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**Owner's Manuel** 

XC-5000.1 XC-10000.1 XC-3500.2 XC-1000.4 XC-5000.5



## **Before You begin installation**

Your new FOR-X is one of the most rugged, reliable, powerful and best performing amplifier in the world and exemplifies our commitment to excellence in car audio musical reproduction.

Before you begin , you will need tools, supplies and adapters. It is best to make sure you have everything you need before you start.

## **Amplifier Location**

Allow air circulation around the amplifier and never install amplifiers in the engine compartment or on the firewall.

When selecting a location, remember that amplifiers generate heat.

Select a location where air can circulate around the amplifier.

Do not cover the amplifier with carpets or enclose it behind interior trim panels.

Every installation will be a bit different based upon vehicle design, check all locations and placements carefully before making any cuts or connections.

### **Disconnect Battery**

Before you begin, always disconnect the battery negative terminal.

# Important:

If wiring connections are made incorrectly the unit will not operate properly and could be damaged. Follow the installation instructions carefully or have the amplifier installed by an authorized dealer.

## Things to remember when installing FOR-X amplifiers.

The design philosophy of **FORX** car amplifiers and mode of regulation requires that

proper installation and load impedance instructions be adhered to at all times.

Minimum impedance recommended for XC-5000.1 & XC-10000.1 are 10hm or 20hm strapable, for XC-3500.2 and XC-1000.4 is 10hm stereo or 20hm bridged, for XC-5000.5 is CH1-4 ( 20hm srereo or 40hm bridged ) and CH5 is 10hm stable.

FOR-X amplifiers are not equipped with fuses so that proper value of external fuses should be used. The fuse ratings should be sufficient under normal working conditions. However, if the amplifiers are overloaded fuses may blow.

Therefore, please try to avoid operating the amplifiers under these conditions.

1. Mount the amplifiers where air flow is the best.

2. Mount the amplifiers to a solid surface away from vibration, as these amplifiers are heavy and the vibration can damage the amplifiers.

3. Take extreme caution when mounting the amplifiers, so as not to damage the chassis with a drill or screwdriver.

4. Run OAWG wire from the battery, using fuses with 12" of the positive battery terminal.

The fuses are to protect the car and your car audio system from the fire that could be caused by a short circuit.

5. Run OAWG ground wire as short as possible, to the closest chassis ground point.

Be sure to remove the paint around the chassis ground point to provide a more solid electrical connection. 6. Run a 16AWG ( or larger ) wire to the remote turn-on lead of the headunit.

7. Connect the speakers as per wiring diagrams in the manual.

12AWG or larger speaker wire is recommended.

8. Mount remote level control in the car where it can be easily reached from the driver's seat, if desired.

9. Using RCA interconnect cables, connect all line inputs per the wiring diagrams which follow.

If possible, keep rca cables away from the 12V power and ground wire.

10. Set the controls as described on following pages.

### Power, Remote, Ground Connection.



### Power Terminal (+12V)

Before mounting amplifiers, disconnect the negative ( - ) cable from the battery to protect any accidential damage to your awesome amplifiers and audio system.

Amplifiers are designed to use 0 gauge power and ground connection.

Connect the power cables to power terminal + 12V.

All XC series amplifiers do not have built-in fuses so they need external fuse connection.

Connect one end of fuse holder to the power cable going into the amplifiers and the other end of fuse holder to positive battery.

This fuse location will protect the system and the vehicle against the possibility of a short circuit in the power cable.

Be sure to use fuses and fuse holder adequate for the application.

### Ground Terminal (GND)

Locate a secure grounding connection as close to amplifier as possible.

Make sure the location is clean and provides a direct electrical connection to the frame of the vehicle. The ground needs to have as low of a resistance as possible. Connect one end of a short piece of the same size cable as the power cable to the grounding point

or to one of your batteries or battery bank.

Run the other end of 0 gauge cable to the mounting location of the amplifiers for connection to the amplifiers ground terminals and connect the ground cable to the GND ( ground terminal ).

### XC-5000.1 & XC-10000.1 Speaker connection



Caution !!



4 - 20hms

## XC-5000.1 & XC-10000.1 Strapable connection

Strapable connection makes two of same amplifiers linked to 20hm. Strapable connection makes the power double than their each 10hm power. Please read the following connection and diagram carefully to make correct connection.

#### Strapable input connection

Step 1. Connect the Master amplifier to the head-unit and set its output master / input slave switch to output master.

Step 2. Set Slave amplifier output master / input slave switch to input slave.

Step 3. Connect RCA cable from the master to the slave amplifier as shown in the diagram.



