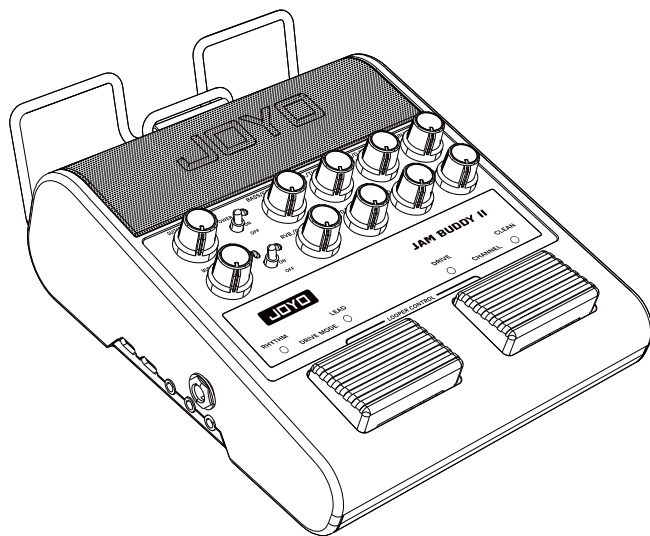


# JAM BUDDY II

## 用户使用说明



**JOYO**

## 重要的安全说明



**注意:** 机内无用户可用备件! 为了防止触电, 切勿自行拆开机盖! 必要时需由专业人士维修!

**警告:** 为防止发生火灾或触电危险, 本机切勿受雨淋或受潮!



等边三角形中带有闪电型箭头, 该符号用来告诫用户---机内具有危险电压的非绝缘部分, 易造成电击的危险。



等边三角形中带有感叹号, 该符号用来提醒用户---机器附件中有重要的操作和保养说明, 请查阅使用说明书。



该符号警告用户---禁止推移在最顶端装放有机器而又无保护措施的可移动机架, 谨防最顶端的机器跌落给您带来不必要的人身伤害。为保护您的利益, 请使用由该制造厂商所生产或推荐的可移动机架、三角架、脚架, 固定架、控制台等配件。

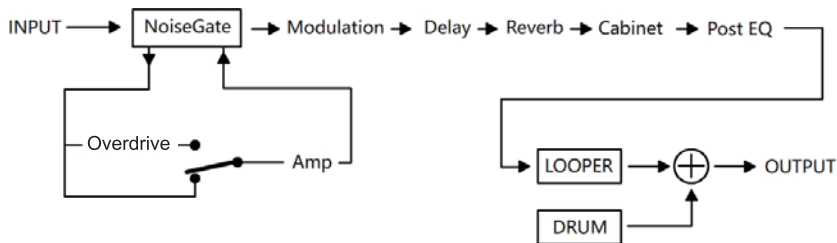


无论本机是在充电或是连接电源适配器使用时, 机器正处于与电网电源连接的状态, 为防止发生火灾或触电危险, 切勿自行拆开机盖进行触碰和维修!

## 详细的安全说明

- 为了您的安全和能更快地熟练使用、保养本产品,使用前请先详细阅读并理解本说明书中所有的安全与使用说明,请保管好本说明书。
- 严禁将本机浸入海水或水中或潮湿的地方使用,如浴缸、厕所、洗衣桶、厨房洗菜盆、游泳池旁,防止液体渗进机内,导致机器发生故障无法正常工作或者发生用电危险。避免在周围充满易燃易爆气体的地方使用,如加油站或粉尘场所。
- 本机内置有锂电池组,请不要在热高温源旁(如火、加热器、炙热的阳光下或很热的汽车中等)充电、使用和置留,否则可能会引起电池过热、起火或功能失效、寿命减短。
- 如遇本机内置锂电池损坏,请勿擅自采购并更换:  
本机内置电池已通过严格的安规测试,擅自更换其他途径获得的电池可能会因其自身质量问题导致本产品无法正常工作,或发生爆炸引起火灾。请联系您的零售商更换电池。
- 请勿用酒精等化学溶剂物品清洁本机器,避免造成机器表面的损伤,有清洁必要时可用干抹布擦拭。
- 无论出于哪种原因,请勿自行拆开机壳,如遇产品故障请联系专业维修人员,或联系您的零售商进行维修。
- 请不要强行拉扯电源线以及其他机器组件,避免电源线以及插头损坏。
- 若是在打雷或闪电时,较长时间不使用本机器,务必关闭本机电源开关并拔出电源插头。
- 请勿碰撞、抛掷、振动本机,以免损坏本机。
- 如果设备长期闲置不用,应放置于阴凉干燥的环境中并确保电池处于充满状态,每隔两个月复充一次电,否则电池将老化。
- 如本机提示电量低,请及时为本机充电,过度放电以及内部电池长期低电会导致不可逆的电池容量损失,导致电池损坏。

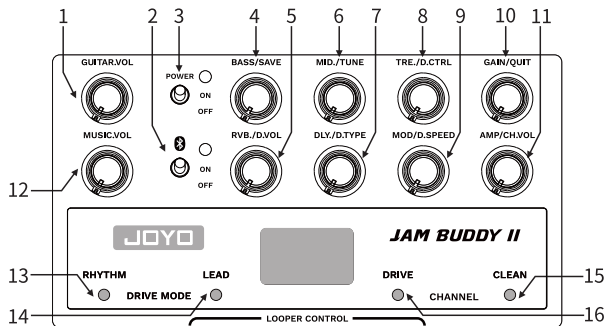
## 效果链框图

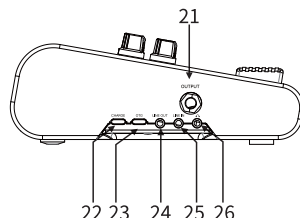
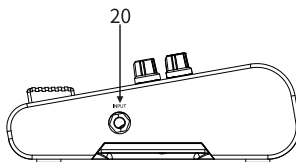
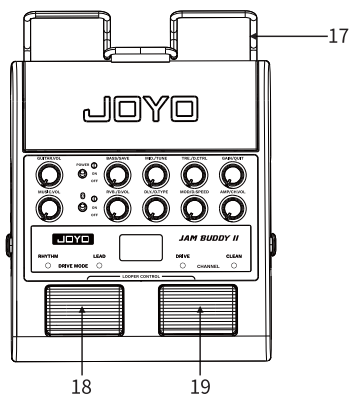


注:噪声门(NoiseGate)参数已预先设定好,此模块没有可供调节的参数。

注:过载(Overdrive)模块参数已预先设定好,此模块没有可供调节的参数。

## 操作面板图





1. GUITAR.VOL 旋钮
2. 蓝牙开关
3. 电源开关
4. BASS/SAVE 旋钮
5. RVB./D.VOL 旋钮
6. MID./TUNE 旋钮
7. DLY./D.TYPE 旋钮
8. TRE./D.CTRL 旋钮
9. MOD/D.SPEED 旋钮

10. GAIN/QUIT 旋钮
11. AMP/CH.VOL 旋钮
12. MUSIC.VOL 旋钮
13. RHYTHM 指示灯
14. LEAD 指示灯
15. CLEAN 指示灯
16. DRIVE 指示灯
17. 支架
18. 过载通道模式选择踏板

19. 通道切换踏板
20. 吉他输入接口 (INPUT)
21. 吉他输出接口
22. 充电接口
23. USB接口 (OTG)
24. LINE OUT 接口
25. LINE IN 接口
26. 耳机输出接口

