

AE APPLIED ENGINEERING®

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TransWarp IIGs 32K Cache Upgrade Installation Instructions

Follow the instructions below to install the 32K Cache into your TransWarp GS and you'll see an average speed improvement of 22%! You'll need a small flatblade screwdriver and an X-ACTO knife or a razor blade to complete the installation.

Installing the TWGs

If the TWGS is currently in your computer, remove it.

- 1. Turn off power to your computer.**
You do not need to unplug the computer.
- 2. Remove the cover of the computer.**
- 3. Touch the power supply case to remove any static from your body.**

This is important! Static electricity can damage both the TWGS and the motherboard.

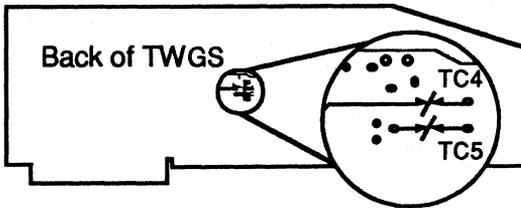
- 4. Remove the TWGS from the socket.**
You'll need to unplug the CPU cable from the motherboard and then remove the card from the slot. If necessary, use the screwdriver's blade to gently pry the CPU connector from its socket.
- 5. Remove the piggyback board.**

With the TWGS flat on the table, rock the piggyback board (the small board with four large chips) from left to right until it comes free. Use the screwdriver's blade to help you if rocking it alone does not work.

❖ **Warning:** Be careful not to cut any of the traces below the piggyback board with the blade of the screwdriver. You may want to place a small piece of rubber or cardboard between the piggyback and the TWGS.

- 6. Cut the bowtie traces at TC4 and TC5 on the back side of the TWGS.**

Use the X-ACTO knife or a flat razor blade to cut the trace in the middle of the two bowties. (Refer to picture following.)



Cut the Traces

❖ **Warning:** Do not cut any deeper than necessary to sever the trace or you will permanently damage the board and void all warranties.

7. Install the 32K cache piggyback onto the TWGS.

Before pushing the board into place, set the piggyback on top of the TWGS connectors and visually align the pins and connectors. Once they appear aligned, push the piggyback into the TWGS and seat it firmly.

8. Reinsert the TWGS into its slot.

Testing the TWGS

Once you've modified your board, test it by doing the following:

1. Boot your system as usual.

If you get a cache error or your system locks up, turn off your computer, remove the TWGS and cut the traces on back of the board a little deeper. Also, make sure that you properly aligned the piggyback's pins with the TWGS connectors.

2. Run the TWGS tests from the Control Panel

The cache test will take longer than it used to because there is more cache to test. If it fails the cache test, turn off your computer, remove the TWGS and cut the traces on back of the board a little deeper.

You'll immediately notice the extra speed the 32K Cache gives you. Enjoy it!