# Film-Tech

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# OPERATING INSTRUCTIONS

## FOR

# THE MAXI

# PLATTER SYSTEM

D113799

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# 1.0 INTRODUCTION

#### 1.1 Scope

Provided in this manual are installation, operation and maintenance instructions for the ORC Maxi Platter System. When requesting information, always furnish model and serial numbers to Optical Radiation Corppration (ORC) Azusa, California, U.S.A.

#### 1.2 General Description

The Platter Systems are 35mm and 35/70mm film transport systems capable of giving up to 4.5 hours of uninterrupted viewing. They are designed with the minimum number of parts and mechanisms, each performing a basic function resulting in reliable operation. Installation is an easy task with little or no adjustment required. Operation is simplified by the lack of complex mechanical and electrical components.

Program make up is accomplished by splicing the featured films together into one continuous length (up to 4.5 hours). Using the Make Up Table in conjunction with the Platter System cuts program make up and break down time to a minimum. All controls are accessible at the table. Breakdown of past program or make up of future programs can be done while present program is being viewed.

The three (3) disc system has the capacity to hold two full programs, viewing of each program is separated only by the time it takes to rethread projector and platter. Each program is ready to be rethreaded and shown again immediately upon completion; no rewinding is necessary.

# 1.3 SPECIFICATIONS

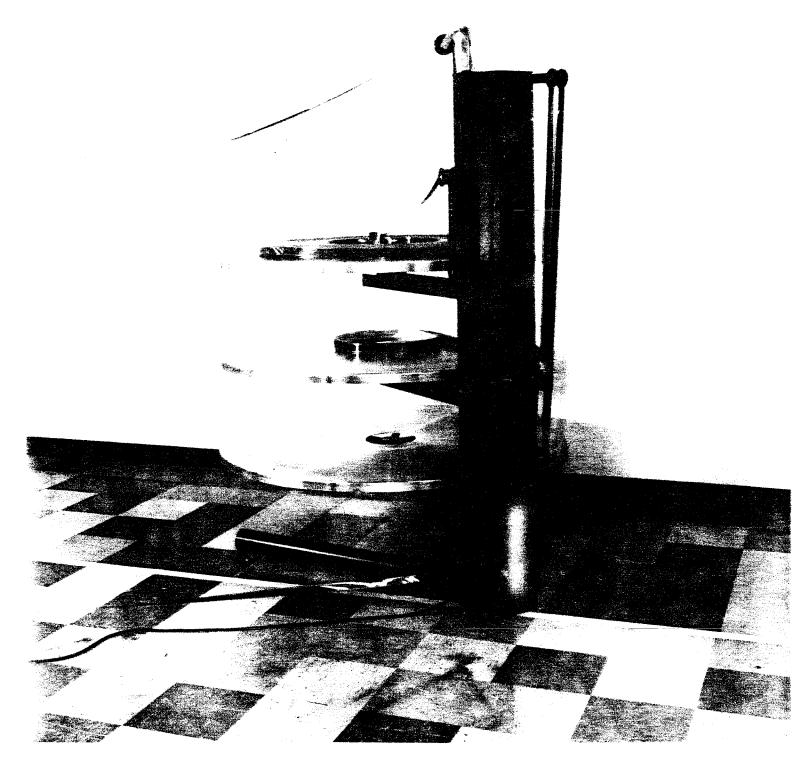
#### Platter

POWER REQUIREMENTS: 115VAC, 5 amps, 50/60Hz standard 3 wire w/ground DIMENSIONS: 5.5' D × 4.5' W × 6' H WEIGHT: 540 lbs. SHIPPING WEIGHT: 606 lbs. FILM CAPACITY: 4.5 hours approximate TAKE-UP SPEED CONTROL: Variable Resistance Trolley controlled by film tension. FEED CONTROL:

Proportional phase control by precision long-life servo-pot system.

#### Make Up Table

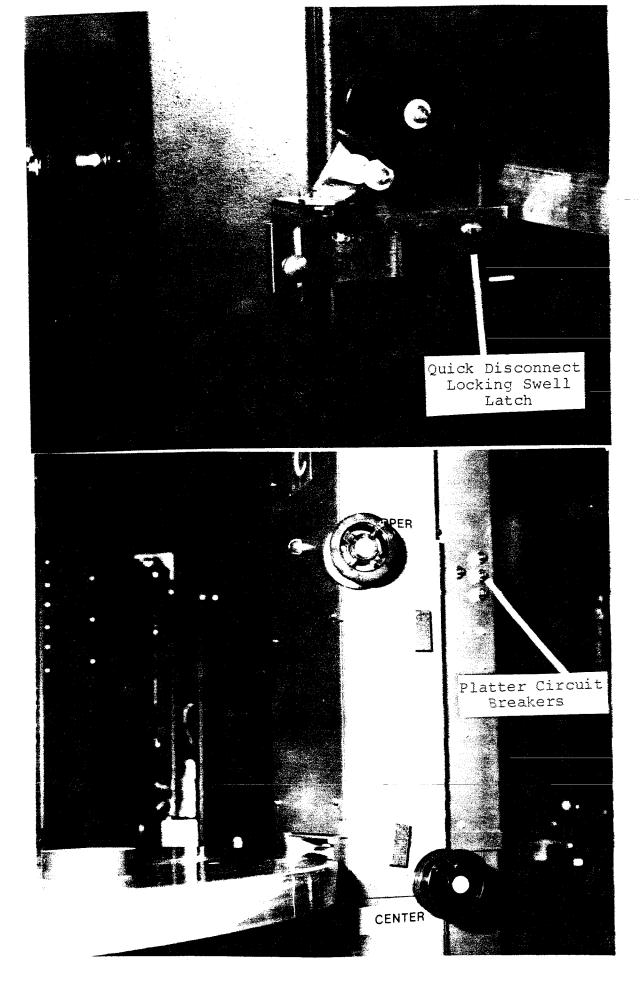
POWER REQUIREMENTS:	115VAC, 5 amps, 50/60Hz standard 3 wire w/ground
DIMENSIONS:	2' D × 1.5' W × 5' H
WEIGHT:	75 lbs.
SHIPPING WEIGHT:	94 lbs.



PLATTER SYSTEM ASSEMBLY

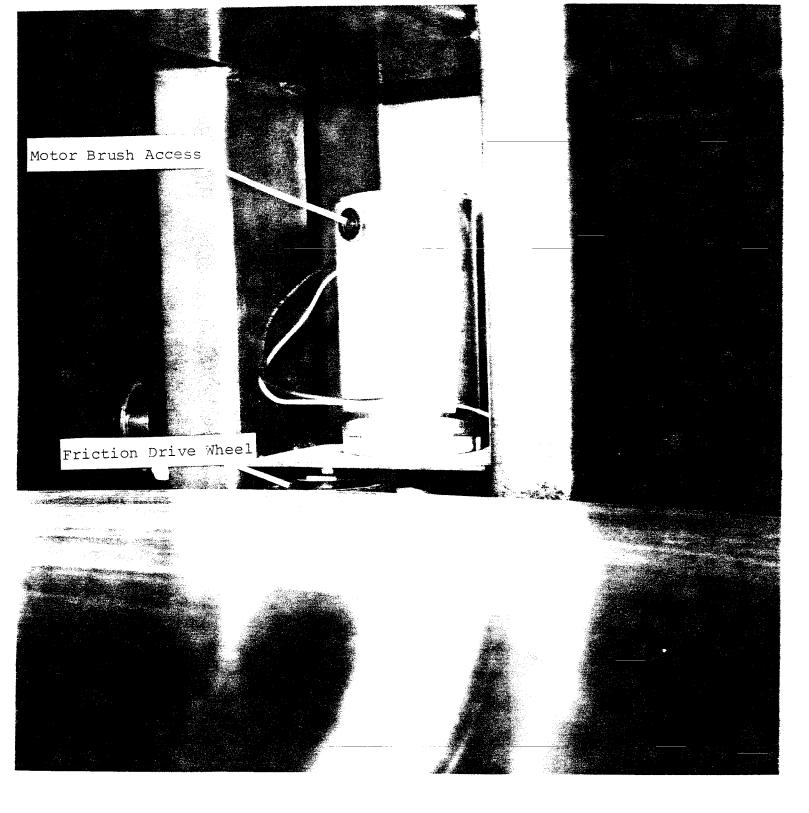


PLATTER SYSTEM - TAKE UP SIDE

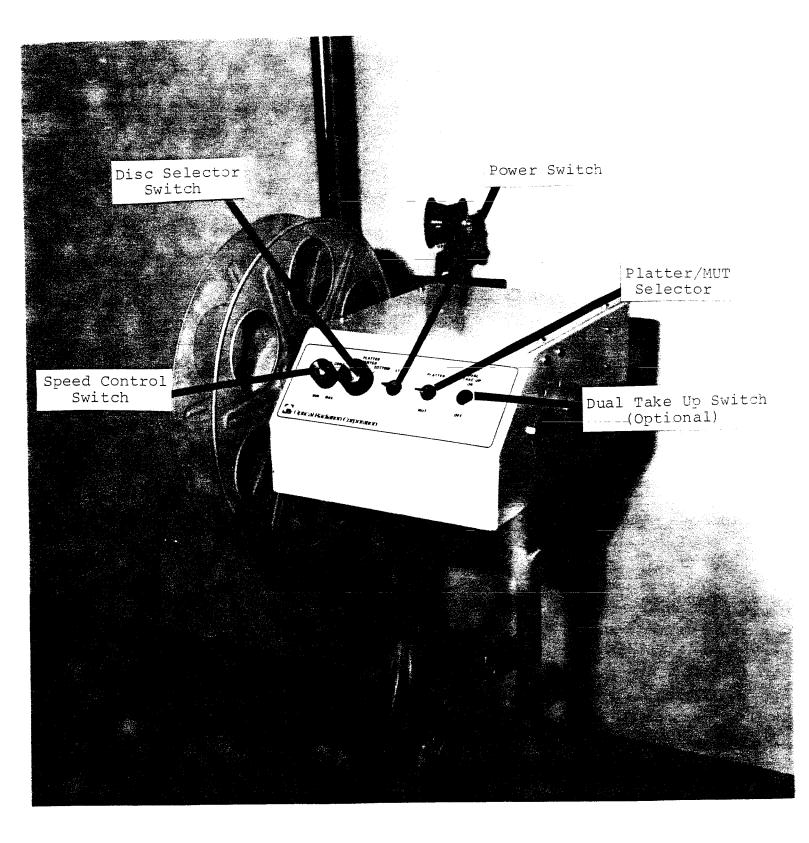


- TAKE UP ROLLER ASSEMBLY (Adjustable)

