Command:SETLOW (SL)

MS2000 or RM2000 syntax

Shortcut	SL
Format	SETLOW [axis]=[position in mm]...
Units	Millimeters
Remembered	Automatically

Tiger syntax

Shortcut	SL
Format	SETLOW [axis]=[position in mm]...
Units	Millimeters
Type	Axis-Specific
Remembered	Automatically

This command sets/displays the lower firmware limit for an axis. The limit is considered a fixed hardware locations and are adjusted properly when the controller's coordinate system is altered with the HERE or ZERO commands. The limit positions are automatically remembered and recalled through a power cycle and do not need to be saved using the SAVESET command.

SL [axis]+ will set the lower limit to be the current position. Restore the default limit by executing SL [axis]-. The +/- operand syntax is supported as of Tiger firmware v2.8 and MS-2000 firmware as of roughly 2013.

The corresponding command for the lower firmware limit switch is the SETLOW command.

Reply

If there are no errors, a positive reply of :A followed by the startup sequence. For the Z axis only, input values equal to or greater than the current SETUP parameter value are acknowledged by :A but ignored.

Example

```
SL X=-50 Y=-50 Z?
:A Z=-110.000
```

In the above example, the lower limit for the X and Y axes have been set to 50 millimeters from the origin in the negative direction. Note that the Z? resulted in the controller returning the current position of the Z lower firmware limit switch.

Note 1: If this value is equal to or greater than the value for SETUP, then the controller will operate incorrectly. See also Note 2.
Note 2: When the direction of an axis is negative (see CCA Z=###), upper limit settings must be negative values, and lower limit settings must be positive values.

Note 3: For clocked devices (e.g. filter sliders, turrets) the lower limit is always 1.

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