

# Film-Tech

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These manuals are designed to facilitate the exchange of information related to cinema projection and film handling, with no warranties nor obligations from the authors, for qualified field service engineers.

If you are not a qualified technician, please make no adjustments to anything you may read about in these Adobe manual downloads.

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35MM  
NEUTRONIC PLATTER  
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Oct. 27, 1988  
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## 1.0 SAFETY INSTRUCTIONS

### 1.1 Basics

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

- Read and understand all instructions before using the equipment.
- Do not operate the film transport system or Neutronic platter if unit has been damaged-until it has been examined by a qualified serviceman.
- Always disconnect or turn breaker or switch off before cleaning and servicing and when not in use.

To reduce the risk of shock or damage electronic controls, do not spill or place and liquids on the unit.

- Do not disassemble the unit, but have a qualified serviceman when service or repair work is required.

-A good earth ground is always necessary to prevent electric shock or electrical damage to the unit.

### 1.2 Fuse

When replacing the fuse of this transport system or Neutronic platter, use UL miniature fuse rated minimum 125 VAC with 3 amp current rating.

### 1.3 Line Voltage

This film transport system must be used with an ac voltage of 110 V to 120 V (220 V optional) and frequency of 50/60 HZ.

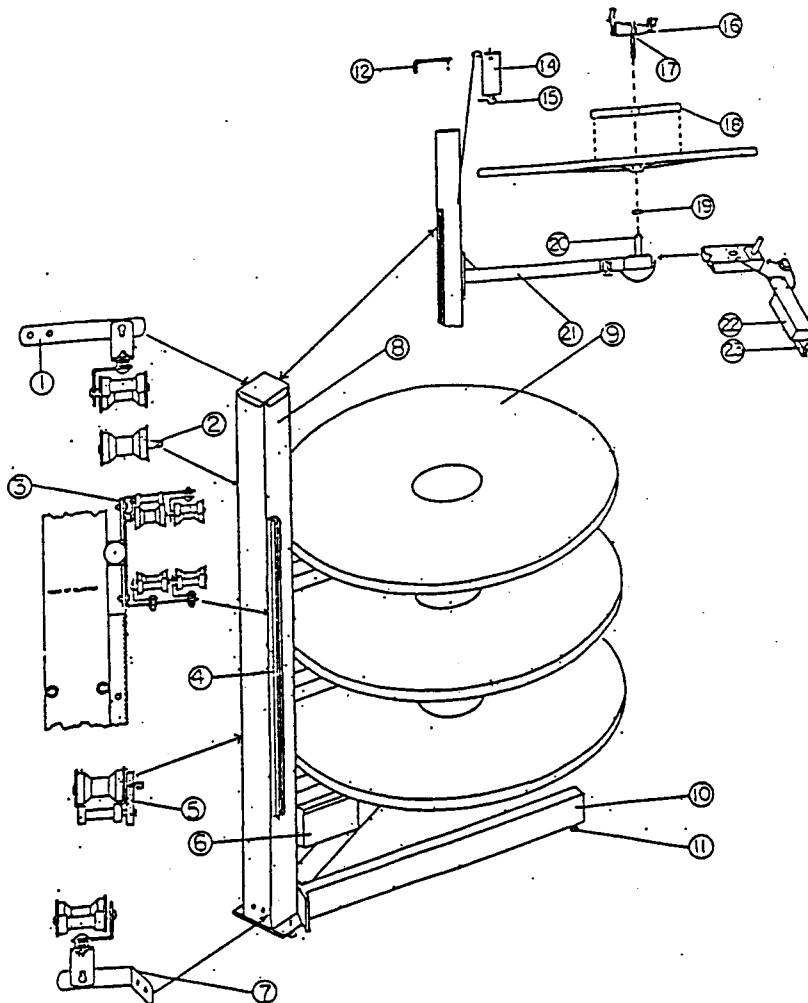
### 1.4 Precautions

In operating a film transport (Neutronic platter) system, it is important that certain good habits be developed which will insure proper operations at all times.

## 2.0 INTRODUCTION

Note: From here to the end of the manual, the film transport system will be referred as the "Neutronic Platter".

### 2.1 Description Diagram



## 2.0 INTRODUCTION (CONT.)

### 2.2 Terminology

Terms that will be used through-out this manual.

1. Platter Exit Roller Assembly:

Guides film roller from the turn around roller to the projector.

2. Payout Exit Roller Assembly:

Guides film from the payout head to turn around roller.

3. Take-up slider Assembly:

Guides film roller from the platter entry roller to the control arm and disc. Its indexed or positioned to any deck used for take-up.

4. Slider Bar Assembly:

Contains and glides the take-up slider to any deck used for take-up.

