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GB4000

SR-4 AMP

MOPA

	GB 1000	JIV T / VIVII	1410171
RF OR EM METHOD	RF Method. Used in original machines	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode	RF Method. Used in original machines
FREQUENCY RANGE IN	20,000,000 MHz	20,000,000 MHz	20,000,000 MHz
•	(1 to 20 million Hertz)	(1 to 20 million Hertz)	(1 to 20 million Hertz)
HERTZ MODULATION FREQUENCY	1 to 400,000 Hertz at	1 to 400,000 Hertz.	1 to 400,000 Hertz at
RANGE	100% AM modulation.	1 to 400,000 Hertz.	100% AM modulation.
RF CARRIER SINE WAVE	Fixed 3.1 MHz.	Outputs whatever the GB-4000	Variable.
KI CARRIER SINE WAVE	(3,100,000 Hertz)	outputs from 1 to 15-watts in RF	2.2 MHz to about 3.8 MHz.
	(8)200,000	Mode	
DIGITALLY PRODUCED	All frequencies are converted to	Outputs whatever the GB-4000	M.O.P.A. RF carrier is analog.
ANALOG FREQUENCIES	analog before they are output from	outputs from 1 to 15-watts in RF	It outputs whatever the GB-4000
	the generator.	Mode	outputs when connected to it.
PLASMA TUBE REFLECTOR	N/A	N/A	YES
PLASMA TUBE GAS	N/A	N/A	Argon.
			Lights instantly.
PLASMA TUBE LONGEVITY	N/A	N/A	Indefinite lifespan.
			Plasma tube will never burn out.
PLASMA TUBE RANGE	N/A	N/A	WITHOUT REFLECTOR
			30 feet (10 meters) 360° degrees.
			WITH REFLECTOR
			40 feet (13 meters) 180° degrees.
SUGGESTED PLASMA TUBE	N/A	N/A	1 inch to 12 feet.
RANGE			
GREATEST POWER	Direct contact.	Direct contact.	1 inch to 2 feet.
ABSORPTION RANGE			
USEFUL RANGE DEFINITION	NIA	NIA	Physiological effects with at least 0.11
	Direct contact.	Direct contact.	watts of energy at 30 feet based on the
			"Inverse Square Law" calculations.
			inverse square Law Calculations.
POWER	Variable, 2 modes.	Variable	Variable.
OUTPUT LEVEL AND SAFETY	Audio Mode 0.75-watts. (38 VPP) RF	1-watt to 15-watts in RF Mode.	The user can adjust the power
	Mode 4.7-watts. (115 VPP) The user		output from less than 20-watts to
	has complete control over the output intensity.		190-watts output.
		Floring	N/A
AUDIO CONTACT METHOD	Electrodes	Electrodes	I IVA
AUDIO CONTACT METHOD	Electrodes (Metal hand cylinders, footplates)	Electrodes (Metal hand cylinders, footplates)	N/A
AUDIO CONTACT METHOD RF CONTACT METHOD			N/A

