

FILM-TECH

THE INFORMATION CONTAINED IN THIS ADOBE ACROBAT PDF FILE IS PROVIDED AT YOUR OWN RISK AND GOOD JUDGMENT.

THESE MANUALS ARE DESIGNED TO FACILITATE THE EXCHANGE OF INFORMATION RELATED TO CINEMA PROJECTION AND FILM HANDLING, WITH NO WARRANTIES NOR OBLIGATIONS FROM THE AUTHORS, FOR QUALIFIED FIELD SERVICE ENGINEERS.

IF YOU ARE NOT A QUALIFIED TECHNICIAN, PLEASE MAKE NO ADJUSTMENTS TO ANYTHING YOU MAY READ ABOUT IN THESE ADOBE MANUAL DOWNLOADS.

WWW.FILM-TECH.COM

Sankyo STEREO-800

SOUND PROJECTOR



INSTRUCTION MANUAL

 **Sankyo**
Sankyo Seiki Mfg. Co., Ltd.

17-2, 1-Chome, Shinbashi, Minato-ku, Tokyo 105, Japan TEL:(03)508-1151

Sankyo Seiki (America) Inc.

1275 Valley Brook Avenue, Lyndhurst, New Jersey 07071, U.S.A. TEL:(201)460-1500

Sankyo Seiki (America) Inc. West Coast Branch

991 Francisco Street, Torrance, California 90502, U.S.A. TEL:(213)321-0320

Sankyo (Europe) Export und Import G.m.b.H.

Viersener Straße 58, 4 Düsseldorf 11, West Germany TEL:504066-69

Sankyo Seiki (Schweiz) AG.

Morgenstraße 70, CH-3018 Bern, Switzerland TEL:031-551195

Sankyo Seiki (Hong Kong) Co., Ltd.

Room No. 712 New World Centre, 20 Salisbury Road, Kowloon,

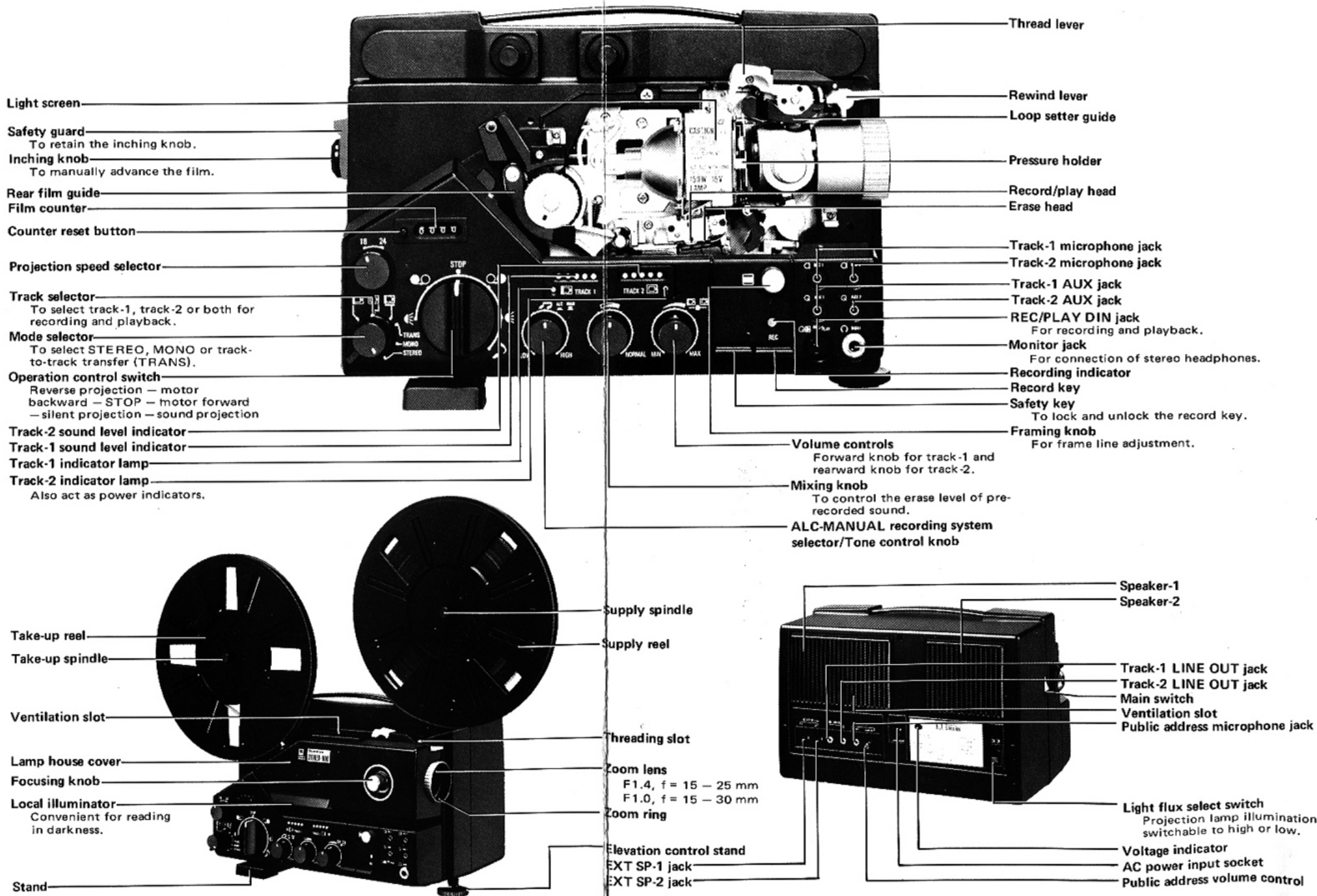
Hong Kong TEL:3-697511, 696855

Perdagangan Sankyo Sdn. Bhd.

Wisma Central, Jalan Ampang, Kuala Lumpur, 04-07 Malaysia TEL:201980, 208596

Printed in Japan
KZE-2057A

PARTS AND THEIR DESIGNATED FUNCTIONS



Thank you for purchasing the Sankyo **STEREO-800** Sound Projector. Like ordinary sound projectors your new projector can project **Super-8 magnetic sound films** (talkies) which are available on the market, or those which you have already made using a sound recording camera such as Sankyo's **SOUND XL** series camera. But the **STEREO-800's** function does not end there. The biggest feature of this unit is its **2-track system** which allows you to use two sound tracks on the magnetic sound film for recording and playback. Stereophonic or bilingual recording and playback or an addition of another sound to pre-recorded film are just three of the many possibilities the **STEREO-800** has to offer.

The operational procedures for the **STEREO-800** appears in **two chapters** of this instruction manual.

The first "**BASIC**" section describes basic operations such as setting up, threading, projecting either sound or silent film, rewinding, etc. and the second "**ADVANCED**" section, appearing on page 10, is devoted to the full explanation of recording techniques such as stereo, bilingual, dubbing, track-to-track transfer as well as mixing and sound-on-sound recording. To use this machine safely and effectively it is important to understand the various uses of the machine completely and familiarize yourself with its operation. Please read this instruction manual carefully and thoroughly.

CONTENTS

PARTS AND THEIR DESIGNATED FUNCTIONS

BASIC OPERATION

Setting up	2
Threading	3
Silent projection	5
Adjusting picture	5
Sound projection	6
Reverse projection	7
Rewinding	7
Removing film in the middle of projection	8
Projection lamp flux selection	9
Local illuminator	9

SOUND RECORDING AND PLAYBACK

Two-track system	10
Connecting external playback equipment	11
Connecting sound source devices	12

Functions of switches

and controls	13
Recording procedure	16
Track-1 recording	18
Stereo recording and playback	19
Sound dubbing	20
Two-track independent recording and playback	22
Transference of sound tracks	23
Mixed recording onto one track	23
Sound-on-sound recording	23
Fade-in/out	24
Public address	24
Track and mode selector setting combination chart	25

MAINTENANCE

Replacing projector lamp	26
Cleaning	28
Checking of voltage setting	30

SPECIFICATIONS 31

ACCESSORIES

Standard accessories	32
Optional accessories	33

BASIC OPERATION

SETTING UP

1. Check the voltage indication on the rear panel. See page 30.
2. Connect one end of the AC power cord to the power socket on the body and then fit plug top to the other end and plug into a mains outlet. When the main switch is set to "ON", the projector is powered, pre-heating of the projection lamp will begin and one or both of the track indicator lamps will light depending on the track selector setting. See page 13.

IMPORTANT:

The wires in this mains lead are coloured in accordance with the following code.

GREEN-and-YELLOW	EARTH
BLUE	NEUTRAL
BROWN	LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows.

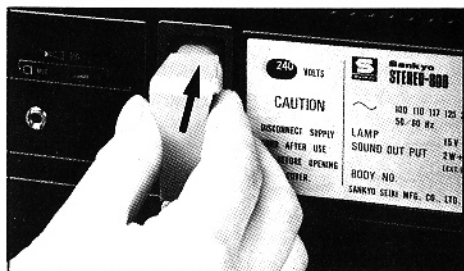
The wire which is coloured GREEN-and-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol or coloured GREEN or GREEN-and-YELLOW.


The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

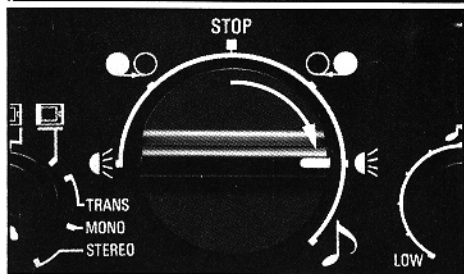
The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

WARNING:

This apparatus must be earthed.

