

1. What is StompStation CORE

StompStation CORE is a SONULAB guitar pedal with a colour display and a **fixed** effects chain: gate, drive, amp, cab and reverb, always in the same order. Each block can be switched on, off and adjusted, with no chain to build.

- **Noise Gate** at the start of the chain, to remove hum and hiss.
- **NAM Drive**: loads a NAM file (A2 full quality) of an overdrive/distortion pedal or a preamp, from its own library (Drives).
- **NAM Amp**: one full-quality NAM A2 model plus a second model in parallel (**Dual Amp** section), placed in the stereo field.
- **Stereo IR**: two independent Impulse Responses for cabinet and microphone simulation.
- **Stereo Reverb** with 4 algorithms: Room, Hall, Plate, Spring.
- One configurable footswitch (A-B-C, A-B or ON/OFF, long press for the tuner), 60 presets in 20 banks of 3, MIDI (Program Change and Control Change), connection to the **VoidX-Control** app over Bluetooth (always on), Wi-Fi (optional) or USB.
- One instrument input and a TRS output, stereo or balanced.

2. Safety instructions

Read these instructions before using the pedal and keep this manual for future reference.

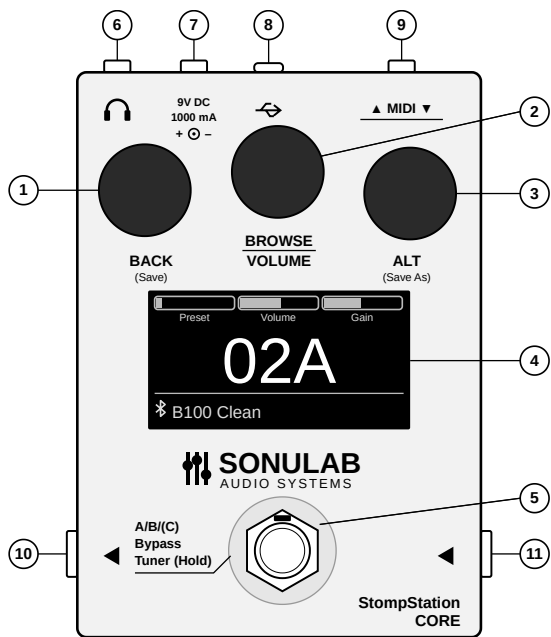
WARNING – risk of injury

- **This is not a toy.** Keep the pedal, cables, power supply and packaging out of the reach of children.
- Contains **small parts** (knobs, nuts, screws) that can come loose and be swallowed: **choking hazard**. Do not put any part of the product or packaging in your mouth or swallow it; keep plastic bags away from children.
- **Do not open, disassemble or modify** the pedal or the power supply: there are no user-serviceable parts inside and opening it voids the warranty.
- Use only a **9 V DC, 1000 mA, centre-negative** power supply that complies with safety standards. Do not touch the power supply or plugs with wet hands.
- Do not expose the pedal to rain, moisture, drips or splashes, and do not place containers of liquid on it. Do not insert objects into the openings.
- **Stop using it immediately**, unplug the power supply and contact service if the cable or power supply is damaged, smoke or an unusual smell appears, liquid or objects get inside, after a fall, or if it behaves abnormally.
- **Hearing**: prolonged listening at high volume can cause permanent damage. Turn the volume down before powering on and before connecting headphones or a PA.
- **Radio waves**: the pedal transmits via Bluetooth (always on) and Wi-Fi. Where radio devices are prohibited (aircraft, hospitals), disconnect the power. People with implanted medical devices (e.g. pacemakers) should keep the distance recommended by their doctor or the device manufacturer.

Precautions

- Do not use or store the pedal in very hot places (direct sunlight, closed car, near heaters or power amplifiers), or in damp, dusty or high-vibration locations.
- Place the pedal on a flat, stable surface. Operate the footswitch with your foot, but do not stand on the pedal or put heavy objects on it.
- Route cables so that nobody can trip over them; grasp the plug, not the cable, when connecting or disconnecting.
- Connect and disconnect cables with the volume turned down, to protect speakers and headphones.
- Unplug the power supply during lightning storms and when the pedal is unused for long periods.
- **Intended use**: processing the signal of guitars and musical instruments, indoors. It is not a medical device or equipment for safety-critical applications.

