## WEATHER SATELLITE RECEIVER

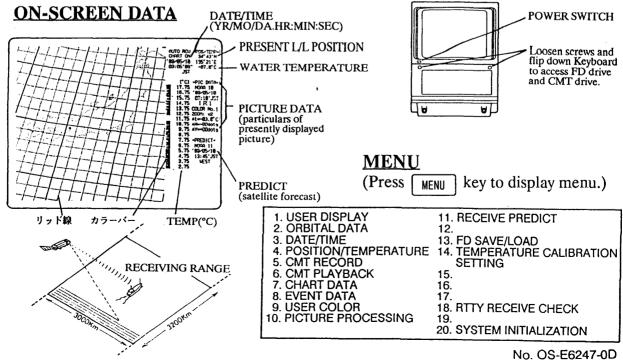
#### **SU-18**

# FLOPPY DISK VER. NO. 085-0122-016

## **OPERATOR'S GUIDE**

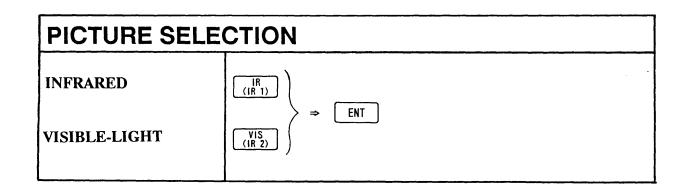
| BASIC OPERATING PROCEDURE                                 |
|---|
| INSERT FD (Floppy Disk)                                   |
| behind Keyboard   |
| (See below.)  |
| POWER ON  |
| OX COURT ( X VIEW A X ICK A COV O X                       |
| SYSTEM INITIALIZATION (Operating Mode Confirmation) . P.2 |
| (Operating Mode Confirmation) . P.2                       |
| (NORPHEAT DATE)   |
| (*) ORBITAL DATA CONFIRMATION P.3                         |
| CONFIRMATION  |
| (A) DATECTIME   |
| (*) DATE/TIME<br>CONFIRMATION                             |
|   |
| (*) L/L POS & WATER TEMP                                  |
| CONFIRMATION P.6  |
|   |
| RECEIVING P.7   |
| (in auto rec)   |
|   |
| GRID CALIBRATION P.9                                      |
|   |
| TEMP CALIBRATION P.9                                      |
|   |
| PRINTING   P.19   |
|   |
| RECORDING P.11  |
| (in outs see)   |
| (in auto rec) PLAYBACK P.13                               |
| (*) Confirmation necessary to receive pic-                |
| ture properly.  |

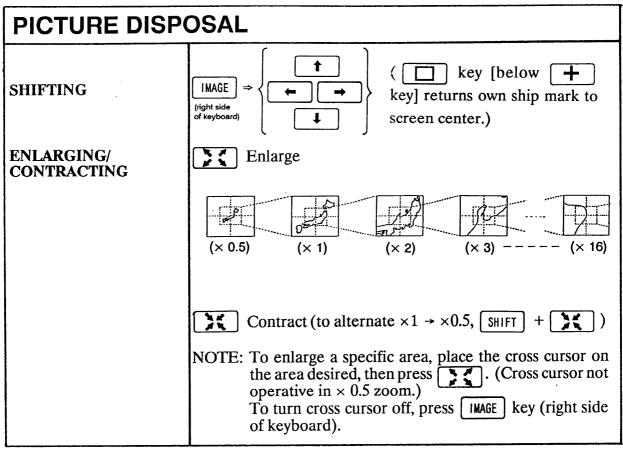
| DATA ANALYSIS                                    |
|--|
| PICTURE SELECTIONP.13                            |
| PICTURE DISPOSAL                                 |
| SETTING TEMPERATURE RANGEP.14                    |
| COLOR BAR SELECTIONP.15                          |
| PICTURE PROCESSING (INT. REJ/TEMP. CONTOUR)P.17  |
| AUTO PRINT MODE SETTING                          |
| CHANGING PICTURE DISPLAY MODE                    |
| OTHER FUNCTIONS                                  |
| PLOTTING CHART/EVENTP.20                         |
| SAVING/LOADING<br>CHART DATAP.21                 |
| READING WATER TEMP & L/L DATA OF CURSOR POS      |
| ERASING ALL CMT DATA (FORMATTING CMT)P.22        |
| FORMATTING FLOPPY<br>DISK (FD)P.22               |
| ENTERING NEW SATELLITE DATA/SYSTEM SAVE, ETCP.23 |

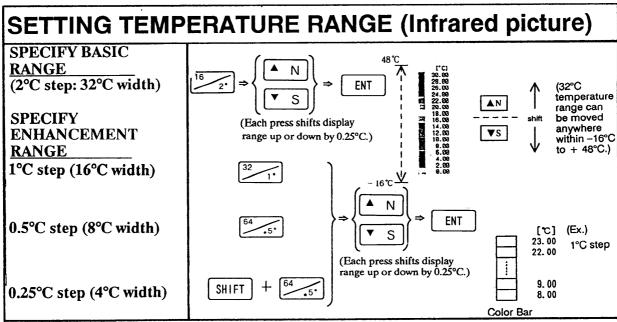


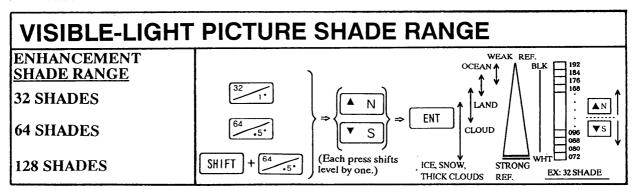
No. OS-E6247-0D (9003,tosa)

