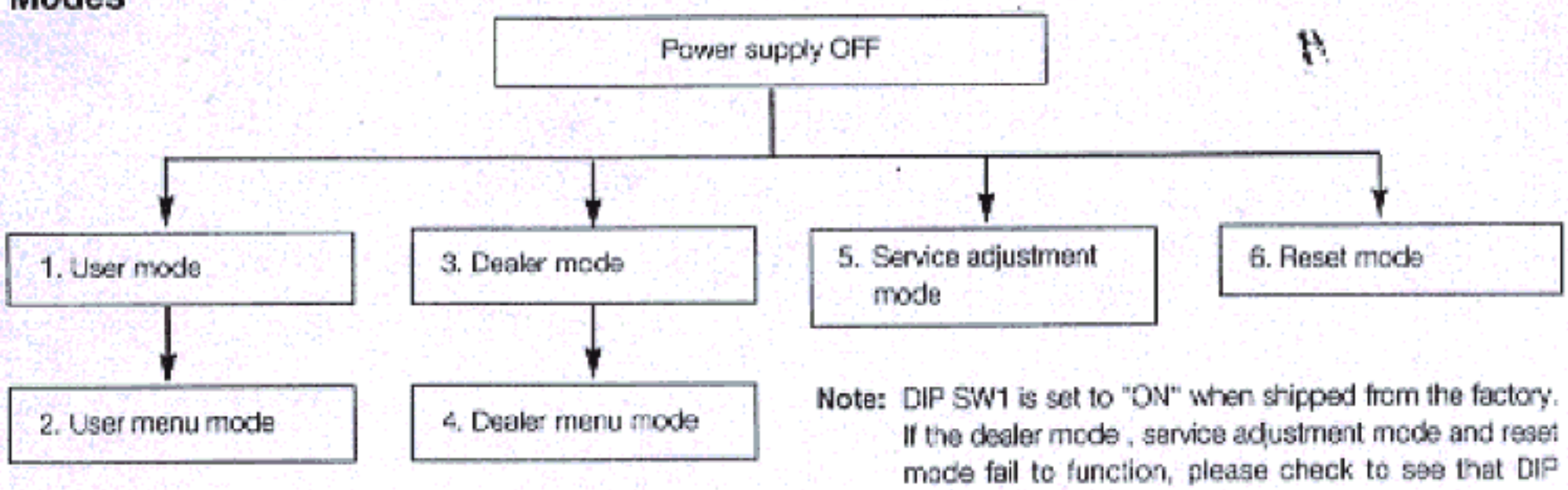
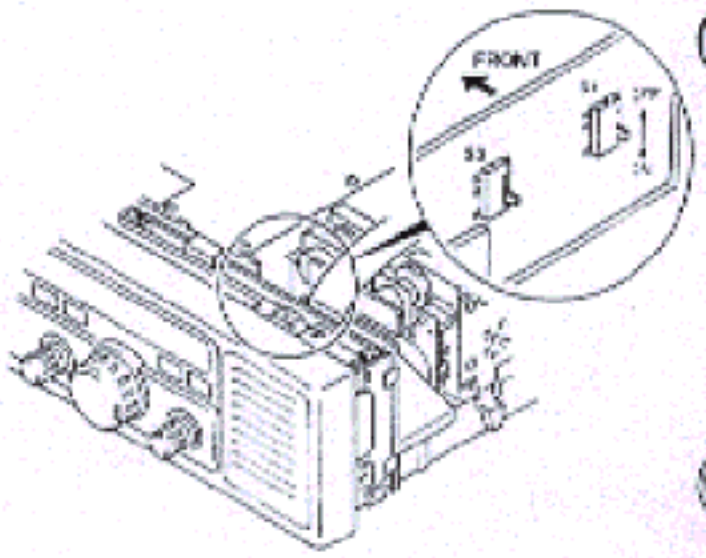
REALIGNMENT