3. Panel and connections



StompStation CORE, top view

#	Item
1	BACK encoder. Hold: Save ; hold at power-on: UPD (update, section 10)
2	Main BROWSE/VOLUME encoder
3	ALT encoder. Hold: Save As
4	Colour display
5	Footswitch : A/B/(C), Bypass; hold: Tuner
6	Headphone output
7	Power 9 V DC, 1000 mA, centre negative
8	USB-C: connection to the VoidX-Control app
9	MIDI: 3.5 mm TRS jack, Type A
10	OUTPUT : TRS jack, stereo (L tip, R ring) or balanced, see Output mode (section 8)
11	INPUT : mono instrument input

First connection

1. Plug your guitar into **INPUT**.
2. Connect **OUTPUT** to your mixer, audio interface or PA. With Output mode set to STEREO use a TRS → dual-jack (L/R) cable; with a mono (TS) cable you only get the left channel. For a balanced input use a TRS cable and set Output mode to BALANCED.
3. Turn your system volume down, then connect the 9 V DC 1000 mA supply: the Sonulab logo appears, then the Home screen.
4. Turn **BROWSE/VOLUME** to set the master volume.

Note: If the “Low Power” screen appears at start-up with “Please ensure your power supply provides enough current”, the power supply cannot deliver enough current: replace it with one matching the rating label.

4. Home screen

Home is the start-up screen. In the centre is the preset number in **bank + letter** format (e.g. 01A), in the preset colour; the number turns **grey** when the pedal is switched off (bypass). At the bottom is the preset name, preceded by the **Bluetooth** symbol (or **Wi-Fi**, when enabled, see section 10), and an **orange triangle** when there are unsaved changes. Level meters are on the sides: output on the left, input on the right (shown only when a jack is plugged into INPUT). Three bars at the top show what the three encoders adjust.

Page	BACK (turn)	BROWSE (turn)	ALT (turn)
Main	Preset (scrolls the 60 presets)	Master volume	Amp Gain
ALT pressed once	Amp Low	Amp Mid	Amp Treble
ALT pressed twice	Reverb (Dry-Wet)	Reverb Decay	Gate (Threshold)

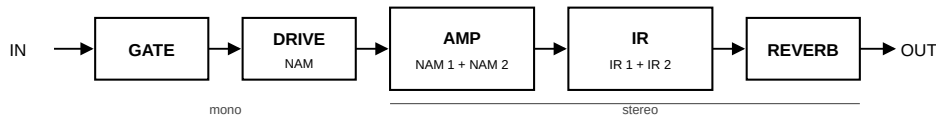
1. **Change page**: press **ALT**. After about 8 seconds without adjustments Home returns to the main page; press **BACK** to return straight away.
2. **Choose a preset**: on the main page turn **BACK**. If the current preset has unsaved changes, “Discard changes?” appears: **Back** cancels, **OK** discards the changes, **Save** saves them.
3. **Save**: hold **BACK** and confirm “Overwrite changes?” to overwrite the preset (only when there are changes). Hold **ALT** for **Save As**: type the name with the on-screen keyboard and confirm; if the name is unchanged you are asked to confirm overwriting.
4. **Open the effects chain**: briefly press **BROWSE**.

Footswitch

The footswitch function is chosen in **Setting > Misc > Footswitch mode**. The footswitch works within the bank of the current preset: to change bank, choose a preset with BACK.

Footswitch mode	Short press
A-B-C (default)	Moves to the next preset in the bank: A → B → C → A
A-B	Toggles presets A and B of the bank: A → B → A
ON/OFF	The pedal stays on the current preset; each press switches it on or into bypass (the clean guitar signal passes through and the preset number turns grey)
Long press	Opens the tuner, in any mode (see section 7)

5. The effects chain



StompStation CORE fixed chain: blocks cannot be moved, only switched on and off

The block order is fixed. The signal is mono up to the Drive and becomes stereo from the Amp block onwards. From Home press **BROWSE** to open the Chain view: the five blocks at the top, the preset name at the bottom. When it opens, no block is selected.

