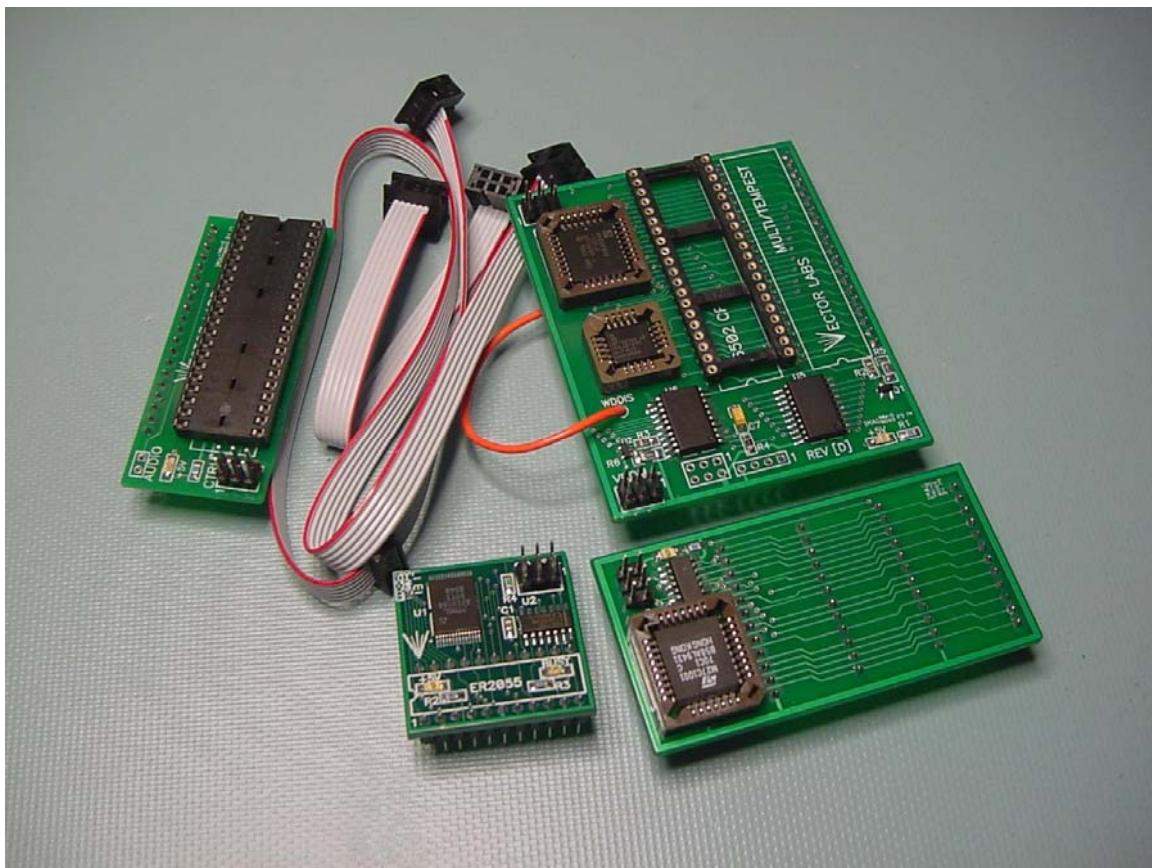


# TEMPEST MULTIGAME KIT INSTALL GUIDE



*The Tempest Multigame kit includes the items pictured above.*

1. Main PCB
3. Vector PCB
4. Pokey PCB
5. ER2055 PCB
6. 6 pin ribbon cable (short)
7. 6 pin ribbon cable (long)

Some of the recommend tools for the install are pictured below.



***IMPORTANT INFORMATION PLEASE READ AND UNDERSTAND FULLY***

Your boardset must be FULLY FUNCTIONAL before installing the Multigame kit.

The Tempest Multigame kit will not “fix” a pre-existing problem with your game.

