

DS18 ZR500.1D 4 Channels Class Stereo Full Range Amplifier **Owner's Manual**

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OWNER'S MANUAL MANUAL DE USUARIO



Monoblock Class D Subwoofer Amplifier ZR500.1D • ZR1000.1D • ZR1500.1D • ZR2000.1D 4 Channels Class D Stereo Full Range Amplifier ZR600.4D • ZR800.4D • ZR1600.4D

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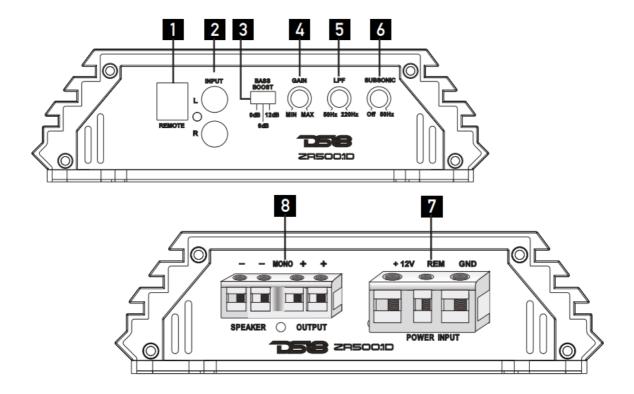
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FEATURES

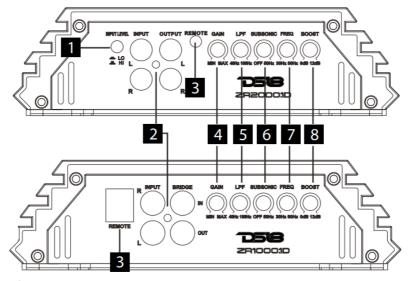
ZR500.1D

- 1. **REMOTE** Controller Input Jack, plug the Bass level knob to adjust the volume remotely.
- 2. INPUT Low-Level Input, this is your RCA audio signal input from the source (head unit).
- 3. BASS BOOST Switch selector for Bass Boost gain, this can be selected for 0dB, 6dB or 12dB gain.
- 4. GAIN Knob for input gain adjustment, this ranges from 0.2V to 6V input signal.
- 5. **LPF** Knob for Low Pass Frequency adjustment, this ranges from 50Hz to 220Hz.
- 6. SUBSONIC Knob for Subsonic frequency adjustment, this ranges from 10Hz to 50Hz.
- 7. **POWER INPUT** Power connection terminals.
 - +12V Positive Terminal, using a 4 Ga wire connect it Directly to the Positive (+) Post of the car battery.
 - REM Terminal to Remote cable, which comes from the source and controls the amplifier switching on. (Applied voltage must be between 10 and 15VDC).
 - GND Ground terminal, using a 4 Ga wire connect it to the car chassis. Keep the length of the ground cable to a minimum.
- 8. **SPEAKER OUTPUT** Speaker connecting terminal.

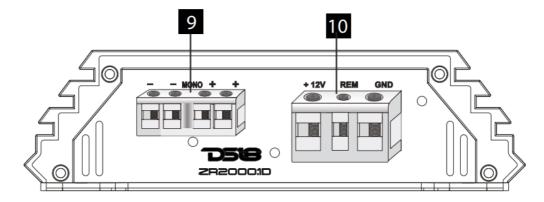


ZR1000.1D | ZR1500.1D | ZR2000.1D

- 1. **HI / LO** Level input Button Selector.
- 2. INPUT Low-Level Input, this is your RCA audio signal input from the source (the head unit).
 - **OUTPUT** (Only for ZR2000.1D) Low-Level Output, A daisy chain output for connection to another amplifier with a low-level input.
 - **BRIDGE** (Only for ZR1000.1D and ZR1500.1D) for Strapping two amplifiers as one with one Master and one Slave configuration.
 - IN use an RCA to connect from the Master Amplifier, use this when this is used as a Slave amplifier.
 - OUT use an RCA to connect to a Slave Amplifier, use this when this is used as a Master Amplifier.
- 3. **REMOTE** Controller Input Jack, plug the Bass level knob to adjust the volume remotely.
- 4. GAIN Knob for input gain adjustment, this ranges from 0.2V to 6V input signal.
- 5. **LPF** Knob for Low Pass Frequency adjustment, this ranges from 40Hz to 180Hz.
- 6. **SUBSONIC** Knob for Subsonic frequency adjustment, this ranges from 10Hz to 50Hz.
- 7. FREQ Knob for Bass Boost Frequency adjustment, this ranges from 30Hz to 80Hz.
- 8. **BOOST** Knob for Bass Boost gain, this ranges from 0dB to +12dB.

