

# Gottlieb System 80/80A U2/U3 Rom Replacement

- Replaces both U2 & U3 ROM's
- Works with System 80, 80A and 80B boards
- Use with 2764, 27128, 27256 or 27512 type EPROM's
  - 140-101 Provided with 27C512
- Programming of adapter EPROM not provided by GPE due to copyright issues

## Installation Instructions

Always unplug machine from AC power when performing repairs or modifications!  
This assembly contains static sensitive components.

- 1 – Remove original U2 and U3 ROM's.
- 2 – If required, install new 24 Pin IC sockets at location U2 and U3.
- 3 – Install programmed EPROM on U2U3 Adapter Module.
- 4 – Set jumpers according to diagrams below.  
Jumpers based on System 80A or 80B data programmed within EPROM at locations 0x0000 through 0x1FFF and System 80 data programmed within EPROM at locations 0x2000 through 0x3FFF.
- 5 – Install U2U3 Adapter Module:  
Plug into both U2 and U3 locations. Sockets MUST be installed at both U2 AND U3 locations. Install such that Pin 1 of U2U3 Adapter Module is oriented towards TC1

### Warning

When plugging in U2U3 Adapter Module – verify all 48 pins line up with U2 and U3 sockets. Misaligned or bent pins may cause damage to Adapter Module and/or CPU board.

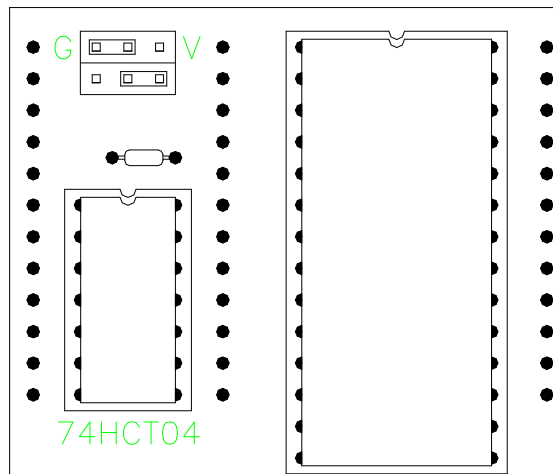
## System 80 Configuration:

Top jumper oriented towards "G"

Bottom jumper oriented towards "V"

Data stored within EPROM starting at location 0x2000

Use 27C512 EPROM for System 80 Configuration.



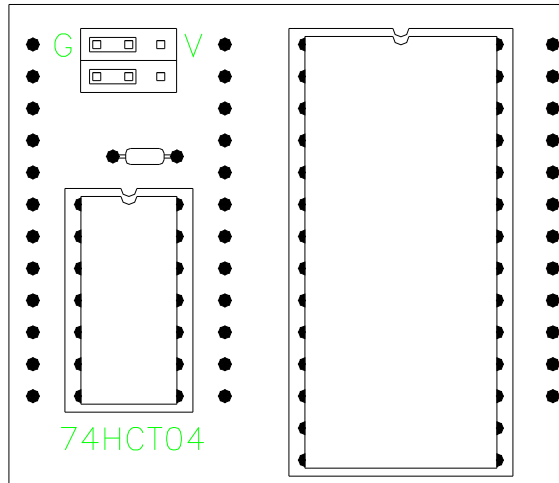
## System 80A Configuration:

Top jumper oriented towards "G"

Bottom jumper oriented towards "G"

Data stored within EPROM starting at location 0x0000

Use 27C512 EPROM for System 80A configuration.



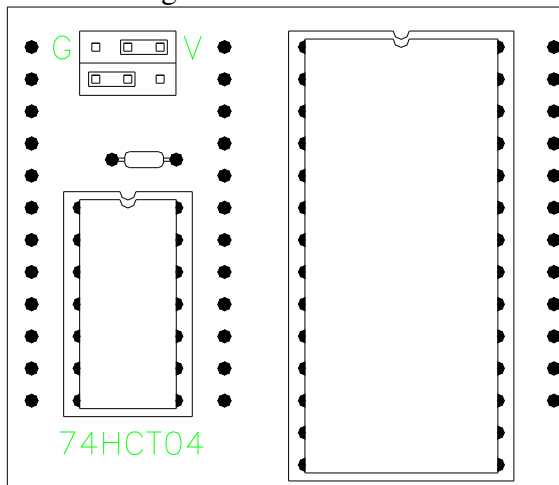
## System 80B Configuration:

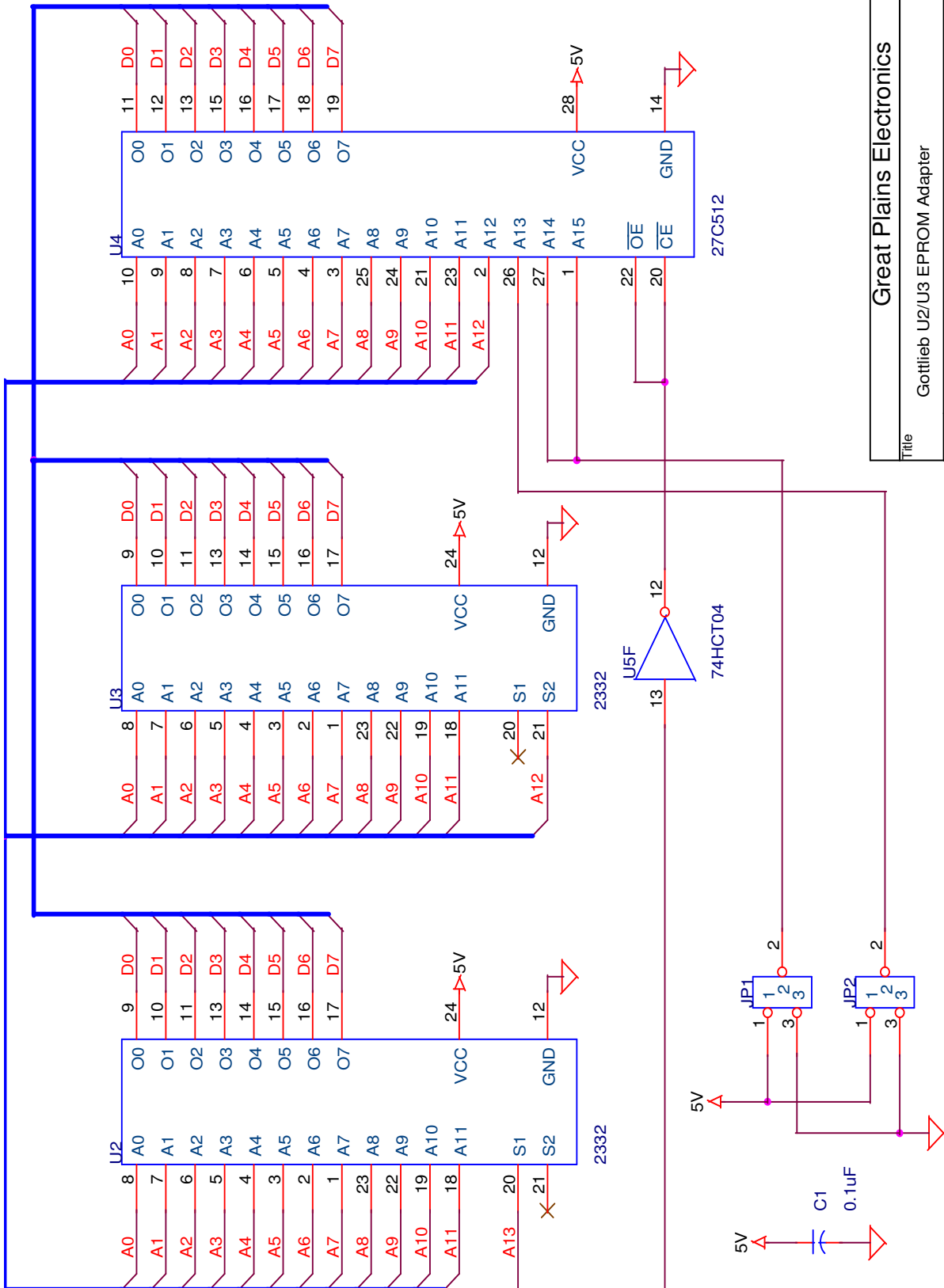
Top jumper oriented towards "V"

Bottom jumper oriented towards "G"

Data stored within EPROM starting at location 0x0000

Use 2764 EPROM for System 80B configuration





Title		Great Plains Electronics	
Size		Gottlieb U2/U3 EPROM Adapter	
Document Number		142-001	
Rev	-		
Date:	Tuesday, August 24, 2004	Sheet	1 of 1

U2/U3 Adapter Parts List

Item	Qty	UM	Part Number	Description	Ref Designator
1	1	EA	141-001	Printed Circuit Board, U2/U3 Adapter	
2	1	EA	27C512	IC, EPROM (provided with 140-101)	U4
3	1	EA	74HCT04	IC, Hex inverter	U5
4	1	EA	IS-628-MP	IC Socket, 28 Pin, 0.6"	XU4
5	1	EA	IS-314-MP	IC Socket, 14 Pin, 0.3"	XU5
6	1	EA	67996-272	Header, 2x36, 0.1"	
7	1	EA	CCM-0.1uF-20V	Capacitor, Monolithic, 0.1uF, 20V	C1
8	4	EA	6604P-12G	SIP Adapter, 0.018", 12 Pin	
9	2	EA	65474-001	Jumper	

SIP Adapter Alternate -- 1 x Mill-Max 350-10-164-00-006

Fabrication Notes:

1 – If required, cut item 8 into four 12-pin lengths.

Install item 8 with 0.018" diameter legs exposed for insertion into IC socket.

Improper installation of Item 8 will prevent insertion of completed assembly into IC sockets.

Item 8 –MUST- be first item installed.

2 – Cut 2x3 section from item 6 for use as 6-pin jumper header