



RUBICON 255/355/555 5/3 Channel Power Amplifiers

Owner's Manual and Installation Guide

Congratulations!

You now own a Soundstream RUBICON amplifier, the product of an uncompromising design and engineering philosophy. Your Soundstream RUBICON amplifier will outperform any other amplifier in the world.

To maximize the performance of your system, we recommend that you thoroughly acquaint yourself with its capabilites and features. Please retain this manual and your sales receipt for future reference.

Soundstream amplifiers are the result of American innovation and craftmanship with the highest quality control standards. When properly installed, they will provide you with many years of listening pleasure. Should your amplifier ever need service or replacement due to theft, please record the following information which will help protect your investment.

Model and Serial #	HELLM
Dealer's Name	
Date of Purchase	eccico:
Installation Shop	10.013
Installation Date	

CAUTION!

Prolonged listening at high levels may result in hearing loss. Even though your new Soundstream Rubicon amplifier sounds better than anything you've ever heard, exercise caution to prevent hearing damage.

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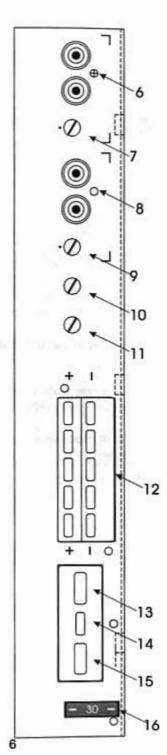
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DESIGN FEATURES

- RUBI™(Rapid-Use Branched Impulse) This new proprietary power supply topology eliminates "power sags" during low frequency reproduction by rapidly increasing the duty cycle, stabilizing the power supply and allowing it to deliver the power required when reproducing low frequencies. Also, greater reserve gate power is stored for low voltage situations that occur during extreme conditions.
- ◆ STACT™ (STabilized Apex Current Topology) Reduces power supply stress by 50%. Typical designs degrade the stereo image due to phase reversal of even-order harmonic distortion that occurs between the inverted channels. In the STACT design, inversion is done at the power amplifier drive stage. Since the fully symmetrical power amplifier produces no even-harmonic distortion itself and all preamplifier circuitry is run completely in-phase, no even harmonic distortion phase reversal occurs.
- Trident™ Protection Topology provides three types of protection:
 - 1. Output protection against short circuits or improper loads.
 - Ground fault detection: Shuts down the amplifier when a significant voltage (>5 Volts) fluctuation occurs between electrical (turn-on lead) and battery ground.
 - Thermal Protection: Puts the amplifier into thermal rollback or shuts the amplifier down in extreme thermal conditions.
- Hawkins Bass Control provides a focused subwoofer boost (0-9 dB at 45 Hz) and routes otherwise wasted amplifier power back to the audible bandwidth.
- ◆ Harmonic Bass Alignment™ The 2nd and 3rd order harmonic peaks are critically aligned to fundamental peaks at low frequencies. This produces tighter, more accurate bass reproduction.
- ◆ Drive Delay II™ Amplifier section powers up 2 to 3 seconds after the power supply eliminating turn-on pops. Turn off process is reversed: Amplifier section turns off first, followed by the power supply.
- ◆ Dynamically Optimized Power Grid™ Power grid is evenly distributed between primary and secondary power supplies, providing greater dynamics and improved RF filtering.

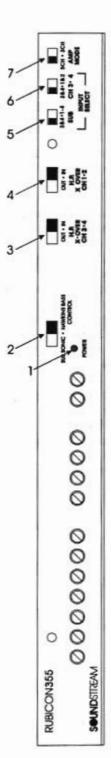
- Chassisink™ All transistors are ideally located and sandwiched between the circuit board and the heatsink to provide cool efficient amplifier operation.
- Differentially Balance RCA Input eliminates ground loop related noise in the audio path.
- Continuously Variable Crossover Networks (355 & 555): 12 dB/Octave 2-way highpass crossover, variable from 65 to 220 Hz and 24 dB/Octave lowpass crossovers variable from 30 to 120 Hz. 555 only 12 dB/Octave 3-way crossover which can be selected for mid-bass (65 to 500 Hz) or midrange (65 to 4,000 Hz) operation.
- Built-in Staggered S.I.P. Crossover Network (255) Built-in two-way electronic crossover is designed to send high pass information to channels 1-4 of the amplifier and send low pass to channel 5 of the amplifier. 12dB/oct Highpass and Lowpass crossovers.
- Flexible Stereol Input Level Control allows 200 mV to 5 V input sensitivity.
- Symmetrical Discrete Balanced Class A Drive Boards Auto-adjust for linear performance while driving low impedance loads.
- Removable Front Spoiler allows for stealth installation of RCA, Speaker and Power wiring.