Modes



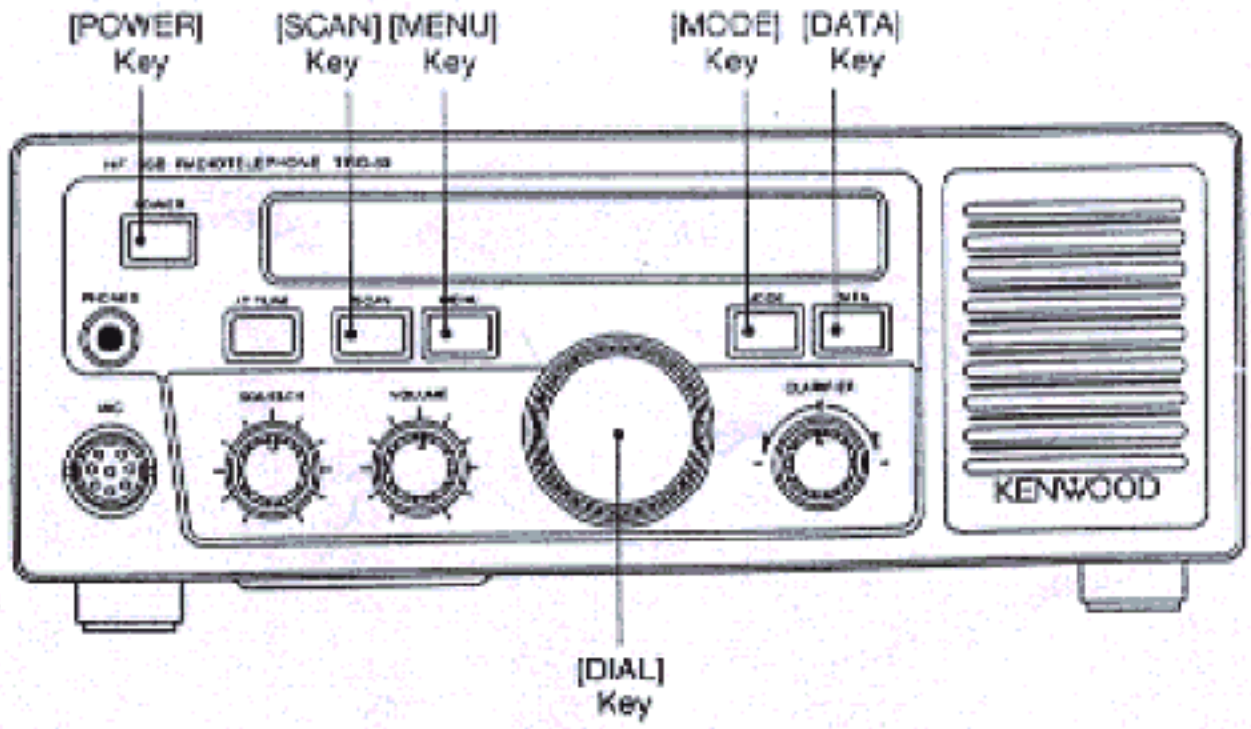
Note: DIP SW1 is set to "ON" when shipped from the factory. If the dealer mode , service adjustment mode and reset mode fail to function, please check to see that DIP SW1 is set to "ON."

No.	Mode	Function
1	User mode	For normal use
2	User menu mode	Selects the user menu
3	Dealer mode	Writes the various data settings to the memory channels
4	Dealer menu mode	Selects the dealer menu
5	Service adjustment mode	Selects the adjustment items for the service adjustment mode menu
6	Reset mode	Clears all memory channels and the menu contents



How to enable the mode

No.	Mode	Procedure
1	User mode	Power ON
2	User menu mode	Press User mode + [MENU]
3	Dealer mode	Press [MENU] + [MODE] + Power ON
4	Dealer menu mode	In Dealer mode , press [MENU]
5	Service adjustment mode	Press [SCAN] + [DATA] + Power ON
6	Reset mode	Press [MENU] + [MODE] + [DATA] + Power ON



REALIGNMENT

Reset

All reset

Restores the factory default settings .

Set DIP SW1 to ON, then press [POWER] while depressing [MENU], [MODE] and [DATA].

