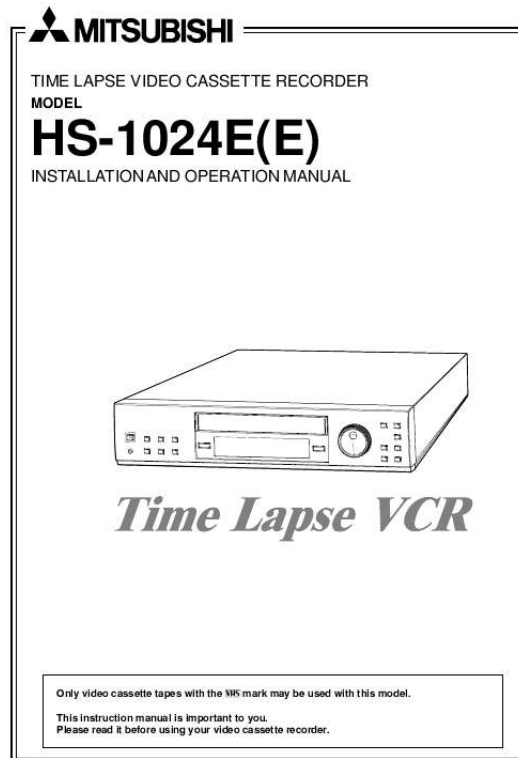




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You can read the recommendations in the user guide, the technical guide or the installation guide for MITSUBISHI HS 1024E. You'll find the answers to all your questions on the MITSUBISHI HS 1024E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual MITSUBISHI HS 1024E  
User guide MITSUBISHI HS 1024E  
Operating instructions MITSUBISHI HS 1024E  
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Instruction manual MITSUBISHI HS 1024E



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**Manual abstract:**

2 Introduction Note A point to notice Info. Supplementary information Caution and Care **CONDENSATION IS THE ENEMY OF VIDEO RECORDERS**  
**WHAT IS CONDENSATION?** 1. When a very cold drink is poured into a glass, the water droplets which form on the outer surface of the glass are an example of condensation. 2. If the VCR is exposed to a rapid increase in temperature (such as warming it in a cold room or after transporting it from a cold location to a warm one) condensation may form on the tape transport mechanism inside the VCR. By heating the inside of the VCR, it can dry up the moisture and prevent damage to the VCR or video tape from condensation. To do this, plug the VCR in and switch the VCR POWER to ON. Leave the VCR on for at least 2 hours before using it for recording or playback. **CONDENSATION IS LIKELY TO OCCUR WHEN:** 1. The VCR is moved inside from outdoors or from a cold room to a warm one.

2. A cold room is heated quickly. 3. Humidity is high. Note · Avoid using the VCR where cold air (e.g., from an air conditioner) will blow directly on it. Never place anything containing water on top of the VCR; (e.g., vases, cups, etc.). Heavy objects (e.g., TV) should never be placed on the VCR **NEVER TOUCH OR INSERT ANY OBJECT INSIDE THE VCR** Touching the inside of the cabinet or inserting foreign objects of any kind not only creates a safety hazard but can also cause extensive damage. **PROTECT THE POWER CORD** Damage to the power cord may cause fire or shock hazard. When unplugging the power cord, hold it by the plug only and pull out carefully. **UNPLUG THE POWER CORD DURING A LONG ABSENCE** Turn the power off and unplug the power cord during a long absence. **MAINTAIN GOOD VENTILATION** Do not obstruct the ventilation holes on the VCR. For maximum ventilation, place the unit on a hard level surface only, and ensure it is not covered during use. **WHEN NOT IN USE** When you finish operating the VCR, always unload the cassette and turn the VCR off.

**CABINET CARE** Never use petroleum-based cleaners. Clean with a soft cloth moistened with soap and water and wipe dry. PVC cables or leads should not be left in contact with the cabinet surface for long periods. **INSTALLATION LOCATION** For excellent performance and lasting reliability, install in a location that is: 1. Well ventilated, out of direct sunlight and away from direct heat. 2. A solid, vibration-free surface. 3. Free from high humidity, excessive dust and away from magnetic fields. Note Never move the VCR without first removing the tape.

**CARE OF THE VIDEO CASSETTE TAPES** · Avoid vibration or shock. · Do not place near a strong magnetic field (e.g., a motor, transformer or magnet). · Never place or store in direct sunlight. · Avoid dusty places. · Place the cassette in its case and store vertically. · Never store tape in high humidity. **WARNING:** To prevent fire or shock hazard, do not expose this apparatus to rain or moisture. Reference page Introduction 3 **ENGLISH Features** Up to 27 hours of recording: in addition to regular 3-hour recording mode, it has 12-hour and 24-hour time lapse modes.

**Audio Recording High Resolution and Image Quality Automatic Head Cleaning Easy Menu Setting on Screen Easy Cueing with Alarm Recording One Button Recording Check All or Part Front Panel Lock Protection against Power Failure Variety of Search Functions Recording Options for Varied Needs · Daily/weekly/holiday timer recording · Alarm recording · Series recording · Remote recording · Repeat recording Special Playback Features · Still picture · Speed search using shuttle ring · Frame-by-frame and field-by-field playback using jog dial Contents Introduction Caution and Care .....**

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**Lock button** Press to lock the VCR into the current mode. **EJECT button** Press to remove the cassette. **Fluorescent Display** next page **REC button** Press to begin recording.

**COUNTER RESET button** Press to reset the counter to "00000". **SEARCH button** Press to display the <SEARCH FUNCTION> menu. **TIMER REC button** Press to start timer recording, when you have programmed your VCR to record. **PAUSE/SHUTTLE HOLD button** During recording, press to stop the tape movement temporarily. Press again to continue the recording. During playback, press to obtain a still picture. During special effects playback using **SHUTTLE ring**, press to fix the playback speed. Reference page Introduction 5 Controls and Functions (Cont.) **Fluorescent Display (Counter Memory Stop/Month) indicator** Illuminates during the counter memory stop. Also, flashes while the VCR is turned off and the month of the VCR's clock has been set on the fluorescent display.

**(Power Loss) indicator** Illuminates when the VCR is turned on after a power failure occurs during recording. **(Alarm Recording) indicator** Flashes during alarm recording and stays on when the alarm recording is finished. **(Time Date Search/Day) indicator** Illuminates during the time date search. Also, flashes while the VCR is turned off and the day of the VCR's clock has been set on the fluorescent display. **(Index Search) indicator** Flashes when recording an index signal and illuminates during the index number setup and the index search.

**(Index nan outlet.** Even if the VCR is turned off, loading a tape will automatically cause it to turn on. Use only video cassette tapes marked . **Important notice:**  
· Use only standard grade VHS tapes for reliable video recording. · It is recommended to use E-180 or E-240 tape.

Do not use a tape longer than E-240. **Note** · We recommend that you take any broken or torn tapes to a professional for repair. The adhesives on many common types of tape could damage the head of your VCR. **Recommended number of tape use** It is recommended that the cassette tape be replaced with a new one depending on the recording time mode and type of tape used. **Recording time mode** 3H L12H L24H **Number of tape use** E-240 E-180 100 50 60 30 35 17 **Loading 1.** Insert the tape into the cassette slot by holding it, so that the long narrow edge with the contents label faces towards you. · **The Cassette Status indicator** illuminates on the fluorescent display when the tape is inserted. **Manual Recording 1.** Turn on the VCR and peripheral devices. 2.