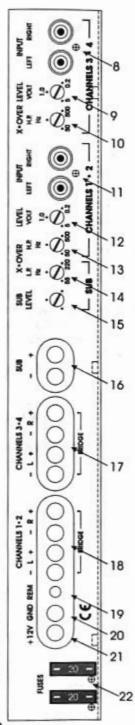




KEY TO CALLOUTS

- Power LED Indicates amplifier power.
- Subsonic / Hawkins Bass Control Switch Select "SUB SONIC" to engage the Sub Sonic filter at 13 Hz. Select "HAWKINS BASS CONTROL" to engage the subwoofer channel's high pass filter @ 45 Hz with +6 dB boost for optimum bass.
- Subwoofer Channel Input Select Selectable inputs; "CH 1-4" for non-fading bass control, "CH 3&4" for front to rear fading bass control.
- Channels 3&4 Input Select Selectable inputs from internal (CH 1&2) or external (CH 3&4 local RCA inputs).
- Amp Mode Switch (Channels 1-4) Select "3CH" for bridged mono output in 3 channel operation (use input channels 1 & 2). Select "5CH" for stereo output in 5 channel operation.
- 6. Inputs Right and left channel RCA inputs for channels 3&4.
- Input Level Channels 3&4 input level control.
- Inputs Right and left channel RCA inputs for channels 1&2.
- Input Level Channels 1&2 input level control.
- Sub Input Level Subwoofer channel input level control.
- Low Pass Filter Control Adjustment (Subwoofer Channel) crossover frequency control for the internal low pass filter.
- Speaker Connection Terminal Speaker connections for CH 1-4 & Subwoofer Channel.
- GND Main ground connection. Bolt to a clean chassis point in the vehicle.
- 14. REMOTE Remote turn-on input from the head unit. Accepts +12V.
- +12V Connected to a fuse or circuit breaker, then to the battery's positive terminal.
- 16. Main Fuse Main power supply fuse.

