

# JOE STUFF - ELECTROMECHANICAL INTERFACES 7/07

## ~~BRANNAUTSIS~~ (CONDUCTIVITY SENSOR)

### - CO2 SENSOR INTERFACES

- RELAY CONTROL BOARD

- LIGHTS/SOUND/BRAINWAVE → test circuit?

- INPUT BOARD

- TOOTHBRUSH SENSOR - IR MAKE/BREAK

- D-RING POSITION SWITCH

~~ENTER~~ - ENABLER

HALF DC, HALF AC  
32-CH. DPDT SA + diodes  
MITCH ALTMAN?

X - SHAVING CREAM AUTO-DISPENSER

X - COFFEE MACHINE INTERFACE/ACT?

X - WATERPROOF CASE FOR CIRCUITRY?

X - TOOTH PASTE DISPENSER

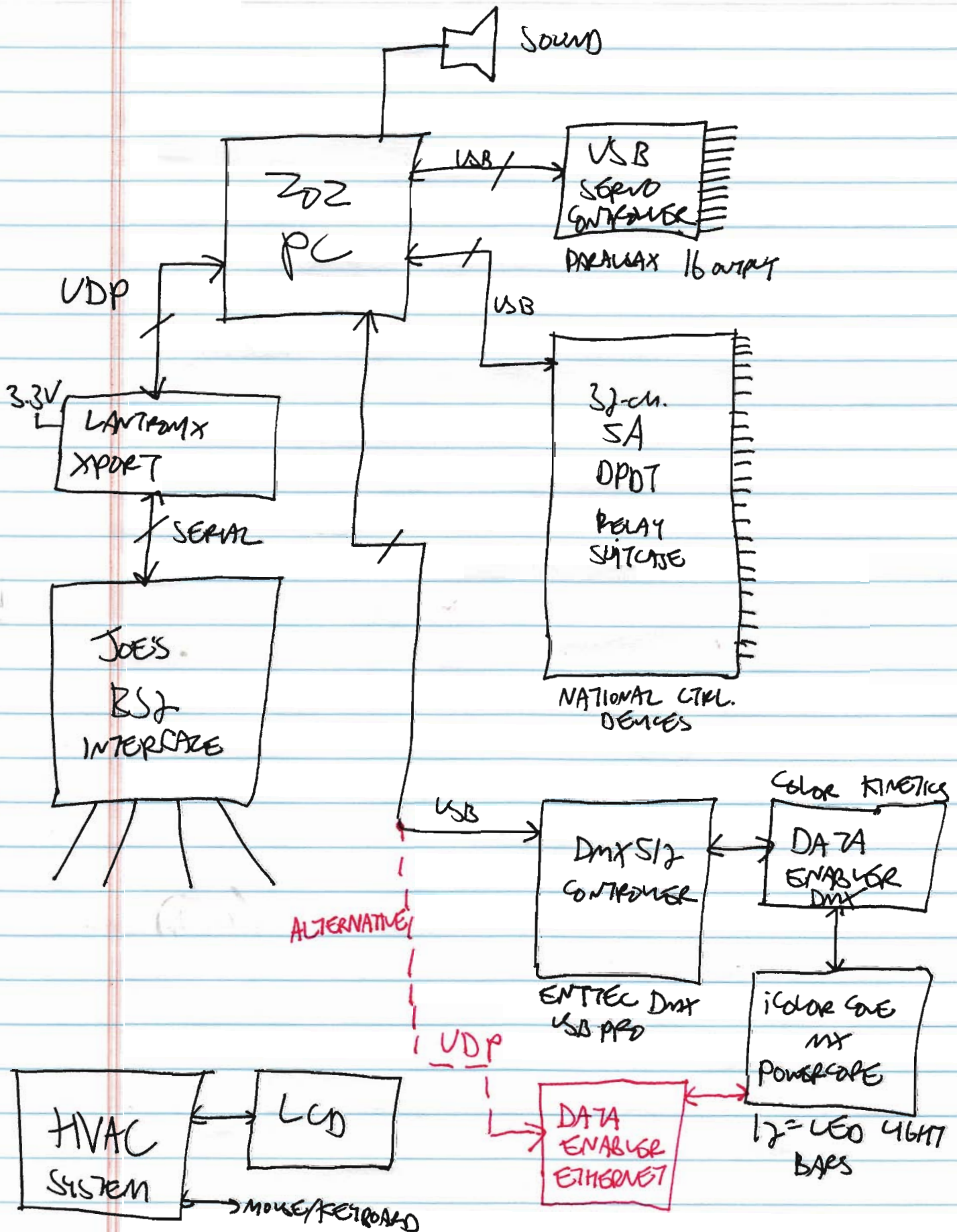
- ALARM CLOCK INTERFACE → HVAC

