

QUIET KEYS™ INSTALLATION INSTRUCTIONS

1. ASSEMBLY:

Attach MOUNTING BAR (Pin Collar) to each end of TOP RAIL and CABLE CLAMP to TOP RAIL using CARRIAGE BOLTS and WING NUTS as shown (Fig. 1).

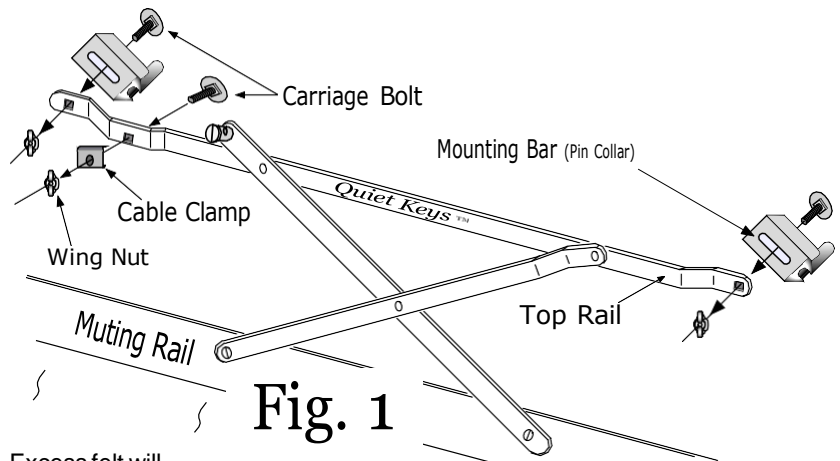


Fig. 1

Excess felt will be trimmed away later.

2. PLACING IN PIANO:

Lift piano lid; take out front panel, exposing ACTION and TUNING PINS.

Holding QUIET KEYS up to TUNING PINS level and just below piano's top edge, center MUTING RAIL over HAMMERS and push PIN COLLAR end of Mounting Bars over any reachable Tuning Pins (Fig. 2). Tighten attaching Wing Nuts.

For large upright pianos Top Rail should be about 5 inches (12.5 cm) above level of hammers (Fig. 4).

If necessary, for a tight fit of Mounting Bar on Tuning Pin, pull away from tuning pin and carefully squeeze the Pin Collar end with a wire cutter or pliers. Reposition on tuning pin.

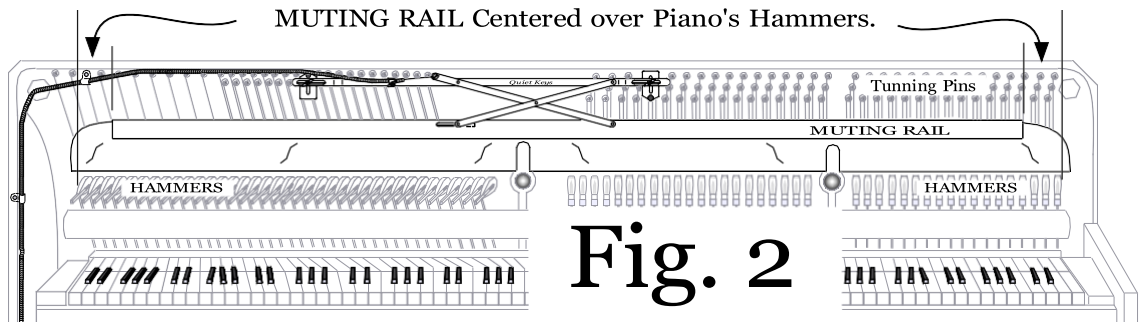


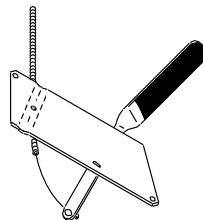
Fig. 2

3. ON-OFF CABLE INSTALLATION:

Mount ON-OFF CONTROL under key-bed using two STAR HEAD SCREWS. Run cable above BOTTOM PANEL and up piano's side board using white plastic CABLE CLASPS with Small Hole and Star Head Screws to mount cable. Cable Clasp with Large Hole is provided to hold Cable to tuning pins if needed. Gently curve cable at corners. Avoid sharp bends. (Fig. 4).

TO TRIM CABLE FIRST!

Push On-Off Control handle wide open exposing INNER CORE WIRE at the control.



With enough Cable to easily reach WIRE STOP on Quiet Keys, trim excess by cutting through both the Outer Winding and its Inner Core Wire. Since the cable is of very high quality it may be difficult to cut. Notch cable with cutters and bend back and forth at notch to break.

Position the Inner Core Wire just through PILOT HOLE, in the Wire Stop. Firmly tighten Wire Stop Screw (Fig. 3).

