



# Tech Info Library

## ImageWriter Carriage Assembly stops or vibrates

Revised: 1/17/92  
Security: Everyone

ImageWriter Carriage Assembly stops or vibrates

=====  
This article last reviewed: 28 March 1988

PROBLEM DESCRIPTION #1: The ImageWriter printer carriage assembly freezes or grinds when connected to a Macintosh or Apple II Super Serial card.

BEFORE YOU START: Familiarize yourself with the ImageWriter Technical Procedures.

CAUSE: One or more of the carriage drive transistors is defective or one or more of the insulators is cracked or broken.

CURE: Remove the string of carriage transistors from the ImageWriter referencing the technical procedures if needed. Check to make sure that none of the insulators is missing. Each transistor should have a mylar insulator between it and the printer chassis. An insulator for the screw should also be present. Install new insulators if any are missing or cracked. Reassemble the printer and run the printer self-test.

In the event that all insulators are in good condition then replace the string of carriage transistors. ALWAYS REMEMBER TO REINSTALL ALL INSULATORS WHEN THE CARRIAGE TRANSISTORS ARE REPLACED. REMEMBER THAT THE PRINTER WILL EXHIBIT THE SAME SYMPTOMS IF THE INSULATORS ARE MISSING. (A TRANSISTOR SHORTED TO GROUND.)

Run an extensive self test on the printer. Sometimes the CPU board will cause transistor(s) to fail again. In the event that this occurs, replace the CPU board and the transistor assembly.

PROBLEM DESCRIPTION #2: The Carriage Assembly stops or vibrates when powered on and the printer IS NOT connected to a computer.

CAUSE: Occasionally, one of the transistor wires is cold-soldered to the transistor itself.

CURE: Replace the string of carriage transistors.

Copyright 1988, Apple Computer, Inc.

Tech Info Library Article Number:2024