



NM 815

2 sats + 1 subwoofer

SERVICE MANUAL - MANUALE DI SERVIZIO

Montarbo
Made in Italy



2014

NM 815

2 sats + 1 subwoofer

service manual

NM815

2 SATS + 1 SUBWOOFER



TABLE OF CONTENTS:

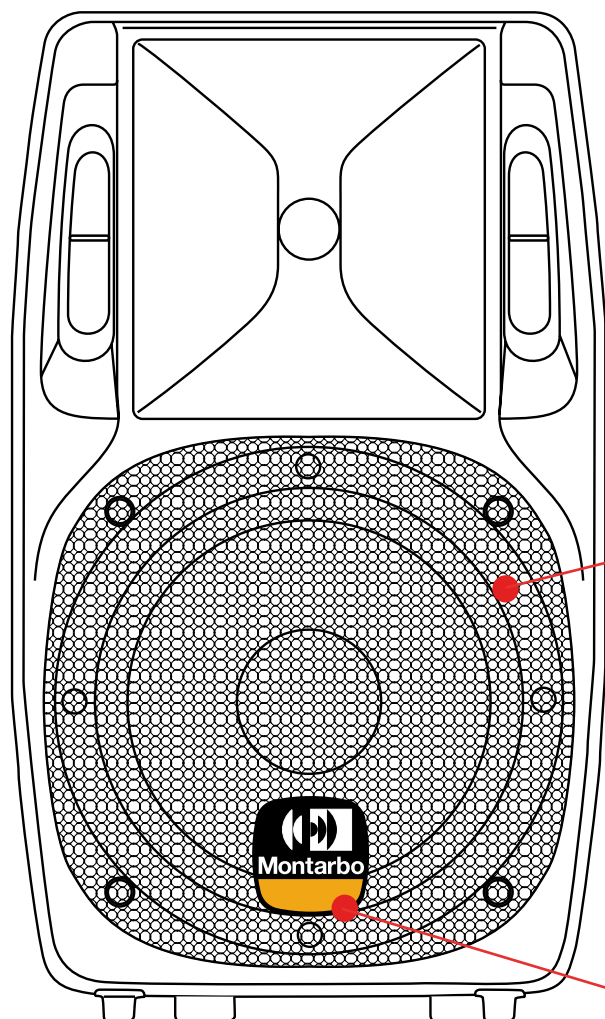
Spare parts
Technical specification
Elettrical diagram
Assembled circuit boards

INDICE:

Parti di ricambio
Dati tecnici
Schema elettrico
Circuiti assemblati

D51NM80

NM8Bi enclosure

Cassa acustica NM8Bi**D20SAT2**

Perforeated steel grid
*Griglia di protezione in
verniciata*

B021079

Lenticular adhesive
name plate
*Targhetta adesiva
lenticolare*

B03N201

Rear cabinet
Injection moulded
polypropylene cabinet
Posteriore
Cabinet in polipropilene
stampato ad
iniezione

B03N200

Front cabinet
Injection moulded
polypropylene cabinet
Anteriore
Cabinet in polipropilene
stampato ad
iniezione

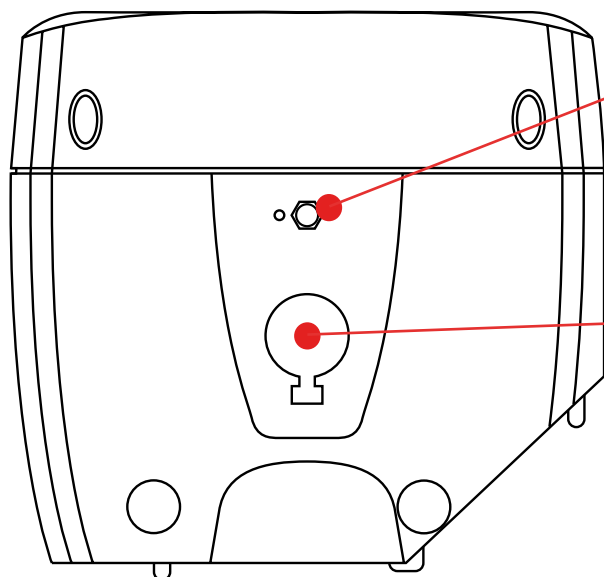
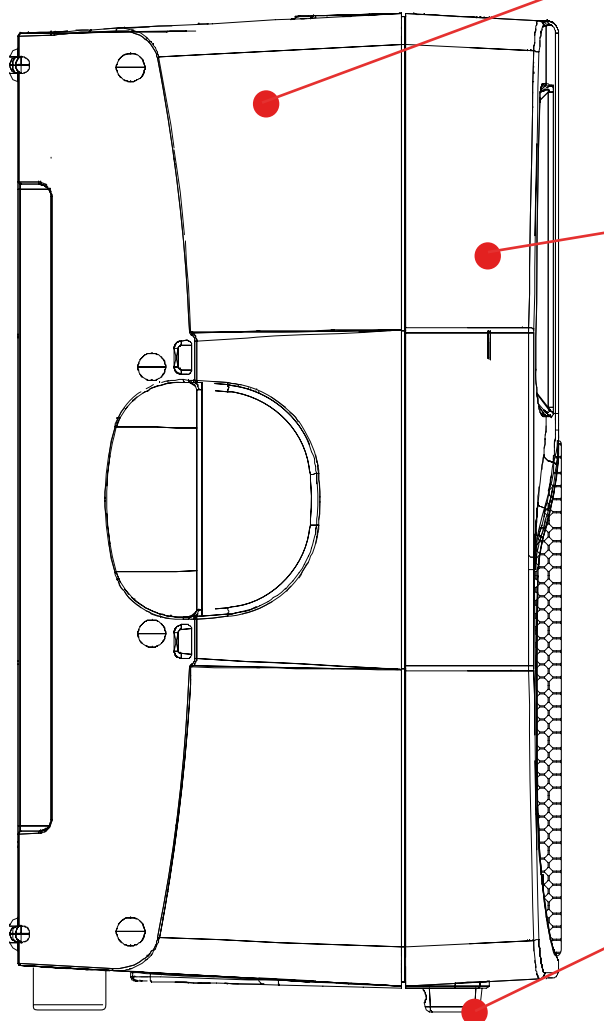
A08880B

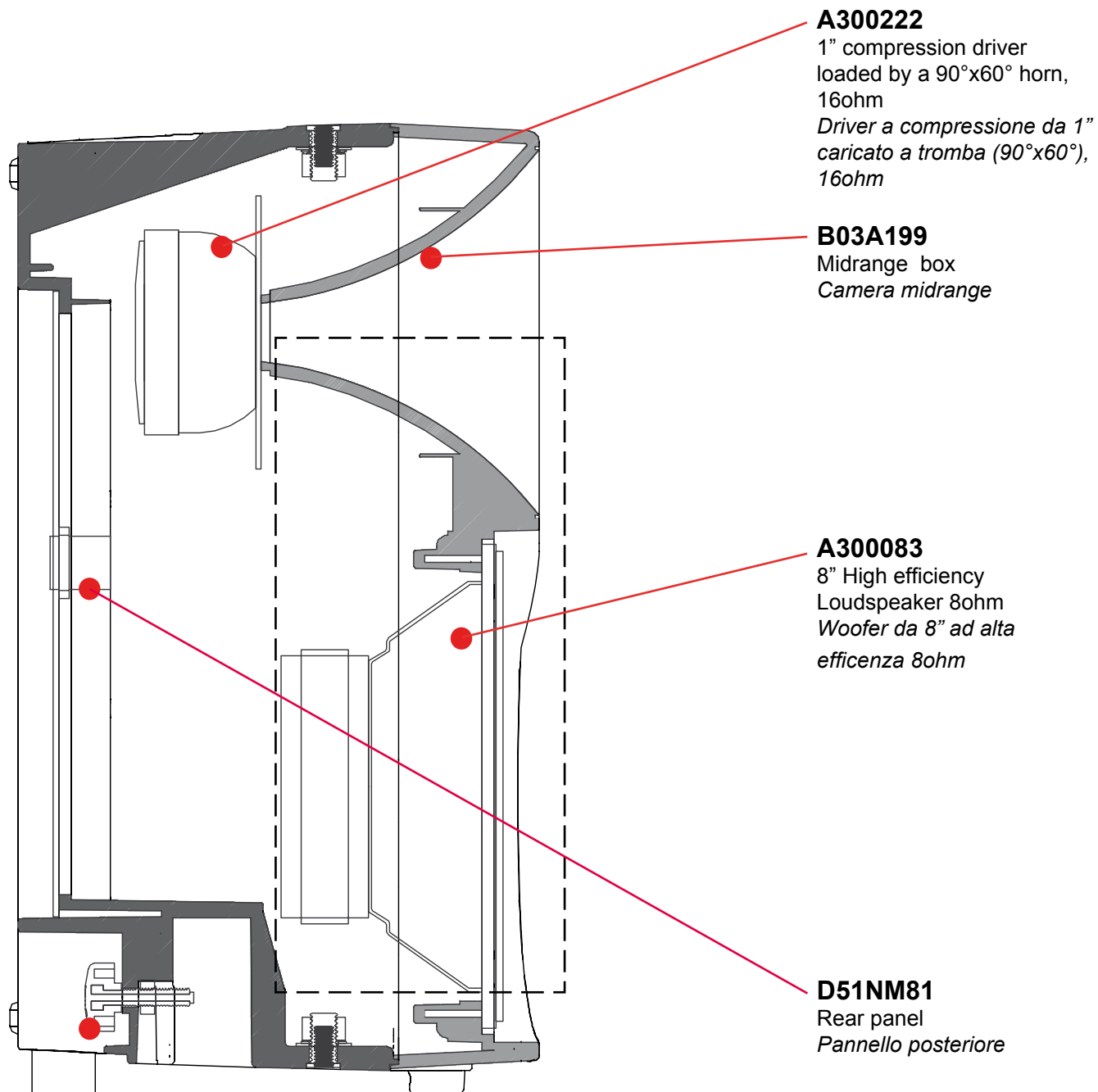
Foot
Gommino di appoggio

A088103

Internal threaded insert
(M8) for brackets
Inserto filettato (M8) per
fissaggio di
supporti

Speaker stand adaptor
with safety lock
Adattatore per supporto
asta con fermo di sicurez-
za

