

Command:AALIGN (AA)

MS2000 or RM2000 syntax

Shortcut	AA
Format	AALIGN [axis] = [alignment]...
Units	0-99, hardware potentiometer value

Tiger syntax

Shortcut	AA
Format	AALIGN [axis] = [alignment]...
Units	0-99, hardware potentiometer value
Type	Axis-Specific

Adjusts the drive strength by writing to a non-volatile on-board potentiometer. Normally done once at the factory (to a very conservative value) and never adjusted again. If the AA is off, the stage may be sluggish (too low) or it may oscillate, buzz, or sound like it's grinding (too high).



Note: After changing the AA value the [AZERO](#) command should be run until zeroed.

To optimize stage performance a high AA is desirable, but too high and there are big problems. AA can be increased until oscillations occur and then decreased by 1 or 2 as described at the page on [tuning stages to minimize move time](#).



Warning! The stage may move when the **AALIGN** command is sent.

Example

```
AA X? Y? Z?
:A X=83 Y=78 Z=59
```

Queries the current AA parameters.

```
AA X=85
:A
```

Sets the X axis potentiometer to 85. The [AZERO](#) command should now be run until zeroed.

[commands](#), [tiger](#), [ms2000](#)

From:

<http://www.asiimaging.com/docs/> - **Applied Scientific Instrumentation**

Permanent link:

<http://www.asiimaging.com/docs/commands/aalign>

Last update: **2025/09/30 19:37**

