



Sankyo **dualux** **2000H**

INSTRUCTION MANUAL

OUT STANDING FEATURES OF THE SANKYO dualux-2000H

1. Simple, One-Action Film Format Selector

The Sankyo dualux-2000H is a dual-format projector which can be adapted for the most effective screening of either Super 8, Single 8 or Regular 8 movie films merely by the 'one-action' setting of the Format Selector Knob.

2. Fully Automatic Reel-to-Reel Loading

As soon as the film tip is inserted into the Auto-Load Slot, the auto-load system takes over all chores and provides smooth, automatic threading all the way to the Take-up Reel.

3. Knob Controlled Still Projection

Still projection of any desired frame can be accomplished easily at any point during normal projection by merely turning the Speed Selection Knob.

4. Slow Motion Projection

Slow motion projection can be accomplished at any point also by turning the Speed Selection Knob.

5. Reverse Projection

The Sankyo dualux-2000H features a simple, fool-proof provision for reverse projection to enable repeat performance of any desired scene or for producing comic effects.

6. Extremely Bright Halogen Lamp

EFP

The 12V 100W Halogen Lamp with Cold-Mirror Reflector used in the Sankyo dualux-2000H enables you to project more brilliant picture images on the screen.

7. Ultra-Fast Zoom Lens

Turning the Zooming Ring provides smooth variation of focal length from 15mm to 25mm for versatile adjustment of the size of the projected image without altering the projector-to-screen distance. The Zoom Lens, moreover, produces sharp and clear images throughout its zooming range.

8. Rapid Film Rewind

The Rapid Rewind Lever permits film rewinding with a minimum loss of time and comes in handy if a series of film reels are to be screened in succession.

9. Versatile Speed Control

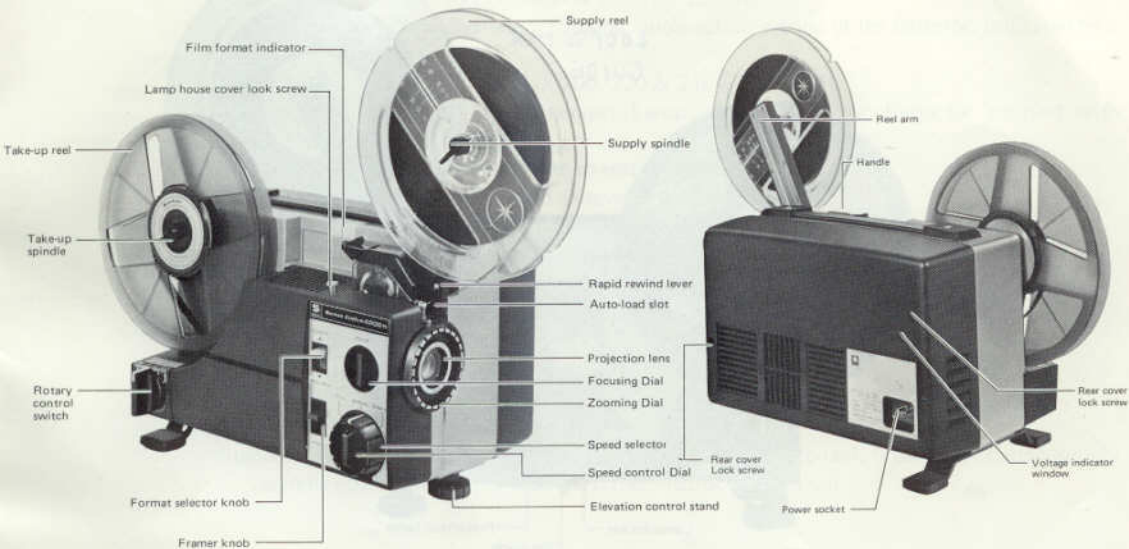
Because the speed control is of a continuously variable type providing fine adjustment, movie performance can be conducted at the correct speed at all times, even under line voltage fluctuation.