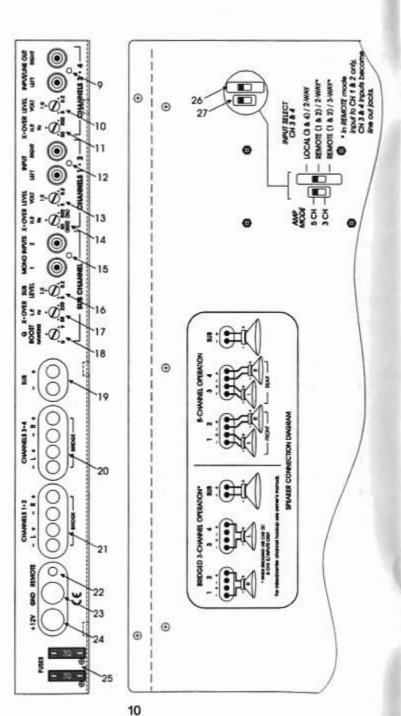




KEY TO CALLOUTS

- Power LED Indicates amplifier power.
- Subsonic / Hawkins Bass Control Switch Select "SUB SONIC" to engage the Sub Sonic filter at 13 Hz. Select "HAWKINS BASS CONTROL" to engage the subwoofer channel's high pass filter @ 45 Hz with +6 dB boost for optimum bass.
- High Pass XOVER Switch (Channels 1&2) Select "IN" for use with the internal crossover or "OUT" for use with external crossover.
- High Pass XOVER Switch (Channels 3&4) Select "IN" for use with the internal crossover or "OUT" for use with external crossover.
- Subwoofer Channel Input Select Selectable inputs; "CH 1-4" for non-fading bass control, "CH 3&4" for rear fading bass control.
- Channels 3&4 Input Select Selectable inputs from internal (CH 1&2) or external (CH 3&4 local RCA inputs).
- Amp Mode Switch (Channels 1-4) Select "3CH" for bridged mono output in 3 channel operation (use channels 1 & 2). Select "5CH" for stereo output in 5 channel operation.
- 8. Inputs Right and left channel RCA inputs for channels 3&4.
- Input Level Channels 3&4 input level control.
- High Pass Filter Control Adjustment (Channels 3&4) crossover frequency control for the internal high pass filter.
- 11. Inputs Right and left channel RCA inputs for channels 1&2.
- Input Level Channels 1&2 input level control.
- High Pass Filter Control Adjustment (Channels 1&2) crossover frequency control for the internal high pass filter.
- Low Pass Filter Control Adjustment (Subwoofer Channel) crossover frequency control for the internal low pass filter.
- Sub Input Level Subwoofer channel input level control.
- Speaker Connection Terminal Speaker connections for Subwoofer Channel.
- 17. Speaker Connection Terminal Speaker connections for Ch's 3&4.
- 18. Speaker Connection Terminal Speaker connections for Ch's 1&2.
- 19. REMOTE Remote turn-on input from the head unit. Accepts +12V.
- GND Main ground connection. Bolt to a clean chassis point in the vehicle.
- +12V Connected to a fuse or circuit breaker, then to the battery's positive terminal.
- 22. Main Fuse Main power supply fuses.

0 0 0 0 0 0 0 0 0 0 00 0 RUBICON555



KEY TO CALLOUTS

- Power LED Indicates amplifier power.
- Subwoofer Channel Input Select Selectable inputs from internal (CH 1-4) or external ("SUB" - local RCA inputs).
- Subsonic / Hawkins Bass Control Switch (variable) Select "SUB SONIC" to engage the Sub Sonic filter at 13 Hz. Select "HAWKINS BASS CONTROL" to engage the subwoofer channel's high pass filter @ 45 Hz with variable "Q" for optimum bass.
- Low Pass XOVER Switch (Subwoofer Channel) Select "IN" for use with the internal crossover, or "OUT" for use with external crossover.
- Mid-Bass/Midrange Select Selectable mid-bass "LOW" or midrange frequency control "HIGH" in 3-way operation.
- High Pass XOVER Switch (Channels 1&2) Select "IN" for use with the internal crossover or "OUT" for use with external crossover.
- Rear Fill De-emphasis Switch (Channels 3&4) Select "IN" to activate 6 dB/Octave filter @ 7 kHz.
- High Pass XOVER Switch (Channels 3&4) Select "IN" for use with the internal crossover or "OUT" for use with external crossover.
- Inputs Right and left channel RCA inputs for channels 3&4.
- Input Level Channels 3&4 input level control.
- High Pass Filter Control Adjustment (Channels 3&4) crossover frequency control for the internal high pass filter.
- 12. Inputs Right and left channel RCA inputs for channels 1&2.
- Input Level Channels 1&2 input level control.
- High Pass Filter Control Adjustment (Channels 1&2) crossover frequency control for the internal high pass filter.
- 15. Inputs Right and left channel RCA inputs for the subwoofer channel.
- 16. Input Level Subwoofer channels input level control.
- Low Pass Filter Control Adjustment (Subwoofer Channel) crossover frequency control for the internal low pass filter.
- Hawkins Bass Control "Boost" Adjustment Varies from 0 to +9 dB of boost when the Hawkins Bass Control is engaged.
- Speaker Connection Terminal Speaker connections for Subwoofer Channel.
- 20. Speaker Connection Terminal Speaker connections for Ch's 3&4.
- Speaker Connection Terminal Speaker connections for Ch's 1&2.
- 22. REMOTE Remote turn-on input from the head unit. Accepts +12V.
- GND Main ground connection. Bolt to a clean chassis point in the vehicle.
- +12V Connected to a fuse or circuit breaker, then to the battery's positive terminal.
- 25. Main Fuse Main power supply fuses.
- Channels 3&4 Input Select Selectable inputs from "LOCAL" (CH 3&4 local RCA inputs) or "REMOTE" (CH 1&2).
- Amp Mode Switch (Channels 1-4) Select "3CH" for bridged mono output in 3 channel operation (use channels 1 & 2). Select "5CH" for stereo output in 5 channel operation.