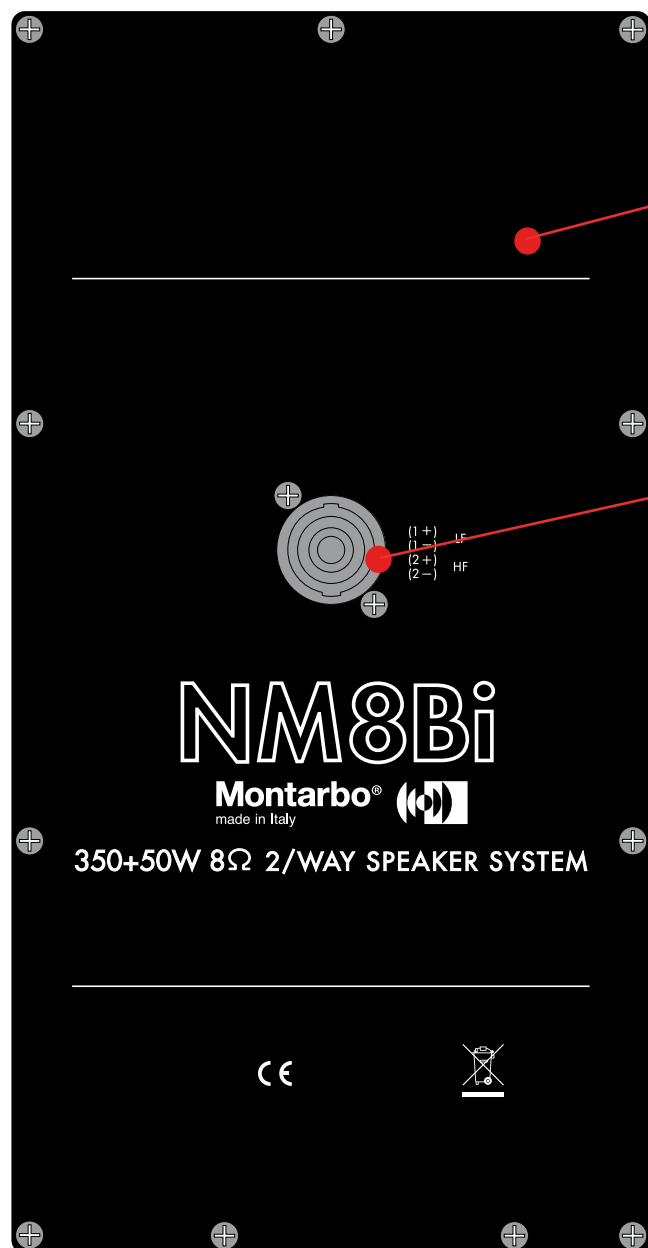




D51NM81

REAR PANEL

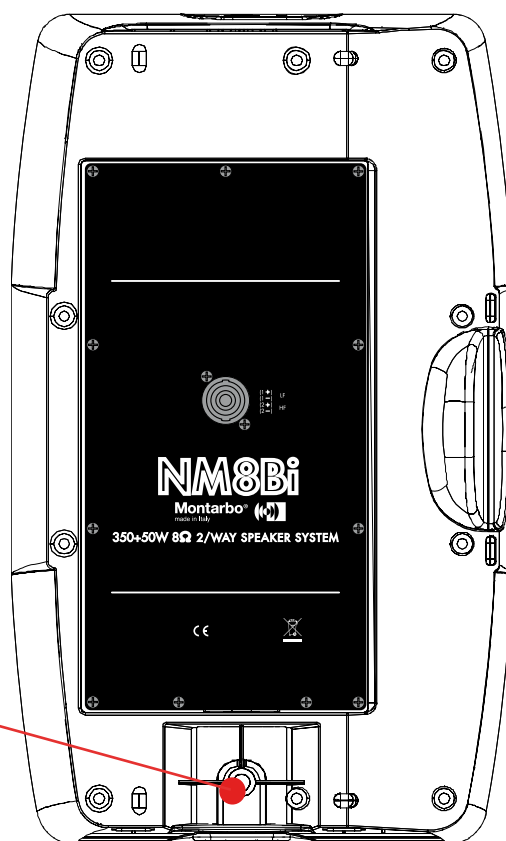
PANNELLO POSTERIORE

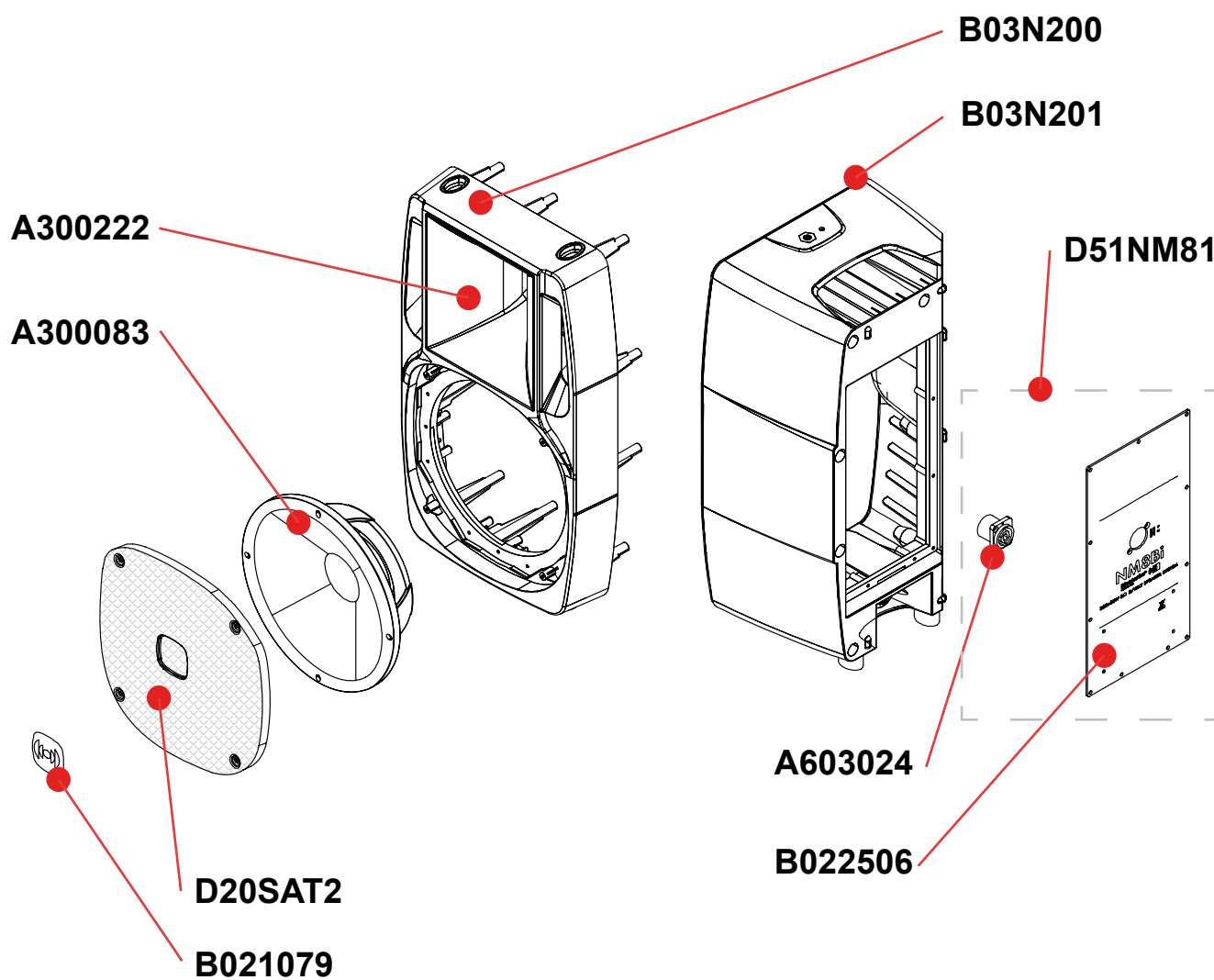


B022506
 Silk-screen panel
Pannello serigrafato

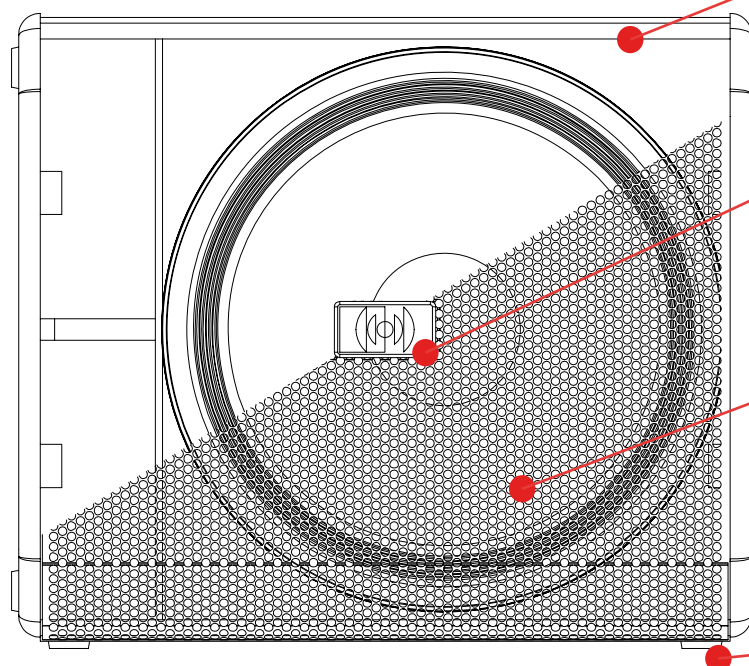
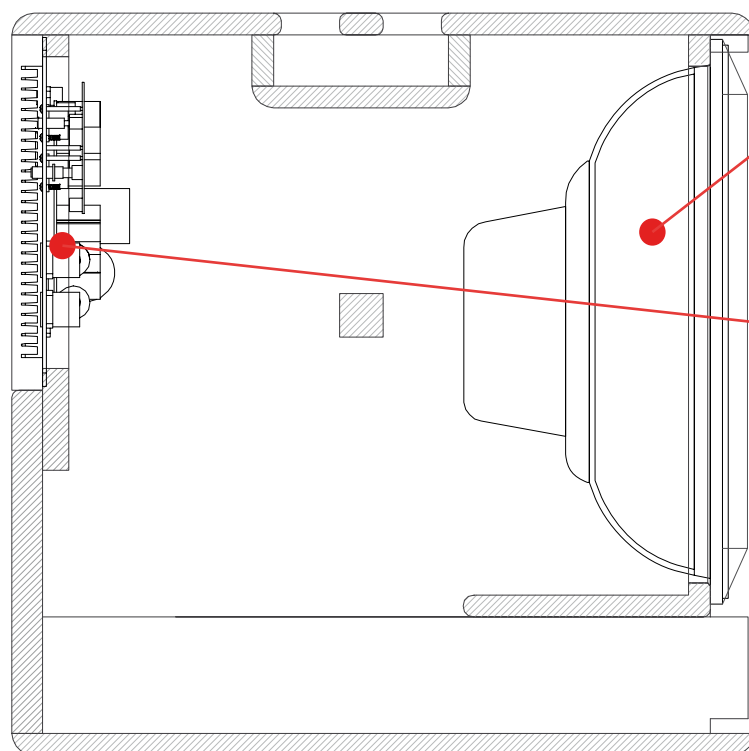
A603024
 SpeakON® connector
Presa speakON®

A088104
 Safety lock
Fermo di sicurezza





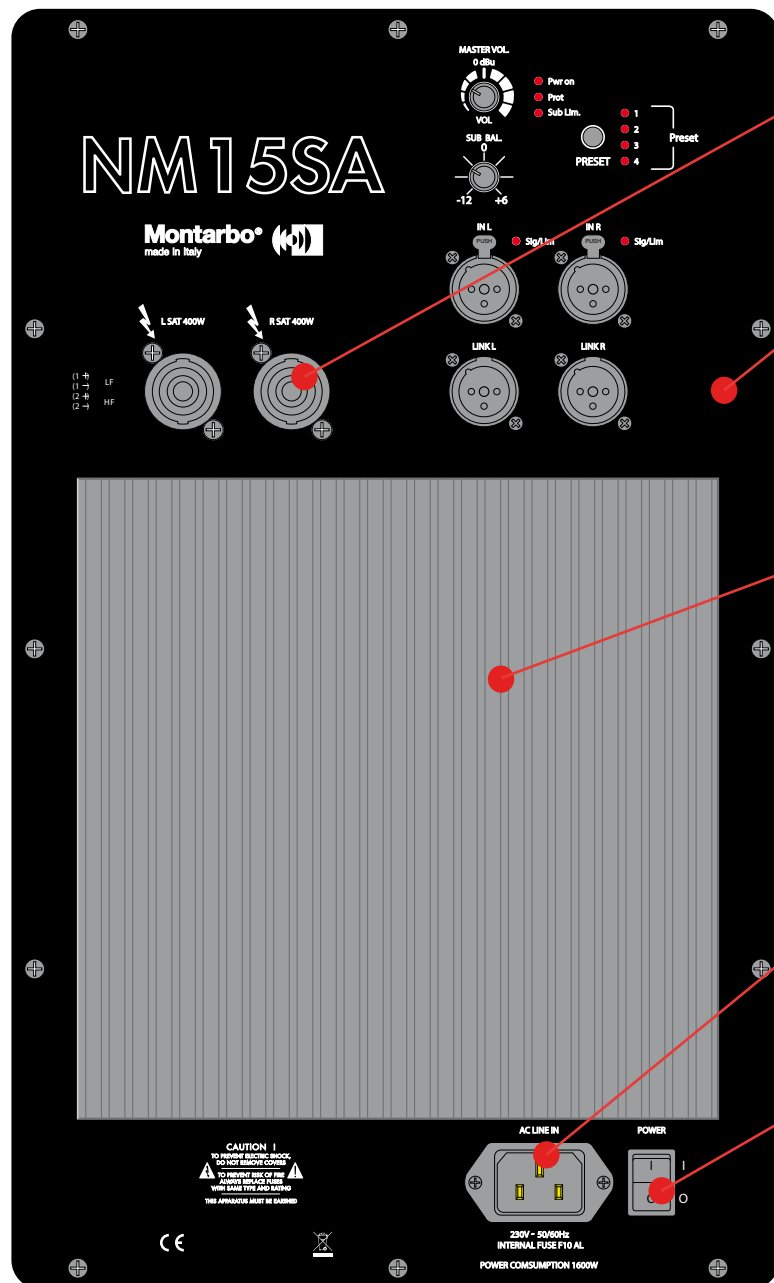
D52N154

 NM15SA enclosure
Cassa acustica NM15SA

B03NM15
 Bass cabinet
Unità bassi
B021109
 Lenticular adhesive
 name plate
Targhetta adesiva
D20N152
 Steel protection grille
*Griglia di acciaio
 di protezione*
A088805
 Feet
Gommino

A300A25
 15" woofer, 4ohm
Woofer 15" da 4ohm
D52N150
 Control and connections
 panel
*Pannello controlli
 e connessioni*
B010023
 Pole mount adapter
Adattatore per asta

