

TECHNICAL REFERENCE

Product: **HD 500**

Product Code: A10501
Product Edition: 02
Date: April 4, 2001

Validation: SKC.....

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1. INTRODUCTION

This document contains the technical service information for the MusiMan HD-500 Bass Amplifier. (Edition 2).

All HD-500 Edition 2 amplifiers feature the following:

- 2 input (IN1 and IN2) with sensibility difference of 10 dB;
- Tube Gain Stage (45dB)
- Variable Direct XLR Output (selectable pre or post EQ)
- Series and Parallel Send/Return Effects Loop
- Tuner Output and Line Output
- Switchable Mute (of Power output and Direct output)
- Two EQ channels Bass 100Hz, Middle 400 Hz, Mid/High 800 Hz, Treble 12.5KHz)
- Loudspeaker Varying Response (LVR)
- Master Volume
- Limiter with selectable release time (Min, Max)

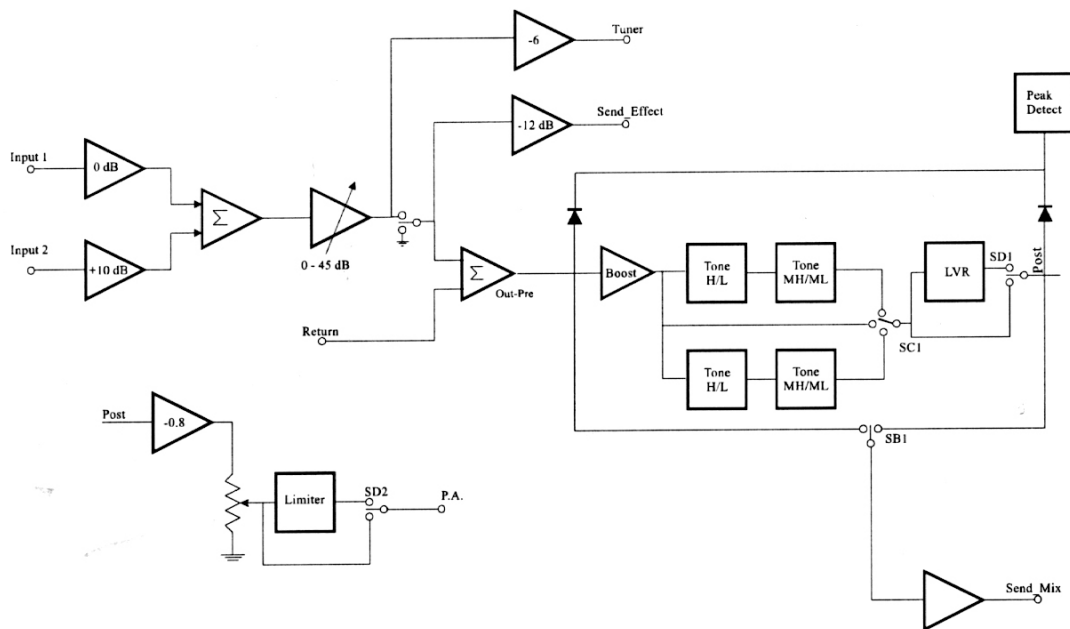


Figure 1 – Block Diagram

2. HD-500 MODULE LIST

Product Description

HD500 USA

Materials

<i>Code</i>	<i>Description</i>	<i>Schematic Reference</i>
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	User Manual HD500	DCM1
W05203	CSA Label HD500, USA	E1
W05152	Fuse 6.3A 250V T 5X20	F1
W05152	Fuse 6.3A 250V T 5X20	F2
	Transformer HD500	MV1
W05164	Window for Tube	MV3

Modules

<i>Code</i>	<i>Description</i>	<i>Schematic Reference</i>
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	HD500 Pre-Amp PCB, Assembled	1
	HD500 Power Amp PCB, Assembled	2
	HD500 Mechanic	3
	HD500 Back panel PCB, Assembled	4
	Rear Jack plane PCB, Assembled	5
	Internal Cable HD500	6

3. SCHEMATICS

In the following pages the schematics diagrams of the product are drawn.

The first schematic is related to the whole equipment.

The following schematics are related to the PRE-HD500 and are shared into 5 sheet:

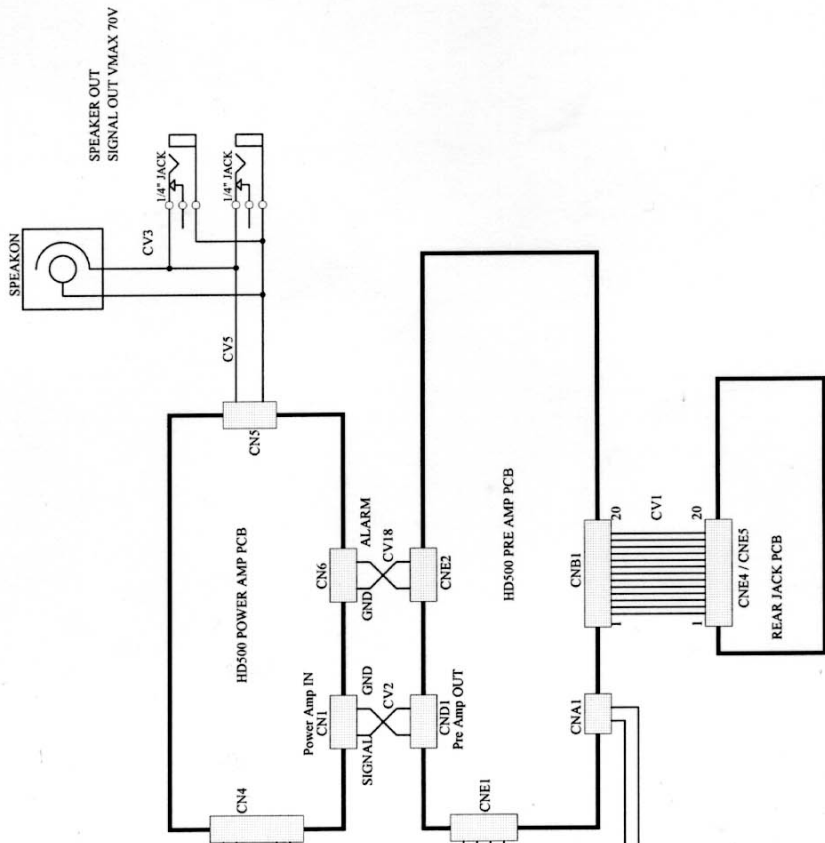
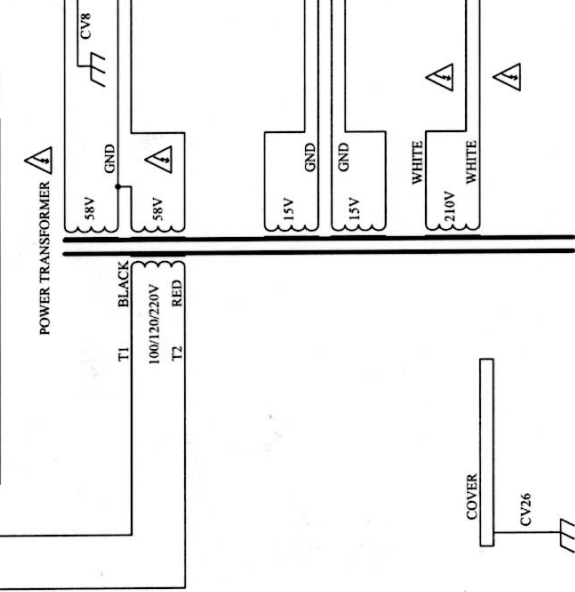
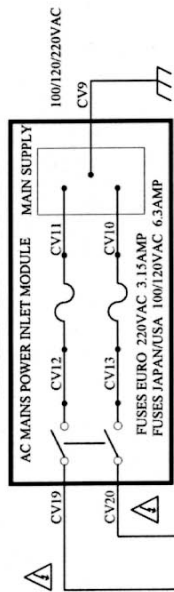
- Sheet1: Tube Gain and high voltage supply
- Sheet2: Send
- Sheet3: Equalizer
- Sheet4: LVR and Limiter
- Sheet5: Low voltage Supply

The last schematics are the Power Amplifier and the foot-switch.

1 2 3 4 5 6

D C B A

ALL FUSES: GMA "T" TYPE - SLO BLO



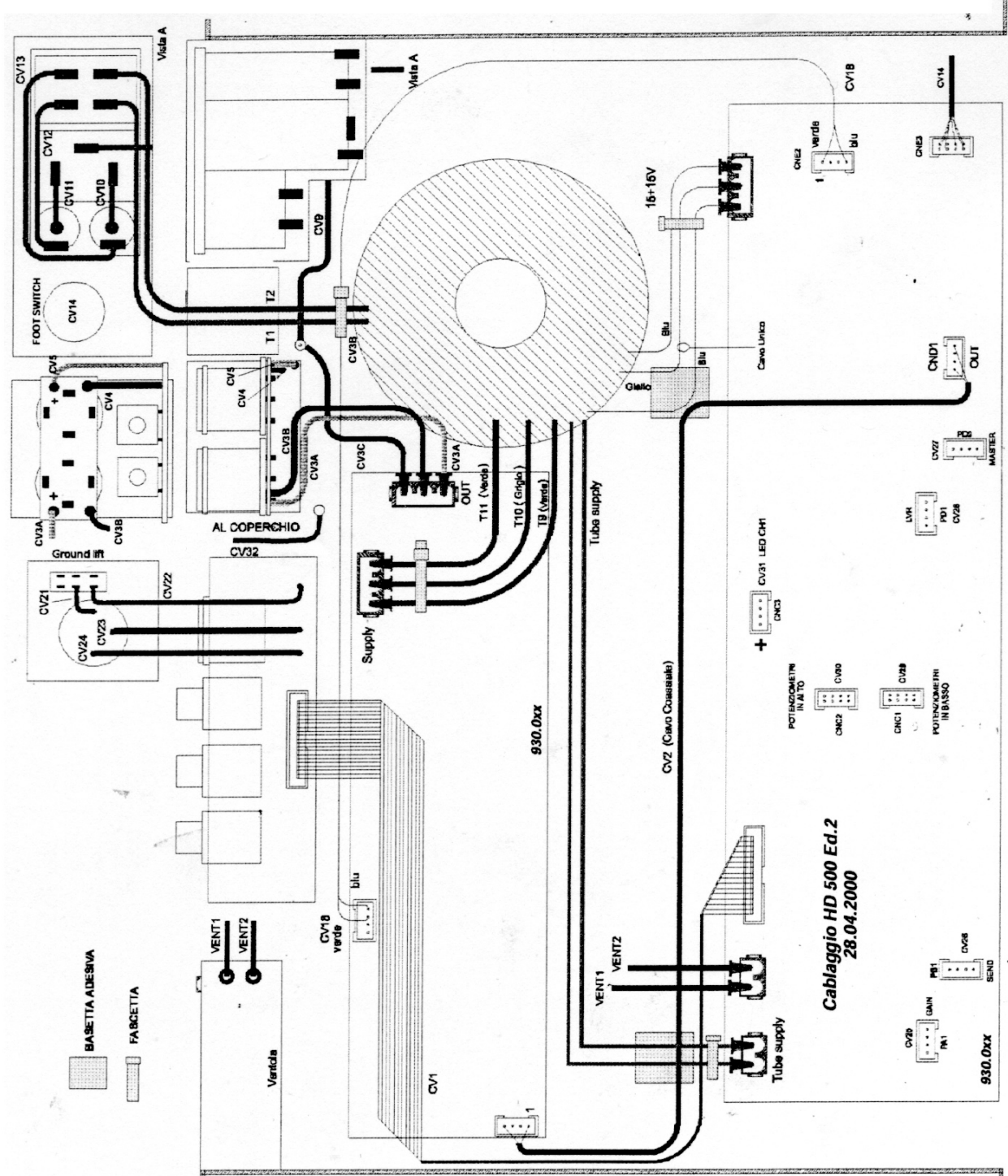
ERNITE BALL CO
 1515 SUBURBAN RD
 SAN LUIS OBISPO, CA 93401