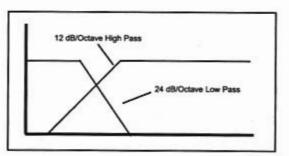
CROSSOVER ADJUSTMENTS

The RUBICON amplifiers incorporate an on-board staggered electronic crossover, with RCA outputs (RUBICON555 only) to drive an external amplifier. No external electronic crossover is necessary. However, if you do desire to use an external crossover you still have that option. The high and low pass portions of the crossover can be set independently of one another.

In many car audio installations, there is a tendency for a "midbass boom." Because of their interior dimensions, most cars will resonate or ring at these midbass frequencies. If we design the system so there is reduced output in this region, the final response is very smooth and natural sounding. The high pass crossover is independently variable from 50 to 500 Hz at 12 dB/Octave (Removable SIP @ 150Hz on RUBICON255. See next page for different frequencies), and the low pass crossover is independently variable from 55 to 220 Hz at 24 dB/Octave.

For initial crossover setup, try setting the low pass filter to approximately 60 Hz, and the high pass filter to approximately 150 Hz. Change the crossover points to accommodate a good mixture of frequency response, power handling, and personal preference.

2-WAY

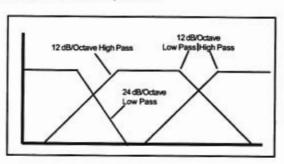


3-WAY (555 ONLY)

MIDBASS/MIDRANGE BAND PASS

The RUBICON555 can be operated in midrange or midbass "band pass" configuration. In the three way mode, you can tri-amplify with "active" midbass or midrange to maximize control over individual drivers. The bandpass includes a low pass and high pass filter, which work independent of one another, to drive the midrange or midbass speakers.

3-WAY



SIP CROSSOVER (255 ONLY)

SIP (K())	HP (Hz)	C
180	22	Th
120	26	(S
82	33	a
62	39	the
47	47	cr
43	50	1
30	66	1
22	86	1
15	120	1
12	146	1
8.2	208	1
4.7	353	1
3.3	498	1
2	813	1

CHANGING FREQUENCIES

The RUBICON255 comes with a 150Hz High Pass S.I.P. . (Series In-line Package resistor network) I If you want to use a frequency other than the factory pre-set frequencies follow the chart to the left or the formula below to select your own crossover points.





NOTE: The following formula may be used to determine values in creating "custom" resistor packs.

The High Pass frequency is equal to 1,600,000 divided by the invidual resistor value plus 13, or (1,600,000/R ohrs) + 13 = X Hz

Example: (1,600,000/12,000) + 13 = 146 Hz

To make a custom S.I.P., use 4 identically valued resistors of 2% or tighter tolerance. See the drawing of the S.I.P. for more information.

Hawkins Bass Control - Theory and Use

Hawkins Bass Control (variable) is a unique subwoofer control circuit included with the Soundstream RUBICON555 amplifier. It is capable of removing subsonic energy in program material below 45 Hz at 12 dB/Octave, while boosting subwoofer frequencies. The circuit consists of two controls. One engages a subsonic High Pass filter at 45 Hz, and the other adjusts the amount of boost (0 to +9 dB) (fixed at +6dB for the RUBCON255 & 355).

SUB HAWKINS
SONC * BASS CONTROL

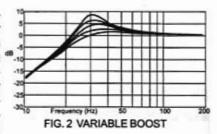
HAWKINS
BOOST
Q

FIG. 1

The Boost control adjusts the amount of level applied at the set frequency, and is adjustable from 0 to +9 dB (see figure 2). When the boost is set to 0, Hawkins Bass Control acts as a sub sonic filter only. The simple act of removing potentially harmful low frequencies can improve system output by as much as 3 dB.

Application

Subwoofer drivers in general have excellent power handling characteristics over their operational bandwidth. This bandwidth is determined by many factors, including driver design and enclosure type. It is possible to overdrive any subwoofer driver by sending powerful signals outside of its operational bandwidth. These potentially damaging signals can be removed by adding a



subsonic filter. Figure 3 shows the effectiveness of the Hawkins Bass Control on woofer excursion in a vented enclosure. The woofer travels 7.5 mm at 10 Hz. With Hawkins Bass Control properly adjusted, this excursion can be reduced to less than 1 mm. This is of great benefit to lowering woofer distortion and increasing output.

