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Craig 4351, 4352 Service Manual

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SERVICE MANUAL



4351 4352

PORTABLE 4 CHANNEL SCANNER MONITOR





SPECIFICATIONS

FREQUENCY RANGELow VHF: 30 - 50 MHz High VHF: 150 - 174 MHz
RF BAND WIDTHLo VHF: 6MHz(Supplied 37 to 43 MHz)
Hi VHF: 8MHz(Supllied 152 to
160MHz)
SENSITIVITY0.6 uV for 20 dB quieting
(center band)
IMAGE REJECTION40 dB
SOUELCH SENSITIVITY0.6 uV minimum
MODULATION ACCEPTANCE5 kHz
POWER OUTPUT350 mW into 8 Ohms
SCAN MODESAutomatic & manual
CONTROLS
power
SPEAKER IMPEDANCE8 Ohms
POWER SOURCE 4 "AA" size cells or 6V
130mA DC
CRYSTAL DATA
CRYSTAL HOLDER TYPEHC-25U
MODE OF OSCILLATIONThird overtone
RESONANCEParallel
FREQUENCY TOLERANCE + 0.001%(+25°C)
LOAD CAPACITY20pF
MAXIMUM DRIVE 2 mW
MAXIMUM SERIES RESISTANCE35 Ohms
CRYSTAL FREO(third overtone)
CALCULATIONLo VHF: CH Freq. +10.7MHz
Hi VHF (CH Freg10.7MHz)/3
112 112 (011 1204: 20111111), 0

FREQUNCY RANGEUHF: 450 - 512 MHz RF BAND WIDTHUHF: 10 MHz (supplied 455 to 465 MHz
SENSITIVITY2.5 uV for 20 dB quieting (center-band)
IMAGE REJECTION
MODULATION ACCEPTANCE5 kHz POWER OUTPUT250 mW into 8 Ohms
SCAN MODESAutomatic and manual CONTROLSVol, SQ, bypass, scan mode,
power POWER SOURCE
DC DC
CRYSTAL DATA
CRYSTAL HOLDER TYPEHC-25U MODE OF OSCILLATIONThird overtone
RESONANCEParallel
FREQUENCY TOLERANCE \pm 0.001% (+25°C)
LOAD CAPACITY20 pF
MAXIMUM DRIVE
RESISTANCE35 Ohms
CRYSTAL FREQ. (third overtone)
CALCULATIONUHF: (Channel Frequency
—10.7 MHz)/9

ALIGNMENT PROCEDURES

Alignment is performed at factory with laboratory test equipment. Therefore, before alignment is attempted the unit should be thoroughly checked for circuit troubles.

EQUIPMENT REQUIERED

- 1.) FM SIGNAL GENERATOR 30 to 190 MHz (VHF Band)
 2.) FM SIGNAL GENERATOR 450 to 512 MHz (UHF Band)
- 3.) SWEEP GENERATOR 30 to 170 MHz
- 4.) OSCILLOSCOPE

- 5.) POWER SUPPLY 6V DC 200 mA
- 6.) CRYSTALS - 156 MHz, 450 MHz, 470 MHz & 480 MHz
- 7.) DUMMY LOAD 8 Ohms
- 8.) V.T.V.M.

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Turn volume and squelch control fully counterclockwise. Set unit to MANUAL scanning and activate CH-4, plug ONE pin only of a crystal type HC-25U (any frequency can be used) into CH-4 crystal socket on the HIGH Band side to activate the RF and mixer circuits.

FUNCTION	BAND	SIGNAL INPUT	FREQ'CY	OUTPUT	ADJUSTMENT	ADJ. FOR
RF	Hi VHF (4351 only)	Connect sweep generator to TP1 & TP2 (SIGNAL LEVEL MEDIUM)		Connect oscilloscope to R103 & ground to R302	L101,L102, L103,L104	Wave form on Fig. 4

Remove crystal from High Band side and plug ONE pin only of the same crystal on CH-4 crystal socket on Low Band side Connect sweep generator to TP1 & TP2 L105,L106, RF Lo VHF 40 MHz Connect oscilloscope Wave form (SIGNAL LEVEL MEDIUM) to R110 & Gnd to R302 L107,L108 on Fig. 4

ALIGNMENT FOR MINIMIZING SPURIOUS

Set unit to MANUAL scanning and activate CH-4, plug a 156 MHz crystal into CH-4 crystal socket on High Band side.

MINIMIZING SPURIOUS VHF (4351 only	1		Connect oscilloscope, V.T.V.M. to 8 Ohm dummy load across EXT. speaker jack.	L109	minimum spurious output level	
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Turn power on and squelch control fully counterclockwise. Plug the 450 MHz crystal (type HC-25U) in CH-3 crystal socket, set unit to manual scanning and activate CH-3.

v.v.c.	UHF			Connect Voltmeter between R101 & Gnd	L106	Reading of 0.4V on Voltmeter			
Remove the 450 MHz crystal and plug the 470 MHz crystal in the same socket.									
A.F.C.				Connect Voltmeter between TP2 & ground	VR2	Reading of 3.0V on Voltmeter			
SENSITIVITY	UHF	Connect signal generator to EXT. ANT. jack. Attenuator of SG aprox. 1 mV NOTE: Decrease output level of SG gradually while adjusting.	470 MHz	Connect Oscilloscope, V.T.V.M. to 8 Ohm dummy load across EXT. speaker jack	L104,C116, C105,C101	Best signal to noise ratio (repeat adj)			
Remove 470 MHz crystal and plug the 480 MHz crystal in the same socket. Turn the squelch control fully clockwise.									
SQUELCH	UHF	Set attenuator of signal generator to 10 uV		Connect oscilloscope, V.T.V.M. to 8 Ohm dummy load across EXT. speaker jack	VRl	open SQ with 10uV signal input			

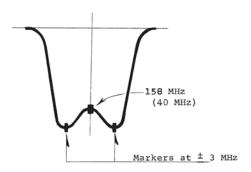
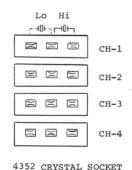


