PAARA radios

There will be a silent auction at the December meeting to auction off this equipment. Radio packages will be sold as a package and not the individual parts. Most don't have microphones which limited testing to receive only. They were all working when collected from SK's shacks but are being sold as is. The minimum bid is ~ ¼ of the current internet prices shown. All include manuals.

Kenwood TS-820S Package:

TS-820S Transceiver - missing switch bat handle, powers up, no mic — Ebay w/MC-50 \$260

Kenwood SP-230 speaker- unknown functionality - Ebay \$69

Kenwood AT-230 antenna tuner– unknown functionality — Ebay \$100 ~ \$325

Kenwood VFO-240- unknown functionality but likely works, for use with the TS-

530S or TS-830S— Ebay \$50 — Total \$480 minimum bid \$120





TS-820S SPECIFICATION

FREQUENCY RANGE	80 met 40 met 20 met 15 met 10 met 10 met	er band — 3.5	0 to 0 to 0 to 1 0 to 2 0 to 2 0 to 2 0 to 2	21.45 MHz 28.50 MHz (A 29.00 MHz (B 29.50 MHz (G	3) C)	
	WWV	- 15.0	MHz ((receive only)		
MODE	USB, LSE	3, or CW, FSK				
POWER REQUIREMENTS			VAC, 50/6			DC operation
	Receive	TS-820S 57 watts (heaters on)	45	TS-820 watts (heaters on)	TS-820S 6A (heaters on)	TS-820 5A (heaters on)
	Transmit	38 watts (heaters off) 292 watts	201	watts (heaters off) 280 watts (maximum)	1.4A (heaters off) 16A (Maximum)	0.6A (heaters off) 15A (maximum)
		(maximum)		(maximum)	(Maximum)	(maximum)
PLATE POWER INPUT	200 wat 160 wat	VAC, 50/60 Hz oper ts PEP for SSB opera ts DC for CW operat ts for FSK operation	ition	120 watts PEP f	operation for SSB operation or CW operation SK operation	
AUDIO INPUT IMPEDANCE	50 k ohm	ıs (high impedan	ce)			
AUDIO OUTPUT IMPEDANCE	4 to 16 o	hms (speaker or	headpl	hones)		
AUDIO OUTPUT	. More than 1.5 watts (with less than 10% distortion) into an 8 ohm load.					ohm load.
RF OUTPUT IMPEDANCE	$50 \sim 75$	ohms				
FREQUENCY STABILITY	Within 100 Hz during any 30 minute period after warmup Within ± 1 kHz during the first hour after 1 minute of warmup					mup
AUDIO FREQUENCY RESPONSE	400 to 20	600 Hz, within -	- 6 db			
CARRIER SUPPRESSION	Carrier be	etter than 40 db	down f	from the outpu	ut signal	
SIDEBAND SUPPRESSION	Unwante	d sideband is be	ter tha	an 50 db dowr	n from the outpu	it signal
IMAGE RATIO	Image fr	equency better	than 6	60 db down f	rom the output	signal
HARMONIC RADIATION	Better the	an 40 db down f	om ou	ıtput signal		
SPURIOUS RADIATION	Better the	an 60 db down f	om ou	itput signal (w	vithout harmoni	c radiation)
IF REJECTION	IF freque	ncy is 80 db or n	nore do	own from outp	ut signal	
RECEIVER SENSITIVITY	0.25 µV	S+N/N 10 db	or m	ore		
RECEIVER SELECTIVITY	SSB: CW*:	4.4 kHz band 0.5 kHz band	lwidth Iwidth	(-6 db dow (-60 db do (-6 db dow (-60 db do	wn) n)	
				V filter install		
TUBE AND SEMICONDUCTOR COMPLEMENT	Tubes IC'S FET'S Transisto Diodes		3 38 31 95 195	5	TS-820 3 5 30 74 167	
DIMENSIONS	13.2″ wi	de × 5.9″hiah	× 13	.2″ deep		
WEIGHT						



1. Antenna Coupler Frequency range:

> Input impedance: Output impedance: Through power: Insertion loss:

PROVISO: Output impedance: Through power:

2. Wattmeter

Type: Frequency range: Measurable RF power: Measurement mode:

1.8 to 30 MHz. Up to 20/200 W, switched. Forward or reflected power switched. 50 Ω Better than ± 10% of full scale.