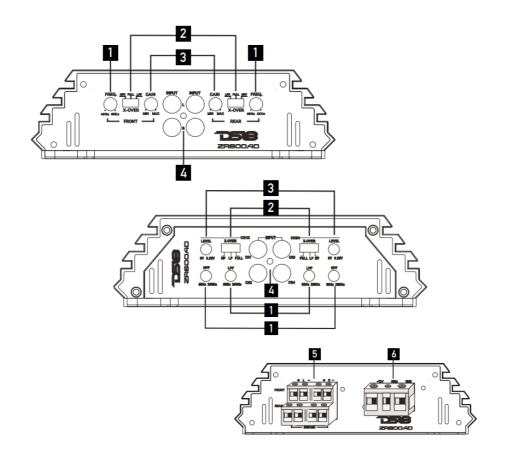


- 9. **SPEAKER OUTPUT –** Speaker connecting terminal.
- 10. **POWER INPUT** Power connection terminals.
 - +12V Positive Terminal, using a 4 or 0 Ga wire connect it Directly to the Positive (+) Post of the car battery.
 - **REM** Terminal to Remote cable, which comes from the source and controls the amplifier switching on. (Applied voltage must be between 10 and 15VDC)
 - **GND** Ground terminal, using a 4 or 0 Ga wire connect it to the car chassis. Keep the length of the ground cable to a minimum.

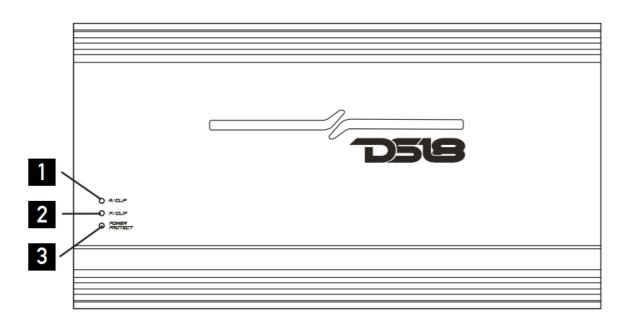


ZR600.4D | ZR800.4D | ZR1600.4D

- 1. **FREQ** Knob for Frequency adjustment, this ranges from 40Hz to 4KHz.
- 2. FREQUENCY SELECTOR SWITCH HP High frequency, LP low frequency, F Full frequency.
- 3. **GAIN** Knob for input gain adjustment, this ranges from 0.2V to 6V input signal.
- 4. **INPUT** Low-Level Input, this is your RCA audio signal input from the source (head unit).
- 5. **SPEAKER OUTPUT** Speaker connecting terminal.
- 6. **POWER INPUT** Power connection terminals.
 - +12V Positive Terminal, using a 4 or 0 Ga wire connect it Directly to the Positive (+) Post of the car battery.
 - **REM** Terminal to Remote cable, which comes from the source and controls the amplifier switching on. (Applied voltage must be between 10 and 15VDC).
 - **GND** Ground terminal, using a 4 or 0 Ga wire connect it to the car chassis. Keep the length of the ground cable to a minimum.



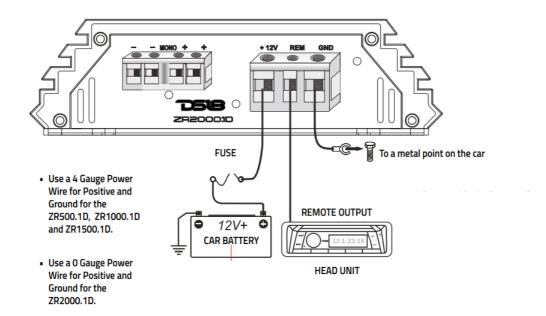
LED STATUS INDICATOR



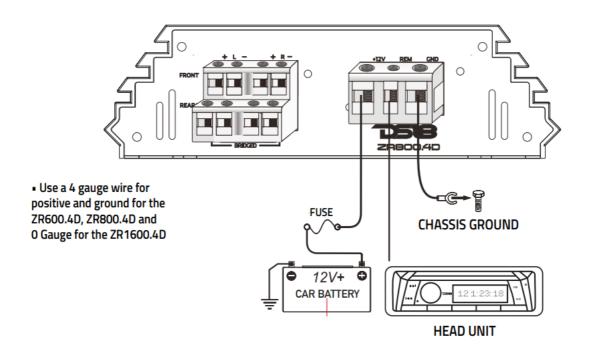
- 1. **CLIP:** When the signal is clipped the LED will turn YELLOW.
- 2. **PROTECT:** When the device enters into protection the LED will turn on RED.
- 3. **POWER:** When the device is powered on the LED turns green.

