

Technical Manual

UREI GATE1

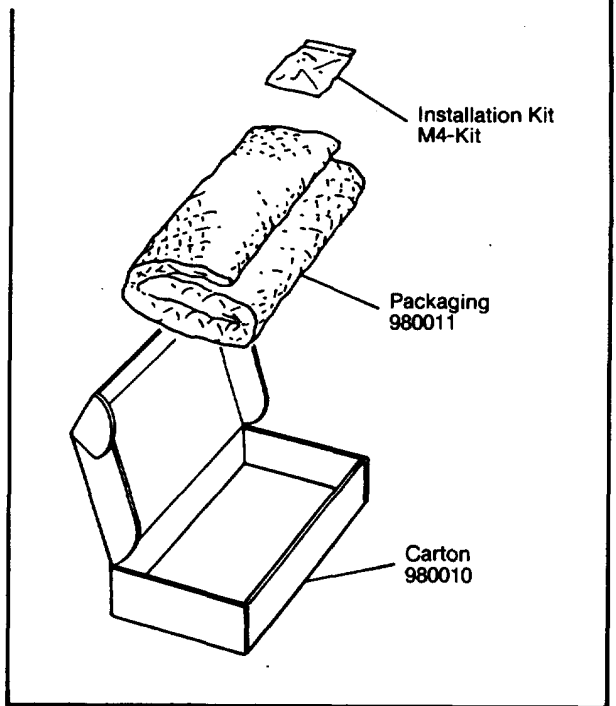
SPECIFICATIONS

- Input: Balanced
- Input Impedance: > 20k ohms
- Maximum Input Level: +20 dB
- Frequency Response: 20 Hz to 20 kHz ± 0.5 dB
- Threshold of Gating: -40 to +6 dBu
- Attack Time: 1 μ s/dB to 20 ms/dB
- Hold Time: 20 ms - 2.25s
- Release Time: 0.8 ms/dB to 200 ms/dB
- Gate Attenuation: 0 to 60 dB
- Key Filter Type and Frequency: Bandpass, 60 Hz to 6 kHz, Q = 5
- Output: Balanced
- Maximum Output Level: +20 dB into 600 Ohms
- Dynamic Range: < 110 dB
- Total Harmonic Distortion: < 0.006% typ., 0.02% max. (0 dBu input @ 1 kHz)
- Controls: User adjustable potentiometers for gate threshold, gate attenuation, attack time, hold time, release time, and key filter center frequency. Pushbuttons for ducking mode, key filter insert, monitoring key input, linking module to other, and bypass. Rear-panel screwdriver accessible switch for phone jack programming.
- Indicators: 8-segment LED VCA level display. LED indicators for keyfilter, ducking, over-threshold trigger, mute, key listen, link, and bypass.
- Computer Control or Monitoring: Mute, VCA Volume, Trigger transmit upon over-threshold, Threshold level, Audio VU level, Bypass
- Connectors:
 - Input and Output: XLR-type 3 pin (pin 2 high)
 - Key Insert or Signal In/Out: 6.3mm (1/4 in.) phone jack
- Front Panel Dimensions: 31 x 132mm (1-3/16 x 5-1/8 in.)
- Finish: Black anodized
- Required Equipment: UREI Platform RACK1

