



RADIO PROCEDURES

Radios are a primary item of safety equipment used by our club for patrols and other club activities. Unfortunately, they are very much prone to damage due to the severe conditions they are used in, sand, salt and water.

ALL RADIOS MUST BE IN A WATERPROOF BAG WHEN NEAR WATER OR IN THE IRB.

CLUB RADIOS

All club radios must be annually serviced/programmed to SLSNSW specifications by an endorsed agent. Manly LSC uses Hytera PD662 digital portable radios and has the following registered and located within the club

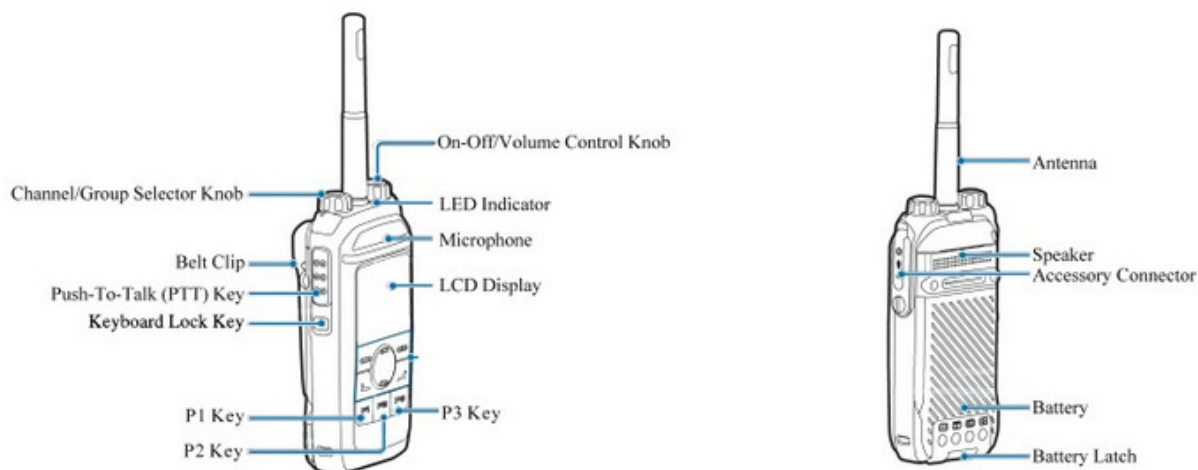
- 9 x Patrol Radios (located within the Patrol Radio Cabinet in the Lifesaving Shed)
- 4 x Training Radios (located within the Training Cabinet in the Lifesaving Shed)
- 4 x Nipper Radios (located within the Nipper Equipment Room)

All radios should be accounted for at the end of every patrol and any issues reported directly to the Radio Officer Alan Booth 0422954033 via SMS and the Patrol Log Book completed.

Training and Nipper Radios are **NOT** to be used for patrol. All patrol radios are to be placed back on charge and the cabinet locked at the end of each patrol.