POWER CONNEACTION LEADS

ZR500.1D | ZR1000.1D | ZR1500.1D | ZR2000.1D

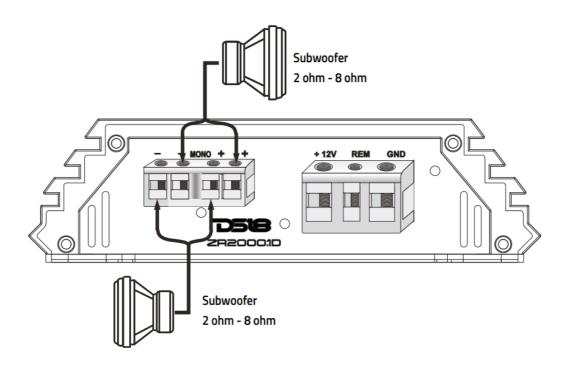


ZR6004.D | ZR800.4D | ZR1600x4D



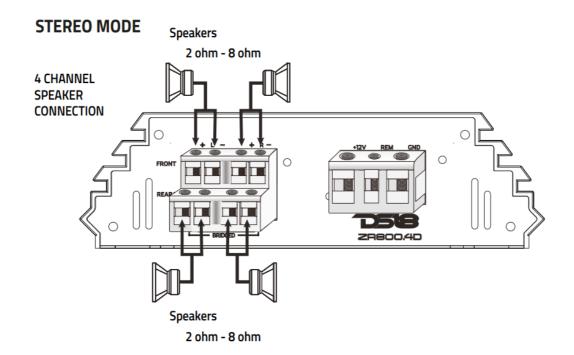
DUAL SUBWOOFER CONNECTION

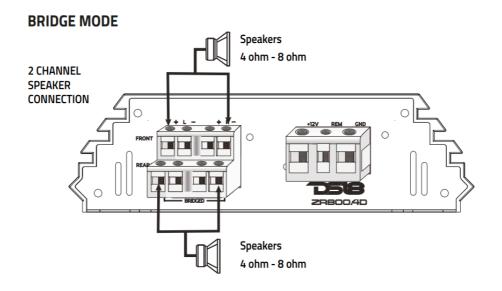
ZR500.1D | ZR1000.1D | ZR1500.1D | ZR2000.1D



