

Film-Tech

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ESP-3

Electronic Platter Manual

CFS/Rentec

ESP-3

- Electronic Platter Manual -

CFS/Rentec, Inc.

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Section 1. Introduction

1.1 General Description

The *ESP-3* is a fully electronic platter which requires minimal personnel attendance to operate. By using sensors and other electronic devices, the need for mechanical parts like swing arms has been eliminated. This minimizes any chance of error with the *ESP-3*. The one-handed threading simplifies use of the *ESP-3* even more. The threading diagram of the center feed plate has been imprinted directly onto the plate to eliminate any errors for proper sensor reading.

The *ESP-3* will, after film has been threaded, operate itself for the duration of the event. By controlling the motor with a combination of a sensor on the feed-out plate and an optical sensor on the accumulator, the *ESP-3* can regulate the speed of the dish for a smooth pay-out of film. The threading of the feed-out / take-up mechanism on the *ESP-3* is quite simple. The number of rollers have been decreased from the conventional platters by making the side rollers to guide the film to and from the dish moveable. These rollers will slide up or down the rails and will lock into position for the appropriate dish location. When the rollers are located at the appropriate dish, the *ESP-3* platter will automatically sense this and switch to the desired action, whether it be take-up or feed-out. The LED status display will show which event each dish has been selected for (see figure 5).

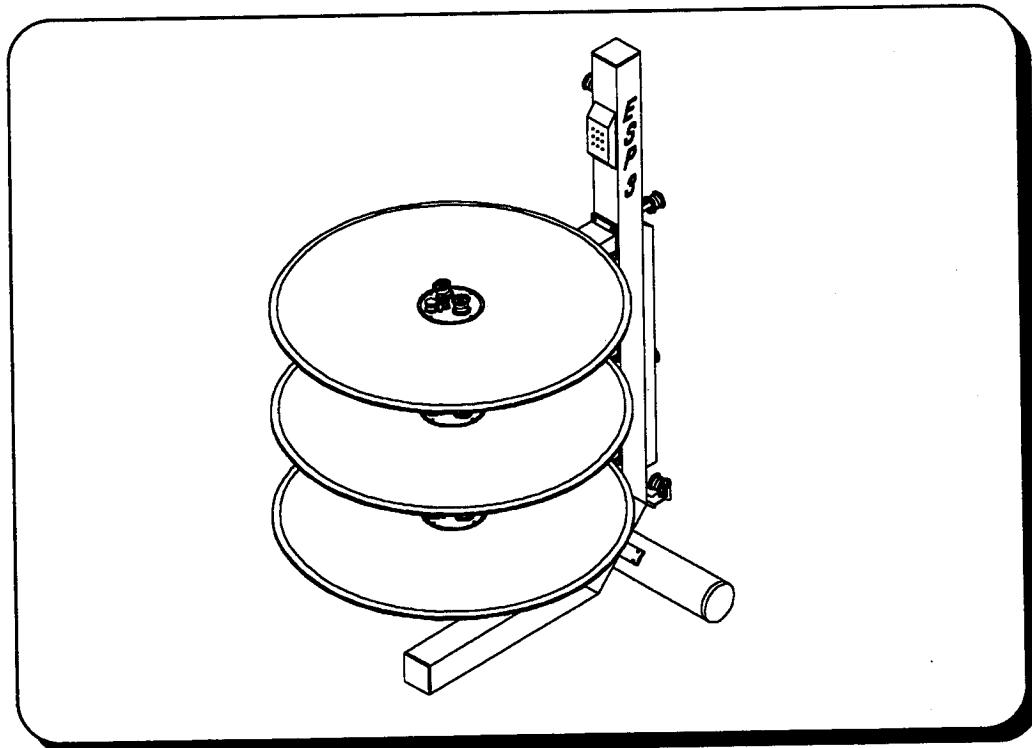


Figure 1, ESP-3 Platter.

Section 2. Installation and Setup

2.1 Initial Power-up

When the ESP-3 arrives, the post assembly and dishes will come in separate boxes. Remove from containers and install the leg to the bottom of the post. Set the post upright and using a level, straighten up the post.

Install the three dishes by setting them on the spindle at the ends of each arm (see Section 2.2). Place the centerpiece assembly in the middle of the dish. Rotate the centerpiece gently until the connectors mate with each other and the plate will fall down into place and lay about the same height as the top of the dish.

Plug in all motors at the jacks, either on the face of the post under each arm or on the side of the post. *Note: The jacks located on the arms are for make-up table only.*

After assembly has been completed and all connections are made, make sure the Main Power Switch is turned to the OFF position and plug in the main power cord to the proper single phase voltage source (depending whether U.S. or foreign requirements).

2.2 Dish Installation and Setup

The dishes are made of aluminum. If dropped, they will dent. To place dishes on to the spindle located on the end of the arm, you will need two people. First, pull the motor back until it locks on the catch assembly. With each person facing the other on opposite ends of the dish, set the dish on the spindle. Gently rock the dish and let it slide down the spindle until it stops. After the dish has slid down and is resting on the base of the spindle, release the motor catch and the rubber drive wheel will land against the vertical drive surface of the dish.

2.3 Make-Up Table Link

The MUT-3 make-up table needs to be connected to the ESP-3 to operate correctly together. There are connector jacks located on the side of each arm of the ESP-3. Plug the supplied cable on the make-up table into the jack on the dish. This tells the ESP-3 that specific dish will now be used and controlled by the make-up table. Plug the power cord into the correct single phase voltage source (depending whether U.S. or foreign requirements).

Section 3. Operation

3.1 Main Controls and Breakers

The main power switch is located on the top rear of the ESP-3's post. This switch allows all power to flow into the machine. The Main power circuit breaker for the transformer along with the three others for the motor circuit boards are located adjacent to the main power switch in the same location (see figure 2). The circuit breakers should never need to be serviced. If CB1, CB2 or CB3 have been tripped, call a service technician.

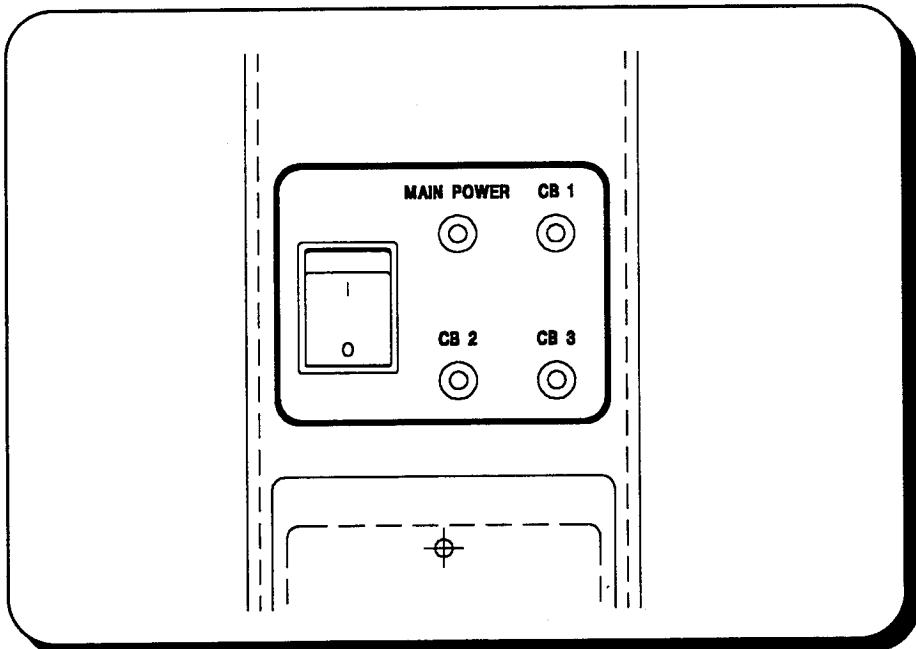


Figure 2, Main Controls and Circuit Breakers.

3.2 Motor and Drive Assembly

The motor and drive assemblies are located under the dish and are mounted through each arm. The rubber wheel attached to the motor, drives a vertical surface under the dish with tension applied to it by a torsion spring. This spring keeps the proper amount of pressure applied to the drive surface to eliminate any slipping due to tension.

To disengage the motor assembly from the drive surface, a catch has been supplied for each arm. When the motor is pulled back, the catch will capture the motor and hold it until the catch has been released. By depressing the raised button on the catch, the motor will come back into contact with the drive surface (see figure 3).

NOTE: There is tension on the motor assembly. Hold the motor and guide it slowly to regulate the speed of engagement after releasing the catch.

NOTE: The motor assembly must be disengaged from the dish when using the make-up table for film dismantling.

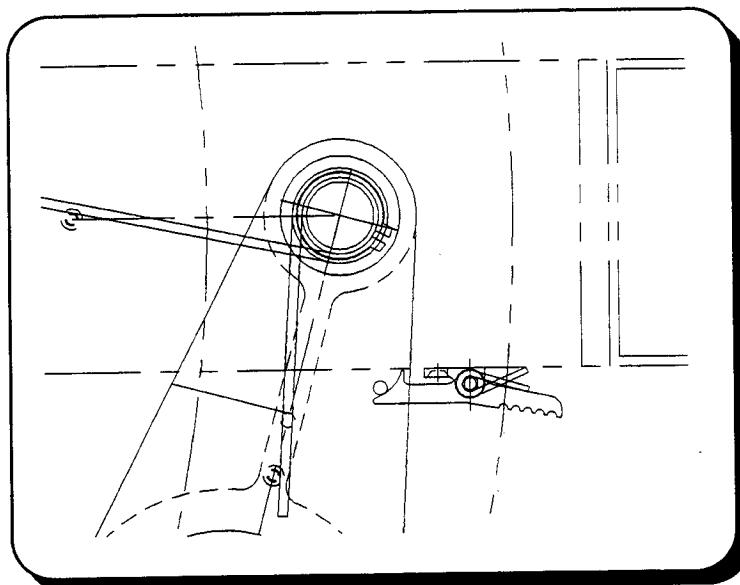


Figure 3, Motor Catch Assembly.