**Load a tape with the erase prevention tab intact.** **Note** · Your VCR has a protection circuit **INCORRECT** which will eject the tape if it is loaded improperly. If the VCR ejects the tape, remove it completely and check that the long narrow edge with the contents label is facing towards you, and the clear plastic window that shows the video tape is facing upwards. Wait a few seconds, and try inserting the tape again. **Info.** · · · The VCR automatically turns on when the tape is loaded, **AUTO POWER ON.** The VCR automatically plays back the tape if the erase prevention tab is removed, **AUTO PLAY.** You cannot insert a tape while the VCR's all buttons are locked and the **Lock All indicator ( )** is illuminated. 3. Press **REC/PLAY MODE button** to select the desired recording mode.

· The recording/playback mode shown on the fluorescent display is based on using an E-180 tape for recording/playback. Refer to Recording/playback time below for the actual recording/ playback time when E-180 or E240 tape is used. 4. Press **REC button** to begin recording. 5.

Press **STOP button** to stop recording. **Unloading 1.** Press **EJECT button** on the front panel of the VCR. 2. Remove the tape.

· **Note** When ejecting the tape during recording, press **STOP button** once to stop recording and then press **EJECT button** to unload the tape. · You cannot eject a tape while all of the VCR's buttons are locked and the **Lock All indicator ( )** is illuminated. **Info.** · · · · The VCR will eject a tape even if the power to the VCR is turned off (as long as the VCR is plugged into an outlet), **POWER OFF EJECT.** · Preventing accidental erase Tapes come with an erase prevention tab which, when removed, prevents the tape's contents from being erased or recorded over. If the tape you insert in the VCR has the erase prevention tab removed, your VCR will automatically eject it if you attempt to record on it. **Recording/playback time** E-180 3h 15h 27h E-240 4h 20h 36h **Info.** erase prevention tab 8 **Basic Functions Note** A point to notice **Note** If the tape you insert in the VCR has the erase prevention tab removed, the VCR will automatically eject it if you attempt to record on it. The **REC button** will not function unless a tape is in stop or pause mode. A tape recorded by this VCR may not be played back correctly by another VCR.

**Info.** Press the **PAUSE button** to momentarily stop recording. Press it again to resume recording. To protect the tape, the pause mode is automatically cancelled after approximately 5 minutes. Page 24 for the VCR's movement when the tape reaches its end during recording. 3H L12H L24H **Supplementary information** Audio recording/playback The 3H mode and the modes with the letter "L" (L12H and L24H) are for audio recording and playback on the linear track. **Note** When the tape reaches its end during playback/fast forwarding VCR's function varies by the setting of **TAPE END** in the **FIRST TIME SET UP** menu. · · Audio will not be recorded if peripherals for audio are not connected to the **AUDIO IN** connector. The longer the recording mode is set, the worse the sound quality gets. In L24H mode, the sound quality is of the degree that the speaking voice can be heard.

**VCR's function TAPE END setting** Playback Stop VCR automatically rewinds to the beginning of the tape and stops. **Fast Forward Stop** **STOP** or **REWIND REPEAT** or **ALARM-PROT** Recording Check Function When the VCR is recording, press the **REC CHECK button** for more than 1.5 seconds and then release. The tape will rewind a little and then playback the recording just made. When the tape reaches the position where the **REC CHECK button** was pressed, the VCR starts recording again.

page 24 for **TAPE END** setting. **Rewinding a tape** While the tape is stopped, turn **SHUTTLE** to the left. To stop rewinding, press **STOP button.** **Playback 1.** Turn on the VCR and peripheral devices.

2. Load a pre-recorded tape. **Fast forwarding a tape** While the tape is stopped, turn **SHUTTLE** to the right. To stop fast forwarding, press **STOP button.** **Info.**  
3. Press **REC/PLAY MODE button** to select the desired playback mode. · The playback mode shown on the fluorescent display is based on using an E-180 tape for playback. · The fast forward/rewind time of a E-180 tape is approximately 2 minutes, however, the time varies by the type of a tape you use.



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Audio playback and picture quality Playback mode 3H L12H 12H L24H 24H 4.

Press PLAY button to start playback. · If noise occurs during playback, page 16. adjust the tracking, 5. Press STOP button to stop playback. Audio playback Picture Quality Not Available Available available Available available Good Less Less Vibrating vibrating Vibrating vibrating Info. · VCR automatically plays back the tape if the erase prevention tab is removed, AUTO PLAY. Note Adjusting the Clock You can adjust the VCR's clock on the front panel, even though the VCR is turned off. This function lets you to set in the order of time, month, day and year, so it is convenient for making the fine adjustment of the time. Example : Setting the day and present time to 10:38 a.m.

11th December, 2002. 1. When the VCR and peripheral devices are turned off, press MENU button for more than 3 seconds. · The hour digits of the clock on the fluorescent display starts flashing. 2.

Turn JOG to set the hour digits. When the flashing item is same as the current time, turn SHUTTLE without turning JOG. 3. Turn SHUTTLE to the right to make the 10-minute digit flash and turn JOG to adjust. · Playback mode When REC/PLAY MODE button is pressed, the playback mode is switched in the order of 3H L12H (12H) L24H (24H) 3H .

( ) can be switched during playback only. · · If you stop the playback in 12H or 24H mode, the fluorescent display indicates L12H or L24H mode. However, if you start playback again, the playback mode will return to 12H or 24H. Picture jitter or noise may occur when the tape is played back in L12H or L24H mode (even if the tape was recorded in L12H or L24H mode). When a pre-recorded tape is used for recording, the coloured noise may appear on the beginning of the playback picture. There is normal sound playback only when a tape recorded in 3H, L12H or L24H mode is played back in its respective mode. page 17-18 to find a picture you wish to view. Reference page Basic Functions 9 ENGLISH Adjusting the Clock (Cont.) 4.

Turn SHUTTLE to the right to make the 1-minute digit flash and turn JOG to adjust. To finish the clock adjustment now, press MENU button for more than 3 seconds. 5. Turn SHUTTLE to the right to make the month digits flash and turn JOG to adjust. · The Month indicator ( ) flashes. 6. Turn SHUTTLE to the right to make the day digits flash and turn JOG to adjust. · The Day indicator ( ) flashes. 7. Turn SHUTTLE to the right to make the year digits flash and turn JOG to adjust.

8. Turn SHUTTLE to the right. · The VCR's clock is set now. When adjusting the clock to the exact second Set the clock as described above, but set 1-minute digit to one or two minutes ahead of the reference time being used. After the step 7 above, when reference time reaches 00 second of the minute you have chosen, turn SHUTTLE to the right.

The VCR's clock now corresponds to the reference time to the nearest second. Info. Use of JOG dial and SHUTTLE ring for menu setting JOG dial SHUTTLE ring JOG dial · Use JOG by placing a finger in the indent and turning. · Turning JOG to the right moves the selection forward. Turning it to the left moves the selection back.

· If the selection is not flashing, turn JOG to the right to move the cursor ( ) down one position then to the left to move back to your selection. SHUTTLE ring · If you turn SHUTTLE to the right/left end and release it, SHUTTLE comes back to the centre position automatically. · Navigate to the next menu layer by turning SHUTTLE to the right. Return to the previous menu layer by turning SHUTTLE to the left. 10 Basic Functions Note A point to notice Info.

Supplementary information Recording Techniques Timer Recording Accurately preset the day and present time before timer programming. ( 12 34 5 6 page 9 or 20) <PROGRAM TO RECORD> DW START END 1 ----:---:2 ----:---:3 ----:---:4 ----:---:5 ----:---:6 ----:---:7 ----:---:8 ----:---: HR ----- 1)

Program number Up to 8 programs can be set. 2) Day of the week display see below). · Display HLD to apply HOLIDAY SET UP setting ( next page). · Display SPL to apply SPECIAL DW setting ( · Display DAY to record at the programmed time everyday.

