

Radio Frequencies

Frequencies are a particular problem for the club as each boat must have a different frequency in order to sail at the same time. For a new member, or a new boat, It is not only necessary to determine frequencies that are not currently in use, but also to locate where they can be purchased.

Some shops do have a small range of crystals available as pairs (note that you will need a matching TX transmitter and a RX receiver) and other frequencies may only be available in complete RC kits.

It is usually necessary to negotiate between the shop(s) and Peter Andrews, who maintains the master frequency list, in order to ensure that a free frequency can be purchased.

Officially there are specific channels in each band with a separation of .025, as in this list, but other frequencies can be used as long as there is a separation of .010 or more. is not known whether these frequencies are available or even have been made.

Certain bands and frequencies are reserved for aircraft only, for example 35MHz, and others are not legal for use in New Zealand even though you may be able to buy them here, such as 53MHz.

Unfortunately, members who leave the club or sell their boats take their crystals with them, so even when they free up a frequency it is not always possible to buy another set of crystals to use that.

2.4GHz RC sets are becoming more affordable and these do not have fixed frequencies as they can search for a free channel. This generally solves the problem as there are 79 channels that can be used though some sets made for aircraft use two channels to ensure reliable connection, they are somewhat more vulnerable than boats.

band	frequency	colour code	flag(s)	band	frequency	colour code	flag(s)	
25 MHz UK USA Europe S. Africa Rhodesia Canada New Zealand	26.975	black	■	53 MHz Europe USA	53.100	brown/black	■ ■	
	26.995	brown	■		53.200	red/black	■ ■	
	27.020	brown/red	■ ■		53.300	orange/black	■ ■	
	27.045	red	■		53.400	yellow/black	■ ■	
	27.070	red/orange	■ ■		53.500	green/black	■ ■	
	27.095	orange	■		72 MHz Europe USA	72.080	brown/white	■ □
	27.120	orange/yellow	■ ■			72.160	blue/white	■ □
	27.145	yellow	■			72.240	red/white	■ □
	27.170	yellow/green	■ ■			72.320	violet/white	■ □
	27.195	green	■			72.400	orange/white	■ □
	27.220	green/blue	■ ■			72.640	green/white	■ □
	27.245	blue	■			72.960	yellow/white	■ □
27.270	blue/grey	■ ■	29 MHz AM Australia	29.745		black	■	
35 MHz Europe New Zealand	34.40	yellow check/black		■ ■		29.785	brown	■
	34.70	yellow check/brown		■ ■		29.825	red	■
	35.00	yellow check/red		■ ■	29.865	orange	■	
	35.30	yellow check/orange		■ ■	29.905	green	■	
	35.60	yellow check/yellow		■ ■	29.945	blue	■	
	29.985	white	■	40 MHz Europe	40.665	green check/black	■ ■	
40.675	green check/brown	■ ■	40.685		green check/red	■ ■		
40.695	green check/orange	■ ■						