Adjustment (555 only)

An easy method of optimizing your existing subwoofer enclosure with Hawkin's Bass Control is as follows:

- Adjust the boost control to full counter clock-wise (0) position.
- Set the bass control switch to "HAWKINS BASS CONTROL".
- Play moderate to loud bass material.
- Adjust the boost (Q) control until you reach the desired level.

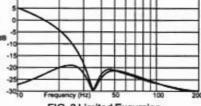


FIG. 3 Limited Excursion

With Soundstream's Hawkins Bass Control, the boost and frequency control can provide the "tailoring" needed for any type of "assisted" design and any woofer in any type of installation.

INSTALLATION STEP 1

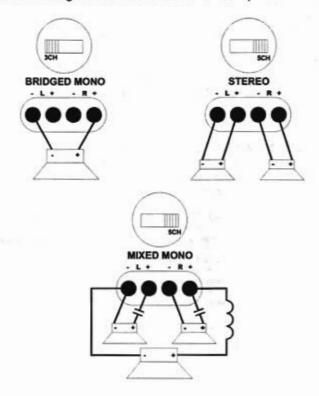
SELECTING THE SPEAKER OUTPUT MODE

Channels 1 through 4 of the RUBICON255, 355 & 555 amplifiers have the ability to operate in any one of the following modes:

5CH (Stereo / Mixed Mono): Use this mode for 5 channel stereo operation (all channels) or for Mixed Mono operation.

3CH (Bridged Mono): Use this mode to bridge channels 1&2 and 3&4 outputs for 3 channel operation.

Please follow the wiring schemes below for the correct operation:



INSTALLATION STEP 2

WIRING

POWER AND GROUND

To ensure maximum output from your RUBICON amplifier, use high quality, low-loss power and ground cables and connections. The RUBICON amplifiers will accept up to 4 or 8 gauge power and ground cables. Determine from the chart below the minimum and maximum gauge power and ground wire for your application.

	up to 10'	up to 20'
RUBICON255	8 or 10 gauge	8 gauge only
RUBICON355	8 or 10 gauge	8 gauge only
RUBICON555	4 or 8 gauge	4 gauge only

CIRCUIT BREAKERS AND FUSES

EXTERNAL

Like all audio components, the RUBICON amplifier must be fused near the battery. A fuse or circuit breaker must be located within 18" of the battery. This will prevent a fire in the event of a shorted cable. See the chart below to determine the correct fuse value.

INTERNAL

The RUBICON255, 355 & 555 amplifier are fused with automotive-type fuses. In the event of blown power supply fuses, replace with the correct value fuse found in the chart below. Never replace the fuse with a higher value than what is supplied. This may result in amplifier damage and will void the warranty!

RUBICON255, 355 & 555 Amplifier Fuse Values

	Amplifier Fuse	Battery Fuse / Circuit Breaker
RUBICON255	30 amp automotive	40 amp
RUBICON355	(2) 20 amp automotive	50 amp
RUBICON555	(2) 30 amp automotive	80 amp

REMOTE TURN-ON

Connect the "Remote" line to the turn-on lead from the source unit. When +12 Volts is received, the amplifier will turn on.

SIGNAL CABLE

Use a high quality cable that will be easy to install and has minimal signal loss to guarantee optimum performance.

SPEAKER CABLE

The RUBICON amplifiers will accept up to 8 gauge speaker cable. Use a high quality, flexible, multi-strand cable for best performance and longevity.

INSTALLATION AND MOUNTING

AMPLIFIER LOCATION

The RUBICON amplifier employs highly efficient circuitry, a custom-engineered heat sink, and a unique Chassisink construction to maintain lower operating temperatures. Additional cooling may be required if the amplifier is located in a tightly confied area or when driving especially low impedance loads at extremely high levels.

When mounting the amplifier, it should be securely mounted to either a panel in the vehicle or an amp board or rack that is securely mounted to the vehicle. The mounting location should be either in the passenger compartment or in the trunk of the vehicle, away from moisture, stray or moving objects, and major electrical components. To provide adequate ventilation, mount the amplifier so that there are at least two inches of freely circulating air above and to the sides of it.

MOUNTING THE AMPLIFIER

- Using the amplifier as a template, mark the holes on the mounting surface.
- Remove the amplifier and drill the holes for the mounting screws.
- Secure the amplifier to the mounting surface using the supplied hardware.

