

Clock = 6.4 KHz @ step = 1/8 for Max Speed =120 rpm
 Clock = 12.8 KHz @ step = 1/16 for Max Speed =120 rpm
 Clock = 25.6 KHz @ step = 1/32 for Max Speed =120 rpm
 Clock = 51.2 KHz @ step = 1/64 for Max Speed =120 rpm

Title		
Stepper Driver Assembly		
Size	Document Number	Rev
A4	microstepping_011.dsn\assy	1.2
Date:	Wednesday, September 15, 2010	Sheet 1 of 1

MODE SET	
JP3	COM
OPEN	TTL
CLOSE	RS232

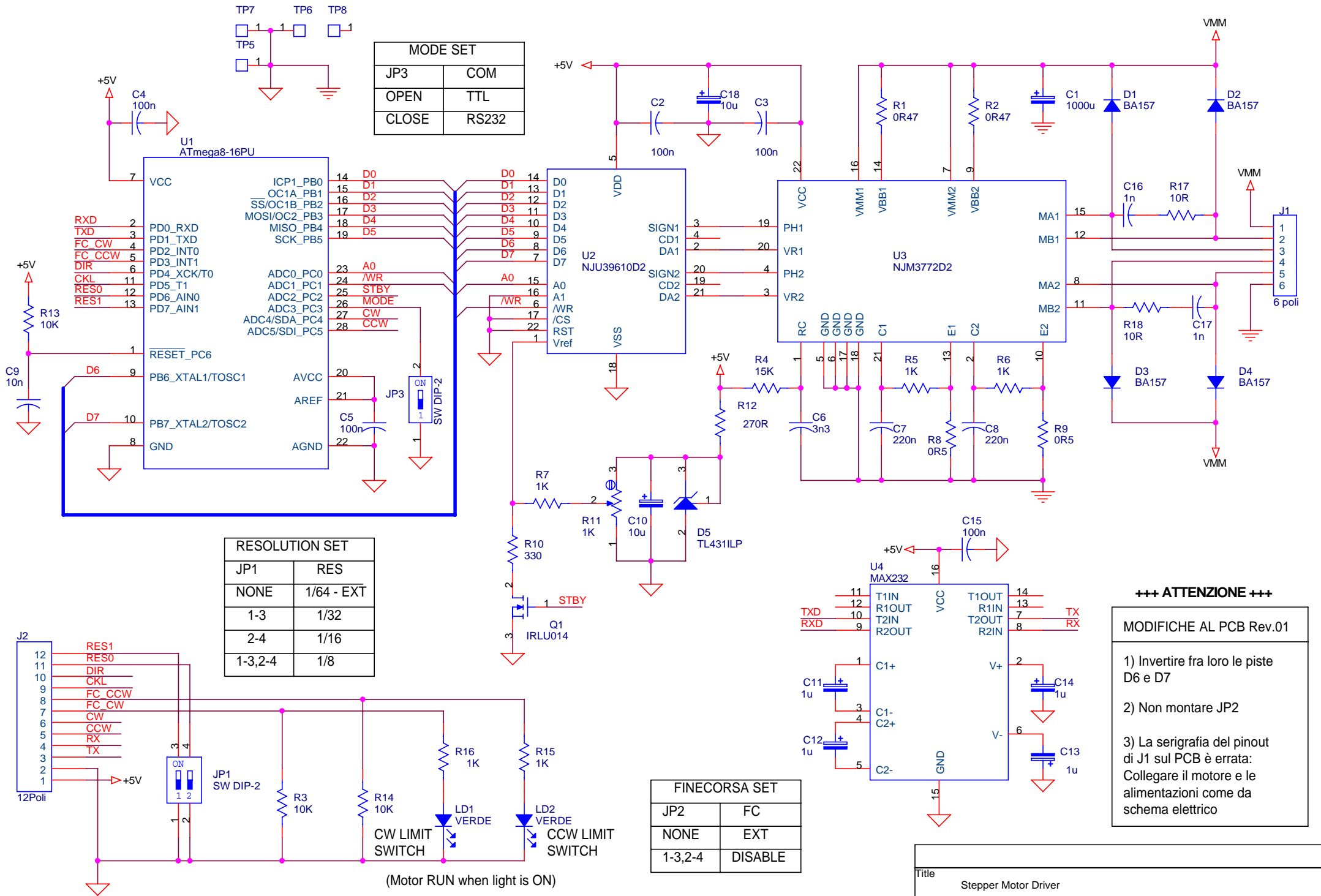
RESOLUTION SET	
JP1	RES
NONE	1/64 - EXT
1-3	1/32
2-4	1/16
1-3,2-4	1/8

