Cobra-1 since 6/01 Serial-Nr.: F02001

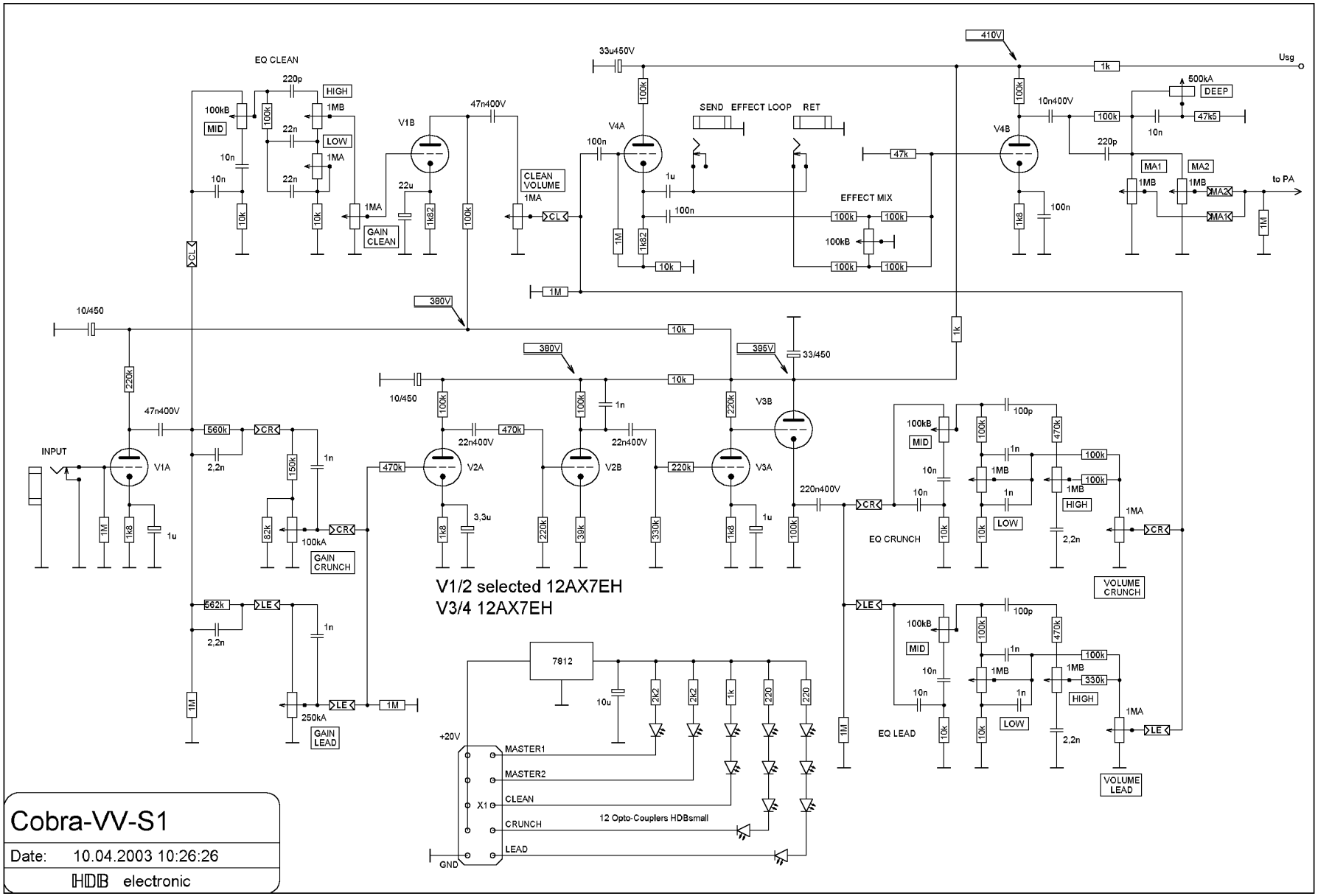
- Start of Production

PreAmp schematic PreAmp board
PowerAmp schematic Rectifier, eff-loop, PA boards
MIDI schematics MIDI boards

Cobra-2 since 4/03 Serial-Nr.: F02111

- New optocouplers, new PCB layouts

PreAmp schematic PreAmp board
PowerAmp schematic Rectifier, eff-loop, PA boards
MIDI schematics MIDI boards



