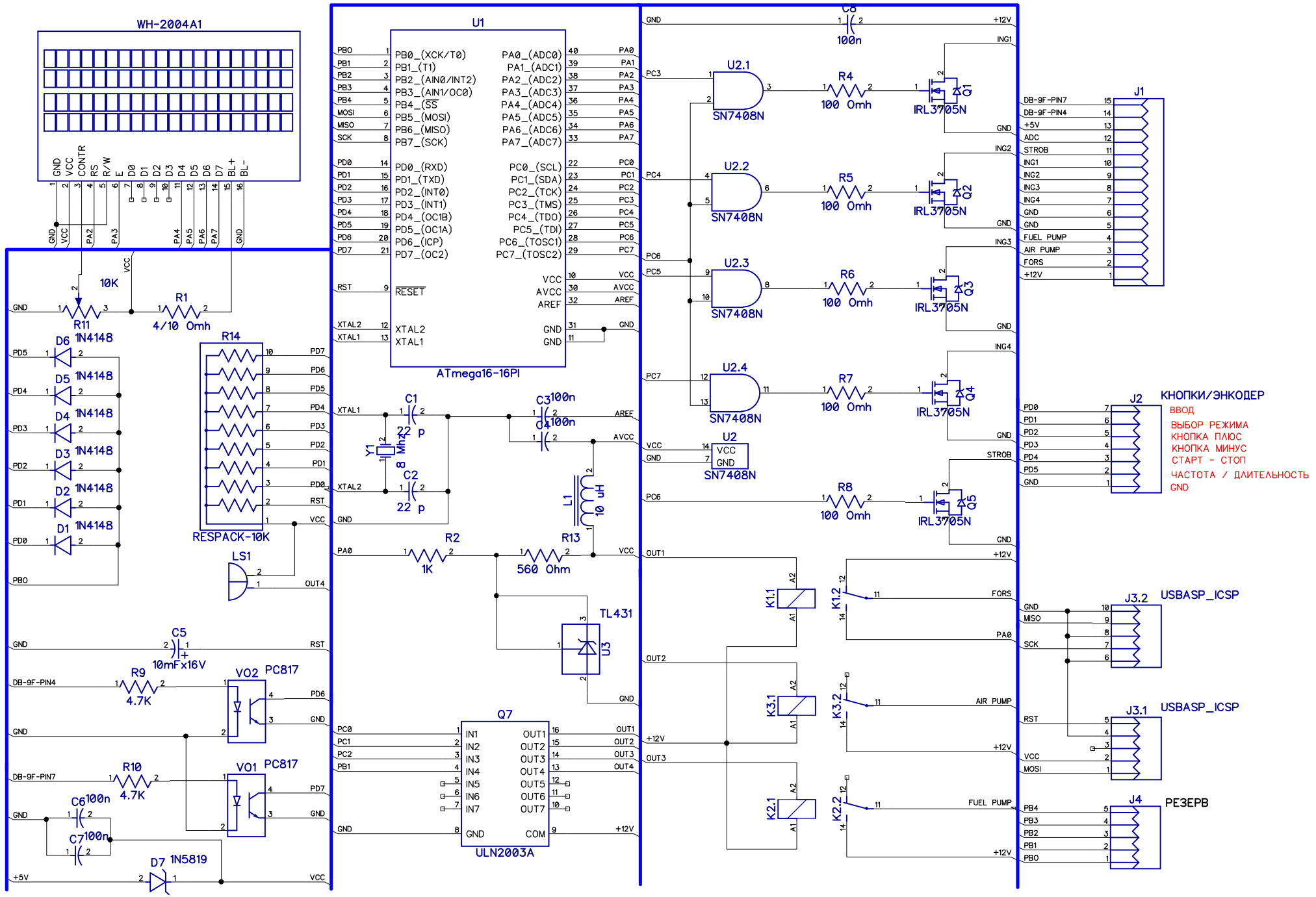
WH-2004A1
GND VCC CONTR RS R/W E D0 D1 D2 D3 D4 D5 D6 D7 BL+ BL-
U1
ATmega16-16PI
PB0_(XCK/T0)
PB1_(T1)
PB2_(AIN0/INT2)
PB3_(AIN1/OC0)
PB4_(SS)
PB5_(MOSI)
PB6_(MISO)
PB7_(SCK)
PD0_(RXD)
PD1_(TXD)
PD2_(INT0)
PD3_(INT1)
PD4_(OC1B)
PD5_(OC1A)
PD6_(ICP)
PD7_(OC2)
RESET
XTAL2
XTAL1
PA0_(ADC0)
PA1_(ADC1)
PA2_(ADC2)
PA3_(ADC3)
PA4_(ADC4)
PA5_(ADC5)
PA6_(ADC6)
PA7_(ADC7)
PC0_(SCL)
PC1_(SDA)
PC2_(TCK)
PC3_(TMS)
PC4_(TDO)
PC5_(TDI)
PC6_(TOSC1)
PC7_(TOSC2)
VCC
AVCC
AREF
GND
10K
R11
R1
4/10 Omh
D6 1N4148
D5 1N4148
D4 1N4148
D3 1N4148
D2 1N4148
D1 1N4148
R14
RESPACK-10K
LS1
C1
22 p
C2
22 p
Y1
8 Mhz
C3 100n
C4 100n
L1
10 uH
R2
1K
R13
560 Ohm
TL431
U3
C5
10mFx16V
R9
4.7K
VO2 PC817
R10
4.7K
VO1 PC817
C6 100n
C7 100n
D7 1N5819
Q7
ULN2003A
IN1 IN2 IN3 IN4 IN5 IN6 IN7
OUT1 OUT2 OUT3 OUT4 OUT5 OUT6 OUT7
COM
U2.1
U2.2
U2.3
U2.4
SN7408N
U2
R4
R5
R6
R7
R8
100 Omh
IRL3705N
Q1
Q2
Q3
Q4
Q5
C8
100n
+12V
ING1
ING2
ING3
ING4
STROB
K1.1
K1.2
K3.1
K3.2
K2.1
K2.2
FORS
AIR PUMP
FUEL PUMP
J1
DB-9F-PIN7
DB-9F-PIN4
+5V
ADC
STROB
ING1
ING2
ING3
ING4
GND
FUEL PUMP
AIR PUMP
FORS
+12V
J2
КНОПКИ/ЭНКОДЕР
ВВОД
ВЫБОР РЕЖИМА
КНОПКА ПЛЮС
КНОПКА МИНУС
СТАРТ - СТОП
ЧАСТОТА / ДЛИТЕЛЬНОСТЬ
GND
J3.2
USBASP_ICSP
J3.1
USBASP_ICSP
J4
РЕЗЕРВ