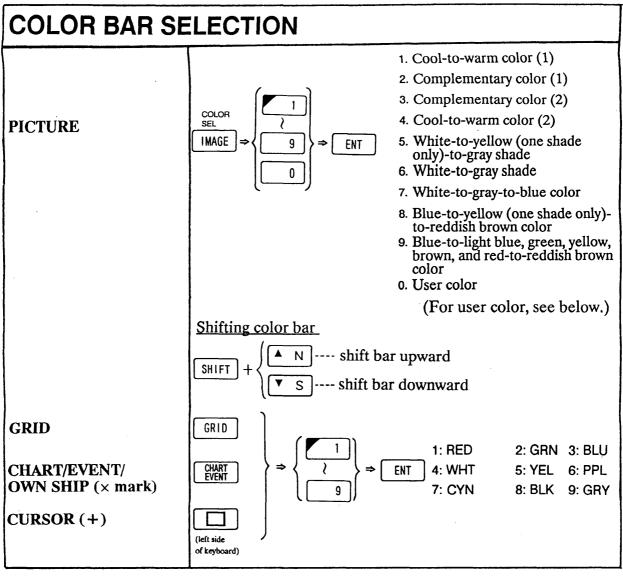
#### PICTURE PLAYBACK (Avoid playback when the receiving time is approaching, provided you wish to receive the data.) **PREPARATION** Insert cassette or FD containing the picture to be played back. (1) Cassette Tape CALL UP CMT MENU ENT PLAYBACK MENU FILE LIST FILE No. [] TO CONDUCT FILE FILE LIST 88/12/03 13:33' IR 2) 88/12/03 18:16' VIS 5) 88/12/03 13/33' **SEARCH** FILE LIST FILE No. [] SPECIFY FILE Specify File No. ⇒ ENT (VIS: Visible-light, IR: Infrared) NUMBER [FILE PLAYBACK] ⇒ [PICTURE PROCESSING] ⇒ [GRID CALCULATION] (Messages displayed during play back process) If, for example, file no.4 ('88/12/03 18:16', visible-light picture) is selected, it is transferred to the memory bank which is displayed at the right-hand side of the screen. At that time, existing chart/event data in the memory is replaced with those of picture to be played back. (2) FD TO LOAD FD MENU ENT

