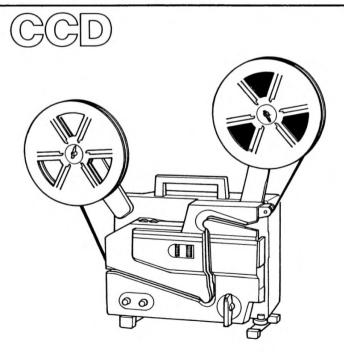


16MM FILM-TO-VIDEO CONVERTER

TRANSVIDEO 16

TRV-16 INSTRUCTION MANUAL



IMPORTANT SAFEGUARDS

When using your photographic equipment, basic safety precautions should always be followed, including the following:

- 1. Read and understand all instructions.
- Close supervision is necessary when any appliance is used by or near children. Do not leave appliance unattended while in use.
- 3. Care must be taken as burns can occur from touching hot parts.
- 4. Do not operate appliance with a damaged cord or if the appliance 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 appliance may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled.
- 7. Always unplug appliance from electrical outlet when not in use. Never yank cord to pull plug from outlet. Grasp plug and pull to disconnect.
- 8. Let appliance cool completely before putting away. Store cord in a manner provided.
- 9. To protect against electrical shock hazards, do not immerse this appliance in water or other liquids.
- 10. To avoid electric shock hazard, do not disassemble this appliance, but take it to a qualified serviceman when some service or repair work is required. Incorrect reassembly can cause electric shock hazard when the appliance is used subsequently.

SAVE THESE INSTRUCTIONS

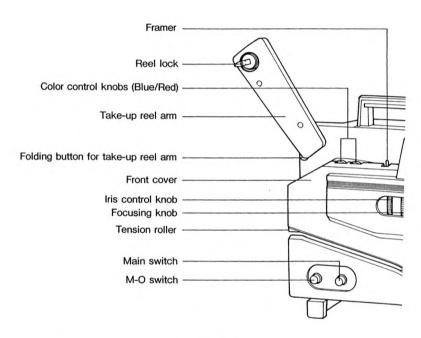
Thank you for your purchase of Elmo 16mm Film-to-Video Converter, TRANSVIDEO 16 (TRV-16). The TRANSVIDEO 16 is a self-contained film-to-video converter which permits direct transfer of 16mm film image into video signal.

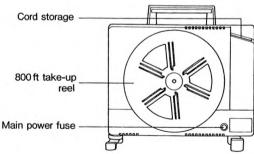
To efficiently use your TRANSVIDEO 16, be sure to read this entire manual for important and helpful information.

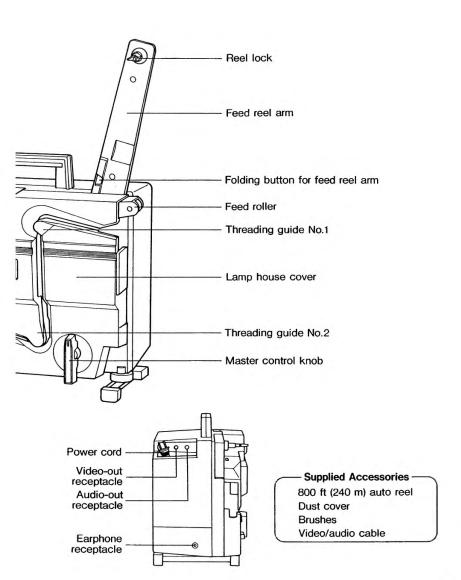
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MAJOR PARTS DESCRIPTIONS



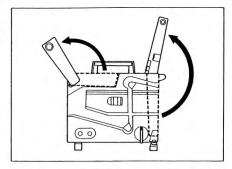




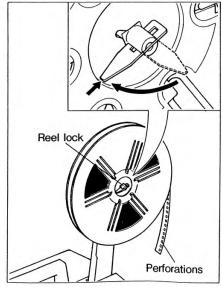
PREPARATION

SETTING-UP ·

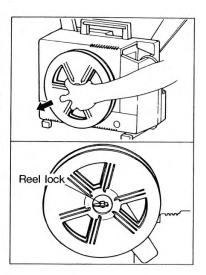
- 1 Set up the TRANSVIDEO 16 (TRV-16) on a sturdy support and connect the power cord, which is stored in the cord storage, to the AC electrical outlet.
- **2** Pull up the feed reel arm and the take-up reel arm to maximum stop positions.



