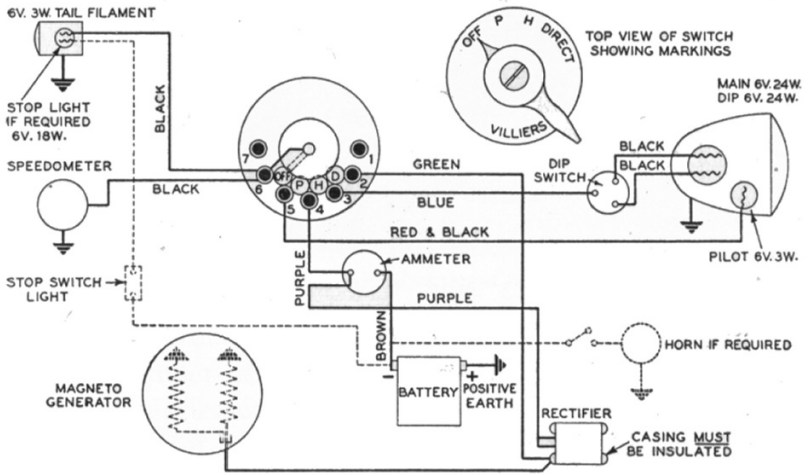
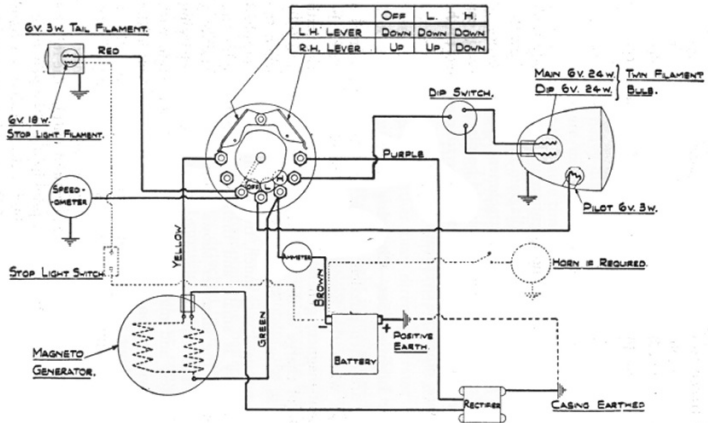


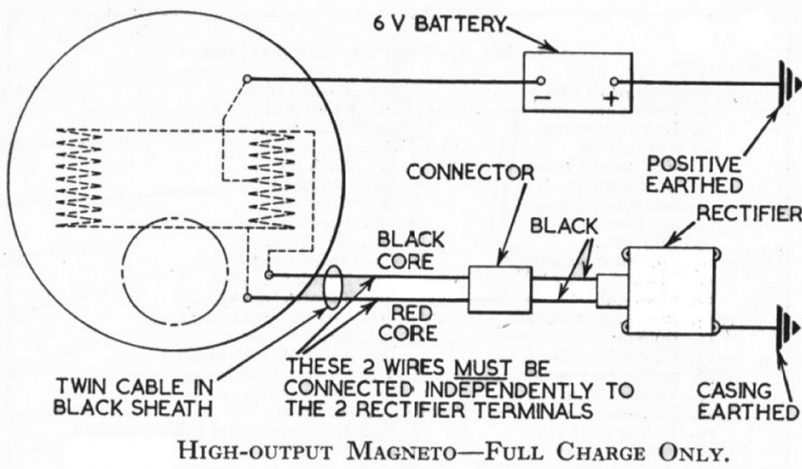
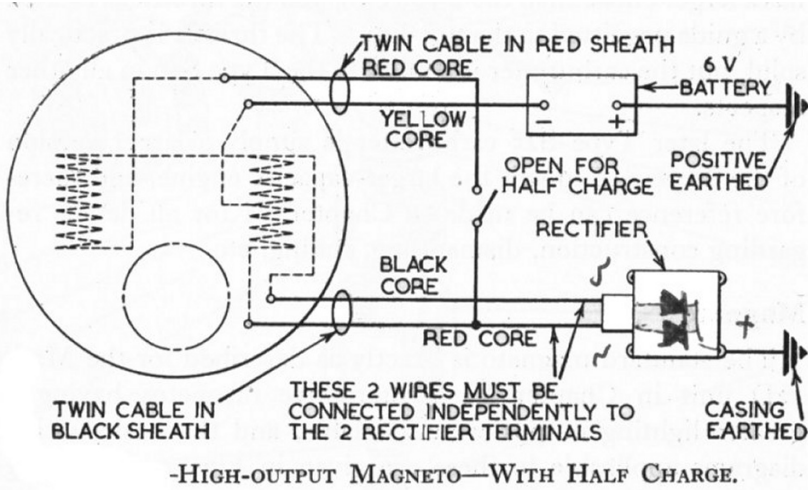
Wiring diagrams for 10D and 6E and similar, upper is direct, lower is rectified



WIRING DIAGRAM OF A.C./D.C. LIGHTING SET, INTRODUCED IN 1921.