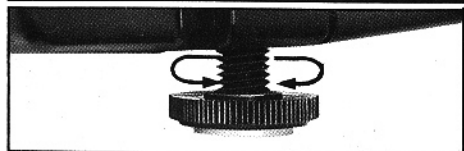


3. Set the operation control switch to the silent projection position ().



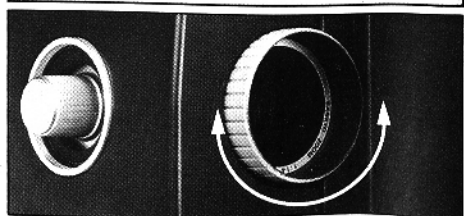
4. Position the projector so that the projected frame is in the center of the screen.


The height of the projection can be fine-adjusted by turning the elevation control stand.

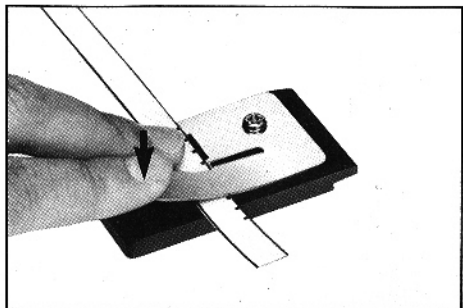


5. Adjust the size of the picture by turning the zoom ring.

If you cannot get the desired picture size with this adjustment, vary the distance between the projector and screen.



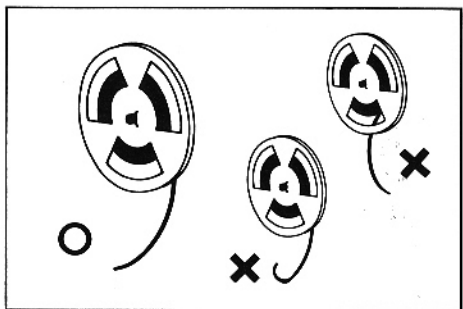
6. Set the operation control switch to STOP ().



THREADING

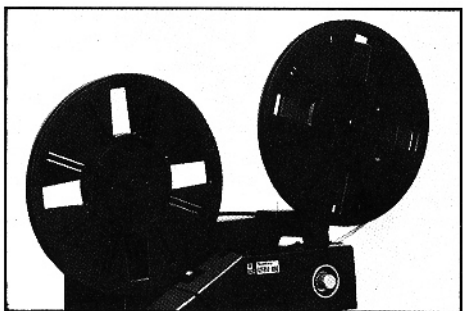
1. Shape the film tip with the film end trimmer provided to make automatic threading smoother.

If the film tip is jagged or bent, or the perforations are broken, threading will not be smooth.

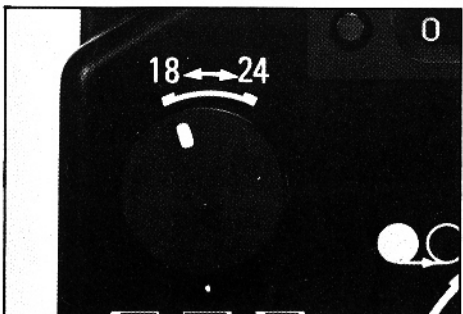


2. Splice about 50 cm (20") of white leader film to the beginning of your film.

The film is usually provided with a leader. If not, fit one on to protect your film. The white leader should slightly curl in the direction of the film take-up as shown.



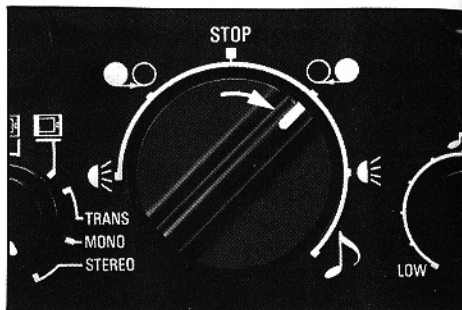
3. Lift the take-up reel arm and set an empty reel onto the spindle.
4. Lift the supply reel arm and load the film reel onto the spindle.



5. Set the projection speed selector to the desired position.

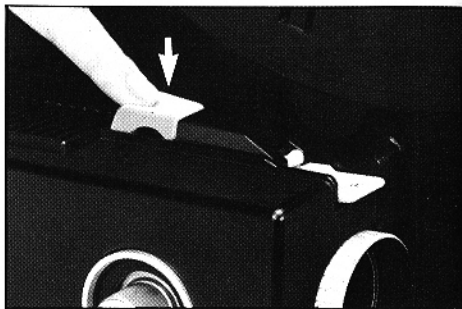
6. Set the operation control switch to the motor forward position (○●).

In this condition, the motor rotates in readiness for the film to be threaded, but the projection lamp does not yet light. Dimming of the lamp indicates that it is being pre-heated.

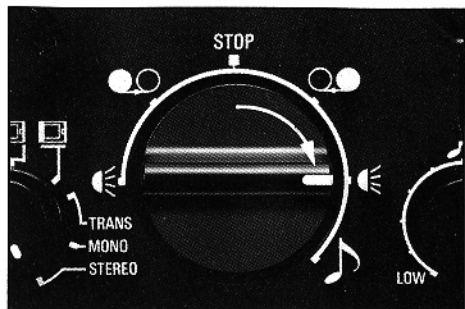


7. Press down the thread lever lightly until it locks.
8. Insert the film tip into the threading slot.


The film will be threaded automatically and wound onto the take-up reel.



- If the film is not automatically wound onto the take-up reel core because of an improper curvature at its end, return the operation control switch to **STOP** and manually wind the film end onto the core.
- Be very cautious not to change the operation control switch while in the midst of the automatic film threading operation. Leave it in the ○● position.
- If the film threading is not completed within about 6 seconds, turn the operation control switch to **STOP** and open the lamp house cover to check the threading condition.

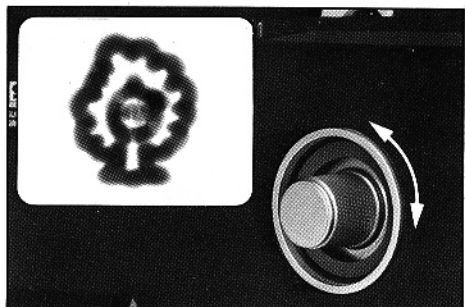


SILENT PROJECTION

1. Set the operation control switch to the silent projection position ().

The thread lever will be automatically released and projection will start.

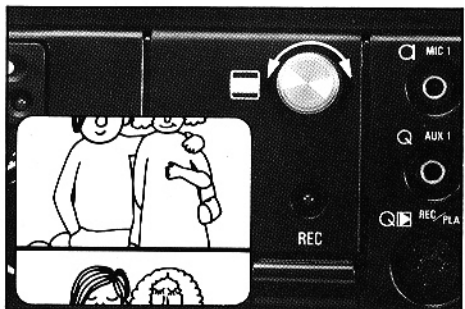
The volume control knob should be set at minimum.




ADJUSTING PICTURE

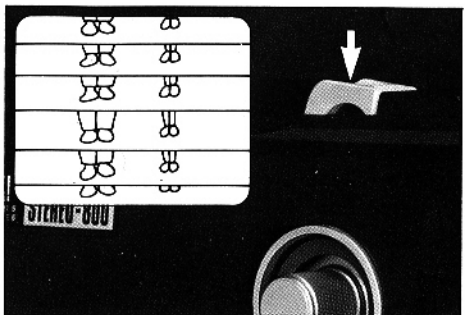
1. If it is out of focus . . .

- Focus with the focusing knob.



2. If a frame line is seen . . .

- Adjust by turning the framing knob (). Turning it clockwise will move the frame line downwards, and vice versa.




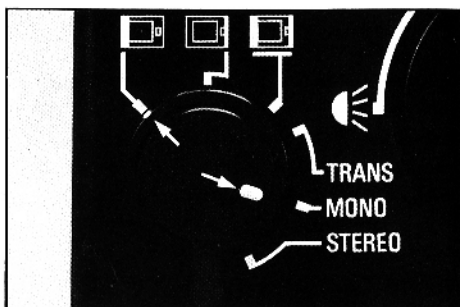
3. If frames are unstable and flow upward or downward . . .


- Press the thread lever several times. If malfunctioning continues, the loop of the film may be incorrect. Stop projecting, and open the lamp house cover. Correct the film loop by pressing down the right end of the loop setter guide.

SOUND PROJECTION

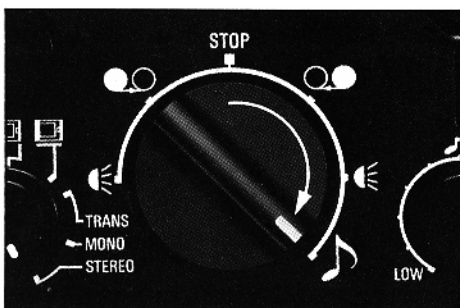
This section only describes how to project sound films made by sound cameras, or films having a sound track recorded with ordinary sound projectors, or printed sound films available on the market. For more elaborate playback capabilities available only in connection with the STEREO-800's unique recording capabilities based on the 2-track system, please read Chapter II, "SOUND RECORDING AND PLAYBACK", appearing on page 10.