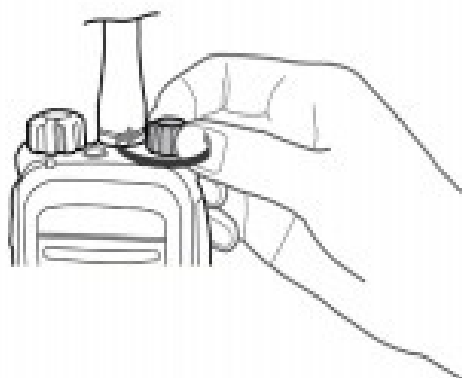
CONTROLS



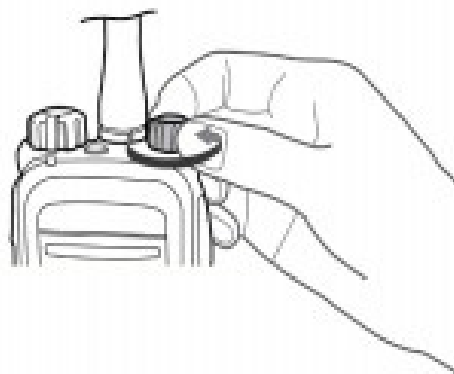
BASIC OPERATIONS

TURNING THE RADIO ON OR OFF

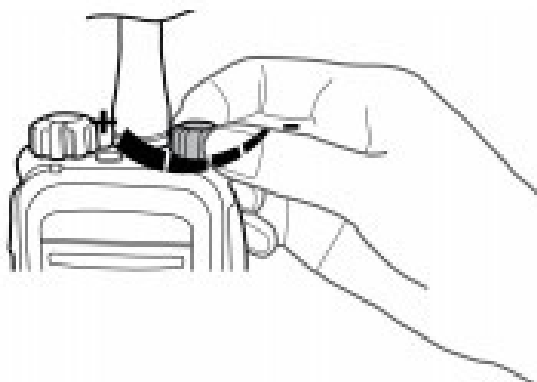
ON



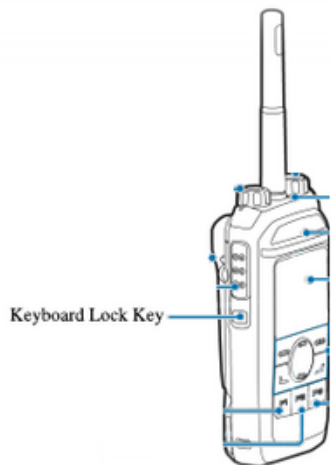
OFF



ADJUSTING THE VOLUME



LOCKING OR UNLOCKING THE KEYPAD



It is essential you lock the keypad once you have selected your channel. As simply tapping the P1, P2 or P3 buttons can change the channel without you knowing.

CHANNELS

CHANNEL	DESCRIPTION	TYPE	RADIO DISPLAY
1	HELICOPTER/EMERGENCY (Only used when instructed to)	DM	1 EMERGENCY LOCAL CHANNELS
2	PATROL	DM	2 PATROL LOCAL CHANNELS
3	SURFCOM (North Head Repeater)	RM	3 NORTH HEAD
4	CHANNEL 2/3 SCAN	DM	4 SCAN
	SURFCOM (Barrenjoey Repeater)	RM	BARRENJOEY LOCAL CHANNELS
	SURFCOM (Bilgola Repeater)	RM	BILGOLA LOCAL CHANNELS
	SURFCOM (Warringah Repeater)	RM	WARRINGAH LOCAL CHANNELS
	SURFCOM (Norah Head Repeater)	RM	NORAH HEAD LOCAL CHANNELS
24	MANLY LIFEGUARDS	DM	24 MANLY LG LOCAL CHANNELS
58	TRAINING CHANNEL	DM	58 TRAIN LOCAL CHANNELS
66	TRAINING CHANNEL	DM	66 TRAIN LOCAL CHANNELS

NOTE: Use of the Scan Channel **IS NOT RECOMMEND** due to possible long delays in the scan process. Patrol Captains are advised to use two radios, one on Channel 2 and the other on Channel 3. When using Scan while you can hear both Channel 2 & 3, you will only transmit on Channel 2.

DM – Direct Mode (Must be in line of sight of the receiving radio)

RM – Repeater Mode (Must be in line of sight of the repeater)

Note: Do not use the other repeater channels while on Manly Beach. They may be used by the IRB around North Head if line of sight is the Warringah repeater and not North Head.

MAINTENANCE

CHARGING

Before initial use, fully charge the battery to ensure optimum performance. To charge the battery, do as follows:

1. Insert the output connector of the power adapter into the port on the back of the charger.
2. Plug the power adapter into a power outlet that is off.
3. Ensure the radio is **POWERED OFF** during charging.
4. Place the radio with battery into the charger, and then switch the power outlet on.

