



Made In the USA



SRV-212

Rotary Guitar Speaker Cabinet

**Motion Sound
4426 So 450 West Ste G
Salt lake City, UT 84123
801 265-0917**

www.motion-sound.com

SRV-212

The SRV-212 is a rotary speaker cabinet designed to be driven by any amplifier that can safely drive a 4-ohm load. It is shipped with two Eminence™ Sreamin' Eagle speakers wired in parallel. Maximum power input is 100 watts RMS.

Caution if you are not sure of your amplifiers load capability, contact it's manufacturer before connecting to the SRV-212

-Introduction-

Motion Sound has been successfully manufacturing several types of rotary speakers since 1995. The SRV-212 is the second generation of guitar rotary speakers. We have incorporated many suggestions from musicians into the SRV-212 and added our many years of experience into it's features and performance. The SRV-212 defines the guitar rotary speaker standard.

-Warning-

- The SRV-212 can produce high sound pressure levels, hearing protection is advised!-
- The SRV-212 must be earthed and connected to correct power for safe operation-

-Specifications-

- **Input connector** ¼" speaker input jack on rear panel. (ground isolated)
- **Input impedance** 4 ohms (with supplied speakers).
- **Power level** Up to 100 watts RMS (with supplied speakers).
- **Speakers** Two Eminence™ 8 ohm Sreamin' Eagles. (Wired in Parallel).
- **Fuse** Located in AC inlet module.

Power	Voltage	Frequency	Watts	Fuse (slo-blow)
USA	117 VAC	60 Hz	50	1 Amp
Europe	220-240 VAC	50 Hz	50	.5 Amp
Australia	220-240 VAC	50 Hz	50	.5 Amp
Japan	100 Vac	60 Hz	50	1 Amp

- **Finish** Two part polymaric™ on MDF (Proprietary Polymer)
- **Dimensions** 24.5" H 20" W 17" D 64 Lbs.

-Quick Start Setup-

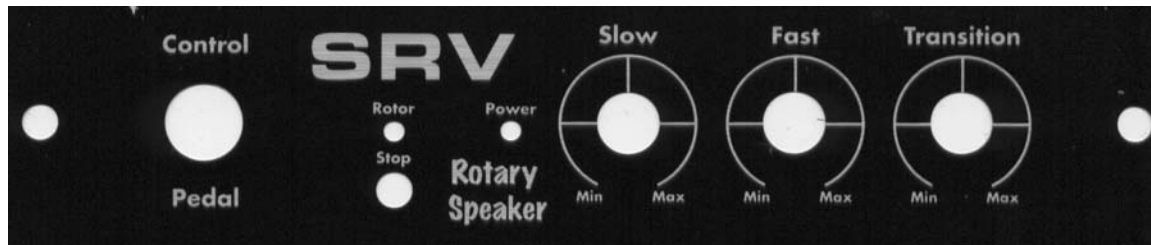
1. Connect a ¼" speaker cord from your amplifier's output jack to the speaker ¼" jack on the back of the SRV-212.
2. Connect the ¼" TRS cord between the speed control pedal and "Control Pedal" input on the front panel of the SRV-212. (cord and pedal are supplied)
3. Set up your Guitar and amplifier as you normally would, then turn your amplifier on.
4. Set the slow, fast, and transition knobs straight up, then turn on the SRV-212.
5. Press the footswitch to select desired speeds.

-Sound, what to expect-

In many instances the SRV-212 can serve as the only speaker, both rotary and stationary. When in complete stop, an optical sensor stops the rotor consistently facing forward providing sound similar to a 2 X 12 stationary cabinet.

- **Quality of sound** will depend on a good guitar and amplifier combination, the SRV-212 will provide the lush, three dimensional, room filling rotary sound. When the SRV-212 is rotating, sound will radiate from the front and from the sides.
- **Volume** The perceived volume will be less than that of a stationary speaker cabinet facing you because the sound is "spun" around the room, facing you directly about 40% of the time.
- **Stopped** When the SRV-212 is in stop mode, the LED sensor stops the rotor facing forward so the perceived volume is more like that of a stationary speaker cabinet.
- **Reflections** Rotary sound is most impressive when reflecting walls and ceilings are present. An outside venue with no reflecting walls or ceiling would sound the least impressive.

-Control Panel-



- **Pedal connection** On the left is the ¼" input for the speed control pedal. A 15 foot TRS cord is supplied, a longer cord or extension (up to about 50 feet) can be used.
- **Rotor indicator** The LED blinks with the speed of the drum when in slow or fast mode. When stop is pushed on the control pedal, the rotor will coast to a complete stop facing forward and the LED will remain lit.
- **Slow** Set this speed first. A range of rich chorus sounds can be adjusted with this speed control. "Min" is the slowest position, it does not go to zero.
- **Fast** Sets a range of higher speeds producing the rich "throb" associated with rotary speakers. "Min" position adds no speed increase to the slow speed setting. Moving the knob towards "Max" adds speed to the slow speed setting. The fast speed setting is added to the slow speed setting when the speed button LED is illuminated on the control pedal.
- **Transition** is the time it takes to go from slow to fast/fast to slow. "Max" is the fastest time while "Min" is the longest time. This is a very useful effect, you can step on the footswitch for a speed change and walk away while playing and the transition is taking place.