Control	No block selected	Block selected
BROWSE turn	Selects the block (turning back past the first one returns to "no block")	
BROWSE press	Opens Master	Opens the full block panel
BROWSE hold	Opens the Setup menu	Switches the block on/off
BACK turn	Changes preset	Adjusts parameter 1 (3 after ALT)
ALT turn	–	Adjusts parameter 2 (4 after ALT)
ALT press	Opens the preset list	Toggles parameters 1-2 and 3-4
BACK press	Returns to Home (the Chain view also closes by itself after a period of inactivity)	

Block	Parameters 1-2	Parameters 3-4
Gate	Threshold, Attack	Release, Hysteresis
Drive	Model, Gain	Volume, Low
Amp	Model (1), Gain	Volume, Low
IR	IR (1), Lo Cut	Hi Cut, Blend
Reverb	Mode, Decay	Dry-Wet, Level

The full block panel contains all the parameters described in section 6. Changes are saved from Home (section 4).

Preset settings (Master)

In the Chain view, with no block selected, press BROWSE.

Parameter	Values	Default	Description
Volume	0-100 %	50 %	Master volume, the same for all presets
Preset Specific › Level	-20 / +20 dB	0 dB	Per-preset level, to balance presets against each other
Preset Specific › Preset Color	colour	00AA00	Colour of the preset number on Home
Preset Specific › Controller 1-3	MIDI CC / LEARN	–	MIDI controllers for this preset (see section 9)
Clear Chain / Load Default Chain	actions	–	Clears the chain / restores the default chain (with confirmation)

6. Blocks and parameters

Every block has an **Enable** parameter (ON/OFF), the same as the quick switch in the Chain view.

Gate (Noise Gate)

Mutes the signal when it falls below the threshold, removing hum and hiss between phrases. As the first block, it works on the clean signal before Drive and Amp amplify the noise.

Parameter	Range	Default	Description
Threshold	-100 / -20 dB	-60 dB	Level below which the gate closes. Higher = acts more (too high cuts note tails)
Attack	1-200 ms	10 ms	Opening time. High values soften note attacks
Release	5-500 ms	50 ms	Closing time. Short cuts tails, long lets noise through
Hysteresis	0-20 dB	12 dB	Gap between opening and closing: prevents chattering on decaying notes
Source	Block, Input	Block	Signal the gate measures: the one entering the block or the pedal input

NAM Drive and NAM Amp (A2 full quality)

Drive and Amp reproduce real pedals and amplifiers using full-quality A2 **NAM** (Neural Amp Modeler) files. The **Drive** loads a model from the **Drives** library and works in mono. The **Amp** loads a model from the **Amps** library and, with the **Dual Amp** section, a second model in parallel: in total the pedal runs up to **3 NAM models**. Each library holds up to 60 models, loaded with the VoidX-Control app.

Parameter	Range	Default	Description
Model / Model (1)	NAM list	–	Model loaded in the block
Gain	-20 / +20 dB	0 dB	Input gain into the model: sets how hard it saturates
Volume	0-100 %	50 %	Block output level
Low / Mid / Treble	-15 / +15 dB	0 dB	Tone controls after the model
Dual Amp › Enable	ON / OFF	OFF	<i>Amp only</i> : enables the second NAM model
Dual Amp › Model (2), Gain, Volume, Low/Mid/Treble	as above	–	<i>Amp only</i> : second model parameters
Dual Amp › Pan Model 1 / 2	-100 / +100 %	-100 / +100	<i>Amp only</i> : stereo position of the two models (used only with Dual Amp on)

Note: If the sound is squashed, lower **Gain** rather than raising Volume. Amp Gain and Low/Mid/Treble can also be adjusted directly from Home.

IR (Stereo Impulse Response)

Simulates the cabinet and microphone. You can load two independent IRs from the **Impulses** library (48 kHz WAV files, up to 50 IRs via the app) and blend them, for example two mics on the same cab.

Parameter	Range	Default	Description
IR (1)	IR list	–	Loaded impulse response
Lo Cut / Hi Cut	20-1000 Hz / 2-20 kHz	20 Hz / 20 kHz	Filters to tighten the lows or soften the highs
Blend	0-100 %	100 %	Mix between direct signal and IR (100 % = IR only)
Stereo IR › Enable	ON / OFF	OFF	Enables the second IR, with its own IR (2), Lo/Hi Cut and Blend
Stereo IR › Level IR 1 / 2	-20 / +20 dB	0 dB	Level of each IR
Stereo IR › Pan IR 1 / 2	-100 / +100 %	-100 / +100	Stereo position of each IR

