

MODIFICATIONS TO
07-530-01/02 ART REV. A
P.C. ASSEMBLY
AS OF 9/1/90

MOD. #1 : Tack an 8.2K (76-822-01) resistor from jumper #21 to the leg of R120 closest to the input as illustrated on the pictorial.

This modification prevents very high level signals from exceeding the $V_{GS(off)}$ voltage of Q15 thus preventing the signal from "breaking thru" when the FET is in the off mode (chorus on).

or

Prevents weird noises from happening when the amp is played at very high levels with the chorus on.

MOD. #2 : "TEEPEE" two 1N754 (21A754-01) zener diodes opposing polarity, across R80 as shown on the pictorial.

This modification limits the input level to and prevents overloading of the delay IC (MN3007). When the input level to the MN3007 exceeds its rail voltage (15v p-p) the IC will "DC" at the output and refuse to pass a signal until power to the IC is cut then restored.

or

Prevents weird noises and "chorus lockup" from happening when the amp is played at very high levels with the chorus on.

NOTE: The zener diodes of MOD. #2 must have opposing polarity. The direction of the opposition, However, does not matter as illustrated below.



MOD. #3: Change Q18 from a J112 (96-112-01) to a 2N5638 (96-538-01).

The 2N5638 FET has a lower on resistance than the J112 thus causing less of a voltage drop across when in channel B which allows the channel A LED to be more fully turned off.

G-130CXL/130CXLH PREAMP
REVISION
07-530-01/07-530-02

THIS REVISION CHANGES IC7 FROM AN RC4558 (37-458-01) TO AN
NE5532 (37-532-01). THIS PREVENTS IC FAILURE DUE TO STATIC
ELECTRICITY. ELECTRICAL SPECIFICATIONS DO NOT CHANGE.

PARENT: 07-530-01

DATE: 3/10/91

D.A.

ADDITIONS:

PART #	QTY.	PART #	QTY.
*****	****	*****	****
<u>37-532-01</u>	<u>1</u>	-----	-----
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QUANTITY CHANGE:

PART #	FROM	TO	PART #	FROM	TO
*****	****	****	*****	****	****
<u>37-458-01</u>	<u>10</u>	<u>9</u>	-----	-----	-----
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DELETIONS:

PART #	PART #
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REASON FOR CHANGE: TO PREVENT I.C. FAILURE DUE TO
STATIC ELECTRICITY.

R & D BOM CHANGE REQUEST

BOUNCE _____ RE-OPEN

ENGINEER Rick C.

DATE 6-30-92

PART# 07A530-02

UNITS AFFECTED GX-130CH, U, Y

REASON FOR CHANGE REDUCE REVERB RETURN GAIN FOR
NEW REVERB PAN.
1 RESISTOR CHANGED.

PART#

QTY.

PART#

QTY.

ADDITIONS:

PART#	QTY.	PART#	QTY.
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

QUANTITY CHANGE:

<u>76-152-01</u>	@ <u>8</u>	TO <u>7</u>	_____	@ _____	TO _____
<u>76-222-01</u>	@ <u>5</u>	TO <u>6</u>	_____	@ _____	TO _____
_____	@ _____	TO _____	_____	@ _____	TO _____
_____	@ _____	TO _____	_____	@ _____	TO _____

DELETIONS:

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

NEW DOCUMENTATION REQUIRED
(SUCH AS DRAWINGS, PICT, SCHEM (PARTS LIST, ETC.) SPECS)

G-130CXLH PREAMP
PERFORMANCE SPECS
07-530-02

(Adjust AP-1 for symmetrical clipping at T.P. @ 12.)

GAIN: Channel A Gain, Volume, Sub, & Lead @ "10". Focus @ "0".
Channel B Gain, Volume, Low, Mid, & High @ "10".
Bright switch and chorus off. 1kHz input signal (+-3dB)

Channel A:

"0dB" input to FX send -----	84 dB Line Level
	72 dB Inst. Level
("-6dB") input to FX send -----	78 dB Line Level

Channel B:

"0dB" input to FX send -----	52 dB Line Level
	40 dB Inst. Level
"-6dB" input to FX send -----	46 dB Line Level
FX Return to Right & Left output -----	0 dB Line Level
	12 dB inst. Level
"0dB" input to reverb send -----	69 dB (150 ohm load)
Reverb return to right and left out ---	15 dB

MAXIMUM SIGNAL LEVEL ACCEPTED: "-6dB" input 10v p-p

FREQUENCY RESPONSE: (see Neutrik curves)

Gain and volume at "10" tones at "5" bright switch "off"
Chorus "off". (+- 3dB)

Channel A: Sub -----	10dB range @ 80Hz
Focus -----	24dB range @ 1kHz
Lead -----	13dB range @ 5kHz
Channel B: Low -----	24dB range @ 100Hz
Mid -----	14dB range @ 800Hz
High -----	30db range @ 10kHz

CHORUS:

Frequency Response: 60Hz to 10kHz (min.) -3dB points 1Khz ref.

Rate Control: Rate & depth @ "10" = 9.5Hz @ T.P. 15 (1Hz tol.)