MUSIC MAN HD-500 ED2 ASSEMBLY

Date: March 21, 2001

1 2 3 4 5 6

D C B A



BASSETTA ADESIVA
 FASCETTA

VENT1
 VENT2

Vericida

AL COPERCHIO

FOOT SWITCH

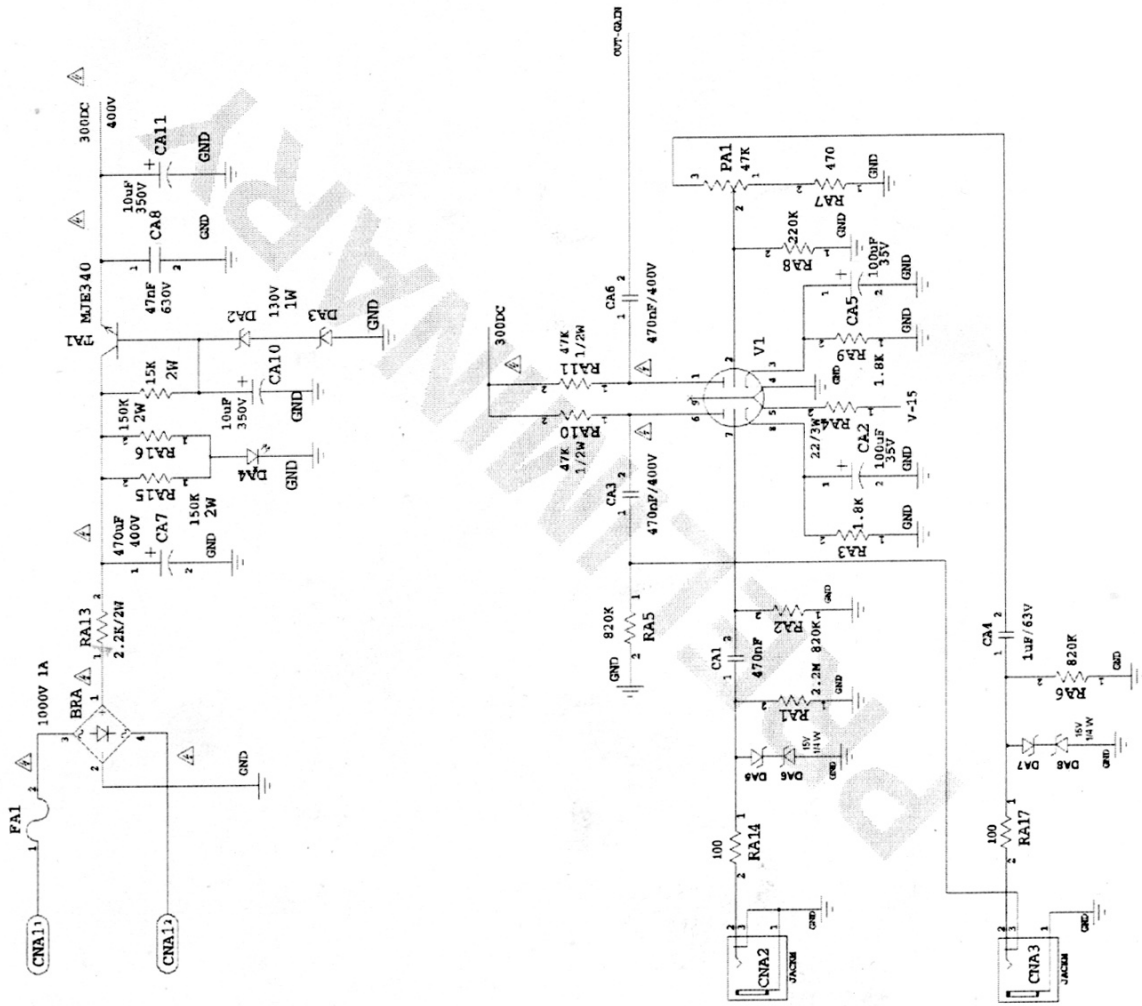
Cavo Cassonabile

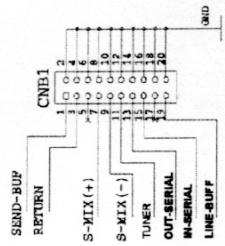
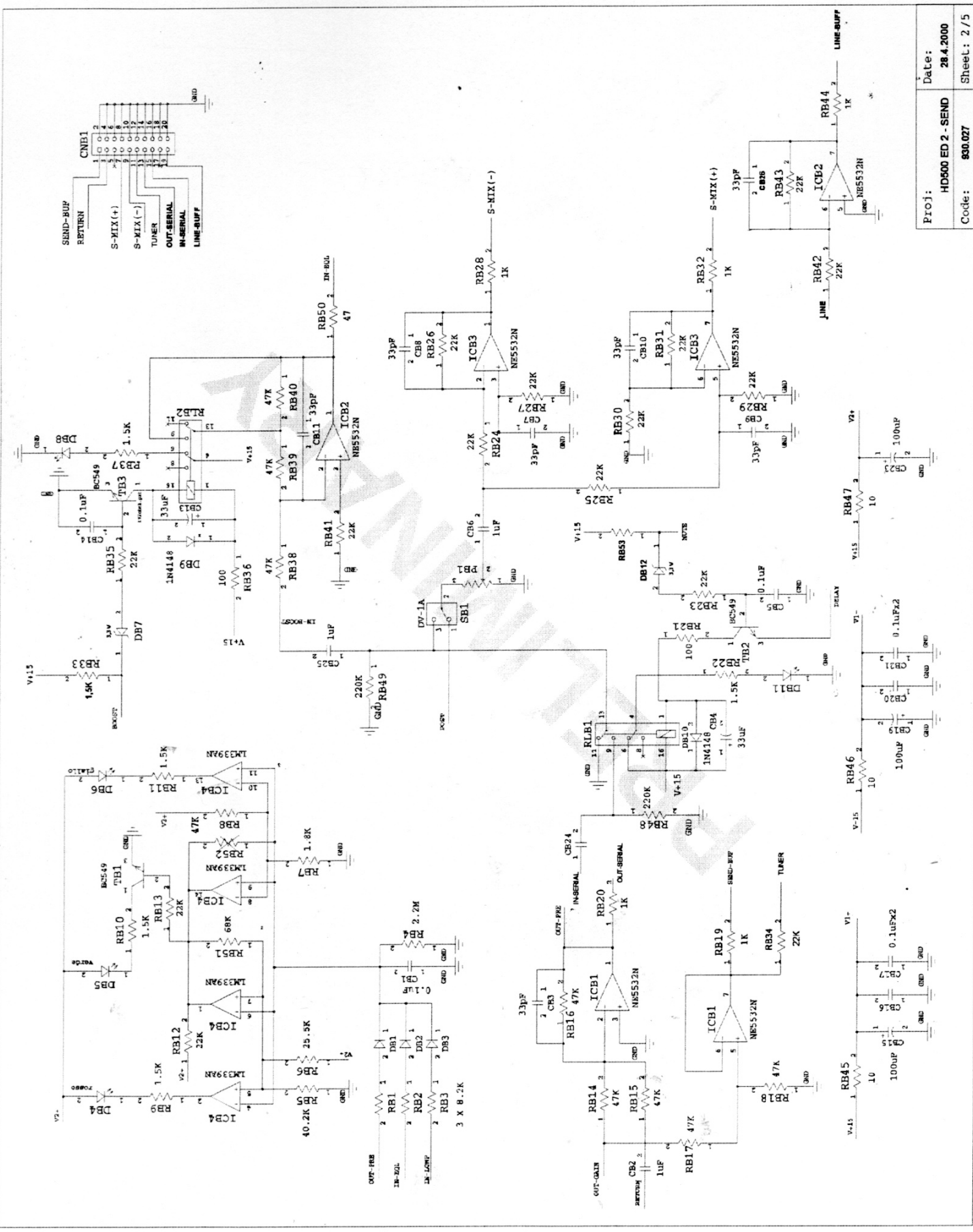
Cavo Linea

