Troubleshooting for T238 switch sensor version DTU for Gearbox V2

| e ii | For It Association | Calutan |
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| Fault | Fault Analysis | Solution |
| No reaction | The connection of motor or | Please use brushed 480 motor and |
| after | battery is abnormal | battery which the voltage is higher than |
| connecting the | | 7.4V, make sure battery and motor is |
| battery | | functional, reconnect motor to make sure |
| | | the circuit is closed then test the DTU |
| | | with battery |
| Only | 1.The connection of motor is | Please confirm motor and gearbox are |
| pre-loading | abnormal | functional, reconnect motor then test the |
| function works | 2. Fault of motor | DTU with battery |
| Magazine keeps | For DTU with pre-loading | 1.Automatic pre-loading function is |
| feeding after it | function, circuit for pre-loading | disabled, please return it to retailer for |
| is attached | function maybe overload | repair |
| | For DTU without pre-loading | 2.For DTU without pre-loading function, |
| | function, negative of magazine | the negative wire of magazine should be |
| | could be connected improperly | connected to negative of motor instead of |
| | , , , , , , , , , , , , , , , , , , , | negative of battery |
| Magazine | Fault of magazine | Please reconnect terminals for magazine, |
| cannot feed | Fault of gearbox | make sure the connection between |
| gel/BB | Diameter of gel is improper | magazine power supply and DTU is |
| 80700 | Power supply wire of magazine | functional, then do troubleshooting for |
| | anomaly | magazine/gearbox/ diameter of gel such |
| | anomary | external factors. |
| 1 long (boom) | One leng theen't following by 2 | |
| 1 long 'beep' | One long 'beep' following by 3 | Trigger sensor is pulled is because it is |
| following by 3 | short 'beeps' indicate that DTU is | pressed by wires or other things and it |
| short 'beeps' | entering 'quick' model, it means | cannot reset. Please disassemble gearbox |
| after battery is | trigger is pulled while selector | to check |
| connected, no | plate is at 'semi' position. If | |
| reaction after | trigger is not pulled, it means | |
| the trigger is | trigger cannot block sensor while | |
| pulled | it is released, DTU detects that | |
| | trigger is pulled. | |
| Only 3 short | 3 short 'beep' means the DTU has | Please investigate wires of gearbox; Since |
| 'beeps' after | Entered shooting mode | travel of trigger might not be enough, |
| battery is | successfully, it means initialization | it is needed to modify the trigger limit |
| connected, no | of DTU is successful. No reaction | of trigger on gearbox to make the |
| reaction after | after the trigger is pulled might be | trigger is able to reach the trigger |
| trigger is pulled | caused by that trigger sensor is | sensor; If the trigger cannot reach the |
| | blocked by wires or other things | switch, please thicken the end of |
| | or the travel of trigger is not | trigger until it can reach the switch |

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| Motor heating | Frequent motor heating is mainly caused by high start and shut current and frequent shut. Active Brake of DTU needs to transfer the kinetic energy to heat energy for brake. It is related to the performance of motor; heating of motor is normal phenomenon, and it is unavoidable. | Set the position of piston to 4 or higher in programming model can reduce or close active brake function to reduce motor heating. In addition, change the motor to high torque and low RPM ones can also reduce motor heating. |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Battery heating | Critical battery heating is mainly | Battery with higher discharge rate and |
| , , | caused by that the torque of | capacity is recommended. In addition, |
| | motor is not enough for load or | connector for battery, it is recommended |
| | load is too large. Normally, it is | to use XT30 or mini-Tamiya connector. |
| | because gears are too tight or | Investigate the tightness of gears, the |
| | the main spring is too strong; it | strength of main spring and smoothness |
| | could also be caused by discharge | of gearbox. Change the motor to a |
| | of battery is not enough or it is at | high-torque one can relieve this issue. |
| | overloading status for a long time | |
| Critical wire | Critical heating of wire is because | Battery with higher discharge rate and |
| heating | torque of motor is not enough for | capacity is recommended. In addition, for |
| | load or the load is too much | connectors of battery, it is recommended |
| | (Gears are too tight or main | to use XT30 or mini-Tamiya connector. |
| | spring is too strong); It could also | Investigate the tightness of gears, the |
| | be the discharge rate of battery is | strength of main spring and smoothness |
| | not enough or the battery is at | of gearbox. Change the motor to a |
| | overload situation for a long time | high-torque one can relieve this issue. |
| Firing instantly | FET chip has damaged | Please investigate battery connectors and |
| after battery is | | motor connectors are reversal or not. |
| connected | | Please check is there a short circuit or |
| | | damage on wires or circuit boards, Please |
| | | contact after-sales for solution |
| DTU burn down | Battery is connected reversely | Please check the connector of battery is |
| instantly after | | Reversal or not, Please contact after-sales |
| battery is | | for solution |
| connected | | |
| DTU burn down | Polarities of motor (Gearbox) are | Please check connector of motor is |
| instantly after | connected reversely | reversal or not, is there a short circuit or |
| trigger is pulled | Short circuit occurs on the wire | damage in wire, Please contact after sales |
| Influent size le | that connects motor | for solution. |
| Influent single Shot but the | Gear is too close to gear sensor or the circuit board is loose. | Please fix the circuit board on gearbox |
| 'auto' mode | the circuit board is loose. | and modify the lever on the gear switch based on actual situation then |
| is normal | | reassemble the DTU to test |
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