5. Turn Around Roller Assembly:

Guides film from the pay-out exit roller to the platter exit roller.

6. Main power Box Assembly:

Contains power fuse, power switch and transformer.

7. Platter Entry Roller Assembly:

Guides film from the projector to the slider bar assembly.

8. Mast:

A square post mounted vertically, which supports arms, legs, and motors.

9. Disc:

The disc is a 54" (44" optional) diameter aluminum. Its job is to hold film for winding and rewinding.

10. Legs:

Holds the mast vertically and supports weight. It includes adjustable feet.

## 2.0 INTRODUCTION (-CONT.)

## 11. Adjustable Feet:

They are located on the bottom of the mast and legs. They are used to level the platter.

## 12. Clevis Pin:

Holds the motor to the mast.

## 14. Motor:

Drives the disks to take-up or payout film. It contains springs to keep a constant tension against the disk and it can be controlled through the control box or make-up table.

## 15. Drive Puck:

A round piece of rubber molded to a hub which keeps direct contact on the disc.

## 16. Payout Head:

It controls payout by sensing the film angle of entry and guides it to the mast. Its angle of entry is directly proportional to the velocity of the motor.

## 17. Control Box Interface Cable:

Interfaces the control box to the platter via a 10-pin cinch male connector.

## 18. Take-up Ring:

Round adjustable ring mounted on a disc to be used for take-up. It maintains film centered on the disc.

## 19. Collar:

It's used as a spacer between the disk bearings and spindle.

## 20. Spindle:

Mounted vertically on the arm. Its main purpose is to hold the disc assembly and the payout head.

## 21. Arm:

Mounts horizontally into the mast. The primary function is to support the disc assembly.

## 22. Control Box:

It receives and sends information to the platter during a show. Consider it the brain of the Neutronic platter.

## 2.0 INTRODUCTION (CONT.)

**23. Take-up Arm:**

Senses the film take-up tension and controls the speed of the take-up platter.

Deck - A deck is defined as a complete disc assembly or film levels. For example, if the platter had three discs or three levels of film it would be called a 3-deck platter.

Pay-out - A function to feed film from the platter to the projector.

Take-up - A function to receive film from the projector to the platter.

Make-up table - A winding and rewinding system to load and unload reels of film to make-up a show.

Take-up speed - Velocity with which film is being transferred from the make-up table to the platter.

Brake switch - A switch on the make-up table to stop the platter drive motor or make-up table motor whenever splicing or unsplicing is necessary.

Film Guidance Hardware (FGH) - Roller assemblies to guide film long the walls from platter to projector.



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### 3.0 INSTALLATION

#### 3.1 Unpacking Instructions

The Neutronic Platter is shipped in three boxes.

**Box 1: (Accessory Box)**

3-Deck -- Measure L-26" x W-16" x H-15" and weighs 25 lbs. This box contains all the accessories, including pay-out heads, take-up rings, vacuum cups, control boxes, and manual.

**Box 2: (Mast)**

Measures L-73" x W-13" x H-38" and weighs approximately 200 lbs (260 lbs 5-deck). This box contains mast, motors, disc support arms and make-up table pole (only if make-up table ordered).

**Box 3: (Decks)**

Measures L-55" x W-56" x H-13" and weighs approximately 80 lbs. This box contains either 3 discs .

#### 3.2 Set Up

Open box 2 and remove the mast(8). Lay the mast horizontally with the main power box(6) facing upward and screw the adjustment feet into the bottom holes. Fasten the two legs(10) to the mast(8) with eight 5/16-18 X 3/4 button head screws and 5/16 star washers supplied. Leveling is not critical, but it should be leveled in an x-y axis for the purpose of a smoother action on the payout heads.

Remove all three motors(14) by unplugging them from the mast and removing the clevis pin(12) holding the motor hinge to the mast. Next, remove the control boxes(22) from box 1, and fasten them to each arm by four button head screws 1/4-20-3/4 and 1/4 star washers provided. Plug the male 10-cinch connectors on the control box(22) to the end of each arm and place the box cable into the clip on the side of the arm.

## 3.0 INSTALLATION (CONT.)

Open box 3, remove the film discs(9) and install the film discs over their respective spindles(20) located on the end of each support arm(21).

CAUTION: REMOVE TAPE OVER THE COLLAR(19) AND MAKE SURE A COLLAR(19) IS INSTALLED BEFORE PLACING THE DISCS.

Reinstall the three motors(14). Install the payout heads(17), take-up ring(18), platter exit roller(1), turn around rollers(5), platter entry roller(7), and take-up slider(3), which are all found in box 1. Make sure to follow diagrams.

