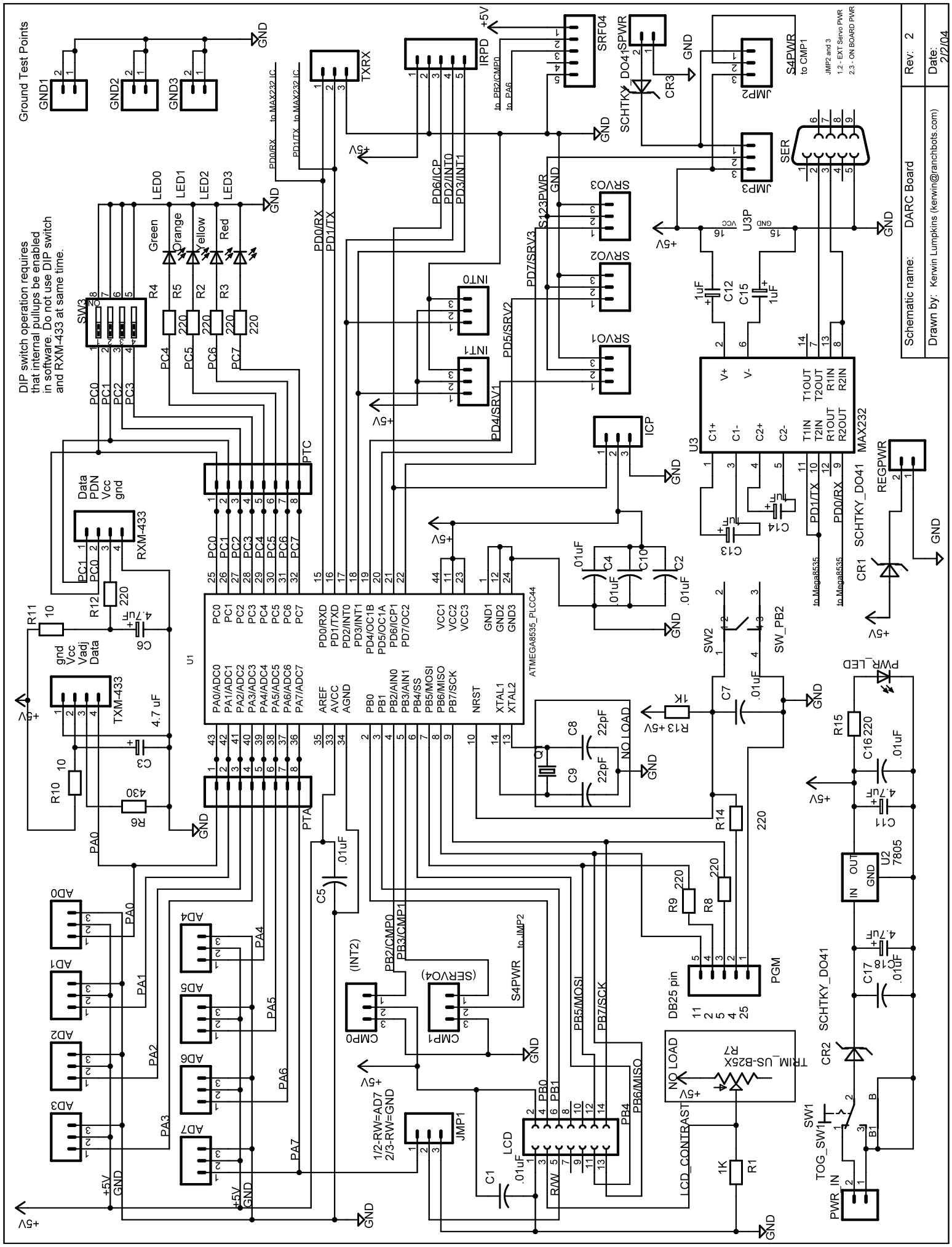
Ground Test Points
GND1
GND2
GND3
DIP switch operation requires that internal pullups be enabled in software. Do not use DIP switch and RXM-433 at same time.
LED0
LED1
LED2
LED3
Green
Orange
Yellow
Red
SW3
R4
R5
R2
R3
220
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PTC
Data
PDN
Vcc
gnd
RXM-433
R12
R11
10
C6
4.7uF
gnd
Vcc
Vadj
Data
TXM-433
4.7 uF
C3
R10
R6
430
PTA
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
AD0
AD1
AD2
AD3
AD4
AD5
AD6
AD7
+5V
GND
U1
ATMEGA8535_PLCC44
PC0/RXD
PD1/TXD
PD2/INT0
PD3/INT1
PD4/OC1B
PD5/OC1A
PD6/ICP1
PD7/OC2
VCC1
VCC2
VCC3
GND1
GND2
GND3
AREF
AVCC
AGND
PB0
PB1
PB2/AIN0
PB3/AIN1
PB4/SS
PB5/MOSI
PB6/MISO
PB7/SCK
NRST
XTAL1
XTAL2
C5
.01uF
C8
C9
22pF
Q
NO LOAD
C4
C10
C2
.01uF
R13
1K
SW2
SW_PB2
C7
PWR_LED
R15
220
C16
C11
4.7uF
U2
7805
IN
OUT
GND
R14
R9
R8
DB25 pin
PGM
C17
C18
SCHTKY_DO41
CR2
TRIM_US-B25X
R7
LCD_CONTRAST
R1
SW1
TOG_SW1
PWR_IN
LCD
R/W
C1
JMP1
1/2-RW=AD7
2/3-RW=GND
CMP0
CMP1
(INT2)
(SERVO4)
PB2/CMP0
PB3/CMP1
S4PWR
to JMP2
PB5/MOSI
PB7/SCK
PB6/MISO
PB4
PB0
PB1
TXRX
PD0/RX
PD1/TX
to MAX232 IC
IRPD
PD6/ICP
PD2/INT0
PD3/INT1
INT0
INT1
PD4/SRV1
PD5/SRV2
PD7/SRV3
SRV01
SRV02
SRV03
S123PWR
ICP
SRF04
to PB2/CMP0
to PA6
SPWR
DO41
SCHTKY
CR3
JMP2
JMP3
S4PWR
to CMP1
SER
JMP2 and 3
1.2 - EXT Servo PWR
2.3 - ON BOARD PWR
U3P
VCC
GND
16
15
C12
C15
1uF
U3
MAX232
V+
V-
C1+
C1-
C2+
C2-
T1IN
T2IN
R1OUT
R2OUT
T1OUT
T2OUT
R1IN
R2IN
C13
C14
to Mega8535
REGPWR
CR1
Rev: 2
Date: 2/2/04
Schematic name: DARC Board
Drawn by: Kerwin Lumpkins (kerwin@ranchbots.com)