

VT ELECTRONICS INC.



POWER

OFF





VT ELECTRONICS INC.

ABOUT US

If the name sounds familiar – it should. By definition, a Company is comprised of people – in this case the same people who have been bringing you Quality VT amplifiers for thirty four years.

However, this is a new Corporation and it brings new models, a new look, a new approach and a new logo.

Sound Systems are our major source of revenue, therefore we concentrate on excellence in that area. Our progress is not influenced by the success or failure of unrelated products.

DESIGN PHILOSOPHY

Many considerations affect the design of our products. It is not our intention to bring a unit on the market at the lowest possible price, instead we strive to create the best products possible at a competitive price. Where possible the design allows for servicing by unskilled personnel. For ease of servicing, all components are readily accessible and output transistors can be replaced simply by using a screwdriver.

It is our philosophy to provide you with the highest standards of performance, reliability and serviceability.

THE WAY WE ARE

We seek to have a thorough knowledge of our marketplace and strive to build the best possible products for it.

Many of our customers have specific requirements for their applications, and we pride ourselves in our willingness to meet those requirements. Our product line reflects this. If your specific requirement is not to be found in our standard line, we will consider making modifications to fulfill your requirements.





VT ELECTRONICS PRODUCT LINE.

We offer a wide range of power amplifiers with outputs ranging from 2 watts to 120 watts rms.

With our 14 inch chassis series we can supply you with 10, 15, 25, 35 or 60 watts rms. output capability for all available input configurations. For 120 watt output capability a larger chassis is required.

A smaller chassis delivering either 5 or 10 watts rms. is also available but with reduced input/ output configurations.

Smaller still, 2 or 4 watt rms. wall mount amplifiers are also available – designed for single speaker paging or “Music on hold” applications.

Fourteen Inch Chassis Series 10 to 60 watts (rms)

All the amplifiers in this series are available in several power ratings. For example,

Ten watt amplifier model numbers start at 1001, 1002, 1003 etc.

Twenty five watt model numbers start at 2501, 2502, 2503 etc.

Sixty watt model numbers start at 6001, 6002, 6003 etc.

The final digit describes the function and capabilities of that particular amplifier.

Fifteen watt and thirty five watt versions are also available, but are less popular and may require longer lead times.

The following pages will show the functions and capabilities associated with the last digit of the model number.



201 & 410 Wall Mount Series



Model 201 Illustrated



The 201 is a 2 watt (rms) amplifier designed for single speaker paging or 'Music on hold' Applications. It has a single ended input suitable for inputs from a high impedance microphone, tuner, C.D. or Tape player. This unit will deliver 2 watts into an 8 ohm load in addition to a balanced line output of +18 dbm into a 600 ohm line. Gain is adjusted by means of a preset trimmer. A 4 watt version is also available (Model 401).

The specifications are as follows:

Gain	26 db. @ 1000 Hz.
Max. output	2 watts (rms) into 8 ohms, +18 dbm into 600 ohms.
Bass Boost	10 db @ 50 Hz
Hum & Noise	-46 dbm (64 db below max. output)
Input Impedance	50 kilohms
Dimensions	4"W x 6"H x 3"D
Weight	1 lb.

Small Chassis Series (501, 1051)



Model 1051 Illustrated



The 1051 is a 10 watt (rms) utility amplifier for universal application. Model 501 is a five watt version of this amplifier. The 1051 features one unbalanced low impedance microphone input and a program input with 25 kilohm input impedance. The microphone input is applied by way of a four screw terminal at the rear of the chassis, and the program input is applied through a standard phono input jack.

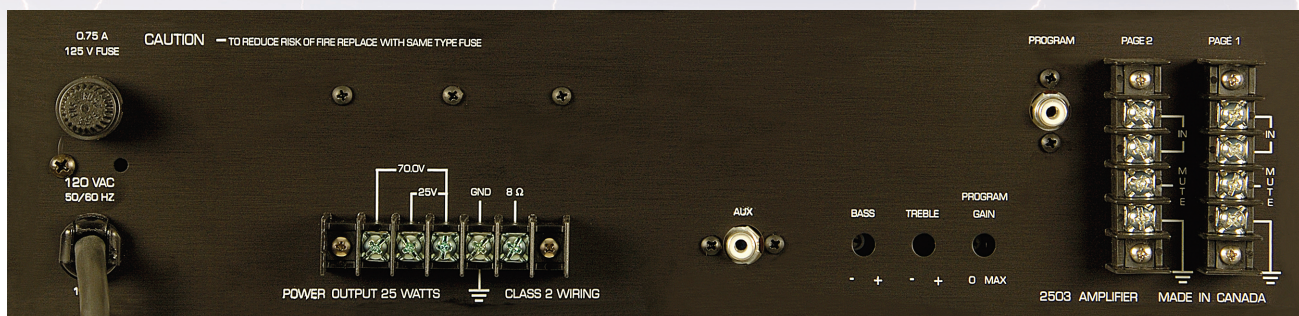
A dual electronic muting circuit is incorporated for positive muting of either the program or microphone channels. A single pole external closure is required to activate the microphone and mute the program channel.