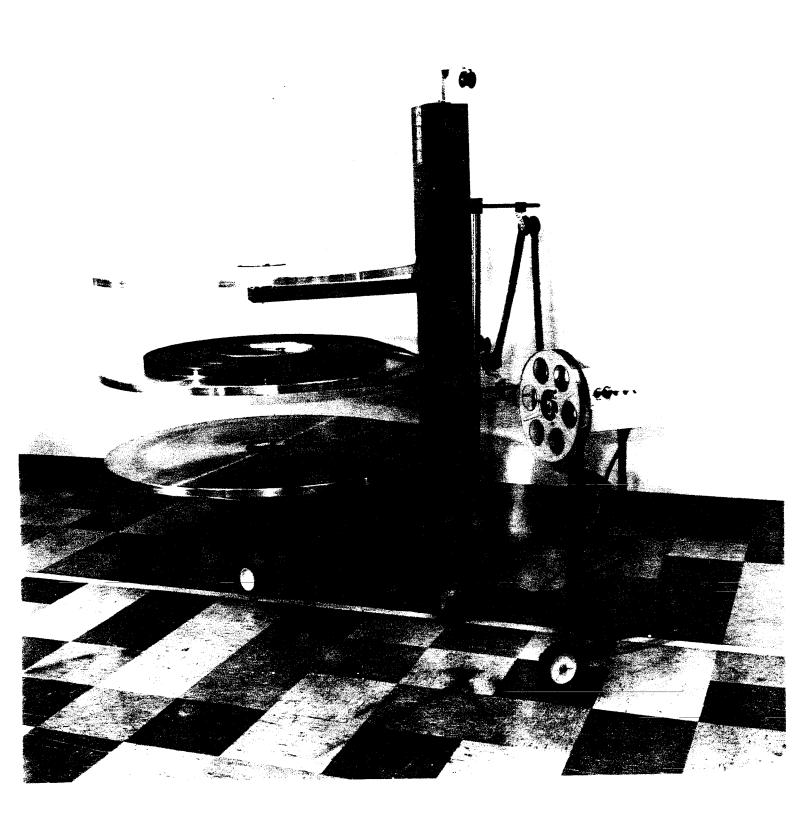
FEED OUT ROLLER ASSEMBLY



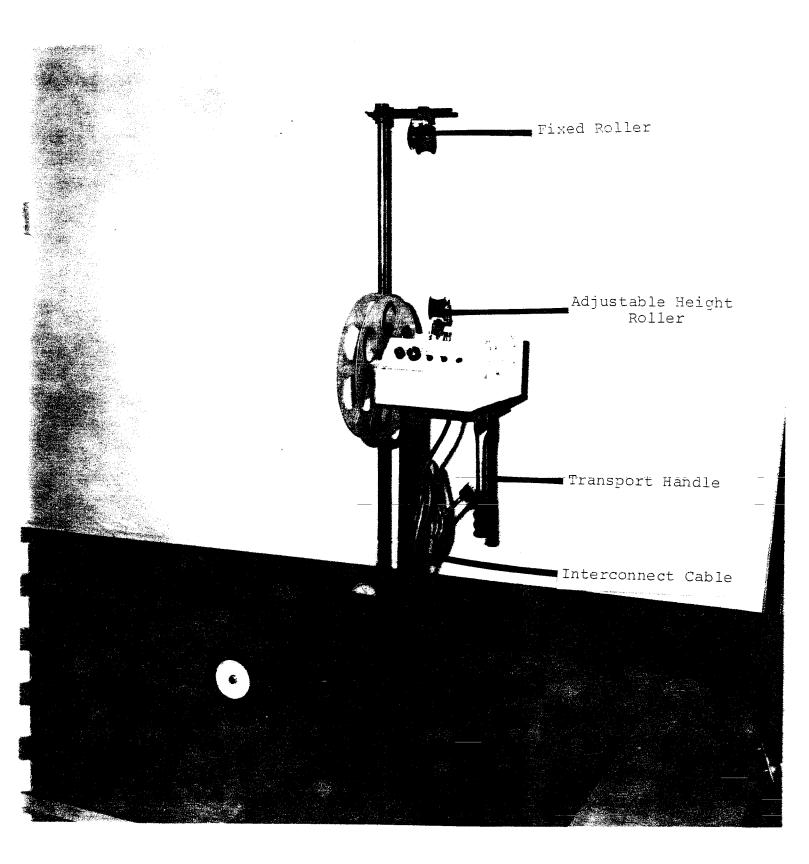
PLATTER DRIVE MOTOR (Access Cover Removed)



MAKE UP TABLE CONTROLS



# PLATTER SYSTEM & MUT



MAKE UP TABLE ASSEMBLY

#### 2.0 IMPORTANT SAFEGUARDS

READ AND UNDERSTAND ALL INSTRUCTIONS

#### 2.1 WARNING

The above "WARNING" when appearing in this manual means: INSTALLATION, OPERATING AND MAINTENANCE PRO-CEDURES, PRACTICES, ETC., WHICH MAY RESULT IN PER-SONAL INJURY OR LOSS OF LIFE IF NOT CAREFULLY FOL-LOWED.

#### 2.2 CAUTION

The above "CAUTION" when appearing in this manual means: INSTALLATION, OPERATING AND MAINTENANCE PRO-CEDURES, PRACTICES, ETC., WHICH MAY RESULT IN DAM-AGE TO EQUIPMENT IF NOT CAREFULLY FOLLOWED.

#### 2.3 <u>NOTE</u>

The above "NOTE" when appearing in this manual means: INSTALLATION, OPERATING AND MAINTENANCE PROCEDURES, PRACTICES, ETC., WHICH ARE ESSENTIAL TO EMPHASIZE.

## 2.4 <u>SAFETY</u>

#### WARNING

- 2.4.1 Before attempting any service inside the unit or when servicing a motor disconnect unit or when servicing a motor disconnect the power plug.
- 2.4.2 When taking any voltage measurements, caution should be exercised. Always avoid contact between any current carrying part of the system or power source and the human body.
- 2.4.3 The power source must be a 3 conductor grounded type.
- 2.4.4 Do not operate Platter System with a damaged cord or if the Platter System has been damaged until it has been examined by a qualified serviceman.
- 2.4.5 If an extension cord is necessary, a cord with a suitable current rating should be used. Cords rated for less amperage than the Platter System may overheat. Care should be taken to arrange the cord so that it will not be tripped over or pulled. Be sure to use 3 conductor cord.
- 2.4.6 Always unplug Platter System from electrical outlet when not in use. Never yank cord to pull plug from outlet. Grasp plug and pull to disconnect.

SAVE THESE INSTRUCTIONS

#### 3.0 INSTALLATION

#### 3.1 Receiving-Handling

Remove all packing material from around the Platter System and carefully inspect for damage caused by the freight carrier. Any claims for loss or damage that has occurred in transit must be filed by the buyer with the carrier. A copy of the bill of lading and freight bill will be furnished on request.

When requesting information concerning the equipment be sure to furnish stock, serial and model numbers.

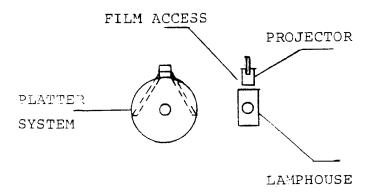
#### 3.2 Installing Platter System

The Platter Systems are shipped assembled except for the attachment of the tubular shaped legs, and the placement of the discs and control centerpieces on the support arms, and installation of guide rollers.

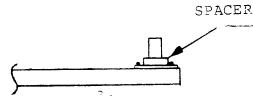
#### NOTE

Each disc and control centerpiece is marked so that it can be positioned on the proper support arm. Although they are interchangeable, they have been preadjusted at the factory and should be placed on the levels marked. Misplacing of the centerpieces may require readjustment.

The Platter System may be located on either side of the projection system. A typical installation is shown in Figure 3-1.



Attach the tubular legs to the upright post assembly as shown in Figure 1-1 with four  $3/8-24 \times 1/2"$  long set screws complete. It is advised to remove at least one set screw per leg to permit easy alignment of the legs. Move the post and support arm assembly into position.



Locate the markings on the discs. Select the bottom disc and place on the support arm. The hub of the disc should rest on the spacer shown in Figure 3-2 when properly in place. Select the proper control centerpiece and plug it into the socket in the post (See Figure 3-3).

The bottom surfaces of the control arm roller assembly should not rub on the plate when it is properly adjusted, and it should swing freely within the limits of the adjacent rollers.

Repeat the above procedures for each support arm, working from the bottom to the top of the unit.

#### 3.3 Film Roller Installation

The rollers have been packaged and numbered. They are installed with a phillips screw driver.

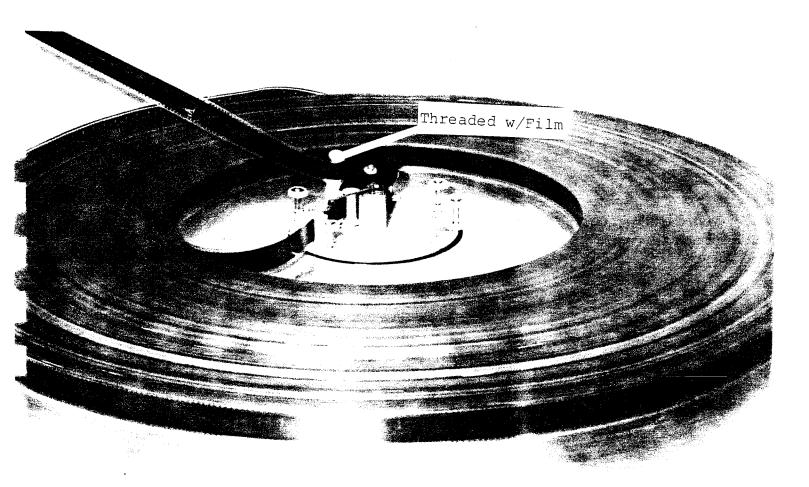
#### 3.4 Film Guidance Roller Installation

The film guidance rollers supplied are to be mounted to the upper and lower magazines of the projector.

Cut a three to four inch slot in the outer edge of the upper magazine slightly forward of the center spindle and flush with the inside back of the magazine so that the film path is clear. Position the guidance roller assembly against the rear surface of the magazine in the center of the slot just cut, and with the bottom of the rollers about six inches away from the magazine. Drill one hole near the outer edge of the magazine through the magaxzine and the roller mounting bar and bolt these items together. To adjust the guidance roller assembly, thread a length of film from the projector through rollers to the Platter System. For forward and backward adjustment rotate the rollers around the mounting bolt, and for side or directional adjustment, twist or bend mounting bar in direction needed. Upon completion of alignment, drill a second hole four inches from first hole through the magazine and roller mounting bar. Insert hardware and secure in place. Repeat this procedure for the bottom magazine.