Cablaggio HD 500 Ed.2
 28.04.2000

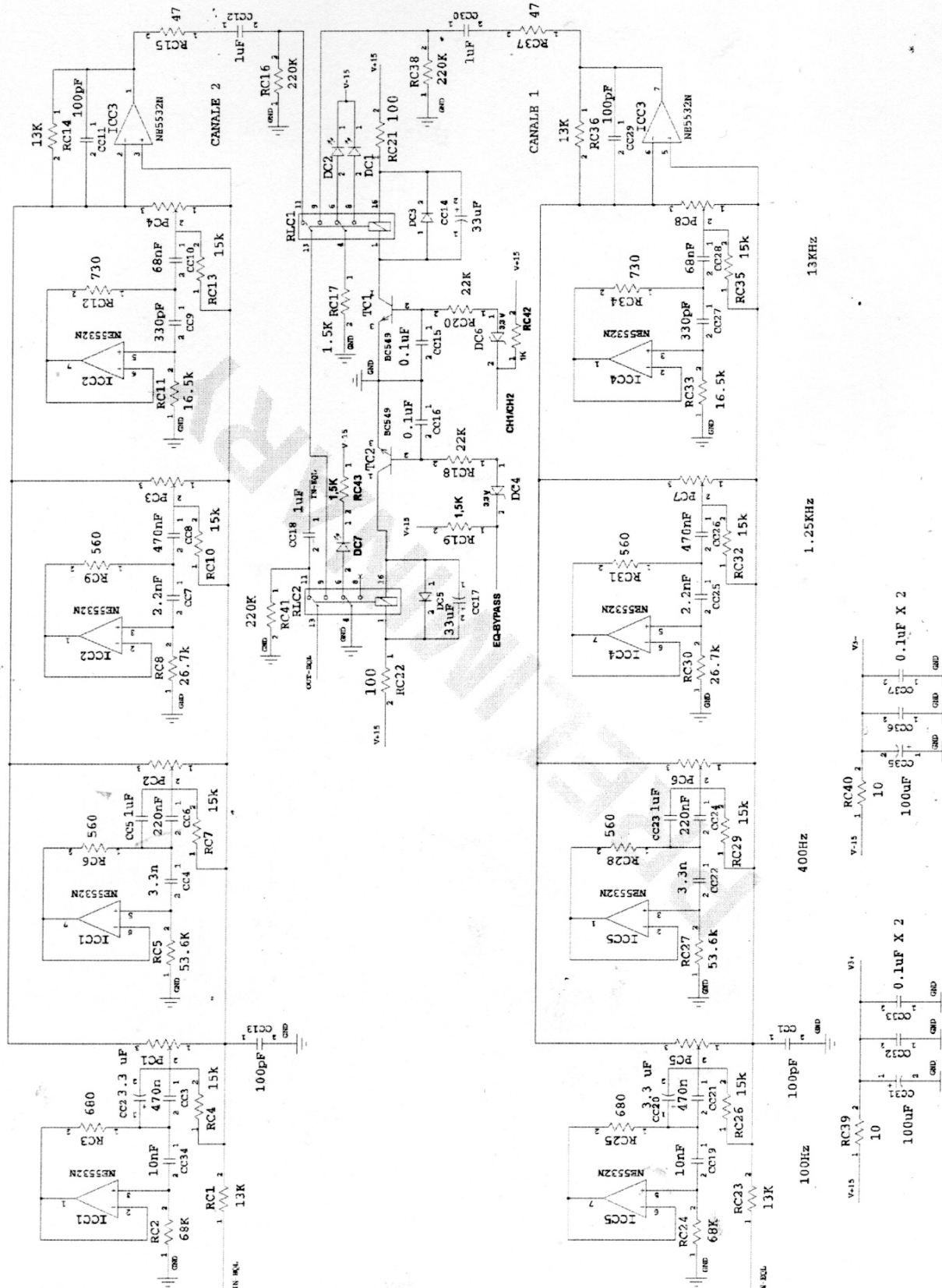
930.02x

930.02x

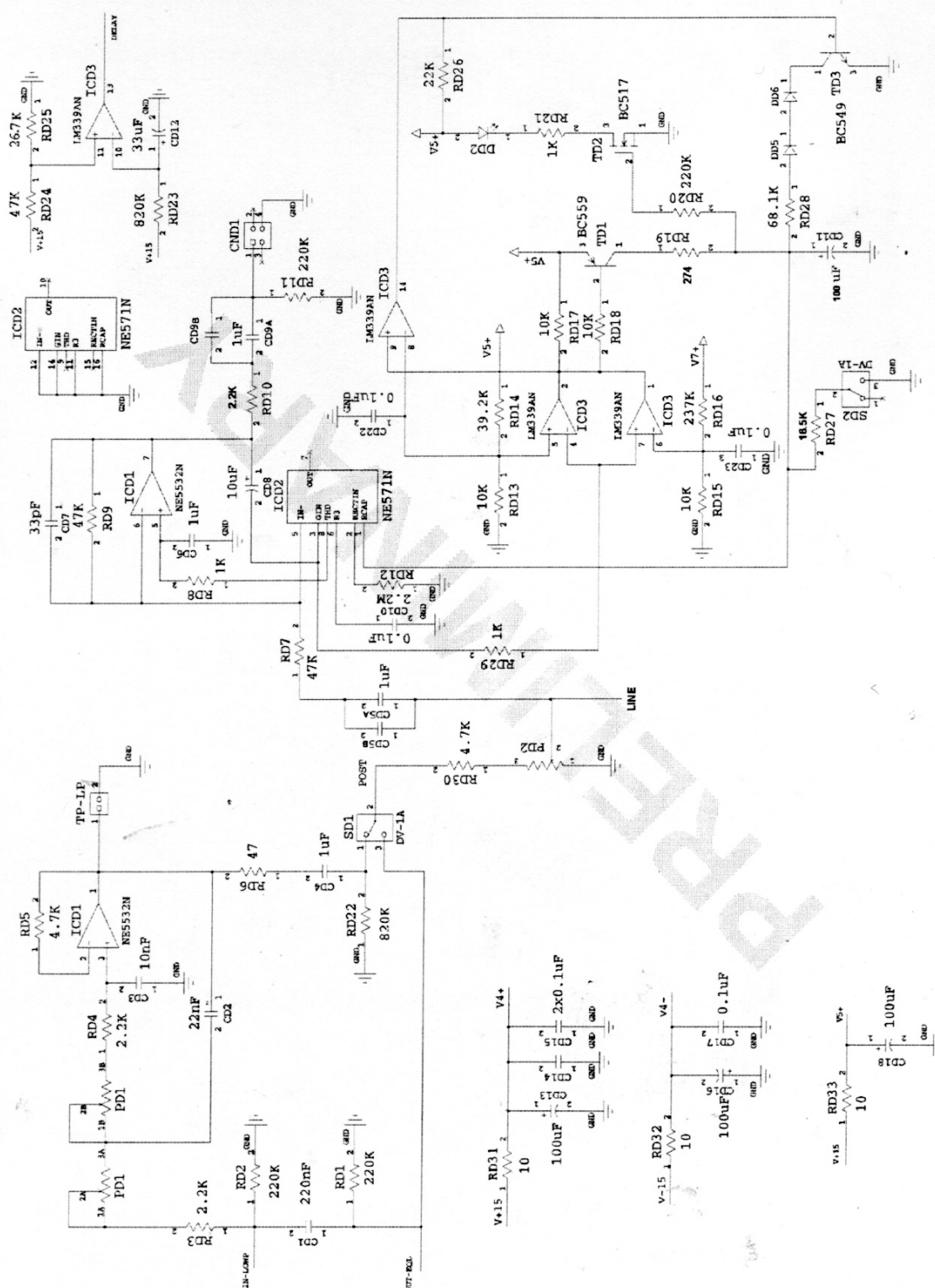




