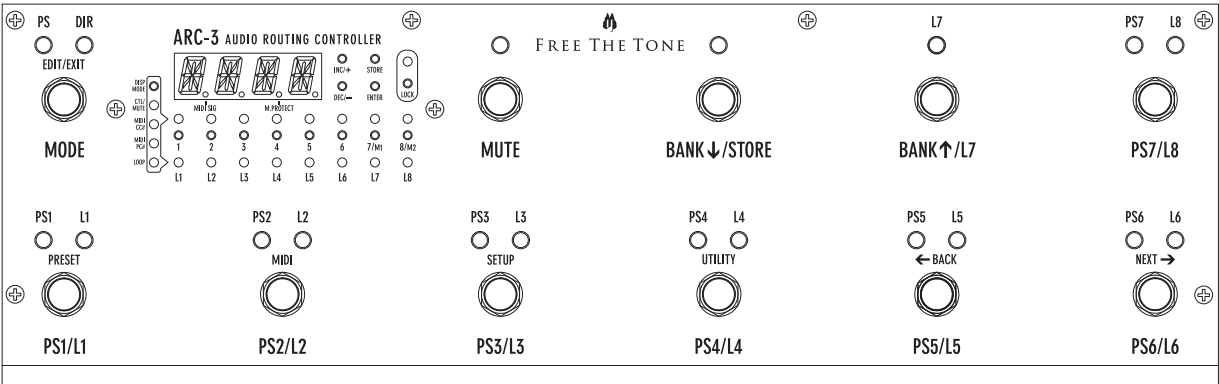


# ARC-3

## AUDIO ROUTING CONTROLLER

### OWNER'S MANUAL

Ver 1.0



Thank you for choosing a Free The Tone product. In order to take full advantage of the features and performance it provides, please read this owner's manual thoroughly, and keep it in a safe place for future reference.

Handling Precautions


- Never connect or disconnect plugs to/from the input/output terminals on the ARC-3 when the external device that drives speakers is powered. Doing so can cause noises and damage the speakers.
- Avoid applying excessive force to the footswitches, tact switches, and phone jacks on the ARC-3.
- If the unit malfunctions or behaves erratically, cease operation at once and contact your local dealer or Free The Tone directly.

Support/Service

Contact the following for support and/or repair service.  
e-mail address:  
[overseas@freethetone.com](mailto:overseas@freethetone.com)


SEFETY PRECAUTIONS

Precautions are identified by the two types of symbols below:




Caution

This symbol indicates that a risk of serious personal injury or material damage may result if precautions are ignored.




Warning

This symbol indicates that a risk of death or serious personal injury may result if precautions are ignored.



Caution

Do not use or store the unit in environments where it will be exposed to:  
  
Extreme temperatures (direct rays of the sun, heat sources such as radiators or stoves.)  
High humidity or moisture.  
Excessive dust or sand.  
Excessive vibration or shock.  
  
Whenever leaving the unit unattended for long periods, be sure to unplug the AC adapter from the power source to avoid creating a fire hazard.  
  
Take care not to drop the unit, and do not subject it to excessive pressure or weight.  
  
Do not press the switches on the unit with a bare foot, or unexpected injury may result.  
  
Do not use solvents (such as benzine, paint thinner) on the unit, since these may dull the finish or damage the surface.



Warning

Never try to disassemble, or modify the unit.  
  
Stop using the unit if you notice smoke or a strange odor coming from it and unplug the AC adapter from the outlet.  
  
Never try to repair the unit or replace parts unless so instructed by the user's manual. For other repair or parts replacement contact your local dealer or Free The Tone.  
  
Never unplug the the AC adapter while your hands are wet.  
  
Do not apply too much pressure or tension or place a heavy object on the power cord. Doing so may damage the power cord and create a danger of fire or electrical shock.  
  
Turn off the unit and unplug the AC adapter from the outlet and contact your local dealer or Free The Tone for repair in the case of any of the following:  

The power cord is damaged

Foregin objects (coins, pins, etc.) or liquid enter the unit.

The unit gets wet from rain or other liquid.

The unit is out of order.

  
Be careful of heat radiation from the unit.  
  
Never cover the AC adapter with cloth or other objects. Built-up heat can deform the case or cause a fire hazard.

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Main Features of ARC-3

Sound Quality

The Free The Tone ARC-3 is based on the know-how developed from many years of building custom products for top musicians. The ARC-3 has a built-in HTS (Holistic Tonal Solution) circuit to preserve the original characteristics of a bass, guitar, effects and amp. It manages everything at the input and output, including the send and return for effects, and the signal line.

Operability

- The distance between the foot switches is 71.5 mm (2.81") in the vertical direction and 80 mm (3.15") in the horizontal direction, and custom foot switches are used. These short stroke switches respond quickly in order to follow even fast operation.
- A Link function is provided making it possible to connect and operate two ARC-3s.
- A Mute Link function makes muting control possible from an external footswitch.
- A special panel is provided for changing settings or selecting presets. Operability is drastically improved by reducing the levels of edit menus as much as possible. This greatly reduces the amount of time spent editing.
- The ARC-3 has functions such as the preset copy, delete and swap, and bank copy and delete, which simplify operation.
- By switching the Display Mode, the MIDI program change numbers for each channel that is currently being sent can be checked at a glance.

Reliability

- The LED for each footswitch is covered by a lens to prevent sweat or other moisture from entering directly into the internal circuits. Also, a felt sheet is attached to the back of the display unit.
- High-strength molded plastic phone jacks are used to ensure safe and long term use.

Others

- A DI signal line, which is often required by bassists, was also taken into consideration. A terminal is provided which outputs the signal after it has passed through the HTS input circuit. The output line has a Mute switch that can be linked to the mute circuit. With this feature, the signal to both the DI output and to an amplifier can be muted simultaneously.
- A Universal AC adapter, which supports voltages of 100–240 VAC, is included.
- To prevent accidental operation of the control panel while playing, an AUTO LOCK function makes it possible to lock the operation buttons. The AUTO LOCK function engages automatically after 10 minutes of non-operation.

Main Features

Number of Effect Loops: 8

Number of Presets: 64 banks x 10 presets (total 640 presets)

Control Terminals: 6 (switchable Latch or Momentary)

Expression Pedal Terminal: 1

Number of MIDI Program Change Number Parallel Sends: 8 (CH1–CH8 fixed), when MIDI Tx Global is set to OFF

