

# EZ-ANCII VERSION 1.05 MANUAL UPDATE

26 July 2002

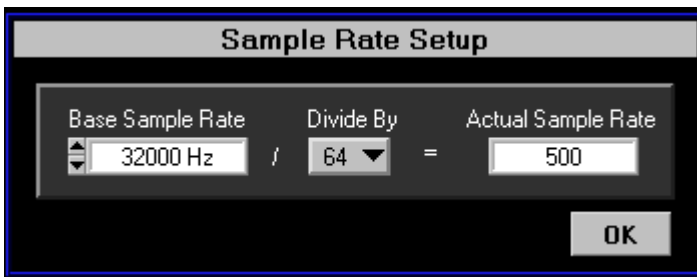
1. P.26, after line 14, insert a new paragraph:

If the reference signal is used as the modeling signal (this is a new function in version 1.05 and can be found in the Cancellation Path ID Setup panel), there are two ways to do the cancellation path identification. The first is to have the ID button on. By doing this, the controller sends the reference signal to all output channels, and does the identification for transfer functions between all control outputs and all error inputs simultaneously. The second is to do the cancellation path identification in a round-robin way, which sends the reference signal to one control output channel at a time. For each channel the modeling time is about 5 seconds. To do this, click the GO button in the Cancellation Path ID Setup panel with ANC ON; the status of the ID button does not effect this situation.

2. P.31, add the following few sentences to the end of the paragraph on Active Control With On-Line Modeling.

Note that when the reference signal is selected as the modeling signal (this is a new function in version 1.05 and can be found in the Cancellation Path ID Setup panel), the control filter adaptation ALG and cancellation path ID cannot be turned on simultaneously. Normally, do the cancellation path modeling first and then do the active control with the control filter adaptation ALG ON.

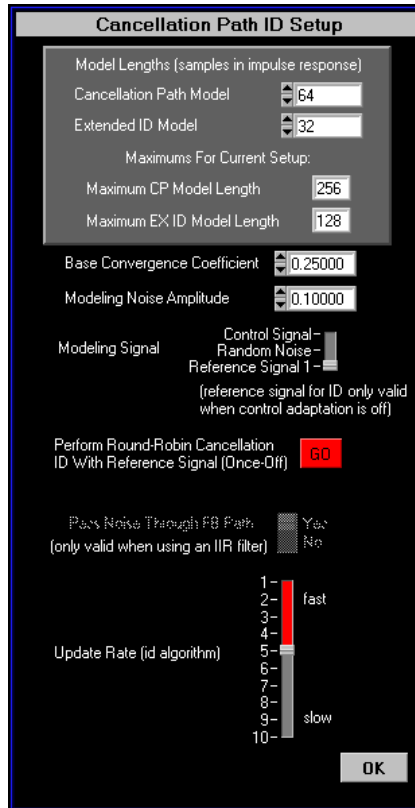
3. P.37, Figure 23 should be replaced with the following.



4. P.45, The following table should be used to define the maximum number of the filter taps available for each control filter and each cancellation path filter.

|                                       |      |     |     |     |     |     |     |     |     |
|---------------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| Number of Control Channels            | 1    | 2   | 3   | 4   | 5   | 6   | 7   | 8   | 9   |
| Maximum Number of Control Filter Taps | 1024 | 512 | 340 | 256 | 200 | 170 | 145 | 128 | 113 |

5. P.48, Figure 36 should be replaced with the following.



6. P.48, the first paragraph should be re-written as follows:

The modeling signal selects the signal for modeling. There are three options in test version 1.05: Control Signal, Random Noise and Reference Signal 1. The later two are recommended and the reference signal 1 option is new in this version, which is especially useful when the objective is to control tonal noise.

If the reference signal is used as the modeling signal (this is a new function in version 1.05 and can be found in the Cancellation Path ID Setup panel), there are two methods for doing the cancellation path identification. The first is to have the ID button on. By doing this, the controller sends the reference signal to all outputs channels, and does the identification for transfer functions between all control outputs and all error inputs simultaneously. The second method is to do the cancellation path identification in a round-robin way (recommended), which sends the reference signal to one control output channel at a time. For each channel the modeling time is about 5 seconds. To do this, click the GO button in the Cancellation Path ID Setup panel with ANC ON; the status of the ID button does not effect this situation.

When the reference signal is used for modeling, the level of the reference signal can be changed using Menu>>I/O Setup>>Signal Definitions. To do cancellation path modeling with the reference signal, the level of the modeling signal normally should be larger than the primary disturbance. For a multiple channel system, if the locations of the control actuators and error sensors are well conditioned, the modeling can be done simultaneously for all the control output channels. However, normally, the round-robin method is recommended.

7. p.63, add the following sentence at the end of the first paragraph about software.

The version of the software in the EPROM is test version 1.05 and the version of the Windows interface is test version 1.05b, which are released in June 2002.

8. P.64 and 66 Sampling rates. The following are correct.

The sampling rate range is from 86Hz to 32KHz.

Hardware sampling rates are from 5513Hz to 32KHz, in 10 steps.