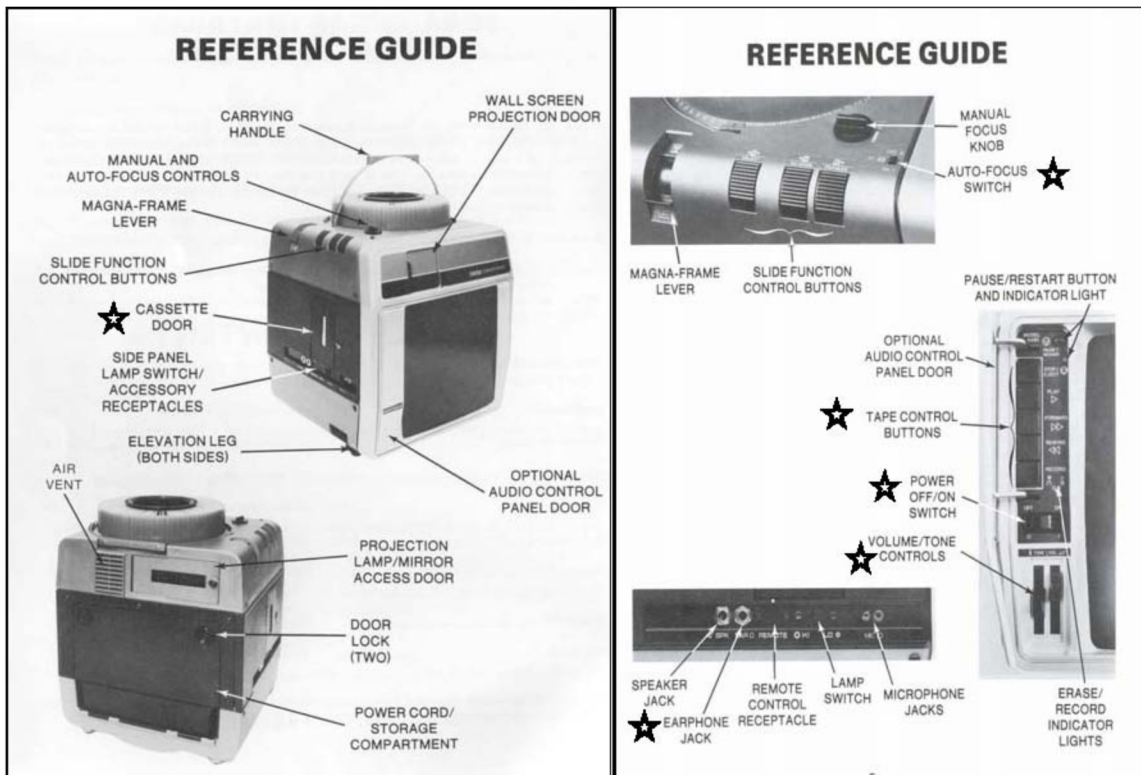


# Caramate

## Sound/Slide Projector

### Series 4000

**Functions:** Viewing slides with a cassette narration. Requires large plug headphones.



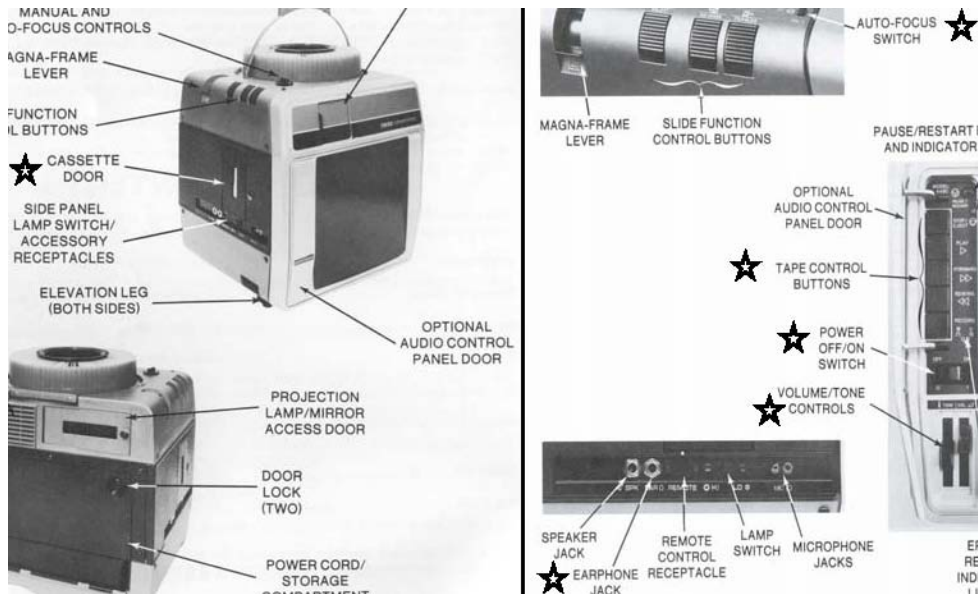


FIGURE 4: Slide projector body profile FIGURE 5: Buttons and controls

### Loading the slide tray:

1. Turn the slide tray upside down to check that the slot in the base ring is lined up with the "0" slot in the housing. If not, rotate the base ring until the slot lines up with the "0" slot in the housing and the base ring is locked in place.
2. With the slide tray upright, turn the locking ring in the direction of the arrow marked "UNLOCK" and remove the locking ring.
3. Beginning with slot number "1", load the slides in an 80- or 140- capacity slide tray in numerical order. Hold each slide so that the image appears normal, and then invert it and insert it into the tray facing the next slide position.
4. After all the slides have been inserted, replace the locking ring, and turn it in the direction of the arrow marked "LOCK".