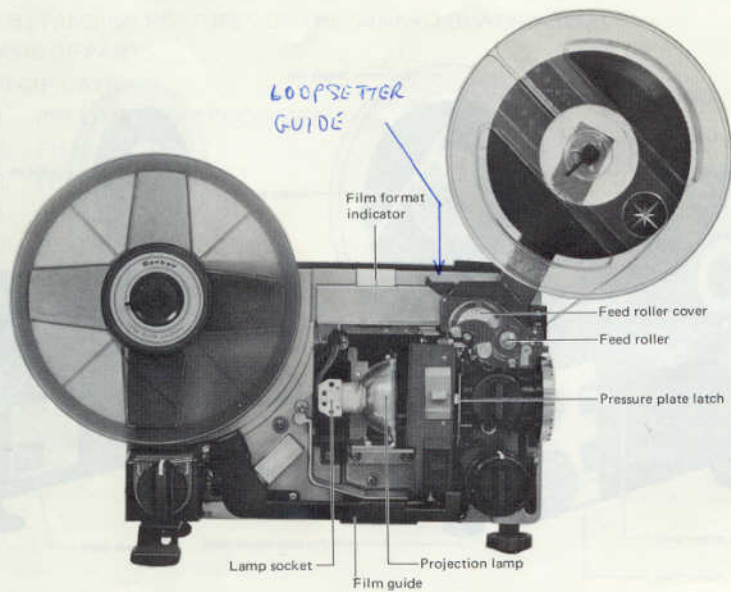
10. Compact, Appealing Design

To assure utmost convenience and lasting pleasure in movie performance, all up-to-date systems are incorporated in a handy, compact body with an appealing design.

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NAME OF PARTS





SPECIFICATIONS

Film Format: Super 8, Single 8 and Regular 8

Projection Lens: Sankyo Zoom F/1.4 15mm – 25mm

Film Format Selection System: Through single-action setting of the Selector. Indicated by a Pilot Lamp.

Power Source: AC 110, 125, 160, 200, 220 & 240V/50 or 60Hz

Projection Lamp: 12V 100W Halogen Lamp with Cold-Mirror Reflector coupled with pre-heating circuit **EFP**

Film Loading: Fully automatic reel-to-reel threading

Film Run: Permits either forward or reverse projection

Still Projection: By Speed Selection Knob

Slow Motion Projection: By Speed Selection Knob (5 – 7 fps.)

Normal Projection Speeds: Continuously variable over the range of 14 to 22 fps.

Motor: AC series motor

Rapid Rewind: Push-pull lever

Reel Capacity: Up to 120m (400 ft)

Dimensions: 267 x 182 x 160mm (10-1/2 x 7-1/8 x 6-1/4 inches)

Weight: 5.5kg (12 lbs approx.)

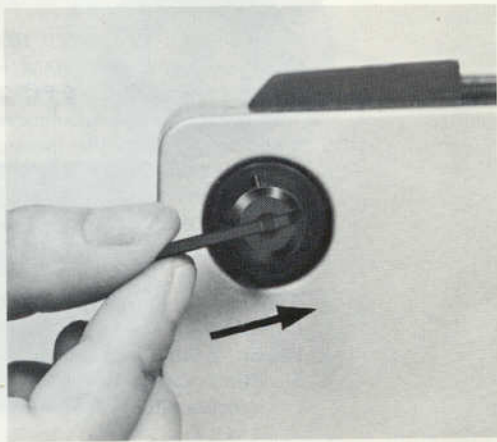
Standard Accessories: Vinyl cover, power cord, 400ft auto-reel, brush, film cutter, supply spindle adapter for Super 8/Single 8 reel, instruction manual

1. PRELIMINARY PROCEDURE

- A. 1) If your Sankyo dualux-2000H is supplied with a detachable AC cord, firstly connect one end to the power socket on the body and then plug the other end into a mains outlet.
- 2) If your projector has a non-detachable AC cord simply plug it into a mains outlet.
- 3) When the projector is connected to mains electricity, the Film Format Indicator will be lit up and the Projection Lamp pre-heated.



- B. Set the Sankyo Auto-Reel on the Take-up Spindle. After folding out the Hinged Reel Holder, insert the Auto-Reel by matching the slot on its spindle hole with the key on the spindle. Then, fold the Reel Holder back to its original position.



- C. Place the film reel on the Supply Spindle. (Follow the same procedure as in setting the Auto-Reel.)

D. Supply Spindle.

When setting a Super 8 or Single 8 film reel, see that the Super 8/Single 8 adapter supplied as a standard accessory is placed over the Supply Spindle.