Cobra-VV-S1

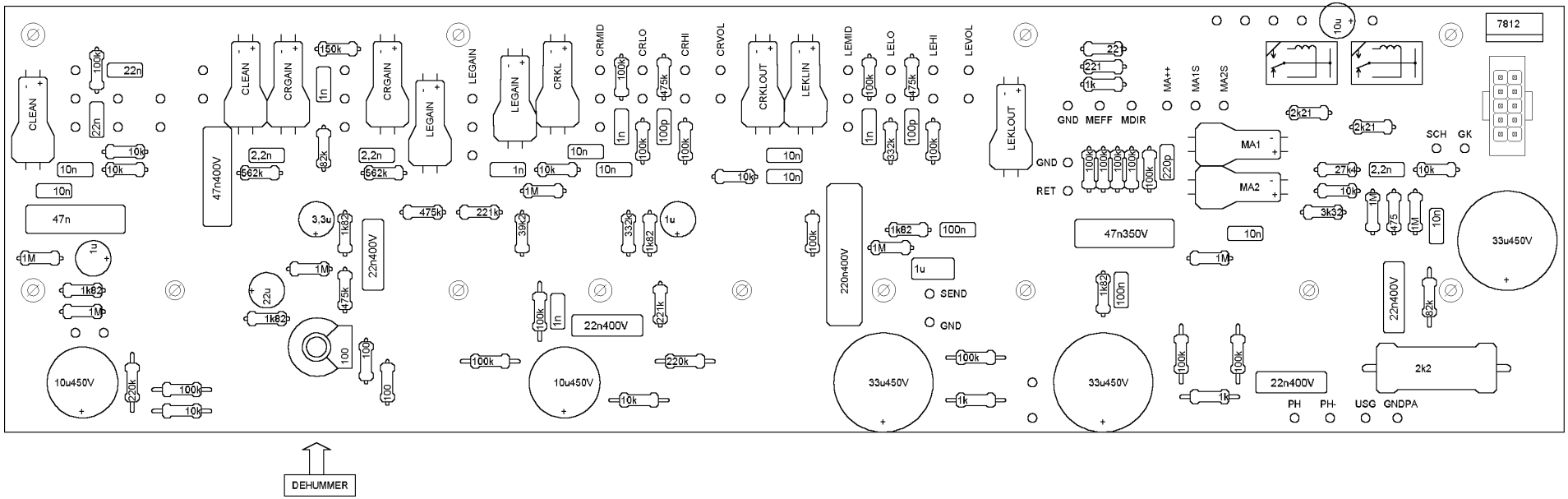
Date: 10.04.2003 10:26:26

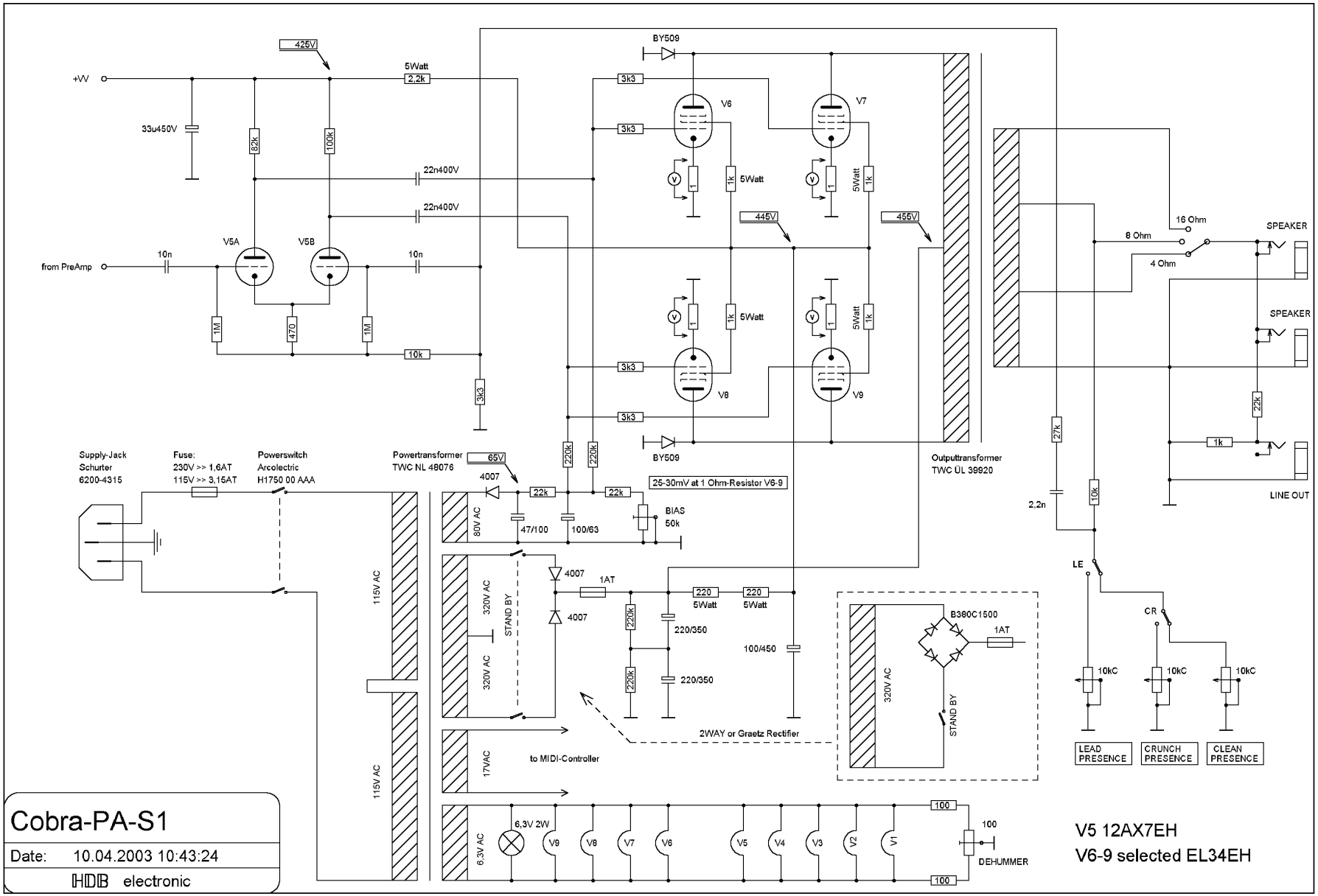
HDB electronic

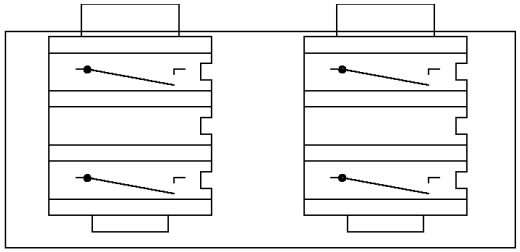
Cobra-VV-B1

Draw: 16.04.2003 15:22:22

HDB electronic



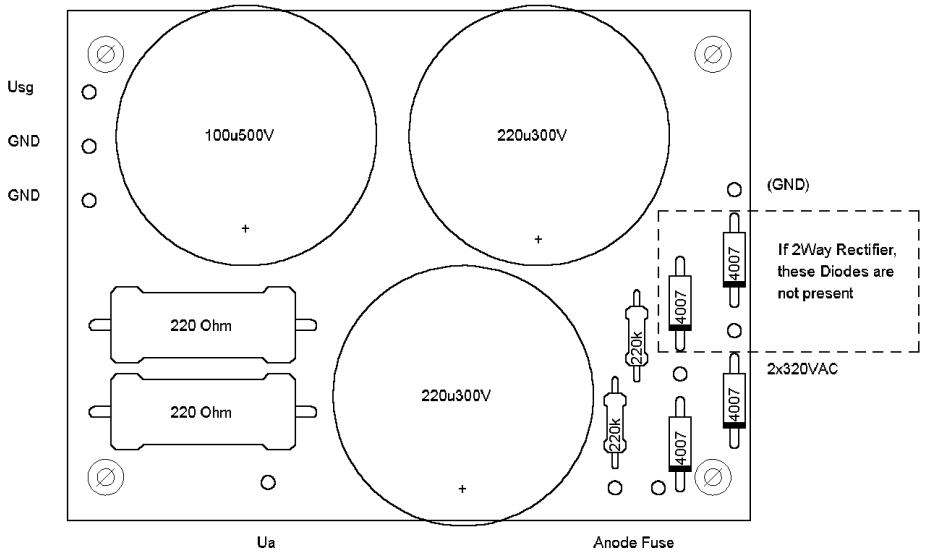

425V
+VV
5Watt
2,2k
33u450V
82k
100k
22n400V
22n400V
from PreAmp
10n
V5A
V5B
10n
1M
470
1M
10k
3k3
BY509
3k3
3k3
V6
V7
1k
5Watt
1k
5Watt
445V
455V
3k3
3k3
V8
V9
1k
5Watt
1k
5Watt
3k3
BY509
16 Ohm
8 Ohm
4 Ohm
SPEAKER
SPEAKER
22k
1k
LINE OUT
27k
2,2n
10k
Supply-Jack
Schurter
6200-4315
Fuse:
230V >> 1,6AT
115V >> 3,15AT
Powerswitch
Arcolectric
H1750 00 AAA
Powertransformer
TWC NL 48076
65V
4007
22k
22k
220k
220k
25-30mV at 1 Ohm-Resistor V6-9
BIAS
50k
80V AC
47/100
100/63
Outputtransformer
TWC ÜL 39920
LE
CR
10kC
10kC
10kC
LEAD
PRESENCE
CRUNCH
PRESENCE
CLEAN
PRESENCE
115V AC
115V AC
320V AC
STAND BY
4007
1AT
4007
220k
220k
220
5Watt
220
5Watt
220/350
220/350
100/450
320V AC
STAND BY
B380C1500
1AT
2WAY or Graetz Rectifier
17VAC
to MIDI-Controller
6,3V AC
6,3V 2W
V9
V8
V7
V6
V5
V4
V3
V2
V1
100
100
100
DEHUMMER
Cobra-PA-S1
Date: 10.04.2003 10:43:24
HDB electronic
V5 12AX7EH
V6-9 selected EL34EH

