

SOUNDCRAFT SI IMPACT + WAVES SUPERRACK PERFORMER

Shared Waves Reverb Routing - Step-by-Step Backup Guide

Bruce Dicks - Current working Si Impact / SuperRack setup

WORKING SIGNAL PATH

Dry vocal channels 15-19 -> Mix 11 -> MADI USB Card 54 -> SuperRack Input Soundcraft 22 -> H-Reverb (100% wet) -> Si Impact stereo return channels 37/38 -> LR

Important: Channels 37 and 38 must never be sent back into Mix 11.

1. Before changing any routing

- ☐ Save the current Si Impact Show under a new name before making changes.
- ☐ Save the current SuperRack session under a new name before making changes.
- ☐ Confirm the Soundcraft USB/MADI driver is selected in SuperRack Performer.
- ☐ Connect and power the equipment in this order: Si Impact and stagebox first, laptop second, then open SuperRack.
- ☐ Start with the PA at a safe level. Keep the reverb return channels down until the routing is confirmed.

Recommended backup names: Si Impact: SOS 1 - Shared Reverb Working. SuperRack: SOS 1 - Reverb Working.sprk

2. Understand the channel-number offset

With this working setup, the Si Impact MADI USB card numbers above 32 appear in SuperRack as Soundcraft channel numbers 32 lower.

Si Impact patch	SuperRack route	Purpose
MADI USB Card 34	Soundcraft 2	Dry lead vocal Channel 16
MADI USB Card 54	Soundcraft 22	Mix 11 shared reverb send

Rule used here: SuperRack channel = Si Impact MADI USB Card number - 32.

3. Confirm the dry vocal routing first

Do not build the shared reverb until the normal Waves vocal channels are working. Your current system uses dry vocal channels for monitor feeds and Waves returns for FOH.

- ☐ Select dry vocal Channel 16 on the Si Impact.
- ☐ Open INPUT 16 SETUP.
- ☐ Confirm Input Patch is the correct stage-rack input. Your working lead vocal showed SR A-16.
- ☐ Confirm DirectOut Patch is MADI USB CARD 34.
- ☐ In SuperRack, confirm the lead-vocal rack input is Soundcraft 2 and that its input meter moves.
- ☐ Confirm the processed vocal returns to its normal wet-return channel and is heard in LR.

4. Create Mix 11 as the shared Waves reverb send

- ☐ Press the physical MIX 11 button on the Si Impact. The MIX 11 button must light orange.
- ☐ Select the Mix 11 master and open MIX 11 SETUP.
- ☐ Set Mix Width to Mono.
- ☐ Under Patching, set Output Patch 01 Left to MULTI DIGITAL IN/OUT CARD -> MADI USB CARD 54.
- ☐ Leave Output Patch 01 Right unused because Mix 11 is mono.
- ☐ Raise the Mix 11 master fader to 0 dB for setup and testing.
- ☐ While Mix 11 is selected, raise the send fader for one test vocal, usually Channel 16.
- ☐ Talk into the microphone and confirm the Mix 11 master meter moves.

5. Build the dedicated SuperRack reverb rack

- ☐ Choose one unused SuperRack rack. In the working session this was labeled CH20.

- ☐ Set the rack INPUT to Soundcraft 22.
- ☐ Insert only H-Reverb in this rack. Do not add CLA-76, C6, PSE, or other vocal processing to the shared reverb rack.
- ☐ Open H-Reverb and set MIX/WET to 100% wet.
- ☐ Start with a vocal-friendly decay around 1.6 to 2.2 seconds and pre-delay around 50 to 80 ms. Fine-tune by ear at soundcheck.
- ☐ Talk into the test microphone. Confirm both the SuperRack input meter and output meter move.
- ☐ Assign the rack output to the same working stereo return route already used by Channels 37 and 38. Do not overwrite a route used by another rack.

6. Set the Si Impact stereo reverb return

Your final working Waves reverb return is on Layer B, Channels 37 and 38.

