1966-67 Datsun SPL311 Charging Circuit LHD

By Curtis Marsten ©2014

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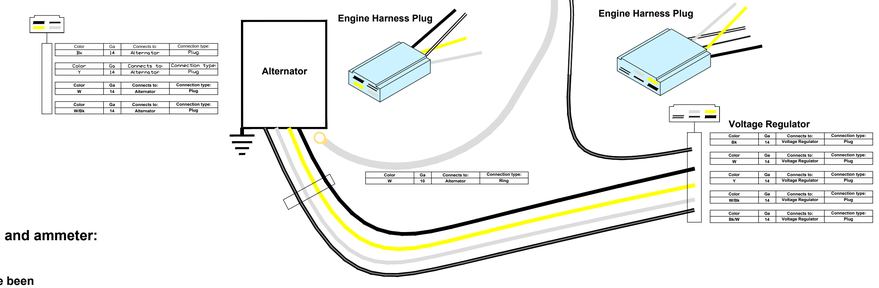
Notes:

1. Wire gauge callouts based on best guess.
2. Diagram created from original 40 plus year old Nissan/Datsun harnesses, schematics and use of ohmmeter. Later harnesses from NIssan may have color changes to wires. Consult schematics on 311s.org for notes on this.
3. Drawing is a graphical representation and not to scale.

Diagnostic tips to help you prevent catastrophic failure of your harness and ammeter:

1. First and foremost, the charging system has no fuse, sort of.
2. The schematic shows the wire in the starter harness as a fusible link To date I have been unable to determine if any are actually a fusible link. The ammeter is the next piece in the system that acts a fuse. This was okay when gauges were inexpensive. They are very expensive now and unavailable from Nissan.
3. The power for the whole electrical system must pass through the ammeter.
4. The wires for the charging system are bundled with all the other wires in the harness. If you have a short, the ammeter wires can overheat, melt and take several other wires with them.
5. To prevent this failure a 30 amp fuse should be inserted in to the circuit. There is some debate as to where the best place is to insert a fuse. Between the starter harness and the ammeter is a good place to start. Some have also inserted a fuse at the alternator.
6. The connection post on the alternator can break and cause a short in the system Be sure to check and make sure the post is not broken.
7. Check all your ground connections.
8. If you are completely dead, first thing of course is to start at the battery. After that the connection at the starter solenoid, fuse box, alternator and ammeter. If you find you have a dead ammeter then you can bridge the connection with a fuse. If a short is the problem and you have had smoke or sizzling then check the harness carefully.



Color	Ga	Connects to:	Connection type:
Bk	14	Alternator	Plug

Color	Ga	Connects to:	Connection type:
Y	14	Alternator	Plug

Color	Ga	Connects to:	Connection type:
W	14	Alternator	Plug

Color	Ga	Connects to:	Connection type:
W/Bk	14	Alternator	Plug

Color	Ga	Connects to:	Connection type:
W	10	Alternator	Ring

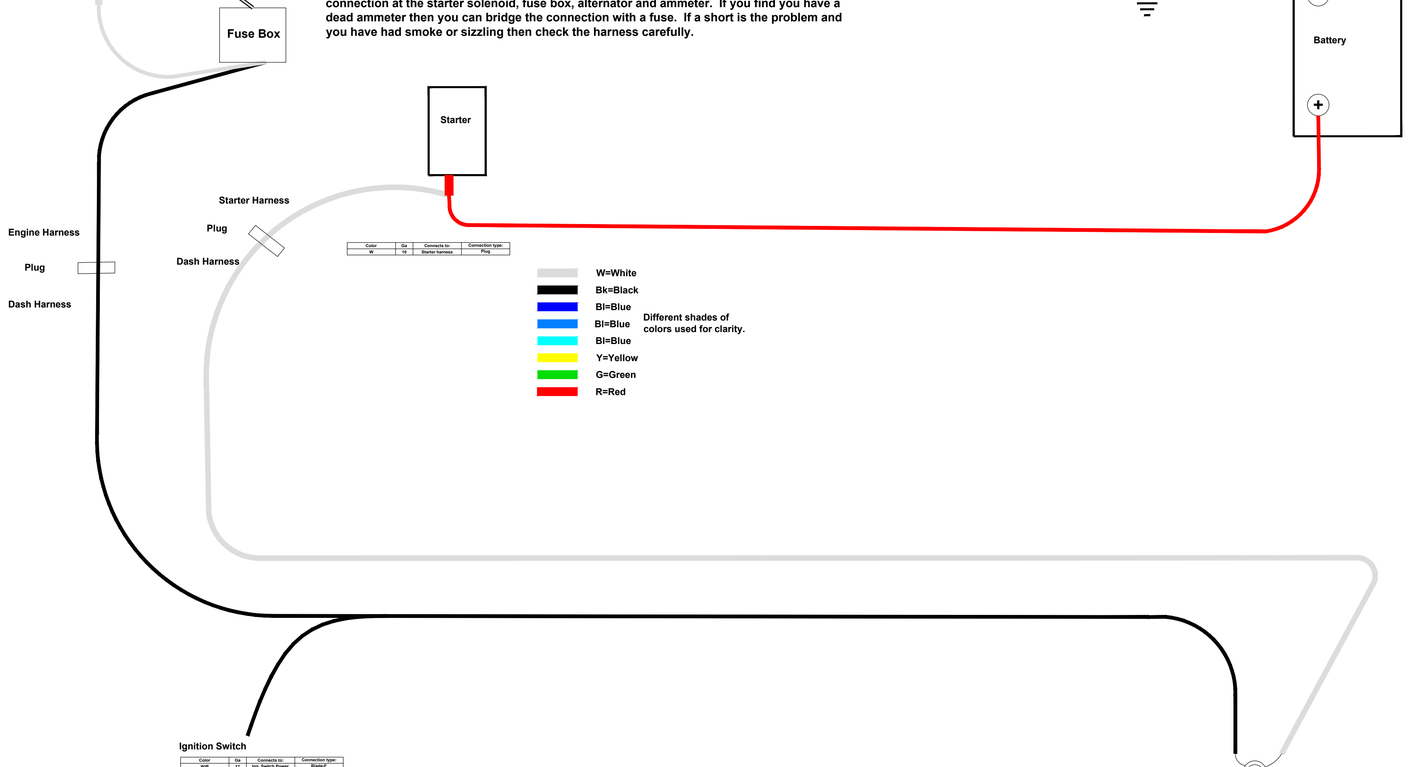
Color	Ga	Connects to:	Connection type:
Bk	14	Voltage Regulator	Plug

Color	Ga	Connects to:	Connection type:
W	14	Voltage Regulator	Plug

Color	Ga	Connects to:	Connection type:
Y	14	Voltage Regulator	Plug

Color	Ga	Connects to:	Connection type:
W/Bk	14	Voltage Regulator	Plug

Color	Ga	Connects to:	Connection type:
Bk/W	14	Voltage Regulator	Plug



Color	Ga	Connects to:	Connection type:
W	10	Starter harness	Plug

Color	Ga	Connects to:	Connection type:
W/R	12	Ign. Switch Power	Blade-F

Color	Ga	Connects to:	Connection type:
W	12	Ammeter-Neg.	Blade-F

Color	Ga	Connects to:	Connection type:
Bk	12	Ammeter-Pos.	Blade-F