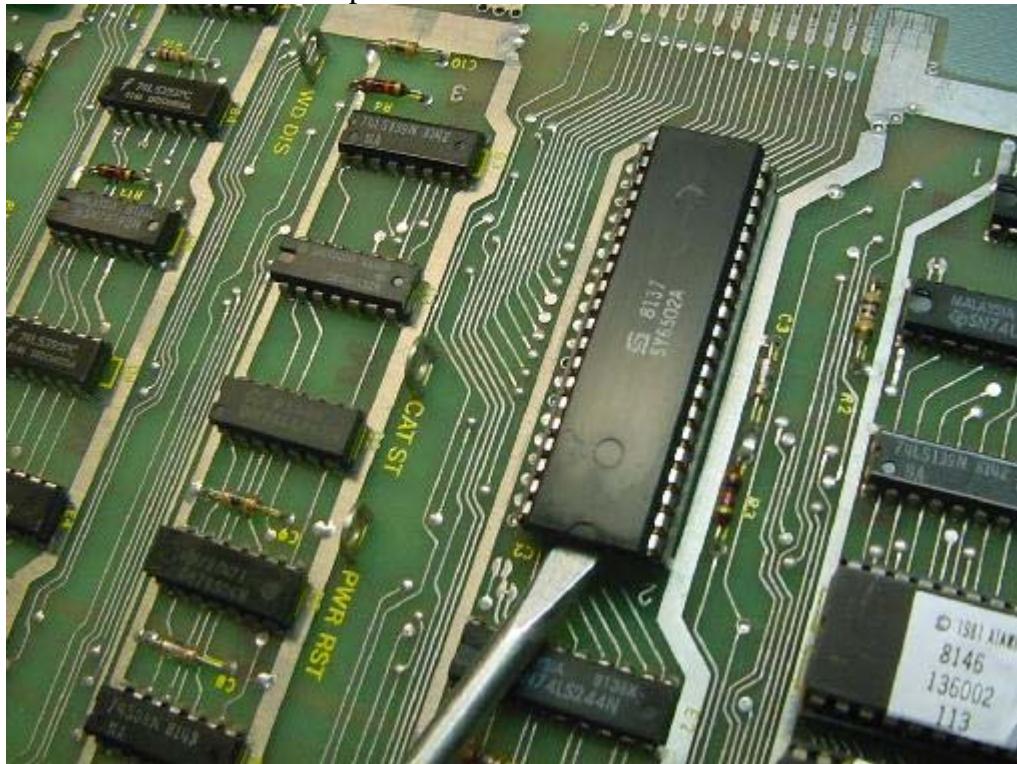
Also make sure that your power supply outputs the proper voltages (especially +5v).

Remove ROM's from N/P3 & R3 from main board. They are the VECTOR roms.

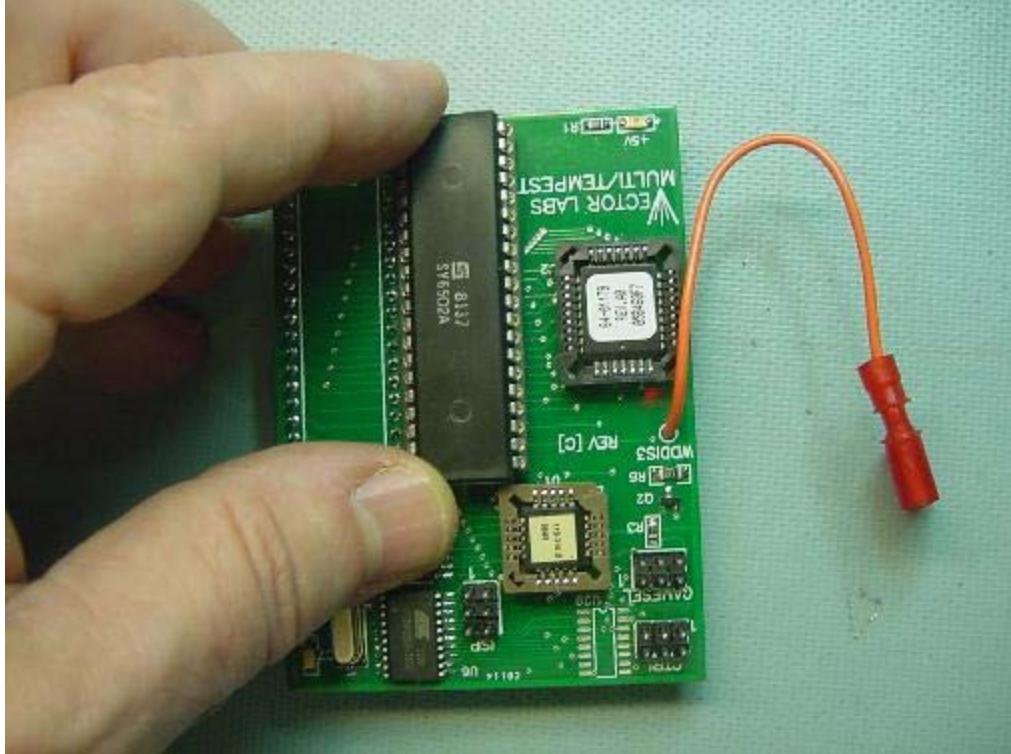
You can optionally remove the CODE roms D1 through R1 if desired.

However leaving them in is optional as they will not interfere with the multigame in any way.