1. Set the track selector to .
2. Set the mode selector to MONO.



3. Set the operation control switch to the sound projection position ().

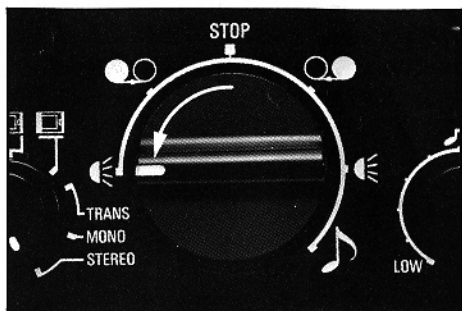
The two built-in speakers produce the sound. For usage of external speakers or headphones, see Chapter II.




4. Adjust the sound level using the volume controls.
5. Adjust the tone by turning the tone control knob in either direction to emphasize highs or lows.







The optical sound track cannot be heard with the STEREO-800 projector.

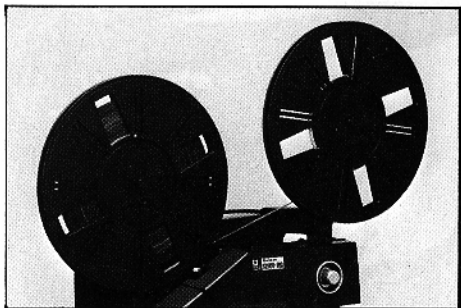


REVERSE PROJECTION

1. Set the operation control switch to the reverse projection position (left ) .

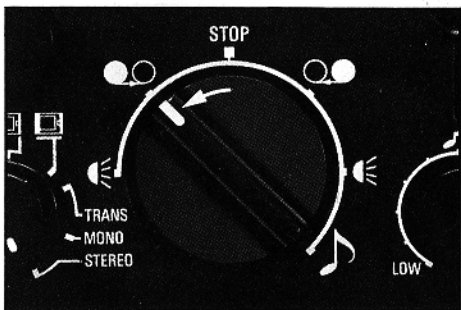
Turn the switch in the order of  →  →  . Sound cannot be heard in reverse projection.


When you change the mode from forward projection to reverse projection or vice versa, keep the operation control switch in the STOP () position for a few seconds before going to a new mode.

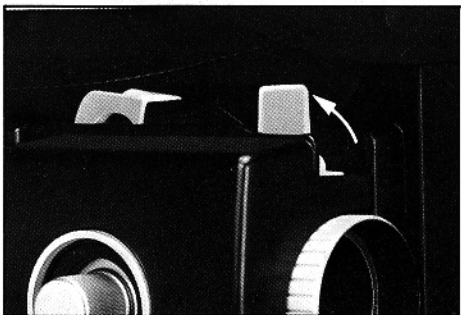


REWINDING

1. Wind the end of the film on the take-up reel onto the supply reel.




2. Set the operation control switch to the motor reverse position () .



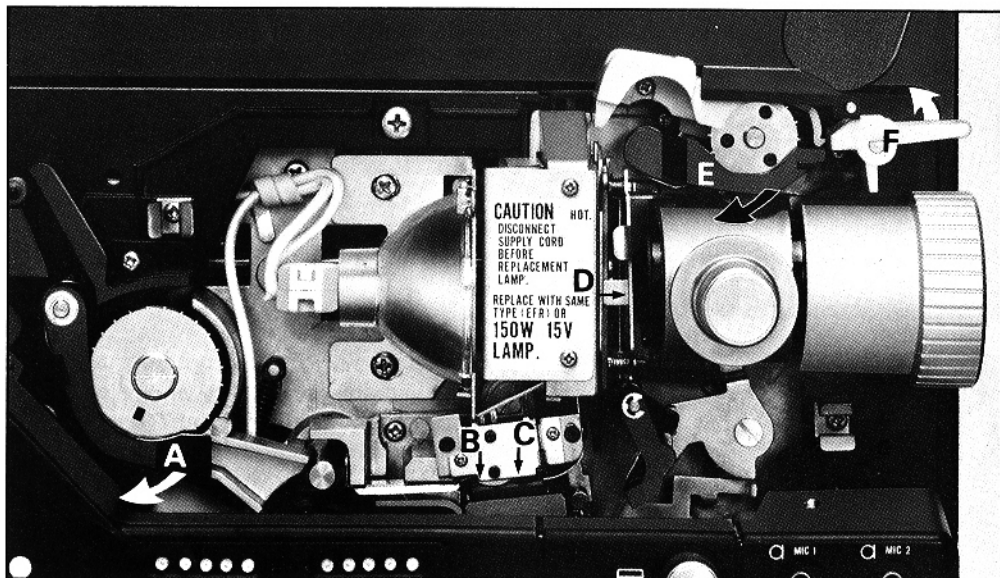
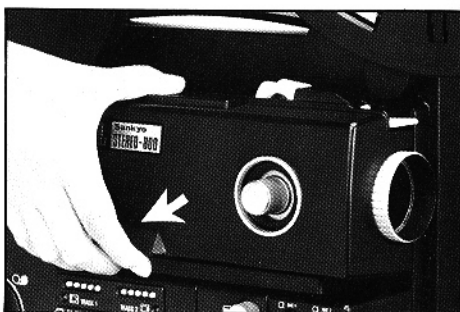
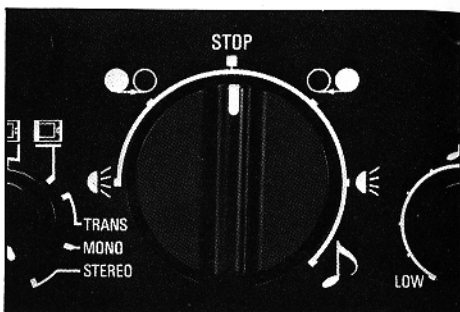
3. Flip up the rewind lever.
4. After completion of rewinding, set the operation control switch to STOP and return the rewind lever into the horizontal position.

REMOVING FILM IN THE MIDDLE OF PROJECTION

1. Set the operation control switch to STOP () and set the main switch to OFF. Unplug the power cord.
2. Remove the lamp house cover.

The light screen and other interior parts may be very hot. Be careful.

3. Move the rear film guide to the left and take out the portion of the film near the recording head.
4. Release the pressure holder and remove the film.
5. Press down the loop setter guide and take out the film from that area.
6. Flip up the rewind lever and remove the film.
7. Replace the pressure holder and rewind lever.



A = Rear film guide

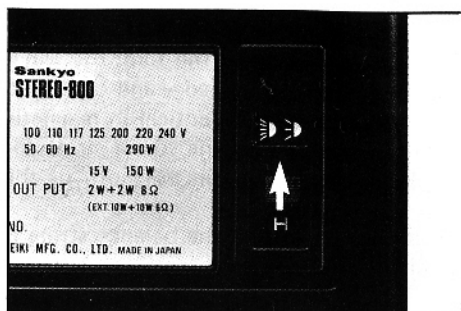
B = Record/Play head

C = Erase head


D = Pressure holder

E = Loop setter guide

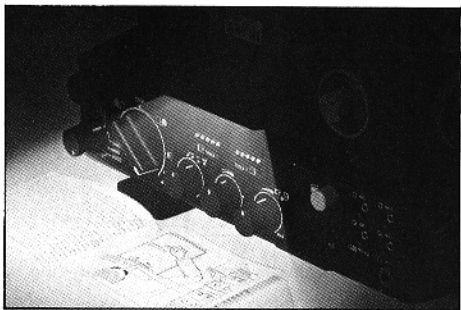
F = Rewind lever



PROJECTION LAMP FLUX SELECTION

The light flux select switch marked  on the rear panel permits illumination control in two modes. To increase light flux, move the switch upward until the letter "H" appears. To reduce it, move the switch downward until the letter "L" is seen.

Except for projecting onto a large-sized screen, it is recommended that the "L" position be used to prolong the service life of the projection lamp.



LOCAL ILLUMINATOR

A lamp is provided on the front panel to illuminate a limited area as shown by the picture. The lamp remains lit irrespective of the operation control switch setting as long as the AC power cord is connected to the AC outlet and the main switch is set to ON. Employ it for preparing the film you wish to project next or for reading some memoranda.

SOUND RECORDING AND PLAYBACK

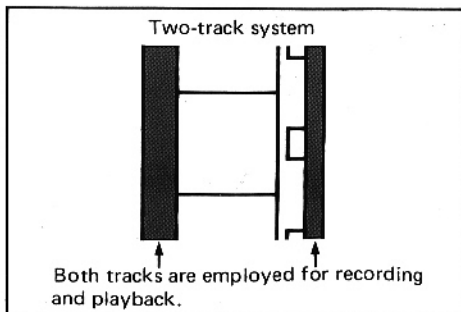
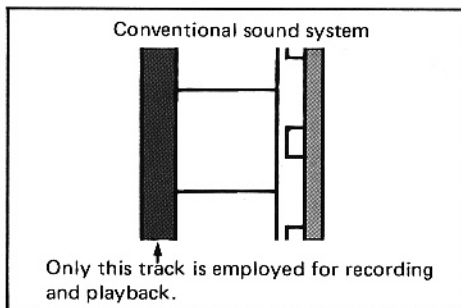
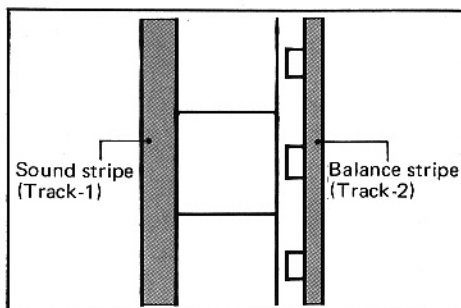
TWO-TRACK SYSTEM

Magnetic sound film has a stripe of magnetic coating on either edge of the film; the wider one is called "sound stripe" and the other, located on the perforated edge and coated to balance the thickness of the film, is called "balance stripe". Both are identical in magnetic properties, although conventional sound systems have employed only the sound stripe for recording and playback. Now, with the Sankyo STEREO-800, you can use both of the magnetic stripes for sound recording and playback.