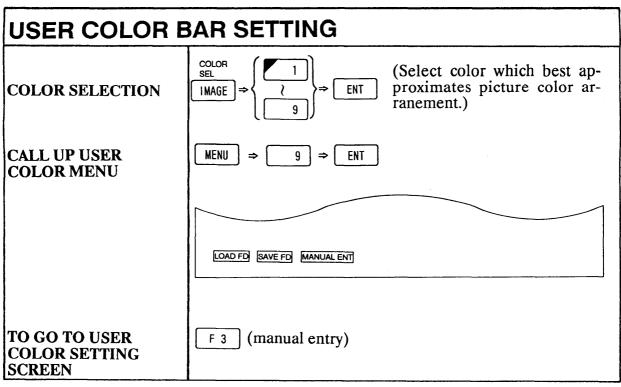


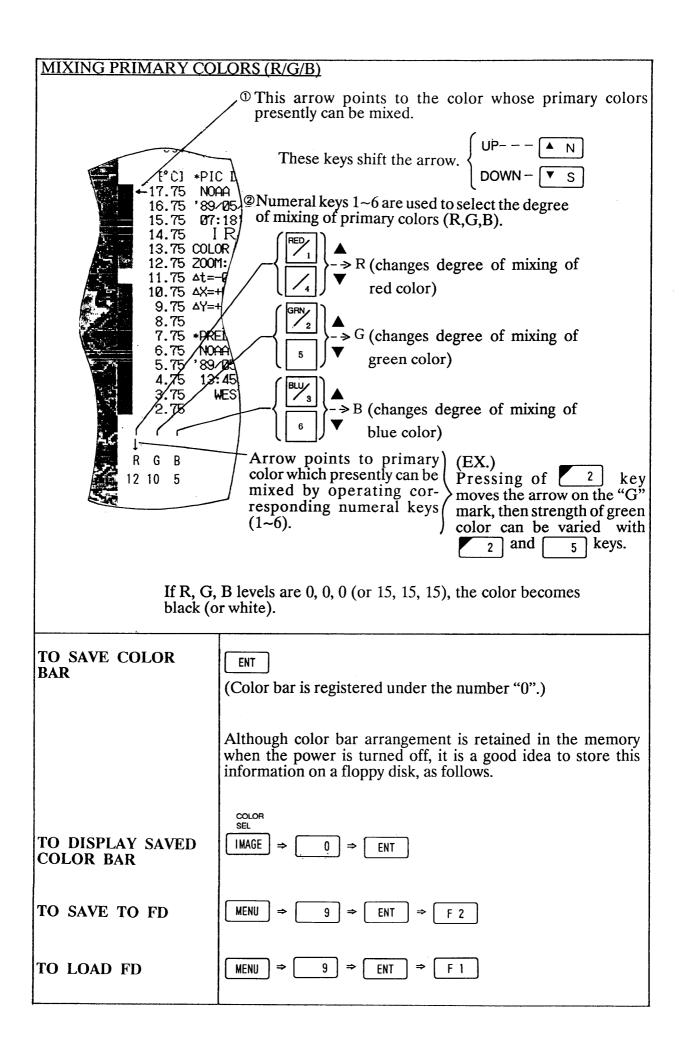


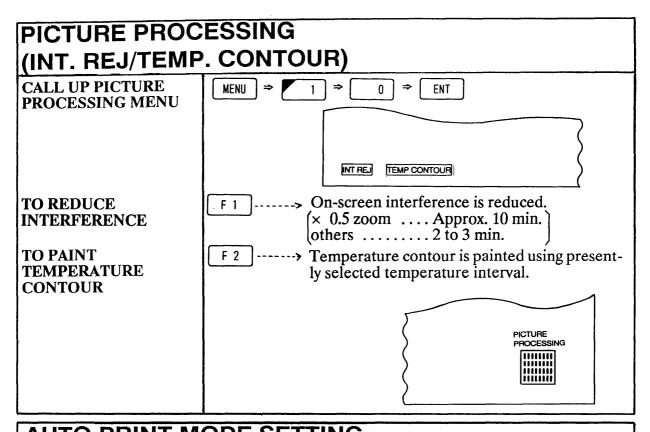


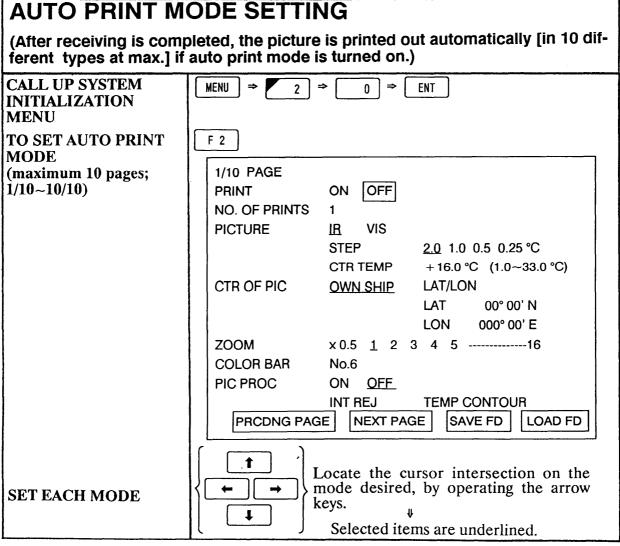


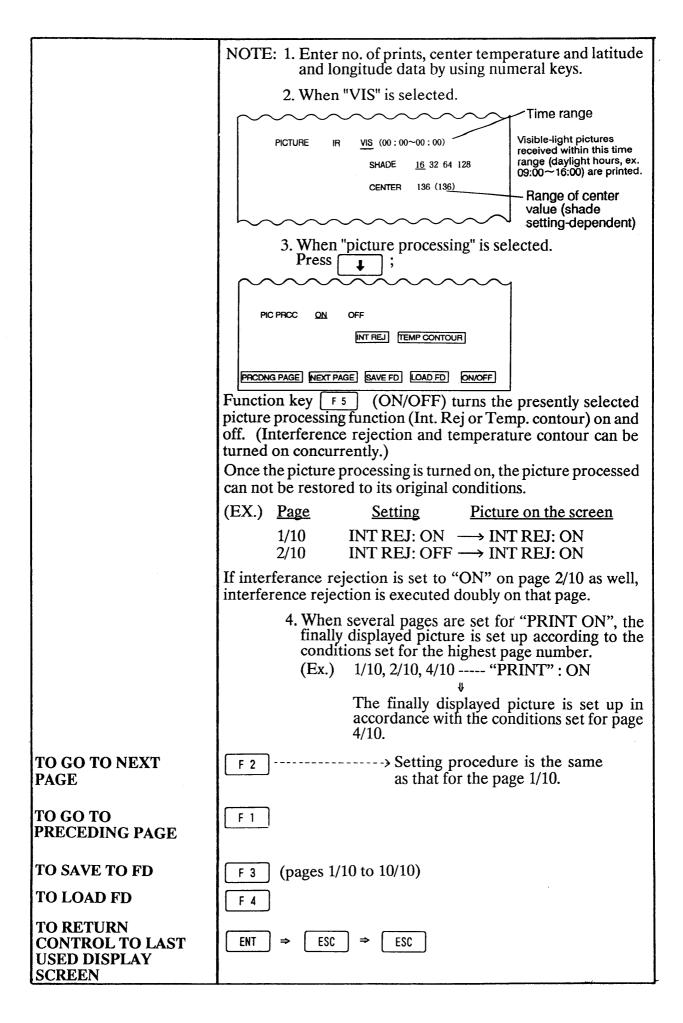


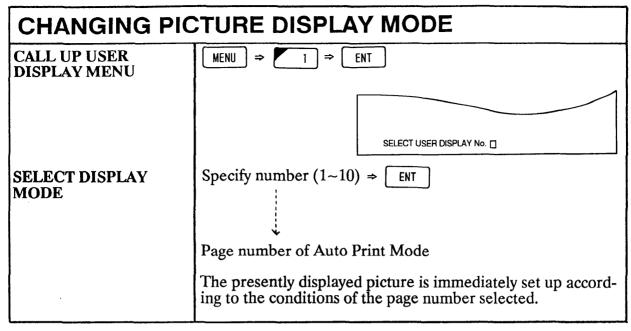


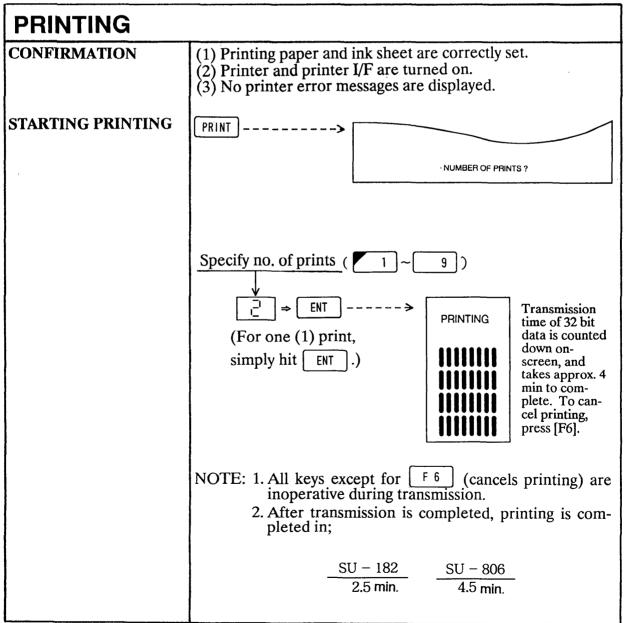