## 操作说明

### 1. 使用调音表

您可通过按下MID./TUNE旋钮来打开或关闭调音功能,开启后,屏幕显示为调音表。

注意:调音功能开启后,所有已启用的效果、LOOPER以及鼓机都将被关闭。

注意:调音功能开启后,JAM BUDDY II不再响应关闭调音表以外的任何操作,直到调音表功能退出。

### 2. 选择箱头模型

在演奏模式下(屏幕显示为某个箱头图标),按下AMP/CH.VOL旋钮,即可进入箱头模型选择界面,此时屏幕顶部会显示“Selecting AMP...”字样,此时可以通过旋转AMP/CH.VOL旋钮来选择所需的模型。下表为全部模型及其适应风格的说明:

|   |                 |                                                                                                                     |
|---|-----------------|---------------------------------------------------------------------------------------------------------------------|
|   |                 |                                                                                                                     |
| 1 | 65 Black Nor    | 低失真CLEAN音色,适合演奏JAZZ,BLUES等不需要明亮高频的CLEAN,三段EQ对音色、增益都有影响,试试将三段EQ、GAIN都开到最大,可以得到稍带过载,但很圆润的CLEAN音色,注意:需要适当降低通道音量。       |
| 2 | 65 Black Nor OD | 过载音色,过载失真度比较低,非常适合演奏JAZZ/BLUES中需要轻度过载的部分,三段EQ对音色、增益都有影响,试试将三段EQ、GAIN都开到最大,来获得比较经典的中频十足的轻度过载音色,注意:需要适当降低通道音量。        |
| 3 | 65 Black Vib    | 低失真,高频更明亮的CLEAN音色,适合演奏JAZZ、BLUES、FUNK、POP等风格,三段EQ对音色、增益都有影响,试试将三段EQ、GAIN都开到最大,可以得到中等增益过载,中频十足的音箱过载音色,注意:需要适当降低通道音量。 |
| 4 | 65 Black Vib OD | 模拟过载效果器接音箱得到的过载音色,更偏向于突出过载效果器本身的过载音色,风格适应性非常广。注意:需要适当降低通道音量。                                                        |

|    |                 |                                                                                                                        |
|----|-----------------|------------------------------------------------------------------------------------------------------------------------|
| 5  | J800 Lo         | 本模型可获得明亮干净的CLEAN音色, 推荐用此模型作为CLEAN音色。                                                                                   |
| 6  | J800 Lo OD      | 前置有过载单块的J800 Lo模型, 此模型可获得明亮的过载音色。                                                                                      |
| 7  | J800 Hi         | 本模型在不同失真度的设定下, 音色范围可以从明亮的CLEAN到高增益CRUNCH, 适合摇滚、POP、BLUES、等多种风格, 尤其适合老式摇滚, 其出色的临场度及饱满度, 常被作为现场演奏的首选。                    |
| 8  | J800 Hi OD      | 此模型在J800 Hi基础上, 在前端增加OD单块作为BOOST, 使其拥有更高增益, 适合作为LEAD或高增益RHYTHM, 或部分METAL风格。                                            |
| 9  | DualRect Red    | 美式高增益, 适合风格从传统METAL, NEW METAL, PUNK等多种摇滚风格, 独特的粘稠感在演奏LEAD部分时可以获得更好的情感表达。                                              |
| 10 | DualRect Red OD | 以OD作为前端BOOST, 使本模型得到更加紧密厚实的HI GAIN音色, 适合风格从摇滚到重金属, 以及更极端金属乐风格。                                                         |
| 11 | 5153 EL34       | 此模型以传奇的以EL34电子管作为后级放大的高增益音箱为原型建模, 适合从硬摇滚到现代金属等多种摇滚风格, 其紧密、中频十足的失真音色尤其受金属核风格乐手喜爱。                                       |
| 12 | 5153 EL34 OD    | 此模型以传奇的以EL34电子管作为后级放大的高增益音箱为原型建模, 辅助以前置过载单块作为BOOST, 可获得更加极端的失真音色, 适合从硬摇滚到现代金属等多种摇滚风格, 到极端金属乐等多种音色风格。                   |
| 13 | 5153 6L6        | 此模型以传奇的以6L6电子管作为后级放大的高增益音箱为原型建模, 适合从硬摇滚到现代金属等多种摇滚风格, 其紧密、中频十足的失真音色尤其受金属核风格乐手喜爱。相比EL34电子管, 6L6电子管可以获得更厚实的中低频, 以及更细密的高频。 |
| 14 | 5153 6L6 OD     | 此模型以传奇的以6L6电子管作为后级放大的高增益音箱为原型建模, 辅助以前置过载单块作为BOOST, 进一步强化中频增益, 音色变得更加极端, 是极端金属风格的不二之选。                                  |

以上14种音色组合可以覆盖多种音乐风格的音色需求,配合JAM BUDDY II内置的后置EQ,可以实现更多类型的基础音色,有关后置EQ,请看下面‘通道音量、后置EQ、输入输出相位、其他AMP音色相关进阶参数调节’章节。

### 3. 选择效果、编辑效果参数

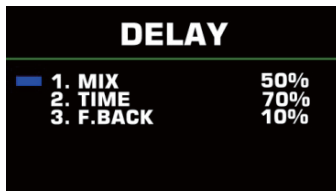
JAM BUDDY II 内建调制、延迟以及混响三个效果模块,你可以操作以下旋钮来进行效果选择或编辑

- RVB./D.VOL                      操作本旋钮可以编辑REVERB效果模块
- DLY./D.TYPE                  操作本旋钮可以编辑DELAY效果模块
- MOD./D.SPEED                操作本旋钮可以编辑MOD效果模块

要选择模块效果,您可以按下对应的旋钮,此时显示屏会显示效果图标,您可以通过旋转此旋钮来选择要使用的效果,选择结束后按GAIN/QUIT按钮退出编辑,或在此界面下,再次按下旋钮,此时屏幕将跳转至效果参数调节界面,在参数调节界面下,您可以通过按压旋钮,使光标变为红色或蓝色,当光标变为红色时,旋转旋钮即可对参数进行调节,光标为蓝色时,旋转旋钮将改变光标位置,以选择要编辑的条目。



(a)



(b)

在非参数编辑界面、模块效果选择界面、鼓机界面,以及调音表界面,您也可以通过直接旋转效果旋钮的方式进入效果参数编辑界面,在默认状态下,第一个效果参数处于直接可调的状态,如果第一个参数被调至最小,对应的效果将被BYPASS。

## 4. 音色通道切换

JAM BUDDY II 设有两个音色通道, 分别为CLEAN通道以及DRIVE通道, 其中, DRIVE通道包含有RHYTHM以及LEAD两个子通道, 您可以用CHANNEL踏板来切换CLEAN或DRIVE通道, 并用DRIVE MODE踏板来选择合适的DRIVE模式, 就是说, JAM BUDDY II 实际拥有三个独立通道, 这样设计的好处是, 您可以通过两个踏板, 方便地得到三种音色设定, 因为我们通常都至少需要CLEAN、DRIVE以及LEAD这三种音色来演奏一首曲目。

### ※小技巧

当通道为CLEAN时, 操作DRIVE MODE踏板不会改变当前音色, 只有通道位于DRIVE时, 音色才会切换成DRIVE音色, 所以您可以在使用CLEAN通道时, 预先操作DRIVE MODE踏板, 来选择将要使用的DRIVE音色。在DRIVE通道下, 如果您操作DRIVE MODE踏板, 那么音色将直接在RHYTHM和LEAD之间进行切换。

虽然我们预先在逻辑上划分了DRIVE/RHYTHM/LEAD通道, 但实际上, 每个通道的音色您都可以随意进行设定, 来满足您的演奏需要。

## 5. 箱头音色调节

您可以通过旋转操作面板的GAIN / TREBLE / MID / BASS旋钮来直接对箱头模型音色进行调节, GAIN用来调整箱头增益, 或我们常说的“失真度”; TREBLE / MID / BASS是基于原始箱头模型建模的三段均衡, 您可以通过这三个旋钮来调节模型的高中低频。

