

Fig. 1

1. Cassette compartment lid

Power switch

Turns the unit ON and OFF.

3. Headphones socket

Provides for headphone monitoring during recording or private listening during playback. Accepts standard phone plug.

Eject button
 Press to eject the cassette.

Record button
 Press the RECORD and PLAY buttons to activate record circuit and the erase head.

Play button Press to start playback.

Rewind button
 Press to rewind the tape quickly.

Fast forward button
 Press to wind the tape forward quickly.

Stop button

Press to stop the tape travel.

Pause button

Press to momentarily stop the tape travel during recording and playback.

11. CrO₂ tape indicator lamp

12. Dolby NR indicator lamp

13. Tape select switch

Selects proper recording equalization for the type of tape being used. As switch affects circuitry in both recording and playback, it must be set to proper tape type during both operating modes.

CrO2 Chromium dioxide tape
NORMAL Standard tape
Recommended brand of tapes are . . .
CrO2 TDK, Memorex C-60
NORMAL Sanyo, BASF C-60
When the switch is set to CrO2 position the CrO2
tape indicator lamp will light.

14. Dolby NR switch

Activates the Dolby System noise-reduction circuit during recording and playback. Optimum music recording is achieved by placing the switch to ON. The Dolby NR indicator lamp will light up simultaneously.

15. Limiter switch Set this switch to ON to record without distortion caused by high signal peaks.

16. Input select switch

Provides input selection for optimum input condition, in MIC/DIN position, the unit records signals from microphone/DIN (REC/PLAY) and in LINE IN position, records LINE IN signals.

Microphone input sockets
 Separate inputs for left and right channel microphones provide for stereo live recording.

18. Record level control knobs

Separate controls provide of independent adjustment of each channel's recording level for precise adjusting and balancing of stereo signals.

19. Level index marker

After adjusting the input levels, set the index marker to the position where level control knobs have been set. This marker is useful for repeating the recording, playing back, and re recording at the same input level.

20. VU meters

Illuminated VU meters help to assure optimum recording levels and indicates relative playback levels.

 Tape counter & reset button
 Use this tape counter to find desired position more quickly.

22. Record indicator lamp

23. Line output sockets

Connect to tape monitor or auxiliary inputs of stereo recorder, amplifier or other stereo record system. Do not plug into tape head inputs.

24. DIN (REC/PLAY) socket

Connect to REC/PLAY (DIN) socket of stereo amplifier or other stereo system. Accepts DIN type plug.

25. Line in sockets

Connect the patch cords to these sockets and other ends to output of tuner, phonograph or equivalent.

26. Power cord

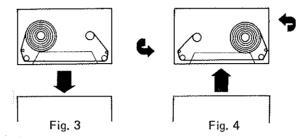
Connect attached power cord to AC wall socket.

Fig. 2

CASSETTE

Inserting and Removing the Cassette

Then the cassette compartment lid by pressing the LJECT button. Insert the cassette with the full reel to the left (visible through the window) and tape slot at the bottom (Fig. 3). The cassette fits into the unit only in the correct position. To put the cassette in place, push the cassette compartment lid at top. Now the unit is ready to operate. To use the second track, press the STOP button and then press the EJECT button and remove the cassette. Turn the cassette over and re-insert it as previously described (Fig. 4).



Counter

The 3-digit counter built into this unit permits instant location of any point on a tape. When recording at the beginning of a cassette, set the counter to "000" by pressing the reset button. As you record various relections, make a note of the counter number at the ginning of each selection. To playback a particular selection, use the F FWD button to move the tape until the counter resisters the previously noted number for that selection. If the cassette has been removed from the unit, first rewind the tape completely and reset the counter to "000".

To Avoid Accidental Erasure

Whenever a recording is made, the sound previously ecorded is erased automatically. To protect valuable recordings from accidental erasure, the unit and cassette are equipped with safety devices. To keep the recorded material permanently, break out the tabs on the back of the cassette with a knife or screw driver. To protect the TOP side of the tape from accidental erasure break out the right side tab. To record on a

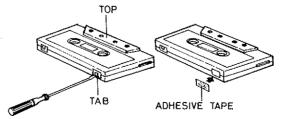


Fig. 5

cassette from which the tabs have been removed, attach adhesive tape over the tab opening (Fig. 5). The RECORD button will not lock in when cassette tabs are removed.

Track System

When a cassette is inserted with "SIDE 1" facing you, recording or playback is done on tracks 1 and 2 (Fig. 6). The tracks 4 and 3 can be used by simply turning the cassette over and inserting it with "SIDE 2" facing you.

