Congratulations on your selection of the TN100 TONE NAVIGATOR Frank Gambale Midi guitar preamp. The TN100 is the ultimate digitally controlled analog preamp. The signal path "TONE GENERATION" is totally analog. No algorithms of simulated tone here. We worked with guitarist Frank Gambale to perfect a preamp with enough preshaping, EQ controls and internal effects to Navigate to the ultimate Tone. The Tone Navigator’s unique EQ section includes the normal BASS, MID, TREBLE, and PRESENCE plus two Mid-sweep stages only found on high-end studio consoles. If you’re like most guitarist and thought, "if only I could tweak the Mid frequencies just a little my sound would be perfect," then this preamp is a dream come true. The Tone Navigator’s dual mid-sweep controls allow you to tweak the mids twice. Covering the full guitar spectrum and beyond. The Tone Navigator allows you to store 99 MIDI accessible patches of Clean1(scooped), Clean2(flat), Crunch, or Distortion tones. The internal dual effects engines add lush Reverb, Delay, Chorus, and Flange effects to any patch. The optional FS22 footswitch will allow remote selection of a patch. For full MIDI remote control, add a Midi footswitch.

- One button access for each tone control
- Vacuum Florescent Display for high visibility in light or dark conditions
- Large two digit patch number display for long distance viewing
- 119 patches (99 user and 20 Frank Gambale set)
- Front and Rear panel 1/4” input
- Rear 1/4” unbalanced and XLR balanced outputs
- Cabinet Voiced (Output 2) 1/4” & XLR outputs
- Effects loop with Stereo Return
- FS-22 Footswitch jack and MIDI IN and Thru
- Premium construction and universal 120/230 Volt AC power supply
- 19” 1U all steel chassis with Chrome front panel and knobs

RECEIVING INSPECTION—read before getting started

INSPECT YOUR AMP FOR ANY DAMAGE which may have occurred during shipping. If any damage is found, please notify the shipping company and CARVIN immediately.

SAVE THE CARTON & ALL PACKING MATERIALS. In the event you have to re-ship your unit, always use the original carton and packing material. This will provide the best possible protection during shipment. CARVIN and the shipping company are not liable for any damage caused by improper packing.

SAVE YOUR INVOICE. It will be required for warranty service if needed in the future.

SHIPMENT SHORTAGE. If you find items missing, they may have been shipped separately. Please allow several days for the rest of your order to arrive before inquiring.

RECORD THE SERIAL NUMBER on the enclosed warranty card for your records. Keep your portion of the card and return the portion with your name and comments to us.

USA customers register online at: www.carvin.com/registration
All other countries register online at: www.carvinworld.com/registration

TN100 SERIES SPECIFICATIONS:

- Input Impedance: 10k ohms
- Channels: 99 user, +20 Frank Gambale set
- Tone Pre-Shapes: Clean 1, Clean 2, Crunch and Dist.
- Tone Controls: +/-32 steps
  - BASS: 80Hz
  - MID: 700Hz
  - TREBLE: 7k Hz
  - PRESENCE: 11k Hz
  - Sweep 1: 90 - 4.4k Hz
  - Sweep 2: 200 - 9.5k Hz
- Line Out: 1.5 VAC @ full power
- Midi In Phantom Power: 9V DC @ 100mA, Pin 3+, Pin 1-
- Power: 90V or 250V AC
- Fuse: 5 amp 250V internal
- Dimensions: 17.5” H x 19” W x 8” D
- Net Weight: 6 lbs
- Warranty: One Year
- Options: FS22
Frank Gambale Guitar Pre-amp

Each time you press the UTILITY button will move the cursor to the right one character. Use the ADJUST knob to change the character. When you are done press the SAVE button to save your changes. Press any other button to skip saving and you will lose the changes you have made.

B) Next is 'MIDI Channel'.

Press the UTILITY button to see the current MIDI channel the preamp is set to receive MIDI Program changes on. Use the ADJUST knob to change channels.

C) Factory Reset:

To re-load the factory presets for patches 1 - 99. Press the UTILITY button again to enter the Reset mode.

You must then use the ADJUST knob to change the 'NO' to 'YES', then press the UTILITY button again to complete the Factory Reset. You will be returned to the patch number you were previously on.

10. CLEAN1, CLEAN2, CRUNCH, and DIST

CLEAN1 is a scooped mid style with accent on the high end. CLEAN2 is a flatter style of clean that brings out the mids. CRUNCH is a slight mid heavy light distortion. DIST is a full blown saturated and scooped lead-distortion. Only one tone may be selected at any time.

11. GAIN

Used to control the input gain of the front-end. Adjusts from 0 to 64. Pickup selection will affect gain settings. Lower gain setting if distortion heard on clean channels.

12. VOLUME

Used to control and equalize the volume of each patch. Adjusts from 0 to 64.

13. BASS, MID, TREBLE, and PRESENCE

One button access to each of the basic tone controls. BASS at 80 Hz, MID at 700 Hz, TREBLE at 7 kHz, and PRESENCE at 11 kHz. Each control is adjustable +/- 32 steps.