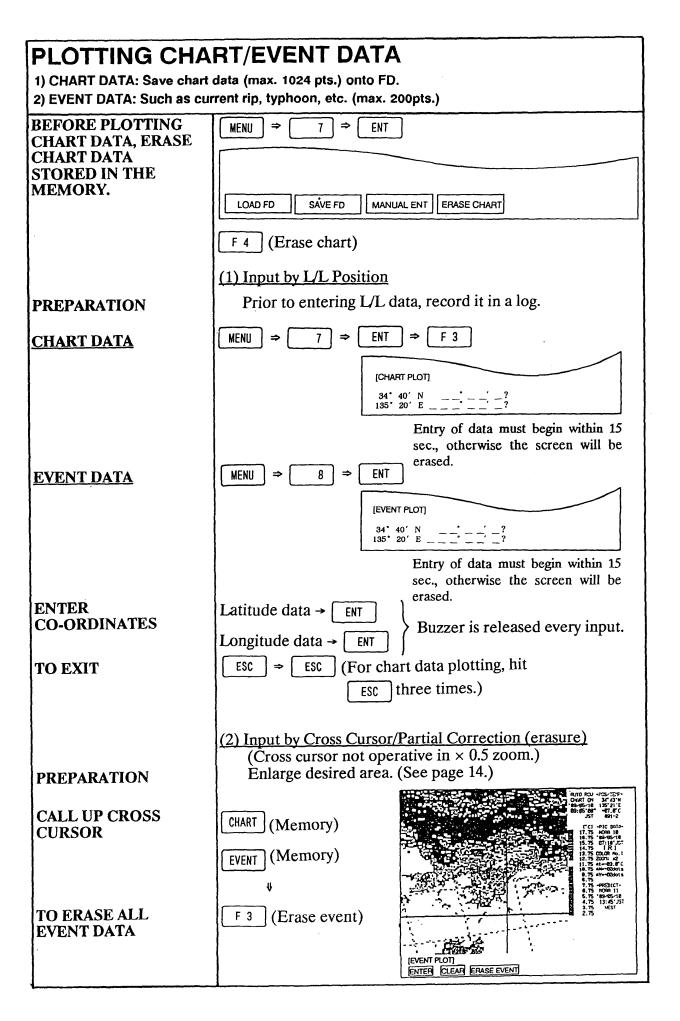








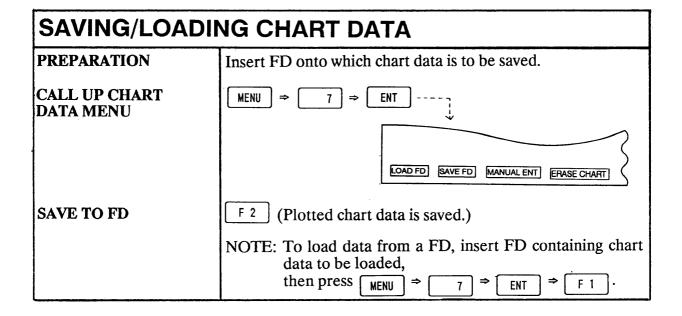


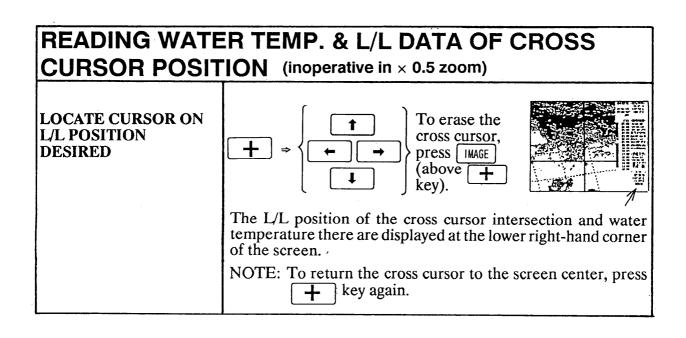


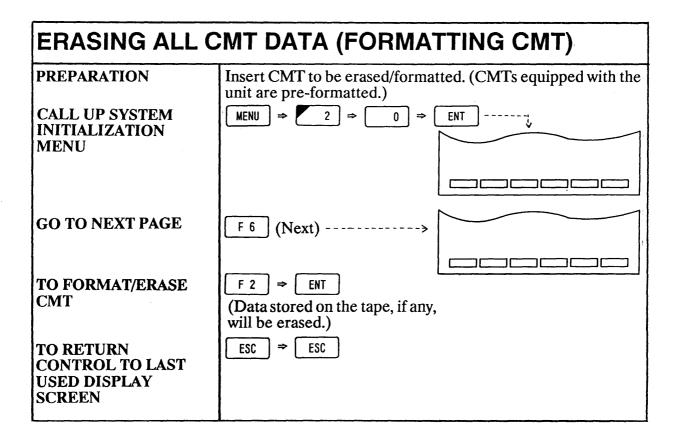
INPUT | Locate the cross cursor on the desired L/L pos. ----> F 1 |

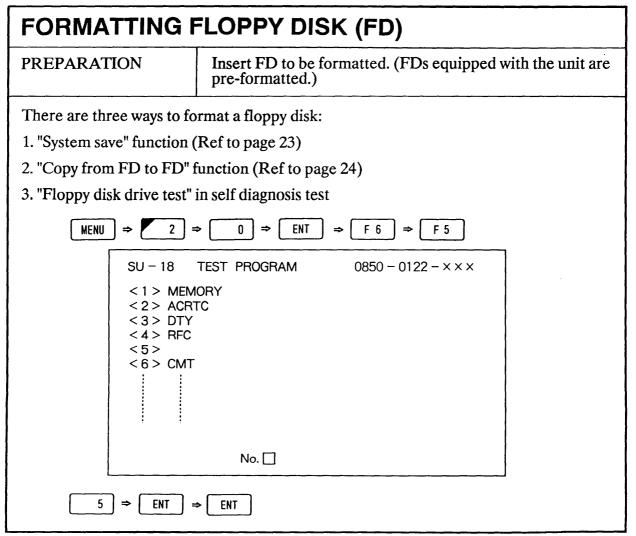
Locate the cross cursor on the desired L/L pos. ----> F 2 |

