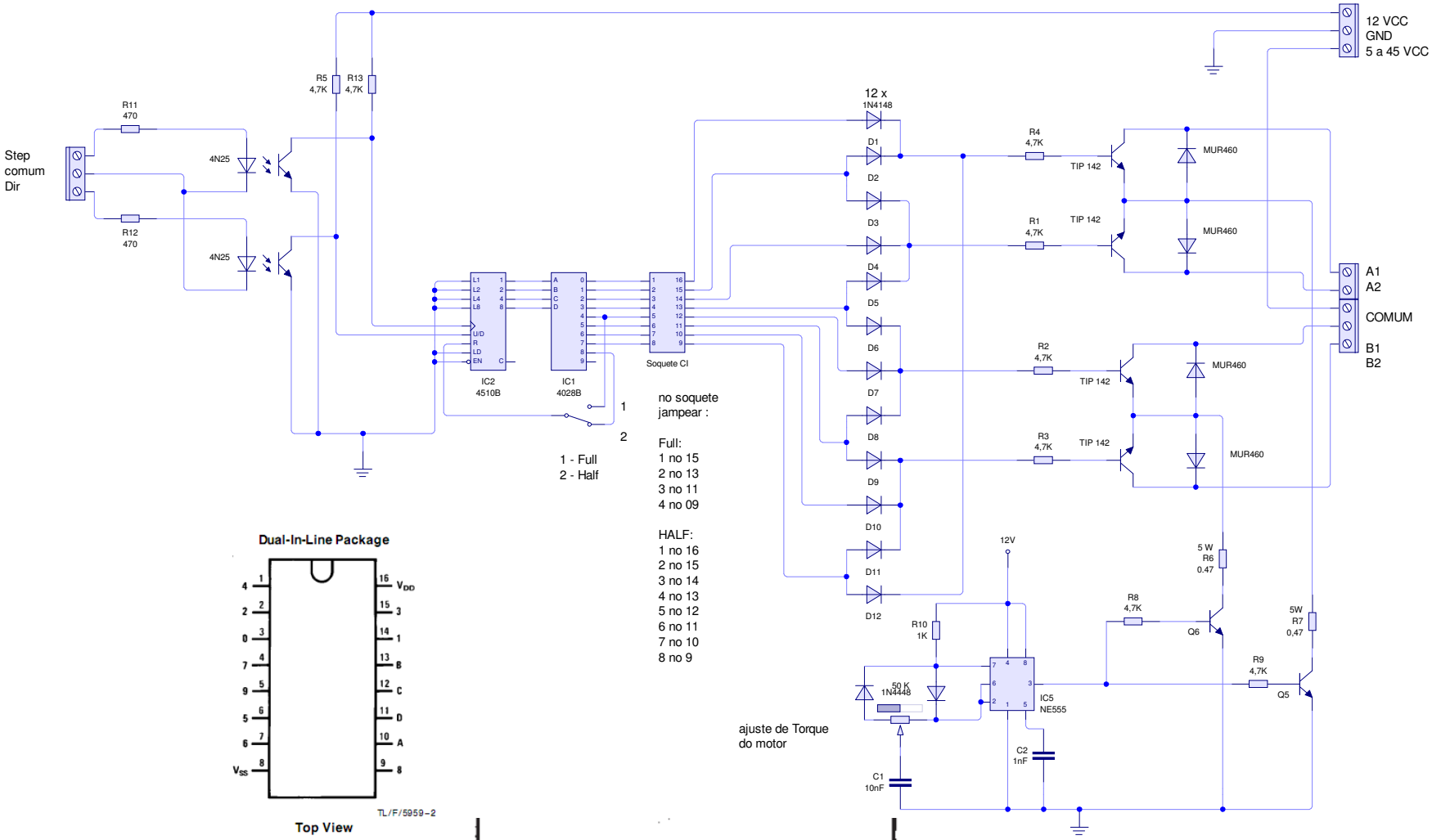
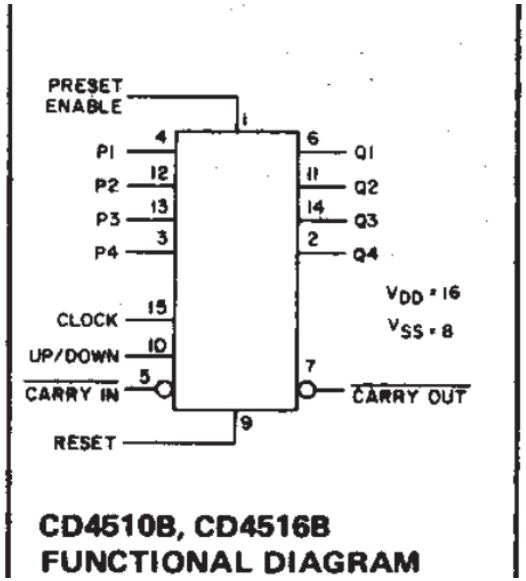

12 VCC
GND
5 a 45 VCC
Step
comum
Dir
R11
470
R12
470
4N25
4N25
R5
4,7K
R13
4,7K
12 x
1N4148
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
R4
4,7K
R1
4,7K
R2
4,7K
R3
4,7K
TIP 142
TIP 142
TIP 142
TIP 142
MUR460
MUR460
MUR460
MUR460
A1
A2
COMUM
B1
B2
IC2
4510B
IC1
4028B
Soquete CI
1
2
1 - Full
2 - Half
no soquete
jampear :
Full:
1 no 15
2 no 13
3 no 11
4 no 09
HALF:
1 no 16
2 no 15
3 no 14
4 no 13
5 no 12
6 no 11
7 no 10
8 no 9
12V
R10
1K
50 K
1N4448
C1
10nF
C2
1nF
IC5
NE555
ajuste de Torque
do motor
R8
4,7K
Q6
5 W
R6
0.47
5W
R7
0,47
R9
4,7K
Q5

Dual-In-Line Package
TL/F/5959–2
Top View
Order Number CD4028B


PRESET ENABLE
P1
P2
P3
P4
CLOCK
UP/DOWN
CARRY IN
RESET
Q1
Q2
Q3
Q4
CARRY OUT
VDD = 16
VSS = 8
CD4510B, CD4516B
FUNCTIONAL DIAGRAM