DMR Programming Tips by Radioddity

This guidance works for GD-77/RD-5R/GD-77S/MD-380/MD-390

Version Note

GD-77:

Firmware V2.6.6 is compatible with software V1.1.3-1.1.6 Firmware V3.0.1-3.0.8 is compatible with software V2.0.1-2.0.8 Firmware after V3.1.1 is compatible with software after V3.1.1 **RD-5R:** Firmware V1.0.0.1 is compatible with software V1.0.0.1 Firmware V1.0.0.2-V2.00.09 is compatible with software V1.0.0.2 **GD-77S:** Firmware V1.1.5 is compatible with software V1.1.7

How to find out firmware version:

GD-77---turn on---menu---set----radio info----dev.info----soft-version: V X.X.X. RD-5R---turn on---menu---set----radio info----dev.info----soft-version: V X.X.X. GD-77S---operate via software---Basic information: Firmware version

🖳 Basic Information		
	Frequency Range 1 [MHz]	400 - 470
	Frequency Range 2 [MHz]	136 – 174
	Last Programed Date	2018/2/2 10:05
	Model Name	GD-77S
	Serial Number	
	CPS Version	
	Mardware Version	
	Firmware Version	V1.01.01
	DSP Version	HRC6000 V1.2.6

Confirm software version: software--- About:

🖶 About		—	\times
		_	
	v1.1.7		
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	OK		

Compatibility:

 Software of different models are not compatible with each other. You can't use software of GD-77s to program GD-77 or RD-5R.
 Programming cable compatibility The same cable works for DG-77, GD-77S, MD-380, MD-390

RD-5R can only use RD-5R programming cable

Before Program:

What you need: a correct cable, radio with enough battery power, a PC / laptop with Windows system

For RD-5R/GD-77/GD-77S:

1. Turn on your PC: install the corresponding software. (Software should be compatible with firmware)

There are 2 kinds of installation package (both work)

1) Unzipped---run xxx.exe directly

😵 Chinese.chm	62.9 KB	46.6
🖹 Chinese.xml	28.4 KB	6.5
Default.dat	128.0 KB	1
DMR.exe	588.0 KB	232.2
DMR.vshost.exe	14.5 KB	6.5
DMR.vshost.exe.manifest	1 KB	1

2) Installation Setup---double click to run Setup (Note: Some installation file might be taken as virus by your security software, thus been isolated. Please restore it. We promise all the software downloaded from <u>www.radioddity.com</u> are well tested.)

)-77 Firmware And Software ... > Program software VE



2. Run the software:

🖳 Pro	gram Softw	are							
<u>F</u> ile	Setting	Program	View	Language	Window	About			
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TreeVi	ew		Ļ	×					
	GD-77 GB-87 General General General General General General Contact	information :em Setting : :ssage , ng System : up List							
HelpV	iew								

3. Plug the programming cable into your PC / laptop. (All the digital radios apply the latest programming chip, it will automatically install the driver and support WIN XP/ 7 /8 /8.1 /10) for the first time, it will take 1-3 minutes to install the driver automatically, please be patient. Note: If fail to install the driver, please try changing a USB port. If it still fail to install: 1) Please check if the USB driver work well. 2) If it's not a PC problem, please contact our customer service.

4. Turn on radio to a standby status.



5. Plug the programming cable into the radio.

Start to Program

Analog Mode – Channel Mode Setting

1. Read frequency; click read data icon



2. Channel setting

1) Double click CHANNEL, you can EXPORT or IMPORT channel infos in bulk.

