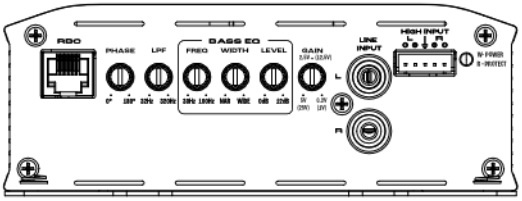
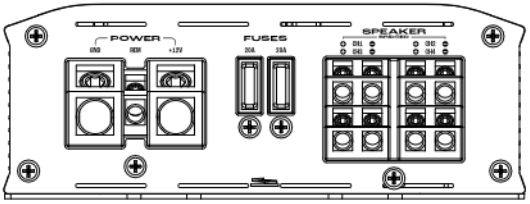
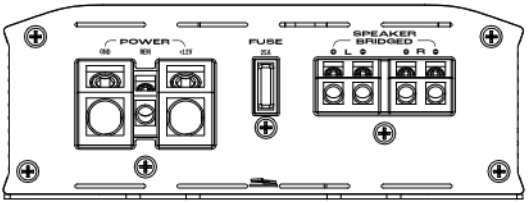
JBL Stage GT 50011, 80021, 60041, and 90041 Amplifiers



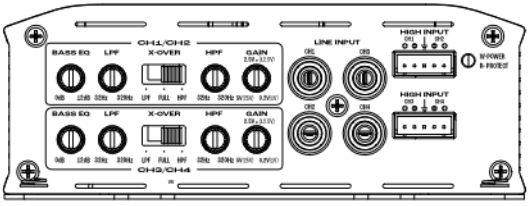
Stage GT 50011



Stage GT 60041



Stage GT 80021



Stage GT 90041

Owner's Manual EN

Mode d'emploi FR

Bedienungsanleitung DE

Manual del propietario ES

Manuale d'uso IT

Manual do utilizador PT

用户手册 ZH-CN

使用者手冊 ZH-TW

Panduan Pengguna ID

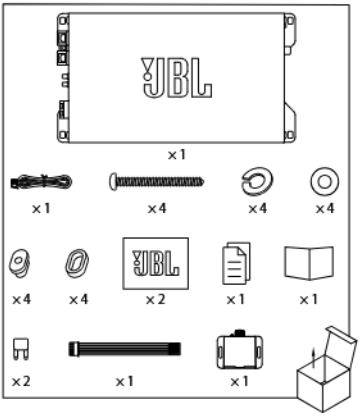
사용자 설명서 KO

JBL Stage GT 50011, 80021, 60041, and 90041 Amplifiers

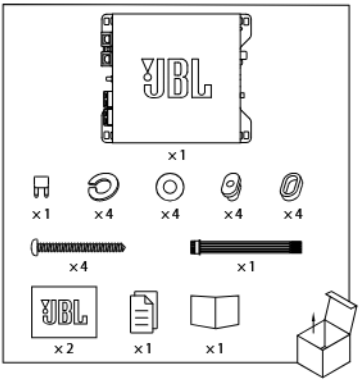
EN

WHAT'S IN THE BOX

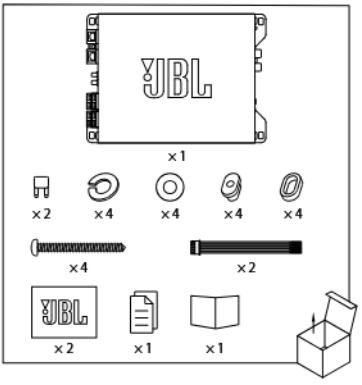
JBL Stage GT 50011



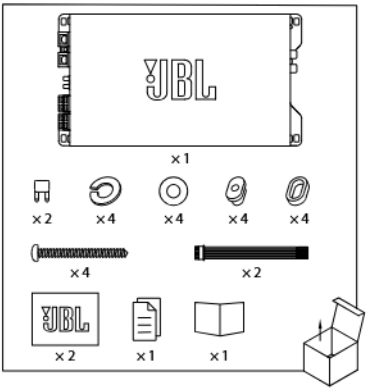
JBL Stage GT 80021



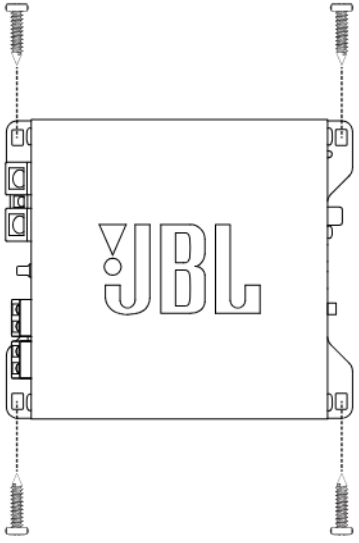
JBL Stage GT 60041

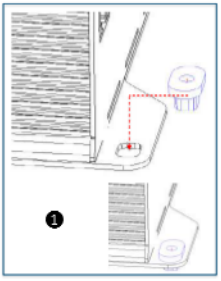


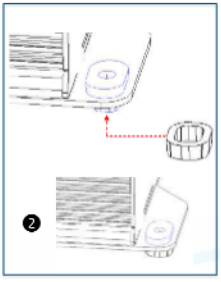
JBL Stage GT 90041

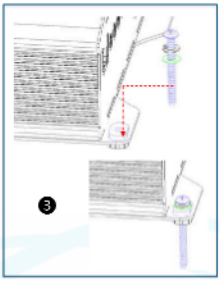


MOUNTING THE AMP









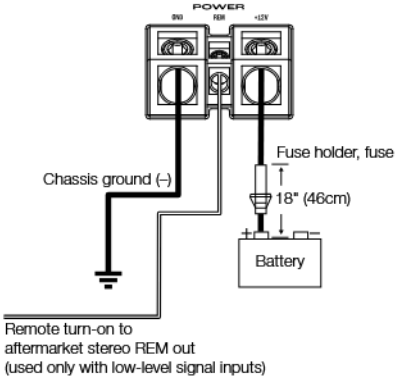
Note: It is recommended that you make all wire connections before mounting the amplifier.

IMPORTANT: Disconnect the vehicle's negative (–) battery terminal before beginning the installation.