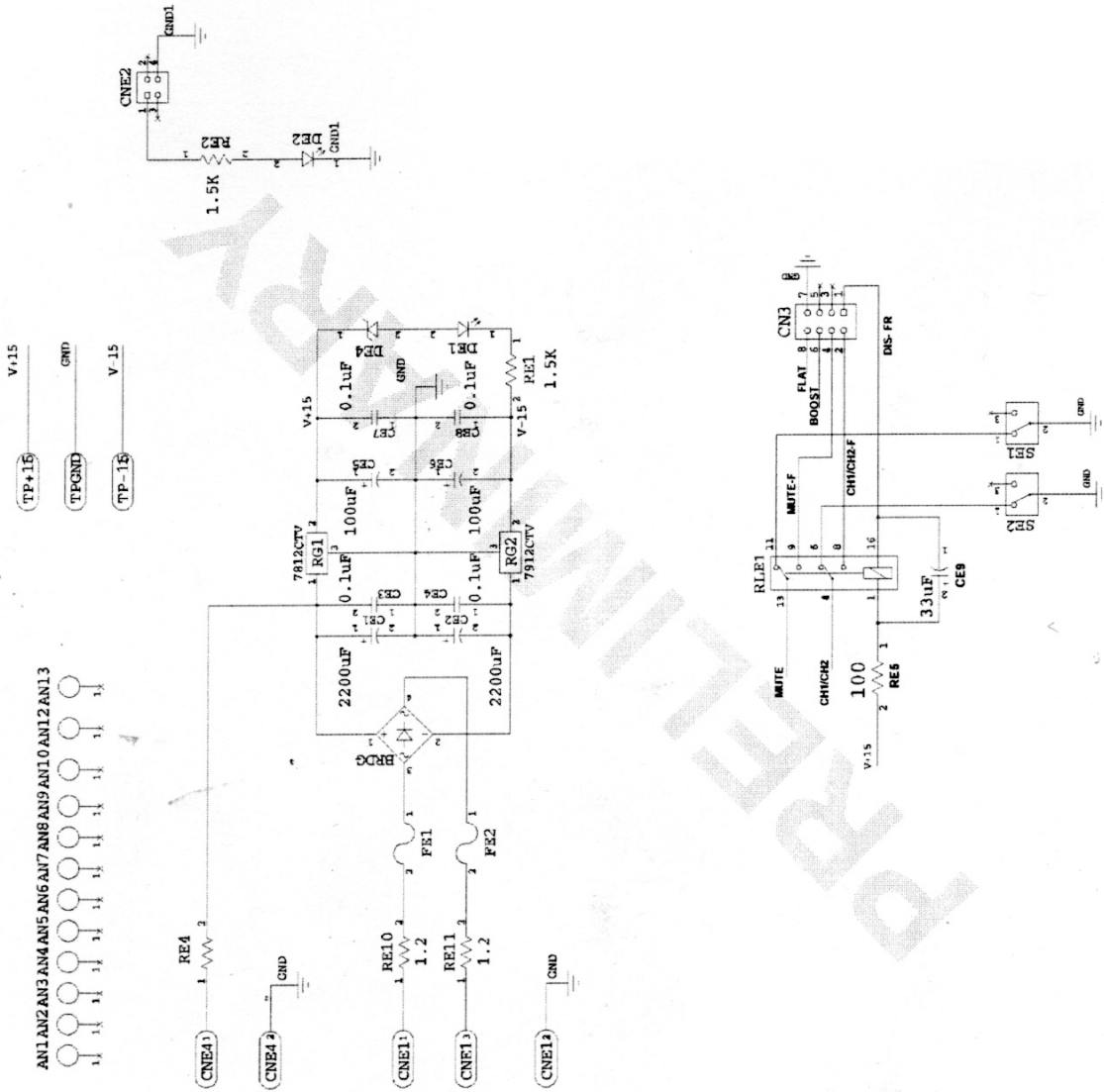
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 Code: 830.027
 Date: 28.4.2000
 Sheet: 2 / 5