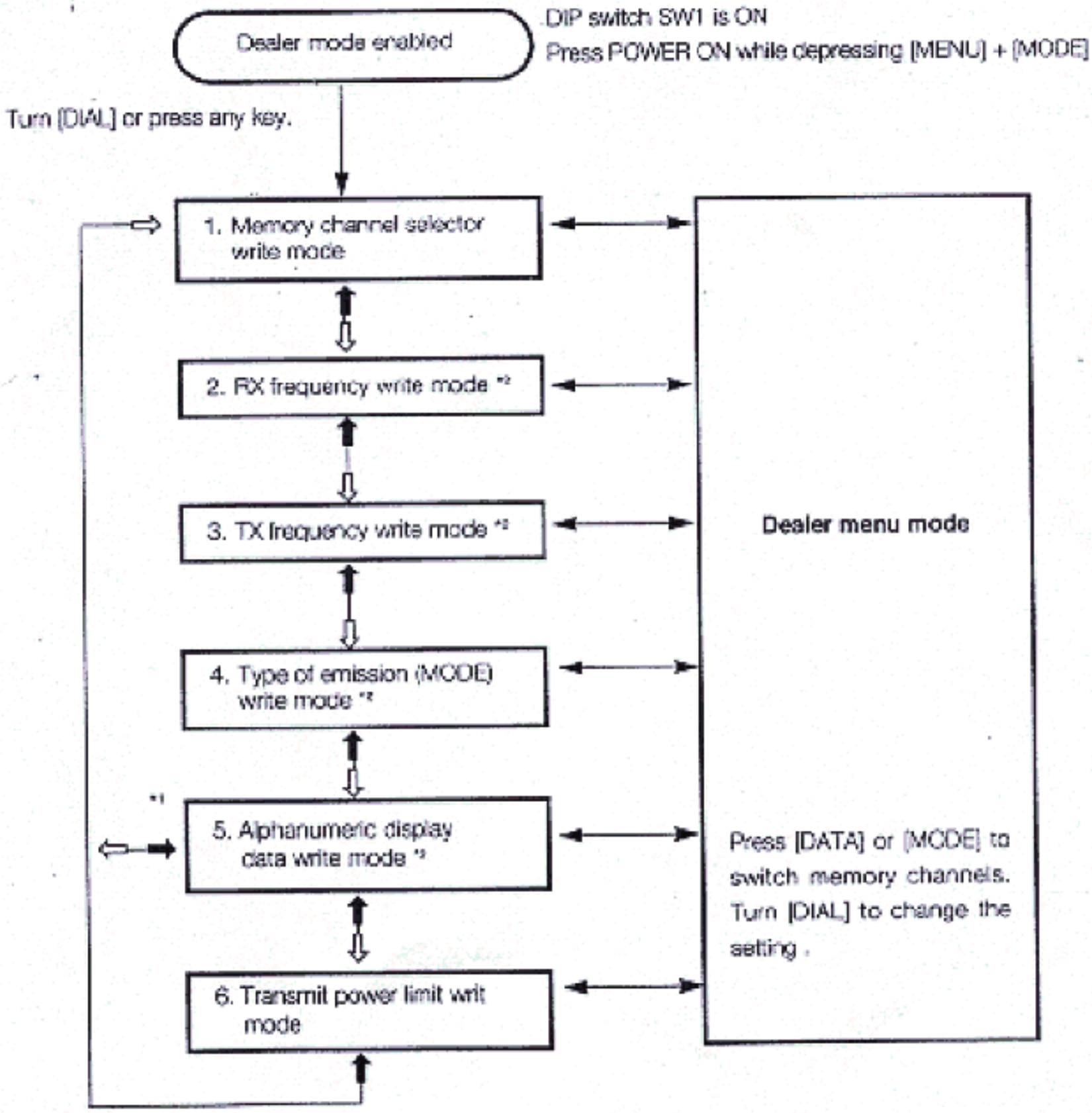
"HELLO" appears on the display, indicating the system has been reset.

- All reset does not clear adjustment data settings.
- If the power supply is cut off during all reset, the forced all reset is executed as soon as power is restored.