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<u>File</u> Setting Program	View La	anguage Wir	ndow About	t								
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	^	Channels	;									
🗄 🚞 Signaling System												
🗈 🔚 Contact												
Harris Kx Group List		Analo	pg ,	Add			Clear			Export	Imp	oort
E Channel			•									
Channel1											Color	
- Channel2			Number	Name	Rx Freq	Tx Freq	Ch Mode	Power	Rx Tone	Tx Tone	Code	Rx Group List
An Channel 3											Code	
Channel 4		▶1	1	Channel1	144.02500	144.02500	Digital	High	None	None	0	GroupList1
An Channel5		2	2	Channel2	144.12500	144.12500	Digital	High	None	None	0	GroupList1
Channel6		3	3	Channel3	144,25500	144,25500	Digital	High	None	None	0	GroupList1
Channel?			-	Channel4	144 22500	144 22500	Digital	High	Nono	Nono	0	Croupl ict1
an Channel9		4	4	Channel4	144.32300	144.32300	Digital	nign	NOTE	None	U	GroupList
Channel10		5	5	Channel5	144.42500	144.42500	Digital	High	None	None	0	GroupList1
Channel 11		6	6	Channel6	144.52500	144.52500	Digital	High	None	None	0	GroupList1
- Channel 12		7	7	Channel7	144 62500	144 62500	Digital	High	None	None	0	GroupI ist1
In Channel 13				Channell	144 70500	111.02000	Digital	Lligh	None	Nana	0	Occupiett
- Channel 14		8	0	Channelo	144.72500	144.72500	Digitai	High	None	None	U	GroupList1
Channel15		9	9	Channel9	144.82500	144.82500	Digital	High	None	None	0	GroupList1
Channello		10	10	Channel10	144.92500	144.92500	Digital	High	None	None	0	GroupList1
- Channel 18		11	11	Channel11	145 02500	145 02500	Digital	High	None	None	0	Groupl ist1
Channel 19	~	<		Sharnerti			. Drighten				Ĭ	stoupentt

2) Channel edit. Double click CHANNEL1, CHANNEL2, CHANNEL3...all channels need to be edited respectively (channel name can be customized).

eView	₽ × [
Privacy	^	🖳 Channel		
🗄 🛅 Signaling System				
E- Contact				
🗄 🧀 Rx Group List				
💼 💼 Zone		Mode Analog Py Freq (MHz) 144 02500 >> Ty Freq (MHz)	144 02500	Admit
📄 🧀 Channel			144.02300	Aumit
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M Channel2		Digital		
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Channelb		Analog		
Channel 7		Analog		
Channelo		Randwidth [KHz] 12.5		
Channel 10				
Channel 11		STE Frequency		
Channel12		Digital		
		Non STE None ~ Digital		
Channel 14			Drivoov	0#
Channel 15			Privacy	OII
		Dy Tana Mal Nana Ty Tana Mal Nana	Privacy Group	5347
		RX IONE [HZ] None V IX IONE [HZ] None V	, macy oroup	0.041
Channel 18		Rx Signaling Off	Rx Group List	Grou
- Channel 19	× <			

- 3) Select Analog mode, then start to edit the needed info like RX/TX freq, VOX, bandwidth, etc.
- 3. Scan setting.
- 1) Scan function will take up some spaces, thus it can't work when double standby is on.
- 1. Menu----Double Standby----Double Single

or

2. Uncheck DOUBLE STANBY

File Setting Program View Language Window About Image: Setting Image: Seting Image: Setting Image: Setinge			
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TreeView Image: Context term Image: Context term Basic Image: Context term Basic Image: Context term Basic Image: Context term Scan Image: Channel 1 Contact Image: Channel 2 Contact			
Image: Contract Image: Contact Imag			
Image: Second secon	Key Tone Backlight [s] Keypad Lock Time [s] ck Channel Display	On Always Open Manual Frequency Double Single	> > >

2) Scan list setting (put the frequency you want to scan into the scan list)



3) Choose a scan list

ree\/iew	ПX							<u>`</u>	· · · · · · · · · · · · · · · · · · ·	
General Setting	^									
		IN A D DI + X -								
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H Signaling System		ig ∨ R	x Freg [MHz]	144.02500	>>	Tx Freg [MHz]	144.02500	Admit Criteria	Always ~	
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Channel 3									Allow Talkaround	
Channel 4									Ry Only	
Channel 5										
Channel 6		Bandwidth [KHz]	12.5	\sim						
- Channel 7			-							
Channel8		STE	Frequency							
Channel9		Non STE	Nono	~		Digital				
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Channel 14		Tone [Hz] None	✓ Tx	Tone [Hz]	None ~		Privacy Group	53474C39	\sim	
Channel15		Signaling					Rx Group List	GroupList1	\sim	
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4) Turn on scan function: Buttons---SK1/SK2---Scan On/Off

