

<b>Printronic Technical Bulletin</b>	Number 7-0005	Revision A
	Product Type P7000	Date 04/08
<b>Subject:</b> Introducing Flat Shuttle Assembly and Steel Platen For H-Series Printer	Originator MB Tan	Page 1 of 3

**Subject**

Introducing a new Flat Shuttle Assembly with the new Flat Hammerbank design, a new fret profile called Thin Hammerspring and Steel Platen for the P7000H series printers.

**Information**

The Flat Hammerbank design allows the Thin Hammerspring (Fret) to achieve true negative tip protrusion through the ribbon mask which prevents the hammer tips from dragging across the ribbon surface. This results in less ribbon fabric wear, less chance of ribbon snags and the build up of fabric “donuts” around the hammer tips. The shuttles will also stay cleaner and are less prone to ink migration. **The platen gap can also revert back to .011” which will provide higher hammer energy to increase hammer tip impact through multi-part forms.**

The Thin Hammerspring design improves clamping with new fret holding screws allows better tip alignment at the fret boundaries. These new hammersprings must be used with the Flat Hammerbank design and are not backwards compatible w/ the older P7000H shuttle types.

When replacing the Thin Hammerspring Assembly, a small alignment tool will be provided with each Hammerspring Field Kit to properly locate the hammer tips to their correct positions. These tools will be unique to each shuttle speed. When replacing 2 or more frets at a time, a Long Hammer Tip Alignment Tool will be required to ensure that all hammer tips are in the correct location to each other.

The shuttles that use the Flat Hammerbank design are completely interchangeable with the current shuttle types. The Hammerbank Cover/Ribbon Mask Assemblies are also compatible between the Flat Hammerbank and current shuttle types. Only the Hammerspring Assemblies remain unique.

The Flat Hammerbank designed P7000H printer will use the steel platen instead of e-platen (coated with a synthetic rubber cover). The older P7000H shuttle types **“MUST NOT”** be installed in H-Series printer with steel platen. To prevent this from happening, the **“Lock-Out Block”** (see fig 1) is being introduced on the newer chassis.

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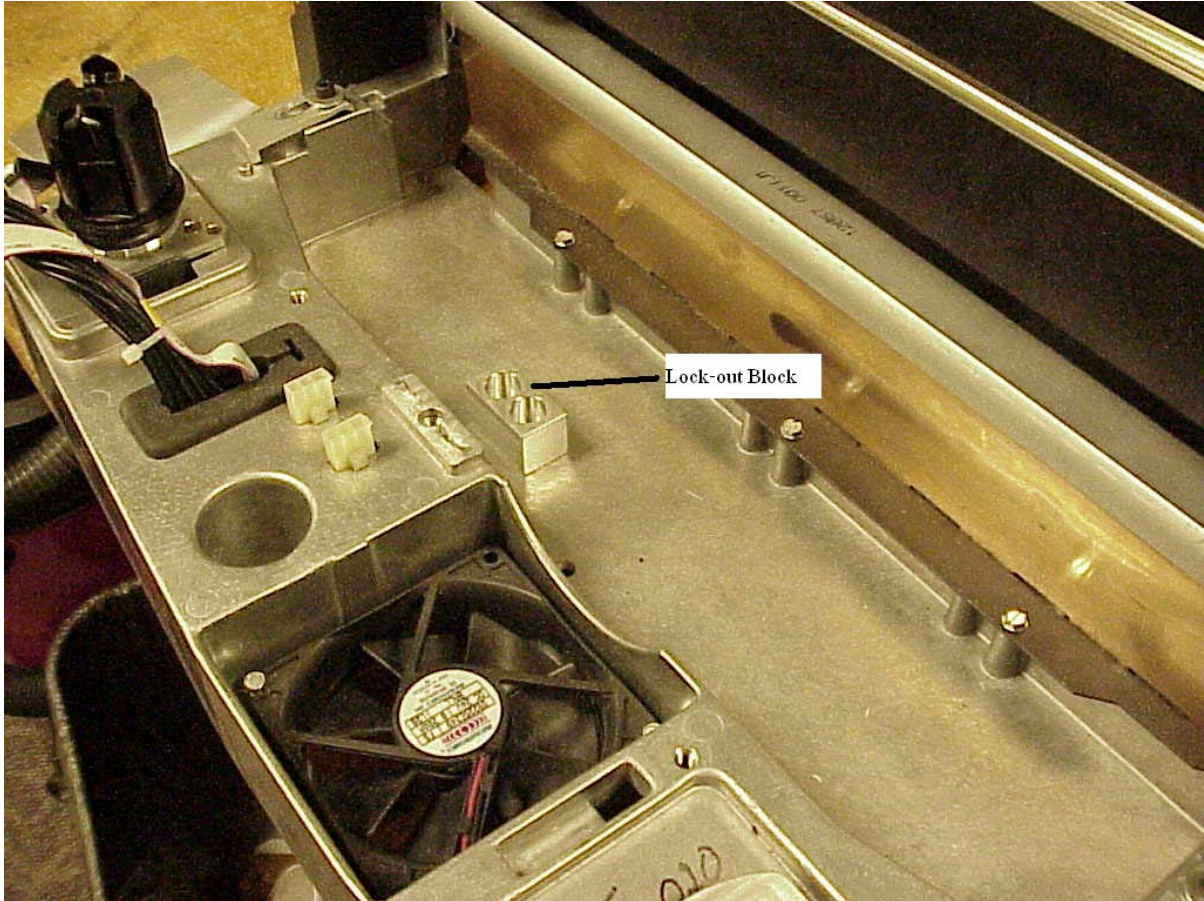


