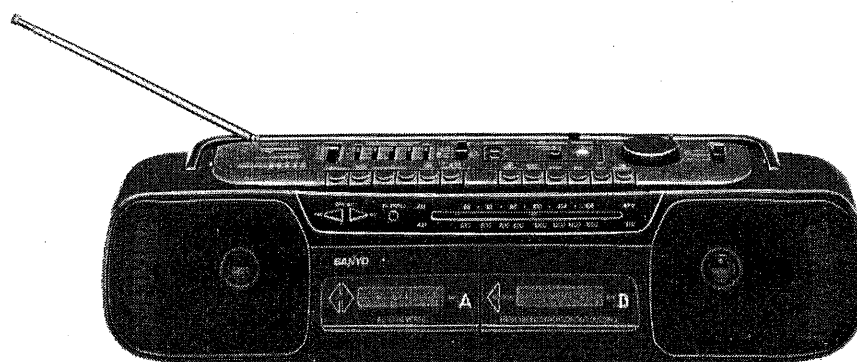


OPERATING
INSTRUCTIONS

SANYO

M W738F

FM STEREO / AM RADIO DOUBLE CASSETTE RECORDER



CONTROLS

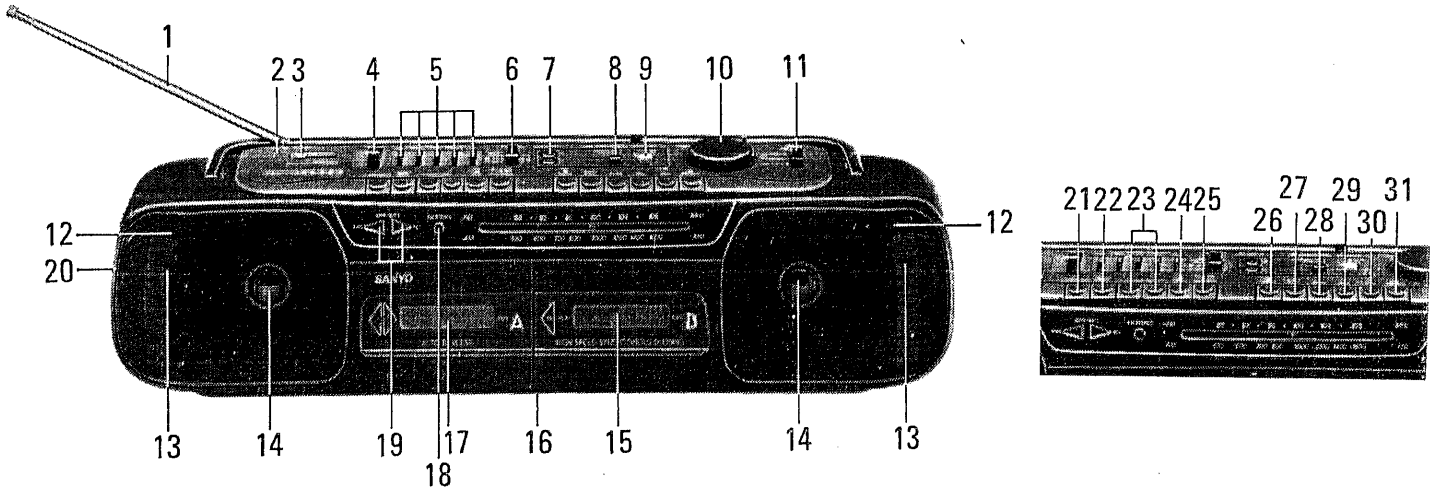


Fig.1

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| <ol style="list-style-type: none"> 1. Telescopic aerial 2. Built-in microphone (MIC) 3. Headphone socket (PHONES) 4. Volume control (VOLUME) 5. Graphic equalizer controls (5 BAND GRAPHIC EQUALIZER) 6. Function selector (FUNCTION) 7. CD/Line input sockets (CD/LINE IN) 8. Dubbing speed/Beat cancel switch (DUB SPEED/BEAT CANCEL) 9. Surround switch (SURROUND) 10. Tuning control (TUNING) 11. Band selector (BAND) 12. Surround indicator 13. Surround speaker 14. Main speaker 15. Cassette compartment lid (TAPE B) 16. Battery/Mains lead compartment lid - rear of the unit - | <ol style="list-style-type: none"> 17. Cassette compartment lid (TAPE A) 18. FM stereo indicator (FM STEREO) 19. Operation/Battery/Tape direction indicators (OPR/BATT) 20. AC/DC selector (AC/DC) - left side of the unit - 21. Tape direction button (DIRECTION) 22. Stop/Eject button (STOP/EJECT) 23. Fast forward/Rewind buttons (FFWD/REW) 24. Play button (PLAY) 25. Reverse mode button (REV MODE) 26. Pause button (PAUSE) 27. Stop/Eject button (STOP/EJECT) 28. Fast forward button (FFWD) 29. Rewind button (REW) 30. Play button (PLAY) 31. Record button (RECORD) |
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POWER SUPPLY