Stereo Reverb

Parameter	Range	Default	Description
Mode	ROOM, HALL, PLATE, SPRING	ROOM	Room, hall, studio plate, vintage spring
Decay	0-1	0.2	Length of the tail
Dry-Wet	0-1	0.5	Direct / reverb mix
Level	0-100 %	100 %	Block level
Pre Delay	0-100 ms	5 ms	Delay before the tail starts
Diffusion	0-1	0.5	<i>Not SPRING</i> : reflection density (high = smoother tail)
Modulation	0-100 %	25 %	Movement in the tail, avoids metallic sound
Tension, Tone, Spring Pickup	0-1, 0-1, PRE/POST/POST+PRE	0.5 / 0.5 / POST	<i>SPRING only</i> : spring character
Hi Damp / Lo Damp	900-20000 / 20-1200 Hz	10 kHz / 20 Hz	<i>Not SPRING</i> : high/low damping in the tail
Damping Mode	SOFT, MEDIUM, HARD	MEDIUM	<i>Not SPRING</i> : damping strength
Hi Cut / Lo Cut	600-20000 / 20-1200 Hz	12 kHz / 20 Hz	Reverb bandwidth (Lo Cut not in SPRING)
Stereo Spread	0-100 %	50 %	Stereo width
Ducking	0-100 %	0 %	Lowers the reverb while you play and lets it come up in the pauses

Parameters from *Tension* onwards are in the **Tone and Character** folder of the Reverb panel. Dry-Wet and Decay can also be adjusted from Home.

7. Tuner

1. Hold the **footswitch**: the tuner opens and the output is muted. The preset change (or bypass) caused by the press is undone.
2. Play a string: the display shows the note and deviation, and the LED shows how far you are from pitch.
3. To change the A reference frequency turn **BROWSE** (432-448 Hz, default 440 Hz). It can also be set in Setting › Tuner › Ref.
4. Press the **footswitch** to exit: the sound returns.

8. Settings

To open the **Setup** menu: in the Chain view, with no block selected, hold **BROWSE**. Setup contains **Setting** (Tuner, Input, Misc) and **System** (pedal name, author, firmware version).

Item	Values	Description
Input › Input digital gain	-15 / +15 dB (0)	Digital input gain, for instruments with very weak or hot output
Input › Input connected	YES / NO	Shows whether a jack is plugged into the input (diagnostics)
Misc › MIDI Address	0-15 (0)	MIDI channel the pedal receives on
Misc › Global Controller 1-3	MIDI CC / LEARN	MIDI controllers valid for all presets (see section 9)
Misc › Encoder mode	CW, CCW	Encoder rotation direction
Misc › Output mode	STEREO, BALANCED	STEREO: stereo L/R output on the TRS jack. BALANCED: balanced output for balanced mixer and PA inputs
Misc › Footswitch mode	A-B-C, A-B, ON/OFF	Footswitch function (see section 4)
Misc › Wireless	ON, OFF	Wireless connection status. Bluetooth is always on at power-on; Wi-Fi is switched on and off with BROWSE + ALT (section 10)
Misc › Factory reset	action	Factory reset (see section 11)

9. MIDI

The pedal receives on a single channel, set in Setting › Misc › MIDI Address. The MIDI port is a 3.5 mm TRS **Type A** jack: use a cable or adapter of the same standard.

Fixed Control Change

CC	Function
1	Master volume (0-127)
3	Amp ON/OFF
5	Reverb ON/OFF
11	Tuner ON/OFF
12 / 13	Next / previous preset

Same numbers as StompStation PRO, limited to the CORE blocks. ON/OFF: 0-63 = off, 64-127 = on.

Program Change and controllers

Program Change 0-59 recalls presets in order: PC 0 = 01A, PC 1 = 01B, PC 2 = 01C, PC 3 = 02A ... PC 59 = 20C.

Gate, Drive, IR and other parameters are controlled with the **Controllers**: three per preset (Master › Preset Specific) and three global ones (Setting › Misc).

1. Assign a CC to the Controller, or use **LEARN** and move the external control.
2. In the parameter panel, open the options menu (three-dot icon) and choose **Link to Controller** (up to 3 parameters per controller).

10. VoidX-Control app and updates

StompStation CORE connects to the **VoidX-Control** app over Bluetooth, Wi-Fi or USB. The app manages the **Presets, Amps, Drives and Impulses** libraries: you can load NAM and IR files, and rename, reorder, delete, export and import items. Use export to make a **backup** before any update or reset.