To determine the charging status, check the light-emitting diode (LED) indicator on the charger according to the following table:

LED Indicator	Charging Status
Flashes red slowly	The battery fails to make proper contact with the charger.
Glow red	The battery is charging
Glow orange	The battery is charged to 90% or above
Glow green	The battery is fully charged
Flashes red rapidly	The battery fails to be charged

If the LED indicator flashes red slowly, take the battery out of the charger, and then place it into the charger for proper contact.

If the LED indicator flashes red rapidly, please contact your dealer to check whether the battery or power adapter is damaged.

Check the LED indicator



ATTACHING THE BATTERY




Note: To remove the battery, make sure that the radio is turned off, and then slide the battery latch upwards to unlock the battery.





ATTACHING THE ANTENNA



Caution: Do not hold the radio by the antenna, as it may reduce the radio performance and the life span of the radio.

CHECKING THE BATTERY POWER

To check the battery power, look at the battery power indicator in the top right corner on the LCD screen of the radio. The following table lists the battery power indications. The  icon indicates that the battery runs low. In this case, please recharge or replace the battery.

Icon	LED Indication/Tone
	The LED indicator glows green.
	The LED indicator glows orange.
	The LED indicator glows red.
	The LED indicator glows red and an alert tone <u>sounds</u> .

CLEANING

Maintenance should be carried out on all radios after being used, by all users (includes patrol members). If a radio has been SUBMERGED first rinse in fresh water and then follow the basic maintenance plan set out below for SUBMERSION OR RAIN WATER, also it must be reported in the Patrol Log Book as is the case with any problems with the radios.

AFTER EVERY PATROL

- Using brush remove any sand from radio
- Wipe radio over with damp cloth
- Return radio to charger



Brushing all Sand off charger



Wipe clean with damp cloth



Return to

SUBMERSION OR RAIN WATER

- Turn Radio Off
- Remove Battery
- Remove Antenna
- Check for Damage to the Radio
- Rinse in Freshwater and Pat Dry

IF WATER HAS PENETRATED THE RADIO

1. Remove the Antenna and Battery
2. Submerge the Radio in Fresh Water (Distilled is Best). For a minute or two
3. Remove from Water then Pat Dry and then leave out to Dry, not in direct sun light
4. Advise the Patrol Captain and your Radio Officer of your actions
5. Record the Damage in the Patrol Log Book
6. DAMAGED RADIOS NEED TO BE TAKEN ASAP TO THE REPAIRER

TROUBLESHOOTING

Phenomena	Analysis	Solution
You cannot turn on the radio.	The battery may be installed improperly.	Remove and reattach the battery.
	The battery power may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirty or damaged battery contacts.	Clean the battery contacts or replace the battery.
During receiving, the voice is weak or intermittent.	The battery voltage may be low.	Recharge or replace the battery.
	The volume level may be low.	Increase the volume.
	The antenna may be loose or may be installed incorrectly.	Turn off the radio, and then remove and reattach the antenna.
	The speaker may be blocked.	Clean the surface of the speaker.
You cannot communicate with other group members.	The frequency or signaling type may be inconsistent with that of other members.	Verify that your TX/RX frequency and signaling type are correct.
	The channel type (digital or analog) may be set incorrectly.	Verify that you are on the correct digital or analog channel.
	You may be too far away from other members.	Move towards other members.
You hear unknown voices or noise.	You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.
	The radio in analog mode may be set with no signaling.	Request your dealer to set signaling for the current channel to avoid interference.
You are unable to hear anyone because of too much noise and hiss.	You may be too far away from other members.	Move towards other members.
	You may be in an unfavourable position. For example, your communication may be blocked by high buildings or blocked in an underground area.	Move to an open and flat area, restart the radio, and try again.

If the above solutions cannot fix your problems, or you may have some other queries, please contact the Radio Officer Alan Booth