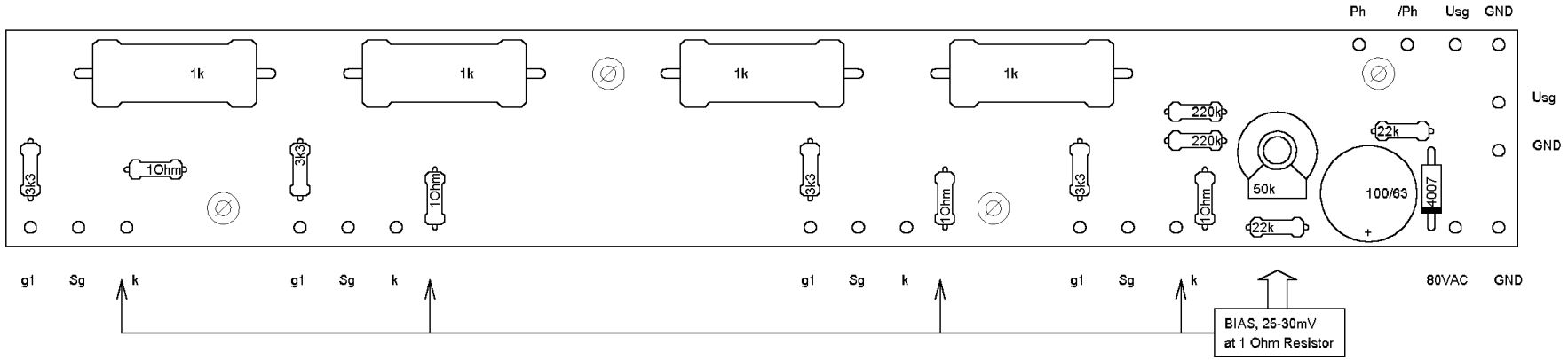


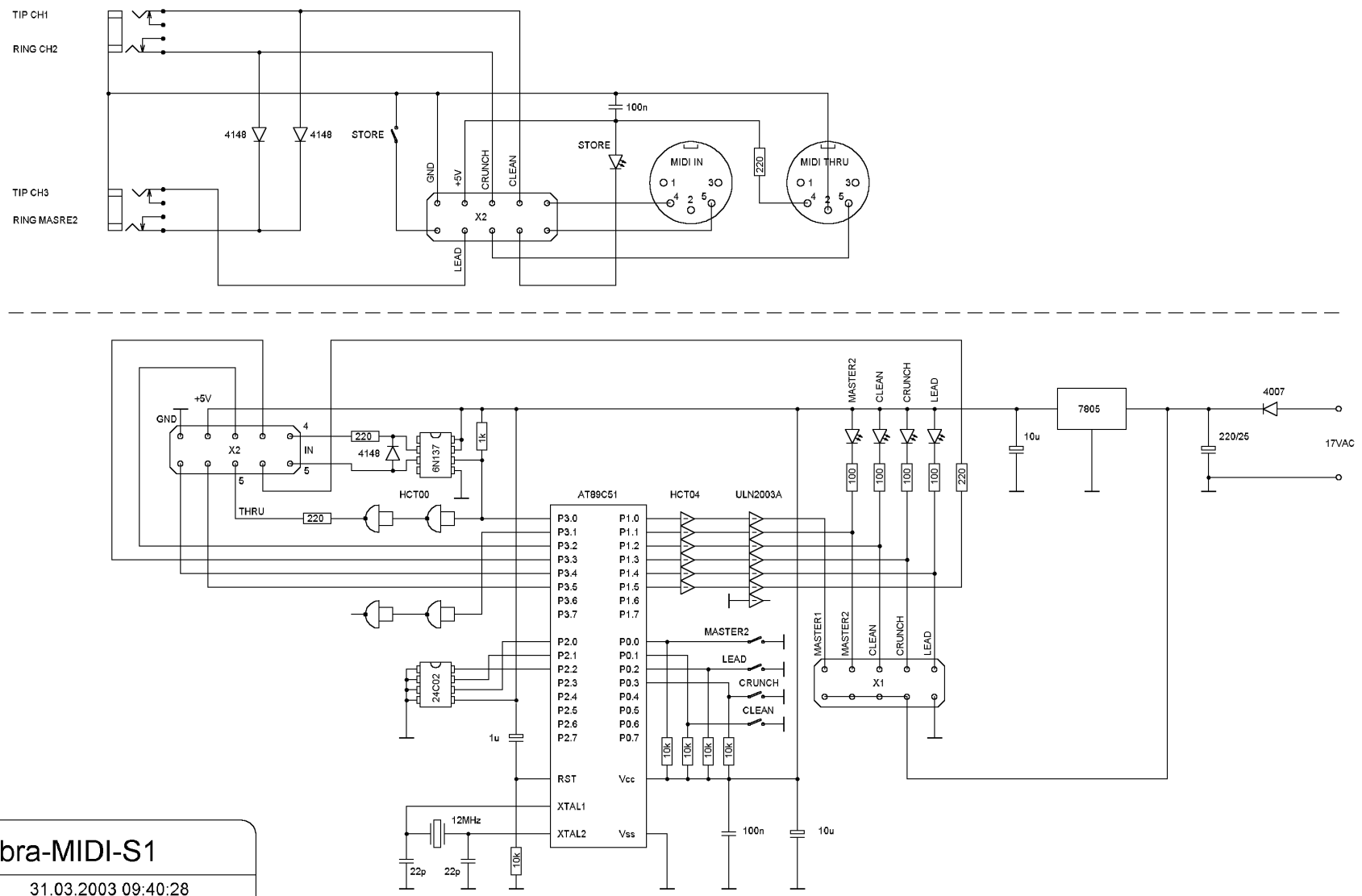
Cobra-DIV-B1

Draw: 17.04.2003 06:28:50

HDB electronic







Cobra-MIDI-S1

Date: 31.03.2003 09:40:28

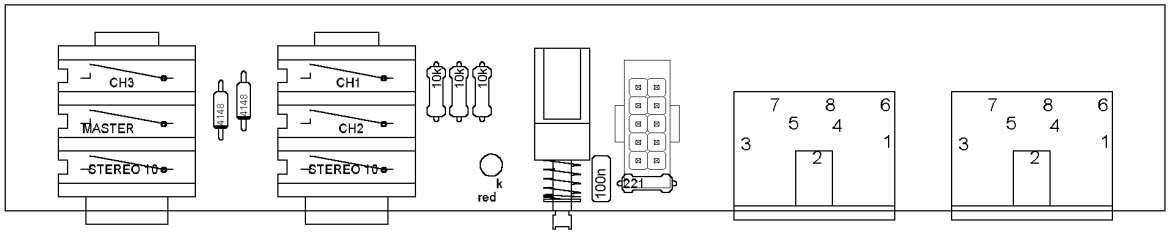
HDB electronic

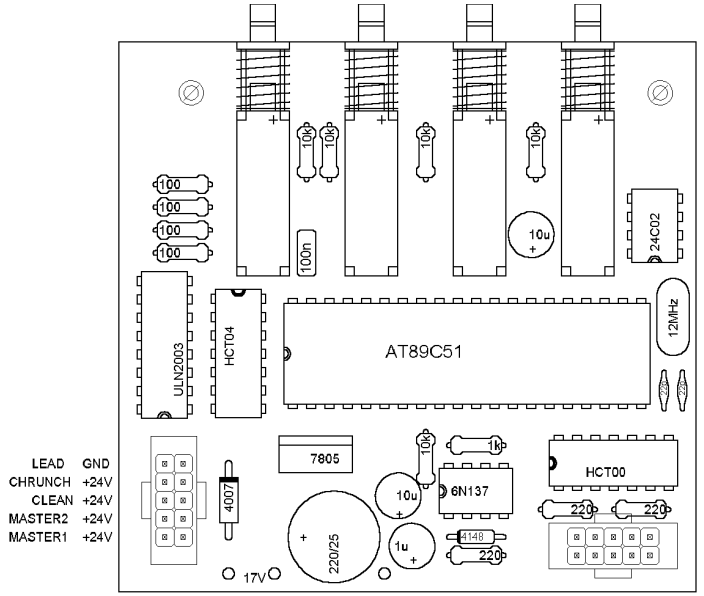
Cobra-MIDI-B1

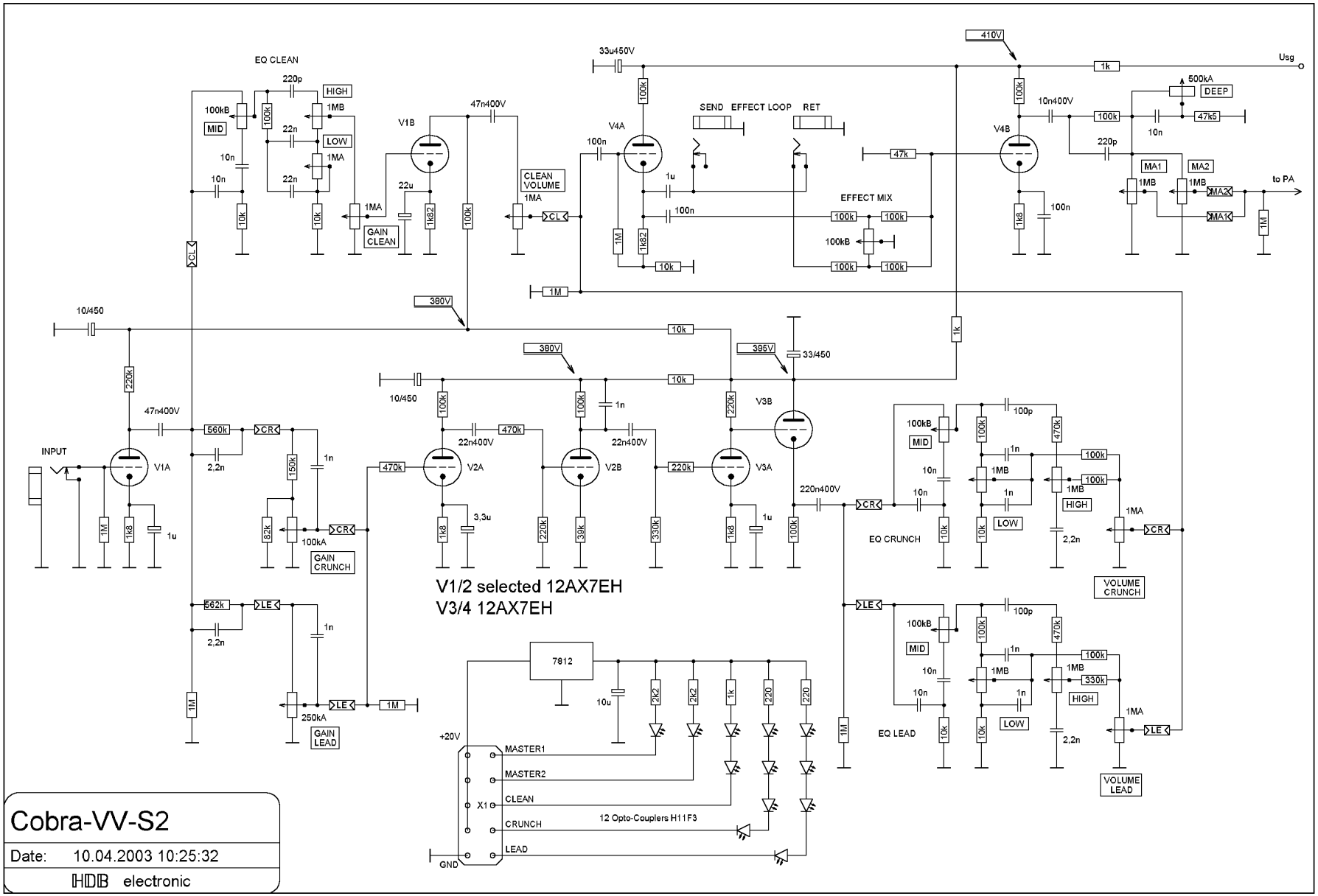
Draw: 16.04.2003 15:21:06

HDB electronic

