

OWNER'S MANUAL



DRAGO DP24K

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Installation

Massive Audio does not recommend installing DRAGO Series Amplifiers without the help of a certified installer and does not warranty this amplifier for abuse caused by mis-installation. Please have your installer consult with this user manual before installation.

Mounting

Disconnect the negative (-) battery cable before mounting or making any connections. Check the battery and alternator ground (-) connections. Make sure they are properly connected and free of corrosion. Before selecting a mounting location for the DRAGO amplifier, please take cooling and safety into consideration.

Avoid installing DRAGO amplifier on speaker boxes with excessive vibration !

The DRAGO amplifiers have been designed with a good heat dissipating heatsink. To avoid excessive heating, it is recommended that DRAGO amplifier is installed in a well ventilated space

+12V(B+), GND, REM CONNECTION

+12V / B+ (POWER CONNECTION)

Before mounting the DRAGO amplifier, disconnect the negative (-) wire from the battery to protect any accidental damage to the DRAGO amplifier or the audio systems. The amplifiers are equipped with 0 AWG power and ground terminals. Connect the power cables to power terminals labels as + 12V as the DRAGO amplifier is not equipped with fuses, external fuses are required.

Connect one end of the fuse holder to the power cable and the other end of the fuse holder to the positive battery terminal within 20 cm of the same cable.

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

Make sure that the fuses and the fuse holder are appropriate and sufficient for the desired application.

GND (GROUND CONNECTION)

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

Make sure the location is clean with direct electrical connection to the chassis of the vehicle.

Connect one end of an equal sized cable as the positive cable to the location of ground.

It is important that the ground cable is as short as possible, but no longer than 75 cm.

Run one end of the cable to the grounding point.

Run the other end of the cable to the mounting location.

Connect the ground cable to the terminal labeled as GND.

REM (REMOTE CONNECTION)

Run a remote turn on cable from the switched + 12V source.

This can be a toggle switch, a relay, the source unit's remote output cable or power antenna trigger cable.

Connect the remote turn on cable to the power terminal labeled as REM.

Panel Layout



1) INPUT (RCA)

Connect preamp signal cables from the head unit to the RCA input of the amplifier. Minimum level input of 0.4V - 10V maximum is essential for correct operation.

2) SPEAKER INPUTS

This is a MONO input. Make sure the correct polarity and impedance is used. Depending on the design and output of the system we recommend using a minimum 12 AWG. Minimum impedance is 10Ohm. Both + and - are internally connected for a 1 Ohm final minimum load. Due to the high performance nature of this amplifier we recommend a professional installation and no warranty will cover mis-installation or misuse due to self installation.

3) GAIN LEVEL

Matches the output voltage of the head unit's RCA line-outs to the input section. We suggest you set the gain on the head unit at 80% max volume, then on the amplifier starting at the lowest gain level, gradually increase until the clipping LED begins to flash. Then slowly decrease the gain until the LED turns OFF to prevent clipping.

4) LOW PASS FILTER (80Hz ~ 12KHz)

Controls the low pass point for the speaker outputs

5) HIGH PASS FILTER (10Hz ~ 270Hz)

Allows cut off of low frequencies and subsonic signals.

6) BAND PASS FILTER (10Hz ~ 12KHz)

Provides gain control band pass frequencies.

7) PARAMETRIC EQUALIZER (35Hz ~ 120Hz)

Variable bass boost with 0 to +12dB gain

8) SUBSONIC FILTER FIXED @ 10Hz

9) BASS BOOST REMOTE INPUT

Gain Remote (Optional): Turn knob clockwise to increase level or counter clockwise to decrease level.

10) PROTECTION / CLIP / POWER LED'S

Protection LED illuminate RED when there is an issue

Clip LED will flash RED when 85% of amplifiers capacity limit is reached. If this occurs turn gains down.

Power LED illuminate GREEN when amplifier is active

11) COOLING FANS

The cooling fans will always be activated by turning on the device, operating at a fixed speed, removing hot air and thus keeping the amplifier operating at its optimum temperature.

+12V(B+), GND, REM Connection



GND (GROUND CONNECTION)

For connection to chassis ground. For optimum performance, 0 gauge cable is recommended.

REM (REMOTE)

Connect to switched +12V from the head unit.

+12V / B+ (POWER CONNECTION)

For connection to positive terminal of battery (+12).

For optimum performance, 0 gauge cable is recommended.

SPEAKER INPUTS

Amplifier connection to the loudspeakers. Minimum speaker gauge is 12 AWG.

Minimum speaker impedance is 1 Ohm.

