

OPERATING INSTRUCTIONS

SPEEDSTAR

Micro Speedcontrol

Thank you very much for your trust in our products. Please read these operating instructions carefully, so you can avoid problems in advance. Please also notice the technical data and limits of this speed control printed on the backside of the package.



RS131

INSTALLATION

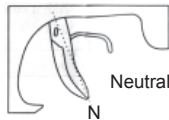
- To avoid radio interference please mount the speedcontrol with a gap of minimum 2cm (3/4") to the receiver and the antenna wire.
- Mount the speed control firmly with double sided tape so that it does not loosen when it gets hot.
- Always use the provided capacitors on the motor to avoid radio interference.

RADIO SETUP

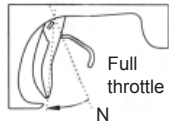
Please make sure that all connections are wired correctly, the speed control is OFF and the radio is in neutral position.

- 1) Switch the radio on, connect the battery to the speedcontrol and then switch the speedcontrol on.

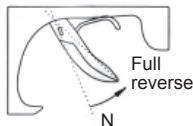
- 2) **NEUTRAL SETTING:** Leave the throttle trigger in the neutral position, press and hold the setup button until the green LED begins to flash then release the button.



- 3) **FULL THROTTLE:** Now move the throttle trigger to the full throttle position. The red LED should now light up. (The motor will not run in the setup process!)



- 4) **FULL REVERSE:** Then move the throttle trigger to the full reverse position. The red and green LED will light up.



- 5) **ABS BRAKE:** Move your throttle trigger back to neutral position. The green LED will flash a view times and then both LEDs will flash alternately.

- a) **Activate ABS brake:** While the LEDs are flashing alternately, move your throttle trigger either to full throttle or to full reverse. Then move it back to neutral position. The red LED will flash to show ABS brake is activated.

- b) **Deactivate ABS brake:** Still let your throttle trigger on neutral position. This will deactivate the ABS brake.

- 6) Now the green LED should light up. Your speed control is ready to run.

- 7) If the motor runs in wrong direction you have to reverse the motor cables.

POWER PROGRAMS

Your SPEEDSTAR2 speed control has 3 factory set power programs. These power programs set a delay on full throttle and avoid spinning wheels on slippery track conditions. If you have high grip conditions and want full power choose the shortest delay.

POWER PROGRAM SETTING:

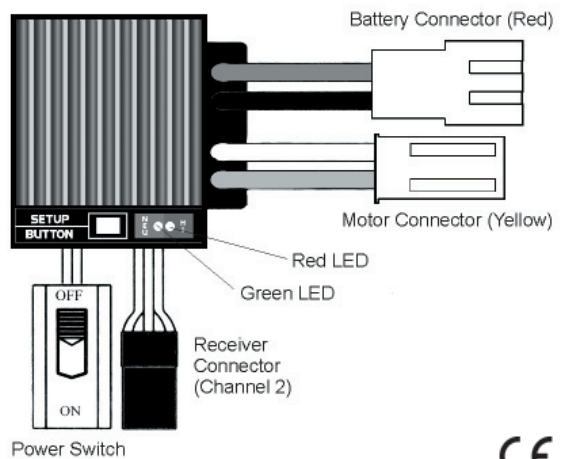
- 1) Leave the throttle trigger of your radio in neutral position. Then press and hold the setup button as long as the **red LED** flashes.

- 2) Release the setup button and choose one of the 3 following settings:

- a) After one second the red LED flashes one time. If you want the power program with **0.09 seconds** delay press the setup button now. This is the factory default setting of the speedcontrol.
- b) After two seconds the red LED will flash 2 times. If you press the setup button now, you choose the power program with a delay of **0.16 seconds**.
- c) After three seconds the red LED will flash 3 times. Press the setup button now, if you want to have the power program with a delay of **0.27 seconds**.

If you don't pressed the button, the speedcontrol begins again with the first point (a).

CONNECTIONS

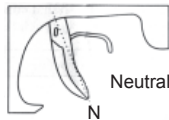


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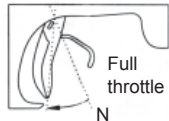
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- 1) Switch the radio on, connect the battery to the speedcontrol and then switch the speedcontrol on.

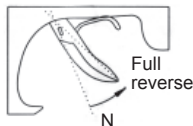
- 2) **NEUTRAL SETTING:** Leave the throttle trigger in the neutral position, press and hold the setup button until the green LED begins to flash then release the button.



- 3) **FULL THROTTLE:** Now move the throttle trigger to the full throttle position. The red LED should now light up. (The motor will not run in the setup process!)