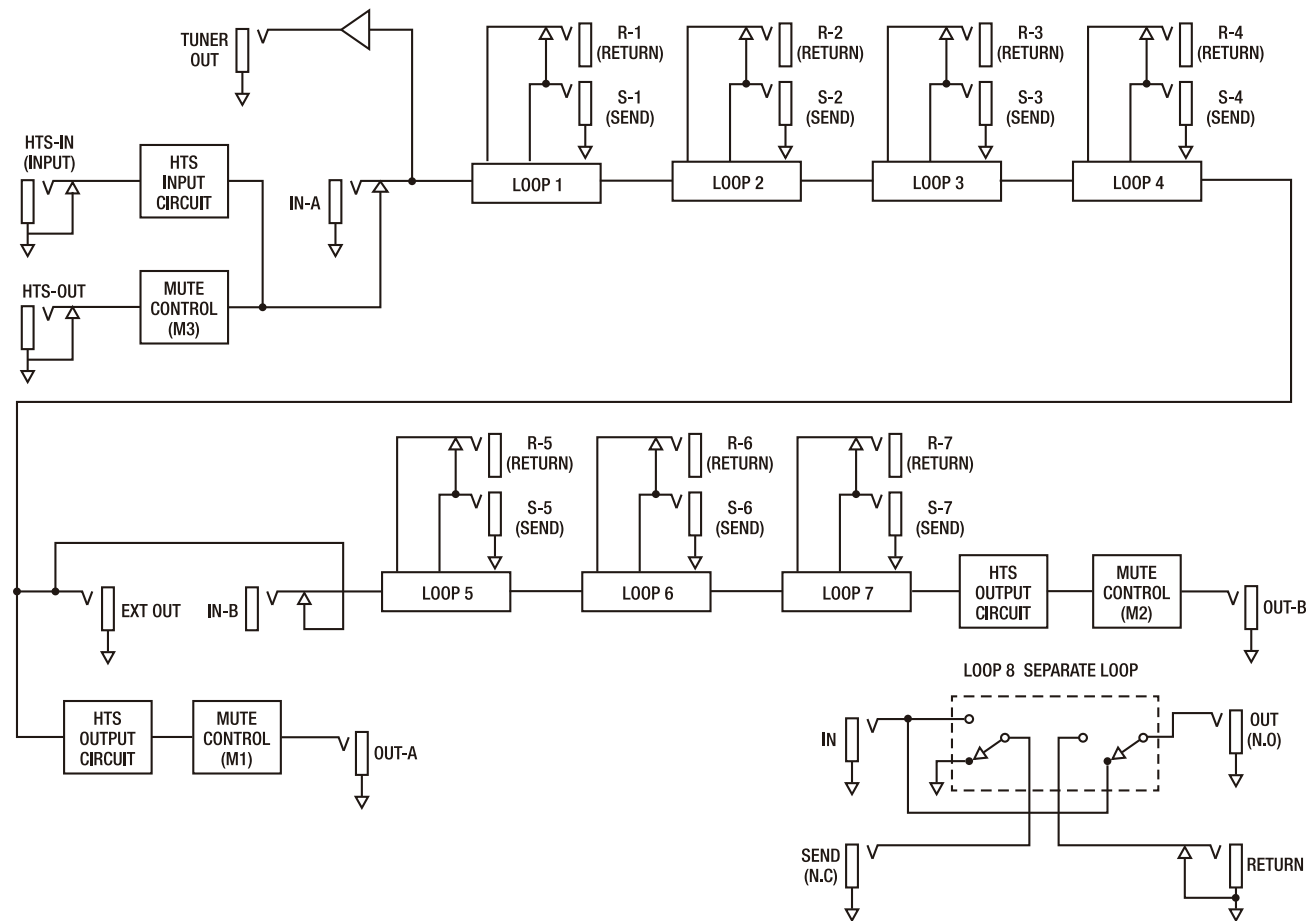
Number of MIDI Control Change Number Parallel Sends: 8

2

3

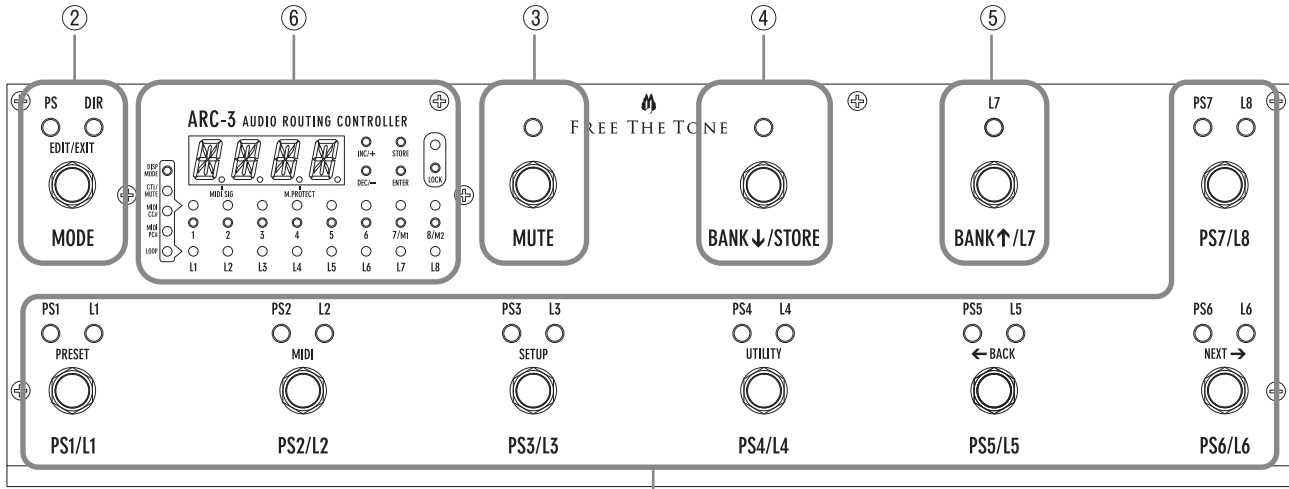
# 1

## SIGNAL BLOCK DIAGRAM



# 2

## FRONT PANEL



### ① PS/L switch

When in PS (Preset) mode this switch is used to recall the corresponding preset. When in DIR (Direct) mode pressing this switch turns on/off the corresponding effect loop.

### ② MODE switch

Used to switch the operation modes of the ARC-3. In PS (Preset) mode the **PS** indicator illuminates and pressing a **PS/L** switch recalls the corresponding preset. In DIR (Direct) mode the **DIR** indicator illuminates and pressing a **PS/L** switch turns on/off the corresponding effect loop.

Pressing the **MODE** switch for about three seconds puts the ARC-3 in Edit mode. Pressing it again exits from Edit mode to usual operation mode.

### ③ MUTE switch

Activates the mute circuit in the output to mute the signal. Mute positions (M1–M3) to be linked with this switch can be selected in Setup menu.

### ④ BANK ↓/STORE switch

Pressing this switch in Program mode decrements the bank number. Note that changing the bank number causes the display to flash but your change will not be confirmed until you press the **PS/L** switch. In Direct mode this switch used to store the setting.

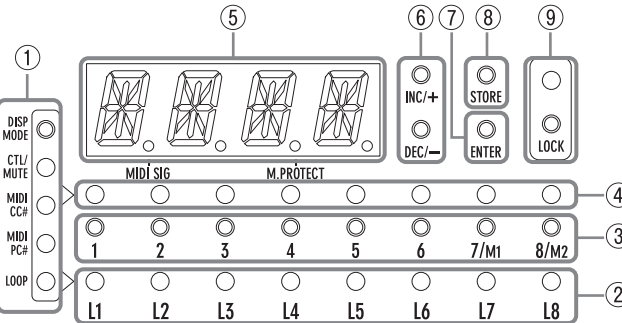
### ⑤ BANK ↑/L7 switch

Pressing this switch in Program mode increments the bank number. Note that changing the bank number causes the display to flash but your change will not be confirmed until you press the **PS/L** switch. In Direct mode this switch turns on/off the effect loop 7 (L7).

### ⑥ Control Panel

This panel indicates preset contents and the current preset number and is used to edit parameters in Edit mode.

