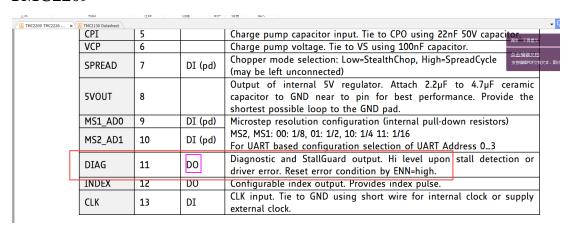
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Description of the limit switch function cannot be used after using the TMC2209:

TMC2130

MC2130 Datashe	eet X)_				Thotol cont b output b	
	VS	16, 31	21, 40		Motor supply voltage. Provide filtering capacity near pin with short loop to nearest GNDP pin (respectively via GND plane).	清除 不再提示 点击编辑文档 支持编辑PDF文档文本
	DCO	17	23	DIO	dcStep ready output	
	DCEN_CFG4	18	24	DI (tpu)	dcStep enable input (SPI_MODE=1) - tie to GND for normal operation (no dcStep) or Configuration input (SPI_MODE=0) (tristate detection).	
	DCIN_CFG5	19	25	DI (tpu)	dcStep gating input for axis synchronization (SPI_MODE=1) or Configuration input (SPI_MODE=0) (tristate detection).	
	DIAG0	20	26	DIO	Diagnostics output DIAGO. Use external pull-up resistor with 47k or less in open drain mode.	
	DIAG1	21	27	DIO	Diagnostics output DIAG1. Use external pull-up resistor with 47k or less in open drain mode.	
					Enable input (SPI_MODE=1) or	
	DRV_ENN_ CFG6	22	29	DI (tpu)	configuration / Enable input (SPI_MODE=0) (tristate detection). The power stage becomes switched off (all motor outputs floation) when this pin becomes driven to a high level.	

TMC2209



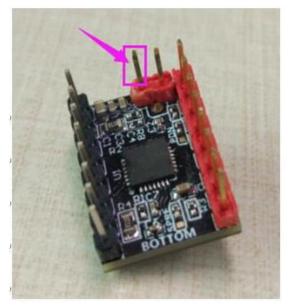
A comparison of the TMC2209 and TMC2130 chip manuals shows that:

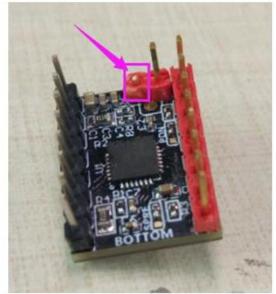
The DIAG pin of the TMC2130 can be used as an input/output, but the DIAG of the TMC2209 can only be used as an output. Therefore, it should be noted when using TMC2209 on the board with DIAG function: (such as SKR E3 DIP V1.0, BTT002 V1.0, SKR Pro V1.1, etc.) If you use the TMC2209 but can not use the

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DIAG function, you have to cut the DIAG pin on the TMC2209 driver, otherwise the limit switch function will not work properly.

As shown below:





If you encounter other problems while using, please contact us, we will answer you scrupulous; if you have any good comments or suggestions for our products, pls feel free to inform us, we will carefully consider your comments or suggestions, thank you for choosing BIGTREETECH products, thank you!