- Always wear protective eyewear when using tools.
- Choose a safe mounting location, away from moisture. Check clearances on both sides of a planned mounting surface. Be sure that screws or wires will not puncture brake lines, fuel lines, or wiring harnesses and that wire routing will not interfere with the safe vehicle operation. Use caution when drilling or cutting in the mounting area.
- Choose a location that provides enough air circulation.
- Do not mount the amplifier with the heat sink facing downward, as this interferes with cooling.
- Mount the amplifier so that it will not be damaged by the feet of backseat passengers or shifting cargo in the trunk.

WIRING FOR POWER AND GROUND

At amplifier:

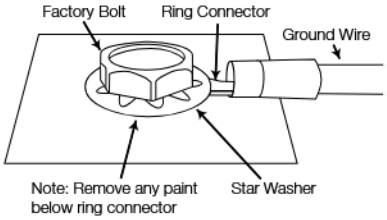


NOTE: If you are using high-level input signals, you do not need to connect the remote turn-on wire. In high-level mode, the amplifier automatically turns on when it detects signal.

Recommended fuse ratings:

- Stage GT 50011: 60A
- Stage GT 80021: 25A
- Stage GT 60041: 40A
- Stage GT 90041: 60A

At ground location:



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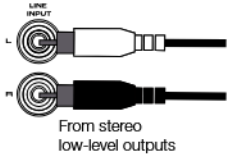
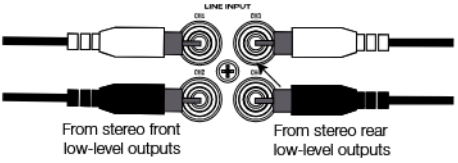
WIRING FOR INPUT SIGNAL