## CONTROL PANEL



### ① DISP MODE (Display Mode) switch

Used to change operating modes of the LED displays or Select Switches (1–6, 7/M1, 8/M2).

### ② Effect Loop LED

Indicates the on/off status of each loop (L1–L8).

### ③ Select Switches

Used to edit or confirm the contents saved in presets. Note that the items to be selected vary according to the mode selected by the **DISP MODE** switch.

### ④ Multi-status LED

According to the selected mode, these LEDs indicate the status currently stored in the preset.

### ⑤ Display

The numeral shown in the left two positions is the bank number. The right two positions of the display indicate the currently selected preset number. The dot labeled "MIDI SIG" illuminates when MIDI signals are being sent or received.

### ⑥ INC/+ switch, DEC/- switch

Used when changing parameters.

### ⑦ ENTER switch

Used in Edit mode to select the item to be edited or to confirm the selection.

### ⑧ STORE switch

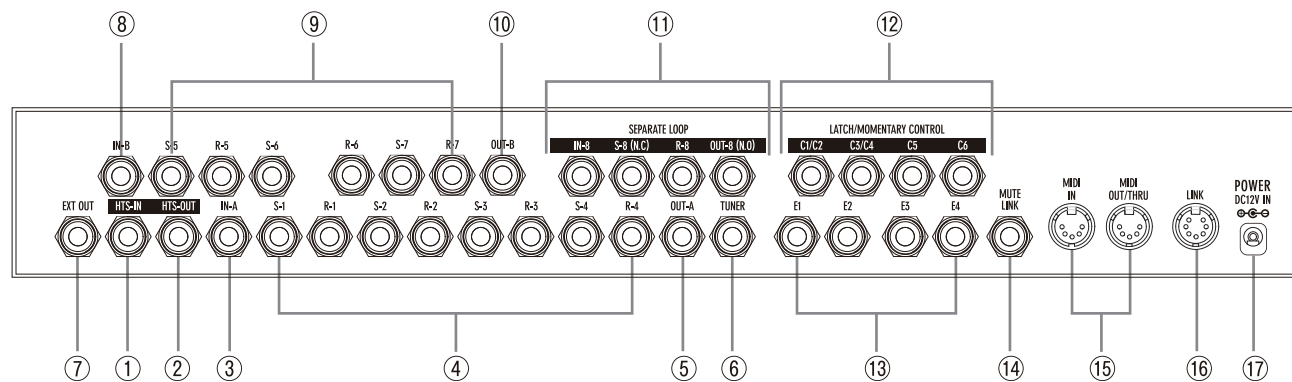
Used when storing your change to the setting in the preset.

### ⑨ LOCK switch

Used to lock the switches on the Control Panel, preventing unintentional tampering. Holding this switch for three seconds locks the switches and the LED illuminates. Pressing the switch for three seconds again unlocks the Control Panel and the **LOCK** LED goes off.

# 3

## REAR PANEL



### ① HTS-IN terminal

Input terminal to the ARC-3. The signal fed to this input goes through the ARC-3's HTS circuit and appears at **HTS-OUT** to be fed to effectors.

### ② HTS-OUT terminal

The signal fed to **HTS-IN** can be sent to other signal lines from this terminal. Bassists can use this terminal as a line to feed a D.I. box. Muting of this signal line can be linked with the **MUTE** switch.

### ③ IN-A terminal

This input terminal is located just after the HTS input circuit.

### ④ S-1-R-4 terminals

Effect loop terminals. **S1-S4** send signals to effectors. **R1-R4** receive signals from effectors.

### ⑤ OUT-A terminal

This terminal outputs the signal that passed through the effect loops 1-4. M1 mute circuit is located just in front of this terminal. Signals at **OUT-A** can be muted by pressing the **MUTE** switch or by setting "M1:ON" in the preset.

### ⑥ TUNER terminal

Used to feed an external tuner. The signal fed to **HTS-IN** or **IN-A** appears at **TUNER** even when the **MUTE** switch is turned on.

### ⑦ EXT OUT terminal

This terminal outputs the signal that passed through the effect loops 1-4. This output is not muted even if the **MUTE** switch is turned on.

### ⑧ IN-B terminal

This input terminal is located just in front of the effect loop 5.

### ⑨ S-5-R-7 terminals

Effect loop terminals. **S5-S7** send signals to effectors. **R5-R7** receive signals from effectors.

### ⑩ OUT-B terminal

This terminal outputs the signal that passed through the effect loops 5-7. M2 mute circuit is located just in front of this terminal. Signals at **OUT-B** can be muted by pressing the **MUTE** switch or by setting "M2:ON" in the preset.

### ⑪ SEPARATE LOOP terminals [IN-8, S-8(N.C), R-8, OUT-8(N.O)]

This is a separate loop that is electrically isolated from other loops. Use this loop when using an effector with which you cannot create intended tone if it is fed a low impedance signal (e.g., a fuzz pedal). **S-8(N.C)** can be used as a control terminal (normally closed) for amplifier channel switching. Note that the tip and ground in the jack are electrically connected when the loop 8 is off.

**OUT-8(N.O)** can be used as a control terminal (normally open). Note that the tip and ground in the jack are electrically connected when the loop 8 is on.

### ⑫ LATCH/MOMENTARY CONTROL terminals (C1-C6)

Latch or momentary control terminals for amplifier channel switching or on/off controlling of reverbs. Prepare a stereo plug wired for the external device to be controlled:

**Connection of C1/C2 & C3/C4 Control Terminals**

**Stereo plug's Tip:** C1 & C3

**Stereo plug's Ring:** C2 & C4

**Stereo plug's GND:** Common ground for C1/C2 and C3/C4

**Connection of C5 & C6 Control Terminals**

**Stereo plug's Tip:** Normally open terminal, i.e. there is no connection between the tip and ground when OFF. When ON, the tip and ground are electrically connected.

**Stereo plug's Ring:** Normally closed terminal, i.e. there is a connection between the tip and ground when OFF. When ON, the connection between the tip and ground is lost.

### ⑬ E1-E4 terminals (EXTERNAL SWITCH terminals)

Each terminal can have a function. This assignment can be changed in Edit mode. Default settings at factory shipment are as follows:

**E1:** PS8 (recalls preset no. 8)

**E2:** PS9 (recalls preset no. 9)

**E3:** PS10 (recalls preset no. 10)

**E4:** EXP PEDAL (plug an expression pedal and send VALUE via MIDI transmission)

### ⑭ MUTE LINK terminal

By connecting a momentary (unlatch) type footswitch to this terminal, the mute function can be controlled externally.

### ⑮ MIDI IN and MIDI OUT/THRU terminals

I/O terminals for MIDI signals. **MIDI IN** receives MIDI signals from an external MIDI device. **MIDI OUT/THRU** is used to feed MIDI signals to external MIDI devices.

When the operation mode of **MIDI OUT/THRU** has been set to "THRU", MIDI signals received at **MIDI IN** pass through the ARC-3 without any changes.

### ⑯ LINK terminal

Used to connect to another ARC-3 for linked operation. Use a special DIN 7-pin cross cable. For more detailed information on this dedicated cable please contact your local dealer or Free The Tone directly.

### ⑰ POWER DC12V IN receptacle

Used to connect the dedicated AC adapter. Be sure to use the AC adapter supplied with the ARC-3.

