**Yearly Piano Service** MI 10/12/2019

Materials: 320 sandpaper, mover’s blanket (or two), Fantastik mix, bar soap, Teflon powder, Prolube, Milk (5:1 Prolube/Teflon), VSProFelt, key bushing cauls (typically .147 and .136 or .129), long bristle brush, brass-bristle (suede) brush, pedal rubber boots, 0000 steel wool, standard toolkit, optional: paint marker

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

Piano: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Serial no: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Day 1/morning**

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| Step |  | Step |  |
| 1. | **Furniture, plate: inspect, fix** Key slip loose/catching keys? Lid hinges (loose screws?); prop hinge Music rack; fallboard  Legs Optional: plate screws  Optional: clean the case | 8. | **Soft pedal: inspect and adjust** Lost motion (remove)  Noises, creaks 2/3 hammer shift? |
| 2. | **Vacuum, brush, clean** Plate  Tuning pin area Soundboard  Dampers | 9. | **Keys: inspect** Key level  Sharps height Key dip  Front bushing play Balance bushing play  Pulley keys Aftertouch  Damper timing Damper upstop rail  Front rail knocking noises Balance rail bedding (hammers dancing?) |
| 3. | **Strings** Lube string bearings with Prolube using felt muteOptional:  Space strings  Tighten coils Massage with brass bar  Tap lightly | 10. | **Action: inspect** Sound and feel  Hammer alignment to strings Does rest cleat need to be shimmed? Letoff, drop  Backchecking distance Springs  Blow distance Aftertouch  Optional: touchweight |
| 4. | **Dampp Chaser: inspect, service** Plugged in? Hardware tight  Noises Operation (lights on humidifier units) Replace pads, clean as needed | 11. | **Pull out action** Remove key slip, fallboard, cheek blocks Are cheek block screws tight? Are bracket screws tight?Slide action onto your lap |
| 5. | **Pedals, trapwork: inspect and lube** Side to side pedal motion  Lyre posts firm? Noises Pedal rod boots, rods too short, pitman punchings OK? Trapwork: leathers, tighten blocks Pedal timing (adjust if needed) Travel limits ok? (adjust later if needed) Lube with bar soap: trapwork leathers Lube with Prolube: pedal rod guide rail bushings, boots | 12. | **Tighten, realign** Hammers: tighten shank screws, realign (no rubbing!)  Optional: travel, square as neededTurn the action around Wippens: tighten screws, realign  Optional: travel as needed, cut knuckles if rubbing Sostenuto: quick adjust per earlier observations, lightly tighten screwsSet action aside |
| 6. | **Dampers: inspect and lube** Heads aligned, felts OK?  Guide rail bushings loose? Dampers sluggish?  Damper wires rough? Lube bushings/wires with milk Check upstop rail: vertical play of dampers with sharp key and damper pedal depressed Clicks, oinks, sound bleeds  Damper timing to pedal Note damper timing to keys:#1: \_\_\_\_\_\_ \_\_\_\_\_\_ #40: \_\_\_\_\_\_ \_\_\_\_\_\_ #88: \_\_\_\_\_\_ | 13. | **Clean, lube inside** Vacuum key bed, underlevers 320-sand key bed, frame shift slot, frame right side, rails underside Clean with steel wool: return spring and shift leverVacuum Lube with bar soap: key frame, end pins, return spring, key bed, key frame rest cleat cloth, shift slot in key frame, trapwork as needed |
| 7. | **Sostenuto: inspect** Test, note needed adjustments for each bracket | 14. | **Key frame rest cleat** Shim with 2 or 3 strips of file folder material if most hammers are too far left. |

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| 15. | **Damper upstop (liberty) rail**  Adjust as needed | 19. | **Lube knuckles** Brush with brass bristle brush Rub in Teflon powder with glove or felt block, vacuum |
| 16. | **Bed key frame** End pins tight?  Glides protrude? Adjust glides: no noise when knocked on (including with both pedals pressed).  | 20. | **Wippen heels** Flip top stack upside down Brush with brass bristle brush Rub in Teflon powder, vacuum; or apply milk OVERNIGHT OPTIONAL: Apply VSProFelt where dented |
| 17. | **Remove top stack** Put action on blanket on lid Disconnect monkey; lube with milk Repair stripped screw holes if necessary Fix loose hammer heads and shank center pins Put top stack on back of lid; put keyboard on lid or action cavity | 21. | **Keyboard**Vacuum keys  Loose backchecks? Apply milk onto capstans Apply Teflon powder on key end felts, vacuumRemove keys; vacuum key frame Optional: clean key pins with steel wool Lube key pins w milk using bent pipe cleaner (dry 15 minutes) OVERNIGHT OPTIONAL: VSProFelt bushings if loose (put in cauls overnight) |
| 18. |  **Reshape hammers** if needed, vacuum | 22. | **Overnight**Let dry if VSProfelt applied  |

**Day 2/afternoon**

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| Step |  | Step |  |
| 23. | **Keyboard**Remove cauls if used; return keys on frame Ream balance holes to taper fore-aft (keys must drop slowly when lifted from front *and* back) Ease bushings  Turn front key pins if bushing are loose | 30. | **Sostenuto** Test with cheek blocks loosely in place, adjust as needed |
| 24. | **Reinstall top stack on key frame, engage monkey, reinsert action, tighten cheek blocks** | 31. | **Soft pedal** Adjust for 2/3 shift, tweak for best tone |
| 25. | **Regulation** Letoff  Drop Blow distance for aftertouch on pilot notes | 32. | **Tune, voice** Tune if needed Voice, harsh notes first |
| 26. | **Remove cheek blocks** and action as needed | 33. | **Reassemble**Key upstop railInsert action; install fallboard, cheek blocks, tighten screwsCheck for front rail slappingMusic rack |
| 27. | **Regulation continues** Set hammer line between pilot notes Backchecks: align if badly off and not worn Backchecking distance  Rep springs Jack to knuckle  Rep lever (jack not binding) Correct hammer line as needed | 34. | **Play piano and check:** Damper pedal, sostenuto, soft pedal (key frame must return without binding), front rail noises |
| 29. | **Optional: Adjust aftertouch** Adjust key dip for consistent aftertouch | 35. | **Clean, touch up** Case, keytops as needed Optional:  Touch up finish as appropriate |