

**SUPRO**

**AIRWAVE**

User Manual

# IMPORTANT SAFETY INFORMATION

	The triangle surrounding an exclamation mark alerts users to the presence of important warnings or information.
	The triangle surrounding a lightning bolt alerts users to the presence of dangerous high-voltage within the enclosure of the products that can pose a significant risk of electrical shock.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturers instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the grounding-type plug. A grounding-type plug has two blades and a third grounding prong. The third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use the attachments/accessories specified by the manufacturer.
- Use only the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- To ensure proper ventilation always make sure there is at minimum four inches (101.6mm) of space behind the rear of the apparatus. The ventilation should not be impeded by covering the ventilation opening with items, such as newspapers, tablecloths, curtains, etc. Do not impede ventilation by placing objects on top of the apparatus which extend past the rear edge of its cabinet.
- Please contact Supro directly or a qualified person for tube replacement.
- The AC plug is the mains disconnect. The plug should remain accessible after installation.
- **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
- **WARNING:** The apparatus shall not be exposed to dripping or splashing and objects filled with liquid, such as vases, shall not be placed on apparatus.
- **CAUTION:** To reduce the risk of fire or electric shock, do not remove the cover or back of the product. There are no user serviceable parts inside. Refer service to qualified personnel.

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## 1. ABOUT THE AIRWAVE

The Airwave combines traditional Supro tube technology and on-board analog effects with a cutting-edge suite of mic'd cabinet emulation software from Two notes to provide a vast array of modern and vintage sounds in a stage-ready, studio-friendly 25W, 1×12 combo format. The 12AX7 tube driven preamp of the Airwave features a 3-band EQ along with Boost, Drive, Tremolo and Reverb effects plus a master volume that sets the level of the signal sent to the Class-A 6V6 output tube power section.

Augmenting the capabilities of this full-featured analog tube amp is a world-class, Two notes digital stereo DI solution, delivering mic'd speaker cabinet emulation with a comprehensive range of control options. A 6-way rotary switch on the front panel selects between different Supro cabinet emulations—both vintage and modern—ranging from our smallest 1×8 combos up through 1×10, 1×12, 2×12 and 1×15 models, all captured in meticulous detail with a selection of eight different microphones to choose from. A Group A / Group B illuminated touch switch allows players to easily switch between a bank of six vintage cabinets and six modern cabinets, for a total of twelve customizable on-board presets.

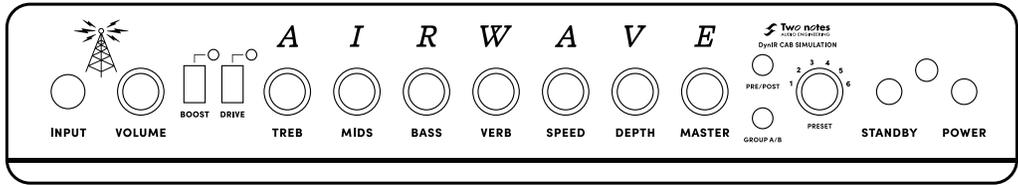
The Airwave's state-of-the-art Two notes DynIR cabinet and microphone modeling system can be connected to a DAW or FOH console via a stereo pair of XLR outputs on the rear panel. A parallel ¼" headphone output is also available for personal monitoring. The on-board 12" speaker can also be muted while still allowing the 12AX7 tube preamp stage or the dual 6V6 tube output stage to feed the mic'd cabinet emulation outputs for studio recording applications or when performing with in-ear monitors in a silent stage situation.

A total of 128 individual presets and a host of additional software features can be accessed by running the Supro Airwave Two notes application via USB-C connection for PC and MAC or wirelessly via Bluetooth on Android and iOS devices. This custom software package unlocks even more sound sculpting options, letting you manipulate virtual mic positioning, adjust EQ, and add room reverb as well as stereo twin tracking to the DI outputs. User presets can be saved directly to the Airwave amp or to a digital device for future recall.

As a bonus addition to the vintage and modern collections that are pre-loaded onto the Airwave, a third, Boutique collection of hot-rod modified Supro cabinets can be downloaded for free when you register your Airwave on the Two notes website. Visit [SuproUSA.com/Airwave](http://SuproUSA.com/Airwave) to download artist presets and access more information about this unique tube amplifier from Supro.

## 2. ANATOMY AND USAGE

### 2.1 FRONT PANEL



#### INPUT

Instrument input.

#### VOLUME

Controls the gain of the preamp. Higher settings cause break-up in the preamp section.

#### TREB

Controls the amount of treble in your tone.

#### MIDS

Controls the amount of midrange in your tone.

#### BASS

Controls the amount of bass in your tone.

#### VERB

Controls the amount of reverb added to your signal. This function is foot-switchable.

#### SPEED

Controls the speed of the tremolo effect.

#### DEPTH

Controls the amount of tremolo added to your signal. This function is foot-switchable.

#### MASTER

Controls the volume and break-up of the power section of the amplifier.

#### STANDBY SWITCH

This turns on the high voltage to the tubes. The tubes should warm up for at least one minute before turning Standby switch to ON. Be sure that the Volume control is set to a reasonable position before switching the amplifier ON as this amplifier can be very loud! For short breaks (5 minutes or less), using the Standby switch will increase tube life.

#### PILOT LIGHT

This shows that AC Mains voltage is flowing to the amplifier.

#### POWER SWITCH

Turns on AC power to the amplifier. The Power switch should be turned on, and the pilot light should be lit for 1 minute before turning the Standby switch to ON.

## TWO NOTES DI CONTROLS

Note - these controls impact the DI and Headphone outputs only.

### PRE/POST

Determines where the audio signal is tapped to be sent to the Two notes DynIR system. In PRE mode, the signal from the preamp feeds the Two notes system and a “virtual” single-ended 6L6 power amp emulation is automatically engaged. PRE mode is indicated when this switch is Blue in color. In POST mode, the signal from the Airwave’s 6V6 power amp feeds the Two notes system. POST mode is indicated when this switch is Amber in color.

### GROUP A/B

Selects between the two available banks of on-board presets for the Two notes cabinet simulation. Group A (vintage) is indicated when this switch is Amber in color. Group B (modern) is indicated when this switch is Blue in color.

### PRESET

Selects one of six available presets from the currently active bank of cabinet simulations.

### CLIP

This LED indicates an overload condition on the input and/or output of the Two notes system.

## 2.2 REAR PANEL

### CAB SIM LEVEL

Controls the output volume of the Cab Sim XLR outputs and the headphone jack. Start with the knob at the 12:00 position. If you need more signal level from the DI output, turn this control up. If clipping occurs, turn this control down.

