



Left fire buttons are on SW0 and SW1, HIGH when pressed.
Right fire buttons are connected in parallel on SW2.

The paddles are read by a 558 quad timer on the motherboard.
The 150K variable resistors are used to set the timeout periods for the individual timers.

The timers are reset which puts the signals in the HIGH state.
Then the code checks how long it takes for the signals to return to LOW to determine the position of the paddles.
Maximum timeout is about 3 milliseconds.

I/O Addresses for the Joysticks:

\$C061 – SW0
\$C062 – SW1
\$C063 – SW2

\$C064 – PDL0
\$C065 – PDL1
\$C066 – PDL2
\$C067 – PDL3

\$C070 – Reset Paddle Timers

Schematic Redrawn by Rhys Weatherley

Sheet: /

File: Dick_Smith_Cat_Joysticks.kicad_sch

Title: Dick Smith Cat Joysticks

Size: A4

Date:

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