Battery reset

When power supply from the backup battery is interrupted, the factory default setting are restored, except for memory channels 01–10.

- Battery reset occurs automatically whenever the power backup fails to function.



*1 When the specified diode D7 is not present

*2 Press SCAN for line feed.

⬅ Press [MODE]

⇦ Press [DATA]

⬅ Press [MENU]

REALIGNMENT

Dealer Mode

- This mode allows dealers to select functions for users.
- Dealers can customize the receive frequency, transmit frequency, type of emission(MODE), alphanumeric display, transmission power limit and set functions.

Contents to be customized	Mode to be used	Purpose
Receive frequency	Receive frequency write mode	To write to memory channels
Transmit frequency	Transmit frequency write mode	
Type of emission(MODE)	Type of emission (MODE) write mode	
Alphanumeric display	Alphanumeric display data write mode	
Transmit power limit	Transmit power limit write mode	
Set function	Menu mode	Select function setting
	Memory channel selector mode	To select memory channels

● Procedure

1) Press [POWER] while depressing [MENU] and [MODE].

Dealer mode display

Press [DIAL] or any key, and enter Memory channel selector mode.

1. Memory channel selector mode (01)

This mode is for selector memory channels when writing frequency and other information to memory channels.

Second time : 01 USB only, the others are blank.

1) When [DIAL] is turned, channels ,including those not entered in memories are switched continuously.

2) Pressing [DATA] enables the receive frequency write mode.

2. Receive frequency write mode (00.000.00)

This mode is for writing receive frequency to memory channels. Frequency is set in single digits starting from the 10MHz to the 10Hz digit . The 1Hz digit is defaulted to " 0 ".

1). Turning the [DIAL] changes the digit to its minimum frequency setting.
2). When the setting of one digit is completed, press [SCAN] to move to the next digit. Digits are set in order from the 10MHz digit to the 10Hz digit. (When setting the 10Hz digit, for example, and the display shows 12.345.56)(00.000.00)
3). Pressing [DATA] enables the transmit frequency write mode.

Note:

- Setting begins from the 10MHz digit when the receive frequency write mode is first enabled.
- The set frequencies are checked to confirm they are within the specified receive frequency range.
- Setting all digits to " 0 " initializes the memory channel.
- In the receive frequency write mode, the digit being set flashes as it displays the frequency.
- If the transmit frequency happens to be the default setting (00.000.00). When writing the receive frequency is completed, the receive frequency setting is automatically written to the transmit frequency memory channel as well.
- Leading zeros are not suppressed in the frequency display.

( ) : Initial value

REALIGNMENT

3. Transmit frequency write mode

This mode is for writing transmit frequency to the memory channels. Frequency is set in single digits staring from the 10MHz digit to the 10Hz digit. The 1Hz digit is defaulted to "0".

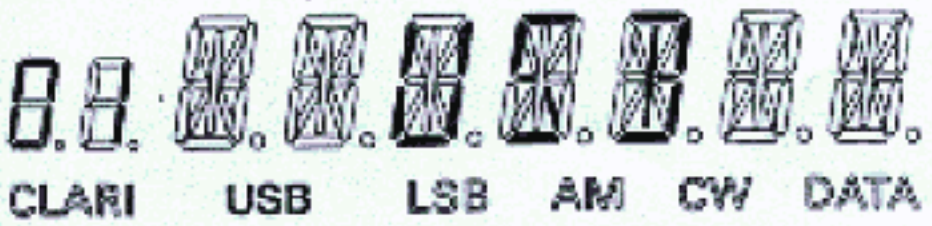
1). Turning the [DIAL] changes the digit to its minimum frequency setting.
2). When the setting of one digit is completed, press [SCAN] to move to the next digit. Digits are set in order from the 10MHz digit to the 10Hz digit.
3). Pressing [DATA] enables the type of emission (MODE) write mode. (When setting the 10Hz digit, for example, and the display shows 12.345.56)
4). When wishing to use the memory channel as a receive-only channel, set all digits to "0" , then press [DATA] to enable the type of emission (MODE) write mode.

