

## **Advice on how to produce a good touch on the Bluthner Action in a Bluthner Grand**

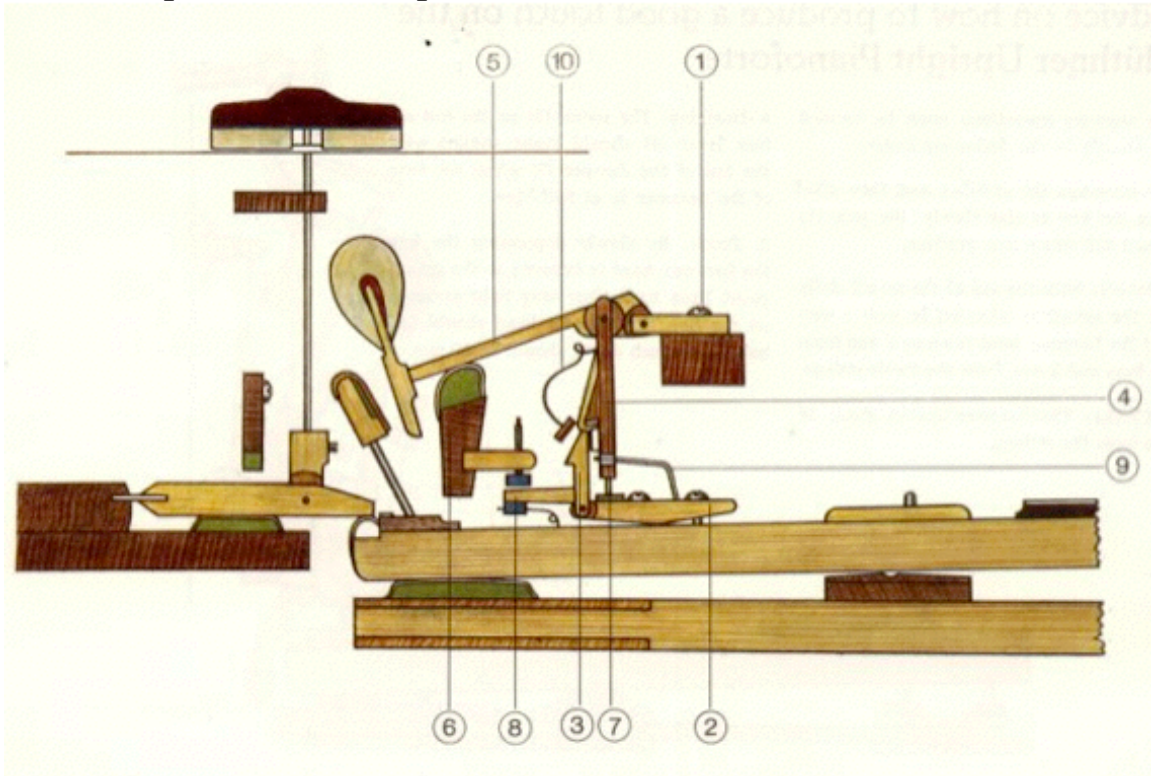
The necessary operations must be carried out strictly in the following order.

The fitting of the BLUTHNER action is based on a touch depth of 9 mm and on a hammer blow of 45 mm.

1. The hammer flange screws should be tightened.  
The hammer heads must then be spaced exactly on the strings.
2. Setting up. The jack must be so adjusted, by means of the carriage which is screwed on to the key, that it drops quite easily under the nose of the abstract. The guide pin of the abstract must be straight and vertical
3. Set off. The hammers should release 1,3 mm from the steel strings and half string thickness from the bass strings? The set off screws for this adjustment are situated on the hammer rest rail.
4. Touch. Contrary to the ERARD action, the touch is made quite firm. The key is depressed slowly on to the touch baize, after which the hammer should continue to rise 1 mm, till it releases, so that it checks only on striking the key strongly. (No aftertouch).
5. Checks. The checks should be adjusted at a slightly greater angle than on the ERARD action. The check point is 24 mm above the normal hammer tail line.
6. Drop. The right-angled repetition spring which controls the drop should have a thickness of 0,85 mm in treble, 0,95 mm in the middle range and 1 mm in the bass; the guide pin of the abstract must move easily in the bridge leathers so that the abstract drops of its own weight. The repetition springs must move freely in the abstract felt clips and by pressure of either side of the right?angle spring, the drop is controlled. The hammer head should release 3 mm from the steel strings.
- 7, It is now necessary again to check the touch throughout.
8. The dampers should lift when the keys are half depressed.
9. The damper shade-rail must be adjusted in such a way that when depressing the sharps, is very little play.

10. The coiled spring which is attached to the abstract should in the normal position of the key not rest on the jack, but remain about 3 mm from it. A even touch is of the greatest importance.

Bluthner patented action photo



1. Hammer flange screw
2. Whippen
3. Jack
4. Abstract
5. Hammer shank
6. Hammer rest rail
7. Abstract pin
8. Set off dolly
9. Abstract spring
10. Jack spring