Channel	Name	Setting
37	WAVES VERB L	Pan hard left; ON; assign to LR
38	WAVES VERB R	Pan hard right; ON; assign to LR

- ☐ Bring Channels 37 and 38 up together. Start near -10 dB and adjust to taste.
- ☐ Keep their faders matched so the stereo image stays centered.
- ☐ While Mix 11 is selected, keep Channel 37 and Channel 38 sends OFF, muted in that mix, or fully down.
- ☐ Never send the reverb return back to Mix 11. That creates a reverb feedback loop.
- ☐ Remove or bypass H-Reverb inserted directly on the lead-vocal rack if the shared reverb is now being used, unless a special double-reverb effect is intentionally wanted.

7. Send every vocal to the shared reverb

Press MIX 11. The channel faders now control how much of each channel is sent into H-Reverb; they are not changing the LR mix while Mix 11 is selected.

Vocal	Starting Mix 11 send	Notes
Lead vocal (usually Ch 16)	-10 dB	Clear and present
Background vocals	-12 to -15 dB	Usually slightly less than lead
Very dry vocal	-18 dB or lower	Small amount only
No reverb needed	Off / all the way down	Spoken word or feedback-prone mic

- ☐ Raise the Mix 11 send on dry vocal Channels 15-19 as needed.
- ☐ Test one microphone at a time and confirm the Mix 11 master meter moves.
- ☐ Listen to the tail after stopping speech. Adjust each vocal send, not the return faders, to balance one singer against another.
- ☐ Use Channels 37/38 together as the master reverb level for the whole mix.

8. Normal show-day startup checklist

- ☐ Power the Si Impact and stagebox and wait for them to finish starting.
- ☐ Start the laptop and connect the USB/MADI cable.
- ☐ Turn Wi-Fi and Bluetooth off.
- ☐ Close unnecessary programs.
- ☐ Open SuperRack Performer.
- ☐ Load SOS 1 - Reverb Working.sprk.
- ☐ Load the matching Si Impact Show.
- ☐ Confirm sample rate and buffer are correct. Your working setup used 48 kHz and a 128-sample buffer.
- ☐ Test lead vocal: dry monitor path works and processed FOH return works.
- ☐ Press Mix 11 and confirm the vocal sends are present.
- ☐ Confirm SuperRack reverb rack input and output meters move.
- ☐ Confirm Channels 37/38 are ON in LR and not feeding Mix 11.
- ☐ Bring the PA up slowly and set the final reverb level.

9. Quick troubleshooting

Problem	Check first	Likely fix
Mix 11 meter does not move	Mix 11 selected and vocal send fader raised	Press MIX 11; raise the dry vocal send; verify channel is not muted in Mix 11
Mix 11 meter moves, SuperRack CH20 does not	Console-to-SuperRack channel match	Mix 11 output must be MADI USB Card 54; SuperRack input must be Soundcraft 22
SuperRack input moves but output does not	H-Reverb rack status	Rack ON; plugin not bypassed; output assigned
SuperRack input/output move but no reverb is heard	Si Impact return path	Channels 37/38 ON, assigned LR, faders raised, correct USB return input patches
Only dry vocal is heard from return	H-Reverb wet/dry control	Set H-Reverb to 100% wet
Reverb runs away or feeds back	Return accidentally feeding send	Immediately lower/mute Ch 37/38 and remove them from Mix 11
Reverb is too muddy	Decay/send levels too high	Lower vocal sends; shorten decay; high-pass/low-cut reverb if needed
Session works but disappears after restart	Files were not saved	Save both SuperRack session and Si Impact Show

10. Save the working system

- ☐ In SuperRack, choose Save As and save inside the default SuperRack Sessions folder.
- ☐ Use a clear name such as SOS 1 - Reverb Working.sprk.
- ☐ On the Si Impact, save the Show under a matching name.
- ☐ Make a second copy of the .sprk file on a USB drive or OneDrive.
- ☐ After saving, restart both systems and verify the routing returns correctly before using it at a show.

FINAL CHECK

Vocal -> Mix 11 -> MADI USB Card 54 -> SuperRack Soundcraft 22 -> H-Reverb 100% wet -> Channels 37/38 -> LR
Channels 37/38 must remain out of Mix 11.