



STAGE GT AMPLIFIER





STAGE GT AMPLIFIER



STAGEA50011



STAGE GT AMPLIFIER



STAGEA60041



STAGE GT AMPLIFIER



STAGEA80021



STAGE GT AMPLIFIER



STAGEA90041

JBL STAGE GT AMPLIFIER



Product Positioning

Positioning Statement

- To create generation 2 and continue fulfill product line of JBL Stage GT Amps which are affordable, high performance with Class D technology, high reliability car audio amplifiers that fall within the reach of nearly every car audio enthusiast, yet offer the key features needed to interface with nearly every conventional source unit and speaker configuration available in the automotive space.
- To replace current generation to solve IC shortage issue

Key Features

- Modern design with Class D amplifier
- [New Feature on Gen2]: Start-Stop Vehicle Compatible
- [New Feature on Gen2]: OEM Load Detect System Compatible
- [New Feature on Gen2]: Adjustment control of Q factor (bandwidth) of the Bass Boost*
- RCA inputs and High-Level Inputs
- Input Sensitivity: Line Level: 0.2V - 5V; High level: 1 - 25V
- Compact size with extruded Heatsink
- Onboard Active Crossovers HPF / LPF & Variable Bass EQ
- Remote Bass Controller Included (for A50011 model)

MAP



Benefits

- Cost-effective design with excellent thermal dissipation
- Smooth integration with existing components
- Switchable and Impactful psycho-acoustic bass enhancement
- Highly compatible with factory system, delivering outstanding performance straight out of box.

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Industrial Design



Main Body – Extruded Aluminum, Smooth bead-blast

Graphics – Silkscreen, Glossy

Logo – Silkscreen, Glossy

RBC Connectors

End Panel –Satin Powder Coating

Bottom Panel –Satin Powder Coating



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Industrial Design



Audio Connectors

Compliance Label

Bottom Panel – Satin Powder Coating

Power Connectors



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Key Selling Points

1

Compact and High-Efficiency Design

- Modern Class-D amplifier design
- Compact size with extruded heatsink

Advanced Vehicle Integration

- Start-stop vehicle compatible
- OEM Load Detection System supported

2

Enhanced Audio Performance

- Support wider sensitivity for both Line inputs and High-Level Inputs (Line Level: 0.2V - 5V; High level: 1V - 25V)
- On-board active crossovers (HPF / LPF) & Adjustable Bass EQ
- Q-factor adjustment*

3

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Modern Class-D Amplifier Design



Modern Class-D amplifier Design

- Combine modern design with energy-efficient, high-performance amplification

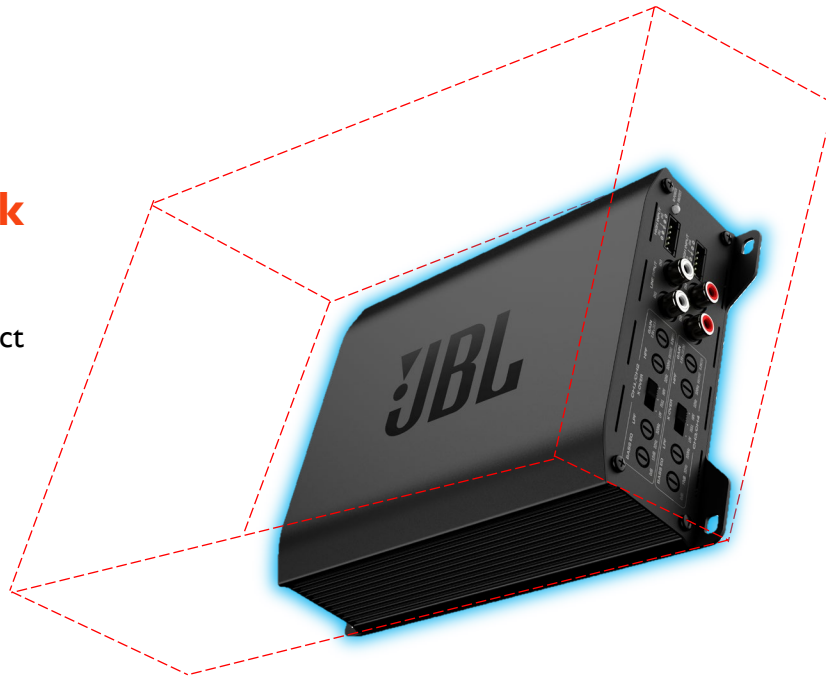
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Compact Size with Extruded Heatsink



Compact Size with Extruded Heatsink

- Space-saving design with effective thermal management, perfect for tight installation spaces
- Aluminum cases aids thermal dissipation



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Start-Stop Engine Compatible



