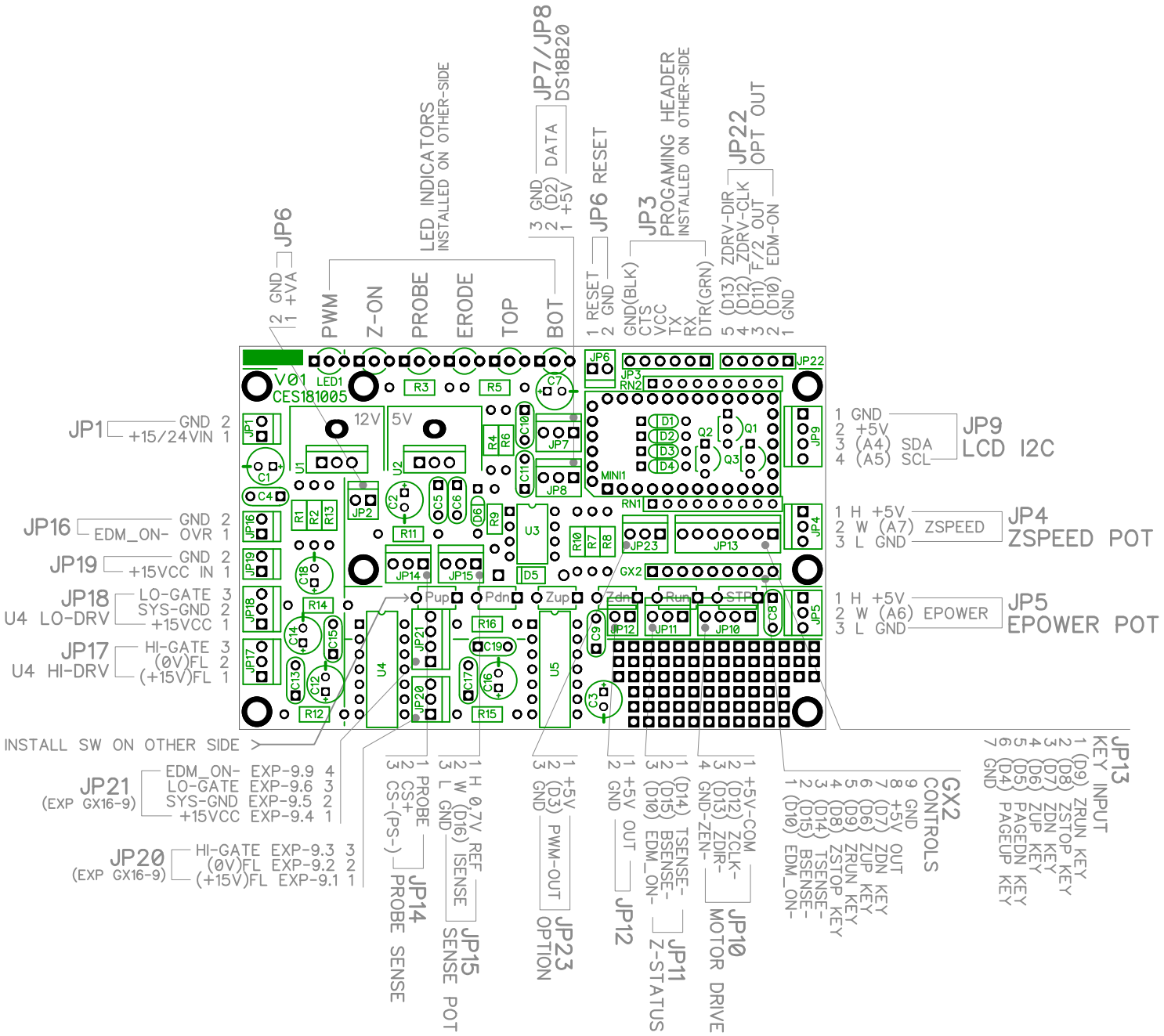
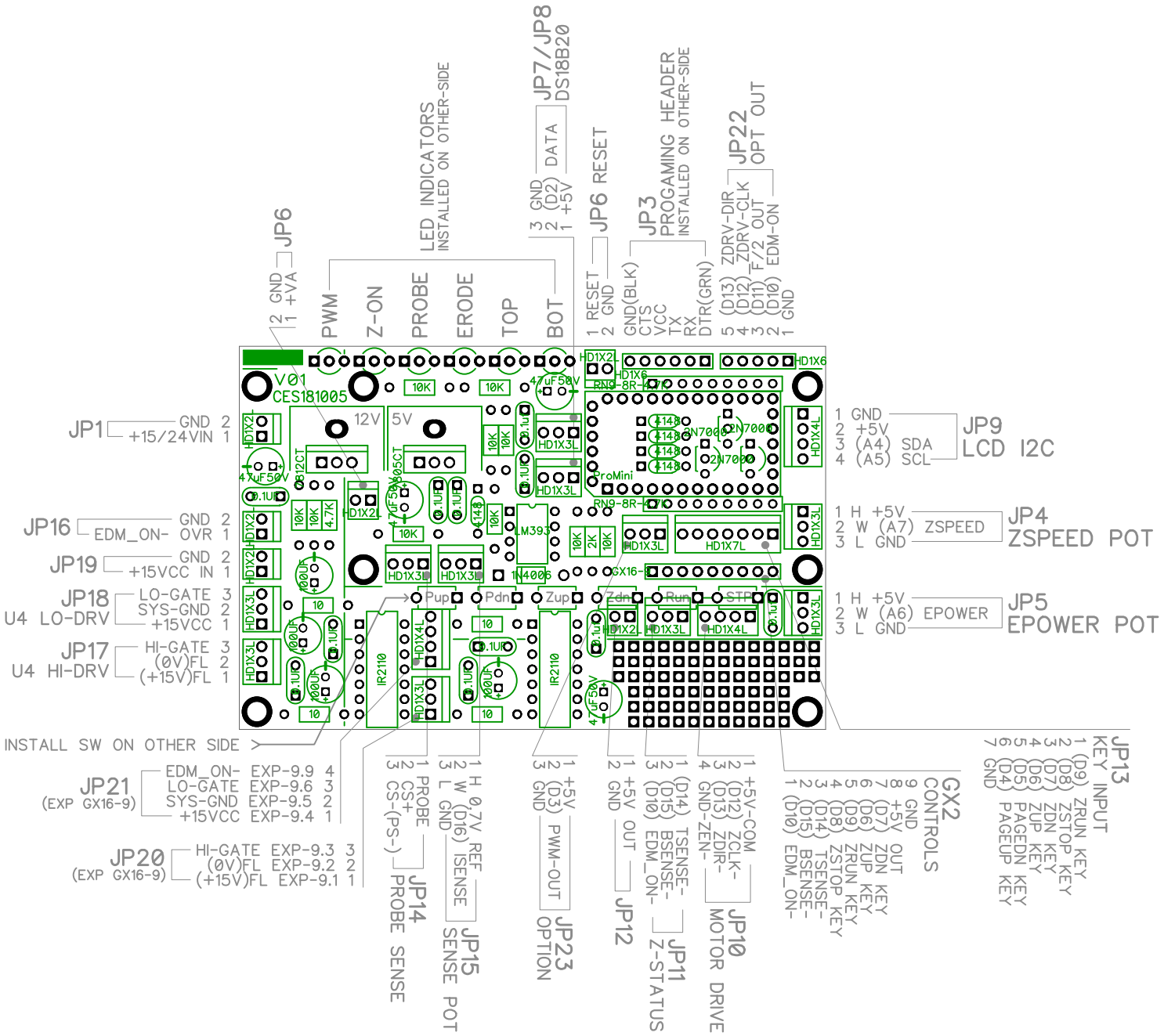


CES181005_v01 PCB ASSEMBLY
EDR5 CPU BOARD W/ 2004A LCD DISPLAY


JP6
2 GND
1 +VA
PWM
Z-ON
PROBE
ERODE
TOP
BOT
LED INDICATORS
INSTALLED ON OTHER-SIDE
JP7/JP8
DS18B20
3 GND
2 (D2) DATA
1 +5V
JP6 RESET
1 RESET
2 GND
JP3
PROGAMING HEADER
INSTALLED ON OTHER-SIDE
GND(BLK)
CTS
VCC
TX
RX
DTR(GRN)
JP22
OPT OUT
5 (D13) ZDRV-DIR
4 (D12) ZDRV-CLK
3 (D11) F/2 OUT
2 (D10) EDM-ON
1 GND
V01
CES181005
12V
5V
JP1
GND 2
+15/24VIN 1
JP16
GND 2
EDM_ON- OVR 1
JP19
GND 2
+15VCC IN 1
JP18
U4 LO-DRV
LO-GATE 3
SYS-GND 2
+15VCC 1
JP17
U4 HI-DRV
HI-GATE 3
(0V)FL 2
(+15V)FL 1
INSTALL SW ON OTHER SIDE
JP21
(EXP GX16-9)
EDM_ON- EXP-9.9 4
LO-GATE EXP-9.6 3
SYS-GND EXP-9.5 2
+15VCC EXP-9.4 1
JP20
(EXP GX16-9)
HI-GATE EXP-9.3 3
(0V)FL EXP-9.2 2
(+15V)FL EXP-9.1 1
1 GND
2 +5V
3 (A4) SDA