SPEAKER CONNECTION

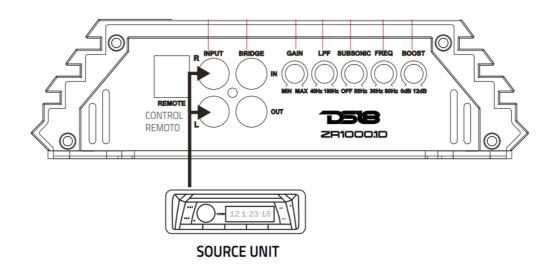
ZR600.4D | ZR800.4D | ZR1600.4D



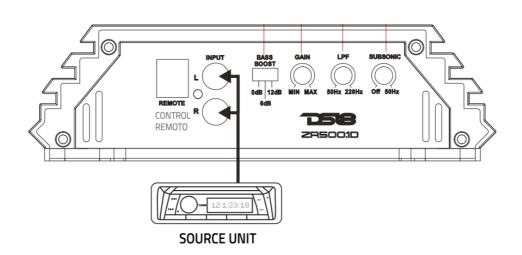


FRONT PANEL CONNECTION

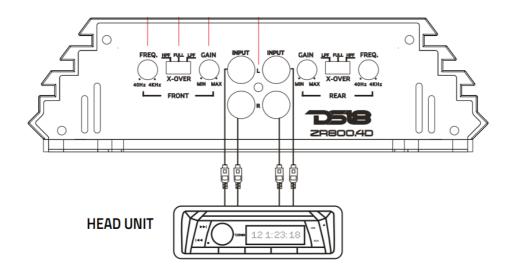
ZR1000.1D / ZR1500.1D / ZR2000.1D



ZR500.1D

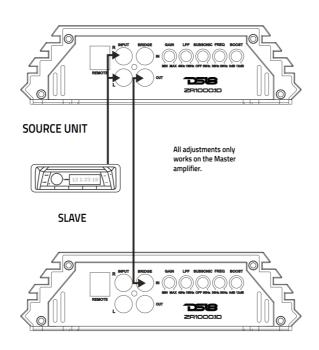


ZR600.4D / ZR800.4D / ZR1600.4D

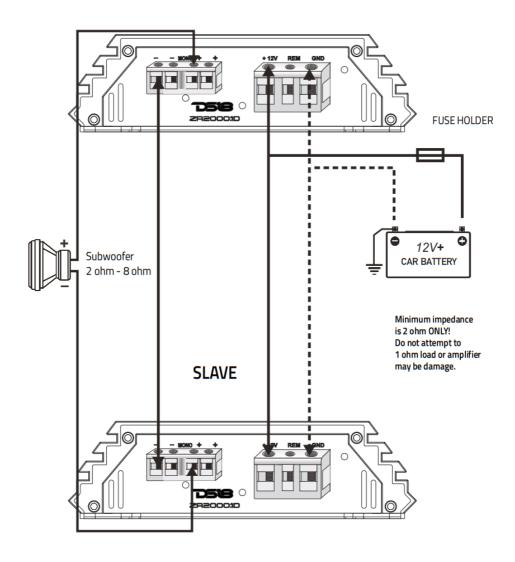


MASTER / SLAVE MODE (STRAP)

ZR1000.1D / ZR1500.1D MASTER



MASTER



SPECIFICATIONS

ZR500.1D

POWER Total Watts (Peak)	200W 300W
AUDIO	
Frequency Response	10 – 220Hz
Signal to Noise Ratio	
Efficiency @ 4ohm	
Damping Factor	
Input Impedance	20K ohm
Total Harmonic Distortion (THD)	
Low-Level Input Range	
Selectable X-Over	
X-Over Filter Range	
Bass Boost Range	
Bass Boost Frequency	
Infrasonic Filter	
Phase Selector	

FEATURES
Amplifier Class Digital
Amplifier TypeMonoblock Subwoofer
Number of Channels1 Channel
Minimum Impedance1 ohm
LED Indicator
Power Input Terminal Size4Ga
Recommended Fuse Size60A
Remote Level Control Yes – Dash Mount
Thermal Protection
Over-Load ProtectionYes
DC Output ProtectionYes
Short Circuit Output ProtectionYes
Voltage Input Protection
Clipping ProtectionYes
Body Color / FinishBlack Aluminum Brush
LED logoYes
ŭ
MEASUREMENT
Overall Length
Overall Wide
Overall Height
Heatsink Length
Gross Single Unit Weight
Gross Single Offic Weight
7D1000 1D
ZR1000.1D
POWER
Total Watts (Peak)3000W
RMS Power
RMS Power
RMS Power
RMS Power 380W RMS Power 650W RMS Power 1000W
RMS Power 380W RMS Power 650W RMS Power 1000W
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 4ohm 80%
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220 Input Impedance 20K ohm
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220 Input Impedance 20K ohm Total Harmonic Distortion (THD) 0.01%
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Trequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220 Input Impedance 20K ohm Total Harmonic Distortion (THD) 0.01% Low-Level Input Range 0.2v – 6v
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220 Input Impedance 20K ohm Total Harmonic Distortion (THD) 0.01% Low-Level Input Range 0.2v – 6v Selectable X-Over LPF Fixed / LPF Fijo
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO 10 – 220Hz Signal to Noise Ratio. >95dB Efficiency @ 4ohm 80% Damping Factor 220 Input Impedance 20K ohm Total Harmonic Distortion (THD) 0.01% Low-Level Input Range 0.2v – 6v Selectable X-Over LPF Fixed / LPF Fijo X-Over Filter Range 40~180 Hz
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220 Input Impedance 20K ohm Total Harmonic Distortion (THD) 0.01% Low-Level Input Range 0.2v – 6v Selectable X-Over LPF Fixed / LPF Fijo X-Over Filter Range 40~180 Hz Bass Boost Range 0~12 dB
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220 Input Impedance 20K ohm Total Harmonic Distortion (THD) 0.01% Low-Level Input Range 0.2v – 6v Selectable X-Over LPF Fixed / LPF Fijo X-Over Filter Range 40~180 Hz Bass Boost Range 0~12 dB Bass Boost Frequency 30-80hz
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RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220 Input Impedance 20K ohm Total Harmonic Distortion (THD) 0.01% Low-Level Input Range 0.2v – 6v Selectable X-Over LPF Fixed / LPF Fijo X-Over Filter Range 40~180 Hz Bass Boost Range 0~12 dB Bass Boost Frequency 30-80hz
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RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220 Input Impedance 20K ohm Total Harmonic Distortion (THD) 0.01% Low-Level Input Range 0.2v – 6v Selectable X-Over LPF Fixed / LPF Fijo X-Over Filter Range 40~180 Hz Bass Boost Range 0~12 dB Bass Boost Frequency 30-80hz Infrasonic Filter 10~50Hz Phase Selector .0-180
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RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO
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RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO 10 – 220Hz Signal to Noise Ratio >95dB Efficiency @ 40hm 80% Damping Factor 220 Input Impedance 20K ohm Total Harmonic Distortion (THD) 0.01% Low-Level Input Range 0.2v – 6v Selectable X-Over LPF Fixed / LPF Fijo X-Over Filter Range 40~180 Hz Bass Boost Range 0.0~12 dB Bass Boost Frequency 30-80hz Infrasonic Filter 10~50Hz Phase Selector .0-180 FEATURES Amplifier Class Digital Amplifier Type Monoblock Subwoofer Number of Channels 1 Channel Minimum Impedance 1 ohm
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO Frequency Response In 0 - 220Hz Signal to Noise Ratio Septiciency @ 40hm Solve Selfciency @ 40hm Solve Solv
RMS Power 380W RMS Power 650W RMS Power 1000W AUDIO