Rate @ "0" ----- .15Hz @ T.P. 15 (.1Hz tol.)

Clock Freq: Rate & Depth @ "0" -- 149kHz @ T.P. 16 (25kHz tol.)

Clock Sweep: Depth @ "10" ----- 83kHz (10kHz tol)
to 340kHz (40kHz tol)
@ T.P. 16

LFO Threshold: 75mVp-p (min.) - 150mVp-p (max.) 1kHz
signal @ header pin #11

PART NO.	DESCRIPTION	QUANTITY	UM	MB	AVE COST
07A530-01	G-130CXL PREAMP SUBASY	1.00	EA		16.08008
06A530-01	G-130CXL PREAMP PC DRILL REV 0, ART REV A	1.00	EA	B	8.71000
10A101-21	AI 100PF 200V 10% NPD SA102A101KAA	4.00	EA	B	.14000
10A102-01	.001 50V 10% X7R AXIAL	2.00	EA	B	.07000
10A103-11	AI .01MFD 100V 10% SA201C103KAA	5.00	EA	B	.19750
10A104-01	AI 0.1MFD 50V 10% SA305C104KAA	5.00	EA	B	.30500
10A152-01	AI .0015 MFD 50V 10% SA101C152KAA	2.00	EA	B	.08000
10A153-01	AI .015 MFD 50V 10% SA105C153KAA	1.00	EA	B	.03900
10A222-01	AI .0022 MFD 50V 10% SA101C222KAA	3.00	EA	B	.10050
10A223-01	AI .022 MFD 50V 10% SA105C223KAA	6.00	EA	B	.22800
10A224-01	.22 MFD 50V 10% X7R SA405C224KAA	10.00	EA	B	1.67500
10A330-21	AI 33PF 200V 10% NPD	1.00	EA	B	.03800
10A331-11	330PF >=100V 10% NPD SA101A331KAA	1.00	EA	B	.03500
10A471-11	470PF >=100V 10% NPD SA101A471KAA	2.00	EA	B	.07000
10A472-01	.0047 MFD 50V 10% SA101C472KAA	3.00	EA	B	.10500
10A473-11	AI .047 MFD 100V 10% SA301C473KAA	7.00	EA	B	.39900
10A562-01	.0056 MFD 50V 10%	1.00	EA	B	.04000
10A682-01	AI .0068 MF 50V 10% SA101C682KAA	2.00	EA	B	.07000
12A105-51	AI 1.0MF/50V AXIAL EL .140DIA X .270L T&R	1.00	EA	B	.05600
12A106-11	AI 10 MF/16 V AX. ELEC .140 DIA X .270L T&R	3.00	EA	B	.16800
12A225-51	AI 2.2MF/50V AXIAL EL .140DIA X .270L T&R	3.00	EA	B	.16800
17-894-01	.187" PC TAB ON REEL STABLE LOCK 6024-6	4.00	EA	B	.05720
21A146-01	1N746ARL 3.3V ZEN DIOD	4.00	EA	B	.12400
21A437-01	1N4737ATR 7.5V 5% 1W	2.00	EA	B	.09800

09/13/90

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SLM ELECTRONICS

SINGLE LEVEL PARTS LIST 07A530-01

PART NO.	DESCRIPTION	QUANTITY	UM	MB	AVE COST
07A530-01	G-130CXL PREAMP SUBASY	1.00	EA		16.08008
21A754-01	1N754ARL 6.8V 1/2W ZEN	10.00	EA	B	.24800
21A914-01	1N914 OR 1N4148 T&R	15.00	EA	B	.20250
76-000-05	22 GA TINNED COPPER BUS WIRE 5K FT PUTUPS	27.00	EA	B	.02025
76-100-01	10 OHM 1/4W 5% RES T&R	1.00	EA	B	.00340
76-102-01	1K OHM 1/4W 5% RES T&R	4.00	EA	B	.01360
76-103-01	10K OHM 1/4W 5% RES TR	24.00	EA	B	.08160
76-104-01	100K 1/4W 5% RES T&R	20.00	EA	B	.06800
76-105-01	1 MEG 1/4W 5% RES T&R	8.00	EA	B	.02720
76-124-01	120K 1/4W 5% RES T&R	1.00	EA	B	.00340
76-152-01	1.5K 1/4W 5% RES T&R	8.00	EA	B	.02720
76-153-01	15K OHM 1/4W 5% RES TR	1.00	EA	B	.00340
76-182-01	1.8K 1/4W 5% RES T&R	2.00	EA	B	.00680
76-222-01	2.2K 5% 1/4W RES T&R	5.00	EA	B	.01625
76-223-01	22K OHM 1/4W 5% RES TR	11.00	EA	B	.03740
76-224-01	220K 1/4W 5% RES T&R	5.00	EA	B	.01700
76-272-01	2.7K 1/4W 5% RES T&R	2.00	EA	B	.00680
76-273-01	27K 1/4W 5% RES T&R	2.00	EA	B	.00680
76-331-01	330 OHM 1/4W 5% RES TR	2.00	EA	B	.00680
76-332-01	3.3K 1/4W 5% RES T&R	6.00	EA	B	.02040
76-333-01	33K OHM 1/4W 5% RES TR	7.00	EA	B	.02380
76-334-01	330K 1/4W 5% RES T&R	1.00	EA	B	.00340
76-392-01	3.9K 1/4W 5% RES T&R	3.00	EA	B	.01020
76-470-01	47 OHM 1/4W 5% RES T&R	4.00	EA	B	.01360
76-471-01	470 OHM 1/4W 5% RES TR	2.00	EA	B	.00650
76-472-01	4.7K 1/4W 5% RES T&R	7.00	EA	B	.02380
76-473-01	47K 1/4W 5% RES T&R	6.00	EA	B	.02040
76-682-01	6.8K 1/4W 5% RES T&R	4.00	EA	B	.01360
76-752-01	7.5K 1/4W 5% RES T&R	2.00	EA	B	.00680
76-822-01	8.2K 1/4W 5% RES T&R	2.00	EA	B	.00325