14. BASS BST (BOOST)

Creates a 3 dB boost at 125 Hz. Toggles on or off with each button press.
### 15. SW1/2 LEV (Sweep 1/2 Level)

| 01: FG Lead 1  | Sweep1 Lvl: +12 |

These are the frequency mid-sweep levels, adjustable +/- 32 steps, equaling a boost/cut of 15dB.

### 16. SW1/2 FRQ (Sweep 1/2 Frequency)

| 01: FG Lead 1  | Sw1 Frq: 1.0 kHz |

The lower frequency (SW1) mid-sweep frequency control, adjusts from 90 Hz - 4.4 kHz. The higher frequency (SW2) mid-sweep frequency control, adjusting from 200 Hz - 9.5 kHz.

### 17. FG (Frank Gambale)

| F0: FG Lead 1  |

Press to access Frank’s 20 favorite patches. These are hardwired into the unit and cannot be overwritten. You can save these patches into normal memory to add your own little tweaks. These are also accessible as MIDI patch 100 - 119. To return to the user patches (01-99) press the PROGRAM button and scroll to the left or right to get to 01 or 99.

### 18. EFF LEV (Effects Level)

| 01: FG Lead 1  | Eff1/2 Level: 23 |

This adjusts the overall effects level of both EFF1 and EFF2. This does not affect the internal FX loop levels. Push the button again to access the external Effects Loop SEND ON/OFF control.

```
01: FG Lead 1  Ext. FX Loop: ON
```

then use the ADJUST knob to turn it ON/OFF. Press the EFF LEV button again to return to effects level.

### 19. EFF1 and EFF2

| Effect1: Delay Regen: 15 Time: 31 |

There are two effect positions available (EFF1 and EFF2). Each slot may have any one of the 4 effects (Reverb, Delay, Chorus, or Flange). The first push of one of these buttons allows you to select what effect is in that slot by using the ADJUST knob. Push the button again to move to the first parameter.

```
Effect1: Reverb Damp: 09 Decay: 18
```

Each push of the button scrolls through the parameters or effect selection.

```
Effect1: Flange Speed: 04 Depth: 21
```

### Typical Setups

![Typical Setups Diagram]

- **FS22 FOOTSWITCH**
- **TX100**
- **TO MIXER INPUT R**
- **TO MIXER INPUT L**
- **DCM600**
- **VE212 EXTENTION CAB**
- **VE212 EXTENTION CAB**
- **FX1**
- **TN100**
- **FX1**
- **UX200 COMBO**
- **MIDI FOOT-CONTROLLER**

### Footswitch FS22

Carvins standard FS22 footswitch can be used to switch patches UP and DOWN.

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All parameters have values 1 to 32.

Parameters for each effect are:

- **A**) Reverb - Damping (amount of Presence) and Decay.
- **B**) Delay - Regeneration (# of repeats) and Time.
- **C**) Chorus - Reverb and Depth.
- **D**) Flange - Speed and Depth.
- **E**) Off - Mutes only that effect, 1 or 2.

### REAR PANEL

#### 20. AC INPUT

The preamp will accept power in the range of 90-250 VAC 50-60 Hz.

#### 21. MIDI IN

This jack accepts all standard 5 pin DIN MIDI connectors. MIDI channel can be set to any of the 16 MIDI channels through the UTILITY menu. MIDI phantom power is supplied as +9V DC on pin 3 and ground on pin 1.

#### 22. MIDI THRU

This is a hard-wired MIDI THRU. All input at the MIDI IN jack is sent out the MIDI THRU.

#### 23. GND LIFT (GROUND LIFT)

Use this switch to help get rid of annoying ground loops in your system.

#### 24. OUTPUT1 L (Left) and R (Right) (To Amp)

Both Balanced XLR jack and Unbalanced 1/4" jack outputs are provided for flexibility in connecting up to your system.

#### 25. +4

This switch allows you to switch between levels of +4 dB and -15 dB. Push it in if you need the hotter +4 dB. Each switch applies to all the jacks in that section.

#### 26. PHONES

Stereo headphone jack is filtered to tame the harsh high end. Its level is also controlled by the OUTPUT2 sections +4 dB switch.

#### 27. OUTPUT2 CABINET VOICED (DIRECT OUT)

This section is similar to OUTPUT1 however the signal is filtered to simulate the response of a guitar speaker cabinet. This is great for going straight to a mixer for recording or live sound.

#### 28. RETURN L + R

Effects Loop return jacks are set up to return a stereo effect. If a Mono effect is used the jacks will sum the signal equally to both sides. If a return to only one side is desired a spare 1/4" plug can be plugged into the unused return jack to break the connection.

#### 29. SEND

The effects send signal is post Master Volume so any changes there must be accommodated at your effects unit. The SEND signal may also be turned off through the Effect level button.

#### 30. ALTERNATE INPUT

Great for plugging in your wireless rack-mount, or for keeping a clean look with no cables on the front of your system. This plug is turned off if the front panel INPUT is used.

#### 31. FOOTSWITCH FS22

Carvins standard FS22 footswitch can be used to switch patches UP and DOWN.

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Each push of the button scrolls through the parameters or effect selection.