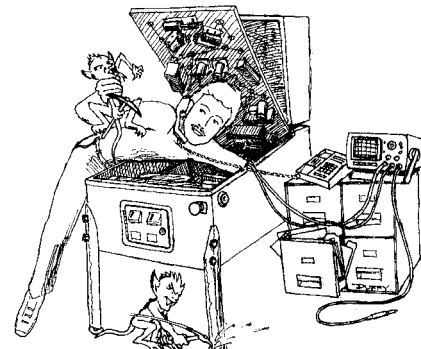




Nº 119 SERVICE BULLETIN



Joe Blackwell Director, Parts Sales & Technical Support	Susan Molitor Parts Sales Manager	Tashia Miles Customer Service Representative	Patty Schrapf Parts Stockroom Manager	Jim Thornton Technical Support Engineer	Chas Siddiqi Technical Support Engineer	Jay Alfer Technical Support Doc. Administrator
---	---	--	---	---	---	--

TO: Parts & Service Managers

DATE: November 8, 2000

SUBJ: **P.P.M.I. - Pinball Preventative Maintenance Inspection**

P . P . M . I .

① With the POWER OFF, clean the Pinball Machine inside and out (Remove miscellaneous parts from inside cabinet & vacuum).

② Visually check above and below the playfield for loose or broken parts and repair as necessary; in particular, inspect the Flipper Pawls, Links & Coil Stops. Check for loose connections at connectors in cable harnesses and cold solder joints on coils & switches.

③ Electrical Check: Plug game into a grounded outlet (prevent overloading outlets with many games); Check for proper operation through Diagnostics, Switch, Lamp & Coil Tests. Playfield Switch Adjustments should be performed now: Check all playfield switches with a ball in Switch Test; Check all tilts and slam switches. Replace all burnt out lamps.

④ Clean Playfield & Ramps (recommend Novus #2 Plastic Polish). Replace worn or dirty rubbers and worn pinballs (check pinballs for rough surface or corrosion).

⑤ Check Coin Door (with door closed insert coins to verify proper operation).

⑥ Play the Pinball Game: Check for satisfactory operation.

⑦ Clean both sides of the Playfield Glass prior to reinstalling.

PREDICTIVE MAINTENANCE (Concerns Items considered Wear Parts & having them already in stock)

Inspect Flipper Parts (every 2500 plays, see Audit 26 or 150,000 Flipper Hits, see Audits 52 & 53). Also, inspect Lamps and Rubbers at the same time. Check all moving parts and make any adjustments (motors, shafts, flipper bats, etc.).

Stock additional parts: SPI - Flipper Rebuild Kits (PNs: 500-6307-00 Right, 500-6307-10 Left) ; #44, #555, #89 Bulbs (common).

Rubber Parts: Flippers, Posts, Slingshots & a various collection of Rubber Rings (common). Refer to the Pink Section in the Game Service Manual for Game Specific Information.

FIRST TIME SET-UP

① Install in proper area (level floor) at location.

② Ensure a Service Game Manual is present and kept inside the game (contact the distributor or mfg. for a replacement if necessary).

③ Level the game and set the playfield pitch at 6° to 7° using an inclinometer on playfield. New games are designed with a 6.5° pitch with all four Leg Levelers turned all the way in/out assuming the floor is level.

④ Electrical Check: Plug into a grounded outlet and check for proper operation through Diagnostics, Switch, Lamp & Coil Tests.

Continued Next Page

• 2020 Janice Avenue • Melrose Park, IL 60160 • Tel 708-345-7700 or Toll-Free (USA/Canada) 1-800-542-5377 • Fax 708-345-7889 •

FIRST TIME SET-UP CONTINUED

⑤ Check Coin Door (with door closed insert coins to verify proper operation).

⑥ Play the Pinball Game: Check for satisfactory operation and adjust volume.

CHECK-UP

① Check Game Audits (in particular, replay percentage and ball time). These Audits are especially useful to the Tech in determining if there are game problems or adjustments required.

Audit	Result / Finding
Flipper Hits (Audit 52 & 53)	More than 150,000 closely inspect Coil Stop, Pawl, Link & Plunger Assembly.
Replay Percentage (Audit 19)	Ideally should be at 20-25%
Extra Ball Percentage (Audit 15)	Ideally should be at 20-25%
Ball Search (Audit 35)	If a high number, this is an indication of Ball Trap(s) on the playfield.
Ball Time (Audit 3)	Ideally should be at 50-60 seconds.
Multiball (various audits in Game Specific)	Ideally should be at 50% of Total Plays (Audit 26)

② Visually inspect above & below the playfield. Clean the Playfield. Visually check rubbers, lamps, and playfield condition.

③ Check Ball Shooter (Plunger) Tip (if used), Flipper Rubbers and Pinballs. Replace if worn.

④ Check game for proper pitch and level.

⑤ Check Coin Door (with door closed insert coins to verify proper operation).

⑥ Play the Pinball Game: Check for satisfactory operation and adjust volume.

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

• 2020 Janice Avenue • Melrose Park, IL 60160 • Tel 708-345-7700 or Toll-Free (USA/Canada) 1-800-542-5377 • Fax 708-345-7889 •