⚠ CAUTION

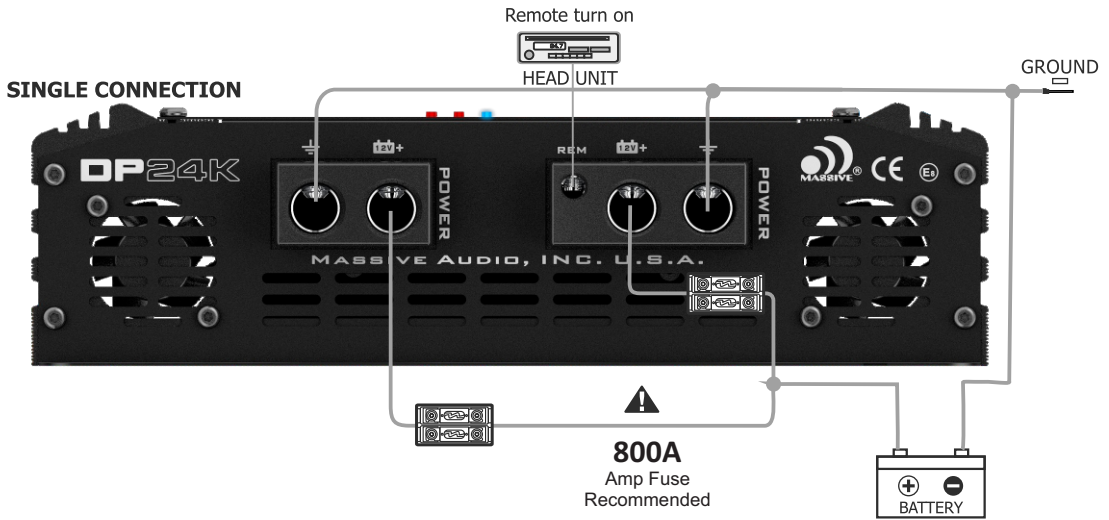
Before attempting to make any connections to power supply, input and output connectors, make sure the amplifier is in OFF state. Check polarity of cables carefully as using reversed polarity will cause damage to amplifier. And to prevent power loss and overheating of wiring, always use the recommended wire gauges.

⚠ CAUTION

Installation of the amplifier should be done in the following steps:

1. Ensure that the ground is appropriate, then connect it to the amplifier.
2. Next step is to connect the +12V wire. Ensure all power terminals are used.
This cable has to be fused at the battery for safety precautions.
3. The final step is connecting the switched remote.