3.3 Accumulator

The accumulator, located at the rear of the ESP-3, regulates the speed of the take-up motor. The optical sensor reads the location of the accumulator slide roller and will compensate by adjusting the motor rate. **Note: Operator should never touch grayscale with bare hands.**

3.4 Take-up / Feed-out

The Take-up / feed-out assembly consists of a series of rollers of two different colors (refer to threading diagram drawing 202-0010). The gray series of rollers lie primarily on the rear face of the post and are for take-up threading only from the projector to the A-500 take-up ring. The black series of rollers lie primarily on the side face of the post and are for feed-out threading only from the center feed plate to the projector. The side rollers relating to each dish will slide. The closest slide roller to the dish is gray in color and should be moved to the dish that will be taking-up the film. The slide roller located to the side rear is black in color and should be moved to the dish that will be feeding-out the film.

The take-up section requires the A-500 take-up ring to be mounted with its pins through the holes located in the dish. The first 3 to 4 inches of film needs to be inserted into the split in the ring. After the pins are pressed into the dish's locating holes, the film will be locked into the ring. The dish will now be properly set up for the take-up procedure.

The feed-out section requires the center feed plate assembly (see Section 3.5) to be installed in the dish being used for the feed-out process. NOTE: The center feed plate can be removed and located on another dish for that dish to be used for feed out and can be left in the dish being used for take-up.

3.5 Center Feed Plate

The center feed plate assembly (see figure 4) is the mechanism that controls the rate of speed the film travels off the dish. There are two center feed plate assemblies per ESP-3 platter. The infra-red sensor detects the location of the film loop and adjusts accordingly. The threading path for the center feed plate is silkscreened right onto the plate for ease of threading but can be also found on the threading diagram drawing 202-0010. NOTE: The center feed plate can be removed and located on another dish for that dish to be used for feed out and can be left in the dish being used for take-up.

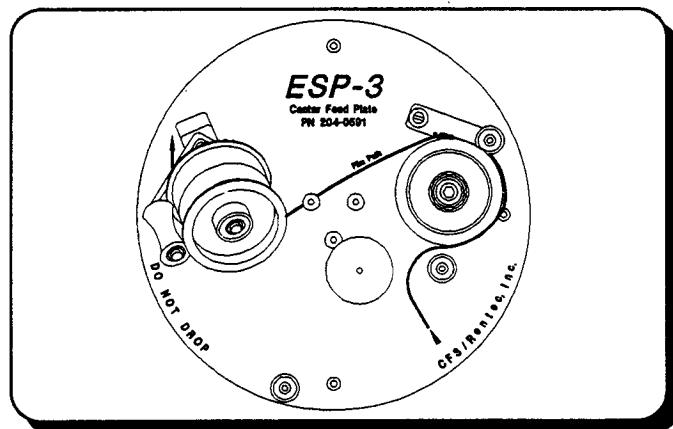


Figure 4, Center Feed Plate.

3.6 LED Status Display Panel

The LED status display panel (see figure 5) indicates each dishes operating mode. Using three different colors of LED's, the operator can easily determine the operation:

Green.....Feed-out.

Yellow.....Make-up.

Red.....Take-up.

Green Blinking..Feed out plate not properly installed or not working.

Red Blinking.....Accumulator droped down to off position or anytime take-up is off.

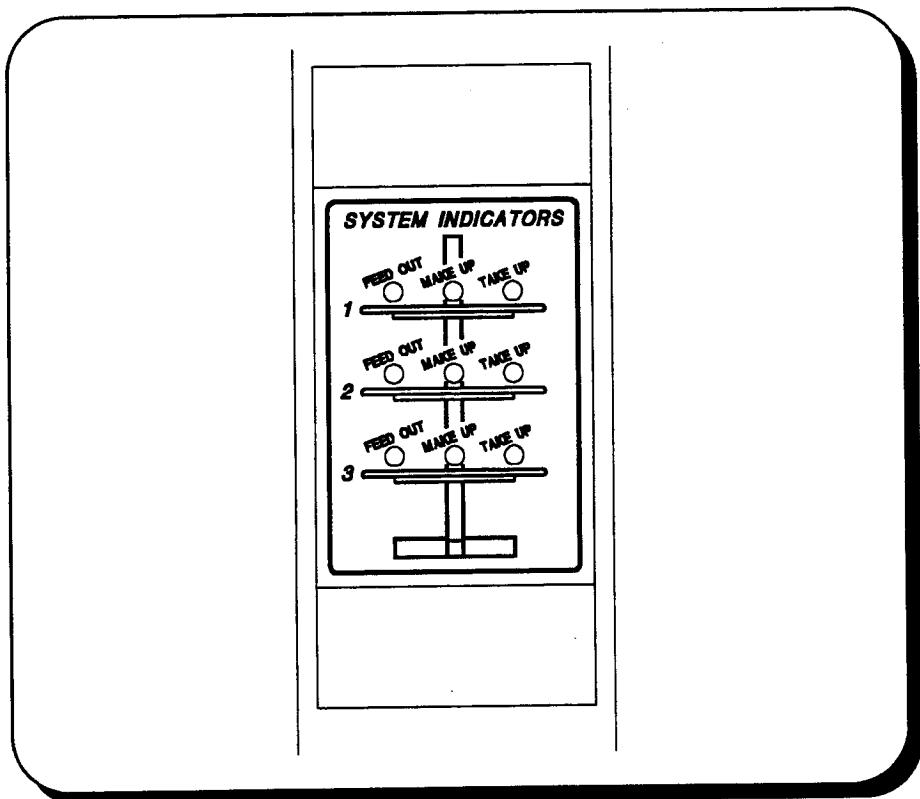


Figure 5, LED Status Display Panel.

3.7 Rear Access Panel

The rear access panel allows access into the electronics cavity where the main central processing board is located. This can be accessed by turning the fastener 90 degrees and the panel will hinge downward. NOTE: This area should only be opened and serviced by a qualified technician. No serviceable parts inside.

3.8 Fail Safe Roller

The fail safe roller is mounted on the lower side of the ESP-3 platter post. The film is threaded around this roller (see drawing 202-0010). When too much tension is applied to the film, the roller will engage a switch sending a closure to the customer supplied automation or projector control.

3.9 Make-Up Table

The MUT-3 make-up table is a system that will allow the transferring of reels of film to the ESP-3 platter or transfer the film back on to a reel from the ESP-3. It can also be used to transfer from reel to reel or to slowly view an area of the film using the portable light box (PN 837 for 35mm or 837-C for 70mm).

When spooling film onto the ESP-3, the motor needs to be engaged for the MUT-3 to control the motor speed. The motor assembly must be disengaged from the dish when using the make-up table for film dismantling.

The MUT-3 make-up table needs to be connected to the ESP-3 to operate correctly together. There are connector jacks located on the side of each arm of the ESP-3. Plug the supplied cable on the make-up table into the jack on the dish. This tells the ESP-3 that specific dish will now be used and controlled by the make-up table. Plug the power cord into the correct single phase voltage source (depending whether U.S. or foreign requirements).

The controls on the MUT-3 make-up table consist of a Main Power Switch, a Take-Up / Make-Up Switch, and a Speed Adjustment Pot. (see Figure 6).

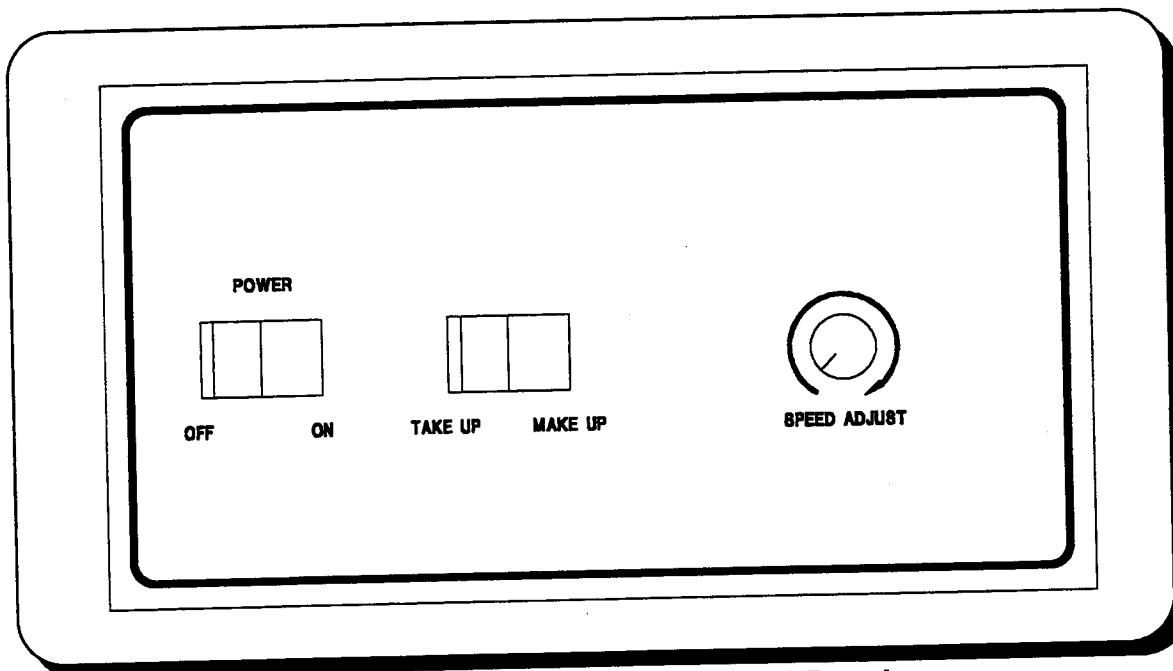


Figure 6, Make-Up Table Control Panel.