WIRING

- Run and connect the audio signal and remote turn-on cables to the amplifier from the source unit.
- b. Carefully run the positive cable from the amplifier to a fuse or circuit breaker within 18" of the battery.
- Connect the fuse or circuit breaker lead to the battery. Leave the circuit breaker off or the fuse out until everything is bolted down.
- Secure the ground cable to a solid chassis ground on the vehicle. It may be necessary to sand paint down to raw metal for a good connection.
- e. Double check each and every connection!
- Re-connect the fuse or circuit breaker.

POWER UP

Power up the system and look at the Power LED; there may be a 2-3 second delay from the time the source unit is turned on to the time that the LED on the amp turns on, which is normal. Once the amplifer LED is on and the source unit is playing, you should have sound coming from the speakers.

INSTALLATION STEP 4

LEVEL SETTING

The input levels are adjusted by means of the input level controls located on the front of the amplifier. This is a unique dual-stage circuit that adjusts both level and gain. This topology maintains better S/N Ratio even when using sources with minimal output.

In the ideal situation, all components in the audio system reach maximum undistorted output at the same time. If you send a distorted signal to an amplifier, it is simply going to amplify distorted information. The same holds true if an outboard processor or crossover begins to distort before you have maximum output from the amplifier. By setting all components to reach clipping at the same time, you can maximize the output of your system. For the RUBICON amplifier, follow these steps for setting the input levels:

- 1. Turn the amplifier's input levels to minimum position (counter-clockwise)
- Set the source unit volume to approximately 3/4 of full volume.
- While playing dynamic source material, slowly increase the amplifiers' input level until a near maximum undistorted level is heard in the system.

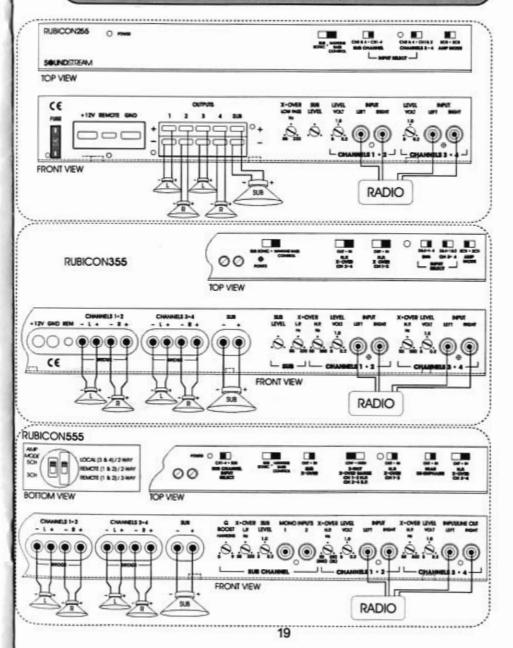
FRONT SPOILER

Once the amplifier is installed and the proper levels set, place the front spoiler in position, and secure it using the supplied hardware.

SAMPLE SYSTEM #1 - All Models

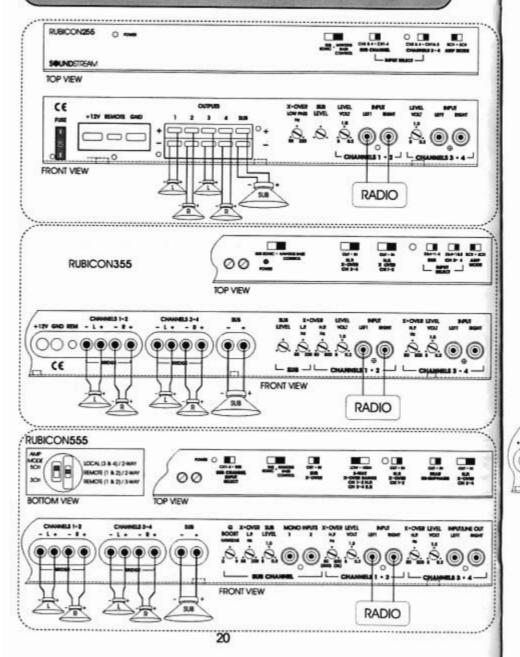
4 channels of input

2-way front/rear fade with constant level bass
4 channels of 2-way high pass, (rear de-emphasis engaged on 555)
subwoofer channel in low pass