Fig. 4



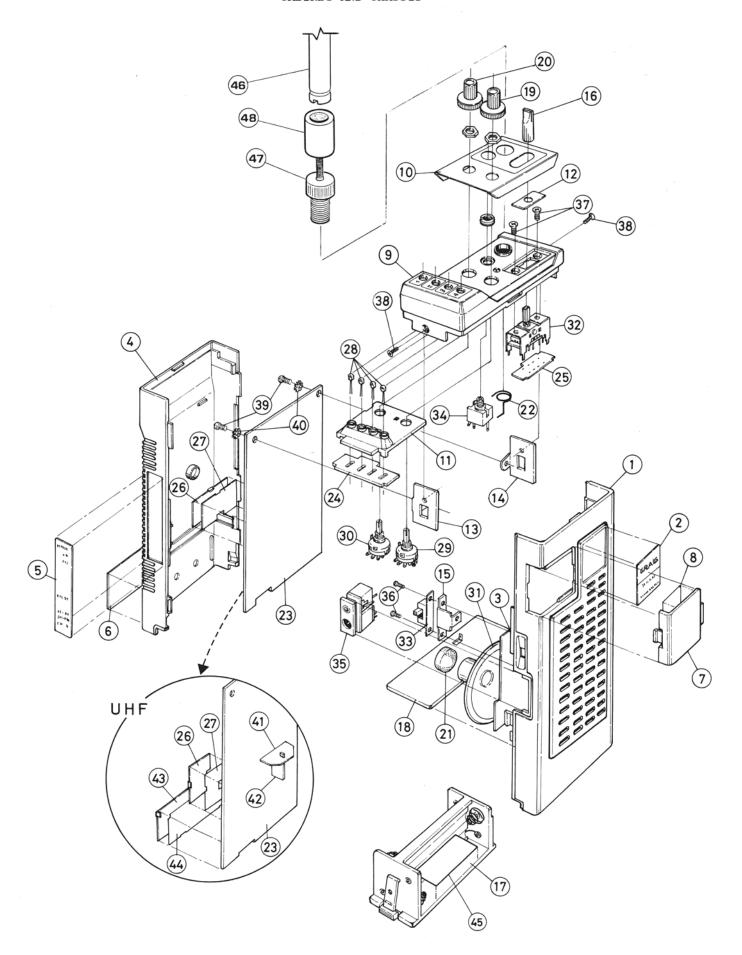
PARTS PRICE LIST

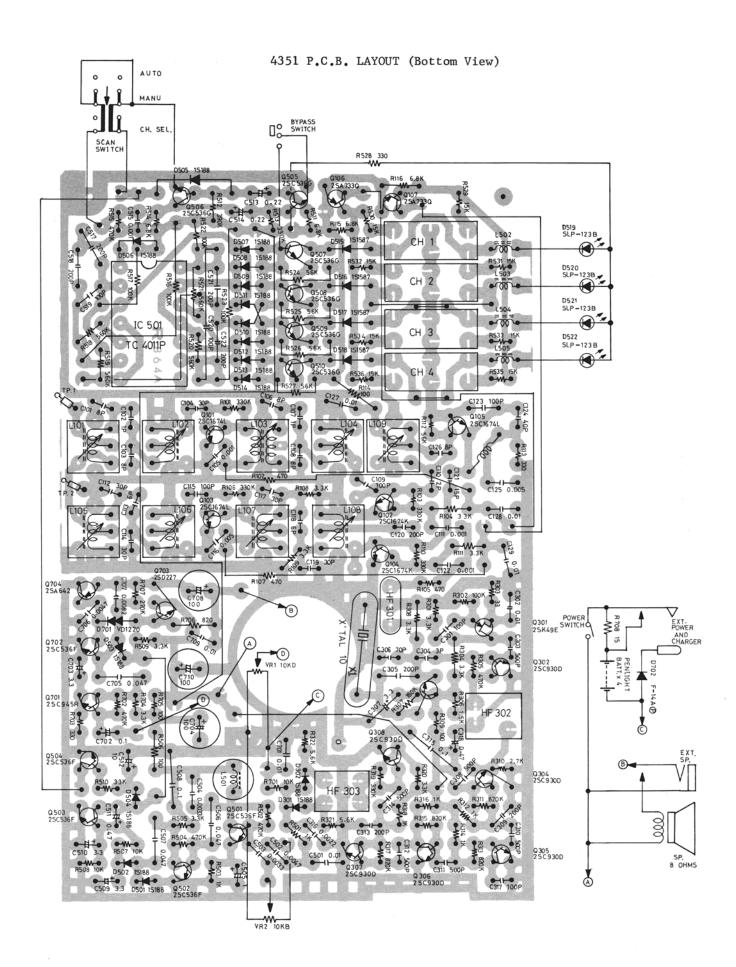
SUBJECT TO CHANGE WITHOUT NOTICE. USE ALL AVAILABLE NUMBERS AND COMPLETE DESCRIPTION WHEN ORDERING, INCLUDING MODEL NUMBER * * * "THESE PRICES HAVE BEEN REVISED AS OF 5-11-76" * * *

