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Charging / Not Charging Table

by: Larry Rubin

	Engine (alternator)	Shore Power	Generator	Charger	Boost Switch	Engine Batteries	House Batteries	if not charging as indicated then possible cause
1	On	On	On	On	On	charging	charging	
2	On	On	On	On	Off	charging	charging	
3	On	On	On	Off	On	charging	charging	
4	On	On	On	Off	Off	charging	charging	
5	On	On	Off	On	On	charging	charging	
6	On	On	Off	On	Off	charging	charging	
7	On	On	Off	Off	On	charging	charging	
8	On	On	Off	Off	Off	charging	charging	
9	On	Off	On	On	On	charging	charging	
10	On	Off	On	On	Off	charging	charging	
11	On	Off	On	Off	On	charging	charging	
12	On	Off	On	Off	Off	charging	charging	
13	On	Off	Off	On	On	charging	charging	#2 bad boost solenoid
14	On	Off	Off	On	Off	charging	charging	#1 bad isolator
15	On	Off	Off	Off	On	charging	charging	
16	On	Off	Off	Off	Off	charging	charging	
17	Off	On	On	On	On	charging	charging	
18	Off	On	On	On	Off	charging	charging	
19	Off	On	On	Off	On	not charging	not charging	
20	Off	On	On	Off	Off	not charging	not charging	
21	Off	On	Off	On	On	charging	charging	#9 bad boost solenoid
22	Off	On	Off	On	Off	charging	charging	#8 bad charger?
23	Off	On	Off	Off	On	not charging	not charging	
24	Off	On	Off	Off	Off	not charging	not charging	#7
25	Off	Off	On	On	On	charging	charging	#6
26	Off	Off	On	On	Off	not charging	charging	#5
27	Off	Off	On	Off	On	not charging	not charging	#4
28	Off	Off	On	Off	Off	not charging	not charging	#3
29	Off	Off	Off	On	On	not charging	not charging	not possible (charger on but no source of power)
30	Off	Off	Off	On	Off	not charging	not charging	not possible (charger on but no source of power)
31	Off	Off	Off	Off	On	not charging	not charging	not very interesting!

	Engine (alternator)	Shore Power	Generator	Charger	Boost Switch	Engine Batteries	House Batteries	if not charging as indicated then possible cause
32	Off	Off	Off	Off	Off	not charging	not charging	not very interesting!

Notes:



- Since there are 5 separate items that each can be on or off, then there are 32 possible combinations. Of course some of the combinations are not very interesting, e.g. 32 where everything is off.
- Mike’s note lists 9 conditions — I have cross referenced these in the list #1 - #9
- If the engine and therefore the alternator are on, then both battery banks are being charged (conditions 1 through 16)
- The charger is “sourced” by shore power or the generator. If the charger is turned on, and both shore power is connected and the generator is on, then the charger is getting power from shore power.
- Combination 10 is my problem situation in that I am not getting the engine batteries to charge

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