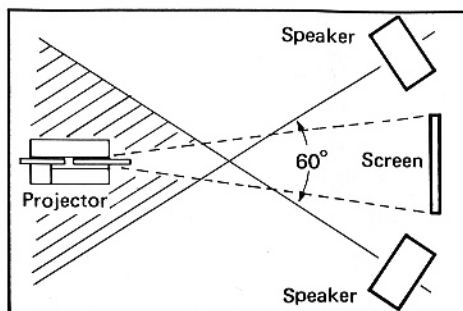
The two-track system, in which the sound stripe is called track-1 and the balance stripe is called track-2, permits different ways of utilizing either track independently or both of them together.

The STEREO-800 permits:

- (1) Recording onto track-1 and playback of track-1
- (2) Recording onto track-2 and playback of track-2
- (3) Mixed playback of track-1 and track-2
- (4) Stereophonic recording and playback
- (5) Adding a new sound track onto a sound film already made with a sound camera
- (6) Bilingual recording and playback
- (7) Track-to-track transference of sound
- (8) Sound-on-sound recording on either one of the tracks
- (9) Mixed recording on either one of the tracks
- (10) Public addressing



The two-track system does not function with sound films having no balance stripes.

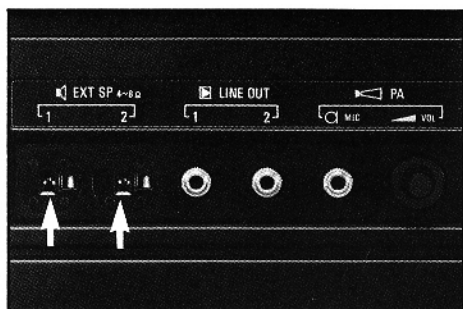


CONNECTING EXTERNAL PLAYBACK EQUIPMENT

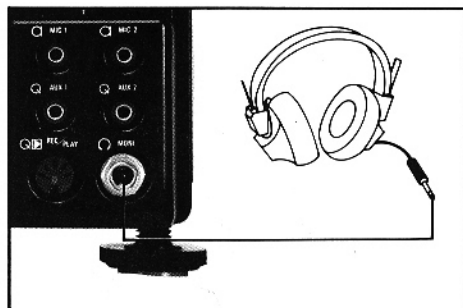
External speakers

Two speakers are built in for reproduction of both tracks. However, to enhance the stereo effect, optionally available speaker systems can be used.

Connect the left speaker to the EXT SP 1 jack and the right speaker to the EXT SP 2 jack. Arrange the speakers as illustrated and the hatched area will give you a quite satisfactory sound field.



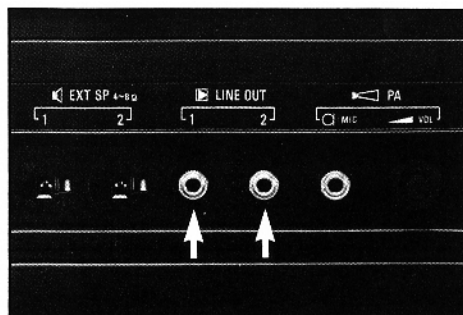
- Use an external speaker with an impedance between 4 and 8 ohms.
- When an external speaker is plugged into either one of the speaker jacks, the built-in speaker corresponding to that track will be disconnected.
- Be careful not to short-circuit the speaker circuit.



Headphones

To monitor the sound being recorded, employ the provided headphones by connecting them to the MONI jack.

In stereophonic reproduction, the unit marked "L" reproduces track-1 sound and the unit marked "R" reproduces track-2 sound.



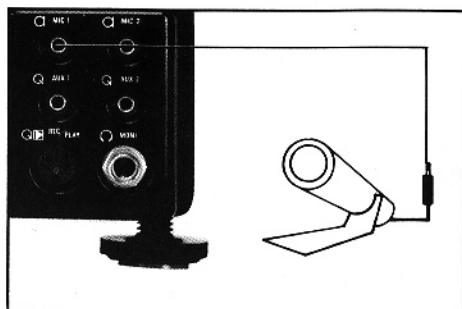
Audio systems

To listen to the sound through an audio system, connect the LINE OUT 1 and 2 jacks or REC/PLAY DIN jack to the amplifier's AUX IN, LINE IN or DIN jacks. The projector's volume control has no effect on the reproduced sound volume and the level indicators reflect the strength of the recorded signals on the film. Adjust the playback volume with the amplifier's volume control.

CONNECTING SOUND SOURCE DEVICES

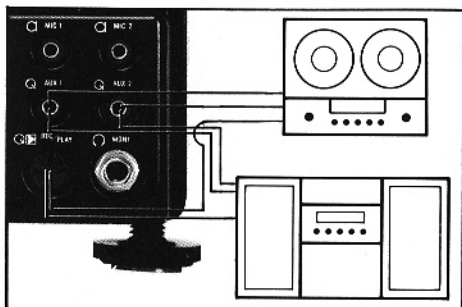
1. Microphone(s)

Connect the microphone(s) to the \odot MIC 1 and/or \odot MIC 2 jack(s).



2. Audio system, record player, tape recorder, etc.

Connect to the \odot REC/PLAY DIN jack using a DIN cord or connect the \odot AUX 1 and/or \odot AUX 2 jack(s) to the LINE OUT or REC OUT jack(s) of the sound source.

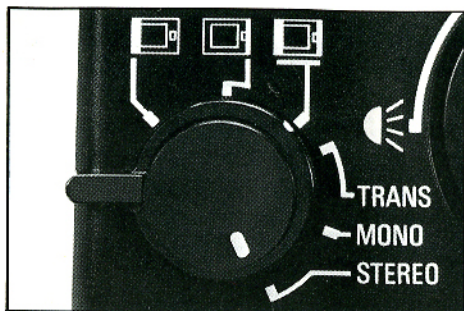


CAUTIONS:

The Sankyo STEREO-800 was designed to enable quality recordings to be obtained from various electronic sound sources. However, due to the internal resistance of various connecting cords, the Sankyo STEREO-800 may fail to make recordings if sources are connected to the \odot AUX jacks. In such instances, connect to the \odot MIC jacks or use a low impedance cord. If the output level of the sound source is in extreme variance to the specified input level of the projector's jacks, adjust the recording level using the projector's volume controls and the output level control of the sound source, while referring to the projector's sound level indicators.

Input and output specifications

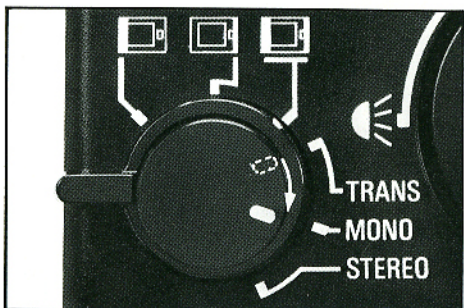
MIC	: input impedance	680 Ω
	input level	approx. -70 dB (0.25 mV)
AUX	: input impedance	470 k Ω
	input level	approx. -18 dB (100 mV)
LINE OUT	: output impedance	10 k Ω
	output level	approx. -5 dB (435 mV)







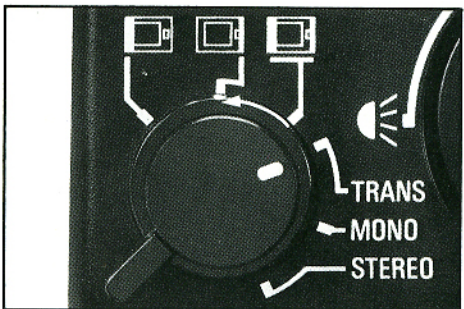
FUNCTIONS OF SWITCHES AND CONTROLS

Mode selector and track selector




Different setting combinations of these two selectors provide different functions. Carefully follow the instructions for each function described later or refer to the chart on page 25 to understand the exact function of each combination.



The combination of the mode selector setting TRANS with the track selector setting  (means track-1 & track-2) does not provide any real function. To avoid this combination, a built-in mechanism produces the following safeguard: if the track selector is set to  with the mode selector at TRANS, the mode selector automatically moves to MONO, or, if the mode selector is turned to TRANS with the track selector at , the track selector automatically moves to .



Track indicator lamps

The track-1 indicator lamp lights when the track selector is set to , and the track-2 indicator lamp lights with the track selector at . Both lamps will light when the  position is selected. These lamps remain lit as long as the projector is connected to an AC outlet, and the main switch is set to ON, functioning as power indicators.


Recording level adjustment

There are two recording level control systems available; ALC (Automatic Level Control) and manual control. The tone control knob also works as the ALC/Manual select switch.

(1) Automatic level control

Push in the tone control knob to ALC. The recording level will be automatically kept at the optimum level.