Thermal Protection Over-Load Protection DC Output Protection Short Circuit Output Protection Voltage Input Protection Clipping Protection Body Color / Finish LED logo MEASUREMENT Overall Length	YesYesYesYes / <9 / >16 VYes Aluminum BrushYes
Overall Wide	
Overall Height	
Heatsink Length	
Gross Single Unit Weight	
ZR1500.1D	
POWER	
Total Watts (Peak)	4500W
RMS Power	
RMS Power	
AUDIO	
Frequency Response	10 – 220Hz
Signal to Noise Ratio	
Efficiency @ 4ohm	
Damping Factor	
Input Impedance	
Total Harmonic Distortion (THD)	
Selectable X-Over LPF	
X-Over Filter Range	
Bass Boost Range	
Bass Boost Frequency	30-80hz
Infrasonic Filter	
Phase Selector	0-180
FEATURES	
Amplifier Class	Digital
Amplifier Type	
Number of Channels	
Minimum Impedance	
LED Indicator C	•
Power Input Terminal Size	
Recommended Fuse Size	
Thermal Protection	
Over-Load Protection	
DC Output Protection	
Short Circuit Output Protection	
Voltage Input Protection	
Clipping Protection	
Body Color / FinishBlack Aluminum B	
LED logo	Yes

MEASUREMENT
Overall Length
Overall Wide
Overall Height2" / 53mm
Heatsink Length
Gross Single Unit Weight
ZR2000.1D
POWER
Total Watts (Peak)6000W
RMS Power
RMS Power1300W
RMS Power2000W
AUDIO
Frequency Response
Signal to Noise Ratio>95dB
Efficiency @ 4ohm80%
Damping Factor
Input Impedance
Total Harmonic Distortion (THD)
Low-Level Input Range
High-Level Input
Selectable X-Over Fixed LPF
X-Over Filter Range
Bass Boost Frequency
Infrasonic Filter10~50Hz
Infrasonic Filter10~50Hz
Infrasonic Filter

