

1 August 2014  
staffing Mtg

~ 100 boxes to make (Per Dennis' sparing analysis)  
~ 400 repairs per year project wide  
~ 200 AA/AI to retest/reintegrate

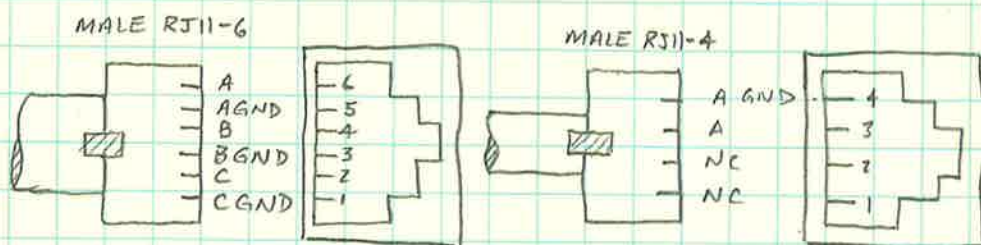
Out of ~\$425K available ~\$380K  
upgrades test stands, creates repair facility  
extends 2 staff for 1 yr.

Look at making Jay term → Need job description

August 2014  
ABBOTT  
sub crimper

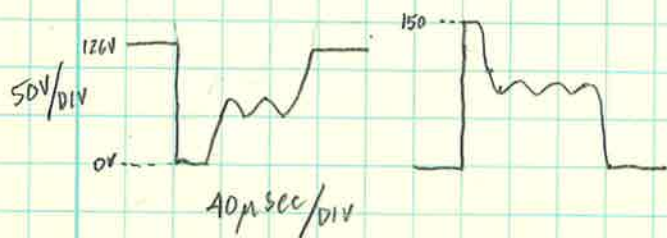
AMP "Handle Assembly 58074-1"  
HDE 20 style D-SUBS.

Aug 2014  
COMOTOR  
WIRING  
LO



3801  
COMOTOR  
DRIVER

With a scope on the drive relative to GND (scope DC coupled), the waveforms look like this for the two directions

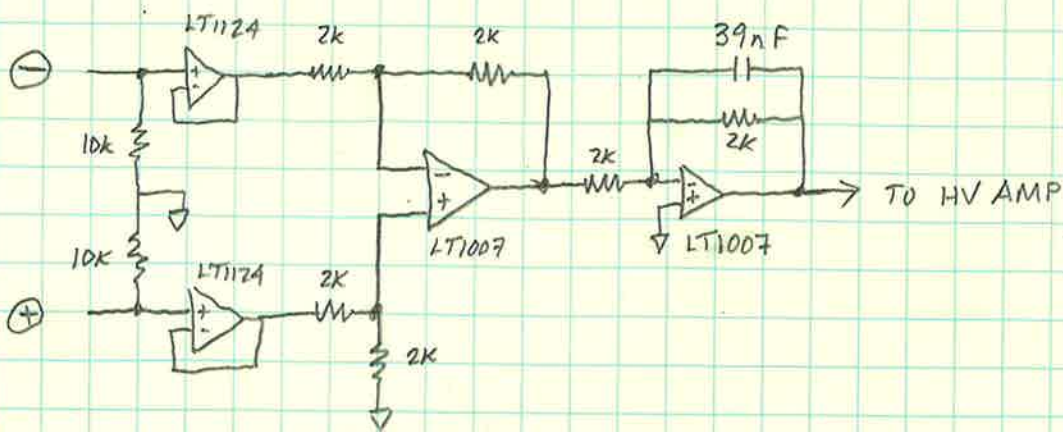


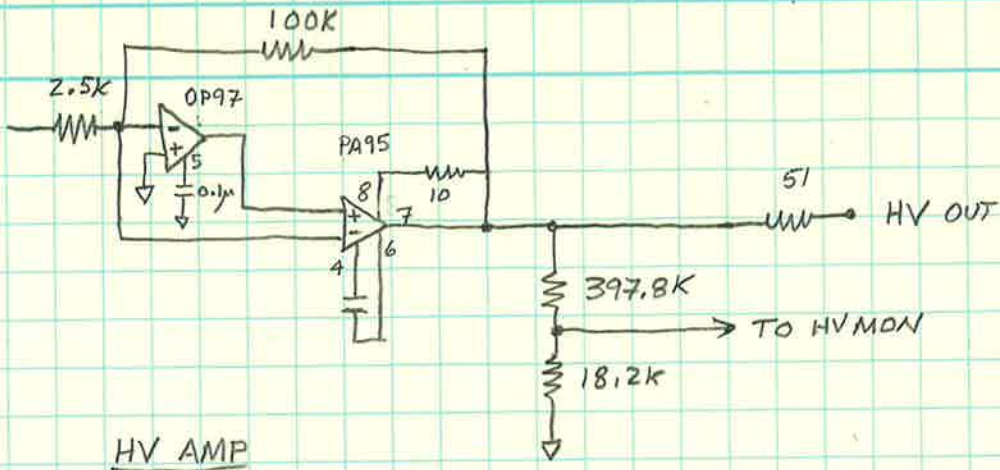
MAP TO 9PIN D-SUB (FOUND AT LLO)