IN4	IN5
CH1	LED
CH2	THRU5
+5V	CH3
GND	SAVE







Cobra-VV-S2

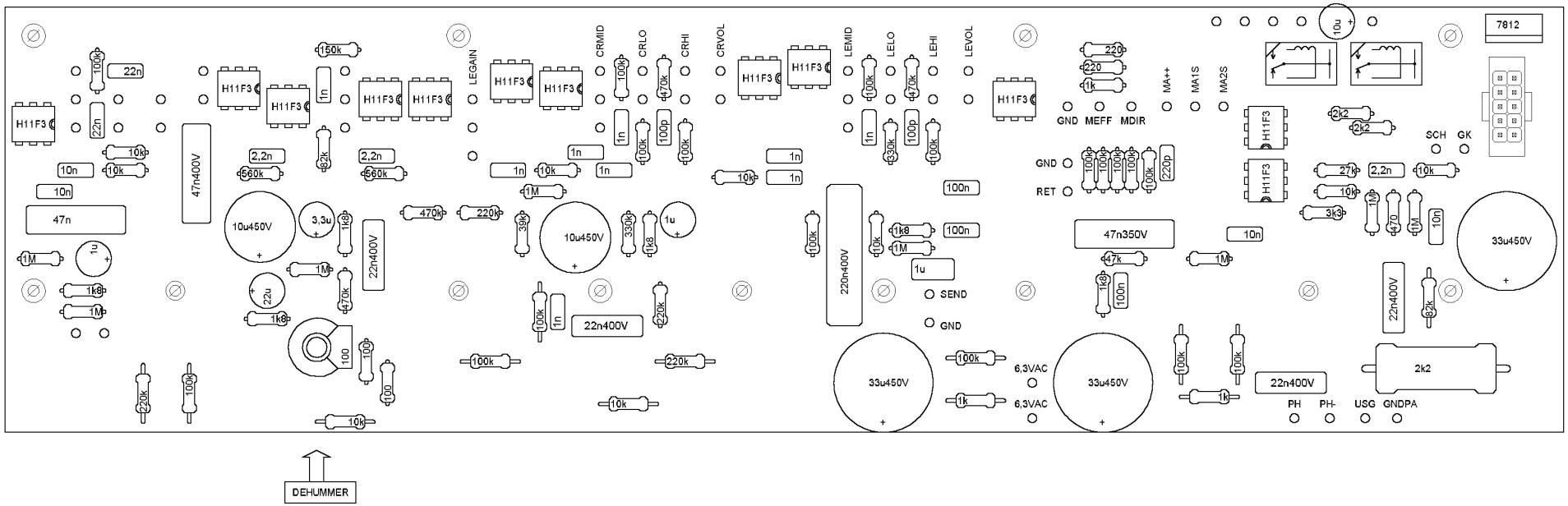
Date: 10.04.2003 10:25:32

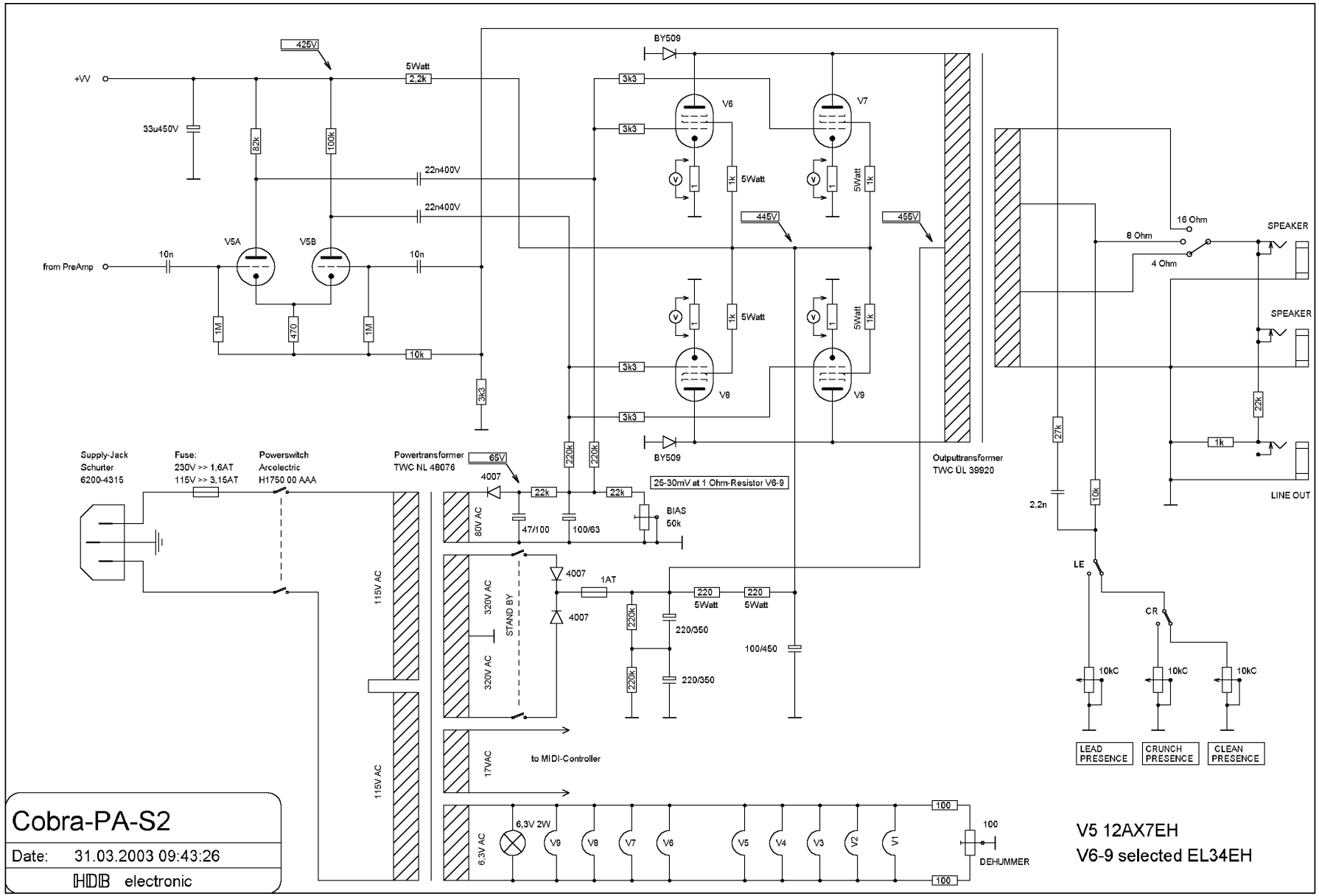
HDB electronic

Cobra-VV-B2

Draw: 17.04.2003 06:30:36

HDB electronic

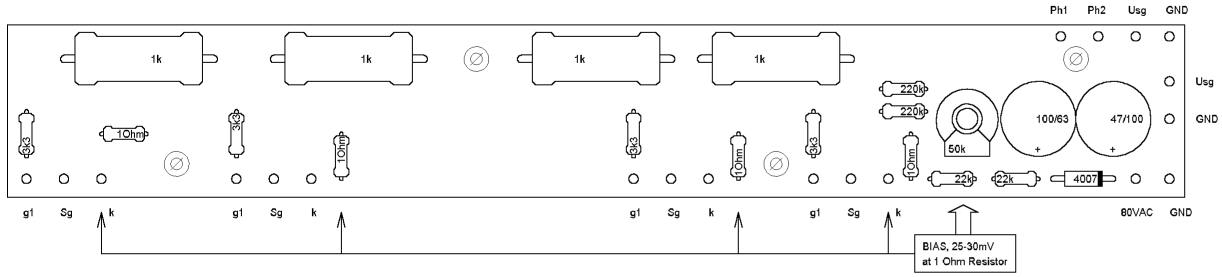


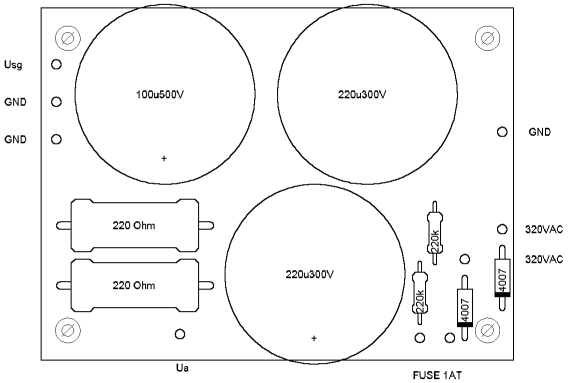

425V
+VV
5Watt
2,2k
33u450V
82k
100k
22n400V