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	📄 Rx Group 🗎 Zone	p List				SK2	Battery Indicator	~	High/Low Power	\sim	
Ģ	Channel					тк	Emergency Off	~	Emergency On	\sim	
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	- Chan	nel8			2					-	L
	- Chan	nel9			<u>э</u>						
	Chan	nel10			4						

4. Zone selection (choose zone for your set channel, name zone 1, 2, 3...they can be customized)

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Privacy			Available		Member	
🗄 🚞 Signaling System						
🕀 🧀 Contact			Channel1		001:Channel17	
🕀 🧰 Rx Group List			Channel2		002:Channel18	
🖨 🚞 Zone	-		Channel3		003:Channel19	
Zone1			Channel4		004:Channel20	
Zone2			Channel5		005 Channel 21	
Zone3			Channel6		006:Channel22	
Chappel			Channel/	Add	002:Channel23	
			Channel9	Add	000.Channel24	
- Channel2			Channel10		010:Channel26	
			Channel11	Dolot	011:Channel27	
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- In Channel5			Channel13		013:Channel29	
Channel6	1		Channel14		014:Channel30	
m Channel7	× .	<				

Analog Mode – VFO Mode Setting

1. VFO----Select VFO---- Select Analog

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Channel19	^	Mode	Analog	Dy Erog [MH7]	437 70000	Ty Erog [MHz]	437 70000
- Channel 21		wode	Analog V	RX FIEQ [IVITZ]	457.70000	IX Fled [MHz]	457.70000
	i i	Name	JA	Squelch	Normal ~	Power Level	High ~
Channel24 Channel25 Channel26	r					TOT [s]	00
Channel27 Channel28						TOT Rekey Delay	5
	-			Offset Step	12.5 ~		Vox
Channel 32				Offset Direction	None ~		
				Offset Freq	10.00		
ScanList3		Analog				Digital	
GenList6			Bandwidth [KHz]	25	~		Ρ
WFO B	× <			-			

2. Set infos of Squelch, Bandwidth, RX/TX fre, etc.

When finish all your settings, click write data icon (top left software corner) to start writing data into your radio.



Start to Use Your Radio

- 1. After programming successfully, pull out the cable---turn off radio---then turn on again
- 2. Apply Channel Mode: Menu---zone---select a zone---switch channel via $\uparrow \downarrow$ button
- 3. VFO Mode: switch channel via \rightarrow button for GD-77, VFO/MR button for RD-5R

Done

DMR Mode – Channel Mode Setting

1. Read data, click the read data icon



2. Confirm and edit Radio ID

TreeView	џ×	- Ruttons	
🖃 🕌 GD-77	^	🖳 General Setting	
🖉 Basic Information			
			Alort To
Menu			Alert TO
		Radio Name	e GD-77
- 🚟 General Setting		Dadio ID	00002739
		Radio IL	00002133
		Tx Preamble Duration [ms]	360 🜩
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iming System		Rx Low Battery Interval [s	40 🖶
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Zone2			Tx Inhibit Quick Key Override
Zone3			
Zone4			
		Program Password	1
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m Channel 2		vox Sensitivity	Ballery
m Channel 3			
m Channel4			
Channel5			
Channel 6			-Lone W
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3. Add your digital contact

1) CONTACT---add your contacts Radio ID

2) Double click DIGITAL CONTACT---an overview will display, you can EXPORT or IMPORT all the contact infos in bulk.

3) Double click Contact 1/2/3...to edit respectively (name can be customized).

Note:

There are 3 types of DMR Radio ID

1: Private Call (If apply Private Call ID to operate, don't need to set RX Group list)

- 2: Group Call ((If apply Group Call ID to operate, must set RX Group list)
- 3: All Call (If apply All Call ID to operate, don't need to set RX Group list)

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<u>File</u> Setting Program	View La	anguage V	Vindow About							
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Buttons			Number	Name		Call ID	Туре	Ring Style	Call Receive Tone	
Trivacy		▶1	1	Contact1		00000002	Group Call	None	On	
Contact						0001	Group Call	None	On	
& DIMF Digital Contact & Contact1	1		Digital Contact			7215	All Call	None	On	
Contact2 Contact3 The first			Name	Contact2						
Zone 			Call ID	00000001 Group Call	~					
Zone3			Ring Style	None	~					
Channel1	~	<		Call Receive	Tone					