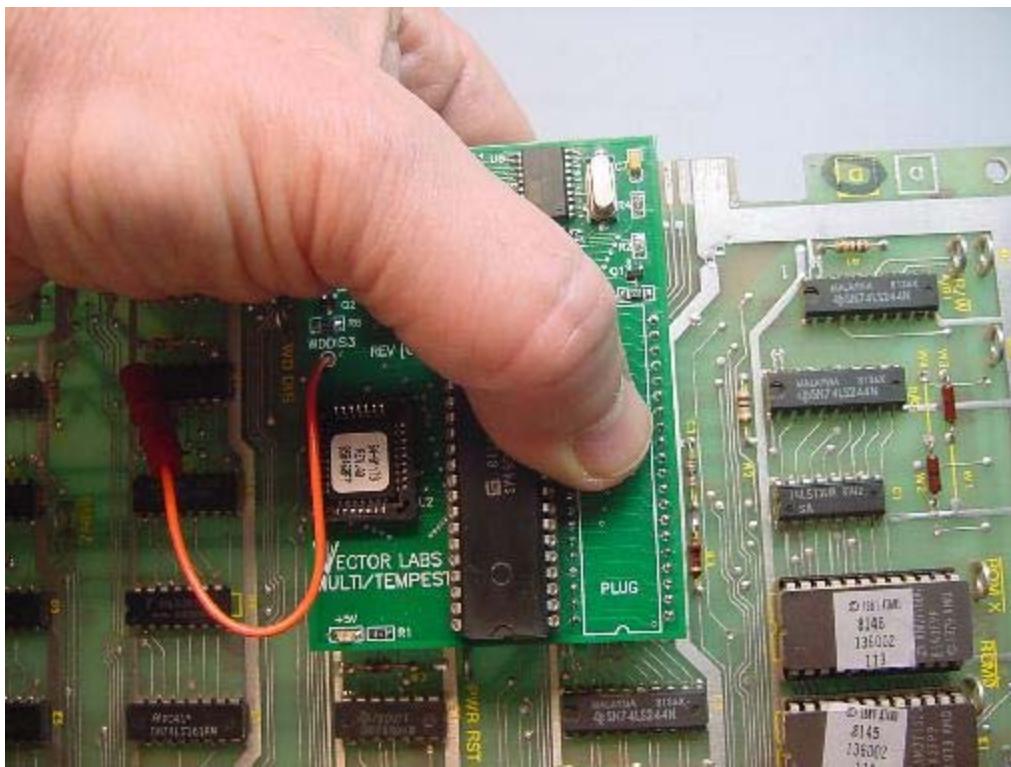
Remove 6502 processor as shown below and set aside.



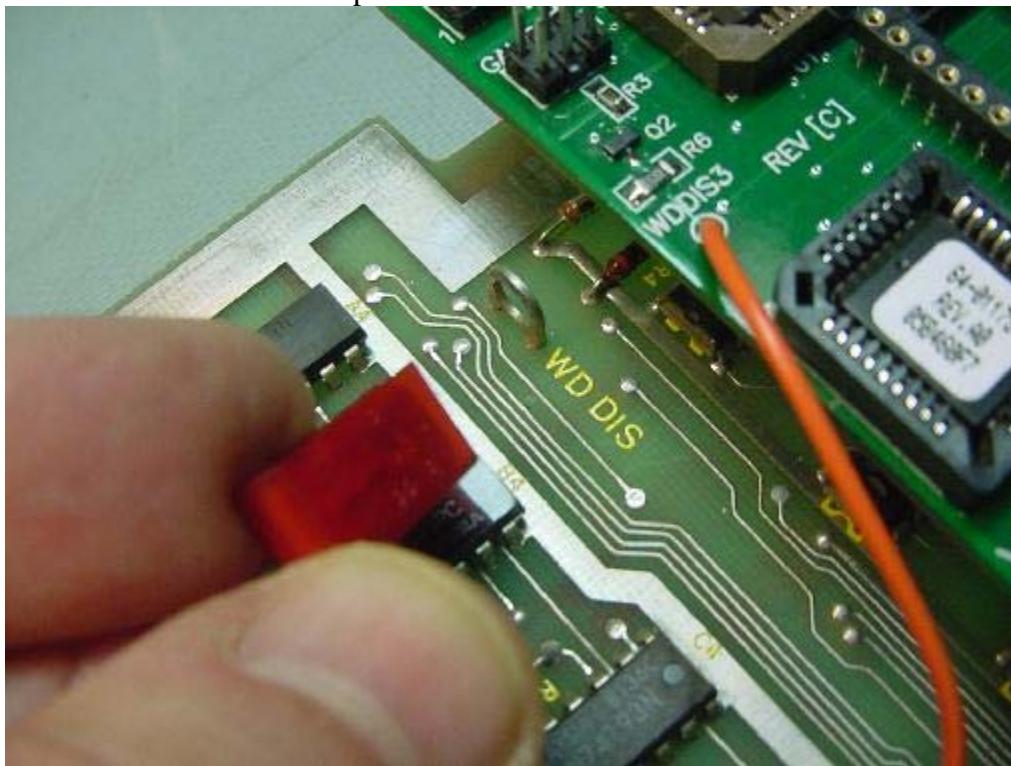
Insert the 6502 processor into the multigame main PWA board as shown below.



