No reading means all over the range (X) changing back and forth

Readings are from Pin To connector Blue wire (Neutral)

reading are showing negative VDD and VCC in 120V (Red) connector

DC

DC readings

	Q	Qs	Mode	NC	A	B	VDD
bad on	0-.5	same	same	0	0-.5	same	same
bad off	X	X	X	0	X	X	X
good on	0-.2	0-.2	14.7-15.2	0	.5-.25	same	same
good off	X	X	X	0	X	X	X

MC14541 BCP

	NSS	MR	AR	NC	RS	C	R
good off	X	X	X	0	X	X	X
good on	(14.6-15.2)	same	same	0	7-7.3	7.2-7.3	7-7.5
Bad off	X	X	X	0	X	same	same
Bad on	0-.6	same	same	0	0-.6		

these vary not w/Auger

	Q	Qs	Mode	NC	A	B	VDD
Auger	0-.5	0-.25	0-.25	0	0-.6	0-.6	0-.26
	14.8-15.2	0-.26	0-.26	0	14.9-15.3	same	0-.25

MC14541 BCP

	VSS	MR	AR	NC	RS	C	R
	0-.2	same	same	0	6.9-7	8-8.2	7-7.2
	X	X	X	0	X	0-.3	0-.26

	120	120	120	122	120	121	120	120
			0	.5	0	X	.4	0
	0	0	120	120	120	120	120	120
	120	120	0	.2	0	X	.4	0
	0							
	120	120	120	120	120	120	120	120
	0	0	0	.3	0	X	0	0
	120	120	120	120	120	120	120	120
	0	.3	0	.3	.4	X	.5	0

Speed Pin, SS, DR, TF, TC, Vcc, LC, Trip

GPS ZN410E

SS, Amp, TF, RC, CS, Qv, Trig, CL

	.4	.3	0	0	.2	0	0	0
	120	120	120	120	120	120	120	120
	0	0	0	.1	.6	0	0	0
	120	120	120	120	120	120	120	120
	0	0	0	0	.2	0	0	0
	120	120	120	120	120	120	120	120
	0	0	0	0	.9	0	0	0
	120	120	120	120	120	120	120	120

AC

Readings from Pin (N) and Also Connector Blue wire (Neutral)

AC

bad on B plug
bad off N chip
bad off B plug
good on N chip
good on B plug
good off B plug
good off N chip

good off to N chip
good off to B plug
good on N chip
good on B plug
bad off N chip
bad off B plug
bad on N chip
bad on B plug

	120	120	120	120	120	120	120	120
	0	0	0	0	0	0	0	0
	120	120	120	120	120	120	120	120
	1.1	1.2	1.1	1.2	1.1	1.2	1.1	1.2
	120	120	120	120	120	120	120	120
	1.1	.8	1.1	.5	1.1	.8	1.1	.5
	120	120	120	120	120	120	120	120
	0	0	0	0	0	0	0	0
	120	120	120	120	120	120	120	120
	.1	.1	.1	.1	.1	.1	.1	.1
	120	120	120	120	120	120	120	120
	1.2	1.7	1.2	1.7	1.2	1.7	1.2	1.7
	120	120	120	120	120	120	120	120
	0	0	0	0	0	0	0	0
	120	120	120	120	120	120	120	120
	X	X	X	X	X	X	X	X

Vs, Vout, Vo, Vi, TKE 1067, Rset, CV, C, GND

(C is 15 when) LED on

	121.2	121.8	121.8					
	.3 vary	.3 vary	.3 vary					
	120.6	(120.9-15)	121					
	-15-13	(-15-0)	(-15.1-14.2)					
	122.5	123						
	.3 vary	.3 vary						
	121.5	121.5	123					
	.5 vary	.5 vary	.3 vary					
			121.9					
			.5 vary					

EC B

	0-.6	same	same	same	same	same	same	
	X	X	X	X	X	X	X	
	6.5-6.9	same	same	same	14.8-15.2	13-14.2	14.8-15.2	
	X	X	X	X	X	X	X	

Vss, Out3, Cont2, Cont2, Out2, Out1, In1

MC14016 BCP

Out3, In3, Out4, In4, Cont4, Cont4, VDD

	0-.25	0-.4	0-.25	.8-1.25	same	same	same
	X	X	X	X	X	X	X
	0-.6	same	same	same	same	same	same

readings DC

EC B

good off ac	121.8	121.8	121.8
dc	.5 Vary	.5 Vary	.5 Vary
good on ac	120.8	120.8	120.8
dc	-14 Vary	-15 Vary	-15 Vary
bad off ac	122.5	122.5	123
dc	.5 Vary	.5 Vary	.5 Vary
bad on ac	121.5	121.5	122.5
dc	0-.9 Vary	0-.9 Vary	0-.9 Vary

EC K

	69.2	121.9	121.9	121.8				
	54.7 Vary	0 Vary	0 Vary	0 Vary				
	116.8	116.8	116.8	116.9				
	-3 Vary	-3 Vary	-3 Vary	-3.5 Vary				
	71	123	0 Vary	123				
	54 Vary	0 Vary	0 Vary	0 Vary				
	5.8	122.1	122.1	122.1				
	5.8	0-.5 Vary	0-.5 Vary	0-.5 Vary				

good off ac, dc
good on ac, dc
bad off ac, dc
bad on ac, dc

readings DC

Auger

	0-.6	same	same	same	same	same	same	
	X	X	X	X	X	X	X	
	14.9-15.2	0-15.2	6.6-7	same	same	same	same	
	X	X	X	X	X	X	X	
	0-.6	0-.45	0-.2	same	same	same	same	
	X	X	X	X	X	X	X	

Cont1, Cont2, Out2, Out1, Cont3, Cont4, Out4, Vdd

MC14016 BCP

Auger

	0-.25	0-.6	same	same	same	same	same	
	X	X	X	X	X	X	X	
	14.9-15.2	14.9-15.2	14.9-15.2	same	same	same	same	
	X	X	X	X	X	X	X	
	0-.25	0-.25	0-.25	same	same	same	same	
	X	X	X	X	X	X	X	

Auger

Reading DC

	0-.6	same	same	same	same	same	same	
	X	X	X	X	X	X	X	
	14.9-15.2	0-15.2	0-.4	14.9-15.2	14.9-15.2	14.9-15.2	14.9-15.2	
	X	X	X	X	X	X	X	
	0-.6	same	same	same	same	same	same	
	X	X	X	X	X	X	X	
	0-.3	same	same	same	same	same	same	
	X	X	X	X	X	X	X	

Vss, Out3, Cont3, Cont2, Out2, Out1, Cont1, Vdd

MC14001 BCP

Auger

	0-.25	same	same	same	same	same	same	
	X	X	X	X	X	X	X	
	14.9-15.2	same	0-.2					
	X	X	X					

Auger

	0-.4	0-.4						
	123	123						
	0-.3	0-.3						
	123	123						
	.8 Vary	.4 Vary						
	122.7	122.7						
	0-.38	0-.25						
	123.2	123.2						

EC A

	0-.7	0-.7						
	123	123						
	0-.3	0-.3						
	123	123						
	-15 Vary	-15 Vary						
	122.5	122.5						
	0-.3	0-.25						
	123.2	123.2						

EC A

dc
bad on ac
dc
bad off ac
dc
good on ac
good off dc
good off ac

Auger

Reading Vary