Note :

- Setting begins from the 10MHz digit when the transmit frequency write mode is first enabled.
- The set frequencies are checked to confirm they are within the specified transmit frequency range.
- Setting all digits to "0" changes the memory channel to a receive-only channel.
- In the transmit frequency write mode, the digit being set flashes as it displays the frequency.
- Leading zeros are not suppressed in the frequency display.

4. Type of emission (MODE) write mode (USB)

This mode is used to write the type of emission to the memory channel.



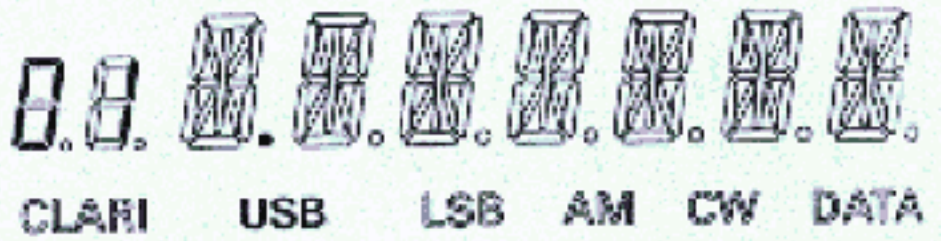
1). Turning the [DIAL] triggers a display that scrolls continuously in the following order:

→ USB → LSB → AM → CW →

2). Pressing [DATA] enables the alphanumeric display data write mode.

5. Alphanumeric display data write mode (Blank)

This mode is used to write alphanumeric display data (up to 7 digits) to the memory channels



1). Turning the [DIAL] triggers a display that scrolls continuously in the following order:

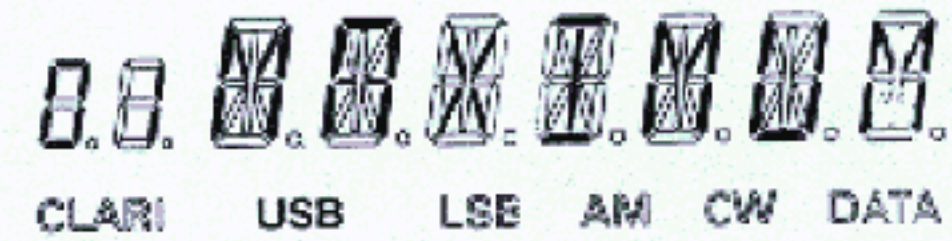
→ blank → A → B → .. → Z → 14 types of symbols → 0 → 1 → .. → 9 →

Blank	H	P	X	,	*	7
A	I	Q	Y	-	0	8
B	J	R	Z	/	1	9
C	K	S	$	=	2	
D	L	T	1/1	@	3	
E	M	U	<	\	4	
F	N	V	>	_	5	
G	O	W	+	#	6	

2). Digit are set starting from the left side. Pressing [SCAN] moves one digit position to the right.
3). Pressing [DATA] changes control to the:
- Transmit power limit write mode(when specified diode D7 is installed)
- Memory channel selector mode (when specified diode D7 is not installed)

6. Transmit power limit write mode (100W)

This mode is used to write the transmit power limit to the memory channel.



1). Turning the [DIAL] triggers a display that scrolls continuously in the following order :

→ MAXIMUM (100W) → HIGH (50W) → MEDIUM (25W) → LOW (15W) → MAXIMUM (100W) →

2). Press [DATA] to enable the memory channel switching mode.

( ) : Initial value

REALIGNMENT

Dealer menu mode

This mode is used select functions the dealer sets for the user.

Selecting the dealer menu mode

Press [MENU] while in the dealer mode's memory channel selector mode or any of its write modes.

Menu number selection

- To select menu numbers, press the [DATA] or [MODE] keys.

Selecting the setting contents

- To changes menu settings, turn the [DIAL].

Note :

- Menu numbers are designed to scroll in order continuously.
- Menu items are designed to scrol in order continuously.
- If the menu is scrolling, turn the [DIAL] to display the item, then select the desired setting.
- The selective call ON/OFF status and any memory code settings changes from the User menu mode will be reflected in the Dealer menu's settings.