Figure 1

**How to Identify**

To identify the printer installed with Flat Shuttle Assembly, the printer serial number will have the “**F**” on the 3<sup>rd</sup> or 5<sup>th</sup> digit (eg. 5RFxxxxxxx or 5RV6Fxxxxxxx) to signify the printer is installed with Flat Shuttle Assembly.

To identify a Flat Hammerbank that may be installed in a printer, raise the lid on the printer and look down at the paper scale silk-screened in white lettering on the black Air-Shroud. In the upper right-hand corner, just above the word “Thickness”, look for **yellow paint** that has been applied to the counterbalance. This paint marking will be visible without removing any parts.

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**Spare Part Numbers**

Listed below are unique spare parts for both the Flat Hammerbank and Thin Hammerspring Assemblies including the long tip alignment tools required for replacing 2 or more hammerspring assemblies (frets) at a time.

Note: The Hammerbank Cover/Ribbon Mask Assemblies are both forwards and backwards compatible with the existing P7000H Shuttle Assemblies.

Shuttle Assembly, Flat, P7X02H	252748-901
Shuttle Assembly, Flat, P7X03H	252750-901
Shuttle Assembly, Flat, P7X05H	252752-901
Shuttle Assembly, Flat, P7X08H	252754-901

The following kits include both the nylon prying/alignment tool and a new short hammer tip alignment tool with instructions.

Only remove one hammerspring assy (fret) at a time when using this kit.

Hammerspring Assembly, Thin, P7X02H	252743-901
Hammerspring Assembly, Thin, P7X03H	252719-901
Hammerspring Assembly, Thin, P7X06H	252727-901
Hammerspring Assembly, Thin, P7X08H	252739-901

The kits listed below contain the “long” alignment tools with the nylon prying/alignment tool and instructions. These tools ARE required when replacing 2 or more hammerspring assemblies (frets) at a time on any shuttle.

Hammer Tip Alignment Tool Field Kit, P7X05-12/P7X02H	253648-901
Hammer Tip Alignment Tool Field Kit, P7X10/P7X03H	253649-901
Hammer Tip Alignment Tool Field Kit, P7X15/P7X06H	253650-901
Hammer Tip Alignment Tool Field Kit, P7X20/HD/P7X08H	253651-901

For additional information on both Flat Hammerbanks/Shuttles and Thin Hammersprings and use of the unique alignment tools, please refer to the P7000 Maintenance Manual – 177705-001, Rev D or higher.