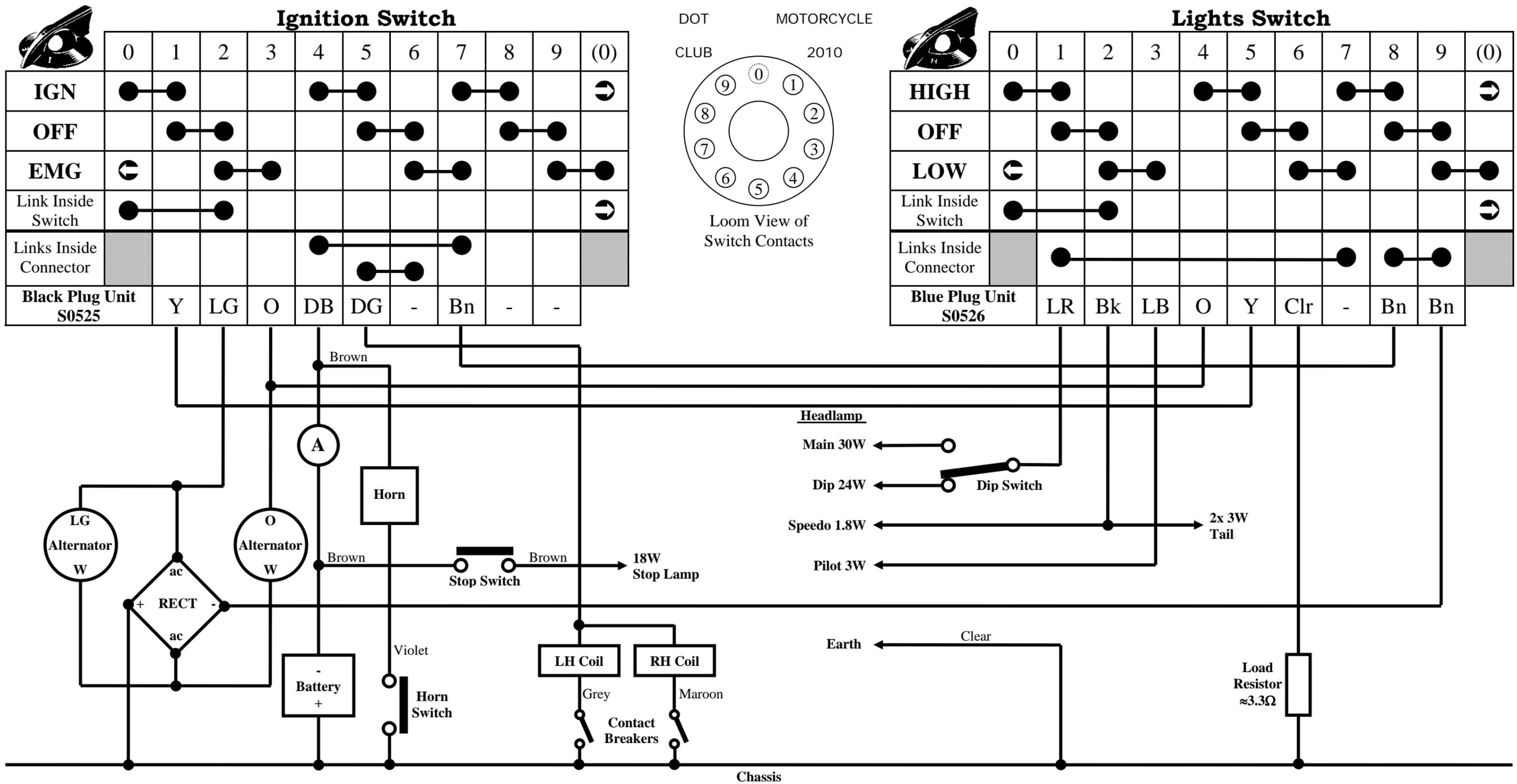


Wiring Diagram for Dot Sportsman's Roadster (with Series 114 Wipac 6V Alternator and Associated Electrics)



Wire	Colour	Carries
Y	Yellow	Alternator Load Resistor IN from Lights switch OFF or Lighting coils Charge IN from Lights switch HIGH (see below).
LG	Light Green	Alternator Load/Charge OUT to Rectifier ac .
O	Orange	Lighting coils IN direct (only used by EMG position).
DB	Dark Blue	Battery IN via Ammeter.
DG	Dark Green	Battery OUT to Ignition Coils IGN & EMG .
Bn	Brown	Battery OUT direct to Lights switch and Charge IN from Rectifier.

Wire	Colour	Carries
LR	Light Red	Battery OUT to Dip switch HIGH .
Bk	Black	Battery OUT to Speedo & Tail lamp LOW & HIGH .
LB	Light Blue	Battery OUT to Pilot lamp LOW .
O	Orange	Lighting coils IN direct (only used by HIGH position).
Y	Yellow	Alternator Load/Charge OUT to Ignition switch OFF & HIGH .
Clr	Clear	Alternator Load Resistor IN (only used by OFF position).
Bn	Brown	Battery IN/OUT via Ammeter and Charge IN from Rectifier - .

Basic regulation of charge voltage is provided by the Lights switch:-

- OFF** connects ⑤ to ⑤, applying the Alternator Load Resistor which prevents the battery being over-charged when only the Ignition is in circuit (NOTE - the resistor is embedded within the main loom).
- LOW** removes the Load Resistor, allowing the alternator to balance the additional 1.8A drawn by Pilot, Speedometer and Tail lamps (NOTE - Pilot lamp is only powered in the **LOW** position).
- HIGH** connects ④ to ⑤, bringing the Lighting coils into circuit and thereby allowing the alternator to maintain battery charge despite the further 3.5A/4.5A drawn by Dip/Main beam.