### REMOTE USB-C

Connect a PC or MAC via USB-C to use the Two notes Torpedo remote software

### CAB SIM OUT

Stereo XLR outputs for the Two notes cab simulator. Use the L/MONO jack when a mono signal is required. Use both jacks for stereo operation

### GND LIFT

Push this switch to eliminate unwanted hum from ground loops

### PHONE

¼” TRS output for use with headphones

### BOOST/DRIVE FTSW

Using a TRS cable, connect a two-button, latching footswitch to this jack to facilitate remote switching of the Boost and Drive functions.

TIP = BOOST

RING = DRIVE

### VERB/TREM FOOTSWITCH

Using a TRS cable, connect a two-button, latching footswitch to this jack to facilitate remote switching of the VERB and TREM functions.

TIP = VERB

RING = TREM

### SPEAKER MUTE / SPEAKER ON

Putting this switch in the up position puts a dummy load on the output of the amplifier, silencing the onboard speaker while still allowing you to monitor the sound via the XLR and headphone outputs.

Putting this switch in the down position, removes the dummy load and engages the speaker.

### 8-OHM EXT.

Connect an 8-ohm extension speaker cabinet here. When an 8-ohm extension cabinet is connected, the on-board speaker remains active, presenting a total load of 4-ohms to the amplifier.

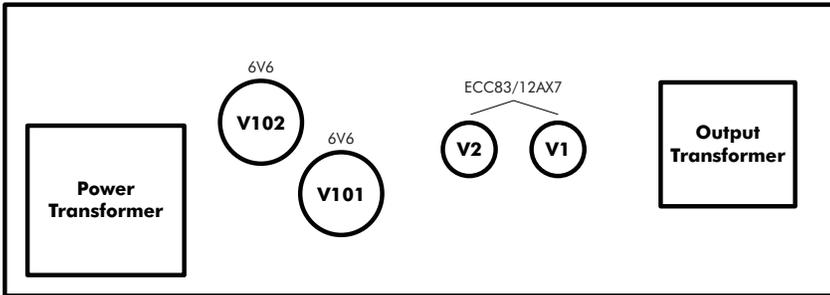
### RESET

This recessed switch causes the Two notes module to reboot.

## 2.3 TUBES

Each Supro tube amplifier is 100% analog.

Viewed from the rear of the chassis:



## 3. AIRWAVE DynIR CABINET SELECTIONS

### MODERN (GROUP A)

- Phil X '64 Super 1x8 combo
- Amulet 1x10 combo
- Delegate 1x12 combo
- Keeley 1x12 combo
- Airwave 1x12 combo
- Thunderbolt 1x15 combo

### VINTAGE (GROUP B)

- Vintage Super 1x8
- Vintage Comet 1x10
- Vintage Oahu 1x10
- Vintage Coronado mod 1x12
- Vintage Dual Tone 1x12
- Vintage Thunderbolt 1x15

### BOUTIQUE (REGISTER PRODUCT TO DOWNLOAD)

- Super 1x10 combo with Jensen Blackbird 10"
- Black Magick 1x12 combo with Jensen P12Q
- Black Magick 1x15 ext cab with Jensen Alnico 15"
- Ambassador 2x10 combo
- Black Magick 2x12 ext cab with Celestion Alnico Cream
- Royale 1x12 ext cab with Celestion Alnico Gold

## 4. TORPEDO REMOTE

Your gateway to edit all the parameters inside the Airwave.

### 4.1 USB CONNECTION



Use the supplied USB cable to connect the Airwave to your computer. Connect the micro USB end to the Airwave and the other end to your computer.

#### 4.1.1 SETUP WITH YOUR COMPUTER

Download Torpedo Remote from the [Airwave webpage](#). Choose the appropriate version in regards to your OS (Windows or macOS). Once Torpedo Remote is launched, you will be prompted to register the unit to your account or use it as a Guest (we advise registering the unit, for firmware updates, etc.). Receive exclusive presets and 6 additional cabinets when you register the Airwave to your account. The additional 6 free cabinets are only available for the first-hand owner of the Airwave. Once the unit has been registered to an account, it is not possible to redeem the 6 free cabinets in another account (if you are a second-hand owner for example).

When you are in Guest mode you cannot import cabinets from your personal Two notes license to the Airwave. You also cannot remove cabinets from the Airwave.

### 4.2 WIRELESS CONNECTION - SETUP WITH YOUR PHONE/TABLET

You will connect to the Airwave from your mobile device via Bluetooth. The connection has to be done in the following order:

- Launch the Torpedo Wireless Remote app
- Accept all the requested authorizations (they depend on your tablet or phone)
- The connection window should show up, follow the on screen instructions.
- Input the pin code to pair the Airwave and your mobile device.