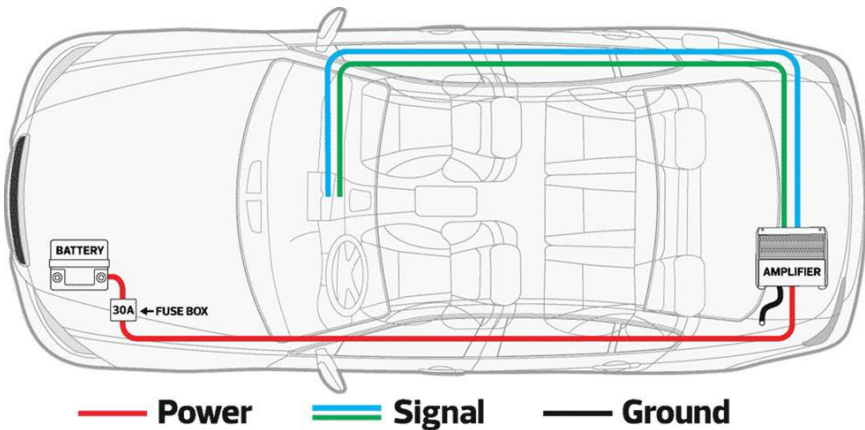
Start-Stop Engine Compatible

- Uninterrupted performance in modern vehicles with start-stop engine technology, users will not hear pop noise when engine shifting between start and stop.
- Comply with ISO16750-2 4.6.3, to adopt criteria of working voltage in the range 6V - 16V to be Start/Stop compatible.



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OEM Load Detect System Compatible



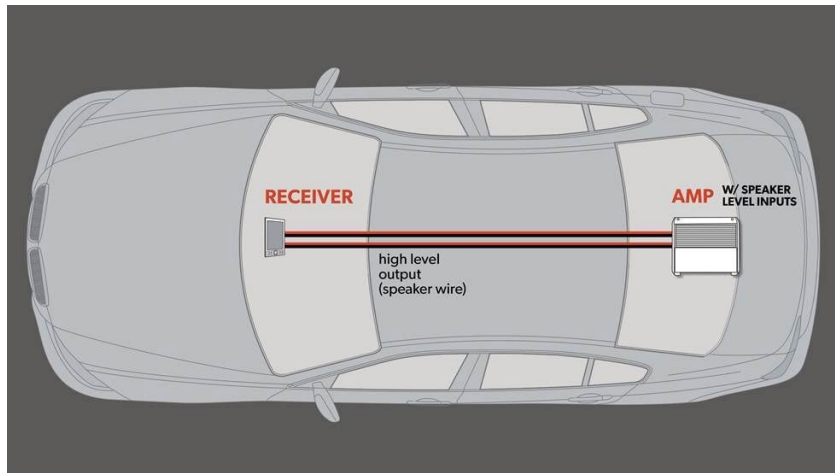
OEM Load Detect System Compatible

- No extra load-generating device is needed, allowing seamless integration with factory system

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Wider sensitivity for both Line inputs and High-Level Inputs



Wider Sensitivity for Both Line Inputs and High-Level Inputs

- Line Inputs and High-Level Inputs supported
- Support Wider input sensitivity:
 - Line Input Level: 0.2V - 5V
 - High Input level: 1V - 25V

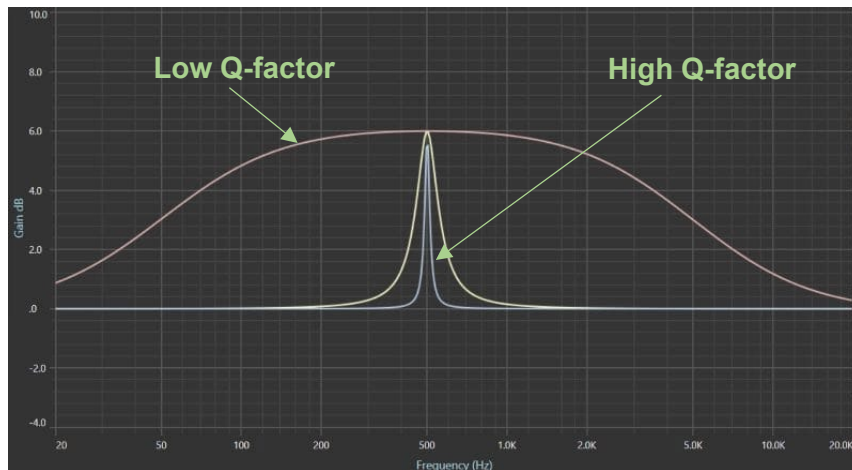
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Q-factor Adjustment