## 6. 通道音量、后置EQ、输入输出相位、其他AMP音色相关进阶参数调节

您可以通过旋转AMP/CH.VOL旋钮进入通道音量与后置EQ调节界面(AMPLIFIER)。进入界面后, 光标显示为红色, 并停留在CH.VOL位置, 您可以直接旋转AMP/CH.VOL旋钮, 来调节通道音量。如图(c)所示。

| AMPLIFIER |     |  |
|-----------|-----|--|
| 1. CH VOL | 50% |  |
| 2. HPF    | OFF |  |
| 3. LPF    | OFF |  |
| 4. HIGH   | 0dB |  |
| 5. MID    | 0dB |  |
| 6. LOW    | 0dB |  |

(c)

如果您要调节其他参数,您可以按下AMP/CH.VOL旋钮,光标将变为蓝色,此时您可以旋转本旋钮,使光标停在您要编辑的条目前,再次按下本旋钮,光标变成红色,此时您可以通过旋转旋钮,来改变当前条目的参数值,此界面每一条参数的意义如下

- CH.VOL 当前通道音量。除了CH.VOL可以影响输出音量,GT.VOL旋钮同样可以影响输出音量,区别在于,GT.VOL作用于全部三个通道,也是JAM BUDDY II的吉他总音量控制旋钮。
- HPF 高通滤波器,也就是我们常说的“低切”,用于滤除不必要的低音,当参数低于25Hz时,高通滤波器将被关闭。
- LPF 低通滤波器,可用于滤除不必要的高音,可根据您的个人喜好来设定。当参数高于19000Hz时,本滤波器将被关闭。
- HIGH 后置EQ的高频调节,您可根据实际听感来调节,如不需要,可设置为0dB。
- MID 后置EQ的中频调节,您可根据实际听感来调节,如不需要,可设置为0dB。
- LOW 后置EQ的低音调节,您可根据实际听感来调节,如不需要,可设置为0dB。

在本界面下,长按AMP/CH.VOL旋钮,可进入进阶参数调节界面(AMPLIFIER MISC)。如图(d)所示。

## AMP MISC

|              |        |
|--------------|--------|
| 1. PHASE.IN  | Nor    |
| 2. PHASE.OUT | Nor    |
| 3. TREB.FC   | 1900Hz |
| 4. MIDD.FC   | 1000Hz |
| 5. MIDD.Q    | 0.7    |
| 6. BASS.FC   | 400Hz  |

(d)

在本界面下，共有6个可供调节的参数，其意义如下

- PHASE.IN 调节输入到箱头模型的信号相位，NOR为不改变，INV为信号反相。
- PHASE.OUT 调节箱头模型的输出信号相位，NOR为不改变，INV为信号反相。
- TREB.FC 调节后置EQ-HIGH的中心频率，可根据您要演奏的音乐风格来尝试不同设定。
- MIDD.FC 调节后置EQ-MID的中心频率，可根据您要演奏的音乐风格来尝试不同设定。
- MIDD.Q 调节后置EQ-MID的作用频率宽度，值越小，频率作用范围越宽。
- BASS.FC 调节后置EQ-BASS的中心频率，可根据您要演奏的音乐风格来尝试不同设定。

调节完成后，可按下GAIN/QUIT旋钮退回到AMPLIFIER界面。

## ※小技巧

为了能获得更好的音乐或伴奏回放效果，JAM BUDDY II使用全频喇叭作为回放载体，而真正的吉他音箱是不会使用全频喇叭来作为吉他喇叭来回放吉他音色的，那样会让吉他音色变得松散无力，所以JAM BUDDY II内置有电吉他箱体模型，如此才能让JAM BUDDY II即兼顾吉他演奏音色品质，又能获得比较高的伴奏或音乐回放品质，但即便如此，单一的某种“音箱声”也不能够完全适应多种音色风格，这时后置EQ就变得非常重要，通过后置EQ的进一步修饰，您可以获得适合更多音乐风格的音色，通过利用后置EQ对音色频率宽度进行限定，还可以确保吉他本身音色不挤占其他乐器的频率，让所有乐器都保持清晰可辨别。通常，比如在现场演奏或混音时，都会利用高通滤波器（低切）来滤除

一些低频,并用低通滤波器(高切)来滤除吉他音色中刺耳的“嘶嘶”声,同时再用中频EQ来提一点中频,来得到一个饱满有力的吉他音色。如果您对后置EQ的使用不是很了解,建议您向专业演奏者请教或者在网络上搜索专业演奏者的经验分享,或尝试不同的参数设置,来获得满意的音色。

### ※小技巧

吉他的琴弦高度对吉他音色有着巨大的影响,一个合适的琴弦高度不但会提升演奏手感,同时也会降低不必要的吉他低频输出,并增强琴弦震动的中高频谐波比例,琴弦高度过高除了影响演奏手感,过多的低频还会让音色变得粘稠缺乏清晰度,必要时,可调整琴弦高度,以便获得更好的吉他音色。

注意: 因为JAM BUDDY II内部算法已完整集成了从前级到后级再到箱体在内的完整吉他音箱系统模型,吉他专用音箱并不适合为JAM BUDDY II做二次功率放大,如需要更大的音量,您可以使用LINE OUT接口,连接家用多媒体音箱或其他全频音箱来进行声音功率增幅。

## 7. 使用鼓机

为了方便练习,提升练习乐趣,JAM BUDDY II内建鼓机模块,要使用鼓机,您可以直接按下TRE./D.CTRL旋钮,按下后鼓机即可启动,显示屏将显示鼓机界面,此时,您可以通过旋转RVB./D.VOL旋钮、DLY./D.TYPE旋钮,以及MOD./D.SPEED旋钮,来分别对鼓机的音量、类型、速度进行调整,您可通过按下GAIN/QUIT旋钮,或操作其他旋钮来退出鼓机界面,退出界面不会关闭鼓机,要关闭鼓机,您需要在鼓机界面下,按下TRE./D.CTRL旋钮,此时鼓机停止,鼓机界面也会同时退出。

注意: 一旦LOOPER功能启动,并已录制内容,鼓机的TYPE以及SPEED将被锁定,无法调节,因为LOOPER需要鼓机来同步录音节拍。

## 8. 使用LOOPER

为使练习更富乐趣,JAM BUDDY II内建LOOPER功能,最长录制时间30秒。要启动LOOPER,您需要使用CHANNEL踏板和DRIVE MODE踏板。

### ·录音

在没有录制内容的情况下,同时踩下CHANNEL踏板和DRIVE MODE踏板,录音启动,屏幕底部亮起红色光条,录制完成后再次同时踩下两个踏板,开始播放录制的内容,屏幕底部光条将变为绿色。

### ·叠录

在播放状态下,再次同时踩下两个踏板,叠录启动,叠录不会自动停止,直到您再次同时踩下两个踏板,叠录内容将和上次录音内容一同被回放。

### ·停止LOOPER回放

在回放状态,连续两次踩下两个踏板,播放即可停止,若要启动播放,只需要再次同时踩下两个踏板。

### ·清除叠录

在播放状态下,同时踩住两个踏板不放约1秒以上,开始启动叠录清除,此时屏幕底部先变为红色,再变为蓝色,最后变为绿色,清除完成。

### ·清除全部录音

在播放状态下,连续两次同时踩下两个踏板,并保持不放,直到屏幕底部亮起蓝色光条,录音清除启动,清除完毕后,屏幕光条消失,LOOPER回到初始状态,与此同时,鼓机锁定被解除。

