

PARTS LIST * ARIES MODULE 317 * V C O

PART NUMBER	QUANTITY	DESCRIPTION	VALUE AND RATINGS
C1,2	2 3	capacitor, tantalum	1mfd, 50v
C3, 10	2	capacitor, disc	100pf
C4	1	same as above	33pf
C5,6	2	same as above	20pf
C7, 11, 14	3	same as above	150pf
C8, 13	2	same as above	47pf
C9, 20	2	same as above	.001mfd (1000 pf)
C12	1	same as above	10pf
C15, 17	2	capacitor, mylar, mica, or poly.	.47mf, 25v, 10%
C16, 18	2	same as above	0.001mf, 10%
C19	1	capacitor disc	330pf
D1 thru 6	6	diode, silicon	1N 914, 1N 4148 (or equivalent)
P1,2,4.	3	potentiometer, 1/4" shaft	100K linear
P3	1	same as above	100K log
Q5, 8, 10, 11, 12	5	transistor, NPN	TE-3393 or 2N-3393
Q9	1	field effect transistor N-channel	E 212 (siliconix)
Q4, 14 Q6, 7, 13	2 3	transistor, PNP	KE4392 (") 2N 3638
R1	1	resistor, metal film	150K, 1%
R2	1	resistor, carbon	1.5m, 10%

PARTS LIST * ARIES MODULE 317 * V C O

PART NUMBER	QUANTITY	DESCRIPTION	VALUE AND RATINGS
R3,4,5,6,8	5	resistor, metal film	100k, 1%
R7	1	same as above	60.4K, 1%
R10, 11	2	same as above	475K, 1%
R12	1	resistor, carbon	10 ohm, 10%
R13	1	same as above	6.8K, 10%
R14, 38, 64,67	4	same as above	10K, 10%
R15, 16, 36,56 58,61,62,63,69	9	same as above	100k, 10%
R17 40,53,54,65	5	same as above	1K, 10%
R18	1	same as above	4.7K, 10%
R19, 20	2	resistor, metal film	30.1K, 1%
R21	1	resistor, carbon	12K, 10%
R22, 44, 45	3	same as above	33K 10%
R23, 26	2	resistor, metal film	2.0K, 1%
R24, 27	2	same as above	1.0K, 1%
R25,28	2	resistor, carbon	220ohm, 10%
R29, 30	2	same as above	3.3K; 10%
R31	1	same as above	2.2K, 10%
R32, 34	2	same as above	680 ohm, 10%
R33	1	same as above	100ohm, 10%
R35	1	same as above	3.9K, 10%
R37, 46, 48	3	same as above	68K, 10%
R39, 60	2	same as above	1.5K, 10%
R41, 50, 52	3	same as above	47K, 10%
R42, 51	2	same as above	330ohm, 10%

PARTS LIST * ARIES MODULE 317 * V C O

PART NUMBER	QUANTITY	DESCRIPTION	VALUE AND RATINGS
R43, 47	2	resistor, carbon	18k, 10%
R49	1	same as above	27k, 10%
R55, 57, 68	3	same as above	39k, 10%
R59	1	same as above	390 ohm, 10%
R66	1	same as above	470 ohm, 10%
R70	1	resistor, metal film	332k, 1%
S1	1	switch, toggle	DPDT
T1, T3, T4	3	trimpot	10k lin
T2, 5, 6	3	same as above	50k lin
U1,3,5,6,7	5	operational amplifier	LM 301 A
U2 U4	1	} operational transconductance amplifiers	CA3080
U4 U2	1		CA 3080A (RCA)
	1	printed circuit board	
	1	front panel	
	4	knobs, 1/4" shaft	
	1	frame	
	1	bracket, small	
	1	bracket, larger	
	12	jack, miniphone	
	2	p c card guide	
	6	4-40 nut	
	6	4-40x3/8" machine screw	
	2	insulating washer	