Section 4. Maintenance**4.1 Periodic Maintenance and Cleaning**

An overall cleaning is recommended for keeping all the sensors working properly and to keep the film from picking up extra dust. The dish should be wiped down at least every two weeks or when necessary depending on the film booth conditions. Do not blow direct air onto the sensors, rather, use a swab and some isopropyl alcohol and lightly clean the lens. Do not oil bearings.

Do not touch grayscale with bare hands and never use cleaning fluid or alcohol on it, this will ruin the image. To clean, wipe gently with a soft non-abrasive cloth.

4.2 Trouble Shooting Guide

Symptom	Suggested Remedy
No power	Check plug, main power switch, and main circuit breaker.
Dish not turning	Check motor for voltage. Check motor for engagement of drive wheel.
Circuit breakers tripped	Turn main power to OFF and reset the tripped breaker. Turn power back to ON and run as usual. If the circuit breaker trips again, contact service technician.

4.3 Sensor Adjustment

The sensors are located on each center feed plate assembly. This area should only be serviced by a qualified technician. No serviceable parts inside.

4.4 Motor Adjustment

The motor controller (drawing 204-0589) is located in the ends of each arm. This area should only be serviced by a qualified technician. No serviceable parts inside. If needs to be serviced, unscrew underside bolts and slide out. Disconnect the plug from the controller tray.

4.5 Central Control Board

Located on the post's upper rear door. This area should only be serviced by a qualified technician. No serviceable parts inside.

4.6 Aura Dish Light

The dish light located under the top two arms consist of a strip with 3 lamps. The PN for the strip itself is **IL/03/P1/IL5** and the PN for each lamp is **IL5** (See drawing 204-0592).

Section 5. Appendix (Listing of Drawings)

1	103-0001	Assembly, general, ESP-3 platter
2	600-0122	Schematic, ESP-3 platter
3	202-0010	Diagram, film path threading, ESP-3 platter
4	204-0593	Assembly, motor and drive
5	204-0613	Assembly, motor catch
6	204-0592	Assembly, dish light
7	204-0616	Assembly, failsafe roller
8	204-0536	Assembly, accumulator
9	204-0567	Assembly, take-up / feed-out
10	204-0591	Assembly, center feed-out plate
11	204-0589	Assembly, electronics tray
12	204-0605	Assembly, dish and hub
13	105-0002	Assembly, general, MUT-3 make-up table
14	600-0123	Schematic, MUT-3 make-up table
15	202-0009	Diagram, film path threading, MUT-3 make-up table
16	A-500	Assembly, take-up ring



This technical diagram illustrates a cross-section of a mechanical device, likely a pump or valve assembly. The drawing features several callout lines pointing to specific components:

- Callout A:** Points to a top-left component, labeled with circles containing numbers 9 and 16.
- Callout B:** Points to a central vertical rod or shaft, labeled with circles containing numbers 1, 10, 11, 12, 13, and 14. It also includes a reference callout REF.
- Callout C:** Points to a bottom-right circular component, labeled with circles containing numbers 1, 10, 11, 12, 13, and 14. It also includes a reference callout REF.
- Callout D:** Points to a bottom-left component, labeled with circles containing numbers 1, 10, 11, 12, 13, and 14. It also includes a reference callout REF.
- Callout E:** Points to a bottom center component, labeled with circles containing numbers 1, 10, 11, 12, 13, and 14. It also includes a reference callout REF.
- Callout F:** Points to a bottom right component, labeled with circles containing numbers 1, 10, 11, 12, 13, and 14. It also includes a reference callout REF.
- Callout G:** Points to a top center component, labeled with circles containing numbers 1, 10, 11, 12, 13, and 14. It also includes a reference callout REF.
- Callout H:** Points to a top right component, labeled with circles containing numbers 1, 10, 11, 12, 13, and 14. It also includes a reference callout REF.

Two additional labels provide context for the assembly:

- SEE SHEET 2**: Located near the bottom center of the diagram.
- REF 2**: Located at the bottom left corner of the diagram.

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ASSEMBLY,
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ESP-3 PLATTER