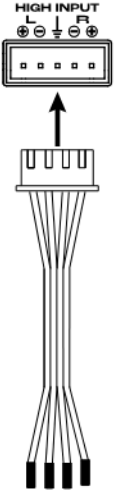
Stage GT 50011 and 80021 low-level signals



Stage GT 60041 and 90041 low-level signals



Stage GT 50011 and 80021 high-level signals

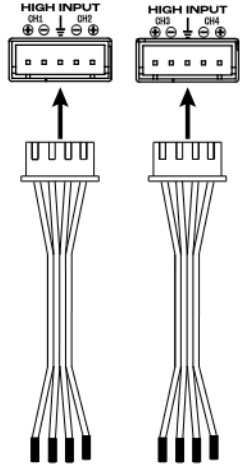


Note: Be sure to observe proper polarity when connecting the vehicle speaker wires to the high-level adapter.

Car Aftermarket Industry Standard Color Coding	
CH1+ (Front Left +)	White
CH1- (Front Left -)	White/Black
CH2+ (Front Right +)	Gray
CH2- (Front Right -)	Gray/Black

EN

Stage GT 60041 and 90041 high-level input signals



To vehicle speaker output wires

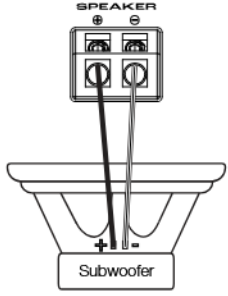
Car Aftermarket Industry Standard	
Color Coding	
CH1+ (Front Left +)	White
CH1- (Front Left -)	White/Black
CH2+ (Front Right +)	Gray
CH2- (Front Right -)	Gray/Black
CH3+ (Rear Left +)	Green
CH3- (Rear Left -)	Green/Black
CH4+ (Rear Right +)	Purple
CH4- (Rear Right -)	Purple/Black

WIRING FOR OUTPUT

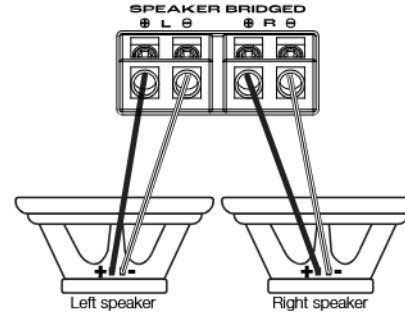
Recommended speaker impedances:

- 2 ohm – 4 ohm (stereo inputs)
- 4 ohm (bridged inputs)

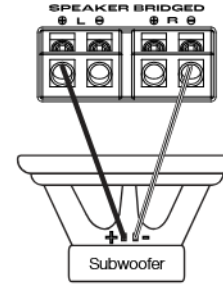
Stage GT 50011 mono output



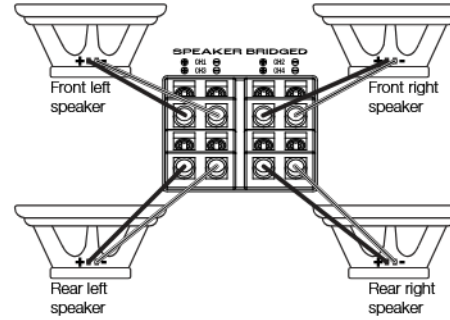
Stage GT 80021 2-channel output



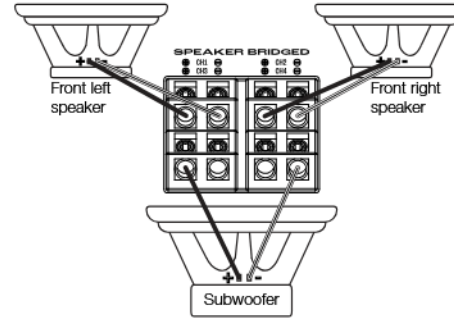
Stage GT 80021 mono (bridged) output



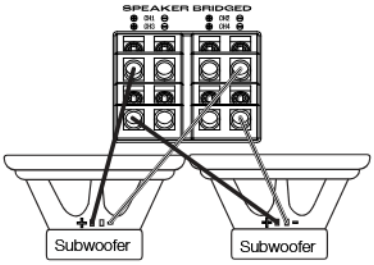
Stage GT 60041 and 90041 4-channel output



