

LAB REPORT 2

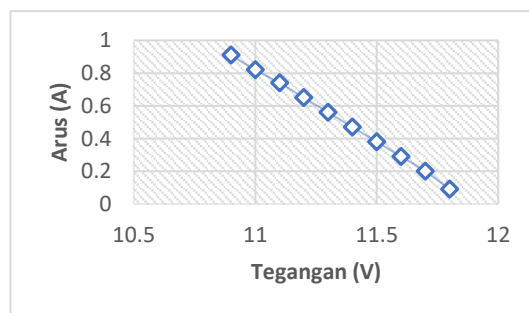
Pertemuan 1. Motor DC – Driver Motor

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Tanggal : 6 September 2021
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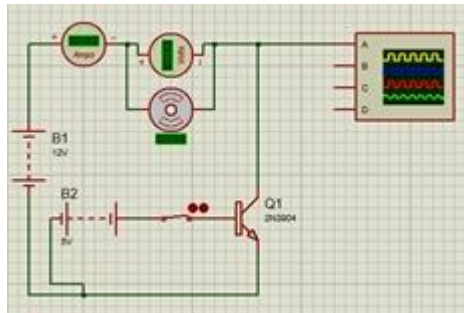
I. Transistor dan Motor DC ubah load, baterai 12 5

No	Tegangan (V)	Arus (A)	Arah
1.	+11.8	+0.09	CW
2.	+11.7	+0.20	CW
3.	+11.6	+0.29	CW
4.	+11.5	+0.38	CCW
5.	+11.4	+0.47	CCW
6.	+11.3	+0.56	CCW
7.	+11.2	+0.65	CW
8.	+11.1	+0.74	CW
9.	+11.0	+0.82	CW
10.	+10.9	+0.91	Not rotate

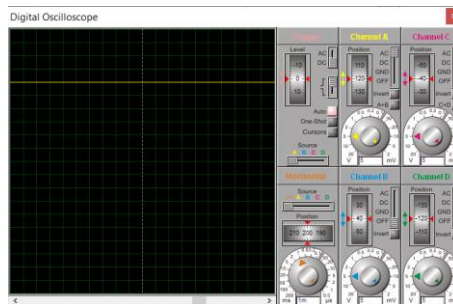
Grafik Tegangan (V) vs Arus (A)



Skematik



Bentuk sinyal saat motor dinyalakan

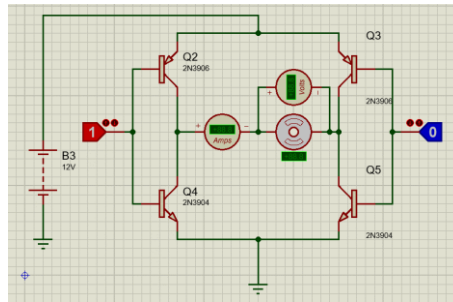


II. Arah Gerak Motor

No	L0	L1	Arah
1.	0	0	Not rotate
2.	0	1	CW
3.	1	0	CCW
4.	1	1	Not rotate

No	Tegangan (V)	Arus (A)	Arah
1.	-4.21	-0.18	CCW
2.	-6.07	-0.25	CCW
3.	-5.11	-0.21	CCW
4.	-4.63	-0.19	CCW
5.	-4.36	-0.18	CCW
6.	-4.18	-0.17	CCW
7.	-4.05	-0.17	CCW
8.	-3.96	-0.16	CCW
9.	-3.88	-0.16	CCW
10.	-3.83	-0.16	CCW

Skematik

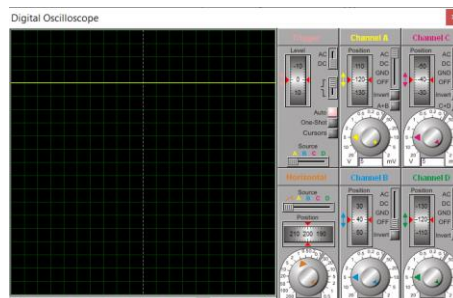


III. Merangkai IC Driver Motor

No	E1	I1	I2	O1	O2	Arah
1.	0	0	0	0	0	Not rotate
2.	0	0	1	0	0	Not rotate
3.	0	1	0	0	0	Not rotate
4.	0	1	1	0	0	Not rotate
5.	1	0	0	0	0	Not rotate
6.	1	0	1	0	1	CCW
7.	1	1	0	1	0	CW
8.	1	1	1	1	1	Not rotate

No	Tegangan (V)	Arus (A)	Arah
1.	5	0.19	CW
2.	6	0.23	CW
3.	7	0.27	CW
4.	8	0.31	CW
5.	9	0.34	CW
6.	10	0.38	CW
7.	11	0.42	CW
8.	12	0.46	CW
9.	13	0.50	CW
10.	14	0.54	CW

Bentuk Sinyal saat Motor dinyalakan



Bentuk sinyal sat diberi hambatan (25%, 50%, 100%)

