Installing WNG Composite Shanks & Flanges

For Video

1. Introduction

a. Design



- b. Pre-configured Models
- c. Custom models
- 2. Tools & Supplies
 - a. List of required tools
 - b. Optional tools



- c. Supplies
- d. Tools & Supplies available from WNG.
- 3. Selecting proper hammer shanks
 - a. Using Sample Parts Kit



- b. Match shanks from piano
 - i. Pre-configured Models



- c. Custom Models
 - i. Select proper flange



ii. Select knuckle diameter



iii. Select desired shank leverage



4. Procedures

a. Remove old hammer shanks



- b. Clean rails & hardware as necessary
 - i. Use bead blaster if available
- c. Check shank center height to known specification if available
 - i. Use gage to measure



- ii. Reset as necessary
- d. Install WNG shanks on rail
 - i. Red for bass



- ii. White for tenor
- iii. Blue for treble
- e. Place end shanks on each section as samples



- i. Square samples to rail
- f. Install the rest of the shanks
 - i. Square shanks to rail as you go
- g. Travel the shanks
 - i. Travel sample shanks square to bench top.



- 1. Travel every 5th shank
- ii. Travel the rest of the shanks
 - 1. Use a dowel under a section of shanks



- 2. Raise shanks
- 3. Check for side to side movement
- h. Prepare hammers
 - i. Bore hammers
 - 1. Bore treble hammers
 - 2. Bore bass & tenor hammers
 - ii. Taper hammers
 - iii. Cut hammer tails to correct length
 - 1. WNG Jig available
 - iv. Arc & square hammers
 - 1. WNG Jig available
- i. Glue on hammers
 - i. WNG glue is recommended



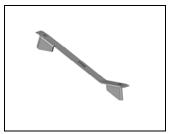
- ii. Glue on trials
 - 1. Two methods
 - a. 1, 72, 88



- b. End hammers in each section
- 2. Mark centerline on samples
- 3. Mark position of trials
 - a. Determine proper strike point for each trial



i. WNG strike gage available



- b. Check for proper clearance to key slip
- 4. Glue trials



- a. Place action in piano to confirm proper strike points
- b. Correct as necessary
- iii. Glue the rest of the hammers
 - 1. Use strait edge between trials
 - 2. Check tilt of angled hammers for proper note to note clearance

j. Trim Shanks

i. Use right angle die grinder to trim shanks flush with hammer heads





k. Burn Hammer Shanks

- i. Heat hammer shanks to correct errors
 - 1. Use a heat gun (never open flame)



- ii. Rotate shank to straighten hammers as necessary
- iii. Hold until cool