## 4.0 OPERATIONS INSTRUCTIONS

### 4.1 Power-up

Keep power switch in the off position. Plug the unit into a standard 120 volt wall receptacle. Switch the power on. Film threading pilot lights will come on. Test each individual deck for payout and take-up by moving the payout head(16) film sensing arm "payout" and then move the take-up arm(23) on the control box(22), "take-up". Once this achieved, platter is ready to roll.

### 4.2 Platter/Projector Guidance Hardware

Install the FGH (film guidance hardware) on the projector and align to the platter. If the film is to be guided more than 8-10 feet, use of wall mount guidance rollers is suggested. See accessory sheet in the manual for more details.

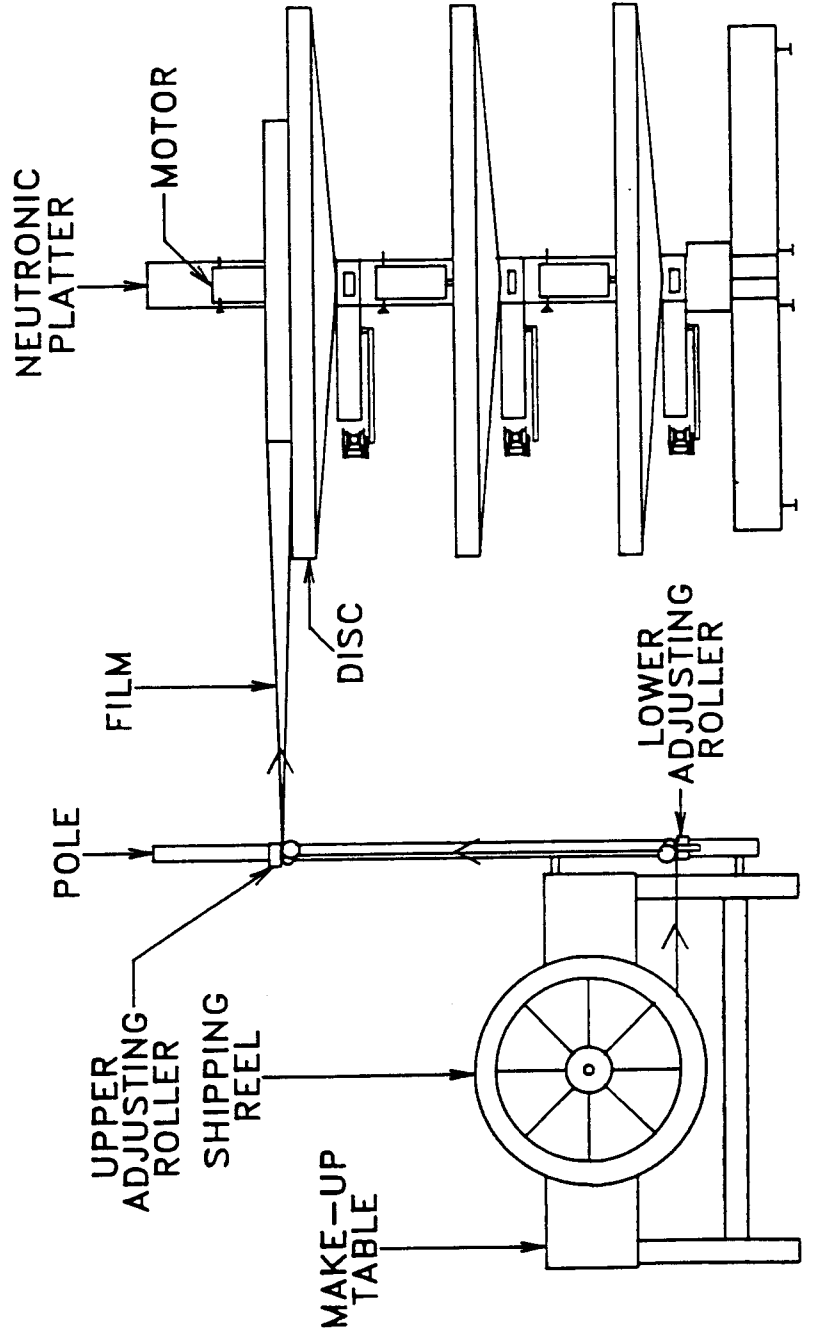
### 4.3 Make-up Show

Make-up the show using a reel no larger than 6000 ft. of film. We suggest the use of Xelar leader for the initial 50 ft. This will reduce film breaks associated with multiple starts. Throughout the film, yellow Neumade Products splicing tape should be used to differentiate between reels. Place the reel on the make-up table spindle. Set the make-up table switch in the make-up mode. Unplug the deck motor from the platter mast and plug into the make-up table cable. Place the take-up ring by fitting the two index pins into the appropriate holes on the disc, make sure the take-up ring is locked. Plug the make-up table into a standard 120 volt wall receptacle. Be sure the speed control is "off". Turn on the power, thread the film through the make-up table rollers and directly onto the platter (See Illust. 1). Remember, the discs turn counter-clockwise facing down. Very slowly, advance the speed control until the desired make-up speed is obtained. If you wish to stop during the make-up process, depress the brake switch. This will disconnect the platter drive motor and engage the brake in the make-up table. **CAUTION: DO NOT LET GO OF THE BRAKE SWITCH UNTIL SPEED CONTROL IS RESET TO MINIMUM.