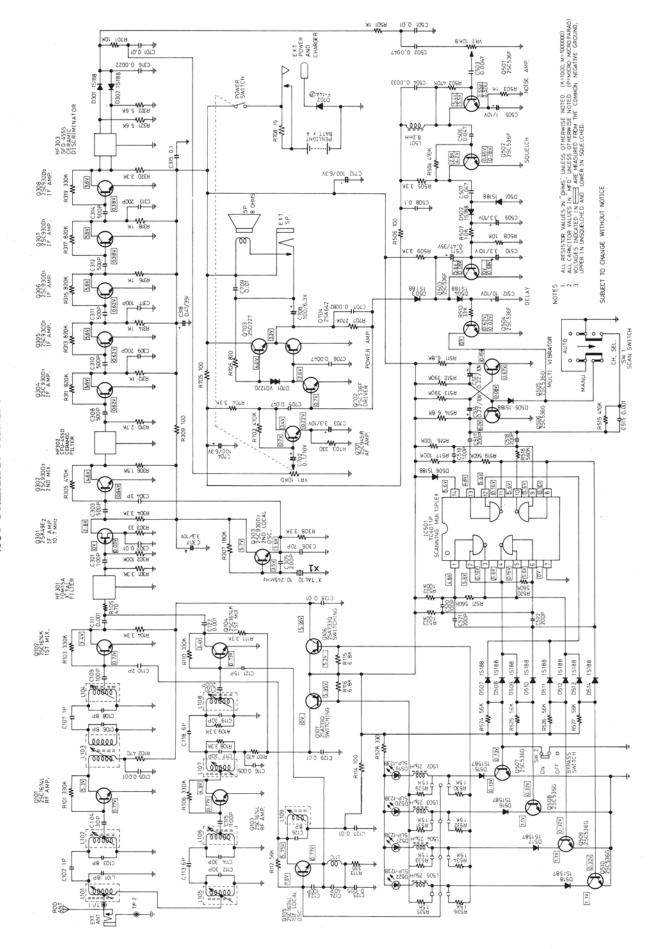
	* * * "THESE PRICES HAVE BEEN REVISED AS OF 5-11-76" * * *								
	CRAIG F	CEY NO.				CRAIG	KEY NO.		
Ref.		MODEL		Mfr's Sugg	Ref.	MODEL	MODEL	Mfr's	Suga
No.	4351	4352	Description	Ret. Price	No.	4351	4352		Price
1101			DOODL IP COM					neo:	11100
				PACKA	GIN	G			
	4351001	4352001	Individual Carton	2.50	46	4351006	4351006	Telescopic Antenna	3.70
	4351002	4352002	Carton Sleeve	1.20		4351007	4351007	Extension Antenna Wire	.90
	4351 003	4351003	Cushion, Unit Pad	1.70	47	4351008	4351008	Scr, Telescopic Ant Mtg	1.05
	4351004	4352003	Plastic Base	1.20	48	4351009	4351009	Bushing, Telescopic Antenna	.40
	4351005		Leather Carrying Case			2603123	2603123		.60
	1001000	1002000	reaction carrying case	0.00	l	2003123	2003223	Darphone	• 00
			CABI	NET EXI	PLOD	ED VI	EW		
1	4351056	4351056	Front Cabinet	4.90	28	SLP123B	SLP123B	L.E.D. (D519~D522)	1.35
2	4351057	4352021	Plate, Decoration	.65	29	4351038	4351038	Var Res 10k, Vol W/Sw	2.35
3	4351058	4351058	Net, Speaker Grille	.35	30	4351039	4351039	Var Res 10k, Squelch	2.05
4	4351059	4351059	Back Cabinet	4.90	31	4351040	4351040	Speaker, 8 Ohms	3.25
5	4351060	4351060	Plate, Decoration	.65	32	4351041	4351041	AUTO/MANU/CH-SEL Switch	2.60
6	4351061	4352022	Craig Model Bedge	.75	33	4351042	4351042	BYPASS Switch	1.50
7	4351001	4351017	Lid, Crystal Access	.70	34	9109025	9109025	Jack, Antenna Extension	.40
8	4351017	4352012			35		4351043	Jack Ass'y, Ext. SP & Power	
9			Label, Crystal Layout		36	4331043	4351043		.25
-	4351019	4351019	Top Panel	4.40				Scr, PH M2x4	
10	4351020	4351020			37			Scr, FH M2.6x6	.25
11	4351021	4351021	Plastic Bkt, LED & Con		38			Scr, FH M2x4	.25
12	4351022	4351022	Dust Cover, Switch	.25	39			Scr, PH M2.6x6	.25
13	4351023	4351023	Bkt (L), Main PCB Mtg	.40	40			Toothed Lock Washer, M2	.25
14	4351024	4351024	Bkt (R), Main PCB Mtg	.40	41	N/A	NSP	Shield Plate(A), PCB	**
15	4351025	4351025	Bkt, Slide Sw Mtg	.30	42	N/A	NSP	Shield Plate(B), PCB	**
16	4351026	4351026	Knob, Select Sw	.95	43	N/A	4352014	Shield Plate	.35
17	4351027	4351027	Battery Case	3.90	44	N/A	4351015	Insulator	.35
18	4351028	4351028	Ass'y, Batt Terminal	.75	45	4351044		Coution Label	.25
19	4351029	4351029	Knob, Vol Cont	.95	24	4351034	4351034	LED PCB W/O Comp	. 75
20	4351029	4351029	Knob, Squelch Cont	.95	25	4351035	4351035	PCB, CH Select Sw	.75
21			Felt Cushion, Speaker		26	4351035		Shield Plate	.35
	4351031	4351031				4351036			.35
22	4351032	4351032	Spr, Ant. Extension Ja		27			Fiber Insulator	
23	*****	*****	Main P.C.B.	****	-	4351062	4352023	Crystal Socket	1.65
D - C				Mfr's Sugg	Ref.		Craig	Mfr's	Sugg
Ref.		raig	Description	Ret. Price	No.		y No.	Description Ret.	Price
No.	Ke	y No.							
			CHOKES, CO	ILS, FIL	TERS	& C	RYSTA	LS	
	4351							4352	
L103	43	51045	RF Coil	1.50	L101,	102, 43	352016	RF Coil	1.50
L101,		51046	" "	1.50	L105	43	352016	RF Coil	1.50
L104		51046		1.50	L104	43	352018	RF Coil	1.50
L109		51047		1.50	L106	43	351048	RF Coil	1.50
		51047		1.50	L505	43	351050	RF Choke, 8.2 mH	1.05
L105			RF Coil	1.50	L501,		351049	RF. Choke 25 mH	.75
L107	• • • • • • • • • • • • • • • • • • • •	51048		1.50	LOUZ,				
				75	T.503		351049	RF Choke 25 mH	.75
		51049	RF Choke, 25 uH	. 75	L503,		351049	RF Choke 25 mH	.75 1.05
L504	,505 43	51049		.75	L301	43	352019	Choke Coil, 3.9 uH	1.05
	,505 43		RF Choke, 8.2 mH	.75 1.05	L301 HF301	4:	352019 351052	Choke Coil, 3.9 uH Crystal Filter (10M15A)	1.05 8.95
L504	,505 43 43	51049	RF Choke, 8.2 mH VHF Coil	.75 1.05 .30	L301 HF301 HF302	4:	352019 351052 351053	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D)	1.05 8.95 4.95
L504	,505 43 43 43	51049 51050	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15	.75 1.05 .30 5A) 8.95	L301 HF301 HF302 HF303	4:	352019 351052 351053 351054	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator	1.05 8.95 4.95 3.95
L504 L501 L110	,505 43 43 43 1 43	51049 51050 51051	RF Choke, 8.2 mH VHF Coil	.75 1.05 .30 5A) 8.95 55D) 4.95	L301 HF301 HF302 HF303 X1	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4	352019 351052 351053 351054 351055	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U	1.05 8.95 4.95 3.95 7.70
L504 L501 L110 HF30	,505 43 43 43 1 43 2 43	51049 51050 51051 51052	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15	.75 1.05 .30 (5A) 8.95 (5D) 4.95	L301 HF301 HF302 HF303	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4	352019 351052 351053 351054	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator	1.05 8.95 4.95 3.95
L504 L501 L110 HF303	,505 43 43 43 1 43 2 43 3 43	51049 51050 51051 51052 51053 51054	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator	.75 1.05 .30 5A) 8.95 55D) 4.95	L301 HF301 HF302 HF303 X1	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4	352019 351052 351053 351054 351055	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U	1.05 8.95 4.95 3.95 7.70
L504, L501 L110 HF300 HF300	,505 43 43 43 1 43 2 43 3 43	51049 51050 51051 51052 51053	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H	.75 1.05 .30 5A) 8.95 55D) 4.95 .3.95 HC-18U) 7.70	L301 HF301 HF302 HF303 X1 L103	43 44 43	352019 351052 351053 351054 351055 352017	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U	1.05 8.95 4.95 3.95 7.70
L504, L501 L110 HF300 HF300	,505 43 43 43 1 43 2 43 3 43	51049 51050 51051 51052 51053 51054	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator	.75 1.05 .30 5A) 8.95 55D) 4.95 .3.95 HC-18U) 7.70	L301 HF301 HF302 HF303 X1 L103	43 44 43	352019 351052 351053 351054 351055 352017	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U	1.05 8.95 4.95 3.95 7.70 .45
L504 L501 L110 HF300 HF300 X1	,505 43 43 43 1 43 2 43 3 43	51049 51050 51051 51052 51053 51054 51055	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz(H	.75 1.05 .30 (A) 8.95 (5D) 4.95 : 3.95 (C-18U) 7.70	L301 HF301 HF302 HF303 X1 L103	43 44 43	352019 351052 351053 351054 351055 352017	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U	1.05 8.95 4.95 3.95 7.70 .45
L504 L501 L110 HF30: HF30: X1	,505 43 43 43 1 43 2 43 3 43 43 ,102,103	51049 51050 51051 51052 51053 51054	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H	.75 1.05 .30 5A) 8.95 55D) 4.95 .3.95 HC-18U) 7.70	L301 HF301 HF302 HF303 X1 L103	4: 4: 4: 4: 4: 4: 4: 5	352019 351052 351053 351054 351055 352017	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil	1.05 8.95 4.95 3.95 7.70 .45
