

# RCS-BELTROL

## ESC TROUBLESHOOTING.

IF NOTHING WORKS AT ALL:

**IT IS MOST IMPORTANT THAT YOU ARE USING THE CORRECT OPERATING PROGRAM.**

**SPEKTRUM & PLANET MUST USE BTLvA2.**

**E-SKY & HOBBY KING MUST USE BTLvB2.**

Before operation it is most important to make sure Ch # 5 is **OFF** unless you intend calibrating the system.

**IF THE LIGHTS START FLASHING IT MEANS CH # 5 IS TURNED ON.  
NEVER SIMPLY TURN CH # 5 OFF. (SEE BELOW).**

**WHAT TO EXPECT WHEN FIRST TURNING SYSTEM ON.**

**WHEN THE LOCO IS SWITCHED ON THE LOCO MAY JERK SLIGHTLY.**

This is normal. The slight jerk indicates power is connected to the system and the IC has powered up.

**WHEN THE LOCO IS SWITCHED ON, THE ACCESSORY OUTPUT # 1 MAY TRIGGER BRIEFLY.**

This is also normal. A sound system function connected to output # 1 may trigger. Our testing shows no sign of this actually happening with Phoenix and Sierra. But, it is possible.

**WHEN FIRST TURNED ON WITH CH # 5 ON, THE LIGHTS WILL BLINK FOR CALIBRATION MODE.**

However, after calibration the lights keep flashing when you switch OFF **Ch # 5**.

You may have mis-plugged the RX into the channel sockets.

**SOLUTION.** Turn system OFF. Remove & replace the RX into the correct channel # sockets. See page # 2.

As odd things can happen if this occurs, we strongly suggest you reset the system. See page # 6. 3.5.

Then re-calibrate the speed and direction settings. See page # 5.

**WHEN THE SYSTEM IS FIRST TURNED ON THE LIGHTS UNEXPECTEDLY BLINK RAPIDLY.**

This is because the **Ch # 5** switch/knob is **ON** & the system has entered calibration mode.

**CAUTION: DO NOT SIMPLY TURN CH # 5 OFF. You will lose any previous calibration settings.**

You can proceed with Calibrating the system. (See page # 5 of the instructions). **OR:**

**SOLUTION (i).** Turn TX OFF, then turn **Ch # 5** switch/knob OFF. Normal system control will be restored.

**SOLUTION (ii).** Turn RX OFF, then turn **Ch # 5** switch/knob OFF. Normal system control will be restored.

**WHEN THE LOCO IS SWITCHED ON, ALL LIGHTS COME ON WITHOUT BLINKING & NOTHING WORKS.**

This can occur when the TX is switched ON after the loco, with the throttle stick not fully OFF (down).

**SOLUTION.** Ensure the throttle stick is completely OFF. The lights will then blink to indicate linking.

**THE LOCO DIRECTION SET STICK & OR SPEED CONTROL IS BACKWARDS.**

It is most important to ensure that the servo reversing switches are ALL set to normal.

When the direction is set to forwards the front light must come ON. If it doesn't, reverse the elevator switch.

Then, if the speed is backwards to the lighting direction, you must reverse the wiring to the motor(s).

**WEIRD ESC BEHAVIOUR FOR NO APPARENT REASON, DURING OPERATION.**

**SITUATION # 1.** You have been running, & for no apparent reason the lights started flashing. This means the

**Ch # 5** switch/knob was turned **ON** during running. **CAUTION: DO NOT SIMPLY TURN CH # 5 OFF.**

**FIRSTLY STOP THE LOCO. N.B.** The throttle reaction will be quite slow.

**SOLUTION (i).** Turn TX OFF, then turn **Ch # 5** switch/knob OFF. Normal system control will be restored.

**SOLUTION (ii).** Turn RX OFF, then turn **Ch # 5** switch/knob OFF. Normal system control will be restored.

**SITUATION # 2.** The system was working and for some reason you had a panic situation. You stopped the

loco and switched the TX off. When you switched the TX back ON the loco lights were flashing, you moved

the sticks to try and move the loco and now nothing works. You have accidentally turned the **Ch # 5**

switch/knob **ON** at some stage and altered the original speed and direction calibration.

**SOLUTION.** Reset the system. See page # 6. 3.5, then, Recalibrate the system. See page # 5.

**DEFAULT START UP DIRECTION.**

When using the **# PnP-ADAPT**, the **# BTL-3r**, **# BTL-6r (& # BTL-PnP5)** ESC's are programmed to be the same as the AristoCraft® on board TE. As such, the motor direction & lights for Bachmann® PnP socket equipped locos will need to be reset. See page # 6 section 3.4.

The PnP socket and lights are also wired backwards on some AristoCraft® locos. In this case the default direction will also need to be reset. See page # 6 section 3.4. **OR:**

You can simply swap over the wires at the **# PnP-ADAPT** screw terminals.

**PLEASE ADVISE US OF ANY OTHER PROBLEMS ENCOUNTERED & WE WILL INCLUDE THEM HERE.**