THANK YOU

We are grateful you decided to purchase this

SPENDER VX-245M FM transceiver. This series of handhelds

was developed to satisfy the requirement for a compact and simple

to operate yet contains multiple new features.

SPENDER VX-245M believes that the compact size, coupled

with reasonable cost, will meet your satisfaction.

Contents

Product Investigation

Thank you for using our SPENDER VX-245M. You should investigate your product carefully before using it. If you are still have any problem about product. You should contact with the distributor immediately. Confirm your product again in order to have a certainty and accuracy.

Product Instrument

Tool	Amount
SPENDER VX-245M	1
Adapter	1
Charger (with Adaptor)	1
Battery Pack	1
Belt Clip	1
Tie	1
Earphone	1
User's Manual	1

Charging the Battery

Using the Battery Charger

SPENDER VX-245M needs power from 3 pieces of battery AA size(electromotive force 3.6 Volt/1300 Mill ampere).

1. Battery Charger together with
   SPENDER VX-245M. Bring SPENDER
   VX-245M and battery attached SPENDER
   VX-245M lay down on the charger base
   in vertical   to charge.

PIC

2. Battery Pack Charger in piece.
   Bring 3 pieces of battery pack or
   charger. Lay it down on the charger
   base to charge.

Remaining Battery Capacity

High battery power

Medium battery power

Low battery power

Recharge or replace the batteries.

Insert Battery

Installing/Removing Battery Pack

   Battery pack not electrifrified when it's produce. Please electrify it before using it (Please read the instructions of the fast charger).

Slip the battery cover backward at

the back of the interphone, and then

 get it from the body of the interphone.
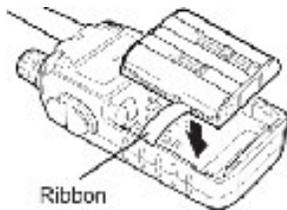
According to the picture, install the

battery, when you want to take out

 the battery, draw the silk band which

Ribbon

The lock tock tongue of the battery

cover aims at the lock groove, and

 then Make it tight at the right position.

Installing/Removing the battery pack

   You can use 3 sections AA type batteries to replace the usage of

battery pack. Please use the high quality alkaline battery, and you'll

acquire longer usage usage time.

Slip the battery cover backward at the back of the interphone, and then get it from the body of the interphone.
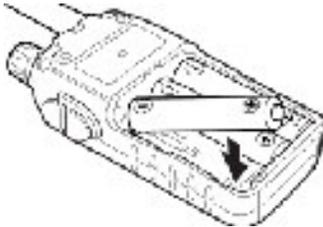
Install or get out 3 section AA style battery Make sure that they aim at the mark of polarity on the interphone.

The lock tongue of the battery cover aims at the lock cannel of the interphone, and then makes it tight at right position

Installing/Removing belt clip
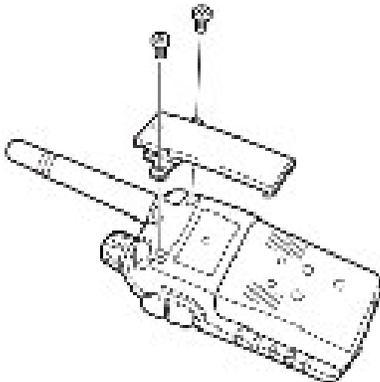
According to the necessary, makescrews,which are attached To install belt pinch fix eat the pinch fixed at back of interphone.