(2) Manual level control

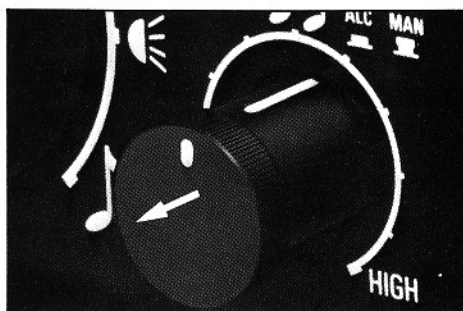
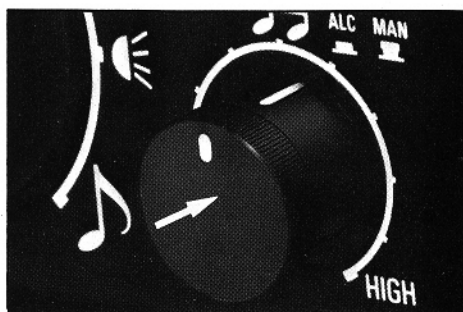
Pull out the tone control knob to MAN. Holding down the record key, set the operation control switch to the sound projection position (). Then adjust the recording level with the forward and rearward volume controls, referring to the level indicators.

If you want to adjust the recording level before starting projection, merely hold down the record key. The recording indicator will light and the level indicators will be in readiness for recording level indication.

Sound level indicators

Five lamps for each individual track flash to indicate the recording sound level. As the input level increases, the lamps from left to right will light successively. Occasional lighting of the rightmost lamp will provide optimum recording level. The level indicators also function during playback, indicating the LINE output level.

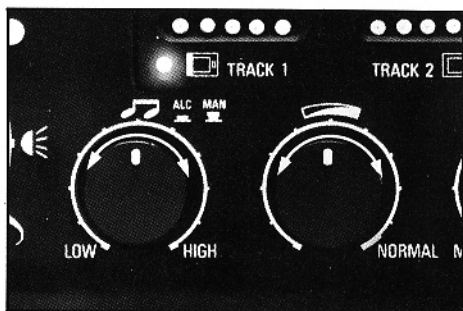
In the automatic level control mode, the optimum recording level can be obtained when the center lamp lights occasionally. If the input signal level is less than this, increase source signal level.





Volume controls

The volume controls adjust both the recording level and speaker or headphone volume during playback. The forward knob for track-1 and the rearward knob for track-2 rotate independently for precise control of each track.



Tone control knob

A single knob controls both tracks simultaneously and is effective only during playback. Turning it clockwise emphasizes highs (treble), and vice versa.

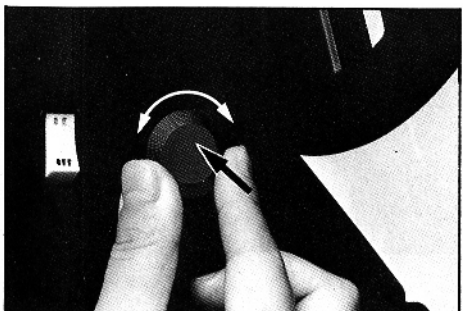
Mixing knob

The mixing knob is employed to control the relative level of two sounds superimposed on one track.



Film counter

The digital film counter counts 1 unit per approximately 18 frames. It aids in locating either the desired recorded section or the section on which you wish to record. Pressing the reset button returns the counter to "0000" any time.




Inching knob

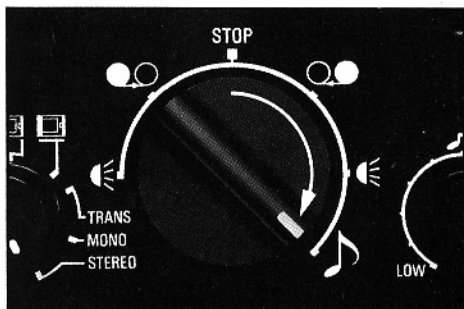
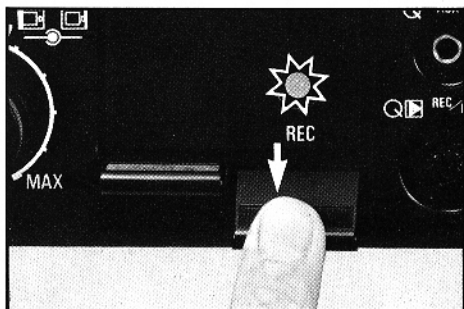
To check the condition of the film or the transition between frames, it may be required to manually advance the film in small segments. In such an instance, remove the safety guard retaining the inching knob and turn the knob while pressing in.


Do not use the inching knob while the motor is running.

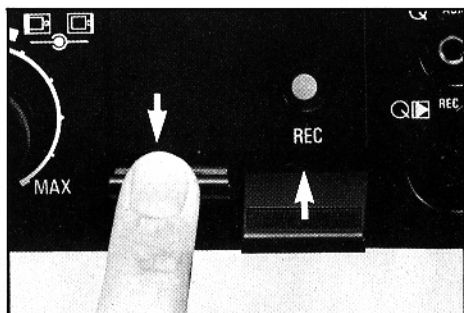
RECORDING PROCEDURE

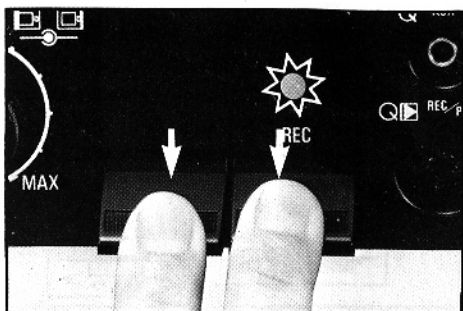
1. Connect each sound source as required. See page 12.
2. Set the track selector as required. See the following pages.
3. Set the mode selector as required. See the following pages.
4. Select the ALC or manual recording level control system with the tone control knob. See page 14.
5. Adjust the recording level as desired when manual control is selected. See page 14.
6. Leave the mixing knob in the fully clockwise position except for sound-on-sound recordings.
7. Thread a magnetic-striped film.
8. While holding down the record key, set the operation control switch to .

The recording indicator will light up, and recording will commence.



9. To stop recording, press down the safety key or set the operation control switch to the silent projection position ().






When you are projecting with sound, to start and stop the recording, use the safety key. First press the safety key and then the record key. When you release only the safety key, the record key will remain locked. To stop the recording, again press the safety key.

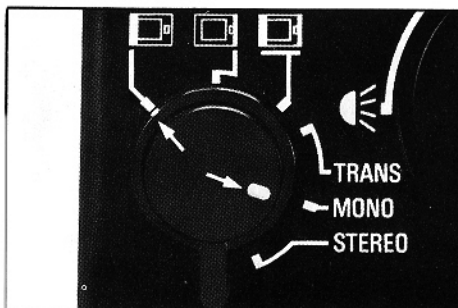
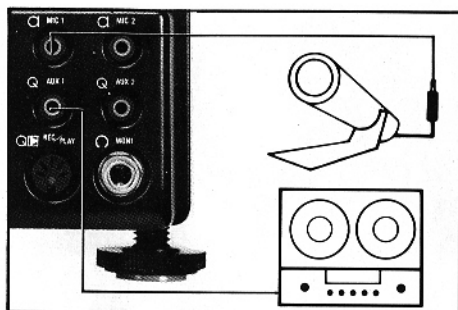
In making a re-recording, erasing of previously recorded material is unnecessary since erasing is automatic while re-recording. When re-recording, the mixing knob should be set at NORMAL (fully clockwise). If you desire only to erase, disconnect the sound sources and operate the projector in the recording mode.

Even the slightest operational error during recording or mixing can result in irreparable damage to your valuable recordings. It is recommended therefore, that you acquire operational proficiency by practicing with discardable films.

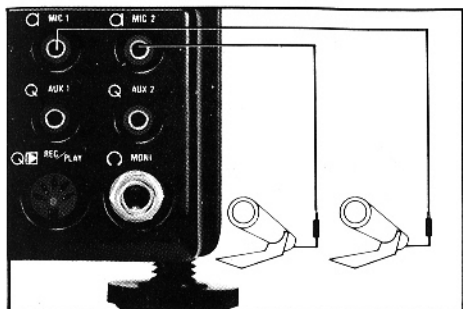
TRACK-1 RECORDING

The STEREO-800 provides the same results as conventional sound projectors when used in the following way for recording on track-1 only. The resulting sound films are usable, having full benefits, with any of the conventional sound projectors.

1. Connect a microphone to the MIC 1 jack or connect an external sound source to the AUX 1 jack or REC/PLAY DIN jack.
2. Set the track selector to  .
3. Set the mode selector to MONO.
4. Adjust the recording level or select the ALC recording mode (see page 14.)
5. Leave the mixing knob in its fully clockwise position.
6. Place the projector in the recording mode (see pages 16, 17.)







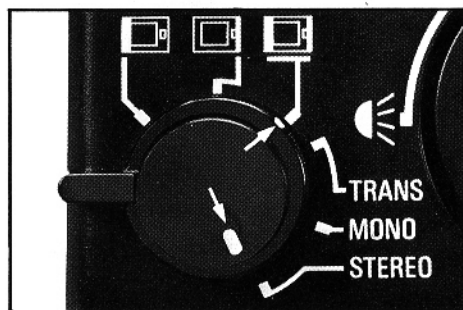
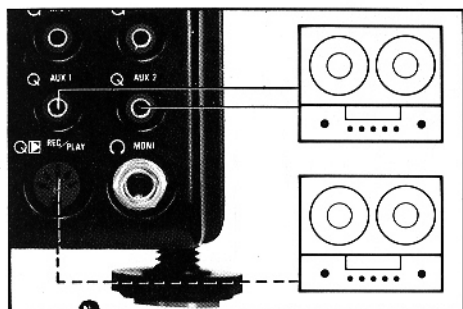
For playback of the recorded films, see Chapter I, page 6.