D52N150

REAR PANEL

PANNELLO POSTERIORE



A603024

SpeakON® connector
Presa speakON®

B02NM15

Silk-screen panel
Pannello serigrafato

B013168

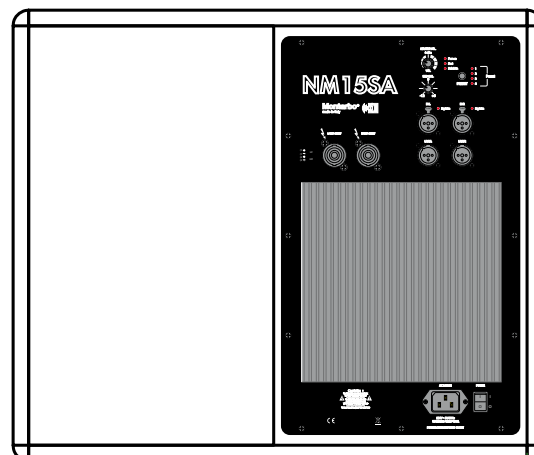
Heat-sink
Radiatore

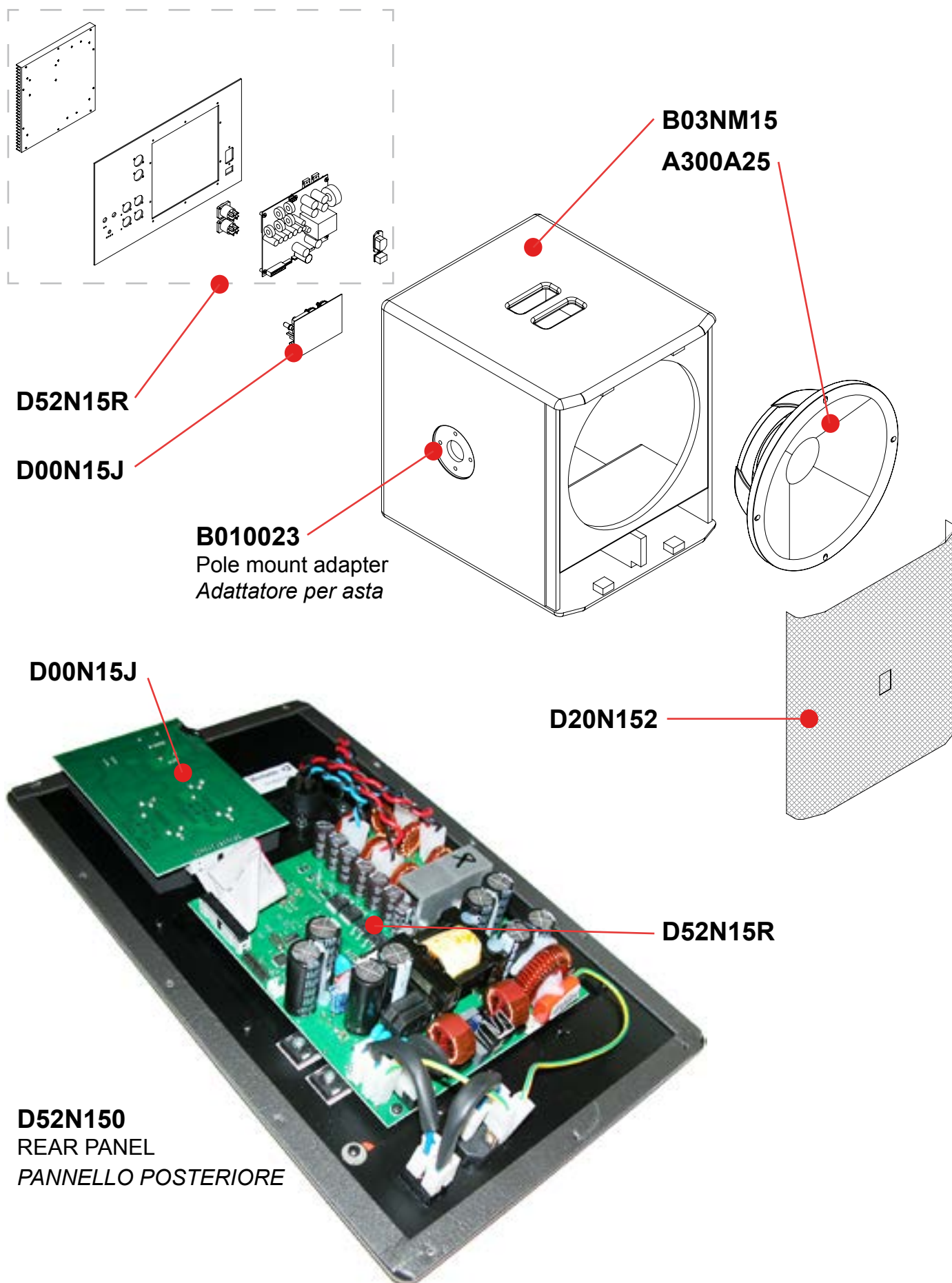
A603102

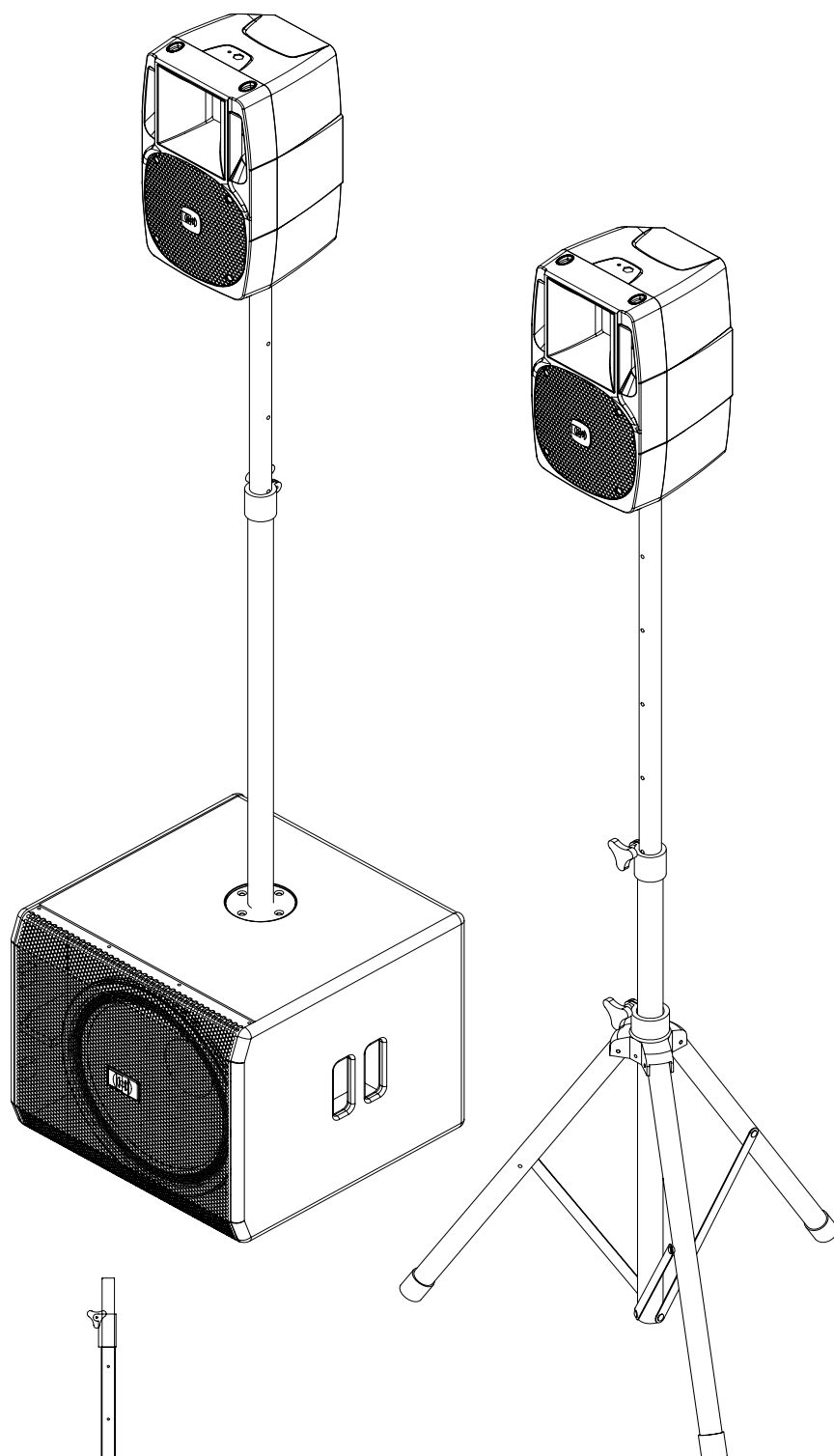
I.E.C. power supply
socket
Adattatore per asta

A900018

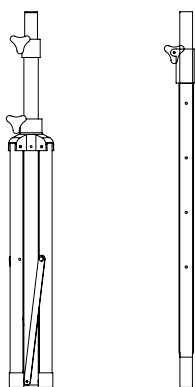
Power ON/OFF socket
Presa a vaschetta



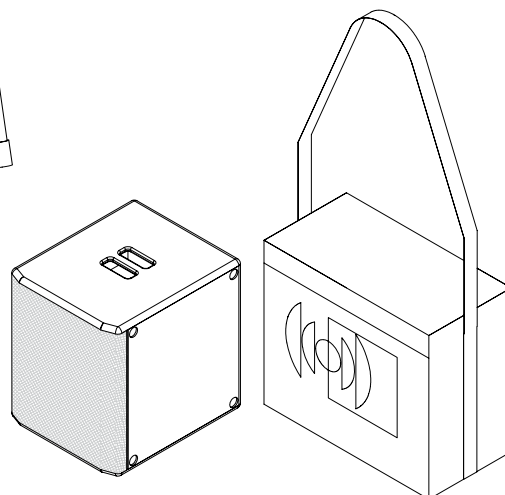




**PROVIDED
IN DOTAZIONE**
Bag for both satellites
Borsa per satelliti

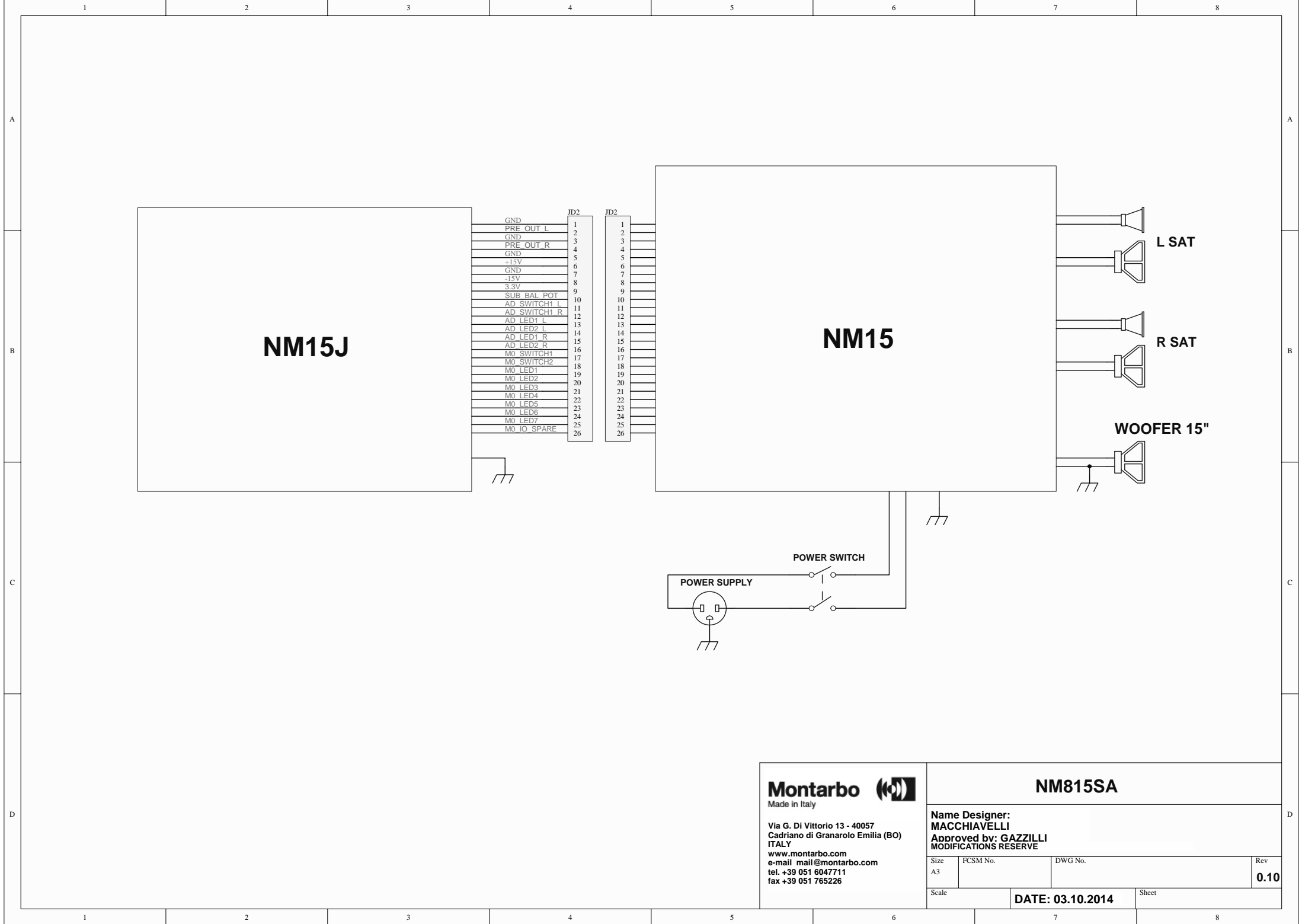
**OPTIONAL**

Stands are not provided
Le aste non sono in dotazione



System	2 sats + 1 subwoofer	Sistema	2 satelliti + 1 subwoofer
NM8Bi		NM8Bi	
Sat enclosure	2-way bass-reflex biamp	Satellite	2 vie bass-reflex biamplificato
Frequency response	100Hz ÷ 20kHz	Risposta in frequenza	100Hz ÷ 20kHz
Peak SPL	127dB	Max SPL	127dB
Handling power	350W + 50W	Potenza di utilizzo	350W + 50W
Components	Custom-designed by Montarbo®	Componenti	Disegnati su specifiche di Montarbo®
- LF	8" woofer, 2,5" voice coil and ferrite magnet	- LF	8" woofer con bobina 2,5", magnete in ferrite
- HF	1" throat-driver and 1,4" voice coil, 90°x60° constant directivity horn (molded into the cabinet)	- HF	driver con gola da 1", bobina 1,4" caricato a tromba a direttività costante 90°x60° (integrata nello stampo)
Connections	speakON® connector	Conessioni	connettore SpeakON®
Construction	polypropylene	Costruzione	polipropilene
Fitting	stell protection grille ventilation ports transport handles stand adapter feet rigging points	Dotazioni	griglia di protezione in acciaio tubi di raccordo maniglia per il trasporto adattatore per asta piedini di appoggio inserti filettati per appensione
Dimensions (WxHxD)	250x425x230mm	Dimensionis (LxHxP)	250x425x230mm
Weight	7,9kg	Peso	7,9kg
NM15SA		NM15SA	
Sub enclosure	bass-reflex	Subwoofer	bass cabinet attivo
Frequency response	40Hz ÷ 100Hz	Risposta in frequenza	40Hz ÷ 100Hz
Peak SPL	130dB	Max SPL	130dB
Tranducer	15" subwoofer, 3" voice coil with shielded and vented neodymium magnet	Tranducer	15" subwoofer con bobina da 3", magnete al neodimio schermato e ventilato
Built-in amplifier	5 class-D power units	Amplificatore	5 amplificatori in classe D
Sub power	800W	Sub power	800W
Sat LF power	350W + 350W	Sat LF power	350W + 350W
Sat HF power	50W +50W	Sat HF power	50W +50W

Built-in DSP	Dual DSP Montarbo®, 24bit converter	Built-in DSP	<i>doppio DSP Montarbo®, 24bit converter</i>
Filtering	FIR filters, 4 presets	Filtri	<i>filtraggio FIR on 4 preset</i>
Connections	2 speakON connectors 2 XLR balance inputs 2 LINK inputs	Conessioni	<i>2 prese speakON 2 ingressi XLR bilanciati 2 ingressi LINK in parallelo a ingressi bilanciati</i>
Controls	Volume control, Sub Balance control, Preset selection	Controlli	<i>controllo volume, controllo bilanciamento subwoofer selezione Preset</i>
Construction	Birch plywood cabinet, anti-scratch paint finishing	Costruzione	<i>cabinet in multistrato di be- tulla, vernice anti-abrasioni</i>
Fitting	steel protection grille and foam ventilation ports side transport handles pole mount adapter	Dotazioni	<i>griglia di protezione in acciaio con foam antipol- vere tubo di raccordo maniglie per il trasporto adattatore per supporto asta</i>
Dimensions (WxHxD)	434x510x510mm	Dimensioni (LxHxP)	434x510x510mm
Weight	21,8kg	Peso	21,8kg



Montarbo 
Made in Italy

Via G. Di Vittorio 13 - 40057
Cadriano di Granarolo Emilia (BO)
ITALY
www.montarbo.com
e-mail mail@montarbo.com
tel. +39 051 6047711
fax +39 051 765226

NM815SA

Name Designer:
MACCHIAVELLI
Approved by: **GAZZILLI**
MODIFICATIONS RESERVE

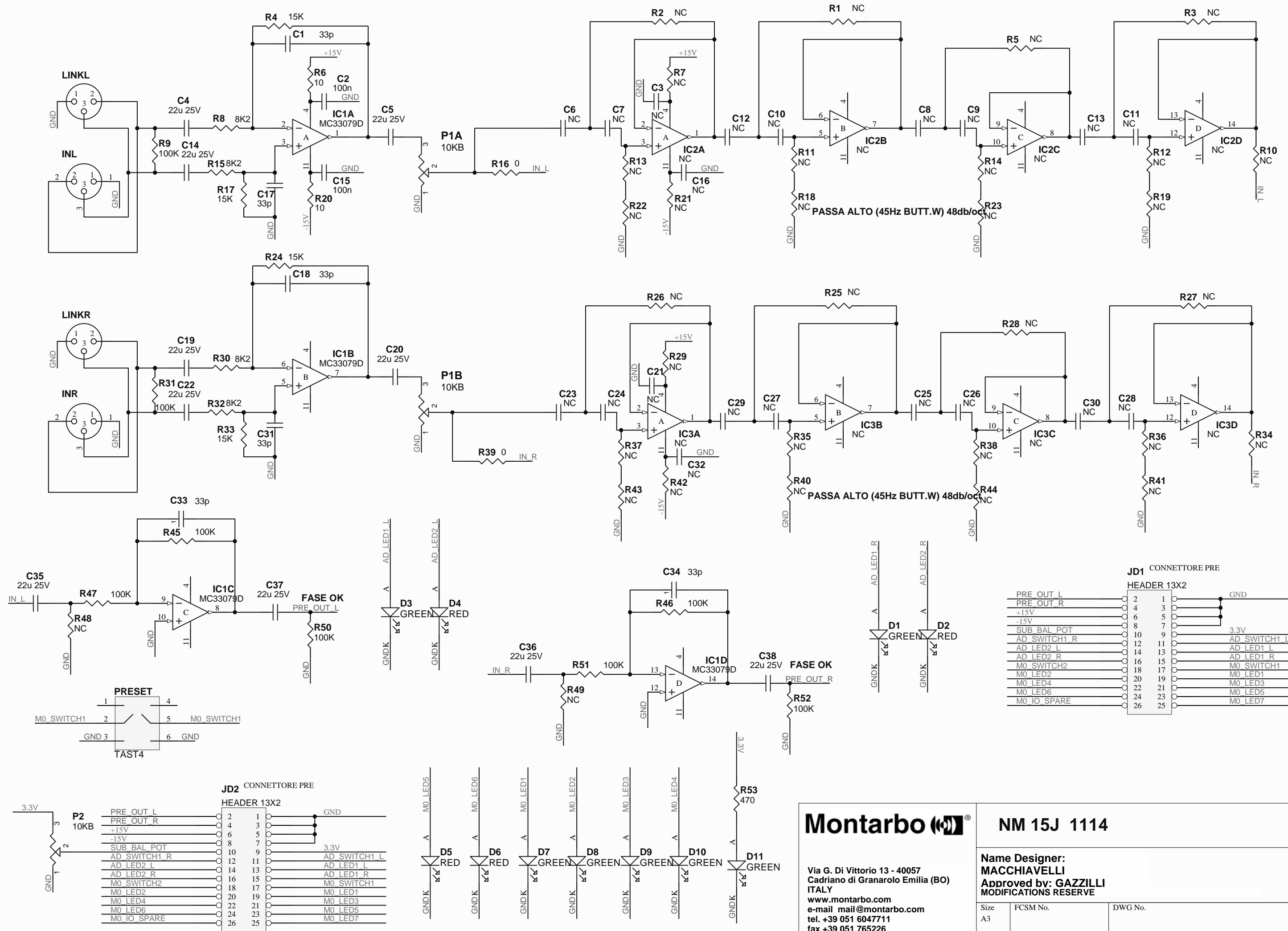
Size A3	FCSM No.	DWG No.	Rev 0.10
------------	----------	---------	--------------------