** Disengage the brake, slowly increase the speed control and continue to make-up the show. Repeat the make-up procedure for next reels used.

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# FILM THREADING ILLUSTRATION-1



## 4.0 OPERATIONS INSTALLATION (CONT.)

4.4 Running the show

Plug the deck motor into the mast. Place a payout head in the center of the platter containing the film. Remove the take-up ring by pulling the knob towards the center of disc (unlocks). Pull the ring upwards and simultaneously squeeze the ring to reduce the diameter. Place the take-up ring on the disc which will be used for take-up. Make sure the take-up ring is locked. Index the take-up slider to the appropriate take-up deck. Now, you are ready to thread the film.

## Film Threading:

Option A) Thread the film through the payout head (See Illust. 2) and through the transfer rollers (See Illust. 4), through the take-up slider (See Illust. 3), and onto the disc. To engage film in the take-up ring, fold the end of the film approx. 1/2 in., and guide it in the slit of the take-up ring. Rotate the disc by hand so that a minimum of one wrap of film is achieved on the take-up ring.

Next, take the film from the platter, exit roller(1), and pull it to the projector. Thread the projector. Go to the platter and rotate the take-up disc by hand until the tension from the projector to the platter will cause the control arm to activate into the take-up mode. The disc will rotate and stop at a set tension automatically. You are now ready to operate.

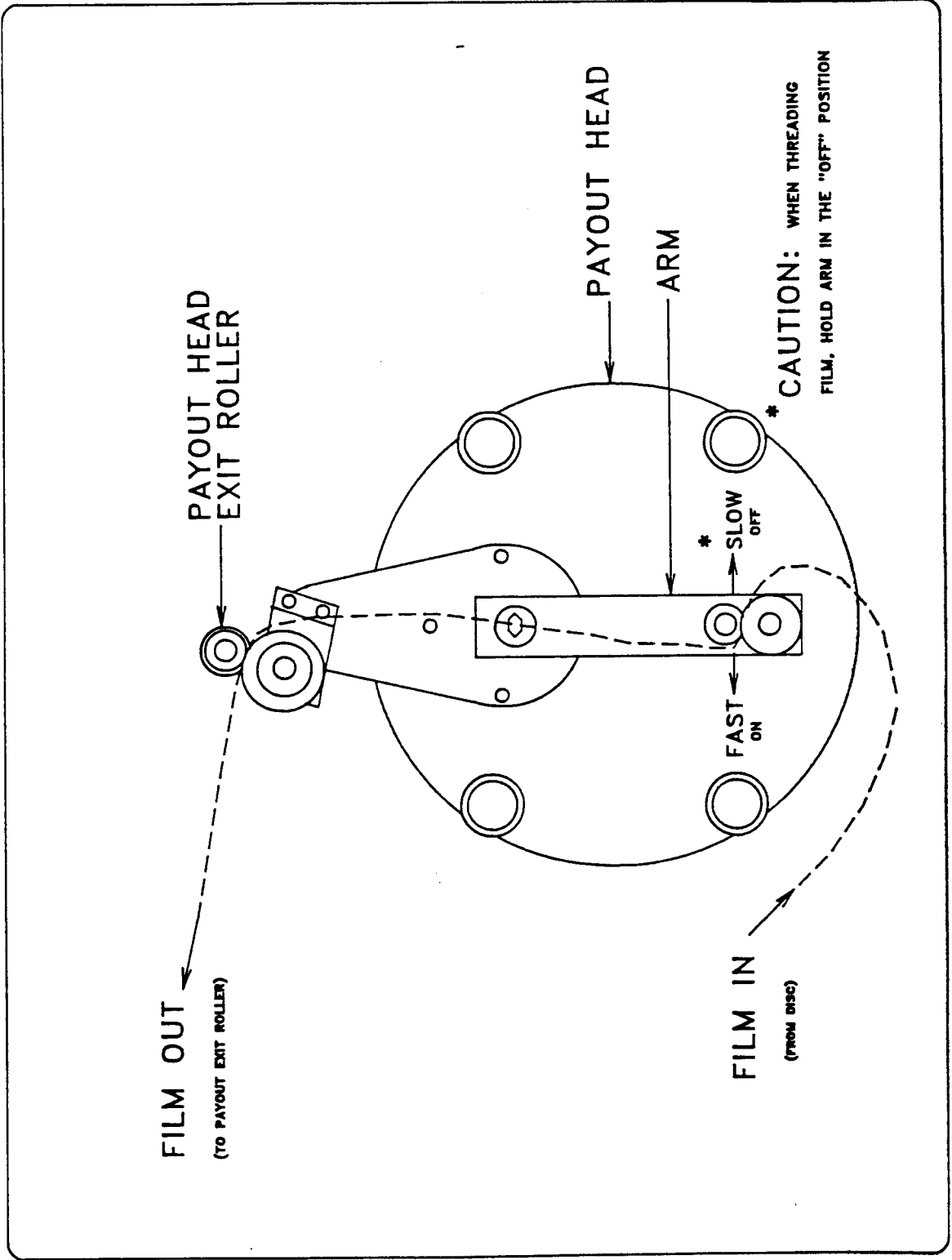
## Film Threading:

Option B) Thread the film through the pay-out (See Illust. 2) and through the transfer rollers (See Illust. 4) carrying the film to the projector. Make sure enough film is pulled to bring back through the platter. Thread through the projector and back to the platter transfer rollers, through the take-up slider (See Illust. 3) and onto the disk. To engage the film in the take-up ring, fold the end of the film approximately 1/2" and guide it in the slit of the take-up ring. Rotate the disc by hand so that a minimum of one wrap of film around the take-up ring is achieved. When rotating the disc, tension from projector to the platter will cause the control arm to activate into the take-up mode. Therefore, the disc will rotate and stop at a set tension automatically.

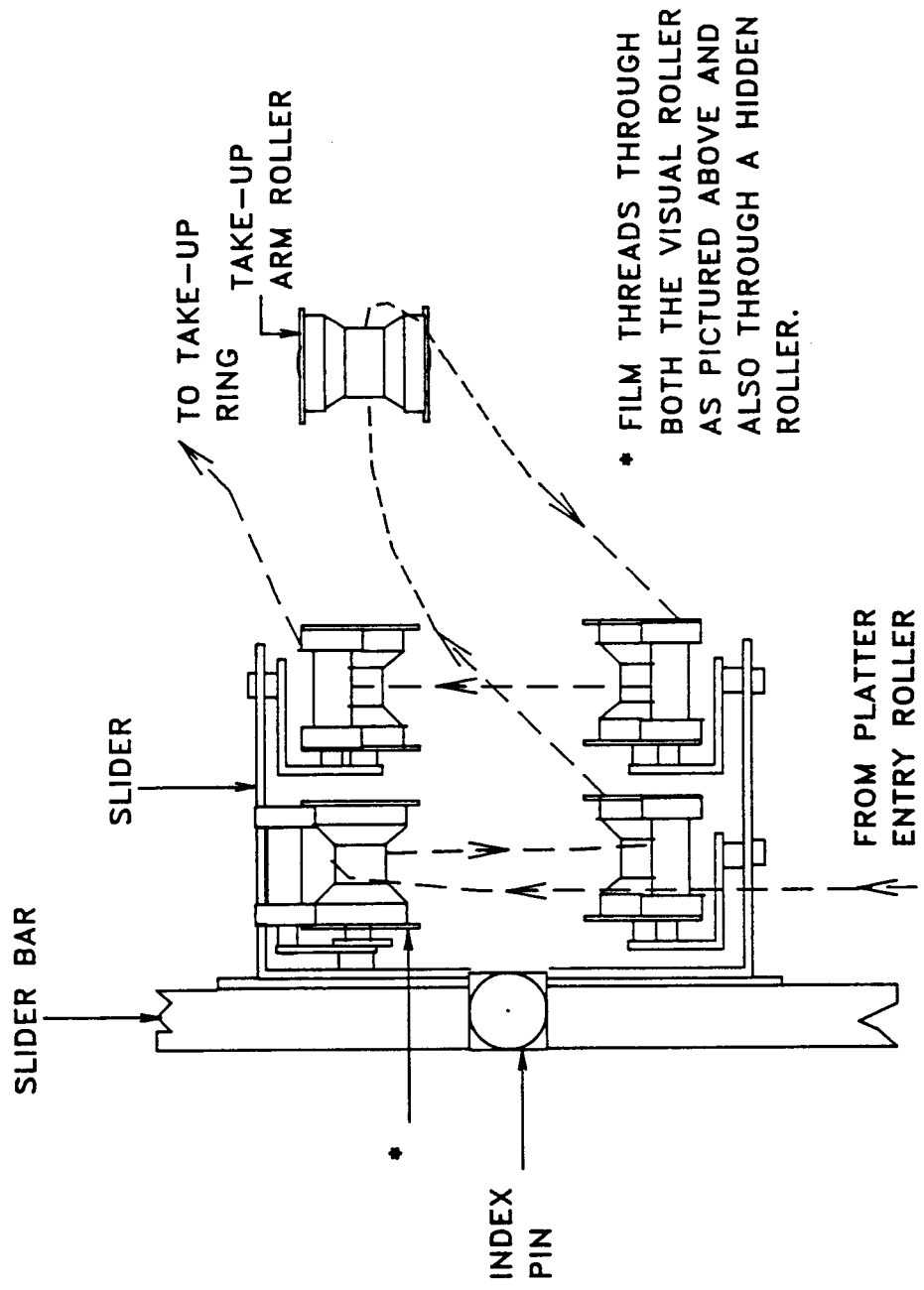