4

Getting Acquainted
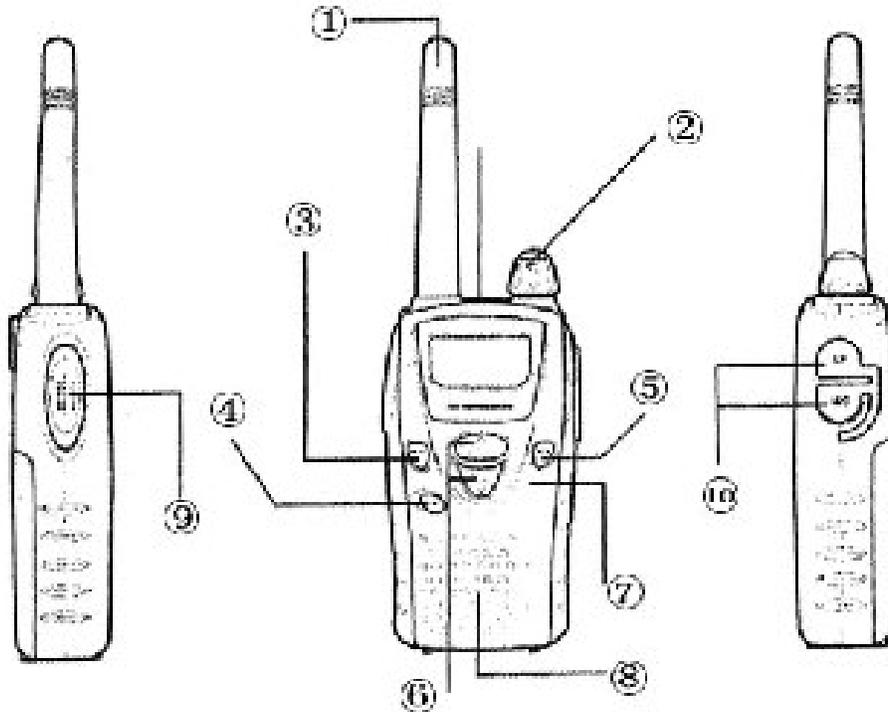
Key Controls The Working of VX-245M

1. Antenna

2. On/Off key and true the volume level. (Power Switch/Volume)

   Turn this key in turn the volume level is "Click" sound to switch on.

   Turn this key in a counter clockwise direction to switch off while it is

   working. We can turn this key to increase or decrease the volume.

3. Menu [Menu Key]

   Pressing the key can carry out every kind of function. Press the key

   for another 3 seconds it will close the keyboard just for another

   3 seconds it will open the keyboard

4. CALL [Call Key]

   Press call key to send signal.

5

5. MON Key [Monitoring Key]

   Press Mon key you receive the signal directly when using Tone Scale

   (CTCSS/DCS)

6. UP [▲] DOWN [▼]

   Use for selecting signal or turn menu style.

7. Microphone

   For speaking by holding VX-245M away form mouth for few inches.

   Then speak messages slowly and accurately.

8. Speaker/Mic Jack

   For speaking by holding VX-245M away from mouth for few inches

   inches then speak slowly accurately.

9. PTT Key [Push-to-talk]

   Press this key for a while to send signal toward receiver and release

   it to wait for the answering signal. You need to speak message

   slowly and accurately when the conversation finished. You have to

   release to listen the answering message. When pressing PTT key,

   do not speak immediately because you may miss the message at

   the beginning.

10. SP/MIC Plug

LCD Symbol & Meaning
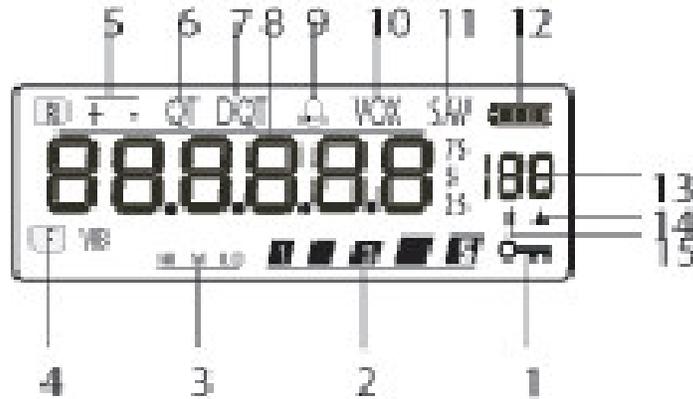
1. This symbol appears when we set the keys lock of the   working system.

2. This symbol appears when VX-245M received the signal. LCD shows the symbol of receiving signal (S-Meter) and press PTT key to connect. LCD shows sending symbol.

