

MusicMedic.com

Keywork Checklist

Saxophone:

Init:

Pad Cups:

- Remove old pads from pad cups
- Inspect:
 - pad cup levelness using a bench block
 - indented spines on pad cups
 - padcup roundness
- Level pad cups using rawhide mallet and bench block
- Round out pad cups
- remove old shellac/glue from pad cups
- Select dry fitting pads for top stack, bottom stack, G# and bis.

Key Fitting:

- Inspect keys for gross imperfections (hinge tube cracks, excessive swedging, mechanical restoration, etc.)
- Check keys for:
 - straight rods and tubes
 - hinge tubes and backbars parallel on compound keys
 - level and flat pad cups
 - excessive padcup damage

Dry Fit:

- Install old rods for top and bottom stacks
- Check keys for any lost motion
- Adjust key heights to accept new materials and remove lost motion (use old rods for any timing bends)
 - Top Stack: B, A, and G
 - Bottom Stack: F, E, and D
- Open up C and F# keys to allow for 'one bend' timing with materials (minus low D)
- Align key feet with backbar to correct any gross alignment issues
- Check timing of stacks with materials
- Check springs:
 - fit in post
 - mismatched, damaged, or broken springs
 - springs that are too short or too long
 - **Be sure to change/replace any springs before facing posts/swedging keys**
- Remove all keys

- Check all rods for condition
 - thread length and condition
 - shoulder engagement with post
 - slot spreading, cracking, wear, and centering
 - wear along rod length and total tolerance end to end
 - rod total length – hangs out of post – buried in post
 - kinks, wobbles, gouges in rod
- Check rod fit in posts
 - loose through posts
 - thread angle alignment
 - Does rod deflect when fully tightened?
 - Slot end post scraped/reamed out
 - thread condition and size in final post
- Replace all questionable rods
 - Over size rods in heavily worn keys/posts?
- **Face All Posts**
- Fit Posts to Rods
- Swab out hinge tubes
- Check for excessive wear in hinge tubes (esp, compound keys, smaller diameter hinge tubes, neck octave keys and Bb table spatula)
- Sleeve
- Check and correct any alignment issues with the C# and F# keys
- Check for any binding in stack keys
- Fit keys for sleeves or extensions as necessary

Rods:

- Swedge and fit keys to rods
 - compound keys that fit between posts
 - keys next to compound keys/posts
 - independent keys (keys between two posts)
 - Check that all contacting surfaces are faced and true
- Fit large diameter rodded keys
 - Fit key and face all key ends
 - deburr inside and outside
 - swab to remove metal
 - check for and eliminate any binding or friction in hinge tubes
- Fit small diameter rodded keys
 - Fit key and face all key ends
 - deburr inside and outside
 - swab to remove metal
 - check for and eliminate any binding or friction in hinge tubes

Pivots

- Clean out ends of pivot screw keys
- Check for wear in pivot sockets

- Check pivot screw condition (bent tips, thread condition, slot condition)
- Degrease pivot screws
- Fit pivot screws between posts
 - extensions for short keys
 - filling and ream damaged or worn ends
 - Make sure you have correct shape pivot reamer for pivot screw
- Remove all pivot screws and install in a labeled cardboard sheet
- Final polish/wipe down of hinge rods
 - cut screw slots in hinge rods
 - deburr slot
- Clean rollers and rods of old grease and lube
 - replace roller rods as necessary
 - replace or fabricate rollers as necessary
- Clean and check fitting of tilting Bb spatula
- Place all rods in rod block