Menu	Content
00	VFO transmit power and receive-only setting
01	MIC gain H/L setting
02	CW/selective call IF filter attachment
03	DATA (AFSK) IF filter attachment
04	A/P ON/OFF
05	AUX ON/OFF
06	Scan speed setting
07	BC AM 1/9kHz steps
08	Clarifier 10/1Hz steps
09	VOX ON/OFF
10	CW delay time setting (full/semi break-in setting)
11	CW side tone/pitch frequency setting
12	Power setting (H, M, L) display ON/OFF
13	Channel number display ON/OFF
14	DATA mode AFSK/FSK setting
15	DATA (FSK) IF filter selection
16	FSK shift width setting
17	FSK key polarity setting

Menu	Content
18	FSK H/L tone setting
19	FSK reverse setting
20	SCAN SW actuation enable/disenable
21	MENU SW actuation enable/disenable
22	MODE SW actuation enable/disenable
23	DATA SW actuation enable/disenable
30	Selective call ON/OFF
31	ID (own unit) code setting
32	Squelch opening time (unmute time) setting
33	Memory code A setting (call ID)
34	Memory code B setting (call ID)
35	Memory code C setting (call ID)
36	Memory code D setting (call ID)
37	Memory code A setting (character)
38	Memory code B setting (character)
39	Memory code C setting (character)
40	Memory code D setting (character)
41	User menu memory code setting ON/OFF
42	ID delay time setting

REALIGNMENT

Transfer mode

This mode is used to copy the memory and menu data from one TRC-80 unit to one or more others to create "TRANS".

● Procedure

1). Connect a cross cable (E30-3232-05) to the ACC1 connectors on two TRC-80 units, as shown in the figure.
2). Turn on the power of the unit receiving the data.
3). Enable the Dealer mode in the unit to be transfered, then press [DATA].

- As the unit enters the Dealer mode it automatically detects the connected second TRC-80 unit, displays "TRANS" and begins the transfering transmission.

4). When transfering ends normally, the first TRC-80 returns to the Dealer mode which is then shown on its display.

Note :

- Transfer is not possible when the destination diode setting of the two units differ.
- It is also not possible when neither of the two units is equipped with transmit power setting diodes.

VFO Functions

- Should the VFO mode fail to function, please check to see that Dip SW3 is set to ON.

1. Procedure

1) Press [MENU] to enables the user Menu mode.
2) Press [DATA] or [MODE] to select No.00.
3) Use [DIAL] to switch the memory to VFO.
4) Press [MENU] to select VFO.

2. Description

1) [DIAL] changes over from selecting memory channels to selecting VFO frequency.
2) [SCAN] changes over to selecting step frequency and the F.LOCK function.
   Pressing [SCAN] scrolls through the settings in the following order.
   10Hz→F.LOCK→100kHz→1kHz→10Hz
   Turning the [DIAL] after changing step frequency rounds the lower digit off to "0".
3) When in the user Menu mode, memory channels frequency and type of emission (MODE) are set in the VFO at the point control is switched from Memory to VFO.
4) [DIAL] and [MENU] are disabled during F.LOCK.
5) Even if AT tuning is established during VFO, the changing of frequency automatically credits the state of AT through.

Personal Computer Interface

In addition to commands (in the instruction manual) made available to users is the SR(system reset) command that is made available only to dealers.

Note :

- SRP1= Reset the user menu
  SRP2= Reset all
- The reset user Menu command resets all menu settings to the factory defaults.

User menu mode

This mode enables users to select varicus settings to suit their individual needs. The items that can be modified are listed below.