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- a) **Activate ABS brake:** While the LEDs are flashing alternately, move your throttle trigger either to full throttle or to full reverse. Then move it back to neutral position. The red LED will flash to show ABS brake is activated.

- b) **Deactivate ABS brake:** Still let your throttle trigger on neutral position. This will deactivate the ABS brake.

- 6) Now the green LED should light up. Your speed control is ready to run.

- 7) If the motor runs in wrong direction you have to reverse the motor cables.

LIPO-MODE

Your SPEEDSTAR2 speed control has an adjustable undervoltage protection for using it with NiCd/NiMH or with LiPo batteries.

To change the battery setting please follow these steps:

- 1) Leave the throttle trigger of your radio in the neutral position. Then press and hold the setup button until the **red and green LED** flashes.

- 2) Release the setup button and choose one of the 2 following settings:

- a) After one second both LEDs will flash one time. Press the setup button now to use the setting for **LiPo** batteries.
- b) After two seconds both LEDs flash two times. Press the setup button now to use the setting for **NiCd/NiMH** batteries. This is the factory default setting of the speed control.

WARNING

- Do not leave your model unsupervised while a battery is connected or it is switched on. The model could come out of control and can cause damage or fire.
- Do not use batteries with more than 7 cells (8,4V).
- Do not connect a battery with reversed polarity as this will damage the speed control. Always use reverse polarity protected connectors and protect all wires from short circuits.
- When the speed control is connected to the motor, do not power the motor with an additional battery. This will damage the speed control!
- Always switch your radio on first and then the speed control. Otherwise the model could come out of control and could cause damage.
- Avoid blocked wheels and motors as this would cause very high currents and heat dispersion.
- After a run the heatsink of your speedcontrol could be very hot. Do not touch the heatsink!
- Not suitable for children under the age of 14. This is not a toy.

SPLASH WATER PROOF

The electronics of your SPEEDSTAR2 speed control have a special coating which makes it resistant against water and dust. While it is water and dust resistant, please avoid excessive water and dust contact as this will lead to failure. If it does come in contact with water please let it dry thoroughly before using it again.

OVERTEMPERATURE PROTECTION

Your SPEEDSTAR2 speed control has a built in overtemperature protection system. This system prevents the speed control from overload and avoids damage to it. If the temperature inside the speedcontrol reaches 100°C (212°F) the protection system switches the motor off and shows its function with both LEDs flashing. When the temperature reaches normal values the speed control will switch back on.

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RS132

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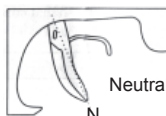
- To avoid radio interference please mount the speedcontrol with a gap of minimum 2cm (3/4") to the receiver and the antenna wire.
- Mount the speed control firmly with double sided tape so that it does not loosen when it gets hot.
- Always use the provided capacitors on the motor to avoid interferences.

RADIO SETUP

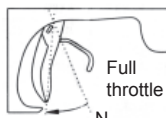
Your SPEEDSTAR2 speed control has an automatic setup function. Therefore it is not needed to make a radio setup with the transmitter. The speed control recognizes the signals from the radio automatically.

Description of the LEDs in drive mode:

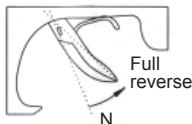
NEUTRAL: In neutral position only the green LED lights up.



FULL THROTTLE: In full throttle position the red LED lights up. Between neutral and full throttle all LEDs are off.



FULL REVERSE: In full reverse position both LEDs light up. Between neutral and full throttle all LEDs are off.



If the motor turns in the wrong direction but the LEDs are lighting correctly then you have to exchange the motor cables.

If the motor turns backwards and the LEDs also show reverse although you pull the throttle trigger to full throttle then you have to change the servo reverse setting on your transmitter.

When you turn your speedcontrol, no LED is lighting and the speedo has no function please check if the trim on the transmitter is in the middle position and all maximal values are at 100%. Also special functions on the transmitter should be switched off.