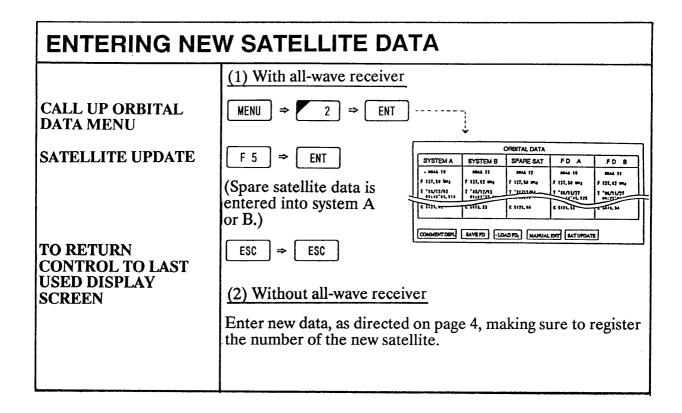
TO EXIT | ESC |

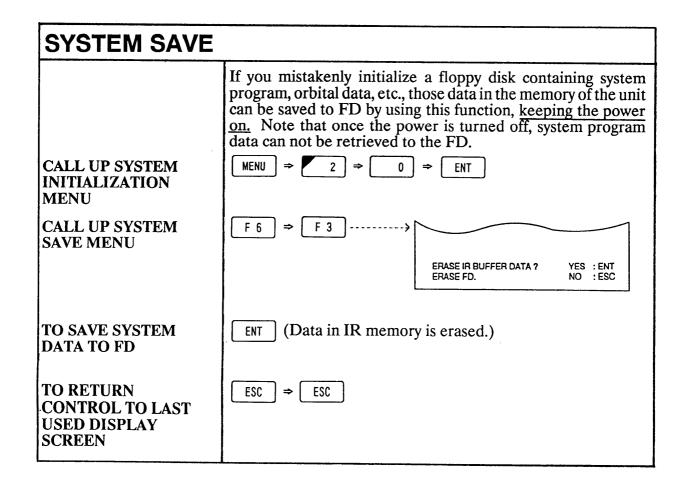


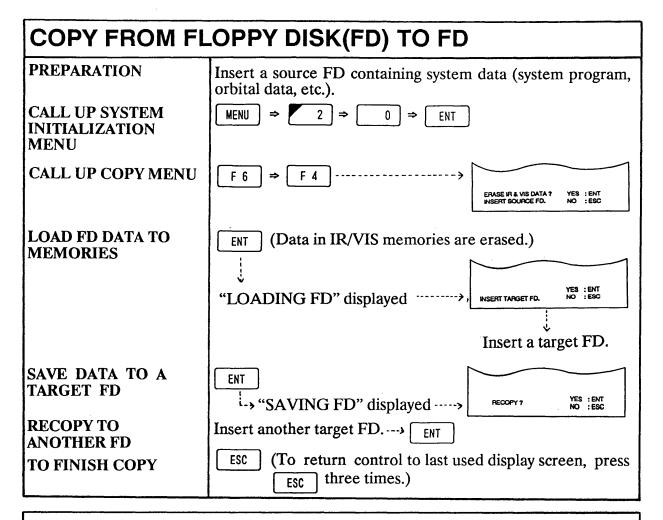












### TEMPERATURE DISPLAY (Infrared picture)

This unit displays temperature colors from -16°C to +48°C. Temperature display within above range is as follows.

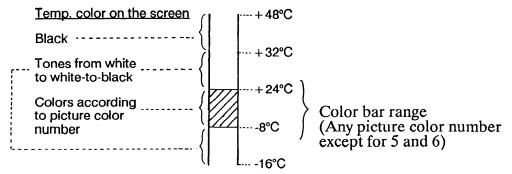
-16°C to +32°C : Tones from white to white-to-black

 $\lfloor +32^{\circ}C \text{ to } +48^{\circ}C : Black$ 

NOTE: Temperatures lower than -16°C and higher than +48°C are displayed in white and black, respectively.

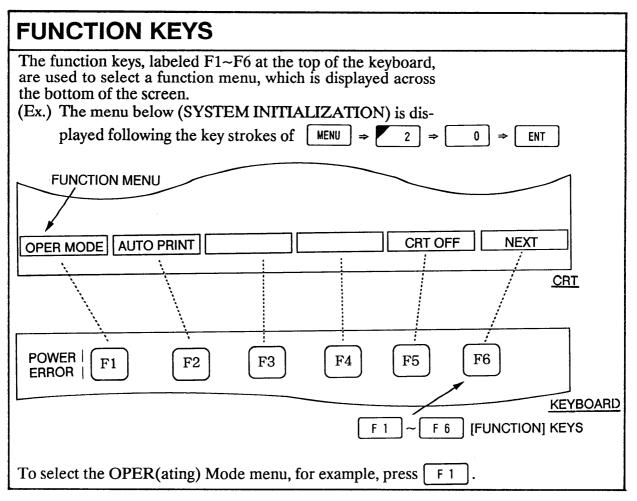
However, when a color bar range (16 colored gradation) is selected, the selected range is displayed in colors according to the picture color number and the other ranges (outside the range of the color bar) are shown in tones and black as mentioned above.

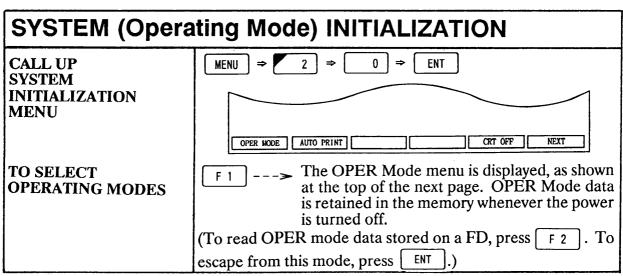
(EX.) In case that color bar range is  $-8^{\circ}$ C to  $+24^{\circ}$ C.



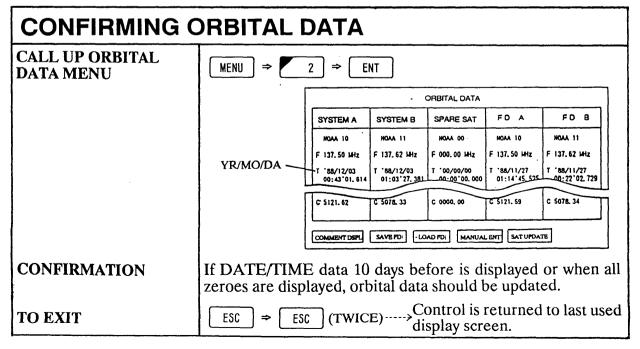
NOTE: Only when picture color number 5 or 6 is selected, temperatures outside the range of the color bar are shown in black and white (not tones).

# Press ENT after each line of data entered. Press ENT to retain presently used data. To clear incorrect data, press C -----> Entire line of data is erased. (Note however that if the cursor is at the head of a line of data when this key pressed the preceding line is erased.)