Q-factor Adjustment*

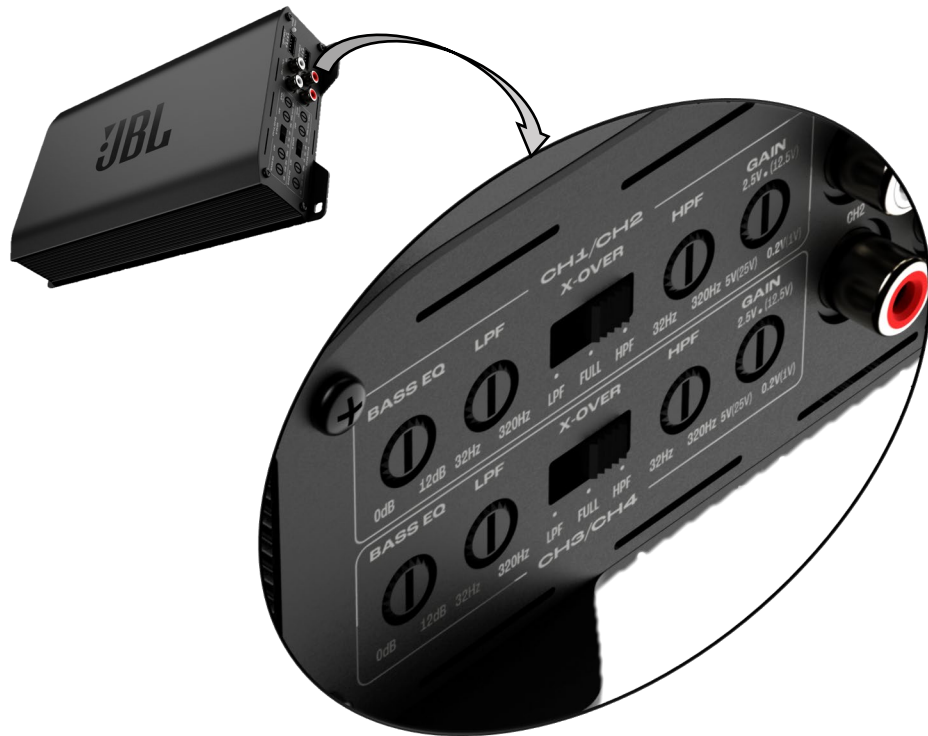
- Allows users to fine-tune bass boost bandwidth for superior sound customizations, offering a unique level of control.



Focus on the frequency range you prefer

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On-board Crossovers (HPF / LPF) & Adjustable Bass EQ



On-board Crossovers (HPF / LPF) & Adjustable Bass EQ

- Crossovers with separate HPF & LPF help on getting most out of the system
- Adjustable Bass EQ allows you to add low-end punch

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Features

Great Performance at Affordable Price Level

Provides true JBL performance at an affordable price while having the features enable you fine tune and optimize audio performance.

Compact Footprint

Includes everything you need to create a quality audio system with the flexibility of mounting it in tight spaces.

Full On-Board Protection

Engineered with on-board circuitry to protect them from shorts, overheating, overvoltage and undervoltage.

Start-Stop Engine Compatible

Seamlessly integrate with vehicles featuring start-stop engines, ensuring consistent audio performance.

Wide Input Sensitivity Range

Including speaker-level inputs from 1Vrms to 25Vrms, and low-level inputs from 200mVrms to 5Vrms let JBL STAGE GT Amplifiers integrate with almost any audio input.

Adjustable Bass EQ

The adjustable bass EQ provides bass boost at 45Hz from 0dB to 12dB, serving as a great tool to optimize subwoofer and loudspeaker performance based on location and enclosure type.

JBL STAGE GT AMPLIFIER



Features

OEM Load Detect Compatible

Compatible with factory head units that require specific resistance for optimal operation.

Crossover Controls

Crossover controls are switchable, allowing you to tailor the sound to suit your environment and application. Unlock precision control over your sound with individual crossover fine-tuning, ranging from 32 to 320 Hz with a 12 dB/octave slope.

Immersive Sound Experience

JBL is dedicated to delivering sound that elevates life.

JBL Industrial Design

At JBL, we take pride in our iconic design heritage. The smooth bead-blast of the anodized extruded aluminum amplifier body, angular end cap design, and glossy JBL logo, all tie together with our classic, current and future design language while concentrating on the design of your lifestyle.

JBL STAGE GT AMPLIFIER



Benchmarks – STAGEA500II

- Cost-effective amplifier with broader compatibility, compacter size and bigger power handle capability

		JBL Stage GT 50011 (GEN 2)	JBL Stage A3001 (V2)	Infinity Primus 3000a (V2)	Kicker 46CXA400.1T
PERFORMANCE	RMS Power at 4 Ohms (Wt x Channels)	300 x 1	180 x 1	180 x 1	150 x 1
	RMS Power at 2 Ohms (Wt x Channels)	500 x 1	300 x 1	300 x 1	300 x 1
	Best Frequency Response	10-320 Hz	10-320 Hz	10-320 Hz	25-200Hz
	THD at Rated RMS Power	1%	1%	1%	1%
	LED indicator (Protect/Power)	Red / White	RED / Blue	RED / Blue	No
FEATURES	Amplifier Class	D	D	D	D
	Input sensitivity	Low level: 0.2 – 5V High level : 1 – 25V	Low level: 0.2 – 5V High level : 0.5 – 12V	Low level: 0.2 – 5V High level : 0.5 – 12V	N/A
	Low-Pass Crossover Frequency	32-320 Hz	32-320 Hz	32-320 Hz	50-200 Hz
	Low-Pass Slope (dB/octave)	12 dB/oct	12 dB/oct	12 dB/oct	12dB/oct
	High-Pass Crossover Frequency	N/A	N/A	N/A	N/A
	High-Pass Slope (dB/octave)	N/A	N/A	N/A	N/A
	Variable Bass Boost Width(Q)	1.5-5	N/A	N/A	N/A
	Bass Boost	0-12 dB	0-12 dB	0-12 dB	0-6 dB
	Bass Boost Frequency	30-100 Hz	40-100 Hz	40-100 Hz	40 Hz
	Fuse Rating	30 x 2	15 x 2	15 x 2	40
	Speaker Level Inputs	Harness	Harness	Harness	RCA
	Preamplifier Outputs	No	No	No	1pair
FITMENTS	Width (inches)	9-23/32	8-13/16	8-13/16	8-1/2
	Height (inches)	1-15/16	2	2	2-3/8
	Depth (inches)	5-7/32	5-3/4	5-3/4	6-3/4
	Weight (Kg)	1.633	1.609	1.609	2.2