Scale **DATE: 03.10.2014** Sheet

D00N15J	CS NM15J	Preamplifier <i>Preamplificatore</i>
D52N15R	CS NM15	Power amplifier <i>Finale di potenza</i>

PREAMPLIFIER
PREAMPLIFICATORE

[illegible]



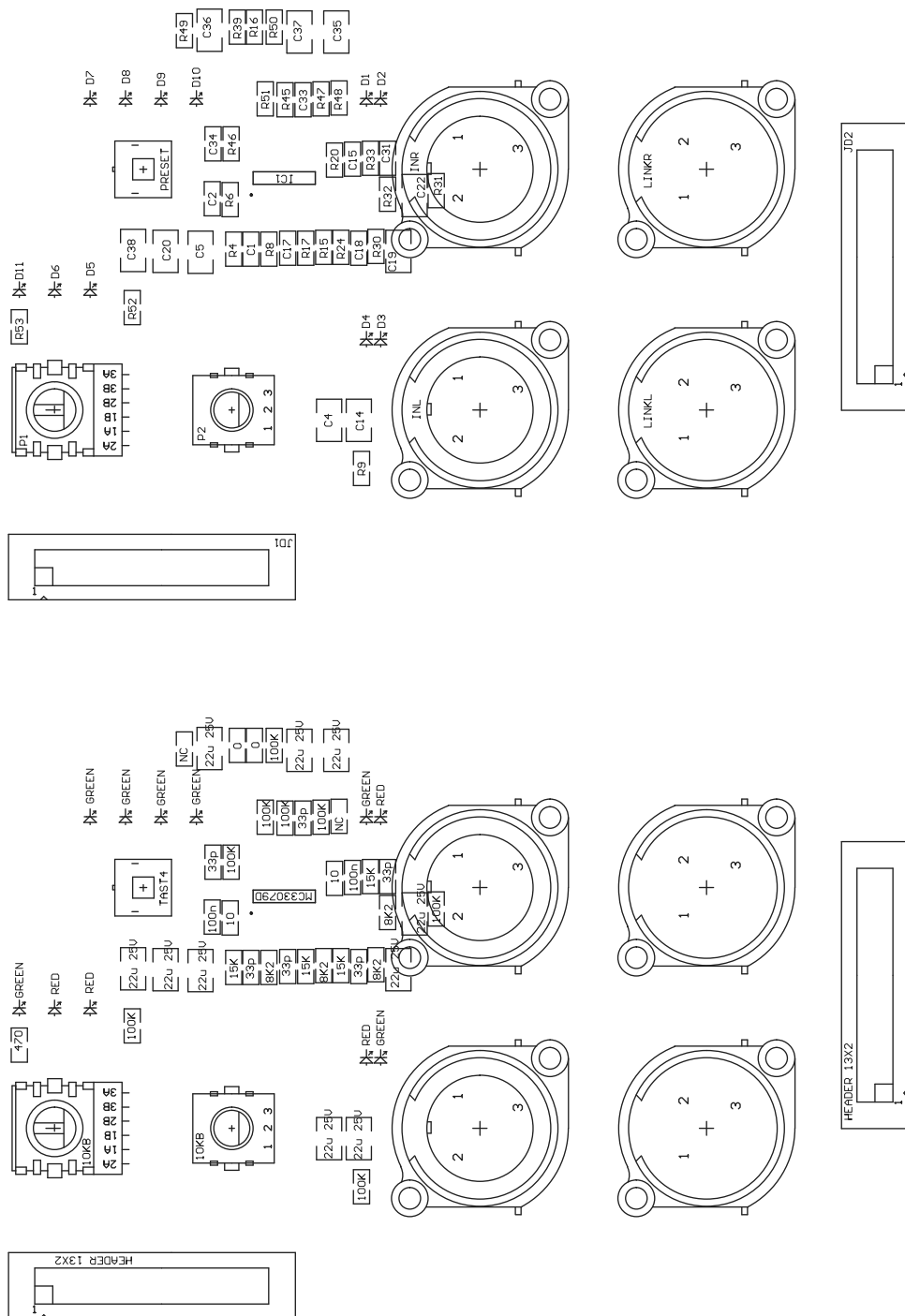
Montarbo

Via G. Di Vittorio 13 - 40057
Cadriano di Granarolo Emilia (BO)
ITALY
www.montarbo.com
e-mail mail@montarbo.com
tel. +39 051 6047711
fax +39 051 765226

NM 15J 1114

Name Designer:
MACCHIAVELLI
Approved by: GAZZILLI
MODIFICATIONS RESERVE

Size A3	FCSM No.	DWG No.	Rev 0.00
Scale		DATE: 28.03.2014	Sheet



MODIFICATION RESERVEES - ANDERUNGEN VORBEHALTEN - CON RISERVA DI MODIFICHE - ALTERATIONS RESERVED - CON RESERVA DE MODIFICACION

ELETTRONICA **Montarbo**



BOLOGNA
s.r.l. ITALY

date

48.13

rev

code

N15J
D00N15J

Via G. Di Vittorio 13 - 40057 - Cadriano di Granarolo Emilia - Bologna tel. +39 0516047711 fax +39 051765226

CS NM15

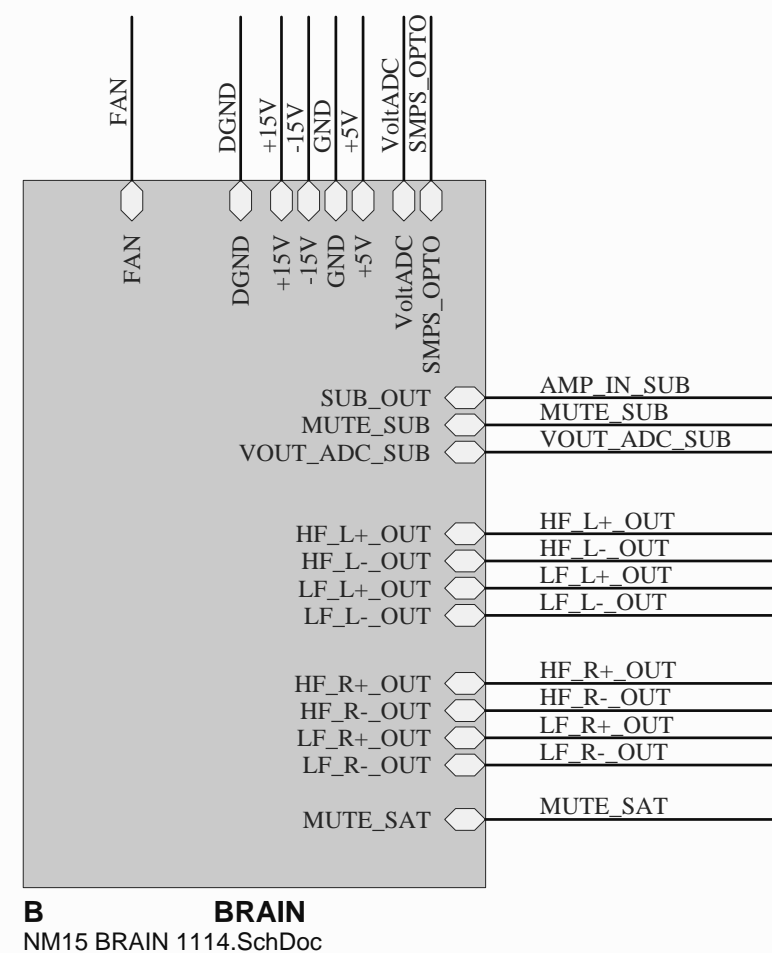
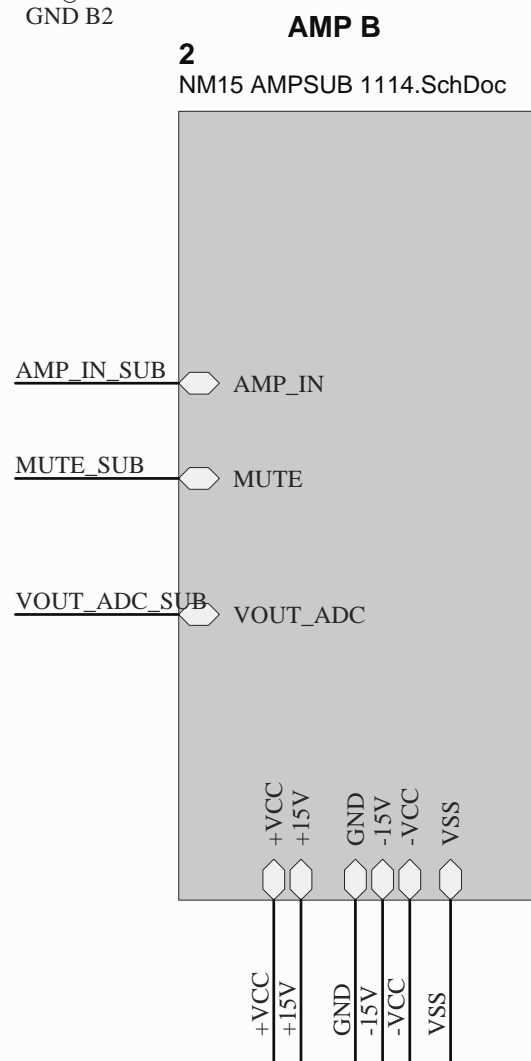
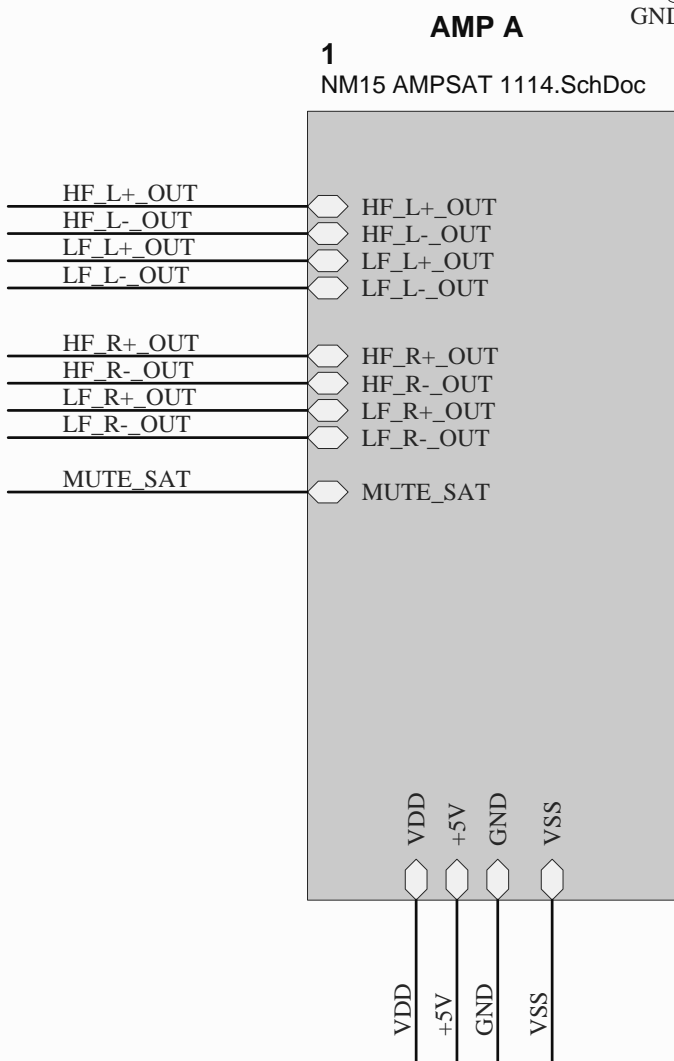
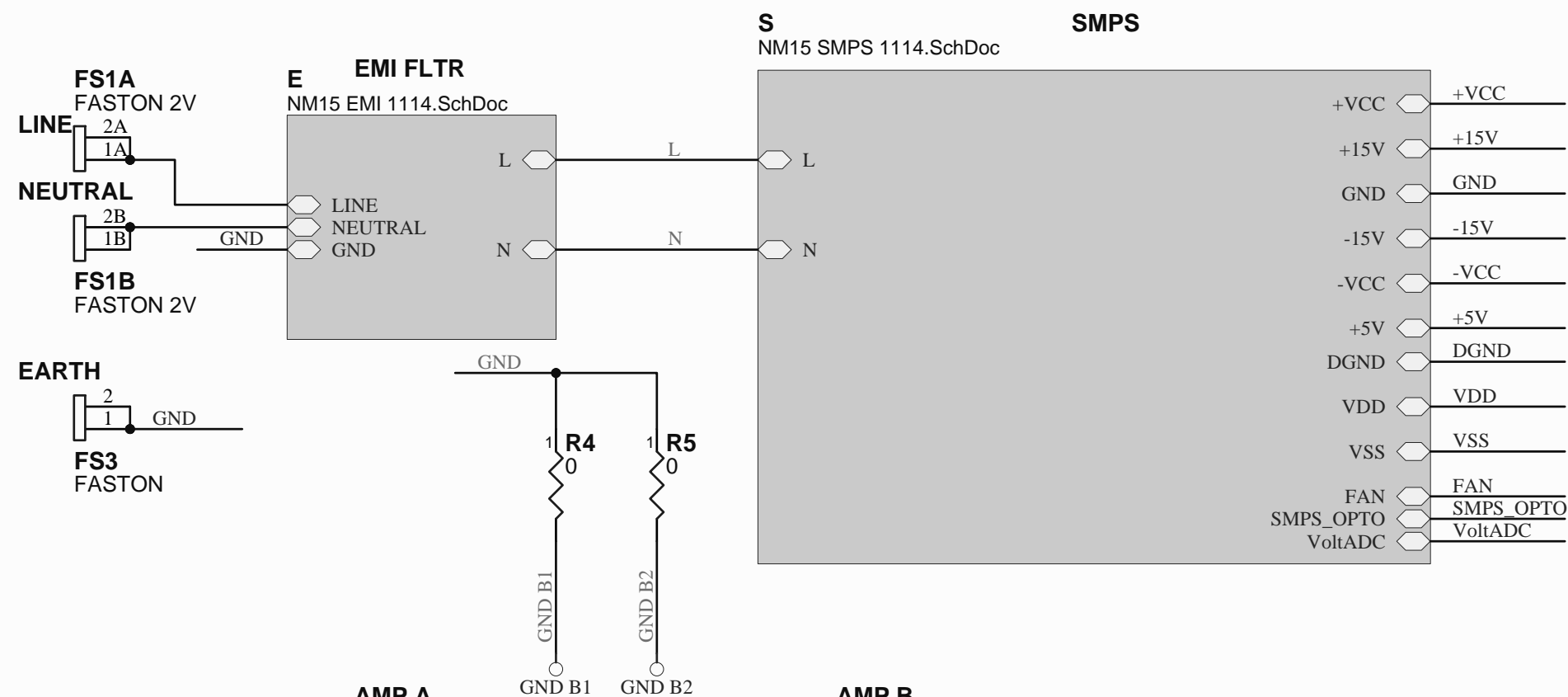
POWER AMPLIFIER
FINALE DI POTENZA