SAMPLE SYSTEM #2 - All Models

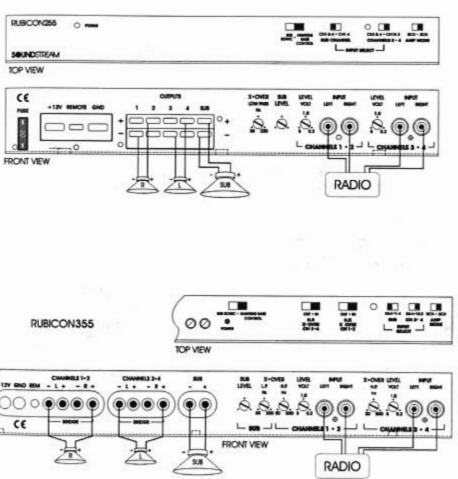
2 channels of input 4 channels of 2-way high pass, (rear de-emphasis engaged on 555) subwoofer channel in low pass



SAMPLE SYSTEM #3 - (255 &355)

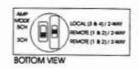
4 channels of input

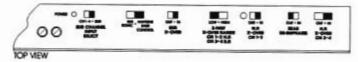
3 channel operation with satellite to subwoofer fading 2 channels of bridged 2-way high pass, subwoofer channel in low pass

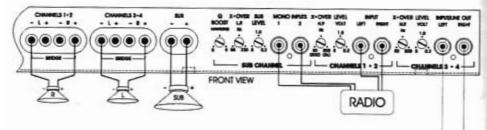


SAMPLE SYSTEM #4 (555 ONLYI)

4 channels of input with 2 channels line out, 2-way mode 3 channel operation with satellite to subwoofer fading 2 channels of bridged 2-way high pass, subwoofer channel in low pass



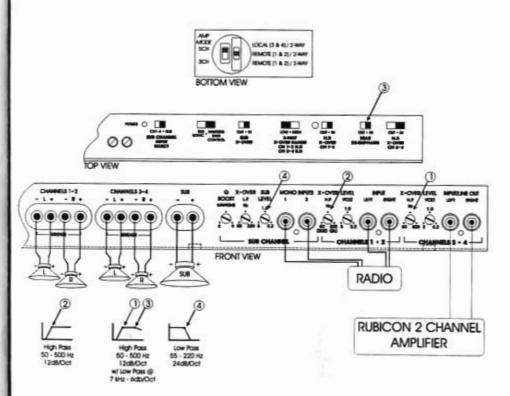




RUBICON 2 CHANNEL AMPLIFIER FOR REAR FILL

SAMPLE SYSTEM #5 (555 ONLY!)

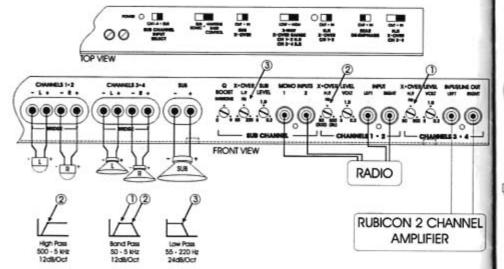
4 channels of input with 2 channels line out, 2-way mode
 5 channel operation with satellite to subwoofer fading
 4 channels 2-way high pass, rear de-emphasis engaged subwoofer channel in low pass



SAMPLE SYSTEM #6 (555 ONLYI)

4 channels of input with 2 channels line out, 3-way mode 5 channel operation with satellite to subwoofer fading 2 channels high pass (tweeter), 2 channels bandpass (midrange) subwoofer channel in low pass

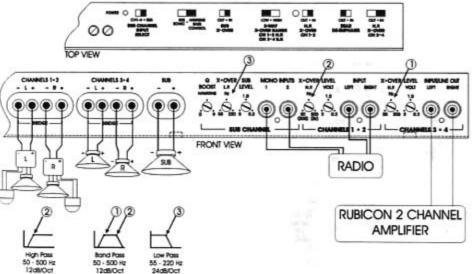




SAMPLE SYSTEM #7 (555 ONLYI)