JBL STAGE GT AMPLIFIER



Benchmarks – STAGEA6004I

- Cost-effective amplifier with broader compatibility, compacter size and bigger power handle capability

		JBL Stage GT 60041 (GEN 2)	JBL Stage A6004 (V2)	Infinity Primus 6004a (V2)	Sony XM-N1004
PERFORMANCE	RMS Power at 4 Ohms (Wt x Channels)	65 x 4	60 x 4	60 x 4	70 x 4
	RMS Power at 2 Ohms (Wt x Channels)	90 x 4	70 x 4	70 x 4	85 x 4
	Bridged Power (Wt x Channels)	180 x 2	140 x 2	140 x 2	175 x 2
	Best Frequency Response	20-20k Hz	20-20k Hz	20-20k Hz	50-50k Hz
	THD at Rated RMS Power	1%	1%	1%	1%
	LED indicator (Protect/Power)	Red / White	RED / Blue	RED / Blue	NO
FEATURES	Amplifier Class	D	D	D	AB
	Input sensitivity (TBD)	Low level: 0.2 – 5V High level : 1 – 25V	Low level: 0.2 – 5V High level : 0.5 – 12V	Low level: 0.2 – 5V High level : 0.5 – 12V	N/A
	Low-Pass Crossover Frequency	32-320 Hz	32-320 Hz	32-320 Hz	80 Hz
	Low-Pass Slope (dB/octave)	12 dB/octave	12 dB/oct	12 dB/oct	18 dB/octave
	High-Pass Crossover Frequency	32-320 Hz	32-320 Hz	32-320 Hz	80 Hz
	High-Pass Slope (dB/octave)	12 dB/octave	12 dB/oct	12 dB/oct	12 dB/octave
	Bass Boost	0-12 dB	0-12 dB	0-12 dB	N/A
	Bass Boost Frequency	45 Hz	45 Hz	45 Hz	N/A
	Fuse Rating	20 x 2	15 x 2	15 x 2	25 x 2
	Speaker Level Inputs	Harness	Harness	Harness	No
FITMENTS	Width (inches)	7-3/8	7-5/8	7-3/16	13-1/2
	Height (inches)	1-15/16	2	2	2-3/16
	Depth (inches)	5-7/32	5-3/4	5-3/4	9-5/8
	Weight (Kg)	1.338	1.38	1.38	2.7

JBL STAGE GT AMPLIFIER



Benchmarks – STAGEA8002I

- Cost-effective amplifier with broader compatibility, compacter size and bigger power handle capability

		JBL Stage GT 80021 (GEN 2)	JBL Stage A6002 (V2)	Infinity Primus 6002a (V2)	Sony XM-N502
PERFORMANCE	RMS Power at 4 Ohms (Wt x Channels)	80 x 2	60 x 2	60 x 2	65 x 2
	RMS Power at 2 Ohms (Wt x Channels)	130 x 2	105 x 2	105 x 2	85 x 2
	Bridged Power (Wt x Channels)	260 x 1	210 x 1	210 x 1	175 x 1
	Best Frequency Response	20-20k Hz	20-20k Hz	20-20k Hz	5-50k Hz
	THD at Rated RMS Power	1%	1%	1%	1%
	LED indicator (Protect/Power)	Red / White	RED / Blue	RED / Blue	NO
FEATURES	Amplifier Class	D	D	D	AB
	Input sensitivity (TBD)	Low level: 0.2 – 5V High level : 1 – 25V	Low level: 0.2 – 5V High level : 0.5 – 12V	Low level: 0.2 – 5V High level : 0.5 – 12V	N/A
	Low-Pass Crossover Frequency	32-320 Hz	32-320 Hz	32-320 Hz	80 Hz
	Low-Pass Slope (dB/octave)	12 dB/octave	12 dB/oct	12 dB/oct	18 dB/octave
	High-Pass Crossover Frequency	32-320 Hz	32-320 Hz	32-320 Hz	N/A
	High-Pass Slope (dB/octave)	12 dB/octave	12 dB/oct	12 dB/oct	N/A
	Bass Boost	0-12 dB	0-12 dB	0-12 dB	N/A
	Bass Boost Frequency	45 Hz	45 Hz	45 Hz	N/A
	Fuse Rating	25	20	20	25
	Speaker Level Inputs	Harness	Harness	Harness	No
FITMENTS	Width (inches)	6-3/16	6-1/4	6-1/4	10-11/16
	Height (inches)	1-15/16	2	2	2-3/16
	Depth (inches)	5-7/32	5-3/4	5-3/4	7-5/16
	Weight (Kg)	1.061	1.16	1.16	1.5

