

Nº 152 Service Bulletin



new

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TO: Parts & Service Managers

DATE: August 27, 2004

SUBJ: FYI: Stern Pinball Flipper Evolution

Updated 3 Flipper Parts:

We are constantly striving to improve the performance and reliability of our flippers and have made some minor, though important changes recently. Three parts evolved: 1. Plunger 2. Link 3. Switch Actuator & Spring Bracket

On the Plunger (1.), we have eliminated the 1/16" Flat (Ref. A) which was present on our flipper plungers for many years and have also increased the amount of material at the end of the plunger where the Link is attached by the Spiral Pin (Ref. B). You may have noticed on games since T3® Pinball* and new replacement Plungers* (530-5349-01) from Parts Sales, that the plunger length has been reduced (Ref. C). This was done to improve the players ability to make outside shots. The shorter plunger allows the flipper to have a longer stroke and more degrees of sweep. (*The new design was

old

introduced in May 2003).

The Plunger "Flipper" Link (2.), was modified in March 2002, to use one Metal Bushing per side (Ref. D & E) instead of the one older single bushing at the Crank Bar side (Ref. E) only (the older design had the spiral pin directly press fit into the plastic link, which had a negative effect on the long term durability of the linkage assembly).

The Switch Actuator & Spring Bracket (3.) had more material added on the side to "beef it up" (Ref. F & G).

Stroke/Angular Rotation Data: The new design gives us a stroke .059" longer, which translates into a larger flipper angular rotation (3.86+ degrees). Meaning, the new design gives the Flipper Bat a Total Rotation of **51.259°**. The prior plunger design only allowed for a Total Rotation of 47.395°. 4 small degrees makes a big difference!

Ordering Notes: All part numbers affected did not change to ensure older games will get the revised parts when ordered, if needed).

1. Plunger (530-5349-01) and 2. Link (545-5611-01) assembled, use

Pinball through Current): 500-5944-XX and 500-6543-XX (current). Note: Flipper Assemblies 500-6682-02 & -12 used on T3® Pinball, are identical to 500-6543-02 & -12 (can use either number).

Please phone or eMail with any questions or comments at the below numbers or address.

515-6304-03. 3. Switch Actuator & Spring Bracket (535-9038-00 Right or -01 Left) & White Nylon Switch Actuator (545-5612-00) riveted on, use 515-7257-00 Right or -01 Left). For 1., 2. & 3. assembled (with securing hardware), use 515-7203-00 Right or -01 Left). These sub-assemblies can be used on Flipper Assembly Families (Batman Forever

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