

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 straight 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