SwanPro Amps

RECORDING CLUB SERIES

OWNER'S MANUAL

PROFESSIONAL GUITAR
AMPLIFIER SERIES

INDEX

GETTING STARTED

THANK YOU! FOR YOUR PURCHASE OF AN
RCS MODEL AMPLIFIER

TO OPERATE, JUST TURN ON THE STANDBY SWITCH,THEN THE POWER SWITCH, WARM UP FOR 1 MINUTE AND TURN OFF THE STANDBY SWITCH. YOU'RE READY TO ROCK!

SUGGESTED SETTINGS: USING A 12AX7 IN #2 PREAMP
SETTINGS WILL CHANGE WITH A 12AT7 IN #2 PREAMP (LESS AGGRESSIVE)

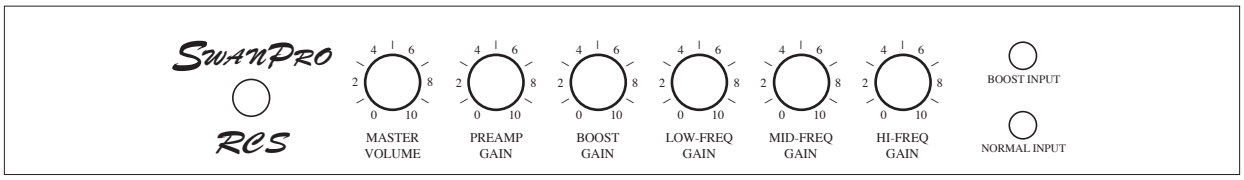
SINGLE COIL PICKUP

LOW VOLUME HARD ROCK:	
MASTER VOLUME	1
PREAMP	10
BOOST	10
LOW FREQ GAIN	5
MID FREQ GAIN	10
HI FREQ GAIN	6
HIGH VOLUME HARD ROCK:	
MASTER VOLUME	10
PREAMP	8
BOOST	1
LOW FREQ GAIN	4
MID FREQ GAIN	10
HI FREQ GAIN	6
BLUES:	
MASTER VOLUME	10
PREAMP	6
BOOST	0
LOW FREQ GAIN	4
MID FREQ GAIN	10
HI FREQ GAIN	6
CLEAN:	
MASTER VOLUME	8
PREAMP	4
BOOST	0
LOW FREQ GAIN	6
MID FREQ GAIN	8
HI FREQ GAIN	7

HUMBUCKER PICKUP

LOW VOLUME HARD ROCK:	
MASTER VOLUME	1
PREAMP	10
BOOST	10
LOW FREQ GAIN	4
MID FREQ GAIN	10
HI FREQ GAIN	8
HIGH VOLUME HARD ROCK:	
MASTER VOLUME	10
PREAMP	7
BOOST	0
LOW FREQ GAIN	4
MID FREQ GAIN	10
HI FREQ GAIN	8
BLUES:	
MASTER VOLUME	10
PREAMP	5
BOOST	0
LOW FREQ GAIN	4
MID FREQ GAIN	10
HI FREQ GAIN	8
CLEAN:	
MASTER VOLUME	8
PREAMP	4
BOOST	0
LOW FREQ GAIN	4
MID FREQ GAIN	8
HI FREQ GAIN	10

FRONT PANEL CONTROL LAYOUT AND OPERATION



1. INDICATOR LAMP-------USES #47 6 VOLT BULB WITH REMOVABLE LENS.

2. MASTER VOLUME------CONTROLS VOLUME OUTPUT OF THE AMPLIFIER

3. PREAMP GAIN----------THIS CONTROLS THE AMOUNT OF GAIN (VOLTAGE) TO THE DRIVER TUBE. THE HIGHER THE GAIN CONTROL THE MORE DISTORTION OCCURS.

4. BOOST GAIN----------CONTROLS THE AMOUNT OF BOOST ON THE FRONT END JUST AFTER THE GUITAR INPUT SIGNAL·

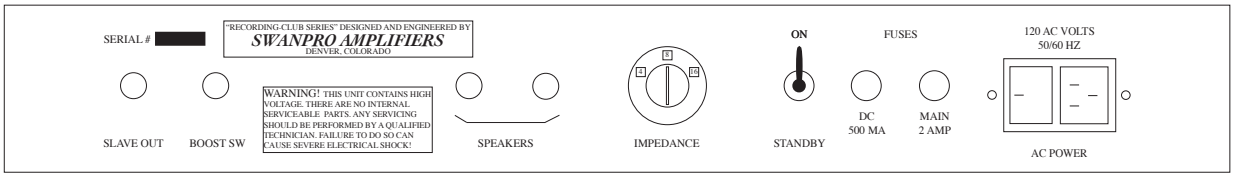
5. LOW-FREQ GAIN--------CONTROLS THE AMOUNT OF LOW FREQUENCY (BASS) ADDED TO THE SIGNAL.