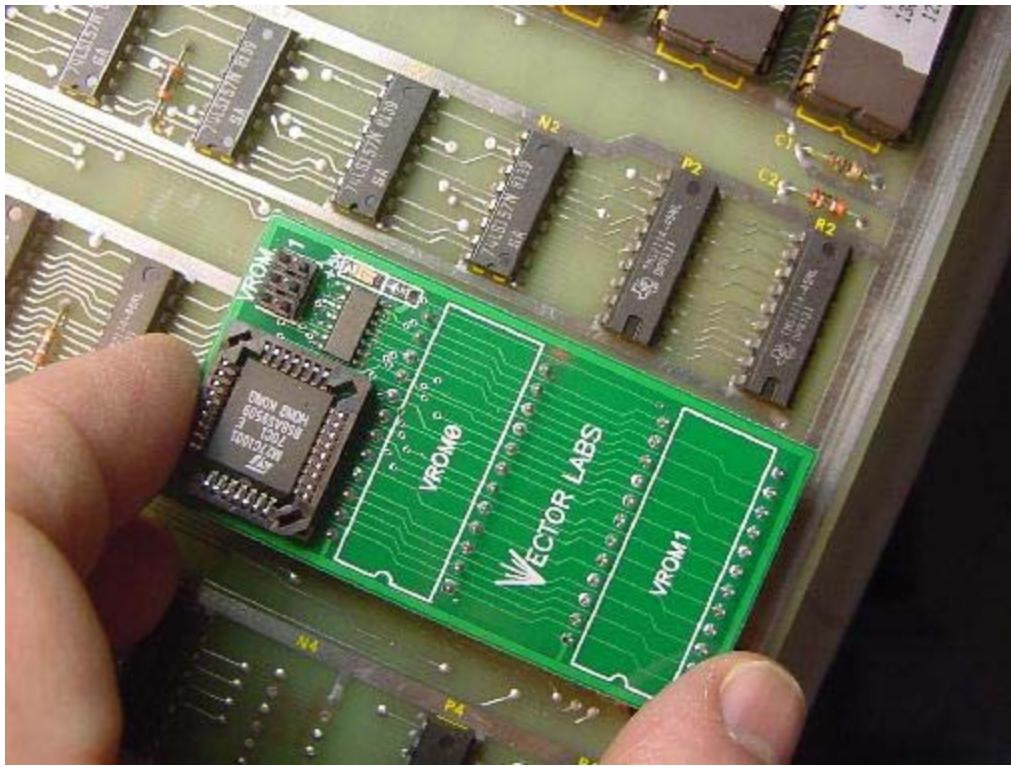
Install the multigame board into the Tempest main board 6502 socket as shown below. When pushing the board into the socket be sure to place your hand so it supports the Tempest PWB as well as the multigame board and squeeze them together.



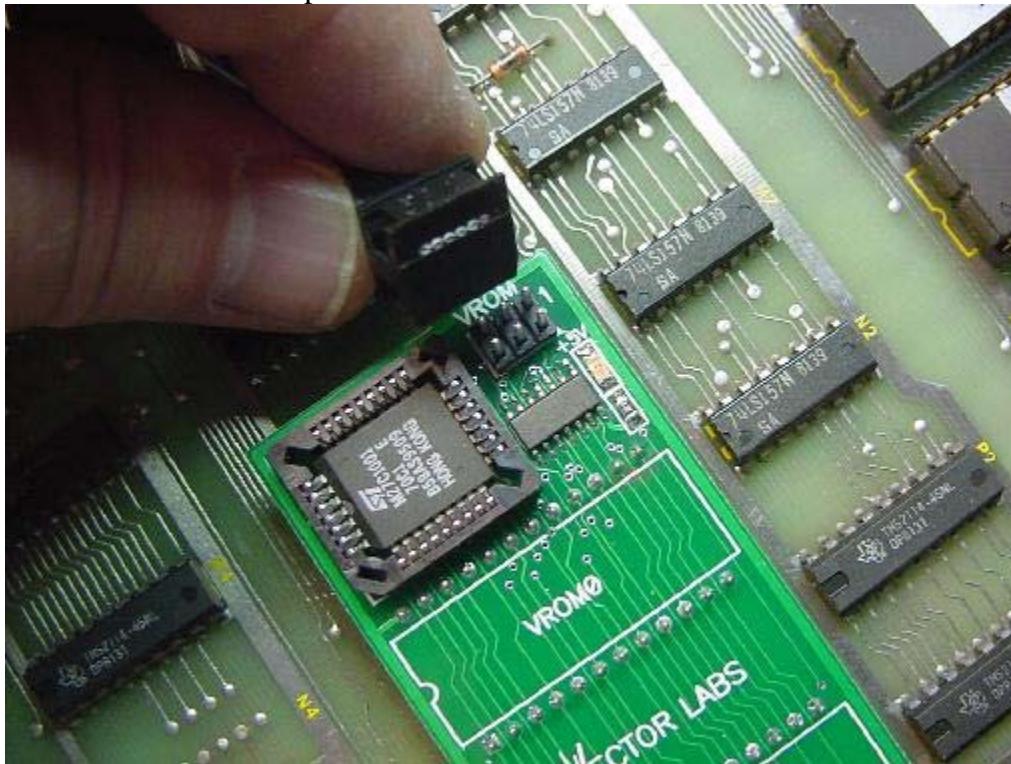
Now connect the orange wire with terminal onto the (Watch dog disable WDDIS) test point as shown below.



