

PROFESSIONAL AUDIO PRODUCTS

A HARTZELL CORPORATION COMPANY
AMBURN INDUSTRIAL PARK, TUALATIN, OREGON 97062

MODEL 2300 and 2400

OPERATIONS MANUAL

CONGRATULATIONS ON YOUR SELECTION OF THE SUNN MAGNA SERIES 2000 MODULAR MIXER. SUNN MAGNA PROFESSIONAL AUDIO PRODUCTS, A DIVISION OF SUNN MUSICAL EQUIPMENT COMPANY, HAS COMBINED YEARS OF EXPERIENCE IN RECORDING AND SOUND REINFORCEMENT WITH CIRCUIT CONCEPTS DEVELOPED FOR STUDIO RECORDING CONSOLES, TO BRING YOU THE SERIES 2000 A PORTABLE, PROFESSIONAL, SELF-CONTAINED MODULAR MIXING SYSTEM.

PROFESSIONAL FEATURES WHICH HAVE BEEN SELECTED BECAUSE THEY PROVIDE THE SOLUTION TO PROBLEMS WHICH ARE ENCOUNTERED UNIVERSALLY ARE THE KEYS TO THIS NO-NONSENSE MIXING SYSTEM. LEFT OUT ARE THE GADGETS, GIMMICKS, AND IMAGINED FEATURES WHICH OTHER MANUFACTURERS USE TO JUSTIFY UNUSUALLY HIGH PRICES BUT WHICH ONLY SERVE TO MAKE GOOD SOUND MANAGEMENT MORE CONFUSING THAN IS NECESSARY.

DISTORTION AND NOISE IN A MIXER ARE TWO INTERRELATED PROBLEMS BOTH CAUSED BY A MISMATCH BETWEEN THE INPUT CIRCUITRY OF THE MIXER AND THE INPUT SIGNAL SUNN'S EXCLUSIVE FAUTO-MATCH" FEATURE ALLOWS YOU TO EASILY STUNE YOUR MIXER'S INPUT CIRCUITRY TO MATCH THE INPUT SIGNAL PERFECTLY, THIS PERFECT MATCHING PROVIDES YOU WITH THE QUIETEST, MOST EFFICIENT, DISTORTION-FREE MIXING SYSTEM POSSIBLE.

OUTPUT OF YOUR ENTIRE SOUND SYSTEM TO BECOME HARSH BLARING AND OUTRIGHT ANNOYING TO LISTEN TO ALL DE THE SUNN MAGNA SERIES 2000 MIXERS ARE EQUIPPED WITH PHASE SYNC TONE CONTROL NETWORKS ON EACH OF THE INDIVIDUAL INPUT CHANNELS TO ASSURE PROPER PHASE RELATIONSHIPS THROUGHOUT AS YOU TURN UP THE TREBLE CONTROL NOTICE THE INCREASED CLARITY AND SIBILANCY TO BE THE FELLOW THE THEORY OF THE THIS SEEMS TOO GOOD TO BE TRUE FRELAX IT ISN'T, OUR GOAL OF AN INEXPENSIVE, HIGH PERFORMANCE MODULAR MIXING SYSTEM WAS ACHIEVED BY COMBINING A UNIQUE MECHANICAL CONCEPT WITH STRAIGHT FORWARD CIRCUIT DESIGN WHICH TOGETHER BEDUCED THE AMOUNT OF HAND WIRING AND THE NUMBER OF ELECTRONIC PARTS REQUIRED THEREBY REDUCING THE TOTAL COST. THIS IS PASSED ALONG TO YOU AS GREATER RELIABILITY, BETTER PERFORMANCE, OVERALL HIGHER QUALITY AND A LOWER PRICE TAG THAN ANY OTHER MIXER IN ITS CLASS.

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PRE AMP OUTPUT IMPEDANCE - 5,000 OHMS

LEVEL -9 V.R.M.S. MAIN OUTPUT IMPEDANCE - 150 OHMS

LEVEL - 6.5 V.R.M.S. MAIN INPUT:

IMPEDANCE - 22,000 OHMS

MAX, SYSTEM GAIN: PHONE JACK - 58 d b XLR CONNECTOR - 78 d b Harris William

Simple Tourist

AUTOR BEST

UTO-MATCH THRESHOLD

UTO-MATCH HEADROOM d b FROM CLIP

A.C. POWER REQUIRED 120 VOLTS A.C. 6 WATTS

DIMENSIONS:

19"W X 14"H X 3.5"D (8 STANDARD RACK SPACES)

SHIPPING WEIGHT: 18 LBS.