REFERENCE <i>REFERENZA</i>	CODE CODICE	DESCRIPTION <i>DESCRIZIONE</i>	QT.
FD1 -FD2 -FD3 -FD4 -FD5 -FD6 -FD7 -FD8 -FD9 -			
FD10 -FD11 -FD12 -FD13 -FD14 -FD15 -FD16 -FD17 -			
RC43 -RD48 -RD51 -RD89 -RD99 -RD109 -RD111 -			
RD112 -RD113 -RD115	A116000	RESISTOR <i>RESIST. SMD 5% 0603 0 Ω</i>	27
R4 -R5	A117000	RESISTOR <i>RESIST. SMD 5% 2512 0 Ω</i>	2
RA2 -RA3 -RA4 -RA5 -RB1 -RB2 -RB3 -RB4	A113683	RESISTOR <i>RESIST. SMD 5% 1206 68K Ω</i>	8
RB5	A112223	RESISTOR <i>RESIST. SMD 5% 0805 22K Ω</i>	1
RB6 -RB7 -RB21 -RC19 -RC26 -RC27 -RC31 -RC32 -			
RE3 -RE8 -RE10 -RE11 -RE21 -RE22 -RE25 -RE30 -			
RE32 -RE33	A113100	RESISTOR <i>RESIST. SMD 5% 1206 10 Ω</i>	18
RB8 -RB9 -RB10 -RB11 -RB32 -RB33	A117152	RESISTOR <i>RESIST. SMD 5% 2512 1K5 Ω</i>	6
RB14 -RB15	A113221	RESISTOR <i>RESIST. SMD 5% 1206 220 Ω</i>	2
RB16 -RB29 -RB31 -RC3 -RFB1 -RFREQ	A112102	RESISTOR <i>RESIST. SMD 5% 0805 1K Ω</i>	6
RB17	A112180	RESISTOR <i>RESIST. SMD 5% 0805 18 Ω</i>	1
RB18	A113274	RESISTOR <i>RESIST. SMD 5% 1206 270K Ω</i>	1
RB19	A113331	RESISTOR <i>RESIST. SMD 5% 1206 330 Ω</i>	1
RB20	A113822	RESISTOR <i>RESIST. SMD 5% 1206 8K2 Ω</i>	1
RB22	A112273	RESISTOR <i>RESIST. SMD 5% 0805 27K Ω</i>	1
RB23 -RC23	A112562	RESISTOR <i>RESIST. SMD 5% 0805 5K6 Ω</i>	2
RB24	A112000	RESISTOR <i>RESIST. SMD 5% 0805 0 Ω</i>	1
RB25	A113102	RESISTOR <i>RESIST. SMD 5% 1206 1K Ω</i>	1
RB26 -RB27 -RC20	A113478	RESISTOR <i>RESIST. SMD 5% 1206 4Ω7</i>	3
RB28	A112331	RESISTOR <i>RESIST. SMD 5% 0805 330 Ω</i>	1
RB30 -RFB2	A112104	RESISTOR <i>RESIST. SMD 5% 0805 100K Ω</i>	2
RB42 -RB43	A117273	RESISTOR <i>RESIST. SMD 5% 2512 27K Ω</i>	2
RC5 -RC6	A113821	RESISTOR <i>RESIST. SMD 5% 1206 820 Ω</i>	2
RC10	A112392	RESISTOR <i>RESIST. SMD 5% 0805 3K9 Ω</i>	1
RC11 -RC18	A112332	RESISTOR <i>RESIST. SMD 5% 0805 3K3 Ω</i>	2
RC12 -RC24 -RC28 -RC33	A112103	RESISTOR <i>RESIST. SMD 5% 0805 10K Ω</i>	4
RC13	A112122	RESISTOR <i>RESIST. SMD 5% 0805 1K2 Ω</i>	1
RC14	A116224	RESISTOR <i>RESIST. SMD 5% 0603 220K Ω</i>	1
RC15 -RD45	A116334	RESISTOR <i>RESIST. SMD 5% 0603 330K Ω</i>	2
RC16	A116153	RESISTOR <i>RESIST. SMD 5% 0603 15K Ω</i>	1
RC21	A112472	RESISTOR <i>RESIST. SMD 5% 0805 4K7 Ω</i>	1
RC22	A112333	RESISTOR <i>RESIST. SMD 5% 0805 33K Ω</i>	1
RC29 -RC35 -RE4 -RE9 -RE15 -RE20 -RE26 -RE31	A117100	RESISTOR <i>RESIST. SMD 5% 2512 10 Ω</i>	8
RC34	A113001	RESISTOR <i>RESIST. SMD 5% 1206 1 Ω</i>	1
RC36	A112152	RESISTOR <i>RESIST. SMD 5% 0805 1K5 Ω</i>	1
RC37	A112682	RESISTOR <i>RESIST. SMD 5% 0805 6K8 Ω</i>	1
RC41 -RD18 -RD24 -RD26 -RD27 -RD28 -RD36 -			
RD69 -RD76 -RD78 -RD79 -RD80 -RD87	A116473	RESISTOR <i>RESIST. SMD 5% 0603 47K Ω</i>	13
RC42	A116822	RESISTOR <i>RESIST. SMD 5% 0603 8K2 Ω</i>	1
RC45	A117182	RESISTOR <i>RESIST. SMD 5% 2512 1K8 Ω</i>	1
RC44 -RD20 -RD49 -RD71 -RD97 -RD128	A116102	RESISTOR <i>RESIST. SMD 5% 0603 1K Ω</i>	6
RD1 -RD3 -RD5 -RD9 -RD10 -RD12 -RD15 -RD17 -			
RD21 -RD33 -RD34 -RD54 -RD58 -RD60 -RD62 -			
RD64 -RD65 -RD68 -RD72 -RD75 -RD84 -RD85 -			
RD103 -RD104 -RD105 -RD108 -RD117 -RD121 -			
RD123 -RD129 -RE46 -RE47 -RE48	A116103	RESISTOR <i>RESIST. SMD 5% 0603 10K Ω</i>	33
RD2 -RD7 -RD11 -RD57 -RD63 -RD67 -RE34 -RE35 -			
RE36 -RE40 -RE41 -RE42	A116562	RESISTOR <i>RESIST. SMD 5% 0603 5K6 Ω</i>	12
RD4 -RD8 -RD14 -RD16 -RD53 -RD55 -RD56 -RD61 -			
RD110 -RD112 -RD120 -RD127	A116100	RESISTOR <i>RESIST. SMD 5% 0603 10 Ω</i>	12
RD6 -RD13 -RD59 -RD66 -RD125 -RD126	A116101	RESISTOR <i>RESIST. SMD 5% 0603 100 Ω</i>	6
RD19 -RD22 -RD29 -RD31 -RD70 -RD73 -RD81 -			
RD83	A116470	RESISTOR <i>RESIST. SMD 5% 0603 47 Ω</i>	8
RD23 -RD74	A116683	RESISTOR <i>RESIST. SMD 5% 0603 68K Ω</i>	2
RD25 -RD77	A116392	RESISTOR <i>RESIST. SMD 5% 0603 3K9 Ω</i>	2
RD30 -RD47 -RD95	A116183	RESISTOR <i>RESIST. SMD 5% 0603 18K Ω</i>	3
RD32 -RD35	A116152	RESISTOR <i>RESIST. SMD 5% 0603 1K5 Ω</i>	2
RD39 -RE1 -RE2 -RE6 -RE7 -RE12 -RE13 -RE17 -			
RE18 -RE23 -RE24 -RE28 -RE29	A116104	RESISTOR <i>RESIST. SMD 5% 0603 100K Ω</i>	13
RD40 -RD42 -RD52 -RD88 -RD90 -RD100 -RD101 -			
RD102 -RD114 -RD116 -RD118 -RD119 -RD130 -			
RE37 -RE38 -RE39	A116471	RESISTOR <i>RESIST. SMD 5% 0603 470 Ω</i>	16
RD106 -RD107	A116222	RESISTOR <i>RESIST. SMD 5% 0603 2K2 Ω</i>	2
RD122 -RD124 -RC38	A112272	RESISTOR <i>RESIST. SMD 5% 0805 2K7 Ω</i>	3

REFERENCE <i>REFERENZA</i>	CODE CODICE	DESCRIPTION <i>DESCRIZIONE</i>		QT.
RD93	A116331	RESISTOR	RESIST. SMD 5% 0603 330 Ω	1
RE5	PE14035	RESISTOR	RESIST. SMD 1% 0603 27K Ω	1
RE16	PE14041	RESISTOR	RESIST. SMD 1% 0603 24K9 Ω	1
RE27	PE14040	RESISTOR	RESIST. SMD 1% 0603 34K8 Ω	1
RE43 -RE44 -RE45	A116474	RESISTOR	RESIST. SMD 5% 0603 470K Ω	3
RIN	A112822	RESISTOR	RESIST. SMD 5% 0805 8K2 Ω	1
NTD2 -NTD3	A188332	THERMISTOR	TERMISTORE NTC SMD 0805 3K3 Ω	2
RA1	A188100	THERMISTOR	TERMISTORE NTC S464 10 Ω	1
CA1 -CA2 -CA7	A214105	FILTER	FILTRO R46-KI-3100-5001M	3
CA3 -CA4 -CA5 -CA6 -CB7	A226106	CAPACITOR	COND. CR 1nF 4KV PASSO 10	5
CB1	A216474	CAPACITOR	COND. PL 470nF 400V 10% 15	1
CB2 -CB4 -CE20 -CE25 -CE42 -CE50 -CE67 -CE75	A221224	CAPACITOR	COND. CR SMD 0805 220nF 50V X7R 5%	8
CB3	A221331	CAPACITOR	COND. CR SMD 0805 330pF 50V NP0 5%	1
CB5	A219105	CAPACITOR	COND. PL 1 μ F 250V 10% 22,5	1
CB6 -CB16 -CB17 -CB18 -CB19 -CB21 -CC3 -CC8 - CC13 -CC23 -CC24 -CC25 -CC26 -CD4 -CD9 -CD21 - CD24 -CD28 -CD32 -CD33 -CD49 -CD53 -CD63 - CD67 -CD70 -CD74 -EB10	A224226	CAPACITOR	COND. CR SMD 1210 22 μ F 25V	27
CB8 -CB9	A225105	CAPACITOR	COND. CR SMD 1206 1 μ F 50V	2
CB10 -CB11	A216224	CAPACITOR	COND. PL 220nF 100V 10% 10 (PREFORM)	2
CB12 -CB13 -CB14 -CB15 -CE3 -CE4 -CE9 -CE10 - CE14 -CE15 -CE17 -CE23 -CE28 -CE29 -CE34 -CE35 -CE39 -CE40 -CE43 -CE49 -CE53 -CE54 -CE59 - CE60 -CE64 -CE65 -CE68 -CE74	A221104	CAPACITOR	COND. CR SMD 0805 100nF 50V X7R 5%	28
CB20 -CC4 -CC5 -CC6	A221102	CAPACITOR	COND. CR SMD 0805 1nF 50V NP0 5%	4
CB23 -CB24 -CC9 -CC15 -CC19 -CE24 -CE46 -CE71	A224224	CAPACITOR	COND. CR SMD 1210 220nF 250V X7R	8
CC2	A221222	CAPACITOR	COND. CR SMD 0805 2n2F 50V NP0 5%	1
CC7 -CC12 -CC27 -CD11 -CD12 -CD22 -CD35 -CD38 -CD55 -CD56 -CD64 -CD76 -CD79 -CE5 -CE6 -CE11 -CE13 -CE30 -CE31 -CE36 -CE38 -CE55 -CE56 -CE61 -CE63 -CE76 -CE77 -CE78	A224106	CAPACITOR	COND. CR SMD 1210 10 μ F 25V	28
CC10 -CD43 -CD84	A223332	CAPACITOR	COND. CR SMD 0603 3n3F 50V NP0 5%	3
CC11	A223103	CAPACITOR	COND. CR SMD 0603 10nF 50V X7R 5%	1
CC14	A221151	CAPACITOR	COND. CR SMD 0805 150pF 50V NP0 5%	1
CC16 -CC17 -CC21	A222102	CAPACITOR	COND. CR SMD 1206 1nF 250V	3
CC18	A222104	CAPACITOR	COND. CR SMD 1206 100nF 250V	1
CC20	A219155	CAPACITOR	COND. PL 1 μ 5F 250V 10% 27	1
CC22 -CD3 -CD6 -CD10 -CD13 -CD14 -CD15 -CD16 - CD19 -CD20 -CD23 -CD36 -CD37 -CD39 -CD42 - CD44 -CD46 -CD47 -CD50 -CD57 -CD58 -CD59 - CD61 -CD62 -CD66 -CD78 -CD80 -CD83 -CD85 - CD86 -CD89 -CD90 -CD91	A223104	CAPACITOR	COND. CR SMD 0603 100nF 50V X7R 5%	33
CC28	A221105	CAPACITOR	COND. CR SMD 0805 1 μ F 50V X7R 10%	1
CD1 -CD2 -CD5 -CD7 -CD8 -CD17 -CD27 -CD45 - CD48 -CD51 -CD52 -CD54 -CD65	A223330	CAPACITOR	COND. CR SMD 0603 33pF 50V NP0 5%	13
CD18 -CD25 -CD26 -CD31 -CD60 -CD68 -CD69 -CD73	A223273	CAPACITOR	COND. CR SMD 0603 27nF 50V X7R 5%	8
CD29 -CD30 -CD71 -CD72	A223101	CAPACITOR	COND. CR SMD 0603 100pF 50V NP0 5%	4
CD40 -CD81	A223563	CAPACITOR	COND. CR SMD 0603 56nF 50V X7R 5%	2
CD41 -CD82 -CD87 -CD88	A224473	CAPACITOR	COND. CR SMD 1210 47 μ F 6V3	4
CD75 -CD77	A223220	CAPACITOR	COND. CR SMD 0603 22pF 50V NP0 5%	2
CE1 -CE19 -CE26 -CE45 -CE51 -CE70	A224474	CAPACITOR	COND. CR SMD 1210 470nF 100V X7R	6
CE2 -CE16 -CE27 -CE41 -CE52 -CE66	A221153	CAPACITOR	COND. CR SMD 0805 15nF 50V X7R 5%	6
CE6	A2434AA	CAPACITOR	COND. RE3-25V 101MMA-T2 (100 μ F X 25V)	1
CE7 -CE8 -CE21 -CE22 -CE57 -CE58 -CE72 -CE73	A221221	CAPACITOR	COND. CR SMD 0805 220pF 50V NP0 5%	8
CE12 -CE37 -CE62	A221474	CAPACITOR	COND. CR SMD 0805 470nF 50V X7R 5%	3
CE18 -CE44 -CE69	A221101	CAPACITOR	COND. CR SMD 0805 100pF 50V NP0 5%	3
EB1 -EB4 -EB14 -EB16	A243106	CAPACITOR	COND. EV 330 μ F 200V CE18	4
EB2 -EB6 -EB12 -EB15	A243109	CAPACITOR	COND. EV 1000 μ F 100V 105° CE18	4
EB3 -EB5 -EB11 -EB13 -EB20 -EB21	A243111	CAPACITOR	COND. 1000 μ F 50V CE12.5	6
EB7	A2432AD	CAPACITOR	COND. RE2-25V 221MMA-T2(220 μ F X 25V)	1
EB9 -EB18 -EB19	A243110	CAPACITOR	COND. 1000 μ F 25V CE10	3
YD1	A270011	CRYSTAL QUARTZ	QUARZO SMU4 -30-30/50 12,2880MHZ	1
LCD2	A270110	COIL	BOBINA SMD 150mHr FJ026115-R	1
QB1	A500107	TRANSISTOR	TRANSISTOR MJE 15034 NPN	1
QB2 -QB3	A500131	MOSFET	MOSFET IPW60R160C6 600V	2
QB4 -QB5 -QE1 -QE2 -QE3	A501053	TRANSISTOR	TRANSISTOR SMD MMBTA06LT1 NPN	5
QC7 -QC9	A501057	TRANSISTOR	TRANSISTOR SMD ZXTN25100B	2