## LIGHTS

✓ - DMX512 CONTROLLER

✓ - COLOR KINETICS LIGHTS/DATA ENABLER

# GET UP & GO SYSTEM-LEVEL DIAGRAM 8/7/07

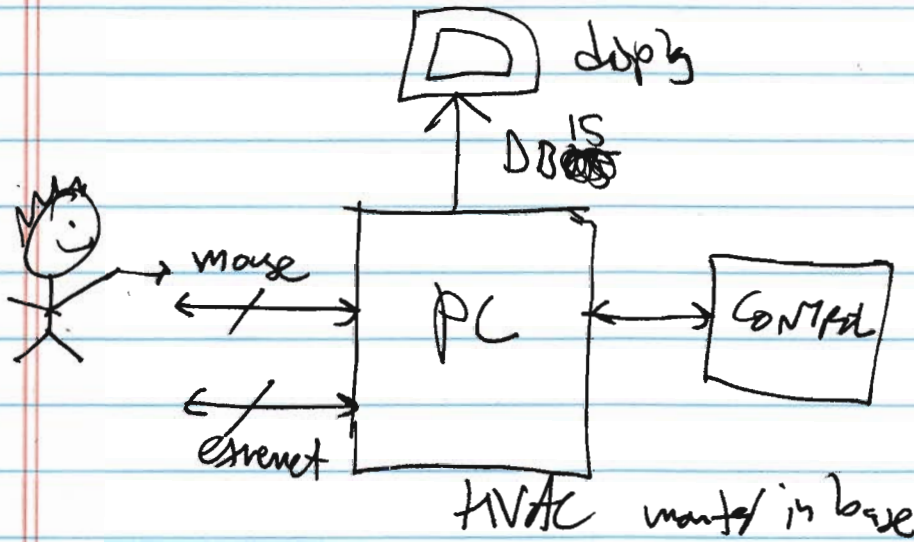


# Get up & Go HVAC w/ JE 8/8/07

✓\* - mouse trackpad/trackball → PS/2

- web-based interface - locally or remotely

↑  
static IP



✓\* - long DB25 cable

~15ft. maximum



8.9.07

Altium

ENTREK DMY USB PRO to  
COLOR KINETICS DATA ENABLER

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DMY XLR 5-pin to CAT 5

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1 SIGNAL GROUND/  
SHIELD black 3 white/green