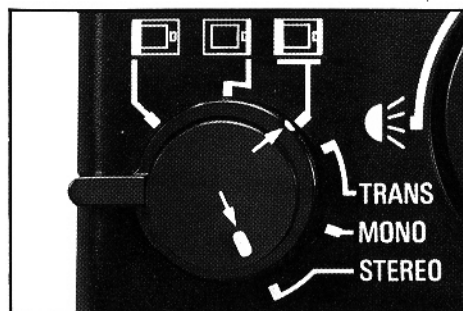
STEREO RECORDING AND PLAYBACK

Recording



1. Connect the left microphone to the  MIC 1 jack and the right microphone to the  MIC 2 jack. Or if you employ a stereo system as a source device, connect its left channel output to the  AUX 1 jack and its right channel output to the  AUX 2 jack. When the source device is equipped with a 5-pin DIN jack, use a DIN cord for connection.



2. Set the track selector to .
3. Set the mode selector to STEREO.
4. Adjust the recording level or select the ALC recording mode. See page 14.
5. Leave the mixing knob in its fully clockwise position.
6. Place the projector in the recording mode. See pages 16, 17.



Playback

1. Set the track selector to .
2. Set the mode selector to STEREO.
3. Set the operation control switch to .
4. Adjust the volume with the two volume controls.
5. Adjust the tone with the tone control.


For external speaker or headphone listening, see page 11.

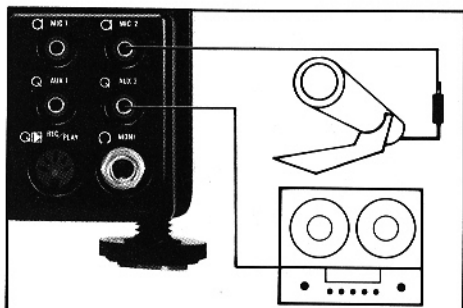
SOUND DUBBING

Sound dubbing is the capability of adding another sound track onto those sound films which have previously been made with a sound camera.

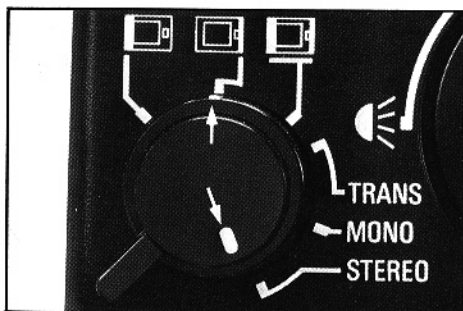
Adding background music or a narration will be just two of its various possible applications. When music or narration is recorded onto track-2 and played back along with the original sound on track-1, the same result as mixed recordings is easily and conveniently obtainable.

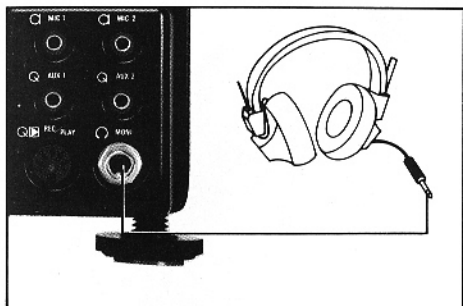
Recording

1. Connect a microphone to the MIC 2 jack or an external sound source to the AUX 2 jack or DIN jack.
2. Set the track selector to .




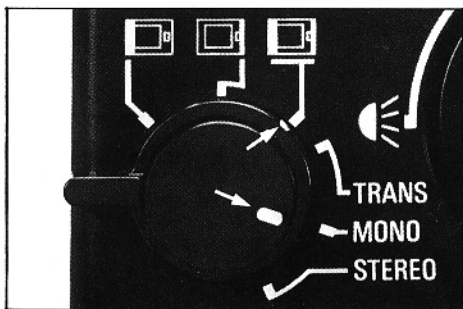
3. Set the mode selector to STEREO.
4. Place the projector in the record mode after proper recording level adjustment.






Monitoring while recording

With the stereo headphones connected to the  MONI jack, the track-2 sound being recorded can be monitored through the "R" unit and the track-1 sound already recorded can be heard from the "L" unit.



Playback

1. Set the track selector to .
2. Set the mode selector to MONO.

The MONO setting will provide the effect of mixed playback and both speakers will produce the same sound. If the mode selector is set to STEREO, the track-1 sound is reproduced through speaker-1 and the track-2 sound is reproduced through speaker-2.



As well as adding a new sound track onto simultaneously recorded sound films, this facility also permits independent recording onto track-1 and track-2 and mixed playback. For example, you can record instrumental accompaniment onto track-1 and then your own singing onto track-2.

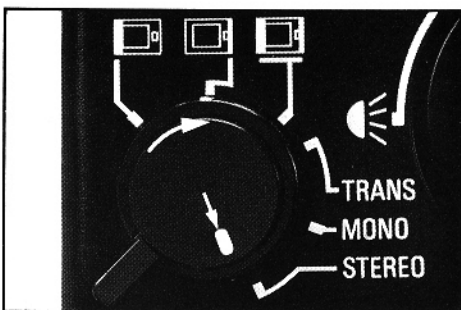
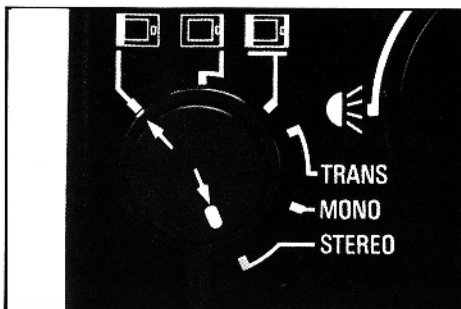
- *The pre-recorded track-1 sound is not affected by this recording procedure even though you repeatedly record on track-2.*

TWO-TRACK INDEPENDENT RECORDING AND PLAYBACK



Narrations in various different languages can be separately and independently recorded onto either track and then one of them selected as the occasion calls.

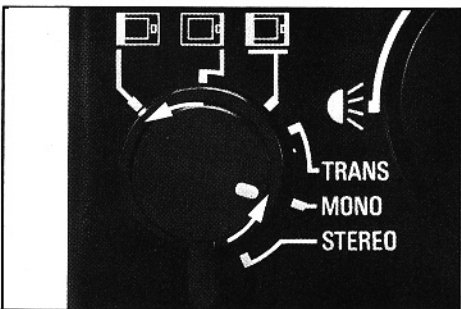
Recording

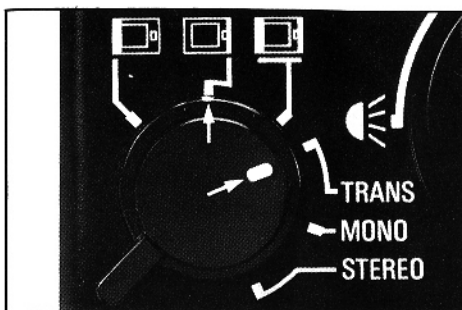
1. First connect the source device to a jack corresponding to track-1.
2. Set the track selector to .
3. Set the mode selector to STEREO.
4. Perform recording.
5. After recording one language onto track-1, rewind the film.
6. Re-connect the source device to a jack corresponding to track-2.
7. Set the track selector to , while leaving the mode selector at STEREO.
8. Perform recording of another language. The track-1 sound can also be monitored while recording.



Playback

1. Set the track selector to either  or , depending on which of the recorded languages you desire to hear.
2. Set the mode selector to MONO. This will permit one language narration to be heard from both speakers.







TRANSFERENCE OF SOUND TRACKS

The track-1 sound can be transferred to track-2, or vice versa.

To transfer from track-1 to track-2:

1. Set the track selector to .
2. Set the mode selector to TRANS.
3. Place the projector in the recording mode.

To transfer from track-2 to track-1:

1. Set the track selector to .
2. Set the mode selector to TRANS.
3. Perform recording operations.

The original sound track remains unerased after transference.

While using this function and applying an input to the jack, this input sound can be mixed with the sound being transferred and together recorded onto the same track.

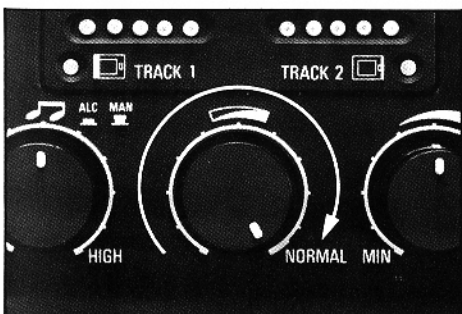
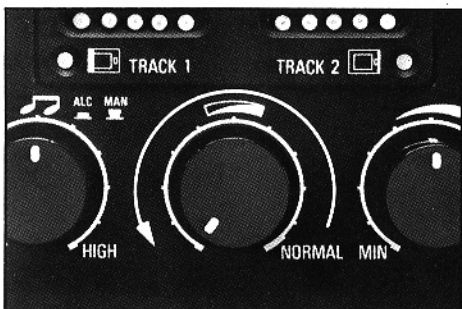
MIXED RECORDING ONTO ONE TRACK

Two sound signals, one from a microphone and one from an external source, can be recorded simultaneously onto one individual track selected with the track selector. Balancing the levels of the two signals should be performed on each of the sound sources.

SOUND-ON-SOUND RECORDING

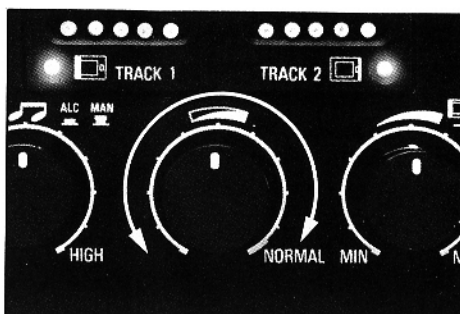
A new sound can be superimposed upon a previously recorded sound. A mixing knob is provided as an aid for controlling the erasure level of the original recording and the recording level of the superimposed recording. This control is effective only for that track selected using the track selector.

