

ORDER NO.:
88270**PHASER**
*sport***27MHZ FM**
4-CHANNELORDER NO.:
88350**35MHZ FM**
4-CHANNELORDER NO.:
88400**40MHZ FM**
4-CHANNELORDER NO.:
88750**75MHZ FM**
4-CHANNEL

USER GUIDE

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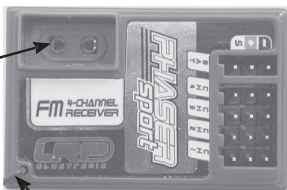
WARNING NOTES

- **IMPORTANT:** Never leave your RC model unsupervised when the battery is plugged in. If a defect occurs, it could set fire to the model or the surroundings.
- Always switch on your transmitter first before you switch on the receiver or the speed control. The receiver could receive interference signals, start full acceleration and damage your model. When you switch off, make sure you do so in the reverse sequence. First switch off the receiver and speed control, then switch off the transmitter.

IMPORTANT: Pay close attention to the following points, as they will destroy the receiver and void your warranty:

- Never allow the receiver or other electronic components to come in contact with water, oil or fuels. If this happens, stop your model immediately, switch the device off and let the components dry carefully.
- Do not operate the receiver in the rain or in the wet. If you ever have to operate in the rain or in the wet, protect your receiver properly to avoid that water reaches the receiver.
- Never open the receiver and never solder on the PCB.
- Always wire up all the parts of the equipment carefully. If any of the connections come loose as a result of vibration, you could lose control over your model.
- Never use the receiver when the case is open or when it is wrapped in a shrink-fit tube. This will reduce protection and may also cause short-circuits.
- Do not reverse the polarity at the receiver.

CONNECTIONS

Crystal Socket
(use FM crystals
only!)

BATT slot (if receiver pack is in use)

Channel 4 (additional functions, see below)

Channel 3 (additional functions, see below)

Channel 2 (Throttle)

Channel 1 (Steering)

Top antenna (do not cut or wrap!)

Additional functions (channel 3+4): Here you can connect a 2nd steering- or brake-servo and operate it over the mixer channel on your transmitter (refer to your radios manual for details)..

TROUBLESHOOTING

Very often, it is difficult to localize a problem; this troubleshooting guide only contains the most common problems that may arise. If your problems are not solved, please talk to your local hobby shop.

SYMPTOM	CAUSE	REMEDY
Inadequate range or general receiving problems	Antenna wire incorrectly deployed	Ensure that the antenna wire is positioned as close to the receiver as possible Make sure the antenna wire doesn't make contact with chassis or other parts
	Receiver incorrectly positioned	Keep the receiver well away from current-bearing devices and install it as recommended
	Antenna wire too short	Ensure that the antenna wire is the full, original length
	Poor connections	Check that all connectors are pushed in firmly, and there are no intermittent contacts
	Transmitter battery empty	Charge transmitter battery
	Receiver battery empty	Charge receiver battery (if in use!)
Frequency already in use by someone else	Frequency already in use by someone else	Check that your spot frequency is not already in use by another user. Very closely spaced channels can also give problems
	Faulty crystal	Test with a different pair of crystals; replace faulty crystal if necessary
Throttle problems during acceleration	Motor inadequately suppressed	Solder the appropriate suppressor capacitors to your motor. Read speed-control manual for details
Throttle and brake functions interchanged	Throttle and steering connections on receiver mixed up	Ensure that the steering servo is connected to channel 1 and the speed-control to channel 2 (refer to your transmitter manual as well)
No function	Connecting wire from speed-control or receiver pack connected with wrong polarity at receiver	Ensure that all connections have the correct sequence/polarity
No steering function	Connecting wire from steering servo connected with wrong polarity	Ensure that all connections have the correct sequence/polarity

Dear Customer,

Thank you for your trust in this LRP product. By purchasing an „LRP Phaser Sport“ receiver, you have chosen a high-quality product full of new design features. Using cutting-edge development and production techniques, a maximum reliability and performance could be achieved:

- Interference suppression circuitry
- Top-antenna for simple, interference free usage
- Vibration-proof crystal socket system
- Works with your standard pair of FM crystals

Please read and understand these instructions completely before you use this product! With operating this product, you accept the LRP warranty terms.