Bluetooth and Wi-Fi

The pedal always starts with **Bluetooth on**: the Bluetooth symbol appears next to the preset name at the bottom of the Home screen.

1. **Turn Wi-Fi on as well**: hold **BROWSE** and **ALT** together until the Wi-Fi symbol replaces the Bluetooth symbol. Both Bluetooth and Wi-Fi then work.
2. **Turn Wi-Fi off**: hold **BROWSE** and **ALT** again until the Bluetooth symbol returns.

With Wi-Fi on, **audible noise** may appear, especially on high-gain presets: if so, turn Wi-Fi off.

Firmware update

1. Back up with the VoidX-Control app.
2. Connect the power and, when the Sonulab logo appears, hold the **BACK** encoder (**UPD** function).
3. Release when the display shows “Update Mode” (pressing BROWSE opens the settings).
4. Follow the instructions in the VoidX-Control app.

11. Troubleshooting

Problem	Solution
No sound	Check in Setting > Input that "Input connected" is YES; check Volume and Level in Master; make sure Amp and IR are on and the Gate Threshold is not too high.
Grey preset number, clean sound	The pedal is in bypass (Footswitch mode ON/OFF): press the footswitch.
Sound on one side only	With Output mode STEREO and a mono cable you only get L: use a TRS → L/R cable, switch off Dual Amp and Stereo IR, or centre the Pans.
Weak or odd sound with a standard cable	Check that Output mode is STEREO: BALANCED is for balanced inputs only.
Footswitch does not change bank	This is normal: the footswitch steps through the presets of the current bank. Change bank by turning BACK on Home.
Tuner won't open	It needs a long press on the footswitch.
Audible noise, especially with high gain	If Wi-Fi is on (Wi-Fi symbol next to the preset name), turn it off by holding BROWSE and ALT.
App can't find the pedal	Bluetooth is always on: check Bluetooth on your device, turn Wi-Fi on with BROWSE + ALT, or connect over USB.
MIDI not responding	Check the channel (MIDI Address) and the Type A cable; test CC 12/13 first.
"Low Power" screen	The power supply does not provide enough current: replace it.

Factory reset

1. Open the Chain view with no block selected and hold BROWSE to open Setup.
2. Go to **Setting > Misc > Factory reset** and confirm.

The reset erases the Amps, Drives and Impulses libraries and the saved presets; other settings are kept. It cannot be undone: make a backup with VoidX-Control first.

12. Care and maintenance

- **Cleaning:** unplug the power supply and use a soft cloth, dry or slightly dampened with water. Do not use solvents, alcohol, benzine, abrasive cleaners or sprays.
- **Display:** clean it with a soft cloth without pressing.
- **Encoders and footswitch:** do not force them and do not use lubricants or contact sprays.
- **Connectors:** insert and remove jacks straight, without levering; use cables in good condition.
- **Transport:** disconnect all cables and use the original packaging or a padded case.
- **Condensation:** after a sharp temperature change (e.g. from a cold car into a warm venue) let the pedal reach room temperature before switching it on.
- **Hum and noise:** keep the pedal away from transformers, power amplifiers and mobile phones.
- **Data:** regularly back up presets, NAM models and IRs with the VoidX-Control app: data may be lost after a fault or repair.
- **Service:** have all servicing carried out by SONULAB- authorised personnel only.

13. Regulatory information and disposal

Manufacturer and identification

Sonulab Srl (SONULAB Audio Systems), [postal address], Italy, [e-mail], www.sonulab.com. Product: **StompStation CORE**; the serial number is on the product label.

EU declaration of conformity

Hereby, Sonulab Srl declares that the radio equipment type StompStation CORE is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: [web address].

The product also complies with Directive 2011/65/EU (RoHS) and bears the CE marking.

Radio data	Frequency band	Maximum transmitted power
Bluetooth	2400-2483.5 MHz	[dBm EIRP]
Wi-Fi	2400-2483.5 MHz	[dBm EIRP]

Disposal (WEEE)

The crossed-out wheeled bin symbol on the product or packaging means that at the end of its life the product **must not be disposed of with household waste**, but taken to a separate collection point for electrical and electronic equipment (Directive 2012/19/EU). You can also return it to the retailer when buying an equivalent product, or according to the take-back schemes available in your country. Separate collection allows materials to be recycled and prevents harm to the environment and health; improper disposal may be penalised under local law.

Packaging: separate the materials and dispose of them according to your local regulations.

Trademarks

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