JBL STAGE GT AMPLIFIER



Benchmarks – STAGEA9004I

- Cost-effective amplifier with broader compatibility, compacter size and bigger power handle capability

		JBL Stage GT 90041 (GEN 2)	JBL Stage A9004 (V2)	Infinity Primus 9004a (V2)	Sony XM-N1004
PERFORMANCE	RMS Power at 4 Ohms (Wt x Channels)	90 x 4	90 x 4	90 x 4	70 x 4
	RMS Power at 2 Ohms (Wt x Channels)	130 x 4	110 x 4	110 x 4	85 x 4
	Bridged Power (Wt x Channels)	260 x 2	220 x 2	220 x 2	175 x 2
	Best Frequency Response	20-20k Hz	20-20k Hz	20-20k Hz	50-50k Hz
	THD at Rated RMS Power	1%	1%	1%	1%
	LED indicator (Protect/Power)	Red / White	RED / Blue	RED / Blue	NO
FEATURES	Amplifier Class	D	D	D	AB
	Input sensitivity	Low level: 0.2 – 5V High level : 1 – 25V	Low level: 0.2 – 5V High level : 0.5 – 12V	Low level: 0.2 – 5V High level : 0.5 – 12V	N/A
	Low-Pass Crossover Frequency	32-320 Hz	32-320 Hz	32-320 Hz	80 Hz
	Low-Pass Slope (dB/octave)	12 dB/octave	12 dB/octave	12 dB/octave	18 dB/octave
	High-Pass Crossover Frequency	32-320 Hz	32-320 Hz	32-320 Hz	80 Hz
	High-Pass Slope (dB/octave)	12 dB/octave	12 dB/octave	12 dB/octave	12 dB/octave
	Bass Boost	0-12 dB	0-12 dB	0-12 dB	N/A
	Bass Boost Frequency	45 Hz	45 Hz	45 Hz	N/A
	Fuse Rating	30 x 2	20 x 2	20 x 2	25 x 2
	Speaker Level Inputs	Harness	Harness	Harness	No
FITMENTS	Width (inches)	9-11/32	5-11/16	5-13/16	13-1/2
	Height (inches)	1-15/16	2	2	2-3/16
	Depth (inches)	5-7/32	10-3/5	10-3/4	9-5/8
	Weight (Kg)	1.702	1.806	1.806	2.7

JBL STAGE GT AMPLIFIER

Specification Sheets



STAGE GT AMPLIFIERS

High-performance Car Amplifiers



Power you will feel at your core.

The JBL STAGE GT series high-performance Class-D amplifiers are available in four-channel, two-channel, and mono-channel models, designed to meet a variety of system configurations. Featuring advanced engineering capabilities, these amplifiers optimize performance for the ultimate listening experience. The JBL STAGE GT amplifiers are easily installed and remarkably reliable. The compact amplifiers are equipped with user controls, including a bass EQ as well as HPF and LPF crossover controls, allowing you to tailor the sound to suit the characteristics of your vehicle.

Features

- ▶ Great Performance at an Affordable Price
- ▶ Compact Footprint
- ▶ Full On-Board Protection
- ▶ Start/Stop Compatible
- ▶ Wide Input Sensitivity Range
- ▶ Adjustable Bass EQ
- ▶ OEM Load Detect Compatible
- ▶ Crossover Controls
- ▶ Immersive Sound Experience
- ▶ JBL Industrial Design



STAGE GT AMPLIFIERS

High-performance Car Amplifiers

Features and Benefits

Great Performance at an Affordable Price

JBL STAGE GT Amplifiers provide true JBL performance at an affordable price while having the features you need to properly fine tune and optimize your audio system performance.

Compact Footprint

JBL STAGE GT Amplifiers have everything you need to create a quality audio system with the flexibility of mounting it in tight spaces.

Full On-Board Protection

JBL STAGE GT Amplifiers are engineered with on-board circuitry to protect them from shorts, overloading, overvoltage and undervoltage.

Start/Stop Compatible

JBL STAGE GT Amplifiers seamlessly integrate with vehicles featuring start/stop engines, ensuring consistent audio performance no matter where your journey leads you.

Wide Input Sensitivity Range

Including speaker-level inputs from 1Vrms to 25Vrms, and low level inputs from 200mVrms to 5Vrms let JBL STAGE GT Amplifiers integrate with almost any audio input.

Adjustable Bass EQ

The adjustable bass EQ provides bass boost at 40Hz from 0dB to 12dB, serving as a great tool to optimize subwoofer and loudspeaker performance based on location and enclosure type.