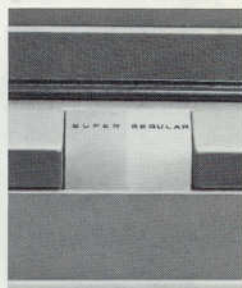
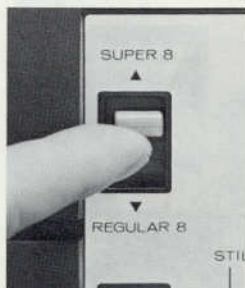
If Regular 8 films are to be projected, remove the Supply Spindle Adapter and place it correctly in the adapter holder inside the Lamphouse.

The Super 8 and Single 8 reels have a spindle hole of a larger diameter than Regular 8 reels, and therefore the supply spindle adapter must be placed over the Supply Spindle when using these films. The use of a similar adapter on the Take-up Spindle is not required since the Sankyo Auto-Reel with a capacity of 400ft can be used for projection of films of all types.



- E. Set the Format Selector Knob according to the type of 8mm film being used (Super 8, Single 8 or Regular 8). When a Super 8 or Single 8 film is to be threaded, push up the Knob. In case of a Regular 8 film, push it all the way down.

This simple manipulation of the Knob sets your Sankyo dualux-2000H for the smooth projection of film of either type. The Pilot Lamp of the Film Format Indicator lights up and indicates whether the Format Selector Knob is set correctly.



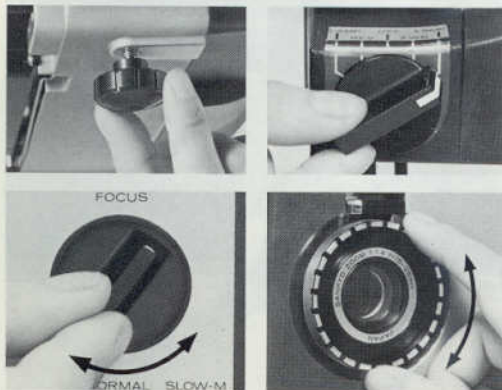
F. Adjust the Elevation Stand to adjust height.

Set the projector at a height so that its Lens points at the center of the screen.

Then, turn the Rotary Switch to "LAMP" setting and turn the Focusing Knob until the outline of the rectangular shape on the screen appears clearly defined. After this, rotate the control for fine adjustment to center the light pattern properly on the screen.

G. Adjust the size of the projected image.

Turn the Zooming Ring with your fingertip and make the required adjustment of the image size.



H. The SANKYO dualux-2000H features an auxiliary shutter system which is set automatically into position to prevent any possibility of heat-damage to the last few frames of the film. Even if the lamp is turned on, therefore, the rectangular image will not be projected on the screen unless the film is threaded properly.

Note:

This Auxiliary Shutter retracts automatically from the optical path when the Loopsetter Guide is firstly depressed and the Lamp is turned on.

To make height adjustment or to determine the size of the projected image by projecting the light shape on the screen, the above procedure can be followed. Make sure the Loopsetter Guide is pushed all the way down. If the Loopsetter Guide is depressed after the Lamp is turned on, the Auxiliary Shutter will not retract. In this case, turn the Rotary Switch back to "FWD" and then perform the above operation.

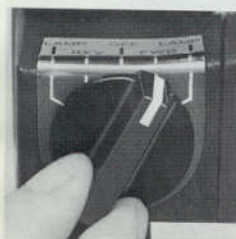
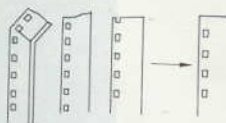
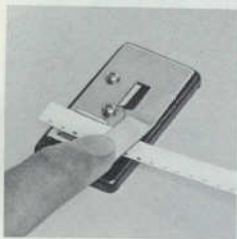
Caution:

1. See that the Lens Cap is removed.
2. Make sure the Format Selector Knob is set properly. Failure to make the required adjustment will hamper the smooth running of the film through the projector.
3. Check that the Rapid Rewind Knob is pushed in. Film loading or reverse projection cannot be accomplished when this button is pulled out. See that it is pushed in, except when rewinding film.