6. MID-FREQ GAIN--------CONTROLS THE AMOUNT OF MID FREQUENCY (MIDRANGE) ADDED TO THE SIGNAL.

7. HI-FREQ GAIN----------CONTROLS THE AMOUNT OF HI FREQUENCY (TREBLE) ADDED TO THE SIGNAL.

8. GUITAR INPUTS---------GUITAR INPUTS CONSISTING OF THE BOOST AND NORMAL INPUTS. THE BOOST INPUT ALLOWS FOR ADDITIONAL GAIN TO BE ADDED ON THE FRONT END OF THE SIGNAL USING THE GAIN BOOST CONTROL. THE NORMAL INPUT BYPASSES THE BOOST CONTROL AND THE ADDTIONAL GAIN STAGE.

REAR PANEL CONTROL LAYOUT AND OPERATION



1. SLAVE OUT-------THIS PROVIDES GUITAR SIGNAL TO THE INPUT OF AN ADDITIONAL AMPLIFIER. ***NEVER USE THIS WITHOUT SPEAKER LOAD ON ANY AMPLIFIER.**

2. BOOST SWITCH----------FOOTSWITCH INPUT FOR BOOST TO TURN ON OR OFF.

3. SPEAKER INPUTS---------- TWO SPEAKER JACKS FOR MAIN AND ADDTIONAL SPEAKER CABINET. ***** **BE SURE TO SET APPROPRIATE IMPEDENCE LOAD.**

4. IMPEDENCE SELECT------ALLOWS FOR CORRECT IMPEDENCE SELECTION. ***** **4 - 8 - 16 OHM**

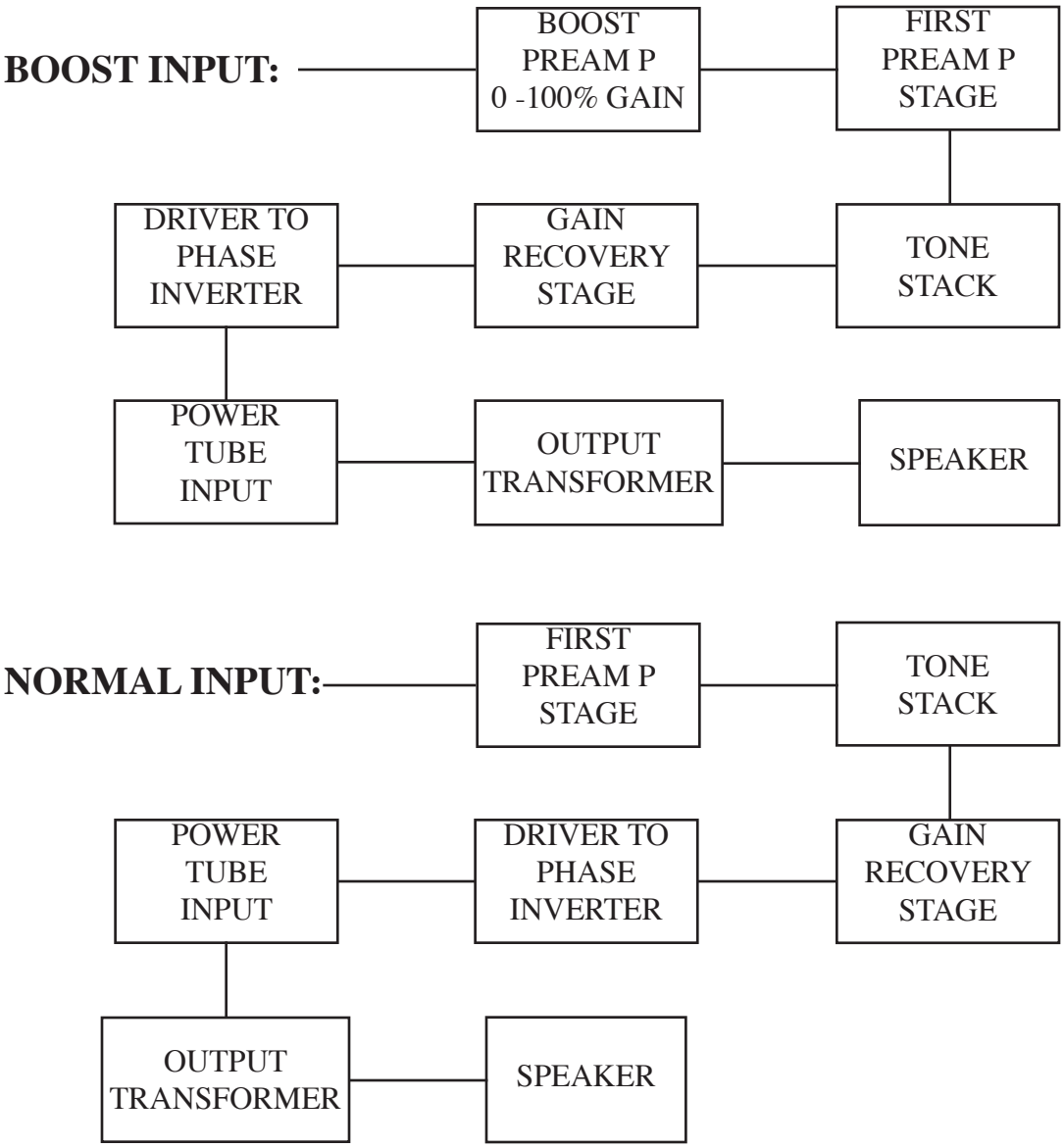
5. STAND BY SWITCH--------CONTROLS B+ VOLTAGE TO THE CIRCUIT BOARD AND TUBES. THIS ALLOWS HEATER CIRCUIT TO LOAD TUBES PROPERLY PRIOR TO RECEIVING HIGH VOLTAGE.