OEM Load Detect Compatible

The OEM load detection system ensures compatibility with factory head units that require specific resistance for optimal operation. This feature enhances compatibility without the need for extra hardware, streamlining the installation process.

Crossover Controls

Crossover controls are adjustable, allowing you to tailor the sound to suit your environment and application. Unlink precision control over your sound with individual crossover fine tuning, ranging from 32 to 320 Hz with a 12 dB/octave slope.

Immersive Sound Experience

JBL believes that life is defined by what you experience. Music helps people have experiences that are more extraordinary, by fully immersing them in each moment. To help people have rich experiences, JBL creates sound that draws people in and heightens the feeling. JBL is dedicated to delivering sound that elevates life.

JBL Industrial Design

At JBL, we take pride in our iconic design heritage. The smooth bezel blend of the anodized extruded aluminum amplifier body, angular end cap design, and glossy JBL logo, all tie together with our classic, current and future design, leaving while concentrating on the design of your lifestyle.

What's In the Box

STAGE GT 8002L Amplifier

- 2x JBL Stickers
- 1x QR Code Owners Manual
- 1x Safety Sheet
- 2x Spare Fuse
- 1x High level Input Cable
- 1x Mounting Screw with Washer
- 2x Allen Key

STAGE GT 8004L Amplifier

- 2x JBL Stickers
- 1x QR Code Owners Manual
- 1x Safety Sheet
- 2x Spare Fuse
- 1x High level Input Cable
- 1x Mounting Screw with Washer
- 2x Allen Key

STAGE GT 6004L Amplifier

- 2x JBL Stickers
- 1x QR Code Owners Manual
- 1x Safety Sheet
- 2x Spare Fuse
- 1x High level Input Cable
- 1x Mounting Screw with Washer
- 2x Allen Key

STAGE GT 5001L Amplifier

- 1x Remote Bass Control Cable
- 2x Spare Fuse
- 1x High level Input Cable
- 1x Mounting Screw with Washer
- 2x Allen Key

STAGE GT 5001L Amplifier

- 1x Remote Bass Control Cable
- 2x Spare Fuse
- 1x High level Input Cable
- 1x Mounting Screw with Washer
- 2x Allen Key

Technical Specifications

JBL STAGE GT 8002L Amplifier

- ▶ Max Power: 800W peak
- ▶ Power Output: 200Wrms x 2 @ Bridged 4 ohms full range
- ▶ Power Output: 100Wrms x 4 @ 4 ohms full range
- ▶ Power Output: 50Wrms x 8 @ 2 ohms full range
- ▶ Frequency Response: 20Hz - 20kHz ±1dB
- ▶ THD+N@100Hz: 1%
- ▶ Input Sensitivity LOW: 0.2V - 5V, HIGH: 1V - 25V
- ▶ High/Low Pass Filter: Variable 32Hz - 320Hz
- ▶ Bass EQ: 40Hz - 0 - 12dB Variable
- ▶ Protection: DCP, OVP, UVP, OCP, OTP
- ▶ Operating Voltage: 9V - 18V
- ▶ Fuse Rating: 25A

JBL STAGE GT 8004L Amplifier

- ▶ Max Power: 1200W peak
- ▶ Power Output: 180Wrms x 2 @ Bridged 4 ohms full range
- ▶ Power Output: 90Wrms x 4 @ 2 ohms full range
- ▶ Power Output: 60Wrms x 8 @ 4 ohms full range
- ▶ Frequency Response: 20Hz - 20kHz ±1dB
- ▶ THD+N@100Hz: 1%
- ▶ Input Sensitivity LOW: 0.2V - 5V, HIGH: 1V - 25V
- ▶ High/Low Pass Filter: Variable 32Hz - 320Hz
- ▶ Bass EQ: 40Hz - 0 - 12dB Variable
- ▶ Protection: DCP, OVP, UVP, OCP, OTP
- ▶ Operating Voltage: 9V - 18V
- ▶ Fuse Rating: 30A x 2

JBL STAGE GT 6004L Amplifier

- ▶ Max Power: 1200W peak
- ▶ Power Output: 200Wrms x 2 @ Bridged 4 ohms full range
- ▶ Power Output: 100Wrms x 4 @ 2 ohms full range
- ▶ Power Output: 50Wrms x 8 @ 4 ohms full range
- ▶ Frequency Response: 20Hz - 20kHz ±1dB
- ▶ THD+N@100Hz: 1%
- ▶ Input Sensitivity LOW: 0.2V - 5V, HIGH: 1V - 25V
- ▶ High/Low Pass Filter: Variable 32Hz - 320Hz
- ▶ Bass EQ: 40Hz - 0 - 12dB Variable
- ▶ Protection: DCP, OVP, UVP, OCP, OTP
- ▶ Operating Voltage: 9V - 18V
- ▶ Fuse Rating: 30A x 2