3) Recording start-time 4) Next day indicator (·) Recording continues to the following day. 5) Recording end-time 6) Recording mode · Timer recording will not be performed when set to SKIP. Info. · Time is displayed in 24-hour format. 10. Press MENU button. · The day and present time display appears on screen. 11. Press TIMER REC button. · The VCR is turned off and the Timer Recording indicator ( ) illuminates on the fluorescent display.

When TIMER REC button is pressed during the programmed period, the VCR starts recording immediately. When the Timer Recording indicator ( ) starts flashing: a) A tape is not inserted. b) A tape without erase prevention tab is inserted. c) Day and present time has not been set. d) Timer program has not been set.

e) Menu item has been set (flashing). Remedy 1. Press TIMER REC button to turn off the Timer Recording indicator ( ). 2. a) Insert a tape.

b) Insert a tape with erase prevention tab intact. c) Set the day and present time. ( page 9 or 20) d) Confirm the program. e) Turn SHUTTLE to the right to stop flashing. 3. Press TIMER REC button to turn on the Timer Recording indicator. Info. Info. Example : Setting the program number 2 to the L12H mode timer recording from 12:00 to 15:00 every Tuesday. 1.

Press MENU button. · <MAIN MENU> appears. <MAIN MENU> DISPLAY TIMER PROGRAM RECORDING SET UP REAR TERMINAL MAINTENANCE CLOCK/FIRST TIME SET UP <TIMER PROGRAM> PROGRAM TO RECORD HOLIDAY SET UP SPECIAL DW MON-SAT 2. Turn JOG to select TIMER PROGRAM and turn SHUTTLE to the right. · <TIMER PROGRAM> menu appears. 3. When the cursor ( ) is next to PROGRAM TO RECORD, turn SHUTTLE to the right. · <PROGRAM TO RECORD> menu appears. <PROGRAM TO RECORD> DW START END 1 DAY 08:00 20:00 2 ----:---:3 ----:---: HR L24 ---- 4. Turn JOG to select the program number and turn SHUTTLE to the right to select.

<PROGRAM TO RECORD> DW START END 1 DAY 08:00 20:00 2 ----:---:3 ----:---: HR L24 ---- 5. In the DW column, turn JOG to select the Day of the Week. Turn SHUTTLE to the right to select. 6. In the START column, turn JOG to select the hour digits of the start time.

Turn SHUTTLE to the right when done. Set the 10-minutes digit and 1minute digit in a similar fashion. 7. In the END column, turn JOG to select the hour digits of the end time. Turn SHUTTLE to the right when done.

Set the 10-minute digit and 1minute digit in a similar fashion. 8. In the HR column, turn JOG to select the RECORDING mode. <PROGRAM TO RECORD> DW START END 1 DAY 08:00 20:00 2 TUE --:---:3 ----:---: HR L24 ---- <PROGRAM TO RECORD> DW START END 1 DAY 08:00 20:00 2 TUE 12:00 --:---:3 ----:---: HR L24 ---- · To erase a program: Select the program number you wish to erase, turn SHUTTLE to the right (DW column flashes) and then turn SHUTTLE to the left.



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<PROGRAM TO RECORD> DW START END 1 DAY 08:00 20:00 2 TUE 12:00 15:00 3 ----:---:-- HR L24 ----- Holiday set up Up to 20 days per year can be set for days for when the timer recording will be performed, or if HR in PROGRAM TO RECORD menu is set to SKIP, the timer recording will not be performed during the programmed period. 1. Display <TIMER PROGRAM> menu. 2. Turn JOG to select HOLIDAY SET UP <HOLIDAY SET UP> 01/01 15/01 11/02 22/03 29/04 03/05 04/05 05/05 and turn SHUTTLE to the right. 20/07 15/09 23/09 10/10 03/11 23/11 23/12 - - / - <HOLIDAY SET UP> menu --/-- --/-- --/-- --/-- DAY / MONTH appears.

3. Turn JOG to move the cursor ( ) and turn SHUTTLE to the right. · Each time JOG is turned to the right, the cursor moves towards right-forward direction. 4. Turn JOG to select the day you want, and turn SHUTTLE to the right. <PROGRAM TO RECORD> DW START END 1 DAY 08:00 20:00 2 TUE 12:00 15:00 3 ----:---:-- HR L24 L12 --- 9. Turn SHUTTLE to the right when done. (Cursor flashing will stop.) · If the program has not been set completely, the DW column will continue to flash. Repeat steps 4 to 9 to set 2 or more programs at once.

<PROGRAM TO RECORD> DW START END 1 DAY 08:00 20:00 2 TUE 12:00 15:00 3 ----:---:-- HR L24 L12 --- Reference page Advanced Functions 11 ENGLISH Recording Techniques (Cont.) 5. Turn JOG to select the month you want, and turn SHUTTLE to the right. Repeat steps 3 to 5 to set 2 or more days at once. 6.

Press MENU button. · Info. 6. Turn JOG to set the alarm recording duration you want and turn SHUTTLE to the right. When set to MAN 1, alarm recording continues until RST IN terminal is grounded.

· When set to MAN 2, alarm recording continues while ALM IN terminal is grounded. 7. Press MENU button. · Info. <RECORDING SET UP> ALARM REC MODE ALARM REC DURATION EMERGENCY REC CLOG DETECT L24H 10M OFF ON · The day and present time display appears on screen. · To erase the pre-set month and day, turn SHUTTLE to the left while the day item is flashing. The day and present time display appears on screen. Special day of the week Set the recording period by specifying the start and end day of the week for timer recording. 1. Display <TIMER PROGRAM> menu.

2. Turn JOG to select SPECIAL DW and turn SHUTTLE to the right. 3. Turn JOG to set the start and end day of the week, and turn SHUTTLE to the right. 4. Press MENU button. · · · <TIMER PROGRAM> PROGRAM TO RECORD HOLIDAY SET UP SPECIAL DW MON-SAT · · · The day and present time display appears on screen. Note · Start day of the week and end day of the week cannot be identical. The index signal is automatically recorded when an alarm recording begins. (The Index indicator ( ) flashes on the fluorescent display).

Even if an alarm recording is proceeding, the new alarm recording starts when the next alarm signal is input. (While an index signal is being recorded and then the next signal is input, the second signal may not be detected during skip or index search.) An alarm recording continues till its end during timer recording, even if the timer recording end-time reaches. An alarm recording will be cancelled if the tape reaches its end. If the interval between two alarm recording start-times is too short, the skip or index search may not function correctly.

( for the minimum interval between two alarm recording start-times, go to page 17) When the recording period of 2 or more programs are overlapped The VCR always gives priority to the higher-numbered program. Emergency Recording The VCR automatically starts an alarm recording when an alarm signal is input even if the VCR is in stop mode, turned off or in stand-by for timer recording. After an emergency recording, the VCR automatically returns to its original state. Providing EMERGENCY REC is ON, the Emergency Recording indicator ( ) illuminates on the fluorescent display. 1.