6. HT FUSE 500MA----------PROTECTS TUBES AND CIRCUIT COMPONETS FROM HIGH CURRENT OVERLOAD.

7. MAIN FUSE 2 AMP----------PROTECTS ALL AMPLIFIER COMPONENTS FROM HIGH CURRENT OVERLOAD.

8. POWER MODULE----------AMPLIFIER MAIN ON AND OFF SWITCH. STANDARD IEC POWER CABLE RECEPTICLE.

AUDIO PATH TOPOLOGY



USING THE IMPEDENCE SELECTOR

THE IMPEDENCE SELECTOR MATCHES THE OUTPUT TRANSFORMER'S IMPEDENCE WITH THE SPEAKER LOAD.

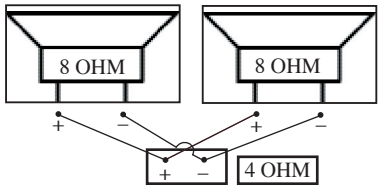
TO MATCH THE IMPEDENCE LOADS HERE ARE SUGGESTED METHODS:

ONE SPEAKER (OHM 4/8/16) MATCH IMPEDENCE SELECTOR (4/8/16) OHM LOAD.

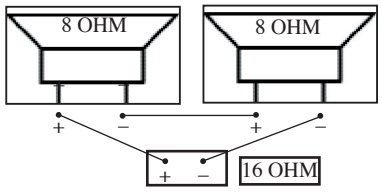
TWO SPEAKERS WIRED IN PARALLEL. (OHM ÷ 2) FOR EXAMPLE; TWO 8 0HM SPEAKERS = 4 OHM LOAD.

TWO SPEAKERS WIRED IN SERIES. (OHM x 2) FOR EXAMPLE; TWO 8 0HM SPEAKERS = 16 OHM LOAD.