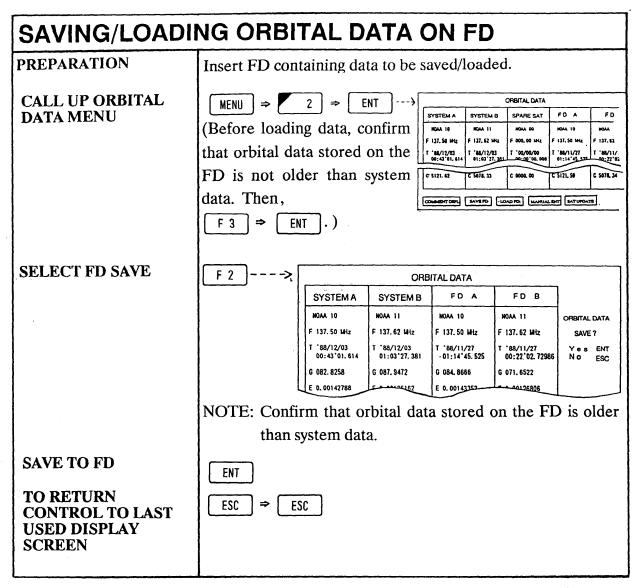


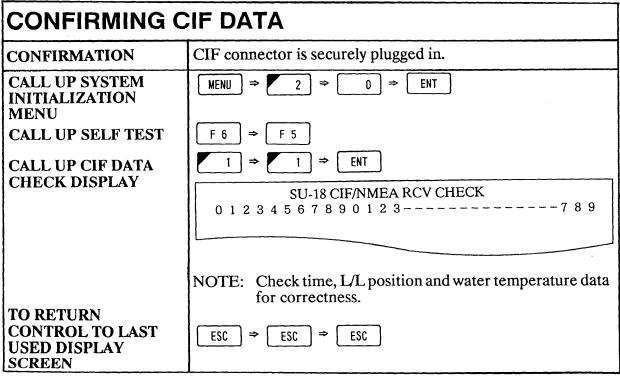
|  | DATE/TIME JST UTC (time standard)  |
|--|--|
|  | DATE/TIME READ <u>AUTO</u> MAN (AUTO: SATNAV/GPS required)   |
|  | TEMPERATURE READ <u>AUTO</u> MAN (AUTO: temp. indicator required)  |
| )  | L/L POSITION READ <u>AUTO</u> MAN (AUTO: Navigation aid required)  |
|  | NAVIGATION LORAN A LORAN C DECCA DR OMEGA <u>SATNAY</u> GPS  |
|  | RECEIVING MODE AUTO MAN (after power is applied satellite forecast calculation is initiated)                           |
|  | AUTO TEMP CALIB ON OFF (automatic temperature calibration for each satellite. Compensation value is set on MENU "14".) |
|  | AUTO IR ON OFF (automatic recording after picture is CMT REC VIS ON OFF) completely received)                          |
|  | (00:00-00:00) (time range for automatic visible-light picture recording)   |
|  | RTTY SHIFT WIDTH 850 425   SHIFT MODE NOR REV (receiving mode of internal teletype)   BAUD RATE 50 75                  |
|  | AUTO CHART DISPLAY ON OFF (chart is automatically displayed after picture is completely received)                      |
|  | SAVE FD LOAD FD (Saving data to FD/loading data from FD for all modes above)   |
| SET EACH MODE<br>(from "date/time" to<br>"auto chart display") | Locate the cursor on the mode desired, by operating the arrow keys.  The selected mode is underlined.                  |
| TO SAVE DATA TO FD   | F 1 (takes approx. 10 sec.)  |
| TO REGISTER  | ENT (Press to register selections and escape from OPER   |
| SELECTIONS   | mode.)   |
|  | (After   ENT   is pressed, satellite forecast, which takes several   |
| 1  |  |
|  | seconds to complete, commences if the automatic receiving  |
|  | mode is selected.)   |
| TO RETURN  |  |
| CONTROL TO LAST  | ESC ⇒ ESC (TWICE)  |
| USED DISPLAY   |  |
| SCREEN   |  |
|  |  |



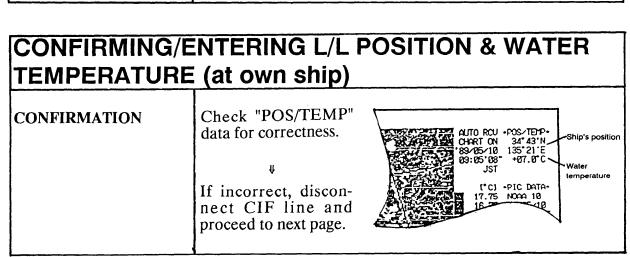
#### (Performed automatically when SU-18 is interfaced with an all-wave receiver. Manual updating should be done weekly.) (1) AUTOMATIC ENTRY The all-wave receiver is properly tuned when the two LED's of **PREPARATION** the DTY tuning indicator light alternately. MENU | ⇒ 🖊 8 | ⇒ 1 ⇒ **CONFIRM RTTY** RECEIVING CONDITION SU-18 RTTY CHECK 0 1 2 3 4 5 6 7 8 9 0 1 2 3 - - - - - -NOTE: If the data contains errors (for example, randomly placed question marks [?] or exclamation marks [!]), change to another freq. TO RETURN ESC CONTROL TO LAST USED DISPLAY **SCREEN** (2) MANUAL ENTRY Orbital Data **PREPARATION** CALL UP ORBITAL 2 | ⇒ MENU **ENT DATA MENU** MANUAL ENTRY F 4 M -2. 80984 R 0.98284 R 0. 99206 C 5078, 33 C 5121.62 SYSTEM A SYSTEM B **ENT** SPECIFY SATELLITE F 1 (To select **ORBITAL DATA** 137.50MHz.) SYSTEM B SYSTEM A SYSTEM A NOAA 10 NOAA 11 NOAA10 SELECT A OR B WITH FUNCTION KEY. 137. 50 MHz A 137. 62 MHz B F 137, 50 MHz F 137, 50 MHz F 137, 62 MHz 188/12/03 T '88/12/03 00:43'01.614 **ENTER ORBITAL ENT DATA** (other data) YR (last 2 digits) MO DAY **⇒** 1 | **⇒** 7 1 ENT F 2 **UPDATING** -> Enter data as above. ANOTHER SATELLITE (To select 137.62MHz) TO EXIT ⇒ | ESC **ESC** ---> Returns control to last used Takes several display screen. seconds to change screen.