2 DATA<sub>-</sub> red 1 white/orange

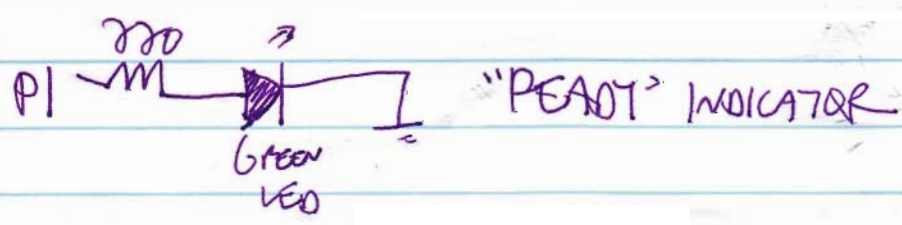
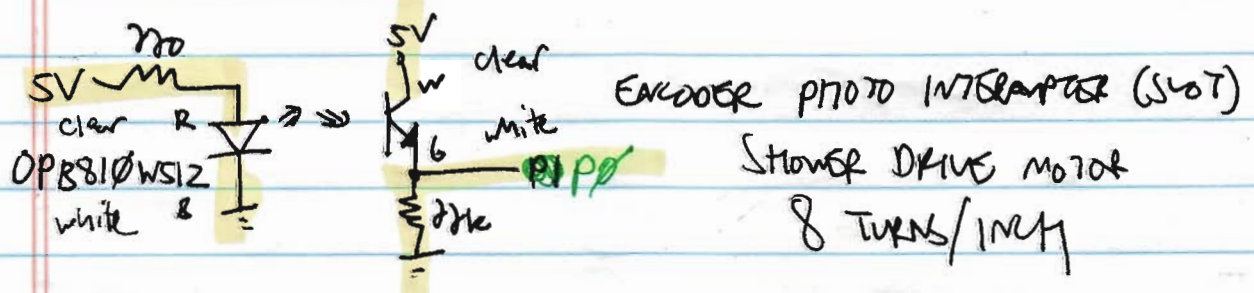
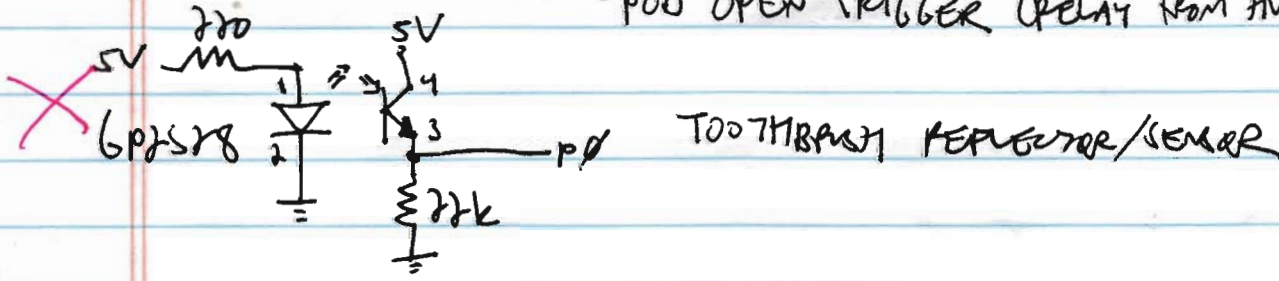
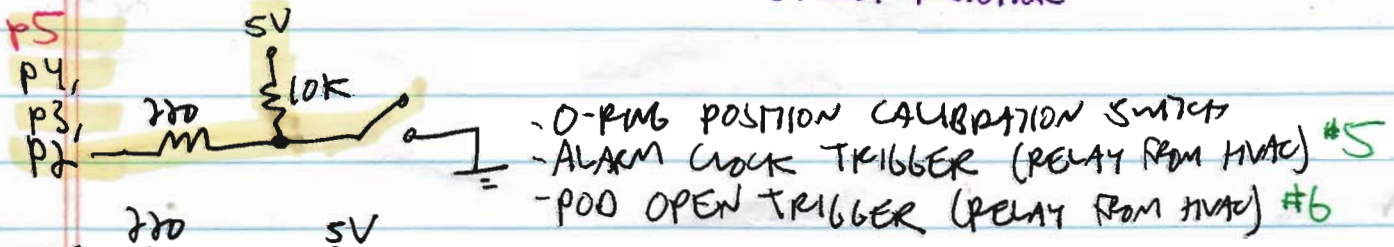
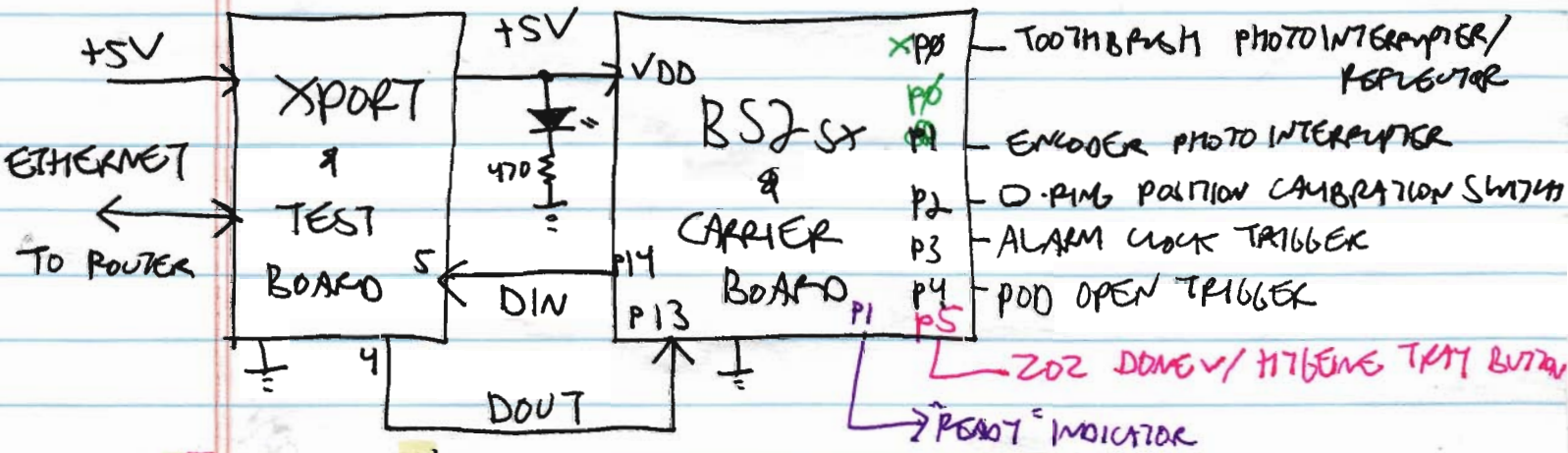
3 DATA<sub>+</sub> white 2 orange

