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# ELEMENT

by  *$\mu$*  DIMENSION

## OWNER'S MANUAL

EL Series Car Amplifier

**50W X 2 ch Car Amplifier**  
**Model: EL-A52**

**50W X 4 ch Car Amplifier**  
**Model: EL-A54**

**600W X 1 ch Car Amplifier**  
**Model: EL-D61**

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### EL Series

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## FEATURES

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### Circuitry

100% POWER MOSFETs drove high efficiency switching power supply. And SEPP output stage constructed by real Darlington transistors.

### Pulse Width Modulated Power Supply

The PWM power supplies inside these amplifiers are both high efficiency and low noise. Since high performance power MOSFETs and PHOTO ISOLATED technology are used. Output signal is very clean as a result of very low noise interference and lower distortion from the power supply.

### Audio Stage Design

Excellent power supply noise rejection ability for voltage amplification stage due to the of constant current drove differential amplifier. Low negative feedback circuitry reduces overall distortion and greatly lessens harmful high order harmonics.

### Protection circuitry

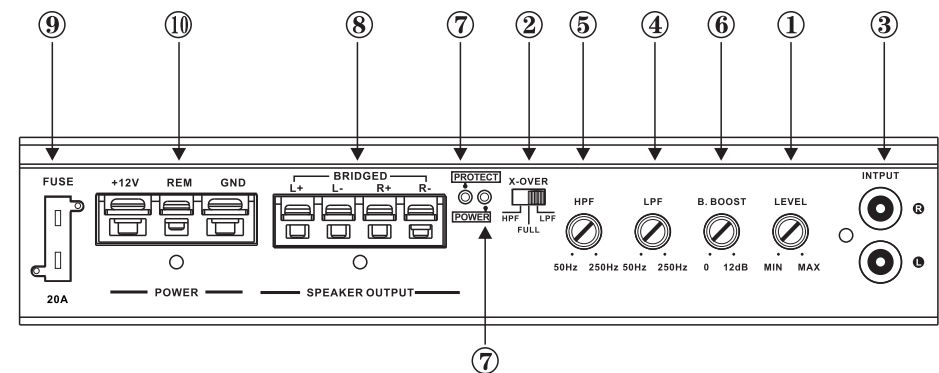
Every piece of amplifier incorporates a 4-Way Protection Circuitry. If driven blow 1 ohm: shorted the speaker outputs, DC voltage appears on the speaker outputs, over-voltage connected from battery input or overheated the amplifier, the protection circuit will shut off the amplifier to prevent damage. When the LED indicator of front panel changes color from Blue to RED, the protection circuit is activated the amplifier auto reset after it cools down under overheating condition or manually reset by simply switching the power off and on.

### MIL Spec P.C. Board

The components are all assembled by hand onto FR1 P.C. Board. This assures that all high current carrying traces are of uniformly controlled Domension.

# CONTROLS AND CONNECTIONS

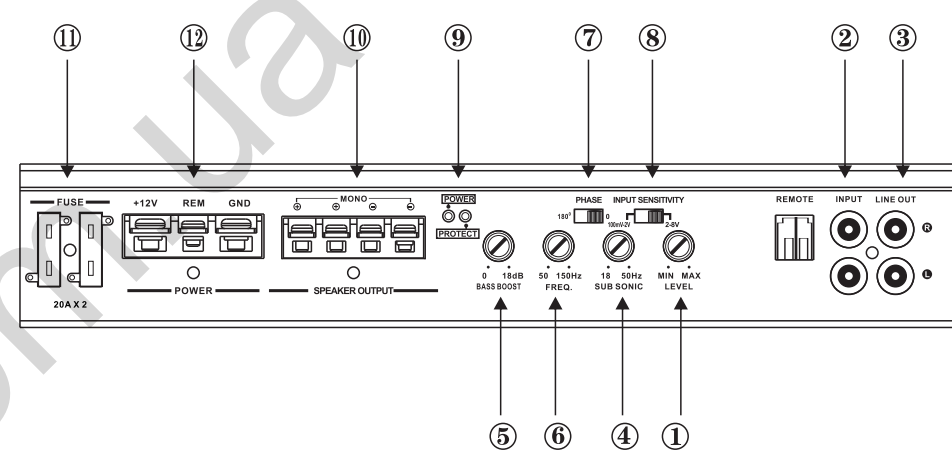
Model: EL-A52



- ① Amplifier Gain Control
- ② Internal Crossover Switch
- ③ RCA Input Jack
- ④ Low Pass Control
- ⑤ High Pass Control
- ⑥ Bass Boost Control
- ⑦ Status LED Indicator  
( Blue: Power, Red: Protection)
- ⑧ Speaker Output Terminals
- ⑨ Fuse
- ⑩ Power Supply and Remote Terminals