2. FILM LOADING

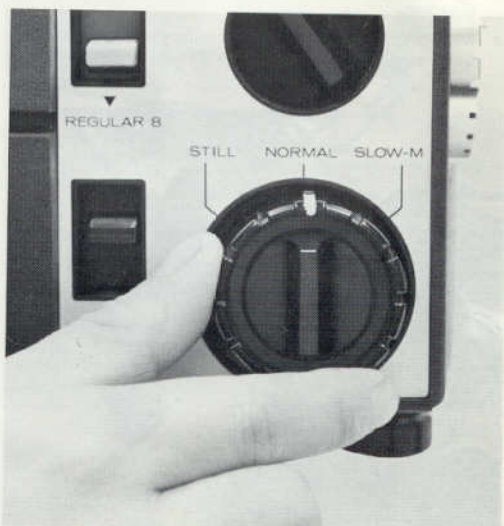
a. Film Cutter

Prior to film loading, make it a rule to check the end of the film. Crimping or raggedness of the film end, or torn perforations may prevent smooth, automatic film threading. If the film end is not correctly shaped, trim the film end neatly with the aid of the Film Cutter as illustrated.



b. After ascertaining that the AC cord is plugged into the mains outlet, set the Rotary control Switch to "FWD" position. The Loopsetter Guide is then automatically pushed down and everything is ready for auto-loading.

c. Make sure that the Speed Selection Knob is set at "NORMAL".



d. Inserting the film

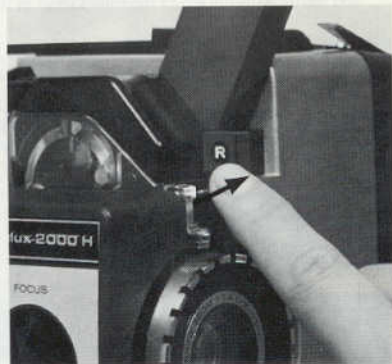
Insert the film end into the Auto-Load Slot. Release your hold on the film as soon as you feel a slight tug indicating that the Feed Rollers have taken up the film. The automatic system then takes over the chores of film threading.

- e. When the film passes through the aperture, the Loopsetter Guide automatically springs up and makes the Proper Film Loop.



Caution:

The Auto-Load Slot will not be accessible for introduction of the film end if the Rapid Rewind Lever is pulled out. Prior to film loading, therefore, see that it is pushed in.



- f. Check whether the film winds properly on the Auto-Reel. After the film comes out of the Film Guide Outlet, see that it winds automatically onto the spindle of the Auto-Reel.

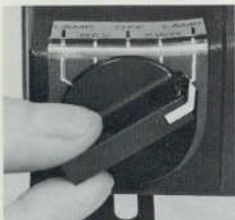
Note:

To assure smooth and efficient automatic film threading, it is advisable to cement some length of white film leader at the beginning of your film.

3. PROJECTION

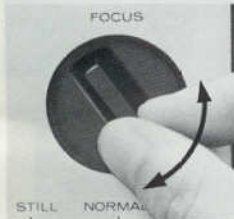
a. Set the Rotary control Switch to "LAMP"

When the Rotary Switch is adjusted to "LAMP" setting, the Loopsetter Guide Automatically springs up and the Lamp is switched on for movie performance.



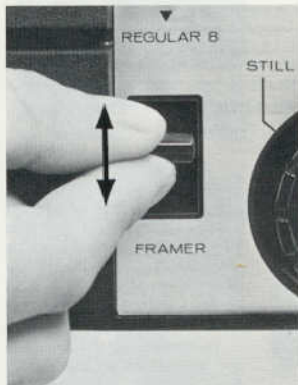
b. Focus precisely

Turn the Focusing Knob and adjust till the image on the screen appears clearly defined.



c. Make frame adjustment.

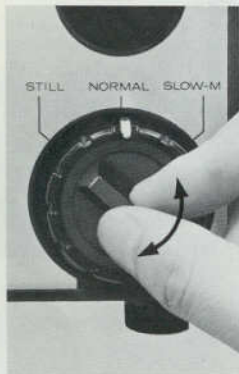
If a part of the picture is cut off on either the top or bottom edge as shown in the illustration, make the required adjustment by pushing the Framer Knob up or down. The picture frame will shift in the direction the Knob is moved.



d. Adjust the projection speed.