4 N/C

5 N/C

GET UP & GOoooooo!!!  
SENSOR INTERFACE BOARD 8/10/07

192.168.1.69:31337



# GET UP & GO! RELAY BOARD

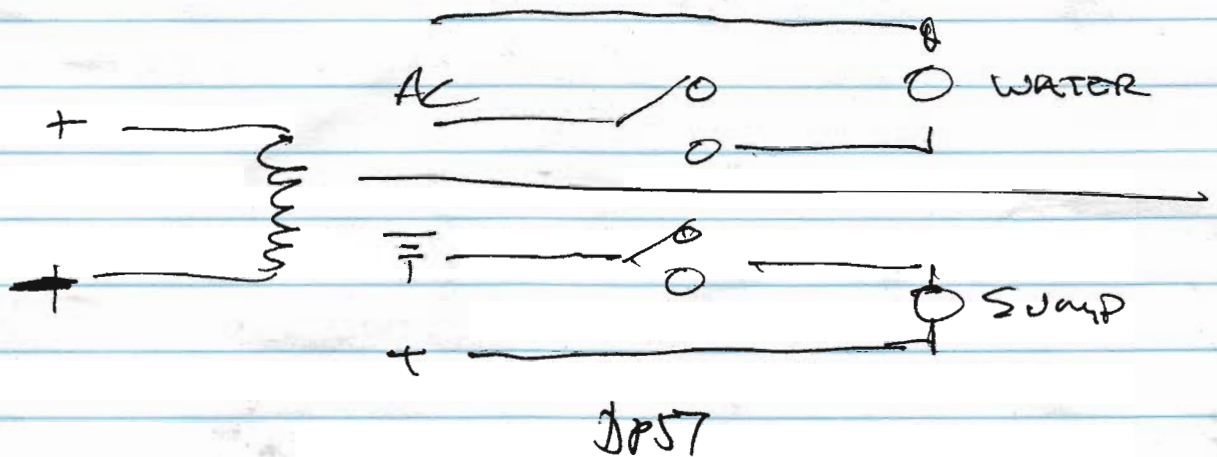
8/15/07

- POD LIFT UP
- POD LIFT DOWN
- SHOWER HEAD UP - 12VDC
- SHOWER HEAD DOWN - 12VDC
- SOAP DISPENSE - ~~12VDC~~ solenoid
- CLOTHING REMOVAL UP - 12VDC
- CLOTHING REMOVAL DOWN - 12VDC
- WATER ON/OFF
- AIR ON/OFF

} reverse polarity

- DOOR ~~OPEN/CLOSE~~ POTTS OPEN/CLOSE
- DRAIN/pump ~~(solenoid)~~   
 Sump
- DOOR MOVE OUT/IN

- START COFFEE MAKER (802.)

