



THE UNDERFACER MANUAL



1. Tuner send
2. Audio out
3. Left in
4. Right in
5. Master mute
6. Press in for ground lift – right out*
7. RGB LED – red = stereo / blue = mono
8. Remote in – using RMT, press to mute / hold to sum
9. Buffered input
10. Left out
11. Right out
12. 9VDC centre negative – 100mA
13. Press in to sum
14. Press in for phase inversion – right out**

* Ground lift and phase inversion available on TX version only
 † Phase only functional when TX button is pressed in

The Underfacer is like The Interfacer, but designed to be installed under an angled pedal board. That's why it's called The Underfacer. An inspired name choice, even if we say so ourselves.

Like The Interfacer, it's all about professionalism. It's about setting your board up like the pros to be ready for any situation. Two amps. One amp. Ground loops. Phase issues. Long cable runs. The Underfacer handles all of these scenarios with ease. It even has a master mute (accessible from on top of your board by connecting RMT) for when the proverbial hits the fan. Think of it as installing MacGyver under your pedal board, except it's a pedal. And it won't finish every set with an explosion and an escape using a paper clip and a shoe lace.

How to connect The Underfacer.



If you have a vintage fuzz or wah, or any pedal that doesn't like being after a buffer, plug directly into that pedal, and from there go to the input of The Underfacer.

Master mute

This is situated at the very end of the circuit before the L and R outputs. With RMT connected you can access the master mute from the top of your board. Tap RMT to tune silently, as a kill switch for song transitions without delay and reverb trails, or if you need to troubleshoot your board without sending unwanted noises to FOH.

When RMT's LED is on, the master mute is active. RMT overrides The Underfacer's onboard mute push button, no matter which state it is in. The Underfacer's LED is solid when muted and flashing when un-muted.

The Underfacer can power up muted or un-muted, the choice is yours. To change this, hold down RMT's foot switch, plug in power and then immediately release the foot switch.

Summing

Summing can be achieved either with the on-board SUM push button or with RMT. The LED will change colour – red is stereo and blue is dual mono. You can switch modes whether muted or un-muted. Changing modes when un-muted does not activate the master mute.

To switch between stereo and dual mono with RMT, hold its foot switch down for 3 sec. The LED will flash to show you've changed modes. RMT overrides The Underfacer's on-board SUM push button, no matter which state it is in. The Underfacer's LED will always change colour to indicate which mode it's in, even with RMT connected.

The Underfacer features DMS™ which stands for Dual Mode Summing. Unique circuitry, designed by Goodwood Audio, that provides two types of summing, Stereo Sum and Split Sum. The default setting is Stereo Sum.

Stereo Sum

Use this mode when the last pedal in your signal chain, before returning to The Underfacer, is stereo. When the LED is red a true stereo signal will be sent to your amps. When the LED is blue, the left and right signal being sent by your last pedal is combined to mono, and then split to both outputs – commonly referred to as dual mono. This is useful if you only have one amp at rehearsal, but two amps live. Use blue mode when you only have one amp, to preserve your stereo ping pong delays, and then switch to red mode for when you have two amps. When you're playing live with two amps and one dies, simply hold down RMT's foot switch and the repeats of your ping pong delay will be combined to both outputs. It doesn't matter which amp dies and you don't have to stop playing and use a hand to press a button or flick a toggle.

Split Sum

This mode is best suited to people who run a mono pedal board, but like using two amps. To change to this mode take the lid off the box and move the two dip switches from Stereo Sum to Split Sum. Connect your last pedal to the left (L) return of The Underfacer and keep it in blue mode. This will create a dual mono signal. If you switch to red mode the L output will stay active, but the right (R) output will have no signal.

Ground Lift & Phase Correction (*The TX Underfacer only*)

The TX Underfacer features red and black push buttons.

Press the red button to lift ground of the R output. Press the black button to invert the phase of the R output by 180°

For phase inversion to work ground lift must be active – red button pushed in.

Note. For ground lift to be effective, the outputs of The Underfacer need to be connected directly to your amps. If you want to install it under an angled board that has side panel connections, make sure the ground of whatever side panel connectors you're using are not the same. To achieve this the jacks should either have a plastic housing or be mounted into plastic or wood to make sure they do not share a common ground.

Specs

Power: 2.1mm barrel, centre negative, 9vDC power only!

Minimum 100mA

Dimensions (incl. all jacks and switches):

102mm wide x 120mm deep x 36mm high

Weight:

The Underfacer – 310 grams

The TX Underfacer – 320 grams