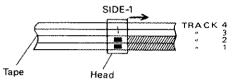


Fig. 6

The Dolby System What it is

- * Silence is an important part of music: The notes are only part of the music a composer writes. The silence between the notes is the rest of it. Real high fidelity means reproducing the silence as accurately as the sound.
- * Recorded music has always included recorded noise. Since the earliest days of music recording, listeners have had to endure background noise. It is the hiss produced by recording tape. Scientists learned that no technique can ever remove all of the noise of a sound reproducing system. However, they also have learned that noise is only detected by the ear and brain of a listener under certain conditions. The Dolby System works in a way that is based upon recent research into both electronics and hearing.
- A circuit that listens to music: The Dolby System is based on a patented circuit which is "programmed" with information about the way noise is heard by a human listener when music is played at the same time. By playing the music through the Dolby System before it is recorded, and again when the recording is heard by the listener, the noise introduced by the recording process is reduced considerably.
- * The word Dolby & Double D device are a trademark of Dolby Laboratries Inc. and this noise reduction system is manufactured under licence from Dolby Laboratries Inc.

(not supplied)

(not supplied)

Recording

- 1. Connect tape deck input and output jacks to the stereo receiver Tape Out and Line Input Sockets (Fig. 2).
- 2. Turn ON the power.
- 3. Press the EJECT button and insert the cassette into its compartment lid, then close the lid.
- 4. Set the TAPE SELECT switch for the type of tape being used.
- 5. Set the Dolby NR switch to ON or OFF.
- 6. Set the LIMITER switch to OFF.
- 7. Press the PAUSE button.
- 8. Press the RECORD and PLAY buttons simultaneously. The RECORD indicator lamp will light simultaneously.
- 9. Press the RESET button to set the counter numerals to "000".
- 10. Adjust the recording level with the record level control knobs so that the VU meter pointers deflect within "BLACK" areas (Fig. 7).

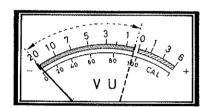


Fig. 7

- 11. Set the LIMITER switch to ON.
- 12. Re-press the PAUSE button to start recording.
- 13. To stop the recording, press the STOP button. When the end of the tape has been reached, the RECORD and PLAY buttons will be automatically released and the unit is put in the stop mode.

Fast Forward and Rewind

These buttons advance or rewind the tape rapidly, helping you to locate pre-recorded material or find the position at which you last stopped recording. When the end of the tape has been reached during fast forward or rewind mode, the reels will stop. Then the STOP button should be pressed.

Playback

- 1. Turn ON the power.
- 2. Insert the cassette into the cassette compartment lid.
- Set the TAPE SELECT switch for the type of tape being used.
- 4. Set the Dolby NR switch to ON or OFF.
- 5. Press the PLAY button.
- To stop the playback, press the STOP button.When the end of the tape has been reached, the PLAY button will be automatically released.

Erasing

The tape deck automatically erases previously recorded material on the tape cassette while it is recording. If you desire to erase the cassette without recording, set the record level control knobs to the MIN position and let the unit operate in the recording.

MAINTENANCE

To assure continued high performance from your ssette deck, periodically clean the heads and pinch oller whenever dust or reddish-brown oxide has accumulated. Failure to clean these parts will result in inferior sound quality, distortion of recording, deterioration of high frequency reproduction and inconsistent tape speed.

- Open the cassette compartment lid by pushing the EJECT button.
- 2. Remove the cassette compartment lid (part of window) as figure 8.
- Moisten a cotton applicator with cleaner and apply to the faces of both heads, rubbing gently until all traces of dirt or oxide are removed. Also clean the surfaces of the pinch roller and the capstan (Fig. 9).
- 4. Dry, clean, and polish the faces of the heads with a piece of cloth.