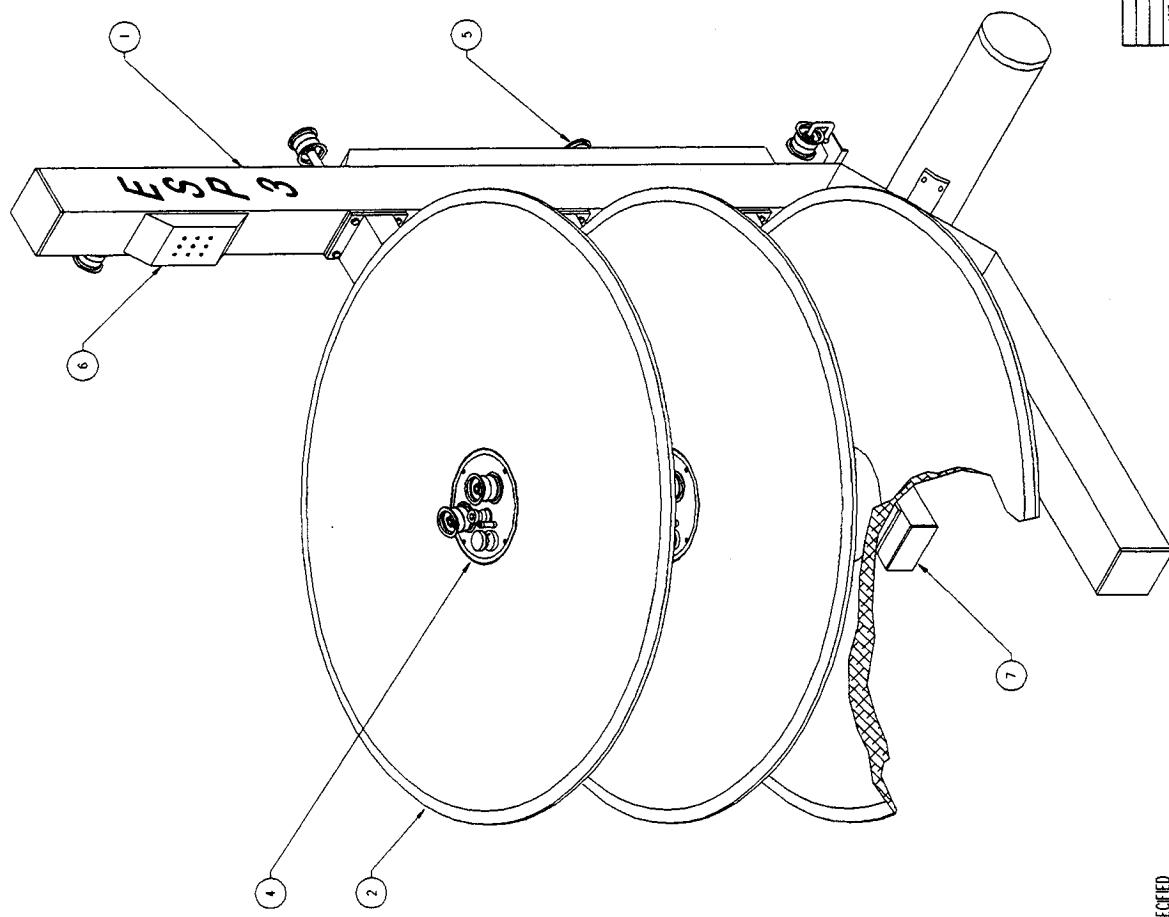
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MOUNTING HARDWARE TO BE USED AT NEXT ASSEMBLY LEVEL.
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1	5	204-0591	ASSEMBLY, REAR ACCUMULATOR				
2	4	204-0591	ASSEMBLY, FEEDOUT MECHANISM				
3	3	204-0593	ASSEMBLY, MOTOR DRIVE				
3	2	204-0595	ASSEMBLY, DISH SPANNING				
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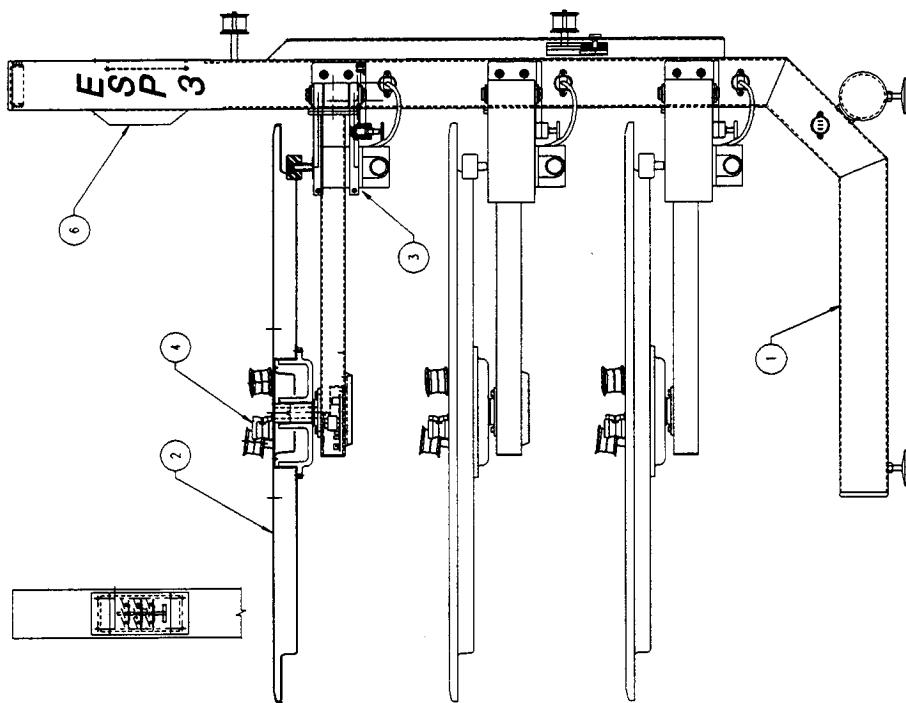
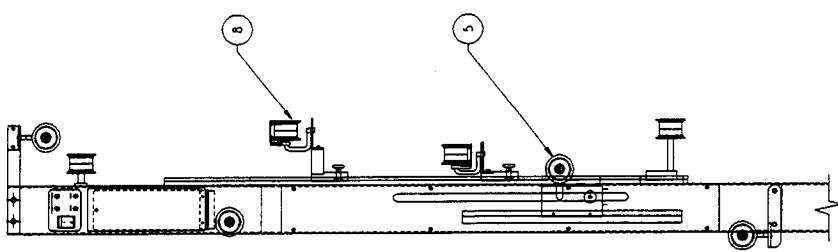
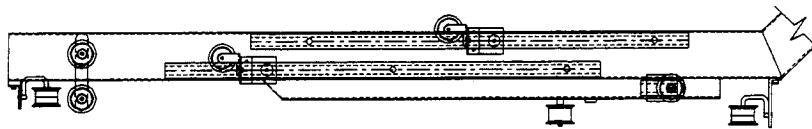
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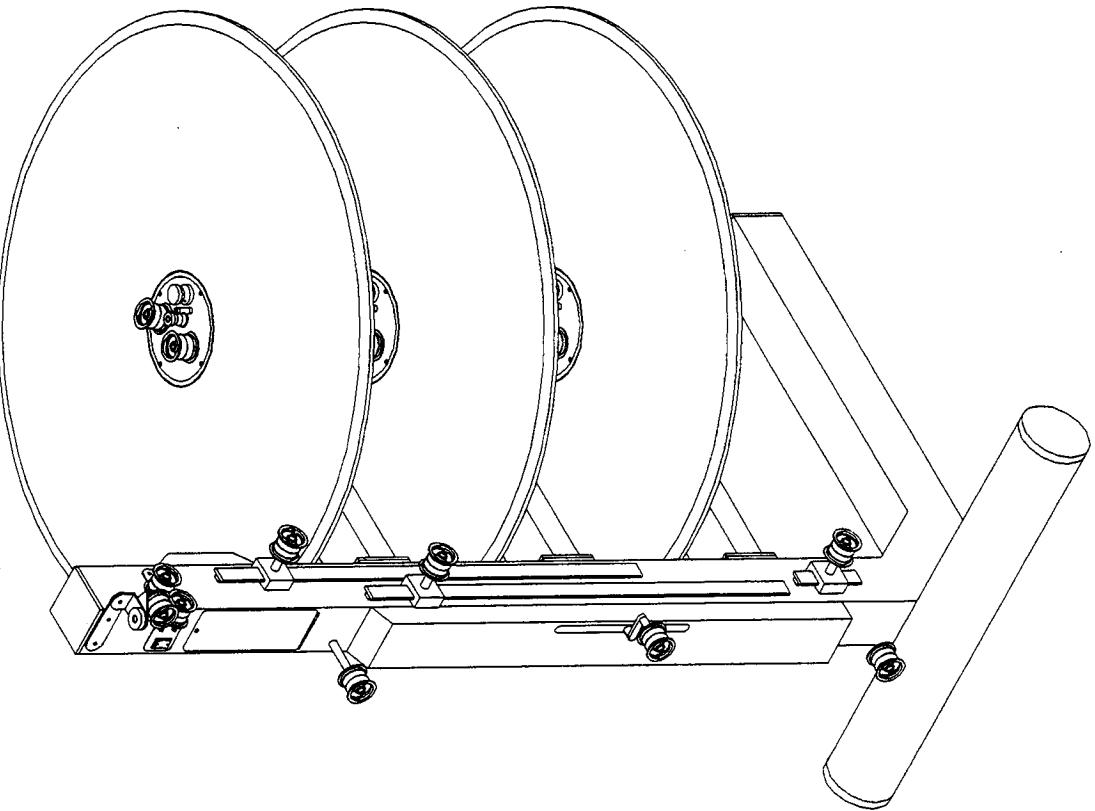
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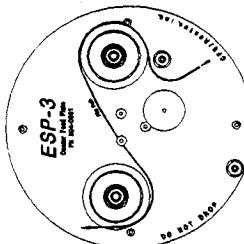
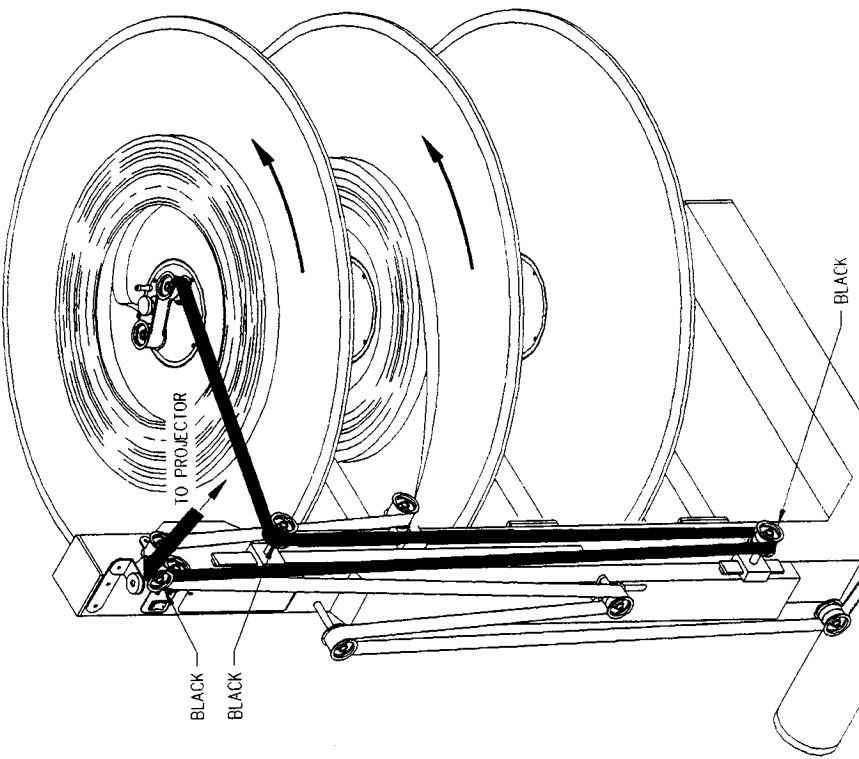
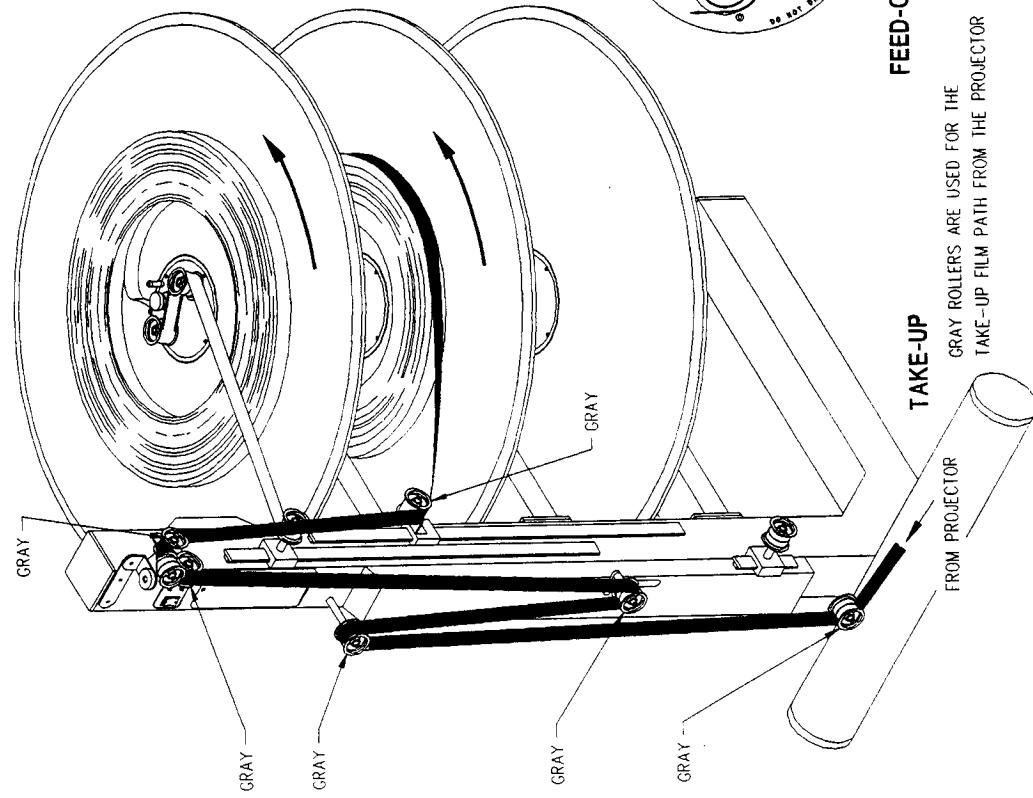


