

DRAPER®

INSTRUCTIONS FOR Two Way Radio Kit

Stock No.53516

Part No.TWR/2/B

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



DRAPER®

GENERAL INFORMATION

Read all these instructions before operating this product and save these instructions.

This manual has been compiled by Draper Tools and is an integrated part of the product with which it is enclosed and should be kept with it for future references.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.



CONTENTS

Contents 1

Specification/Guarantee 2

Getting to Know Your Two Way Radio Kit 3

Explanation of Symbols 4

Special Features 5

Assembly 6

Operation and Use..... 7 - 9

VOX Selection.....9

Disposal 10

Declaration enclosed



SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Stock No. 53516

Part No. TWR/2/B

Charger:

Rated input voltage 230V~50Hz

Output voltage 7V ---

Output current 300mA

Charge time 3.5HRS

Batteries:

Type NiMH

Cells per radio 4

Rated voltage 1.2V

Rating 600mAh

Channels 8

Frequency range 446.00625 - 446.093 5MHz

Broadcast range (direct line of sight) 1.8Miles/3.0km



GUARANTEE

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.

Telephone: (023) 8026 6355.

A proof of purchase must be provided with the tool.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

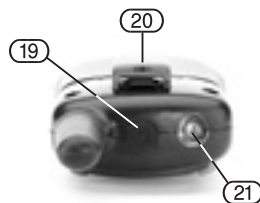
Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the 12 months period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.



Voice activated transmission








- | | |
|--|--|
| (1) 1.5V AAA type NiHD rechargeable batteries x 8. | (12) On/Off switch button. |
| (2) Handsets x 2. | (13) Menu button. |
| (3) 230V~ adaptor chargers x 2. | (14) Microphone. |
| (4) Microphone/earphone x 2. | (15) Up arrow. |
| (5) Antenna. | (16) Monitor button. |
| (6) LCD. | (17) Speaker. |
| (7) LED light button. | (18) Battery compartment (on reverse). |
| (8) Scan button. | (19) Microphone/earphone & charger socket. |
| (9) Down arrow. | (20) Belt clip. |
| (10) Call button. | (21) LED light. |
| (11) Talk button. | |

- **UNPACKING:** After removing the packing material, make sure the product is in perfect condition and that there are no visible damaged parts. If in doubt, do not use the product and contact the dealer from whom it was purchased.

The packaging materials (plastic bags, polystyrene, etc.), must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.

EXPLANATION OF SYMBOLS/PICTOGRAMS

	Receiving icon, displayed when receiving signal.
	Transmitting icon, displayed when transmitting signal.
	Displays current speaker volume.
SCAN	Displayed during the channel scanning mode.
	Keypad is locked.
	Displays the current battery level.
8	Channel number.
VOX	Voice activated transmission



SPECIAL FEATURES

AUTOMATIC SQUELCH:

Both handsets are equipped with automatic squelch circuitry filtering out weak transmission and unwanted noise, which are usually caused by terrain conditions.

MONITOR:

This feature turns off the automatic squelch feature either momentarily or continuously. It helps receive signals to its maximum range, but may pick up static signals too.

Continuous Monitor Feature:

- Press and hold the **(MON)** button to activate channel monitoring.
- To restore automatic squelch, release the **(MON)** button again.

NOTE - You cannot transmit when the **(MONITOR)** feature is activated.

Low Battery Indicator:

- When the batteries need to be charged, the battery meter icon will flash. To ensure uninterrupted communication, recharge or replace the batteries as soon as possible.

AUTOMATIC BATTERY SAVE:

Each handset unit has special circuitry designed to extend the life of your battery. When the radio is not used for 4 seconds, it will switch itself into a low power saving mode. Battery save does not affect the radio's ability to receive transmissions. When a signal is detected, it automatically returns to full power.

EXTERNAL MICROPHONE/EARPHONE & CHARGER SOCKETS:

Each handset can be used with the external microphone and earphone.

The microphone/earphone and charging socket is located under the protective rubber cover on top of each handset (next to the LED light). To attach the external microphone/earphone lead, lift the rubber flap to expose the socket. Insert the appropriate plug into the socket.

WARNING: Never attempt to operate with, or charge, standard AAA type batteries. To charge the handset's 4x AAA type Ni-MH rechargeable batteries, insert the connector into the charging socket located on the top of the handset (next to the LED light).

NOTE - Charge time approximately 3.5HRS.

BUILT-IN LED LIGHT:

As an added feature, each handset has a built-in light that can be used in sending light signals or for general lighting requirements.