REFERENCE <i>REFERENZA</i>	CODE CODICE	DESCRIPTION <i>DESCRIZIONE</i>	QT.
QC8 -QC10	A501058	TRANSISTOR <i>TRANSISTOR SMD ZXTP25100B</i>	2
QC11 -QC12	A500132	MOSFET <i>MOSFET IRFB4227</i>	2
QD1 -QD2	A501055	TRANSISTOR <i>TRANSISTOR SMD PMBT 4403</i>	2
DB1 -DB6 -DC3 -DC7	A510020	DIODE <i>DIODO SMD LL 4148 (GS08)</i>	4
DB2 -DD1 -DD2 -DD3 -DD4	A510041	DIODE <i>DIODO ZENER SMD 15V SOD123 MINIMELF</i>	5
DB3	A510029	DIODE <i>DIODO ZENER MELF SMD 15V 1W</i>	1
DB4 -DB5 -DB14 -DB15 -DB16 -DB17	A510014	DIODE <i>DIODO SMA SMD SCHOTTKY STPS2H100A</i>	6
DB7 -DB8 -DB9	A510011	DIODE <i>DIODO STH2003CT</i>	3
DB10 -DC2 -DC4	A510032	DIODE <i>DIODO ZENER SMD MMSZ5V1T1G</i>	3
DB11 -DC6	A510036	DIODE <i>DIODO ZENER SMD 3V3 SOD123</i>	2
DB12	A510021	DIODE <i>DIODO S1M-E3/61T (1N 4007)</i>	1
DB20 -DB21 -DB22 -DB23	A510013	DIODE <i>DIODO SMD MBRB20100CTTG</i>	4
DC5 -DC9 -DC10 -DC11 -DC12	A510016	DIODE <i>DIODO SMD MURS120T3G VELOCE</i>	5
REGB1	A550009	INTEGRATED <i>INTEGRATO L78S15CV-DG STM</i>	1
REGB2	A550015	INTEGRATED <i>INTEGRATO L7915CV -DG STM</i>	1
UB1	A550136	INTEGRATED <i>INTEGRATO IRS21531DSPBF</i>	1
UB2	A550005	INTEGRATED <i>INTEGRATO LNK625PG</i>	1
UB3 -UC3	A550132	INTEGRATED <i>INTEGRATO FOTOACCOPIATORE KB817</i>	2
UC1	A550134	INTEGRATED <i>INTEGRATO IRS2092S</i>	1
UC4	A550080	INTEGRATED <i>INTEGRATO REG SWITCH LM5018MR PSOP-8</i>	1
UD1 -UD2 -UD3	A551017	INTEGRATED <i>INTEGRATO SMD MC 33079D REEL</i>	3
UD4	A551016	INTEGRATED <i>INTEGRATO SMD 33078D (ON-SEMI)</i>	1
UD5 -UD6	A551825	INTEGRATED <i>INTEGRATO SMD ANAADAU1701JSTZ DSP</i>	2
UD7	A551829	INTEGRATED <i>INTEGRATO SMD LPC1227FBD48/301</i>	1
UD10	A550187	INTEGRATED <i>INTEGRATO REG SMD LM1117-MP-3.3(N05A)</i>	1
UD11	A551811	INTEGRATED <i>INTEGRATO SMD SN74LV04AD</i>	1
AMPE1 -AMPE2 -AMPE3	A551002	INTEGRATED <i>INTEGRATO SMP TDA8950TH</i>	3
BD1 -BD2	A605007	SINGLE PHASE BRIDGE RECTIFIERS <i>PONTE DIODI 8A</i>	2
10AF	A600199	FUSE <i>FUSIBILE RIT T10A 5x20</i>	1
10AF	A600802	FUSE HOLDER <i>PORTA FUSIBILE C 1018* CE 5518</i>	1
JB1	A603081	MALE CONNECTOR <i>CONN MASC JST B2B-XH-A VERTICALE</i>	1
JD1	A603680	BREAKAWAY HEADERS <i>STRIP MS/SF 40P</i>	0.20
JD1	A603684	BREAKAWAY HEADERS <i>STRIP C2x 40M</i>	0.20
JD2	A603178	MALE CONNECTOR <i>CONN MASC CS AWHW 26G</i>	1
TEST	A603701	TAG <i>PAGLIETTA x CS L979</i>	2
FS1 -FS3 -FSA3 -FSA4 -FSE1 -FSE2 -FSE3 -FSE4 - FSE5 -FSE6 -FSE7 -FSE8	A603735	PCB SPADE TERMINATOR <i>FASTON MASC CS TE342 08</i>	13
TRB2	B005003	TRANSFORMER <i>TRASFORMATORE WE 7508110104</i>	1
TRN1	B005012	TRANSFORMER <i>TRASFORMATORE MODULO FULL J</i>	1
LA1 -LA2	B005471	INDUCTANCE <i>INDUTTANZA MODO COMUNE 20mH 2A</i>	2
LC1	B005472	INDUCTANCE <i>INDUTTANZA USCITA LF 22UH</i>	1
LL1 -LL2 -LL3 -LL4 -LL5 -LL6	B005473	INDUCTANCE <i>INDUTTANZA USCITA HF 22UH</i>	6
RADQB1	B005628	HEAT SINK <i>RADIATORE 8205/19/ST VERTICALE</i>	1
RAD1 -RAD2	B012005	HEAT SINK <i>RAD TDA TO200</i>	2
-	B012008	HEAT SINK <i>RAD SAT</i>	1
-	B013168	HEAT SINK <i>RADIATORE NM15SA PNN</i>	1
-	A556995	THERMAL PAD <i>THERMAL PAD PW1K (DISSIPATORE TERM)</i>	0.20
-	A556999	INSULATOR <i>ISOLATORE 15GHR TO3PF</i>	2
-	A557003	SCREW INSULATOR <i>PASSANTE TO220</i>	7
-	A557005	INSULATOR <i>ISOLATORE 15GHR TO220</i>	7
-	B004623	SPACERR <i>DISTANZIALE OTT EX/5 3MA M/F-8 VD000008</i>	5
NM15	B14NM15	PRINTED CIRCUIT <i>CS NM15 11.14</i>	1
-	A003310	CHEESE-HEAD SCREW <i>VITE T.C. + 3X10 Z DIN7985-UNI7687</i>	2
-	A003312	CHEESE-HEAD SCREW <i>VITE T.C. + 3X12 Z DIN7985</i>	4
-	A023306	CHEESE-HEAD SCREW <i>VITE T.C. + 3X6 BRUNITA DIN7985</i>	5
-	A023308	CHEESE-HEAD SCREW <i>VITE T.C. 3X8 BRUNITA DIN7985-UNI7687</i>	2
-	A024308	TPS FLAT HEAD SCREW <i>VITE T.PS. 3X8 Z N</i>	4
-	A088203	SCREW NUT <i>DANO 3MA ZB UNI5588</i>	4
-	A088403	CHAMFERED WASHER <i>RONDELLA BISELLATA D3 ZB DIN125A</i>	15
-	A088413	BROKEN WASHER <i>RONDELLA SPACCATA D3 UNI175HRC 43-50</i>	2
-	A088439	PLAIN WASHER <i>RONDELLA PIANA 3,2X9X1 Z NERA</i>	2

[illegible]



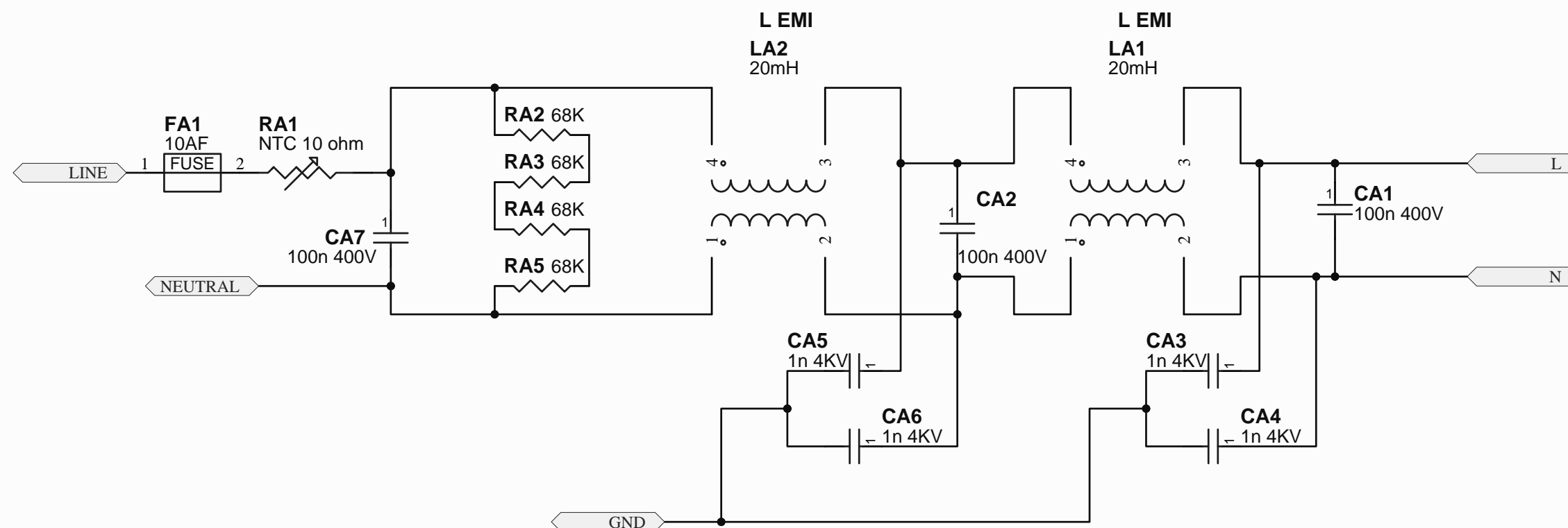
Montarbo 

Via G. Di Vittorio 13 - 40057
Cadriano di Granarolo Emilia (BO)
ITALY
www.montarbo.com
e-mail mail@montarbo.com
tel. +39 051 6047711
fax +39 051 765226