- 4. RX Group List Setting (only needed if you set Group Call ID).
- 1) Right click to add RX Group list
- 2) Double click to edit RX Group list1/2/3/4...respectively

reeView	ųΧ			🖳 Rx Group List	
- 44 Contact1 - 44 Contact2 - 45 Contact2 - 45 Contact3 - 44 Contact4 - 44 Contact5	^	Clear]	Name GroupList1	
		Call ID	Туре	Available Member	
Contact9		0000002	Group Call	Contact6 001:Contact1	
		0000001	Group Call	Contact7 002:Contact2 Contact8 003:Contact4	
🖃 📔 Rx Group List		6777215	All Call	Contact9 004:Contact5	
🥌 GroupList1 🚳 GroupList2		0000004	Group Call	Contact10	
GroupList3		0000005	Group Call	Add	
GroupList4		0000006	Group Call		
GroupList6		0000007	Group Call		
- Zone		800000	Group Call	Delete	
Zonel		0000009	Group Call		
Zone3		0000010	Group Call		
Zone4		0000011	Group Call		
Channel1	~	<			

5. Channel Setting

1) Double click CHANNEL, you can EXPORT or IMPORT all channel infos in bulk.

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Channel Channell												0.111	
- Channel2				Number	Name	Rx Freq	Tx Freq	Ch Mode	Power	Rx Tone	Tx Tone	Color	Rx Group L
- m Channel3												Code	
- m Channel4			▶1	1	Channel1	144.02500	144.02500	Digital	High	None	None	0	GroupList1
- M Channel5			2	2	Channel2	144.12500	144.12500	Digital	High	None	None	0	GroupList1
In Channel6			3	3	Channel3	144.25500	144.25500	Digital	High	None	None	0	GroupList1
- Channel 8				4	Channel/	144 32500	144 32500	Digital	High	None	None	0	Groupl ist1
- Channel 9			4		Ohannel4	144.02000	144.02000	Digital	i iigii	None	None		OroupList
- m Channel 10			5	5	Channels	144.42500	144.42500	Digital	High	None	None	0	GroupList
-m Channell1			6	6	Channel6	144.52500	144.52500	Digital	High	None	None	0	GroupList1
- m Channel12			7	7	Channel7	144.62500	144.62500	Digital	High	None	None	0	GroupList1
Channel13				8	Channel8	144 72500	144 72500	Digital	High	None	None	0	Groupl ist1
Channel 15				0	Ohannello	444.00500	144.72000	Digital	Link	Nere	Nege	0	OroupList
- Channel 16			9	9	Channela	144.82500	144.82500	Digital	nign	None	None	U	GroupList
- Channel 17			10	10	Channel10	144.92500	144.92500	Digital	High	None	None	0	GroupList1
In Channel 18			11	11	Channel11	145.02500	145.02500	Digital	High	None	None	0	GroupList1
- Channel 19	~	<											

2) Channel edit. Double click CHANNEL1, CHANNEL2, CHANNEL3...all channels need to be edited respectively (channel name can be customized).

reeView	ąΧ					
- Se Contact9 - Se Contact10	^	Dgital V Rx Freq [MHz] 144.02500 >> Tx F	Freq [MHz]	144.02500	Admit Criteria	Always ~
Rx Group List		Channel1 Squeich Normal V Po	ower Level	High ~	Scan List	SCAN V v
- 👹 GroupList1 - 🍓 GroupList2			TOT [s]	80 *		Auto Scan
- GroupList3		TOT Rekey	y Delay [s]	5		Lone Work
- GroupList5		a		Vox		Allow Talkaround
- Zone		Bandwidth (KHz) 12.5				C RX Only
Zonel Zone2		STE Engineerin				
Zone3	- 1	Neg OTE Neg	Digita			
- Channel		NOR STE NOR		Determine	0.0	
Channel2				Privacy	Off	~
Channel3		Rx Tone [Hz] None V Tx Tone [Hz] None V		Privacy Group	53474C39	~
Channel5		Rx Signaling Off Tx Signaling System Off		Rx Group List	GroupList1	~
Channel6		Di fer Data DTTD Tuna Nana		Color Code	0	•
Channel8		PLIDI Data PLIDI Type None		Emorgonau Cuntom	0	
- Channel9	~	<				

3) Select Analog mode, then start to edit the needed info like RX/TX freq, VOX, bandwidth, etc.