CONTROL CENTERPIECE



# 3.5 Platter System Controls

The Maxi Platter is equipped with an electronic control which allows the feed-out of the film to operate independently from the take-up control.

## 3.5.1 Circuit Breaker

The panel consists of three (3 ea.) 3 amp motor circuit breakers and one (1 ea.) 5 amp system circuit breakers.

#### 3.5.2 Control Centerpiece

The platter speed during feed-out is determined by the position of the control arm on the centerpiece assembly. The control arm is mounted on the shaft of a ball bearing servopot. It constantly monitors and controls the feed-out rate as demanded by the projector.

The centerpiece assembly is a plug-in module which may be easily removed from the system for servicing. The servopot and the control arm are factory adjusted. The following procedure should be followed to determine if readjustment is needed.

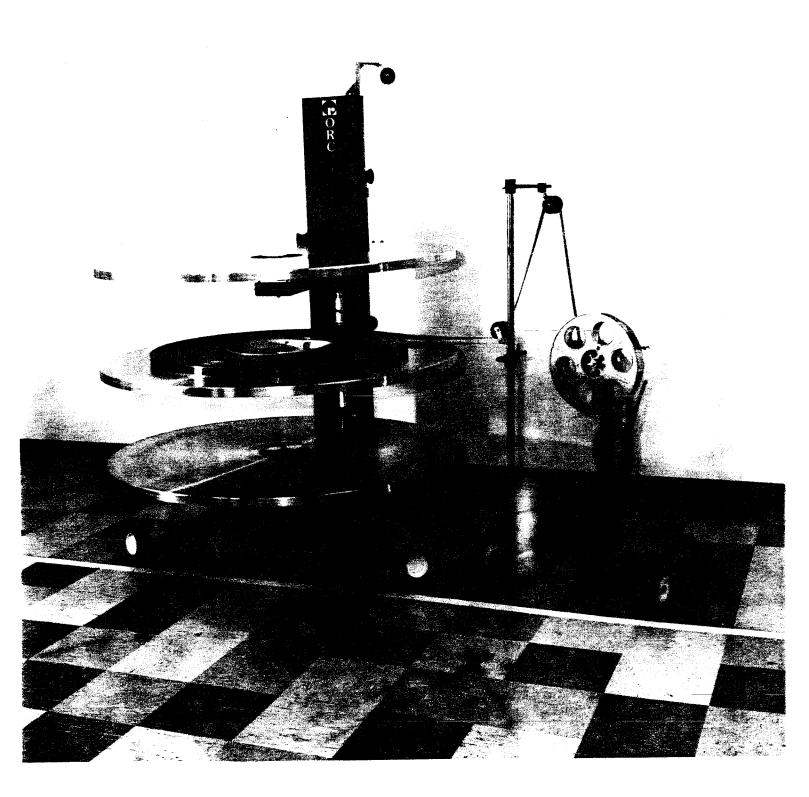
- 1) Check that the disc drive wheel is engaged with the edge of the correct disc.
- 2) Plug the system into the 115VAC power source, this should light the two pilot lights under the upper arms.
- 3) The disc should rotate at high speed when the control arm is in the extreme clockwise position, and stop in the most counterclockwise position. If resetting is required, refer to section 5.1.1.

#### 3.6 Make Up Table Assembly

- 3.6.1 Refer to Figures 1-2A and 1-2C for the following procedures.
- 3.6.2 (1) Attach mounting bracket and control box assembly to base using three 1/4-20 bolts.
  - (2) Attach the vertical height adjustment bar to base.
  - (3) Install the adjustable swivel roller and fixed roller assembly on the vertical height adjustment bar.
- 3.6.3 Bring the film through the swivel roller and adjust the roller track for alignment with the film reel. Securely tighten the track mounting screws.

# MAKE UP TABLE PROCESS

Step #1.	Set the film speed control at minimum. Sat the rotary switch to the disc to
Step #2.	be used for Make-Up.
Step #3.	Place the power switch in the OFF pos- ition.
Step #4.	Set the "Platter/MUT" switch to Plat- ter. The speed of the platter will now be controlled by the speed control
Step #5.	on the table. Plug the interconnecting cable on the Make Up Table, into the socket located on the base of the upright column of the Platter.
Step #6.	Remove the control centerpiece from the disc to be used for Make-Up.
Step #7.	Remove the "Moveable Take-Up Roller Bracket" from the disc to be used for Make-Up.
Step #8.	Check that the disc drive wheel is engaged.
Step #9.	
Step #10.	Install reel on the spindle of the Make Up Table.
Step #11.	Adjust the rollers on the vertical pole of the Make Up Table for op- timum alignment with the disc.
Step #12.	Fasten the film head leader to the take-up ring, with sound track up, and wind counterclockwise direction.
Step #13.	Place the power switch on the table to the ON position. Slowly increase the speed control dial until the de-
Step #14.	sired speed is reached and transfer the film from the reel to the disc. Continue splicing the reels together until the program is complete. When finished return power switch to the OFF position, return the film speed control dial to minimum and un- blug the interconnecting cable.



MAKE UP TABLE PROCESS

# PROGRAM PRESENTATION

- Step #1. Select the take-up disc by placing the alignment pins of the "Moveable Take-Up Roller Bracket" in the alignment holes nearest the disc to be used. The other two discs are ready for feed.
- Step #2. Remove the take-up ring from the program to be shown and install on the Platter selected for take-up.
- Step #3. Install the control centerpiece on the disc to be used for feed.
- Step #4. Check that the disc drive wheels are engaged.
- Step #5. Install the Feed roller bracket in the designated place for the disc to be used for feed-out. This is locked in place with two toggle swell latches.
- Step #6. Thread the film from the center of the disc through the contect conterpiece and then to the feed roller breaket on the upright column
- Step #7. Pull off enough film to thread the projector, the Platter System and back to the take-up ring.
- Step #8. Fasten the film to the take-up ring so that the sound track is up and the film winds in a counterclockwise direction. The program is now ready for presentation

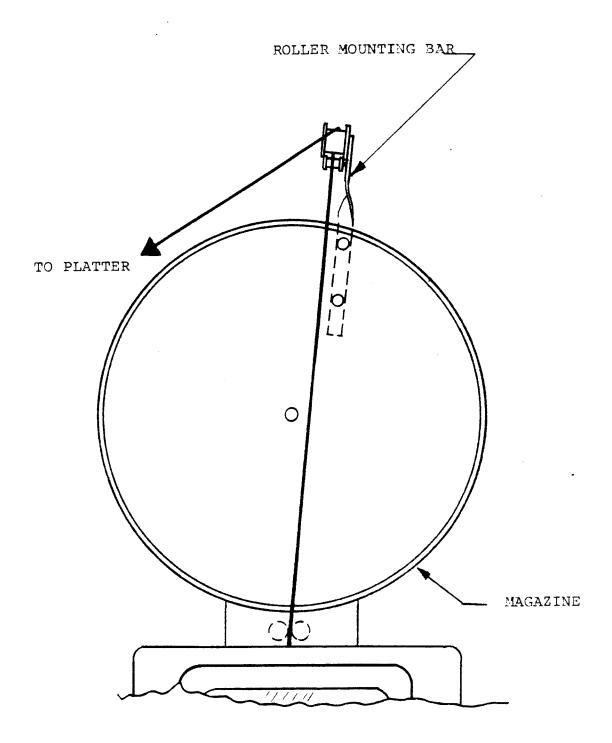
#### BREAK DOWN PROCESS

- Step #1. Set the film speed control at minimum.
- Step #2. Set the rotary switch to the disc to be used for breakdown.
- Step #3. Place the power switch in the OFF position.
- Step #4. Set the Platter/MUT switch to MUT.
- Step #5. Plug in the interconnecting cable on the Make Up Table into the socket located on the base of the upright column of the Platter.
- \*Step #6. Remove the control centerpiece from the disc to be used for break-down.
- \*Step #7. Remove the moveable take-up roller bracket from the disc to be used for break down.
- Step #8. Check that the disc drive wheel is disengaged.
- Step #9. Place the take-up reel on the side of the spindle of the table.
- Step #10. Adjust the rollers on the vertical pole of the Make-Up Table for optimum alignment with the disc.
- Step #11. Thread the film from the outside of the disc through the table rollers and onto the reel in a counterclockwise direction with the sound track in.
- Step #12. Place the power switch on the table to the ON position. Slowly increase the speed control dial until the desired speed is reached and transfer the film from the disc to the reel.

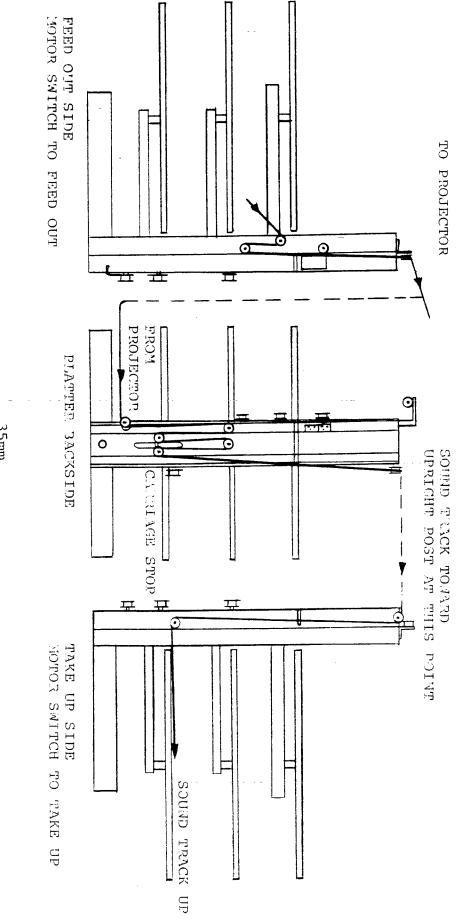
#### CAUTION

Make all speed changes very slowly. Remember that the film is pulling on a full Platter (80-200 pounds). If sudden speed changes are made the film will break and the Platter will continue to turn.