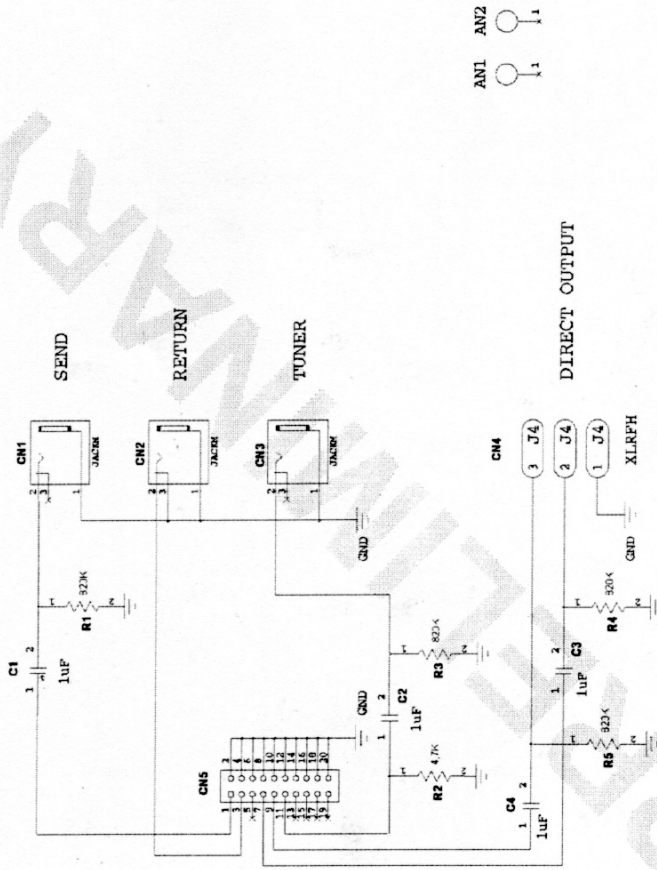
Proj:	Hd500 ED 2 - EQUAL	Date:	28.4.2000
Code:	930.027	SHEET	3/5



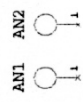
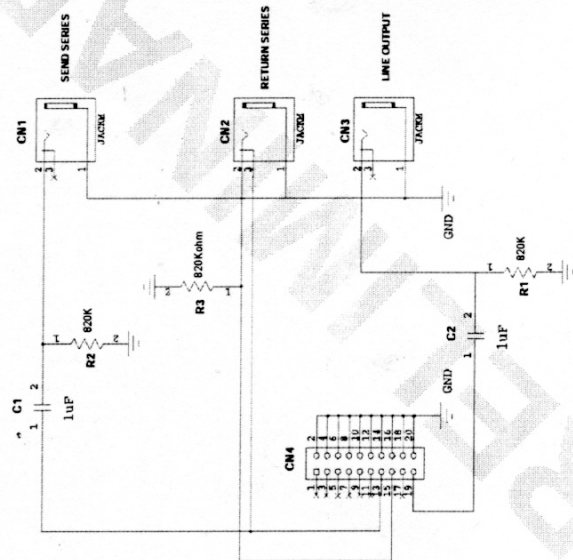
Proj:	H4500 ED 2 - LIMITER
Date:	18.9.1988
Code:	930 027
Sheet:	4 / 5