Now insert the Vector PWA into sockets N/P3 R3 as shown below.

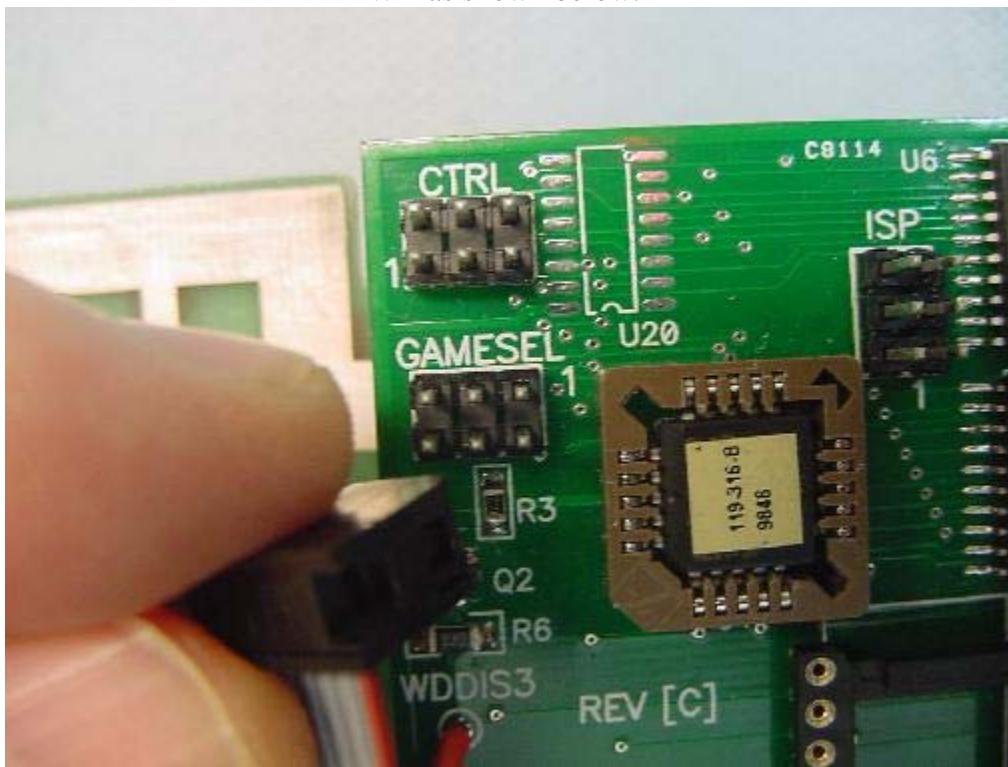


Now take the shorter 6 pin ribbon cable and connect to the vector PWA as shown.