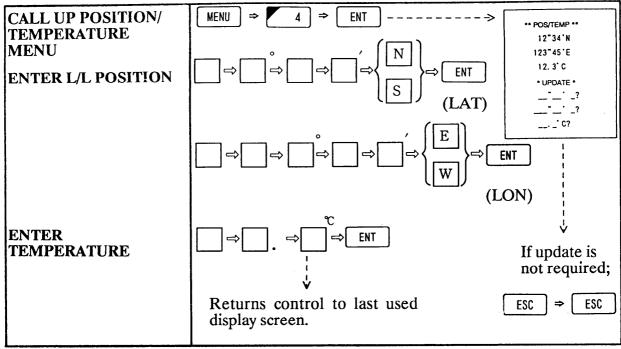
**UPDATING ORBITAL DATA** 

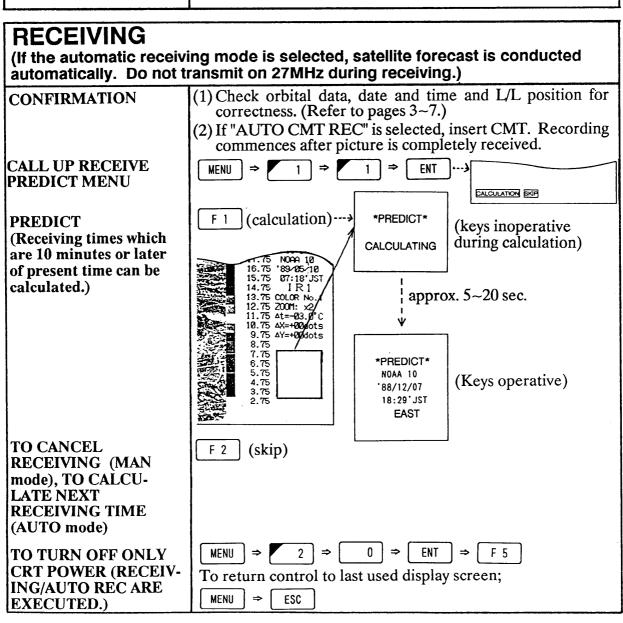


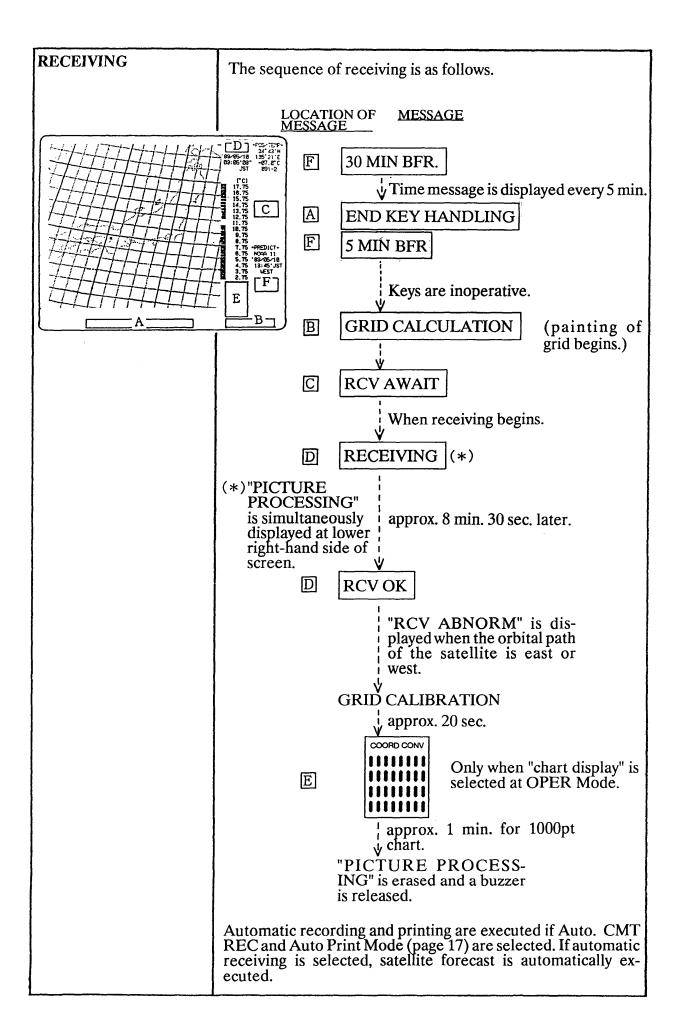


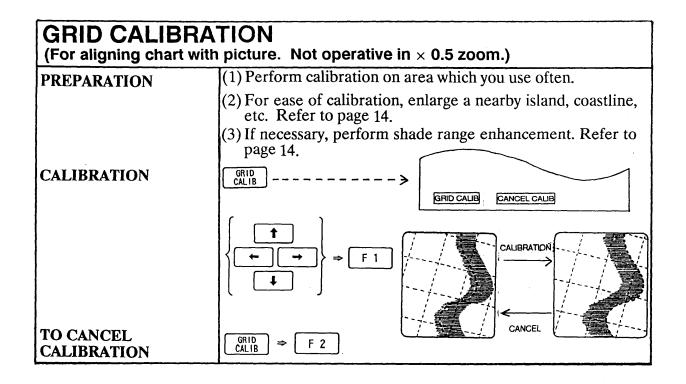
#### **CONFIRMING/ENTERING DATE & TIME** (Automatically executed if SATNAV or GPS is interfaced. Information is retained by a keep-alive battery whenever the power is removed.) Check date and time CONFIRMATION data for correctness. present If incorrect, discondate nect CIF line and (°C) •PIC DATA• 7.75 NOAA 10 and time proceed to next step. CALL UP DATE/TIME ENT MENU The time at the moment [ ENT key is pressed is displayed. ENTER DATE AND **ENT** TIME \*\* DATE/TIME \*\* 88/12/06 YR MO DA →2:34:56 UTC (last 2 digits) \* UPDATE \_/\_/\_? ENT START? HR (24HR) MIN (UTC) SEC ENT in synchroniza-If update is tion with time signal. not required; ESC Returns control to last used display screen.