BATTERY POWER OPERATION

1. Set the AC/DC selector to DC.
2. Open the battery/mains lead compartment lid by pushing the latches.
3. Install 6 "D" size batteries exactly as shown on the rear panel.
4. Close the compartment lid.

CAUTION

WHEN INSTALLING BATTERIES

To prevent battery leakage, which may possibly result in bodily injury and damage to the unit or other objects, observe the following precautions:

1. All batteries must be installed with proper polarity (see diagram on the back of the unit).
2. Do not mix new with old or used batteries.
3. Only use batteries of the same type and brand.
4. Unused batteries should not be left in unit.

BATTERY CHECK

During operation with batteries, the OPR/BATT indicators show battery condition.

bright:

good condition

dim or does not light:

exhausted and must be replaced

AC POWER OPERATION

1. Set the AC/DC selector to AC.
2. Open the battery/mains lead compartment lid and pull out the mains lead.
3. Connect the mains lead to an AC 240 V wall outlet.
4. Close the compartment lid with the mains lead running through the notch in the lid.

SURROUND SYSTEM

"SURROUND" is a sound space formation method which brings about the feel of a live performance by expanding sound. To experience this exciting new dimension in sound quality, simply set the SURROUND switch to ON.

Note:

- With the SURROUND switch set to ON, the

surround indicator will flash corresponding with sound level.

- The surround effect can be activated whilst you are listening to a radio broadcast, CD, or tape in stereo.
- The surround effect cannot be recorded.

RADIO OPERATION

1. Set the FUNCTION selector to RADIO.
2. Select the required radio band with the BAND selector.
3. Tune in a desired station by turning the TUNING control.
4. Adjust the VOLUME and GRAPHIC EQUALIZER controls to the desired sound level and tone.
5. To turn the radio off, set the FUNCTION selector to OFF.

AERIAL

For AM reception, the aerial inside the unit is somewhat directional, and so reception from distant stations may sometimes be improved by rotating the unit. For FM reception, pull out the telescopic aerial and determine the direction, length and angle to give the best reception.

BAND SELECTOR (BAND)

For receiving an AM broadcast, set the selector to AM. For receiving an FM stereo broadcast, set the selector to FM STEREO. The FM STEREO indicator will light up when an FM stereo broadcast is being received. For receiving mono or weak-signal FM stereo broadcasts, set the selector to FM MONO to avoid possible interference.

OPERATION/BATTERY/TAPE DIRECTION INDICATORS (OPR/BATT)

Either of these indicators light whilst the unit is in operation and indicates the direction of tape travel (TAPE A).

GRAPHIC EQUALIZER CONTROLS (5 BAND GRAPHIC EQUALIZER)

By means of five independent frequency controls (100Hz/300Hz/1kHz/3kHz/10kHz), you can get your favourite sound shape flexibly. "Flat response" is obtained by setting the controls to the 0 position.

HEADPHONE SOCKET (PHONES)

For private listening, connect a stereo headphone (32-ohm impedance, not supplied) to this socket.

PLAYBACK (TAPE A) (TAPE B)

Note:

Do not use any endless tape with this unit.



A) PLAYING A RECORDED TAPE (TAPE A) (TAPE B)

1. Press the STOP/EJECT button and insert a recorded cassette.
2. Set the FUNCTION selector to TAPE.
3. Press the PLAY button.
 - If both PLAY buttons are pressed simultaneously, TAPE A and TAPE B will be mixed and reproduced from the speakers.
4. Adjust the VOLUME and GRAPHIC EQUALIZER controls to the desired sound level and tone.
5. Press the STOP/EJECT button to stop playback at any time. When the end of the tape has been reached, the automatic stop (or automatic reverse) will be activated.

Note:

Whilst only TAPE B is activated, the OPR/BATT indicators do not show the tape direction of TAPE B.