9 amateur bands from 1.8

10 to 500 Ω, unbalanced.

20 to 500 n, unbalanced

Through-line wattmeter.

to 29.7 MHz.

200 W at max.

optimum match

1.8 MHz only

100 W at max.

Less than 0.5 dB at

50 n

3. SWR Meter

Impedance:

Accuracy:

SWR detection: Toroidal core direction coupler. Measurable range: 1.1 to 10. Min. power required: 4 W.

4. General

Connectors,	INPUT:	UHF type, 50 Ω
Connectors,	ANT-1:	UHF type.
	ANT-2:	UHF type.
	ANT-3:	Wire antenna only.
	GND:	Stud for grounding
Dimensions:		H 133 mm (5-1/4")
		W 180 mm (7-1/16")
		D 287 mm (11-5/16")
Net weight:		3.4 kg (7.5 lbs) approx.

Note: Circuit and ratings are subject to change without notice due to developments in technology.



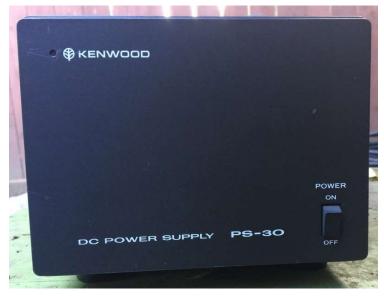
SPECIFICATIONS

Oscillator frequency	5.50~6.00 MHz
Oscillator circuit	Clapp
Output voltage	
Frequency stability	Within 100 Hz per 30 minutes after 3 minutes warm-up
	(at room temperature)
Solid-state complement	FET: 2
	Transistor: 2
	Diode: 6
Power source	From TS-530S or TS-830S
Dimensions	180 (7-1/8") W × 133 (5-1/4") H × 288 (11-5/16") D mm
	(inch)
Weight	2.9 kg (6.4 lbs)
* Specifications are subject to change for i	mprovement without notice.

Kenwood TS450S Package

TS450S transceiver — Ebay \$300, Kenwood PS-30 Power supply — Ebay \$135 & Kenwood SP-180 Speaker – Ebay \$69 — works, no mic — **Total \$504 minimum bid \$125**





2. SPECIFICATIONS AND ACCESSORIES

2-1. SPECIFICATIONS TS-450S

0-	4505	abox needs	mobil		1000 D 000					
						Speci	fications			
	Mode			J3E(LSB, USE F1A(FSK)	5), A1A(0	CW), A3E	(AM), F	F3E(FM),		
	Memory Channels			100						
	Antenna impedance			50 ohms With AT-450 Antenna Tuner 20~150 ohms						
	Power requ	irement	- ter ter ter		12 to 16	VDC (13.8	3 VDC refere	ence)		
IE	Grounding	CHANNER!				Neg	gative	11000000000		
General	Current drain		Receive m no input sig				2A	and	100	
0			Transmit m	ode		20	D.5A			
	Operating to	emperature			-10°C to	+50°C (+	-14°F to + 1	22°F)		
	Frequency stability				Less than	10 PPM				
	Frequency accuracy			Less than ±10 PPM				1.y		
	Dimensions [W×H×D] (Projections included)			270×96×305mm(10-5/8"×3-25/32"×12-1/64") (280×107×340mm)(11-1/32"×4-1/4"×13-25/64")						
	Weight With AT unit Without AT unit		it	7.5kg (16.5lbs)						
			unit	6.3kg (13.9lbs)						
	Frequency range		160m band 80m band 40m band 30m band 20m band		1.8 3.5 7.0 10.1 14.0	to to to to to	2.0 4.0 7.3 10.15 14.35	MH; MH; MH; MH;	z z z	
			1	17m band 15m band 12m band 10m band		to to to	18.168 21.45 24.99 29.7	MH2 MH2 MH2 MH2	Z	
		autoret	SSB, CW,	MAX		10	W			
nitter	Output	FSK, FM		MIN		Less than 20W				
Transmitter	power	28MHz		MAX	owie de o	40W				
Ţ	(Without AT)	(Without AT)	AM	MIN	Less than 10W					
	Contraction of the second second		SSI	В	Balanced modulation					
	Modulation	Modulation		FM		Reactanc	e modulatio	n	1.1925 84163	
	2 2 A		AN	AM		Low level	modulation	1		
	Spurious ra	diation	ante inclusion	WRI		Less tha	an -50dB		10.0	
	Carrier supr	pression (with	1.5kHz referen	ce)	More than 40dB					