# CONTROLS AND CONNECTIONS

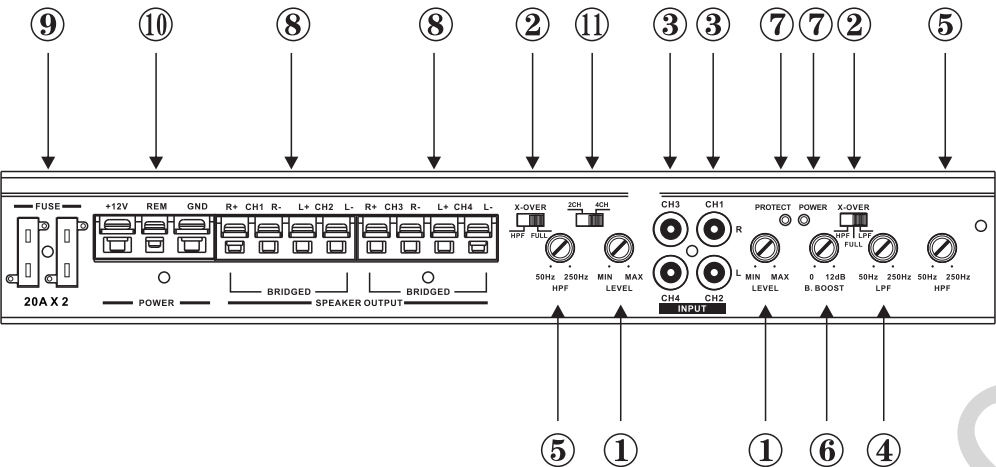
Model: EL-D61



- ① Amplifier Gain Control
- ② RCA Input Jack
- ③ RCA Output Jack
- ④ Sub Sonic Frequency Adjustment
- ⑤ Bass Boost Control
- ⑥ Crossover Frequency Adjustment
- ⑦ Phsae
- ⑧ Input Sensitivity Adjustment
- ⑨ Status LED Indicator  
(Blue: Power, Red: Protection)
- ⑩ Speaker Output Terminals
- ⑪ Fuse
- ⑫ Power Supply and Remote Terminals