4) Digital Setting

1. COLOR CODE and REPEATER SLOT should be the same with the other radio ID you want to talk to.

2. Select Contact

a. If the contact you select is Private Call or All Call, set RX Group list to NONE.

Digital

-			
	Privacy	Off	~
	Privacy Group	53474C39	~
	Rx Group List	None	~
	Color Code	0	
	Emergency System	System1	~
	Contact	Contact1	~
	Repeater Slot	1	~

b. If the contact you select is Group Call, you must select a RX Group list.

	Privacy	Off	\sim
	Privacy Group	53474C39	\sim
	Rx Group List	GroupList3	~
	Color Code	0	•
En	nergency System	System1	\sim
	Contact	Contact1	\sim
	Repeater Slot	1	~

- 6. Scan Setting
- 1) Scan function will take up some spaces, thus it can't work when double standby is on.
- 1. Menu----Double Standby----Double Single

or

2. Uncheck DOUBLE STANBY

🖷 Program Software						
<u>F</u> ile Setting Program	View Langua	nge Window About				
TreeView GD-77 Basic Information	₽ × ^ hai	ng Menu				
- Boot Item Menu Bunber Key Assign - General Setting - Buttons - Itext Message	vio Nai	Basic Menu Hang Time [s] 10 → ☑ Information	Basic ☑ Talkaround ☑ Tones/Alerts ☑ Power	Key Tone	On	~
Frivacy Signaling System Contact Rx Group List Zone Charaol	A	Scan Scan Edit List	 ☑ Backlight ☑ Intro Screen ☑ Keypad Lock ☑ LED Indicator 	Backlight [s] Keypad Lock Time [s]	Always Open Manual	~
Channel1 - m Channel2 - m Channel3 - m Channel4 - m Channel4 - m Channel6 - m Channel6 - m Channel7 - m Channel8 - m Channel9 - m Channel9		Contact Call Alert Edit Manual Dial Radio Check Remote Monitor	Squeich Privacy Vox Password And Lock Channel Display Double Standby	Channel Display Double Standby	Frequency Double Single	~

2) Scan list setting (put what frequency you want to scan into the scan list)



	✓ Talkback
	Channel Mark
Tx Designated Channel	Last Active Channel ~
PL Type	Priority and Non-Priority $ \sim$
Signaling Hold Time [ms]	1000
Priority Sample Time [ms]	2000
Priority Channel 1	None ~
Priority Channel 2	None \sim

3) Choose a scan list

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General Setting	^	N 4 D 01 + X		
	- 64			
🖶 🚖 Signaling System 🕀 🧀 Contact		g V Rx Freq [MHz] 144.02500 >> Tx Freq [MHz] 144.02	2500 Admit Criteria	Always ~
🖶 🔚 Rx Group List		nel1 Squelch Normal ~ Power Level High	✓ Scan List	SCAN V ~
Channel		TOT [s]	*	Auto Scan
Channel2		TOT Rekey Delay [s] 5		Lone Work
Channel3 Channel4		Vox	ĸ	
Channel5		Bandwidth [KHz] 12.5 ~		
Channel8		STE Frequency ~		
Channel 9 Channel 10		Non STE None ~		
Channel 11 Channel 12			Privacy Off	\sim
Channel13		Tone [Hz] None V Tx Tone [Hz] None V	Privacy Group 53474C39	\sim
Channel15	~		Rx Group List GroupList1	~

4) Turn on scan function: Buttons---SK1/SK2---Scan On/Off

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File Setting	Program Vie	ew Language	e Window	About				
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GD-77 GD-77 Basic In Menu Menu Mumber K General Mumber K General Frivacy Frivacy Frivacy Frivacy Frivacy Contact Menu Contact Channel Contact	formation m Setting sage g System List		uttons	SK1 SK2 TK	Long Press E Short P Scan On/Off Battery Indicator Emergency Off	Duration [ms] ress	tong Press Long Press Monitor High/Low Power Emergency On	
	iel2 iel3							
In Chanr	iel4		1	Mode	Call Type	Call	Text Message	
	uel5 uel6		▶1					
Chanr	uel7		2					
Chanr	lel8		3					
In Chanr In Chanr	uel9 uel10		4					