5

			상태 전 이상 아무물	Specifications				
	Unwanted sideband suppre reference)		ession (with 1.5kHz	More than 40dB				
5	Maximum frequency deviation (FM)			Less than $\pm 5 \mathrm{kHz}$				
	Frequency	response (–6dl	3)	400 to 2600Hz				
Transmitter	100 - 100 100 100 100 100 100 100 100 10		10 Hz step	More than ±1.1kHz				
	XIT variable	e range	20 Hz step	More than \pm 2.2kHz				
	Microphone impedance			600Ω				
	Circuitry	CHARGE SC (E)	NOUV BLOT O	Triple conversion superheterodyne				
	Frequency	range	·	500kHz to 30MHz				
	Intermedia	te frequency	TROOM INTO	1st : 73.05MHz, 2nd : 8.83MHz, 3rd : 455kHz				
		ARGR	500kHz~1.62MHz*	Less than 4 μ V				
	Sensitivity	SSB, CW, FSK (at 10dB	*1.62MHz ~21.5MHz	Less than 0.2 μ V				
		(S+N)/N)	21.5MHz~30MHz	Less than 0.13 μ V				
		1935.64	500kHz~1.62MHz*	Less than 32 μ V				
		AM (at 10dB	*1.62MHz ~21.5MHz	Less than 2 μ V				
		(S+N)/N)	21.5MHz~30MHz	Less than 1.3 μ V				
		FM (at 12dB SINAD)	28MHz~30MHz	Less than 0.25 μ V				
	Selectivity		SSB, CW, FSK	-6dB:More than 2.2kHz, -60dB:Less than 4.4kH				
			AM	-6dB:More than 5kHz, -50dB:Less than 18kHz				
			FM	-6dB:More than 12kHz, -50dB:Less than 25kHz				
	Image ratio	mage ratio		More than 70dB More than 70dB				
	1st IF reject							
	Notch filte	r attenuation		More than 20dB				
		Wild prod	10 Hz step	More than ±1.1kHz				
	RIT variab	le range	20 Hz step	More than ±2.2kHz				
		And initial	3 m					
	Squelch sensitivity	SSB, CW, FSK, AM	500kHz~1.62MHz*	Less than 20 μ V				
		TON, AIVI	*1.62MHz~30MHz	Less than 2 μ V				
		FM	28MHz~30MHz	Less than 0.25 μ V				
	Output			1.5W across 8 ohms load (10% distortion)				
	Output los	d impedance	140.46	8 ohms				

Notes

Circuit and ratings are subject to change without notice due to advancements in technology.
 Remember to keep the transmit output power within the power limitations of your license.
 * : The U.S.A. version is 1.705 MHz.