L504 L501 L110 HF300 HF300 X1	,505 43 43 43 1 43 2 43 3 43 43 ,102,103 ,105	51049 51050 51051 51052 51053 51054 51055	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H	.75 1.05 .30 8.95 55D) 4.95 .395 6C-18U) 7.70 1 SEMIC	L301 HF301 HF302 HF303 X1 L103	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4	352019 351052 351053 351054 351055 352017 <u>S</u> 2SA642	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil	1.05 8.95 4.95 3.95 7.70 .45
L504, L501 L110 HF300 HF300 X1 Q101 Q104 Q106	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107	51049 51050 51051 51052 51053 51054 51055 2SC1674 "	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H	.75 1.05 3.0 8.95 55D) 4.95 3.95 1CC-18U) 7.70 1 SEMIC	L301 HF301 HF302 HF303 X1 L103	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4	352019 351052 351053 351054 351055 352017 <u>S</u> 2SA642 TC4011P	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C.	1.05 8.95 4.95 3.95 7.70 .45
L504 L501 L110 HF300 HF300 X1 Q101 Q104 Q106 Q301	,505 43 43 43 1 43 2 43 3 43 43 ,102,103 ,105 ,107	51049 51050 51051 51052 51053 51054 51055 2SC1674 " 2SA733 2SK49	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 6C-18U) 7.70 1 S E M I C 1.3595 1.65	L301 HF301 HF302 HF303 X1 L103 O N D U Q704 IC503 D301, D502	4: 4: 4: 4: 4: 4: 4: 4: 5. 4: 4: 4: 4: 5. 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	352019 351052 351053 351054 351055 352017 S 2SA642 TC4011P 1S188	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode	1.05 8.95 4.95 3.95 7.70 .45
L504, L501 L110 HF300 HF300 X1 Q101 Q104 Q106 Q301 Q302	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107	51049 51050 51051 51052 51053 51054 51055 28C1674 " 28A733 28K49 28C930	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H	.75 1.05 3.0 8.95 55D) 4.95 3.95 1CC-18U) 7.70 1 SEMIC	L301 HF301 HF302 HF303 X1 L103 C N D U Q704 IC501 D301, D502, D505,	43 44 44 45 47 47 47 47 47 47 47 47 47 47 47 47 47	352019 351052 351053 351053 351054 351055 352017 <u>S</u> 2SA642 TC4011P 1S188	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode	1.05 8.95 4.95 3.95 7.70 .45
L504, L501 L110 HF300; HF300; X1 Q101 Q104 Q106 Q301 Q302 Q305	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107 ,303,304 ,306,307	51049 51050 51051 51052 51053 51054 51055 2SC1674 " 2SA733 2SK49 2SC930	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (FFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 6C-18U) 7.70 1 SEMIC 1.35 .95 1.65 1.50	L301 HF301 HF303 X1 L103 CONDU	4: 4: 4: 4: 4: 4: 4: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5:	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode ""	1.05 8.95 4.95 3.95 7.70 .45
L504, L501 L110 HF300 X1 Q101 Q104 Q106 Q301 Q302 Q305 Q308	,102,103 ,105,107 ,303,304 ,306,307	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5	.75 1.05 .30 8.95 55D) 4.95 .3.95 IC-18U) 7.70 1 SEMIC 1.35 .95 1.65 1.50	L301 HF301 HF302 HF303 X1 L103 O N D U Q704 IC501 D301 D502 D505 D508 D511	43 44 44 45 47 47 47 47 47 47 47 47 47 47 47 47 47	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode "" ""	1.05 8.95 4.95 3.95 7.70 .45
L504, L501 L110 HF300; HF300; X1 Q101 Q104 Q106 Q301 Q302 Q305 Q308 Q501	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107 ,303,304 ,306,307	51049 51050 51051 51052 51053 51054 51055 2SC1674 "2SA733 2SK49 2SC930 "12SC536	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 6C-18U) 7.70 1 SEMIC 1.35 .95 1.65 1.50 ." 2.30	L301 HF302 HF303 X1 L103 O N D U Q704 LC501 D502 D505, D508, D511, D514	4: 4: 4: 4: 4: 7 C T O R 1,503,504,506,507,509,510,512,513,	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 """ """	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode """ """	1.05 8.95 4.95 3.95 7.70 .45
L504, L501 L110 HF300; HF300; X1 Q101 Q104 Q106 Q301 Q302 Q305 Q308 Q501	,102,103 ,105,107 ,303,304 ,306,307	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 "2SA733 2SK49 2SC930 "	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 1C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 " 2.30	L301 HF302 HF303 X1 L103 O N D U Q704 IC500 D301, D502, D505, D508, D511, D514 D515.	4: 4: 4: 4: 4: 4: 4: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5: 5:	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 """	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode "" "" "" "" "" "" "" ""	1.05 8.95 4.95 3.95 7.70 .45
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q106 Q301 Q302 Q305 Q308 Q501 Q505	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107 ,303,304 ,306,307	51049 51050 51051 51052 51053 51054 51055 2SC1674 "2SA733 2SK49 2SC930 "12SC536	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFV45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor	.75 1.05 3.0 8.95 55D) 4.95 3.95 6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 " 2.30 " 1.50	L301 HF302 HF303 X1 L103 CONDUCTOR	4: 4: 4: 4: 4: 4: 7 C T O R 1,302,501 ,503,504,,506,507,509,510,,512,513,	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " " " " "	1.05 8.95 4.95 3.95 7.70 .45
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q301 Q302 Q305 Q305 Q305 Q308 Q501 Q505 Q508	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 "2SA733 2SK49 2SC930 "	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 " 2.30 " 1.50	L301 HF302 HF303 HF303 X1 L103 O N D U Q704 IC503 D301, D502, D505, D508, D511, D514 D515, D518	4: 4: 4: 4: 4: 7 C T O R 1,503,504,506,507,509,510,512,513,	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 """ """ """" """"""""""""""""""""	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " " " " L.E.D.	1.05 8.95 4.95 3.95 7.70 .45 1.20 .60
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q301 Q302 Q305 Q308 Q501 Q505 Q508 Q504	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " 2SC536	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFV45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor	.75 1.05 3.0 8.95 55D) 4.95 3.95 6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 " 2.30 " 1.50	L301 HF302 HF303 X1 L103 CONDUCTOR	4: 4: 4: 4: 4: 4: 4: 50 A: 50 C T O R 1,302,501 ,503,504,,506,507,,509,510,,512,513,	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " " " " "	1.05 8.95 4.95 3.95 7.70 .45
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q301 Q302 Q305 Q305 Q305 Q308 Q501 Q505 Q508	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " 2SC536	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor " " " " " " " " " " " " " " " " " "	.75 1.05 .30 8.95 .55D) 4.95 .3.95 .6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 2.30 1.50	L301 HF302 HF303 HF303 X1 L103 O N D U Q704 IC503 D301, D502, D505, D508, D5114 D515 D518 D519 D522	4: 4: 4: 4: 4: 5: 4: 6: 4: 7: C T O R 1: 302,501 503,504,506,507,509,510,512,513,516,517,512,513,516,517,520,521,	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 "" "" "" "" "" ""	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " " " " L.E.D.	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 """ 1.15
