

PowerBox Systems

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Power Supply Systems

PowerBox RRS

Operating Instructions



1. Connect your PowerBox to the RRS module. It is up to you to decide which channels you wish to use for your model's functions.
2. Using the RRS module does not affect any settings at the transmitter or receiver, or any programming you have carried out to the PowerBox Champion; no particular adjustments are required in order to operate the RRS module. All you have to do is program the Fail-Safe function to a particular channel at the transmitter if you wish to use PCM receivers.
3. Place the RRS module in front of you with the screen at the top, so that the inscriptions can be read. You will now see sockets 1 – 7 for the PowerBox at the bottom; they are labelled "Channel output". On the right are sockets 1 – 7 and "FS" (Fail-Safe channel) for receiver "RX 1", and on the left are sockets 1 – 7 and "FS" for receiver "RX 2".
4. Important: all the channels of both receivers which are plugged into the RRS module must also be connected in the correct numerical order. This means: channel 1 of receiver "RX 1" must also be channel 1 of receiver "RX 2".
5. Positioned slightly apart from the seven channel inputs you will see the "Fail-Safe" sockets for both receivers. This socket is occupied by the receiver channel which you have programmed as the Fail-Safe indicator at the transmitter.
6. The Fail-Safe channel must be programmed in such a way that it switches from 0% to -100%, or from 0% to +100%, if the Fail-Safe system is tripped. It is essential to read the transmitter manufacturer's programming information relating to this.
7. Connect both receivers to the RRS module using the patch leads supplied in the set, then switch the transmitter on: the module screen will now display a small arrow adjacent to the two numbers "1" and "2". One arrow will be in inverse video (black background), while the other will be empty. The black arrow indicates the current status, i.e. the receiver which is actually supplying the received signal. It is important that an arrow is present adjacent to both numbers, as this shows you that both receivers are working properly.

8. If you only see a dot adjacent to one or both numbers, then the corresponding receiver is not picking up a transmitter signal. Check the transmitter, and check the frequency channel.
9. To check whether all channels of both receivers are correctly assigned, disconnect the Fail-Safe signal lead from the appropriate socket on the RRS, first on one side (one receiver), then the other; when you do this all seven connected channels must always continue to operate correctly. At this point please check that all the control surfaces are working properly; do this conscientiously, and check the direction of travel (sense) in particular.
10. If you are using PPM receivers, check that the RRS module is functioning correctly by disconnecting channel "1" from the receiver or from the RRS module; a black arrow should now be displayed adjacent to one of the two numbers, and only a dot adjacent to the other number. Check carefully that all the control surfaces are working properly, and check the direction of travel (sense) in particular.
11. Re-connect the channel "1" lead, and repeat the procedure with the second receiver. Once again, check all the control surfaces and the directions of travel. When you are satisfied, re-connect channel "1".
12. This completes the set-up and checking procedure, and you are ready to fly your model with two receivers offering redundancy, i.e. twice the usual level of safety.

We hope you have many successful flights with your new system.

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