

## Task list for restoration of Pinball Machine - Cabinet

Pinball name: \_\_\_\_\_

Date: \_\_\_\_\_

### Cabinet

- Chrome plated legs are washed and polished with Autosol. None chrome plated legs are cleaned from rust and painted with matching original color (metallic silver paint).

Note: \_\_\_\_\_

- Cleaning and polishing of leg bolts or replaced if damaged.

Note: \_\_\_\_\_

- Felt pad applied between leg and cabinet.

Note: \_\_\_\_\_

- Install new leg levelers if applicable.

Note: \_\_\_\_\_

- Cleaning the Cabinet Interior (vacuuming), before vacuuming look for any loose screw, bolts mm.

Note: \_\_\_\_\_

- Masking off and repainting the black interior edges of cabinet.

Note: \_\_\_\_\_

- Lightly clean outside of cabinet with Novus 2 on a Scotchbrite pad.

Note: \_\_\_\_\_

- Polish cabinet with MP52 furniture polish to bring out original luster.

Note: \_\_\_\_\_

- Decide if cabinet paint worn, damage will be touched up where needed or left alone to retain patina.

Note: \_\_\_\_\_

- Cabinet chrome rails (side rails) cleaned with q-tips soaked in Acetone (channels for playfield glass). Polish side rails with Autosol.

Note: \_\_\_\_\_

- Clean or replace all of the cabinet buttons; start button, flipper buttons.

Note: \_\_\_\_\_

- Disassemble coin door and individual pieces polished with Autosol.

Note: \_\_\_\_\_

- Coin mechanism cleaned and checked, change of lamps from #44 to #47 whether #44 is broken or not.

Note: \_\_\_\_\_

- Price plate coin entry is cleaned with Novus.

Note: \_\_\_\_\_

- Lockbar cleaned and polished with Autosol, install new foam seal.

Note: \_\_\_\_\_

- Ball shooter parts polished with Autosol.

Note: \_\_\_\_\_

- Rebuild ball shooter with new and correct springs, shooter spring, outer spring, nylon sleeve, shooter rubber tip etc.

Note: \_\_\_\_\_

- Check and clean flipper switches, adjust if necessary.

Note: \_\_\_\_\_

#### (Referred to EM - Electro-Mechanical)

- Adjustment and cleaning of leaf switches contact pints on score motor and relays, steppers, units on mechanism panel in cabinet by using a "Flexstone" file or sand paper of fine grit and clean them with a q-tip soaked in Acetone. Alternative a business card can be used to remove grit left over from Flexstone. **NO LUBRICATION OF SWITCHES ALLOWED.**

Note: \_\_\_\_\_

- Verify score motors switch stacks against wiring diagram open / closed.

Note: \_\_\_\_\_

- If loose wires – resolder according to wiring diagram (schematics).

Note: \_\_\_\_\_

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Note: \_\_\_\_\_

The task list highlights the most basic tasks you should go through the restoration of a pinball machine to fix any problem, and there are certainly many more tasks to illustrate. For further inspiration to restore a pinball machine please visit [www.pleasureandpinball.se](http://www.pleasureandpinball.se) On average I spend about 80-100 hours of loving care and much TLC – Tender, Love and Care at a complete restoration of a pinball machine. This is tasks I have performed at the restoration of pinball machines and can be used to help at your own risk. Remember that the restoration of pinball machine is at your own responsibility!

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## Task list for restoration of Pinball Machine - Backbox / Playfield

Pinball name: \_\_\_\_\_

Date: \_\_\_\_\_

### Backbox

- All fuses verified for correct value/type (replace if any question).

Note: \_\_\_\_\_

- Remove batteries from the CPU board and install a remote battery holder on the inside of the backbox door to avoid future leakage.

Note: \_\_\_\_\_

- Repair board connectors if needed. Check for burnt components on the boards, replace if necessary.

Note: \_\_\_\_\_

- Clean and inspect score displays, check digits and segments, for dot-matrix check columns and rows.

Note: \_\_\_\_\_

- Install new lamps from #44 to #47 whether #44 is broken or not.

Note: \_\_\_\_\_

### (Referred to EM - Electro-Mechanical)

- Disassemble credit unit, score relays and clean with Acetone and a Scotchbrite pad, replace coil sleeves, clean and polish coil plungers. Verify relays switches against wiring diagram open / closed. Clean the drum unit (score wheels) and ensure proper operation.

Note: \_\_\_\_\_

- Clean all jacks with q-tip soaked in Acetone.

Note: \_\_\_\_\_

- Check for any loose wires – resolder according to wiring diagram (schematics).

Note: \_\_\_\_\_

### Playfield

- Remove all playfield parts and clean (ultrasonic cleaner effectively removes dirt). Order replacement parts as needed.

Note: \_\_\_\_\_

- All metal posts, metal screws, ball guides, wire forms are cleaned and polished with Autosol.

Note: \_\_\_\_\_

- Cleaning of playfield with Novus and CP-100 - playfield cleaner, CP-100 can be used to clean plastics, plastic posts and rubber rings.

Note: \_\_\_\_\_

- Replace worn Mylar if necessary.

Note: \_\_\_\_\_

- Repair any damage as needed in playfield and do paint touch up if necessary, clear coat playfield if possible.

Note: \_\_\_\_\_

- Apply a coat of automotive carnuba wax and buff the playfield.

Note: \_\_\_\_\_

- Clean and adjust every contact (switch, target) for optimum performance.

Note: \_\_\_\_\_

- Rebuild all flippers with new coils and flipper bushings; install flipper rebuild kits if necessary.

Note: \_\_\_\_\_

- Rebuild pop bumpers with new bumper body, skirt, base to increase the visual appearance.

Note: \_\_\_\_\_

- Install new coil sleeves for all solenoids.

Note: \_\_\_\_\_

- Clean flippers and wipe with Novus before replacing flipper rubber.

Note: \_\_\_\_\_

- Clean / polish all playfield inserts, adjust playfield inserts flush to playfield.

Note: \_\_\_\_\_

- Replace all rubbers; Rubber ring kits are available for most pinball.

Note: \_\_\_\_\_

- Install the new lamps from #44 to #47 whether #44 is broken or not.

Note: \_\_\_\_\_

- Clean the Apron and adjust any parts as needed. Install Apron playfield glass protector if missing (rubber bumper grommet - Apron).

Note: \_\_\_\_\_

- Lift the playfield in the cabinet and check that the playfield is correct situated.

Note: \_\_\_\_\_

- Check everything visually a couple of times for fit and finish, adjust as needed.

Note: \_\_\_\_\_

- New pinballs - Carbon Steel Pinball 1-1/16 inch.

Note: \_\_\_\_\_

- Clean the playfield glass front and back. New playfield glass if needed, always use tempered glass.

Note: \_\_\_\_\_

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