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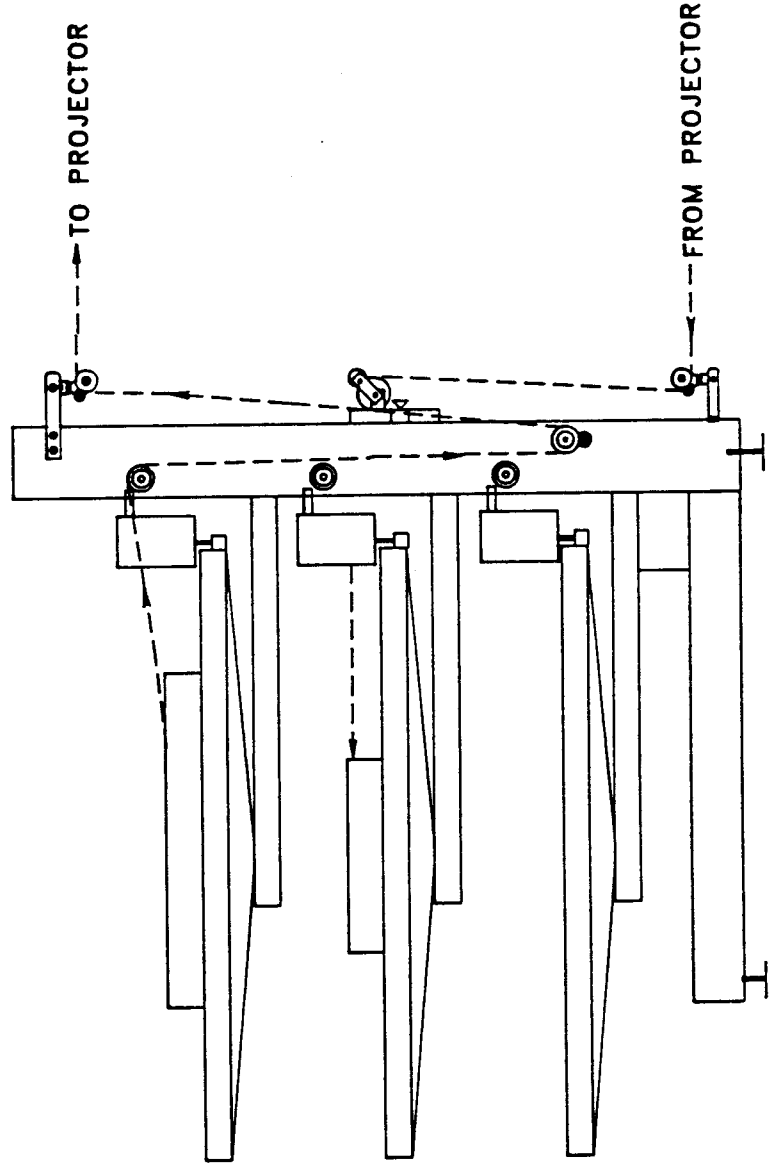
# FILM THREADING ILLUSTRATION-2



# FILM THREADING ILLUSTRATION - 3



35 mm NEUTRONIC PLATTER  
11/03/88  
FILM THREADING ILLUSTRATION-4





#### 4.0 OPERATIONS INSTALLATION (CONT.)

You are now ready to operate. The platter will now feed film to the projector demands and maintains a constant tension between the projector and the take-up platter (See Illust. 5). Each deck works independently of each other. Furthermore, you can payout from one platter and take-up on another.

Start the projector!

#### 4.6 Double Features

The Neutronic platter will handle film capacity up to 26,000 feet (4 hours and 48 minutes) on each deck. You can build up two features with trailers, etc. on one film deck. Then both features can either be taken up on one disk or two different disks.