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iCOM IC-761 transceiver – works, no mic – Ebay \$280 ~ \$600 minimum bid \$75



GENERAL

	• Frequency coverage	: Receive 0.1MHz ~ 30.0MHz Transmit 160m band 1.8MHz ~ 2.0MHz 80m band 3.45MHz ~ 4.1MHz 40m band 6.95MHz ~ 7,5MHz 30m band 9.95MHz ~ 10.5MHz 20m band 13.95MHz ~ 14.5MHz 17m band 17.95MHz ~ 18.5MHz 15m band 20.95MHz ~ 25.1MHz 12m band 27.95MHz ~ 30.0MHz
3	•Modes	: SSB (A3J), CW (A1), FM (F3), RTTY (F1), AM (A3)
	• Frequency control	: CPU-based 10Hz step digital PLL synthesizer
	• Frequency stability	: ± 100 Hz in the range of -10° C $\sim +60^{\circ}$ C (+14°F $\sim +140^{\circ}$ F)
	Antenna impedance	: 50 Ω (when TUNER SWITCH is OFF) 16.7 \sim 150 Ω (with TUNER SWITCH ON)
	Power supply requirement	: U.S.A. version AC 100 ~ 120V Australia, Europe, France versions AC 200 ~ 240V
	Power consumption	: Max, 650VA transmitting Max, 80VA receiving
	Dimensions	: 424mm(W) x 150mm(H) x 390mm(D) (Projections not included)
	•Weight	: 17.5kg
	TRANSMITTER	
	Output power	: SSB Max. 100W PEP CW, RTTY, FM Max. 100W AM Max. 40W
	Modulation	: SSB Balanced modulation FM Reactance modulation AM Low level modulation
	Max, frequency deviation	: ±5kHz
	RTTY shift width	: 170Hz, 850Hz
	Spurious emissions	: Less than60dB
	Carrier suppression	: Less than -40dB
	Unwanted sideband	: Less than -55dB with 1000Hz modulation
	Microphone impedance	: 600Ω

.

RECEIVER

Receive system		: SSB FM	, CW, RTTY,		Quadruple-c Triple-conve	
Intermediate frequencies	-	: 1st	All modes	70,451	5MHz	
A MARINA CITA CITA NY PANALALIN' POSITI TETO		2nd	SSB CW, RTTY FM, AM	9.011 9.010 9.010	6MHz	
		3rd	All modes	45	5kHz	
		4th	SSB CW, RTTY AM	9.011 9.010 9.010	6MHz	
Sensitivity (PREAMP SWITCH O	N)	0: 0.	8, CW, RTTY 1 ~ 0.5MHz 5 ~ 1.6MHz 6 ~ 30MHz	Less that	an 0.5µV for an 1µV for 1 an 0.15µV fo	OdB S/N
		AM	(NARROW F	ILTER	selected)	
		0.	1~0.5MHz	Less that	an 3µV for 1	0dB S/N
			5~1.6MHz			
			6~30MHz	Less tha	an 1µV for 1	OdB S/N
		FM 29	~ 30MHz	Lace the	n 0 2uV for	12dB SINAD
		20	JUNITIZ	Eess the	in 0,5µv för	120B SINAD
 Squelch sensitivity 		: Les	s than 0,3µV			
Selectivity		: SSB	FILTER SW	итсн о	N)	2.4kHz/–6dB 3.8kHz/–60dB
		CW,	RTTY (FILT	TER SWI	TCH ON)	500Hz/6dB 1kHz/60dB
		AM				6kHz/6dB 18kHz/50dB
		FM				15kHz/–6dB 30kHz/–50dB
Audio output power		: Mor	e than 2.6W a	at 10% d	istortion wit	h 8Ω load
Notch filter attenuation		: Mor	e than 45dB			
 RIT variable range 		: ±9,9	kHz			
ANTENNA TUNER						
•Output matching range		: 16.7	$\sim 150\Omega$ unb	alanced	(when TUNI	ER SWITCH is ON).
Minimum input power		: 8W				
 Band switching time 		: 3 se	conds or less			
 Auto tuning time 		: 3 se	conds or less			
 Auto tuning accuracy 		: VSV	VR 1.2:1 or le	55		
Insertion loss		: 0.5d	B or less (afte	er tuning)	

* All stated specifications are subject to change without notice or obligation.

Yaesu FT-990 transceiver – works, no mic – Ebay \$350 ~ \$750 minimum bid \$90



Specifications

General

Receiving frequency range: 100 kHz - 30 MHz

Transmitting frequency ranges: 160-m band, 1.8 to 2.0 MHz (or 1.81/1.83 to 1.85) 80-m band, 3.5 to 4.0 MHz 40-m band, 7.0 to 7.5 MHz 30-m band, 10.0 to 10.5 MHz 20-m band, 14.0 to 14.5 MHz 17-m band, 18.0 to 18.5 MHz 15-m band, 21.0 to 21.5 MHz 12-m band, 24.5 to 25.0 MHz 10-m band, 28.0 to 29.7 MHz

Frequency stability: < 10 ppm from -10 to +50 °C (except FM, < 200 Hz) , < 0.5 ppm from -10 to +50 °C w/TCXO-2 option (FM < 150 Hz)

Emission modes: LSB/USB (J3E), CW (A1A), FSK (J1D, J2D), AM (A3E), FM (F3E)

Basic frequency steps: 10 Hz for J3E, A1A and J1D; 100 Hz for A3E, F3E and J2D

Antenna impedance: 16.5 to 150Ω (50Ω nominal)

Supply voltage:

100-117 or 200-234 VAC ± 10%, 50/60 Hz

Power consumption (approx.): 60 VA receive, 470 VA for 100 watts transmit

Dimensions (WHD): 368 × 129 × 370 mm

Weight (approx.): 13 kg. (28.6 lbs)

Transmitter

Power output:

adjustable up to 100 watts (25 watts AM carrier)

Duty cycle: 100% @ 100 watts,

50% @ 100 watts (FM & RTTY, 3-minute tx)

Modulation types

SSB: Balanced, filtered carrier

AM: Low-level (early stage)

FM: Variable reactance

FSK: Audio frequency shift keying

Maximum FM deviation: ±2.5 kHz

FSK shift frequencies: 170, 425 and 850 Hz

Packet shift frequencies: 200, 1000 Hz

Harmonic radiation: at least 50 dB below peak output

SSB carrier suppression:

at least 40 dB below peak output

Undesired sideband suppresion: at least 50 dB below peak output

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Audio response (SSB):

not more than -6 dB from 400 to 2600 Hz 3rd-order IMD: -36 dB typical @ 100 watts PEP on 14.2 MHz

Microphone impedance: 500 to 600 Ω

Receiver

Circuit type:

triple-conversion superheterodyne

Intermediate frequencies: 47.21 and 10.94 MHz, and 455 kHz

Sensitivity:

 $(for 10 dBS/N, 0 dB\mu = 1 \mu V)$

Frequency ⇒ Mode (BW) ↓	100 - 250 kHz	250 ~ 500 kHz	0.5 - 1.8 MHz	1.8 - 30 MHz
SSB, CW (2.4 kHz)	<4 j.W	< 1 µV	< 2 µV	< 0.25 µV
AM (6 kHiz)	< 10 µV	<2 µV	< 4 µV	< 1 µW
29-MHz FM (for 12 dB SINAD)	-	1		× 0.5 µV

Selectivity (-6/-60 dB):

Button	Modes	Minimum 6 dB BW	Maximum -60 dB BW
2.4 kHz	all except FM	2.2 kHz	4.0 kHz
2.0 kHz	all exc. AM, FM	1.8 kHz	3.6 kHz
500 Hz	CW, RTTY, Packet	500 Hz	1.8 kHz
250 Hz	CW, RTTY	240 Hz	700 Hz
	AM (wide)	6 kHz	15 kHz

Squelch sensitivity:

1.8 ~ 30 MHz (CW, SSB, AM): < 2.0 μV 28 ~ 30 MHz (FM): < 0.32 μV

IF rejection (1.8 ~ 30 MHz): 80 dB or better

Image rejection (1.8 – 30 MHz): 80 dB or better

IF shift range: ±1.2 kHz

Maximum audio power output: 2 watts into 4 Ω with < 10% THD

Audio output impedance: 4 to 8 Ω

Specifications are subject to change, in the interest of technical improvement, without notice or obligation.

Yaesu FL-2100B amplifier – unknown functionality — QTH.com \$380 minimum bid \$95



Circuit	:	Grounded Grid Class B
Frequency Coverage	;	Ham bands 80 through 10 meters
Plate input	:	1200 Watts PEP, 1000 Watts CW and 600 Watts AM
Plate voltage	:	2400 Volts DC
Drive Requirement	:	100 Watts PEP
Input Impedance	:	50 ohms, unbalanced
Output Impedance	:	50 - 75 ohms, unbalanced
Third Order Distortion	:	30 db or better at 1000 Watts PEP
Tube Complement	:	2 imes 572B/T 160
Cooling	:	Forced-air cooling
Power Requirements	:	AC 100, 110, 117 Volts 50/60Hz 18 Amps
		AC 200, 220, 234 Volts 50/60Hz 9 Amps
Dimensions	:	13 1/2" Wide, 6 " High, 11 1/2" Deep
Weight	:	41 lbs

Yaesu FV-901DM Synthesized Scanning VFO, mates with FT901DM or FT902DM - unknown functionality — Ebay \$270 minimum bid \$67



SPECIFICATIONS

Frequency range	: 5.55-4.95 MHz
Output level	: 150 mV RMS into 50 ohms
Stability (+25°C)	: ± 300 Hz in first hour after 1 minute warm-up
	± 50 Hz after 1 hour
	± 1 kHz over temperature range $-10^{\circ}C - +60^{\circ}C$
Memory channels	: 40
Clarifier	: ± 2.5 kHz offset of transmit, receive, or transceive frequencies, on dial or memory mode
Power requirements	: 100/110/117/200/220/234 volts AC, 50/60 Hz 13.5 volts DC, negative ground (use only optional DC cable)
Power consumption	: AC – 13 VA (5.4 VA memory backup mode)
	DC - 0.53 amps (0.12 amps memory backup mode)
Case size	: 210(W) x 154(H) x 320(D) mm
Weight	: Approx. 4 kg.

Ten-Tec 538 Jupiter transceiver & 963 power supply- unknown functionality, no mic — **QRZ.com \$740 minimum bid \$185**



SPECIFICATIONS GENERAL

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GENERAL	
MODULATION	LSB, USB, CW, AFSK, FM, AM.
FREQUENCY RANGE	Receive: 100 kHz – 30 MHz. Transmit: All amateur radio frequencies: 160 through 10 m.
DISPLAY	Multi-line text and graphic Liquid Crystal Display.
VFO	Dual VFOs with SPLIT transceive option.
OFFSET TUNING	+/- 10 kHz on receive and transmit.
MEMORIES	128 internal to Jupiter Virtually any PC will store thousands of memories in Pegasus Emulation Mode.
FREQUENCY ACCURACY	+/- 90 Hz at 25°C at 30 MHz for 1 year.
ANTENNA IMPEDANCE	50 ohms, SWR \leq 2:1, unbalanced.
POWER REQUIRED	12-14 VDC @1.5 A receive, 20A transmit.
CONSTRUCTION	9 epoxy glass PC boards, molded front panel, aluminum chassis, textured painted steel cover.
DIMENSIONS	$HWD = 5" \times 12.125" \times 13" (12.7 \times 30.8 \times 33 \text{ cm.})$ Depth includes heat sink on rear panel.
WEIGHT	12 lbs. (5.45 kg.)
TRANSMITTER	
RF OUTPUT	5 – 100 watts, ALC stabilized.
DC INPUT	Maximum 250 watts @ 14 VDC. 100% duty cycle for up to 10 minutes. Continuous duty with user-supplied air cooling of rear panel heat sink.
MICROPHONE	4-pin front panel connector accepts 200 ohm to 50K ohm impedance microphones with 5 mV (-67 dB) output and provides DC polarizing voltage (+9 V) for electred microphones.
LINE INPUT	1 mV p-p into 47k Ohms.
T/R SWITCHING	PTT or VOX on SSB, Adjustable QSK on CW.
CW OFFSET	DSP generated: programmable 0 to 1270 Hz. Sidetone automatically matches offset.
FM DEVIATION	5 kHz peak.
FM DEVIATION METERING	-

