

Hughes & Kettner *Metal Shredder / Metal Master*

The controls, switches, jacks etc. of the Metal Shredder (U.S. name)/Metal Master (European name) are nearly identical to those of the Cream Machine and Blues Master/Crunch Master. The instructions for using the Metal Shredder/Metal Master are therefore the same, with the following exceptions:

- The Metal Shredder/Metal Master utilizes a two-stage tube preamplifier. The two stages can be controlled separately by means of the GAIN 1 and GAIN 2 knobs. An infinite number of sound combinations can be attained depending on the relationship between these two knobs, from clean or crunch to heavy overdrive.
- The MID control takes its place in the signal chain before the tube stages and its main purpose is to adapt to the characteristics of the guitar and pickups.
- For the sake of avoiding undesirable distortion in the bass or treble range, the BASS and TREBLE controls are positioned in the signal chain after the tube stages.
- The Metal Shredder/Metal Master has a separate headphone jack (PHONES). This jack is turned ON or OFF with the back panel switch marked Phones.
- The Phones switch serves a second function as well. At the same time that it switches the headphone jack on, it also applies CABINET SIMULATOR circuitry (like in the Hughes & Kettner Red Box) to the signal appearing at the SPEAKER OUT jack. This will give hi-fi speakers or full-range P.A. speakers connected to this jack the sound character of a guitar loudspeaker. **(Warning! If you connect hi-fi, full-range speakers to the SPEAKER OUT jack, make sure you use the Cabinetulator circuitry by pressing in the red Phones switch, or else you might blow your speakers' high-frequency drivers out!)**
- The TUBE AMP VOLUME control determines the overall output level of the Metal Master/Metal Shredder at the SPEAKER OUT, but not does affect the Bypass signal.
- The Metal Master/Metal Shredder has an integral 4½-watt solid-state power amp for connecting a guitar loudspeaker cabinet or – in the manner described above – a hi-fi speaker cabinet.

Bypass function

As with the Cream Machine and the Blues Master/Crunch Master, the BYPASS output signal can be used with or without the Cabinet Simulator circuitry, or switched off completely. In contrast to the Cream Machine and Blues Master/Crunch Master, the internal switches, which set how Bypass works, are as follows:

