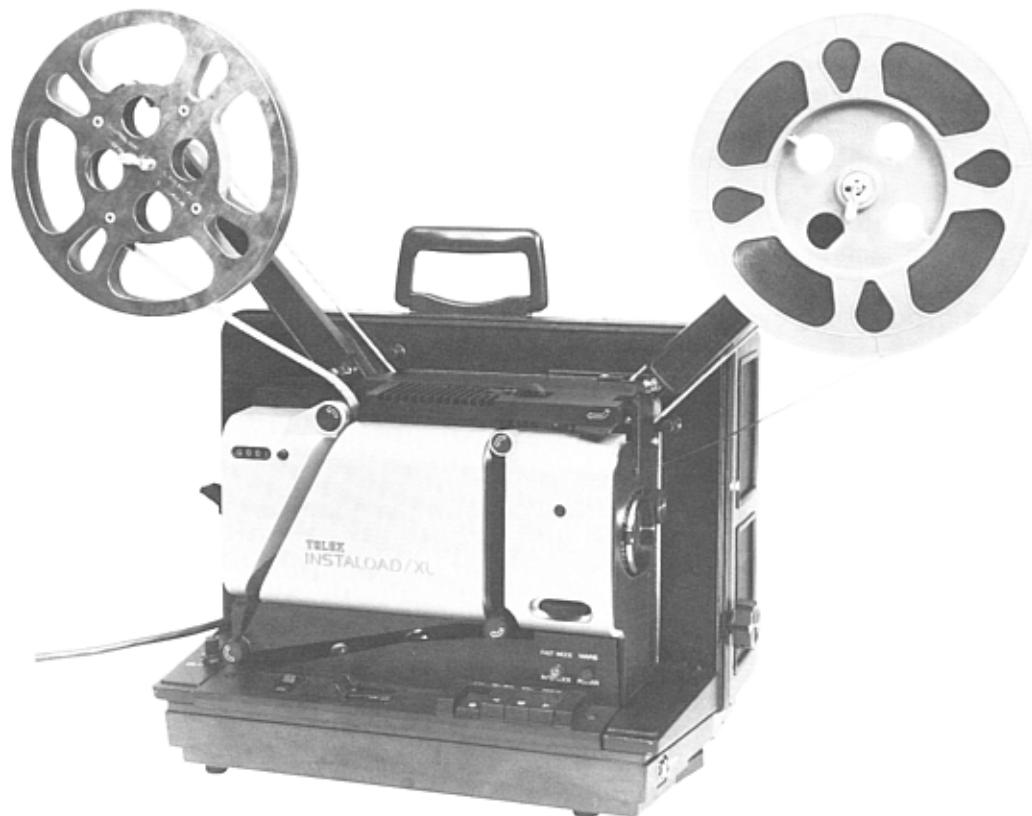


INSTA-LOAD™ XL 16 MM PROJECTORS SERIES 2200



OPERATOR INSTRUCTIONS

IMPORTANT SAFEGUARDS

When using the projector, basic safety precautions should always be followed, including the following:

1. Read and understand all instructions.
2. Close supervision is necessary when the projector is used by or near children. Do not leave the projector unattended while in use.
3. Care must be taken as burns can occur from touching hot parts.
4. Do not operate the projector with a damaged cord or if the projector has been dropped or damaged — until it has been examined by a qualified serviceman.
5. Do not let cord hang over edge of table or counter or touch hot surfaces.
6. If an extension cord is necessary, a cord with a suitable current rating should be used. Cords rated for less amperage than the projector may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
7. Always unplug projector from electrical outlet when not in use. Never yank cord to pull plug from outlet. Grasp plug and pull to disconnect.
8. Let projector cool completely before putting away. If cord storage area is not included on unit, loop cord loosely around the projector when storing.
9. To protect against electrical shock hazards, do not immerse this projector in water or other liquids.
10. To reduce the risk of electric shock, do not disassemble this projector, but take it to a qualified serviceman when service or repair work is required. Incorrect reassembly can cause electric shock when the projector is subsequently used.

SAVE THESE INSTRUCTIONS

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Model No. _____ Serial No. _____

Mfg Code _____ Purchase Date _____

For security purposes, record in this booklet the above information which is found on the data label on the bottom side of the projector.

INTRODUCTION

Thank you for selecting the Telex Insta-Load™ XL as your new 16 mm sound projector. The Telex quality engineering that is designed into your projector and your attention to periodic preventive maintenance will assure you of years of trouble-free performance. Please take the time to read this booklet. Become familiar with all of the many outstanding features of your new Telex Insta-Load XL, and you'll find the projector easy to operate and enjoy.

Make sure to keep this booklet handy, as you may want to refer to it from time to time.

™ Insta-Load is a trademark of Telex Communications, Inc.

MODEL FEATURES

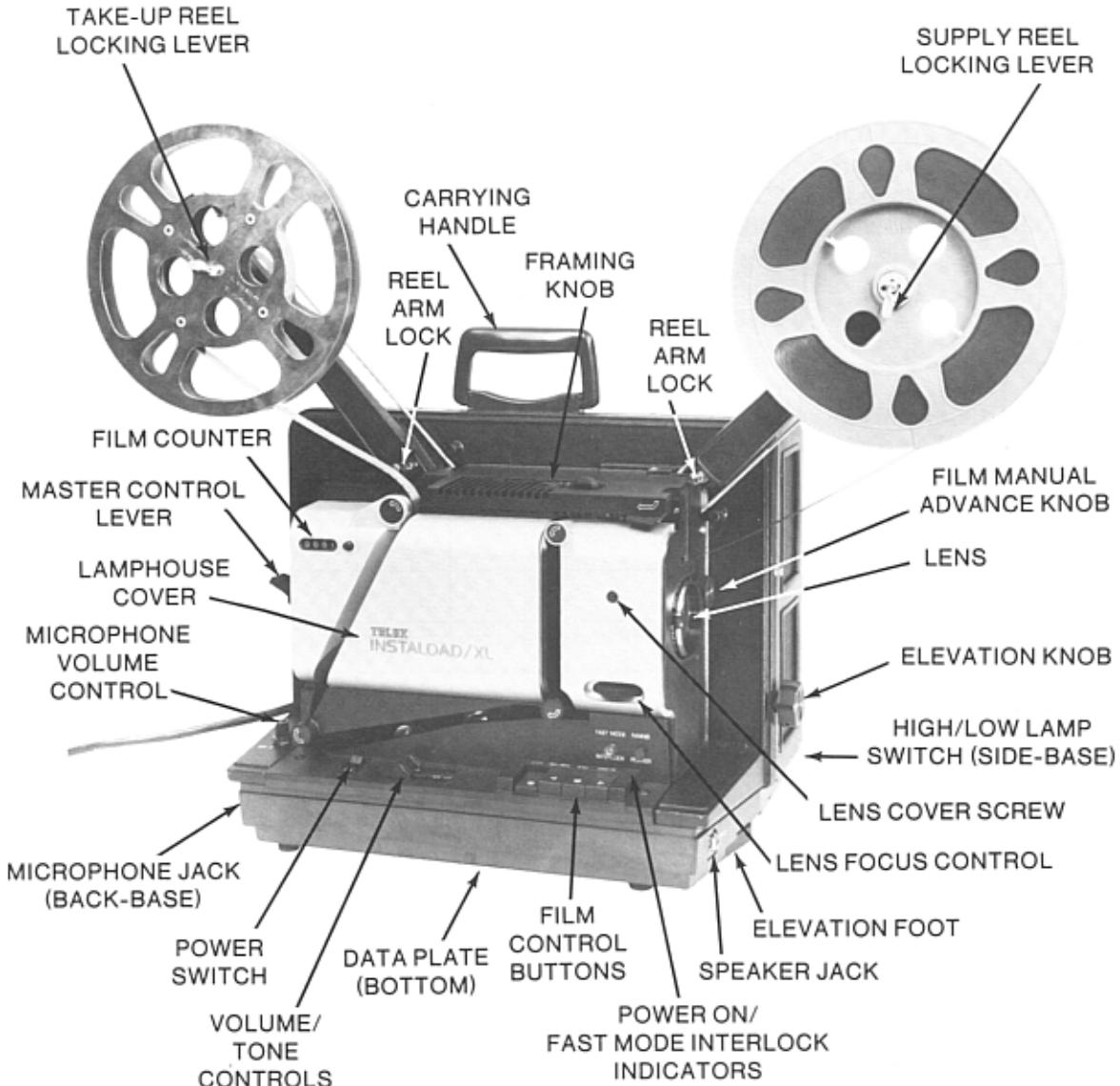
This booklet makes reference to projector features that are unique to certain models. Other models are included in the 2200 Series, but only nine models will be discussed. These nine models are provided with features that also exist in varying configurations with other models in the 2200 Series. Some of the distinguishing features are shown in the chart that follows. The model number of your projector appears at the bottom of the unit.

Series 2200 Projector Features

Model Number	Hi/Lo Lamp	Still Frame Project	Optical/Magnetic Sound	In-Path Fast Forward	Film Footage Counter	Mic Input	Xenon Lamp	Voltage Requirements	
								120	220/240
2210	X							X	
2211	X								X
2220	X	X						X	
2221	X	X							X
2251*	X	X	X						X
2270	X	X		X	X	X		X	
2271	X	X		X	X	X			X
2280		X		X	X	X	X	X	
2281		X		X	X	X	X		X

*The Model 2251 quickly converts to a different line voltage and frequency for use as a domestic projector.

REFERENCE GUIDE



Model 2270 Insta-Load XL 16 mm Projector

SETUP

CAUTION

Make sure that air flow to and from the ventilation slots on the projector is not blocked.

1. Position the projector according to the Screen Size Chart.

Screen Size Chart

Lens Focal Length	Screen Width in Inches/(Meters)*									
	40 (1.02)	50 (1.27)	60 (1.52)	70 (1.78)	84 (2.13)	96 (2.44)	108 (2.74)	120 (3.05)	144 (3.66)	168 (4.27)
	Projection Distance in Feet/(Meters)**									
5/8 in. (16 mm)	5.6 (1.71)	7.0 (2.13)	8.3 (2.53)	9.7 (2.96)	11.6 (3.54)	13.3 (4.05)	14.9 (4.54)	16.6 (5.06)	19.8 (6.04)	23.1 (7.04)
1.0 in. (25 mm)	8.9 (2.71)	11.1 (3.38)	13.3 (4.05)	15.5 (4.72)	18.6 (5.67)	21.2 (6.46)	23.9 (7.28)	26.5 (8.08)	31.7 (9.66)	37.0 (11.3)
1.5 in. (38 mm)	13.4 (4.08)	16.7 (5.09)	20.0 (6.10)	23.3 (7.10)	27.9 (8.50)	31.8 (9.69)	35.8 (10.9)	39.7 (12.1)	47.6 (14.5)	55.5 (16.9)
2.0 in. (50 mm)	17.9 (5.46)	22.3 (6.80)	26.7 (8.14)	31.0 (9.45)	37.2 (11.3)	42.4 (12.9)	47.7 (14.5)	53.0 (16.2)	63.5 (19.4)	74.0 (22.5)
2.5 in. (64 mm)	22.3 (6.80)	27.8 (8.47)	33.3 (10.1)	38.8 (11.8)	46.5 (14.2)	53.0 (16.2)	59.6 (18.2)	66.2 (20.2)	79.4 (24.2)	92.5 (28.2)
3.0 in. (75 mm)	26.8 (8.17)	33.4 (10.8)	40.0 (12.2)	46.6 (14.2)	55.8 (17.0)	63.7 (19.4)	71.6 (21.8)	79.4 (24.2)	95.2 (29.0)	111.0 (33.8)
4.0 in. (100 mm)	35.8 (10.9)	44.5 (13.6)	53.3 (16.3)	62.1 (18.9)	74.5 (22.7)	84.9 (25.9)	95.4 (29.1)	105.9 (32.3)	127.0 (38.7)	148.0 (45.1)

* Width of screen needed = 16 mm film aperture width (0.380-inch) multiplied by the projection distance (in inches) and divided by the lens focal length (in inches). Substitute millimeters for inches to obtain metric equivalents. The screen width-to-height ratio should be 1-1/3:1.

** Projection distances are measured from the projector film gate to the screen.

NOTE

The projector should be placed high enough to center the image without tilting the projector more than 12 degrees. Pictures at greater angles will exhibit excessive "keystone" effects.

2. Arrange viewing seats no closer to the screen than three times the width of the picture.
3. Remove the projector cover.
4. Depress the STOP film control button.

SUPPLYING POWER

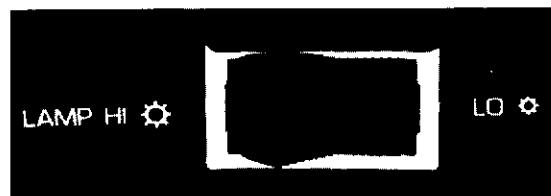
1. Plug all domestic models into a 120-volt ac power source.
2. Plug all international models into a 220/240-volt ac power source.

NOTE

Power cords for international models must be user-supplied or ordered from Telex (catalog number 2990). The Telex cord is supplied with a plug on one end which matches the receptacle on the projector base and three wires on the other end stripped for connection to the correct mains or line plug. The wires are color-coded as follows: green and yellow (earth), blue (neutral), and brown (live).

(Except Models 2280/81)

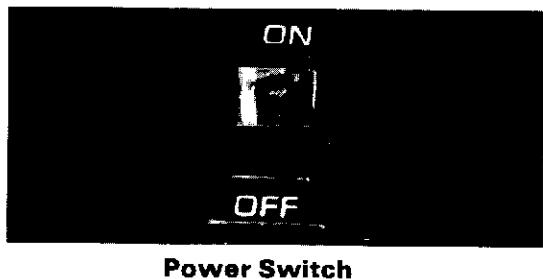
1. Set the LAMP switch to LO (low) for normal lighting and extended lamp life.
2. Set the LAMP switch to HI (high) if greater brightness is desired.



Lamp Switch

(Models 2270/71)

Set the power switch to ON. The red MAINS POWER indicator above the film control buttons will light.



Power Switch

(Models 2280/81)

1. Position the projector on top of the arc lamp power supply, and plug it into the large 6-pin receptacle on the end.
2. Set the power, lamp, and douser switches to ON.

NOTE

To cool the lamp without running the projector, turn the lamp switch OFF and press the FAN button with the power switch ON.

FILM THREADING

1. Attach the take-up reel as follows:
 - a. Swing the take-up reel arm up until it locks in position.
 - b. Place an empty take-up reel on the take-up reel arm spindle.
 - c. Snap the reel locking lever back to captivate the take-up reel.
2. Attach the supply reel as follows:
 - a. Swing the supply reel arm up until it locks in position.
 - b. Place the film supply reel on the supply reel arm spindle with the film feeding forward (film perforations facing outward toward operator).
 - c. Snap the reel lock lever back to captivate the supply reel.

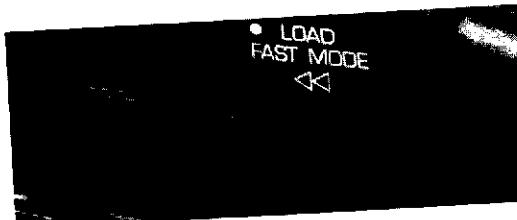
3. Thread the film as follows:

- a. Set the master control lever in the LOAD (down) position.
- b. Take the end of the film leader between the thumb and index finger of one hand, and pull it along the film path (which is easily discerned by the routing arrows on the projector).

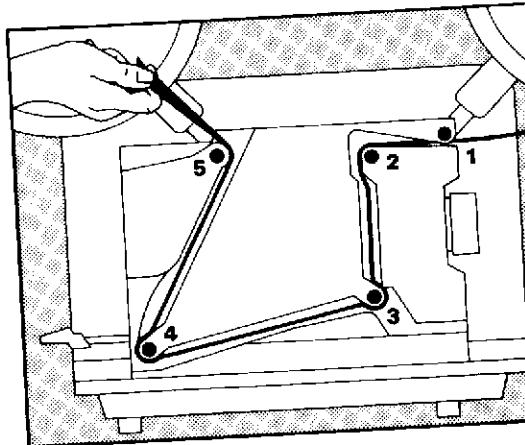
NOTE

Keep the film taut as it is routed along the film path.

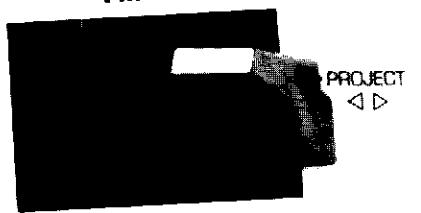
- c. Insert the film leader into the hub of the take-up reel and turn the reel several times in the clockwise direction to remove slack and secure the film leader.
- d. Set the master control lever in the PROJECT (up) position.
- e. Check for proper threading by turning the manual advance knob in the clockwise direction.



**Master Control Lever
(in LOAD position)**



Film Threading Sequence



**Master Control Lever
(in PROJECT position)**

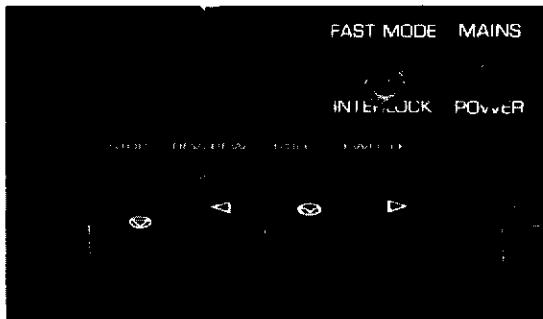
(Model 2251)

1. Place the OPT/MAG control in the OPT position when playing optical sound film. (This holds the magnetic head away from the film and turns on the exciter lamp.)
2. Place the OPT/MAG control in the MAG position when playing magnetic sound track film. (This allows the magnetic head to contact the magnetic sound track film and turn the exciter lamp off.)

OPERATION

FOCUSING/FRAMING

1. With power applied and the projector master control lever in the PROJECT position, press the FWD (forward) button to advance the film to a projected picture.
2. Focus the image by turning the FOCUS control.
3. If a black strip (frame line) appears at the top or bottom of the screen, rotate the FRAME knob until the frame line disappears.



Film Control Buttons

ELEVATION

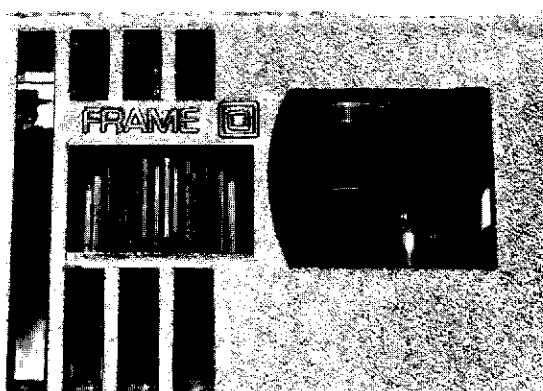
1. Turn the elevation knob clockwise to raise the image on the screen.
2. Turn the elevation knob counter-clockwise to lower the image on the screen.



Lens Focus Control

VOLUME AND TONE

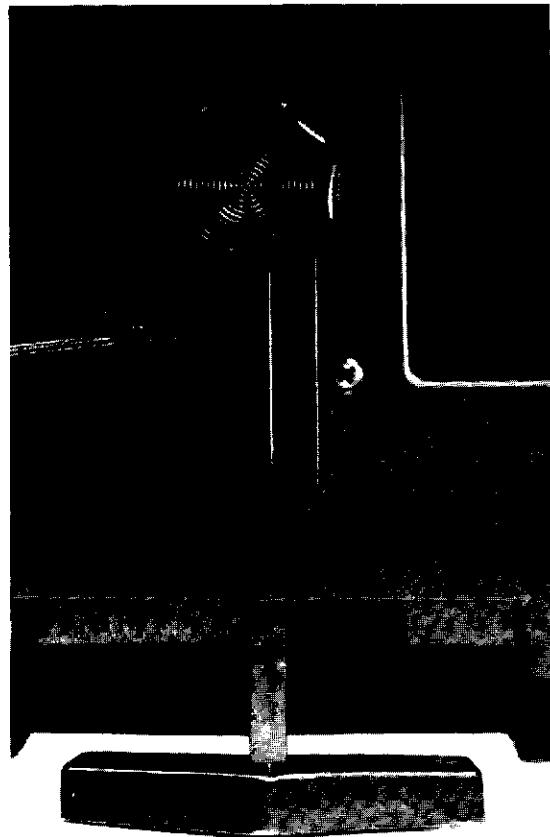
1. Slide the VOL (volume) control to the right to increase volume.
2. Slide the TONE control to the left or right for the desired tonal quality.



Framing Knob

NORMAL REVERSE

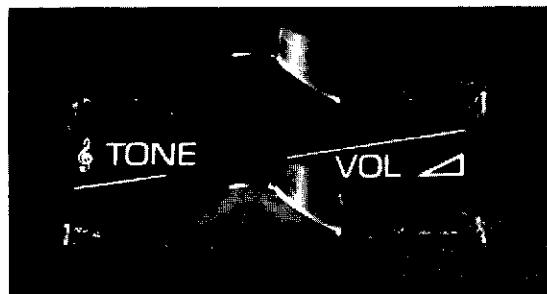
1. With the master control lever in the PROJECT position, press the STOP button.
2. Press the REV/REW (reverse/rewind) button to run the film back as far as desired. (The sound is muted in reverse.)
3. Press the STOP button to discontinue reverse motion.
4. Press the FWD button to resume film operation.



Elevation Knob and Foot

To return quickly to previously projected scenes or to rewind the film "in-path":

1. Press the STOP button before the film leaves the supply reel.
2. Set the master control lever to the FAST MODE position.
3. Press the REV/REW button for fast mode reverse/rewinding.
4. Press the STOP button to discontinue reverse motion.



Volume and Tone Controls

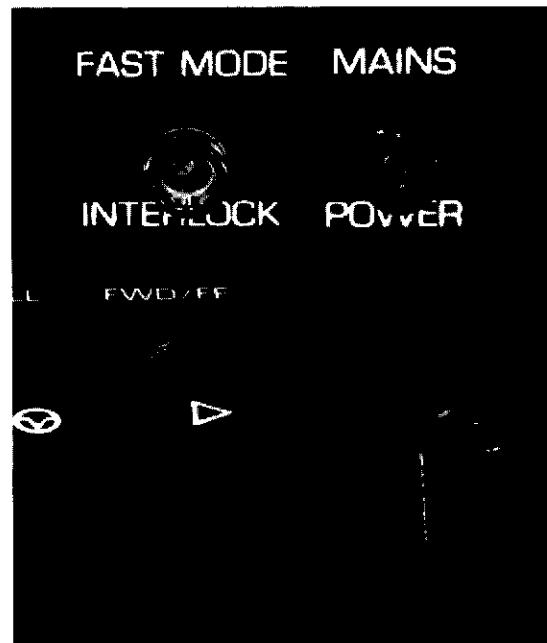
To resume projection:

1. Move the master control lever to the PROJECT position.

NOTE

It will be impossible to raise the master control lever to the PROJECT position on projectors that have the "fast-forward" feature until the FAST MODE INTERLOCK light just above the FWD/FF (forward/fast forward) film control button turns off.

2. Check for proper film threading by turning the manual advance knob in the clockwise direction.
3. Press the FWD (forward) button to resume normal projection.



Fast Mode Interlock Indicator

REEL-TO-REEL REWINDING

NOTE

It is not necessary to switch reels or to move reel arms when rewinding from the take-up reel to the supply reel.

1. Attach the loose end of the film from the take-up reel directly to the empty supply reel, and turn the supply reel counterclockwise several revolutions to secure the film to the reel.
2. Set the master control lever to the FAST MODE position.
3. Press the REV/REW (reverse/rewind) button to return the film to the supply reel.
4. Press the STOP button when the film has been completely rewound.

FAST FORWARD

(MODELS 2270/71, 2280/81)

The "fast-forward" feature permits rapid forward movement of the film to a predetermined spot. The film counter permits accurate measurement of film footage.

1. Depress the STOP button.
2. Set the master control lever to the FAST MODE position.
3. Press the FWD/FF (forward/fast forward) button and observe the film counter. (The projection lamp is off and the sound is muted when running in the fast-forward mode.)
4. Press the STOP button a few feet before the desired footage reading is reached. (The momentum of the projector will carry the film to approximately the right point.)
5. Move the master control lever to the PROJECT position after the "fast-mode" interlock light (above the FWD/FF button) goes out.

NOTE

It will be impossible to lift the master control lever to the PROJECT position until the FAST MODE INTERLOCK light goes out.

6. Check for proper film threading by turning the manual advance knob in the clockwise direction.
7. Press the FWD/FF button to resume normal projection.

STILL PROJECTION

(Except Model 2210)

To stop the film for "still" projection of one frame:

1. Press the STILL film control button with the master control lever in the PROJECT position.
2. If only part of the picture appears on the screen, rotate the manual advance knob until a full picture appears.

3. If necessary, focus again for maximum sharpness.

NOTE

Brightness will be reduced because the safety shutter holds back some light.

To resume normal projection:

1. Press the FWD/FF (forward) button.
2. Adjust the FOCUS control.

ENDING THE SHOW

1. Rewind the film to the supply reel, and depress the STOP button.
2. Set the power switch to OFF (Models 2270/71 and 2280/81).
3. Set the lamp and douser switches to OFF (Model 2280/81).
4. Unplug the projector from the arc lamp power supply (Models 2280/81).
5. Unplug the projector from the ac power source.

STORAGE

1. Remove the supply and take-up reels, and lower the reel arms.
2. Retract the elevation leg.
3. Place the power cord in the projector storage compartment.
4. Assemble the projector cover to the projector.

FILM FOOTAGE COUNTER

(Models 2270/71, 2280/81)

The counter measures film footage and works in reverse as well as forward. Thus, you can return to the beginning of the scene by running the projector in reverse or fast forward until the desired number in the counter window has been reached.

If you are previewing for a later presentation, use the counter numbers to plan your program.

1. Always set the counter to zero (0000) at the beginning of the film.
2. Run the projector in the fast mode and watch the counter.
3. Press the STOP button shortly before the desired footage number is reached.



Film Footage Counter

The lead footage will vary slightly depending on the size and amount of film on one reel, but this will be only a few seconds of projection time. With some experience, you will soon be able to stop the fast forward or reverse travel at the desired point.

MICROPHONE USE

(Models 2270/71, 2280/81)

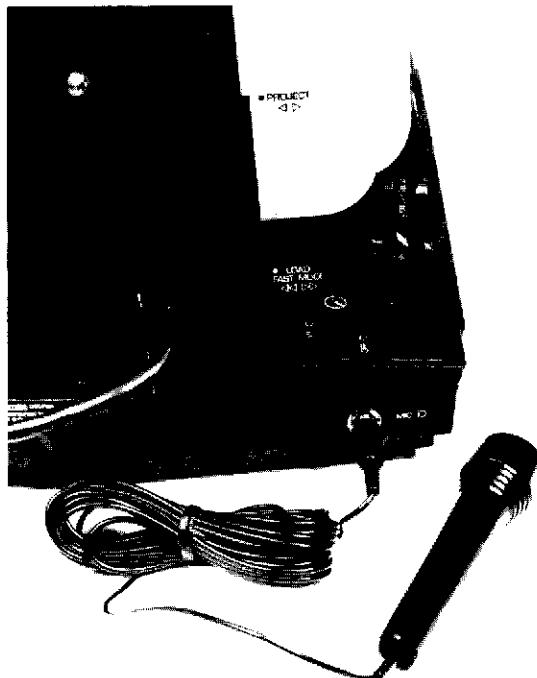
A 400-ohm microphone (Telex part number 46262-P1) with a standard 1/4-inch (6.35 mm) phone plug is supplied with the projector.

To use the microphone to talk over the sound on film:

1. Run a film with a sound message.
2. Plug the microphone into the MIC jack.
3. Turn the MIC volume control on and adjust the level to be heard over the film sound message.

To use the microphone with the projector as a PA system:

1. Press the STOP button on the projector.
2. Turn the power switch ON.
3. The microphone can be used with the internal speakers in the projector. If an external speaker (Telex catalog number 2238) is desired, plug the speaker into the SPKR (speaker) jack.
4. Plug the microphone in the MIC jack.
5. Adjust the MIC volume control for a comfortable listening level.



Microphone Connection

MAINTENANCE

COVER REMOVAL/REPLACEMENT

Operator maintenance procedures sometimes require removal of the two covers on the operator side of the projector. To remove and replace covers:

WARNING

Always disconnect the power cord prior to removal of the covers.

Lens Cover

1. To remove the lens cover, position the master control lever to LOAD, loosen the captive lens cover screw, and pull the cover outward.
2. To replace the lens cover, position the lens cover, and tighten the lens cover screw.

Lamphouse Cover

1. To remove the lamphouse cover, position the master control lever to LOAD, pull out on the "film routing" knobs (with directional arrows) at the base of the cover, and lift up and out on the cover.

NOTE

On Models 2280/81, this releases an interlock switch which disables the projector lamp.

2. To replace the lamphouse cover, align the top of the cover so the two clips on the projector are visible through the widest grille openings. Press down on the cover to engage the clips, and push both knobs of the cover toward the projector until the cover snaps into the locked position.

CLEANING

Film Gate Area

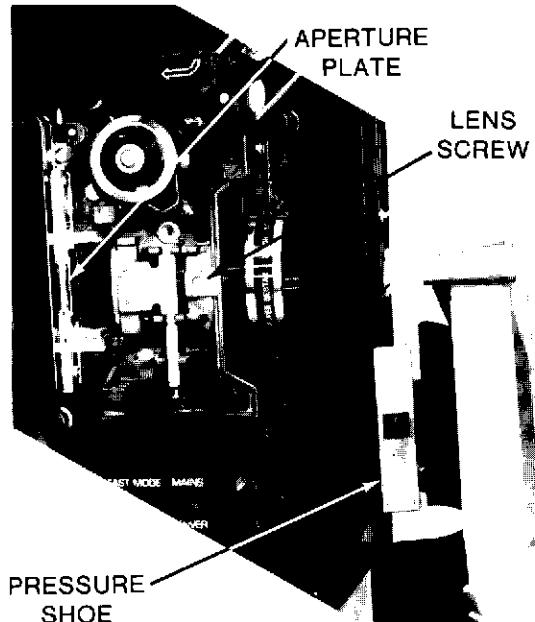
The film gate should be cleaned periodically (if used regularly, a weekly cleaning is recommended). To clean the film gate:

1. Remove the lens cover.
2. Thoroughly clean the pressure shoe (which is connected to the removed lens cover) using the aperture brush (Telex catalog number 3694) dampened with a suitable solvent such as isopropyl alcohol.

CAUTION

Take care not to scratch the polished surfaces of the pressure shoe and aperture plate with the metal shaft of the aperture brush.

3. Thoroughly clean the aperture plate using the aperture brush dampened with a suitable solvent such as isopropyl alcohol.
4. Replace the lens cover.



Cleaning Film Gate Area

Lens

The lens should be cleaned periodically. To clean the lens:

1. Remove the lens cover.
2. Remove the lens by loosening the lens screw and rotating the lens focus thumbwheel to the left (clockwise).

3. Remove dust from the front and rear lens surfaces by gently brushing with a soft brush.
4. Wipe the lens gently with a clean lens tissue (slightly moistened with lens cleaner if necessary).

CAUTION

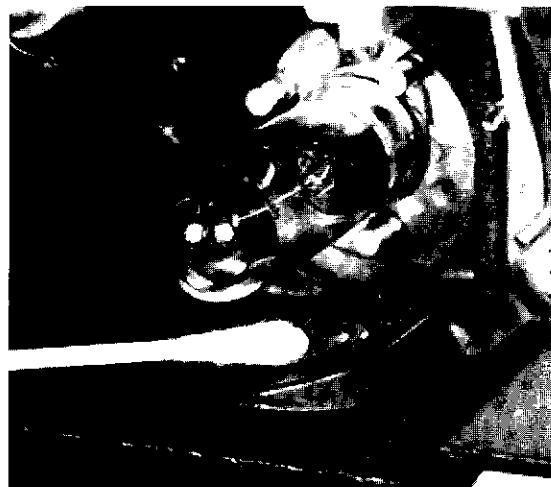
Do not use silicon-impregnated eyeglass tissues on coated projection lenses.

5. Replace the lens in the projector by rotating the lens focus thumbwheel to the right (counterclockwise) until the thumbwheel can be rotated no longer and the lens is fully retracted.
6. Tighten the lens screw. (The screw retains the lens in a captive range.)
7. Replace the lens cover.

Sound Optics

The sound optics should be cleaned periodically (if used regularly, a weekly cleaning is recommended). To clean the sound optics:

1. Remove the lamphouse cover.
2. Moisten a cotton swab with isopropyl alcohol, and clean the dust off of the top lens (just below the exciter lamp).
3. Replace the lamphouse cover.



Cleaning Sound Optics

LAMP REPLACEMENT

Projection Lamp (Except 2280/81)

1. Remove the lamphouse cover.

WARNING

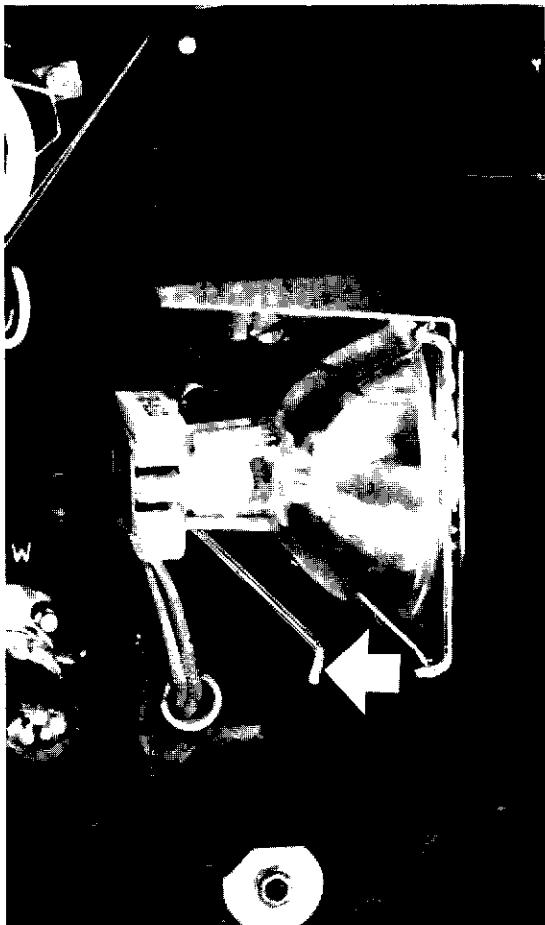
Allow the lamp to cool prior to replacement.

2. Pull back on the lamp release lever to remove the defective lamp, and return the release lever to the original position.
3. Position a new ELC-type lamp (Telex part number 42762-P4), and push it carefully into the lamp receptacle. The lamp reflector rim must be fully seated in the recess of the lamp socket frame.

CAUTION

Handle the lamp by the base and/or outside of the reflector, as skin oils will discolor the reflector and reduce lamp life.

4. Replace the lamphouse cover.



Projection Lamp Replacement

Projection Lamp (Models 2280/81)

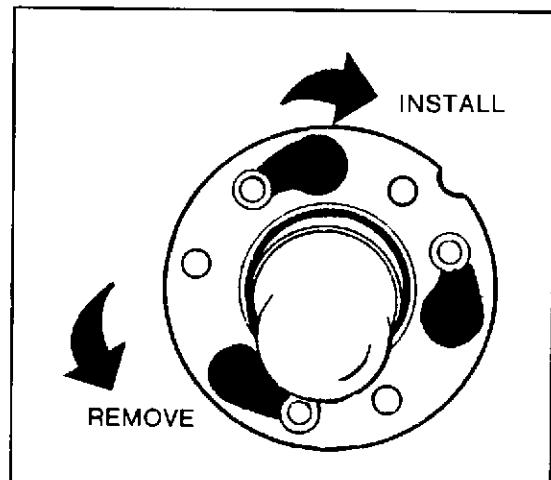
1. Remove the lamphouse cover.
2. Check the fuse in the lamp power supply before replacing the lamp. Replace if necessary.
3. If the fuse is good, remove the defective lamp by unplugging the lamp, drawing the lamp shield off its support rod, holding the lamp retainer clip away from the lamp, and lifting the lamp out of the lamp holder.
4. Install the new lamp (Telex part number 46554-P1) with the longer wire terminal away from the projector and the lamp seated all the way down in the holder.
5. Replace the lamp house cover.

CAUTION

Be careful not to pinch the lamp wires between the cover shield and the main casting of the projector.

Exciter Lamp

1. Remove the lamphouse cover.
2. Turn the lamp counterclockwise. (It will turn more easily if the lamp is rocked or wiggled rapidly from side to side).
3. To replace the lamp, align the three slots in the new BSW-type lamp (Telex part number 38386-P2) with pins in the socket, push lamp inward, and turn clockwise to lock in place.
4. Wipe the lamp clean to remove fingerprints.
5. Replace the lamphouse cover.



Exciter Lamp Replacement

REEL BELT REPLACEMENT

1. Disconnect the hooked ends of the old belt, pull the belt out, and discard.

NOTE

Replace old belts with Telex belts only: supply arm belt (part number 42981-P1), and take-up arm belt (part number 42981-P2). The supply arm belt is approximately 20% inches long, and the take-up arm belt is approximately 24 inches long.

2. Push one end of the new belt through the projector opening on the inner side of the reel arm into the groove of the lower pulley until it appears through the opening on the other side of the reel arm. (When replacing the take-up arm belt, the master control lever must be in the LOAD position.)
3. Hook the two ends together, and route the belt around the upper pulley.

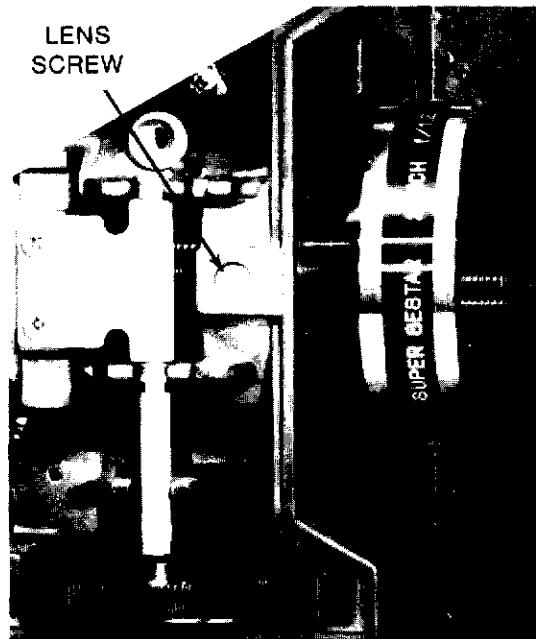


Reel Belt Replacement

LENS REPLACEMENT

Install a lens replacement in the projector as follows:

1. Remove the lens cover.
2. Loosen the lens screw through approximately four counterclockwise turns.
3. Remove the existing lens from the projector by rotating the lens FOCUS thumbwheel to the left (clockwise).
4. Insert the replacement lens into the projector and rotate the lens FOCUS thumbwheel to the right (counter-clockwise) until the thumbwheel can be rotated no longer and the lens is fully retracted.
5. Tighten the lens screw. (The screw retains the lens in a captive range.)
6. Replace the lens cover.



Lens Replacement

FILM CARE PRECAUTIONS

1. Never pull the film tight on the reel because the emulsion may become scratched with "cinch" marks. (The projector rewinds film with just the right amount of tension.)
2. For storage and film protection, secure the loose end of film with masking tape. To form a tab for easy removal, make a small loop with the masking tape (sticky side out), and place it about one inch from the end of the film.
3. Protect the film from dust by placing the reel in a storage can promptly after showing.
4. Store film cans away from heat.

FUSE REPLACEMENT

If it becomes necessary to change a fuse (international models only):

1. Unscrew the fuse, using a small flat-blade screwdriver.
2. Replace the defective fuse with a fuse rated for 3.5 amps, 250 volts (Telex part number 410-14).

LUBRICATION

The projector is factory-lubricated and needs only periodic maintenance. It is highly recommended that preventive maintenance be performed every 500 hours of operation or every 12 months (or sooner if the projector is used in an unusually dirty environment). The projector should be serviced by an authorized Telex projector service facility.

MALFUNCTIONS

MALFUNCTION

WHAT TO DO

Projector doesn't run.

Plug power cord into live outlet.

Depress FWD (forward) button completely.

Raise master control lever completely.

Check fuse (international models).

