



G1 SCBA Radio Pairing Guide for Harris[®] XL-185P | XL-200P

Harris XL-185P XL-200P Configuration Settings	2
Creating a G1 SCBA Configuration Tag (for Bluetooth Pair Save Preferences)	;
Creating a Harris XL-185P XL-200P Radio Pairing Tag	5
Pairing a G1 SCBA and Harris XL-185P XL-200P Radio	3
Using the G1 SCBA and Harris XL-185P XL-200P Radio 10)
Clearing Radio Pair Info from the G1 SCBA 11	L
Clearing SCBA Pairing Info from the Harris XL-185P XL-200P Radio 12	2
Troubleshooting 13	5



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		Harris XL	-185P XL-	-200P Coi	nfigurat	tion Settin	gs		
Step 1.	Obtain Radio Personality Manager 2 (RPM2) software from the								
Step 2.	Harris Technical Assistance Center (TAC): 1-800-528-7711 (Opt.3) PSPC_TAC@harris.com Open the Harris RPM2 Software								
Step 3.	Connect the programming cable to the portable radio:							99»———	
	(A) Hook the p	in side of th	e connector ir	the radio's	notch.				
	(B) Attach the connector with the Thumb screw.						9		
Step 4.	Insert the USB end	of the cable	in the compu	ter that is r	unning RP	PM2.		R	
Step 5.	Turn on the Radio (using the vo	lume knob.						
Wait a few seconds for the screen to illuminate and start-up to complete.					HARDES'				
	 (B) If not automatically selected, select the USB communication type. (C) The Radio should show in the Connection list. 								
		Personality				Connections: 1	1 Personalities: 1		
	Connection	MRU ESN	Radio Name	Radio Type	Firmware	Manage Personality	on the Radio		Help
	A40302000721	NA	MSA_Radio_2	XL-Portable	R06A15	Radio Persona	alities	Remove	
						MSA G1		Remove Activ	e 🗸
Step 7.	Set a unique Bluetooth pairing 'friendly name' for the connected radio :					radio:	RPM2 Update	Friendly Name	×
	(A) Select the "Radio Name" Icon						Connection	Radio Name	
	(B) Key in desired name.						A40302000721	MSA_Radio_2	
	(C) Click the "Write Name to Radio" Button.							Write Name To Radio	
Step 8.	Load the Radio's " Personality " (its configuration) into RPM2 (for editing):						Personalities	Re	
	(A) Check the box for the active personality on the connected radio.						MSA G1		
	(B) Click the "Read Selected" Button						Write to Radio 👔 📢 Read Selected		



Step 9.	The Personality will load into RPM2 in a new tab.					
	• Save this Personality to the local computer (to write to other radios	RPM2 File Radio Tools He				
	later) by opening the "File" menu, and choosing "Save as"	n e d MSA G1 ×	↑			
	File Radio Tools Help	MSA G1	MSA G1			
	C+ New	XL-Portable	Author			
	Save	🦉 ZONES				
	Save As	0 ₂ 0 systems (2)	Description			
	• Use the "Save" Icon (or the File menu and "Save" item) to save your	(ge SEIS (3)				
	changes to the personality.		Active Radio Types and XL-Portable			
		Accessory Device	Effective Bandsplit.			
Step 10.	(A) Click on the Personality's " Options " Section to expand it.		_			
	(B) Choose the "Audio Settings" item.	Audio Settings	_			
Step 11.	Under "Audio Settings" > "Audio Menu Settings" and:					
	(A) Check "Speaker"	MSA G1 > Options > Audio Settings				
	(B) "Noise Cancellation" OFF (unchecked)	Audio Settings				
	In the "PTT Options" of the same "Audio Menu Settings" section:	Audio Menu Settings				
	(C) Check "PTT"	Speaker	~			
	(D) Select "Accessory Only"	Noise Cancellation				
	If the Harris radio is equipped with a Harris FSM Speaker, the Rx audio will	Noise Cancellation Type	e 🔘 Method A			
	always be routed to BOTH the Harris FSM speaker AND the MSA G1 lapel speaker. If desired, the firefighter can turn off the G1 Lapel Speaker (in	Noise Suppression				
	order to only play audio through the FSM speaker) by depressing the G1	Voice Assist Mode				
	If the Herris radio is NOT equipped with a Herris ESM speaker, the audio	PTT 🔽				
	will not play through the radio speaker if the G1 Lapel Speaker is turned	 Radio and Accessory • 	Accessory Only			
	off; The G1 Lapel Speaker should be left ON in this situation.					
Step 12.	Scroll down to "Bluetooth Microphone" options and:					
	Harris recommended settings are:	MSA G1 > Options > Audio Settings				
	(A) Enable (check) "ALC"	Bluetooth Microphone				
	(B) "ALC Max Gain" can be left at "6" (dB)	ALC	~			
	(C) Set "Mic Gain" to "8" (dB)	ALC Max Gain (dB)	6			
			•			
	Consult your Harris radio technician before making adjustments to the recommended settings.	Mic Gain (dB)	8 🕌			