#### 4.7 Take-down show

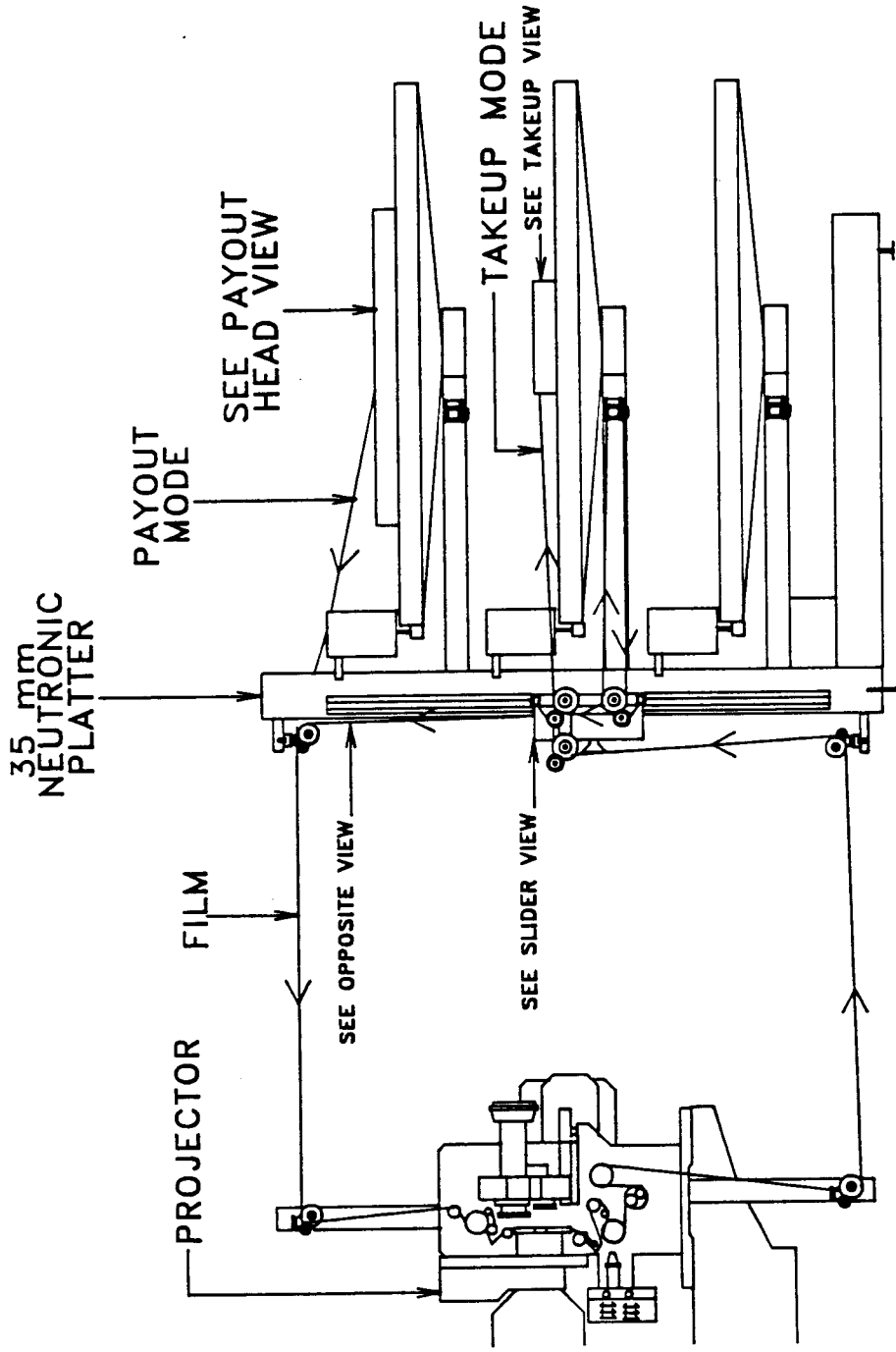
Align the make-up table roller to the platter you are taking the film from. Set the make-up table select switch in the take-down mode. Pull the motor latch back so that the motor puck has no direct contact with the disc. The disc will now free-wheel. Take the film from the outside of film roll and align the upper roller on the make-up table pole to the disk. Guide the film through the upper and lower rollers onto the exchange reel on the make-up table. Slowly advance to a desired speed, 50% is recommended. When you see the make-up splice is about to unwrap from the platter, turn the speed control down until exchange reel stops. Stop platter disc by hand when exchange reel stops.

You can now inch backward or forward to find your splice. Repeat the process until complete presentation is removed.