4. Zone selection (choose zone for your set channel, name zone 1, 2, 3...can be customized)



DMR Mode – VFO Mode Setting

1. VFO---Select VFO--- Select Analog

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File	Setting	Program	View	Language	Window	About							
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TreeVie	w		ņ	×									
	Char	mel19		^	_							_	
	- M Char	mel20			Mode	Analog	~	Rx Freq	[MHz]	437.70000	>>	Tx Freq [MHz]	437.70000
	Char	mel21											
	M Char	mel23		i i	Name	JA		Sq	uelch	Normal ~		Power Level	High
	- Char	mel24		1									
	Char	mel25		1								TOT [s]	80
	M Char	me126 me127											
	Char	mel28										TOT Rekey Delay	5
	- Char	mel29											-
	- Char	me130						Offset	t Step	12.5 ~			Vox
	- Char	mel32								••			
	Scan			_ 11				Offset Dire	ection	None ~			
	- 🔮 SCAB	r v						Offset	Freq	10.00			
	- SCAL	(U Jis+3											
	- 🐨 Scar	List4			Ingles							Digital	
	🔮 Sour	List5			indiog							Digital	
	- @ Scar	List6											
	VF0	*					Bandwidti	n [KHZ] 25		~			
	VFO	в		1									
				× <									

2. Edit Digital Setting

Digital		
Privacy	Off	~
Privacy Group	53474C39	\sim
Rx Group List	GroupList1	\sim
Color Code	1	* *
Emergency System	System1	\sim
Contact	Contact1	\sim

Monitor Function (Set via BUTTONS)

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TreeView	ч х							
Menu Mumber Key Assign General Setting Buttons Markov Text Message Frivacy Signaling System Contact	^	∎ <mark>⊎</mark> Buttons		Long Press D	ouration [ms]	1500		
& DTMF				Short P	ress	Long Press		
⊟ <u> </u> Digital Contact & Contact1			SK1	Scan On/Off	~	Monitor	~	
🔐 Contact2 🎇 Contact3	-		SK2	Battery Indicator	~	High/Low Power	~	
🎎 Contact4 🎎 Contact5	ł		ТК	Emergency Off	~	Emergency On	~	
🎎 Contact6 🎎 Contact7								
Contact8			Mode	Call Type	Call	Text Message		
		▶1						
Contactii	H	2						
GroupList1	-	3						
GroupList2		4						

For now, in Digital Mode, you can start monitor function when RX/TX fre, Color Code and Repeater Slot are mapped. The radio will automatically neglect the mapping of Radio ID and RX Group List.

🚆 Program Software												
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₽-I	Scan - P SCAN - P SCAN	V V							Cancel			

When finish all your setting, click the write data icon to start programming.

Start to Use Your Radio

- 1. After programming successfully, pull out the cable---turn off radio---then turn on again
- 2. Apply Channel Mode: Menu---zone---select a zone---switch channel via $\uparrow \downarrow$ button
- 3. VFO Mode: switch channel via \rightarrow button for GD-77, VFO/MR button for RD-5R

Done

Question 1. In digital mode, Radio A (GD-77/RD-5R/GD-77S) can talk to Radio B; But when Radio B transmit a signal, Radio A gets nothing.

Reason 1: Radio A ID is All Call ID, while Radio B doesn't add Radio A's ID.

Reason 2: Radio A has added Radio B's Radio ID as contact, while Radio B doesn't add Radio A.
Solution: Check the contact ID and channel setting of Radio B, set Radio A as a contact.
Reason 3: Radio B has turned on the Monitor function, while Radio A doesn't. Hence, both A and B don't add the other as a contact.

Solution: Check the contact ID and channel setting of Both Radio A and B.

Question 2. In digital mode, both Radio A and B add the ID of each other. but they still cannot communicate.

Solution: Check if select Group Call in contact; Check if the selected channel setting is related to Group Call.

Question 3. In digital mode, monitor function doesn't work. Solution: Check Menu----Double Standby----Double Double, change Double Double to Double Single.

Question 4. In analog mode, the radio lacks the 1750 tone of EU repeater.

Solution: GD-77 analog mode, press PTT button + \leftarrow button; RD-5R analog mode, press PTT button + A/B button.