



SERVICE BULLETIN #8 – Install sleeves in flipper bushes

16th April 2019 - UPDATED 25th May 2019 - REV 2.0

***IMPORTANT NOTE: The Homepin flipper bushes have more clearance than other pinball flipper bushes. This DOES NOT cause any ill effect nor does it decrease the power of the flippers. Some people have complained about the "sloppy fit" and they suggest this causes poor flipper performance. This is not the case. If you are happy with your flippers we DO NOT recommend fitting these bushes.**

TAG. Sloppy or loose feeling flippers. Flipper bat sideways movement in the nylon bush seems excessive.

Application: All machines under serial number 100.

Remedy: While this has not caused any particular issues some customers have complained that the flipper “feel” is not right and they believe it is caused by the flipper shaft being a loose fit in the nylon bush. This modification installs stainless steel sleeves into the nylon bushes and makes the flipper shaft a machine fit in the bush.

NOTE: The insertion tool supplied is not stainless steel like the sleeves and so a small amount of light machine oil has been applied to prevent rust. This small amount of oil should be left inside the new bushes for lubrication. Wipe the excess oil from the outside of the bushes before inserting into the nylon.

(1) lift the playfield into the service position using the playfield prop. Using a 10mm spanner, loosen the retaining nuts for the flipper bats and take out both flipper bat assemblies.



(2) Push fit a stainless steel sleeve supplied into each blue nylon flipper bush from the top of the playfield, initially by hand. You should be able to easily push them in more than halfway. Take care as the ends are sharp!



(3) With between 3 and 10mm of the new sleeve still protruding above the flush surface of the bush, apply a couple of drops of super glue between the new metal sleeve and the plastic bush.

DO NOT apply the glue directly from the tube, put a few drops on the end of a toothpick or similar and use that to apply the glue. Do not do this while 'dangling' the tube of glue over the machine - keep it well clear of the playfield.

Do not delay to then perform step (4).

(4) Using the insertion tool supplied, use a small hammer to GENTLY tap the bush home. It should be installed all the way, the tool will 'bottom out' and rest flush with the top of the nylon bush.



(5) Look carefully on the under side of the bush to see if any swarf has been pushed out of the nylon bush. If so, remove it.



(5) Reinstall the flipper bats and tighten the 10mm locking nuts – **DO NOT** overtighten these nuts – they only need to be pinched up firmly. At rest, the flipper bats should align with the stainless guide rails and have about 2mm up and down movement when you have finished. Fit the included sticker under the playfield.



https://www.homepin.com/kits/flipper_bush.pdf

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