**注意:**一旦LOOPER功能启动,并已录制内容,鼓机的TYPE以及SPEED将被锁定,无法调节,因为LOOPER需要鼓机来同步录音节拍。

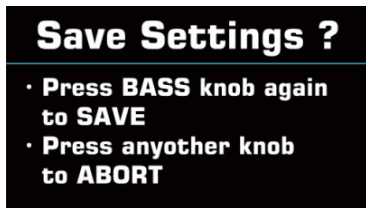
**注意:**如果TUNER功能被激活,LOOPER回放将被会停止,在TUNER退出之前,您将无法重新激活LOOPER的播放功能。

**提示:**鼓机可以辅助LOOPER实现更精准的节拍对齐,建议在使用LOOPER时开启鼓机模块。

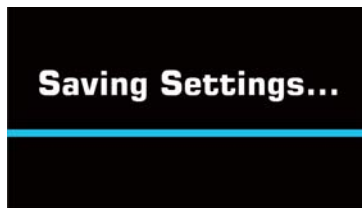
## 9. 保存参数

如您需要保存当前设置, 请按下BASS/SAVE旋钮, 屏幕将显示确认信息, 询问是否要保存设置, 如不保存, 可以按其他任意旋钮来退出本界面, 如需保存设置, 则再次按下BASS/SAVE旋钮, 按下后, 屏幕提示正在保存 (Saving Settings), 并在进度条结束后自动退出保存界面。

**提示:**除了三个通道的效果参数以外, 鼓机的当前设置也将被保存。



(e)



(f)

## 10. 自动关机

为了延长电池寿命, JAM BUDDY II将在没有任何音频信号输入后的20分钟后自动关机。

## 11. 使用蓝牙播放音乐

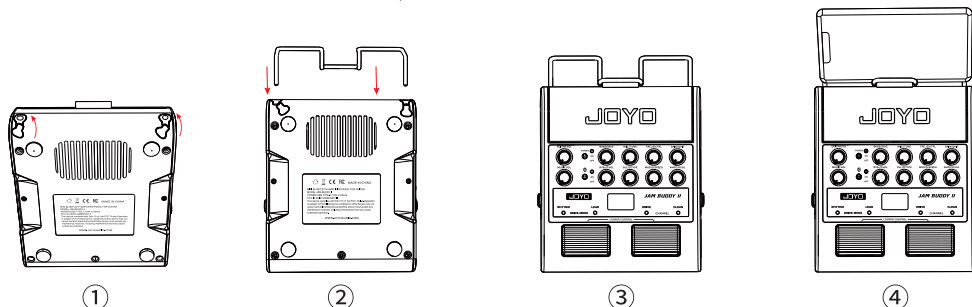
JAM BUDDY II内置有蓝牙模块, 您可以方便的使用本功能来播放喜欢的音乐或伴奏, 要使用蓝牙音乐播放功能, 请打开面板上的蓝牙开关, 并在您的设备上找到“JAM BUDDY II”, 并连接, 连接成功后, 蓝牙指示灯常亮, 此时您可以根据需要使用本机来播放音乐或伴奏。

## 12. 使用USB-OTG接口录制音频

JAM BUDDY II内置USB音频接口功能, 您可使用附带的USB Type-C线缆连接本机左侧的OTG接口到您的电脑或移动设备, 来录制您的演奏, 或通过OTG接口向JAM BUDDY II传输音频数据, 并播放音乐。

## 13. 手机支架架的使用

手机支架安装孔位于JAM BUDDY II的前方, 如图所示。您可以按照如下步骤安装手机支架。



- . 轻轻拉出手机支架安装孔的橡胶塞, 注意橡胶塞固定于机壳之上, 请勿过度用力, 以免拉断橡胶塞。
- . 将随机附带的金属支架缓缓推入安装孔。

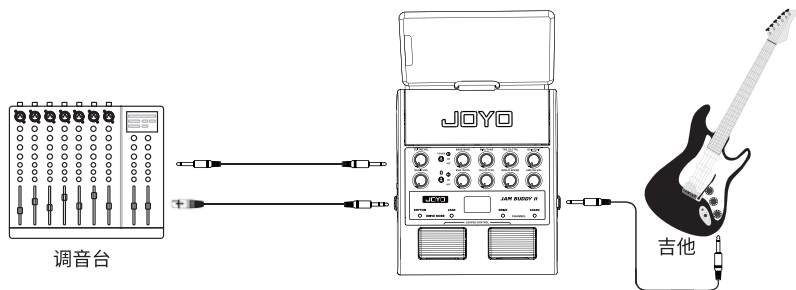
**注意:**在不使用支架时, 建议取下支架, 以免跌落时损坏机壳。

## 14. 为本机充电

JAM BUDDY II随机不附带充电器, 您可以使用您现有的充电器为本机充电, 充电器最低功率需要大于或等于10瓦, 可用的适配器包括普通的5V/2A适配器, 或其他标准的USB Type-C兼容充电器(PD/QC快速充电器)。

## 15. 关于输出接口

JAM BUDDY II的吉他输出接口(左侧6.35毫米输出接口)支持平衡输出,此接口可以使用普通的单声道6.35毫米吉他线来连接PA系统的非平衡输入接口,也可使用TRS转XLR平衡线,将JAM BUDDY II的信号转换为平衡信号,再接入PA系统的平衡输入接口,进行扩声。您可根据需要来选择合适的线材来连接您的二次扩声设备。



## 16. 恢复出厂设置

如需恢复出厂设置,请在关机状态下,按住AMP/CH.VOL旋钮,再打开电源开关即可。恢复后,所有已保存的参数将被替换为出厂默认参数。

## 电气参数

**充电接口参数：**JAM BUDDY II随机不附带充电器，您可使用您现有的带有USB Type-C接头的充电器为本机充电，充电器功率要求大于或等于10W，充电器最低要求为5V/2A。

**内部电池组：**7.4V 2200mAh 锂离子电池

**喇叭：**2 x 40mm 内磁全频4Ω/8W喇叭

**额定功率：**5W x 2

**音乐输出声道数：**立体声 (耳机、USB-Type C、LINE OUT、喇叭)

**吉他回放声道数：**单声道

**吉他输出声道数：**单声道

**LINE IN声道数：**立体声

**充电接口类型：**USB Type-C

**快速充电支持：**不支持

**充电器要求：**USB Type-C, 功率大于等于10W

**吉他输入灵敏度：**-3.1dBV

**LINE IN输入灵敏度：**0dBV

**LINE OUT输出电平：**0dBV

**吉他输出电平：**(差分输出) 0dBV

**耳机驱动能力：**52mW

**额定耳机输出负载阻抗：**32Ω

**产品尺寸：**161(长)X182(宽)X70(高)mm (不含支架)

**产品重量：**940g

## 包装清单

· JAM BUDDY II主机 x 1

· 产品说明书 x 1

· 金属手机支撑架 x 1

· USB Type-C数据线 x 1

### 卓乐产品服务政策

一、在正常使用产品过程中，如果产品出现非人为损坏的性能故障，自购买之日起，消费者享有保修服务，保修期为12个月。  
二、有下列情况之一者，消费者不能享受保修权益。

1、人为损坏；2、超过保修期；3、无保修卡及有效发票，但能够证明产品在保修期内的除外；4、保修卡与产品型号不符，或保修卡被涂改；5、未按说明书要求使用、维护、保养而造成产品损坏；6、未经卓乐公司授权，擅自拆卸、维修产品、或浸水、摔坏产品；7、其他不可抗力造成的损坏。

