

USER MANUAL

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NR00257

#90905

#90955

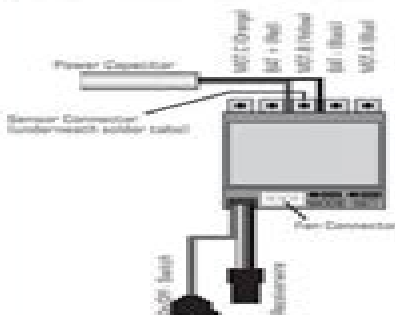
Brushless Competition
Speed Control

PEARL
Version 2

for distributor address see packaging

www.noogram.com

CONNECTIONS & EXPLANATIONS



RECEIVER CONNECTING WIRE: The Pearl Version 2 is equipped with an NOOGRAM Multicon receiver wire. As supplied, it is ready to fit in all ordinary receivers. Make sure you connect it to receiver with correct polarity and use channel 2.

SENSOR CONNECTION: located underneath the solder tabs. The 3-directional multiple sensor wires connect the speed-control and the motor. Always use the sensor wire and do not alter or modify this cable! There are replacement/optional half sensor wires available, please refer to the optional line up at „Spare- & Optional Parts“. Through this sensor connection, the Pearl Version 2 can also be updated with the latest software updates available at: www.noogram.com using the optional „USB Bridge“. Please refer to chapter „Special Features“ for details.

POWER WIRE: For maximum performance, flexible silicone wires are attached to the heat sink and allow unique optional solder tabs allow easy and convenient replacement of the power wires. Nevertheless some soldering skills are required. Avoid soldering finger that lead to soldering joint to prevent possible damage to the speed-control due to overheating of the component! There are full replacement power wire sets available, please refer to complete line-up at „Spare- and Optional Parts“.

HEAT SINK: To achieve best performance even under extreme conditions, the heat sink has been directly mounted to the speed-control. This ensures the best possible heat transfer away from the speed-control.

Caution: Never attempt to remove the heatsink on your Pearl Version 2 may get damaged if you try to do this. The heatsink is an integral part, glued to the PCB and therefore cannot be removed.

PLUGGED FAN (Pearl 551C Version 2 - #90905 only): your speed-control contains a high-performance low-profile 125mm/50mm fan and aluminum screws. The fan can be mounted on top of the heatsink and should be used for tough applications in hot conditions such as RC Modified or Real Offroad. As a guideline we recommend using the fan when using 2S LiPo and motors with less than 5.0T. The fan gets plugged into the 3-pin connector on the front and there is a replacement fan set available, please refer to complete line-up under point „Spare- and Optional Parts“. On Pearl Evolution Version 2 (#90905) model you can also connect an optional fan to the same „port“ if needed.

INSTALLATION TIPS

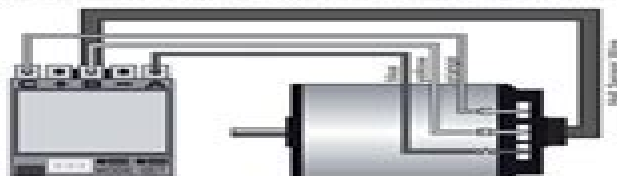
- Position the speed-control and capacitor where they are protected in the event of a crash and gives you easy access to the connectors and buttons.
- Mount the capacitor and capacitor using the supplied thick/black double-sided tape.
- Make sure there is enough clearance between the speed-control, power-wires, antenna and receiver. Avoid any direct contact between components, the receiver or the antenna as this can cause interference. If other remote controls, position the components at a different place in the model.
- The serial should be run vertically up and away from the receiver. Avoid contact with any parts made of carbon fibre or metal. If the serial is too long, don't roll up the excess length. See also the instructions supplied with your radio control system.

WIRES & INSTALLATION

The Pearl Version 2 comes supplied with flexible 3.0mm² silicone power-wires without connections. Be very careful with the correct wire separations/cables since an incorrect connection may damage the speed-control. Avoid creating solder bridges on the solder tabs and solder all connections carefully.

Caution: Avoid soldering longer than 5mm per soldering joint, when replacing the power-wires on the speed-control and motor to prevent possible damage due to overheating of the component!

