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## M audio prokeys 88 service manual

M-Audio have applied the same economies of scale to this digital piano that they have to controller keyboards, with the result that the Prokeys 88 retails for well under £500, with the cut-down Prokeys 88SX costing even less. Last year, when I reviewed their top-of-the-range Keystation Pro 88 master keyboard, it seemed to me that M-Audio could progress no further from the inexpensive mini-controllers with which they made their name in the controller market. But then I walked onto their booth at NAMM last year to find that they had taken the next logical step, putting some sounds into the silent weighted 88-note keyboard, including, of course, that of a grand piano (the main reason to have an eight-octave keyboard in the first place). The only problem I have had using weighted wooden keyboards live is finding a piano sound to match the quality of the keyboard. Software instruments like Ivory and The Grand are great, but they take a lot of room and processing power on a computer, and it can take a while to boot them up before they can be accessed. Enter the Prokeys 88, the most useable stage piano I have ever tried.



Its dedicated Grand Piano button at the top right is just the first of many features which make it a most reliable live workhorse. Even if you have your master keyboard well program followed by two or three digits on a keypad is too hit-and-miss a procedure when you need a grand piano under your fingers right now. On the Prokeys 88, nothing could be simpler. Hitting the Grand Piano key, which you could find in a coal cellar at midnight, calls up not only the first piano sound on the instrument but also your reverb and chorus settings of choice. And any complicated splits or layers you've set up are automatically overridden, so you don't have any embarrassments when performing. Simple Splits & Layers Not that it is difficult to set up what you want on the Prokeys 88, even if that is two sounds layered in the right hand in different octaves, an acoustic bass doubled with a ride cymbal sample (for that jazz rhythm feel) and another sound ready to go on another layer. One of my own staple live numbers was recorded using piano, acoustic bass and drums, with strings and a Hammond organ overdub.

Live, I usually have to go for a reduced arrangement featuring just the piano, but on the Prokeys 88 it took me less than a minute (without the manual) to work out how to produce a reasonable facsimile of the recorded version on my own in a live situation. I split the keyboard at G2, select the acoustic bass and ride cymbal instruments to layer below the split, so that by playing octaves with my left hand, the little finger is playing the bass and my thumb the piano, adjust that balance, increase the reverb a touch and finally have the organ ready to switch to on the other layer for the Jacques Loussier section in the middle of the piece. And even when I don't have time to do this before I start the song, each step can be done on the fly when I need it.

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Whichever instrument was last used is called up automatically, and its button starts flashing for three seconds (M-Audio call this the Edit Mode) during which you can change it by pressing the button for another instrument. If that instrument is a bass (acoustic or electric) you can double it with the jazz ride cymbal. One of the problems with splits is that it is usually a bit tricky to control the relative levels of each instrument. Often you have to hold down a key (or combination of keys) and use a data-entry knob or slider, so two hands and some thinking time is required. Not on the Prokeys 88.

There is a dedicated Split Level slider to adjust the balance of the second sound, the right-hand sound's level being controlled exclusively by the Master Volume. Choosing the layer sound works in the same way as the split sound. When you hit the Layer button, the previously selected sound is called back up and its button flashes for three seconds, during which time you can select another sound if required. Unusually, the Prokeys 88 allows you to have the Split and Layer features active at the same time. Layering only applies to the right-hand side of the Split (in the upper register, where you are much more likely to want two sounds combined, like piano and strings or FM piano and the Jazz Ride cymbal. This means in total you have four different sounds available simultaneously in this one configuration.