Install the feed reel with film, facing the film perforations toward yourself, on the feed reel spindle, and turn down the reel lock to secure the reel.

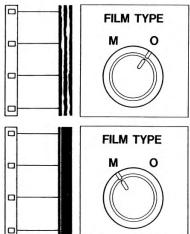


♣ Install the supplied 800 ft (240 m) take-up reel, which is stored on the rear of the TRV-16, or an optional reel of more than 800 ft (240 m) film capacity on the take-up reel spindle. Be sure to lock the reel by using the reel lock. The reel capacity is max. 2000 ft (600 m).



5 Set the M-O switch in accordance with the film to be converted.

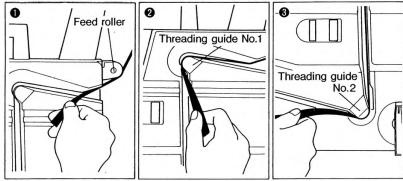
A) optical sound film

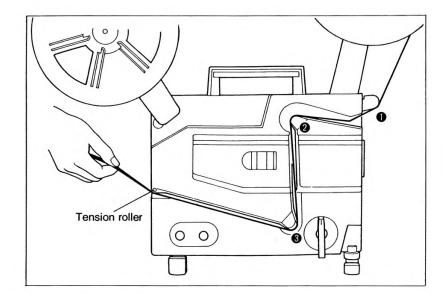


B) magnetic sound film

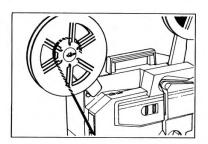
FILM LOADING

1 Hold the tip of the film leader between thumb and index finger — then pull the leader first through the feed roller, next over the No.1 and No.2 guides and finally over the tension roller.

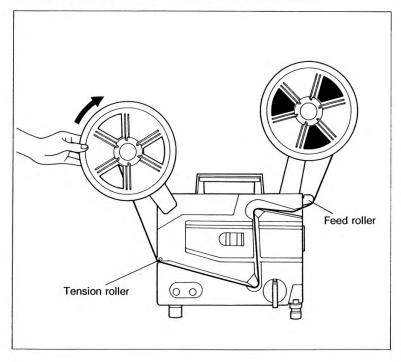




2 After film loading is complete, wind the leader on the take-up reel.



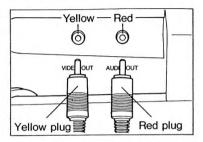
3 Make sure that the film is properly loaded through the channel by turning the take-up reel clockwise by hand to observe free movement.



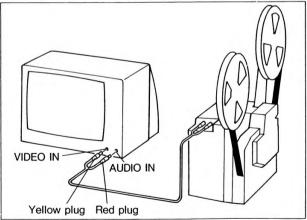
CONNECTION TO MONITOR TV-

Connect the TRV-16 and a monitor TV with the supplied video/audio cable.

1 Connect the yellow plug to VIDEO OUT (Yellow) and the red plug to AUDIO OUT (Red) receptacles of the TRV-16 respectively.

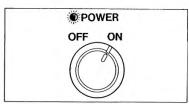


Connect the yellow plug to VIDEO IN and the red plug to AUDIO IN receptacles of a monitor TV respectively.



PLAYBACK ON MONITOR TV

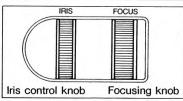
1 Turn on the main switch.



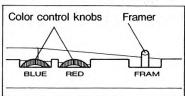
■ Turn the master control knob clockwise to , and then turn it further to to start playback of the film image on a monitor TV.



3 Adjust focus with the focusing knob and brightness with the iris control knob respectively.

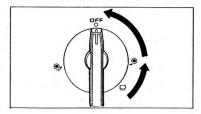


Adjust blue/red color tones with the color control knobs.
In case a frame line appears on a TV screen, adjust the framer to eliminate it.



5 When playback is over, turn the master control knob to OFF.

Note: Do not leave the knob in mid position (between 9 and OFF).

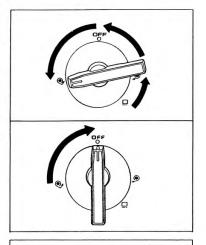


PLAYBACK ON MONITOR TV

QUICK REVIEW

This feature is convenient to see specific scenes you wish to review instantly. Turn the master control knob counterclockwise from ☐ all the way to ② , and the film is quickly rewound through the channel. Turn the master control knob to OFF as you get the desired section for review.