# CONTROLS AND CONNECTIONS

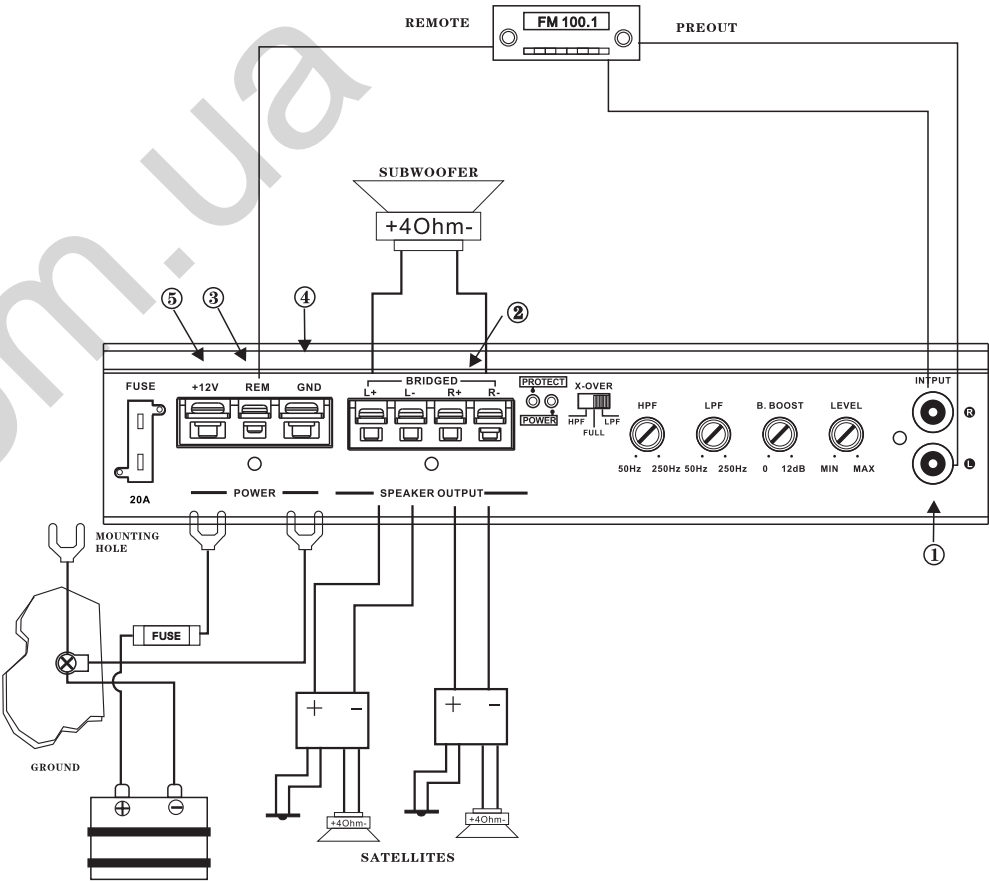
Model: EL-A54



- ① Amplifier Gain Control
- ② Internal Crossover Switch
- ③ RCA Input Jack
- ④ Low Pass Control
- ⑤ High Pass Control
- ⑥ Bass Boost Control
- ⑦ Status LED Indicator
- ( Blue: Power, Red: Protection)
- ⑧ Speaker Output Terminals
- ⑨ Fuse
- ⑩ Power Supply and Remote Terminals
- ⑪ Channel Select Mode Switch