4 (A5) SCL
JP9
LCD I2C
1 H +5V
2 W (A7) ZSPEED
3 L GND
JP4
ZSPEED POT
1 H +5V
2 W (A6) EPOWER
3 L GND
JP5
EPOWER POT
JP13
KEY INPUT
1 (D9) ZRUN KEY
2 (D8) ZSTOP KEY
3 (D7) ZDN KEY
4 (D6) ZUP KEY
5 (D5) PAGEDN KEY
6 (D4) PAGEUP KEY
7 GND
GX2
CONTROLS
9 GND
8 +5V
7 (D7) ZDN KEY OUT
6 (D6) ZUP KEY
5 (D9) ZRUN KEY
4 (D8) ZSTOP KEY
3 (D14) TSENSE-
2 (D15) BSENSE-
1 (D10) EDM_ON-
JP10
MOTOR DRIVE
1 +5V-COM
2 (D12) ZCLK-
3 (D13) ZDIR-
4 GND-ZEN-
JP11
Z-STATUS
1 (D14) TSENSE-
2 (D15) BSENSE-
3 (D10) EDM_ON-
JP12
1 +5V OUT
2 GND
JP23
OPTION
1 +5V
2 (D3) PWM-OUT
3 GND
JP15
SENSE POT
1 H 0.7V REF
2 W (D16) ISENSE
3 L GND
JP14
PROBE SENSE
1 PROBE
2 CS+
3 CS-(PS-)
Pup
Pdn
Zup
Zdn
Run
STP
IR2110
IR2110
LM393
1N4006
ProMini
2N7000
2N7000
2N7000
RN9-8R-10K
RN9-8R-10K
HD1X6
HD1X7L
HD1X3L
HD1X4L
HD1X2L
HD1X4L
HD1X3L
HD1X2L
HD1X3L
HD1X2L
HD1X3L
HD1X2