RJ11-4	9PIN D
1	2
2	3
3	7
4	5

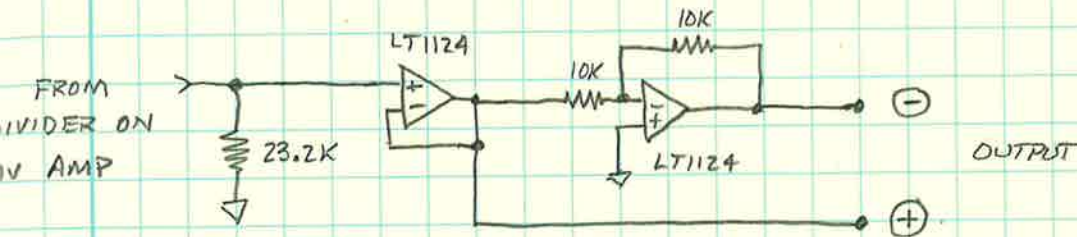
DRIVE  
GND

Aug 2014  
SD AMP  
ER E3074

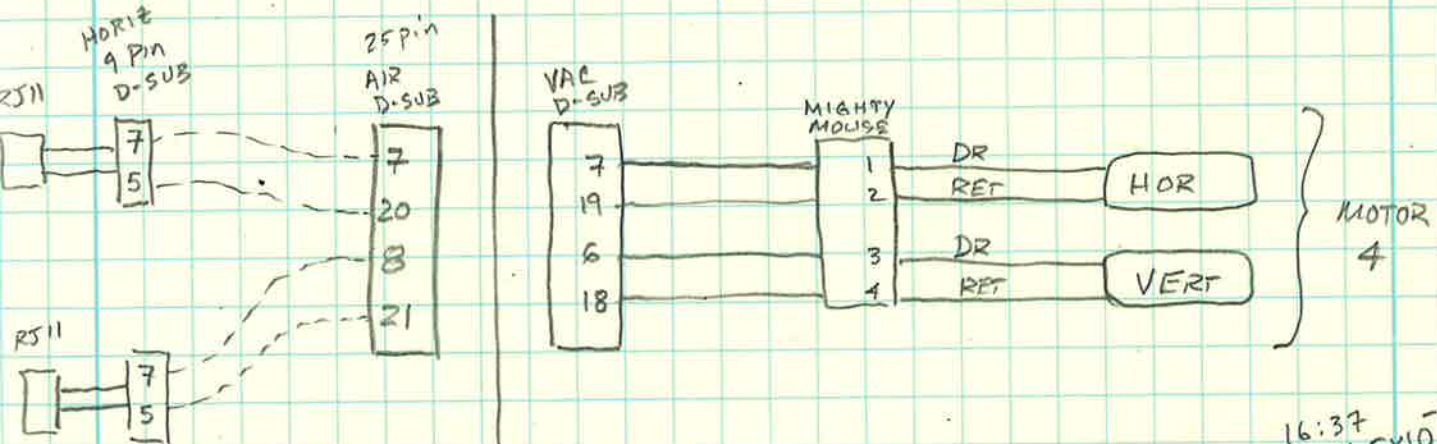




HV AMP



MONITOR AMP



VAC  $16.37$   
 $P = 4.5 \times 10^{-4}$  TORR

	AIR		VAC		INSERT		RESTORE	
	(INSERT)	(RESTORE)	INSERT	RESTORE	INSERT	RESTORE	INSERT	RESTORE
	AIR TIME -1T	AIR TIME +1T	VAC TIME -1T	VAC TIME +1T				
+6	12.1 sec	15.8 sec	11.8	17.4	13.0	18.2		
+3	12.2 sec	19.7	13.1	18.4	12.0	19.6	13.5	19.4
0	12.1	24.3	12.7	22.6	12.4	21.8	13.4	21.7

THIS DATA  
TAKEN ON  
MOTOR SCRIBED  
WITH LETTER  
"A"

36.7  
60.4

Using model 8801 picomotor driver at 1KHz (FULL SPEED). 0 turns is approx. a fully inserted picomotor (spring stretched to max allowed). We didn't have a limit collar, so the full insert was eyeballed.

3 times at each point ^ the ball bearing on the mount

UNIT MARKED  
"B"

		INSERT	RETRACT	INSERT	RETRACT
		AIR TIME -IT	AIR TIME +IT	VAC TIME -IT	VAC TIME +IT
+6	H	14.5 sec	13.4 sec	13.6	12.9
	V	13.7	14.5	14.2	15.4
+3	H	13.1	13.1	13.1	13.2
	V	13.7	14.3	17.5	19.9
0	H	13.1	13.3	13.2	13.1
	V	15.8	15.6	18.5	18.8

VAC TEST  
TIME: 19:03  
PRESSURE:  $4.4 \times 10^{-5}$  TORR