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q301 Q302 Q305 Q308 Q501 Q505 Q508 Q504	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " 2SC536	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor " " " " " " " " " " " " " " " " " "	.75 1.05 .30 8.95 55D) 4.95 .39 6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 2.30 1.50 1.55 2 SEMIC	L301 HF302 HF303 HF303 X1 L103 O N D U Q704 IC503 D301, D502, D505, D508, D511 D514 D515 D518 D519 D522	4: 4: 4: 4: 4: 4: 4: 5 C T O R 1,503,504,,506,507,509,510,,512,513, 7,512,513,7,512,513,	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 """ """ """ """ SLP123B SLP123B	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " L.E.D. L.E.D.	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 1.15 1.60 1.60
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q301 Q302 Q305 Q308 Q501 Q505 Q508 Q504	,102,103 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " 2SC536	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor """ """ Transistor Transistor 4 3 5	.75 1.05 .30 8.95 55D) 4.95 .3.95 6C-18U) 7.70 1 SEMIC 1.35 .95 1.65 1.50 ." 2.30 ." 1.55 2 SEMIC	L301 HF302 HF303 X1 L103 O N D U CO N	4: 4: 4: 4: 4: 4: 4: 5.0 T O R 1.302,501 503,504,506,507,509,510,512,513, 516,517,520,521, U C T O R	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 "" "" 1S1587 "SLP123B SLP123B S	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " L.E.D. L.E.D. I.C.	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 "" "1.15 1.60 1.60
L504 L501 L110 HF30: HF30: HF30: X1 Q101 Q104 Q104 Q301 Q302 Q305 Q308 Q501 Q505 Q508 Q504 Q703	,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " 2SC536 2SC945	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (FV45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor "" "" "" "" "" "" "" "" "" "" "" "" "	.75 1.05 .30 8.95 55D) 4.95 .37 1.50 1.35 1.65 1.50 1.50 1.55 2 SEMIC	L301 HF302 HF303 HF303 X1 L103 O N D U CO N D U C500 D505, D508, D511, D514 D515, D518 D519 D522 C O N D U C500 D101	4: 44: 44: 45: 47: 47: 47: 47: 47: 47: 47: 47: 47: 47	352019 351052 351053 351053 351054 351055 352017	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " L.E.D. L.E.D. I.C. Variable Capacitance Diode	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 """ 1.15 1.60 1.60
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q106 Q301 Q302 Q305 Q501 Q505 Q508 Q504 Q703	,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51051 51052 51053 51054 51055 28C1674 28A733 28K49 28C930 28C536 28C945 28C945 28C947	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor "" Transistor Transistor 4 3 5	.75 1.05 .30 8.95 .55D) 4.95 .3.95 8C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 2.30 1.50 1.55 2 SEMIC	L301 HF302 HF303 X1 L103 O N D U CO N D U C500 D508 D511 D514 D515 D518 D519 D522 O N D U C500 D501 D501 D502 D505 D508 D511 D514 D515 D518 D519 D522	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 5. 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 4:	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " " " " " " " " " " " " " " " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " " " " L.E.D. L.E.D. L.E.D. I.C. Variable Capacitance Diode	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 1.15 1.60 1.60
L504, L501 L110 HF30: HF30: HF30: X1 Q101 Q104 Q301 Q302 Q305 Q308 Q501 Q505 Q508 Q703 Q703	,505 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107 ,303,304 ,306,307 ,506,507 ,506,507 ,702,701	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 2SC536 2SC945 2SD227	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor "" "" Transistor Transistor Transistor Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 1.50 1.55 2 SEMIC 1.95 1.95 1.50 1.95	L301 HF302 HF303 X1 L103 O N D U O N D U O N D U IC500 D301 D502 D505 D508 D511 D514 D515 D518 D519 D522 O N D U IC500 D101 D103 D109	4: 4: 4: 4: 4: 4: 4: 5.	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 "" "" "S1587 "SLP123B SLP123B SLP123B SLP123B SLP123B	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode "" " " " L.E.D. L.E.D. I.C. Variable Capacitance Diode "" " " " " " "	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 """ 1.15 1.60 1.60
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q106 Q301 Q302 Q305 Q508 Q504 Q703 Q101 Q102 Q102 Q102 Q103 Q103 Q104	,102,103 ,105,107 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " 2SC936 2SC945 2SD227 2SC1070 2SC787 2SC930	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (FU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor Transistor Transistor 4 3 5 Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 16C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 2.30 1.50 1.55 2 SEMIC	L301 HF302 HF303 X1 L103 O N D U IC50 D301 D505 D508 D511 D515 D518 D519 D522 O N D U IC50 D101 D103 D109 D107	4: 44: 44: 45: 47: 47: 47: 47: 47: 47: 47: 47: 47: 47	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " 1S1587 SLP123B SLP123B SLP123B SLP123B SLP123B TC4011P MV2101 MV201 MV201 RD51	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " L.E.D. L.E.D. I.C. Variable Capacitance Diode " " " " Zener Diode	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 "" 1.15 1.60 1.60
L504, L501 L110 HF301 HF301 X1 Q101 Q104 Q106 Q301 Q302 Q305 Q505 Q508 Q504 Q703 Q101 Q102 Q103 Q103 Q103 Q303 Q303 Q303 Q303 Q303	,102,103 ,105 ,107 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 "2SA733 2SK49 2SC930 "3 2SC945 2SC945 2SD227	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor "" "" Transistor Transistor Transistor Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 1.50 1.55 2 SEMIC 1.95 1.95 1.50 1.95	L301 HF302 HF303 X1 L103 O N D U O N D U O N D U IC500 D301 D502 D505 D508 D511 D514 D515 D518 D519 D522 O N D U IC500 D101 D103 D109	4: 44: 44: 45: 47: 47: 47: 47: 47: 47: 47: 47: 47: 47	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " " " " " " " " " " " " " " " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " L.E.D. L.E.D. L.E.D. Zener Diode Varistor	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 """ 1.15 1.60 1.60