After step 6 of Alarm Recording, turn JOG to select EMERGENCY REC and turn SHUTTLE to the right. 2. Turn JOG to select ON and turn SHUTTLE to the right. <RECORDING SET UP> ALARM REC MODE ALARM REC DURATION EMERGENCY REC CLOG DETECT L24H 10M ON ON Alarm Recording If an alarm occurs, the VCR switches to alarm recording. Alarm signal input Example) When ALARM REC MODE is set to L24H and ALARM REC DURATION is 10 min. Recording L24H Recording Alarm Recording 10 min Display during alarm recording · During the alarm recording, the alarm recording counter will automatically be displayed on screen if DISPLAY MODE page 23) is set to 1, 2 or 3. ( ) · The Alarm Recording indicator ( on the fluorescent display flashes during alarm recording and stays on when the alarm recording is finished. · The alarm recording counter shows up to 9999 alarm recordings, then it is reset to 0000 and continues counting. · When initialising the alarm recording list, the alarm recording counter will also be reset. Alarm recording counter page 19 for alarm recording connection 1.

Press MENU button. · <MAIN MENU> appears. <MAIN MENU> DISPLAY TIMER PROGRAM RECORDING SET UP REAR TERMINAL MAINTENANCE CLOCK/FIRST TIME SET UP <RECORDING SET UP> ALARM REC MODE ALARM REC DURATION EMERGENCY REC CLOG DETECT 01-01-01 09:30:00 A0001 2. Turn JOG to select RECORDING SET UP and turn SHUTTLE to the right. · <RECORDING SET UP> menu appears. 3. When the cursor ( ) is next to ALARM REC MODE, turn SHUTTLE to the right. 3H 1M OFF ON <RECORDING SET UP> ALARM REC MODE ALARM REC DURATION EMERGENCY REC CLOG DETECT 3H 1M OFF ON 4. Turn JOG to set the alarm recording mode you want and turn SHUTTLE to the right. 5. Turn JOG to select ALARM REC DURATION and turn SHUTTLE to the right. <RECORDING SET UP> ALARM REC MODE ALARM REC DURATION EMERGENCY REC CLOG DETECT L24H 1M OFF ON <RECORDING SET UP> ALARM REC MODE ALARM REC DURATION EMERGENCY REC CLOG DETECT L24H 1M OFF ON 12 Advanced Functions Note A point to notice Info. Supplementary information Series Recording 1 Series recording is possible if two or more of these units are connected. When the first VCR's tape reaches its end or an error occurs on VCR, the second VCR automatically begins recording. 1.

Press MENU button. · <MAIN MENU> appears. <MAIN MENU> DISPLAY TIMER PROGRAM RECORDING SET UP REAR TERMINAL MAINTENANCE Remote Recording This function permits you to control the start/end of recording from the remote place. The VCR starts recording when the REC IN terminal is grounded. ( page 20 for remote recording connection.

) 1. Display <REAR TERMINAL> menu. 2. Set REC IN to REC-START/STOP. 3. Press MENU button. · The day and present time display appears on screen. · Note An index signal will not be recorded during remote recording.



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Series or timer recording function cannot be used with remote recording at the same time. <REAR TERMINAL> CALL OUT WRNG-TAPE END CLOCK OUT REC- 1 MODE OUT REC REC IN REC-START/STOP 2.

Turn JOG to select REAR TERMINAL and turn SHUTTLE to the right. · <REAR TERMINAL> menu appears. Step 3 and 4 on 1st VCR only: 3. When the cursor ( ) is next to CALL OUT, turn SHUTTLE to the right. 4. Turn JOG to select WRNG-TAPE END and turn SHUTTLE to the right. Step 5 and 6 on 2nd VCR only: 5. Turn JOG to select REC IN and turn SHUTTLE to the right. 6. Turn JOG to select SERIES and turn SHUTTLE to the right.

7. Press MENU button. · <REAR TERMINAL> CALL OUT WRNG CLOCK OUT REC- 1 MODE OUT REC REC IN REC-START/STOP <REAR TERMINAL> CALL OUT WRNG CLOCK OUT REC- 1 MODE OUT REC REC IN REC-START/STOP Repeat Recording With this function, when the tape reaches its end during recording, the VCR rewinds the tape and starts recording again. 1. Press MENU button.

· <MAIN MENU> appears. <MAIN MENU> DISPLAY TIMER PROGRAM RECORDING SET UP REAR TERMINAL MAINTENANCE CLOCK/FIRST TIME SET UP <FIRST TIME SET UP> TIME DATE ADJUST TAPE END STOP QUASI V-SYNC ON VIDEO MODE COLOUR TAPE LENGTH E-180 BUZZER WRNG <REAR TERMINAL> CALL OUT WRNG-TAPE END CLOCK OUT REC- 1 MODE OUT REC REC IN REC-START/STOP <REAR TERMINAL> CALL OUT WRNG CLOCK OUT REC- 1 MODE OUT REC REC IN REC-START/STOP <REAR TERMINAL> CALL OUT CLOCK OUT MODE OUT REC IN 2. @@ · <FIRST TIME SET UP> menu appears. WRNG REC- 1 REC SERIES The day and present time display appears on screen. 3.

Turn JOG to select TAPE END and turn SHUTTLE to the right. <FIRST TIME SET UP> TIME DATE ADJUST TAPE END STOP QUASI V-SYNC ON VIDEO MODE COLOUR TAPE LENGTH E-180 BUZZER WRNG <FIRST TIME SET UP> TIME DATE ADJUST TAPE END REPEAT QUASI V-SYNC ON VIDEO MODE COLOUR TAPE LENGTH E-180 BUZZER WRNG Series Recording 2 Series Recording 2 provides a function: when the first VCR's tape reaches its end, the second VCR automatically begins recording. @@@@ Repeat step 1 to 6 of Series Recording 1. Steps 3 to 6 must be set to both 1st and 2nd VCRs. 2. Turn SHUTTLE to the left. @@@@ · Repeat indicator ( ) illuminates on the fluorescent display. Refer to the table below for REPEAT and ALARM-PROT. 5. Press MENU button.

@@@@ · <FIRST TIME SET UP> menu appears. 4. Turn JOG to select TAPE END and turn SHUTTLE to the right. 5. @@@@@@ Press MENU button. · The day and present time display appears on screen. @@@@@@ 2. Turn SHUTTLE to the left to clear the list. To exit the menu without clearing the list, press MENU button. · <MAINTENANCE> menu appears.

3. Press MENU button. @@@@ To view the list, please follow the steps listed below. 1. Press MENU button.

· <MAIN MENU> appears. 2. Turn JOG to select MAINTENANCE and turn SHUTTLE to the right. · <MAINTENANCE> menu appears. 3. Turn JOG to select ALARM LIST and turn SHUTTLE to the right. · <ALARM LIST> appears. 4. Press MENU button. · The day and present time appears on screen. @@@@@@ · Up to 8 alarm recording start times will be displayed. @@@@ To view the list, please follow the steps listed below. 1. Press MENU button. · <MAIN MENU> appears.

2. Turn JOG to select MAINTENANCE and turn SHUTTLE to the right. <MAINTENANCE> menu appears. 3. Turn JOG to select POWER LOSS LIST and turn SHUTTLE to the right. · <POWER LOSS LIST> appears. 4. Press MENU button. @@ 2. Turn SHUTTLE to the left to clear the list.

· <MAINTENANCE> menu appears. 3. Press MENU button. @@ indicates the total times the VCR has been used for recording or playback. <POWER LOSS LIST> 01 31-01-'01 00:00 02 03 The day and present time appears on screen.

· Up to 3 power failure start times will be displayed. If more than 3 failures have occurred, the first start time and the last 2 start times will be displayed on the list. 1. Press MENU button. · <MAIN MENU> appears.

