



VDD = +5V  
VSS = GND

Parts List: Tuner Programmer / 27 Bit

- |               |                      |                    |
|---------------|----------------------|--------------------|
| CD 4098       | 1 Shot Multivibrator | CD 4081 Quad And   |
| CD 4047       | Binary Counter       | CD 4021 Shift Reg. |
| CD 4024       | Inverting Buffer     |                    |
| CD 4049       | Schmitt Trigger      |                    |
| CD 4584       | LED                  |                    |
| 4.7K Resistor | .14F Cap             |                    |
| 100K Resistor | 3900 pF Cap          |                    |
| 10K Resistor  | 1500 pF Cap          |                    |
| 220K Resistor | 100 pF Cap           |                    |
| 47K Resistor  | PIP Switches         |                    |
| 1K Resistor   | Toggle Switch        |                    |
|               | Push Switch          |                    |

MTM  
11/87

27 bit

Here's A

Valid Code:  $\emptyset$

$\emptyset \emptyset \emptyset \emptyset 1 \emptyset 1 \emptyset \emptyset \emptyset 1 1 \emptyset \emptyset \emptyset 1 \emptyset \emptyset \emptyset 1 \emptyset \emptyset \emptyset 1 \emptyset 1 \emptyset$

← Tuner 652.25 MHz  
@ 41.25 MHz IF  
gives 611 MHz

\* First Switch always Low!

TO DATA PIN on TUNER

From Pin 6 on 4098 one shot

DATA FLOWS UP AND OUT TOP

From Pin 10 on 4584 (Clock)

SWITCH WIRING Repeat 4X ↓

Switches used to Program Shift Register data

Switch ON = Low =  $\emptyset$

\* Bit  $\emptyset$  switch is always closed (Low)

Bits 1,2,3,4 are band switches

Bits 5 thru 19 are Freq. Data

Bit 20 is don't care

Bit 21 is IP

Bits 22-24 Mode

Bits 25-26 Steps

Bit 27 Tuning V

MM 1/07

