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# Behringer inuke nu4-6000 service manual

PA Amplifiers iNUKE NU4-6000 Ultra-Lightweight, High-Density 6000-Watt 4-Channel Power Amplifier Delivers 4 x 1500 Watts into 4 Ohms, 4 x 750 Watts into 8 Ohms and weighs less than 12 lbs. / 5.5 kg Ultimate reliability through revolutionary cool-running High-Density Class-D technology with "near-zero" thermal buildup Ultra-efficient switch-mode power supply for noise-free audio, superior transient response and low power consumption "Zero-Attack" limiters offer maximum output level with reliable overload protection Built-in Subwoofer/Satellite crossover for perfect subwoofer operation Detented and illuminated gain controls for precise level setting Precise 4-segment Signal and Limit LEDs to monitor performance XLR and 1/4" TRS combination input connectors for compatibility with any source Professional twist-lock speaker connectors for ultimate reliability Independent DC, LF and thermal overload protection on each channel automatically protects amplifier and speakers without shutting down the show "Back-to-front" ventilation system prevents thermal buildup for reliable operation High-quality components and exceptionally rugged construction ensure long life Conceived and designed by BEHRINGER Germany The powerful iNUKE NU4-6000 packs four 1500-Watt amplifiers into the space of one. Now you can run your stereo full range mains plus two separate monitor mixes with this one exceptionally lightweight, rack-mountable powerhouse. Or, you may want to operate your subwoofers in bridge mode (3000 W) and run your mid/high packs in mono biamp mode (2 x 1500 W). The highly versatile iNUKE NU4-6000 gives you options, and lots of them. Our revolutionary high-density Class-D technology combined with ultra-efficient switch-mode power supplies ensures these feather-light power amps will drive your rig effortlessly for many years to come. Superb transient response We spent years fine-tuning the high-density Class-D technology that gives the iNUKE Series its oomph. By carefully selecting transistors with extremely high slew rates and optimizing other proprietary parts of our circuitry, these amps react instantly to even the most demanding electronic bass impulses. When this amazing amplifier technology is combined with our state-of-the-art switching-mode power supplies, these amplifiers provide tremendous punch. And because they are so much more efficient than conventional designs, they run cooler and don't require the massive heat sinks and heavy toroid transformers typically associated with their conventional counterparts. Sublimely simple operation The front panel controls and indicators provide your system's vital signs at a glance. After pressing the Power button, the Power LED lights to show the amp is ready for action. All channels feature positive-detent Gain controls with Signal LEDs that light when a signal is present, as well as clip LEDs to indicate when the signal is distorted and you need