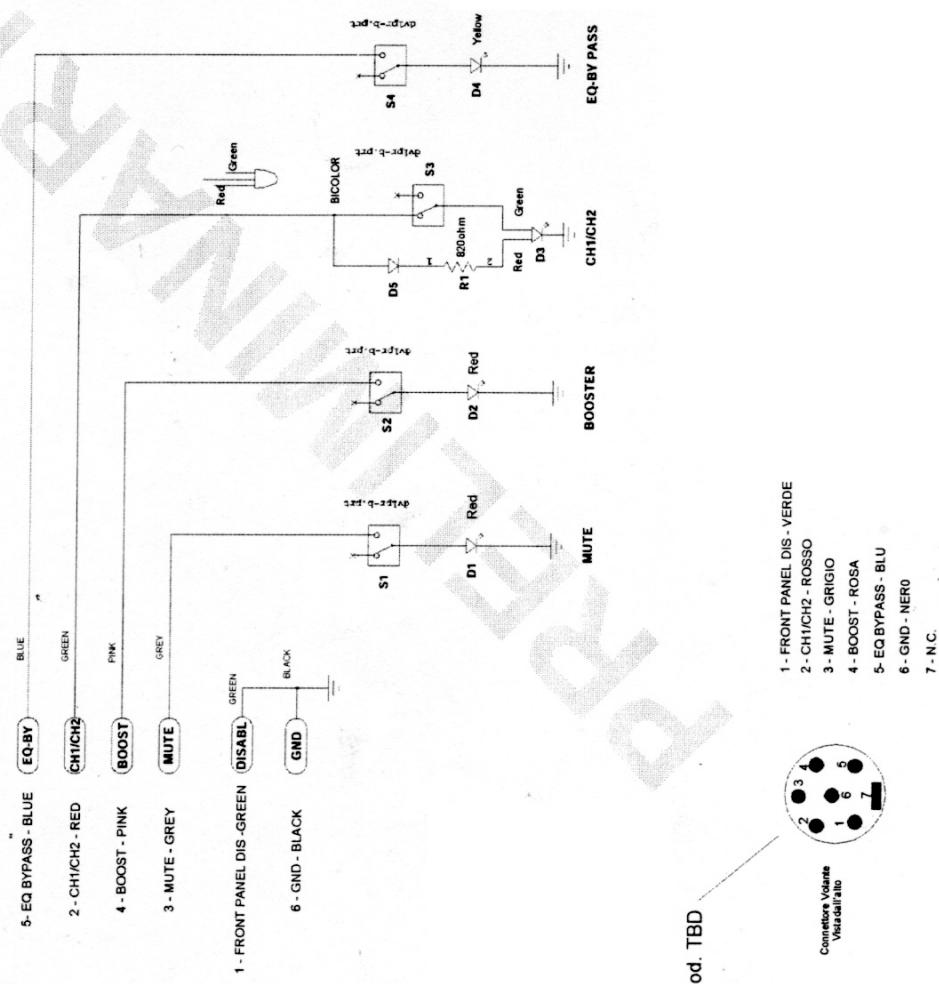
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Code:	930.027	Sheet:	5 / 5



Proj:	HD500 Ed.2 - Rear Down	Date:	28.04.2000
Code:		Sheet:	1 / 1

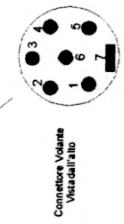


Proj:	HD500 Ed.2 - Rear Up	Date:	28.04.2000
Code:		Sheet:	1 / 1

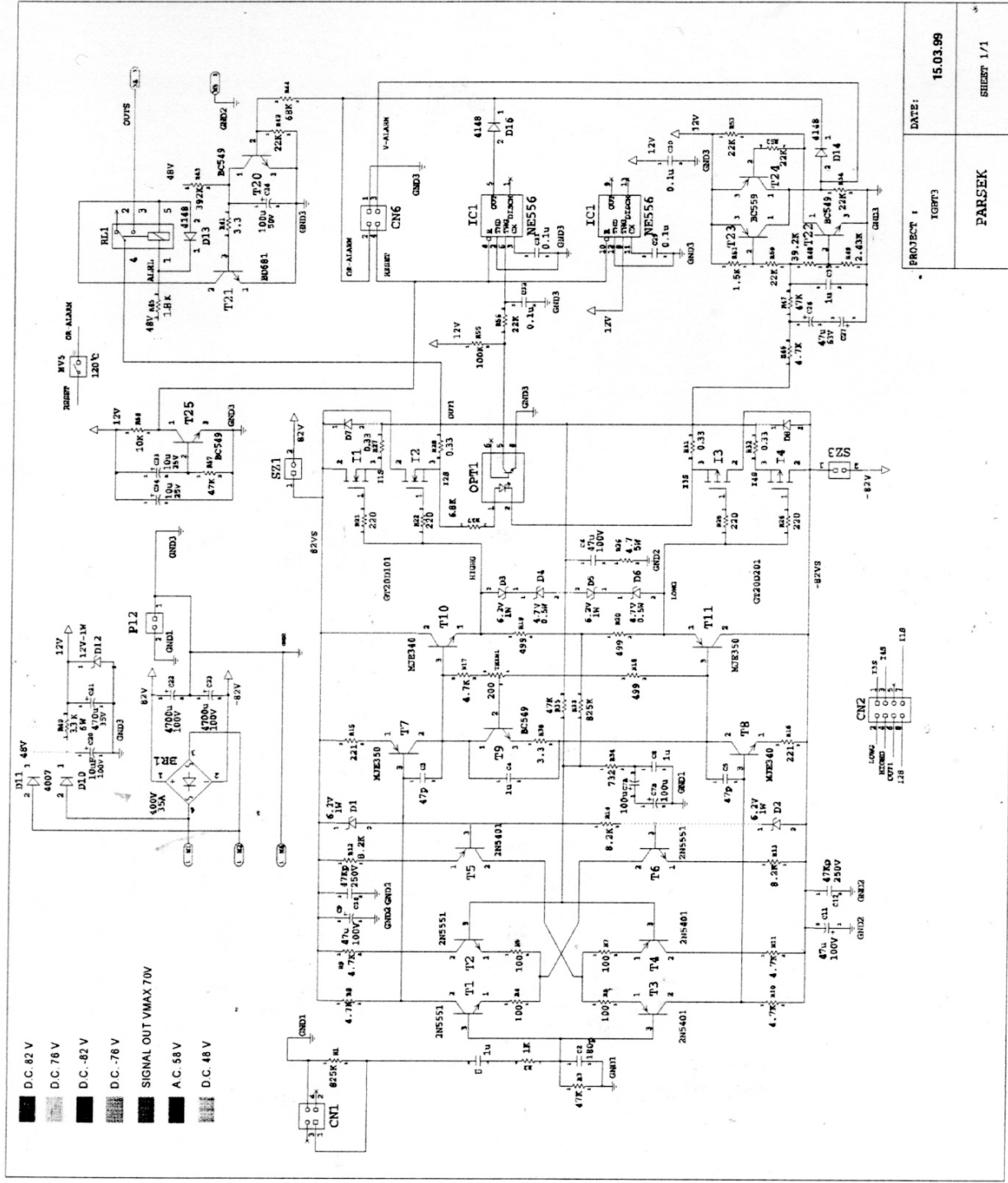


CN 1 Cod. TBD

- 1 - FRONT PANEL DIS - VERDE
- 2 - CH1/CH2 - ROSSO
- 3 - MUTE - GRIGIO
- 4 - BOOST - ROSA
- 5 - EQ BYPASS - BLU
- 6 - GND - NERO
- 7 - N.C.