Note: Do not leave the knob in mid position (between <a> and OFF).



After making sure the film has stopped, turn the master control knob from OFF all the way to ☐ through ⑨. If the film slacken, wind up the loose portion by turning the take-up reel clockwise by hand, and then turn the master control knob.



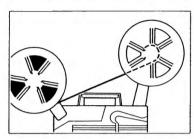
Note: (1) When the master control knob is set to from OFF, the TRV-16 may start rewinding after a few seconds' pause depending on the film volume on the reel to be rewound. This is not a fault but a safety mechanism for rewinding. The TRV-16 is designed to increase motor torque gradually for the protection of film.

(2) The 'Quick Review' functions for the film of upto 1600 ft (480 m) in length.

FILM REWINDING

When the playback is over, rewind the film as follows.

1 Insert the film end into the slot of the feed (front) reel hub.

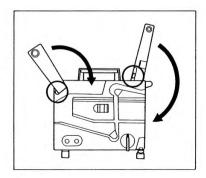


- 2 Turn the master control knob to ② .
- **3** After the film is completely rewound, turn the master control knob to OFF.
- 4 Remove reels.



STOWING

- O Turn off the main switch.
- O Return the power cord, video/audio cable to the cord storage.
- O Fold the feed and the take-up arms by depressing the white and the silver folding buttons respectively.



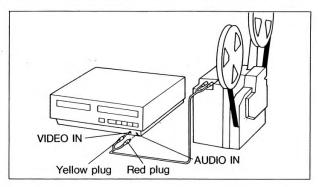
RECORDING WITH VCR

RECORDING

Connect the TRV-16 and a video cassette recorder (VCR) with the supplied video/ audio cable.

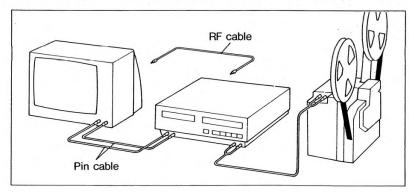
Connect the yellow plug and the red plug to VIDEO IN and AUDIO IN of VCR

respectively.



MONITORING WHILE RECORDING

Connect the TRV-16 to a VCR with the supplied video/audio cable as above. Connect the VCR to a monitor TV with a RF cable or video/audio pin cables.



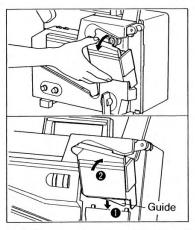
MAINTENANCE

Clean the film path and related parts periodically; accumulation of dust and film particles in the film gate may scratch the film and decrease the image quality.

REMOVING AND INSTALLING COVERS

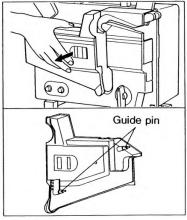
■ LAMP HOUSE COVER

To remove, hold the cover as per the illustration and pull it out toward yourself. To install, align the guides at the bottom and push the upper part of the cover into place as per the illustration.



• FRONT COVER

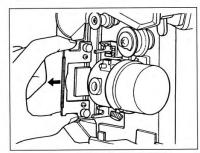
To remove, hold the cover as per the illustration and pull it out toward yourself. To install the cover, align two guide pins with the corresponding holes, and push the cover into position.



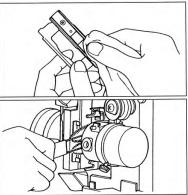
MAINTENANCE

CLEANING FILM GATE

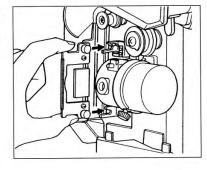
- 1 Remove the lamp house cover.
- Hold the pressure plate as per the illustration and pull it out toward yourself to remove.



3 Clean the aperture and the pressure plate with the supplied brush and a soft lint-free cloth.



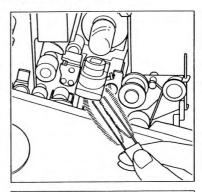
After cleaning, align the two pins at the upper and lower parts of the pressure plate holder with the corresponding slots on the pressure plate base and push it back.