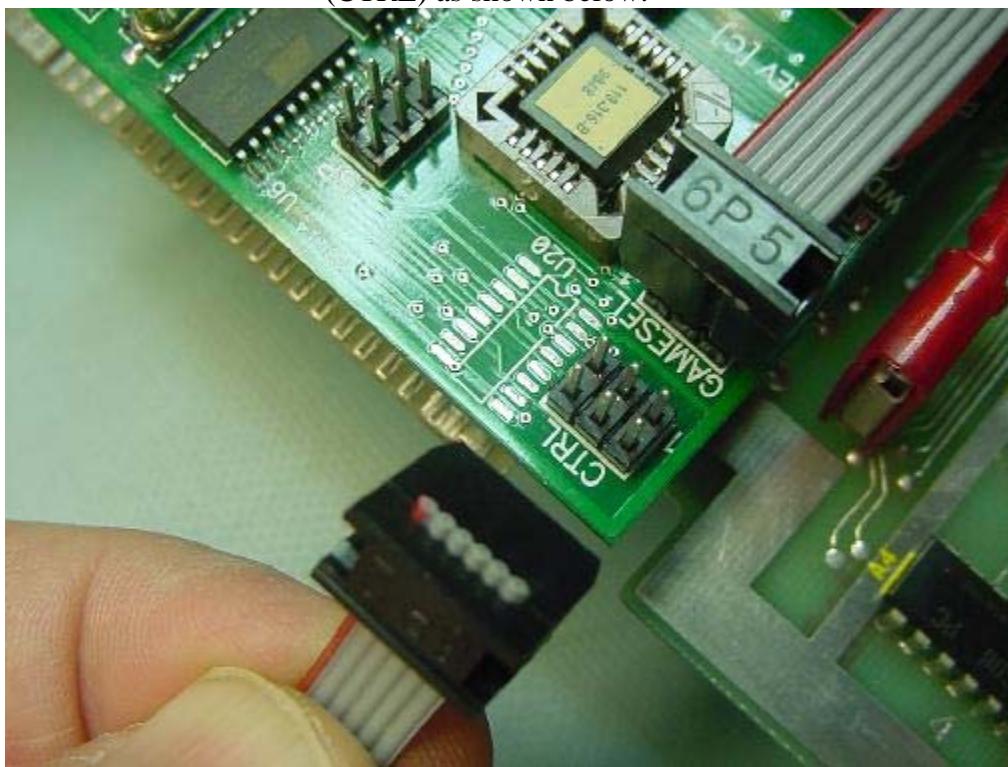


Plug the other end of the cable into the (GAMESEL) connector on the main

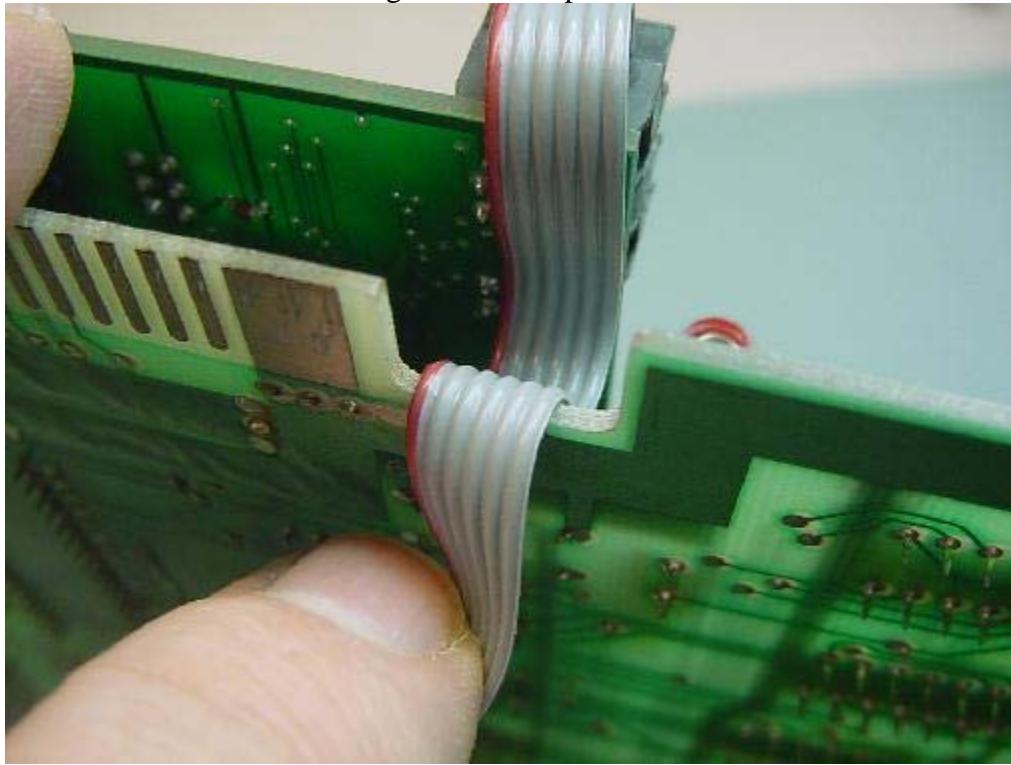
PWA as shown below.



