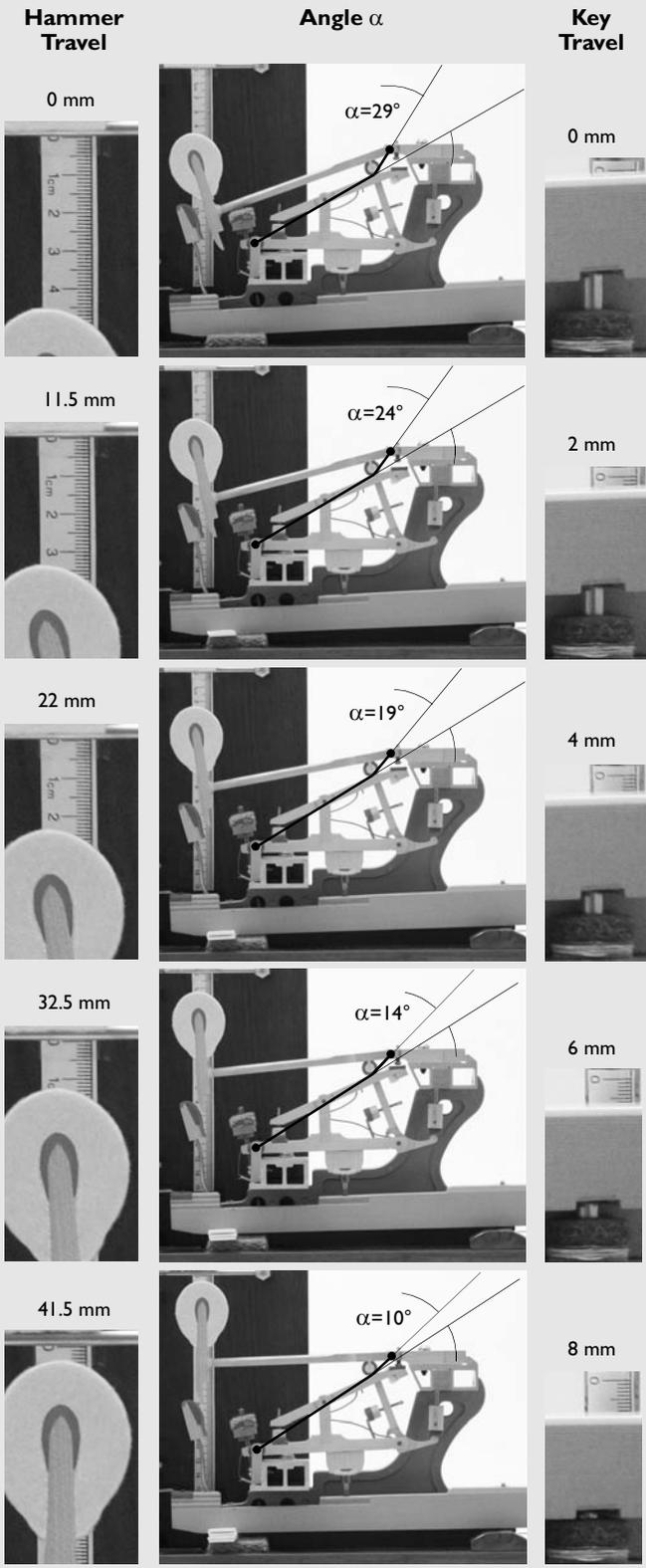


Action Leverage, Hammer Travel, and Key Travel



This sequence shows that the hammer slows toward let off if the key is depressed at a constant speed—for each 2 mm of key travel (see photographs in the “Key Travel” column), the hammer travels a slightly shorter distance (“Hammer Travel” column). This is a result of the reduction in action leverage, which the table “Action Leverage Results” below illustrates. This table compares the results of calculating action leverage from hammer and key travel, and by measuring the parts. “?” indicates that the leverage can’t be calculated without at least some key and hammer travel. Table 6 on page 287 lists the relevant measurements of the depicted action.

Action Leverage Results
for action in Figure 192 on page 78

| Key Travel | Angle α | Comparing Hammer and Key Travel | | Parts Measured Leverage |
|------------|----------------|---------------------------------|----------|-------------------------|
| | | Hammer Travel | Leverage | |
| 0 mm | 29° | 0.0 mm | ? | 6.0 |
| 2 mm | 24° | 11.5 mm | 5.75 | 5.78 |
| 4 mm | 19° | 22.0 mm | 5.50 | 5.58 |
| 6 mm | 14° | 32.5 mm | 5.42 | 5.44 |
| 8 mm | 10° | 41.5 mm | 5.19 | 5.36 |