**The pin code for Bluetooth pairing is the final 6 numbers of your Airwave's serial number.**

#### TROUBLESHOOTING:

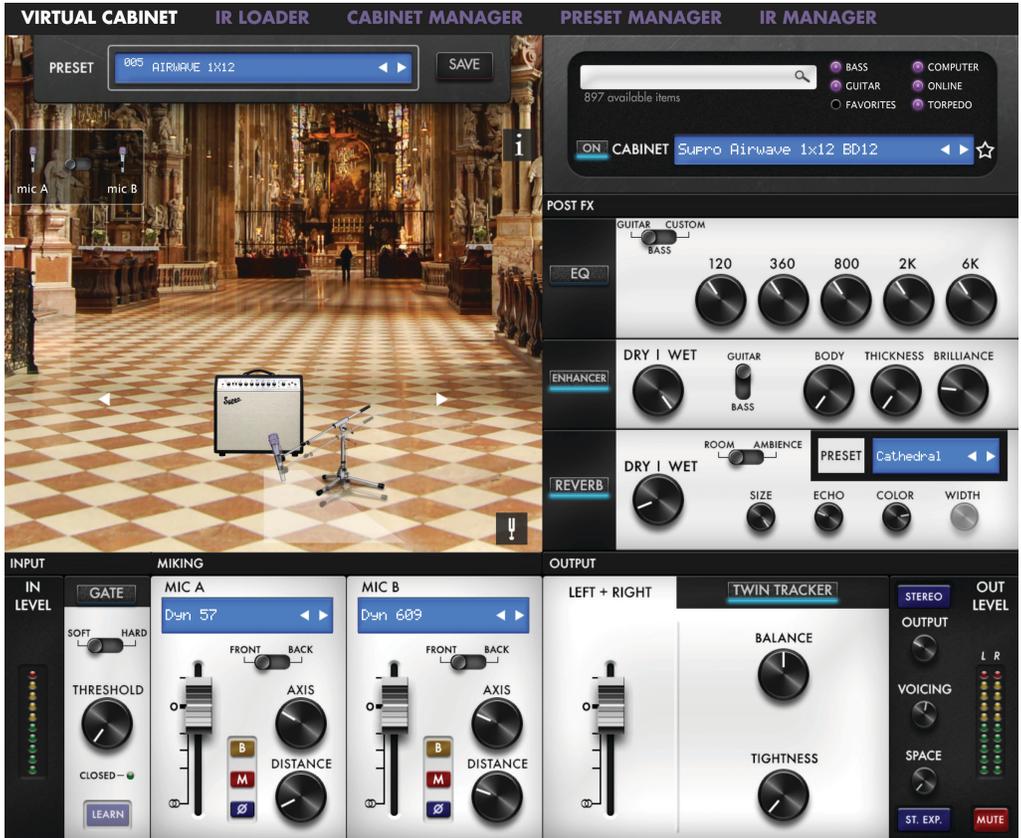
If after inputting the pin code the Airwave does not show up in the "Devices" menu in Torpedo Wireless Remote, you will need to unpair the Airwave in the list of devices that are paired in the Bluetooth menu of your phone. Once you have done this, please redo the procedure detailed above. You cannot pair the Airwave from the phone or tablet OS, it has to be done by Torpedo Wireless Remote. Some phones need to have the Location (GPS) activated to allow for Bluetooth pairing. Try activating the Location if you find yourself unable to pair with just the Bluetooth activated on your phone or tablet.

### 4.3 VIRTUAL CABINET / IR LOADER MODE

Control everything in the Airwave with Torpedo Remote. The software is built around 2 environments: Virtual Cabinet and IR Loader mode. Virtual Cabinet is designed for working with Two notes Virtual Cabinets. The Airwave is delivered with 12 cabinets already installed. When you register the Airwave to your Two notes account, you are offered 6 additional cabinets, as well as exclusive presets.

The additional 6 free cabinets and additional exclusive presets are only available for the first-hand owner of the Airwave. Once the unit has been registered to an account, it is not possible to redeem the 6 free cabinets in another account (if you are a second-hand owner for example). IR Loader is for the use of 3rd party IRs in .wav format. Both modes feature the same effects, and the same routing for the XLR outputs. Here is the global layout of the Torpedo Remote when used with a computer (Windows or macOS).

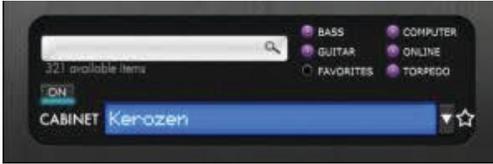
# 5. CREATING A PRESET WITH A VIRTUAL CABINET



A preset contains:

- a cabinet
- two (selected from a choice of 8) microphones and their positions within the room
- effects settings (eq, Enhancer, Reverb, Twin Tracker)
- levels for left and right outputs

## 5.1 CABINET CHOICE



To create a preset, first select a cabinet. Airwave comes with a collection of 12 Virtual Cabinets already loaded into the internal memory. Click on the blue screen or the arrow (next to it) to access the list of cabinets in your Airwave. You can choose to see only the cabinets stored in the unit by selecting "Torpedo". You can preview cabinets included in your license that are stored in your computer by selecting "Computer". Audition any cabinets from the Two notes Store by selecting "Online".

## 5.2 MICROPHONE CHOICE

All Two notes Virtual Cabinets come with an individual collection of 8 microphones specifically matched to the cabinet. You access the list of microphones by clicking in the blue window above the fader of the mic channel. Microphones are described by their technology: DYN is a dynamic microphone, CND is a condenser microphone and RBN is a ribbon mic.

### 5.2.1 POSITIONING



You can move the microphones anywhere in the trapezoid highlighted area, in front or behind the cabinet. Select Mic A or Mic B with the switch and move the microphone with your mouse (when using a computer) or your finger (when using a mobile device) by pressing on the mic or the mic stand.

### 5.2.2 MIC A / MIC B



Use the fader to set the volume level, front/back switch to place the mic in front or behind the cabinet, Bypass button to send an unprocessed signal (B), Mute button (M), Phase button, Distance and Axis knob to position the mic.

## 5.3 SHAPING YOUR TONE

Airwave has many tools to polish your sound before going to the Public Address system (PA) or the audio interface.

### 5.3.1 NOISE GATE



The noise gate is useful if you are using a high gain amp and want to keep your signal quiet when you are not playing, or use vintage style single coil pickups. The threshold sets the level where the noise gate is active: if you are over this level the noise gate is off, if you are under, the noise gate is active. The Learn button automatically sets the Threshold level. Keep your guitar volume to the maximum, mute your strings with your hand and click on the Learn button. The Noise Gate will listen to the input sound and set the threshold level accordingly. Make sure to mute your strings for at least 3 seconds so the Learn can properly analyse the input signal.

### 5.3.2 EQ



The EQ section has 3 modes of operations: guitar, bass and custom. Guitar and Bass are 5 band eqs, with a gain range of -20dB to +20dB. The Custom mode gives you access to a 5 band semi parametric eq and a high pass filter.

Guitar mode: 120Hz, 360Hz, 800Hz, 2000Hz, 6000Hz (center frequency of each band from the lower to the highest).

Bass mode: 50Hz, 120Hz, 360Hz, 800Hz, 4000Hz (center frequency of each band, from the lowest to the highest)

Custom mode: the bands are as follow:

- Low Cut: low cut, 10 - 500Hz (12 dB per octave slope)
- Low: low shelf, 60 - 240 Hz, +/-20dB
- LMid: peak, 180 - 720 Hz, +/-20dB
- Mid: peak, 400 - 1600 Hz, +/-20dB
- HMid: peak, 1 - 4 kHz, +/-20dB
- High: peak, 3 - 12kHz, +/-20dB

### 5.3.3 ENHANCER



The Enhancer is a combination of dynamic and tone-shaping tools especially tailored for your guitar and/or bass.

The Dry/Wet allows you to balance the cab sim signal and the processed signal by the Enhancer. At zero (knob turned all the way down), only the cab sim signal is heard. At halfway position, the level of the cab sim signal is equal to the level of the enhancer. At full (knob turned all the way up), you are only hearing the signal processed by the Enhancer.