! WARNING

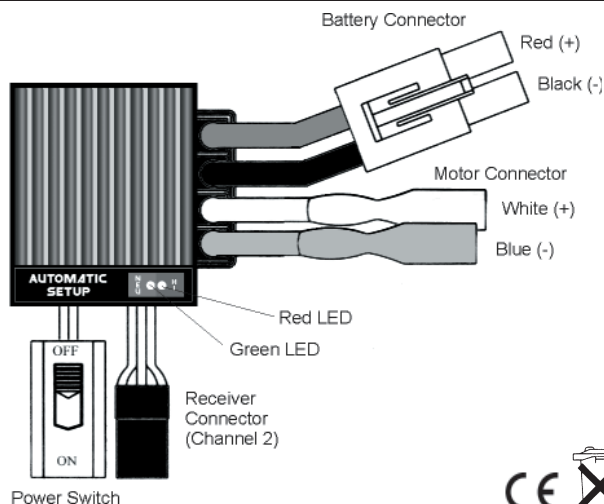
- Do not leave your model unsupervised while a battery is connected or it is switched on. The model could come out of control and can cause damage or fire.
- Do not use batteries with more than 7 cells (8,4V).
- Do not connect a battery with reversed polarity as this will damage the speed control. Always use reverse polarity protected connectors and protect all wires from short circuits.
- When the speed control is connected to the motor, do not power the motor with an additional battery. This will damage the speed control!
- Always switch your radio on first and then the speed control. Otherwise the model could come out of control and could cause damage.
- Avoid blocked wheels and motors as this would cause very high currents and heat dispersion.
- After a run the heatsink of your speedcontrol could be very hot. Do not touch the heatsink!
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CONNECTIONS



OVERTEMPERATURE PROTECTION

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ABS BRAKE

Your SPEEDSTAR2 speed control has an automatic ABS brake. This kind of brake makes sure that the wheels of your model are not completely locked when you brake hard so that your model remains easily controllable.

TECHNICAL DATA

- Proportional speed control with forward, brake and reverse.
- Automatic setup from the radio. Just plug in and drive!
- External power switch for easy on/off switching.
- High switching frequency for better control and more runtime.
- Handles motors down to 17 turns.
- ABS brake system for better handling.
- "Plug and Play" - comes with motor, battery and radio connectors.
- Overtemperature protection system.
- Water resistant electronics.

TROUBLESHOOTING

Problem: Motor and steering have no function.

- Battery is empty -> Please recharge the battery.
- Bad connection -> Please check all connections.
- Battery is connected in reverse polarity -> Please disconnect the battery from the speedcontrol immediately and connect in with the right polarity.
- Internal defect -> Please send the unit for service.

Problem: No reverse.

- Transmitter or speedcontrol are not adjusted in the right way. Please check all your settings on the transmitter.
- Internal defect -> Please send the unit for service.

Problem: Motor stutters.

- There are no capacitors on the motor or the capacitors on the motor are defect.
- Battery defect. Please use another battery.
- Receiver mounted too close to the speedcontrol.
- Interferences due to unfavorable placed cables.

Problem: Motor stops after a few minutes.

- Overtemperature protection system is active -> Check if the drivetrain of your model is smooth running.
- > Transmission ratio is too long. Please use a shorter transmission ratio.
- > Motor has an internal short circuit. Please replace the motor.

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RS133

INSTALLATION

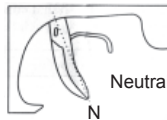
- To avoid radio interference please mount the speedcontrol with a gap of minimum 2cm (3/4") to the receiver and the antenna wire.
- Mount the speed control firmly with double sided tape so that it does not loosen when it gets hot.
- Always use the provided capacitors on the motor to avoid radio interference.

RADIO SETUP

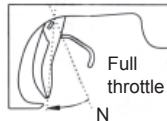
Please make sure that all connections are wired correctly, the speed control is OFF and the radio is in neutral position.

- 1) Switch the radio on, connect the battery to the speedcontrol and then switch the speedcontrol on.

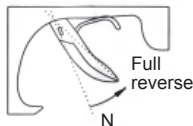
- 2) **NEUTRAL SETTING:** Leave the throttle trigger in the neutral position, press and hold the setup button until the green LED begins to flash then release the button.



- 3) **FULL THROTTLE:** Now move the throttle trigger to the full throttle position. The red LED should now light up. (The motor will not run in the setup process!)



- 4) **FULL REVERSE:** Then move the throttle trigger to the full reverse position. The red and green LED will light up.