FINECORSIA SET	
JP2	FC
NONE	EXT
1-3,2-4	DISABLE

+++ ATTENZIONE +++

MODIFICHE AL PCB Rev.01

- 1) Invertire fra loro le piste D6 e D7
- 2) Non montare JP2
- 3) La serigrafia del pinout di J1 sul PCB è errata: Collegare il motore e le alimentazioni come da schema elettrico



(Motor RUN when light is ON)

Title		
Stepper Motor Driver		
Size	Document Number	Rev
A4	microstepping_011.dsn/board	1,2
Date:	Monday, May 14, 2012	Sheet 1 of 1

Stepper Motor Driver Revised: Friday, November 27, 2009
microstepping_01.dsn\board Revision: 1,2

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Q.ty	Reference	Description	Value	Supplier Ref
1	1	C1	Cond. Elettr. 50V Vert.p5.08	1000u
2	5	C2,C3,C4,C5,C15	Cond. Cer. 50V p5.08	100n
3	1	C6	Cond. Cer. 50V p5.08	3n3
4	2	C7,C8	Cond. Cer. 50V p5.08	220n
5	1	C9	Cond. Cer. 50V p5.08	10n
6	2	C18,C10	Cond. Tantadio 25V p5.08	10u
7	4	C11,C12,C13,C14	Cond. Tantadio 25V p5.08	1u
8	2	C17,C16	Cond. Cer. 50V p5.08	1n
9	4	D1,D2,D3,D4	Diodo Silicio	BA157
10	1	D5	Voltage Reference	TL431ILP RS 810-289
11	2	JP1	Fila aghi DOPPIA p.5.08	2 poli
12	1	JP3	Fila aghi p.5.08	2 poli
13	1	J1	Morsettiera da PCB p3.81mm	6 poli RS 220-4377 (5 pz)
14	1	J2	Morsettiera da PCB p3.81mm	12Poli 2 x RS 220-4377 (5 pz)
15	2	LD1,LD2	Diodo LED 3mm	VERDE
16	1	Q1	Mosfet N	IRLU014NPBF Farnell 8660220
17	4	R1,R2,R8,R9	Resistenza 2 W 5%	0R47 Farnell 1219195 (5 pz)
18	3	R3,R13,R14	Resistenza 0.25W 1%	10K
19	1	R4	Resistenza 0.25W 1%	15K
20	5	R5,R6,R7,R15,R16	Resistenza 0.25W 1%	1K
21	1	R10	Resistenza 0.25W 1%	330R
22	1	R11	Trimmer Multigiri Vert.64W	1K
23	1	R12	Resistenza 0.25W 1%	270R
24	2	R17,R18	Resistenza 1 W 5%	10R
25	1	U1	Circuito Integrato DIL	ATmega8-16PU RS 628-1788
26	1	U2	Circuito Integrato DIL	NJU39610D2 RS 657-189
27	1	U3	Circuito Integrato DIL	NJM3772D2 RS 215-9491
28	1	U4	Circuito Integrato DIL	MAX232 RS 540-3268
29	1		Zoccolo per IC	28pin w.300mils
30	1		Zoccolo per IC	14pin w.300mils
31	2		Zoccolo per IC	22pin w.400mils