- Connect the speed-control to the receiver (optional: Channel 2)
- Blue power-wire → Speeds 50% to motor „A“
- Red power-wire → Speeds 100% to motor „A“
- Orange power-wire → Speeds 50% to motor „B“
- Connect the full sensor cable to the speed-control (underneath the solder-tabs) and the motor.



- Doublecheck all connections before connecting the speed-control to a battery.
- Caution:** If battery is connected with reversed polarity it will destroy your speed-control!
- Red power-wire → Speeds 100% to battery „A“
- Blue power-wire → Speeds 50% to battery „A“
- Orange power-wire → Speeds 50% to battery „B“
- The speed-control is now ready for its set-up

Dear Customer,

Thank you for your trust in this NOOGRAM product. By purchasing a „Version 2“ of NOOGRAM's Pearl Evolution 2 Pearl 551C brushless speed-control you have chosen one of the most efficient and successful speed-controls of today. This speed-control with all of its high-tech features and specially selected electronic components is one of the best speed-controls currently available on the market. (FIMM World Champion)

- 100% Brushless Competition
- Dual 100% Power Output
- Speeds 50% for 10S to 10S LiPo without receiver pack
- Full Customizing Technology
- 3-way Protection System 2
- USB Software Updatability
- Boost On/ Off Mode with boosted tuning
- SmartCast System 2
- SmartTiming Boostout 2
- Smart Feedback

Please read the following instructions carefully before you start using your speed-control. This user guide contains important notes for the safety, the use and the maintenance of this product. Thus protecting yourself and avoid damages of the product.

Proceed accordingly to the user guide in order to understand your speed-control better. Please take your time as you will have much more joy with your product if you know it exactly.

This user manual shall be kept in a safe place. If another customer is using this product, this manual has to be handed out together with it.

SPECIFICATIONS

	#90905	#90955		#90905	#90955
Full Brushless Competition	yes	yes	Super 551C	yes	5.0T to 10T
Forward/Reverse	yes	yes	Full Customizing Technology	yes	
Protection	yes	yes	All new brake system	yes	
Speeds	50% to 100% (10S to 10S LiPo)	50% to 100% (10S to 10S LiPo)	2-Way Protection System 2	yes	
Weight (incl. serial)	70g	70g	SmartTiming Boostout System 2	yes	
Voltage Input	3-7.4V	3-7.4V	SmartCast System 2	yes	
Can be used with 10S LiPo	yes	yes	Blue LED	yes	
Can be used with 10S LiPo	yes	yes	Red LED	yes	
Compatible motor types	yes	yes	USB Software Updatability	yes	
Max. Motor current (A)	< 4.0A	< 4.0A	4 adjustable Motor (5000) (New) (yes)	yes	
Propagated heat	yes	yes			

Notes: 1. Voltage at 10S LiPo is 10.8V. 2. Voltage at 10S LiPo is 10.8V. 3. Voltage at 10S LiPo is 10.8V. 4. Voltage at 10S LiPo is 10.8V. 5. Voltage at 10S LiPo is 10.8V. 6. Voltage at 10S LiPo is 10.8V. 7. Voltage at 10S LiPo is 10.8V. 8. Voltage at 10S LiPo is 10.8V. 9. Voltage at 10S LiPo is 10.8V. 10. Voltage at 10S LiPo is 10.8V. 11. Voltage at 10S LiPo is 10.8V. 12. Voltage at 10S LiPo is 10.8V. 13. Voltage at 10S LiPo is 10.8V. 14. Voltage at 10S LiPo is 10.8V. 15. Voltage at 10S LiPo is 10.8V. 16. Voltage at 10S LiPo is 10.8V. 17. Voltage at 10S LiPo is 10.8V. 18. Voltage at 10S LiPo is 10.8V. 19. Voltage at 10S LiPo is 10.8V. 20. Voltage at 10S LiPo is 10.8V. 21. Voltage at 10S LiPo is 10.8V. 22. Voltage at 10S LiPo is 10.8V. 23. Voltage at 10S LiPo is 10.8V. 24. Voltage at 10S LiPo is 10.8V. 25. Voltage at 10S LiPo is 10.8V. 26. Voltage at 10S LiPo is 10.8V. 27. Voltage at 10S LiPo is 10.8V. 28. Voltage at 10S LiPo is 10.8V. 29. Voltage at 10S LiPo is 10.8V. 30. 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