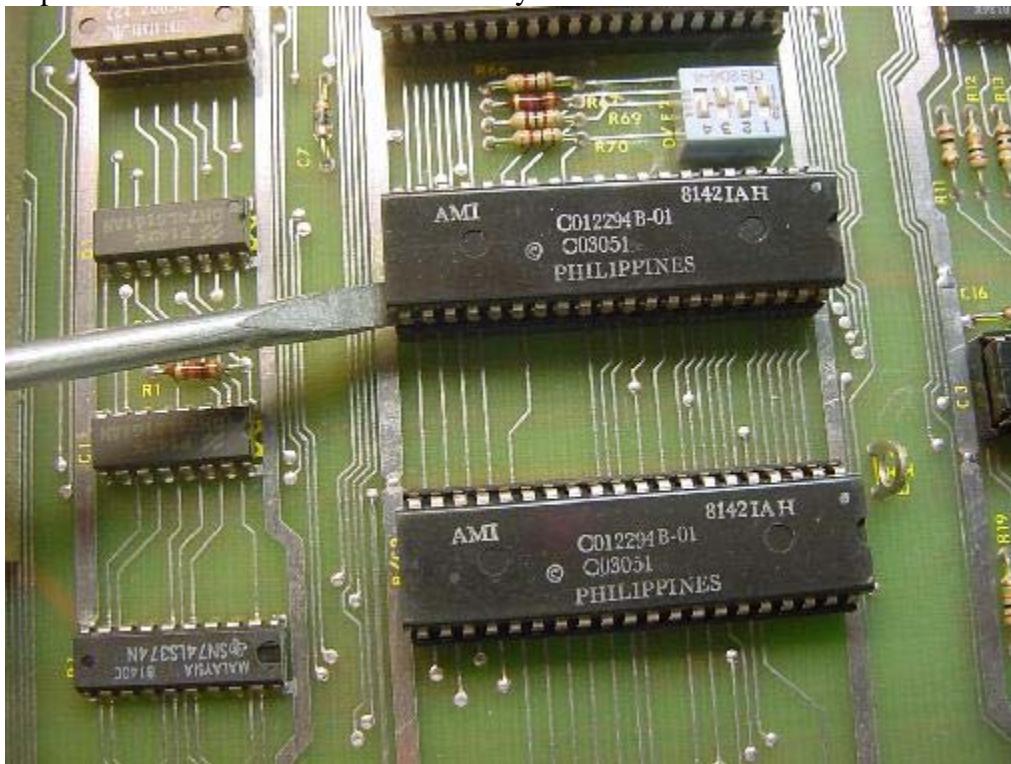
Now take the remaining 6 pin ribbon cable and connect to the connector labeled (CTRL) as shown below.



Route the cable around the edge of the Tempest PWB as shown below.



Flip the boardset over and remove Pokey labeled C/D2 as shown below.



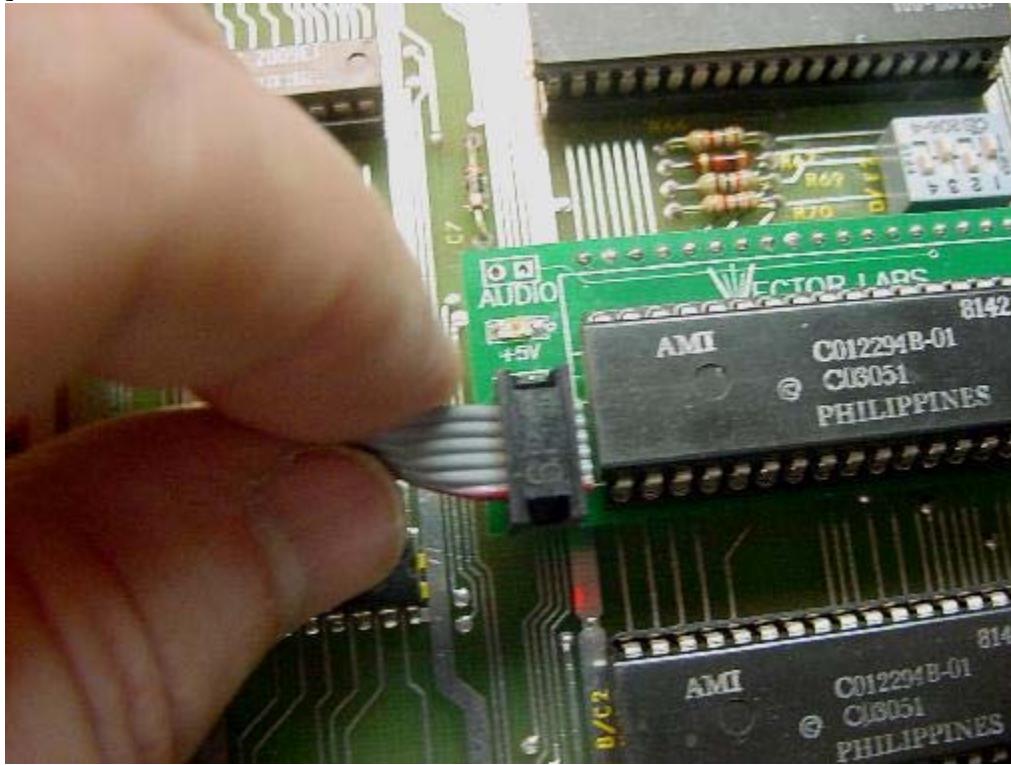
Re-install the Pokey into the Pokey PWA as shown below.