PART NO.	DESCRIPTION	QUANTITY	UM	MB	AVE COST
07-530-01	G-130CXL PREAMP ASSY	1.00	EA		41.76134
07A530-01	G-130CXL PREAMP SUBASY	1.00	EA	M	16.08008
10-473-03	.047 MFD POLYCAP BULK 10% 100V	1.00	EA	B	.03312
12-105-81	1.0 MFD NP RAD 50V CAP BULK	2.00	EA	B	.06200
12-106-81	10 MFD 50V RAD NP BULK 20% TOLERANCE	2.00	EA	B	.09200
12-107-32	100 MFD 35V EL RAD BUL L22 X D 10 X LS 5 MM	2.00	EA	B	.10800
12-109-12	1000MFD RAD/EL 16VBULK L 20 X D13 XLS 5MM	2.00	EA	B	.25200
12-225-81	2.2 UF 50V NP RAD BULK	7.00	EA	B	.20300
12-226-32	22 MFD 35V EL RAD BULK	4.00	EA	B	.10820
12-226-82	22 MFD 16V NP EL BULK L12MM X D6MM MAX	2.00	EA	B	.05800
12-476-32	47 MFD 35V EL RAD BULK L11 X DB X LS 5MM	4.00	EA	B	.16240
12-476-81	47 MFD 16V NP RAD BULK L13MM X D8MM MAX	2.00	EA	B	.09200
17-310-11	MFSS156-11-T HEADER	1.00	EA	B	.12359
21-224-01	RED LED RIGHT ANGLE	2.00	EA	B	.24000
21-225-01	GREEN LED RIGHT ANGLE	1.00	EA	B	.12000
21-226-01	YELLOW LED RIGHT ANGLE	1.00	EA	B	.12000
37-301-01	MN 3101 CLOCK BBD SER.	1.00	EA	B	.80000
37-307-01	MN3007 PANASONIC DELAY	1.00	EA	B	3.78000
37-458-01	RC 4558P IC CHIP	10.00	EA	B	1.10000
39-116-01	CLIFF S2-BNB-BLK/PC/A T/S JACK	2.00	EA	B	.52000
39-117-01	CLIFF S2-BBB-BLK/PC/A (T/R/S JACK)	2.00	EA	B	.62000
70-103-22	10K 15%@50% AUDIO 270 RED SHAFT	2.00	EA	B	.48600
70-104-23	100K REV AUDIO POT 15%@50% CCW	2.00	EA	B	.46200
70-132-01	10K-30% LINEAR POT BLUE SHAFT	2.00	EA	B	.47140
70-133-01	50K-30% LINEAR POT GREEN SHAFT	3.00	EA	B	.70710
70-202-22	2K OHM AUDIO 20%TOL, 15% @50%CW ROT	1.00	EA	B	.23570
70-306-01	250K LINEAR TAPER POT	1.00	EA	B	.24300
70-503-22	50K 10%@50% AUDIO POT BLACK SHAFT	1.00	EA	B	.24300

PART NO.	DESCRIPTION	QUANTITY	UM	MB	AVE COST
07-530-01	0-1300XL PREAMP ASSY	1.00	EA		41.76134
70-503-23	50K REV AUDIO POT NATURAL COLOR SHAFT	1.00	EA	B	.24300
71-103-02	10K TRIMMER POT	1.00	EA	B	.14000
78-101-01	100 OHM 2W 5% RES BULK CARB FILM OR MET OX	2.00	EA	B	.05574
88-302-01	MINI PB DPDT BUTTON W/1D951 GRAY	4.00	EA	B	1.24000
96-006-01	MPS-A-06 TRANSISTOR	2.00	EA	B	.07400
96-055-01	MPS-A55 TRANSISTOR	2.00	EA	B	.08600
96-112-01	TYPE J112 FET	9 10.00	EA	B	1.20000
96-510-01	2N5210 TRANSISTOR	2.00	EA	B	.07400
96-587-01	2N50B7 TRANSISTOR	2.00	EA	B	.07500
* 96-538-01	2N5038 FET	1			