

KRIS 600 SB LINEAR AMPLIFIER

INSTRUCTION MANUAL



KRIS
KRIS
KRIS INC.

KRIS 600 SSB

INSTALLATION AND TUNE UP

Adequate ventilation is a must. Allow proper warm up time (45 seconds) Connect antenna to Coax Connector marked Antenna. Connect Driver transmitter (transceiver) to Coax connector marked transmitter. The Kris 600 SSB should not be driven with more than 3 watts for maximum life and efficiency. Load unit into a 50 ohm antenna. Tuning should be done quickly, adjusting drive, tune and load controls for maximum meter and output light indication. Recheck tuning a few times, as there is some interaction between controls.

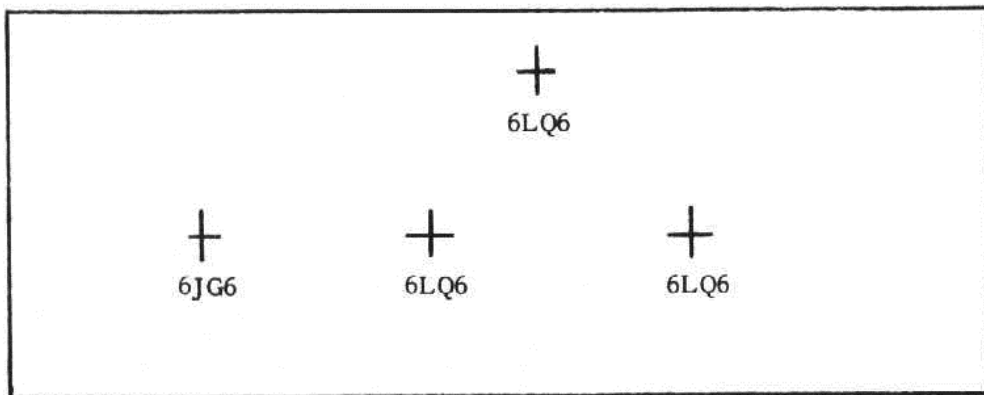
It is a must that these controls be kept tuned to maximum. Maximum means resonance. Rechecking the tuning at the start of each operation is wise, because controls could have been accidentally bumped off resonance or maximum. Once controls have been peaked and repeaked to maximum, no further adjustment is necessary.

The more exact you are in tuning, the more you will lengthen the life of your amplifier. The meter

located on the front panel is a relative output meter and is used for tuning purposes only.

In some areas, line voltages are higher than 120 VAC. In such cases of high input voltage, the plate dissipation of the tubes will be far in excess of rated value. The result, shortened tube life, arcing tubes, blown fuses, blown diodes, blown filters, and in cases where units have been overfused, the power transformer itself can be blown out. Occasionally there will be no indication on the meter, but the red light will glow properly. Usually this is caused by a mismatch in the antenna system.

Do not attempt to operate under these mismatched conditions or severe damage to the unit will result, as the great amount of R.F. produced by the Kris 600 SSB will have nowhere to go, except to circulate within the unit itself. The resultant heat rise will cause severe damage to all components. Use extreme caution when attempting service, as the voltages therein are lethal.



Tube Layout - 600SSB

IMPORTANT NOTICE

DO NOT ATTEMPT TO OPERATE YOUR LINEAR AMPLIFIER OR MAKE ANY CONNECTIONS UNTIL YOU HAVE READ THIS MANUAL AND UNDERSTAND YOUR AMPLIFIER FULLY.

KRIS LINEAR AMPLIFIERS HAVE BEEN DESIGNED AND MANUFACTURED WITH CARE. THEY HAVE BEEN TESTED PRIOR TO SHIPMENT TO PERFORM AS SPECIFIED.

IMPROPER OR FAULTY INSTALLATION OR MODIFICATION TO THE AMPLIFIER IS HAZARDOUS AND MAY RESULT IN IRREPLACEABLE DAMAGE AND/OR PERSONAL INJURY.