WARRANTY-1 YEAR LIMITED

2480 SYSYEM BLOCK DIAGRAM:

sunn MAGNA

LIMITED WARRANTY:

SUNN MUSICAL EQUIPMENT COMPANY WARRANTS THIS NEW PRODUCT TO BE FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP A PERIOD OF ONE YEAR FROM DATE OF PURCHASE TO THE ORIGINAL PURCHASER ACCORDING TO THE FOLLOWING CONDITIONS

THE PURCHASER IS RESPONSIBLE FOR COMPLETING AND MAILING TO SUNN WITHIN 15 DAYS OF PURCHASE THE WARRANTY APPLICA TION ENCLOSED WITH EACH SUNN MAGNA PRODUCT. UPON THE RECEIPT OF THE WARRANTY APPLICATION SUNN WILL ISSUE A WARRANTY VALIDATION STICKER THAT MUST BE AFFIXED TO THE PRODUCT AS INSTRUCTED. IN THE EVENT YOU DO NOT RECEIVE YOUR SUNN MAGNA WARRANTY VALIDATION STICKER WITHIN 60 DAYS FROM MAILING, YOU SHOULD NOTIFY THE FACTORY IN WRITING IMMEDIATELY, PROD-UCTS THAT HAVE NOT BEEN REGISTERED WITHIN 15 DAYS FROM DATE OF PURCHASE ARE NOT COVERED BY THIS WARRANTY. THE PUR-CHASER HAS THE SOLE RESPONSIBILITY FOR COMPLETING AND MAILING THE WARRANTY APPLICATION CARD.

ER HAS THE SOLE RESPONSIBILITY FOR COMPLETING AND MALLING THE LINE THE PURCHASE MUST BE MADE FROM AN AUTHORIZED SUNN MAGNA DEALER.

TUBES AND METERS CARRY A 90 DAY WARRANTY FROM DATE OF PURCHASE.

SPEAKER CABINET COMPONENTS SUCH AS LOUDSPEAKERS AND DRIVERS THAT HAVE BEEN SUBJECTED TO ABUSE AND OVERLOAD CONDITIONS CAUSING FAILURE WILL NOT BE COVERED BY THIS WARRANTY. THE DETERMINATION OF LOUDSPEAKER AND DRIVER ABUSE WILL BE MADE BY SUNN.

A SUNN MAGNA PRODUCT THAT HAS NOT BEEN REGISTERED OR ANY PRODUCT THAT HAS BEEN SUBJECT TO ACCIDENT ALTERATION, RENTAL MISUSE, IMPROPER INSTALLATION, REMOVAL OR DEFACING OF THE SERIAL NUMBER, OR VALIDATION STICKER IS NOT COVERED.

UNDER THIS WARRANTY.

ZÍNSTRUMENT OTHER THAN THE REPAIR OF THE SUNN MÁGNA PRODÚCT SUBJECT TO THE TERMS OF THIS WARRANTY THIS WARRANTY CIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAYE OTHER RIGHTS WHICH VARY FROM STATE TO STATE THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER AGREEMENTS AND WARRANTIES, EXPRESSED OR IMPLIED, EXCEPT AS MAY BE OTHERWISE REQUIRED BY LAW.

THANK YOU FOR CHOOSING SUNN MAGNA TO PERFORM WITH YOU

TURE OPERATION SECTION FOR SPECIFICATION TO AD-MATCH THE INPUTSIONAL TO GET THE NOISE AND DISTORTION, SEE THE FEA. AMOUNTADE BACKGROUND AUTO-MATCH + INDICATOR THIS CONTROL ALLOWS YOU TO TUNE YOUR! MIXER'S INPUT, CIRCUITRY TO INSTITUTE CONTROLLE

CHANNELS LEVEL, CONTROL AND MONITOR NOVIDES 'A SEPARATE MIX FOR THE STAGE MONITORING SYSTEM STEELS OF THE STATE O E CONTRO L'S ANTINITATION DE LA CONTRO L'ANTINITATION DE L SWIX.

EXTERNACION PATCHED EFFECT. SEE BUILT-IN REVERB'SYSTEM AND/OR THE THE SPEATURES OPERATION SECTION AND THE SELECTS CHANNEL AMOUNT VARIATION OF THE THIS CONTROL PROVIDES, INDIVIDUAL

FOR INSTRUCTIONS ON PATCHING.

TIBLEL TOWFEEDBACK, OUR ALL NEW MINTAINING ECANCEL LATION. THIS PHASE CANCELLING CAUSES THE RESULTANDS OUTPLENTO BE HARSH. BLARING MAND PARTICULARLY SUSCEP. HASESTARCE TONE CONTROLS ELIM-HENTHERIE CONTROL NOTICE THE **ONE**独CONTROLS AND LOWER HAR AND ELIM-VIRTUALLY ALLETONE CONTROL CIR. CUITS CURRENTINGING USES EXHIBIT SOME TYPE OF PHASE CANCELLATION. EASEOSCUARITA ANDESIBILANCY OUT OF PHASES YND Z O S NCA

WEEN STERED INCHES, ANY INCHAR LEFT, AND INCHAR LEFT, AND SES, THE CHANNEL PAN (2400 only) WHERE 5450

VOLUME MINISTRATION LEVEL

sunn(6))/MAGNN* 2480

MASTER MONITOR

CONTROLS THE OVERALLS MONITOR SYSTEM, THIS CONTROL IS INDEPEN-DENT OF THE MASTER VOLUME MAIN SYSTEM CONTROL

MASTER REVERB-EFFECTS

CONTROLS THE OVERALL AMOUNT OF INTERNAL RE-PATCHED EFFECT BLENDED WITH THE MAIN SIGNAL.

CONTROLS THE MASTER MAIN

OUTPUT, LEVEL OF THE MAN SYSTEM, (THE 2400 HAS AND LEFT MASTER AND PENDENT CONTROLS MASTER.) The state of the s