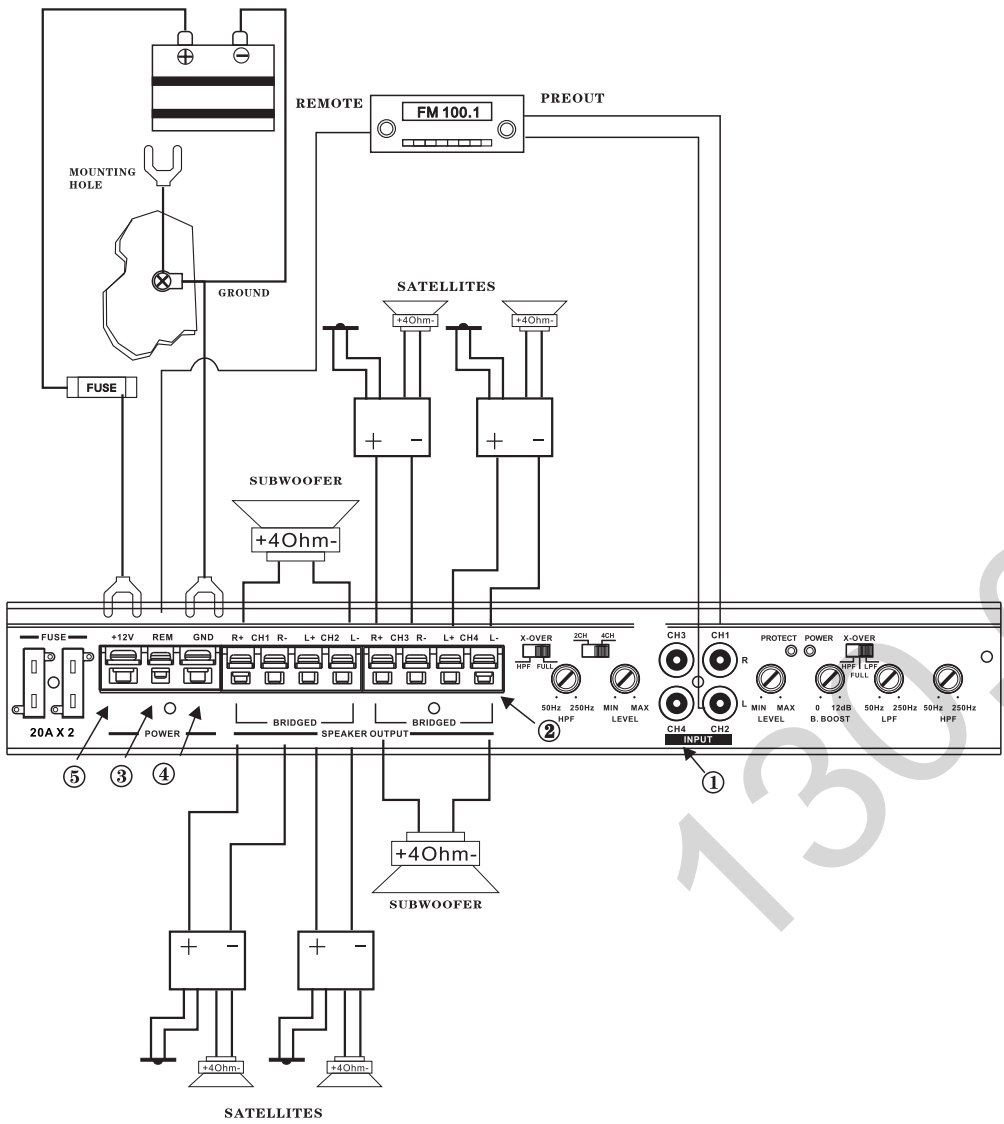
# CONTROLS AND CONNECTIONS

Model: EL-A52



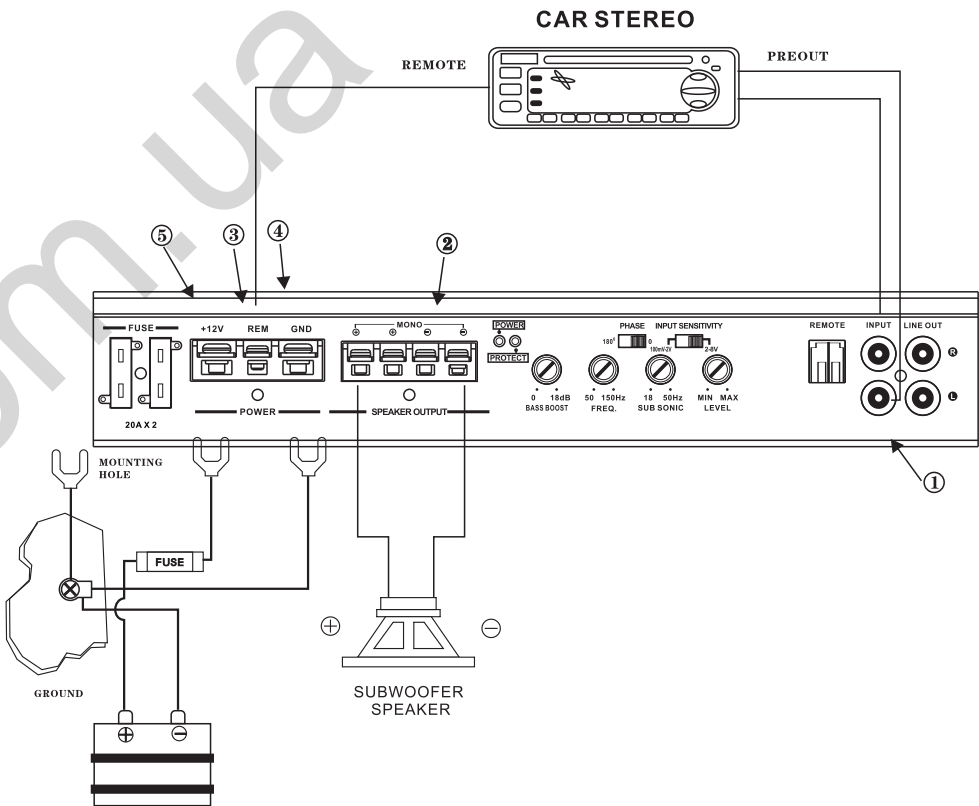
# CONTROLS AND CONNECTIONS

Model: EL-A54



# CONTROLS AND CONNECTIONS

Model: EL-D61





## CONNECTION DESCRIPTIONS

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### ① RCA Input Jacks

The Line-Out Leads of your head unit are connected here using RCA extension patch cords. Be sure to observe proper channel designation-CH 1, CH 2 to Front Left, Right and CH 3, CH 4 to Rear Left, Right.