The microphone input has a wide dynamic range and will operate with input signals of -30 to -60 dbm for full output without clipping. The microphone input is protected for operation in high RF fields without interference. A 15 db low frequency roll-off at 50 Hz produces crisp voice quality. This may be field modified for flat response.

The tone control will attenuate the high frequencies by up to 20 db and affects only the program channel. The output system and power supply are protected against shorts and overloads by fuses and current sensing circuits. Keyhole slots are provided on the underside of the unit to enable wall mounting.

Model 1055 is a similar amplifier, but with low impedance balanced line mic input.

2503 Amplifier



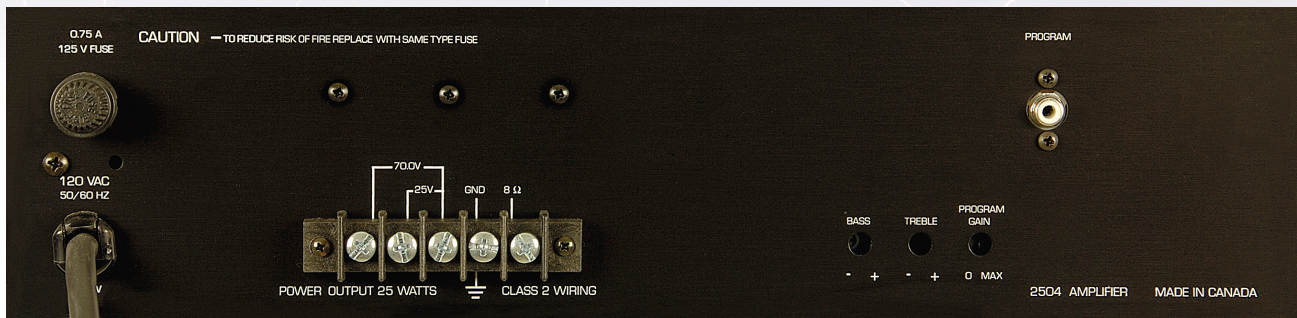
The 2503 is a 25 watt background music amplifier with plug-in capability for several input functions.

This versatile amplifier features a high performance transistor power amplifier with output capability of 25 watts (rms) into 4 or 8 ohm loads, as well as 25 and 70 volt line loads. Output protection consists of current limiting, transient suppression diodes and AC fuse.

The preamplifier section includes built-in muting circuitry, with precedence on mic.1, and feedback type bass and treble controls. Input capability of the basic unit provides for unbalanced medium level program input with a front panel gain control and a rear panel sensitivity control. An auxiliary input (without muting) is also provided. Two optional balanced microphone inputs may be added using the MIC-1 modules.

The MIC-1 module sockets also accept other input modules such as Telephone, Vox, Chime etc.

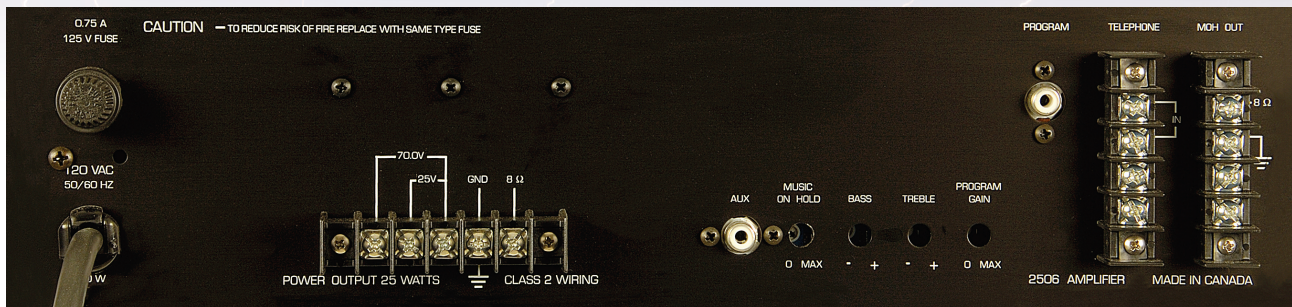
2504 Amplifier



The 2504 is a 25watt background music amplifier, that is most economical in situations where paging and flexibility are not the main consideration. This amplifier retains the same reliable circuitry as the rest of the 25 watt range.