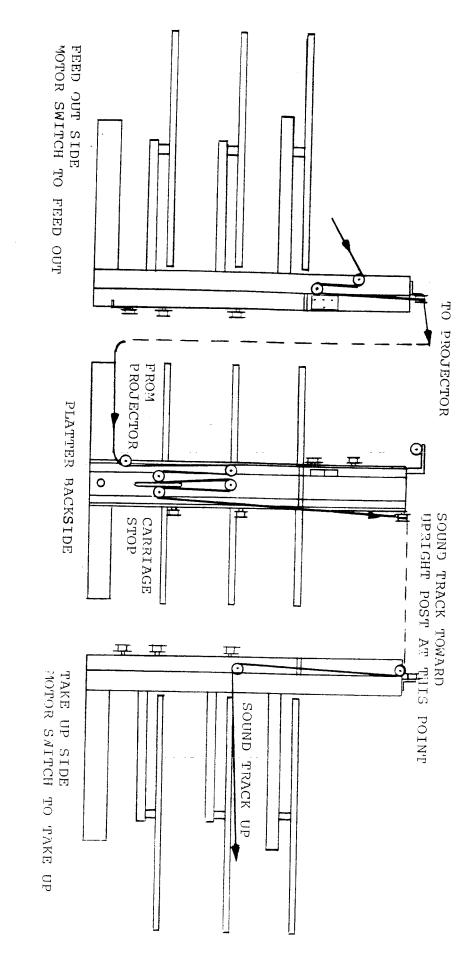
\*Not required, but serves as a safety feature accidental presentation interruption if the MUT Table is not disconnected after make up or break down.



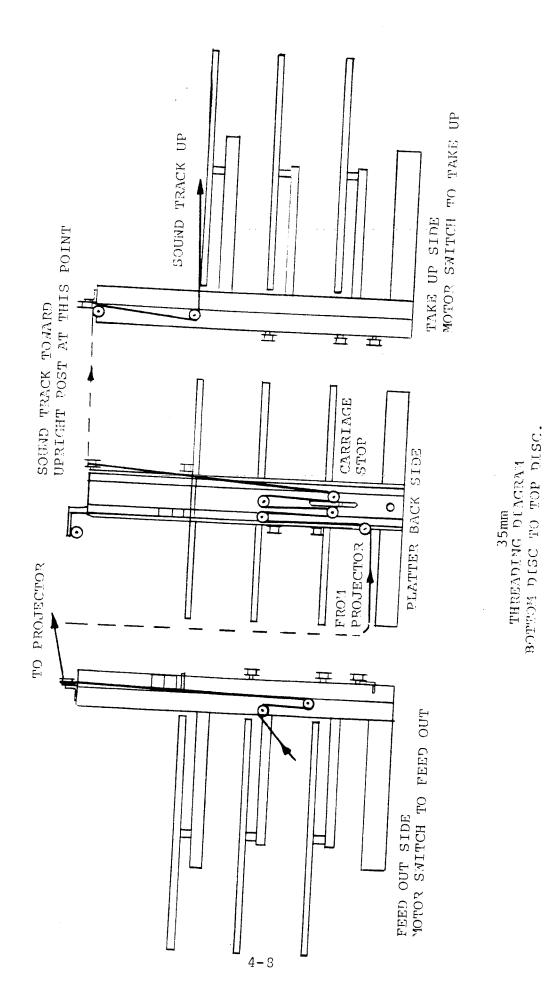
FILM GUIDANCE ROLLER INSTALLATION

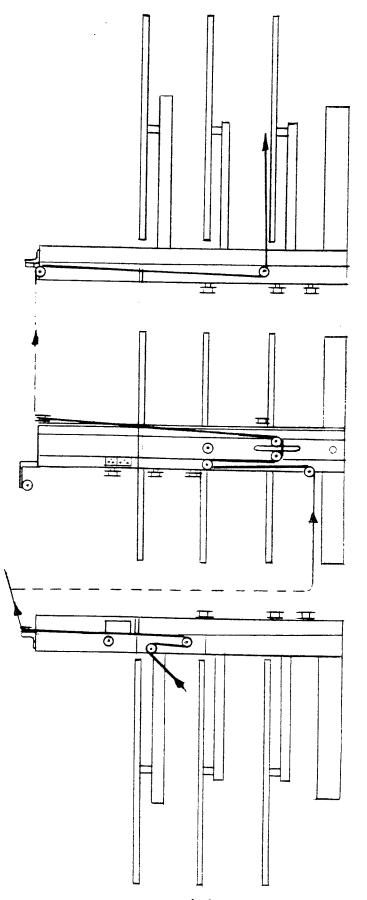


35mm THREADING DIAGRAM CEWTER DISC. TO BOTTOM DISC.

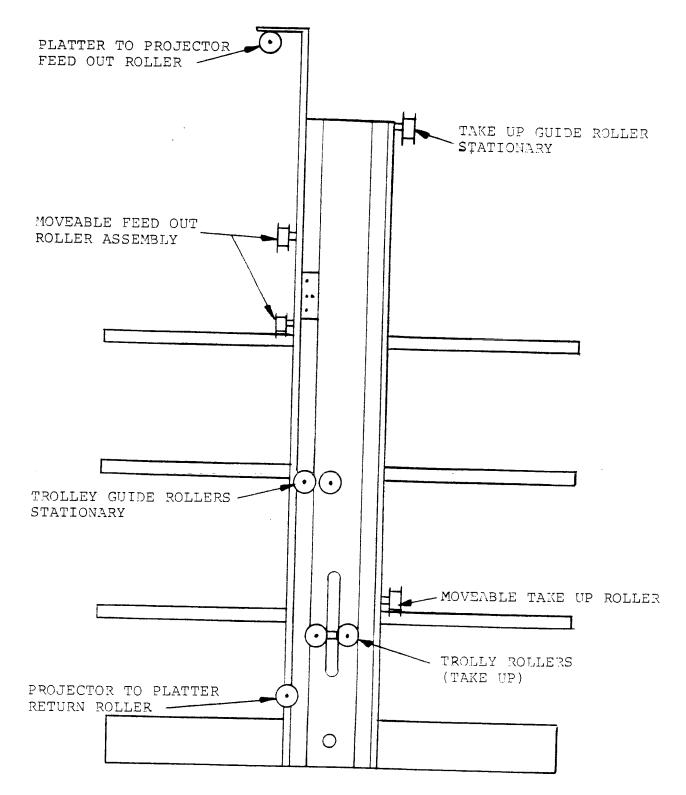


35mm THREADING DIAGRAN TOP DISC TO CENTER DISC









35mm and 35/70mm Platter Roller Diagram

## 5.0 MAINTENANCE

# 5.1 Platter System and Make Up Table

Maintenance on the Platter System and the Make Up Table consists of keeping the unit clean.

Disc surfaces can be refinished with 3/0 emery cloth or steel wool working slowly from the center out with the disc, rotating at maximum speed. (Make Up Table control in Platter mode gives maximum speed).

The application of wax to painted surfaces will aid in the protection of the system. Use of a foaming/ degreasing aluminum cleaner on disc will keep discs clean. The control centerpiece, control arm and rollers should be checked to insure that all parts move freely. Any commercial liquid household cleaner used sparingly may be used to wipe down the system and clean the rollers.

Monthly check all rollers and roller assemblies for freedom of movement. Rollers with bearings that do not rotate freely must be replaced; others may be disassembled and cleaned.

Every six months, check the brushes on the drive motors and variable transformers. Replace as necessary. See Spare Parts List Section 5.4.

The bearings in the Make Up Table should be inspected after approximately every 40 hours of use, and lubricated with a small amount of Kroil lubricant.

# 5.1.1 Control Centerpièce Adjustment

- 1. Remove centerpiece and place on level surface with plug exposed to allow a VOM connection.
- 2. Loosen the screw on the control arm.
- Connect VOM leads to the phone plug on the underside of the assembly. Set meter range to R x 1 resistance scale.
- 4. Hold the control arm in the CCW position when viewed from above.
- 5. With a small flat blade screwdriver inserted in the slot of the servopot shaft, turn shaft until VOM reads as close to zero as possible. The maximum setting should not exceed 50 ohms.
- 6. Tighten screw on control arm and re-check resistance reading in the CCW position.
- Check resistance reading in the full CW position (top platter speed). It should be 700 +50 ohms.
- 8. Adjust torsion spring tension so the control arm will slowly return back to the CCW position (complete stop position).

## 5.1.2 Top Speed Adjustment

Refer to Figure 5-1. Maximum platter speed is factory adjusted; if adjustment is required, perform the following steps:

#### CAUTION

THERE ARE 115 VAC SECTIONS ON THE SPEED CONTROL PC BOARD AND CONNECTOR. DO NOT HANDLE BOARD UNLESS THE PLATTER IS UN-PLUGGED FROM THE WALL OUTLET.

- 1. Remove mounting screws from hinged control panel and swing panel open to gain access to trimmer pot on speed control printed circuit board.
- 2. Determine which platter is the fastest and the slowest. Set feed selector switch to SLOWEST PLATTER.
- 3. Use a piece of masking tape to hold control arm on slowest platter control centerpiece to the full CW position (platter max. speed).
- 4. Adjust trimmer pot until top platter turns at 30 RPM (5 turns 6-1/2 turns per 10 seconds).
- 5. Switch feed selector to next platter and repeat step 3. Readjust trimmer pot if platter speed is less than 30 RPM (5 turns per 10 seconds).
- 6. Repeat step 3.5 for the last platter.

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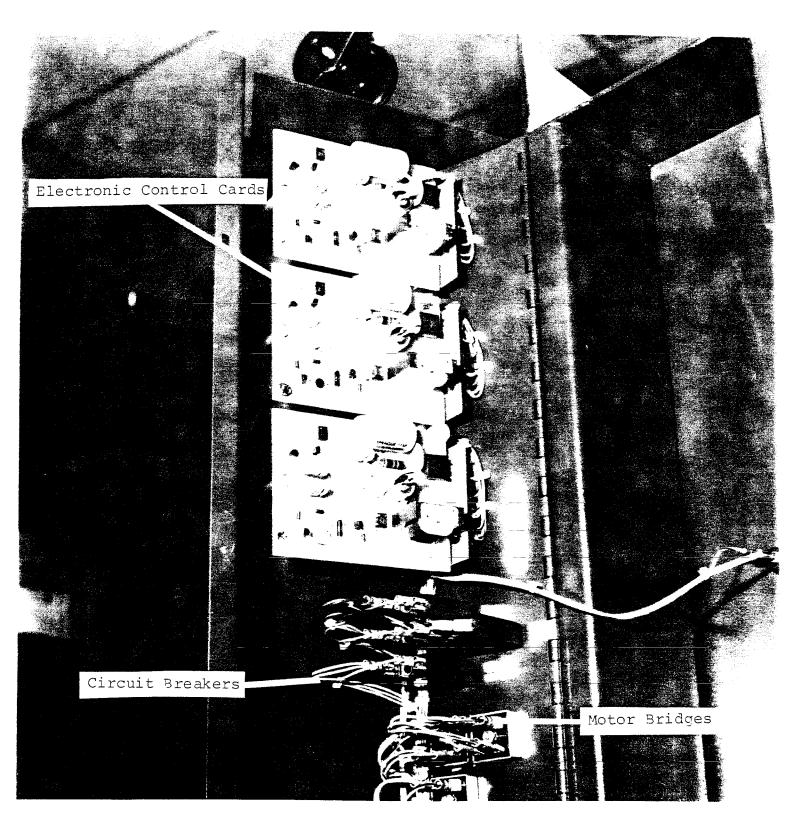


FIGURE 5-3 CONTROL PANEL ASSEMBLY

# 5.2 TROUBLESHOOTING GUIDE

#### Symptom

1. Platter does not rotate.

2. Make Up Table spindle does not rotate.

 Film under or overruns on feed-out.
 NOTE: A slight oscillation may be observed at the beginning and end of program, which should stabilize.