to reduce the input signal. Continued on next page Thank you for interesting in our services. We are a non-profit group that run this website to share documents. We need your help to maintain this website. To keep our site running, we need your help to cover our server cost (about \$400/m), a small donation will help us a lot. Please help us to share our service with your friends. Page 1 Service Manual iNUKE NU6000DSP Ultra-Lightweight, High-Density 6000-Watt Power Amplifier with DSP Control and USB Interface Specifications .....2 PCB Schematic . Page 2 - Independent DC, LF and thermal overload protection on each channel automatically protects amplifier and speakers without shutting down the show - "Back-to-front" ventilation system prevents thermal buildup for reliable operation - High-quality components and exceptionally rugged construction ensure long life - Conceived and designed by BEHRINGER Germany behringer.com... Page 3 3 iNUKE NU6000DSP PCB Schematic R U B B E R P A D 1 R U B B E R P A D 2 R U B B E R P A D 3 R U B B E R P A D 4... Page 4 4 iNUKE NU6000DSP PCB Schematic + 8 3 V R 1 0 9 R 1 0 8 1 0 k 1 0 k F + 1 2 V 2 C 1 5 4 D 2 5 R 4 8 3 3 0 0 / 1 0 0... 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Page 28 28 iNUKE NU6000DSP Parts List Pcb's Quantity Item Description Reference Designators Notes 1.0000 G40-00000-29006 PCB;2 LAYER;POAEN;4;A;13011;POWER SW [POAEN;04: {1.0}] 1.0000 G42-00000-28155 642;PCB MULTILAYER;POAEJ;1;B;127021;CTRL [POAEJ;01: {1.0}] 1.0000 G42-00000-40219 642;PCB MULTILAYER;POAEO;2;B;115061;AMP [POAEO;02: {1.0}] 1.0000 G40-00000-40217 PCB;2 LAYER;POAEN;3;B;114061;PSU;2OZ [POAEO;03: {1.0}] 1.0000 G40-00000-40217... Page 29 29 iNUKE NU6000DSP Parts List Cable Quantity Item Description Reference Designators Notes 1.0000 A71-18004-06054 CABLE;USB2.0;BLACK;UL2725;COLOR;BLACK;LENGTH:1 800mm +/- 40mm;DIA:4mm;CONNECTORS:USB/B TO USB/A;DOUBLE SHIELDING;MAGNET 1.0000 A77-00000-24200 CABLE;STRANDWIRE;AWG:16;UL1015;2;130 MM;TWO [POAEO;02: {1.0}] 1.0000 A77-00000-24201 CABLE;STRANDWIRE;AWG:16;UL1015;2;180 MM;S/T [POAEN;04: {1.0}] 5mm; 6.3mm AMP-CONNECTOR;TWIST 1.0000 A77-00000-24204 CABLE;STRANDWIRE;AWG:16;UL1015;2;280 MM;TWO... 30 iNUKE NU6000DSP Parts List Quantity Item Description Reference Designators Notes 1.0000 A76-00000-13575 CABLE;AC-CORD;3;AR;1500 MM;Plug + (AR) Connector:321+730;H05VV-F 3G1.0 2.0000 A77-00000-03134 CABLE;STRANDWIRE;AWG:16;UL1672;COMMON;120 [POAEO;03: {2.0}] 0 MM;BLUE;S/T 5mm;6.3mm AMP 1.0000 A76-15060-05755 CABLE;AC - (CCC) CORD;W/POLYBAG;LENGTH:150cm;POLES:3;227 IEC 53 (RVV) 3x1mm2;VERSION:CCC 1.0000 A76-18050-05757 CABLE;AC-CORD;LENGTH:180cm;PLUG:HE105 (SAA) ISOLATED;SAA H05VV-F 3x1mm2;CONN.HP... Page 31 31 iNUKE NU6000DSP Parts List Coil Quantity Item Description Reference Designators Notes 4.0000 B37-00000-23921 COIL;CHOKE;15 uH;POAEN COIL T130-2 [POAEO;02: {4.0}] L:15uH+10%1KHZ,0.25V SG 4.0000 B39-00000-03394 COIL;SMD;BEAD;SMD0805;(BLM21BD751SN1D) [POAEJ;01: {2.0}] [POAEO;02: {2.0}] 1.0000 B40-00000-42961 COIL;TOROID;22 