# 4

## BASIC OPERATION

### 4-1 Three Operation Modes

The ARC-3 has the following three operation modes:



#### • PS (Preset) Mode

For recalling presets. When in this mode, the **PS** LED above the **MODE** switch illuminates.

#### • DIR (Direct) Mode

In this mode each effect loop can be turned on/off by using the corresponding footswitch. When in this mode, the **DIR** LED above the **MODE** switch illuminates.

#### • Edit Mode

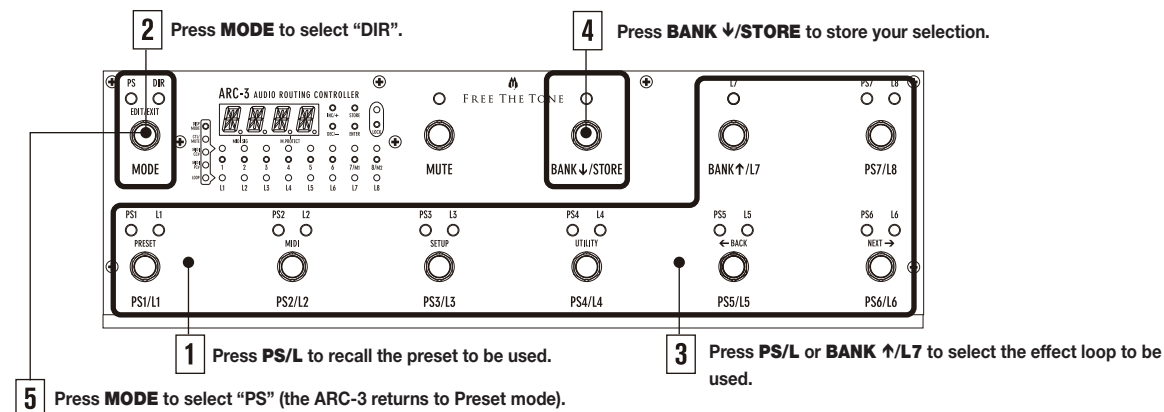
Used when making detailed setup of the ARC-3. Hold down the **MODE** switch for three seconds to put the ARC-3 in Edit mode.

### 4-2 How to Edit Presets

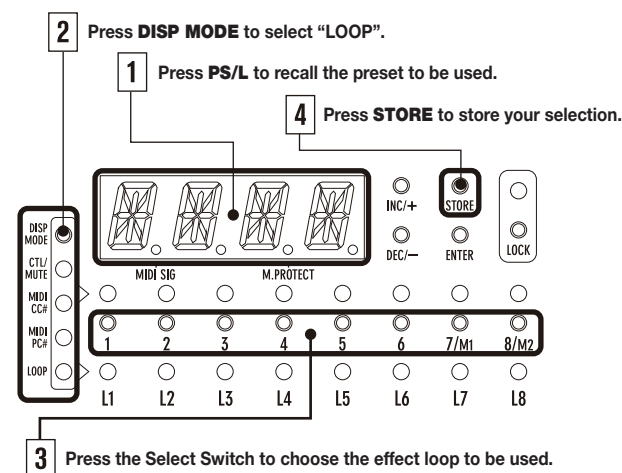
Presets in the ARC-3 can be edited very easily with the Control Panel only. When you change any contents of a preset, the display illuminates the dot LED at the right side of its lowest position. To

store the setting, press the **STORE** switch. Your changes are not saved if you recall another preset without pressing the **STORE** switch.

#### • How to store Effect Loops (L1-L8) in Presets: 1



#### • How to store Effect Loops (L1-L8) in Presets: 2



#### • How to store Control terminals (C1-C6) and signal line mutes (M1, M2) in Presets

- 1 Press **PS/L** to recall the preset to be used.
- 2 Press **DISP MODE** to select "CTL/MUTE".
- 3 Press the Select Switch to choose the control terminal (C1-C6) and signal line mute (M1 or M2) to be used.
- 4 Press **STORE** to store your selection.

#### • How to store MIDI CC# (control change number) sends in Presets

- 1 Press **PS/L** to recall the preset to be used.
- 2 Press **DISP MODE** to select "MIDI CC#".
- 3 Press the Select Switch to choose the MIDI CC# to be used.
- 4 Press **STORE** to store your selection.

NOTE: Control change numbers to be assigned to the Select Switches 1-8 are set in Edit mode "MIDI-CSW CC#" (refer p.10).

#### • How to store MIDI PC# (program change number) sends in Presets

(1) To simply control a MIDI device by using one MIDI channel (selected from CH1-CH16) (when MIDI Tx Global is turned ON)

- 1 Press **PS/L** to recall the preset to be used.
- 2 Press **DISP MODE** to select "MIDI PC#".
- 3 Press **INC/+** or **DEC/-** to set the MIDI program change number to be sent. Or select "OFF" if you do not want to send any program change number.
- 4 Press **STORE** to store your selection.

#### (2) To control multiple MIDI devices by using eight MIDI channels (CH1-CH8 fixed) (when MIDI Tx Global is turned OFF)

- 1 Press **PS/L** to recall the preset to be used.
- 2 Press **DISP MODE** to select "MIDI PC#".
- 3 Press the Select Switch to which the desired MIDI channel has been assigned.
- 4 Press **INC/+** or **DEC/-** to set the MIDI program change number you want to send. Or select "OFF" if you do not want to send any program change number.
- 5 Press **STORE** to store your selection.



4-3 Edit Mode

Detailed setups of the ARC-3 are done in Edit mode. Holding down the **MODE** switch for three seconds puts the ARC-3 in Edit mode and the display shows "MENU". Press one of the **PS/L** switches to select the desired menu item. The following menu items are assigned to the **PS/L** switches:

- PS1/L1: PRESET
- PS2/L2: MIDI
- PS3/L3: SETUP
- PS4/L4: UTILITY

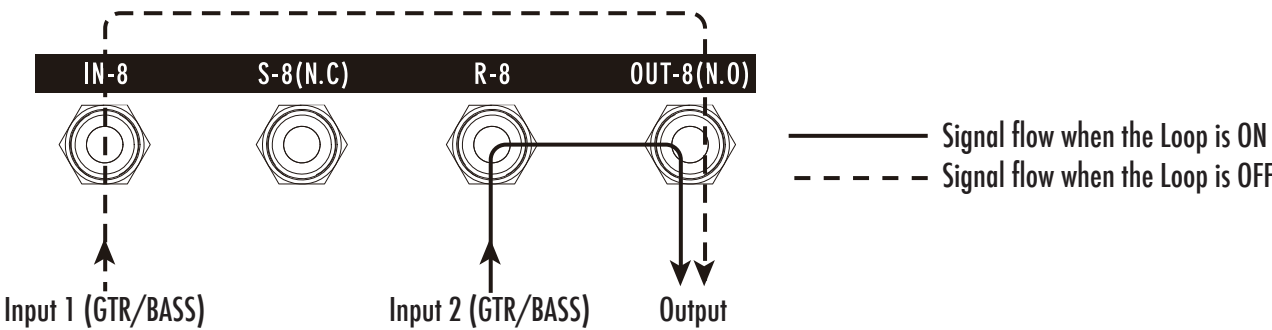
When you select the menu item by pressing the corresponding **PS/L** switch, the display shows the page 1 of the screen assigned to that menu. You can also recall the desired page by pressing the Select Switch in the Control Panel.