2. Turn JOG to select MAINTENANCE and turn SHUTTLE to the right. · <REPEAT REC TIMES> and <ELAPSED TIME> are shown at the bottom of the <MAINTENANCE> menu. 3. Press MENU button. · The day and present time display appears on screen. Note A point to notice Info. <MAINTENANCE> POWER LOSS LIST ALARM LIST ALL MENU INITIALISE POWER LOSS LIST CLEAR ALARM LIST CLEAR <REPEAT REC TIMES> <ELAPSED TIME> 0 0H 14 Advanced Functions Supplementary information Note · <REPEAT REC TIMES> is: counted when the tape ends during recording (except when TAPE END of FIRST TIME SET UP menu is set to STOP) memorized even if the VCR is turned off reset when a tape is inserted shown up to 200 times. OVER is shown if exceeds 200 times. <ELAPSED TIME> is shown up to 89,999 hours.

Lock function Each time the LOCK button is pressed, the Lock/Lock All indicator illuminates on the fluorescent display in the order of (No display) ... All or some of the buttons on the front panel of the VCR are locked, and the VCR is kept in the current condition. To release the lock, press LOCK button until nothing is displayed on the fluorescent display. · All buttons except REC button and EJECT button are locked. · All buttons are locked. (No display): No buttons are locked. Reference page Advanced Functions 15 ENGLISH Special Effects Playback The following convenient functions are available. Audio output is muted during special effects playback.

Frame or field playback 1. To forward frames or fields one by one, turn JOG during still picture. · Turn to the right to forward. · Turn to the left to reverse. To forward frames or fields continuously, keep turning JOG during still picture.

· Keep turning to the right to forward frames (fields) continuously. · Keep turning to the left to reverse frames (fields) continuously. To stop frame or field playback, release JOG. · The playback picture stays at still. Note Still picture 1.

Press PAUSE button during playback. · Press PAUSE button again to resume the playback. Shuttle ring By turning the SHUTTLE ring during still picture, you can obtain a variety of playback as shown below. 1 2 3 4 5 6 7 8 9 10 11 Reverse high speed search Reverse speed search Reverse fast playback (x3) Reverse playback Reverse slow Still Slow playback Normal playback Fast playback (x2) Forward speed search Forward high speed search 5 4 3 3 1 7 9 1/30 1/15 1/7 6 7 1/30 8 1/15 9 1/7 1 2 7 10 9 · 2 1 11 A few noise bars or vertical movement may appear during frame or field playback. Noise bars may appear on the picture while switching between forward and reverse frame or field playback. Adjustment during Playback Tracking adjustment If noise appears in the picture during playback, reverse/forward slow playback, fast playback, reverse playback or frame/field playback, you can reduce or eliminate it by adjusting the tracking.



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How to adjust during playback 1. Press TRACKING button (+) or (-) to achieve the best picture. If noise appears 1. Turn SHUTTLE to the right or left during still picture.

· The playback speed varies by the angle of SHUTTLE ring. · When SHUTTLE ring is released, it comes back to the centre position and the playback picture stays at still. Shuttle hold When the SHUTTLE ring is released, the playback speed can be fixed to one selected. 1. Turn SHUTTLE to the right or left to obtain a desired playback speed, then press PAUSE button. 2. Release SHUTTLE. Cancelling the shuttle hold playback 1. Press PAUSE button once to go back to the still picture and press once again to return to the playback. Direct shuttle ring By turning the SHUTTLE ring during playback, you can obtain some of special effects playback as shown below.

1. During still picture, turn SHUTTLE to obtain the respective playback mode. If noise appears in frame or field playback, set to slow playback. 2. While turning SHUTTLE, press PAUSE button.

· The playback picture is fixed at the selected speed. 3. Release SHUTTLE. 4. Press TRACKING button (+) or (-) to achieve the best picture.

Initialising the tracking The tracking will be set to its initial setting by pressing both TRACKING buttons (+) and (-) together during playback. Note 3 2 7 3 4 2 5 6 7 9 1 9 7 1 2 3 4 5 6 7 Reverse high speed search Reverse speed search Reverse fast playback (x3) Normal playback Fast playback (x2) Forward speed search Forward high speed search . . . . 16 Advanced Functions Note A point to notice How to adjust during reverse/forward slow playback, fast playback, reverse playback, frame or field playback Adjust the tracking at each playback mode or the type of playback (fast playback, reverse playback etc.), since the method of tracking adjustment varies. Although the tracking is adjusted during reverse playback or reverse slow playback, the noise may remain on screen.

When a picture recorded in 3H mode is played back in L12H or L24H mode, noise may appear on screen after the adjustment. The noise bars will move continuously when a TRACKING button is depressed. Info. Supplementary information Picture quality adjustment This control allows you to adjust the playback picture so that the outline is sharper or softer. 1. During playback, turn PICTURE control to the right or left.

· Turning to the right makes the picture sharper. · Turning to the left makes the picture softer. SOFT SHARP · Note When the counter on the fluorescent display indicates "00000", COUNTER MEMORY STOP on the SEARCH FUNCTION menu cannot be selected. Skip search During fast forwarding or rewinding, the VCR plays back a tape (at 3H mode) for about 4 seconds where an index signal is recorded. This process is repeated until the end or beginning of the tape is reached. Present position Index Index ALARM RECORDING Fast forward Approx. 4 sec. playback Vertical adjustment (picture vibration at the top and bottom) Fast forward ALARM RECORDING Fast forward The picture vibration during still picture, fast playback or playback at L12H, 12H, L24H or 24H mode can be reduced or eliminated by the following steps. How to adjust 1. Press PAUSE button during playback.

2 Press VERTICAL ADJUST button (+) or (-) to reduce or eliminate the picture vibration. Approx. 4 sec. playback 1. Press SEARCH button until SKIP SEARCH is highlighted.

· The Skip Search indicator ( ) illuminates on the fluorescent display. ) <SEARCH FUNCTION> COUNTER MEMORY STOP SKIP SEARCH INDEX SEARCH TIME DATE SEARCH Turn the SHUTTLE RING or to execute Press STOP to exit. 2. Turn SHUTTLE to the right or left. When the picture is vibrating · · Initialising the vertical adjustment The vertical adjustment will be reset to its initial setting by pressing both VERTICAL ADJUST buttons (+) and (-) together during still picture or playback at L12H or L24H mode.

Note Turning to the right proceeds the search in the forward direction. Turning to the left proceeds the search in the reverse direction. To quit while searching, press STOP button. To exit the <SEARCH FUNCTION> menu without searching, press STOP button. 3. When you find a picture you wish to view, press PLAY button. Note · · Horizontal vibration cannot be corrected with VERTICAL ADJUST buttons. VERTICAL ADJUST buttons will not work when QUASI VSYNC of FIRST TIME SET UP menu is set to OFF. · · The index signal may be difficult to locate in some recording conditions. Audio output is muted during the skip search.

Info. Searching Techniques The various search functions help you to find pictures you wish to view. Skip search or index search may not function if the interval between two alarm recording start-times is too short. The table below indicates the minimum interval between two alarm recording start-times for the skip or index search to work correctly. Alarm recording mode 3H L12H L24H Minimum interval between two alarm recording start-times approx. 15 sec. approx. 2 min. approx. 2 min.

Counter memory stop Rewinds a tape until the counter on the fluorescent display reaches "00000" and stops. 1. Press SEARCH button once. · <SEARCH FUNCTION> menu appears and COUNTER MEMORY STOP is highlighted. · The Counter Memory Stop indicator ( ) illuminates on the fluorescent display. <SEARCH FUNCTION> COUNTER MEMORY STOP SKIP SEARCH INDEX SEARCH TIME DATE SEARCH Turn the SHUTTLE RING to execute. Press STOP to exit. 2. Turn SHUTTLE to the right. · The VCR starts rewinding the tape.