JBL STAGE GT 5001L Amplifier

- ▶ Max Power: 1200W peak
- ▶ Power Output: 50Wrms x 1 @ 2 ohms
- ▶ Power Output: 30Wrms x 1 @ 4 ohms
- ▶ Frequency Response: 20Hz - 20kHz ±1dB
- ▶ THD+N@100Hz: 1%
- ▶ Input Sensitivity LOW: 0.2V - 5V, HIGH: 1V - 25V
- ▶ High/Low Pass Filter: Variable 32Hz - 320Hz
- ▶ Bass EQ: 40Hz - 0 - 12dB Variable
- ▶ Phase Control: 0° - 180° Variable
- ▶ Low Pass Filter: 32Hz - 320Hz
- ▶ Protection: DCP, OVP, UVP, OCP, OTP
- ▶ Operating Voltage: 9V - 18V
- ▶ Fuse Rating: 30A x 2

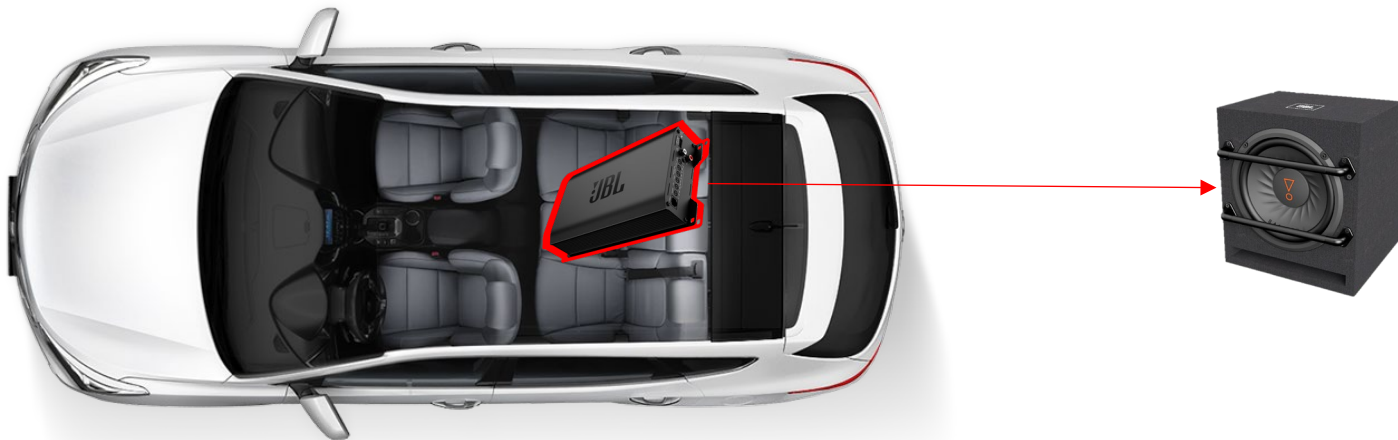


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JBL STAGE GT AMPLIFIER

How to Use – STAGEA500I I



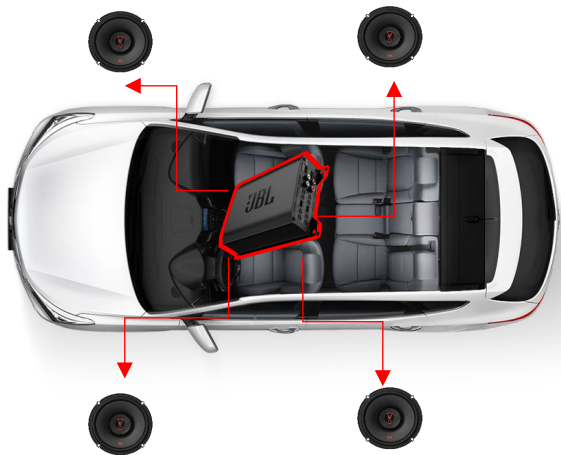
MONO SUBWOFFER AMPLIFIER - STAGEA500I I

RMS Power at 4 Ohms (Wt x Channels)	300 x 1
RMS Power at 2 Ohms (Wt x Channels)	500 x 1