#### 三、卓乐服务信息

消费者服务热线：0755-29765390

更多信息请访问：www.joyochina.cn



### 卓乐产品保修卡

|        |          |      |  |
|--------|----------|------|--|
| 产品型号   |          | SN号码 |  |
| 用户信息   | 姓名       | 购机日期 |  |
|        | 电话       |      |  |
|        | 地址       |      |  |
|        | 发票号码     |      |  |
| 销售单位信息 | 名称（加盖公章） |      |  |
|        | 地址       |      |  |
|        | 电话       |      |  |

品牌: JOYO

名称: 电吉他音箱

执行标准: QB/T 4326-2012

制造商: 深圳市卓乐科技有限公司

地址: 广东省深圳市宝安28区新安三路陆氏工业大厦2楼 邮编: 518133

售后服务热线: 0755-29765390

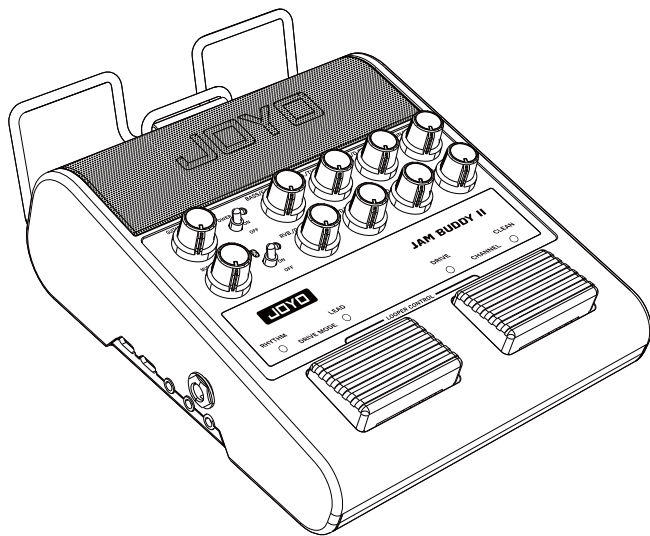
### 产品合格证

检验结论 \_\_\_\_\_ 合格 \_\_\_\_\_

检验员号 \_\_\_\_\_ QC 01 \_\_\_\_\_

日期 \_\_\_\_\_

# Owner's Manual



**JOYO**

## Important safety instructions



**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE.REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**

**WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK,DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.**



The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product' s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



This symbol is intended to alert the user--- Use only with 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.



**WARNING:**

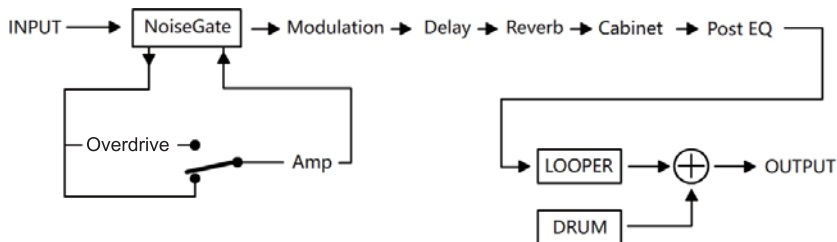
When the product is being charged or connected with power adapter, don't remove its cover(or back), touch the parts and repair it by yourself!

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE!**

## Detailed safety instructions

- For your safety and to enable you to become proficient in using and maintaining this product more quickly, please read thoroughly and fully understand all safety instructions and usage guidelines in this manual before operation. Please retain it for future reference.
- Do not immerse the device in seawater, water, or use it in damp environments such as bathtubs, toilets, laundry tubs, kitchen sinks, or near swimming pools, to prevent liquid from seeping into the device, which may cause malfunctions, operational failure, or electrical hazards. Avoid using the device in environments filled with flammable or explosive gases, such as gas stations or dusty areas with combustible particles.
- With built-in lithium battery pack, don't charge, use or place it near heat sources (such as fire, heater, direct sunshine, in hot car and more), otherwise the battery might overheat, on fire or malfunction and damage the battery.
- Don't use this product in places where is full of flammable and explosive gas, such as gas station or dusty areas.
- If the built-in battery is broken, don't buy a new one and change it by yourself, it might cause malfunction, explosion or fire due to inferior quality, as the built-in battery has passed strict tests and has safety certificates, please contact your retailer for battery replacement.
- Don't use alcohol or other cleaning fluids to clean this product, otherwise it will damage the surface, use a clean dry cloth when necessary.
- Don't open the case for any reason, please contact professional maintenance men if it malfunctions, or contact your local retailer for maintenance.
- Don't pull the power cord or other parts of this product, so as not to damage the power cord and plugs.
- Please turn off this product and unplug it during a thunderstorm, lightning or not in use for a long time.
- Don't collide, throw or vibrate this product.
- To protect the built-in battery, please place it in cool, dry conditions, and have a full charge if it's not in use for a long time and ensure charge it for every 2 months.
- If it indicates low battery, please charge it in time, as over discharge and low battery will cause irreversible loss to the battery capacity, and damage the battery.

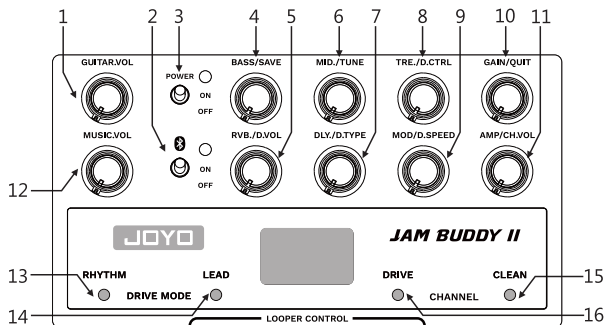
## Effects chain diagram

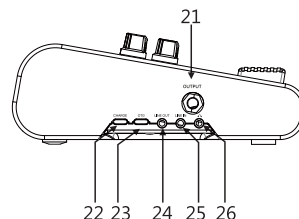
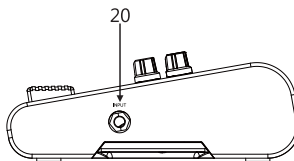
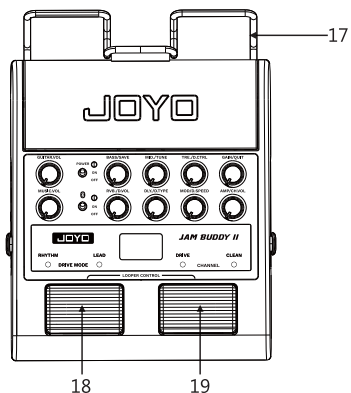


**Note:** The parameters for Noise gate has already been set, so this module has no adjustable parameters.

**Note:** The parameters for Overdrive has already been set, so this module has no adjustable parameters.

## Panel





1. GUITAR.VOL Knob
2. Bluetooth Switch
3. Power Switch
4. BASS/SAVE Knob
5. RVB./D.VOL Knob
6. MID./TUNE Knob
7. DLY./D.TYPE Knob
8. TRE./D.CTRL Knob
9. MOD/D.SPEED Knob

10. GAIN/QUIT Knob
11. AMP/CH.VOL Knob
12. MUSIC.VOL Knob
13. RHYTHM Mode Indicator
14. LEAD Mode Indicator
15. CLEAN Channel Indicator
16. DRIVE Channel Indicator
17. Phone mount
18. OVERDRIVE Channel Mode Select Footswitch

19. Channel Switch Footswitch
20. Guitar Input Jack(INPUT)
21. Guitar Output Jack
22. Charging Port
23. USB Port(OTG)
24. LINE OUT
25. LINE IN
26. HEADPHONE OUT Jack

## Instructions

### 1. Use the tuner

You can turn on/off the tuner function by pressing the MID./TUNE knob, when it's been turned on, the screen indicates tuner.