G1 Blue Setting	creating a G1 SCBA Configuration Tag (for Bluetooth Pa	ir Save Preferences)
The pur	pose of this section is to: (1) enable the Bluetooth radio on the G1 SCBA and (2) to set Bluetooth Pair Save behavior based on the c	department's preference.
Step 1.	Launch the MSA A2 Software.	A2
Step 2.	Select the "G1 Tags" Tile on the A2 Dashboard (Under the "G1 Devices" column).	CI Tags read & write G1 Tags
Step 3.	Select tag type: "G1 Configurations"	G1 Configurations
Step 4.	Select the <u>Add</u> (+) icon (top-right hand side of A2 application) to create the configuration template, which will be used to change these 2 settings.	
Note:	Tag can be written without saving the template, but the template can be saved for future use if given a name: Mare BT Radio and PairSave The Save Icon (top-right) is enabled when the Name is filled in.	
Step 5.	 Enabling the G1 SCBA's Bluetooth Radio: (D) Expand the "Bluetooth Settings" section. (E) Change "Bluetooth Disabled/Enabled" setting to "Enabled". 	Bluetooth Settings These settings effect the bluetooth module in the device Bluetooth Disabled/Enabled Bluetooth Pair Save Disabled TIC Settings Enabled
Step 6.	 <u>Preference Choice:</u> "Bluetooth Pair Save" setting options: (Generally, a department's operating procedures will determine its preference) (A) To apply a Radio Pairing Tag every time SCBA is turned on, choose "Disabled" (B) To retain the Radio Pairing on the SCBA until it's cleared *, choose "Enabled" * - See "Clearing Radio Pairing Info from the G1 SCBA" page. 	Bluetooth Settings These settings effect the bluetooth module in the device Bluetooth Disabled/Enabled Enabled
Step 7.	 Writing the G1 Configuration Tag: (A) Place RFID Tag on the RFID Reader / Writer (B) Select the <u>Write G1 Tag</u> icon (top-right hand side of A2 application) 	
Step 8.	 Applying the G1 Configuration Tag to the G1 SCBA(s): (A) Power on the G1 SCBA (B) Press & hold either of the green Control Module buttons to activate the RFID mode. For iTIC Control modules: Press & Hold Both Green Buttons. (C) Place Bluetooth Pairing Save Tag over G1 Power Module RFID Target. The G1 SCBA is now configured with the settings: G1 Bluetooth is now enabled G1 Bluetooth Pair Save (as chosen). The G1 SCBA is now ready to accept a Radio Pairing tag. 	



Radio ID Pair Tag

Creating a Harris XL-185P | XL-200P Radio Pairing Tag

To pair the radio to the G1 SCBA, a "Bluetooth Audio Pairing Tag" needs created in the A2 Software. Once the Pairing Tag is created, it can be applied to the SCBA, which "programs" the SCBA to connect to that specific radio.