To exit from Edit mode to usual operation mode, press the **MODE** switch.

NOTE: In Edit mode, your changes are confirmed when the **ENTER** switch in the Control Panel is pressed. You do not have to press the **STORE** switch.

3) To use as an input selector

The separate loop can be used as an input selector to choose one of the two inputs. By turning on the loop, input 2 signal connected to the Return jack appears at the Output (OUT-8) jack. By turning off the loop, input 1 signal connected to the Input (IN-8) jack appears at the Output (OUT-8) jack. Leave the Send (S-8) jack unconnected.



6  
EDIT MENU

Detailed setup of the ARC-3 is done in Edit mode. The following tables explain configurations available in Edit mode and how to set them. To keep this manual simple and easy to understand, some descriptions for setup procedures are simplified.

The following terms are used in the explanations for setup procedures.

- **ENTER:** Press the **ENTER** switch located on the Control Panel to confirm your selection.
- **Set:** Press the **INC/+** or **DEC/-** switch on the Control Panel until the desired value or item is shown in the display.
- **Parameter:** Values or items that can be changed by users.
- **Default:** Parameter settings configured before shipment from factory.

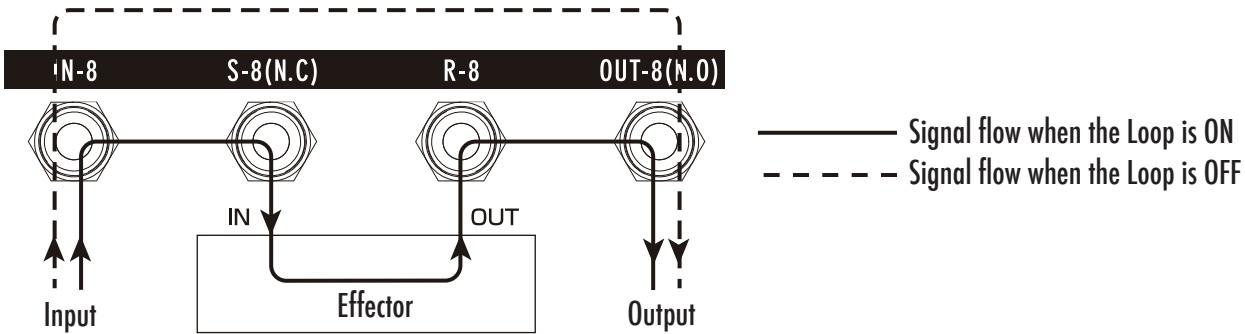
PRESET (PS1/L1 footswitch)

Select Switch	Menu	How to Set
1	<b>PRESET COPY</b> This item is used to copy the contents of a preset to another preset.	[PSCP] on → ENTER → FROM [PRESET NUMBER] flashes → Set → ENTER → TO [PRESET NUMBER] flashes → Set → ENTER  Parameter: [00-01]–[63-01] (default: 00-01)
2	<b>BANK COPY</b> This item is used to copy the contents of a bank to another bank.	[BKCP] on → ENTER → FROM [BANK NUMBER] flashes → Set → ENTER → TO [BANK NUMBER] flashes → Set → ENTER  Parameter: [00]–[63] (default: 00)
3	<b>PRESET DELETE</b> This item is used to delete the contents of the specified preset.	[PSDL] on → ENTER → [PRESET NUMBER] flashes → Set → ENTER → [DONE]  Parameter: [00-01]–[63-01] (default: 00-01)
4	<b>BANK DELETE</b> This item is used to delete the contents of the specified bank.	[BKDL] on → ENTER → [BANK NUMBER] flashes → Set → ENTER → [DONE]  Parameter: [00]–[63] (default: 00)
5	<b>SWAP</b> This item is used to swap the contents of two presets.	[SWAP] on → ENTER → [PRESET NUMBER] flashes → Set → ENTER → [AND] → [PRESET NUMBER] flashes → Set → ENTER → [DONE]

5  
HOW TO USE SEPARATE LOOP

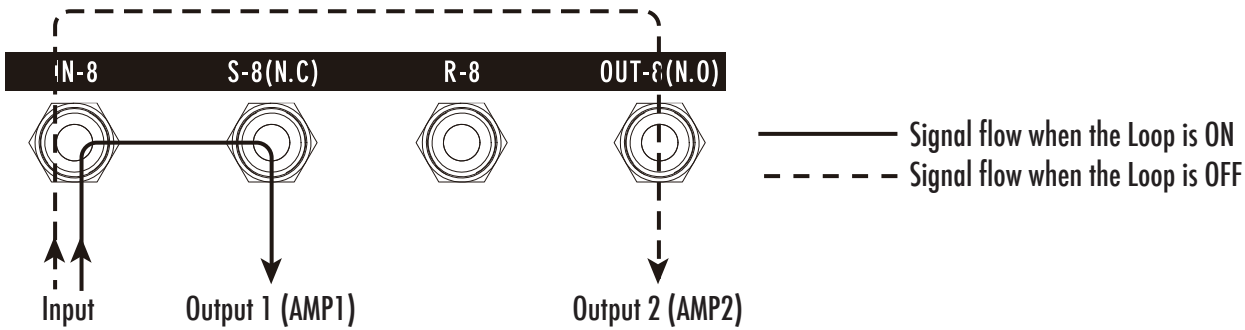
1) To use as an effect loop

If the seven loops (L1–L7) are not enough for your application, the separate loop can be used as an additional effect loop. Connect your signal to the Input (IN-8) jack and connect the Send (S-8) jack to your effector's input. Connect the effector's output to the Return (R-8) jack, then the Output (OUT-8) jack to the downstream device.



2) To use as an output selector

The separate loop can be used as an output selector to choose one of the two outputs. If the loop is turned on and output 1 is selected, output 2 is muted to prevent crosstalk or noises. Conversely if the loop is turned off and output 2 is selected, output 1 is muted. Feed to the Input (IN-8) jack and connect to the input of your amplifier, etc. from the Send (S-8) jack. Leave the Return (R-8) jack unconnected. Connect the Output (OUT-8) jack to the input of another amplifier, etc.



MIDI (PS2/L2 footswitch)

Select Switch	Menu	How to Set
1	<b>MIDI Rx</b> This item is used to set the MIDI receive channel.	[RXCH] on → ENTER → [OMNI] flashes → Set → ENTER  Parameter: CH01–CH16, OMNI, OFF (default: OMNI)
2	<b>MIDI Tx Global</b> This item is used to set to send one program change number for one preset by limiting to use one MIDI transmit channel only. If set to OFF, eight MIDI channels are available.	[TXGB] on → ENTER → [ON] flashes → Set → ENTER  Parameter: ON, OFF (default: ON)
3	<b>MIDI Tx</b> This item is used to set the MIDI transmit channel.	[TXCH] on → ENTER → [CH01] flashes → Set → ENTER  Parameter: CH01–CH16, OFF (default: CH01)
4	<b>CSW CC#</b> This item is used to set the MIDI control change number to be sent. Up to 8 control switches (CSW1–CSW8) can be set. MIDI control change number and MIDI channel can be set to each CSW (control switch).	[CSCC] on → ENTER → [CSW1] on → Set (param1) → ENTER → [OFF] flashes → Set (param2) → ENTER → [CH01] flashes → Set (param3) → ENTER  Parameter 1: CSW1–CSW8 Parameter 2: 000–120, OFF (default: OFF) Parameter 3: CH1–CH16 (default: CH01)
5	<b>CSW SWITCH TYPE</b> This item sets the operation type (LATCH or MOMENTARY) of the CSW (control switch) specified by item 4 above.	[CSTP] on → ENTER → [CSW1] flashes → Set (param1) → ENTER → [LTCH] flashes → Set (param2) → ENTER  Parameter 1: CSW1–CSW8 Parameter 2: LATCH, MOMENTARY (default: LATCH)
6	<b>Control Change Number</b> This item is used to set the control change number assigned to each function.	* This menu is used to edit CC# assigned to each function. [CCNM] on → ENTER → [L1] on → Set (param1) → [OFF] flashes → Set (param2) → ENTER  Parameter 1: LOOP1 [L1]–LOOP8 [L8] MUTE [MUTE] MODE [MODE] EXP PEDAL [EXP] CTL1 [C1]–CTL6 [C6] MUTE1 [MT1], MUTE2 [MT2]  Parameter 2: 000–120, OFF (default: OFF) Items with initial settings EXP PEDAL [EXP] 000–0120, OFF (defalut: 112) CTL1 [C1] 000–120, OFF (default: 113) CTL2 [C2] 000–120, OFF (default: 114) CTL3 [C3] 000–120, OFF (default: 115) CTL4 [C1] 000–120, OFF (default: 116) CTL5 [C1] 000–120, OFF (default: 117) CTL6 [C1] 000–120, OFF (default: 118) MUTE1 [MT1] 000–120, OFF (default: 119) MUTE2 [MT2] 000–120, OFF (default: 120)
7	<b>MIDI OUT/THRU</b> This item is used to set the operation mode of the <b>MIDI OUT/THRU</b> terminal.	[O/TH] on → ENTER → [OUT] flashes → Set → ENTER  Parameter: OUT, THRU (default: OUT)

SETUP (PS3/L3 footswitch)

Select Switch	Menu	How to Set
1	<b>LINK MODE</b> This item is used to select the operation mode for two linked ARC-3s. When in Link mode, the preset number for the two units is always synchronized together but the contents of the presets are set individually. When in Master/Slave mode, the settings and presets on the Master unit have priority for use and the Slave unit acts as a remote controller. CAUTION: When set to Master/Slave mode, be sure to connect to the terminals (MIDI IN/OUT, EXP PEDAL, etc.) on the Master unit.	[LKMD] on → ENTER → [LINK] flashes → Set → ENTER  Parameter: LINK, MASTER, SLAVE (default: LINK)
2	<b>External Foot Switch Assignment</b> This item is used to assign functions to the E1–E4 terminals on the rear panel.	[EXFS] on → ENTER → [E1] on → Set (param1) → ENTER → [PS8 (for E1)] flashes → Set (param2) → ENTER  Param1    Param2 E1:        PS8 (default), L1–8, CTL1–6, MUTE1, MUTE2, CSW1–8 E2:        PS9 (default), L1–8, CTL1–6, MUTE1, MUTE2, CSW1–8 E3:        PS10 (default) L1–8, CTL1–6, MUTE1, MUTE2, CSW1–8 E4:        EXP PEDAL (default), L1–8, CTL1–6, MUTE1, MUTE2, CSW1–8
3	<b>Control Type</b> This item is used to select the operation type for CONTROL 1–6 from LATCH and MOMENTARY.	[CTTP] on → ENTER → [CTL1] on → Set (param1) → ENTER → [LATCH] flashes → Set (param2) → ENTER  Parameter 1: CTL1 [C1]–CTL6 [C6] Parameter 2: LATCH, MOMENTARY (default: LATCH)
4	<b>MUTE MODE</b> This item is used to set the operation mode for the <b>MUTE</b> switch. When set to AUTO, pressing a preset switch automatically clears the mute status. When set to MANUAL, the mute status is cleared by pressing the <b>MUTE</b> switch again.	[MTMD] on → ENTER → [AUTO] flashes → Set → ENTER  Parameter: AUTO, MANUAL (default: AUTO)
5	<b>MUTE POSITION</b> This item is used to select the mute circuit (M1–M3) activated by turning on the <b>MUTE</b> switch.	[MTMD] on → ENTER → M1 → Set (param1) → ENTER → [ON (for MT1)] flashes → Set (param2) → ENTER  Parameter 1: MT1–MT3 Parameter 2: ON, OFF (default for MT1 & MT2: ON, default for MT3: OFF)
6	<b>MUTE SW configuration</b> This item is used to enable or disable the <b>MUTE</b> switch.	[MTFS] on → ENTER → [ON] flashes → Set → ENTER  Parameter: ON, OFF (default: ON)
7	<b>EXP Pedal Calibration</b> This item is used to calibrate your expression pedal. Please be sure to use an expression pedal using a 10 kΩ variable resistor.	[CALB] on → ENTER → [Hi] flashes → Set EXP pedal to max. → ENTER → [LOW] flashes → Set EXP pedal to min. → ENTER → [DONE]
8	<b>Starting number</b> Not all of the MIDI devices use the same starting number for MIDI program change number. The ARC-3 can set the starting number in accordance with the device to be connected.	[STNM] on → ENTER → [001] flashes → Set → ENTER  Parameter: 1–128 [001], 0–127 [000] (default: 1–128)

UTILITY (PS4/L4 footswitch)

Select Switch	Menu	How to Set
1	<b>AUTO LOCK</b> This item is used to set the Lock function for the front panel. If the Auto Lock function is turned on and the Control Panel is left untouched for about ten minutes, the front panel switches are automatically locked out.	[LOCK] on → ENTER → [OFF] flashes → Set → ENTER  Parameter: ON, OFF (default: OFF)
2	<b>Memory Protect</b> This item is used to protect the settings stored in the ARC-3 from tampering. The <b>M.PROTECT</b> dot in the display illuminates when the protection is turned on.	[PROT] on → ENTER → [OFF] flashes → Set → ENTER  Parameter: OFF, ON (default: OFF)
3	<b>LED BRIGHTNESS</b> This item is used to adjust LED brightness. If LED is too dim during outdoor performance, set this parameter to "1" (bright).	[BRIT] on → ENTER → [1] flashes → Set → ENTER  Parameter: 1 = bright, 2 = standard (default: 2)
4	<b>PGM DUMP/LOAD</b> This item is used to transfer the data saved in one ARC-3 to another ARC-3 or vice versa.	Procedure for MIDI LOAD (receive) [DUMP] on → ENTER → [RECV] flashes → ENTER → [YES] flashes → ENTER (wait for data to be sent) → [DONE] or [ERR] → [DUMP] on  Procedure for MIDI DUMP (send) [DUMP] on → ENTER → Set to flash [SEND] → ENTER → [YES] flashes → ENTER → [01-63 in order] → [DUMP] on  Parameter: RECV, SEND
5	<b>Initialize</b> This returns the ARC-3 to its factory shipment status.	[INIT] on → ENTER → [YES] flashes → ENTER → [DONE] on → [INIT] on