**Note:** When the tuner function is turned on, all enabled effects, LOOPER and drum machine will be turned off.

**Note:** When the tuner function is turned on, JAM BUDDY II will not respond to any operations other than turning off the tuner until the tuner function is exited.

### 2. Select the amp head models

In PLAY MODE(The screen indicates some amp head icon), press AMP/CH.VOL knob and enter amp head mode select page, now the top of the screen indicates "Selecting AMP...", now you can choose your desired model via rotate the AMP/CH.VOL knob. Please refer to all the models and corresponding genres in the table as below.

| 1 | 65 Black Nor    | CLEAN with subtle distortion, ideal for JAZZ, BLUES, etc that don't require sparkling highs, 3-band EQ affects both the tone and GAIN, try to turn up the 3-band EQ and GAIN to the maximum, you'll get a little bit OVERDRIVE yet smooth CLEAN. <b>Note:</b> Please turn down the Channel Volume accordingly.                   |
|---|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | 65 Black Nor OD | Less Overdriven tone, perfect for playing the slightly Overdriven parts in JAZZ/BLUES, 3-band EQ affects both the tone and GAIN, try to turn up the 3-band EQ and GAIN to the maximum, you'll obtain the classic slight OVERDRIVE with pronounced mid-range punch. <b>Note:</b> Please turn down the Channel Volume accordingly. |
| 3 | 65 Black Vib    | CLEAN with low-DISTORTION, brighter treble, suitable for JAZZ, BLUES, FUNK, POP, etc, 3-band EQ affects both the tone and GAIN, try to turn up the 3-band EQ and GAIN to the maximum, you'll get medium-Gain OVERDRIVE with pronounced mids punch. <b>Note:</b> Please turn down the Channel Volume accordingly.                 |
| 4 | 65 Black Vib OD | OVERDRIVE tone that simulates OVERDRIVE pedal connecting to the amp, making the OVERDRIVE pedal's OVERDRIVE tone stands out, fits for multiple genres, much more versatile. <b>Note:</b> Please turn down the Channel Volume accordingly.                                                                                        |

|    |                 |                                                                                                                                                                                                                                                                                                                                            |
|----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5  | J800 Lo         | This model can get bright, pristine CLEAN, we recommend that you use it as CLEAN.                                                                                                                                                                                                                                                          |
| 6  | J800 Lo OD      | PRE has J800 Lo model with OVERDRIVE pedal, offering bright OVERDRIVE.                                                                                                                                                                                                                                                                     |
| 7  | J800 Hi         | Under different Gain settings, this model's tone spanning bright CLEAN and Hi-Gain CRUNCH, suitable for rock 'n' roll, POP, BLUES, etc, especially for classic rock, delivering stunning, bright PRESENCE, so it's usually the top choice for live performance.                                                                            |
| 8  | J800 Hi OD      | Based on the J800 Hi, with an OVERDRIVE (OD) pedal as a front-end boost, thus achieves heightened Gain, suitable for LEAD guitar or Hi-Gain RHYTHM, or METAL's subgenres or fusion genres.                                                                                                                                                 |
| 9  | DualRect Red    | Characterized by American Hi-gain, this model fits for the traditional metal, new metal, punk, and more. Its unique saturated Lead tones resonate with the audience.                                                                                                                                                                       |
| 10 | DualRect Red OD | Use OVERDRIVE(OD) as the front-end BOOST, this model offers crisp HI-GAIN , fits for rock 'n' roll, heavy metal, and extreme metals.                                                                                                                                                                                                       |
| 11 | 5153 EL34       | This model is based on the legendary Hi-Gain amplifier using EL34 tubes as the power amp, suitable for multiple rock genres from hard rock to modern metal, etc. Its pronounced mid-range distortion is particularly favored by metalcore guitarists.                                                                                      |
| 12 | 5153 EL34 OD    | This model is based on the legendary Hi-Gain amplifier using EL34 tubes as the power amp, with a pre-Overdrive pedal as boost to achieve much more extreme distortion tones. It fits for diverse rock genres spanning hard rock, modern metal, extreme metal and more.                                                                     |
| 13 | 5153 6L6        | This model is based on the legendary Hi-Gain amplifier using 6L6 tubes as the power amp, suitable for various rock genres from hard rock to modern metal, its tight mids distortion is especially popular among metalcore players. Compared to EL34 tubes, the 6L6 tubes deliver more mid-low frequencies and more refined high frequency. |
| 14 | 5153 6L6 OD     | This model is based on the legendary Hi-Gain amplifier using 6L6 tube as the power amp, together with a pre-Overdrive pedal as a boost that further enhances the mids gain. The tone becomes much more aggressive, making it the top choice for extreme metal players.                                                                     |

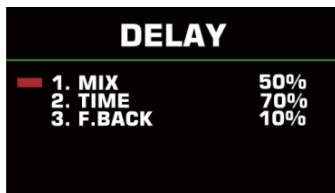
The 14 tone combinations as above cater to the tonal needs of multiple music genres. When combined with the built-in POST-EQ of JAM BUDDY II, more types of fundamental tones can be achieved. For details about the POST-EQ settings, please refer to the following sections regarding "Channel Volume, POST-EQ, Input/Output Phase, and Other AMP Tone-Related Advanced Parameter Adjustments".

### 3. Select effects, edit effects parameters

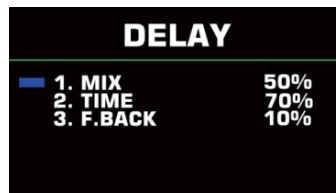
JAM BUDDY II features 3 built-in effects modules: MODULATION, DELAY and REVERB, you can select or edit the effects via the knobs as below:

- RVB./D.VOL                      You can edit the REVERB effects module via RVB./D.VOL knob
- DLY./D.TYPE                  You can edit the DELAY effects module via DLY./D.TYPE knob
- MOD./D.SPEED                You can edit the MODULATION effects module via MOD./D.SPEED knob

You can press the corresponding knob to select the effects of the module, now the display screen will indicate the effects icon, you can rotate the knob to select your desired effects, once finished selection, press GAIN/QUIT button to exit editing, or press the knob again in this page, now the display screen will switch to parameter editing page, in this page, you can press the knob and the cursor will become red or blue, when the cursor is in red, rotate the knob to adjust the parameters, when the cursor is in blue, rotate the knob will change the cursor's position, so as to select the item you need to edit.



(a)



(b)

In non-parameter editing page, module effects select page, drum machine page and tuner page, you can enter effects parameter editing page by rotating the effects knob directly, as in default status, the very first effects parameter can be adjusted directly, if the **very first parameter** has been turned down to "0", its corresponding effects will be bypassed.

#### 4. Switch among the Tone Channels

JAM BUDDY II features 2 tone Channels: CLEAN Channel and DRIVE Channel, DRIVE Channel has 2 subchannels: RHYTHM and LEAD, you can use the CHANNEL Footswitch to switch between CLEAN Channel or DRIVE Channel, and choose suitable DRIVE mode via the DRIVE MODE Footswitch, that is to say, in fact, JAM BUDDY II has 3 independent Channels, thanks to this design, you can get 3 tones with ease via 2 Footswitches, as normally we need at least CLEAN, DRIVE and LEAD to perform a song.

##### ※Tip

When in CLEAN Channel, adjust the DRIVE MODE Footswitch won't change the current tone, only when it's in the DRIVE Channel, the tone will be switched to DRIVE tone, so you can adjust the DRIVE MODE Footswitch in advance while using CLEAN Channel, so as to choose your desired DRIVE tone you're going to use. In DRIVE Channel, if you operate the DRIVE MODE Footswitch, the tone will be switched between RHYTHM and LEAD.