3. This symbol appears when selecting the capacity of sending in 3 levels.

4. This symbol appears when pressing the Menu key.

5. This symbol appears when getting into Duplex working condition.

6. This symbol appears when using Analog Tone   command.

7. This symbol appears when setting the prompt level for receiving.

8. Number "88.8.8.8.8" indicates the frequency and tone   scale frequency and major signal channels.

9. This symbol appears when there is a Call sound.

10. This symbol appears when sending broadcast signal without press PTT key.

11. This symbol appears when using Save command.

12. Low battery indicator. You will know the battery level.

13. Number "88" indicates major signal and minor signal   (CTTSS).

14. This symbol appears when pressing MON key to receive signal directly.

15. This symbol appears when using scan Memory scanner command.

Control Working System Command

ON/OFF VX-245M

Turn Power to on/off VX-245M and turn to increase or decrease volume level.

On : Turn key to open VX-245M / Volume in a clockwise direction.

Off : Turn key to open VX-245M / Volume in a counter clockwise direction.

Select Channel

Press [▲] or [▼] key and turn to select the frequency as need (245.0000-245.9875 MHz).

Channel Scan

Frequency Scan is a frequency scan of major signal channel that
are 245.0000-245.9875 MHz. Steps of Scan

1. Press [MENU] key. The screen will show [SCAN ? 01].

2. Press [PTT] key. VX-245M will automatically scan by itself.

3. Press [PTT] key. Stop scanning.

Voice Control

1. Press [MENU]+[▲ or ▼] key to select command [VOX ? 02].

2. Press [PTT] key. VX-245M will select speed level to instruct by voice. OFF 1-9 levels

       [VOX OFF] → Close the instruction by voice.

       [VOX 1] → Lowest speed.

       [VOX 5] → Middle speed.

       [VOX 9] → Highest speed.

3. Press [PTT] key to confirm.

4. Press [MON] key 1 time to do next step press 2 times to quit the menu.

Setting Power Output

  1. Press [MENU]+[▲or▼] key to select [POW ? 03] command.

  2. Press [PTT]+[▲or▼] key to select power output level 3 levels

    that are Low Mid Hi.

  3. Press [PTT] key to confirm.

  4. Press [MON] key 1 time to do next step press 2 times to quit the menu.

Squelch Control

  1. Press [MENU]+[▲or▼] key to select [SQL ? 04] command.

  2. Press [PTT]+[▲or▼] key to select speed level of receiving signal.

    There are 0-9 level   0 The best level of receiving signal.

                             5 The middle level of receiving signal.

                             9 The lowest level of receiving signal.

  3. Press [PTT] key to confirm.

  4. Press [MON] key 1 time to do next step press 2 times to quit the menu.

Setting Background Light

  1. Press [MENU]+[▲or▼] key to select [LED ? 05] command.

  2. Press [PTT]+[▲or▼] key to select background light level.

    There are 3 levels   AUTO   On/Off automatically.

                         ON   Open.

                         OFF   Close.

  3. Press [PTT] key to confirm.

  4. Press [MON] key 1 time to do next step press 2 times to quit the menu

Setting ON/OFF Beep Sound

  1. Press [MENU]+[▲or▼] key to select [BEEP ? 06] command.

  2. Press [PTT]+[▲or▼] key to select [ON] or [OFF].

  3. Press [PTT] key to confirm.

  4. Press [MON] key 1 time to do next step press 2 times to quit the menu.

Setting Lock of Working System

  1. Press [MENU]+[▲or▼] key to select [KEYBO ? 07] command.

  2. Press [PTT]+[▲or▼] key to select [AUTO] or [OFF].

  3. Press [PTT] key to confirm.

  4. Press [MON] key 1 time to do next step press 2 times to quit the menu.

Setting Time Out Time

  1. Press [MENU]+[▲or▼] key to select [TOT ? 08] command.

  2. Press [PTT]+[▲or▼] key to prevent the stuck key. There are 9 levels.

    OT? OFF,30,60,90,120,150,180,210,240,270 seconds.