22n400V
BY509
3k3
V6
V7
1k
5Watt
445V
455V
V5A
V5B
from PreAmp
10n
10n
1M
470
1M
10k
3k3
V8
V9
BY509
Outputtransformer
TWC ÜL 39920
16 Ohm
8 Ohm
4 Ohm
SPEAKER
SPEAKER
22k
1k
LINE OUT
27k
2,2n
10k
LE
CR
10kC
10kC
10kC
LEAD PRESENCE
CRUNCH PRESENCE
CLEAN PRESENCE
Supply-Jack
Schurter
6200-4315
Fuse:
230V >> 1,6AT
115V >> 3,15AT
Powerswitch
Arcolectric
H1750 00 AAA
Powertransformer
TWC NL 48076
65V
4007
22k
220k
220k
22k
25-30mV at 1 Ohm-Resistor V6-9
BIAS
50k
80V AC
47/100
100/63
115V AC
320V AC
STAND BY
320V AC
4007
1AT
4007
220
5Watt
220
5Watt
220k
220k
220/350
220/350
100/450
17VAC
to MIDI-Controller
115V AC
6,3V AC
6,3V 2W
V9
V8
V7
V6
V5
V4
V3
V2
V1
100
100
100
DEHUMMER
Cobra-PA-S2
Date: 31.03.2003 09:43:26
HDB electronic
V5 12AX7EH
V6-9 selected EL34EH