### Loading the tape deck:

1. Open the audio control panel door to gain access to the tape deck function controls.
2. Firmly press the STOP/EJECT button to open the cassette door.
3. Place a prerecorded cassette in the tape deck with the label facing forward and the labeled audio side showing through the glass panel of the cassette door, and the full reel at the bottom.

**Note:** If the tape is inserted upside down, the cue pulses will be heard. The tape can only carry an audio program on one side.

4. Close the cassette door.
5. Press the REWIND to ensure that the tape is rewound to the beginning of the audio program.

### Beginning the program:

1. Press the PLAY button to start the program.

2. Adjust the VOL (volume) and TONE controls for a comfortable listening level.
3. If the synchronization between the tape commentary and the slide program is lost, press and hold the FORWARD or REVERSE button to move the slides until synchronization is reestablished.

### **Ending the program:**

1. At the end of the program, lightly press the STOP/EJECT button.
2. Press the REWIND button.
3. Firmly press the STOP/EJECT button to open the cassette door and remove the cassette. Close the cassette door.
4. Press and hold the SELECT button, manually rotate the slide tray to the "0" position, remove the tray, and release the SELECT button.
5. Move the power switch to OFF.

## **Troubleshooting and Maintenance:**

**Jammed slides:** The projector slide mechanism is designed to stop if a slide jams in the slide gate for any reason, reducing the possibility of damage. To reset the slide mechanism after such a jam, proceed as follows:

1. Using a coin, turn the screw in the center of slide tray in either direction as far as it will go and remove the slide tray.
2. Make sure that the locking ring on the slide tray is secure, then turn the tray upside down, and rotate the base ring until it locks in place at the "0" position.
3. Press the SELECT button to lift the jammed slide out of the slide gate and remove the slide.
4. Seat the slide tray on top of the projector. Make sure that the "0" position is aligned opposite the slide gate index marker.
5. Press the SELECT button a second time to reset the slide mechanism.
6. Return the ejected slide to its former position in the slide tray.

### **Projection lamp replacement:**

1. Place the projector power switch in the OFF position, and unplug the power cord from the outlet.
2. Turn the captive screw on the lamp access door counterclockwise until the door can be pulled open.
3. Pull back on the release lever to raise the lamp. Remove the defective lamp, and return the release lever to the original position.
4. Position a new lamp and push it carefully into the lamp receptacle.
5. Close the lamp access door, and tighten the captive screw by turning it clockwise.

## **Recording and Sound Slide Synchronisation**

These are the steps in recording the audio or voice narrations for a slide tape presentation as well as the steps in recording cue pulse to synchronise the taped narration with slides using the caramate sound/slide projector.

The audio is an important component of the slide –tape program. Proper recording and synchronisation should be done to make the whole set effective.

1. Press the STOP/EJECT button to open the cassette compartment door  
Insert a blank cassette tape in the tape deck with the tape facing outward and the full reel at the bottom.
2. Close the cassette compartment door.
3. Switch the microphone to 'off' position.
4. Plug the microphone into the MIC jacks at the side of the projector.
5. Turn the POWER switch to ON.
6. Press the REWIND button to ensure that the tape will start at the beginning.
7. Press the PLAY and RECORD buttons.
8. Switch the microphone on. Allow at least 10 seconds before recording to enable the clear head tape leader to be transported past the tape head.
9. Start voice narration. Use the microphone OFF/ON switch to start and stop the tape. Allow an interval of 4-5 seconds after each frame if an automatic advance pulse signal is to be recorded at that point later.
10. When the audio program or voice narration has been recorded, press the STOP/EJECT button.
11. Remove the microphone.
12. Press the REWIND button to go back to the beginning Press the PLAY button and adjust VOLUME/TONE control to the desired level to review the recorded narration.

## **Record Cue Pulse to synchronise tape narration with slides**

1. Organise the slides in the proper sequence, and place them in the carousel. Load tray onto the projector and start at '0'.
2. Review the script and mark spots where the cue pulse will be recorded.
3. Insert the taped narration into the tape deck of the projector.
4. Press the REWIND button to ensure that the cassette tape will start at the beginning.
5. Plug the remote control cable into the remote control receptacle.
6. Press the PLAY and RECORD buttons simultaneously. Make sure the microphone is NOT plugged in.
7. While listening to the pre-recorded tape, read the script to guide you. At the spot where the cue pulse should be recorded, press the FORWARD button to advance the slide tray and record the automatic slide advance cue pulse. Repeat the same procedure until all the cue pulses have been recorded on the tape.
8. Press the STOP/EJECT button lightly to stop the tape. Press the REWIND button to return to the beginning of the tape.
9. Press SELECT button, turn carousel until '0' is at starting point.
10. Play the tape to review the synchronised sound/slide program. The taped cues should synchronise the narration with the correct slides. When finished press the STOP/EJECT button to remove the synchronised cassette tape
11. Label the cassette for future reference.