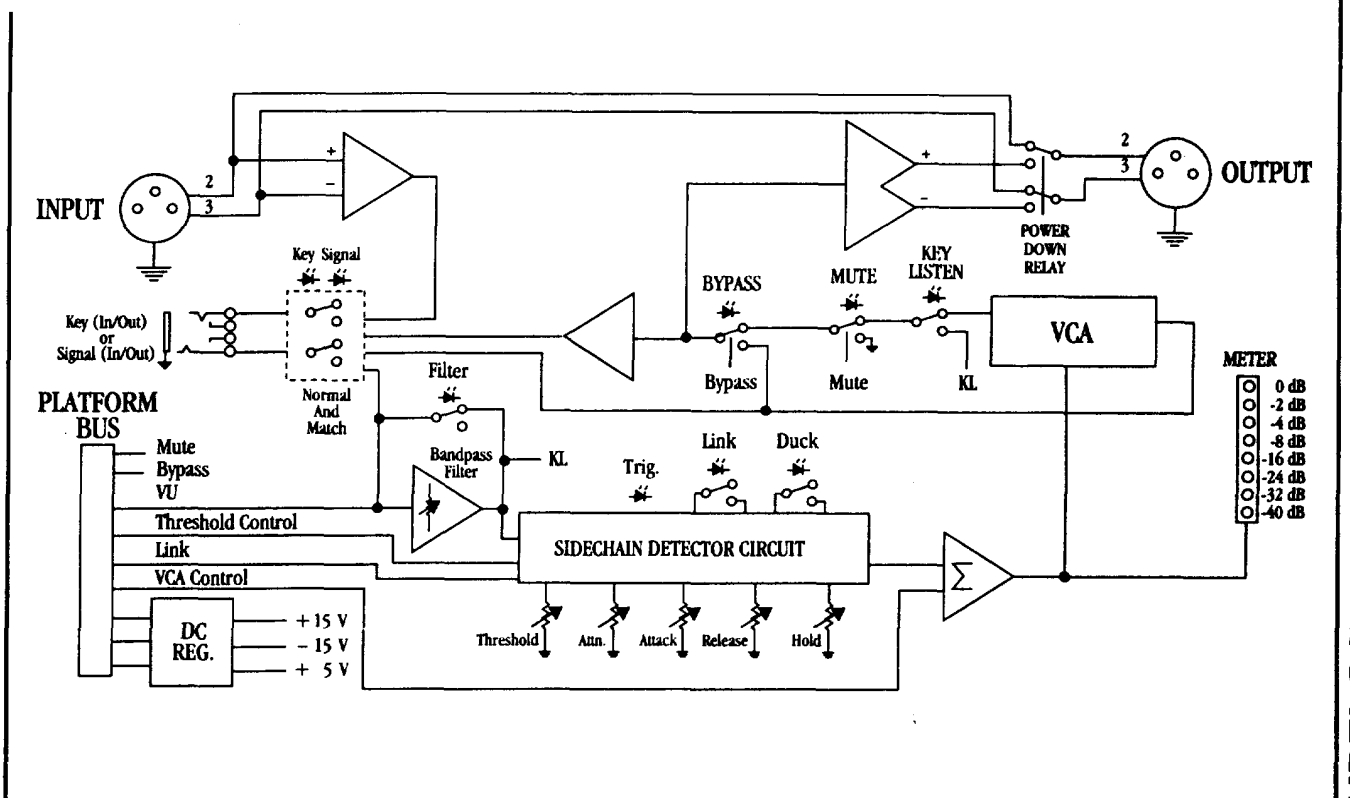
GATE MODULE



PACKAGE

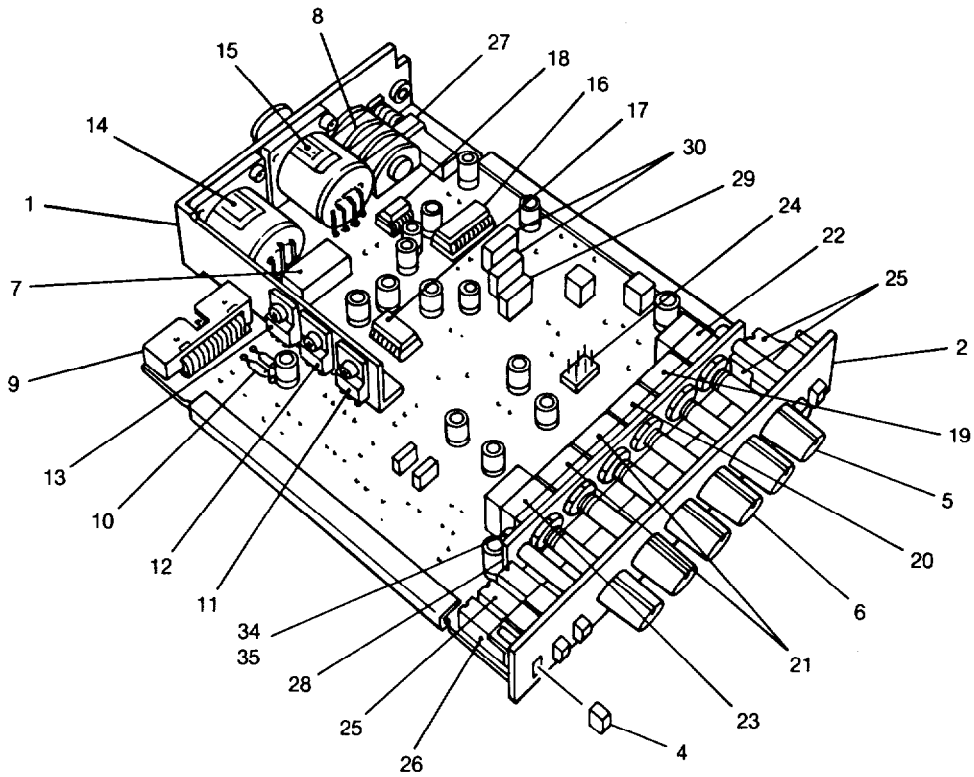


BLOCK DIAGRAM

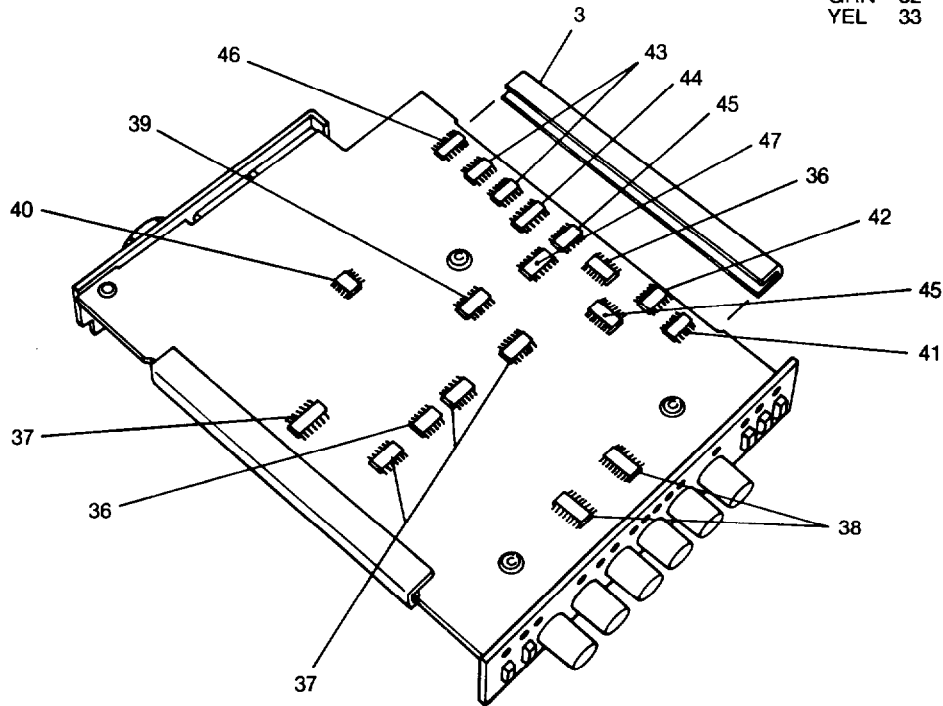


UREI GATE1

COMPONENT EXPLODED VIEW



FRONT AND REAR
PANEL LEDS:
RED 31
GRN 32
YEL 33



COMPONENT PARTS LIST

UREI GATE1

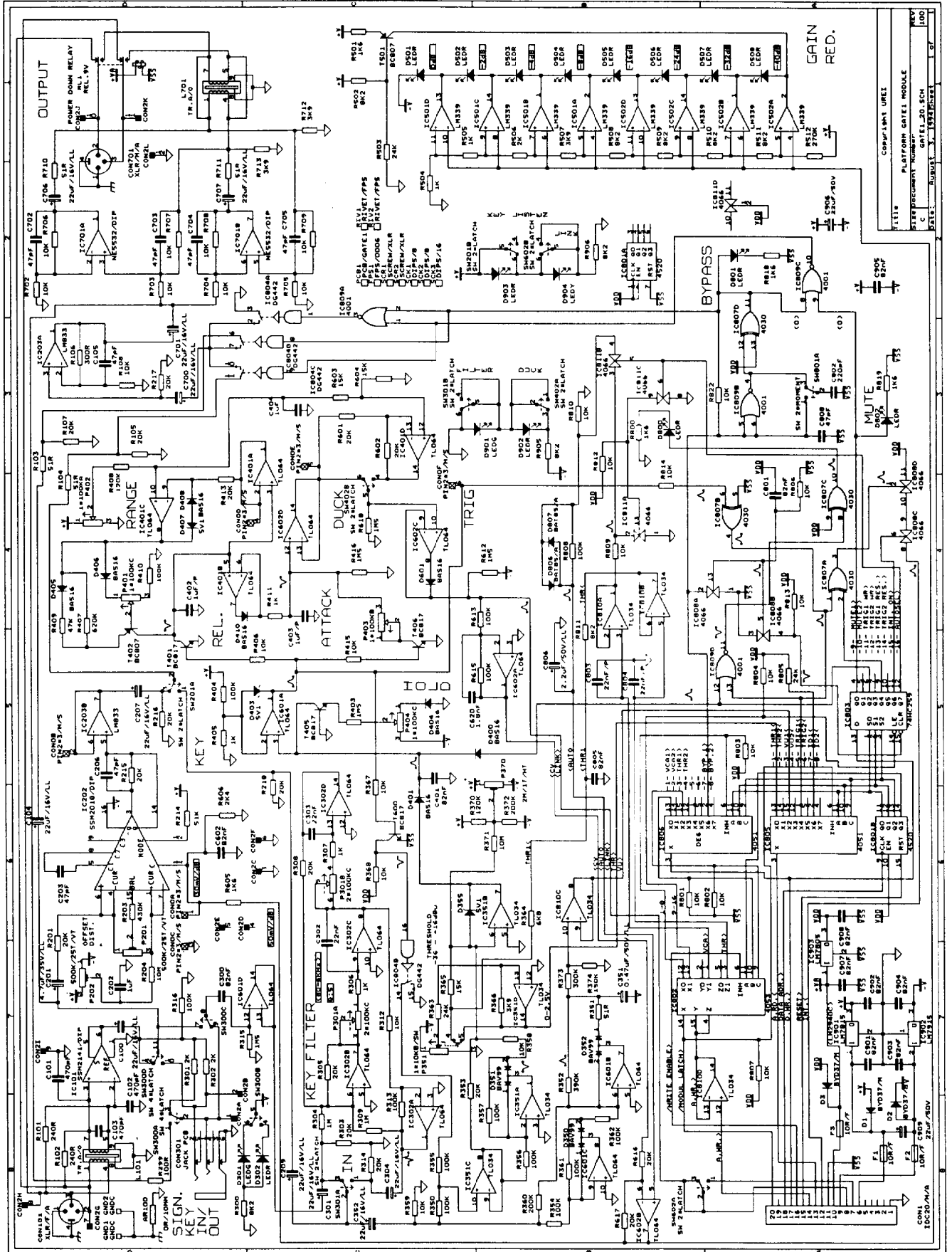
	Part Number	Qty	Description	Ref. Des.
1	GATE1-B	1	Rear Panel, GATE1	
2	GATE1-F	1	Front Panel, GATE1	
3	770200	2	Module Protector	
4	790010	5	UREI Push Button, blk	
5	790001	3	Knob, UREI, white line	
6	790002	3	Knob, UREI, blue line	
7	705009	1	Relay, DPDT, 9V, DIP	RL1
8	720001	1	Jack, 1/4" St, PC mt	CON301
9	722220	1	IDC20, Male, Rt Angle	CON1
10	005010	3	Axial Fuse Resistor, 10R	F1, F2, F3
11	647805	1	IC, LM7805, TO220	IC903
12	647915	1	IC, LM7915, TO220	IC902