Warranty Registration

Fill in the enclosed Warranty Registration Card and mail it to Kris. Your warranty will be void unless this card is on file.

Standard Warranty

Adopted and Recommended by the Electronics Industries Association.

Kris, Inc. warrants each new electronic product manufactured by it to be free from defective material and workmanship and agrees to remedy any such defect or to furnish a new part, in exchange for any part of any unit of its manufacture which under normal installation, use and service disclosed such defect, provided the unit is delivered by the owner to us or to our authorized radio dealer or wholesaler from whom purchased, or authorized service station, intact, for our examination, with all transportation charges prepaid to our factory, within 90 days from the date of sale to original purchaser and provided that such examination discloses, in our judgment that it is thus defective.

This warranty does not extend to any of our electronic products which have been subjected to misuse, neglect, accident, incorrect wiring not our own, improper installation, unauthorized modifications, or to use in violation of instructions furnished by us, nor extends to units which have been repaired or altered outside of our factory, nor to cases where the serial number thereof has been removed, defaced or changed,

nor to accessories used therewith not of our own manufacture. This warranty does not cover tubes.

This warranty is in lieu of all warranties expressed or implied and no representative or person is authorized to assume for us any other liability in connection with the sale of our electronic products.

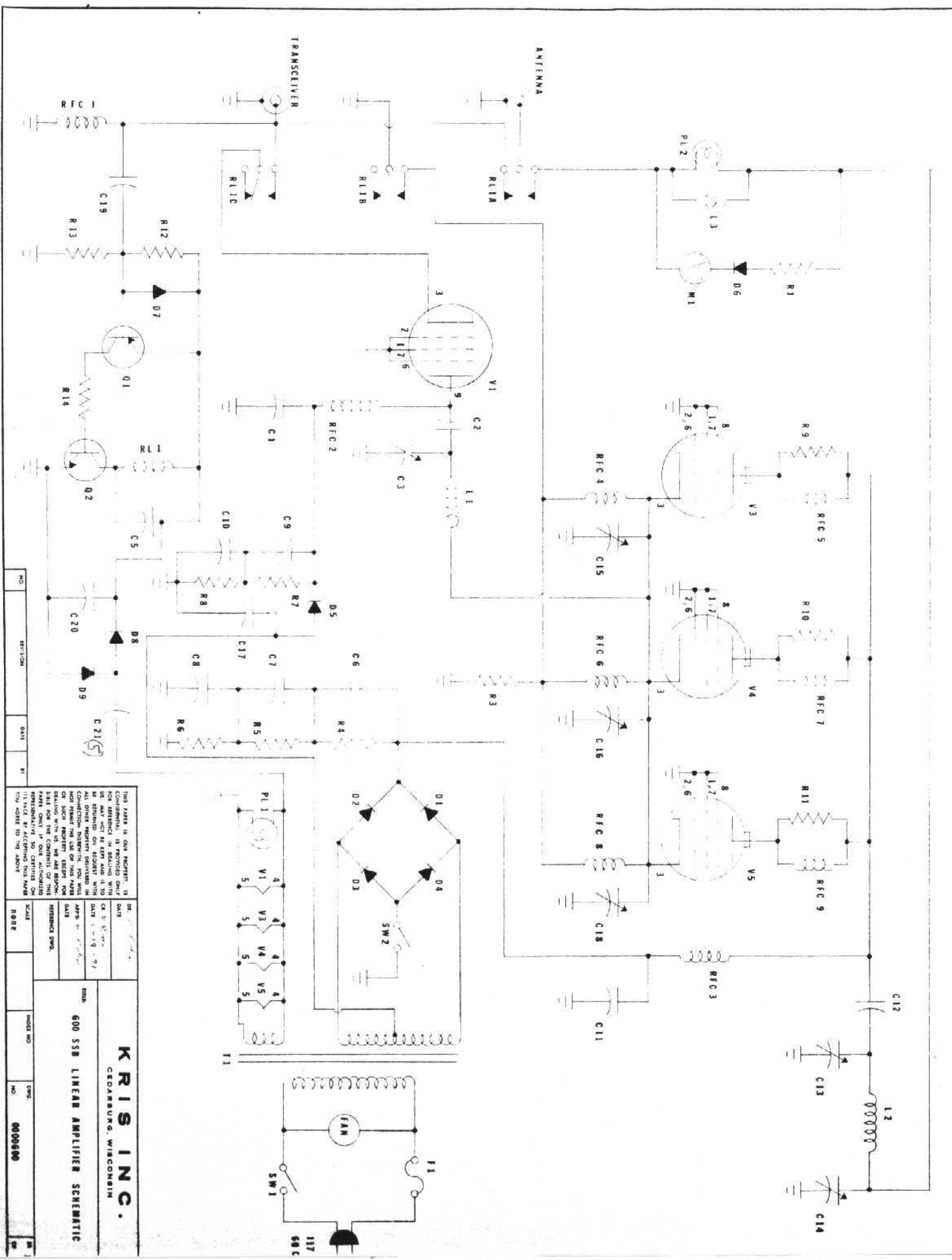
Radio receivers may be adversely affected by ignition noise from the vehicle in which they are installed or from passing vehicles. No warranty as to the performance of these equipments is expressed or implied when operating under conditions of external ignition or other electrical interference.