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q301 Q302 Q305 Q501 Q505 Q508 Q504 Q703 Q101 Q102 Q103 Q103 Q103 Q104 Q104 Q105 Q105 Q105 Q105 Q106 Q106 Q107 Q107 Q107 Q108 Q108 Q109 Q109 Q109 Q109 Q109 Q109 Q109 Q109	,102,103 ,105 ,107 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 2SC536 2SC945 2SD227 2SC1070 2SC787 2SC930 "	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (FU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor Transistor Transistor 4 3 5 Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 16C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 2.30 1.50 1.55 2 SEMIC	L301 HF302 HF303 X1 L103 CONDU COND	4: 44: 44: 45: 47: 47: 47: 47: 47: 47: 47: 47: 47: 47	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " " " " " " " " " " " " " " " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " L.E.D. L.E.D. L.E.D. I.C. Variable Capacitance Diode " " " Zener Diode Varistor Diode	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 "" 1.15 1.60 1.85 1.85 1.05 .95
L504, L501 L110 HF30: HF30: HF30: X1 Q101 Q104 Q106 Q301 Q302 Q305 Q508 Q508 Q508 Q509 Q101 Q102 Q103 Q103 Q103 Q104 Q104 Q104 Q105 Q105 Q106 Q106 Q107 Q107 Q107 Q107 Q107 Q107 Q107 Q107	,102,103 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " 2SC536 2SC945 " 2SD227 2SC1070 2SC787 2SC930 " " 2SC387 2SC930 "	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor "" "" "" Transistor 4 3 5	.75 1.05 .30 8.95 55D) 4.95 6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 1.50 1.55 2 SEMIC 1.95 1.50 1.95	L301 HF302 HF303 X1 L103 CONDU COND	4: 4: 4: 4: 4: 4: 4: 50 T O R 1,302,501 506,507,509,510,512,513, 516,517,520,521, 520,521, 510,102,106 1,102,106 1,102,106 1,004,105	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " " " " " " " " " " " " " " " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " " " " " " " " " " " "	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 "" 1.15 1.60 1.60
L504, L501 L110 HF301 HF301 X1 Q101 Q104 Q106 Q301 Q302 Q305 Q508 Q501 Q703 Q101 Q102 Q102 Q103 Q303 Q101 Q102 Q103 Q104 Q104 Q106 Q104 Q106 Q107 Q107 Q107 Q107 Q107 Q107 Q107 Q107	,102,103 ,105 ,107 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " " 2SC536 2SC945 2SD227 2SC1070 2SC787 2SC930 " " 2SC387 2SC930 " " 2SC387 2SC945	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor """ """ Transistor 4 3 5	.75 1.05 .30 8.95 55D) 4.95 .395 6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 1.55 2 SEMIC 1.95 1.95 1.95 1.95 1.95 1.95 1.95 1.95	L301 HF302 HF303 HF303 X1 L103 O N D U Q704 IC500 D301 D502 D505 D508 D511 D514 D515 D518 D519 D522 O N D U C500 D101 D103 D109 D107 D108 D301	JCTOR 1,302,501 ,506,507,,509,510,,512,513, ,516,517, ,520,521, JCTOR 1,102,106 ,104,105	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " " " " " " " " " " " " " " " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " L.E.D. L.E.D. L.E.D. I.C. Variable Capacitance Diode " " " Zener Diode Varistor Diode	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 1.15 1.60 1.60
L504, L501 L110 HF30: HF30: X1 Q101 Q104 Q106 Q301 Q302 Q305 Q503 Q501 Q505 Q508 Q504 Q703 Q101 Q102 Q103 Q103 Q104 Q105 Q104 Q105 Q104 Q105 Q104 Q105 Q104 Q105 Q104 Q106 Q106 Q106 Q107 Q107 Q107 Q108 Q108 Q109 Q109 Q109 Q109 Q109 Q109 Q109 Q109	,102,103 ,105,107 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701 ,301,302 ,304,305 ,307,308	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " 2SC536 2SC945 " 2SD227 2SC1070 2SC787 2SC930 " " 2SC387 2SC930 "	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator A 3 5 Transistor Transistor Transistor Transistor Transistor	.75 1.05 .30 8.95 .55D) 4.95 .3.95 .6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 2.30 1.50 1.55 2 SEMIC 1.95 1.95 1.65 1.95 1.95 1.95 1.95 1.95 1.95	L301 HF302 HF303 X1 L103 CONDUCTOR	4: 4: 4: 4: 4: 4: 4: 5. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7. 7.	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " 1S1587 " SLP123B SLP123B SLP123B SLP123B VD1121 1S188 " " RD51 VD1121 1S188 " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " " " " " " " " " " " "	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 1.15 1.60 1.60 5.00 1.85 1.85 1.95 95
L504, L501 L110 HF30: HF30: HF30: HF30: X1	,102,103 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 2SC536 2SC945 2SD227 2SC1070 2SC787 2SC930 2SC387 2SC387 2SC387 2SC387 2SC387 2SC387 2SC387 2SC387	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (FV45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor Transistor Transistor 4 3 5 Transistor	.75 1.05 .30 8.95 55D) 4.95 .37 1.50 1.35 1.65 1.50 1.50 1.55 2 SEMIC 1.95 1.65 1.50 1.50 1.95 1.65 2.30	L301 HF302 HF303 HF303 X1 L103 O N D U Q704 IC503 D301, D502, D505, D508, D5114 D515, D518 D519, D522 O N D U C500 D101 D103 D109 D107 D108 D301, D502 D503 D504	4: 4: 4: 4: 4: 4: 4: 50 T O R 1,302,501 503,504,,506,507,,509,510,,512,513, 516,517, 520,521	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " 1S1587 " SLP123B SLP123B SLP123B SLP123B VD1121 1S188 " " RD51 VD1121 1S188 " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " " " " " " " " " " " "	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 1.15 1.60 1.60
L504, L501 L110 HF30: HF30: HF30: X1 Q101 Q104 Q106 Q301 Q302 Q305 Q508 Q504 Q703 Q101 Q102 Q102 Q103 Q104 Q105 Q104 Q105 Q104 Q703	,505 43 43 43 43 1 43 2 43 3 43 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 2SC930 2SC945 2SD227 2SC1070 2SC787 2SC930 2SC387 2N4258 2SK44D 2SC536 "	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (FV45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor Transistor Transistor 4 3 5 Transistor	.75 1.05 .30 8.95 55D) 4.95 .3.95 6C-18U) 7.70 1 SEMIC 1.35 1.65 1.50 2.30 1.55 2 SEMIC 1.95 1.95 1.50 2.30 1.50 2.30 1.55 2.50 2.30 1.55 2.50 2.30 1.55 3.50 3.50 3.50 3.50 3.50 3.50 3.50	L301 HF302 HF303 X1 L103 O N D U CO N	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 50 C T O R 1,302,501 503,504 506,507 509,510 512,513 7 512,513 7 512,513 7 512,106 7 104,105 7 104,105 7 104,105	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " 1S1587 " SLP123B SLP123B S TC4011P MV2101 MV201 MV2101 MV2101 S188 " " RD51 VD1121 1S188 " " " " " " " " " " " " " " " " " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " " " " " " " " " " " " " " "	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 1.15 1.60 1.60 5.00 1.85 1.85 1.95 95
