

Triode Descriptions

Four colors are used to identify the various ToneGrinder models each indicating a triode characteristic performance. The 4 Standard model ToneGrinder tubes are described in the following four pages. An explanation of how to use the Standard Matrix (4 models) and the Custom Matrix (12 models, each a combination of 4 Standard models) will follow the four descriptions.

BLUE Triode

Suggested Uses

Guitar Amps Will produce a clean full bodied tone. Great for Jazz, Blues and Country. Also popular for rock with front end effects.

Bass Amps Excellent performance for all styles of bass players. The blue triode produces an amazing open full body tone with exceptional clarity and overtones across the frequency range.

Tube Microphones Produces an output with a Wide Dynamic Range resulting in excellent tone and greater audio detail.

Audio Preamps / Home Theater Excellent Dynamic Range produces wider sound field with well balanced frequency response. More audible detail can be experienced by the listener.

Triode Characteristics

Standard gain structure
Wide Dynamic Range
Well balanced frequency response across the curve
Subtle low and high frequency rolloff
Produces a bold clean tone
Output is clean, clear and focused

Summary

The BLUE triode design offers a solution to applications requiring clean output performance with bold (fat) tonal character that accentuates sonic detail. The subtle frequency rolloff characteristics are beneficial for those applications with a need for tight and focused tube performance. The use of front end distortion and other effects also add to the performance.

GREEN Triode

Suggested Uses

Guitar Amps Will produce a clean full bodied tone. Great for Jazz, Blues and Country. Also popular for rock with front end effects.

Bass Amps Excellent performance for all styles of bass players. Produces an amazing open full body tone with exceptional clarity and overtones across the frequency range.

Tube Microphones Produces an output with a Wide Dynamic Range resulting in excellent tone and greater audio detail.

Audio Preamps / Home Theater Excellent Dynamic Range produces wider sound field with well balanced frequency response. More audible detail can be experienced by the listener.

Triode Characteristics

Standard gain structure

Wide Dynamic Range

Well balanced frequency response across the curve

Produces a bold clean tone

Output is clean, clear and focused

Summary

The GREEN triode design is similar to the BLUE triode but without the subtle low and high frequency rolloff characteristics. This allows the tube to produce more frequencies in the audible spectrum. It also offers a solution to applications requiring clean output performance with bold (fat) tonal character that accentuates sonic detail. The use of front end distortion and other effects also add to the performance.

ORANGE Triode

Suggested Uses

Guitar Amps Will produce a higher output with a brighter tone. Great for Blues, Rock and Metal. Front end effects will add for a dramatic range of possibilities. Country players can enjoy this triode due to its emphasis on mids and higher frequency response.

Bass Amps Produces a unique tone if you like more rich mids with more emphasis on high frequency response. Same exceptional clarity and overtones as experienced with guitar amps.

Triode Characteristics

Moderate to high gain structure

More focused Dynamic Range

More low end rolloff

Frequency response is tightly focused on the mids and highs

Produces a brighter tone

Output is strong and tight, more crunch and sustain

Summary

The ORANGE triode design offers a solution for applications requiring muscle and bite. There is less bottom end than the BLUE and GREEN triodes and has excellent balance in the mids and highs. Sonic detail and clarity plus the generation of harmonics and overtones are exceptional. The use of front end distortion and other effects also add to the performance.

This tube can also be used in a clean mode. Great for Country, Blues or any style that prefer more mids and highs. With most guitars, using the neck pickup produces a very pleasing tone that has nice bottom end with great mids and highs, a very rich sound.

RED Triode

Suggested Use

Guitar Amps Will produce a higher output with a brighter tone. Great for Blues, Rock and Metal. Front end effects will add for a dramatic range of possibilities. Country players can enjoy this triode due to its emphasis on mids and higher frequency response.

Bass Amps Produces a unique tone if you like more rich mids with more emphasis on high frequency response. Same exceptional clarity and overtones as experienced with guitar amps.