TECHNICAL DATA

Product	Phaser Sport 27	Phaser Sport 35	Phaser Sport 40	Phaser Sport 75
Order No.	88270	88350	88400	88750
Frequency Band	27Mhz	35MHz	40MHz	75MHz
Dimensions (L x W x H)	43.7x28.7x17.7mm			
Weight	18g			
Reception method	FM			
No. of channels	4			
IF Frequency	455kHz			
Voltage Range	4.8-6.0V			

Specifications subject to change without notice.

MOUNTING TIPS

- Mount the antenna holder as close to the receiver as possible. A long wire may cause interference.
- Do not attach the antenna directly on metal- or carbonfibre-chassis; only use antenna holders made out plastic and not metal or aluminium.
- Do not use antenna tubes made of metal or carbonfibre.
- You can assume that any current-carrying device will cause interference! Mount the receiver and antenna as far away from the motor, speed-control, batteries and power-wires as possible. Interference is a type of radio wave and is emitted from all high-power electric devices. This is why the effect of interference is magnified when the receiver/antenna is located close to those devices.
- Do not bundle the antenna wire together with other wires. Do not wind-up the antenna wire around the antenna tube. This may reduce reception power and you may lose control over your model.
- Never shorten the antenna wire (it must be a minimum of 30cm/12inches, loss of warranty if you shorten the wire!).

ELECTRIC MODELS

- Pay particular attention to the installation position of the components. Place speed-control, motor, batteries and power-wires as far away from the receiver as possible.
- If you attach the receiver to the chassis or the radio tray, use 2-layers of double-sided tape to dampen the receiver against vibration and impacts.
- Make sure the crystal is located on the upper side of the receiver, as far away from the chassis as possible, when you mount it in a „standing position“.

GAS POWERED MODELS:

- Do not mount the receiver on the chassis or radio tray. Vibrations may cause faulty operation and could even damage your receiver.
- Use either the holder supplied with your kit or use dampening material such as sponge rubber as the receiver base.

REPAIR / LIMITED WARRANTY

REPAIR PROCEDURES / LIMITED WARRANTY

All products from LRP electronic (hereinafter called "LRP") are manufactured according to the highest quality standards. LRP guarantees this product to be free from defects in materials or workmanship for 90 days from the original date of purchase verified by sales receipt. This limited warranty doesn't cover defects, which are a result of normal wear, misuse or improper maintenance. This applies among other things on:

- Antenna wire cut off or damaged
- Mechanical damage of the case
- Humidity/Water inside the speed control
- Mechanical damage of electronic components/PCB
- Soldered on the PCB
- Reverse polarity

To eliminate all other possibilities or improper handling, first check all other components and the trouble shooting guide before you send in this product for repair or warranty. Products sent in for repair, that operate perfect have to be charged with a service fee.

By sending in this product, you assign LRP to repair the product, if it is no warranty case. The original sales receipt including date of purchase needs to be included. Otherwise, no warranty can be granted. For quick repair- and return service, add your address and detailed description of the malfunction.

Our limited warranty liability shall be limited to repairing the unit to our original specifications. In no case shall our liability exceed the original cost of this unit. Because we don't have control over the installation or use of this product, we can't accept any liability for any damages resulting from using this product. By installing or operating this product, the user accepts all resulting liability.

The specifications like weight, size and others should be seen as guide values. Due to ongoing technical improvements, which are done in the interest of the product, LRP does not take any responsibility for the accuracy of these specs.

LRP-DISTRIBUTOR-SERVICE:

- Package your product carefully and include sales receipt and detailed description of malfunction.
- Send parcel to your national LRP distributor.
- Distributor repairs or exchanges the product.
- Shipment back to you usually by COD (cash on delivery), but this is subject to your national LRP distributor's general policy.