ASSEMBLY

- BATTERY INSTALLATION (FIGS 1 TO 3):

- To use the handset, you must install the 4x AAA type rechargeable batteries supplied.
- Remove the belt clip by sliding the tab (B) and belt clip (A) downward.
- Press and slide the battery compartment cover (C) down to release the cover. Remove cover and insert the 4x AAA type rechargeable batteries supplied, taking note of the correct polarity as indicated in the back of the battery compartment.
- Replace the battery compartment cover. Resecure the belt clip back into place.

FIG.1

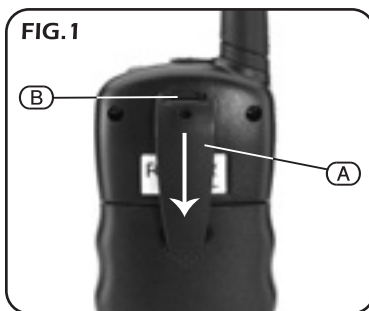


FIG.2



FIG.3



- WARNING:

- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or other chemical technology rechargeable batteries.
- Charge the batteries for at least 10 hours for initial use.
- Always use alkaline batteries for replacements.
- Do not put batteries into fire or expose to high heat as they may explode.
- Never attempt to operate or charge standard AAA type batteries.

- TURNING THE UNIT ON/OFF (FIG.4.):

- To turn the unit on, press and hold the on/off button (D). The unit will beep and the LCD screen will display the current channel.
- To turn the unit off, press and hold the on/off button (D). The unit will beep and the LCD screen will turn blank.

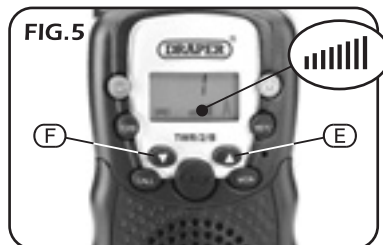
FIG.4



- ADJUSTING THE SPEAKER VOLUME (FIG.5.):

- Press the up button (E) to increase the speaker volume.
- Press the down button (F) to decrease the speaker volume.
- The speaker volume is indicated by the number of bars displayed in the lower left corner of the LCD screen.

FIG.5

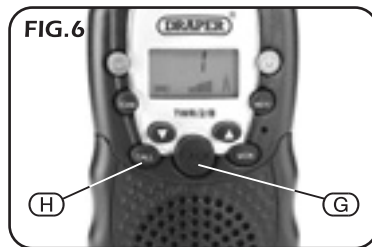


- RECEIVING COMMUNICATIONS (FIG.6.):

- When the handset unit is on and not being used for speech or paging, it is always in the receiving mode. Pressing the talk button (G) or call button (H) automatically overrides and turns the receiving mode off.

NOTE - In order for other people to receive your transmission, they must also be on the same channel you are currently using. Refer to the "Changing Channels" section.

FIG.6

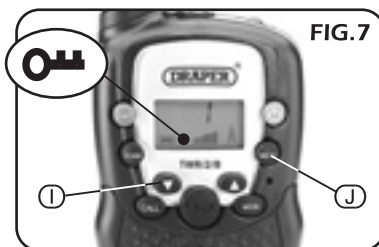


- CHANNEL LOCK (FIG.7.):

This feature locks the channel so that the channel cannot be changed accidentally.

- To lock the channel, press the menu buttons (J) for 2 seconds until a beep is heard. The lock symbol will appear on the LCD screen.
- To unlock the channel, press the down and menu buttons (J) for 3 seconds until a beep is heard. The lock symbol will disappear from the screen.

FIG.7

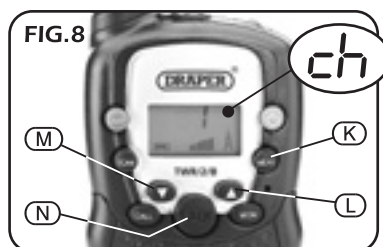


- CHANGING CHANNELS (FIG.8.):

Each unit has 8 available channels. To change channels;

- Press the menu button (K) until the current channel number and "ch" icon flashes on the screen.
- While the channel number is flashing;
- Press the up button (L) to move to a higher channel or the down button (M) to move to a lower channel. The channel sequence changes from 1 to 8, or from 8 to 1.
- Press the talk button (N) to select desired channel and return to normal mode, or press the menu button (K) to confirm the channel and go to the call ring melody programming option.

FIG.8



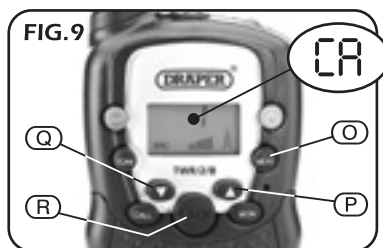


OPERATION AND USE

- SETTING THE CALL RING MELODY (FIG.9.):

Each unit has 5 call ring melodies to select.

