

Repeaters

UHF repeaters are special transmitting/receiving stations that are usually located in high areas to allow extended coverage. These stations, which are usually owned by businesses, farmers and clubs, allow UHF users to use them to re-transmit their signal. It works when you press your microphone button with the “Duplex or Repeater” button selected also. You must transmit between channels 1 to 8 because the “Duplex or Repeater” selection will add 30 channels and will now transmit to channels 31 to 38 on the repeater. The repeater, which previously collected the signal on 31 to 38, then switches to its output channel 1 to 8 to transmit simultaneously to say another radio user on the other side of the hill.

This can be hard to describe with words but if you can picture a device that needs two frequencies to work and it needs to keep these input and output frequencies as far apart as possible to allow the simultaneous receive and transmit (i.e. 31 to 38 for the repeater's input and 1 to 8 for the repeater's output). The further apart these two frequencies, the easier it is to keep the transmitter circuitry from interfering with the receiver circuitry. Therefore, you should not transmit to a repeater on channels 31 to 38. Please respect the fact that repeaters are erected and maintained by private individuals and you should keep the usage relatively short.

UHF Radio Channel Allocation

Below you will find a list of UHF Radio channel allocations. There are many channels that have been established by law including the Emergency channel 5 and the data transmission channels 22 and 23.

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| 1 to 8 | These channels, established by law, can be used when sending a signal to a repeater which will help increase the communication distance. |
| 5 | This channel, established by law, used by anyone, only in an <u>EMERGENCY</u> situation. |
| 9 | Used for conversations. |
| 10 | Used by 4WD enthusiasts, clubs, convoys and in national parks. |
| 11 | Calling channel. This channel, established by law, is used to call or locate another station. Parties will then switch to another channel to continue with their conversation. |
| 12 to 17 | Used for conversations. |
| 18 | Holiday maker’s communication channel (e.g. when in a convoy). |
| 19 to 21 | Used for conversations. |
| 22 and 23 | These two channels are used for data transmissions and is established by law. Voice transmissions are not allowed on these two channels. |
| 24 to 30 | Used for conversations. |
| 29 | Highway Communications mainly used by truck drivers and other highway users. |
| 31 to 38 | These channels, established by law, are received by a repeater and re-transmitted on channels 1 to 8 to help increase the communication distance. |
| 35 | Can be used in case of Emergencies also. |
| 39 | Used for conversations. |
| 40 | Highway Communications mainly used by truck drivers and other highway users. |