#### Probable Cause

- 1.1 C/B in table tripped.
- 1.2 No power at power source.
- 1.3 Defective speed control.
- 1.4 Switch off in table position (MUT connector).
- 1.5 Cord not securely inserted in Platter System.
- 2.1 C/B tripped.
- 2.2 No power at power source.
- 2.3 Defective speed control.
- 2.4 Switch off or in Platter position.
- 2.5 Motor brushes defective.
- 2.6 Belt slipping on pulley
- 2.7 Pulleys loose on shaft(s)
- 3.1 System not threaded properly.
- 3.2 Control arm not moving freely.
- 3.3 Control centerpiece out of adjustment(See 5.1.1)
- 3.4 Maximum speed adjustment is set too high.(See 5.1-.2).
- 3.5 Control centerpiece potentiometer is faulty.

# 5.3 Brush Inspection And Replacement Procedure

## WARNING

#### ARMATURE BRUSHES ARE NOT AT GROUND POT-ENTIAL. DISCONNECT THE POWER SOURCE BEFORE ANY WORK IS PERFORMED

Brush wear rate varies depending on the individual application's duty cycle, and should be inspected at frequent intervals (120) days to determine an appropriate inspection schedule for each specific application.

# 5.3.1 <u>Brush Removal</u>

Unscrew brush retaining cap and withdraw spring and brush (See Figure 1-1C). Replace if needed. (Always replace both brushes when service is required).

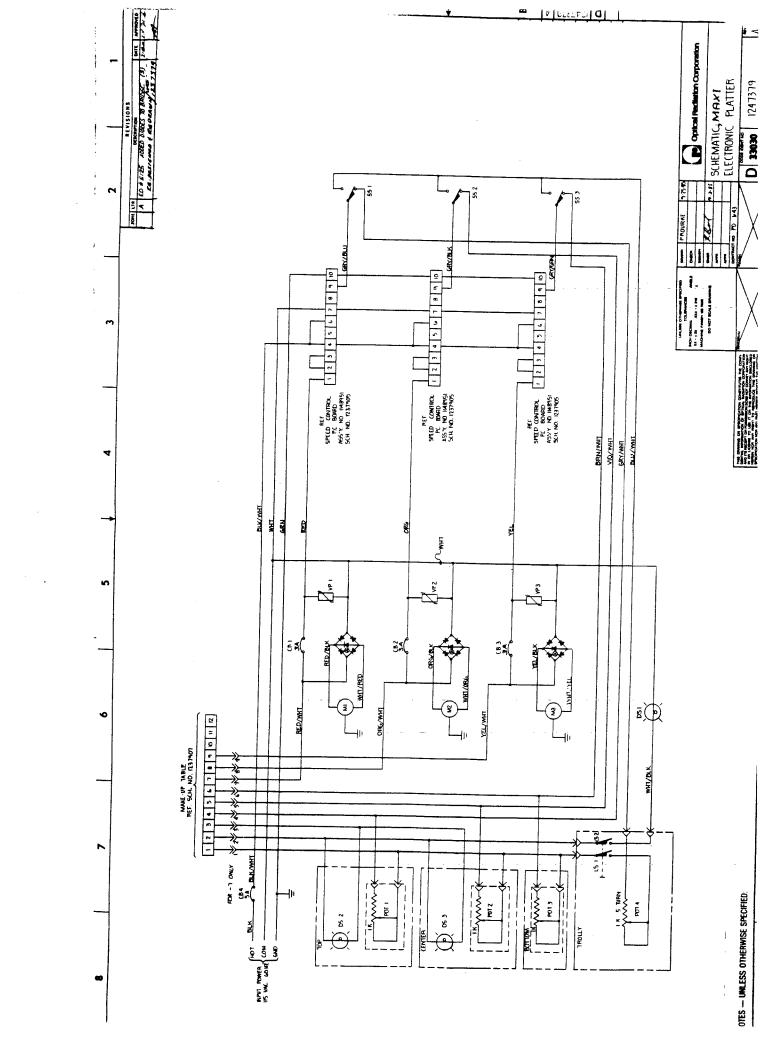
# 5.4 Spare Parts List

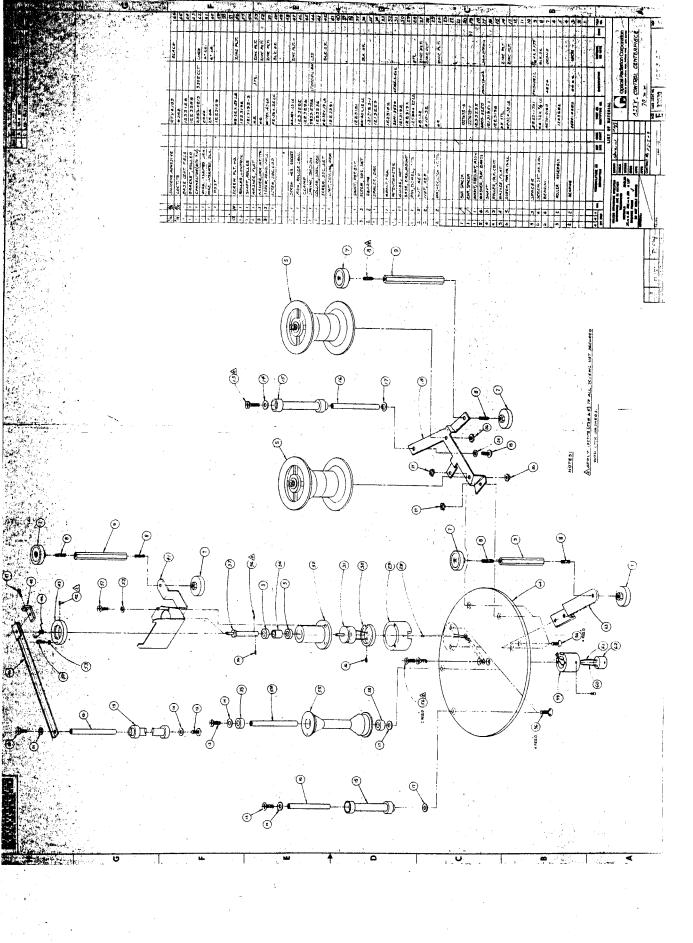
## <u>Platter</u>

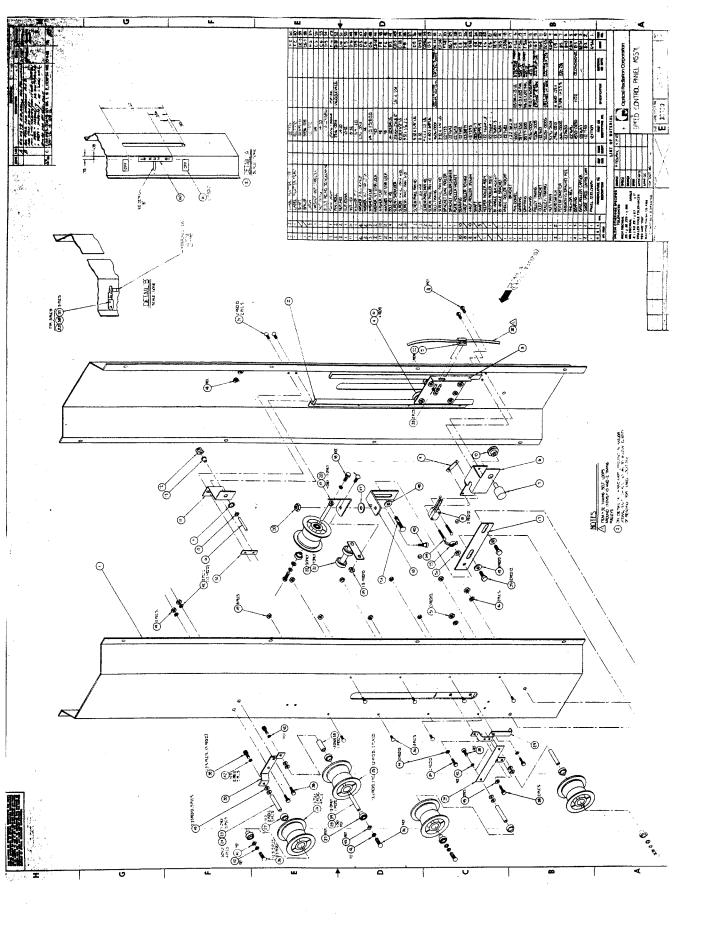
- 1. Disc light bulbs.
- 2. 3 Amp C/B and 5 Amp C/B
- 3. 2" dia. roller with bearing and hub insert.
- 4. Take up ring.
- 5. Control centerpiece assembly.
- 6. Disc drive motor.
- 7. Take-up potentiometer 1k, 5 turn
- 8. Motor brushes.