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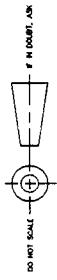
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LOCATION SHOWN

WIRGIN DRAWING PER ANSI Y14.5M-1981		SCALE: NONE	SET 0	DATE: 10-18-91
DRAWN BY: J. D. COOPER		DESIGNED BY: J. D. COOPER	REV: 1	UNIVERSITY
PICKED UP BY: J. D. COOPER		APPROVED BY: J. D. COOPER	10/16/91	PRINTED BY: J. D. COOPER
CHECKED BY: J. D. COOPER		REVIEWED BY: J. D. COOPER	10/16/91	10/16/91
APPROVED BY: J. D. COOPER		APPROVED BY: J. D. COOPER	10/16/91	10/16/91
APPLIED FOR: J. D. COOPER		APPLIED FOR: J. D. COOPER	10/16/91	10/16/91
INITIALS: J. D. COOPER		INITIALS: J. D. COOPER	10/16/91	10/16/91
THIS DRAWING IS THE PROPERTY OF WIRGIN INDUSTRIES INC.				
ONE COPY OF THIS DRAWING IS TO BE MAINTAINED IN THE WIRGIN LIBRARY.				
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED				
DATE DRAWING WAS PREPARED: 10/16/91				
DATE DRAWING WAS APPROVED: 10/16/91				
DRAWING NO.: 202-0010-D				
P/N NO.: 202-0010-D				
DRAFTS: Upland, Calif. SHEET 1 OR 1 REV 0				

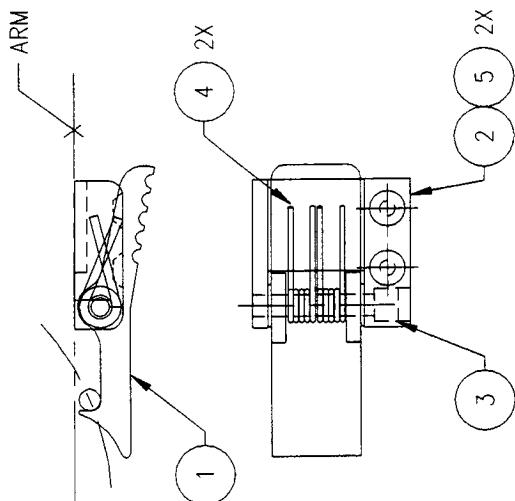
NOTES: UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DWG

DO NOT SCALE DWG



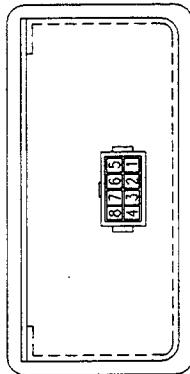
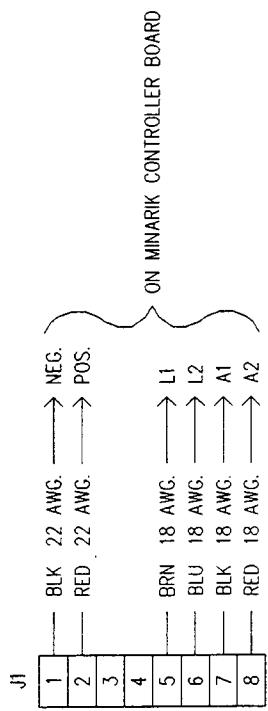
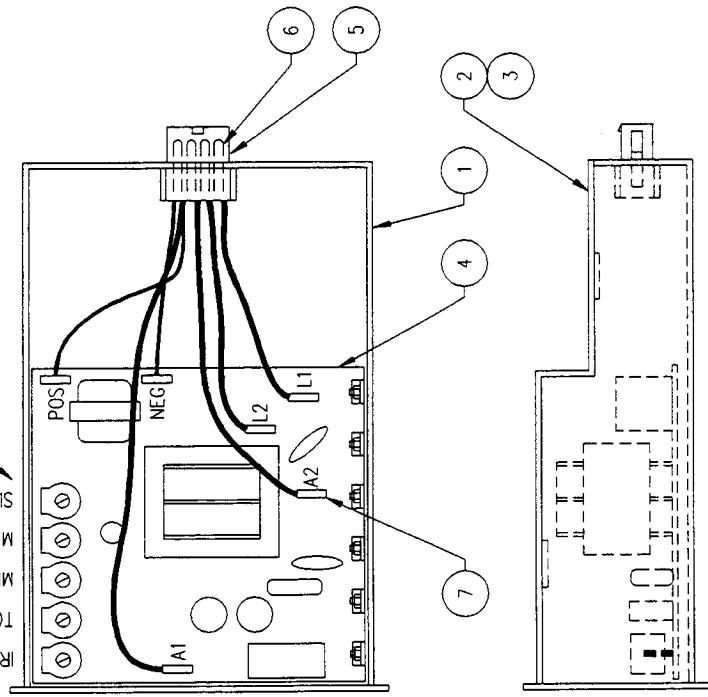
REVISED

REVISIONS				
REV	DESCRIPTION	BY	APPR	DATE
0	PRODUCTION REL.			



REVISIONS				
REV	DESCRIPTION	BY	APPR	DATE
0	PRODUCTION REL.			

✓ ADJ. POTS



NOTES: UNLESS OTHERWISE SPECIFIED

DO NOT SCALE DWG

PLACE DRAWING NO. IN
LOCATION SHOWN

1

REVISIONS		DESCRIPTION		BY	APPR	DATE																																																												
REV 0	PRODUCTION REL.																																																																	
<p style="text-align: center;">NO FLOW PLATE</p>																																																																		
<table border="1"> <thead> <tr> <th>ITEM NO.</th> <th>PART NUMBER</th> <th>MASTER PARTS LIST</th> <th>DESCRIPTION</th> <th>MANUFACTURER</th> <th>REF. NOS.</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>9792-00003</td> <td></td> <td>PIN, FEMALE, .093 DIA</td> <td>MOLEX</td> <td></td> </tr> <tr> <td>2</td> <td>375-1041</td> <td></td> <td>SCREW, #6-32 X .375, SOGFLTHD</td> <td>MOLEX</td> <td></td> </tr> <tr> <td>1</td> <td>793-00005</td> <td></td> <td>CONNECTOR, 2 POS.</td> <td>AURA</td> <td></td> </tr> <tr> <td>1'</td> <td>6 18-2-C</td> <td></td> <td>WIRE, 2 COND., CLEAR</td> <td>AURA</td> <td></td> </tr> <tr> <td>4"</td> <td>5 DST-3/8</td> <td></td> <td>TAPE, DOUBLE SIDED, 3/8" WIDE</td> <td>AURA</td> <td></td> </tr> <tr> <td>4"</td> <td>4 IL/03/P1/L15</td> <td></td> <td>STRIP, LAMP HOLDING, 1" OC</td> <td>AURA</td> <td></td> </tr> <tr> <td>3</td> <td>3 L5</td> <td></td> <td>LAMP</td> <td>AURA</td> <td></td> </tr> <tr> <td>1</td> <td>2 216-0174</td> <td></td> <td>COVER, LIGHT</td> <td>AURA</td> <td></td> </tr> <tr> <td>1</td> <td>1 210-1669</td> <td></td> <td>HOUSING, AURA, LIGHT</td> <td>AURA</td> <td></td> </tr> </tbody> </table>							ITEM NO.	PART NUMBER	MASTER PARTS LIST	DESCRIPTION	MANUFACTURER	REF. NOS.	2	9792-00003		PIN, FEMALE, .093 DIA	MOLEX		2	375-1041		SCREW, #6-32 X .375, SOGFLTHD	MOLEX		1	793-00005		CONNECTOR, 2 POS.	AURA		1'	6 18-2-C		WIRE, 2 COND., CLEAR	AURA		4"	5 DST-3/8		TAPE, DOUBLE SIDED, 3/8" WIDE	AURA		4"	4 IL/03/P1/L15		STRIP, LAMP HOLDING, 1" OC	AURA		3	3 L5		LAMP	AURA		1	2 216-0174		COVER, LIGHT	AURA		1	1 210-1669		HOUSING, AURA, LIGHT	AURA	
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<p><input checked="" type="radio"/> CONCENTRICITY UNLESS SPECIFIED <input type="checkbox"/> SYMMETRY <input type="checkbox"/> FLATNESS</p> <p><input type="checkbox"/> PARALLELISM <input type="checkbox"/> FLATNESS <input type="checkbox"/> DIMENSION LIMITS (+0.005/-0.010) BEFORE FINISH</p> <p>NEUTRAL POINT APPROVED</p> <p>APPROVAL APPROVED</p> <p>FINISH</p>																																																																		
<p>NOTES: UNLESS OTHERWISE SPECIFIED DO NOT SCALE DWG</p> <p>PLACE DRAWING NO. IN D/N LOCATION SHOWN</p> <p>1. DEBUR & BREAK ALL SHARP CORNERS</p> <p>The date in this drawing supersedes all previous drawings of this part. 1622 West 11th Street, Upland, California 91786</p>																																																																		