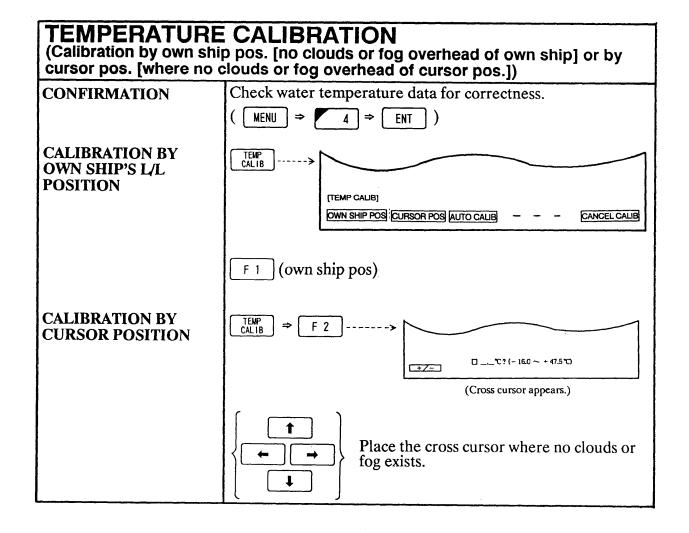


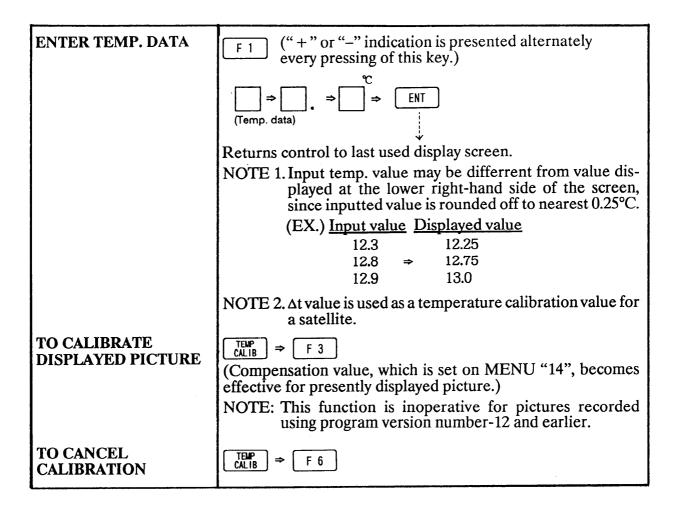


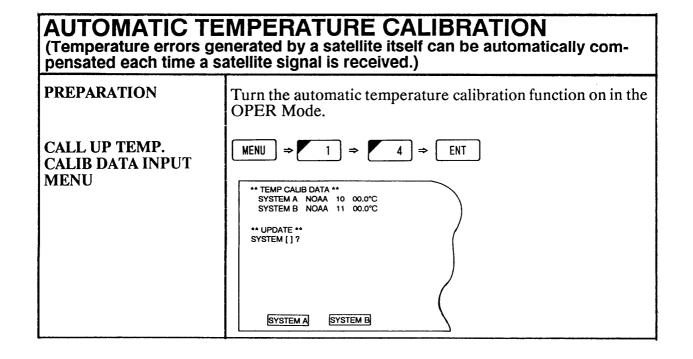


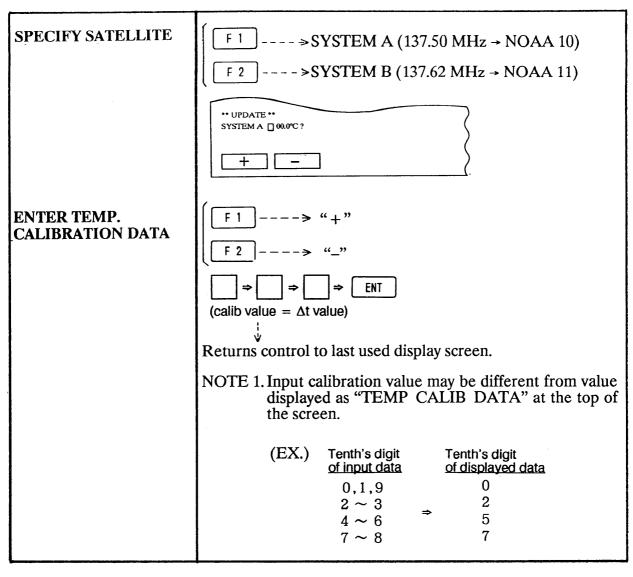


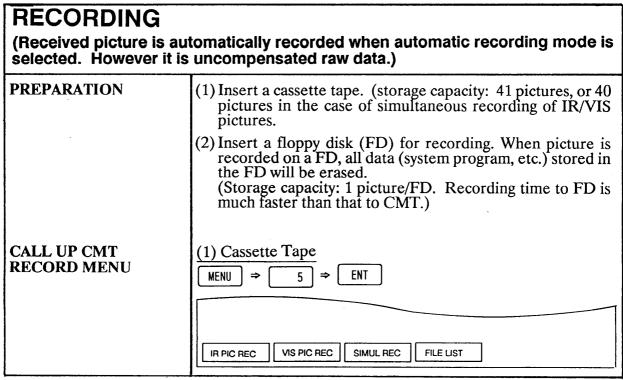


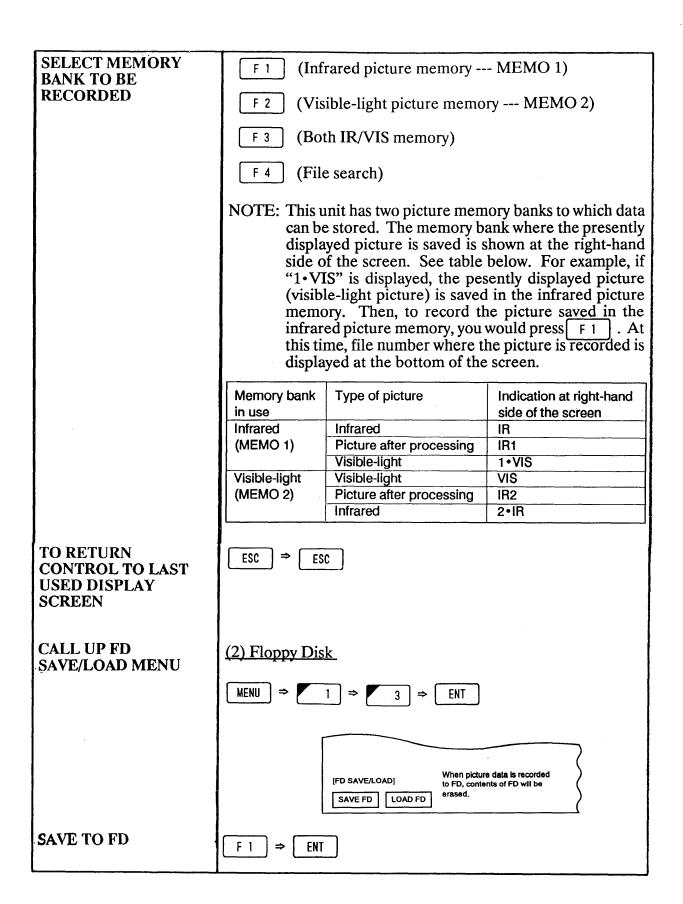












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