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CARRIER SUPPRESSION	> 50 dB.
UNWANTED SIDEBAND SUPPRESSION	> 60 dB at 1.5 kHz.
THIRD ORDER INTERMODULATION	25 dB below two tones @ 100 watts PEP.
SPURIOUS OUTPUT	Better than 40 dB below peak power output.
RECEIVER	
SENSITIVITY	0.35 μ V typical for 10 dB S+N/N @ 3 kHz bandwidth, SSB mode. Equivalent to 11.35 dB noise figure.
SELECTIVITY	34 filters built-in with $1.5:1$ or better shape factors (-6 to - 60 dB): 300 Hz, 330 Hz, 375 to 750 Hz in 75 Hz increments, 750 Hz to 3 kHz in 150 Hz increments, 3 kHz to 6 kHz in 300 Hz increments, and 8.0 kHz.
SPURIOUS FREE DYNAMIC RANGE	90 dB @ 3 kHz bandwidth at 50 kHz tone spacing.
THIRD ORDER INTERCEPT	+10 dBm.
NOISE FLOOR	-126 dBm @ 3 kHz bandwidth.
S-METER	S9 calibrated to 50 μ V standard.
ATTENUATOR	20 dB, selectable by operator
PASSBAND TUNING	+/- 2 kHz.
I-F FREQUENCIES	1 st I-F 45 MHz, 2 nd I-F 455 kHz, 3 rd I-F 12 kHz.
I-F REJECTION>	60 dB typical.
IMAGE REJECTION	> 60 dB typical.
RECEIVE RECOVERY TIME	less than 20 ms, including SPLIT mode.
AUDIO	Speaker: 1 watts @ 4 ohms. Line out: > 1 V p-p into 600 ohms.
SPECTRUM SWEEP DISPLAY	8 widths from 240 Hz to 2.4 MHz, with tuning cursor and selectable Autosweep function.

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Cushcraft R7 vertical antenna 10, 12, 15, 17, 20, 30, 40M, Good condition per Gerry, N6NV

Donated by Ann Horrillo on behalf of Toni, WB6KSO, SK

QRZ.com \$120 minimum bid \$30

SPECIFICATIONS

10, 12, 15, 17, 20, 30, 40	Frequency Bands (Meters) Gain, dBi	
3	Electrical Wavelength	
Hell men	Each band	
Haz-wave		
	VSWR 1.2:1 Typical	
10m (2.0 MHz), 12m (100 KHz)	2:1 Bandwidth	
17m (100 KHz), 20m (150 KHz)	15m (450 KHz	
30m (50 KHz), 40m (75 KHz)		
1800	Power Rating, Watts PEP	
16*	Radiation Angle Typical	
Automatic	Frequency Selection	
es 360°	Horizontal Radiation Pattern, Deor	
22.5 (6.9)	Height, ft. (m)	
1.5-1.75 (3.8-4.4)	Mast Size Range, in. (cm)	
2.25 (.21)	Wind Load, ft.2 (m2)	
12.3 (5.6)	Weight, Ib. (kg)	
	49 in. (124 cm) Counterpoise Radi	