uH;25.8X28.5X12.8 [POAEO;02: {1.0}] MM;RH25.8X28.5X12.8 K4D 1.0000 B40-00000-42962 COIL;TOROID;21 uH;17.5X28.5X9.5 [POAEO;02: {1.0}]... Page 32 32 iNUKE NU6000DSP Parts List Connector Quantity Item Description Reference Designators Notes 2.0000 B80-00000-21788 SPEAKER;H=24mm;with M3 NUT [POAEO;02: {2.0}] 1.0000 B83-00000-12138 USB;B-TYPE;180 DEGREE [POAEJ;01: {1.0}] 2.0000 B95-00000-19168 CONNECTOR;XLR;12;XLR&6.35 COMBO;RIGHT ANGLE [POAEO;02: {2.0}] 5.0000 B84-39000-03120 CONNECTOR;AMP;PCB [POAEO;03: {2.0}] (EU, UL, JP, UK, SAA, CCC, AR, BR1) 1.0000 C11-07030-09902 DIODE;BAV99;SOT23 [POAEO;02: {4.0}] 4.0000 C12-14200-04303 DIODE;ZMM04V3;SMD1206 [POAEO;02: {4.0}] 1.0000 C14-51775-00800 DIODE;BRIDGE;RBV5008;800V;50A [POAEO;03: {1.0}] (EU, UL, JP, UK, SAA, CCC, AR, BR1) 1.0000 C11-20430-00124 DIODE;SUPERFAST;ERJ1;600V;1A;35NS;DO-214AA;SMD [POAEO;03: {1.0}]... Page 34 34 iNUKE NU6000DSP Parts List Quantity Item Description Reference Designators Notes 30.0000 C14-20430-00024 DIODE;SUPERFAST;ES1D;200V;1A;15NS;DO-214AC;SMD [POAEO;03: {2.0}] (P) [POAEO;02: {28.0}] 1.0000 C11-20430-00124 DIODE;SUPERFAST;ERJ1;600V;1A;35NS;DO-214AA;SMD [POAEO;03: {1.0}] 2.0000 C11-08330-44021 DIODE;SUPERFAST;MUR440;400V;4A;60NS;DO-201AD [POAEO;03: {2.0}] 1.0000 C12-14200-18003 DIODE;ZMM18V0;SMD1206 [POAEO;03: {1.0}] 3.0000 C11-20370-00124 DIODE;GP;GS1G;400V;1A;DO-214AC;SMD [POAEO;03: {3.0}] 4.0000 C13-12550-030A2 DIODE;IXYS;DSEP30-04A;400V;30A;TO-247AD... Page 35 35 iNUKE NU6000DSP Parts List Hardware Quantity Item Description Reference Designators Notes 8.0000 F83-04000-00021 CABLE TIE;NYLON;4in;COLOR: 0.3000 F84-03000-01090 SCREWLOCK;SPEC.NO:01090 1.0000 F85-04000-44001 HEX. NUT;INNER DIA;M4mm;SURFACE;ZINC 4.0000 F87-00000-48383 RUBBER;BLACK;POAEN THERMAL RESISTOR PAD [POAEO;02: {4.0}] 4.0000 F88-00000-22569 SCREW;25 (BT);3 MM;7 MM;FLAT;SILVER;PHILIPS REC.;BET3\*7 8.0000 F88-00000-23246 SC;B5\*8;PAN;BLACK... Page 36 36 iNUKE NU6000DSP Parts List Quantity Item Description Reference Designators Notes [POAEO;02: {1.5}] 1.0000 F97-00000-31591 INSULATION SHEET;BLACK;SILICON SLEEVE FOR [POAEO;03: {1.0}] (EU, UL, JP, UK, SAA, BRIDGE;T:0.5mm;UL94V0 CCC, AR, BR1) 0.0500 F95-20005-00000 SHRINKING TUBE;INNER DIA:20mm;THICKNESS:0mm5 [POAEO;03: {0.05}] (EU, UL, JP, UK, SAA, CCC, AR, BR1) 1.0000 F97-00000-31591... Page 37 37 iNUKE NU6000DSP Parts List Quantity Item Description Reference Designators Notes 4.0000 C73-00000-29050 IC;OPAMP;SMD;SOP;8;BA4580RF [POAEO;02: {4.0}] 1.0000 C73-55035-80508 IC;OPAMP;OPAMP;LM358;SOP;8D [POAEO;02: {1.0}] 2.0000 C73-55617-27408 IC;OPAMP;LM6172M;SO;PIN:8 [POAEO;02: {2.0}] 2.0000 C77-00000-19127 IC;VOLT.REGULATOR;DDPAK;3;LM7812 [POAEO;02: {2.0}] 1.0000 C77-00152-03001 IC;VOLT.REGULATOR;78FC33HT1;3V3 120mA;SOT89 [POAEJ;01: {1.0}] 1.0000 C77-03128-03001 IC;VOLT.REGULATOR;NCP1117S3T3T3;SOT223... Page 38 38 iNUKE NU6000DSP Parts List Quantity Item Description Reference Designators Notes 2.0000 D24-16055-57408 IC;MICROCONTROLLER;NE555D;S08 [POAEO;03: {1.0}] [POAEO;02: {1.0}] 1.0000 