Body is a compressor with a high-pass filter (set at 100hz in Guitar mode and 150hz in Bass mode). It only affects the low-mids and above frequencies of the signal. Body will render your tone fuller and more present. Thickness and Brilliance emphasize the low end and high end of the tone, respectively.

Thickness is centered at 400 Hz in Guitar mode and 150 Hz in bass mode.

Brilliance is centered at 1500hz in Guitar mode and 2000hz in bass mode. Both Thickness and Brilliance have a gain range between 0 and +15dB.

### 5.3.4 REVERB



There are 12 room reverbs and one full 'custom' reverb in the Airwave.

When using the Custom Reverb, you have access to the following parameters:

- Dry/wet: adjusts the level of the incoming signal and the reverb. With the knob at halfway, both levels are equal.
- Size: adjusts the size of the room. From tiny to gigantic.
- Echo: adjusts the level of the reflections.
- Color: adjusts the tone of the reverb from darker to bright.

There is also a switch to change the acoustic characteristics of the reverb:

- Room: plenty of early reflections with a bright sound.
- Ambience: subtle early reflections and a bass-heavy response.

## 5.4 IMPORTING CABINETS IN THE AIRWAVE

To import or remove cabinets in the Airwave, you need to register your Airwave via Torpedo Remote to your Two notes account. You cannot import or remove cabinets when using Torpedo Remote in Guest mode. Use the CABINET MANAGER tab to manage the Two notes Virtual Cabinets in Airwave. The Left panel indicates the cabinets available on your computer. The right panel shows the Virtual Cabinets stored in the unit.

VIRTUAL CABINET
IR LOADER
CABINET MANAGER
PRESET MANAGER
IR MANAGER

**Licensed Two notes virtual cabinets**

BASS  
 GUITAR
 

 TORPEDO  
 FAVORITES

Name	Type	Size	Action
⋮ 2Notes CSB	Bass	1x15	LOAD
⋮ AE BritOS 212 Red	Guitar	2x12	LOAD
⋮ AE Calib 212 P12N	Guitar	2x12	LOAD
⋮ AE CaliDeluxe 112 Legend	Guitar	1x12	LOAD
⋮ AE Eldorado 212 X12	Guitar	2x12	LOAD
⋮ AE LumberLeaver50 412 Shef	Guitar	4x12	LOAD
⋮ AE NashvilleMaestro 112 Ori...	Guitar	1x12	LOAD
⋮ AE PeggyRocket 112 P12	Guitar	1x12	LOAD
⋮ AE Petaluma 412 Vint	Guitar	4x12	LOAD
⋮ AE PrinceTown 110 P10	Guitar	1x10	LOAD
⋮ AE Voice 212 Blue	Guitar	2x12	LOAD
⋮ Alu XL	Bass	4x10	LOAD
⋮ Angl Pro30	Guitar	4x12	LOAD
⋮ Angl VintC	Guitar	4x12	LOAD
⋮ BDeLuxe	Guitar	1x12	LOAD
⋮ BHG Exquisite Green	Guitar	2x12	LOAD
⋮ BassFlex	Bass	1x15	LOAD
⋮ BigBeast	Guitar	4x12	LOAD
⋮ Blonde 63	Guitar	2x12	LOAD
⋮ BoGreen	Guitar	4x12	LOAD
⋮ Brit 60A	Guitar	4x12	LOAD
⋮ Brit 65C	Guitar	4x10	LOAD
⋮ Brit 65O	Guitar	4x10	LOAD
⋮ Brit Std	Guitar	2x12	LOAD
⋮ Brit VintC	Guitar	4x12	LOAD
⋮ Brit VintO	Guitar	4x12	LOAD
⋮ Bull Neo2	Bass	2x10	LOAD
⋮ Calif C90	Guitar	1x12	LOAD
⋮ Calif StdC	Guitar	4x12	LOAD
⋮ Celestion Ruby Open 1x12	Guitar	1x12	LOAD
⋮ Copperback Closed 4x12 Ce...	Guitar	4x12	LOAD

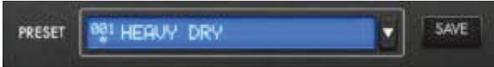
**Supro Airwave virtual cabinets**

Slot	Name	Action
⋮ 1	Phil X Super 108	UNLOAD
⋮ 2	Supro Amulet 1x10 Cream	UNLOAD
⋮ 3	Supro Delegate 1x12 Green	UNLOAD
⋮ 4	Supro Keeley Custom 1x12 ...	UNLOAD
⋮ 5	Supro Airwave 1x12 BD12	UNLOAD
⋮ 6	Supro Thunderbolt 1x15 TB15	UNLOAD
⋮ 7	Supro Vintage Super 1x8 Sp...	UNLOAD
⋮ 8	Supro Vintage Comet 1x10 ...	UNLOAD
⋮ 9	Supro Vintage Luau 1x10 Or...	UNLOAD
⋮ 10	Supro Vintage Coronado 1x...	UNLOAD
⋮ 11	Supro Vintage Dual-Tone 1x...	UNLOAD
⋮ 12	Supro Vintage Thunderbolt ...	UNLOAD
⋮ 13	Supro Supreme 1x10 Blackbird	UNLOAD
⋮ 14	Supro Black Magick 1x12 P1...	UNLOAD
⋮ 15	Supro Black Magick 1x15 BB	UNLOAD
⋮ 16	Supro Ambassador 2x10 BD10	UNLOAD
⋮ 17	Supro Black Magick 2x12 Cr...	UNLOAD
⋮ 18	Supro Royale 1x12 Gold	UNLOAD

To import a cabinet that is stored in your computer to the unit, you need to free space by unloading one or more cabinet located on the right panel. Drag and drop any cabinets from the left panel (your computer) to the right panel for the import in the Torpedo or click the load button to move the cabinet from the left panel to the right panel.

In CABINET MANAGER, you can rearrange the order of the DynIR cabinets in the Airwave. Select one cabinet, and move it up and down the list to change its designated slot.

## 5.5 SAVING AND LOADING PRESETS



The preset rack at the top of the screen lets you save and load presets in the Airwave. There are 128 memory slots for presets.

Use the PRESET MANAGER tab to manage the presets in Airwave. The Left panel indicates the preset folders on your computer. The right panel shows the presets stored in the unit.