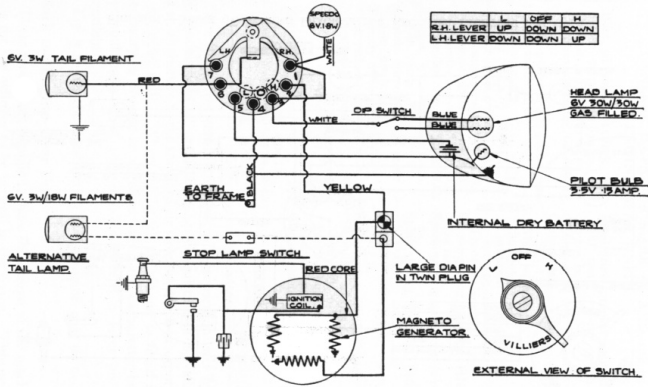


Wiring diagrams for 12D and 8E and similar,



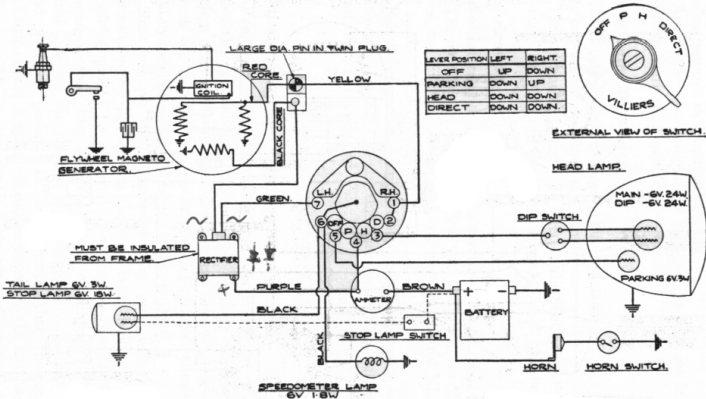
9E and 32A and similar

Direct



Rectified

You can view these charts, and more, at <http://www.villiers.info>



Villiers Singles Improvements Handbook 3

15 Appendices

Data sheet of degrees and cotangents

Degrees	Cot	Degrees	Cot	Degrees	Cot
1.000	57.290	8.750	6.497	16.500	3.376
1.250	45.829	9.000	6.314	16.750	3.323
1.500	38.188	9.250	6.140	17.000	3.271
1.750	32.730	9.500	5.976	17.250	3.221
2.000	28.636	9.750	5.820	17.500	3.172
2.250	25.452	10.000	5.671	17.750	3.124
2.500	22.904	10.250	5.530	18.000	3.078
2.750	20.819	10.500	5.396	18.250	3.033
3.000	19.081	10.750	5.267	18.500	2.989
3.250	17.611	11.000	5.145	18.750	2.946
3.500	16.350	11.250	5.027	19.000	2.904
3.750	15.257	11.500	4.915	19.250	2.864
4.000	14.301	11.750	4.808	19.500	2.824
4.250	13.457	12.000	4.705	19.750	2.785
4.500	12.706	12.250	4.606	20.000	2.747
4.750	12.035	12.500	4.511	20.250	2.711
5.000	11.430	12.750	4.419	20.500	2.675
5.250	10.883	13.000	4.331	20.750	2.639
5.500	10.385	13.250	4.247	21.000	2.605
5.750	9.931	13.500	4.165	21.250	2.571
6.000	9.514	13.750	4.087	21.500	2.539
6.250	9.131	14.000	4.011	21.750	2.507
6.500	8.777	14.250	3.938	22.000	2.475
6.750	8.449	14.500	3.867	22.250	2.444
7.000	8.144	14.750	3.798	22.500	2.414
7.250	7.861	15.000	3.732	22.750	2.385
7.500	7.596	15.250	3.668	23.000	2.356
7.750	7.348	15.500	3.606	23.250	2.328
8.000	7.115	15.750	3.546	23.500	2.300
8.250	6.897	16.000	3.487	23.750	2.273
8.500	6.691	16.250	3.431	24.000	2.246

Data sheet for setting ignition timing (stroke 72mm)

DegATDC	Piston crown		DegATDC	Piston crown	
	mm	in		mm	in
15.000	1.546	0.0608	20.000	2.730	0.1075
16.000	1.757	0.0692	21.000	3.004	0.1183
17.000	1.981	0.0780	22.000	3.292	0.1296
18.000	2.218	0.0873	23.000	3.591	0.1414
19.000	2.467	0.0971	24.000	3.903	0.1537
			25.000	4.227	0.1664