- Press the menu button (O) three times until the current ring melody number (01, 02, 03, 04, 05, 06, 07, 08, 09, 10) and "CR" icon flashes on the LCD screen.
- Press the up or down button (P) or (Q) to select a melody.
- Press the talk button (R) to select the desired call ring melody & return to normal mode, or press the menu button (O) to confirm the call ring melody & return to normal mode.



- RESPOND PROMPT TONE (FIG.10.):

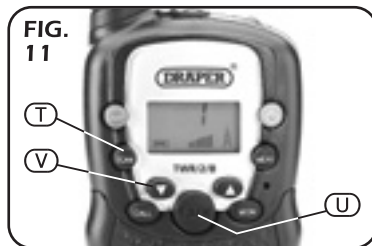
- When transmission is finished and the talk button (S) is released, the corresponding radio will hear a tone and will be ready for transmission.



- CHANNEL SCAN (FIG.11.):

Each handset can scan across channels allowing other radio search without changing channels.

- Press the scan button (T) to activate channel scan. The channel number will run rapidly on the display. When a signal is detected, channel scan pauses keeping the active signal broadcasted.
- Press the talk button (U) to communicate (CHANNEL SCAN is deactivated). When the active signal is detected and another channel is desired, press the down button (V) to search for another active channel.
- To stop the scanning operation, press the scan button (T) again.

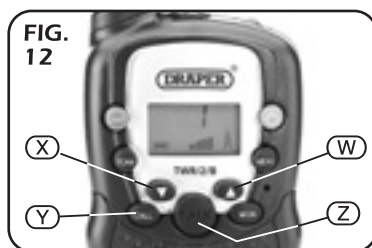


- CALLING (PAGING) ANOTHER RADIO (FIG.12.):

The volume of the incoming call (page) tone is set by pressing the up or down volume buttons (W) or (X).

To send a page, or call;

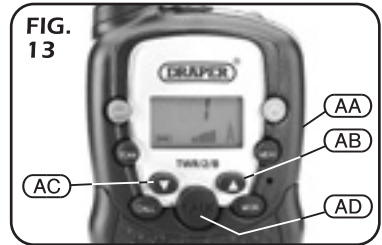
- Make sure both units are turned on.
- The volume is set to an audible level.
- Set both units to the same channel.
- Press & release the call button (Y) on the front of the handset. The other unit will make a 2 second call (page) tone. They can then respond to your call by either;
- Pressing the talk button (Z) & speaking into the handset, or
- Pressing the call button (Y), which activates a 2 second call (page) tone on your handset.



- SETTING THE BUTTON TONE (FIG.13.):

- Press the menu button (AA) four times.
- Press the up or down button (AB) or (AC) to select on or off.
- Press the talk button (AD) to confirm the setting and return to normal mode, or press the menu button (AA) to go to the PTT tone option.

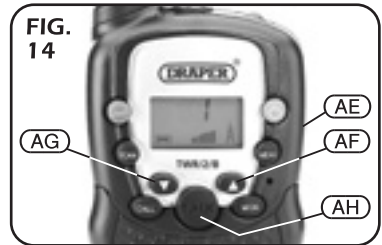
FIG. 13



- SETTING THE PTT TONE (FIG.14.):

- Press the menu button (AE) five times.
- Press the up or down button (AF) or (AG) to select on or off.
- Press the talk button (AH) to confirm the setting and return to normal mode.

FIG. 14



The Radio is capable of voice activated (VOX) transmission. In VOX mode, the radio will transmit a signal when it is activated by your voice or other sound around you. VOX operation is not recommended if you plan to use your radio in a noisy or windy environment.

NOTE: VOX mode will be overridden when you press the **TALK**-button.

Press the **MENU**-button two times, the current VOX setting flashes on the display and the VOX icon is displayed.

Press **▲**-button to set the VOX sensitivity level between 1 and 3 (level 3 is the most sensitive level).

Press **▼**-button until "**OF**" appears on the display, to turn VOX OFF.

Press the **TALK**-button to confirm and return to stand-by mode.



- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not abandon in the environment.
- Do not dispose of WEEE* as unsorted municipal waste.



* Waste Electrical & Electronic Equipment.



CONTACTS

- **DRAPER TOOLS LIMITED,**
Hursley Road, Chandler's Ford,
Eastleigh, Hampshire. SO53 1YF. U.K.
- **Helpline:** (023) 8049 4344
- **Sales Desk:** (023) 8049 4333
- **Internet:** www.drapertools.com
- **Email:** sales@drapertools.com
- **Sales Fax:** (023) 8049 4209
- **General Enquiries:** (023) 8026 6355
- **Service/Warranty Repair Agent**
For aftersales servicing or warranty repairs, please
contact the Draper Tools Helpline for details of an
agent in your local area.

YOUR DRAPER STOCKIST

RWLJ 240414

©Published by Draper Tools Limited.

No part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise without prior permission in writing from Draper Tools Ltd.