VIRTUAL CABINET
IR LOADER
CABINET MANAGER
**PRESET MANAGER**
IR MANAGER

**Available preset files**

~/Users/davidkoltai/Documents/Two notes Audio Engineering/Presets ▾ ⬆

- ▶ 12-6-24
- ▶ Airwave Beta 1
- ▶ Airwave Beta 2
- ▶ CAB
- ▶ CAB M
- ▶ CAB M Plus
- ▶ CAB M Plus New Presets
- ▶ Captor X
- ▶ Captor X SE
- ▶ Live
- ▶ OPUS
- ▶ Revv D20
- ▶ Revv D40
- ▶ Revv G20
- ▶ Revv G120 & G100
- ▶ Sono
- ▶ Studio

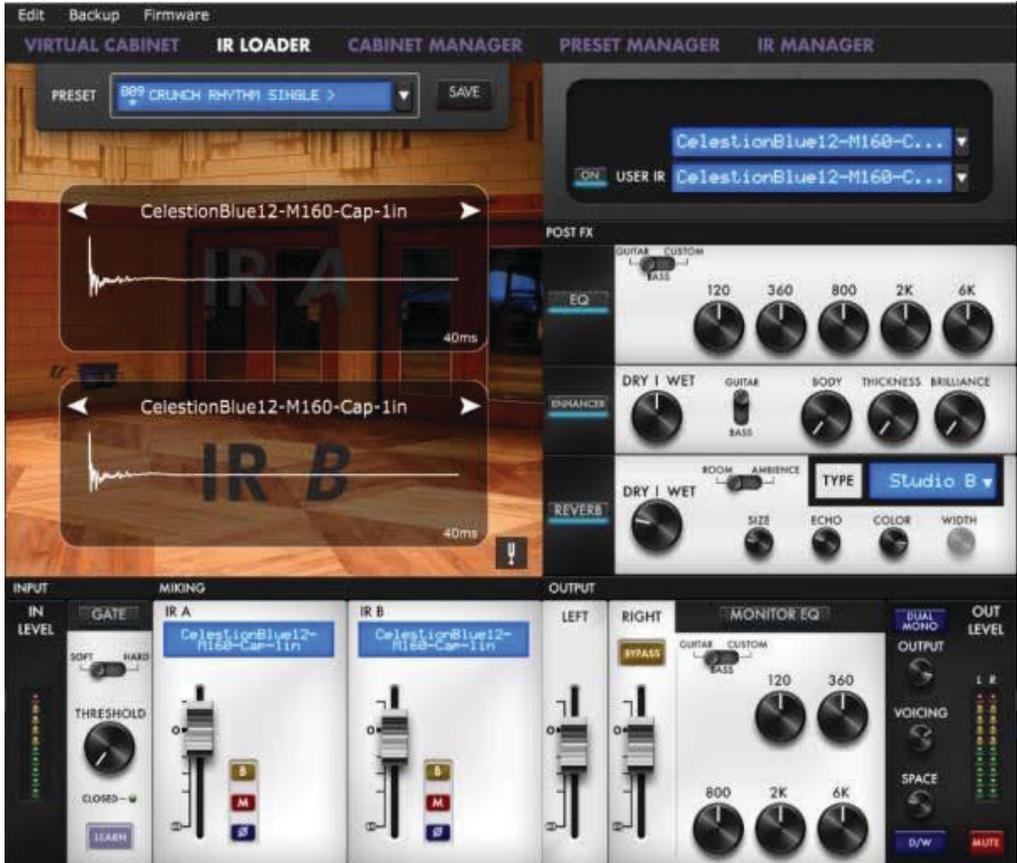
file:

**Supro Airwave presets**

Slot	Name	Type
:: 001	PHIL X SUPER 108	Virtual Cabinet
:: 002	AMULET 1X10	Virtual Cabinet
:: 003	DELEGATE 1X12	Virtual Cabinet
:: 004	KEELEY 1X12	Virtual Cabinet
:: 005	AIRWAVE 1X12	Virtual Cabinet
:: 006	THUNDERBOLT 1X15	Virtual Cabinet
:: 007	VINTAGE SUPER 1X8	Virtual Cabinet
:: 008	VINTAGE COMET 1X10	Virtual Cabinet
:: 009	VINTAGE OAHU-INSPIRED 1X...	Virtual Cabinet
:: 010	VINTAGE CORONADO 1X12 ...	Virtual Cabinet
:: 011	VINTAGE DUAL-TONE 1X12	Virtual Cabinet
:: 012	VINTAGE THUNDERBOLT 1X15	Virtual Cabinet
:: 013	VINTAGE THUNDERBOLT 1X15	Virtual Cabinet
:: 014	USER	Virtual Cabinet
:: 015	USER	Virtual Cabinet
:: 016	USER	Virtual Cabinet
:: 017	USER	Virtual Cabinet
:: 018	USER	Virtual Cabinet
:: 019	USER	Virtual Cabinet
:: 020	USER	Virtual Cabinet
:: 021	USER	Virtual Cabinet
:: 022	USER	Virtual Cabinet
:: 023	USER	Virtual Cabinet
:: 024	USER	Virtual Cabinet
:: 025	USER	Virtual Cabinet
:: 026	USER	Virtual Cabinet
:: 027	USER	Virtual Cabinet
:: 028	USER	Virtual Cabinet
:: 029	USER	Virtual Cabinet
:: 030	USER	Virtual Cabinet
:: 031	USER	Virtual Cabinet
:: 032	USER	Virtual Cabinet
:: 033	USER	Virtual Cabinet

Move the presets up and down to change their order in Airwave. The first 12 slots are accessible by the PRESET knob and GROUP A/B switch on the front of the unit. Remove presets by dragging and dropping them in the bin below. Drag and drop presets from the left panel (your computer) to the right panel (internal memory of the Airwave).

## 6. CREATING A PRESET WITH A 3RD-PARTY IR



The Airwave can load up to 512 IRs. All imports of IRs are done by Torpedo Remote through the IR manager (via computer). Upon upload into the Airwave, the IRs length can be set to 20, 40, 100 or 200 ms long. If the IR is longer it will be shortened by Torpedo remote to the selected length. If it is shorter it will be extended (filled with zeros) to the selected length. The internal memory has the following allowances regarding the length of the IR:

- 512 slots for 20ms IRs, in 4 banks of 128 slots
- 256 slots for 40ms IRs, in 4 banks of 64 slots
- 84 slots for 100ms IRs, in 4 banks of 21 slots
- 44 slots for 200ms IRs, in 4 banks of 11 slots

### 6.1 IR CHOICE

To use custom made IRs with Torpedo BlendIR or 3rd-party IRs, you need to select IR Loader mode in Torpedo Remote. The window will have a similar layout to the Virtual Cabinet. you can load one IR per channel, and have the same control on each channel: mute, bypass, phase, and volume with the fader. You will then be able to shape the tone with the EQ, the Enhancer and the Reverb.