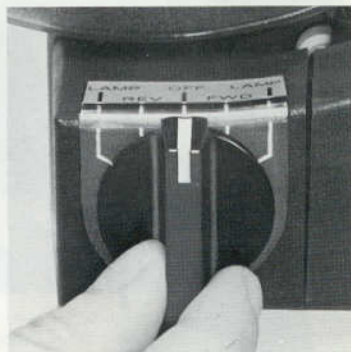
The projection speed can be adjusted by rotating the Speed Control Knob in the required direction.

Because the system incorporated in the Sankyo dualux 2000H affords continuous variation of the speed of operation of the motor, compensation of the projection speed because of a decrease in line voltage can be effected very easily. To adjust the projection speed, turn the Speed regulator Knob either to the right or left until the movement of all subjects appears natural. All movement gets slower when the Speed Control Knob is turned to the left and is accelerated when rotated to the right.

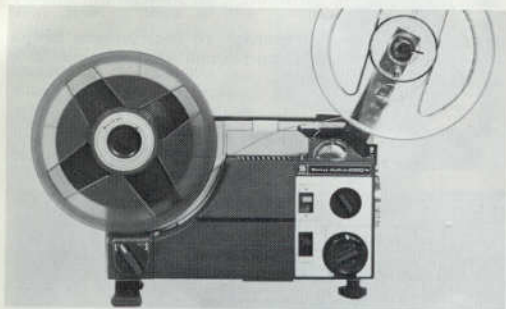
**Note:**

The film drive may sometimes come to a standstill if a film with torn perforations is threaded. This does not, however, signify a malfunction on the part of the projector itself. If, at the end of either forward or reverse projection, the film end should fail to slip out of the film path, preventing the film from being wound completely onto the reel, wind the remaining length manually by turning the reel in the required direction while keeping the motor running.

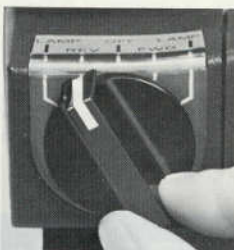
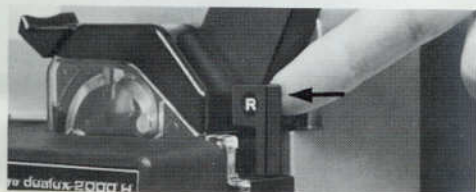
- a. When the full length of the film has been run through the projector, the screen area blacks out because of an automatic function of the shutter and the reel takes up the film. If the end of the film still remains inside the projector, wind the reel by hand and take up the film completely.
- b. Reset the Rotary control Switch to "OFF" to turn off the power supply to the projector.



- c. Wind the film end onto the empty supply reel.
By running the film over the Lamphouse Cover, wind the film end securely onto the core of the supply reel.



- d. Pull out the Rapid Rewind Lever.



- e. To start the film rewinding operation, set the Rotary control Switch to "REW".

- f. Turn off the Rotary control Switch.

After determining that the film has been rewound completely, reset the Rotary control Switch to stop the rewinding operation.

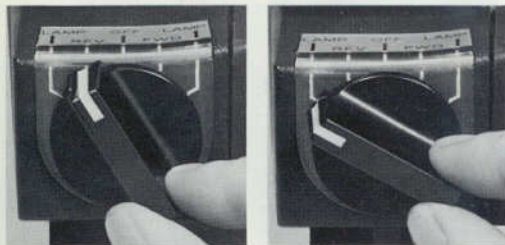


- g. After rewinding, push in the Rapid Rewind Lever.

Caution: Avoid touching the reels in the course of rapid rewind. Excessive load because of this will automatically set the safety system in operation, causing the projector to produce a rattling sound.

5. REVERSE PROJECTION

Reverse projection can be done at any point in the course of normal projection simply by setting the Rotary control Switch to "REV" and then turning it further to "LAMP" setting. By running the film in reverse, repeat performance of any desired scene or comic effects can be obtained such as water spilled on a table top returning into a cup. The line which borders the individual frames may appear on the screen when the film is run in reverse. When necessary, therefore, make frame adjustment by manipulating the Framer Knob.