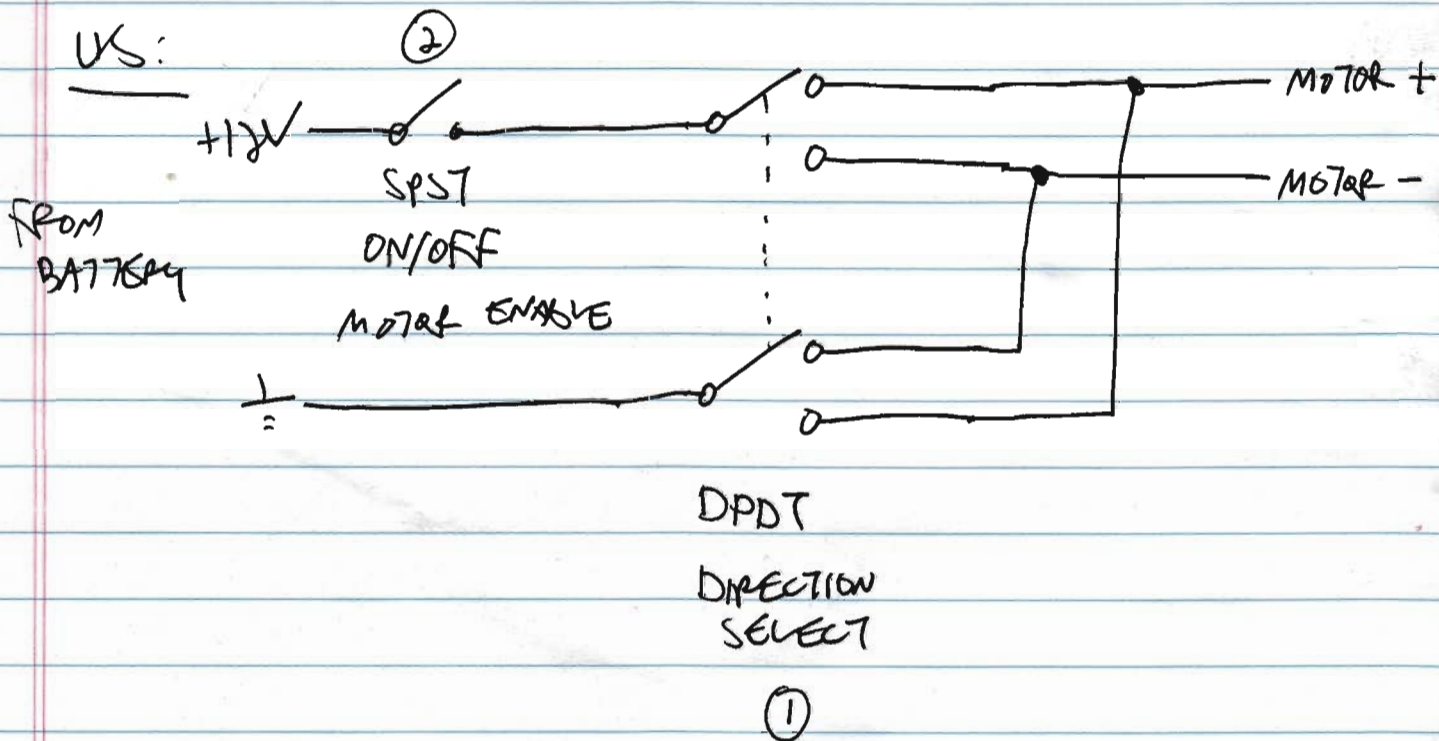
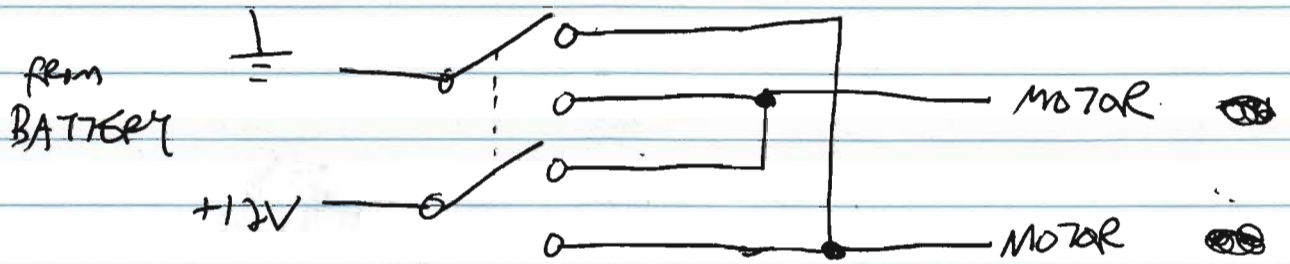