Step 1.	Launch	the MSA A2 Software	A 2
Step 2.	Select colum	the "G1 Tags" Tile on the A2 Dashboard (Under the "G1 Devices" n)	G1 Tags read & write G1 Tags
Step 3.	Select	tag type: "Bluetooth Audio Pairing Tags"	Special G1 Tags Copy Tag Erase tag Bluetooth Audio Pairing Tags
Step 4.	Ensure and the	that your PC's Bluetooth adapter is on, and selected for use in A2, at your RFID Reader/Writer is connected and ready.	Connected Tag Writer:
	•	Both modules appear in lower left of A2 display. Generally they will appear as the computer's name, or as "localhost".	Localhost Select Other Device
	•	If either is not visible there or under "Select Other device": disconnect and reconnect the hardware;	Localhost Select Other Device
	•	Restart the A2 service if necessary.	
Step 5.	Turn o	n the Harris Radio using the volume knob.	
Step 6.	Ensure The Ra	Bluetooth is "ON" (BT Icon is visible). dio should start with Bluetooth enabled, but if has been turned off:	P25C
	(A)	If Soft Button (front Display) is configured for Bluetooth on/off:	P25G
		Press "Bluetooth". The Bluetooth Icon should appear on the upper display bar.	SYSTEM UP BLUETOOTH SYSTEM DN
	(B)	Use the Settings menu:	SSSSI ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓
		 Press the button in the Center of the arrow pad to radio's settings menu sets. 	* BLUETOOTH CLOCK SETTINGS
		b. Use the Left or Right arrow until the " Utility " menu (Gear Icon) is highlighted on the little tabs at the top of the screen.	BACK
		c. Up or Down arrow until "Bluetooth" menu is highlighted	BLUETOOTH
		d. Press the button in the Center of the arrow pad to open it.	YES
		e. Up or Down arrow until [Bluetooth] "Enabled" is highlighted	DISCOVERABLE
		f. Press the menu button in the Center of the arrow pad to change "Enabled" to " YES ".	VOLUME CONTROL BACK MRMT













If you left the Bluetooth Settings screen (described in Step 3), Discovery is turned OFF, and you will see a message popup like this.

Accepting the paring request sent from the SCBA will not be successful.

a) Repeat step 3, 4, and 5.



PAIRING COMPLETE

OK

Step 6. When the Passkey Is presented on the radio: Press the softkey for "ACCEPT".

The Pairing Complete message will appear: Press the softkey for "OK".



- After a successful pairing, if the regulator is shut off, the G1 SCBA will not remain connected to the radio, and the radio is available for non-Bluetooth use.
- The G1 SCBA will automatically re-connect to the radio when the end user turns on the G1 regulator & breathes.

If you encouter difficulty pairing the radio:

• Clear the pair information stored on the radio, as described in the "Clearing SCBA Pairing Info from the Harris XL-185P | XL-200P Radio" section in the pages hereafter.

ACCEPT

PASSKEV

DENY

- For good measure clear the pairing information on the SCBA, as described in the "Clearing Radio Pair Info from the G1 SCBA" section in the pages hereafter.
- Repeat the "Pairing a G1 SCBA and Harris XL-185P | XL-200P Radio" procedure above.



Using Paired G1 & Radio

Using the G1 SCBA and Harris XL-185P | XL-200P Radio

Confirm that the G1 SCBA, and Radio, are paired together: Radio Tag has been applied (or applied previously and pair is saved)



All SCBA voice communication will now go from the SCBA through the portable radio.

Use Notes & Tips:

- Turn on the Harris radio prior to the G1 SCBA.
- If the regulator is shut off, the G1 SCBA will not remain connected to the radio, and the radio is available for non-Bluetooth use. The G1 SCBA will automatically re-connect to the Harris radio when breathing on the G1 regulator.
- Verify both the incoming and outgoing audio functionality after the Bluetooth wireless connection is established.



Best practice is to: Clear the pairing information **from both devices**—the radio & the G1 SCBA. This prevents the G1 SCBA from connecting to a previously-paired Bluetooth radio during the next start-up.

Clearing G1 SCBA Pair

Clearing Radio Pair Info from the G1 SCBA

There are 3 methods for removing stored Radio pairing information from the G1 SCBA.

- All three methods are effective on G1 SCBAs configured with "Bluetooth Pair Save" being "Disabled"
- The "Battery Removal Method" is a popular method, however, note that this method is NOT effective when the G1 SCBA is configured with the "Bluetooth Pair Save" setting set to "Enabled".

G1 Pairing Removal Method 1 – Battery Removal (Only effective when the G1 "Bluetooth Pair Save" setting is "Disabled")

Step 1. Remove G1 SCBA Battery

Bluetooth audio pair info is cleared from the G1 SCBA.