ZR600.4D

POWER
Total Watts (Peak)2400W
RMS Power @ 4 ohm 4 x 150W
RMS Power @ 2 ohm 4 x 240W
RMS Power @ 4 ohm Bridge 2 x 400W
AUDIO
Frequency Response
Signal to Noise Ratio>90dB
Efficiency @ 4ohm90%
Damping Factor160
Input Impedance20K ohm
Channel Separation 60dB
Total Harmonic Distortion (THD)
Low-Level Input Range 0.2v – 6v
Selectable X-Over FULL/LPF/HPF
X-Over Filter Range
FEATURES
Amplifier Class Digital
Amplifier TypeStereo Full Range
Number of Channels4
Minimum Impedance
LED Indicator Clipping / Protect / Power
Power Input Terminal Size4Ga
Recommended Fuse Size
Thermal Protection
Over-Load Protection
DC Output ProtectionYes
Short Circuit Output Protection
Voltage Input Protection
Clipping Protection
LED logoYes
LLD logores
MEASUREMENT
Overall Length
Overall Height 7.24" / 184mm
Overall Height
Gross Single Unit Weight
ZR800.4D
POWER
Total Watts (Peak)
RMS Power @ 4 ohm
RMS Power @ 2 ohm
RMS Power @ 4 ohm Bridge 2 x 600W
AUDIO
Frequency Response
Signal to Noise Ratio
Efficiency @ 4ohm88%

Damping Factor160
Input Impedance20K ohm
Channel Separation 60dB
Total Harmonic Distortion (THD)
Low-Level Input Range
Selectable X-Over
X-Over Filter Range
FEATURES
Amplifier Class Digital
Amplifier Type Stereo Full Range
Number of Channels4 Channel
Minimum Impedance
LED Indicator
Power Input Terminal Size4Ga
Recommended Fuse Size
Thermal Protection
Over-Load Protection Yes
DC Output Protection
Short Circuit Output Protection
Clipping Protection
Body Color / FinishBlack Aluminum Brush
LED logoYes
LLD 10g0103
MEACUDEMENT
MEASUREMENT Overall Length10" / 254mm
Overall Wide
Overall Height
Heatsink Length
Gross Single Unit Weight
ZB1600 4D
ZR1600.4D
POWER
Total Watts (Peak)7200W
Total Watts (Peak)
Total Watts (Peak) 7200W RMS Power @ 4 ohm 4 x 400W RMS Power @ 2 ohm 4 x 680W RMS Power @ 4 ohm Bridge 2 x 1200W AUDIO Frequency Response 20Hz-20KHz
Total Watts (Peak) 7200W RMS Power @ 4 ohm 4 x 400W RMS Power @ 2 ohm 4 x 680W RMS Power @ 4 ohm Bridge 2 x 1200W AUDIO Frequency Response 20Hz-20KHz Signal to Noise Ratio >90dB
Total Watts (Peak) 7200W RMS Power @ 4 ohm 4 x 400W RMS Power @ 2 ohm 4 x 680W RMS Power @ 4 ohm Bridge 2 x 1200W AUDIO Frequency Response 20Hz-20KHz Signal to Noise Ratio >90dB Efficiency @ 4ohm 82%
Total Watts (Peak) 7200W RMS Power @ 4 ohm 4 x 400W RMS Power @ 2 ohm 4 x 680W RMS Power @ 4 ohm Bridge 2 x 1200W AUDIO Frequency Response 20Hz-20KHz Signal to Noise Ratio >90dB Efficiency @ 4ohm 82% Damping Factor 160
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Total Watts (Peak)
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Total Watts (Peak)

Minimum Impedance	2 ohm (Stereo) 4 ohm (Bridge)
LED Indicator	Power / Protect / Clipping
Power Input Terminal Size	0Ga
Recommended Fuse Size	280A
Thermal Protection	Yes
Over-Load Protection	Yes
DC Output Protection	Yes
Short Circuit Output Protection	Yes
Voltage Input Protection	Yes <9 / >16 V
Clipping Protection	Yes
Body Color / FinishBlack Alumin	um Brush
LED logo	Yes

MEASUREMENT

Overall Length	12.83" / 326mm
Overall Wide	7.24" / 184mm
Overall Height	2" / 53mm
Heatsink Length	11.45" / 291mm
Gross Single Unit Weight	6.18Lb

TROUBLESHOOTING

Before removing your amplifier, refer to the list below and follow the suggested procedures. Always test the speakers and their wires first.

THE AMPLIFIER WILL NOT POWER UP

- Check for good ground connection.
- Check that the remote DC terminal has at least 10V DC.
- Check that there is battery power on the+ terminal.
- · Check all FUSES.
- Check that Protection LED is not lit. If it is lit, shut off the amplifier briefly and then re-power it.

HIGH HISS OR ENGINE NOISE (ALTERNATOR WHINE) IN SPEAKERS.