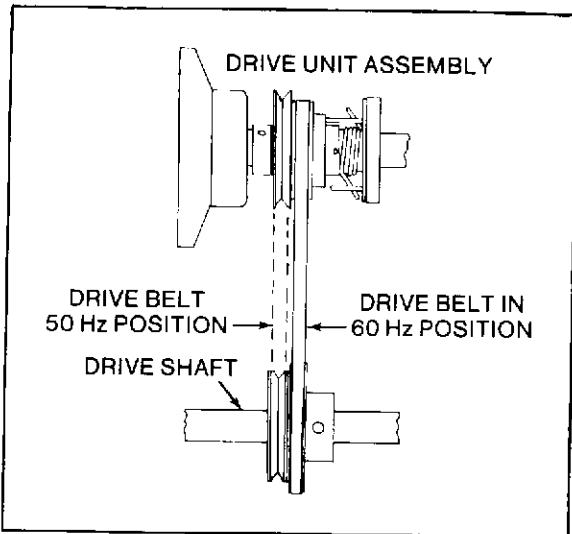
MALFUNCTIONS (CONT)

No picture on screen.	Raise master control lever completely.
	Replace projection lamp with ELC type.
	Set power switch to ON (Models 2270/71, 2280/81).
	Rotate manual advance knob (when operated in STILL mode).
Projected picture unsteady.	Check film for damage.
	Check for proper threading.
No sound.	Adjust volume control.
	Check OPT/MAG switch position (Model 2251).
	Replace exciter lamp with BSW type.
	Try another film.
Poor sound.	Check for proper threading.
	Try another film.
	Clean sound optics.
	Replace exciter lamp with BSW type.
Microphone doesn't work.	Insure that power is on.
	Turn microphone control on and adjust level.
	Insure that microphone plug is fully seated.
	Try another microphone.

INTERNATIONAL MODEL CONVERSIONS

International models are wired for 220/240-volt, 50 Hz operation. If the projectors are to be used with a 100- or 120-volt, 60 Hz power source, it will be necessary for a qualified technician to perform the following modification steps.

1. Disconnect the power cord from the power source.
2. Replace the 3.15-amp, 250-volt, time-lag fuse (Telex part number 410-14) with a 5.0-amp, FST time-lag fuse (Telex part number 410-20).
3. Change frequency by "rolling" the drive belt off the pulley into the alternate groove. (See Frequency Conversion.)
4. Make transformer wiring changes. (See Transformer Wiring Conversions.)



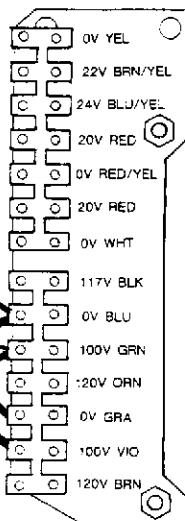
Frequency Conversion

TRANSFORMER WIRING CONVERSIONS

100-VOLT POWER INPUT

CONNECT MAINS TO

BLU
BRN
JUMPERS
BLU TO GRA
GRN TO VIO

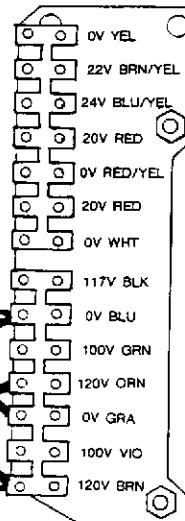


CHANGE LINE FUSE TO 5 AMP, FST, TIME LAG.

120-VOLT POWER INPUT

CONNECT MAINS TO

BLU
JUMPERS
BLU TO GRA
BRN
ORN TO BRN

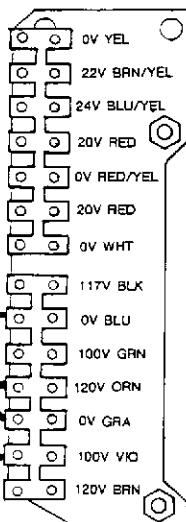


CHANGE LINE FUSE TO 5 AMP, FST, TIME LAG.

220-VOLT POWER INPUT

CONNECT MAINS TO

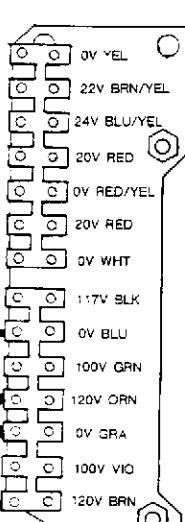
BLU
BRN
JUMPER
ORN TO GRA



240-VOLT POWER INPUT

CONNECT MAINS TO

BLU
JUMPER
BRN
ORN TO GRA



NOTE: OTHER WIRES AND CONNECTIONS ELIMINATED FOR CLARITY.

OPTIONAL ACCESSORIES

Description	Catalog No.
Lens Adapter	2900A
16 mm (5/8-inch), f/1.9 Lens	2906
25 mm (1-inch), f/1.9 Lens	2910
38 mm (1 1/2-inch), f/1.6 Lens, 1/2"	2915
50 mm (2-inch), f/1.2 Lens (standard)	2212
64 mm (2 1/2-inch), f/1.6 Lens	2925
75 mm (3-inch), f/2.0 Lens	2930
100 mm (4-inch), f/1.6 Lens	2940
Zoom Converter	2900Z
16D Lens Bracket (for anamorphic lens)	2901
16D Anamorphic Lens (wide screen)	2902
Lift-Off Speaker Cover	2238
Power Cord (for international models)	2990
Aperture Brush	3694
Dust Cover	2239
Service Instructions Manual	2200A
Parts Listing Manual	2200B

SERVICE

Sometime during the life of any projector, repair or adjustment may be required. When this becomes necessary, we suggest that you return the projector to the dealer from whom it was purchased or to one of the approved dealers shown in the Authorized Regional Warranty Service Stations directory which was packed with this projector.

We also maintain these factory service departments:

CENTRAL/WESTERN U.S. REGION:

Telex Communications, Inc.
West First Street
Blue Earth, MN 56013 U.S.A.
Phone: (507) 526-3205

EASTERN U.S. REGION:

Telex Communications, Inc.
1406 Bergen Blvd.
Ft. Lee, NJ 07024 U.S.A.
Phone: (201) 947-0666

CANADA:

Telex Communications, Ltd.
705 Progress Avenue, Unit 10
Scarborough, Ontario M1H-2X1 Canada
Phone: (416) 431-4975

For further information regarding these products, contact the Visual Product Sales Department at the following address:

HOME OFFICE:

Telex Communications, Inc.
9600 Aldrich Ave. So.
Minneapolis, MN 55420 U.S.A.
Phone: (612) 887-5531



TELEX COMMUNICATIONS, INC.

9600 Aldrich Ave. So., Minneapolis, MN 55420 U.S.A.