Next \rightarrow "Clearing SCBA Pairing Info from the HARRIS XL-185P| XL-200P Radio" section, hereafter.

G1 Pairing Removal Method 2 – Pair New Radio

Step 1. Pair a different Bluetooth Harris Radio with the G1 SCBA using the new radio's Bluetooth Audio Pairing Tag, as described in the "Pairing a G1 SCBA and Harris XL-185P | XL-200P Radio" section.

Bluetooth audio pair info on the G1 SCBA is changed to the pair info for the new radio.

Next \rightarrow "Clearing SCBA Pairing Info from the HARRIS XL-185P | XL-200P Radio" section, hereafter.

G1 Pairing Removal Method 3 – Use a "Reset Bluetooth Pairing" Tag

If not yet created, create a **"Reset Bluetooth Pairing" Tag** in the A2 software, under "G1 Tags" tile \rightarrow "Special G1 Tags" \rightarrow expand "Reset Tags" list \rightarrow Select "Reset Bluetooth Pairing"

Step 1. Press & hold either of the green Control Module buttons to access the RFID mode display.

Step 2. Place the "Reset Bluetooth Pairing" Tag over the G1 Power Module RFID Target.

Bluetooth audio pair info is cleared from the G1 SCBA.

Next \rightarrow "Clearing SCBA Pairing Info from the HARRIS XL-185P | XL-200P Radio" section, hereafter.





Bluetooth audio pair info is cleared from the Harris Radio.

OPTIONS

ADD NEW

BACK

If not done already: Clear the pairing info from the previously connected G1 SCBA's pair history using the process described in the "Clearing Radio Pair Info from the G1 SCBA" section, above.

BACK



Troubleshooting

Торіс	Problem/Issue	Diagnosis	Possible Solution	Expected Result	
Audio	Intermittent Audio	Facepiece may not be properly sealed	Adjust the facepiece until a proper seal is formed	Outgoing audio will function as expected	
			Power the portable radio on and off to reset the auto connect.	Radio will automatically connect to G1 and emit an audible indication for success.	
	Incoming and/or outgoing audio from G1 is not working	Bluetooth icon is visible on the Radio	If power cycling the radio does not result in a successful connect, clear the G1 & Radio pairing history and re-pair the G1 & Radio.	G1 & Radio will now connect and audio will function as expected	
	Poor audio quality from G1 to Radio	G1 has Firmware SW 2.003 or prior SW version	Update G1 to Firmware SW 3.0 via A2 Software	Improved G1 outgoing audio quality	
	Bluetooth pairing information lost from G1	Pairing information is cleared when the battery G1 battery is removed. (When G1 "Bluetooth Pair Save" is not set to enabled.)	G1 with SW 3.0 or higher is configurable to retain pairing information across battery removals. Review instructions for "G1 SCBA Configuration Tag" and Bluetooth Paring Save settings.	Bluetooth pairing information will no longer be cleared on every battery removal.	
			Turn Bluetooth on, on the Radio.	Bluetooth icon is visible on Radio and pairing is now successful.	
		Bluetooth icon is NOT visible on the radio	If turning on Bluetooth on the radio does not work: clear the G1 & Radio pairing history. Re-pair the G1 & Radio.		
Pairing	Radio will not pair with G1	Bluetooth Discoverable is set to "NO"	Go to Radio Bluetooth Settings and Set Discoverable to "YES" and STAY ON THIS SCREEN DURING PAIRING. Re-apply the Pairing Tag to the G1.	Paring will successfully complete.	
		G1 is not Bluetooth enabled, icon on control module is gray.	Enable Bluetooth on the G1 using a G1 Configuration tag that enables Bluetooth. Bluetooth icon on the G1 control module will be: <i>Red</i> = enabled/unpaired O enabled/paired, not connected <i>Green</i> = enabled/connected		
		Radio is a not a Harris XL-185P XL- 200P Bluetooth Radio	G1 is compatible with Harris XL-185P XL-200P Bluetooth Radios.	To use G1 Bluetooth audio, pair with a Harris XL-185P XL-200P	
	Radio is paired to an incorrect G1	Radio and/or G1 was previously paired to a different radio or G1	Clear the pairing information on both the G1 & Radio. Pair desired G1 & Radio	Desired G1 and Radio will be paired together	