

DIABLOJOY

RESET AND RUN STEP ONE

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Rev 3

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QUAD CCT

BOM

U1 = CD4043
U2-3 = CD4013
U4-5 = CD40106
D1-4 = 1N4148
R1-8 = 1M
R9-12 = 100K
C1 = 100uf electro
C2-6 = 0.1uf ceramic
C7-10 = 10pf ceramic

4 X IDENTICAL CIRCUITS . DESCRIPTION OF ONE AS FOLLOWS

RESET SIGNAL RECEIVED , SET PIN OF CD4043 RECIEVES LOGIC ONE,
Q OUTPUT OF CD4043 GOES HIGH PAUSE SIGNAL IS OUTPUT. DATA PIN OF CD4013 RECIEVES LOGIC ONE ,
Q OUTPUT OF CD4013 GOES HIGH ON RISING CLOCK EDGE OF NEXT RECEIVED CLOCK PULSE .
SEQUENCER RESETS TO STEP ONE VIA VERY SHORT PULSE FROM ONE SHOT CCT AND DIODE
NOTE THE RESET PULSE IS THEREFORE FORCED TO CONFORM TO THE CLOCK TIMING IMITATING A NORMAL RESET ACTION
RESET PIN OF CD4043 RECIEVES LOGIC ONE , Q OUTPUT OF CD4043 GOES LOW
DATA PIN OF CD4013 RECIEVES LOGIC 0 , Q OUTPUT OF CD4013 GOES LOW ON NEXT RECIEVED RISING EDGE CLOCK PULSE
SEQUENCER ADVANCES TO STEP 2 ON THAT RECIEVED RISING EDGE CLOCK PULSE
CIRCUIT IS BACK TO INITIAL STATE READY FOR NEXT RESET SIGNAL