To quit while rewinding, press STOP button. To exit the <SEARCH FUNCTION> menu without rewinding, press STOP button. Reference page Advanced Functions 17 ENGLISH Searching Techniques (Cont.) Index search During fast forwarding or rewinding, the VCR will search for an index signal you have selected. When the index signal is found, the VCR will play back in still picture. 1. Press SEARCH button until INDEX SEARCH is highlighted. · The Index Search indicator ( ) illuminates on the fluorescent display. 2. Turn JOG to select an index number (between 1 and 255) you wish to find.

To exit the <SEARCH FUNCTION> menu without searching, press STOP button. 3. Turn SHUTTLE to the right or left to start searching. · Turning SHUTTLE to the right performs the search in the forward direction. · Turning SHUTTLE to the left performs the search in the reverse direction. · The index number shown on the fluorescent display will decrease one by one as each index signal goes by. To quit while searching, press STOP button. · Note The index signal may be difficult to locate in some recording conditions. Info. <SEARCH FUNCTION> COUNTER MEMORY STOP SKIP SEARCH INDEX SEARCH TIME DATE SEARCH Use JOG to adjust, turn the SHUTTLE RING or to execute.



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Press STOP to exit. 4. Set 10-minute digit and 1-minute digit of TIME, DATE and DIRECTION in a similar fashion. · Searches in the forward direction of the tape when DIRECTION is set to FORWARD. Searches in the reverse direction of the tape when DIRECTION is set to REVERSE.

<TIME DATE SEARCH> TIME 03:25 DATE 24 DIRECTION FORWARD Use JOG to adjust, and ENTER to start. · 1 5. Turn SHUTTLE to the right to start searching. · When the recorded picture is found, it is shown at still picture. To quit while searching, press STOP button.

Note An index mark is written on a tape at each hour (1:00, 2:00 and so on) during recording. The time date search cannot be resumed if the index mark of the hour (set in step 3) is not recorded on a tape. Example: When the VCR recorded from 8:15 to 17:30 on a tape, only pictures recorded between 9:00 and 17:30 can be found using the time date search. · The time date search may not function correctly, if you use a tape with a poor recording quality or with alarm recordings recorded at several recording modes. · The time date search will not function when using a tape recorded with other VCRs or a tape recorded without the current day and time. · Info. · · · How to count index number Index number is the count from the present position. The index number of one alarm recording before the present position is "-1". One after is "+1". Maximum count is  $\pm 255$  alarm recordings.

Present position Reverse direction Fast forward direction When the desired part of the tape is not found in the selected direction, the VCR automatically searches in the opposite direction. -255 -2 -1 +1 +2 +255 Alarm Recording Time date search You can easily find a picture recorded at specific date and time. 1. Press SEARCH button until TIME DATE SEARCH is highlighted. · The Time Date Search indicator ( ) illuminates on the fluorescent display during search. 2. Turn SHUTTLE to the right. · <TIME DATE SEARCH> menu appears. 3. Turn JOG to set hour digits of TIME you wish to find and turn SHUTTLE to the right.

To exit the <TIME DATE SEARCH> menu without searching, turn SHUTTLE to the left several times. <SEARCH FUNCTION> COUNTER MEMORY STOP SKIP SEARCH INDEX SEARCH TIME DATE SEARCH Turn the SHUTTLE RING to go the search menu. Press STOP to exit. <TIME DATE SEARCH> TIME 00:00 DATE 13 DIRECTION REVERSE Use JOG to adjust, and ENTER. 18 Advanced Functions Note A point to notice Info.

Supplementary information Connections for Various Functions Connecting with CCTV camera, monitor and sensor SENSOR VIDEO OUT CCTV CAMERA ALM IN GND VIDEO IN ALM RST REC GND ALM MODE CLK CALL IN OUT REMOTE IN OUT AUDIO IN OUT VIDEO RESET MICROPHONE AUDIO IN AUDIO OUT VIDEO OUT VIDEO IN AUDIO IN MICROPHONE AMPLIFIER MONITOR Note Monitor to be connected Connecting with a CCTV monitor (for surveillance) is recommended. Connecting with some monitors may cause picture vibration and/or picture distortion at the top or bottom of the image at still picture or normal playback. A television for domestic use may easily cause picture vibration and distortion. · CCTV camera to be connected Do not connect 'Colour' and 'Black & White' cameras together. · Alarm Recording Connection The alarm can be confirmed from a distance by connecting the ALM OUT terminal with an existing alarm system panel or other page 12 for the menu setting) peripherals such as a buzzer.

Connect the VCR and other peripherals as shown below. ( Alarm reset switch External alarm lamp and buzzer ALM RST REC GND ALM MODE CLK CALL IN OUT Alarm set switch Reference page Installation 19 ENGLISH Connections for Various Functions (Cont.) Series Recording Connection Connect VCRs to be used as shown below. ( page 13 for the menu setting) \*1 ALM RST REC GND ALM MODE CLK CALL IN OUT ALM RST REC GND ALM MODE CLK CALL IN OUT 1st VCR 2nd VCR \*1 : This connection is necessary in case of Series Recording 2. Remote Recording Connection Connect the VCR with a remote switch as shown below. ( page 13 for the menu setting) ALM RST REC GND ALM MODE CLK CALL IN OUT Remote switch Connection for External Time Clock Adjustment Connect VCRs as shown below. ( Switch page 21 for the menu setting) \*1 ALM RST REC GND ALM MODE CLK CALL IN OUT ALM RST REC GND ALM MODE CLK CALL IN OUT 1st VCR 2nd VCR \*1 : When connecting the MODE OUT terminal of the first VCR with the RST IN terminal of the second VCR, the on-screen clock of the second VCR can be adjusted to that of the first VCR. Setting the Clock Accurately set the day and present time before timer programming. Alarm Recording Day Year Minute Counter Month Hour Second 20 · · · '02 indicates year 2002. The clock is shown in 24-hour format.

Alarm recording counter is shown during alarm recording only. 09-07-'02 20:25:00 A0001 Installation Note A point to notice Info. Supplementary information Example : Setting the day and present time to 8:25 p.m., 9 July, 2002. 1. Press MENU button. · <MAIN MENU> appears. <MAIN MENU> DISPLAY TIMER PROGRAM RECORDING SET UP REAR TERMINAL MAINTENANCE CLOCK/FIRST TIME SET UP <FIRST TIME SET UP> TIME DATE ADJUST TAPE END STOP QUASI V-SYNC ON VIDEO MODE COLOUR TAPE LENGTH E-180 Setting the current time to exact second Set the clock as described above, but set minute digits to one or two minutes ahead of the reference time being used. When the reference time reaches 00 seconds of the minute you have set, turn SHUTTLE to the right.

The VCR's clock now corresponds to the reference time to the nearest second. 2. @@ · <FIRST TIME SET UP> menu appears. 3. Turn JOG to select TIME DATE ADJUST and turn SHUTTLE to the right.

· <TIME DATE ADJUST> menu appears. External time clock adjustment The VCR's clock can be set to the nearest hour by connecting with an external clock. When 2 or more VCRs are connected together, the clock can be set to the 1st VCR's clock simultaneously. Make the following settings to all VCRs you wish to set the clock. ( previous page for the connection) 1.

Press MENU button. · <MAIN MENU> appears. 2. Set ALARM REC DURATION of <RECORDING SET UP> menu to other than MANI. <RECORDING SET UP> ALARM REC MODE ALARM REC DURATION EMERGENCY REC CLOG DETECT 4. Turn JOG to set DAYLIGHT SAVINGS and turn SHUTTLE to the right. · When set to ON, the clock moves forward one hour. · When set to AUTO, the clock moves forward one hour from the last Sunday of March (at 1 a.m.) to the last Sunday of October (at 2 a.

m.). · When set to ON or AUTO and the clock is put forward one hour, the Daylight Saving Time symbol ( ) is shown next to the hour digit of TIME on screen and the Daylight Saving Time indicator ( ) illuminates on the fluorescent display.



