ILDA OUTPUT
CONN-D25F

INTERLOCK
SIL-100-02

ALIM LASER MODULE
+12V C4 100nF
+12V C3 100nF
+12V C5 100nF
+5V

R SIL-100-02
G SIL-100-02
B SIL-100-02

ALIMENTATION ATX
317750998
J1
+12V +5V +3.3V
J2 SIL-100-02
-12V

+3.3V 100nF C6
+5V 100nF C7
+12V 100nF C9 100nF C8
-12V

SENSOR V1 (OBSOLETE)
TSL257
SIL-100-03

DB2
DB9F
R5 10k
U2:A LM393
C2 1uF
SENSIBILITY 1k

ADAPTATION VOLTAGE MIDI
TX
U3:A 74LS04 VCC=+5V
R13 4.7k
Q4 BC547
R15 220
MIDI OUT

CONVERT 3.3V FOR 5V
+5V
LASER R
R9 10k
Q1 BC547
R14 100k
R17 10k
R+ OUT

CONVERT 3.3V FOR 5V
+5V
LASER G
R19 10k
Q3 BC547
R22 100k
R20 10k
G+ OUT

CONVERT 3.3V FOR 5V
+5V
LASER B
R18 10k
Q2 BC547
R21 100k
R16 10k
B+ OUT

LASER B SIL-100-02 → LASER B
LASER G SIL-100-02 → LASER G
LASER R SIL-100-02 → LASER R

SELECT LOGIC LEVEL
SIL-100-03
+3.3V 5V +5V

MJ1 MIDI OUT
MIDI OUT
R8 220
+5V

SELECT MIDI
SIL-100-03
5V

SENSOR DB9
DB9F
5V

R23 4.7K
R24 4.7K

MCP4725 SIL-100-06
J4 SIL-100-04
5V 5V

CALIBRAGE TENSION GALVO
SIL-100-03

OUT GALVO
SIL-100-03
X- X+

U4 ARDUINO NANO R3
TX
1 D0/TX	VIN 30
2 D1/RX	GND_2 29
3 RESET_1	RESET_2 28
4 GND_1	5V 27
5 D2	A7 26
6 D3	A6 25
7 D4	A5 24
8 D5	A4 23
9 D6	A3 22
10 D7	A2 21
11 D8	A1 20
12 D9	A0 19
13 D10	AREF 18
14 D11	3V3 17
15 D12	D13 16

LASER R
LASER G
LASER B
P.VAR
P.PGM-
P.PGM+
P.AUX
P.O/C

+12V -12V

R1 47K
R2 10k
R3 10k
OFFSET 10k
GAIN 47K
U1:A TL082
U1:B TL082
R4 10k
C1 100nF
X- X+

PEDALE VARIATION
SIL-100-02
5V P.VAR R7 10k

PEDALE OPEN/CLOSE
SIL-100-02
5V P.O/C R6 10k

PEDALE PGM --
SIL-100-02
5V P.PGM- R10 10k

PEDALE PGM ++
SIL-100-02
5V P.PGM+ R11 10k

PEDALE AUX
SIL-100-02
5V P.AUX R12 10k

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BY: Marco IDC / Frederic Wauters REV4	