CLEANING SOUND LENS, SOLAR BATTERY AND MAGNETIC HEAD

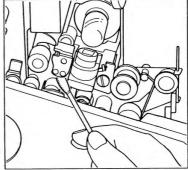
Optical Sound Playback

If dust adheres to sound lens or solar battery, the tone quality or volume will be decreased. Clean the sound lens and solar battery with the supplied brush.



Magnetic Sound Playback

Clean the magnetic head with a cotton swab.

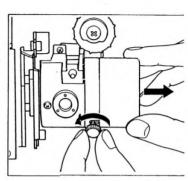


REPLACING LAMPS

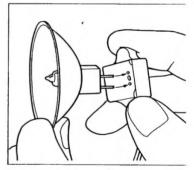
HALOGEN LAMP

Use ELMO JDR 6V-10W lamp.

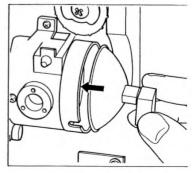
- 1 Remove the lamp house cover.
- 2 Remove the lamp holder by turning the attaching screw counterclockwise.



3 Remove the halogen lamp from lamp socket and insert a new lamp to the socket.



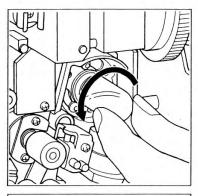
4 Install the lamp and then put the lamp holder and fix it with the screw.



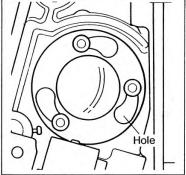
EXCITER LAMP

Use ELMO KE-040 4V, 0.75A or ANSI BRK lamp.

1 Remove the blown exciter lamp by turning its head counterclockwise.



To replace the exciter lamp, align three prongs on the socket with the holes on the lamp flange and turn the lamp head clockwise until it locks into place.



Note: It is advisable to keep a spare projection lamp and a spare exciter lamp handy for immediate replacement, should an unexpected break or burn-out develop during playback.

TROUBLE-SHOOTING HINTS

Q When the motor fails to operate;

A Check if the main switch is turned on.

A Check the power cord for proper connection.

When no playback picture is reproduced;

A Check if the iris control knob is not fully turned counterclockwise.

A Check the halogen lamp for blowout.

A Check the video cable for proper connection.

Q When no sound is reproduced;

A Check the audio cable for proper connection.

A Check the M-O switch for the correct position corresponding to the type of film used.

(Magnetic or optical sound)

A Check if the film is not silent one.

A Check the exciter lamp for blowout.

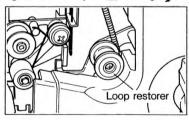
Q When the image quality cannot be properly focused;

A Check the film gate for proper position.

Q When the loop restorer operates continuously during projection;

This may result from the damaged perforations of several frames, which make the slack length of the film between two sprockets so short that no loop can be restored.

In such a situation, turn the master control knob to OFF and turn it again all the way to \square through \bigcirc .



WARNING:

Unauthorized recording of copyrighted films may infringe on the rights of copyright owners and be contrary to copyright laws.

SPECIFICATIONS

POWER -

Power source AC 120V 60Hz

Power consumption 150W

FILM TRANSPORTATION

Film 16mm optical/magnetic sound and silent films

Projection speed 24 fps

Film capacity 2000 ft (600m)

Film loading Elmo CHANNEL LOADING system

Film control One-knob control
Motor Synchronous motor
Shutter 5-blade shutter

Quick review Standard
Automatic loop restorer Built-in

VIDEO -

Television system NTSC compatible

 Image pick-up element
 CCD (Charge Coupled Device)

 Color tone control
 Preset with manual adjustment

 Video output
 1.0 Vp-p 75-ohm

 Resolution
 240 TV lines

 S/N ratio
 More than 46 dB

SOUND -

Playback system Optical/magnetic sound playback

Audio output 400 mV/600-ohm

Frequency response Optical...........50 Hz to 7KHz
Magnetic50 Hz to 12KHz

Monitoring 3.5mm receptacle provided

OPTICS -

Projection lens f/1.4, 25mm

 Iris adjustment
 Manual with fine adjustment

 Focusing
 Manual with fine adjustment

 Light source
 6V-10W Halogen lamp (Type JDR)

DIMENSIONS & WEIGHT

Dimensions 290 x 350 x 220 mm (11.4 x 13.8 x 8.7 in.)

Weight Approx. 12 kgs (26 lbs.)

^{*}Design and specifications are subject to change without prior notice.



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