## 6.2 IMPORTING IRS IN THE AIRWAVE

**Torpedo IR format**

IR length

20 ms

40 ms

80 ms

Align IR

Min. phase

Min. IR latency

Original

**Available IR files**

/Users/davidkoltai/Documents/Two notes Audio Engineering/Impulses

- Bogie212VTY\_NV\_57\_421\_Mix1.wav
- BogOS412V30\_GERM\_421Cap\_121\_0\_Cap\_EQ.wav
- Brit74M20\_160\_121\_Mix1.wav
- Brit1960V30\_CG\_609\_421\_Mix1.wav
- FDTwrC12K\_NV\_103\_421\_Mix1.wav
- FendCSPrince\_NV\_609\_0in\_CapEdge.wav
- Hlwa412SWF\_160\_421\_Mix1.wav
- HK412G12ME\_7B\_421\_Mix1.wav
- Mgan112AlBlu\_87\_201\_Mix1.wav
- SuurPT212CB65\_NV\_906\_0in\_CapEdge.wav

file: Bogie212VTY\_NV\_57\_421\_Mix1.wav

Optimize bank's memory

Supro Airwave User IRs				
User 0		User 1	User 2	User 3
Slot	Name			Length
1	Bogie212VTY NV 57 421 Mix1			80ms

The left panel is the files on your computer. You can browse the folders where you have stored your IRs. The right side represents the IR files that are loaded in the Airwave. You can drag and drop the IRs from the computer (left) to the Torpedo (right). If you wish to free memory slots in the pedal, you can drag and drop the IRs to the bin at the bottom. (this does not delete the IR from your collection, only from the Airwave).

You have access to some options to modify the IR file for the transfer:

- IR length: increasing the IR length will improve the resolution of the Torpedo processing (more precision will lead to better accuracy in the low end). Please note that a 40ms IR will take 2 slots in your Airwave's internal memory.
- IR offset: you have access to 3 options that will change the way the IR file will be processed:
  - Min Phase: an algorithm will move the samples in the file so it will sound in phase with any other IR file (provided you use that function to transfer the other files as well).
  - Min. IR Latency: the file is cut so there is no silence before the first sample, this can lead to a change in the sound but your latency will be minimal.
  - Original: the samples in the file remain untouched. You may experience phase cancellation issues with mixing it with other IR files.

It is possible to use IRs that are stored on your computer's hard drive directly. When doing so, you will be in Preview mode. You will only be able to use one IR at a time, in IR A. You will be able to save the preset on your computer using this IR, but not to the Torpedo. To have full capacities when using IRs, import the files in the Torpedo.

## 7. OUTPUT ROUTING



The Airwave allows for different routings of the XLR outputs. They can be set to STEREO or to DUAL/MONO. To change routing, click on the purple button above the output level knob.

## 7.1 STEREO ROUTING

In Stereo, both outputs send the same cab sim signal. In Stereo, you have access to the Twin Tracker and all reverbs are stereo.

### 7.1.1 THE TWIN TRACKER



Twin Tracker is an automatic double tracker. Your mono amp sound is routed to the left output and Twin Tracker creates another track (a virtual guitarist) on the right channel in real-time. The slight differences in timing and attack contribute to a beefed-up tone and massive sound.

It has 2 parameters:

- Balance: sets the level of the twin tracker. If turned all the way down, you will only hear the left output of the Airwave.
- Tightness: sets the delay of the virtual guitarist. The latency can reach 70 ms. (if you plug only the right XLR output and notice an enormous amount of latency while playing, check that you are not in Stereo routing with the Twin Tracker on and that the Tightness parameter is at its highest point).

The Twin Tracker is only available in Stereo routing. When on, the Width of the reverb is automatically set to 100%.

### 7.1.2 STEREO REVERB

In stereo, you can set the stereo size of any rooms with the Width parameter: from mono (knob turned all the way to the left) to full wide stereo (knob turned all the way to the right).

### 7.1.3 VOICING



The VOICING control allows you to adjust the global sound of the unit coming out of the XLR outputs. It is a simple one band equalizer that is centered at 900 Hz with a -12 to +12 dB range.

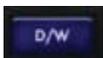
### 7.1.4 SPACE KNOB ASSIGNMENT



On the front panel, the SPACE knob allows you to control one parameter on the fly. You will assign the behavior of SPACE in Torpedo Remote, through the purple button below the SPACE knob in the software. Here are the different assignment possibilities:



There are two possible behaviors. Either, Twin Tracker is OFF. The SPACE knob is assigned to the width of the reverb. Or, Twin Tracker is ON. The Space knob is assigned to the Tightness of the Twin Tracker. The Width of the reverb is automatically set to 100%.



The SPACE Knob is assigned to the Dry/Wet level of the reverb.

## 7.2 DUAL MONO ROUTING

**VIRTUAL CABINET**   **IR LOADER**   **CABINET MANAGER**   **PRESET MANAGER**   **IR MANAGER**

PRESET: 005 AIRWAVE 1X12   SAVE

mic A   mic B

ON CABINET Super Airwave 1x12 BD12

POST FX

EQ: GUITAR CUSTOM BASS 120 360 800 2K 6K

ENHANCER: DRY | WET GUITAR BODY THICKNESS BRILLIANCE BASS

REVERB: DRY | WET ROOM AMBIENCE PRESET Cathedral SIZE ECHO COLOR WIDTH

INPUT: IN LEVEL GATE SOFT HARD THRESHOLD CLOSED LEARN

MIKING: MIC A Dyn 57 FRONT BACK AXIS DISTANCE MIC B Dyn 609 FRONT BACK AXIS DISTANCE

OUTPUT: LEFT RIGHT BYPASS GUITAR CUSTOM BASS 120 360 800 2K 6K MONITOR EQ DUAL MONO OUTPUT VOICING SPACE D/W MUTE OUT LEVEL

This routing allows you to send independent signals from each XLR outputs. You will be able to set a different EQ and dry/wet reverb level to the right XLR output. The layout of the Torpedo Remote will show you an additional EQ next to the right output fader.

### 7.2.1 ADDITIONAL EQ



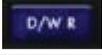
You can set a different EQ on the right output. All the parameters of the EQ are the same as the general EQ. See section 4.2.3.2 for the description of each mode, band, and setting.

### 7.2.2 DRY/WET REVERB SETTING

You can set 2 different Dry/wet reverb levels for each XLR outputs. The parameter in the reverb rack is only editable through Torpedo Remote. Depending on the SPACE knob assignment, the Dry/wet in the reverb rack will affect the Left or the Right XLR output.

## 7.2.3 SPACE KNOB ASSIGNMENT

It is possible to set different behaviors to the SPACE Knob:

SPACE Knob Assignment	Behavior
	The SPACE knob controls the Dry/Wet Reverb level for both XLR outputs.
	The SPACE knob controls the Dry/Wet Reverb level for the Left XLR outputs.
	The SPACE knob controls the Dry/Wet Reverb level for the Right XLR outputs.

## 7.2.4 THE “BYPASS TORPEDO PROCESSING”



When the Bypass button is activated on the Right output channel, the whole Torpedo process is bypassed. The Right XLR output is sending the dry amp sound. This is an ideal setup when you wish to record your amp. You will record the full cab sim signal from the Left XLR output, while at the same time recording the dry amp sound from the Right XLR output.

## 8. TUNER



Access the tuner by clicking on the fork button at the bottom of the Room image. The tuner is fully chromatic. You can set the base tuning point in the Setup Manager anywhere between 410hz and 490hz, defaults at 440hz.

## 9. FLASHING RED LED

The Airwave is equipped with a red LED to signal the following events or issues with your Airwave:

- Clipping of the input or the output stages of the Two notes module in the Airwave
- File transfer with the Remote software
- System errors, unrelated to the incoming signal

## 10. CLIP LED

### 10.1 CLIPPING THE INPUT OR OUTPUT

It is possible to overload the input or output stages of the Two notes module in the Airwave. The red LED will then light up, according to the signal. Start by turning the Rear panel Output Level down. If the LED is still lighting up when you play, you are clipping the input of the Two notes module in the Airwave. If you are still clipping the input stage of the Two notes module in the Airwave, turn down the volume of the amp until the red LED turns itself off.

With Torpedo remote, you can see the input and output levels through the dedicated VU meters.

### 10.2 COMMUNICATION WITH REMOTE

When a file transfer is occurring between the Airwave and the Remote software, the red LED acts as a progress indicator: it flashes when a certain percentage of the data is actually sent. This allows you to check if the transfer is occurring normally, or stalled.

This happens when transferring virtual cabinets, IR files, and firmware files (during firmware updates).

### 10.3 SYSTEM ERROR

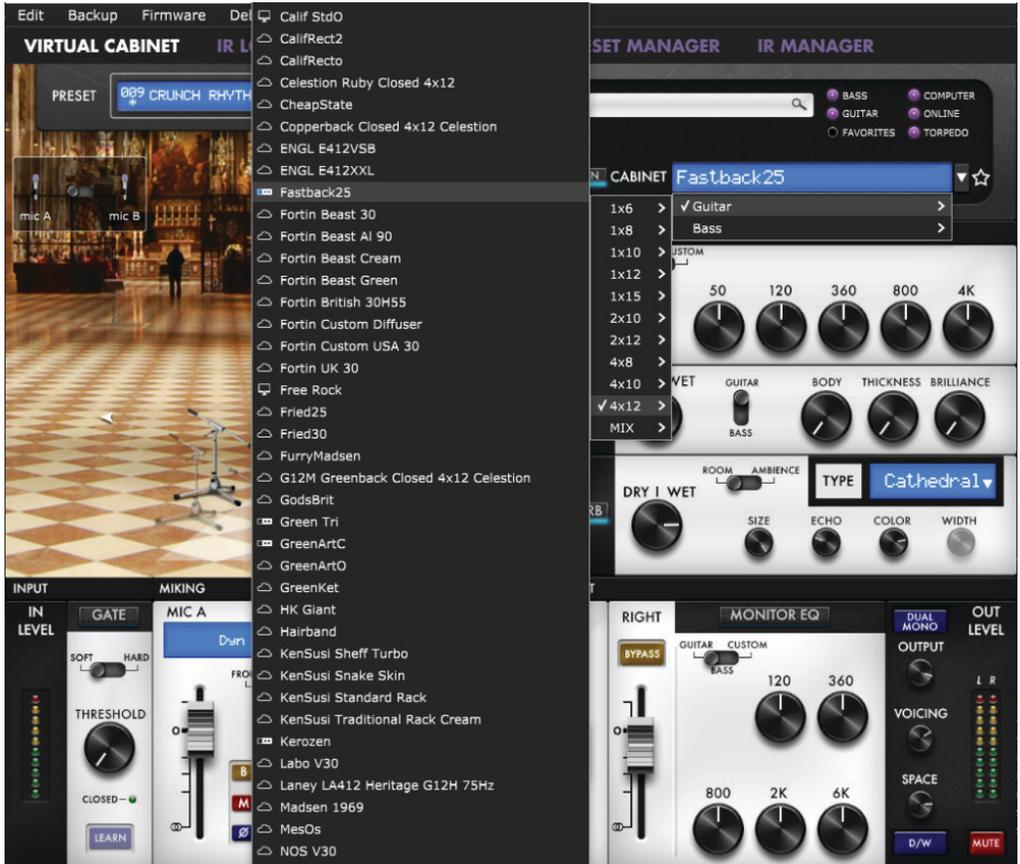
The Airwave red LED flashes when an error is detected inside the firmware of the unit.

To differentiate system error LED flashes from input or output clipping errors, turn off your amp, and disconnect it from the Airwave. If the Airwave keeps flashing red light while being unplugged from the amp, this shows a system error. You can decipher the flashes with this article on [LED report](#). Please submit a ticket on [the helpdesk](#) with the transcription of the LED report.

# 11. WANT MORE CABS?

## 11.1 TWO NOTES CABINETS

You can preview any cabinets that are not in your license when using Desktop Remote. This is why when you browse the cabinets in the Remote the list is way bigger than what you have in your license or in your Airwave.



You will see 3 types of icons in front of the names of the cabinets :

	Cabinets which are on your Torpedo unit.
	Cabinets which are on your license loaded in your computer
	Cabinets which you do not own but can preview before buying them on the Two notes Store.

When you are previewing a cabinet that is on your computer (which means that you own it and it is in your license stored in your computer), the Remote needs to load the cabinet first so you can edit all the parameters. As you are previewing, you will only have access to one microphone for the cabinet. Audio is still going through the unit, so you can use the Airwave as you would normally.



This box allows you to transfer the cabinet you are previewing from your computer to your Airwave (as long as you have memory slots available in your unit).

When you are previewing a cabinet that you do not own, random silences are inserted and you only have access to one mic to preview the cabinets.



You can add the previewed cabinet in the Store Cart by clicking on the trolley with the plus sign. This operation can be repeated for any cabinets.



