



Entering Data into the Software Program



“The foundation of all piano regulation is key leveling”.

This is the second article in a series that explores each step in using the QuicKey Leveler to level keys and set dip. To read previous articles please [click here](#) and download a PDF copy of 2011 Newsletter Articles.

Once the QuicKey Leveler apparatus is set up on the piano and properly positioned readings are taken for the position of all keys (naturals and sharps) in the rest and dip position. The readings are entered into the software program. [Click here](#) and download Software Screen Shots to see a larger image.

The software program is a MICROSOFT EXCEL application that can be used by both PC and MAC users. It was specifically written for use with the QuicKey Leveler rail assembly. When the application is opened the technician goes to the Technician Worksheet (shown here). Tabs at the bottom of screen allow the technician to move to various screens that include; Instructions, Tech Worksheet, Tech Analysis, Tech Report and Customer Report.

The Technician’s and the customer’s general information are entered and the file is saved like any other spreadsheet with a unique name. This information appears in printable reports for the technician and customer.

The technician chooses whether to work in inches or millimeters and enters the measured position data of the naturals and sharps in the columns on the right.

Pertinent key data is entered and includes:

- Height of the sharps above the naturals (as given by the manufacturer)
- Distance from the front rail pin to the balance rail pin for both sharps and naturals (as measured)
- Distance from the balance rail pin to the action for both sets (as measured)
- Key dip for the naturals
- Key Dip for the sharps

QuicKey Leveler™
Automatic Data Entry
Technician Worksheet

Phase fill in Data in White and Gray Fields. Data in White Area Below Must Be Filled in to Obtain Proper Results

January 11, 2010

Prepared by:

Enter Organization Name Here
Enter Tech Name Here
Enter Organization Address Here
Enter Organization Phone Here
Enter Organization Email/Website Here

Prepared for:

Enter Customer Name Here
Enter Piano Name/Location/Nickname Here
Enter Customer Address Here
Enter Customer Phone Number Here

General Analysis Information

Units (Enter I for inches, M for Millimeters):	I
Black Key Height above White Keys:	0.500
Distance Front Rail Pin to Balance Rail Pin	White: 8.750 Black: 6.375
Distance Balance Rail Pin to Action	7.000 7.250
Amount of Key Dip	0.400 0.375

Arc Height: 0.020

To allow for shim reduction at balance rail type A to disallow type D: A

If entering "D" type percent allowable for shim reduction (Example 5, 10, 25): 5

To allow for automatic data correction type A to disallow type D: A

(Note it is not common to disallow auto data correction. See Instructions)

KEY	REST	DIP
A0	0.000	-0.383
B0	-0.001	-0.397
C1	0.001	-0.404
D1	0.000	-0.415
E1	-0.001	-0.398
F1	-0.003	-0.394
G1	-0.001	-0.399
A1	0.006	-0.390
B1	0.003	-0.394
C2	0.002	-0.418
D2	0.010	-0.393
E2	0.014	-0.369
F2	0.016	-0.382
G2	0.019	-0.394
A2	0.012	-0.393
B2	0.019	-0.396
C3	0.015	-0.394
D3	0.015	-0.395
E3	0.025	-0.397
F3	0.024	-0.395
G3	0.023	-0.396
A3	0.025	-0.390
B3	0.028	-0.366
MID C	0.027	-0.355
D4	0.027	-0.359
E4	0.029	-0.367
F4	0.039	-0.365
G4	0.031	-0.379
A4	0.024	-0.380
B4	0.023	-0.375
C5	0.022	-0.370
D5	0.016	-0.387
E5	0.016	-0.386
F5	0.017	-0.385
G5	0.017	-0.383
A5	0.018	-0.375
B5	0.017	-0.376
C6	0.016	-0.369
D6	0.017	-0.383
E6	0.016	-0.369
F6	0.013	-0.369
G6	0.009	-0.380
A6	0.013	-0.385
B6	0.006	-0.388
C7	0.006	-0.389
D7	0.012	-0.379
E7	0.007	-0.392
F7	0.004	-0.398
G7	0.007	-0.406
A7	0.006	-0.412
B7	0.004	-0.406
C8	0.006	-0.419

KEY	REST	DIP
A0#	-0.009	-0.327
C1#	-0.006	-0.332
D1#	-0.008	-0.333
F1#	0.005	-0.334
G1#	-0.004	-0.340
A1#	-0.006	-0.324
C2#	0.004	-0.323
D2#	0.010	-0.331
F2#	0.020	-0.338
G2#	0.018	-0.333
A2#	0.017	-0.335
C3#	0.031	-0.329
D3#	0.024	-0.329
F3#	0.027	-0.321
G3#	0.027	-0.328
A3#	0.020	-0.314
C4#	0.023	-0.312
D4#	0.022	-0.300
F4#	0.026	-0.297
G4#	0.024	-0.296
A4#	0.020	-0.297
C5#	0.022	-0.294
D5#	0.008	-0.322
F5#	0.008	-0.313
G5#	0.020	-0.297
A5#	0.012	-0.315
C6#	0.004	-0.324
D6#	0.003	-0.320
F6#	0.003	-0.322
G6#	0.001	-0.326
A6#	-0.010	-0.334
C7#	-0.007	-0.366
D7#	-0.009	-0.327
F7#	-0.017	-0.352
G7#	-0.016	-0.351
A7#	-0.017	-0.355

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The Arc Height or Keyboard crown is entered and the technician chooses whether or not removal of punchings will be allowed and, if so, by what percent. If no crown is desired “0.000” is entered for the arc height. The QuicKey Leveler software program automatically adjusts for end to end high misalignment due to set up. This feature can be disabled for those badly tilted keyboards that need straightening due to previous improper leveling.

After the data is entered in the worksheet the technician can analyze the condition of the keyboard using the Tech Analysis page. Next time we will look at the how the data is used to plan the job before any keys are lifted.

To learn more about the QuicKey Leveler Software [click here](#).