AUTO REVERSE PLAYBACK (TAPE A)

Since TAPE A has been provided with an Auto Reverse mechanism, it is not necessary to invert the cassette. Before starting playback, set the REV MODE switch to  or  as you desire. The tape running direction will be indicated with the OPR/BATT indicators during playback.

 :

For continuous playback

The unit will play continuously unless you press the STOP/EJECT button.

 :

For one-cycle playback (forward and reverse)


The automatic stop will be activated at the end of one-cycle operation.

- If playback has begun in the reverse mode, the automatic stop will be activated at the end of reverse operation.

MANUAL REVERSE PLAYBACK (TAPE A)

During playback, pressing the tape DIRECTION button will instantly change the side of cassette to be played. Before starting playback, determine the tape running direction by using this button.

B) PLAYBACK OF TAPE-A AND TAPE-B CONTINUOUSLY (TAPE A) (TAPE B)

1. Set the FUNCTION selector to TAPE.
2. Press the REV MODE button to .

3. Press the PLAY button (TAPE A side).
4. Press the PAUSE button (TAPE B side).
5. Press the PLAY button (TAPE B side). (Tape-B will not move.)

After the automatic stop has been activated on TAPE A, the PAUSE button will be released and TAPE B will automatically begin to play back.

When the end of the tape is reached on TAPE B, the automatic stop will be activated.

CAUTION:

While playing or recording, do not press the FFWD or REW button of the other tape mechanism, as it may result in inferior sound quality.

PAUSE (TAPE B)

Press the PAUSE button to momentarily stop tape travel during playback or recording. Re-press the button to re-start playback or recording.

FAST FORWARD AND REWIND (TAPE A side)

For fast winding or rewinding the tape, first press the PLAY button to note the tape running direction by the OPR/BATT indicators and press the STOP/EJECT button to stop playback. Then press the appropriate FFWD/REW button. Press the STOP/EJECT button when the desired location has been reached. When the end of the tape has been reached, the reels will stop. The STOP/EJECT button should then be pressed.

(TAPE B side)

For fast winding or rewinding the tape, press the FFWD or REW button. Press the STOP/EJECT button when the desired location has been reached. When the end of the tape has been reached, the automatic stop will be activated.

C) PLAYING AN EXTERNAL SOUND SOURCE THROUGH THE UNIT

1. Connect OUTPUT or TAPE REC sockets of your CD player or amplifier etc. to the CD/LINE IN sockets of the unit using PHONO plug terminated leads (not supplied).
2. Set the FUNCTION selector to CD/LINE IN.
3. Adjust the VOLUME and GRAPHIC EQUALIZER controls to the desired sound level and tone.

RECORDING (TAPE B)

For recording, use TAPE B.

This unit has an ALC circuit and no further adjustment of recording level is necessary.

A) RECORDING FROM THE BUILT-IN RADIO

1. Press the STOP/EJECT button and insert a cassette.
2. Tune in a desired radio programme as previously described in "RADIO OPERATION".
3. Press the RECORD button.
4. Since you can monitor through the speakers regardless of recording level, adjust the VOLUME and GRAPHIC EQUALIZER controls to the desired sound level and tone.
5. Press the STOP/EJECT button to stop recording at any time. When the end of the tape has been reached, the automatic stop will be activated.

BEAT CANCEL SWITCH (DUB SPEED/BEAT CANCEL)

When recording a radio programme on the tape, an irritating beat sound (high pitched tone) may sometimes be heard. In this case, simply change the switch position so that the beat sound is reduced.

B) RECORDING FROM THE BUILT-IN MICROPHONE (mono recording)

1. Set the FUNCTION selector to TAPE.
2. Press the RECORD button.
3. Speak in a normal voice at a distance of approximately 45 cm away from the unit.

Note:

To prevent feedback, monitoring is not possible.

C) RECORDING FROM AN EXTERNAL SOUND SOURCE

1. Connect an external sound source to the CD/LINE IN sockets.
2. Set the FUNCTION selector to CD/LINE IN.
3. Follow steps "3" to "5" of RECORDING FROM THE BUILT-IN RADIO section.

PREVENTION OF ACCIDENTAL ERASING (Fig. 2)

To protect valuable recordings from accidental erasing, the tape recorder and the cassette are equipped with standard safety features. To keep the recorded material, break out the tabs on the back of the cassette with a knife or screwdriver.