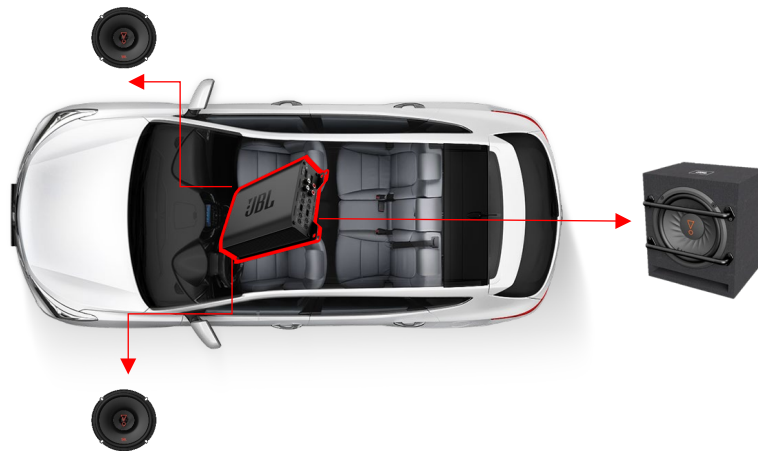
JBL STAGE GT AMPLIFIER

How to Use – STAGEA6004I

JBL



OR



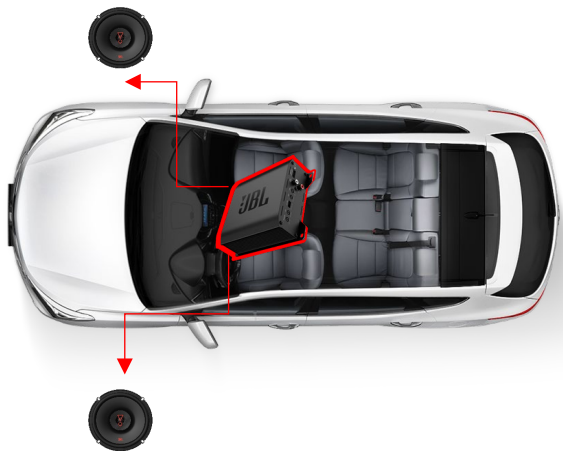
4 CHANNEL AMPLIFIER – STAGEA6004I

RMS Power at 4 Ohms (Wt x Channels)	65 x 4
RMS Power at 2 Ohms (Wt x Channels)	90 x 4
Bridged Power at 4 Ohms (Wt x Channels)	180 x 2

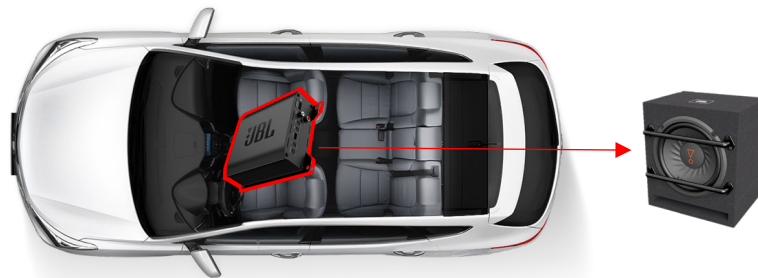
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How to Use – STAGEA8002I

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OR



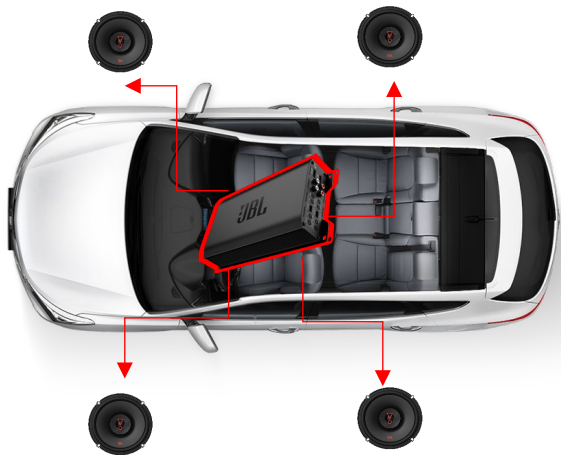
2 CHANNEL AMPLIFIER – STAGEA8002I

RMS Power at 4 Ohms (Wt x Channels)	80 x 2
RMS Power at 2 Ohms (Wt x Channels)	130 x 2
Bridged Power at 4 Ohms (Wt x Channels)	260 x 1

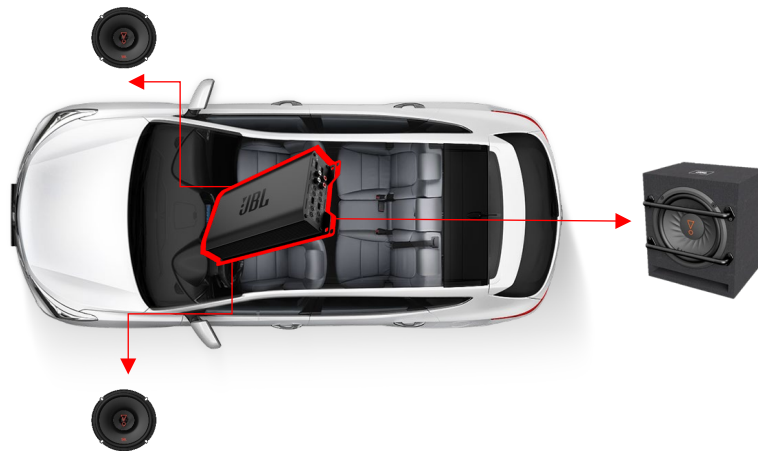
JBL STAGE GT AMPLIFIER

How to Use – STAGEA9004I

JBL



OR



4 CHANNEL AMPLIFIER – STAGEA9004I

RMS Power at 4 Ohms (Wt x Channels)	90 x 4
RMS Power at 2 Ohms (Wt x Channels)	130 x 4
Bridged Power at 4 Ohms (Wt x Channels)	260 x 2



**THANK
YOU**