# 7

## ARC-3'S BANK PRESETS & MIDI PROGRAM CHANGE NUMBERS

7-1 MIDI program change numbers received at MIDI IN terminal in Bank mode

BANK	PRESET 1	PRESET 2	PRESET 3	PRESET 4	PRESET 5	PRESET 6	PRESET 7	PRESET 8	PRESET 9	PRESET 0/10
00	001	002	003	004	005	006	007	008	009	010
01	011	012	013	014	015	016	017	018	019	020
02	021	022	023	024	025	026	027	028	029	030
03	031	032	033	034	035	036	037	038	039	040
04	041	042	043	044	045	046	047	048	049	050
05	051	052	053	054	055	056	057	058	059	060
06	061	062	063	064	065	066	067	068	069	070
07	071	072	073	074	075	076	077	078	079	080
08	081	082	083	084	085	086	087	088	089	090
09	091	092	093	094	095	096	097	098	099	100
10	101	102	103	104	105	106	107	108	109	110
11	111	112	113	114	115	116	117	118	119	120
12	121	122	123	124	125	126	127	128	--	---
13~63	---	---	---	---	---	---	---	--	--	---

7-2 MIDI program change numbers for each preset sent from ARC-3 (initial settings for MIDI Tx Global: ON)

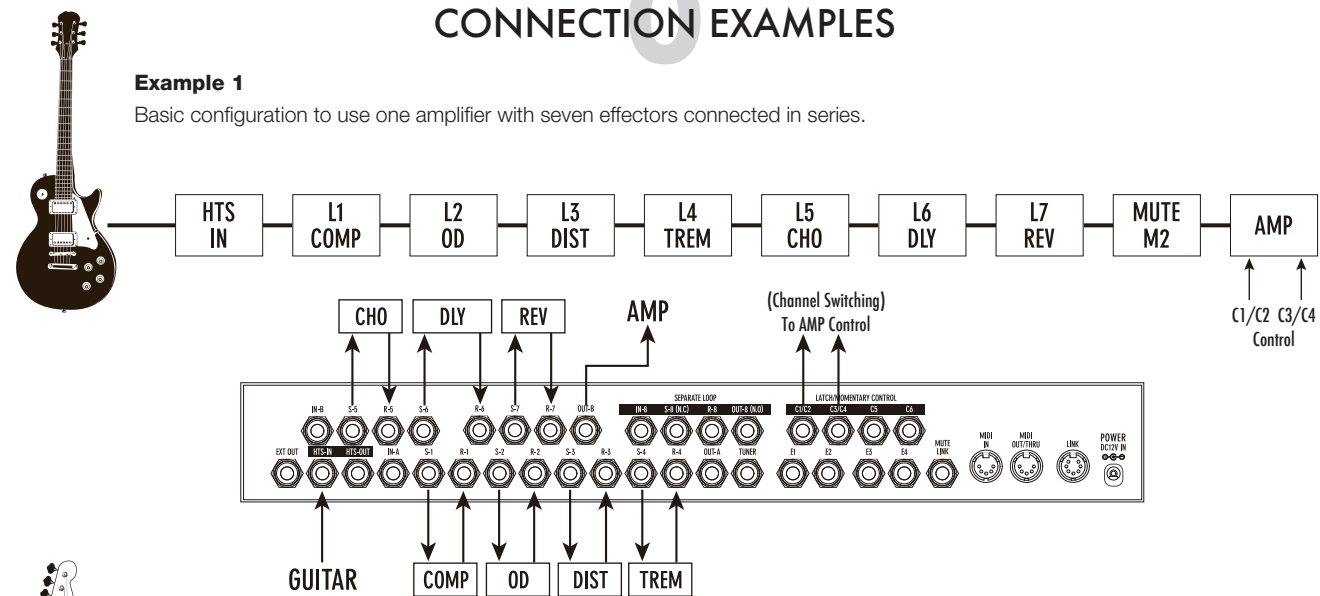
BANK	PRESET 1	PRESET 2	PRESET 3	PRESET 4	PRESET 5	PRESET 6	PRESET 7	PRESET 8	PRESET 9	PRESET 0/10
00	001	002	003	004	005	006	007	008	009	010
01	011	012	013	014	015	016	017	018	019	020
02	021	022	023	024	025	026	027	028	029	030
03	031	032	033	034	035	036	037	038	039	040
04	041	042	043	044	045	046	047	048	049	050
05	051	052	053	054	055	056	057	058	059	060
06	061	062	063	064	065	066	067	068	069	070
07	071	072	073	074	075	076	077	078	079	080
08	081	082	083	084	085	086	087	088	089	090
09	091	092	093	094	095	096	097	098	099	100
10	101	102	103	104	105	106	107	108	109	110
11	111	112	113	114	115	116	117	118	119	120
12	121	122	123	124	125	126	127	128	OFF	OFF
13~63	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF

# 8

## CONNECTION EXAMPLES

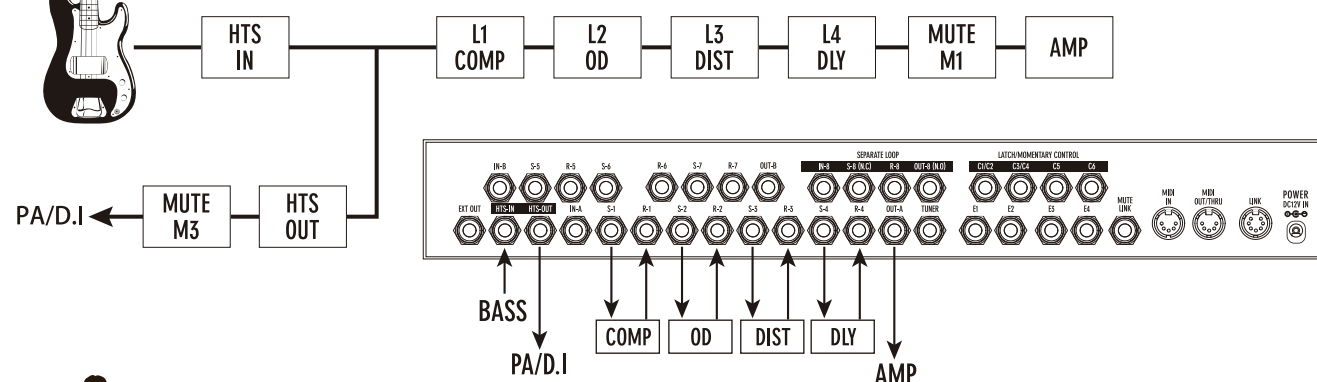
### Example 1

Basic configuration to use one amplifier with seven effectors connected in series.