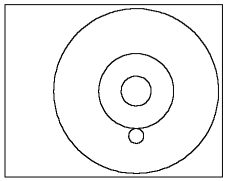
Cobra-DIV-B2

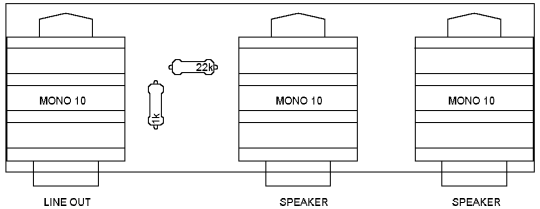
Draw: 17.04.2003 06:31:06

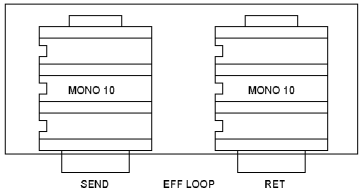
HDB electronic

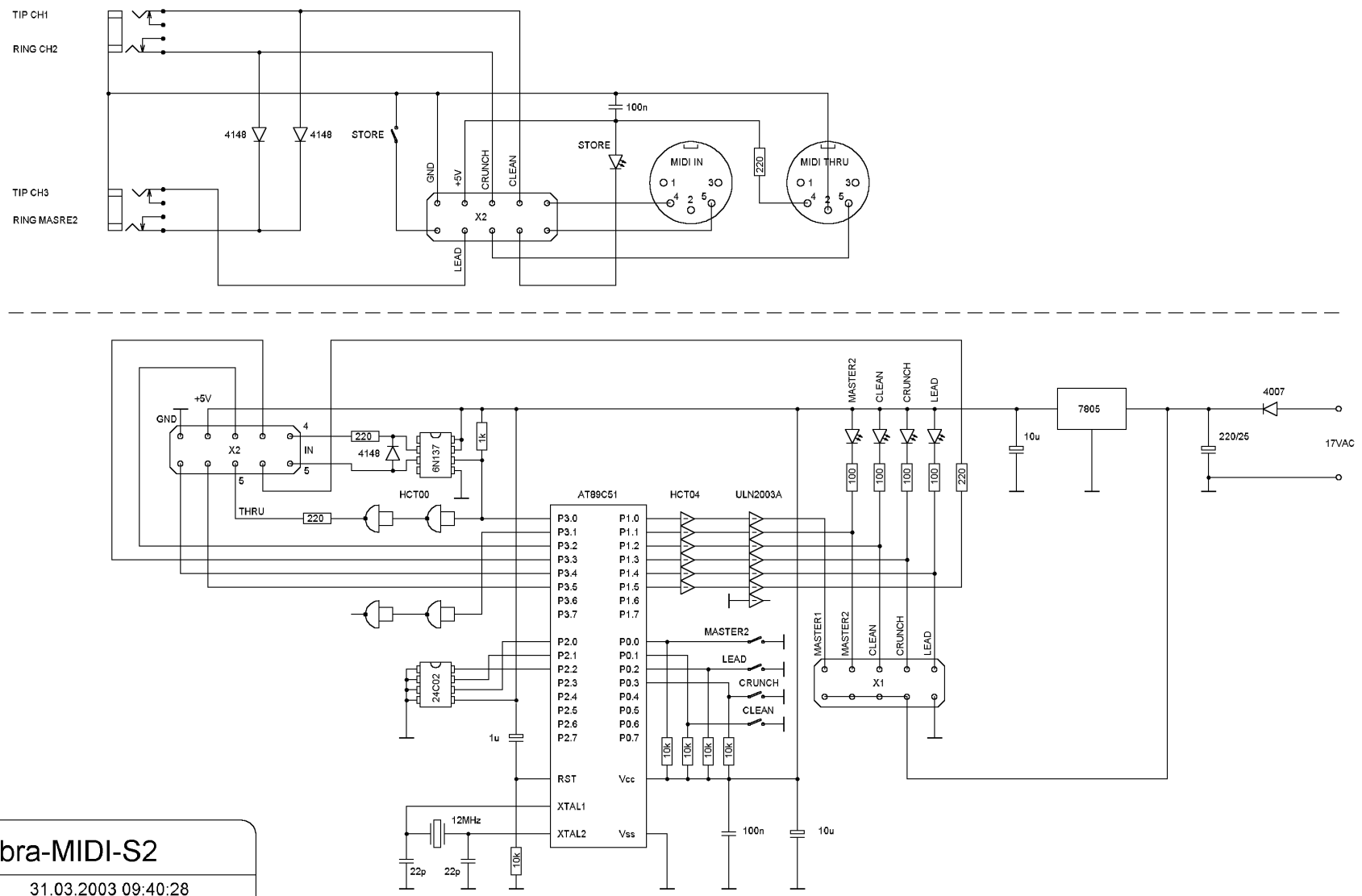










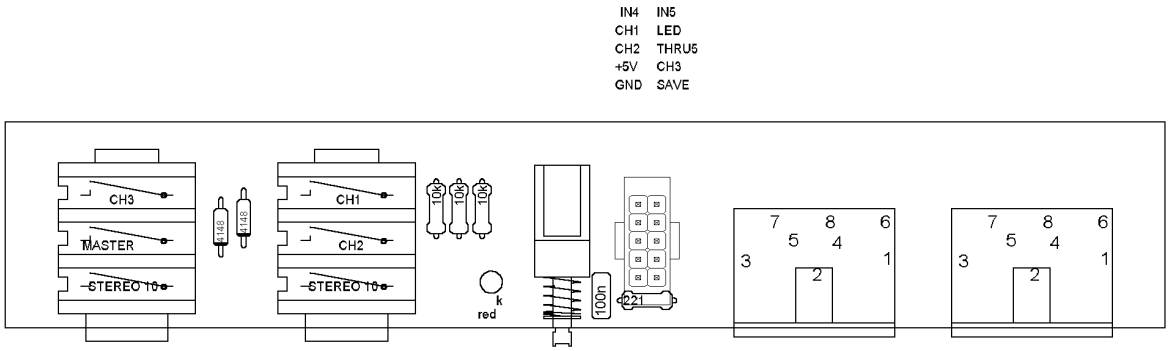
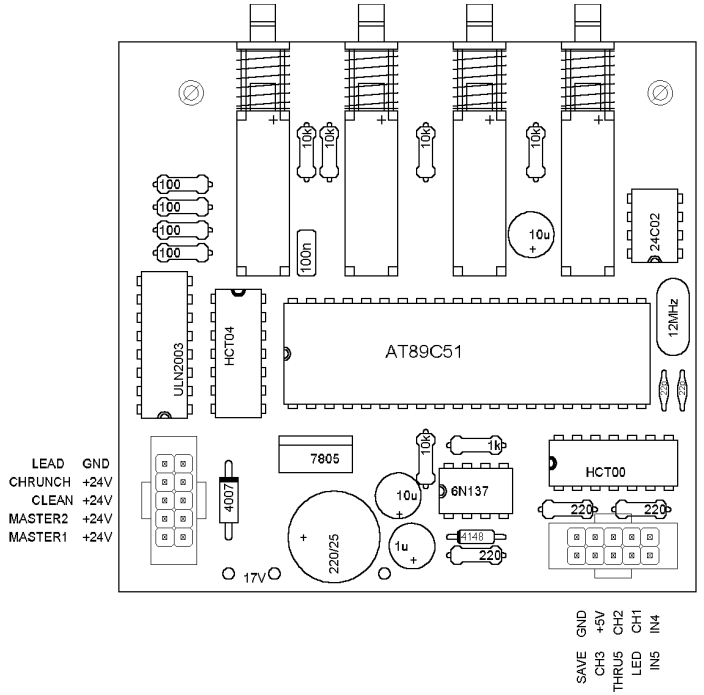


Cobra-MIDI-S2

Date: 31.03.2003 09:40:28

HDB electronic

Cobra-MIDI-B2

Draw: 16.04.2003 15:21:34

HDB electronic