When you want to finalize the cart and buy the cabinets you have selected, click on the trolley with the green tick and you will be taken to the online Two notes Store. The trolley with the minus sign allows you to remove the current cabinet from the cart.

For your security, no billing or information on the payment method is stored on the Remote.

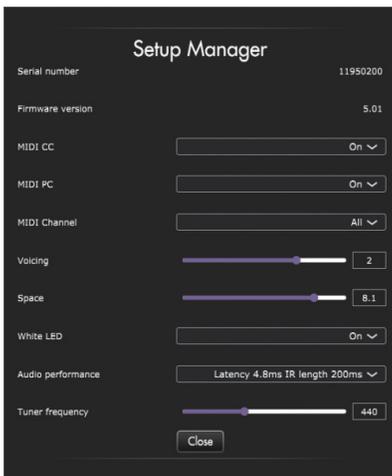
## 11.2 .TUR FILES

.tur are proprietary files created with the Two notes Audio Engineering Torpedo BlendIR software. The software is available for download from the Two notes Audio Engineering website. With Torpedo BlendIR you are able to use the Torpedo technology to capture the sound signature of your own cabinet and microphone in the deepest details.

To load a file into the Torpedo, place it in the default Impulse directory, or select the directory containing the files through Torpedo Remote (this can be done in the menu). You can then load the files into the Torpedo through the Memory Manager or directly listen to them through the main Remote window.

Please note that with .tur files you do not have access to the microphone positioning parameter.

## 12. SETUP MANAGER



## **13. TWO NOTES TECHNICAL SUPPORT**

Should you encounter a problem with the Two notes functionality of your Airwave or need help regarding any technical aspects, please note that Two notes Audio Engineering has developed on-line services to provide you with fast and efficient technical support, the Two notes Help Desk.

Don't hesitate to browse the Knowledgebase, which contains all sorts of useful information, or submit a ticket if you have any question or need assistance with a Two notes product.

## **14. TROUBLESHOOTING**

Supro products have been designed for years of trouble free service. There are many unique protection features to the design. If you are having difficulties, check the following:

No sound, but pilot light is ON

Check to see that the speaker is plugged into the speaker jack (not the footswitch jack). Make sure all knobs are turned up past zero and that the Standby switch is set to operate. As this is a tube amplifier, the tubes take approximately 1 minute to warm up before you will get sound. The Standby switch should be set to standby for this warm up period.

No sound and the lights are all OFF

Unplug the power cord and check the 3A,250V(100V-120V); 2A,250V(220V-240V) fuse. If you have any further questions, our email address is [support@suprousa.com](mailto:support@suprousa.com).

# 15. SUPRO WARRANTY POLICY

## 15.1 USA/CANADA WARRANTY

To validate the warranty on your Supro tube amplifier, please register the product online at <http://suprousa.com/warranty/>.

This warranty applies only to the original retail purchaser when this amplifier is purchased from an authorized Supro dealer and is subject to the limitations set forth herein.

**Important:** Please retain your original sales receipt, as it is your proof of purchase validating this limited warranty. This warranty shall cover the following components as below:

- Amplifiers: 1 year, extended\* to 2 years
- Speaker enclosures: 1 year, extended\* to 2 years
- Tubes and speakers: 90 days

\*Note: The extended warranty will be automatically applied when you register online at <http://suprousa.com/warranty/>. The extended warranty period is only applicable if the above form is submitted prior to the expiration of the initial 1 year warranty which begins at the date of purchase. It is your responsibility to submit this information and we shall not be liable nor do we accept any responsibility whatsoever for non-receipt of this information.

### **What is Covered:**

Defects in the materials and/or workmanship of your product which has been purchased through an authorized Supro USA dealer. This warranty shall be applicable when the original sales receipt or proof of purchase of the product is presented together with the defective product.

### **What is not Covered:**

Damage caused by negligence, modification, improper use, incorrect voltages or general wear and tear. Damage caused during transportation of the product. Damage caused by repair or service carried out by persons not authorized by Supro USA. A product with a serial number which has been defaced, removed etc. A product which was not purchased from an authorized dealer in the USA or Canada.

### **Warranty Service:**

The warranty service may include repairs or replacement of the product in accordance with the terms set out herein. If we are unable to repair the defective product, we reserve the right to provide you with a replacement which may or may not be a reconditioned product.

Do not attempt to repair the device as this will void the warranty.

In the event a repair or replacement has been made, we shall be entitled to take and keep possession of the defective product which is deemed to be beyond repair during the warranty period.

Providing the defective product is covered by the terms of this warranty we shall be responsible for the cost of returning your unit to you.

### **How to Obtain Warranty/Non-Warranty Service:**

Complete the service email form available at <http://suprousa.com/support/>.

You will receive a Supro USA Return Authorization Form from a Supro support technician.

You must download, print and complete the Supro USA Return Authorization Form. Provide the info requested on this form, and include a copy of the original purchase receipt. Please enclose these two documents with your amplifier, and ship to the Supro USA service dept:

Supro USA  
Attn: Repairs>Returns  
200 Wilson St. BLDG F, Suite 1 Port Jefferson Station, NY 11776

For amplifiers owned less than 30 days, Supro USA will pay ground shipping both ways.

For amplifiers owned over 30 days and less than 365 days, (except extended warranty, which will be extend coverage for 2 years), customer pays shipping to Supro USA and Supro USA pays return ground shipping. If the amplifier is returned to Supro and the cause is proven to be oversight or user error, customer will be responsible for return shipping.

For non-warranty service, the customer pays return shipping both ways. Repair charges must be paid within 60 days of completion or it becomes the property of Supro USA.

## 15.2 INTERNATIONAL WARRANTY

(For customers outside of the United States and Canada)

Supro USA has chosen only the best dealers and distributors to work with.

- 1) Call the Supro dealer that you purchased your amplifier from. Inform them of the nature of the problem you are having. Most often they will be able to assist you with replacement parts or service.
- 2) If your dealer is unable to help, call the authorized Supro distributor in your country (you can find their details on our website). They have the technical staff and experience to assist you, and also have all of the resources of Supro engineers at their disposal.
- 3) If you are still unable to get the assistance you require or you feel you have a problem that the distributor cannot resolve, contact us directly by sending an e-mail to [support@suprousa.com](mailto:support@suprousa.com).

**Manufacturer:**

DAG Audio LLC, 141 West 28th St. 4th Floor,  
New York, NY 10001

**Commercial Importer, EU:**

BOND AUDIO GmbH & Co. KG., Lichtstrasse 25,  
50825 Cologne, Germany