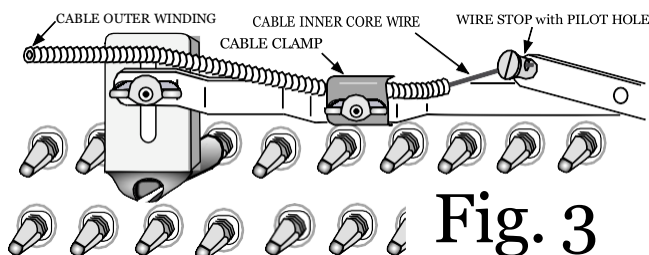


Fig. 3

With the Muting Rail "UP", place Cable under Cable Clamp so that its Outer Windings reach half way to the Wire Stop (Fig. 3). Tighten Cable Clamp Wing Nut. The On-Off Control should now move the Muting Rail Up and Down.

4. ON-OFF ADJUSTMENTS:

The Muting Rail needs about 2 inches (5 cm) of up and down travel to assure the Muting Material will drop between the hammers and strings as well as pull up clearly out of the way. Repositioning the Cable under the Cable Clamp will affect the amount of Muting Rail Travel. With the end of the cable's Outer Winding placed closer to the Wire Stop, travel will increase. With end of the cable's Outer Windings placed closer to the Cable Clamp, travel will decrease. Firmly tighten Wing Nut at Cable Clamp.

5. TRIM FELT:

Cut slot(s) in felt just wide enough to clear ACTION MOUNTING BOLTS. With Muting Rail down gently crease the felt into strings at top of ACTION DAMPERS and draw a line along crease. Raise Muting Rail and trim felt just above level established by line all the way to ends. Trim excess felt at ends, leaving enough to mute end hammers (Fig. 4).

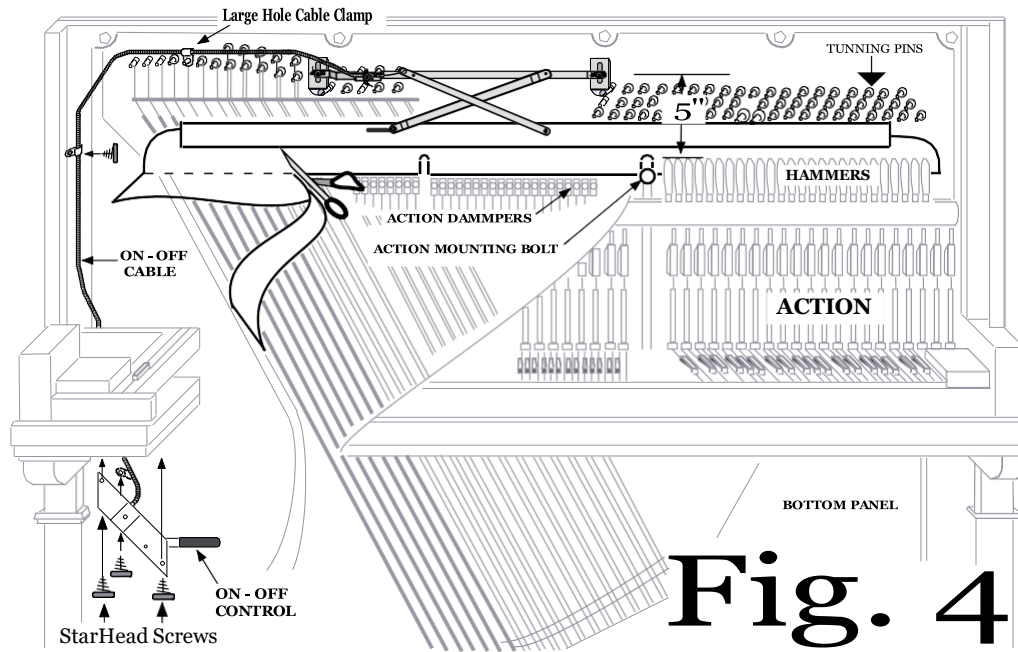
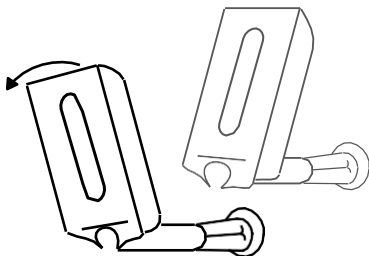


Fig. 4

The Quiet Keys unit can be tipped by bending the Mounting Bars so the Muting Rail Felt is positioned close to or touching the Strings when down or in the "on" position.



With the On-Off Lever pushed in the Muting Felt should stay above the level of the Hammers allowing for normal function. With the lever pulled out the Muting Felt should drop between the Hammers and Strings of the piano, in close proximity to or touching the strings, muting their volume. Check that metal parts of the Quiet Keys assembly do not touch the piano at any point other than the mounting pins. Check that Pin Collars are securely over pins and that the Wing Nuts are tight.

Reassemble Piano