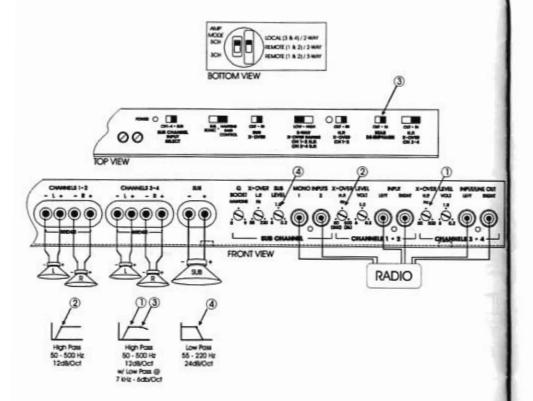
4 channels of input with 2 channels line out, 3-way mode
5 channel operation with satellite to subwoofer fading
2 channels high pass (mid/tweet), 2 channels bandpass (midbass)
subwoofer channel in low





SAMPLE SYSTEM #8 (555 ONLY!)

6 channels of input
5 channel operation with front rear satellite fading & subwoofer control
4 channels high pass 2-way, rear de-emphasis engaged
subwoofer channel in low



TRIDENT PROTECTION CIRCUITRY

Your RUBICON255, 355 & 555 amplifiers are protected against both overheating and short circuits by means of main power fuses and the following circuits:

- Speaker Protection
- Ground fault Protection
- A fail-safe thermal protection circuit

NOTE: If you experience blown main power supply fuses, it is likely that the amplifier is seeing a dead short, either in the speaker wire or in the speaker itself. Rectify the problem before blowing multiple fuses! DO NOT increase values beyond the original fuse value! Doing so will void your warranty and may damage your amplifer.

TROUBLESHOOTING

PROBLEM	CAUSE
No Sound and power LED is not lit	No power or ground at the amp No remote turn-on signal Blown fuse near the battery
No sound, power LED is lit	No signal input The Remote Bass accessory switch is in the "IN" position. Move it to the "OUT" position.
Amplifier output cuts off and on repeatedly	Speaker output may be shorted to ground. Check for resistivity with an volt meter. Speaker leads may be shorted to each other. Check for continuity with an volt meter.
Repeatedly blow amp fuse; frequent activation of Trident protection circuit	Speaker or leads may be shorted Verify adequate amp ventilation
Fuse LED is lit	The power supply fuses on the bottom of the amplifier are blown

SERVICE

Your Soundstream RUBICON amplifier is protected by a limited warranty. Please read and send in the enclosed warranty card.

SPECIFICATIONS

Channels 1 & 2; 3 & 4

MODEL	4 Ω Stereo (8 Ω Bridged) (12.5 Vdc)	2 Ω Stereo (4 Ω Bridged) (14.4 Vdc)
255	22.5W x 4 (45W x 2)	45W x 4 (90W x 2)
355	25W x 4 (50W x 2)	50W x 4 (100W x 2)
555	40W x 4 (80W x 2)	80W x 4 (160W x 2)

Subwoofer Channel

MODEL	4 Ω (12.5 Vdc)	2 Ω (14.4 Vdc)
255	50W x 1	100W x 1
355	75W x 1	150W x 1
555	150W x 1	250W x 1

THD

<0.1%

Signal to Noise

>100 dB

Frequency Response

20 Hz to 20 kHz ± 0.5 dB

Stereo Separation

>90 dB

Damping

>200

Input Sensitivity

200 mV to 5.0 Volts

Input Impedance

10k Ohms

Crossover Specifications

Low Pass:

55 Hz - 220 Hz at 24 dB/Octave (12dB on 255)

High Pass:

50 Hz - 500 Hz at 12 dB/Octave

(Removable SIP @ 150 Hz on 255)

Band Pass (555): 50 Hz - 500 Hz at 12 dB/Octave (Mid-Bass)

50 Hz - 4 kHz at 12 dB/Octave (Mid)

Hawkins Bass Control

0 to +9 dB Boost(555), +6 dB (255, 355); Boost Frequency = 45 Hz (Hawkins Bass Control "IN") Sub Sonic filter frequency = 13 Hz

Dimensions (W x D x H)

RUBICON555: 15.0" X 9.8" X 2.25" (381mm X 250mm X 57mm) RUBICON355: 13.0" X 9.8" X 2.25" (330mm X 250mm X 57mm) RUBICON255: 11.0" X 9.8" X 2.25" (280mm X 250mm X 57mm)

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