Triode Characteristics

Moderate to high gain structure

More focused Dynamic Range

More low end rolloff

Frequency response is tightly focused on mids and highs

Produces a brighter tone

Output is strong and tight, more crunch and sustain

More focused output dynamics when overdriven

Summary

The RED triode design is similar to the ORANGE triode and offers a solution for applications requiring muscle and bite. There is less bottom end than the BLUE and GREEN triodes and has excellent balance in the mids and highs. This device produces a more focused sound field than the ORANGE device. Same great sonic detail and clarity plus the generation of harmonics and overtones are also exceptional. The use of front end distortion and other effects also add to the performance.

This tube can also be used in a clean mode. Great for Country, Blues or any style that prefers emphasis on the mids and highs. With most guitars, using the neck pickup produces a very pleasing tone that has nice bottom end with great mids and highs, a very rich sound.

STANDARD TONEGRINDER Expanded Output Series

MODEL	TRIODE 1	TRIODE 2	PART NUMBER	LIST PRICE
BLUE/BLUE	BLUE	BLUE	125-0101	\$139.00
GREEN/GREEN	GREEN	GREEN	125-0102	\$139.00
ORANGE/ORANGE	ORANGE	ORANGE	125-0103	\$139.00
RED/RED	RED	RED	125-0104	\$139.00

CUSTOM TONEGRINDER CONFIGURATIONS Expanded Output Series

MODEL	TRIODE 1	TRIODE 2	PART NUMBER	LIST PRICE
BLUE/GREEN	BLUE	GREEN	125-0105	\$219.00
BLUE/ORANGE	BLUE	ORANGE	125-0106	\$219.00
BLUE/RED	BLUE	RED	125-0107	\$219.00
GREEN/BLUE	GREEN	BLUE	125-0108	\$219.00
GREEN/ORANGE	GREEN	ORANGE	125-0109	\$219.00
GREEN/RED	GREEN	RED	125-0110	\$219.00
ORANGE/BLUE	ORANGE	BLUE	125-0111	\$219.00
ORANGE/GREEN	ORANGE	GREEN	125-0112	\$219.00
ORANGE/RED	ORANGE	RED	125-0113	\$219.00
RED/BLUE	RED	BLUE	125-0114	\$219.00
RED/GREEN	RED	GREEN	125-0115	\$219.00
RED/ORANGE	RED	ORANGE	125-0116	\$219.00

STANDARD TONEGRINDER CONFIGURATIONS X100 Series

MODEL	TRIODE 1	TRIODE 2	PART NUMBER	LIST PRICE
BX100A/BX100A	BLUE	BLUE	125-0201	\$119.00
GX100A/GX100A	GREEN	GREEN	125-0202	\$119.00
OX100A/OX100A	ORANGE	ORANGE	125-0203	\$119.00
RX100A/RX100A	RED	RED	125-0204	\$119.00

CUSTOM TONEGRINDER CONFIGURATIONS X100 Series

MODEL	TRIODE 1	TRIODE 2	PART NUMBER	LIST PRICE
BX100A/GX100A	BLUE	GREEN	125-0205	\$219.00
BX100A/OX100A	BLUE	ORANGE	125-0206	\$219.00
BX100A/RX100A	BLUE	RED	125-0207	\$219.00
GX100A/BX100A	GREEN	BLUE	125-0208	\$219.00
GX100A/OX100A	GREEN	ORANGE	125-0209	\$219.00
GX100A/RX100A	GREEN	RED	125-0210	\$219.00
OX100A/BX100A	ORANGE	BLUE	125-0211	\$219.00
OX100A/GX100A	ORANGE	GREEN	125-0212	\$219.00
OX100A/RX100A	ORANGE	RED	125-0213	\$219.00
RX100A/BX100A	RED	BLUE	125-0214	\$219.00
RX100A/GX100A	RED	GREEN	125-0215	\$219.00
RX100A/OX100A	RED	ORANGE	125-0216	\$219.00

ToneGrinder is a product of **WattGrinder Engineering, Inc.**

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