

Technical Newsletter

SUBJECT: 5G SMD BOARD DIPSWITCHES and ERRORS
(Part number 1861022-SP)

DIP SWITCH SETTINGS: What can be set with the dip switches on the 5G SMD board

DIPS4

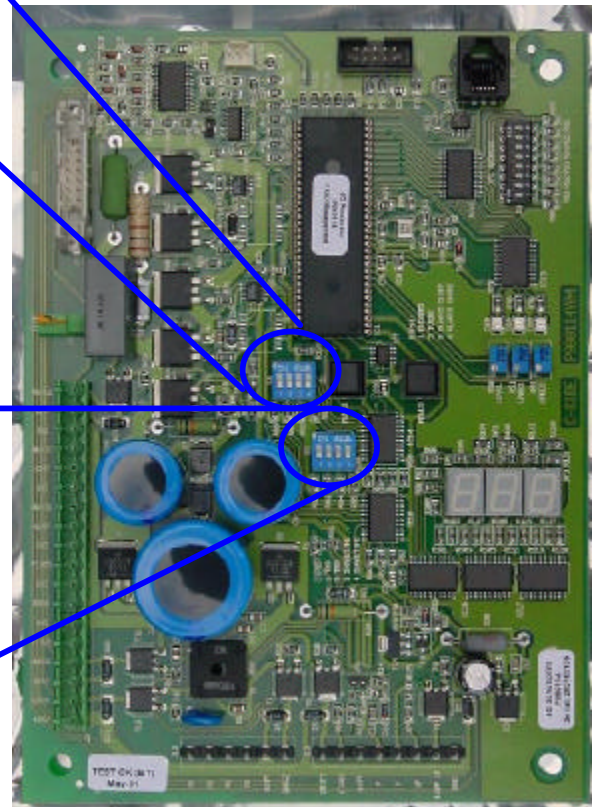
Switch	OFF	ON
1	Encoder enable	Encoder disabled
2	Turbo enabled	Turbo disabled
3	UP stops by open door	UP allowed by open door
4	Movement stops by open door	Everything is allowed by open door

DIPS5

switch:	OFF	ON
1	Sliding Table	no Sliding table

Switch 2, 3 and 4 determines the maximal shaking time as follows:

Shaking time max	2	3	4
180 sec	OFF	OFF	OFF
15 min	OFF	ON	OFF
30 min	OFF	OFF	ON
60 min	OFF	ON	ON
360 sec	ON	*	*



CHANGING SETTINGS WITH MENU SWITCH:

(Right from DIPS4, see drawing PCB)

With the MENU1 switch you can scroll through the settings of the 5G SMD board, even as in the 5G board. The scrolling order as follows:

1. Error message
2. Settings of the distance counted from the upper position where the change is made to low pressure clamping. A green led switches on at the corresponding setting potentiometer.

3. Setting of low pressure. A green led switches on at the corresponding setting potentiometer.
4. Setting of high pressure. A green led switches on at the corresponding setting potentiometer.
5. Display of the movement in cm during UP-movement. This setting is defined by software.
6. Display of maximal clamping current. This setting is defined by software.
7. Display of maximal turbo power. This setting is defined by software.
8. Display of the CHOP duty cycle for keeping from the tin clamped. This setting is defined by software.
- 9. Back to point 1.**

ERROR CODES 5G SMD BOARD:

To indicate the reason of interruption an error code appears on the three 7-segments displays. This is also the same by the "Old" 5G board. Because of the fact the 5G SMD Board can recognize more error messages there are more error codes.

Beneath an overview of all error codes. The new error codes are **bold rendered**.

E00	No error, everything is working properly	E22	T7 became too hot (>90 Celsius)
E01	Too less clamping motor current, the clamp motor has a bad connection or runs without load.	E23	T8 became too hot (>90 Celsius)
E02	Set pressure has not been reached. The pressure is set to high or the supply voltage is too low.	E24	T9 became too hot (>90 Celsius)
E03	Door has been opened during clamp movement.	E25	T10 became too hot (>90 Celsius)
E04	5V (reference voltage) too low or 12V too high	E30	T1 (LMPUP lamp)
E05	5V (reference voltage) too high or 12V too low	E31	T2 (DRIFT lamp) overload
E06	50V too low	E32	T3 (SHAKE relays)
E07	Clamping moved in bottom position	E33	T11 (SLOT relays)
E08	During shaking tin became 6mm smaller	E34	T12 (AUXO1 output) overload
E09	Unknown component was too hot	E35	T13 (AUXO2 output) overload
E10	Encoder gives no pulses	E71	T7 or T10 defect (comparable with E47 in 5G board)
E12	T5 (turbo FET) or 100V supply defect	E89	T8 or T9 defect (comparable with E58 in 5G board)
E20	Rectifier bridge became too hot (>90 Celsius)	E99	Clamping motor or cabling short-circuited.
E21	T5 became too hot (>90 Celsius)		

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