PARALLEL WIRING



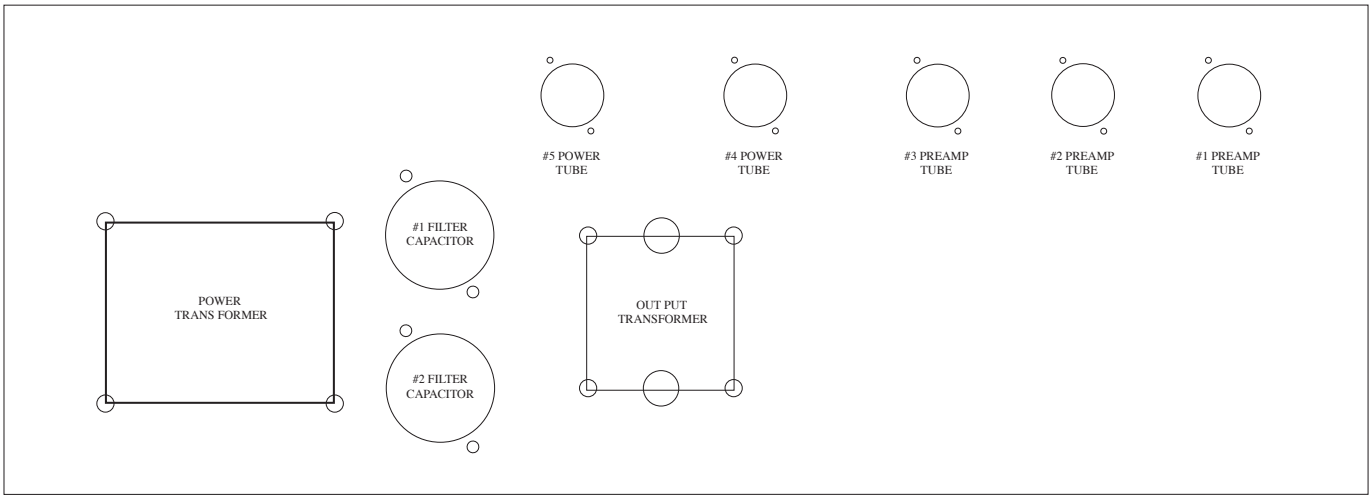
SERIES WIRING



NEVER USE AMPLIFIER WITHOUT A SPEAKER LOAD !

THIS CAN CAUSE DAMAGE TO THE OUTPUT TRANSFORMER AND THE OUTPUT TUBES!

TUBE LAYOUT



TUBE CHART:

PREAMP TUBE #1	12AX7	AC4 CHINESE
PREAMP TUBE #2	12AX7	AC4 CHINESE
PREAMP TUBE #3	12AX7	AC4 CHINESE
POWER TUBE #4	EL 84	TESLA
POWER TUBE #5	EL 84	TESLA

IMPORTANT PLEASE READ:

THIS AMPLIFIER IS SET UP TO BE AGGRESSIVE. IF THIS IS NOT TO YOUR LIKING YOU CAN USE LESS AGGRESSIVE TUBE BRANDS.

YOU SHOULD HAVE RECEIVED A 12AT7 WITH THIS AMPLIFIER UPON ORIGINAL PURCHASE. THIS TUBE CAN BE EXCHANGED FOR ANY PREAMP TUBE POSITION. THIS WILL CHANGE THE GAIN STRUCTURE OF THE AMP IN DIFFERENT WAYS. YOU MAY WANT TO TRY THE #2 PREAMP FIRST, BUT IF THAT ISN'T WHAT YOU'RE LOOKING FOR FEEL FREE TO TRY ALL THE OTHER POSITIONS.

USING SLAVE OUTPUT

THE SLAVE OUTPUT IS DESIGNED TO FEED AN ADDITIONAL AMPLIFIER THE GUITAR SIGNAL VIA THE NORMAL INPUT. THE BOOST INPUT PROVIDES THE ORIGINAL SIGNAL , OR ANY LEVEL OF BOOSTED SIGNAL WHICH ALLOWS THE BOOST FEATURE TO FEED BOTH AMPLIFIERS AT THE SAME TIME, WHICH THEN CAN BE ACTIVATED THROUGH THE FOOT SWITCH.

TO PROPERLY SETUP THE ADDITIONAL AMPLIFIER USE THE FOLLOWING DIRECTIONS:

1. YOU CAN USE THE NORMAL OR BOOST INPUT TO ACTIVATE THE SLAVE OUTPUT. THE BOOST FEATURE WILL ONLY WORK THROUGH THE BOOST INPUT.

2. ON THE SECOND AMPLIFIER YOU MUST USE A GROUND-LIFT ON THE POWER PLUG. THIS WILL AVOID CREATING A GROUND LOOP WHICH IS CAUSED BY THE SECONDARY AMPLIFIER RECIEVING A GROUND REFERENCE FROM BOTH THE SLAVE OUT CABLE AND GROUND AT THE 120 VOLT POWER PLUG. BY USING A GROUND LIFT PLUG ON THE SECOND AMPLIFIER, IT WILL NOW GET ITS GROUND REFERENCE THROUGH THE SLAVE OUT CABLE WHICH WILL TIE BOTH AMPLIFIERS TO THE SAME GROUND POINT.

3. WHEN USING A SWANPRO AMPLIFIER AS A SECOND AMPLIFIER, SIMPLY PLUG THE SLAVE OUTPUT CABLE TO THE NORMAL INPUT. THIS WILL KEEP THE SIGNAL IN PHASE TO THE FIRST AMPLIFIER. IF YOU ARE USING ANOTHER MANUFACTURES AMPLIFIER, IT MAY OR MAY NOT BE IN PHASE. TO CORRECT THIS YOU MAY HAVE TO SWITCH THE SPEAKER WIRE POLARITY BACKWARDS TO GET THE AMPS BACK IN PHASE.

