

Product Manual

Williams **System 3-6 LED Displays**

P/N **TPP-1079**

Replacement LED Displays.



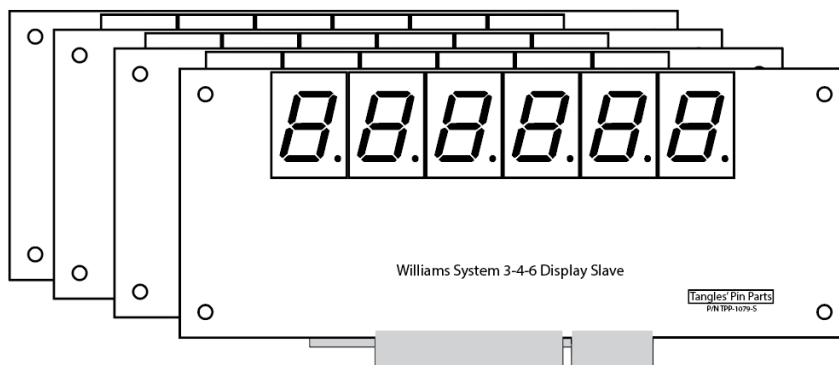
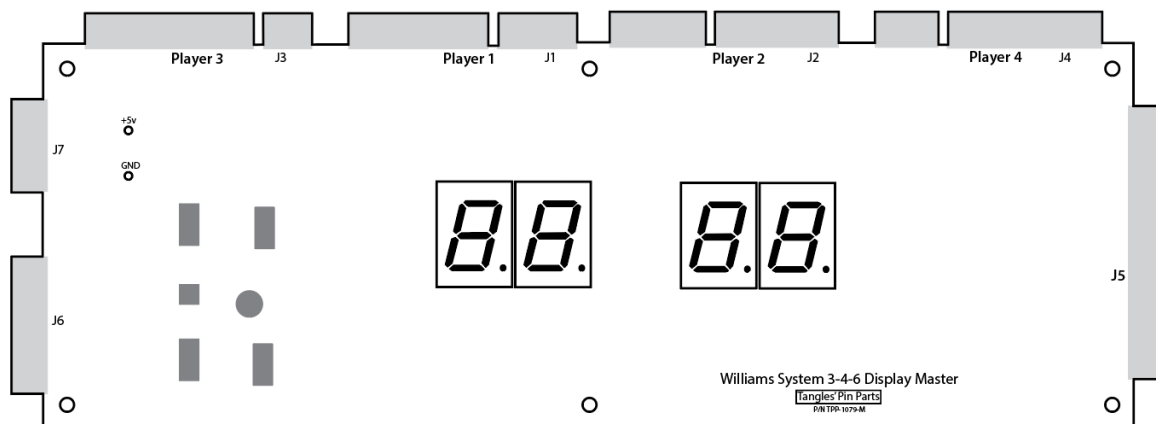
Tangles'
Pin Parts

Experience a new dimension in reliability on the old Williams machines.

PRODUCT DESCRIPTION

The TPP-1079 Display set replaces the plasma/glass MASTER and SLAVE display boards of the original Williams. Offering an all low-voltage LED display set, to improve the operational lifespan, reliability and improved look.

The TPP-1079 Display set comes with a replacement Master Control board and 4 LED slave boards. These parts are designed to be plug-and-play compatible with the original Williams edge-connector wiring harness.



INSTALLATION

The recommended installation steps are as follows:

- Power off and remove power from the Pinball machine
- Unscrew and unplug each of the glass plasma display boards.
- Plugin and install each replacement LED slave board.
- Unplug and unscrew the master display board.
- Plugin and attach the replacement TPP-1079 master display board.
- Remove the clear protective covers from the LEDs.
- Power on and test game operation.

FURTHER NOTES

This product powers the entire display assembly on the system's 5-volt power line. The standard Williams power supply is capable of supplying the required current without modification. It is however rather common for aged connectors to result in an under-performing power system. Tangles Pin Parts has thus developed the TPP-1080 System 3-6 Power Supply which utilises a switching power module with a full 5A capable 5-volt supply. In addition, the TPP-1080 has utilised an industry-preferred "MATE-N-LOK" style connector replacing the under-sized Wafer plugs on the original Williams board.

The TPP-1079 has test points for measuring the 5-volt supply. Note that this board is not particularly sensitive to the 5-volt supply voltage and will work reliably well below the tolerances of the rest of the game.

This LED display unit cannot be mixed and matched with the original Gas-Discharge displays.

As this upgraded board does not use the +100V and -100V display power, you may remove Fuse F1 from the power supply board. F1 is just to the left of the Wafer transformer Molex connectors.



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