OrangeRx R620 6CHs DSM2+S.BUS Receiver Manual

Brief:

OrangeRx R620 is the second product integration of DSM2 and S.Bus technology on one board, it's small and light, which allows the opportunity to use S.Bus compatible items to DSM2 users, now, DSM2 users also can use S.Bus type Servos, Gyros, and Flybarless systems etc.

Features:

Modulation: DSM2
Resolution: 1024 or 2048(depend on your radio)
Channels: 6chs+S.Bus (S.Bus out channels depends on your radio's, but max is 14channels)
Voltage Range: 3.5V~7.0V
Sat Port: 1 (DSM2 remote receiver only)
Fail Safe types: Two (Smartsafe or Preset Failsafe)

Binding:

Insert the bind plug in BIND/S.BUS port. Then power on receiver, LED flashes, indicating that this receiver is in bind mode and ready for binding to your transmitter. Check your Tx manual for binding instructions.

Fail Safe Setting:

There are two fail safe modes. One is Smartsafe, the other is Preset fail safe. Both are described in Spektrum's receivers' manual, e.g. AR9000 User Guide. Please read it carefully if you have no experience of Smartsafe or Preset Fail Safe. For R620, pick the failsafe mode when Binding.

Setup details as below:
Smartsafe Mode: Insert bind plug and power on receiver, LED flashes, if you leave the bind plug connected after binding successfully, you will have Smartsafe mode by default. Which means if signal is lost, your Throttle channel (CH1) will return to the position that was set during binding, and the others remain at the position prior to loosing the signal.
Preset Fail Safe Mode: Insert bind plug and power on receiver,LED flashes, remove the bind plug form the port immediately, LED still blinks slowly as binding is not completed,yet. Set the radio channels to your desired position in the event of a signal loss (failsafe) situation. Power on Tx to complete the binding process. You will now have Preset Fail Safe mode set up. Which means after loss of signal, all channels will return to your preset positions as set when binding.

S.Bus

S.Bus is a type of multi channels signal out mode. It's been available on Futaba systems before, but most DSM2 users are unaware of this, so, we suggest you read a Futaba manual ,like the R6108SB one, to get the basic information on S.Bus.
S.Bus port sends a signal out when R620 starts working, it should require no further set up. Just plug in your S.Bus equipment and use it. Please note: some S.Bus equipment requires the setting up of the working channel number first, like Futaba's S.Bus servos. By using R620, you can set your S.Bus servos' own working channel, here is the way:

S.Bus servo channel setting mode.

Insert bind plug in BIND/S.BUS port.
Connect the S.Bus servo in correct channel you will use.

Power on receiver. (DON'T power on your Radio).LED flashes fast, it's now in Mode A. You can pick your S.Bus servo's working channel number from CH1 to CH6. If you remove the bind plug , LED starts flashing slowly, it's now in Mode B. You can set your S.Bus servo to work on CH8 to CH14.(please note, DSM2 radios did not have CH13 or CH14 until now).