

Truth table 7474

PRE (4)	DATA (2)	CLR (1)	CLK (3)	/Q (6)	Q (5)
L	X	H	X	L	H
H	X	L	X	H	L
L	X	L	X	H+	H+
H	H	H	R	L	H
H	L	H	R	H	L
H	X	H	L	\Q	Q

7474 datasheet



7404 datasheet



7474 truth table filtered and reorganized

PRE (4)	DATA (2)	CLR (1)	CLK (3)	/Q (6)	Q (5)	Action
0V for 0.5 sec then 5V	Switch	Switch	Index	Output	Output (Unused)	
L	X	H	X	L	H	First half second preset is low at power up
H	X	H	L	\Q	Q	Searching, Switch not triggered
H	X	L	X	H	L	Switch triggered, Axis moves back
H	H	H	R	L	H	Hits Encoder index Signal. Machine homed