The power amplifier has an output capability of 25 watts (rms) into 4 or 8 ohm loads, as well as 25 and 70 volt line loads. Output protection consists of current limiting, transient suppression diodes and AC fuse. The program input features a front panel gain control and a rear panel sensitivity control. The preamplifier section features feedback type bass and treble controls.

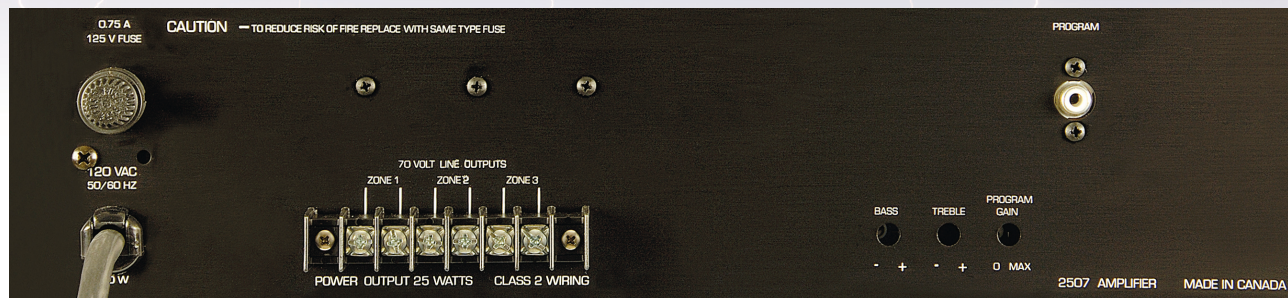
2506 Amplifier



The 2506 is a 25 watt background music amplifier identical to the 2502 in most respects , but with the addition of a 'Music on hold' output of 1 watt (into an 8 ohm load).

It includes built-in telephone circuitry with voice activated muting (Vox), and features level controls for telephone paging, program and auxiliary inputs. This amplifier features a high performance transistor amplifier with output capability of 25 watts rms into 4 or 8 ohm loads, as well as 25 and 70 volt line loads. Output protection consists of current limiting, transient suppression diodes and AC fuse. The preamplifier section includes built in muting circuitry and feedback type bass and treble controls. Input capability provides for unbalanced medium level program input with a front panel level control and a rear panel sensitivity control. The telephone circuitry has the capability for muting the program input with voice activated muting circuitry (Vox).

2507 Amplifier



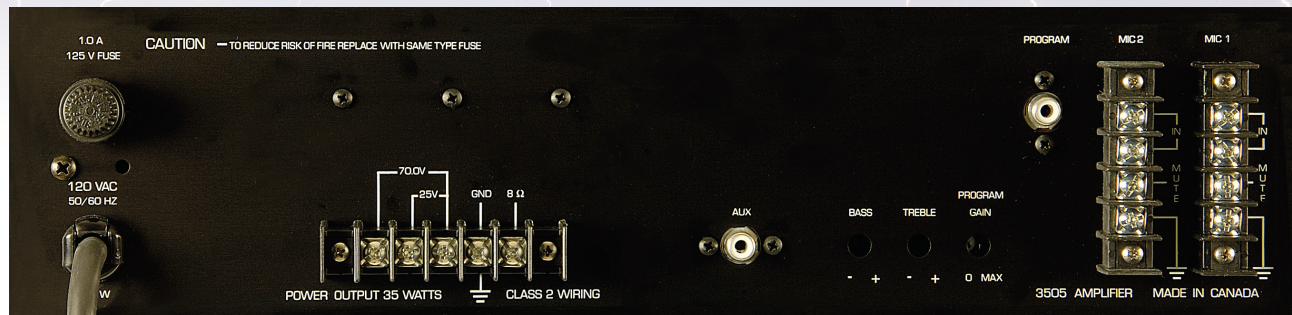
The 2507 is a 25 watt background music amplifier with the built-in capability to supply adjustable levels of power output to three separate locations. As such it is an economical alternative to the typical zoning amplifier which utilizes three separate amplifiers and output transformers.