Sustain & EQ Fortunately, the dynamic allocation of voices on the Prokeys 88 is pretty amazing. Nowhere in the manual does it say what the polyphony of the instrument is, but I found it pretty difficult to run out of voices, even when using the bundled metal sustain pedal (a particularly nice touch at this price point). I would say that there is a minimum of 32-note polyphony, so that even with layering you can always have at least 16 notes holding, but it feels like more. This is doubtless due to an intelligent voice-stealing algorithm which probably prioritises holding the highest and lowest notice (the most noticeable) rather than just the least recently played. When you use the sustain pedal while changing instruments, you soon notice something pretty amazing. Notes you played with the old Instrument continue to sustain with that timbre, and only new notes use the new Instrument sound. So you can actually have more than four different Instrument timbres sounding simultaneously. You can throw in an electric piano or vibes arpeggio in the middle of a piano/string piece without your sustained piano/string chord being interrupted, all the while keeping the rhythm going with your layered base and ride cymbals in the left hand. There's no sonic strangeness when you change has happened in the new sound actually plays. Of course, the effects sonic indication you have two effects go when the program can be programs, either; the first sonic indication you have that the program can be program can be program and the program can be program and



Program button works in combination with a three-digit number typed in on the keypad or use of the '+' and '' keys to access a specific Program directly, or to step through those available. More unusually, Bank MSB and LSB buttons allow the same with the huge number of program banks that MIDI supports (although not all MIDI devices). Fortunately, the Store button allows the current Program, Bank MSB and LSB numbers to be stored to an Instrument button, so that you can keep up to 14 different external program selections instantly available in you can the top, you can hit Stop twice which returnal program between the tempo in the top, you can this Stop twice which returnal program selections instantly available in you to the start ready for playback. The stop twice which returnal program selections instantly available in you can the stop to the start ready for playback. The stop twice which returnal program selections instantly available in you can the stop to the start ready for playback. The stop twice which returnal program selections instantly available in you can the stop to the start ready for playback. The stop twice which returnal program selections instantly available in you can the stop the start ready for playback. The stop two can the

MIDI Controller Functions Although the stage piano aspect is the Prokeys 88's main raison d'être, you would expect it to behave as a pretty effective controller keyboard as well, given its M-Audio heritage. Although it does not offer the wealth of sliders and knobs for remote MIDI controllers and plug-ins that some of M-Audio's other controllers do, it nevertheless features a dedicated section for MIDI controllers with the ability to generate program changes above and beyond the 14-instrument capability of the internal sounds as well as Start, Stop and Tempo buttons for MIDI/audio sequencer control. The right end of the Prokeys' control panel. Photo: Mark Ewing A dedicated

mod wheels, which is handy. All in all, the Prokeys 88SX makes a fantastic first-time home/stage piano. Personally, I'll always want the extra sounds of the larger Prokeys, plus its ability to combine and control them quickly. That's worth the additional £110 to me, but if you just want piano sounds and basic MIDI control, the 88SX has no rivals at this price point. No Negatives? I found myself playing the Prokeys 88 for hours and coming up with great Split/Layer combinations when I should have been writing this review.

At band rehearsals, the formerly difficult songs which constantly switch backwards and forwards between these sounds in layer mode instead of having to switch at the right moment. So was there anything I wanted to do but couldn't?

Well, it would have been nice to be able to assign the chorus to the left of the split for bass and the reverb to the right (because bass is usually best without reverb) and control the split and layer balances from foot controllers, for those pieces where you really can't spare a hand for a quarter of a second, but I suspect these are both features that could be added in a software update. However, as no other stage piano I have ever come across has these features, it is unfair to complain that the Prokeys 88 doesn't either. My only serious complaint is that when using either of the organ sounds, there is absolutely no way to ramp up the chorus speed from slow to fast and back again in that signature way that Leslie speakers do. Even if you use the Chorus switch to change the speed (which requires two hands but can be done using the Sustain pedal), the switch is immediate, so it doesn't have the glorious effect of the spin up or down. One thing you must not do is use the mod wheel, which is often where manufacturers hide to reach for my laptop with NI B4 or Emagic's EVB3 on it. However, these are pienes that the products. However, these are pienes that the products. However, it retails at several hundred pounds less than its nearest rivals from more established manu

would have nothing but praise for this product even if M Audio had delivered it at a couple of hundred pounds is really extraordinary. ProsUnrivalled ease of use in a difficult stage environment. Great playable sounds with lots of very effective sonic combinations. The effects

and EQ are good without being over-complicated. High-quality sustain pedal included. Amazing value for money. ConsNo 'Leslie spin up/down' available on organ sounds. No knobs or sliders for MIDI control.