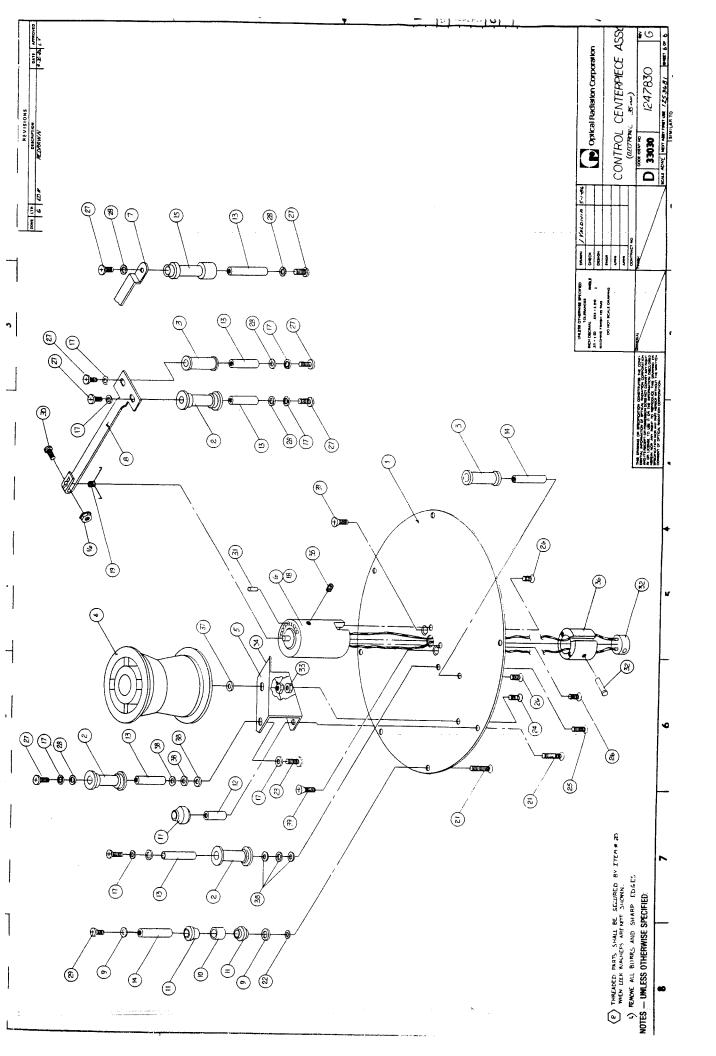
# Make Up Table

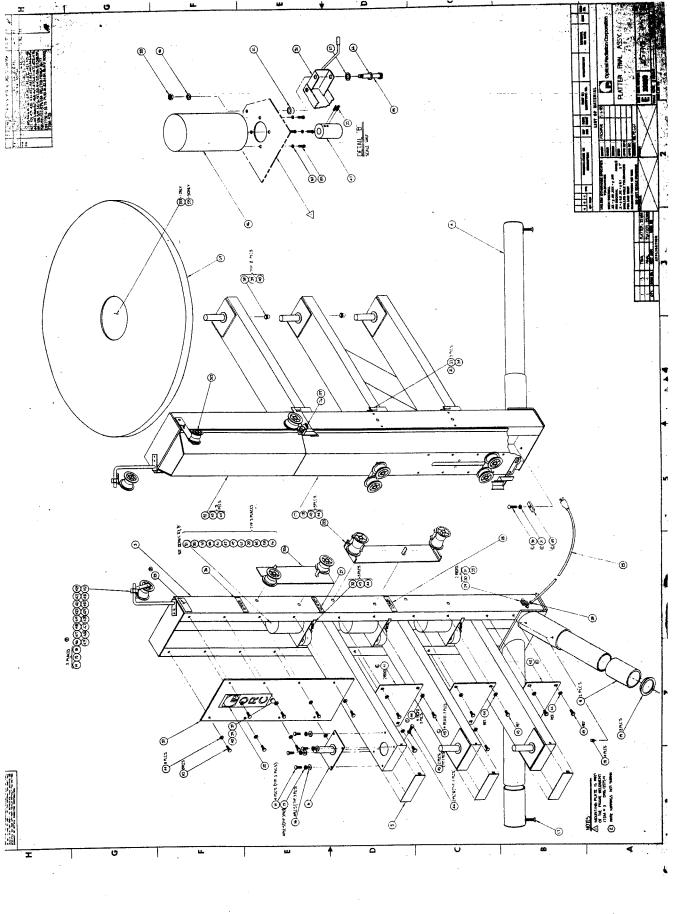
- 1. 1/2" spindle.
- 2. 5/16" spindle.
- 3. Reel retaining safety pin.
- 4. Reel drive pin.
- 5. Motor brushes.

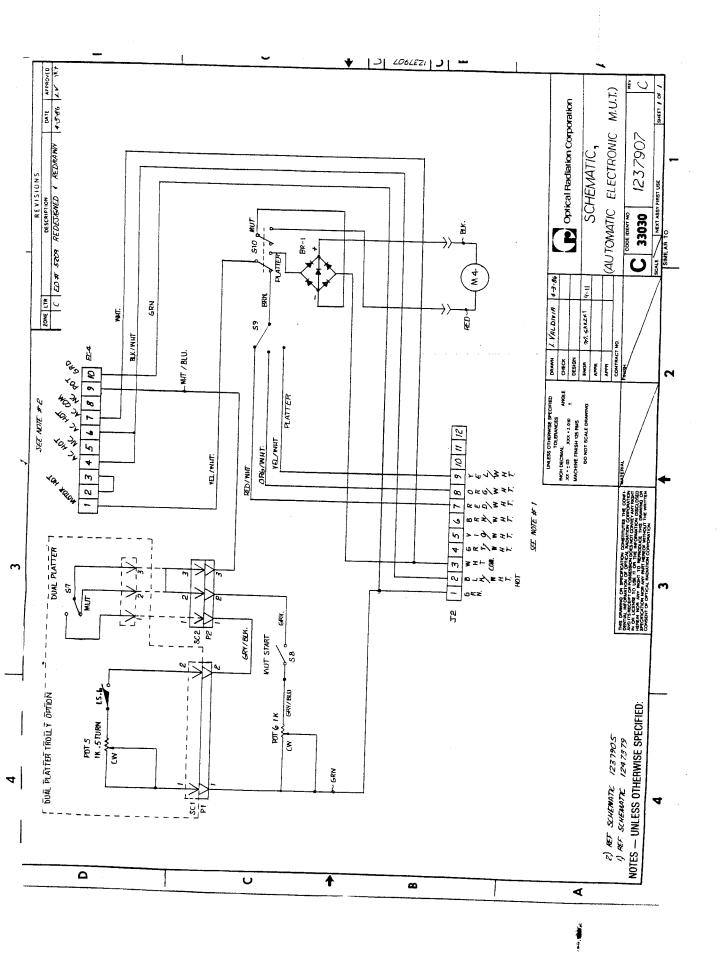


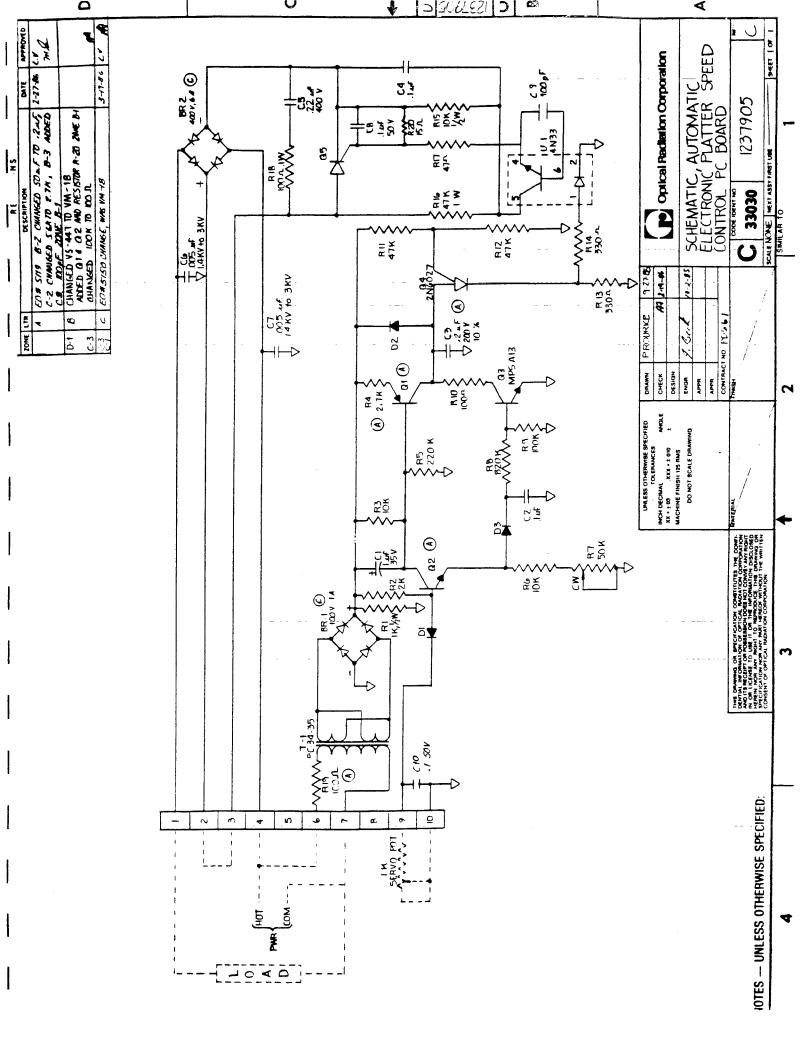


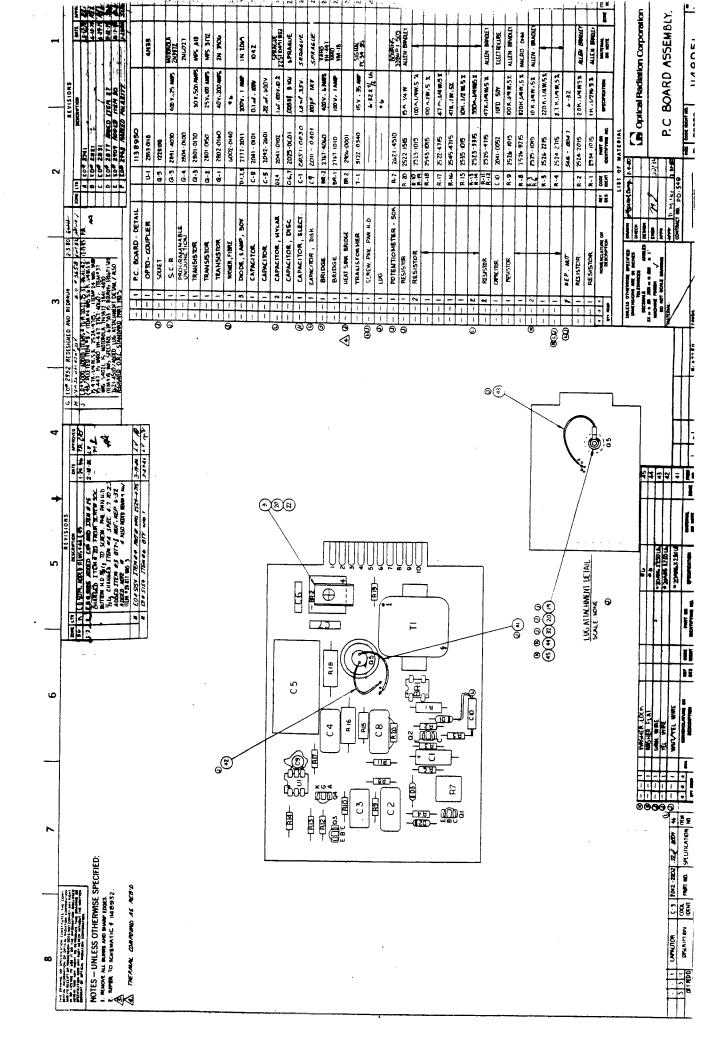












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<b></b>	COMPONENT	DESIGNATION								-				-	-								-					207701 G	•
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	UWG NO PART NO	49.57 + 3/8			#8:2x / //8-6 5				1247704 6	1247580 +	1234454	22.2	-00 11	14 8850.9	10/22	2.017661	12.394/	1-9025			0200-1	1224459 W	1-5030	41032× 1.03 66 3	122 7839-3 8			LP: Optical Radiation Corporation	74/4 141
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AND IT A DEVICE THE AND A DEVICE AND A DEVICE A DEVICA A DEVICA A DEVICA A	NO PART NO DESCRIPTION MANUFACTURER.PN 1257	THE FOLLOWING KEENER KOLLER NSSEMBLIES NO AN MED AN 192017 192070	7702-18-2 1247702 194 770	247830 2 1247831	27664-1 Kacper Kou	27669-3 KECTER KOLLER ASEN 7		27939-1 cerer couch	27339-5 SEPS 12. 18 HURCHEL N254		18039 ESPRING 222	 8.32 × 3/8 64 26×2 U PAN KNIC NO 2222	BRACKET	-1800	36-0019 -1-1-	1-1- 200-925	26 237	336-0016	256-0017 24NET 140EN							JOB NO PD 66 SIZE CODE [DENT NO]
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F	ITEM PI NO. CHG	· <b>/</b> /	2	м	4	ζ	9	2	S	6	250 E	2	~	4 B	Ś	6	2	8	6	260	/	. ~	5	4	265	[