Although we've divided the Channels into DRIVE/RHYTHM/LEAD by logic in advance, in fact, each Channel's tone can be set by you at will based on your gigs.

#### 5. Adjust the amp head tones

You can adjust the amp head model tone by rotating the GAIN/TREBLE/MID/BASS knobs from the panel, GAIN knob is used to adjust the amp head's GAIN. TREBLE/MID/BASS knobs are the 3-band EQ modeled based on the original amp head model. You can control the model's treble, mids and bass via those 3 knobs.

#### 6. Channel Volume, POST EQ, INPUT/OUTPUT PHASE, other amp tone's related advanced parameter adjustment

You can enter Channel Volume and POST EQ adjustment page(AMPLIFIER) by rotating AMP/CH.VOL knob. Once enters the page, the cursor is in red, and stays at the position of CH.VOL, you can rotate the AMP/CH.VOL knob directly to adjust the Channel Volume.

| AMPLIFIER |        |     |
|-----------|--------|-----|
| 1.        | CH VOL | 50% |
| 2.        | HPF    | OFF |
| 3.        | LPF    | OFF |
| 4.        | HIGH   | 0dB |
| 5.        | MID    | 0dB |
| 6.        | LOW    | 0dB |

(c)

If you need to adjust other parameters, press the AMP/CH.VOL knob and the cursor becomes blue, now you can rotate this knob and make the cursor stop at the item that you want to edit, press this knob again, the cursor becomes red, now you can change the current item's parameter by rotating the knob, in this page, each parameter's meaning are as below:

- CH.VOL The current Channel's VOLUME. CH.VOL can affect the Output Volume, GT.VOL knob also affects the Output Volume, while the difference is that the GT.VOL knob controls all the 3 Channels, it's JAM BUDDY II's guitar Master Volume Control Knob.
- HPF High-pass filter, commonly referred to as a "low-cut filter or bass-cut filter", it's used to filter out unwanted low frequencies. When the parameter is set below 25Hz, the high-pass filter will be turned off.
- LPF Low-pass filter, can be used to filter out unwanted high frequencies and adjusted according to your preferences. When the parameter is set above 19000Hz, the low-pass filter will be turned off.
- HIGH To adjust the high frequency of the POST-EQ, you can fine-tune it based on the actual listening experience, if you don't need it, just set it as 0dB.
- MID To adjust the mids of the POST-EQ, you can fine-tune it based on the actual listening experience, if you don't need it, just set it as 0dB.
- LOW To adjust the low frequency of the POST-EQ, you can fine-tune it based on the actual listening experience, if you don't need it, just set it as 0dB.

In this page, long press AMP/CH.VOL knob to enter advanced parameter adjustment page(AMPLIFIER MISC). As shown in pic(d).

## AMP MISC

|              |        |
|--------------|--------|
| 1. PHASE.IN  | Nor    |
| 2. PHASE.OUT | Nor    |
| 3. TREB.FC   | 1900Hz |
| 4. MIDD.FC   | 1000Hz |
| 5. MIDD.Q    | 0.7    |
| 6. BASS.FC   | 400Hz  |

(d)

In this page, 6 editable parameters are available, please refer to the following of their meanings:

- PHASE.IN Adjust the signal's PHASE that inputs to amp head model, NOR means doesn't change, INV means Invert signal.
- PHASE.OUT Adjust the OUTPUT signal's PHASE of amp head model, NOR means doesn't change, INV means Invert signal.
- TREB.FC Adjust the POST-EQ-HIGH's center frequency, you can choose according to the music genre that you play.
- MIDD.FC Adjust the POST-EQ-MID's center frequency, you can choose according to the music genre that you play.
- MIDD.Q Adjust the POST-EQ-MID's working bandwidth, if decrease the parameter, the frequency coverage will be increased.
- BASS.FC Adjust the POST-EQ-BASS's center frequency, you can choose according to the music genre that you play.

Once the adjustment completed, you can press GAIN/QUIT knob to return to the AMPLIFIER page.

### ※Tip:

To achieve optimal music or backing track playback, JAM BUDDY II utilizes full-range speaker. However, the traditional

guitar amplifiers don't use full-range speakers, as it makes the guitar tone saggy, so JAM BUDDY II features built-in electric guitar cabinet models, ensuring both high quality guitar tone and superior backing tracks or playback for music. Even so, a single "amp tone" doesn't fully fit for multiple music genres, therefore the POST-EQ becomes crucial. By refining the tone further with the POST-EQ, you can tailor it to suit a wider range of music genres. Additionally, by limiting the tonal frequency bandwidth via the POST-EQ, you can ensure that the guitar's frequencies don't overlap with other instruments, keeping all the instruments articulate and distinguishable. Usually, during live performance or mixing, high-pass filter (low-cut) is used to remove low frequencies below a certain frequency/cutoff frequency?, while low-pass filter (high-cut) eliminates harsh "hissy" from the guitar tone. Meanwhile, boosting the mids with MIDD-EQ, achieving full and punchy guitar tone. If you're unfamiliar with the process of using the POST-EQ, we recommend that you consult the professional musicians, exploring online tutorials by experienced players, or trying out different parameter settings to get your desired tone.

※**Tip:**

The guitar string height impacts its tone immensely. Proper string height not only enhances guitar playability, but also reduces unnecessary low-frequency output while increasing the proportion of mids and high frequency Harmonics in string vibration. Excessively high string action not only compromises playing comfort, but also makes the tone muddy and lacks clarity due to excessive lows. When necessary, you can adjust the string height to obtain better guitar tone.

**Note:** As JAM BUDDY II's internal algorithms have fully integrated a whole guitar amplifier system model, including the preamp, power amp and cabinet. Guitar-specific amplifier doesn't fit for amplifying secondary power amplification for JAM BUDDY II. If you need much higher VOLUME, you can use the LINE OUT Jack to connect to household multimedia speaker or other full-range amplifier for sound amplification.

## 7. Using the Drum Machine

To facilitate practice and enhance enjoyment, JAM BUDDY II features built-in drum machine modules. Press the TRE./D.CTRL knob if you need to use the drum machine, once pressed, the drum machine will start, and the screen will indicate the drum machine page. Now you can rotate RVB./D.VOL knob, DLY./D.TYPE knob and MOD./D.SPEED knob respectively

to adjust drum machine's VOLUME, TYPE, SPEED. To exit the drum machine page, press GAIN/QUIT knob or other knobs, exit page doesn't turn off the drum machine, if you need to turn off the drum machine, press TRE./D.CTRL knob in drum machine page, now the drum machine stops, and the drum machine page exits as well.

**Note: If the LOOPER function is activated and content has been recorded, the drum machine's TYPE and SPEED settings will be locked and cannot be adjusted. As the LOOPER requires that the drum machine's BPM should be synchronized with the recording.**

## 8. Using the LOOPER

To enrich your guitar practice, JAM BUDDY II features built-in LOOPER, up to 30s. Please use CHANNEL Footswitch and DRIVE MODE FOOTSWITCH to activate LOOPER.

### •RECORDING

When no contents have been recorded, press CHANNEL Footswitch and DRIVE MODE Footswitch simultaneously, recording is activated, a red cursor lit at the bottom of the screen, once the recording has been completed, press CHANNEL Footswitch and DRIVE MODE Footswitch simultaneously again, it starts to play what has been recorded, and the cursor at the bottom of the screen changes into green.

### •OVERDUB

Press 2 Footswitches simultaneously during playing, the overdub is activated, and overdub won't stop automatically until you press 2 Footswitches simultaneously again, and what you've been overdubbed and the contents recorded last time will be played back together.