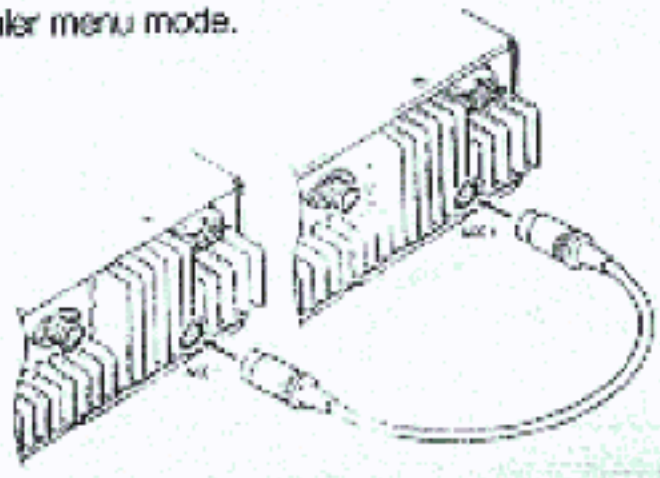
Menu	Contents
00	VFO/M
01	Transmit power switching
02	NB ON/OFF
03	Display switching frequency/alphanumeric
04	LOCK OUT ON/OFF
05	Scan busy stop switching TO/CO/OFF
06	Selective call ON/OFF
07	ID (own unit) code display
08	Memory code A setting (call ID)
09	Memory code B setting (call ID)
10	Memory code C setting (call ID)
11	Memory code D setting (call ID)
12	Memory code A setting (character)
13	Memory code B setting (character)
14	Memory code C setting (character)
15	Memory code D setting (character)

Selecting settings

- Begin by pressing [MENU] to display the User menu.
- Press [MODE] or [DATA] to select the desired item number.
- Use [DIAL] to change the setting.
- Press [MENU] once more to complete the change.

Note :

- Menu numbers are designed to scroll in order continuously.
- Menu items are designed to scroll in order continuously.
- Menu item number "00" can only be set when DIP SW3 is set to ON.
- Menu item numbers 08–15 can only be set when the user memory code setting in the Dealer menu mode is set to ON.
- Menu item numbers 01and 04 represent the channels prior to entering the user menu mode.
- If a Selective call kit is not installed, setting item number 06(user's own office code) to ON will only produce on the display. The selective call mode wil not be enabled.
- Switching of the [MENU] key ON/OFF can be inhibited from the Dealer menu mode.

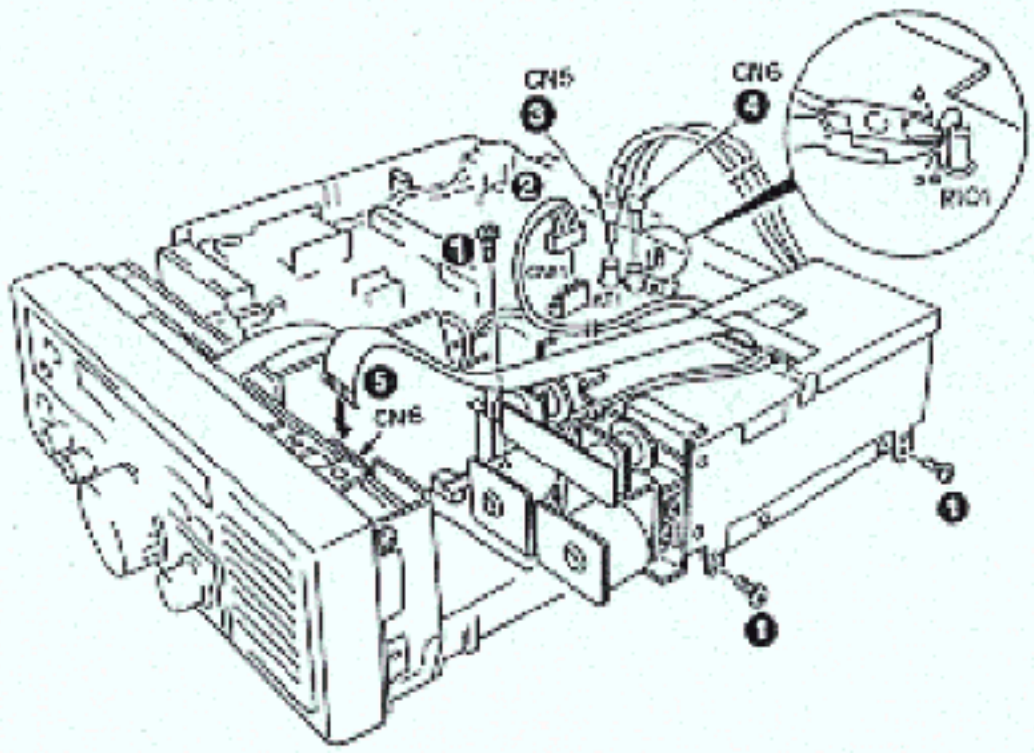


INSTALLATION/组装

Installing the AT unit (KAT-2)

Remove the case and shielding cover in advance.