  3. Press [PTT] key to confirm.

  4. Press [MON] key 1 time to do next step press 2 times to quit the menu.

To change the scan resume method.

  1. Press [MENU] key

  2. Press[▲or▼]key to select Menu [09? SCN].

  3. Press [PTT] switch to enter scanning resume method setting

    Display appears currently scanning mode

  4. Press [▲or▼] key to change scanning resume method.

  5. Press [PTT] switch to store new setting, otherwise, press [PTT]

    key to cannel.

  6. Press [MON] key to return to MENU mode.

  7. Press [▲or▼] key to set other Menu continuously.

  8. Press [MON] key to exit MENU mode.

Duplex Control

  1. Press [MENU]+[▲or▼] key to select [dIFFR ? 10] command.

  2. Press [PTT]+[▲or▼] key to select Duplex [00.0000] – [99.9875].

  3. Press [PTT] key to confirm.

  4. Press [MENU]+[▲or▼] key to select [S-d ? 12] command.

    **Running Duplex   Press [CAL] to confirm + [PTT].

    **Working Duplex Press [CAL] to confirm + [PTT].

Setting ON/OFF Tone Scale As a Receiving

(CTCSS + DCS Setup)

  1. Press [MENU]+[▲or▼] key to select [R+CdC ? 11] command.

  2. Press [PTT]+[▲or▼] key to select tone scale frequency (Analog).

   OFF → Close, [67.0 1] to [254.1 50] → open tone scale

  3. Press [CAL] key to confirm.

  4. Press [MENU]+[▲or▼] key to select [T-CdC ? 11] command.

  5. Press [MENU]+[PTT] key to select tone scale frequency (Digital)

   OFF → Close, [67.0 1] to [254.1 50] → open tone scale

  6. Press [CALL] key to confirm

 ** Subject 1 to 3 function control with CTCSS 50 channel (Transmitters)

   Subject 1 to 3 function control with DCS 105 channel (Transmitters)

Setting ON/OFF Tone Scale As a Transmitters

(CTCSS + DCS Setup)

  1. Press [MENU]+[▲or▼] key to select [T+CdC ? 12] command.

  2. Press [PTT]+[▲or▼] key to select tone scale frequency (Analog).

   OFF → Close, [67.0 1] to [254.1 50] → open tone scale

  3. Press [CAL] key to confirm.

  4. Press [MENU]+[▲or▼] key to select [T-CdC ? 12] command.

  5. Press [MENU]+[PTT] key to select tone scale frequency (Digital)

   OFF → Close, [67.0 1] to [254.1 50] → open tone scale

6. Press [CALL] key to confirm

** Subject 1 to 3 function control with CTCSS 50 channel (Receiver)

Subject 1 to 3 function control with DCS 105 channel (Receiver)

ON/OFF Duplex Control

1. Press [MENU]+[▲/▼] key to select [S-d ? 13] command.

2. Press [PTT] 1st time to open Duplex +

3. Press [MENU]+[▲/▼] key to select [S-d ? 13] command.

4. Press [PTT] 2nd time to open Duplex -

5. Press [MENU]+[▲/▼] key to select [S-d ? 13] command.

6. Press [PTT] 3rd time to close Duplex (There is not +,- sign)

**Every step needs to do continuously.

Setting Memory 118 Channel

1. Press [PTT]+[MENU] key promptly. Power ON VX-245M for 3 seconds.The   screen will show [SELF]. There are 8 steps of memory.

Step 1. Press [MENU] key. The screen will show [CH-01 1].

Press [▲/▼] key to select memory channel.

Step 2. Setting receiving frequency and press [PTT] key. The screen

will show [------ 2].

Press [MON] or [▲/▼] key to select the frequency as needed.

***Press [CAL] key to select Step 6.25 KHz or 12.5 KHz.

Step 3. Setting ON/OFF Tone Scale As a Receiving

(CTCSS + DCS Setup)

Press [PTT] key. The screen will show [OFF   3].

