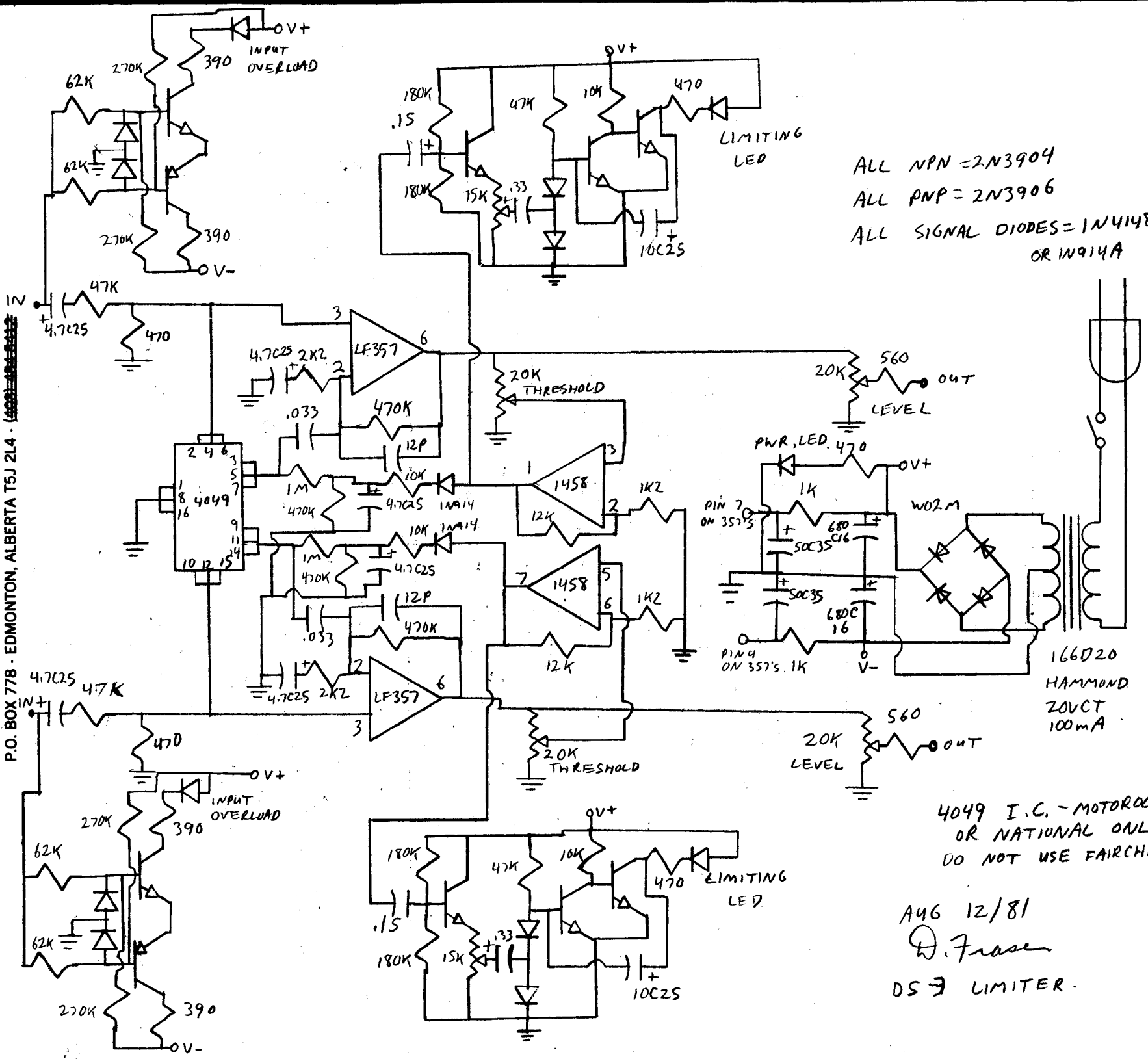




FRASER ELECTRONICS

P.O. BOX 778 · EDMONTON, ALBERTA T5J 2L4 · (403) 442-1111



ALL NPN = 2N3904
ALL PNP = 2N3906
ALL SIGNAL DIODES = 1N4148
OR 1N914A

4049 I.C. - MOTOROLA
OR NATIONAL ONLY.
DO NOT USE FAIRCHILD

AUG 12/81
D. Fraser
DS9 LIMITER.