- When the knob is turned fully counterclockwise, the previous recording remains at its full original level while the new sound is not recorded.
- When the knob is turned fully clockwise, the previous recording is erased completely while the new sound is recorded at its full original level.
- With the knob positioned midway, two sounds are recorded superimposed.



FADE-IN/OUT

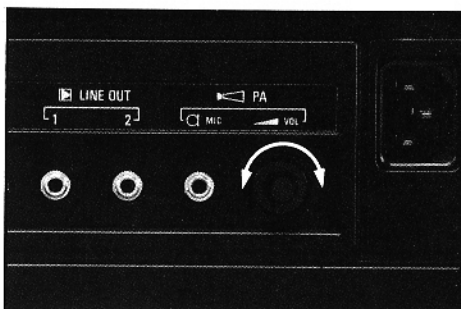
This is a simple application of the superimposed recording facility. By turning the knob in either direction while recording, one sound is faded in while the other is faded out.



PUBLIC ADDRESS

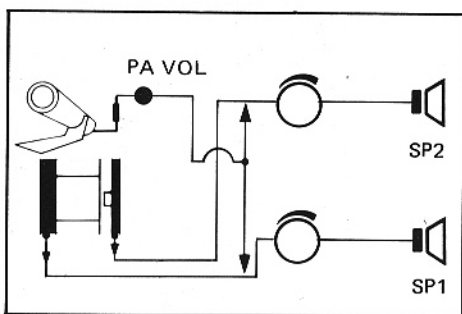
1. Connect a microphone to the PA MIC (🔊🔊) jack located on the rear panel.
2. Adjust both the rear panel PA VOL (🔊🔊) and the front panel volume controls to obtain optimum public address sound volume.
3. Adjust the tone with the tone control if necessary.

Public addressing is possible either in the stop mode or during sound projection.



As can be seen from the wiring diagram on the right, the input to the public address microphone passes through both the PA VOL control and the two front panel volume controls to enter the speakers.

Therefore, if the front panel controls are set at a minimum, turning the PA VOL control will be ineffective. Likewise, the front panel volume controls fail to affect the public address sound volume if the PA VOL is turned fully counter-clockwise.



While using a microphone during monaural recording, turn the volume to a minimum, or howling will result. Employ the headphones if you wish to monitor the sound being recorded.

TRACK AND MODE SELECTOR SETTING COMBINATION CHART

The function of the projector differs depending on the various track and mode selector settings for recording and playback combinations. This chart illustrates a number of possible applications. Experiment to discover one's own personal preferences.

PLAYBACK (PROJECTION)

Track Selector / Mode Selector	<input type="checkbox"/> Track 1	<input type="checkbox"/> Track 2	<input checked="" type="checkbox"/> Track 1 & 2
TRANS			
MONO			
STEREO			

RECORDING


Track Selector / Mode Selector	<input checked="" type="checkbox"/> Track 1	<input type="checkbox"/> Track 2	<input checked="" type="checkbox"/> Track 1 & 2
TRANS			
MONO			
STEREO			

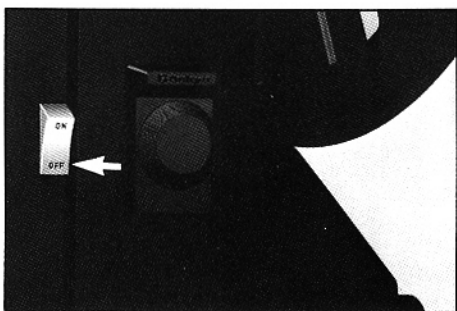
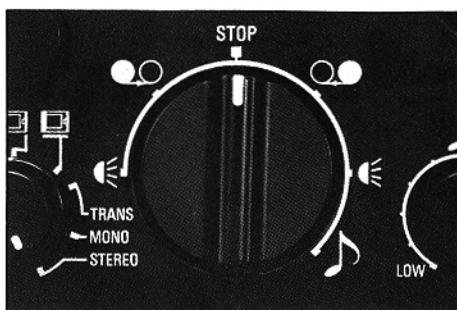
L.C. stands for Level Control. Recording level control can be performed either automatically or manually.

indicates playback level control.

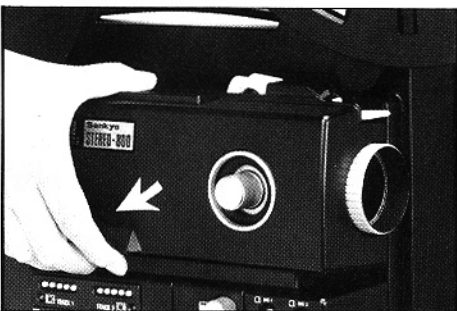
MAINTENANCE

REPLACING PROJECTOR LAMP

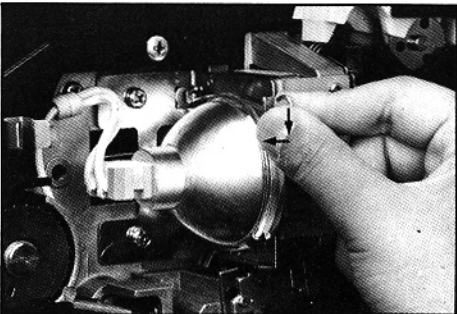
1. Set the operation control switch to STOP () and set the main switch to OFF.
2. Unplug the power cord.

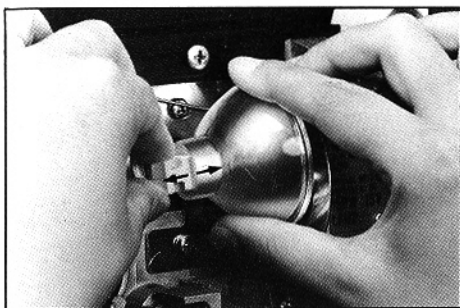


3. Remove the lamp house cover.
4. Permit sufficient time for the interior parts to cool.

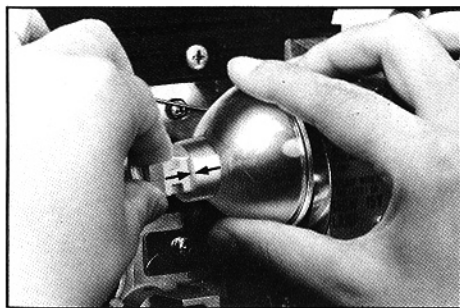


5. While holding the lamp, remove the retaining spring from the spring holder by pulling it downwards.

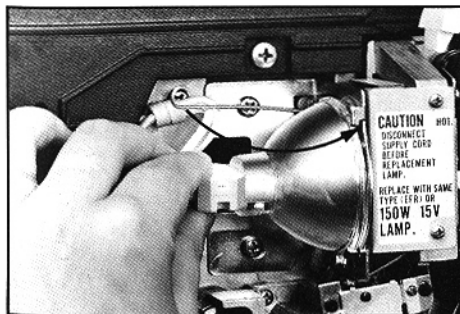




6. While holding the base of the lamp steady, withdraw the socket.



7. Insert a new lamp into the socket.



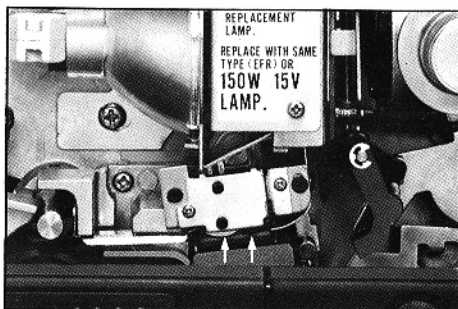
8. Realign the notch in the lamp holder with the positioning pin of the new lamp and replace the retaining spring.

- Use a 15 V/150 W halogen lamp with a dichroic mirror. (EFR)
- Be careful not to touch the lamp bulb or reflector surface.
- Do not plug in the power cord before replacing the lamp house cover.

CLEANING

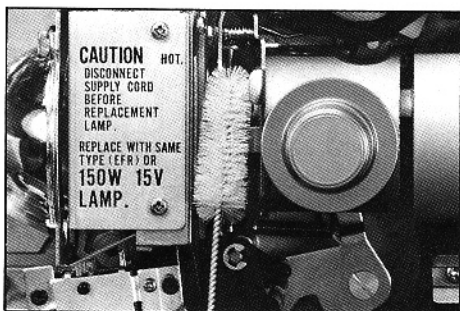
1. Cleaning the heads

Soiled heads will produce noise and erratic sound. Always keep them clean. Gently wipe them with a cotton swab or a soft cloth (soaked in alcohol if they are quite dirty). Do not bring metal objects close to or in contact with the heads.



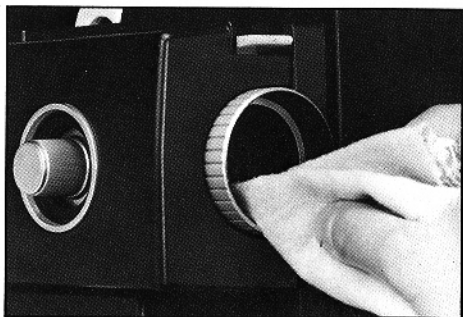
2. Cleaning the film passage

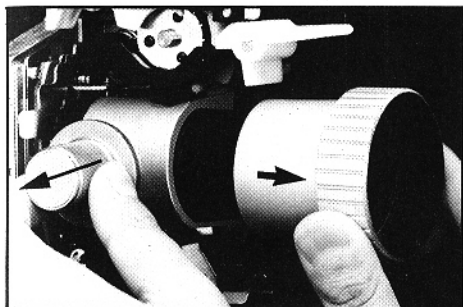
If dust adheres within the film's path, particularly at the aperture, not only will the quality of picture and sound deteriorate, but the film may be scratched. Clean the area with the brush provided. Open the pressure holder to clean the aperture.