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Note When the DAYLIGHT SAVINGS is set to AUTO, the programmed recordings starting or finishing in the daylight saving time changeover period may not be recorded correctly. · The daylight saving time may vary from the one above depending on your region or the year, in this case, set DAYLIGHT SAVINGS to ON or OFF manually. <TIME DATE ADJUST> DAYLIGHT SAVINGS OFF MONTH 01 DAY 31 YEAR 2001 TIME 00:00:00 3H 1M OFF ON 3. Set MODE OUT of <REAR TERMINAL> menu to CLOCK ADJ. 4. Press MENU button. · The day and present time display appears on screen.

<REAR TERMINAL> CALL OUT WRNG-TAPE END CLOCK OUT REC- 1 MODE OUT CLOCK ADJ REC IN SERIES · How the external time clock adjustment works When the RST IN terminal is grounded at the rear panel, the clock is automatically set to the nearest hour. Example) · When the display shows 11:29:59, the clock is adjusted to 11:00:00. · When the display shows 11:30:00, the clock is adjusted to 12:00:00. When more than 2 VCRs are connected and the clock of the 1st VCR is adjusted to the nearest hour, the additional VCRs will also be set to the nearest hour. 5.

Turn JOG to show "07" for MONTH and turn SHUTTLE to the right. <TIME DATE ADJUST> DAYLIGHT SAVINGS AUTO MONTH 01 DAY 31 YEAR 2001 TIME 00:00:00 <TIME DATE ADJUST> DAYLIGHT SAVINGS AUTO MONTH 07 DAY 09 YEAR 2002 TIME 20:25:00 6. Set DAY, YEAR, TIME (hour digits, 10-minute digit and 1-minute digit) in a similar fashion. 7. Turn SHUTTLE to the right while the 1-minute digit of TIME is flashing.

· The setting is now complete. · <FIRST TIME SET UP> menu appears. 8. Press MENU button. · The day and present time display appears on screen. Info. · · When DAYLIGHT SAVINGS is set to ON or OFF and a tape is not inserted in the VCR, DAYLIGHT SAVINGS can be switched to ON or OFF on the front panel of the VCR by pressing STOP button and EJECT button together. To move the displayed position of the day and present time on screen, press POSITION button ( ) or ( ). ( ) moves the display in a right-forward direction and ( ) in a downward direction. Reference page Installation 21 ENGLISH Setting the Menus Menu Chart <DISPLAY> DISPLAY MODE TIME DATE SIZE BLUE BACK e.

g. <MODE 2> 01-01-'01 MON 00:00:00 L24 2 SMALL OFF <PROGRAM TO RECORD> DW START END 1 DAY 12:00 15:00 2 TUE 12:00 15:00 3 WED 12:00 15:00 4 THU 12:00 15:00 5 FRI 12:00 15:00 6 HLD 12:00 15:00 7 SUN 12:00 15:00 8 SPL 20:00 22:00 HR L24 L12 3 3 L24 SKIP L24 SKIP <POWER LOSS LIST> 01 01-01-'01 00:00 02 03 <TIMER PROGRAM> PROGRAM TO RECORD HOLIDAY SET UP SPECIAL DW MON-SAT The Day and Present Time Display <HOLIDAY SET UP> 01/01 15/01 11/02 29/04 03/05 04/05 20/07 15/09 23/09 03/11 23/11 23/12 --/-- --/-- --/-- DAY / MONTH 22/03 05/05 10/10 --/--/-- <ALARM LIST> 0001 01-01-'01 0002 0003 0004 0005 0006 0007 0008 00:00 01-01-'01 16:26:48 <RECORDING SET UP> ALARM REC MODE ALARM REC DURATION EMERGENCY REC CLOG DETECT ALL MENU INITIALISE 3H 1M OFF OFF Turn the SHUTTLE RING then all MENU will be initialised. <MAIN MENU> DISPLAY TIMER PROGRAM RECORDING SET UP REAR TERMINAL MAINTENANCE CLOCK/FIRST TIME SET UP Use JOG to select, and ENTER. Press MENU to exit. <REAR TERMINAL> CALL OUT WRNG-TAPE END CLOCK OUT REC- 1 MODE OUT REC REC IN SERIES POWER LOSS LIST CLEAR Turn the SHUTTLE RING then POWER LOSS LIST will be cleared. <MAINTENANCE> POWER LOSS LIST ALARM LIST ALL MENU INITIALISE POWER LOSS LIST CLEAR ALARM LIST CLEAR <REPEAT REC TIMES> <ELAPSED TIME> 0 0H ALARM LIST CLEAR Turn the SHUTTLE RING then ALARM LIST will be cleared. <FIRST TIME SET UP> TIME DATE ADJUST TAPE END STOP QUASI V-SYNC ON VIDEO MODE COLOUR TAPE LENGTH E-180 BUZZER WRNG <TIME DATE ADJUST> DAYLIGHT SAVINGS OFF MONTH 01 DAY 01 YEAR 2001 TIME 00:00:00 Set the menus by the following steps. 1. Press MENU button. · · · <MAIN MENU> appears.

When turned to the right, the cursor moves downward. When turned to the left, the cursor moves upward. 2. Turn JOG to the left or right to select the desired item. JOG dial MENU button 3.

Turn SHUTTLE to the right. · The desired item is selected and the menu appears. 4. Turn JOG to the left or right to select item. 5.

Turn SHUTTLE to the right, then the setting item flashes. 6. Turn JOG to the left or right to change the setting. 7. Turn SHUTTLE to the right to set. 8. Press MENU button. · The day and present time display appears. SHUTTLE ring 22 Installation Note A point to notice Info. Supplementary information LANGUAGE SELECTION The menu which appears on screen offers 7 languages.

This menu appears by pressing MENU button, when the VCR is turned on for the first time after the purchase or when RESET button is pressed during use. 1.

Press MENU button. · The menu as shown to the right appears. DEUTSCH ENGLISH POLSKI MAGYAR TÜRKÇE Use JOG to select, and ENTER. DISPLAY MODE 1 Day Year Month Alarm Recording Counter\* DISPLAY MODE 2 and 3 Alarm Recording Day Year Day of the Week Counter\* Month 09-07-' 01 20:25:00 A 0001 Hour Second Minute Hour Second Minute Recording Mode \* shown when DISPLAY MODE 1, 2 or 3 is selected. Setting the size of letter for date and present time display (TIME DATE SIZE) SMALL : The size of the letters become small. LARGE : The size of the letters become large. Setting the background colour (BLUE BACK) ON : The blue coloured screen overlays on the recorded picture when the menu is displayed on the monitor. OFF : The recorded picture is overlaid with the menu display.

Note 2. Turn JOG to select the desired language. 3. Turn SHUTTLE to the right. · <MAIN MENU> in the selected language appears on screen.

4. Press MENU button to exit. · Note After first time setup and selection of the language to be used, the only way to go back and access the main menu in the seven languages is to PRESS the RESET button found on the rear panel. The RESET button can be accessed with a small pointed object. The RESET button is pressed, repeat steps 1 to 4 above.