Note: These linear amplifiers have been designed to suppress spurious radiation that may cause television interference. There are, however, some types of TVI that cannot be prevented within the amplifier. This is particularly true in weak signal areas. In such cases, a good commercial low-pass filter is recommended. In severe cases, usually in low television signal areas, it may be necessary for a TV repairman to install a high-pass filter on the affected TV set.

IT IS A VIOLATION OF THE FCC RULES AND REGULATIONS TO USE THIS POWER AMPLIFIER IN ANY RADIO SERVICES EXCEPT THOSE UNDER PARTS 89, 91 and 93 OF THE COMMISSION RULES. THIS AMPLIFIER MUST BE DRIVEN OR EXCITED BY A TYPE-ACCEPTED TRANSCEIVER. KRIS, INC. ASSUMES NO LIABILITY FOR IMPROPER OR ILLEGAL USE IN SERVICES OTHER THAN THOSE AFOREMENTIONED.

PARTS LIST -- 600SSB

<u>SYMBOL</u>	<u>DESCRIPTION</u>	<u>PART NO.</u>
R1	82K, $\frac{1}{2}$ W	1018232
R3	1K, 2W	1031023
R4-5-6	100K, 2W	1031043
R7-8	100K, $\frac{1}{2}$ W	1011043
R9-10-11-12	330, 1W	1013313
R13	15K, $\frac{1}{2}$ W	1011532
R14	3.3K, $\frac{1}{2}$ W	1013323
C1-2-4-11-12-17	.001 mfd/3K	1201001
C5	10 mfd/450	1203003
C6-7-8	30 mfd/500	1202002
C14	V2393	1301001
C3-13	V2394	1301002
C15-16-18	463	1302001
C19	15pf	1023313
C20-21	500 mfd/15	1203004
D1-2-3-4-5	1500 PIV/1 A	1800005
D6	1N3064	1800008
D7	1N4148	1800009
D8-9	1N4001	1800006
Q1	40841	1700016
Q2	3702	1700001
V1	6JG6A	2900002
V3-4-5	6LQ6	2900004
T1	XFMR 93P-11	1402004
RFC1	192 uh	1500004
RFC2	3.6 uh	1500003
RFC3	8.3 uh	1500005
RFC4-6-8	100 uh	1500002
RL1	3PDT 115V	1900003
M1	0-500	2100001
SW1	SPST	2600001
SW2	DPDT	2600002
Fan	Fan	9112001



NO.	REVISION	DATE	BY

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DATE	BY	SCALE	PROJECT NO.	DWG. NO.

KRIS INC.
CEDARBURG, WISCONSIN

600 SSR LINEAR AMPLIFIER SCHEMATIC

NO. 1
0000800