- 5) **ABS BRAKE:** Move your throttle trigger back to neutral position. The green LED will flash a view times and then both LEDs will flash alternately.
 - a) **Activate ABS brake:** While the LEDs are flashing alternately, move your throttle trigger either to full throttle or to full reverse. Then move it back to neutral position. The red LED will flash to show ABS brake is activated.
 - b) **Deactivate ABS brake:** Still let your throttle trigger on neutral position. This will deactivate the ABS brake.
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POWER PROGRAMS

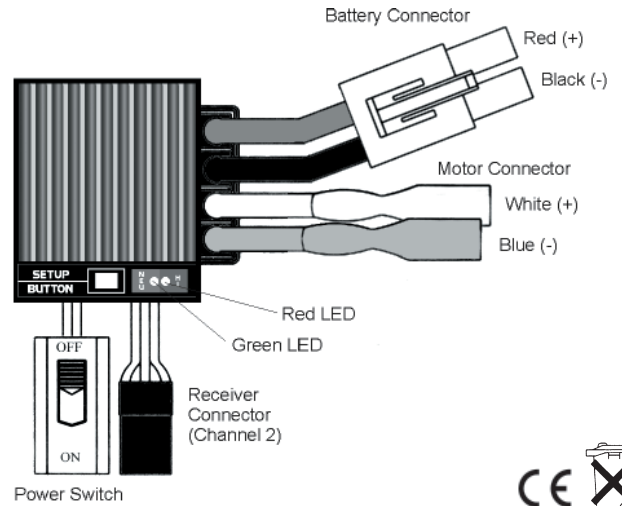
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POWER PROGRAM SETTING:

- 1) Leave the throttle trigger of your radio in neutral position. Then press and hold the setup button as long as the **red LED** flashes.
- 2) **Release the setup button and choose one of the 3 following settings:**
 - a) After one second the red LED flashes one time. If you want the power program with **0.09 seconds** delay press the setup button now. This is the factory default setting of the speedcontrol.
 - b) After two seconds the red LED will flash 2 times. If you press the setup button now, you choose the power program with a delay of **0.16 seconds**.
 - c) After three seconds the red LED will flash 3 times. Press the setup button now, if you want to have the power program with a delay of **0.27 seconds**.

If you don't pressed the button, the speedcontrol begins again with the first point (a).

CONNECTIONS



LIPO-MODE

Your SPEEDSTAR2 speed control has an adjustable undervoltage protection for using it with NiCd/NiMH or with LiPo batteries.

To change the battery setting please follow these steps:

- 1) Leave the throttle trigger of your radio in the neutral position. Then press and hold the setup button until the **red and green LED** flashes.
- 2) **Release the setup button and choose one of the 2 following settings:**
 - a) After one second both LEDs will flash one time. Press the setup button now to use the setting for **LiPo** batteries.
 - b) After two seconds both LEDs flash two times. Press the setup button now to use the setting for **NiCd/NiMH** batteries. This is the factory default setting of the speed control.

WARNING

- Do not leave your model unsupervised while a battery is connected or it is switched on. The model could come out of control and can cause damage or fire.
- Do not use batteries with more than 7 cells (8,4V).
- Do not connect a battery with reversed polarity as this will damage the speed control. Always use reverse polarity protected connectors and protect all wires from short circuits.
- When the speed control is connected to the motor, do not power the motor with an additional battery. This will damage the speed control!
- Always switch your radio on first and then the speed control. Otherwise the model could come out of control and could cause damage.
- Avoid blocked wheels and motors as this would cause very high currents and heat dispersion.
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SPLASH WATER PROOF

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RS134

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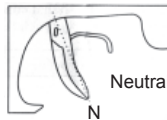
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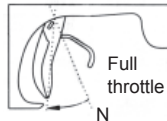
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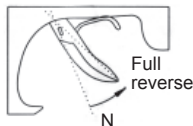
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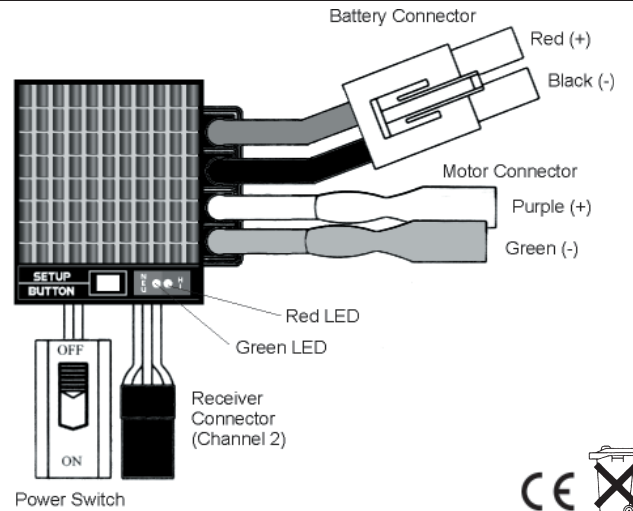
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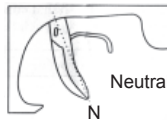


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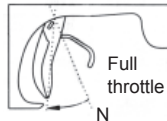
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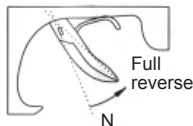
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