FRASER ELECTRONICS

P.O. BOX 778 · EDMONTON, ALBERTA T5J 2L4 · (403) 428-9655

- 1 - SET MIXER CONTROLS TO NORMAL OPERATING POINT (ABOUT 6 FOR T.T. LEVELS & MASTER POTS -
- 2 - ADJUST LEVEL CONTROLS ON LIMITER ABOUT 1/4 ROTATION CLOCKWISE
- 3 - TURN THRESHOLD CONTROLS FULL CLOCKWISE
- 4 - PLAY A RECORD
- 5 - SLOWLY TURN THRESHOLD CONTROLS COUNTER CLOCKWISE UNTIL A SLIGHT DROP IN VOLUME OCCURS.
- 6 - THE THRESHOLD IS NOW SET.
- 7 - TURN THE LEVEL CONTROLS UP (CLOCKWISE) UNTIL THE AMP IS CLIPPING - THIS IS WHEN THE SOUND BEGINS TO DISTORT.
- 8 - NOW BACK OFF ON THE LEVEL CONTROLS (COUNTER CLOCKWISE) UNTIL THE DISTORTION IS NO LONGER HEARD. THIS IS ABOUT 10° - 25° OF ROTATION
- 9 - NOW IF YOU PUSH THE CONTROLS ON THE MIXER TO 10 THE SOUND SHOULD NOT DISTORT. IF IT DOES EITHER BACK OFF THE LEVEL SOME MORE, OR TURN THE THRESHOLD CONTROL SLIGHTLY FURTHER COUNTER CLOCKWISE.
- 10 - NOW IF YOU FOLLOWED THE ABOVE YOUR SPEAKERS ARE NOW ALMOST BLOW PROOF.

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NO KNOB	LIMITING 1V INPUT SETTING	5.2 = UNITY GAIN		
		OUTPUT ∞ LOAD	25K LOAD (YAMAHA AMP)	10K LOAD (FRASER AMP). .68 = UNITY GAIN.
0		0	0	0
1		.0003V	0	0
2		.14V	.14V	.14V
3		.42V	.38V	.72V
4		.7V	.58V	.46V
5		.95V	.78V	.62V
6		1.22V	1.00V	.84V
7		1.55V	1.28V	1.04V
8		1.9V	1.65V	1.38V
9		2.23	2.16V	2.08V
10		2.28V	2.28V	2.28V

THRESHOLD.

KNOB	INPUT
0	- NO THRESHOLD - NO LIMITING
1	- 3.7V
2	- 3.4V
3	- 3.2V
4	- 3.1V
5	- 1.5V
6	- .58V
7	- .14V
8	- .07V
9	- .038V
10	- .023V

S.S = .7V

MAX INPUT WITH NO
DISTORTION - THRESHOLD POT
SET TO 0 FOR NO
LIMITING = 3.5V RMS

MAX-OUTPUT = 7.8V RMS

THRESHOLD POT SET TO 5.5
- WILL TAKE 10V IN WITH NO
DISTORTION (OUTPUT POT SET TO 10
- OUTPUT - 2.85V RMS.

FRASER ELECTRONICS

INPUT
OVERDRIVE

LEVEL

LIMITING

THRESHOLD

THRESHOLD

LIMITING

LEVEL

INPUT
OVERDRIVE

DS-3 LIMITER

POWER

MADE IN
CANADA