



# TECHNICAL SERVICE BULLETIN

Date: 7/17/95

merit industries, inc.

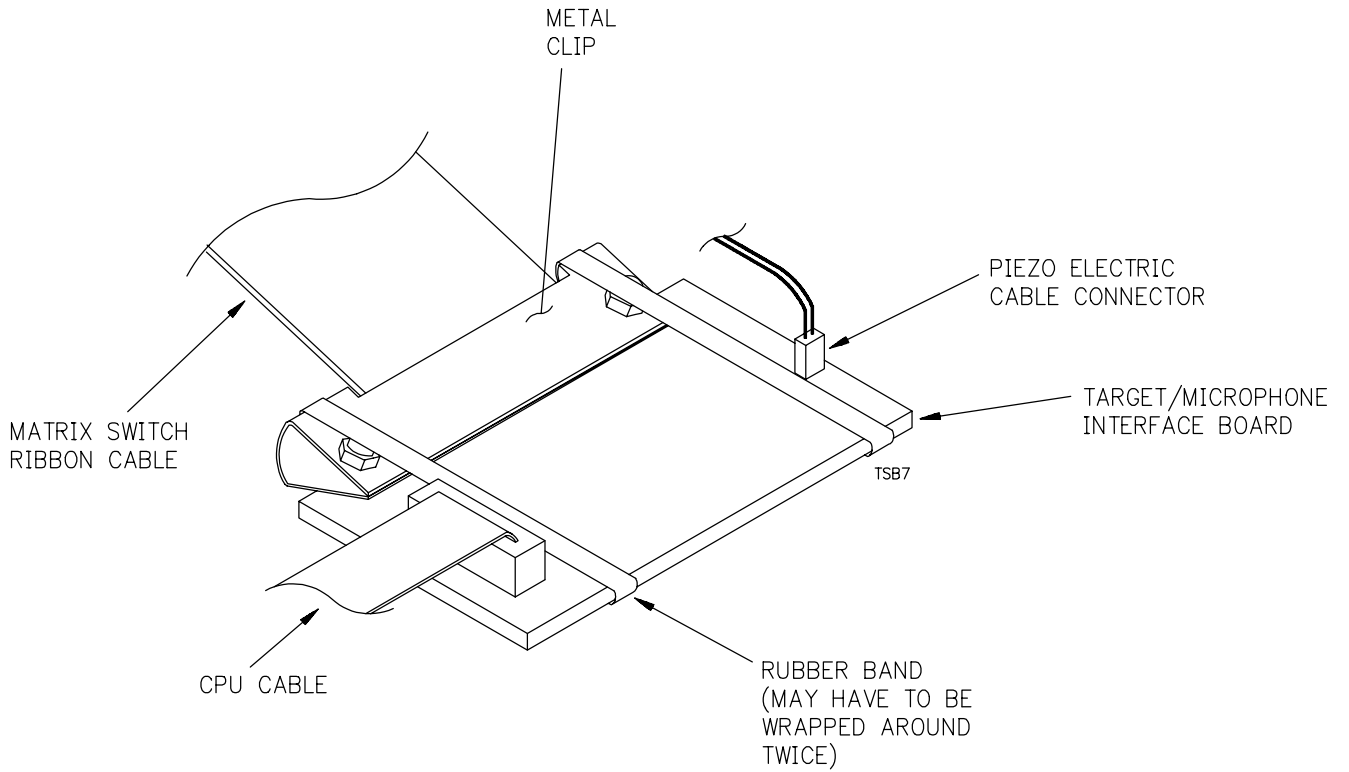
- Problem:** Target not scoring properly.
- Games affected:** All dart products.
- Symptoms:** Intermittent scoring.
- Cause A:** Bad connection from the matrix switch to the target/microphone interface board or from the microphone/target interface board to the CPU.
- Solution A:** Check the connection of the ribbon cable running from the target/microphone interface board and the CPU and secure the matrix switch cable connector to the target/microphone interface board using rubber bands.
- Cause B:** The existing clamp on the matrix switch cable connector is deforming the connector housing. (See Figure 2).
- Solution B** Replace the existing clamp with a new clamp of different design. To order a new clamp call Merit Customer Service, at 1-800-445-9353.

## Solution A

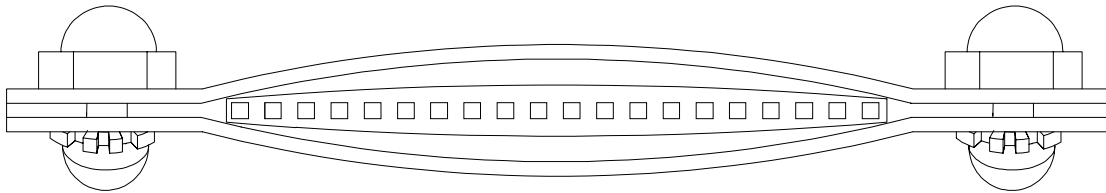
Check that the ribbon cable that runs from the target/microphone interface board to the CPU board is well-seated in its sockets.

Secure the matrix cable to the target/microphone interface board:

1. Open the target section to access the target/microphone interface board.
2. Disconnect from the target/microphone interface board, the Piezo electric sensor wires (the 2-pin connector) and the ribbon cable (that comes from the CPU).
3. Take the board off of the standoffs.
4. Place a rubber band around the board and the metal connector (one on each side), so that the connector is held firmly to the board. Be sure that the rubber bands rest on the metal of the connector and not against the cable itself. See Figure 1.
5. Put the board back on the standoffs and reconnect the cables to the board.



**Figure 1 - Securing Matrix Clamp to Microphone Board**



Overtightening of the matrix cable clamp makes the plastic connector housing deform, causing a loss of connection.

**Figure 2 - Example of "deformed" Clamp**