L504, L501 L110 HF301 HF301 X1 Q101 Q104 Q106 Q301 Q302 Q305 Q503 Q501 Q505 Q508 Q504 Q703 Q101 Q102 Q103 Q303 Q501 Q104 Q703 Q505 Q506 Q506 Q507 Q509 Q509 Q509 Q509 Q509 Q509 Q509 Q509	,102,103 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 2SC536 2SC945 2SD227 2SC1070 2SC787 2SC930 2SC387	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Filter (TFU45 Ceramic Filter (TFU45 Ceramic Filter (TFU45 Ceramic Filter (TFU45 A 3 5 Transistor Transistor Transistor 4 3 5 Transistor	.75 1.05 .30 8.95 .55D) 4.95 .3.95 .6C-18U) 7.70 1 SEMIC 1.35 .95 1.65 1.50 .95 1.55 2 SEMIC 1.95 1.95 1.50 2.30 .95 1.55 2.30 .95 1.55 2.30 .95 1.55 2.30 .95 1.55 2.30 .95 1.55 2.30 .95 1.50 .95 1.50 .95 1.50 .95 1.50	L301 HF302 HF303 X1 L103 CONDU CONDU CONDU CONDU CODO CODO CODO CODO CODO CODO CODO CO	4: 4: 4: 4: 4: 4: 4: 4: 4: 50	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " 1S1587 " SLP123B SLP123B S TC4011P MV2101 MV201 MV2101 MV2101 S188 " " RD51 VD1121 1S188 " " " " " " " " " " " " " " " " " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " " L.E.D. L.E.D. L.E.D. I.C. Variable Capacitance Diode " " " " Zener Diode Varistor Diode " " Diode	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 "" 1.15 1.60 1.60
L504, L501' L110 HF30: HF30: HF30: X1 Q101 Q104 Q106 Q301 Q302 Q305 Q508 Q504 Q703 Q101 Q102 Q103 Q103 Q104 Q105 Q104 Q105 Q103 Q104 Q105 Q104 Q105 Q105 Q106 Q106 Q106 Q106 Q106 Q106 Q106 Q106	,102,103 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701 ,301,302 ,304,305 ,307,308	51049 51050 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 " 2SC536 2SC945 2SD227 2SC1070 2SC787 2SC930 " 2SC387 2N4258 2SK44D 2SC536 " 2SC945 2SC945	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (FU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor Transistor Transistor 4 3 5	.75 1.05 .30 8.95 1.55D) 4.95 .3.95 1.65-18U) 7.70 1 SEMIC 1.35 1.65 1.50 2.30 1.50 1.55 2 SEMIC 1.95 1.65 1.50 1.95 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.5	L301 HF302 HF303 HF303 X1 L103 O N D U Q704 IC503 D301, D502, D505, D508, D511, D514 D515, D518 D519 D522 O N D U C500 D101 D103 D109 D107 D108 D301, D502 D503, D504 D514 D517 D518 D514	4: 4: 4: 4: 4: 4: 4: 50 T O R 1,302,501 503,504,,506,507,,509,510,,512,513, 516,517, 520,521	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " SLP123B SLP123B SLP123B VD1121 1S188 " RB51 VD1121 1S188 " " 1S1587 " SLP123B " " RS51 " RD51 VD1121 1S188 " " " 1S1587 " SLP123B	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " L.E.D. L.E.D. L.E.D. Zener Diode Varistor Diode " " " " " " " " " " " " " " " " " " "	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 1.15 1.60 1.60 1.85 1.85 1.95 95 1.05
L504, L501 L110 HF30: HF30: HF30: X1 Q101 Q104 Q106 Q301 Q505 Q508 Q504 Q703 Q101 Q102 Q102 Q103 Q104 Q105 Q505 Q508 Q504 Q703	,505 43 43 43 43 1 43 2 43 3 43 43 43 43 43 43 43 43 43 43 43 43 43 4	51049 51050 51051 51052 51053 51054 51055 2SC1674 "2SA733 2SK49 2SC930 " 2SC536 " 2SC945 2SD227 2SC1070 2SC787 2SC930 " " 2SC387 2SC44D 2SC536 " " 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor Transistor Transistor 4 3 5	.75 1.05 .30 8.95 .55D) 4.95 .3.95 .6C-18U) 7.70 1 SEMIC 1.35 .95 1.65 1.50	L301 HF302 HF303 X1 L103 O N D U CO N	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 50 T O R 1,302,501 503,504 506,507 509,510 512,513 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " " 1S1587 " SLP123B SLP123B S TC4011P MV2101 MV201 " RD51 VD1121 1S188 " " " " SLP123B " " SLP123B " " " " " SLP123B " " " " " " " " " " " " " " " " " " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode "" "" L.E.D. L.E.D. I.C. Variable Capacitance Diode "" "" Zener Diode Varistor Diode "" "" Diode "" "" Varistor	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 1.15 1.60 1.60 5.00 1.85 1.85 1.05 95 95
L504, L501 L110 HF301 HF301 X1 Q101 Q104 Q106 Q301 Q302 Q305 Q508 Q504 Q703 Q101 Q102 Q103 Q303 Q306 Q104 Q102 Q103 Q306 Q505 Q509 Q509 Q509 Q509 Q509 Q509 Q509	,505 43 43 43 43 1 43 2 43 3 43 43 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701 ,301,302 ,304,305 ,307,308 ,504,505 ,507,508 ,207,508 ,207,508	51049 51050 51051 51051 51052 51053 51054 51055 2SC1674 2SA733 2SK49 2SC930 2SC536 2SC945 2SD227 2SC1070 2SC787 2SC930 2SC387 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator 4 3 5 Transistor Transistor Transistor 4 3 5	.75 1.05 .30 8.95 55D) 4.95 .395 6C-18U) 7.70 1.35 1.65 1.50 2.30 1.50 1.55 2.5 EMIC 1.95 1.95 1.65 1.50 2.30 1.50 2.30 1.55 2.5 EMIC 1.95 1.95 1.95 1.50 2.30 1.50 2.30	L301 HF302 HF303 HF303 X1 L103 O N D U Q704 IC503 D301, D502, D505, D508, D511, D514 D515, D518 D519 D522 O N D U C500 D101 D103 D109 D107 D108 D301, D502 D503, D504 D514 D517 D518 D514	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 50 T O R 1,302,501 503,504 506,507 509,510 512,513 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " SLP123B SLP123B SLP123B VD1121 1S188 " RB51 VD1121 1S188 " " 1S1587 " SLP123B " " RS51 " RD51 VD1121 1S188 " " " 1S1587 " SLP123B	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode " " " " L.E.D. L.E.D. L.E.D. Zener Diode Varistor Diode " " " " " " " " " " " " " " " " " " "	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 1.15 1.60 1.60 1.85 1.85 1.95 95 1.05
L504, L501 L110 HF30: HF30: HF30: X1 Q101 Q104 Q106 Q301 Q505 Q508 Q504 Q703 Q101 Q102 Q102 Q103 Q104 Q105 Q505 Q508 Q504 Q703	,505 43 43 43 43 1 43 2 43 3 43 43 ,102,103 ,105 ,107 ,303,304 ,306,307 ,502,503 ,506,507 ,509,510 ,702,701 ,301,302 ,304,305 ,307,308 ,504,505 ,507,508 ,207,508 ,207,508	51049 51050 51051 51052 51053 51054 51055 2SC1674 "2SA733 2SK49 2SC930 " 2SC536 " 2SC945 2SD227 2SC1070 2SC787 2SC930 " " 2SC387 2SC44D 2SC536 " " 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945 2SC945	RF Choke, 8.2 mH VHF Coil Crystal Filter (10M15 Ceramic Filter (CFU45 Ceramic Discriminator Crystal, 10.245 MHz (H 4 3 5 Transistor Transistor Transistor 4 3 5	.75 1.05 .30 8.95 .55D) 4.95 .3.95 .6C-18U) 7.70 1 SEMIC 1.35 .95 1.65 1.50	L301 HF302 HF303 X1 L103 O N D U CO N	4: 4: 4: 4: 4: 4: 4: 4: 4: 4: 50 T O R 1,302,501 503,504 506,507 509,510 512,513 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521 7,520,521	352019 351052 351053 351053 351054 351055 352017 S 2SA642 TC4011P 1S188 " " " " 1S1587 " SLP123B SLP123B S TC4011P MV2101 MV201 " RD51 VD1121 1S188 " " " " SLP123B " " SLP123B " " " " " SLP123B " " " " " " " " " " " " " " " " " " "	Choke Coil, 3.9 uH Crystal Filter (10M15A) Ceramic Filter (CFU455D) Ceramic Discriminator Crystal, 10.245MHz (HC-18U VHF Coil Transistor I.C. Diode "" "" L.E.D. L.E.D. I.C. Variable Capacitance Diode "" "" Zener Diode Varistor Diode "" "" Diode "" "" Varistor	1.05 8.95 4.95 3.95 7.70 .45 1.20 5.00 .60 "" 1.15 1.60 1.85 1.85 1.05 .95 .95