13	647815	1	IC, LM7815, TO220	IC901
14	720022	1	XLR M, PC mt, Rt angle	CON701
15	720021	1	XLR F, PC mt, Rt angle	CON101
16	623018	1	IC, SSM2018	IC202
17	635532	1	IC, NE5532	IC701
18	623141	1	IC, SSM2141	IC101
19	180410	1	Pot, 100KA, Lin	P402
20	181410	1	Pot, 100KB, Log	P403
21	182410	2	Pot, 100KC, Inv Log	P401, P404
22	187310	1	Pot, 100KB, Log +sw	P351
23	192410	1	Pot, Dual, 100KC, Inv Log	P301
24	720206	1	Header, 2x3	CON0
25	710002	4	Sw, push, DPDT	SW201, SW301, SW402, SW602
26	710003	1	Sw, push, DPMC	SW801
27	710004	1	Sw, Push, 4PDT	SW300
28	770006	1	GATE1 front panel support	
29	100520	1	Trimpot, 1 turn, 2M, horiz.	P370
30	110450	2	Trimpot, 500K, vert.	P201, P202
31	403001	14	LED, Red, 2mA	D302, D501, D502, D503, D504, D505, D506, D507, D508, D800, D801, D802, D902, D903
32	403002	2	LED, Grn, 2mA	D301, D901
33	403003	1	LED, Yel, 2mA	D904
34	772112	2	Scrw, M3x6mm	
35	772502	2	Lockwasher, ext, M3	
36	650034	2	SMD IC, TL034	IC351, IC810
37	650064	4	SMD IC, TL064	IC302, IC401, IC601, IC602
38	650339	2	SMD IC, LM339	IC501, IC502
39	650442	1	SMD IC, DG442DY	IC804
40	650833	1	SMD IC, LM833M/MC33078D	IC203
41	654001	1	SMD IC, 4001	IC809
42	654030	1	SMD IC, 4030	IC807
43	654051	2	SMD IC, 4051	IC805, IC806
44	654053	1	SMD IC, 4053	IC802
45	654066	2	SMD IC, 4066	IC808, IC811
46	654520	1	SMD IC, 4520	IC801
47	657259	1	SMD IC, 74HC/HCT259	IC803
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UREI GATE1

SCHEMATIC DIAGRAM

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COMPONENT UREI
 PART PLATFORM GATE1 MODULE
 STEP DOCUMENT NUMBER: GATE1.20.SCH
 REV 100
 DATE 11/19/78