PROJ:	DATE:
HD500 ED 2 - FOOT SWT	29.3.2000
Code:	Sheet: 1 / 1



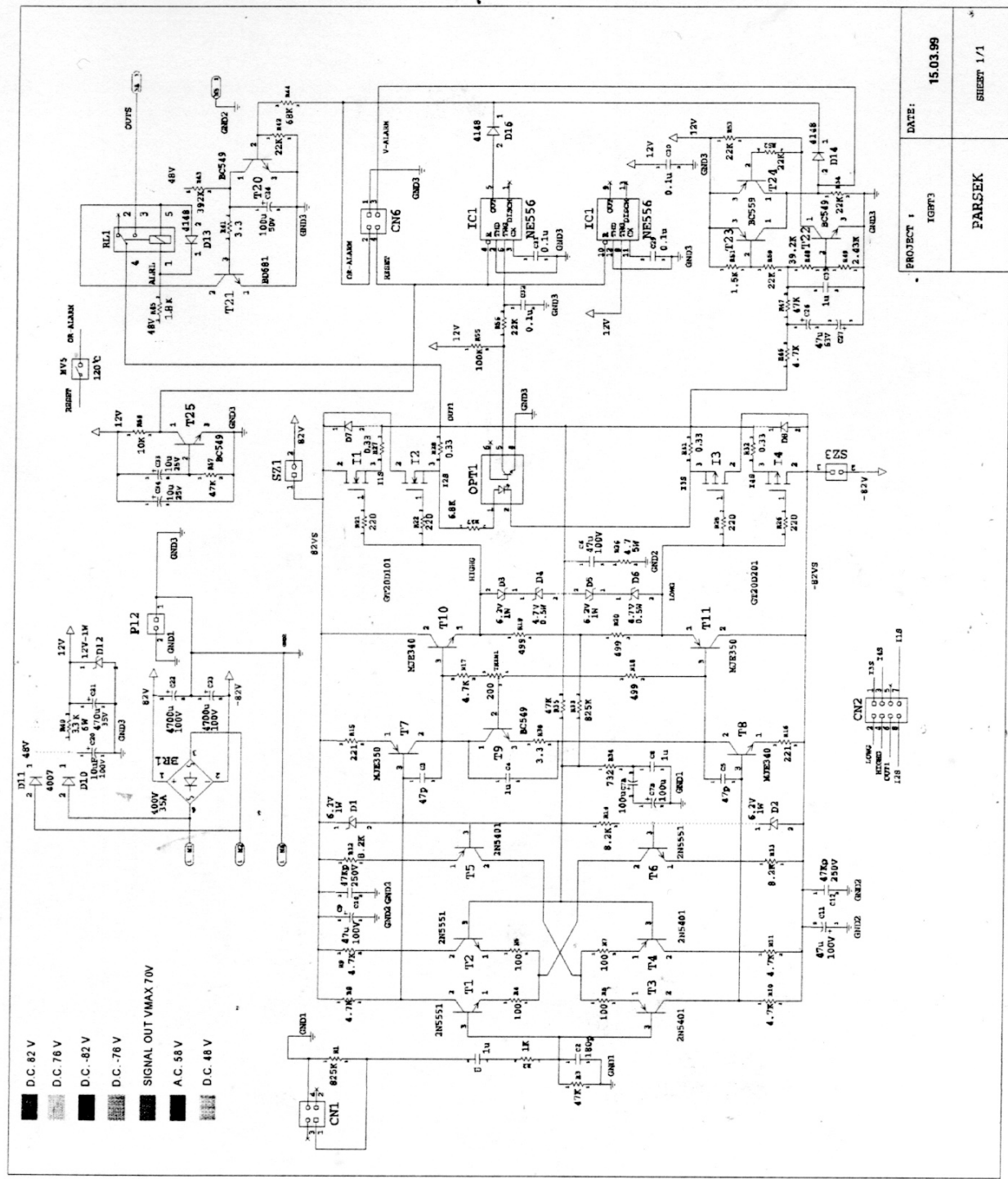
- D.C. 82 V
- D.C. 76 V
- D.C. -82 V
- D.C. -76 V
- SIGNAL OUT VMAX 70V
- A.C. 58 V
- D.C. 48 V

PROJECT 1
IGRF3

DATE: 15.03.99

PARSEK

SHEET 1/1



- D.C. 82 V
- D.C. 76 V
- D.C. -82 V
- D.C. -76 V
- SIGNAL OUT VMAX 70V
- A.C. 58 V
- D.C. 48 V

CN1	1	0	0	0	0	0	0
CN2	1	0	0	0	0	0	0
CN3	1	0	0	0	0	0	0
CN4	1	0	0	0	0	0	0
CN5	1	0	0	0	0	0	0
CN6	1	0	0	0	0	0	0
CN7	1	0	0	0	0	0	0
CN8	1	0	0	0	0	0	0
CN9	1	0	0	0	0	0	0
CN10	1	0	0	0	0	0	0
CN11	1	0	0	0	0	0	0
CN12	1	0	0	0	0	0	0
CN13	1	0	0	0	0	0	0
CN14	1	0	0	0	0	0	0
CN15	1	0	0	0	0	0	0
CN16	1	0	0	0	0	0	0
CN17	1	0	0	0	0	0	0
CN18	1	0	0	0	0	0	0

PROJECT : 100PT3
 DATE: 15.03.99
 PARSEK
 SHEET 1/1