TOP NM15 1114

Name Designer:
MACCHIAVELLI
Approved by: GAZZILLI
MODIFICATIONS RESERVE

Size A4	FCSM No.	DWG No.	Rev 0.10
Scale	DATE: 28.03.2014		Sheet



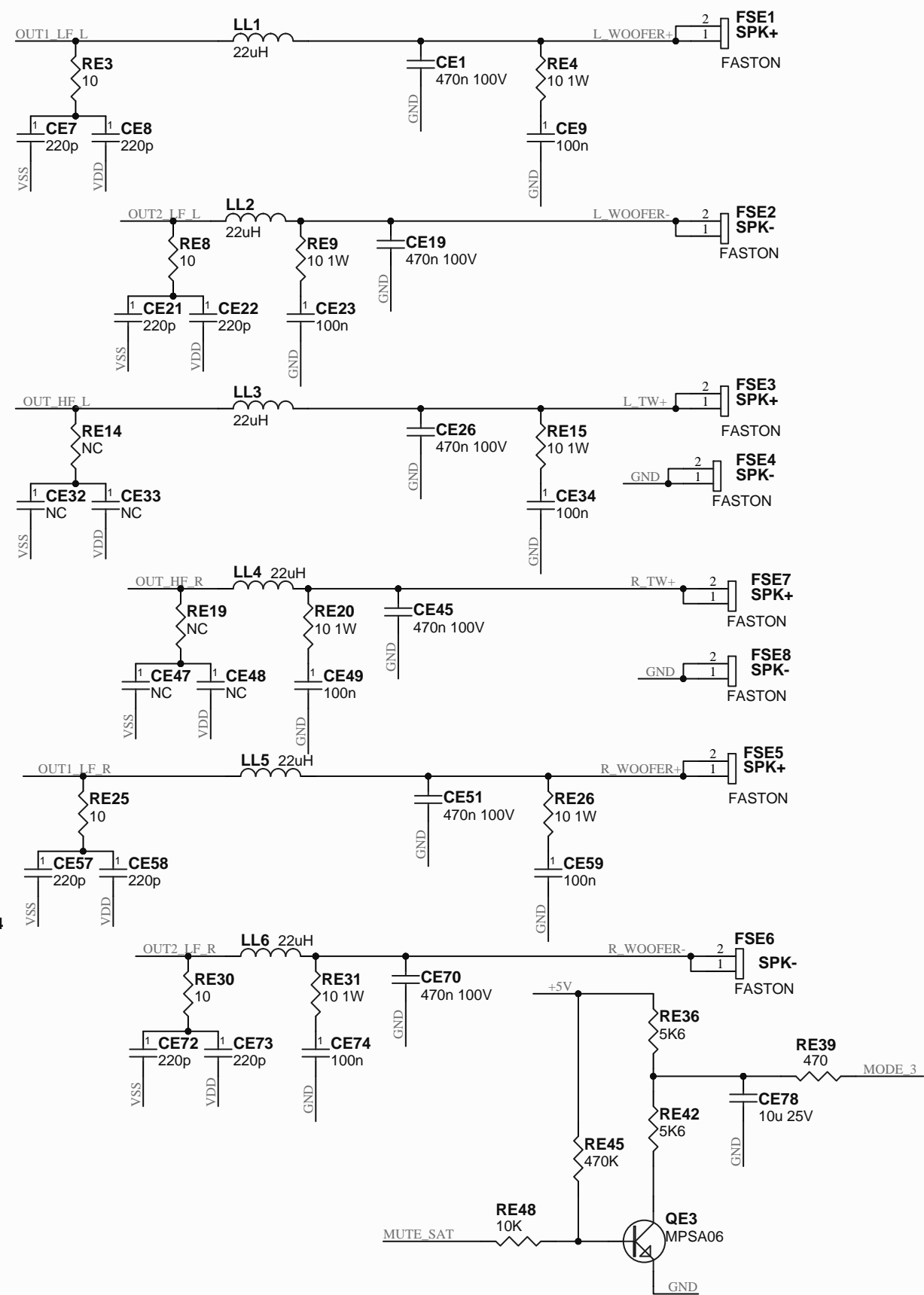
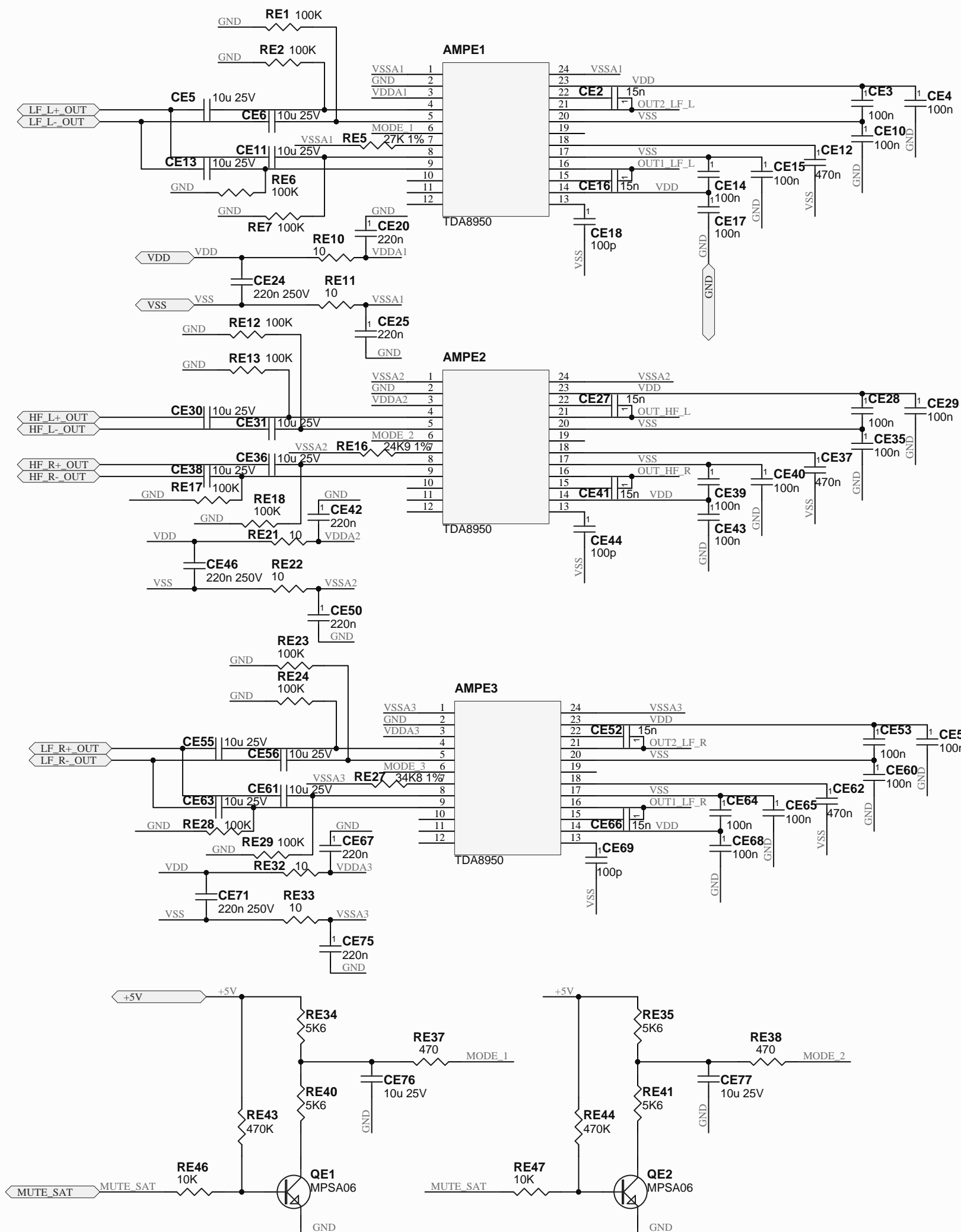
Montarbo 

Via G. Di Vittorio 13 - 40057
Cadriano di Granarolo Emilia (BO)
ITALY
www.montarbo.com
e-mail mail@montarbo.com
tel. +39 051 6047711
fax +39 051 765226

NM15 EMI 1114

Name Designer:
MACCHIAVELLI
Approved by: GAZZILLI
MODIFICATIONS RESERVE

Size A4	FCSM No.	DWG No.	Rev 0.10
Scale	DATE: 28.03.2014		Sheet



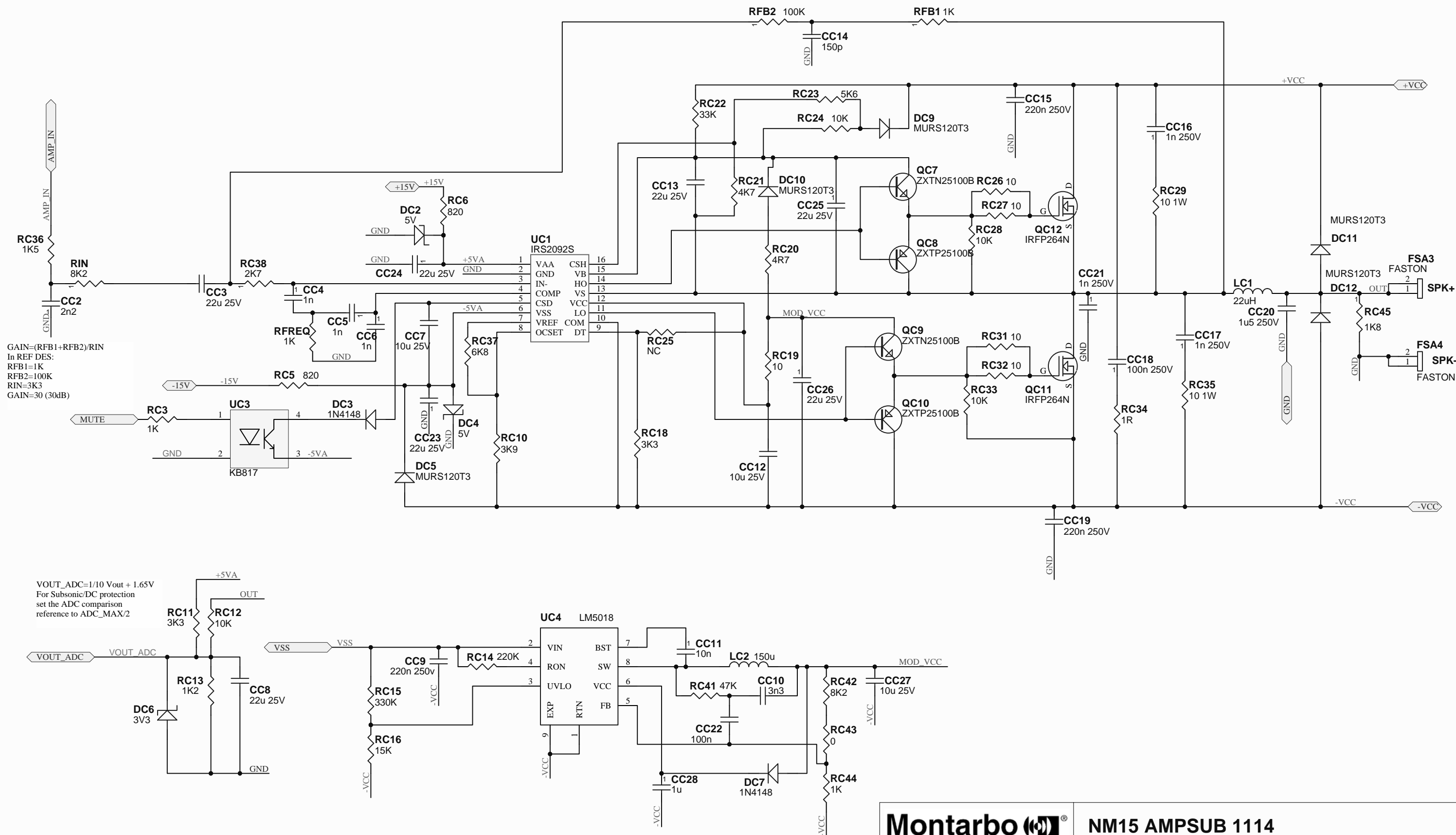
Montarbo 

Via G. Di Vittorio 13 - 40057
Cadriano di Granarolo Emilia (BO)
ITALY
www.montarbo.com
e-mail mail@montarbo.com
tel. +39 051 6047711
fax +39 051 765226

NM15 AMPSAT 1114

Name Designer:
MACCHIAVELLI
Approved by: **GAZZILLI**
MODIFICATIONS RESERVE

Size A3	FCSM No.	DWG No.	Rev 0.10
Scale	DATE: 28.03.2014		Sheet



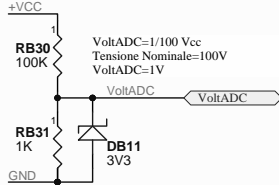
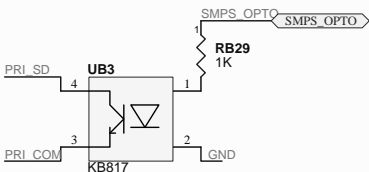
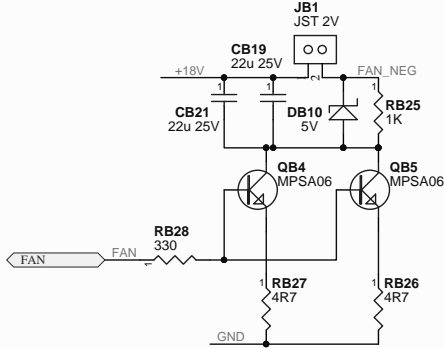
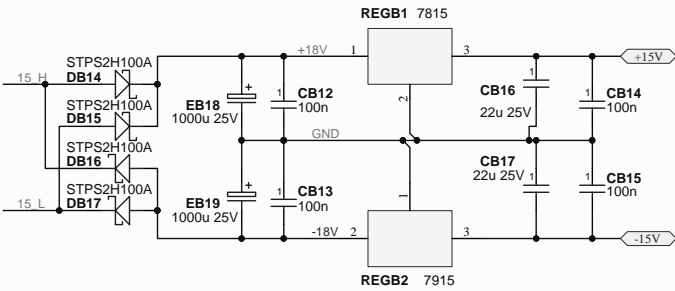
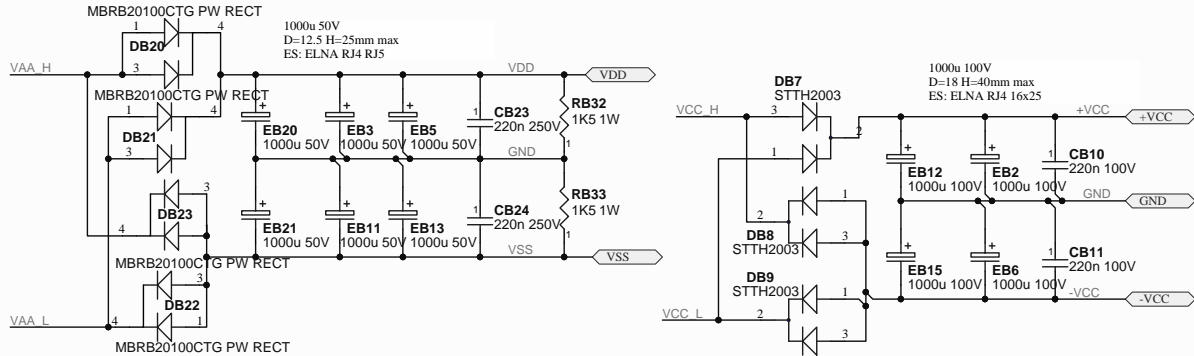
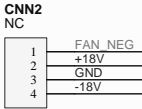
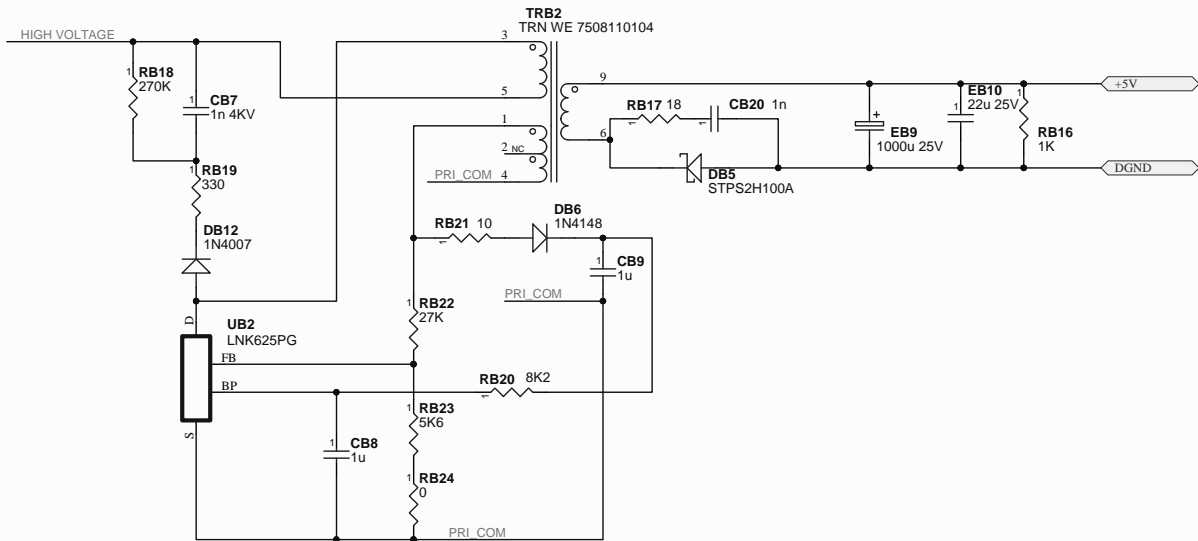
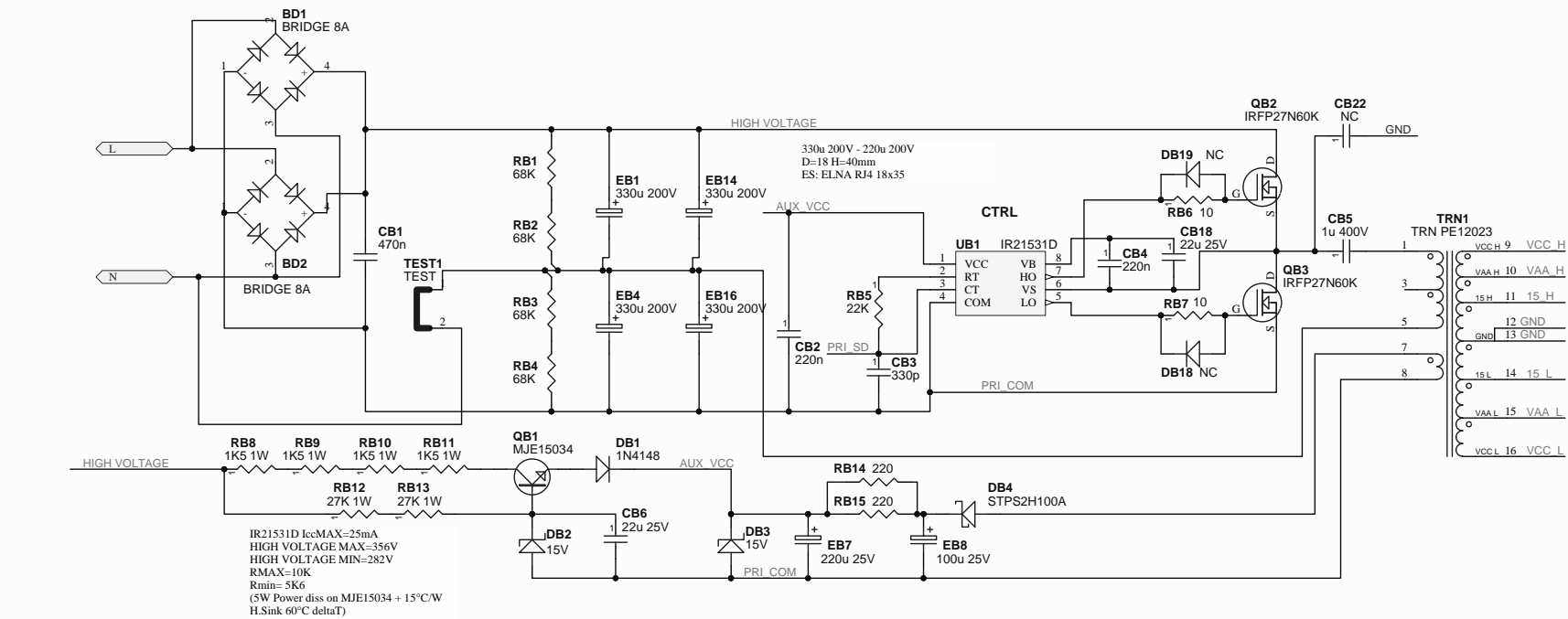
Montarbo 

