

FILTERS - ENVELOPS - RING MODULATORS - REVERBERATION

FILTER 1 LOW PASS / RESONATOR / OSC FREQUENCY RESPONSE LEVEL	FILTER 2 LOW PASS / RESONATOR / OSC FREQUENCY RESPONSE LEVEL	FILTER 3 LOW PASS / RESONATOR / OSC FREQUENCY RESPONSE LEVEL	FILTER 4 LOW PASS / RESONATOR / OSC FREQUENCY RESPONSE LEVEL	FILTER 5 LOW PASS / RESONATOR / OSC FREQUENCY RESPONSE LEVEL	FILTER 6 LOW PASS / RESONATOR / OSC FREQUENCY RESPONSE LEVEL	FILTER 7 LOW PASS / RESONATOR / OSC FREQUENCY RESPONSE LEVEL	FILTER 8 LOW PASS / RESONATOR / OSC FREQUENCY RESPONSE LEVEL
ENVELOPE SHAPER 1							
DELAY	ATTACK	ON	DECAY	TRAPEZOID I	TRAPEZOID II	SIGNAL LEVEL	
ENVELOPE SHAPER 2							
DELAY	ATTACK	ON	DECAY	TRAPEZOID I	TRAPEZOID II	SIGNAL LEVEL	
ENVELOPE SHAPER 3							
DELAY	ATTACK	ON	DECAY	TRAPEZOID I	TRAPEZOID II	SIGNAL LEVEL	
RING MODULATOR 1	RING MODULATOR 2	RING MODULATOR 3	REVERBERATION 1	REVERBERATION 2			
LEVEL	LEVEL	LEVEL	MIX	LEVEL	MIX	LEVEL	

PETE TOWNSEND EMS SYNTHI 100 PATCH SHEET

PATCH NAME: _____

notes: _____

Y1 Y2 X FM

OCTAVE FILTER BANK							
63	125	250	500	1000	2000	4000	8000
BAND PASS CENTRE FREQUENCY (Hz)							
INPUT AMPLIFIER LEVEL							
CHANNEL 1	CHANNEL 2	CHANNEL 3	CHANNEL 4	CHANNEL 5	CHANNEL 6	CHANNEL 7	CHANNEL 8
EXTERNAL TREATMENT DEVICES							
1	2	SEND LEVEL	3	4	5	RETURN LEVEL	6

OSCILLATORS - NOISE GENERATORS - RANDOM CONTROL VOLTAGE

OSCILLATOR 1 sine SHAPE LEVEL ramp LEVEL FREQUENCY square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 2 sine SHAPE LEVEL ramp LEVEL FREQUENCY square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 3 sine SHAPE LEVEL ramp LEVEL FREQUENCY square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 4 sine SHAPE LEVEL ramp LEVEL FREQUENCY square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 5 sine SHAPE LEVEL ramp LEVEL FREQUENCY square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 6 sine SHAPE LEVEL ramp LEVEL FREQUENCY square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 7 square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 8 square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 9 square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 10 square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 11 square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY	OSCILLATOR 12 square / pulse SHAPE LEVEL ramp / triang. SHAPE LEVEL FREQUENCY
NOISE GENERATOR 1 COLOUR LEVEL		NOISE GENERATOR 2 COLOUR LEVEL		RANDOM CONTROL VOLTAGE GENERATOR MEAN VARIANCE VOLTAGE 1 VOLTAGE 2 KEY							

METERS - PITCH TO VOLTAGE CONVERTORS - KEYBOARD RANGE - SEQ RANGE

OUTPUT CH. 1	OUTPUT CH. 2	OUTPUT CH. 3	OUTPUT CH. 4	OUTPUT CH. 5	OUTPUT CH. 6	OUTPUT CH. 7	OUTPUT CH. 8	
Control Voltages	Control Voltages	Control Voltages	Control Voltages	Control Voltages	Control Voltages	Control Voltages	Control Voltages	
Signal Levels	Signal Levels	Signal Levels	Signal Levels	Signal Levels	Signal Levels	Signal Levels	Signal Levels	
SEQUENCER EVENT TIME								
PITCH-VOLTAGE CONVERTOR RANGE 1V/Oct	KEYBOARD OUTPUT RANGE Upper Keyboard PITCH KEY VELOCITY Lower Keyboard PITCH KEY VELOCITY		SEQUENCER OUTPUT RANGE Layer 1 VOLTAGE A VOLTAGE B Layer 2 VOLTAGE C VOLTAGE D Layer 3 VOLTAGE E VOLTAGE F					
ENVELOPE FOLLOWER 1 RANGE	ENV CONTROL KEY 1 KEY 2	ENV CONTROL KEY 3 KEY 4	RETRIGGER KEY RELEASE	RETRIGGER KEY RELEASE	SLEW LIMITER 1 SLEW RATE	SLEW LIMITER 2 SLEW RATE	SLEW LIMITER 3 SLEW RATE	OPTION 1
ENVELOPE FOLLOWER 2 RANGE	RETRIGGER KEY RELEASE KEY RELEASE of NEW PITCH	RETRIGGER KEY RELEASE KEY RELEASE of NEW PITCH						

PETE TOWNSEND EMS SYNTHI 100 MID SECTION

PAN OUTPUTS CHANNELS 1-4 LEFT CHANNELS 5-8 RIGHT	INDIVIDUAL CHANNEL OUTPUTS 1 2 3 4 5 6 7 8	EXTERNAL TREATMENT DEVICES SEND TO DEVICE 1 2 3 4 SEND FROM DEVICE 1 2 3 4	INPUT AMPLIFIERS 1 2 3 4 5 6 7 8
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OPTION 1 2	CONTROL PATCHBOARD INPUTS OUTPUTS	DOUBLE KEYBOARD	IMPORTANT NOTICE DO NOT POWER UP PANEL SOCKET POWER FUSE SA SUPPLY
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AUDIO SIGNALS	RING MODULATORS								ENVELOPE SHAPERS				FILTERS								OSCILLATORS												OUTPUT CHANNELS								EXTERNAL TREATMENT DEVICES				SEQUENCER CONTROL								SCOPE				GROUND																																										
	1	2	3	4	5	6	7	8	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
INPUT AMPLIFIERS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OUTPUT CHANNELS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
EXTERNAL TREATMENT RETURNS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
SEQUENCER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
NOISE GENERATORS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 4	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 7	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 9	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80																			
OSCILLATOR 10	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	6																																				