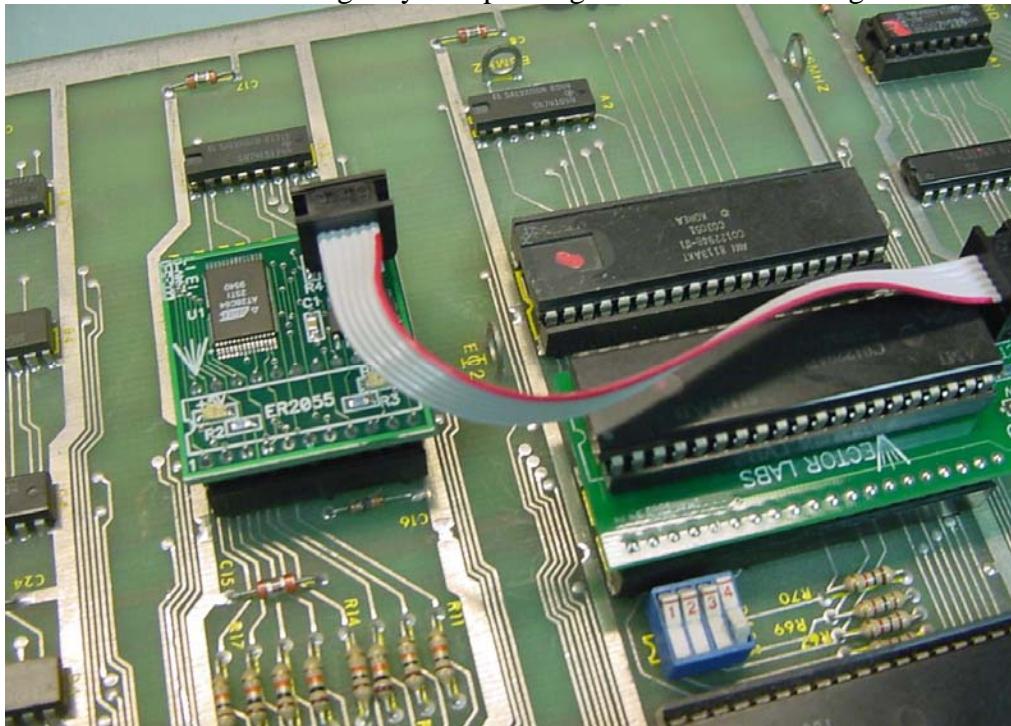
Now re-install the Pokey PWA back into socket C/D2 as shown below.



1 Connect the cable in to the connector as shown below.



Remove ER2055 from position C3 and replace as shown below.  
This new PCB will give you separate games saves for each game.



THE INSTALL IS NOW COMPLETE!!!

POWER UP AND OBSERVE THAT THE GAME  
IS RUNNING.

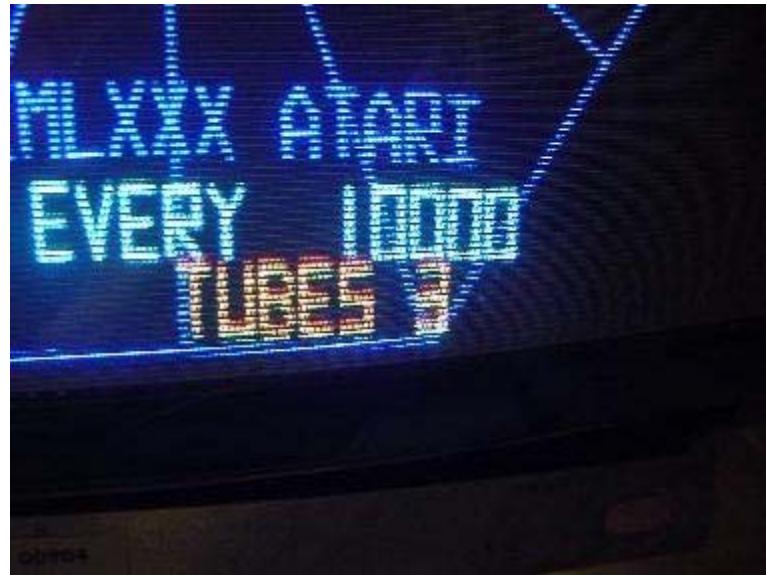
The game selections are:

1. Tempest Version 1
2. Tempest Version 2
3. Tempest Version 3
4. Vortex
5. Aliens
6. Tempest Tubes Version 1
7. Tempest Tubes Version 2
8. Tempest Tubes Version 3

Holding down the Player2 and then pressing the Player1 button cycles through the games in the order listed above. The last game selection is saved on power down.

The attract screen lets you know which game is selected as shown below.  
(NOTE this is only visible in free play mode)





\*\*Note during Aliens there is no splash screen indicating the game name, but on Vortex there is.

If having problems with Vortex or Aliens use these recommended dip switch settings

K10/K11	1-off	2-off	3-off	4-off				
L12	1-on	2-on	3-on	4-on	5-off	6-on	7-on	8-on
N13	1-on	2-off	3-off	4-on	5-on	6-on	7-off	8-on

IF YOU HAVE AND PROBLEMS OR SUGGESTIONS ON HOW TO IMPROVE THIS INSTALL GUIDE PLEASE CONTACT [VECTOR-LABS@TX.RR.COM](mailto:VECTOR-LABS@TX.RR.COM)

THANK YOU FOR YOUR PURCHASE