Press [MENU] key 1st time+[▲/▼] key to select digital tone

frequency (DCS).

Press [MENU] key 2nd time+[▲/▼] key to select analog

tone frequency (CTCSS).

Press [CAL] key to cancel frequency control [OFF   3].

Step 4. Setting Sending Frequency. Press [PTT] key. The screen

will show [------ 4].

Press [MON] or [p or q] key to select the frequency as needed.

***Press [CAL] key to select Step 6.25 KHz or 12.5 KHz.

Step 5. Setting ON/OFF Tone Scale As a Sending (CTCSS + DCS Setup)

Press [PTT] key. The screen will show [OFF   5].

Press [MENU] key 1st time+[▲/▼] key to select digital tone

frequency (DCS).

Press [MENU] key 2nd time+[▲/▼] key to select analog

tone frequency (CTCSS).

Press [CAL] key to cancel frequency control [OFF   5].

Step 6. Setting prohibit pressing the sending key cross the receiving

signal (BLC)

Press [PTT] key. The screen will show [OFF   6].

Press [▲/▼] key to change 1 or 2 command.

Notes : 1. Use while there is a signal in normal channel.

2. Use while there is a signal in small channel (CTCSS/DCS).

Step 7. Setting Scan Command. Scan ADD/Del

(Add-scan, Del-scan skip)

Press [PTT] key. The screen will show [dEL   7].

Press [▲/▼] key to select (Add-scan, Del-scan skip)

***Notes :** Select Add Use scanning to search signal channel.

DEL Use scanning command to ignore the unwanted channel.

Step 8. Setting Power Output [Hi/Low]

Press [PTT] key. The screen will show [L   8].

Press [▲/▼] key to select [Hi/Low].

Press [PTT] key to start new memory channel.

Recalling Memory Channel

1. Press [MENU] key for a while then power on VX-245M. The screen

   will show memory channel [CH-01].

2. If you need to change the frequency number. Press [MENU] for

   a while and then power on VX-245M.

CTCSS TONE FREQUENCY CHART

CH.	FRE.(Hz)	CH.	FRE.(Hz)	CH.	FRE.(Hz)
1	67.0	18	118.8	35	183.5
2	69.3	19	123.0	36	186.2
3	71.9	20	127.3	37	189.9
4	74.4	21	131.8	38	192.8
5	77.0	22	136.5	39	196.6
6	79.7	23	141.3	40	199.6
7	82.5	24	146.2	41	203.5
8	85.4	25	151.4	42	206.5
9	88.5	26	156.7	43	210.7
10	91.5	27	159.8	44	218.1
11	94.8	28	162.2	45	225.7
12	97.4	29	165.5	46	229.1
13	100.0	30	167.9	47	233.6
14	103.5	31	171.3	48	241.8
15	107.2	32	173.8	49	250.3
16	110.9	33	177.3	50	254.1
17	114.8	34	179.9		

CODES DIGITAL (DCS)

ITEM	CODE	ITEM	CODE	ITEM	CODE	ITEM	CODE
1	023	26	143	51	271	76	455
2	025	27	145	52	274	77	462
3	026	28	152	53	306	78	464
4	031	29	155	54	311	79	465
5	032	30	156	55	315	80	466
6	036	31	162	56	325	81	503
7	043	32	165	57	331	82	506
8	047	33	172	58	332	83	516
9	050	34	174	59	343	84	523
10	051	35	205	60	346	85	526
11	053	36	212	61	351	86	532
12	054	37	223	62	356	87	546
13	065	38	225	63	364	88	565
14	071	39	226	64	365	89	606
15	072	40	243	65	371	90	612
16	073	41	244	66	411	91	624
17	074	42	245	67	412	92	627
18	114	43	246	68	413	93	631
19	115	44	251	69	423	94	632
20	116	45	252	70	431	95	654
21	122	46	255	71	432	96	662
22	125	47	261	72	445	97	664
23	131	48	263	73	446	98	703
24	132	49	265	74	452	99	712
25	134	50	266	75	454		