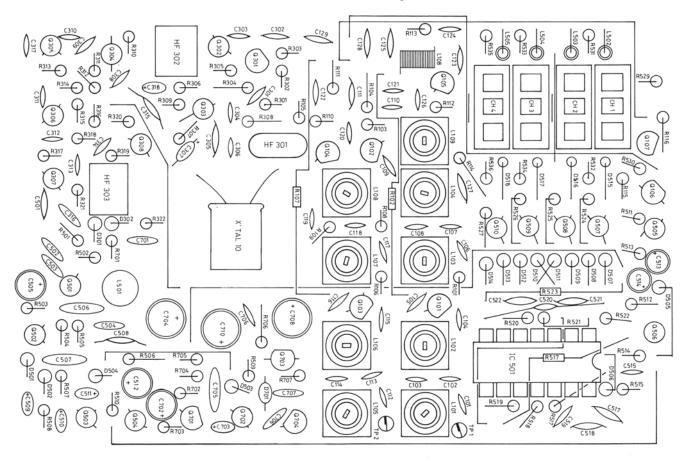
N/A: Not Applicable NSP: Non Serviceable Part

Ref.		Mfr's Sugg	Ref.		Mfr's Sugg				
No.	Description	Ret. Price	No.	Description	Ret. Price				
0102 107	0		ACITORS	4	D /FOT . 00-1				
C102,107 C110	Ceramic, lpF/50V " 2pF/50V	.45	C105,111,122,515 C116,125	" 0.005u					
C304	" 3pF/50V	.45	C127,128,129,302,	" 0.01uF					
C113,118 C101,103,106,108,	" 6pF/50V " 8pF/50V	.45 .45	501,709 C316		uF/50V " .45				
126 C121	" " " "	"	C504		uF/50V " .45				
C104,112,114,117,	" 15pF/50V " 30pF/50V	.45	C502,503,706 C707	0.0047	uF/50V " .45 uF/50V " .45				
119 C124	" 4000/507	45	C701	" 0.01uF					
C306	" 40pF/50V " 70pF/50V	.45 .45	C506,507,705 C315,508	" 0.047u	,				
C109,115,123,301, 317,519,520	" 100pF/50V	.45	C704,708,710	Electrolytic, 10					
C305,517,518,521,	" 200pF/50V		C512 C505	10	uF/10V .60 uF/10V .65				
120,309,313,522 C303,308,310,311,	" " " " " " " " " " " " " " " " " " "	.45	C513,514 C702		2uF/10V .55 .luF/10V .55				
312,314	" " " "	.43	C307,309,510,703	" 3	.3uF/10V .75				
			C511,318	" 0	.47uF/35V 1.20				
			ACITORS						
C114 C302	Ceramic, 2pF/50	0V <u>+</u> 0.25pF .45 0V <u>+</u> 10% .45	C108 C121,125,310	Ceramic, 8pF/5					
C106,128,313,520,	" 100pF/		C112,501,523	" 0.0033	uF/50V " "				
521,305,309 C103,312,516,517,	" 200pF/		C129,128 C704	0.0441	/50V " .45 uF/50V +20% .45				
518,519	" "	" "	C705	0.0082	uF/50V " .45				
C301,303,304,306, 307,308	" 500pF/	′50V " .45 " " "	C515 C311,508,706,710	" 1000pF " 0.01uF					
C107	" 0.5pF/		C315	" 0.047u	F/50V " .45				
C120 C113	" 18pF/5 " 25pF/5	.43	C703,707 C513,514		00uF/6.3V .45 0.22uF/10V .55				
C102,104,109,110,	" 0.001v	F/50V " .45	C701		.luF/10V .55 30uF/10V 1.85				
111,115,117,119, 122,126,127,504,	" "		C708,711 C118,709,316	" 3	30uF/10V 1.85 .3uF/10V .75				
505,506 C124	" 0.01uF	" " " /50V " .45	C509,522 C507,510,511		.47uF/35V 1.50 uF/25V .65				
C123,314,502	" 0.02uF	,	C512,503		OuF/10V .60				
Ref. Craig		Mfr's Sugg	Ref. Craig		Mfr's Sugg				
No. Key No.	Description	Ret. Price	No. Key No.	Description	Ret. Price				
	TRIMMEI	RS & VARI	ABLE RESISTO	R S					
VR1 4351038	Var Res 10k, Vol (VR1,2 4352009	Semi-Varible F	tes, 10k .75				
VR2 4351 4351039 ONLY	Var Res 10k, Sque	elch 2.05	VR4 4352 4351038 VR5 ONLY 4351039	Vol Cont W/Sw Squelch Cont	2.05				
			C101,105 4352007 C116 4352007	Trimmer Cap Trimmer Cap	1.50 1.50				
			4332007	II Immer Cop					
Ref.	Ref.		Ref.	Ref.					
No. Description		Description	No. Description	.	Description				
4 3	51 RESIST	ORS, CARBON, OF	MS, ± 10%, ¼W, 0.25¢ OR N	OTED					
R303 33 Ohms, ½ R114,309, 100 " "	Watt R104,108, 3	3.3k Ohms, ¼W	R112,524, 56k Ohms, 3	W R504,515,	470k Ohms, ¼W				
R114,309, 100 " " 506,705 " " "	301,304,	" " "	527 " " "	R311,313,					
R102,105, 470 " "	" 308,320, " 505,509,		R302,516, 100k " " 517,522, " " "	315,317 R518,519,					
R708 15 " "	" 704		523 " " "	520,521					
R113,528, 330 " " 703 " " "		5.6k " " 5.8k " "	R307 180k " " R101,103, 330k " "	R529,530, 531,532,	15k " 1/8W				
R312,314, lk " "	" 511,514	" " "	106,110, " " "	333,334,					
316,318, " " " 501,503 " " "	" R507,508, 1	10k " "	319 " " " " R512,513 390k " "	535,536 R707	270k " ¼W				
R306 1.5k " "	" R510	33k " "	R305,502 470k " "	R706	820 " "				
R310 2.7k " "	"								
4352 RESISTORS									
R112,307, 100 Ohms,	14W R114,128,	10k Ohms, W		¹ 4W R706 " R130,320	270k Ohms, ¼W 220 " "				
704 " " R528,707 330 "	" 511,512 " R101,104,	33k " "	R105,301, 470k "	" R122	270 " "				
R701 15 "	" 107,110, " 111,115,		309,311,	" R705 " R118,124,	820 " " 22k " "				
R302,308, 2.7k "	" 513		R507,509, 560k "	319,322	" " "				
310,312, " "	" R529,530, " 531,532	56k " "	522,523,	" R502 " R113	47k " " 68k " "				
R106,316, 3.3k "	" R108	82k " "	R123,304, 1.8k "	" R103,121,					
514,703 " " R317,318 5.6k "	" R520,521, " 524,525	100k " "	324	" 501 " R116,120,					
R125,127, 6.8k "	" R102	150k " "	R126 3.9k "	" 129					
515,518 "	" R306,315	330k " "	R321 220k "	ı					









4352 P.C.B. LAYOUT (Top View)