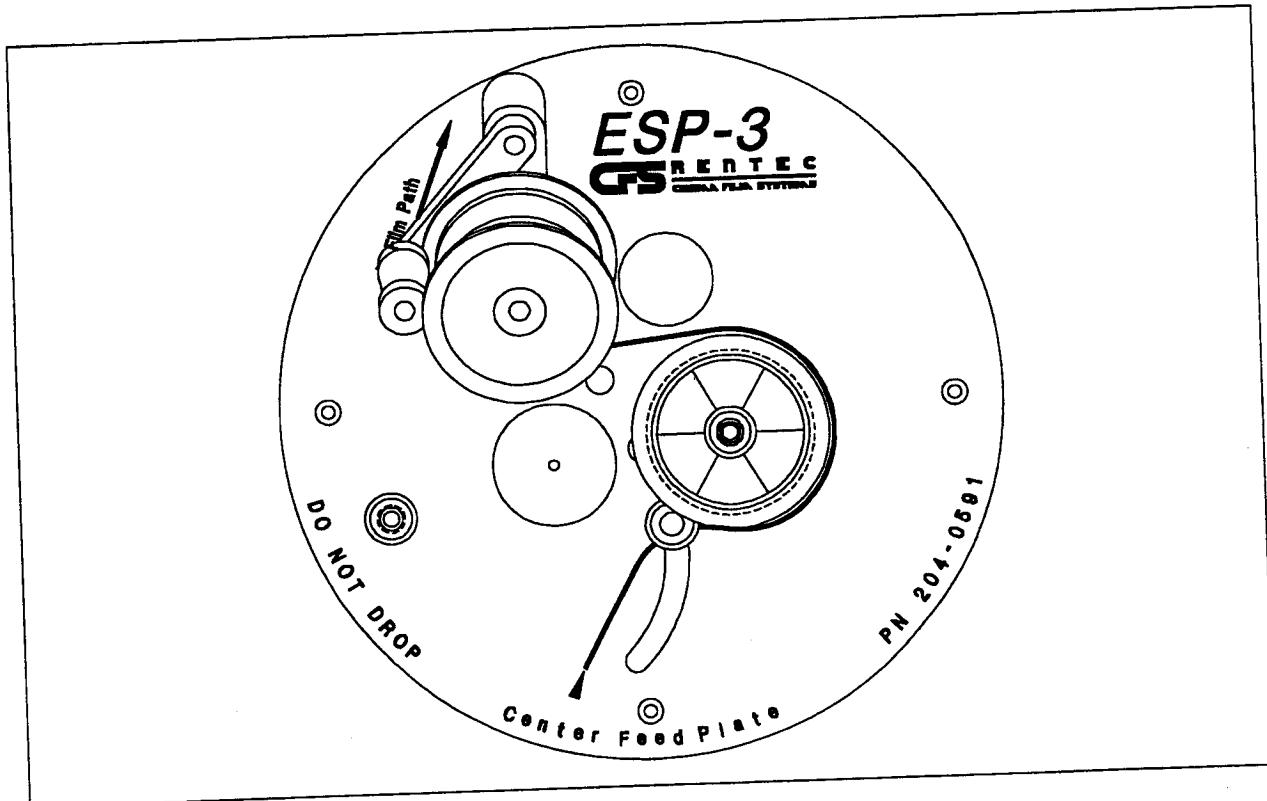
Platter feed-out head upgrade

This package contains the latest feed-out plate assembly upgrade (PN 204-0591) for the ESP-3 electronic platter.

This new assembly contains a motion sensor that allows the platter to operate only when there is film motion. This is a valuable new addition designed to counter any damage that could occur due to the new style polyester films currently being supplied by the studios.

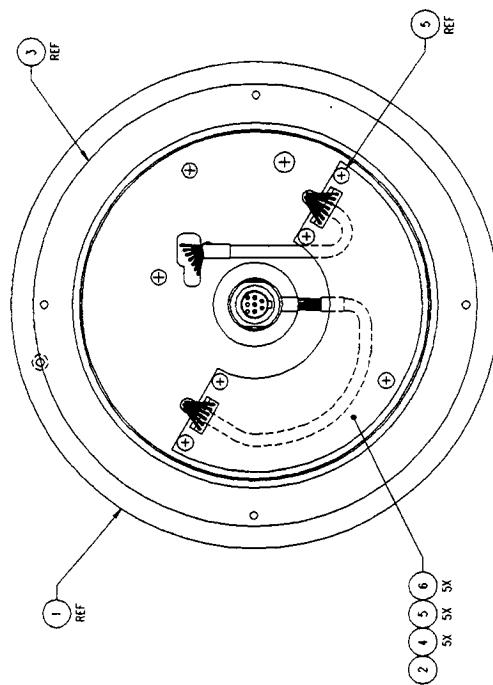
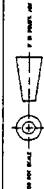
The installation of the plate is simple. Simply remove the old plate as you would for any dish transfer and replace it with the new assembly by dropping it into place. The installation is finished. **No further calibration is required and is not recommended.**

Upon initial installation the feed-out head will be in the off state. As soon as it senses film motion, it will turn on and activate normal operation. On shutdown, the sensor will automatically turn off after 5 seconds of no film motion.

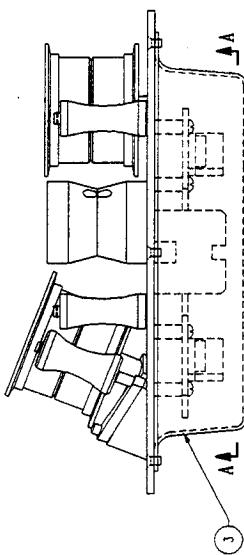
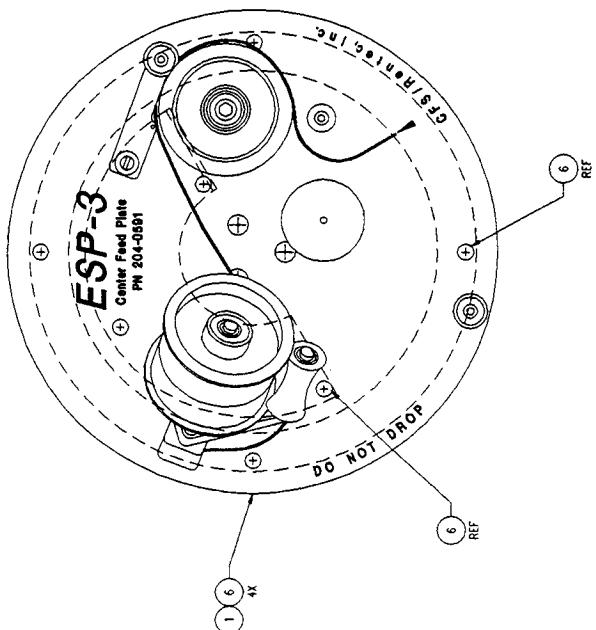


Please refer to the accompanying returned goods authorization form for proper handling of the old feed out plates.

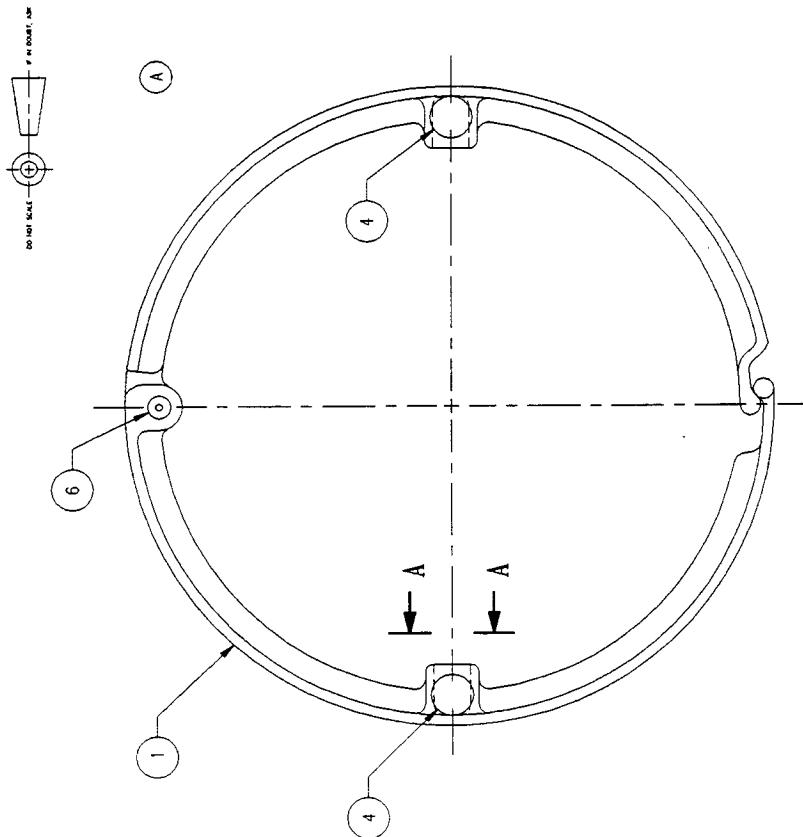
REV	DESCRIPTION	BY	APPR	DATE
0	PRODUCTION REL.			



SECTION A-A



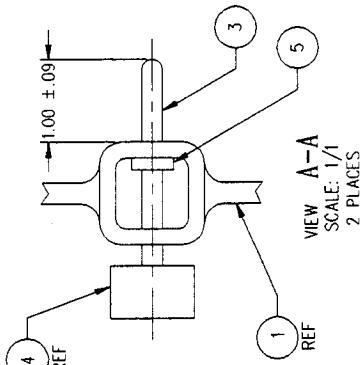
NOTES: UNLESS OTHERWISE SPECIFIED



REV	DESCRIPTION	BY	APPR	DATE
A	RESTRUCTURED CASTING & MACHINE DNG			
	PRESNTATION, ITEM NO. 2 (WM-12-100-2)			
	DEL -1 FROM ITEM NO. 1 P/N (WM-12-100-1)			



A vertical scale factor indicator symbol consisting of a downward-pointing triangle above a circle containing a plus sign, with the text "DO NOT SCALE" written vertically below it.