OUTPUT FRACTIONAL FREQUENCIES	0.01 resolution. A higher resolu-tion is only needed by lower frequency range instruments	Outputs whatever the GB-4000 outputs when connected to it.	Outputs whatever the GB-4000 outputs when connected to it.
OUTPUT AUDIO FREQUENCIES	YES	Outputs whatever the GB-4000 outputs when connected to it.	Outputs whatever the GB-4000 outputs when connected to it.
OUTPUT SINGLE FREQUENCIES	YES	Outputs whatever the GB-4000 outputs when connected to it.	Outputs whatever the GB-4000 outputs when connected to it.
MULTI-SIGNAL OR RUN MULTIPLE AUDIO FREQUENCIES SIMULTANEOUSLY	The only instrument capable of running 1 to 8 frequencies simul-taneously to 40,000 Hertz without frequency degradation. One other company can run 3 frequencies but you have to purchase 2 additional generators at \$1200 each.	Running up to 8 frequencies simultaneously makes it up to 8 times faster to use than any other instrument. Why waste your time running one frequency at a time when you can run up to 8 frequencies at a time. It's like getting 8 frequency generators for the price one.	Running up to 8 frequencies simultaneously makes it up to 8 times faster to use than any other instrument. Why waste your time running one frequency at a time when you can run up to 8 frequencies at a time. It's like getting 8 frequency generators for the price one.
OUTPUT MULTIPLE RF FREQUENCIES SIMULTANEOUSLY	2 RF frequencies from 40,001 Hertz to 20 MHz. (40,0001 to 20 million Hertz	Outputs whatever the GB-4000 outputs when connected to it.	2 to frequencies from 40,001 Hertz to 20 MHz. (40,001 to 20 million Hertz)
ADDITIONAL POWER TO RUN SIMULTANEOUS FREQUENCIES	With its 4.7-watts output, it is 4 7 times more powerful than the standard 1/10th (0.10) of 1-watt power level used by our competitors.	Up to 15-watts.	Additional 115-watts.
PROGRAMABLE CHANNELS	2,000 of which 883 are preprogrammed. Over 8,000 f requency sets are available.	Outputs whatever the GB-4000 outputs when connected to it.	N/A
RUN PROGRAMED CHANNELS CONSECUTIVELY	2 to 1 O can be daisy chained to run one after another for over night use.	Outputs whatever the GB-4000 outputs when connected to it.	Outputs whatever the GB-4000 outputs when connected to it.
DISPLAYS ACTUAL FREQUENCIES	YES	NO	Buil t in frequency counter.
FREE SOFTWARE TO CREATE AND UPLOAD CUSTOM PROGRAMS	YES	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	N/A
WAVEFORMS	Sine, Square, Pulsed Square Width and Hoyland.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
OTHER WAVEFORMS	Ad ditional waveforms such as Triangle, Trapezoid, Ramp Up and others are unproven waveforms never used in the original instruments. Therefore we do not use them.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
SQUARE WAVE DUTY CYCLE	Variable from 10% to 100%.		Outputs whatever the GB-4000 outputs when connected to it.
GATING OR PULSING	1 to 5000 Hertz covering the full 20 million Hertz frequency range of the GB-4000.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.

GATING OR PULSING DUTY CYCLE	Variable from 10% to 90%.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
FREQUENCY SWEEPS WITH USER DEFINED RANGES	1 to 20 MHz. (1 to 20 million Hertz	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
CONVERGE SWEEPS WITH USER DEFINED RANGES	2 frequency sweeps with the start frequency sweeping to the end frequency and the end frequency sweeping to the start frequency. (Range 1 to 20 million Hertz)	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
CHANNEL SWEEPS	2 to 20,000 Hertz. Works within channels or single frequencies.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
HARMONIC SIDEBAND FREQUENCIES 20 TO OVER 100 SIMULTANEOUSLY	YES	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	The M.O.P.A. RF section is a replica of the 1936/1950 original instrument. It had this capability.
SIDEBAND SWEEPS 20 TO OVER 100 SIMULTANEOUSLY.	Only at the Fixed RF 3.1 MHz carrier. Sideband range from about 2.6 to about 3.6 MHz.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Variable carrier wave makes larger sideband sweeps possible from about 1.7 MHz to 4.3 MHz. No other plasma tube instrument has this capability.
PRODUCES HARMONICS	Square wave, Sideband and mixed high frequency harmonics	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Produces its own plus runs whatever the GB-4000 does if connected to it.
OUTPUT ALL RIFES FREQUENCIES DIRECTLY	We produce them directly instead of through harmonics like limited frequency range instruments do.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	The GB-4000 & M.O.P.A. can output ALL of them directly or through harmonics whichever you choose.
OUTPUT 1950s AUDIO FREQUENCIES	1 Hertz to 2200 Hertz.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
OUTPUT 1930s AUDIO FREQUENCIES	1 Hertz to 42,500 Hertz.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
OUTPUT 1930s RF FREQUENCIES	139,200 Hertz to 1,607,450 Hertz.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
OUTPUT RIFE / HOYLAND 1936/1939 FREQUENCIES	About 2.7 MHz to 3.4 MHz range. These are higher octave frequencies of the 139,200 to 1,607,450 range.	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.
OUTPUT 1920s FREQUENCIES	4 MHz to 20 MHz. (4 million to 20 million Hertz)	Outputs whatever the GB-4000 outputs from 1 to 15-watts in RF Mode.	Outputs whatever the GB-4000 outputs when connected to it.