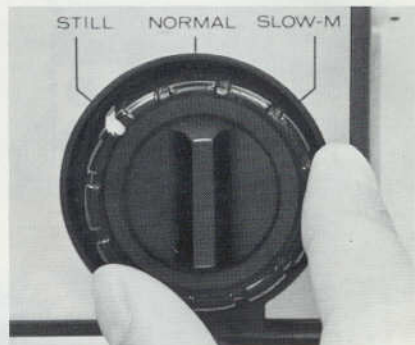


6. STILL PROJECTION

The still projection provision of the Sankyo dualux-2000H permits "freezing" of any desired frame on the screen.

For still projection, set the Speed Selection Knob at "STILL". When it is returned to "NORMAL", the projector will instantly resume normal projection.

In order to prevent heat damage to your valuable film, a heat-absorption filter sets into position when the projector is adjusted for still projection.

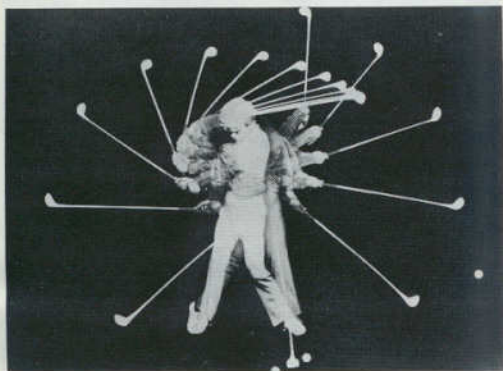
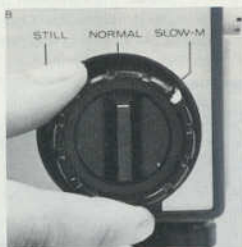


Note: In the course of still projection, the image is liable to shift out of focus.

When necessary, therefore, manipulate the Focusing Knob to get sharp focus.

7. SLOW MOTION PROJECTION

You can enjoy the effect of the slow motion technique with Sankyo dualux-2000H. It provides you with a projection speed a third of the normal one and it is very effective in analyzing the motion of sports scenes etc. For slow motion projection, set the Speed Selection Knob at "SLOW-M".

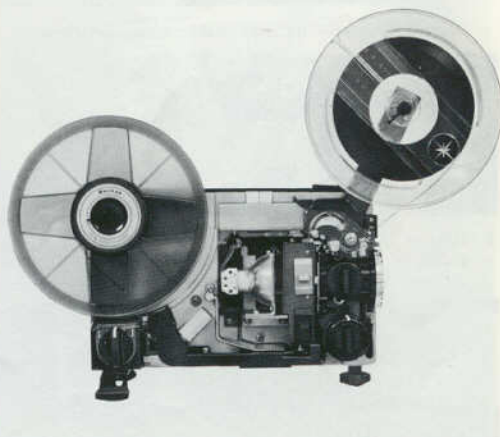


8. UNTHREADING THE FILM HALF WAY THROUGH PROJECTION

When it is necessary to unthread the film during projection, first turn off the Rotary control Switch and remove the film in the following manner while taking due care not to scratch or damage the film surface:

- a. Loosen the Lock Screw on the top of the Lamp house Cover and remove the Lamphouse Cover, pulling it horizontally.

Caution: Be careful not to lose the screws.



b. Loosen the Guide Cover Lock Screw and remove the Guide Cover.



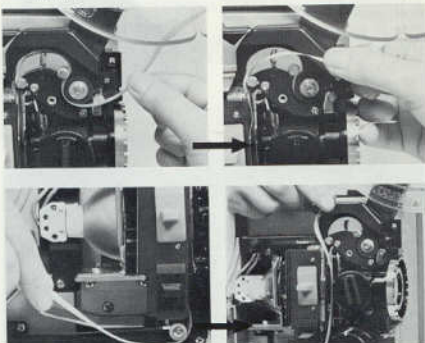
c. Push the Pressure Plate Latch in the direction of the lens.



d. Remove the Film Guide Cover in the bottom of the projector by hooking your finger on its left edge and pulling it out.



e. To remove the film, first unthread it from the Rollers, then extract it from the Loopsetter Guide section and Film Guide. After doing this remove the film from the Film Gate section.



Note: To replace the Guide Cover, introduce the stud on the right edge of the Cover into the socket on the Film Guide, then, push the left end of the Cover so as to slip the Cover under the clamp spring. Before replacing the Lamphouse Cover, make sure the Pressure Plate Latch and other parts have returned to their original positions.



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