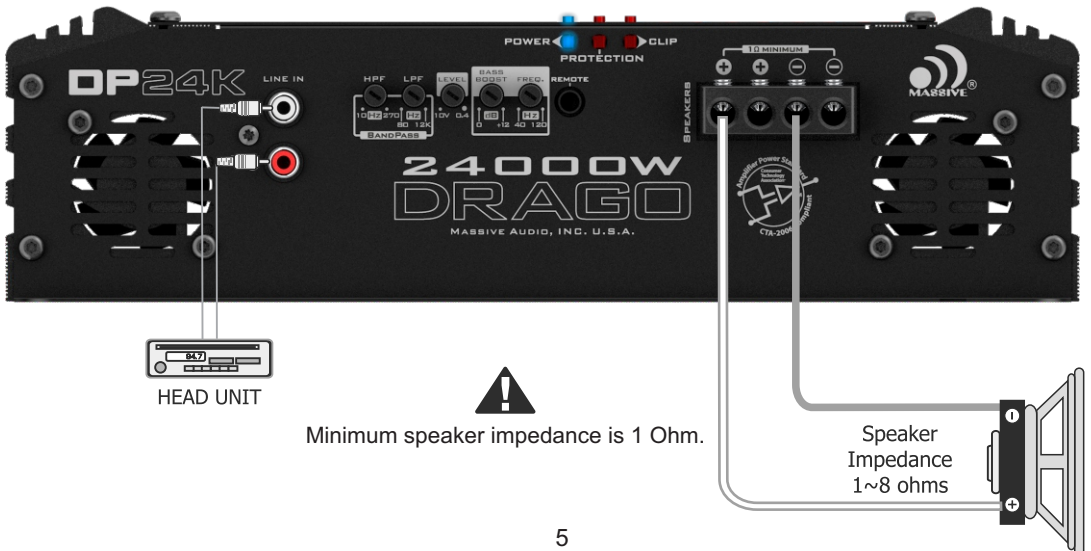
+12V(B+), GND, REM Connection



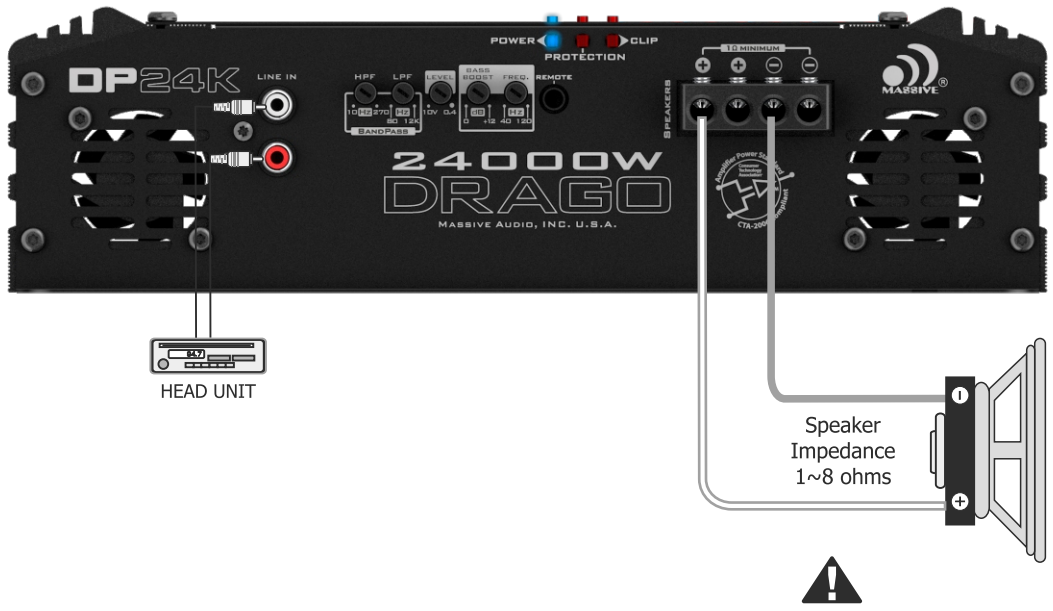
Keep GROUND of equal length. This drawing is for illustration purpose only.

We recommend using 12 AWG speaker cables to obtain intended performance. Run 12 AWG speaker cables from your speakers to the amplifier's mounting location. Keep the speaker cables separate from the power cables and the amplifier's input cables. Use grommets where the cables have to penetrate the vehicle chassis. Connect the speaker wires according to the terminals on each speaker. Strip 1cm, 3/8" of insulation of the end of each cable and twist the cable strands together tightly. Make sure there are no stray strands that might touch other cable or terminals and cause short circuit. Connect the cable ends to the amplifier as shown in the speaker wiring diagram.

Speaker Connection



Speaker Connection



Minimum speaker impedance is 1 Ohm.

WARNING

Please read these safety warnings and cautions carefully to ensure your personal safety and prevent property damage.

Fire and Electric Shock Hazard

- Do not open the amplifier, nor make any modifications to the products. There's a risk of accident, fire or electric shock
- Do not expose your Massive Audio Amplifier to liquid, moisture, humidity, or rain.
- Exposure of the Massive Audio Amplifier to moisture could result in electric shock.
- Do not drop, disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate, paint, or insert foreign objects in to the Massive Audio Amplifier, such actions could result in electric shock.
- Do not expose your Massive Audio Amplifier to extremely high or low temperatures.
- Do not leave your Massive Audio Amplifier in direct sunlight for extended periods of time.
- Do not leave your Massive Audio Amplifier near open flames such as cooking burners, candles, or fireplaces.
- Do not block any ventilation openings.
- Do not open or tamper with this amplifier in any way. Do not touch bare wires while connected to this amplifier without proper protective gloves.
- Exercise extreme caution when you operate the amplifier near an open gasoline tank or electrical wires.
Failure to comply with any of these warnings could result in injury or death.
- Speaker damage can result from high volume levels.
- Massive Audio is not liable for any damage to your person, equipment or property.

Specifications

MODEL CODE

Continuous Power Output @14.4V Input

-RMS power, 4 ohms mono -----	7,840 Watts
-RMS power, 2 ohms mono -----	13,450 Watts
-RMS power, 1 ohm mono -----	19,050 Watts
-RMS power, 1 ohm @ 18 volts -----	24,192 Watts
18 Volts operation with actual SPEAKER LOAD only	
Signal To Noise Ratio -----	>90dB
Low Pass Frequency Crossover -----	80Hz ~ 12KHz
High Pass Frequency Crossover -----	10Hz ~ 270Hz
Band Pass Frequency Crossover -----	10Hz ~ 12KHz
Parametric Equalizer range -----	35Hz ~ 120Hz
Bass Boost -----	0dB - 12dB
T.H.D Continuous @ 4 ohm, 100Hz -----	<0.9% THD
Efficiency @ 4 ohm, 100Hz -----	94%
Input Sensitivity -----	Variable 400mV ~ 10V (+/- 5%)
Dimensions (inch) -----	2.97" x 10.86" x 24.09"
Operating Voltage -----	DC 9V ~ 18V
Current drawn @ 1 Ohm 19,050 Watts RMS -----	1550A / 14.4 VDC
Recommended Fuse Rating -----	800A
Weight -----	22.93 Lbs.

The above specifications are subject to modifications without prior notice.

Caution:

To reduce the risk of electric shock, do not remove the bottom plate and place a barrier to prevent accidental contact with uninsulated terminals.

WARNING

"Dangerous Voltage / Current" within the product's enclosure, and the outside terminals that may be of sufficient magnitude to constitute a risk of electric shock and/or serious injuries to persons.



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