Disconnect all RCA inputs to the amplifier, if hiss/noise disappears, then plug in the component driving the amplifier and unplug its inputs. If hiss/noise disappears, go on until the faulty/noisy component is found. It is best to set the amplifier input level as insensitive as possible. The best subjective S/N ratio is obtainable this way. Try to drive as high a signal level from the head unit as possible.

PROTECTION LED COMES ON WHEN THE AMPLIFIER IS POWERED UP.

Check for shorts on speaker leads. Check that volume control on the head unit is turned down low. Remove speaker leads, and reset the amplifier. If the Protection LED still comes on, then the amplifier is faulty. The amplifier will shut down automatically when the unit · temperature goes up to 85°C This will protect the unit from damage.

AMPLIFIER GETS VERY HOT.

Check that the minimum speaker impedance for that model is correct. Check for speaker shorts. Check that there is good airflow around the amplifier. In some applications, an external cooling fan may be required.

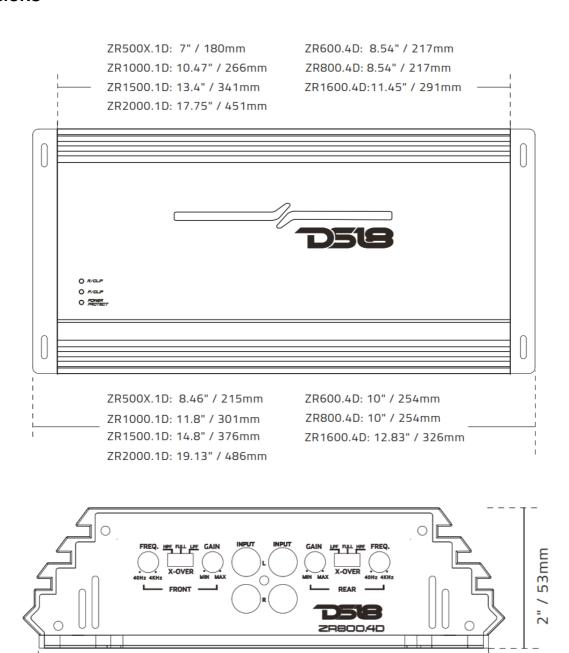
DISTORTED SOUND

Check that the Level control"s is set to match the signal level of the head unit. Check that all crossover frequencies have been properly set. Check for shorts on the speaker leads.

HIGH SQUEAL NOISE FROM SPEAKERS.

This is always caused by a poorly grounded RCA patch cord.

DIMENSIONS



We reserve the right to change products and specifications at any time without notice. Images may or may not include optional equipment.

WARNING

Professional installation by an authorized DS18 amps dealer is highly recommended! Otherwise, the performance of your new gear may not be satisfactory. In the event that you decide to do your own installation, please read and follow this manual very carefully. Failure to do so may compromise the integrity of this product, and your automobile, and possibly void the product warranty.

- 7.24" / 184mm -

Amplifiers are generally mounted in the hatch/trunk area of a car or SUV, and under or behind the seat of most pick-up trucks. Select a location that will provide adequate ventilation for the amplifier. Avoid mounting the

amplifier with the fins down. The fins should be facing up either vertically or horizontally. Secure the amplifier with the screws provided.

- 1. Over high volume will damage your speakers.
- 2. Be cautious when you use the amplifier near the gasoline tank and electric wires.
- 3. Protect the connecting wires and parts to avoid any damage or short circuit.
- 4. The power must be lee from the anode of the battery via FUSE.
- 5. The sound system must be in a turning-off situation when you check the amplifier.
- 6. Be sure that you use the same type of FUSE when you need to replace it .
 - * We reserve the right to make needed changes or improvements to the product, without informing customers about this in advance.

WARRANTY

Please visit our website **DS18.com** for more information on our warranty policy.



Documents / Resources



DS18 ZR500.1D 4 Channels Class Stereo Full Range Amplifier [pdf] Owner's Manual ZR500.1D 4 Channels Class Stereo Full Range Amplifier, 4 Channels Class Stereo Full Range Amplifier, Class Stereo Full Range Amplifier, Full Range Amplifier, Range Amplifier, ZR1000.1D, ZR1500.1D, ZR2000.1D, ZR600.4D, ZR1000.1D, ZR1500.1D, ZR2000.1D

References

• Official DS18 Pro Audio Store - Speakers, Subwoofers, Amps & More!

Manuals+,