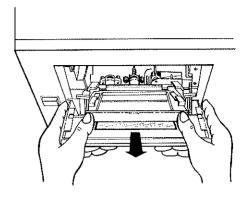
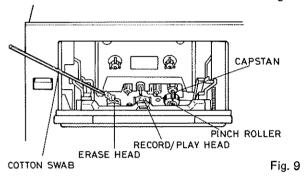


Fig. 8



SPECIFICATIONS

Signal to noise ratio

input

Output

Power source

Tape	CrO2 tape and Normal tape
ecording system	AC bias, 1/4 track stereo
erasing system	AC erasing, 1/2 track
Tape speed	1-7/8 ips. (4.75 cm/sec.)
Recording time	60 min. (C-60 cassette tape)
Rewind & Fast forward time	90 sec. (C-60 cassette tape)
Wow & Flutter	0.1% WRMS

Frequency response 30 – 16,000Hz (CrO2 tape)

30 - 13,000Hz (Normal tape) 58dB (Dolby switch ON)

50dB (Dolby switch OFF)

MIC: 10k ohms (0.3mV)
REC/PLAY: 10k ohms (1mV)
LINE IN: 60k ohms (70mV)

REC/PLAY: 3k ohms (0.7V) LINE OUT: 3k ohms (0.7V)

HEADPHONES: 8 ohm to 10k ohms (30mV)

AC: 240V, 50Hz

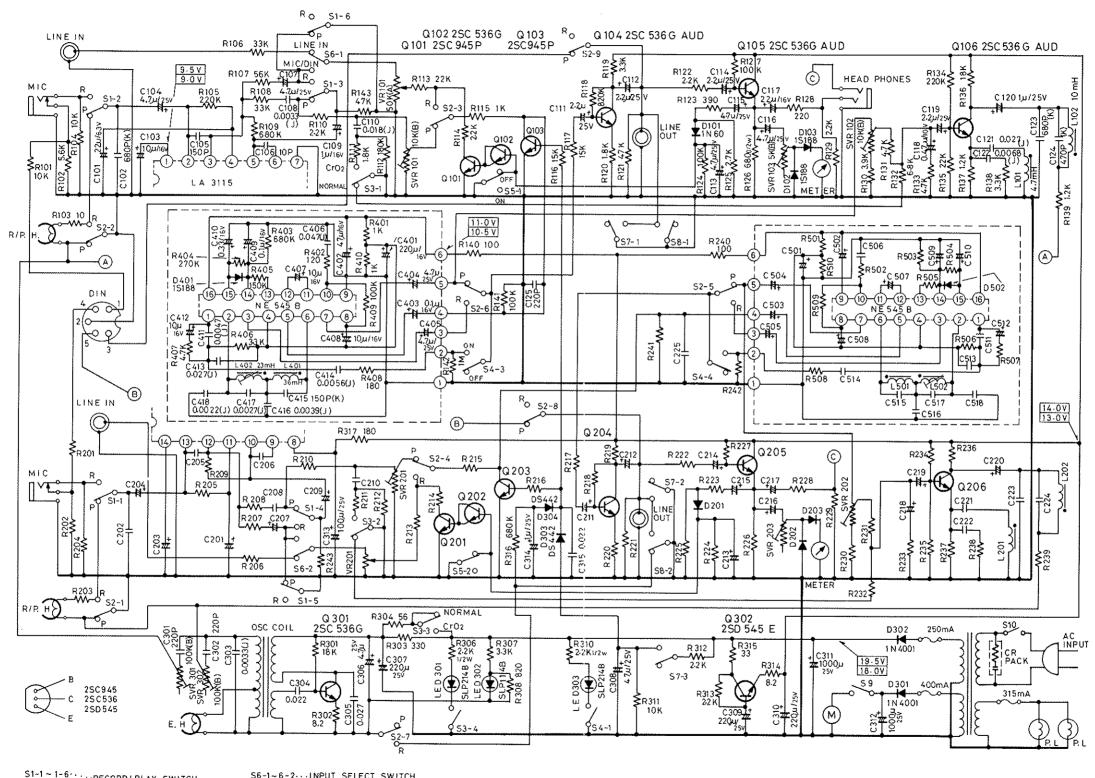
Dimensions 15-9/16" (W) x 10-1/2" (D) x 6-3/16" (H)

(395 x 265 x 157 mm)

Weight Approx. 11 lbs. 11 ozs. (5.3kg)

^{*} Specifications subject to change without notice.

MODEL RD 5150 SCHEMATIC DIAGRAM



\$1~1~1-6. :: RECORD/PLAY SWITCH

S3-1 ~ 3-4 · · · · TAPE SELECT SWITCH S4-1 ~ 4-3 · · · · · DOLBY NR SWITCH S5-1 ~ 5-2....LIMITER SWITCH

S6-1~6-2...INPUT SELECT SWITCH S7-1~7-3 ... PLAY SWITCH

S8-1-8-2...STOP SWITCH 59 · · · · · · · MECH- SWITCH S10 · · · · · · POWER SWITCH