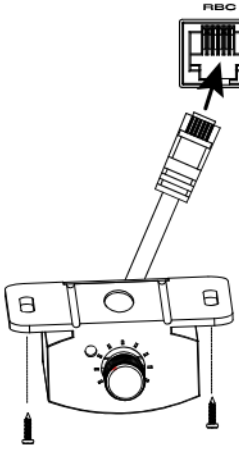
Stage GT 60041 and 90041 3-channel output



Stage GT 60041 and 90041 2-channel output



Connecting the remote bass controller (Stage GT 50011 only)



SETTING GAIN, CROSSOVERS, AND BASS EQ

Setting the gain

1. Start with the level control set to 5V, and the crossover control rotated midway.
2. Choose music you're familiar with.
3. Turn the volume control on your head unit to ¾ of its total output.
4. Adjust the gain control clockwise, listening carefully to the bass output. If you hear distortion, turn the gain control counterclockwise to decrease the gain.

Selecting the crossover mode

Choose HPF to allow only frequencies above a certain point to reach your speakers. Recommended if you are using a subwoofer in your system, as it keeps low bass from your full-range speakers.

Choose LPF to allow only frequencies below a certain point to reach your speakers. Recommended if you are bridging channels to power a subwoofer.

Choose FULL to allow all frequencies to reach your speakers. Recommended if you are not using a subwoofer in your system.

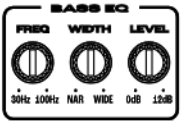
Note: The Stage GT 50011 features a low-pass crossover only.

Selecting the crossover frequency

Choose the crossover point to suit listening preferences. Turn the dials counterclockwise to lower the crossover point, and clockwise to raise the crossover point. Exact crossover settings for coaxial speakers and subwoofers depend on your listening preferences.

Selecting the Bass EQ – Stage GT 80021, 60041, and 90041

Choose the level of the bass output according to your listening preferences, from 0 to +12 dB. Turn the dial clockwise to raise the Bass EQ output level, and counterclockwise to lower it.



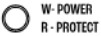
Selecting the Bass EQ – Stage GT 50011 only

1. Adjust the FREQ dial to select the center frequency – the primary bass frequency between 30 Hz and 100 Hz you want to enhance. Turn the dial clockwise to select a higher frequency, and counterclockwise to select a lower frequency. Which you choose depends on your listening preferences.
2. Adjust the WIDTH dial to determine how many adjacent frequencies are also enhanced. Turn the dial clockwise to select a wide range of frequencies, and counterclockwise to select a narrow range.
3. Adjust the LEVEL dial to select the output level of your bass signal, from 0 to +12 dB. Turn the dial clockwise to raise the output level, and counterclockwise to lower it.

Selecting the subwoofer phase – Stage GT 50011 only

Switch the phase back and forth between 0° and 180° to determine which setting provides the most clean bass output.

POWER/PROTECT STATUS INDICATOR



If the power/protect indicator is illuminated in white, the amplifier is on and performing normally. If the indicator is red and no sound is playing, the amplifier is in protect mode. See "Troubleshooting" for possible causes.