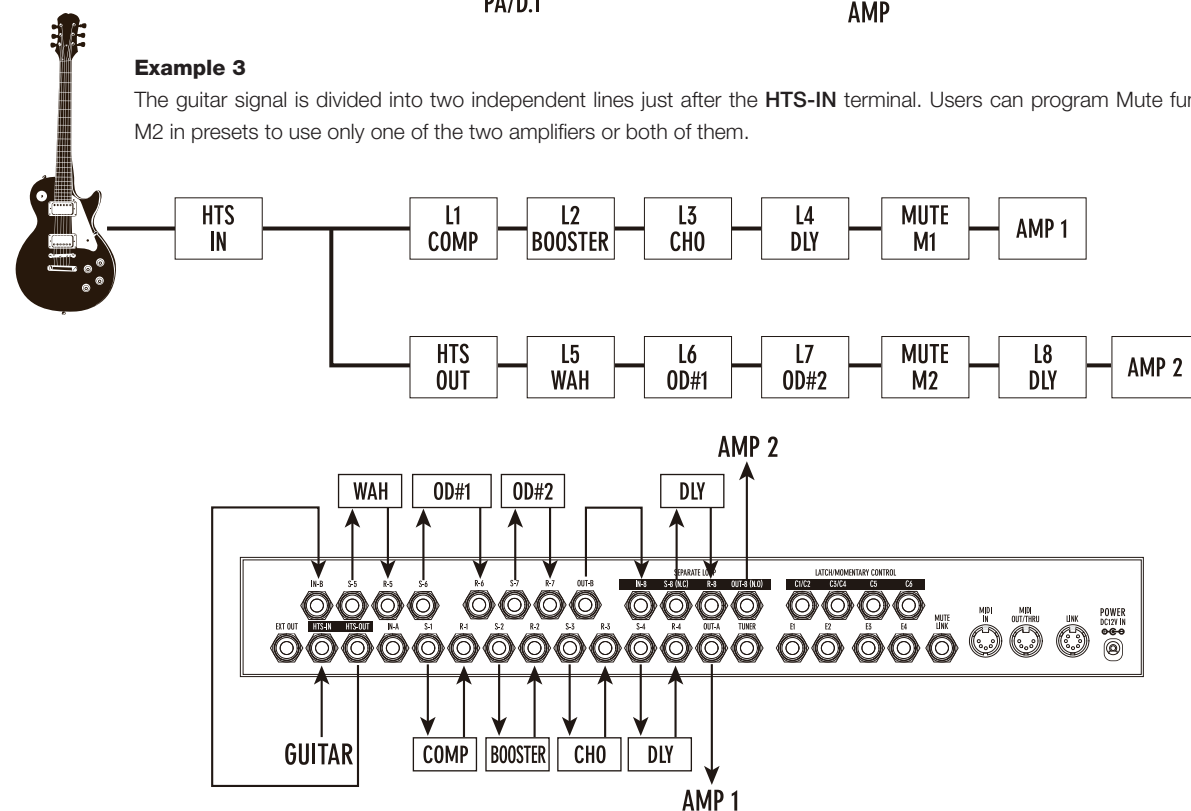
### Example 2

A connection example for bass. The signal is sent to a D.I. box from the HTS-OUT terminal. The signal also passes the four effectors connected in series and is fed to the amplifier. To mute the signal from the HTS-OUT terminal, put the ARC-3 in Edit mode and turn on M3 in "SETUP-MUTE POSITION" (refer p. 11).



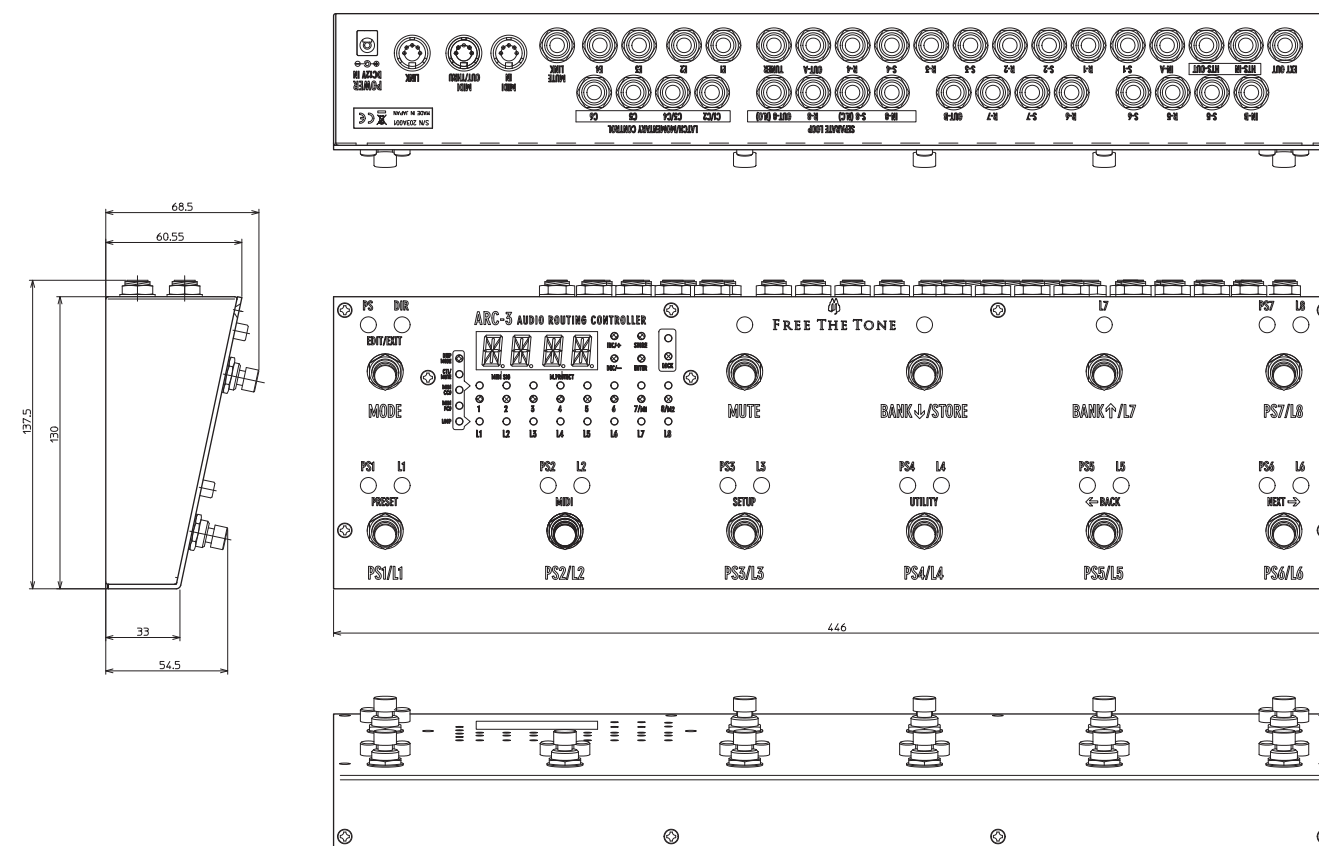
### Example 3

The guitar signal is divided into two independent lines just after the HTS-IN terminal. Users can program Mute functions M1 and M2 in presets to use only one of the two amplifiers or both of them.



# 9

## SPECIFICATIONS



### Specifications

- **Input Impedance:** 1 M $\Omega$  (HTS-IN)
- **Output Impedance:** Less than 200 $\Omega$  (HTS-OUT, OUT-A, OUT-B)
- **Power Supply:** Dedicated AC adapter  
For USA: FA-1220D-JA  
For UK: FA-1220D-UK  
For Europe: FA-1220D-EU
- **Power Consumption:** 12 VDC, approx. 700 mA (Max.)
- **Dimensions (W x H x D):** 446 x 69 x 138 mm, 17.56 x 2.72 x 5.43 inches (incl. produberances such as footswitches, jacks, etc.)
- **Weight:** approx. 2,030 g, 71.61 oz (excl. AC adapter)
- **Accessories:** Owner's Manual, AC Adapter for ARC-3, Adhesive Rubber Foot (4 pcs)

Specifications and appearance subject to change without notice.