· · When the setting is OFF and the video signal is not input, the blue coloured screen overlays on the recorded picture when the menu is displayed on the monitor. When the setting is ON and the video signal is not input, the background colour will be in blue. In this case, the warning "NO SIGNAL" flashes on screen and "noSig" flashes on the fluorescent display. MAIN MENU DISPLAY Sets the display format of the date and present time on screen. TIMER PROGRAM Sets the timer recording. <MAIN MENU> DISPLAY TIMER PROGRAM RECORDING SET UP REAR TERMINAL MAINTENANCE CLOCK/FIRST TIME SET UP Use JOG to select, and ENTER. Press MENU to exit. TIMER PROGRAM page 11, Timer Recording.



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**RECORDING SET UP** Setting the alarm recording mode (ALARM REC MODE) Sets the alarm recording time mode. When JOG is turned, the display will be switched in the order of 3H L12H L24H 3H .

.. <RECORDING SET UP> ALARM REC MODE ALARM REC DURATION EMERGENCY REC CLOG DETECT 3H 1M OFF ON RECORDING SET UP  
Sets the alarm recording mode, alarm recording duration and emergency recording, etc. REAR TERMINAL Sets the frequency division ratio of CLOCK OUT, output signal of CALL OUT terminal and MODE OUT terminal, etc. MAINTENANCE Displays the power loss list and alarm list, etc. Also, initialises all menu settings, clears the power loss list and alarm list. CLOCK/FIRST TIME SET UP Sets the present time and the operation at the tape end, etc. Setting the alarm recording duration (ALARM REC DURATION) Sets the duration of the alarm recording period. When JOG is turned, the display will be switched in the order of 1M (minute) 2M 5M 10M MAN1 MAN2 15S (second) 30S 45S 1M ..  
. Setting the emergency recording (EMERGENCY REC) ON : Starts alarm recording when the ALM IN terminal is grounded while the VCR is recording, in stop mode, turned off or in stand-by mode for timer recording. OFF : Starts alarm recording when the ALM IN terminal is grounded during recording. Setting the clog detection (CLOG DETECT) ON : The VCR automatically removes any particles that may accumulate on the heads during time-lapse recording. If it cannot be entirely removed, a warning "CLOG" flashes on the fluorescent display ( page 29).  
OFF : The VCR does not detect clogged head. DISPLAY Setting the display mode (DISPLAY MODE) 1 : Shows date and present time. 2 : Shows date, day of the week, present time and recording mode. 3 : Displays nothing. In case of alarm recording, displays same items as DISPLAY MODE 2.  
4 : No date or time display. <DISPLAY> DISPLAY MODE TIME DATE SIZE BLUE BACK e.g.<MODE 1> 1 SMALL OFF 09-07-'01 00:00:00 Reference page Installation 23 ENGLISH 09-07-'01 MON A 0001 20:25:00 3 Setting the Menus (Cont.) REAR TERMINAL Setting the operation mode of the CALL OUT terminal (CALL OUT) Sets the mode of call signal output from the CALL OUT terminal. If any abnormalities occur with the VCR during recording, the call signal is output from the CALL OUT terminal on the rear panel regardless of CALL OUT setting. <REAR TERMINAL> CALL OUT WRNG-TAPE END  
CLOCK OUT REC- 1 MODE OUT REC REC IN SERIES MAINTENANCE Displaying the power loss list (POWER LOSS LIST) page 14 Displaying the alarm list (ALARM LIST) page 14 <MAINTENANCE> POWER LOSS LIST ALARM LIST ALL MENU INITIALISE POWER LOSS LIST CLEAR ALARM LIST CLEAR <REPEAT REC TIMES> <ELAPSED TIME> 0 0H WRNG-TAPE END : The VCR outputs a call signal when the tape reaches its end or when a malfunction occurs. The VCR's function when the tape ends depends on the setting of TAPE END in FIRST TIME SET next column). UP menu ( WRNG-REMAIN : The VCR outputs a call signal when a malfunction occurs or when the tape has approximately 3 minutes (at 3H mode) left. WRNG : The VCR outputs a call signal only when a malfunction occurs.

Setting the recording mode and frequency division ratio (CLOCK OUT) Sets the recording mode and the frequency division ratio of clock pulse output from the CLOCK OUT terminal. · Setting the recording mode during the clock pulse output REC T/L REC : When recording in any mode. : When recording in time-lapse mode (L12H, L24H). Initialising all menu settings (ALL MENU INITIALISE) All menus will be initialised except timer programs. 1. Press MENU button. · <MAIN MENU> appears. 2. Turn JOG to select MAINTENANCE and turn SHUTTLE to the right. · <MAINTENANCE> menu appears.  
3. Turn JOG to select ALL MENU ALL MENU INITIALISE INITIALISE and turn SHUTTLE to Turn the SHUTTLE RING the right. then all MENU will be initialised. · <ALL MENU INITIALISE> menu appears. 4.  
Turn SHUTTLE to the left. The setting of all menus (except TIMER PROGRAM) will return to its initial setting. To exit the menu without initialising all menus, press the MENU button. 5. Press MENU button.  
· The day and present time display appears on screen. Clearing the power loss list (POWER LOSS LIST CLEAR) page 14 Clearing the alarm list (ALARM LIST CLEAR) page 14 Displaying number of tape use (REPEAT REC TIMES) page 14 Displaying the elapsed time of VCR (ELAPSED TIME) page 14 · · Setting the frequency division ratio of the clock pulse output. When JOG is turned, the display will be switched in the order of 1 2 3 4 5 10 15 20 25 30 50 60 F (field) 1 ... The numbers 1 to 60 indicate the number of frames at 3H recording mode and the number of fields at time lapse recording modes. (One frame consists of two fields.) When set to F (field), one field is selected. Setting the operation mode of the MODE OUT terminal (MODE OUT) A mode signal is output under the following circumstances. REC : During recording.

PLAY : During playback. POWER : While the VCR is turned on. TAPE IN : When a tape is inserted in the VCR. TAPE REMAIN : When the tape has approximately 3 minutes (at 3H mode) left. CLOCK ADJ : When the clock indicates "00(min.):00(s)". (The signal is output for 1 second only.) Setting the operation mode of REC IN terminal (REC IN) SERIES : Recording starts when the signal is input. REC-START/STOP : Recording continues while the signal is input. If the signal is input for a short period, the VCR may not start recording.

FIRST TIME SET UP Setting the present time, date and Daylight Saving Time settings (TIME DATE ADJUST) page 20 <FIRST TIME SET UP> TIME DATE ADJUST TAPE END STOP QUASI V-SYNC ON VIDEO MODE COLOUR TAPE LENGTH E-180 BUZZER WRNG Setting operation of VCR when the tape reaches its end during recording or playback (TAPE END) The VCR's function when the tape reaches its end during recording is as follows: STOP : The tape stops, the indication "End" appears on the fluorescent display and "TAPE END" on screen. When CALL OUT is set to WRNG-TAPE END, a call signal is output from the CALL OUT terminal. REWIND : Rewinds the tape to the beginning and stops (except during timer recording). When CALL OUT is set to WRNG-TAPE END and a tape reaches its end, a call signal is output for 2 seconds from the CALL OUT terminal. 24 Installation Note A point to notice Info. Supplementary information : Rewinds the tape to the beginning and resumes the recording. When CALL OUT is set to WRNG-TAPE END and a tape reaches its end, a call signal is output for 2 seconds from the CALL OUT terminal. ALARM-PROT (alarm protection) : If any alarm recordings are present on the tape and the tape stops, the indication "End" appears on the fluorescent display and "TAPE END" on screen. When CALL OUT is set to WRNG-TAPE END, a call signal is output from the CALL OUT terminal. If there is no alarm recording, the VCR rewinds the tape to the beginning and resumes the recording.



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