1. Use screws (❶) to install the Antenna tuning unit.
2. Before insert the connector, cut the R101 wire by nippers.
3. Connect the lead with connector like pull out to front side to CN11(❷) on X45-3620-20 .
4. Connect the coaxial cable's white-marked line to the X45's CN5(❸) (AT1) and the other line to CN6(❹) (AT2).
5. Insert the flat cable from the tuner unit in CN6(❺) of control unit X53-3570-20.
6. Take care not to pinch the lead when reattaching the case.



自动调谐单元(KAT-2)安装方法

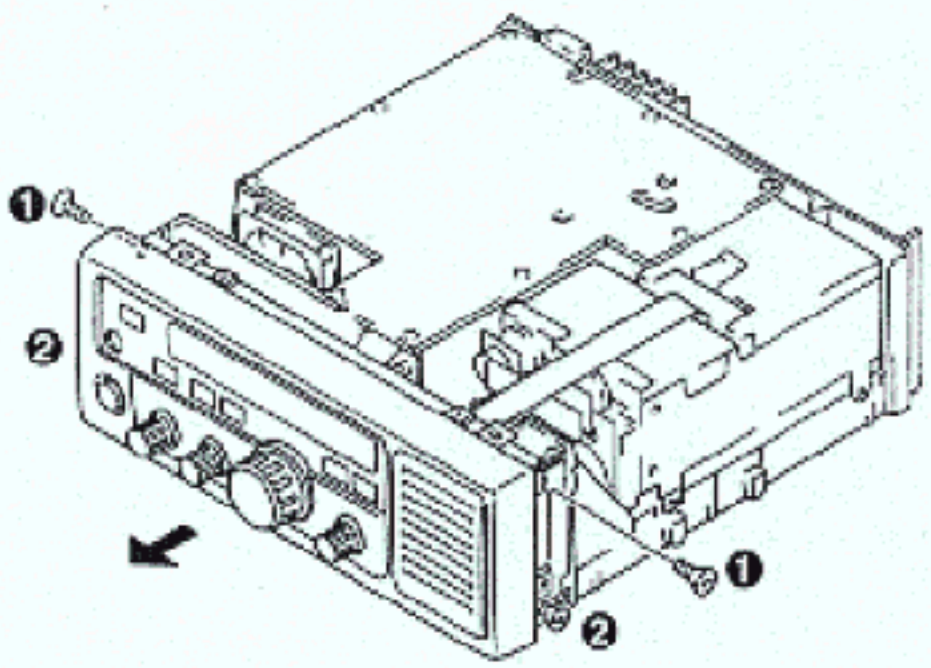
预先拆卸机壳和屏蔽盖。

1．用安装螺丝❶安装自动调谐单元。
2．在安装连接器之前，用剪钳切断R101的配线。
3．将带连接器的导线连接到X45-3620-20 CN11❷。
4．将同轴电缆中带有白色标志的一侧连接到X45的CN5❸(AT1)，将另一侧连接到CN6❹(AT2)。
5．将从调谐单元伸出的扁平电缆插入控制单元X53-3570-20 CN6❺。
6．安装机壳时，应注意导线的咬入。

Installing the selective call unit (KPE-1)

Remove the case in advance.

1. Remove the two screws (❶) on the upper left and right side of the front panel. Then loosen the two lower screws (❷) halfway and pull the front panel forward.



选择呼叫单元(KPE-1)安装方法

预先拆卸机壳。

1．取下位于前面板左右上部的2个螺丝❶，并旋松位于下部的2个螺丝❷至中途位置，然后朝前面方向拉出前面板。