Via G. Di Vittorio 13 - 40057
Cadriano di Granarolo Emilia (BO)
ITALY
www.montarbo.com
e-mail mail@montarbo.com
tel. +39 051 6047711
fax +39 051 765226

NM15 AMPSUB 1114

Name Designer:
MACCHIAVELLI
Approved by: **GAZZILLI**
MODIFICATIONS RESERVE

Size A3	FCSM No.	DWG No.	Rev 0.10
Scale	DATE: 28.03.2014		Sheet



Montarbo

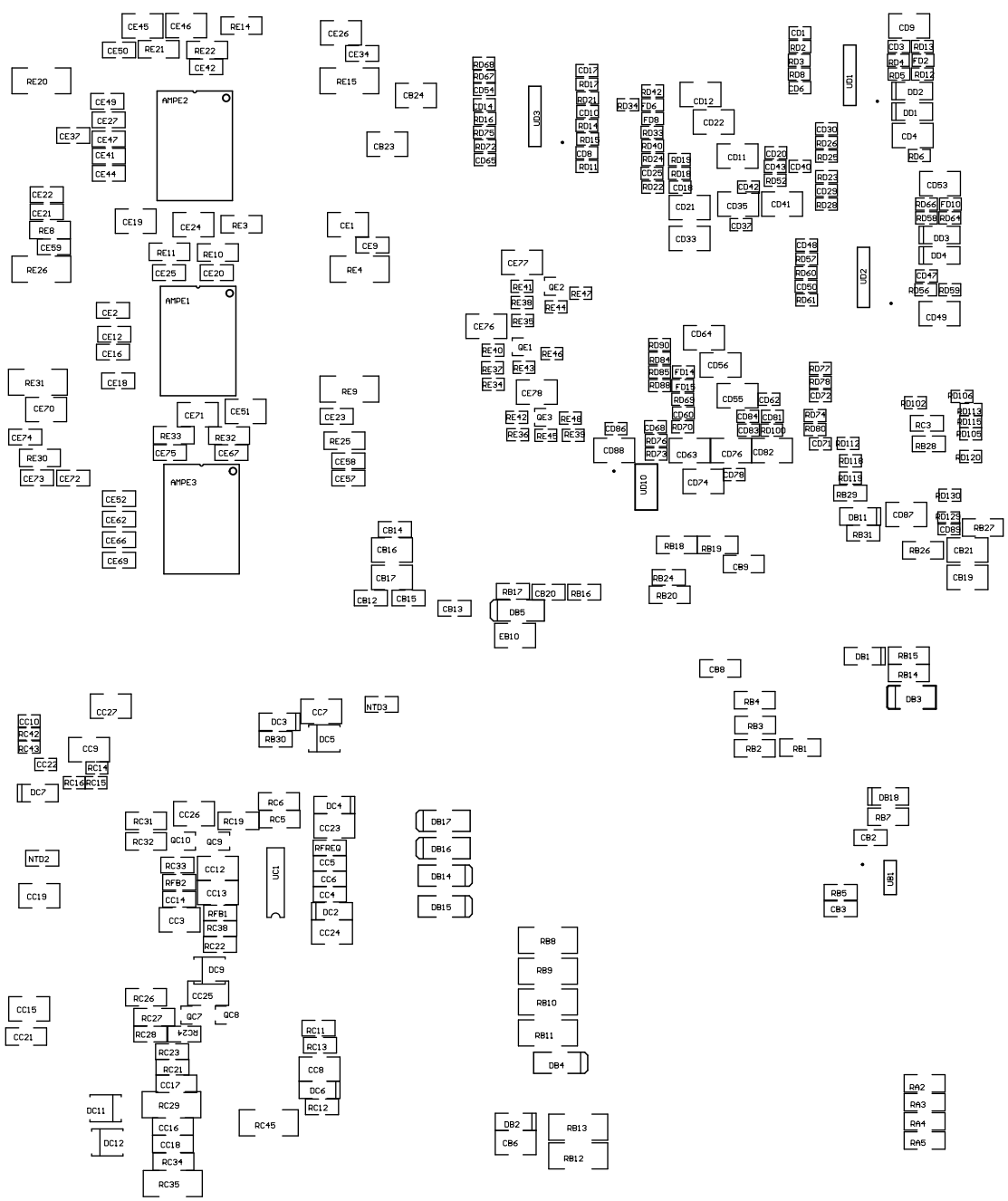
Via G. Di Vittorio 13 - 40057
Cadriano di Granarolo Emilia (BO)
ITALY
www.montarbo.com
e-mail: mail@montarbo.com
tel. +39 051 6047711
fax +39 051 765226

NM15 SMPS 1114

Name Designer:
MACCHIARELLI
Approved by: GAZZILLI
MODIFICATIONS RESERVE

Size A2	FCSM No.	DWG No.	Rev 0.10
------------	----------	---------	-------------

Scale DATE: 28.03.2014 Sheet



MODIFICATION RESERVEES - ANDERUNGEN VORBEHALTEN - CON RISERVA DI MODIFICHE - ALTERATIONS RESERVED - CON RESERVA DE MODIFICACION

ELETTRONICA **Montarbo**



s.r.l.

BOLOGNA
ITALY

date

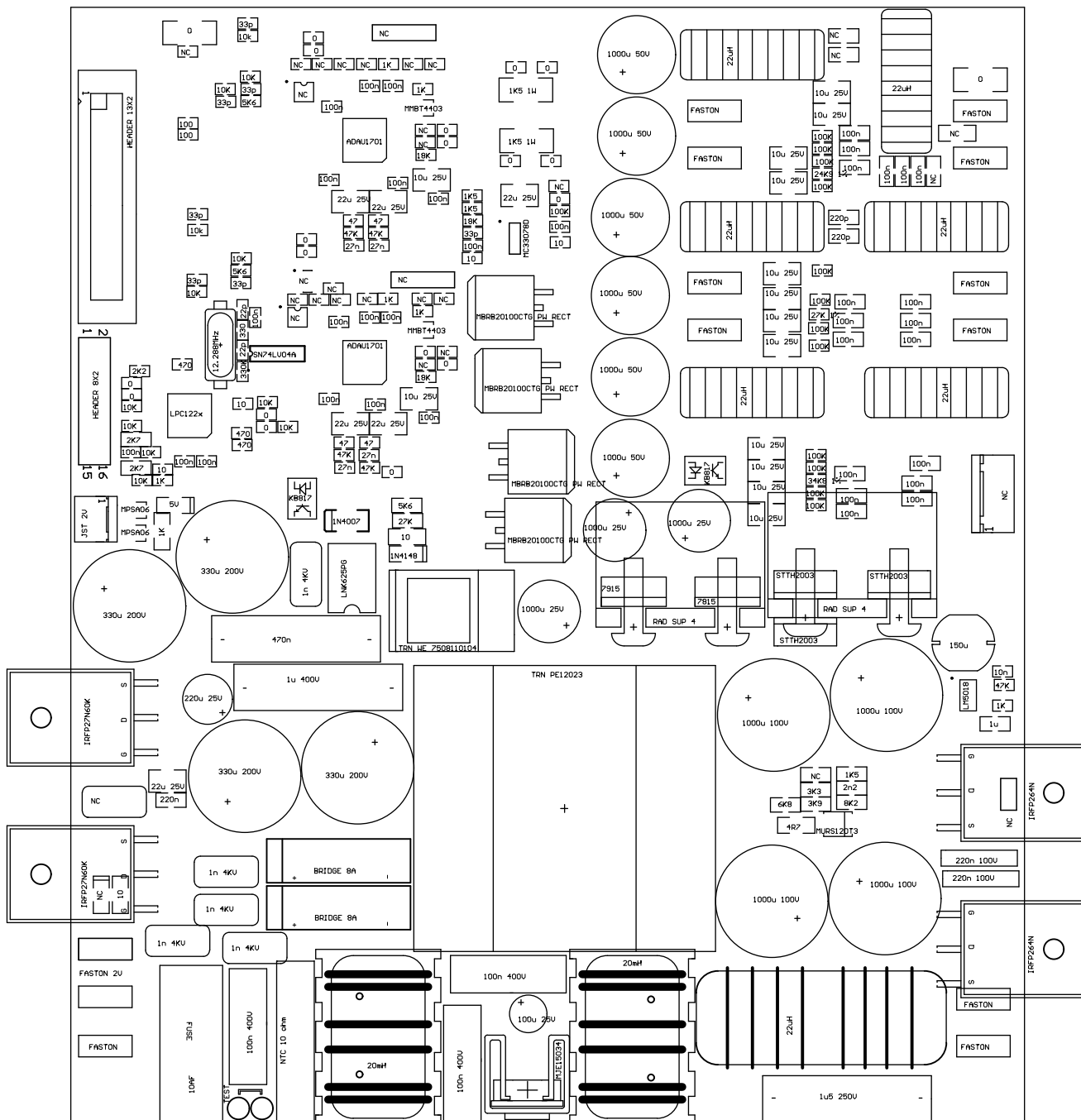
11.14

rev

code

NM15
D52N15R

Via G. Di Vittorio 13 - 40057 - Cadriano di Granarolo Emilia - Bologna tel. +39 0516047711 fax +39 051765226



MODIFICATION RESERVEES - ANDERUNGEN VORBEHALTEN - CON RISERVA DI MODIFICHE - ALTERATIONS RESERVED - CON RESERVA DE MODIFICACION

ELETTRONICA **Montarbo**



s.r.l.

BOLOGNA
ITALY

date

11.14

rev

code

NM15
D52N15R

Via G. Di Vittorio 13 - 40057 - Cadriano di Granarolo Emilia - Bologna tel. +39 0516047711 fax +39 051765226

Via G. Di Vittorio 13 - 40057 - Cadriano di Granarolo Emilia - Bologna tel. +39 0516047711 fax +39 051765226



The contents of this publication are Copyright by Elettronica Montarbo srl. **Data, text and pictorial material may not be reproduced in any manner without priorwritten permission of Elettronica Montarbo srl. All rights reserved.**

The information contained in this brochure has been carefully drawn up and checked, however no responsibilities will be assumed for any inexactitude. Technical data of products are subject to change without prior notice.

The trademarks Neutrik Speakon®, Combo® and Power Con® are property of Neutrik.

Tutti i diritti sono riservati e questo documento non può essere copiato, fotocopiato, riprodotto per intero o in parte senza previo consenso scritto di Elettronica Montarbo srl.

Le informazioni qui contenute sono state attentamente redatte e controllate, tuttavia non si assume alcuna responsabilità per eventuali inesattezze.

Caratteristiche, specifiche tecniche e immagini possono essere modificate senza preavviso.

Neutrik Combo®, Speakon e Power Con® sono marchi Neutrik.

ELETRONICA **Montarbo** srl

Sede Operativa
via G. di Vittorio 13
40057 Cadriano di Granarolo
(BOLOGNA) - ITALY
Tel. +39 051 6047711
Fax. +39 051 765226

Sede legale
via Falleroni 92 - P.O. Box 58
62019 Recanati (Macerata) Italy
www.montarbo.com
www.palcoplus.com

Montarbo
Made in Italy



Elettronica
Montarbo



Since 1959,
with You for Music.

Company under the control of EKO Music Group SpA