NEW A-A
SCALE: 1/1
2 PLACES

1	6	V-07-154	BOLT, SHOULDER, 3/8OD, 3/8 LG, 5/16-18 X 1 1/2			370161
2	5	M-10-113	RETAINER, PUSH PIN			
2	4	M-10-111	KNOB, PUSH PIN			
2	7	N/A	COLLET, SUGAR DIA.			

DWG. NO.		A-500	
DWG. TITLE		ASSEMBLY, RING, MAKE UP	
DWG. NO.		REN NO.	
SPECIFICATIONS		SPP-3	
CONSTRUCTION		CANOPY	
UNLESS OTHERWISE SPECIFIED		DIMENSIONS IN INCHES	
FLATNESS		$0.105 \pm .005 \pm .16$	
PERPENDICULARITY		APPROVED	
PARALLELISM		APPROVED	
FINISH		IRON	
<p>The above drawing is the property of The R. H. Donkin Company, Inc., at 1628 West 11th Street, Los Angeles, California 91760</p> 			

NOTICE. INN ESS AINBREWIE SEQUEL

PLATE DRAWING NO. IN
LOCATION SHOWN
D/N

PLATE DRAWING NO. IN D/N
LOCATION SHOWN
DO NOT SCALE DWG

NOTES: UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DWG

DO NOT SCALE DWG

NOT SCALE DWG

100K
LINEAR TAPER
CW CCW

TAKE UP

MAKE UP

3PDT

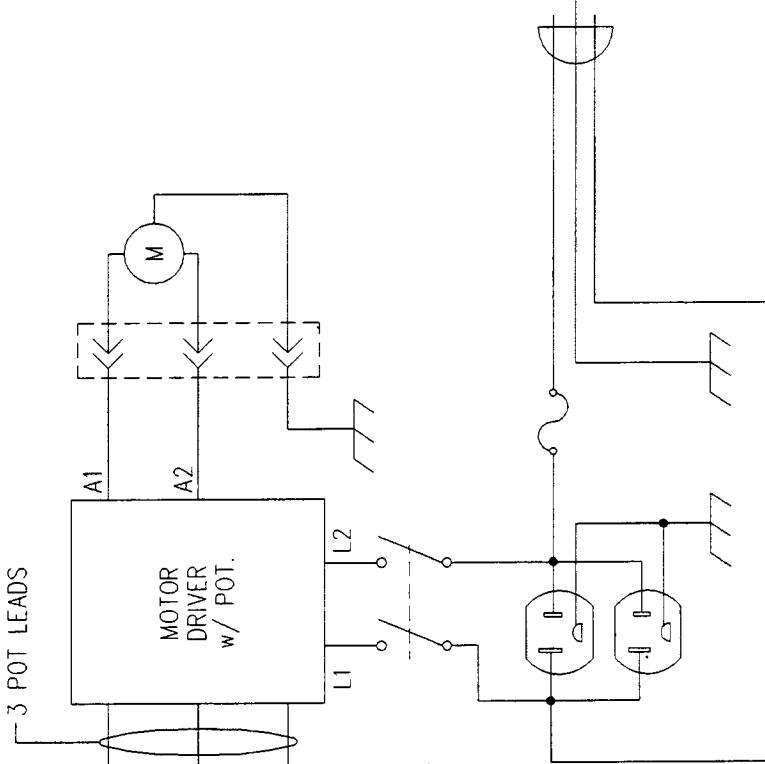
TO PLATTER

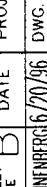
1 2 3 4

100K

REVISES

REV	DESCRIPTION	BY	APPR	DATE
0	PRODUCTION REL.			
A	REVISED FOR PLANE SCHM.	MDD		9/20/96



INTERPRET DRAWING PER ANSI Y14.5M-1982				SCALE	NONE	SHEET SIZE	B	DATE	PROJECT P-100-181	MPL #	DWG. NO.	DISK #				
<input checked="" type="checkbox"/>	CONCENTRICITY	UNLESS OTHERWISE SPECIFIED	xx	ANGLES	DRAWN BY DANNENBERG	6/20/96	DWG. TITLE	SCHEMATIC, MUT-3 MAKE-UP TABLE			600-0123-C	REVISION NO.				
<input type="checkbox"/>	SIMMETRY		$\pm .015$	$\pm .005$	1/16	CHECKED BY										
				DIMENSION LIMITS HELD BEFORE FINISH		APPROVED										
				MACHINED FILLET RAD. .015-.030		APPROVED										
				ALL DIMENSIONS ARE IN INCHES		APPROVED										
				FINISH												
TOTAL WT. _____																
<p>The data in this document incorporate proprietary rights of C's/RENTEC INCORPORATED 91 N. Benson Ave., Suite E, Upland, California 91786 Any party accepting this document does so in confidence and agrees that it will not copy or disclose the contents to others without the written consent of the above company.</p> 												SHEET	1	OF	1	REV
												AUTOCAD	00004070			

REVISIONS

Rev.	Date
0	APR 1987

DESCRIPTION

PRODUCTION REL.

TOP VIEW

FRONT VIEW

LEFT VIEW

REAR VIEW

TAKE-UP MODE FROM MIDDLE PLATTER

NOTES UNLESS OTHERWISE SPECIFIED

- PLACE DRAWING NO. IN **DRAFT** BOX
- DO NOT SCALE DRAW
- LOCKDOWN SCALES

NOTES: UNLESS OTHERWISE SPECIFIED

PLATE DRAWING NO. IN **DRAFT BOX**

LOCKDOWN SCALES

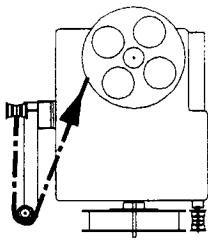
Sheet 5 or 7 of 1 Rev. 0 Drawing No. 202-0009-0 Date 04/26/98 Project P-100-181 Ver. 4 Drawing No. 202-0009-0

INSTRUCTIONS

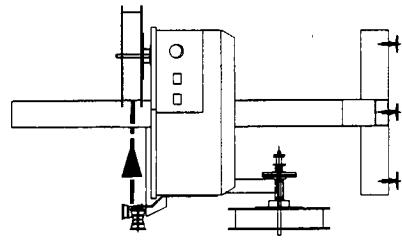
MAKE-UP TABLE

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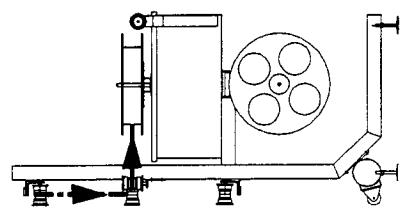
REVISIONS					
REV	DESCRIPTION	BY	APPR	DATE	
0	PRODUCTION REL.				