3. Cleaning the lens

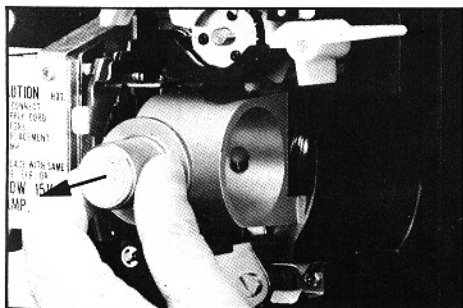
If the lens becomes soiled with oil or fingerprints, wipe it carefully with a soft, alcohol-dampened cloth.





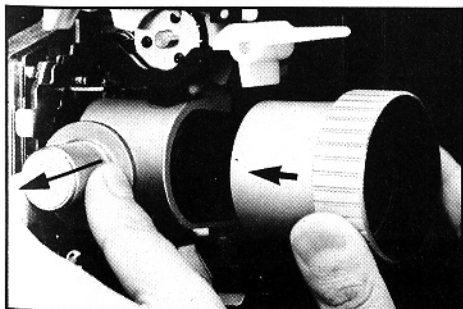
- Removing the lens

1. Remove the lamp house cover.
2. Pull the focusing knob toward you to remove the lens.



- Replacing the lens

1. While pulling the focusing knob toward you, align the lens holder pin with the groove in the lens and properly position the lens.

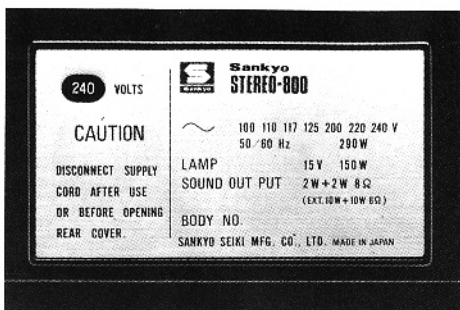


2. Turn the focusing knob to determine if the lens extends and retracts properly. If not, gently move the lens back and forth to facilitate its engaging with the focusing knob.

CHECKING OF VOLTAGE SETTING

The model identification plate is located on the rear panel. Appearing in its upper left hand corner is a window slot displaying this projector's voltage setting. If the displayed voltage is different from the local line voltage, change the setting in the following manner:

1. Remove the power cord from your projector. (Be sure to unplug the power cord before removing the rear cover.)
2. Remove the rear cover by loosening the 3 set screws.
3. Set the voltage selector cap to correspond to the local line voltage.
4. Replace the rear cover.
5. Check the displayed voltage in the window slot.



GUARANTEE

Your Sankyo STEREO-800 is internationally guaranteed for any defect in material or workmanship for a full year from the date of original purchase. For details, read the SANKYO INTERNATIONAL GUARANTEE which is enclosed in the original projector package.



SPECIFICATIONS

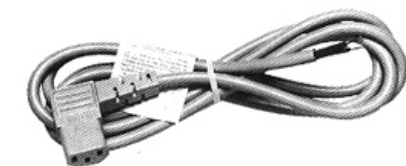
Film	: Super-8
Projection lens	: F1.4 f = 15 – 25 mm zoom lens F1.0 f = 15 – 30 mm zoom lens (Sankyo Hi-Pro Zoom)
Projection lamp	: 15 V/150 W halogen lamp with dichroic mirror (EFR)
Light flux	: Switchable in two steps
Projection speed	: 18 and 24 frames per second
Threading	: Automatic
Projecting	: Forward and reverse
Film capacity	: 240 m (800 ft) for Super-8 film
Film counter	: 4-digit (1 unit per 18 frames)
Film inching	: Possible
Power supply	: 100, 110, 117, 125, 200, 220, 240 V, 50/60 Hz
Power consumption	: 290 watts
Motor	: Frequency-controlled DC motor
Record/playback system	: Magnetic
Track system	: 2-Track (Stereo recording and playback, monaural recording and playback, dual playback)
Amplifier	: 13 IC's, 11 silicon transistors, 14 diodes
Power output	: Max. 15 watts + 15 watts Rated 10 watts + 10 watts (at 6 ohms)
Built-in speakers	: Two 10 cm (4") speakers, 2 W, 8 ohms
Output jacks	: Speakers, headphones, DIN, LINE OUT
Input jacks	: Microphones, DIN, AUX (Mixed recording is possible from microphone and DIN or AUX jacks)
Recording level control	: ALC (Automatic Level Control) and manual control
Level indication	: Five-lamp indicator for each track
Mixing	: Available
Sound-on-sound	: Available (fade-in/out)
Track-to-track transference	: Available
Public address	: Provided
Tone control	: Provided
Microphone	: Dynamic, 400 ohms
Headphones	: Dynamic, stereo 8 ohms
Dimensions	: 226 mm(H) x 324 mm(W) x 226 mm(D) (8-15/16" x 12-13/16" x 8-15/16")
Weight	: 10.6 kg (23.4 lbs.)
Standard accessories	: Power cord, 240 m (800 ft) reel, cleaning brush, microphone, microphone stand, stereo headphones, film end trimmer
Optional accessories	: Sankyo Auto Reel 240 m (800 ft), Sankyo Condenser Microphone SMU-231, Sankyo Viewer SVW-761, Sankyo Hi-Pro Zoom SLZ-261, Sankyo Sound Speaker Set SSB-161, Sankyo Projector Carrying Case SCB-061

ACCESSORIES

STANDARD ACCESSORIES



Auto reel 240 m (800 ft) SFL-861



Power cord



Film end trimmer



Microphone
Microphone stand
SMN-101



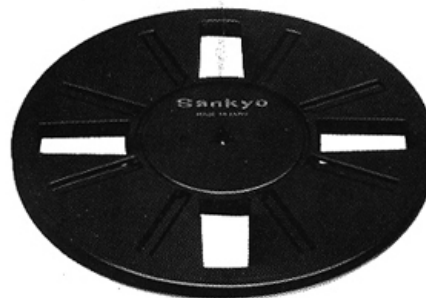
Cleaning brush



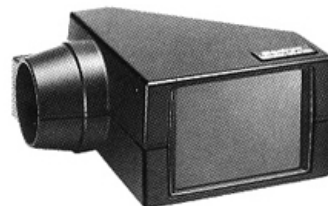
Stereo headphones SPH-801

OPTIONAL ACCESSORIES

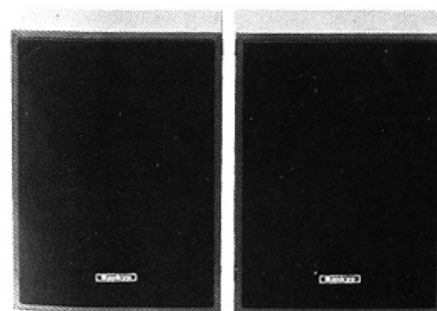
Highly recommended for fuller enjoyment of the Sankyo STEREO-800



Sankyo Auto Reel 240 m (800 ft)
SFL-861



Sankyo Viewer SVW-761
Handy for easy editing



Sankyo Sound Speaker Set SSB-161
Detachable single unit for easy transporting



Sankyo Condenser Microphone SMU-231
High quality electret condenser microphone



Sankyo Hi-Pro Zoom SLZ-261
High resolution zoom lens,
F1.0 f = 15 - 30 mm
For brighter, large-screen viewing

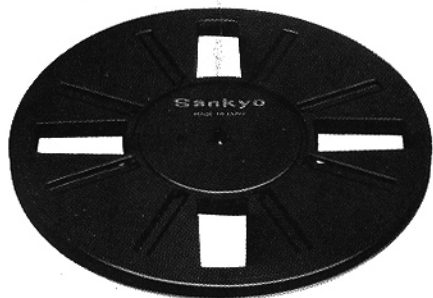


Sankyo Projector Carrying Case SCB-061
Also accommodating space for standard accessories

Design and specifications subject to change without notice.

OPTIONAL ACCESSORIES

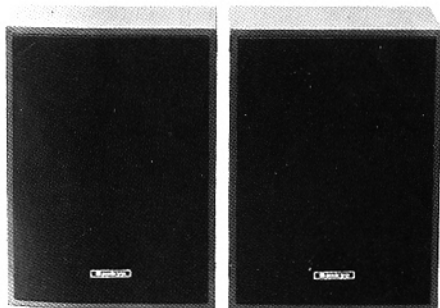
Highly recommended for fuller enjoyment of the Sankyo STEREO-800



Sankyo Auto Reel 240 m (800 ft)
SFL-861



Sankyo Viewer SVW-761
Handy for easy editing



Sankyo Sound Speaker Set SSB-161
Detachable single unit for easy transporting



Sankyo Condenser Microphone SMU-231
High quality electret condenser microphone



Sankyo Hi-Pro Zoom SLZ-261
High resolution zoom lens,
F1.0 f = 15 - 30 mm
For brighter, large-screen viewing



Sankyo Projector Carrying Case SCB-061
Also accommodating space for standard accessories

Design and specifications subject to change without notice.