EN

SPECIFICATIONS

	Stage GT 50011	Stage GT 80021	Stage GT 60041	Stage GT 90041
Rated power output @ 4 ohms	300 watts RMS x 1	80 watts RMS x 2	65 watts RMS x 4	90 watts RMS x 4
Rated power output @ 2 ohms	500 watts RMS x 1	130 watts RMS x 2	90 watts RMS x 4	130 watts RMS x 4
Peak output	1220 watts x 1 @ 2 ohms	800 watts x 1 @ 4 ohms	1240 watts x 2 @ 4 ohms	1480 watts x 2 @ 4 ohms
Rated power output in bridged mode	n/a	260 watts RMS x 1 @ 4 ohms	180 watts RMS x 2 @ 4 ohms	260 watts RMS x 2 @ 4 ohms
Frequency response (±1dB)	10 Hz – 320 Hz	20 Hz – 20 kHz	20 Hz – 20 kHz	20 Hz – 20 kHz
Crossover frequencies	32-320 Hz variable low-pass, 12 dB/ octave	32-320 Hz variable high- and low-pass, 12 dB/octave	32-320 Hz variable high- and low-pass, 12 dB/octave	32-320 Hz variable high- and low-pass, 12 dB/octave
Bass EQ	0-12 dB @ 30-100 Hz, variable	0-12 dB @ 45 Hz	0-12 dB @ 45 Hz	0-12 dB @ 45 Hz
Line-level input sensitivity	0.2 Vrms – 5.0 Vrms	0.2 Vrms – 5.0 Vrms	0.2 Vrms – 5.0 Vrms	0.2 Vrms – 5.0 Vrms
High-level input sensitivity	1.0 Vrms – 25 Vrms	1.0 Vrms – 25 Vrms	1.0 Vrms – 25 Vrms	1.0 Vrms – 25 Vrms
Signal-to-noise ratio at 1W @ 4 ohms	>75 dB	>75 dB	>75 dB	>75 dB
THD+N @ rated power	1%	1%	1%	1%
Fuse rating	30A x 2	25A x 1	20A x 2	30A x 2
Operating voltage	9V – 16V	9V – 16V	9V – 16V	9V – 16V
Protection	DC, OVP, UVP, OCP, OTP	DC, OVP, UVP, OCP, OTP	DC, OVP, UVP, OCP, OTP	DC, OVP, UVP, OCP, OTP
Dimensions (W x H x D)	9-23/32" x 1-15/16" x 5-7/32" (246.9mm x 49.5mm x 132.5mm)	6-3/16 x 1-15/16" x 5-7/32" (156.9mm x 49.5mm x 132.5mm)	7-3/8 x 1-15/16" x 5-7/32" (186.9mm x 49.5mm x 132.5mm)	9-11/32 x 1-15/16" x 5-7/32" (236.9mm x 49.5mm x 132.5mm)
Weight	1633g (3.6 lb.)	1061g (2.34 lb.)	1338g (2.95 lb.)	1702g (3.75 lb.)
Recommended wire gauge	4	8	4	4
Max. operating temperature:	70°C	70°C	70°C	70°C

EN

TROUBLESHOOTING

PROBLEM	CAUSE AND SOLUTION
No audio and POWER INDICATOR is off.	No voltage at BATT+ and/or REM terminals, or bad or no ground connection. Check voltages at amplifier terminals with VOM.
No audio and PROTECT INDICATOR flashes every 4 seconds.	DC voltage on amplifier output. Amplifier may need service; see enclosed warranty card for service information.
No audio and PROTECT and POWER INDICATORS flash.	Voltage less than 9V on BATT+ connection. Check vehicle charging system.
No audio and PROTECT INDICATOR is on.	Amplifier is overheated. Make sure amplifier cooling is not blocked at mounting location. Or, there may be voltage greater than 16V (or less than 8.5V) on BATT+ connection. Check vehicle charging system.
Amplifier fuse keeps blowing.	The wiring is connected incorrectly or there is a short circuit. Check wiring connections.
Distorted audio.	Gain is not set properly. Check setting. Check wires for shorts or grounds. Amplifier or source unit may be defective.
Distorted audio and PROTECT INDICATOR flashes.	Short circuit in speaker or wire. Remove speaker leads one at a time to locate shorted speaker or wire, and repair.
Music lacks dynamics or "punch."	Speakers are not connected properly. Check speaker connections for proper polarity.
Engine noise—whining or clicking—in system when the engine is on.	Amplifier is picking up alternator noise. First, check ground connection on the amplifier – a loose or improper ground is one of the main causes for noise. Turn down gain. Move RCA audio cables away from power wires. Installing an alternator noise filter on power line between battery and alternator might also be necessary.