



# **SQUAWK DIRTY TO ME – FIRMWARE UPDATE**

## **8 FILTER TYPES AVAILABLE:**

<b>n°</b>	<b>Filter type</b>
<b>1</b>	●●●● 24 DB/OCT TRANSISTOR LADDER <sup>zdf</sup>
<b>2</b>	●●●● OTA (a.k.a. MS-20) 12 DB/OCT <sup>zdf</sup>
<b>3</b>	●●●● 12 DB/OCT LO-PASS GATE WITH DECAY <sup>zdf</sup>
<b>4</b>	●●●● 12 DB/OCT RESONANT LO-PASS GATE <sup>zdf</sup>
<b>5</b>	●●●● 12 DB/OCT DJ ISOLATOR-STYLE BIPOLAR <sup>zdf</sup>
<b>6</b>	●●●● 12 DB/OCT HIGH-PASS STATE-VARIABLE <sup>zdf</sup>
<b>7</b>	●●●● 12 DB/OCT BAND-PASS STATE VARIABLE <sup>zdf</sup>
<b>8</b>	●●●● COMB FILTER / RESONATOR *

*\* updated filter*

New firmware codename 'TOTAL NIGHTMARE' (v4.TN) introduces new reverse reverb as well as lots of small bugs fixes of 'Total Fuckng Darkness' v3 firmware. TFD R3 firmware for Squawk Dirty introduced **96 kHz mode**, full **stereo with all-pass** surround operation with already stage 2 background **noise fix**.

Short TYPE press changes the filter types 1 to 8.

Longer TYPE press enables scanning over all 8 filters from 0 to +5V CV (red LED will light up).

Super long TYPE press enters the all pass mode (violet LED will light up). Turning the HPF knob will set the extra all-pass filter for the second output channel giving you an effect from a narrow "mono" up to really wide 1/3 seconds delay effect. That effect is interesting under all purposes, even at very small values.

Technically is possible to upload other WAV firmware into Squawk Dirty or Milky Way and vice-versa however some features may not work correctly (proper LED

indication, filters sequence etc.]), therefore it does not make sense. Please upload the proper firmware for corresponding module so all features will work.

We continuously work on new features and improvements as well as on bug fixes. It is recommended to use the latest firmware installed to experience the latest features. It is also possible to downgrade to any earlier or custom firmware in case you like them better.

In case of finding bugs or offer improved/new functionality, please report to e-mail: [beta@endorphin.es](mailto:beta@endorphin.es)

Latest SQUAWK VERY DIRTY manual:

<https://endorphin.es/endorphin.es--manuals.html>

***IMPORTANT:*** to prevent the errors during the audio playback of the firmware, please use any audio editor without any effects applied (EQ etc).

# SQUAWK DIRTY TO ME – UPDATE VIA AUDIO

## FIRMWARE UPDATE

download latest firmware/bank  
when available from:  
<http://airways.endorphin.es>

Power OFF your modular system:



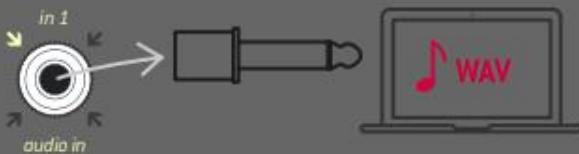
Hold 'mode' while powering your system again:



You will see status LED  
will blink blue:



Connect the audio output from your computer  
headphones output to one of the audio inputs  
of the module with simple mono or stereo cable.



Press PLAY and wait 1.5 minutes.  
The module will reboot automatically  
after the new firmware was installed



Make sure you don't input any extra  
sounds during update process  
(reminder signals from your calendar,  
etc.). When status LED flashes RED –  
that means signal is too low or too high  
– just reset the firmware acquire process  
by pressing MODE once.

Download the latest  
firmware/effects bank from  
the links below. To update  
via audio, power up your  
SQUAWK module during **TAP**  
button hold.

Status **BLUE LED** will start to  
blink as LFO (release TAP  
button then). Connect  
audio/headphones output  
from your PC/Mac/iOS  
device into AUX input of BN.

Play the audio WAV file fully  
all 2+ minutes. Use any file  
player that does not apply  
audio compression to the  
file. During playback, you  
should observe **BLUE LED**  
continue to blink faster than  
initially - that means acting  
data transfer. In case you  
will obtain **RED LED** blinking  
(in the beginning or in the  
middle), that means you  
have to reset firmware  
update by pressing **TAP** and  
playback the file fully again  
(try boost audio level, either  
on PC/Mac, either with **IN1/2**  
**LEVEL** trimmers on the  
backside).

## ***SQUAWK DIRTY TO ME – FIRMWARE DOWNLOAD:***

[https://airways.endorphin.es/Squawk\\_Dirty\\_update.zip](https://airways.endorphin.es/Squawk_Dirty_update.zip)

### **SQUAWK DIRTY TO ME – V4 'TOTAL NIGHTMARE' (20.05.2020)**

- COMB filter adjusted: now with full resonance it becomes a resonator with self-oscillation (negative feedback)
- Fixed HPF knob behaviour once was stored old value on power up
- Lowered clicks between switching the filters. Filters adjusted and fine-tuned. All fixes thanks to Xavier Galai

### **SQUAWK DIRTY TO ME – R3 'TOTAL FUCKING DARKNESS' R3 (23.04.2020)**

- module works at a higher 96 kHz / 16 bit digital audio stereo processing
- all-pass mode introduced for extra stereo effect
- R3 firmware update introduces stage 2 of background noise fix. Keep quiet and squawk 7600.
- filters volumes/resonance adjusted for cleaner sound
- all fixes by Xavier Galai

### **R2 (04.10.2019) – initial release**