# SHOWER DRIVE MOTOR

BI-DIRECTIONAL 20AMP

KEY: ON-OFF-ON 20A



JOE'S

POWER

110VAC

MAC MINI	2A
INPUT DIMMER	0.4A
WIRELESS AP	0.1A
DATA ENABLER	0.1A
LIGHTS	0.11A each = 0.33A
RELAY BOARD	0.4A
LCD	1.2A
PROJECTOR	2A
	<hr/>
	6.53A



# RELAY INTERFACE BOARD

8/23/07 10pm

## BANK #2

## HEAVY-DUTY RELAYS (12V)

RELAY

FUNCTION

DEFAULT/OFF

TERMINAL

0 2 SPDT

SUMP

TURN ON/OFF OFF DURING WATER

1 3 SPDT

ROLLER ON/OFF

OFF

2 4 DPDT

ROLLER DIRECTION

UP (Top)

3 5 SPDT

GANTRY/SHOWER ON/OFF

OFF

4 6 DPDT

GANTRY/SHOWER DIRECTION

DOWN

5

PROJECTOR ON/OFF

OFF

DIRECTION FIRST,  
THEN POWER

## BANK #4

RELAY

PNEUMATICS  
TERMINAL

FUNCTION

OFF/  
DEFAULT

0

1

POD LIFT UP/DOWN

DOWN

1

2

DOOR W/OUT

OUT

2

3

DOOR ROTATE OPEN/CLOSE

OPEN

3

4

AIR DRYER

OFF

4

5

SOAP

OFF

## NOTES:

To OPEN POD: DOOR OUT → DOOR ROTATE OPEN

To CLOSE POD: DOOR ROTATE CLOSE → DOOR IN

DURING DRY CYCLE, PUSH DOOR OUT FOR VENTILATION

2 + 7 = FIRE

NEUTRAL TO #3 7

NOT TO #2

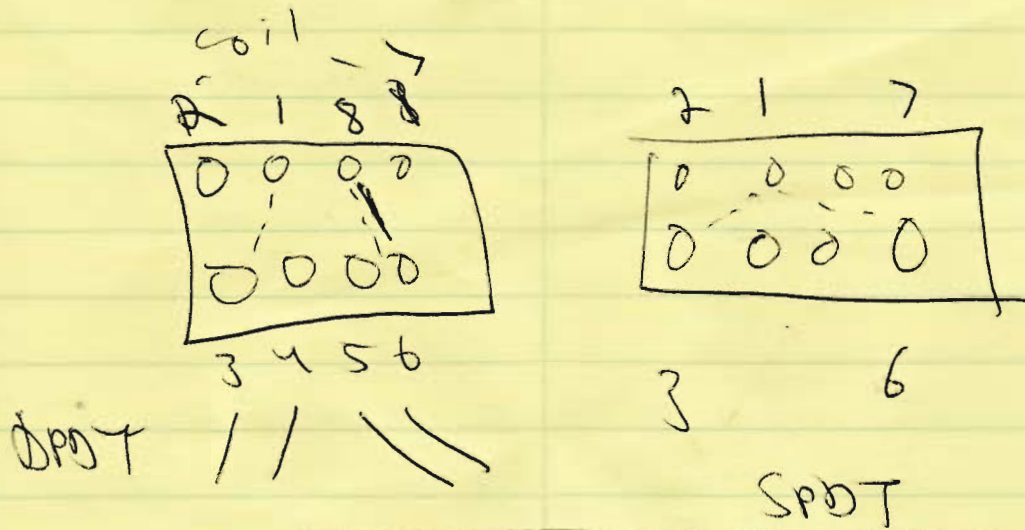
10 A2

feels

Switch hot  
neutral by

DP

CLEAR - LINE IN ↓  
SPST SWITCH BETWEEN 3 & 6



Sump - w/ water - 25 Sump (10 sec.)

don't run sump motors SPDT

Poller - DIR first, then 10 power SPDT

1 = 1/2 8 = 1/2  
4 & 5 → roller top, 3 & 6 bottom  
default = top