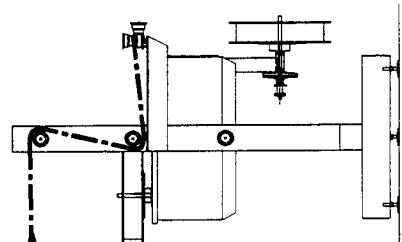
TOP VIEW



FRONT VIEW



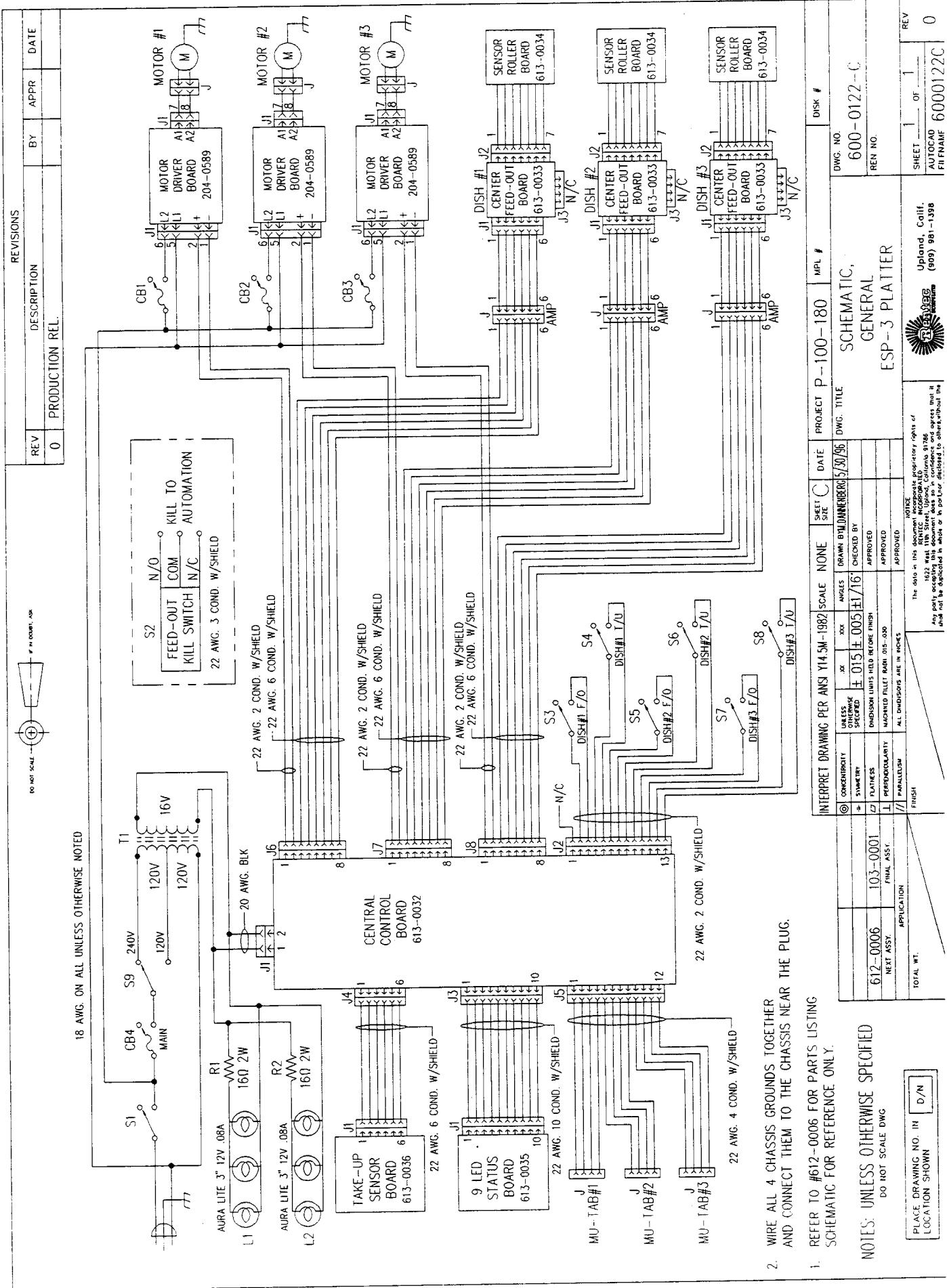
LEFT VIEW



REAR VIEW

TAKE-UP MODE FROM TOP PLATTER

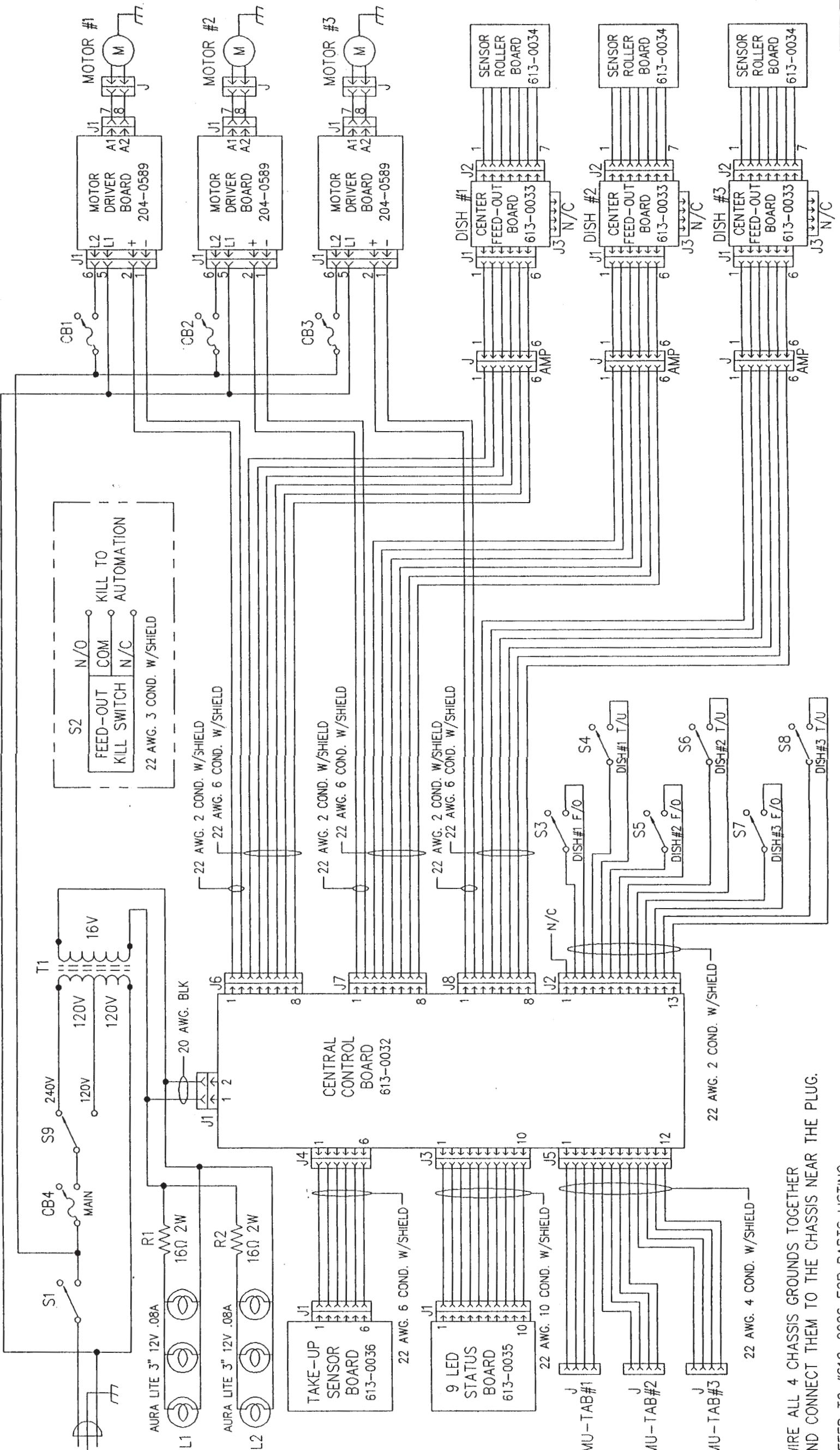
NOTES: UNLESS OTHERWISE SPECIFIED
DO NOT SCALE Dwg



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REVISIONS



INTERPRET DRAWING PER ANSI Y14.5M-1982		SCALE	NONE	SHEET C	DATE	PROJECT P-100-180	MPL #	DISK #
(◎) CONCENTRICITY		UNLESS OTHERWISE SPECIFIED	xx	ANGLES	DRAWN BY D.M.DANNER CO. 5/30/96	DWG. TITLE SCHEMATIC, GENERAL	DWG. NO. 600-0122-C	
+/- SYMMETRY		± .015	± .005	± 1/16"	CHECKED BY		REN NO.	
FLATNESS		DIMENSION UNITS IN INCHES BEFORE FINISH			APPROVED			
FINAL ASSY.		PERIODICITY			APPROVED			
APPLICATION		MACHINED FILLET RAD. 0.5-.030			APPROVED			
TOTAL WT.		PARALLELISM			ALL DIMENSIONS ARE IN INCHES			
PLACE DRAWING NO. IN D/N		FINISH						
LOCATION SHOWN								

1. REFER TO #612-0006 FOR PARTS LISTING
SCHEMATIC FOR REFERENCE ONLY.

NOTES: UNLESS OTHERWISE SPECIFIED
DO NOT SCALE DWG

PLACE DRAWING NO. IN D/N
LOCATION SHOWN

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CFS/RENTEC PRODUCT WARRANTY
One Year Limited Warranty

CFS/Rentec, Inc. warrants its products against defects in workmanship and materials under normal use for a period of one year from the date of purchase by the original purchaser. This warranty is superseded by manufacturer's warranties for parts manufactured elsewhere and used in CFS/Rentec, Inc.'s products. During the warranty period, any part that is determined by an authorized technician to be defective in material or workmanship and returned to the site of the manufacture (shipping costs prepaid) will be as the exclusive remedy, repaired or replaced at CFS/Rentec, Inc.'s option.

Responsibility for the conveyance of the product to the manufacturer is that of the purchaser. If the product is damaged in transit, the purchaser must file the claim with the carrier.

CFS/Rentec, Inc. will make a good faith effort for prompt repair, replacement or other adjustment with respect to any product that proves to be defective within the warranty period.

EXCLUSIONS

The warranty on products manufactured by CFS/Rentec, Inc. will not apply to defects resulting from:

- Improper or inadequate maintenance by the customer.
- Unauthorized modifications or misuse.
- Operation outside of the environmental specifications for the product.
- Improper site preparation and maintenance.
- Use of products from other manufacturers in conjunction with those purchased from CFS/Rentec, Inc.

The warranty period begins either on the date of customer purchase or, if the purchase price includes installation by an authorized technician on the date of installation.

Any liability for consequential and incidental damages is expressly disclaimed. CFS/Rentec, Inc.'s liability in all events is limited to, and shall not exceed the purchased price paid.

Many countries, states and localities have codes and/or regulations governing sales, construction, installation and/or use of products for certain purposes, which may vary from those in neighboring areas. While CFS/Rentec, Inc.'s attempts to ensure that its products comply with such codes, it cannot guarantee compliance and cannot be responsible for how the product is installed or used. Before purchase and/or use of a product, please review the product application, national, state and local codes/regulations and be sure that the product, installation and use will comply with them.

CFS/RENTEC, INC. FIELD SERVICE AGREEMENT

For all equipment manufactured by CFS/Rentec, Inc. requiring on-site servicing:

For on-site evaluation and/or repair by an authorized technician, a labor fee of \$375.00 per day applies. The customer is also responsible for all associated travel and living expenses. If a part or parts are deemed to be defective by the authorized technician and warranted under the standard one-year warranty, then conditions stated in that warranty apply. If, however, the parts are not warranted under the standard warranty the customer is responsible for the purchase of the parts from CFS/Rentec, Inc. as well as the conveyance of the parts to the site.