D30-22002-20108 IC;SWITCH;MULTIPLEX;VIPER22ADIP;DIP-8 [POAEO;03: {1.0}] 1.0000 C78-55133-90514 IC;COMPARATOR;(SGS ONLY);LM339;SOP;SMD [POAEO;03: {1.0}] 2.0000 C74-55031-71403 IC;VOLT.REGULATOR;LM317F;TO220 FULL [POAEO;03: {2.0}] Quantity Item Description Reference Designators Notes 8.0000 E10-00000-25912... Page 39 39 iNUKE NU6000DSP Parts List Metal Part Quantity Item Description Reference Designators Notes 1.0000 A65-00000-19986 METAL;POAEN;FACE PLATE;REV:A 1.0000 A65-00000-22589 METAL;POAEJ;AMP SHIELD [POAEO;02: {1.0}] 1.0000 A65-00000-23557 METAL;POAEN;TOP COVER 1.0000 A65-00000-47081 METAL;POAEN;MN65;SPRING SHEET PSU S 4.0000 A65-00000-47240 METAL;POAEN;MN65;PUNCHING;SPRING SHEET AMP;REV.C,Mn65,T=0.5MM 3.0000 A65-00000-47242 METAL;POAEN;MN65;PUNCHING;SPRING SHEET PSU... Page 40 40 iNUKE NU6000DSP Parts List Plastic Part Quantity Item Description Reference Designators Notes 4.0000 G51-01200-01762 FEET;RUBBER;STANDARD;SELF-ADHESIVE;COLOR;BLK;DWG.NO:01762 1.0000 G52-00000-20109 PLASTIC;POAEJ;ENCODER KNOB;REV:A 1.0000 G52-00000-20110 PLASTIC;POAEJ;LEFT BUTTON;REV:A 1.0000 G52-00000-20112 PLASTIC;POAEM;POWER BUTTON;REV:A 4.0000 G54-00000-20117 PLASTIC;POAEM;VOLUME PET FILM;REV:A 1.0000 G54-00000-0191 PLASTIC;POAEJ;LCD LENS;REV:A 1.0000 G58-00000-20113 PLASTIC;POAEJ;USB COVER;RUBBER;REV.B... 41 iNUKE NU6000DSP Parts List Plug Socket Quantity Item Description Reference Designators Notes 1.0000 G51-65214-03291 BOX HEADER;POLES:14;2 [POAEO;02: {1.0}] ROW;STRAIGHT;PITCH:2mm54;SCM-14S 2.0000 G71-00000-23723 PIN HEADER;DUAL ROW;2\*2;P2.54;H=10mm [POAEJ;01: {2.0}] 1.0000 G71-00000-23725 PIN HEADER;DUAL ROW;2\*5;P2.54;H=10mm [POAEJ;01: {1.0}] 1.0000 G71-23106-04965 PLUG;WAFER;P.2mm;1 [POAEO;02: {1.0}] ROW;STRAIGHT;POLES:06;TYPE:A2006WV-6P 1.0000 G71-23108-04747... Page 42 42 iNUKE NU6000DSP Parts List Raw Material Quantity Item Description Reference Designators Notes 2.5000 E41-50088-50456 HOTMELT;ZL;HS-884 6.5000 E41-60116-04068 GLUE;SUN-DA;SILCONE;SW-116-A [POAEO;03: {4.5}] (EU, UL, JP, UK, SAA, CCC, AR, BR1) [POAEO;02: {2.0}] 6.5000 E41-60116-04068 GLUE;SUN-DA;SILCONE;SW-116-A [POAEO;03: {4.5}] [POAEO;02: {2.0}] Potentiometer Quantity Item... Page 43 43 iNUKE NU6000DSP Parts List Transistor Quantity Item Description Reference Designators Notes 8.0000 J70-20422-74503 TRANSISTOR;IRFB4227PBF;TO220 [POAEO;02: {8.0}] 1.0000 J73-08005-61703 TRANSISTOR;MBTA56;SOT [POAEO;02: {1.0}] 13.0000 J73-16390-46603 TRANSISTOR;MMBT3904LT1;SOT23;SMD [POAEJ;01: {4.0}] [POAEO;03: {3.0}] [POAEO;02: {6.0}] 1.0000 J73-16390-62803 TRANSISTOR;MMBT3906;SOT23;SMD [POAEO;03: {1.0}] (EU, UL, JP, UK, SAA, CCC, AR, BR1) 1.0000 J73-16390-62803... Page 44 44 iNUKE NU6000DSP Exploded Drawing 6 5 4 3 2 1 REVISION HISTORY REV MEI / ECN DESCRIPTION DATE REVISED APPROVED D D 2 4 A04-AEN01-17000 PSU PCB ASSY 2 3 F88-30060-50277 BLACK,M3x6,FLAT HEAD,MACHINE 2 2 A65-09000-25912 FAN GUARD 2 1 F88-00000-23246 M5,BLACK,PLASTIC TAPPING C C 2 0... Page 45 behringer.com...







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