### •Stop LOOPER Playback

During playback, press the 2 Footswitches simultaneously twice to stop. If you want to activate play, just press the 2 Footswitches simultaneously again.

**•Clear OVERDUB**

During playing, press the 2 Footswitches simultaneously and hold for over 1s, and it activates OVERDUB Clearing, now the screen's bottom becomes red first, and then changes into blue, and at last becomes green, and the whole process of OVERDUB clearing is completed.

**•Clear all the recordings**

During playing, press the 2 Footswitches simultaneously twice and hold until a blue cursor at the bottom of the screen lit, indicating clear all the recordings has been activated, once done, the cursor will disappear, LOOPER changes into the initial status, meanwhile, the Drum machine lock status will be released.

**Note:** Once the LOOPER function is activated and content is recorded, the drum machine's TYPE and SPEED will be locked, and they cannot be adjusted, as the LOOPER requires the drum machine to synchronize with the recording tempo.

**Note:** If the TUNER function is activated, LOOPER playback will be stopped. You'll be unable to reactivate LOOPER play function until the TUNER exits.

**Tip:** The drum machine can assist the LOOPER in achieving more precise auto-align. We suggest that turn on the drum machine module when using the LOOPER.

**9. Save the settings**

If you need to save the current settings, please press BASS/SAVE knob, the screen will display confirmation info, asking whether you want to save settings or not, if not, just press any knob to exit the current page, if yes, please press BASS/SAVE knob again, the screen displays (Saving Settings), and will exit save page automatically once the progress bar completed.

**Note:** In addition to the 3 Channels' effects parameters, the drum machine's current settings will be saved as well.

## Save Settings ?

- Press **BASS** knob again to **SAVE**
- Press **anyother** knob to **ABORT**

(e)

## Saving Settings...

(f)

### 10. Automatic power off

JAM BUDDY II will turn off automatically after 20 minutes without any audio signal input, so as to extend battery lifespan.

### 11. Play music via Bluetooth

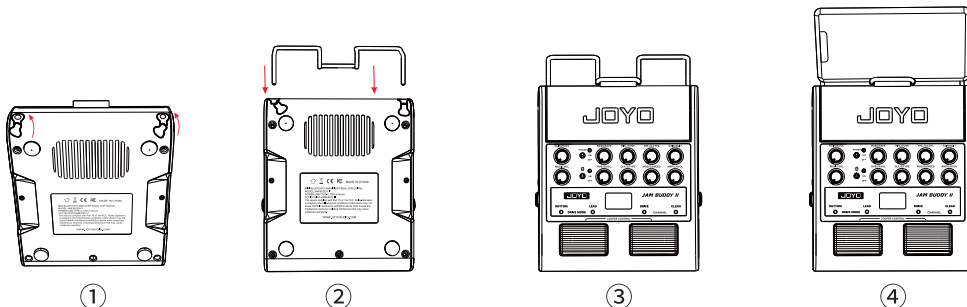
JAM BUDDY II boasts built-in Bluetooth, you can play your favorite music or backing tracks via it with ease, to use Bluetooth music playing function, please turn on the Bluetooth switch from the panel, and find "JAM BUDDY II" from your device, and then connect, once they're connected successfully, the Bluetooth indicator is on, now you can play music or backing tracks via JAM BUDDY II based on your needs.

### 12. Record audio via USB-OTG Port

JAM BUDDY II features a built-in USB audio interface functionality. Use the attached USB Type-C cable to connect the OTG port (locates on the left side) to your computer or mobile devices to record your performances, or transfer audio data to JAM BUDDY II via the OTG port and play music.

### 13. Using the phone mount

The phone mount socket is located at the front of JAM BUDDY II (as illustrated). You can follow the steps as below to install the phone mount:



- . Gently pull out the rubber stoppers from the sockets. Note: The rubber stoppers are attached to the upper of the device casing, please avoid excessive force so as to avoid snap the rubber stoppers.
- . Insert the attached metal mount into the sockets slowly.

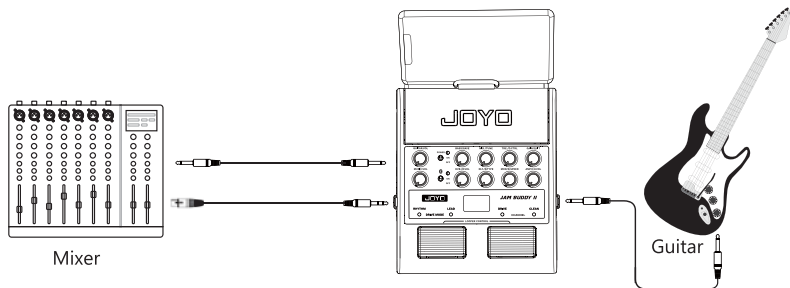
**Note:** Please remove the mount when not in use, the case may damage if the unit drops on the floor.

### 14. Charge the unit

JAM BUDDY II does not include a charger. You may use your own charger, however, they need to meet the following specifications: the minimum power requirement of chargers: more than 10W or equals to 10W, such as the standard 5V/2A adapters, or other standard compatible chargers: USB Type-C compliant chargers (including PD/QC fast chargers).

## 15. About the Guitar Output Jack

JAM BUDDY II's Guitar Output Jack(Left 6.35mm Output Jack) supports balanced outputs, you can use the common mono 6.35mm guitar cables to connect to unbalanced inputs of PA systems, or use TRS-to-XLR balanced cables to convert JAM BUDDY II's signal into balanced signal, and then connect to PA system's balanced Inputs for amplification. You can select the appropriate cables based on your secondary sound reinforcement equipment.



## 16. Reset to factory settings

If you need to reset to factory settings, press and hold AMP/CH.VOL knob when the unit is off, then turn on the power switch. After the reset, all the parameters have been saved before will be replaced with factory default parameters.

## Parameters

**Charging Interface Specifications:** JAM BUDDY II does not come with a charger included. You can use your existing charger with a USB Type-C connector to charge JAM BUDDY II. The charger must have a power output of 10W or higher, the minimum requirement: 5V/2A.

**Internal battery pack:** 7.4V 2200mAh Lithium-ion battery

**Speaker:** 2 x 40mm internal magnetic full-range 4Ω/8W  
speaker

**Rated power:** 5W x 2

**Music Output Channels:** Stereo (Headphones、USB-Type-C、  
LINE OUT、speaker)

**Guitar Playback Channels:** Mono

**Guitar Output Channels:** Mono

**LINE IN Channels:** Stereo

**Charging Interface Type:** USB Type-C

**Fast Charging Support:** Not Supported

**Charger Requirements:** USB Type-C, Power  $\geq 10W$

**Guitar Input Sensitivity:** -3.1dBV

**LINE IN Input Sensitivity:** 0dBV

**LINE OUT Output Level:** 0dBV

**Guitar Output Level:** 0dBV (Differential Output)  
0dBV

**Headphone Driving Power:** 52mW

**Rated Headphone Output Load Impedance:**  $32\Omega$

**Dimensions:** 161(L)X182(W)X70(H)mm (Excluding  
metal phone mount)

**Weight:** 940g

## Package contents

·JAM BUDDY II x 1

·Owner's manual x 1

·Metal phone mount x 1

·USB Type-C cable x 1

## JOYOTECHNOLOGY CO., LTD

Address: 2/F, Lushi Industry Building, 28th District, Bao'an, Shenzhen, 518133 China.

www.joyoaudio.com

Email: info@joyoaudio.com

Tel: 0086-755-29765381

## **FCC warning statements:**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The device has been evaluated to meet general RF exposure requirement This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.