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7-7	DESCRIPTION MANUFACTURER.PN		2				A A A A A A A A A A A A A A A A A A A			V 1/1 -	r ha	1 m	1/ /1			1/2 m	27.	17 M MIN 50	U 1 "	CARERALL DO A VAL	4 4		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2				JOB NO 200 100 200
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1.100 MANUFACTURER PN     1.124785       1.100 MANUFACTURER PN     1.127760-1       1.100 MANUFACTURER PN     2.127760-1       1.100 MANUFACTURER PN     2.127760-1       1.100 MANUFACTURER PN     2.111       1.100 MANUFACTURER PN     2.111       1.100 MANUFACTURER PN     2.111       1.100 MANUFACTURER PN     2.111	DESCRIPTION MANUFACTUREAEN DESCRIPTION MANUFACTUREAEN DESCRIPTION MANUFACTUREAEN DESCRIPTION MANUFACTUREAEN CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUMENER CLUM	INVESTIGATION MANUFACTURER PN INVESTIGATION PLANT PS INVESTIGATION PLANT PS INVESTIGATION PARTICULATION
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	HTEM NO.	175				·]- \	rd .	7 6		12		1				4	2	<u>)</u>		8	6	Sel.		7	n	4	265	•••	JAC FO

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	ITEM PI NO. CHG	366	2	90	6	370		22	2	4	51	9	7 5	× L	2	7	380		2	2	4 E	5 6	$\dot{\zeta}$	Z	Ø	6	390 E		ORC FORM NO. 14/4-147

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	ITEM PI NO CHG	416 F	417 F	418 F	419 F	420 F			423 F	424	425 F	426 F	427 F	428 F	429 F	430 F	431 F	432 F	433	434	435	436	437	438	439	440	0 -{ 2 -	ORC FORM NO. 74/4-14

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I'H'S DRAWING OR SPRIFICATION CONVILLIES THE FOMET DITA DATOR CAL RAVIELE THE FORM DITA DATOR CAL RAVIEL OF RECOMMENDATION DISCOMMENDATION DISCOMMENDATION DISCOMMENDATION DISCOMPOSE STATUSTICATION NOT ANY PARTICIPATION DISCOMPOSED STATUSTICATION NOT ANY PARTICIPATION DISCOMPOSED CONSTRUCTION DO POLICE ADDISCOMMENDATION	DESCRIPTION MANUFACTURER PN	Ċ		- 0 -	=	5CREW, 506, 5E1	ADJ. ROLLER ASS'Y TE IMM	ROLLER ASSIN 25																			ON BOL	Oralion SHEET 22 OF 25
1115. URAWING 01124 01124 01124 01124 01124 01124 0124 0	DWG NO PART NO	1238108-1	1238108-3	1238/08-5	1238108-7	10-32 X1/4 LG	1228074-1	1228074-3									-		-		-							DRM NO. 24/4-147
	ITEM PI NO. CHG	441 F	442 F	443 F	444 F	445 F		447 F	448	449	450	451	452	453	154	455	456	457	458	459	460	401	402	463	464	465		DAC FORM NO. 24/4-141

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IS UN IS UN AND IS WILLE AND IS WILL IN ON AN IN ON AN CONSENT OF ONA	DWG. NO PAHT NO	1238107-1	1238107-3	123 8107-5	123 8107-7	8-32 X 1/4 "LG.	10-32 X 1/4" LG.	1228166	1228074-1	1228074-3	-							-									· · · ·	LE Optical Radiation Corporation	14.147
	ITEM PI NO. CHG	466 F	467 F	468 F	469 F	470 F	471 F	472 F	473 F	474 F	475	4760	477	478	479	480	481	482	483	484	485	486	487	488	489	490			OBC FORM NO 74/4/14/

<b></b>	COMPONENT DESIGNATION	USED ON	1238078-1	1238078-5	123 8078-9	1238078 - 13	1	1238167 - 5	1238167-9	1238167 - 13	USED ON	1238078-3	1238678-7	1238078-11	1238078 - 15	1238167-3	1238167 - 7	1238167-11	1238167-15			SEE SHEET 14	SEE SHEET 14					e 1201101 6
E-101	15580	244 244									للي الم					-				2 -	- 2 -		-	1			SIZE CODE IDENT NO	<b>A</b> 33030
A MUNIN OF LIFE CONSTITUTE CONSTI	DESCRIPTION	ADJUSTABLE ROLLER ASST. 35 MM									ADJ USTABLE ROLLER ASSY 35/70 MM			•						HALF 35	HALF 35/70 h	KEEPER ROLLER ASSY 35 MM	KEEPER ROUER ASSY 35/70 MM	BRACKET, BI-ANGLE, 35 MM	BRACHET, BI-ANGLE, 35/70 MM	CLIP , SWIVEL	JOB NO PD 661	Inportation SHEET 24 OF 25
A WIN 1 NUL IS SECOND ANUL IS SECOND ANUL IS SECOND ANUL NO ANUL NO AN	DWG. NO PART NO	1228074-1									12280 14 - 3					والمحاوي المحاوي المحاوي المحاوي والمحاوم والمحاوم والمحاوم والمحاوم والمحاوم والمحاوي والمحاوي والمحاوي				1137595	1233671	- 1	1227664-3	1227684 -1	1227084-3	122 8071		LPI Optical Radiation Corporation
	ITEM PI NO. CHG	Ъ Г Г	Zbt	£93	194	495	1 1 1 1 1 1	1 1 1	8 46			100	7.05	503	504	505	<b>1</b> 06	105		+			512 F	513 F	5 <b>14</b> F	515 F	5	Le Optical

JRC FORM NO. 74/4-147

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		COMPONENT												-										-					1707701	
1-4 1-5	7L087 2087 20119	271 571			- (					- (																	-		<b>A</b> 33030	$\square$
3 URA R SHI DN CO ES IN AND TH RECEIPT ON POLS NOT CONFERENCE AND TH RECEIPT ON POLS NOT CONFUS ANY RECEIPT IN ORI CLASSE TO URE RECOVERATION DASS SHELF NOR ANY RECHT TO REAR DISTOR DASS SHELF NOR ANY PART HIRLOWILLOUS DAMME DR SHELF CATION NOR ANY PART HIRLOWILLOUS DAMME DR SHELF CATION NOR ANY PART HIRLOWILLOUS DAMME DR SHELF CATION NOR ANY PART HIRLOWILLOUS DAMME	DESCRIPTION ANNIGACTURED	MANUTACIONEN MANUTACIONEN PN	35 MM	35/70 MM		WASHER , BELLE VILLE			INT. TTH	PAN.																		JOB NO PD 661	SHEET 25 OF 25	
R 2411 0 1104 1 1104 1 1104 1 104 1 104 1 108 11 0 108 14 108 14 108 14 108 14 108 14 108 14 108 14 108 14 108 10 108 108 10 108 10 100 100 100 100 100 100 100 100 100			SHAFT	SHAFT	BEARING	WASHEI	SCREW	NUT, R	WASHER , LOCK	SCREW , PHILL	ADHESIVE												-		-				poration	
	DWG. NO PART NO	/	1213195-9	1213195 - 7	1218099	6016-0014	56AC-0207	5416 · 0060	# B	8-32 X 3/8 L6.	WELDON 1707	-									-							-	LPJ Optical Radiation Corporation	4/4-147
	ITEM PI NO. CHG	-#-			518 F	519 F	520 F	521 F	522 F	523 F	524 F	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	5		ORC FORM NO. 74/4-147

REV. SH. NO. C / OF IO	INC. BY APPD.								
DWG. NO. 124 7786	CONTRACTION	CHANGE DESCRIPTION							
FINAL	REVISIONS	APPD. LTR.	Contraction of the second seco	K					
TITLE MAKE-UP TABLE ASSY.	in 3-1-06	INC. BY INC. BY	IN	209 DELETED TTEM # 42 L.V					

REV. SH NO.			
dwg. nd. 124.7786	WW (		-
9 LARIFICATION CONFIGURATION DESCRIPTION	MAHE-UP TABLE ASSEMBLY. 35 MM " " " 35/70 MM		
ASSY. FINAL TABULATION CLARIFICATION	TABLE ASSE		
MAKE-UP TABLE	MAHE-UP " "		
TITLE MAKE	PART NUMBER 1247786 -1 1247786 -3		
·		 	

	TITLE	MAKE-UP TARY FASSY FMIRI	DWG. NO	0.0000	REV. SH. NO.	NO.
				1271100		s or i
		TABULATION BLOCK		QUANTITY		
ITEM	IDENTIFICATION NO.	DESCRIPTION	-/-3	-		
<b>`</b>		UPPER ADT. ROLLER ASSY		-	-	
	1237845-3		-		-	
			-	-	-	
34	1228001-5	ID PLATE (SIN)				
34	1228001-7	1~	-	-	-	
		1	-		-	
25	1237844-1	LOWER ADJ. ROLLER ASS'Y			-	
ß	1237844-3					
					-	
63	1128141-1	REEL PIN .50 DIA		-	-	
69	1128141-3	11 15 DIA			-	
65	1128142-1	" " .3/2 D/A.		-		
	-		-	-	-	
73		Keeper Buch 1854		-	-	
R	1227664-3	16			-	
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ORC FORM NO. 64/6-222	0. 84/5-222					