4. SET BOTH AMPLIFIER CONTROLS IDENTICAL AND ADJUST VOLUME TO CENTER THE SIGNAL BETWEEN THE AMPLIFIERS.

NOTE: TO TELL IF YOUR AMPLIFIERS ARE IN PHASE, SPREAD THE AMPS APART AT LEAST 3 OR 4 FEET. CENTER YOURSELF BETWEEN THE AMPLIFIERS AND WHILE PLAYING YOUR GUITAR, LISTEN FOR THE SIGNAL TO BE IN THE CENTER. IF THE SIGNAL IS COMING FROM BOTH AMPS BUT NOT THE CENTER THEN YOU ARE PROBABLY OUT OF PHASE. YOU WILL ALSO NOTICE A LACK OF LOW END.

SPECIFICATIONS

INPUT IMPEDENCE:	1M OHM		
TUBES SELECTION:	THREE 12AX7, TWO EL84		
OUTPUT POWER:	20 WATTS @4, 8, 16 OHMS		
BIAS:	CATHODE		
FUSES:	MAIN	AC	2A
	HT	DC	500MA
SPEAKER:	SWANPRO HI-DEF TRANSDUCER		
DIMENSIONS:	HEAD: 21.5”W X 8.5”H 8.5” D		
	1X12 COMBO:	24”W X 20”H 11” D	
	2X12 COMBO:	28”W X 20”H 12” D	
	1X12 SPK CAB:	24”W X 20”H 11” D	
	2X12 SPK CAB:	28”W X 20”H 12” D	
WEIGHT:	HEAD:	24.5 LBS	
	1X12 COMBO:	48.5 LBS	
	2X12 COMBO:	57.5 LBS	
	1X12 SPK CAB:	32.5 LBS	
	2X12 SPK CAB:	41.5 LBS	
FOOTSWITCH:	STANDARD ON/OFF FOR BOOST		

WARRANTY

SWANPRO AMPLIFIERS ARE WARRANTIED TO THE ORIGINAL OWNER AGAINST FAILURE OF PARTS/MATERIALS AND WORKMANSHIP FOR ONE YEAR FROM THE DATE OF PURCHASE. EXCLUDING TUBES, WHICH ARE WARRANTIED FOR 90 DAYS. THIS WARRANTY APPLIES ONLY IF THIS AMPLIFIER IS NOT DAMAGED BY MISUSE, ACCIDENT, OR UNAUTHORIZED REPAIR OR MODIFICATION.

TO VALIDATE YOUR WARRANTY YOU MUST COMPLETE THE WARRANTY CARD, MAIL WITH YOUR AUTHORIZED DEALER RECIEPT TO SWANPRO AMPLIFIERS WITHIN 15 DAYS FROM PURCHASE.

SWANPRO RESERVES THE RIGHT TO MAKE ANY DESIGN CHANGES WITHOUT NOTICE OR OBLIGATION TO INCORPORATE THESE CHANGES IN PRODUCTS PREVIOUSLY PURCHASED.

SHOULD A WARRANTABLE PROBLEM OCCUR, IT IS THE OWNERS RESPONSIBILTY TO COVER ALL SHIPPING COSTS TO SHIP THE PRODUCT TO SWANPRO. SWANPRO WILL COVER THE COST OF SHIPPING BACK TO THE OWNER IN THE U.S. YOU SHOULD CONTACT US FIRST TO SEE IF WE CAN HELP WITH A QUICK SOLUTION WITHOUT HAVING TO SHIP THE AMPLIFIER BACK TO US FOR REPAIR THUS AVOIDING THE COST AND HASSLE OF SHIPPING. **ANY PRODUCT TO BE SHIPPED TO SWANPRO FOR REPAIR WILL REQUIRE A RETURN SHIPPING AUTHORIZATION FIRST!**

DUE TO SHIPPING REQUIREMENTS SWANPRO AMPS IS NOT RESPONSIBLE FOR ANY SHIPPING DAMAGE TO PRODUCTS SHIPPED IN NON-ORIGINAL BOX AND MATERIALS.

WARRANTY CARD

NAME_____PHONE #_____

ADDRESS_____E-MAIL_____

CITY_____STATE_____

PRODUCT PURCHASED_____

_____

SERIAL #_____

DEALER_____PURCHASED DATE_____

CONTACT INFORMATION

SWANPRO AMPLIFIERS
32372 BLACK WIDOW DR.
CONIFER, COLORADO 80433
303-692-1043

CONTACT BOB SWANSON

E-MAIL ADDRESS
bob@swanproamps.com

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SWANPRO AMPLIFIERS
32372 BLACK WIDOW DR.
CONIFER, COLORADO 80433