

Full MOSFET  $\_$  digital mono amplifier

# **Product manual**





TECHNICAL FEATURES

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# TECHNICAL FEATURES

- Mono Block Amplifier for Subwoofer
- Latest Technology D Class Operation
- MOSFET Power Supplies for high power output and

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- best stability into low impedance loads
- Internally Fan Cooled
- Soft Delay Remote Turn On/Off System for eliminating pop noises
- Built-in Fully Adjustable Electronic Crossover Network with Bass EQ
- Self Diagnostic Multi Protection Circuit with LED Indicator for;

Impedance Over-load, Speaker Short Circuit, Thermal Overheating, and DC Output.

- Real I-ohm Stable Operation with Output Power Increasing
- Heavy-duty Brass CNC Machined Terminal Blocks
- Variable Gain Control
- Available Daisy Chain (Set-to-Set Bridgeable at 2 ohm)



(Due to Constant Improvement, Specifications and Parameters are subject to change without notice)

POWER CLASS D AMP	TEC GLADIATOR 5.0K
Max Power	12000W
RMS @ IOhm	6000W
RMS @ 20hm	4000W
RMS @ 4Ohm	2000W
Signal to Noise Ratio	<90DB
Frequency Response	10Hz ~ 500Hz
Crossover	Crossover
Low Pass Filter	50Hz ~ 400Hz
Crossover Slope	24dB Octave
Sub Sonic Filter	20Hz ~ 50Hz
Bass EQ at 45Hz	0 ~ 18dB
Input Gain Control	0.2V ~ 6.0V
Low Level Input Impedance	22K Ohms
Damping Factor	>300 into 4 Ohms
Dimensions	
Width (W)	280 m m
Height (H)	70mm
Length (L)	650mm

Remarks:

- Due to continuing improvements these specifications are subject to change without any notice.
- Please note that the features shown in this manual may vary from model to model.





# I. IN/OUT (RCA) Jack

For strapping two of the same model D Class amps together.

Connect the input of the MASTER to a suitable source via a shielded RCA interconnect cable and connect the MASTER OUTPUT RCA jack to the corresponding RCA jack on the SLAVE amplifier. Then select the MASTER/SLAVE switch properly.

# 2. MASTER/SLAVE Switch

Two same amplifiers can be connected together and bridged into a single 2-ohm (min) load. The level and frequency controls on the SLAVE amp will be disabled. Only the amplifier you select as the MASTER will control these functions.





#### CONTROL & FUNCTIONS

#### 3. GAIN Control

This control is used to match the input sensitivity of the amplifier to the particular source unit that you are using.

# 4. BASS EQ Control

This equalization circuit is used to enhance the low frequency response of the vehicle's interior. With up to 18dB of boost centered at 45Hz, the BASS EQ can be adjusted to meet your own personal taste.

# 5. GAIN REMOTE Jack

This is the connector port for the Remote Bass Control. When using this control set the BASS EQ control to the maximum 18dB position.

Now the amplifiers low frequency equalization circuit can be adjusted from the driver's seat.

# 6. LPF (Low Pass Filter) Control

This control is continuously adjustable from 50Hz through 400Hz at 24dB per octave.

#### 7. SUB SONIC Control

This filter allows high pass of frequency and is adjustable from 20Hz through 50Hz to provide an extra level of speaker protection.

#### 8. PROTECTION Idicator

This RED L.E.D. turns on when the built-in protection circuitry is activated. This indicates a problem with the system in relation to the amplifier.

#### 9. POWER Idicator

The GREEN when the power is on.

# 10. LINE IN (RCA) Jacks

These RCA style input jacks are for use with source units that have RCA line level outputs. A source unit with a minimum output of 200mV is required for proper operation. However, this input will accept levels up to 6Vrms.

# 11. LINE OUT (RCA) Jacks

RCA style output jacks allow for a signal to be sent to other amplifiers in a daisy-chain configuration. Only one Remote Bass Control can be used when multiple bass amplifiers are connected.

# 12. +BATT (Power Input Connection)

This terminal is the main power input for the amplifier and must be connected directly to the positive (+) terminal of the car battery.





#### CONTROL & FUNCTIONS

#### 13. GND (Ground Input Connection)

A good quality ground is required for your D Class amplifier to operate at peak performance. A short length of cable the same gauge as your power cable should be used to attach the ground terminal directly to the chassis of the vehicle. cable.

# 14. REMOTE (Remote Input Connection)

Amplifiers can be turned on by applying 12 volts to this terminal. This can be found on the rear of the source unit in the form of an electric antenna output, or a remote output. If this is not available you can wire to the ACC position on the key. An 18 gauge wire is sufficient to run the REMOTE.

#### **15. SPEAKER Terminals**

As shown in the wiring diagrams, be sure to observe speaker polarity through the system and speaker impedance. This specially tooled terminal is designed to accommodate up to 10 gauge speaker wire.

# CAUTION: Do Not Bridge the speaker outputs on these D Class models, this is already a Mono output!







### WIRING DIAGRAM