-Stop adjust trimmer-

- **Stop** (recessed trimmer on the control panel) This control adjusts the position of the rotor when the stop button is pushed. It is initially set to face the drum forward after the drum coasts to a complete stop. (The control pedal stop button LED is on).
- **Age** Over time, as the belt and ball bearings wear, this may need adjustment. **CAUTION!** This is a small trim pot that requires a tiny screwdriver to adjust. The trim pot can be broken with an improper tool or rough adjustment technique.
- **Adjustment** Observe the rotary drum either by removing the front grill or using a flashlight shining through the grill cloth. Make small, careful adjustments to the “stop” trimmer.
 1. Run the rotor fast for a few minutes and then push stop. The rotor spins counter clockwise (left to right). Push the pedal stop button and observe the rotor position when completely stopped. If the rotor stops within +15 to -15 degrees of front center, that is normal.
 2. If the rotor stops to the right of center, turn the “stop” control counter clockwise a small amount, run on slow for 30 seconds and test again. Repeat if needed.
 3. If the rotor stops to the left of center, turn the “stop” control clockwise a small amount, run on slow for 30 seconds and test again. Repeat if needed.

-Footswitch control-

- **Cord length** The SRV-212 is shipped with a two button push on/push off LED speed control pedal. The removable cord is a 15 foot TRS type. Longer cords or extensions can be used up to about 50 feet. A heavier gage wire can be used for even longer runs.
- **Speed Button** When the LED is off, **slow speed** is selected. (see control panel). When the speed button is pushed again, the LED illuminates and **fast speed** is added to the slow.
- **Stop Button** When stop is pushed, LED illuminated, slow and fast are disabled and the rotor will ramp down to a complete stop with the rotor facing forward. When stop is pushed again, the LED goes off and the rotor will ramp to the current speed selected.

-Rear Panel Connections-

- **4 Ohm input** Connect your amplifier’s output here with a good speaker cord. The connector and speakers are isolated from ground.
- **Microphones** The SRV-212 has two built in dynamic microphones for convenient connection to a PA system or recording console. The XLR’s are labeled left and right, the outputs are low impedance balanced.
- **AC power inlet module** Connect to specified and grounded power only. The fuse is located in the power inlet module just above the inlet. Use specified value only.

-Speakers-

- **Stock speakers** The SRV-212 is shipped with two Eminence™ Screamin’ Eagle 8 ohm speakers. They are capable of 50 watts RMS each and are wired in parallel providing a 4 ohm 100 watt load to an amplifier.
- **Considerations** The Screamin’ Eagles are a good match for the SRV-212’s cabinet which has different speaker requirements since the speakers are sounding through a rotary chute.
- **Remove/replace** The speakers are mounted with machine screws into steel inserts so you can change them easily. Remove the top and bottom rear panels to gain access. **Caution!** If you change speakers be sure resulting Ohms load matches your amplifier. If you are not sure, contact the amplifier’s manufacturer.

Motion Sound is not responsible for amplifier damage

-Caster Set and cabinet placement-

- **Tilt** The SRV-212 is shipped with a removable caster set, you may prefer the sound with casters removed. The SRV-212 can be tilted up to 50 degrees with no effect on the rotary system. You can conveniently tilt the cabinet back by removing just the rear casters.
- **Placement** The sound will vary from room to room so experiment with placement. A good place to start is with rear casters out and the SRV-212 about a foot away from a rear wall.

-Using more than one SRV-212-

- **Using one footswitch** to control the speed on several SRV-212 speakers. Purchase a TRS splitter and plug it into the control pedal's input. Connect a TRS cord from the splitter to the control pedal input of all SRV-212's. Set the speed and transition times differently (if desired) for unique effects.
- **Two or more footswitches** Plug a footswitch into each SRV-212. This gives the ability of switching speeds independently creating very interesting effects. Try also setting the speeds and transition times differently on each SRV-212.
- **Amplifiers/connections** An amplifier's specified impedance range (Ohms that it can drive) must be considered, check with your amplifier's specification before proceeding. Connections should be made with good speaker wire and Y splitters.
- **Multiple SRV-212's** There are several possible ways of connecting multiple SRV-212's, phase and impedance must be considered. Two SRV-212's in parallel = 2 Ohms. Two SRV-212's in series = 8 Ohms. Consult a technician if unsure as to what you need.

-Use with a stationary speaker cabinet-

- **Using two amplifiers** If you have an extra amplifier head to commit to the SRV-212, you will have the capability to set the EQ separately for each speaker/amplifier combination. Use an ABY pedal (available at most music stores) to switch your Guitar between either or both amplifier/speakers.
- **Using one amplifier** If you use one amplifier, place an AB switch in the amplifier's output and run the switch outputs to each speaker. You may have to adjust EQ depending on which speaker you are using at the time. Do not connect both speakers at the same time to a single amplifier unless it can drive a 2 Ohm load.

- Maintenance-

The rotor, motor, and belt will operate for many hours without adjustment.

- **Rotor** The rotor spins on sealed ball bearings and requires no oil or any other service.
- **Belt** The pyrothane elastic belt usually needs no adjustment. Tension can be adjusted by moving the motor mounting screws. Accessed by removing the front grill cover, do not over tighten the belt, just enough tension to stop pulley noise or belt slipping.
- **Finish** The SRV-212 is coated with our tough Polymaric™ polymer finish. Clean as needed with mild soap and water, do not get water on the grill cloth.

-Service information-

Caution! Hazardous voltages are present inside!

- All warranty service must be pre-approved and performed by Motion Sound or an authorized service center. Review Motion Sound's warranty and service policy for details.