	E	TITLE MAKE	MAKE-UP TABLE ASSY., FINAL			рwа. ио	.547	10. 1247786		C .	84. NO. 4. OF 10
	-		PARTS	LIST							
		DATE	COPY TO PUR. DATE	STOCK DI	lte	JOB QTY.			JOB. NO.	40.	
ITEM PL		IDENTIFICATION NO.	DESCRIPTION	TAB	REMARKS	PREBILLE	PO REQ U	UNIT OTY OTY ISS'D	70 8/0 17	UNIT COST	EXTENDED COST
*	X 12	1237845-	UPPER ADT ROLLER ASSY	×			1	1			
N	•						- 				
Μ							-				-
4	Z	124 7695-1	MAKE-UP TABLE POST							-	
ſ	21	1-247694-1	MAKE-UP TABLE BASE							-	
9	72	1-21812-1	ARNESS					~			
7	Z X	1227870-1	CABLE ASSY.							-	
80	12	122 7792-1	ROULER BAR POST				-			-	-
6	60.	6075-0010	WHEELS 2 2 102 DAYTOW					N		-	-
10	12	1248165-1	MOTOR MOUNT			-			 		-
11	- h/	X4-20x .625 LG.	SCREW, HEX HD.					r F			
12	14 -	14-20X .75 LG.	SCHEW, HEX HD.			-		00		-	-
13	E-01	10-32 X .50 LG	SCREW, HEX SUC. HD. CAD		-	-	- • •	2		-	
4	5-01	10-32 X 1.25 LG	SCREW, PHR. PAN HD			-		N		-	-
15		Vy J.D.	NASHER, FLAT	-		-		0		-	-
16		X4 ±.2	WASHER, INTERNAL STARLOCK	*		-		11		-	-
17	124	1247609-3	MAKE-UP TABLE COVER	-		-	-				-
18	12.	1/2 ED. 1.00 0.D	WASHER, FLAT	-		-		9		-	-
19	1/4	1/4 - 20	NUT, HEX	-		-		8		-	-
20	-	2635-3103	ITIOMETER		POT-546	-	-			-	
-	X 123	1237876-1	M.U.T CHASSIS SILMSCREEN	EN			-			-	
2	•	1228160+1	MAIN SHAFT	-	-	-	-			-	
M	501	5000 - 0020	COLAR SHAFT	-		-	- 			-	
4	40	4052-0840	DRIVE, MOTOR	-							
ONC FORM NO.		6-210						TOTAL COST	COST	-	-

5 OF 10			EXTENDED COST				-		-				-	-	-	-	-				-	-	-	-	-		-	-
REV.			UNIT COST																			•					•	-
		ON BOL	017 ₿/0																								-	OST
786			T 0TY V ISS'D			-											0											TOTAL COST
10. 124 7786				~		<u> </u>		• · .		N				N		4	Q	4	4	2		0	1	4	2		5	. 2
р <b>ма.</b> NO.		<b>JOB α</b> ΤΥ.	PRE PO BILL REQ							   .																		
0			REMARKS B				-		BR-1		S7	S9											TB-1		-		-	
	st	оск ра	TAB										×							56			,					
MAKE-UP TABLE ASSY.		COPY TO PUR. DATE REL. FROM STOCK DATE	DESCRIPTION	ANDB	. HNDB	GROUNDING BAR WI LABEL	STRAIN RELIEF		BRIDGE RECTIFIER	BRONZE PILLOW BRACKET	HZLIMS	SWITCH , ROTARY	ID RATE (S/N)	NUT FACE		SCREW. PHIL PAN HD.	WASHER, INTERAL STAR LOCK	NUTSERT	NUT. HEX	BUT, R.D. HD . SO NECK CARRIAGE	•	WING HD. SCREW /2-20 1.7546	TERMINAL BOCK	SCREW, DHR. PAN H.D.	NUT ESNA	SCREW, PHIL PAN HD.	NUT, HEP	
		Y DATE	IDENTIFICATION NO.	5325-0020	5325 - 0190	2474-0121	5236 - 0004		2767-4101	4596 - 0019	2957- 1130	2966 - 0016	1228001-	2960-4100		10-32 X .375 LG.	<i>01#</i>	28-01	5/10 - 18	5/K-18 X2.75		5706 - 0211	3062- 1250	4-40 X .375 L6.	4-40	10-32 X . 625 26.	10-32	M NO. 6-219
		ISSUED BY	ITEM PL	25	26	27	28	29	30	-	2	Ð	+	5	9	7	B	6	40	4/	2	ſ	4	א	9	7	B	ORC FORM NO.

a sa sa sa sa sa

					DWG. NO	1.				REV.	SH. NO.
	MAK	MAKE-UP TABLE ASSY.				2	129/186	186		Ø	6 OF10
		PARTS LI	LIST								
ISSUED BY	y DATE	COPY TO PUR. DATE REL. FROM STOCK DATE	TOCK DA	TE	JOB QTY.	۲۷.		<u>ç</u>	JOB. NO.		
ITEM PL	L IDENTIFICATION NO.	DESCRIPTION	TAB	REMARKS	PRE BILL	PO REQ			01Y B/0	UNIT COST	EXTENDED COST
49						1	1				
50 X	1237844	LOWER ADT ROLLER ASSY.	×			<u> </u>					
•			-								-
2	1238164-1	BEARING CARAIER								-	-
ŝ	10-32× 50 66	SCREW, PHIL PAN HD.				<b> </b>	1			-	
4				-			 	-		_	-
S	1227789-1	ROLLER BAR		-		<b>†</b>	N		$\left  \right $	· ·	
9	4910 - 0010	CAP					2		 	-	-
2	3506 - 0017	MULTI PURPOSE GRIP	-							-	
80	1-1282221	HANDLE BAR	-	-						-	-
9	5206-0014	PULLEY, TIMING	-	-						-	
60	4606 - 0007	BELT, TMING	-			-				-	-
•	1227986-1		-	-							
8	1227986-2	HANDLE BRACKET (LEFT)	-				-			-	-
m	1128141-	REEL DIN . 50 DIA.	×			<b>-</b>				-	-
4			-	-		-	-			-	-
ك	1-2412-1	" " " 372 DIA.	×	-		-				-	-
9	5516 - 0023	PIN . CLEVIS	-			-	2			-	•
7	2304 - 0320	PIN, COTTER	-			-	N			-	-
8			-			-	-		-	-	-
0		· · ·	-			-	-			-	-
20	122 808 7	LABEL , BREAKDOWN INSTR.			-					-	-
			-	-	-	-	-				-
N				-	-	-					-
ONC FORM NO.	M NO. 5-218						TOTA	TOTAL COST		-  	-

	C MAKE	MAKE-UP TABLE ASSY.		<u>``</u>	NG. NO.	247.	DWG. NO. 1247786		C.	84. NO. 7 OF 10
			LIST							
ISSUED BY	DATÉ	COPY TO PUR. DATE REL. FROM STOCK DATE	TOCK DATE	or	<b>јов ат</b> у.			JOB. NO.	o.	
ITEM PL	IDENTIFICATION NO.	DESCRIPTION	TAB REMARKS		PRE P	PO UNIT REQ OTY	τ ατγ γ iss'd		UNIT COST	EXTENDED COST
73 X	1227664	NEEPER ROULER AST	×							
74						-	-			
5			-			-	-			
9			-			-	-			
~	8-32	NUT, KEP	-					-		
8							-	-		
9						-		-		
80	29666-0019	SWITCH DPDT	S-10					-		
-	2231-1012	COMNECTOR, EDGE	6-23	-			-	-		
N	#8	WASHER .INT STAR LOCK	-			<b>N</b>	-	-		
£			-			-	-	-		•
4			-			- 1		-		
5	-		-			- *	-	-		
Ø		•	-	-				-		
2	8-32 x .2566	SCREW, SET		-			-	-		
в	10-32 X .2526.	*	-	-		ß	-	-		
Q	1128139-1	REEL DRIVE DEL	-	-			-	-		
06	1128270-1	N/0 " "		-				-		
/	8-32× 625 LG	SCREW PHIL PAN HD.		-		2		-	•	
N	1227877-1	CORD HUDER.		-			-	-		•
<b>^</b>	8-32 × . 625 26.	SCREW, PHIL PAN HD.	-	-		-	-	-	-	
4			-	-		-	-	-	-	
5	-			-		-	-	-	-	-
9	-		-	-					-	•
OFIC FORM NO.	M NO. 5-219				×	F	TOTAL COST	OST	-	_

C	MAKE-UP	E-UP TABLE ASSY.				Q	1247786	786	. •	Ø	8 OF 10
			PARTS LIST								
SSUED BY	DATE	COPY TO PUR. DATE	REL. FROM STOCK DATE	ATE	JOB OTY.	ι <del>τ</del> Υ.		<b></b>	JOB. NO.		
ITEM PL	IDENTIFICATION NO.	DESCRIPTION	TAB	REMARKS		PO REQ		017√ ISS'D	217 0/8	UNIT COST	EXTENDED
			•		-					-	
										-	
-	1250 - 0321	PLUG. BUTTON			-		~				
	4856 - 0006	PLUE, BUTTON			-		4			-	
$\overline{\mathbf{X}}$	1-1248451-1	ASSY, P.C. BOARD			-		-			-	
	5822 - (62) )	SPACER, 1/4HEX BRASS 5/816. 63	6-32 THRD		-		-				
	6-32 X .375	SCREW, PHILL PAN HD.			-		4				
<u> </u>	#(D	WASHER , INT. STAR LOCK			-		4	  -			
	2231 - 1010	RECEPTACLE, P.C.B.			-		-	-			
	4-40	NUT, KEP		-	-		5	-			
-	1228248-1	BRACKET		-	-		-	-			
	الازمان الاست. الازمان الاراسية				-			-		-	-
					-			-		-	-
				-	-		ž	-	-	-	-
	_				-			-	-	- •	-
	1228159-1	COUNTER SHAFT			-		~	-	-	-	-
<u> </u>	1228150-1	DRIVE MOTOR CLAM DING	PLATE		-		~	-	-		-
	5509-5717	PIN, SAFETY		-	-		~	-	-	-	-
	5508-1205	12501	.50029.	× .			Ч	-	-		-
	1-2618221	PULLEY, TIMING	-	-	-		1	-	-	-	-
	4606-0006	BELTTIMING	-	-	-		1	-	-	-	-
	4576-0009	BEARING, FLANGED	-	-	-		2	-	-	-	
	10-32 X. 25 69.	X		-	-		4	-	-	a de la constante de la constan	
120	5 \$000-0010	COLLAR , SHAFT	-		-	-	マ	-	-		
ONC FORM NO.	6-219	4					Į	TOTAL COST	· · · · · · · · · · · · · · · · · · ·		-
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