#### Strapable speaker connection

- Step 1. Connect speaker cable (+) on master amplifier to subwoofer (+)
- Step 2. Connect speaker cable (+) on slave amplifier to subwoofer (-)
- Step 3. Connect speaker cable (-) on master amplifier to speaker cable (-) on slave amplifier



### **XC-3500.2 Speaker connections**



#### Caution !!

XC-3500.2 Minimum working impedance is 10hm stereo or 20hm bridged. Impedance lower than 1 ohm stereo can damage the amplifier



4 - 2ohms

### **XC-1000.4 Speaker connections**



#### **XC-5000.5 Speaker connections**



## **TROUBLE SHOOTING**

#### NO POWER LED ON, NO OUTPUT

- Check +12V and GND connection
- Check remote signal +12V
- Check the external fuses or built-in.

#### POWER LED ON, NO OUTPUT

- Check source unit for output
- Check input gain control
- Check RCA cable
- Check speaker and wiring for shorts
- Check for damaged speakers

#### NO SOUND ON ONE CHANNEL

- Swap left/right input to check source
- ... If sound swaps too, source or signal cable is bad
- Swap left/right speaker to check speakers
  - ... If sound does not swap, speaker or speaker wiring is bad
  - ... In any case, consult authorized dealer

#### AMPLIFIER GOES IN PROTECTION MODE AT HIGHER GAIN

- Check speaker impedance XC-5000.1 & XC-10000.1 are 1 ohm or 2 ohm strapable.
  XC-3500.2 & XC-1000.4 are 1 ohm stereo or 2 ohm bridged.
  XC-5000.5 is 2 ohm strereo or 4 ohm bridged for CH1-4 and 1 ohm for CH5.
- Check working voltages (9V 16Volts)
- Check speaker wiring for short circuit

#### ENGINE OR ALTERNATOR WHINE NOISE

- Check wiring. make sure RCA cables are not run parallel on same side of vehicle as power cable.
- Check any preamps or black boxes in the signal path between source unit and amplifier
- Make sure ground pin ( shield or outer barrel of RCA cables ) have not lost connection and that source unit has good reference ground.

## SPECIFICATION

Features	XC-5000.1	XC-10000.1	XC-3500.2	XC-1000.4	XC-5000.5
4ohm RMS power	1700W x 1	3800W x 1	1100W x 2	500W x 4	300W x 4 + 1300W x 1
20hm RMS power	2900W x 1	6900W x 1	2100W x 2	800W x 4	500W x 4 + 2400W x 1
1ohm RMS power	5000W x 1	10000W x 1	3500W x 2	1000W x 4	3000W x 1 for CH5
20hm RMS strapable power	10000W x 1	20000W x 1			
40hm RMS bridged power			4200W x 1	1600W x 2	1000W x 2 + 1300W x 1
20hm RMS bridged power			7000W x 1	2000W x 2	
Frequency Response	10Hz - 260Hz	13Hz - 254Hz	20Hz - 25KHz	10Hz - 27KHz	10Hz - 25KHz for CH1-4 10Hz - 260Hz for CH5
Signal to Noise Ratio	97dB <	93dB <	90dB <	95dB <	88dB <
Damping Factor	400dB <	400dB <	300dB <	100dB <	200dB <
Efficiency ( 4 ohm, 100Hz )	95% <	95% <	94% <	95% <	95% <
Input Sensitivity	6V - 0.2V	6V - 0.2V	6V - 0.2V	6V - 0.2V	6V - 0.2V
Subsonic Filter	10Hz - 50Hz	10Hz - 50Hz			10Hz - 50Hz
Phase	0 - 180	0 - 180			
Strappable connection	yes	yes			
Bass Boost	0 - 9dB	0 - 12dB		0 - 18dB	0 - 12dB for CH5
Bass Frequency					20Hz - 80Hz for CH5
Low Pass Filter	35Hz - 250Hz	35Hz - 250Hz	50Hz - 800Hz	50Hz - 800Hz	50Hz - 800Hz for CH3-4 35Hz - 250Hz for CH5
x10 LPF multiply			500Hz - 8KHz	500Hz - 8KHz	500Hz - 8KHz for CH3-4
High Pass Filter			20Hz - 800Hz	20Hz - 800Hz	20Hz - 800Hz for CH1-2 20Hz - 800Hz for CH3-4
x10 HPF multiply			200Hz - 8KHz	200Hz - 8KHz	200Hz - 8KHz for CH3-4
0 Gauge Power & Ground Input	Yes	Yes	Yes	Yes	Yes
Working Voltage	9V-16V	9V-16V	9V-16V	9V-16V	9V-16V
Remote Gain Control	Included ( Clipping indicator )				
Tested Voltage & THD	14.4V & Less than 1% THD				
Dimensions ( 212x65 mm WxH )	450	700	500	450	590