This zoning amplifier features a high performance transistor power amplifier with a total output capability of 25 watts (rms) that can be divided into three 70 volt line loads. If, for instance you wish to divide the power to three zones with a maximum of 8 watts per zone, then the wattage settings per speaker transformer should total 8 watts for that zone. That power level would of course correspond to the maximum setting of that zone's level control. The output could also be split into 10 + 10 + 5 watts with the correct wattage settings per zone, and so on.

Output protection for this amplifier consists of current limiting, transient suppression diodes and AC fuse.

The preamplifier section features feedback type bass and treble controls. Input capability of the basic unit provides for unbalanced medium level program input with a front panel gain control and a rear panel sensitivity control. Incremental level controls are provided for each of the three zones.

3505 Amplifier

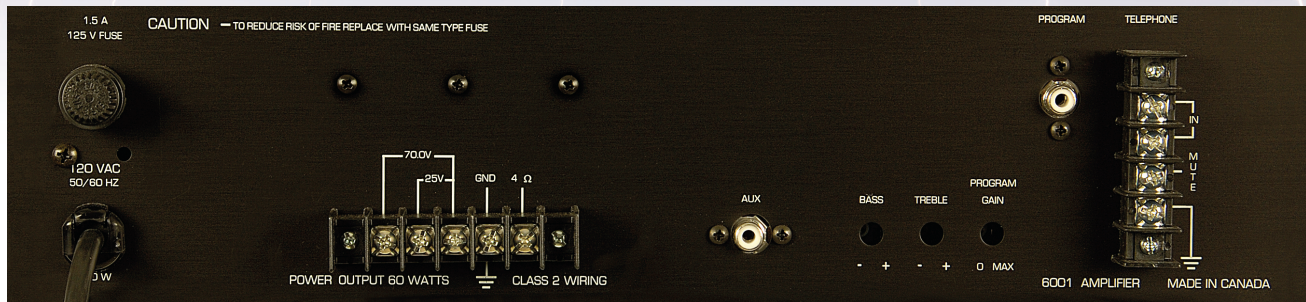


The 3505 is a 35 watt background music amplifier with dual low impedance balanced line microphone input circuits.

This economical unit features a high performance transistor power amplifier with output capability of 35 watts (rms) into 4 or 8 ohm loads, as well as 25 and 70 volt line loads. Output protection consists of current limiting, transient suppression diodes and AC fuse.

The preamplifier section includes built-in muting circuitry, with precedence on mic.1, and feedback type bass and treble controls. Input capability of this unit provides for unbalanced medium level program input with a front panel level control and a rear panel sensitivity control. An auxiliary input without muting is also provided, this input has no level control.

6001, 6002 Series



The 6001 is the first specialized version in our 60 watt range. It includes built-in telephone circuitry, and features level controls for telephone paging, program and auxiliary inputs.

This amplifier features a high performance transistor power amplifier with output capability of 60 watts rms into 4 or 8 ohm loads, as well as 25 and 70 volt line loads. Output protection consists of current limiting, transient suppression diodes and AC fuse.

The preamplifier section includes built-in muting circuitry and feedback type bass and treble controls. Input capability provides for unbalanced medium level program input with a front panel gain control and a rear panel sensitivity control.

The telephone circuitry has the capability for muting the program input with an external single pole contact closure.

The 6002 is identical in most respects, but the muting is voice activated (Vox).

12003 Amplifier



The 12003 is a 120 watt background music amplifier with plug-in capability for several input functions.

This versatile amplifier features a high performance transistor power amplifier with output capability of 120 watts (rms) into 4 or 8 ohm loads, as well as 25 and 70 volt line loads. Output protection consists of current limiting, transient suppression diodes and AC fuse.

The preamplifier section includes built-in muting circuitry, with precedence on mic.1, and feedback type bass and treble controls. Input capability of the basic unit provides for unbalanced medium level program input with a front panel gain control and a rear panel sensitivity control. An auxiliary input (without muting) is also provided. Two optional balanced microphone inputs may be added using the MIC-1 modules.

The MIC-1 module sockets also accept other input modules such as Telephone, Vox, Chime etc.

