Service Support Spirit



How to solve the Tube-MINI Lifter does not move

→ Problem: The Tube-MINI Lifter does not move when pressing UP and DOWN

Solution overview:

- 1. The [COLLISION] indicator light is on;
- 2. Output signal cable problem;
- 3. The Limit switch of the lifter is damaged;
- 4. THC output signal problem;
- 5. Lifter driving motor problem;

Problem analysis:

* 1. The [COLLISION] indicator light is on;

Solution: When the [COLLISION] indicator light is on, means the outside has a collision signal input to the THC. The lifter is moving up, Lifter does not move when pressing UP and DOWN



Pic 1₄

Please: Take off the consumables and check if there is any slag shorted the nozzle and protective cap, clean it or change consumables.

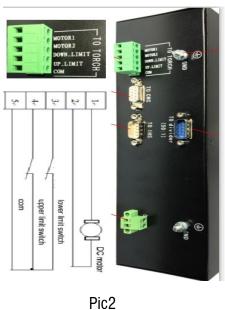
Problem analysis:

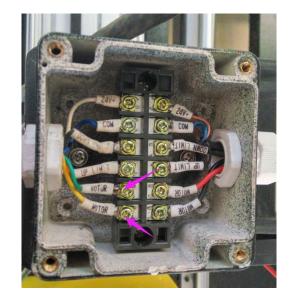
* 2. Output signal cable problem: lifter cable or lifter limit cable is disconnected;

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Solution: Check if there is open circuit between THC and the lifter terminal box, connect the cable if disconnected.





Pic3

Problem analysis:

Solution: The limit switch indicator light(shown in Pic 4) is on, means the limit switch is not open;

When the limit switch indicator light is off, could be 2 reasons: firstly, the limit switch opens when receive the signal from the sensor of the block;

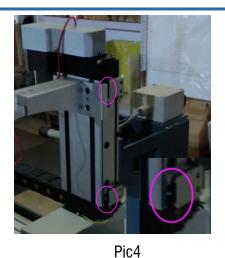
Secondly, the limit switch indicator light is off when no signal from the sensor of the block sent, possibly because the limit switch is damaged.

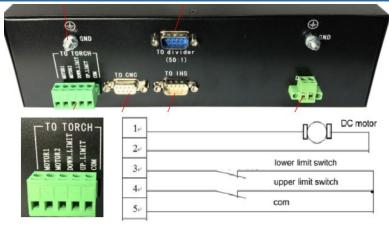
The voltage between 【MOTOR1】 and 【MOTOR2】 is 0, when pressing 【UP】、【DOWN】. Short 3 and 4 to interface 5(shown in Pic5), Press【UP】、【DOWN】,the voltage between 【MOTOR1】 and 【MOTOR2】 is about 24V;

Please: Change the limit switch

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Pic5

Problem analysis:

Solution: Short 3 and 4 to interface 5(shown in Pic5), disconnect cable of 【MOTOR1】 and 【MOTOR2】; Press 【UP】、【DOWN】, the voltage between 【MOTOR1】 and 【MOTOR2】 is about 10V, if no voltage, means THC is damaged;

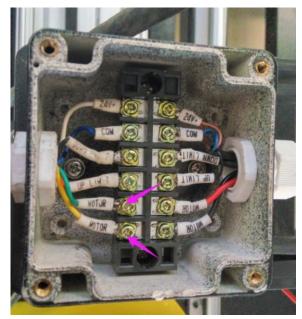
Please: Check the voltage of THC, if it is DC24V, change THC; otherwise, please check the power box

Problem analysis:

★ 5. Lifter driving motor problem;

Solution: Connect the motor cable (shown in Pic6) directly to DC24V power source, if the driving motor don't work, means that the driving motor need to be changed.

Please: Change the driving motor.



Pic6