МОРА With the GB-4000 and M.O.P.A., these frequencies can be produced in five different ways. MORTAL OSCILLATORY RATE 1.Directly which is the best method. 2. Mixing two frequencies to produce harmonics. (MOR) 3. Through harmonic sidebands like the original 1936/1939 machine did. 4. The M.O.P.A. variable RF carrier frequency can also be put on a higher octave frequency (1,607,450 X 2 = 3,214,900 Hertz) of the frequencies in the 139,200 Hertz to 1,607,450 Hertz frequency range. By using the RF carrier frequency as the MOR the carrier frequency then becomes the MOR. No other instrument has this capability. 5. Through square wave harmonics using low audio frequencies. Square wave harmonics from low audio frequencies work very well for many differ-ent things. But when a low audio frequency under 30,000 Hertz is used the harmonics will not reach the higher frequency ranges as claimed by many instrument builders. This method is promoted to work just as well as the oth-er 4 methods because it is the easiest circuit to build. But it is also the least efficient method to use to try and produce the original high RF frequencies. SR-4 With the GB-4000 & SR-4, these frequencies can be produced in four ways. MORTAL OSCILLATORY RATE 1. Directly which is the best method. 2. Mixing two frequencies to produce harmonics. (MOR) 3. Mrrough harmonic sidebands like the original 1936/1939 machine did but only with the SR-4 with 15-watts because this power level is needed. 4. Through square wave harmonics using low audio frequencies that work very well for many different things. But when a low audio frequency under 30,000 Hertz is used the harmonics will not reach the higher RF ranges as many instrument builders claim. This method is promoted to work just as well as the other 3 methods because it is the easiest circuit to build. But it is also the least efficient way to try and produce the original high frequencies. **FACTORY TESTED AND** YES Tested to make sure the input frequency is the same frequency **CALIBRATED** output from the plasma tube. **MANUFACTURED** Built in the U.S.A. by Built in the U.S.A. by Built in the U.S.A. by AAA Production Inc., to our high-AAA Production Inc., to our high-AAA Production Inc., to our highquality standards. quality standards. quality standards. PROVEN DESIGN Solid-state electronics. Solid state and Vacuum tube design combined. The vacuum tube design has been used for over 80 years now and makes the variable RF carrier possible. 8" W X 9.5" L X 4" H. 2 pounds 10.5" X 17" L X 1 O" H. 19 pounds. SIZE AND WEIGHT **POWER USAGE** The GB-4000 power usage is The SR-4 1 to 15-watt amplifier The M.O.P.A. power usage is approximately 25 watts and uses two power usage is approximately 40 approximately 450 watts and can be 9 volts 1.6 amp. switching (110/220 watts and uses one 24 volts 2.5 amp built for either 110 or 220 volts AC. volts AC) power supplies. switching (110/220 volts AC) power supply. WARRANTY We have a standard 2-year parts and labor warranty. The customer pays for return shipping to the manufacturer.

PLASMA TUBE MANUFACTURE

We use a separate company to make our plasma tube. But we designed and built our plasma tube to specifically match the circuit output of the M.O.P.A. for maximum power output. Our plasma tube is not built into the M.O.P.A. chassis like some companies, but it has 5 foot leads so that the user can have it as close as they want to use it. we ignite it using the "Induction- method. One of our competitors incorrectly claims this method lacks RF in-tegration and deep penetration. They incorrectly believe it takes a great deal of power to ignite the plasma gas through the glass tube. Apparently, they have never tested this method, but we did before we made the decision to use it. Since the M.O.P.A. has a variable power output it can be turned all the way down until the plasma tube goes off. The plasma tube will stay lit with only 2 to 3 milliamps of power as shown on the built-in milliamp meter.

This proves it takes no more than about 1 ½ watts of energy to go through the Pyrex glass to ignite the gas.

Therefore, there is virtually no power loss igniting the plasma tube using the "Induction method. Any owner of the GB- 4000 and M.O.P.A. can do this test and verify this fact.

GOT ANY QUESTIONS?
Please call William on 022 6009004