To protect the side A (1) from accidental erasure, break out the right side tab (2). To record on a cassette whose tabs have been broken, simply attach adhesive tape (3) over the tab opening. The unit will not operate in recording mode when a cassette tab has been removed.

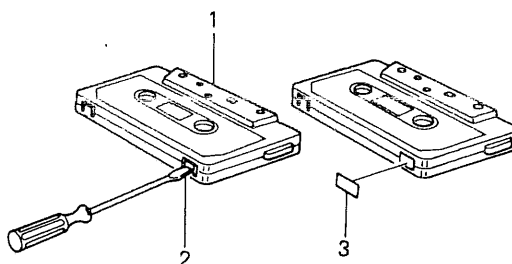


Fig.2

ERASING

1. Make sure that TAPE A cassette is removed.
2. Set the FUNCTION selector to DUB.
3. Press the RECORD button.

DUBBING OPERATION (from TAPE A to TAPE B)

Recording of radio programmes or dubbing of tapes is permissible only insofar as copyright or other rights of third parties are not thereby infringed.

DUBBING

1. Insert a recorded cassette into TAPE A and a cassette to be recorded on into TAPE B.
2. Select the desired reverse mode and tape direction with the REV MODE and tape DIRECTION buttons.
3. Rewind the tape (TAPE A side) to the beginning of the tape or a particular selection.
4. Set the FUNCTION selector to DUB.
5. Select the dubbing speed with the DUB SPEED/BEAT CANCEL switch.

HIGH:

For dubbing the whole tape at high speed (twice normal speed)

NORMAL:

For dubbing with monitoring at normal speed or for dubbing a particular selection

6. Press the PAUSE button (TAPE B side).
7. Press the RECORD button (TAPE B side).
8. To start the dubbing operation, press the PLAY button (TAPE A side).
9. To stop the dubbing, press both STOP/EJECT buttons.

AUTOMATIC STOP IN DUBBING OPERATION

- A) If TAPE A tape is longer than TAPE B:
After the automatic stop has been activated on TAPE B, TAPE A will continue to play back at normal speed.
- B) If TAPE B tape is longer than TAPE A:
After the automatic stop has activated on TAPE A, TAPE B will be in the erasing mode. The STOP/EJECT button should then be pressed.

Note:

Do not change the dubbing speed during the dubbing operation.

MAINTENANCE

To ensure the continued high performance of your unit, periodically clean the heads and pinch rollers to prevent accumulation of dust or tape oxide deposits.

1. Open both cassette compartment lids by pressing both STOP/EJECT buttons.
2. Press the PLAY button (TAPE A side). Press the RECORD button (TAPE B side) while holding the lever down as shown in Fig. 3.
3. Moisten a cotton bud (1) with head cleaner or methylated spirit and apply to the faces of heads (2, 8, and 9), rubbing gently until all traces of dirt or oxide are removed. Also clean the surfaces of the pinch rollers (3, 6 and 7) and the capstans (4, 5 and 10) (Fig. 4).

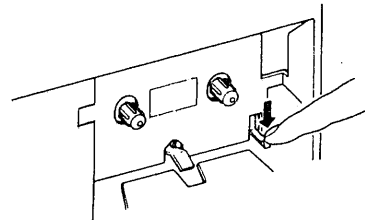


Fig.3

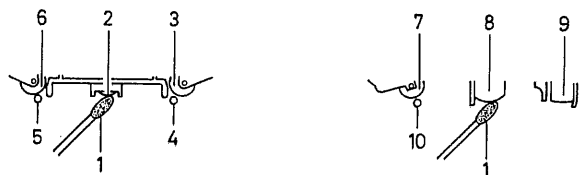


Fig.4

SPECIFICATIONS

Recording system:
AC bias, 4-track stereo
Erasing system:
Magnet erase, 2-track
Rewind and fast forward time:
(TAPE A) 2 min. 40 sec. (C-60)
(TAPE B) 1 min. 50 sec. (C-60)
Frequency range:
AM: 530-1,605 kHz
FM: 87.5-108 MHz
Terminal impedance:
CD/LINE IN: 47 kohms
PHONES: 32 ohms
Frequency response:
80 - 12,000 Hz

Output power:
3.5 W x 2 maximum
Power source:
DC: 9 V, "D" size x 6
AC: 240 V, 50 Hz
Dimensions:
Approx. 575 (W) x 131 (D) x 136 (H) mm
Weight:
Approx. 3.6 kg. including batteries
Specifications subject to change without notice.

SANYO

SANYO Electric Co., Ltd.