### ② CH 1/2/3/4 Speaker Output Terminals

Connect to Satellite Speakers. Make sure to observe correct speaker connections, maintaining the polarity of the speakers. Positive(+) and Negative(-) terminals

### ③ Remote Input Leads

Connect remote input to the remote turn-on lead of your head unit.

### ④ Ground Lead(Black)

Secure the connection of this lead to a clean bare metal spot on the vehicle's chassis. Verify this point to be a true ground by checking for continuity between the point and the negative terminal of the vehicle's battery.

### ⑤ +12V

For power terminal connection, an appropriate gauge wire is run to the positive battery terminal via a fuse of adequate amperes. The Fuse must be placed close to the vehicle battery. And plugged in after all connections have been made to ensure maximum protection.

## INSTALLING INSTRUCTIONS

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Please read the following installations carefully. This will ensure your U-dimension equipment shall continue to function for many years.

1. Make sure that the unit has sufficient ventilation. Do not mount the amp near hot engine compartments or electronic devices.

2. Run the black ground wire to the nearest good chassis ground point.

- Be sure to remove paint and rust to make a high quality connection to the Chassis.
- The lug which you attach to the black wire must be crimped well and Soldered.

3. The red wire must be extended with the appropriate gauge wire and run to the positive battery terminal via the supplied fuse.

- The fuse must be located at the battery for absolute protection.
- DO NOT over any rated fuse value.

4. Connect the REMOTE connector lead to the remote output wire from the head unit.

5. Make sure that the amplifier is securely mounted. Run the RCA input to the outputs of the preceding piece of equipment by using only quality patch cords.

Be sure to observe the proper channel destination.

- Set proper position of filter switches HP means high pass (for ch 1/2/3/4):  
LP means low pass (for Subwoofer out channel). and Off means by pass for internal crossover of amplifier.
- Tune the crossover frequency knobs(FREQ) to the selected frequency point.
- Set the amp gain knobs(sensitivity from min to max) to the level which matches that of the head unit (and other amplifiers).

6. Connect the speaker systems to the terminal block, Observe the polarity carefully so as to keep the speaker in phase.

## WARNING

- (1) Don't short the SPEAKER OUT" + "and " - " terminals or connection wires, that will damage the amplifier.
- (2) If you want to use your radio, suggest you turn off this amplifier, prevent to disturb your radio.

## 1 CHANNEL AMPLIFIER OPERATION

### LPF CONTROL

This unit is low pass amplifier, you may select the low pass crossover point between 50 Hz –150Hz.

### PHASE SEITCH

To use this switch can select the phase 0° or 180°.

### SUBSONIC

You may select the SUBSONIC point between 18Hz and 50Hz.

### LEVEL CONTROL

The input level control allows the system to work well within a wide range of output level. Choose the adjustment in te way that you achieve a sound most possibly without any distortion .

As a guideline the following procedure is recommended:If you use several amplifier , the adjustment has to bemade for each set separately tune in the volume of your car radio to 2/3 of the maximum volume.

Now turn the gain control of the amplifier from " Min " to " Max " direction until you can hear distortions. Then turn the level control a little back to " Min ". The gain control adjustment is finished now.

Attention! If you use 1 Ohm speakers the overload protection is triggered out, turn the gain control to " Min " direction , until the operation is free of trouble.

## SPECIFICATIONS

Model NO	EL-A52	EL-A54	EL-D61
Power Output @4 Ohm	50W X 2	50W X 4	300W X1
Power Output @2 Ohm	75W X 2	75W X 4	600W X1
Bridged Output @4 Ohm	125W X 1	125W X 2	No
Frequency Response	10Hz-30KHz	10Hz-30KHz	18Hz-150Hz
THD	0.05%	0.05%	0.05%
S/N Ratio	90dB	90dB	90dB
Stereo Separation	55dB	55dB	No
Input Sensitivity	200mV-4V	200mV-4V	100mV-8V
Damping Factor	>200	>200	>200
Input Impedance	10 k ohm	10 k ohm	10 k ohm
Crossover: High-pass	50Hz-250Hz	50Hz-250Hz	18Hz~50Hz
Low -pass	50Hz-250Hz	50Hz-250Hz	50Hz~150Hz
Idle Current	450mA	650mA	1.5 A
Remote Voltage	10-14V	10-14V	10-14V
Remote Current	<1mA	<1mA	<1mA