~ 150 Hz
Input sensitivity,high level	0.5 ±15% V
Input sensitivity,low level	82 ±15% mV
Low Pass Filter	50 ~ 150 Hz
Bass Boost	0 ±20% dB
Subsonic Filter	0 ±20% Hz
Fuse rating	15A
Subwoofer	6x8 inch , 3ohm x4
Dimensions(LxW xh)mm	LxWxH 280x195x68

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.**

Failure to do so may result in fire, etc. (Check with your dealer if you are not sure.)

- **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.

|| Installation ||

⚠ 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

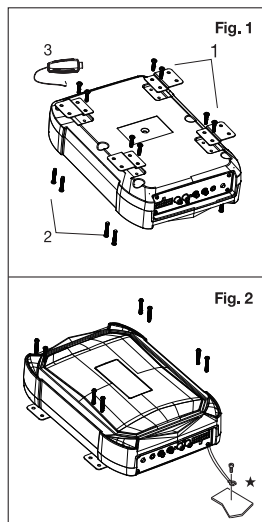
1. Attach the included mounting brackets to the SW-68F with the supplied screws. (at Fig. 1)

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

2. Once the brackets are mounted to the SW-68F. 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. (at 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.
- To secure the groundlead, 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.



Connection

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

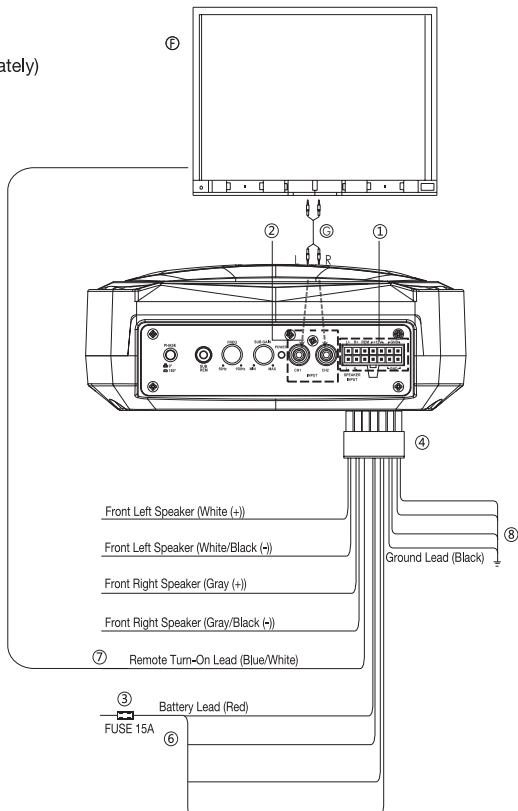
- Keep electrically conductive objects away from the unit's terminals/parts (power terminals, fuses, speaker output terminals, RCA connectors, etc.). Doing so prevents a possible short circuit and damage to the unit.

To prevent external noise from entering the audio system.

- Locate the unit and route the leads at least 10cm (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.

RCA Input System

- Ⓐ Head Unit, etc (sold separately)
- Ⓒ RCA Extension Cable (sold Separately)



Switch setting

⑨Phase switch 0° to 180°

Subwoofer output phase can be set to Subwoofer Normal 0° (Button Out) or Subwoofer Reverse 180° (Button In).

⑩Crossover Frequency Adjustment Knob (LP FILTER)

Use this control to adjust the crossover frequency between 50 to 150Hz.

⑪Input Gain Adjustment Control

Note: If the Remote Bass Level Knob will be connected in your system, make sure to rotate the knob fully clockwise (set to "+") before making the input gain adjustment.

Set the SW-68F input gain to the minimum position. Using a dynamic CD as a source, increase the head unit volume until the output distorts. Then, reduce the volume 1 step (or until the output is no longer distorted). Now, increase the amplifier gain until the sound from the speakers becomes distorted. Reduce the gain slightly so the sound is no longer distorted to achieve the optimum gain setting.

⑫Power Indicator

Indication Color	Status	Solution
Green	Amplifier circuit is normal	
LED is off	Amplifier circuit is abnormal. An electrical short has occurred, or supply current is too high. 15A fuse may be blown.	Turn off the power supply and eliminate the cause (replace necessary). Then turn on the unit and verify that the LED has turned on. If it remains off, turn off, turn off the unit and consult your dealer.
Red	Power supply voltage is too high.	Use the correct power supply voltage.

⑬Remote Gain Adjustment Input

Remote Gain Adjustment Knob Allows the user to adjust the overall bass level of the subwoofer. Turning the remote bass level knob towards (+) increases the overall subwoofer level, while turning the bass level knob towards (-) decreases the overall subwoofer level.

Note: SW-68F can be used without connecting the remote bass level knob. However, overall subwoofer level cannot be adjusted from the listening position.

SW-68F connection panel

