The following is based on **Anytone Radios** but the methodology is similar for other makes.

Beware & Warning

DMR is NOT Plug and Play it needs an understanding of (albeit very basic) PC and Data manipulation skills, if in doubt seek help OR source a readymade Code Plug.
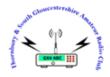
Steps	Information
Obtain Your DMR ID	Go to https://radioid.net/ You need your Call Sign for this as it will be validated. Your DMR ID will be emailed to you (anything from minutes to hours)
Radio & CPS Versions	Check Your Radio Model / Version & CPS Version **NB: The Radio & CPS Software Must Be Compatible!** Ideally load latest version(s) from manufacturers support site. https://support.bridgecomsystems.com/product-support
Enter Your DMR ID	Enter your personal DMR ID & Name (free text) into Radio & CPS NB: At This Stage There Is No Need To Connect Radio to CPS Enter DMR ID into Radio **[Radio – Menu – Settings – Radio Set]** Enter DMR ID into CPS **[CPS – Digital – Radio ID List]**

Connect Radio To PC & Set COM Port	Using The Radio Lead Supplied Connect Radio To PC / Laptop NB: You will need to ID the correct COM Port & select it, easy way to do this is by turning the Radio On / Off to see which COM Port becomes active **[CPS – Set – Set Com]**
Read Current Radio CPS	This action applies to initial setting up and importantly when updating your CPS (configuration) Download current Radio Data into CPS and save to a file for possible retrieval later if you need to revert to earlier version etc. **[CPS – Program – Read From Radio]** NB: File names should observe good housekeeping (for example I use the format (YYYY-MM-DD File Name) – this allows me to file in date order.

Load DMR Contacts (Optional)	It is not essential to download and load into Radio but if you don't you will only see the DMR ID of someone you are talking to with no names or Callsigns. Download from one of these sources (there are others!). The first two below enable choice of countries but require subscriptions, the third is free (in all cases you will need to know your Radios capacity for contacts). If you are using RT Systems CPS this can be done within the program and subscription free (but of course there was an initial purchase cost of the RT version). In all cases be sure you choose the download suitable for your Radio and know it's the memory capacity in terms of Contacts it can hold. https://radioid.net/ https://www.amateurradio.digital/index.php http://www.dmrcontacts.com/ Once downloaded store the csv file for future use, again give the file a meaningful name for future reference.
Enter Contacts	Enter your chosen Contacts File into CPS **[CPS - Tools – Import]** NB: This is the file you downloaded and stored. Again be sure of your Radios capabilities, the more you load the longer it will take so maybe just start with UK. Also be aware some radios may not have sufficient memory for all Contacts in the World so in that case restrict to chosed countries (ie UK or Europe)

Enter Talk Groups	Enter your chosen Talk Groups (TG's) **[CPS – Digital – Contact/Talk Group]** Keep it simple for now and restrict the amount of data you enter until you become proficient! Example South West Cluster Talk Groups TG 9 on TS 1 for Local Repeater TG 950 on TS 2 Access to South West Cluster Networked Repeaters
Enter Channels	Enter your chosen Channels **[CPS - Common Setting – Channel]** Example South West Cluster Channels GB7AA (TG9): RX 439.67500, TX 430.67500 CC 1 Slot 1 GB7AA (TG950): RX 439.67500, TX 430.67500 CC 1 Slot 2
Zones	Enter Zones NB: <u>All</u> services i.e. Repeaters Digital and Analogue etc. must reside within a Zone or the Radio will not find them! For example Two Zones one called Digital and another called Analog (your choice) **[CPS – Common Setting – Zone]** Now double click on each Zone and move your desired Channels into appropriate Zone

Save & Write	Save & Write To Radio
	Save your CPS data into a config file for possible later retrieval.
	[CPS – File – Save As]
	Then Write your Code Plug to your Radio
	[CPS – Program – Write To Radio]
	Your done except you may have to fine tune your Radio to suit your preferences – once you get used to this those settings can be saved into your Radios CPS Config file
	NB: I can not stress enough times you will make mistakes in the early stages so adopt good housekeeping of data so you can revert back to an earlier version of Code Plug that worked.