

## Setting up your new DMR handle ...

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You probably already have FM sorted out, so we won't dwell on that.

For digital you have several different things to worry about. So, as an example, let's look at getting you setup with GB7WD the Salop Cluster which now comes with added Brandmeister! It's exactly the same for GB7GT, CC, BJ, BX, and OZ, just change the TX and RX frequencies.

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First of all, you will need to setup three channels. They will have the same TX freq, RX freq & Colour Code; we'll call them **"WD Slot 1 Local"**, **"WD Slot 2 Local"** and the other **"WD Cluster"**.

TX = 430.7125  
RX = 439.7125  
Colour Code = 11 (that's the digital equivalent of CTCSS)

Now the hard bit:

You'll need to setup two new Digital Contacts (might be Contacts, then Digital)

- (1) A "Group Call" called DMR-Local with a value of 9
- (2) A "Group Call" called DMR-Cluster with a value of 75

You'll then need to setup two Digital Group Call Lists (might be Group Lists, then Digital)

- (1) A "Group Call List" called Local which has DMR-Local in the list
- (2) A "Group Call List" called Cluster which has DMR-Cluster in the list

Now to finish off the channels:

### **"WD Slot 1 Local"**

TX = 430.7125  
RX = 439.7125  
Colour Code = 11  
**Slot = 1**  
**Contact name = DMR-Local** (that's for the TX side)  
**Group list = Local** (that's on the RX side)  
Timeout = 180 seconds

### **"WD Slot 2 Local"**

TX = 430.7125  
RX = 439.7125  
Colour Code = 11  
**Slot = 2**  
**Contact name = DMR-Local**  
**Group list = Local**  
Timeout = 180 seconds

### “WD Cluster”

TX = 430.7125

RX = 439.7125

Colour Code = 11

Slot = 1

Contact name = DMR-Cluster

Group list = Cluster

Timeout = 180 seconds

You’ll also need to setup the “Admit Criteria” for each channel. It should be something like “Follow Colour Code” or “Colour Code Free”, but if all else fails use “Always” but this isn’t recommended on repeaters.

If you get it wrong you’ll find you can’t transmit until the repeater drops out.

Finally, you’ll need to add a handful of new Private Calls (again, this might be Contacts, then Digital)

- A “Private Call” called “UK Wide” with a value of 4400
- A “Private Call” called “Wales” with a value of 4407
- A “Private Call” called “South West” with a value of 4410
- A “Private Call” called “West Mids” with a value of 4418
- A “Private Call” called “East Mids” with a value of 4419
- A “Private Call” called “WiresX” with a value of 4420
- A “Private Call” called “AllStar” with a value of 4426
- A “Private Call” called “Unlink” with a value of 4000
- A “Private Call” called “Status” with a value of 5000
- A “Private Call” called “Parrot” with a value of 9990

A full list of active reflector IDs is available on the Brandmeister website.

To connect to a reflector, go to **Slot 2 Local** (Talkgroup 9), select the private call and press the PTT ... you’ll then hear Gladys at Brandmeister HQ repeating the reflector number back to you. Let the call drop, then just transmit as normal. If the repeater doesn’t get any RF signals within 900 seconds (fifteen minutes in old money) it automatically disconnects the reflector and reverts to the default.

**\*\*\* By default Slot 2 / Talkgroup 9 is connected to the West Midlands reflector (4418) \*\*\***

A private call is simply a transmission made to a specific DMR ID. There are a number of special DMR IDs used for reflectors, the common ones are listed in the table below. On some radios it is possible to enter the DMR ID directly using the keypad, whilst others will require you to create an entry in the digital contacts list and then select it from the menu.

To check which reflector is connected, select the “Status” private call (5000) and press the PTT.

To the disconnect the reflector, select the “Unlink” private call (4000) and press the PTT.

To check your own transmission, select the “Parrot” private call (9990) and talk. Your voice will be repeated back to you. This feature works on both Slot 1 and Slot 2.

While you are at it, programme a few Simplex channels too:

DH1 438.5875  
DH2 438.6000  
DH3 438.6125 (calling channel)  
DH4 438.6250  
DH5 438.6375  
DH6 438.6500

Simplex channels are usually setup as:

Slot = 1  
Contact name = DMR-Local  
Group list = Local  
Admit Criteria = Always

See how you get on with that!

<https://salop-repeater.weebly.com/>