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# FILM THREADING ILLUSTRATION-5



## 5.0 MAINTENANCE

The Neutronic platter requires very little maintenance. The motors have sealed bearings and require no lubrication. Motor brushes should be inspected every three months and replaced as needed. Motor puck should be checked for wear and be replaced as needed.

The flanged film rollers each have two ball bearings and these bearings will require two or three drops of Xelube every three to six months. The take-up slider over a large amount of operations, may develop a little slop between the teflon glides. Should this occur this may be rectified by tightening the ESNA nuts slightly.

All rollers should be cleaned with Xekote liquid. The platter should be kept clean with soap and water.

DO NOT WAX THE DECKS.

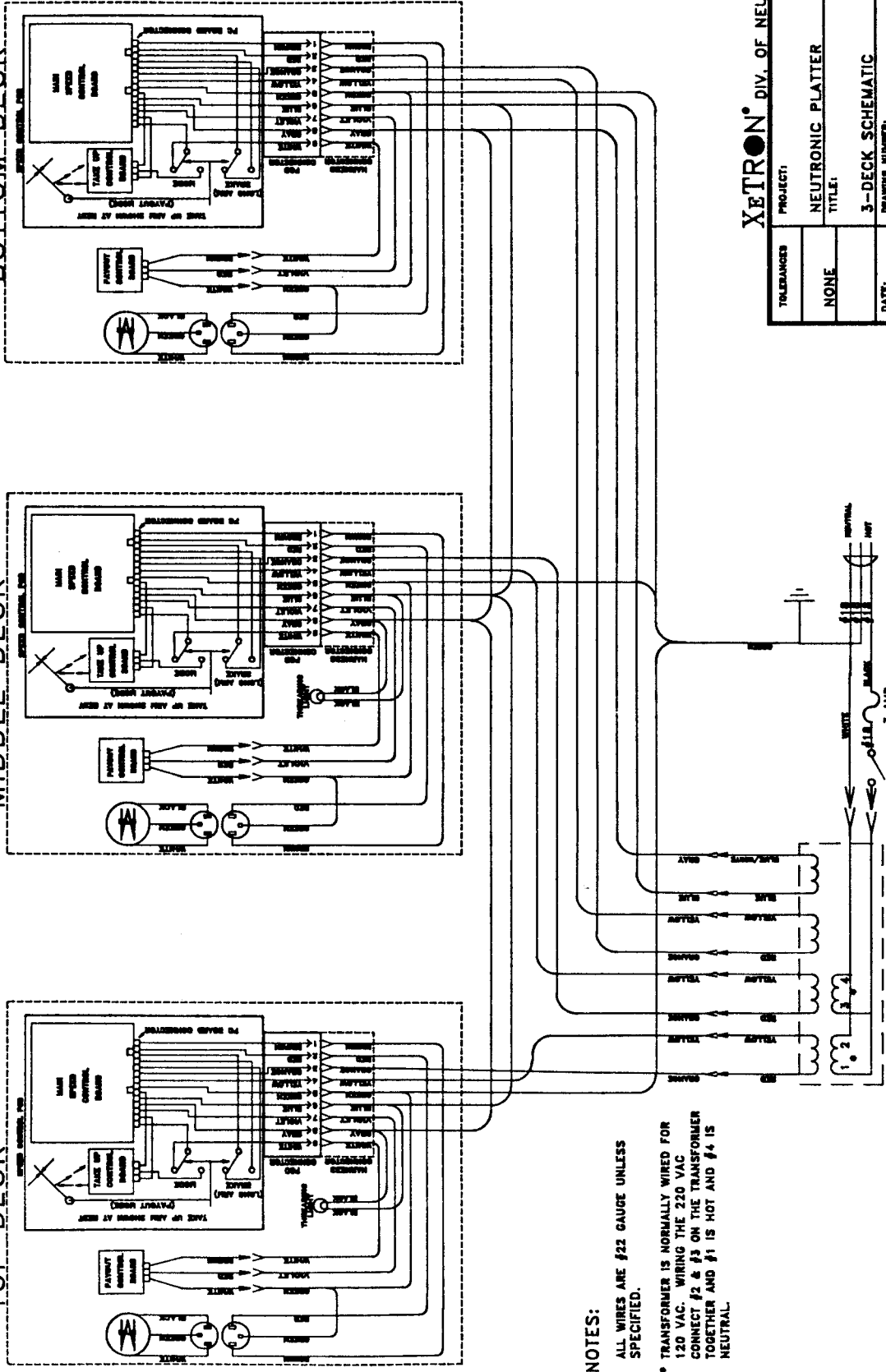
REVISIONS

REV. #	DESCRIPTION	DATE	APPROVED

TOP DECK

MIDDLE DECK

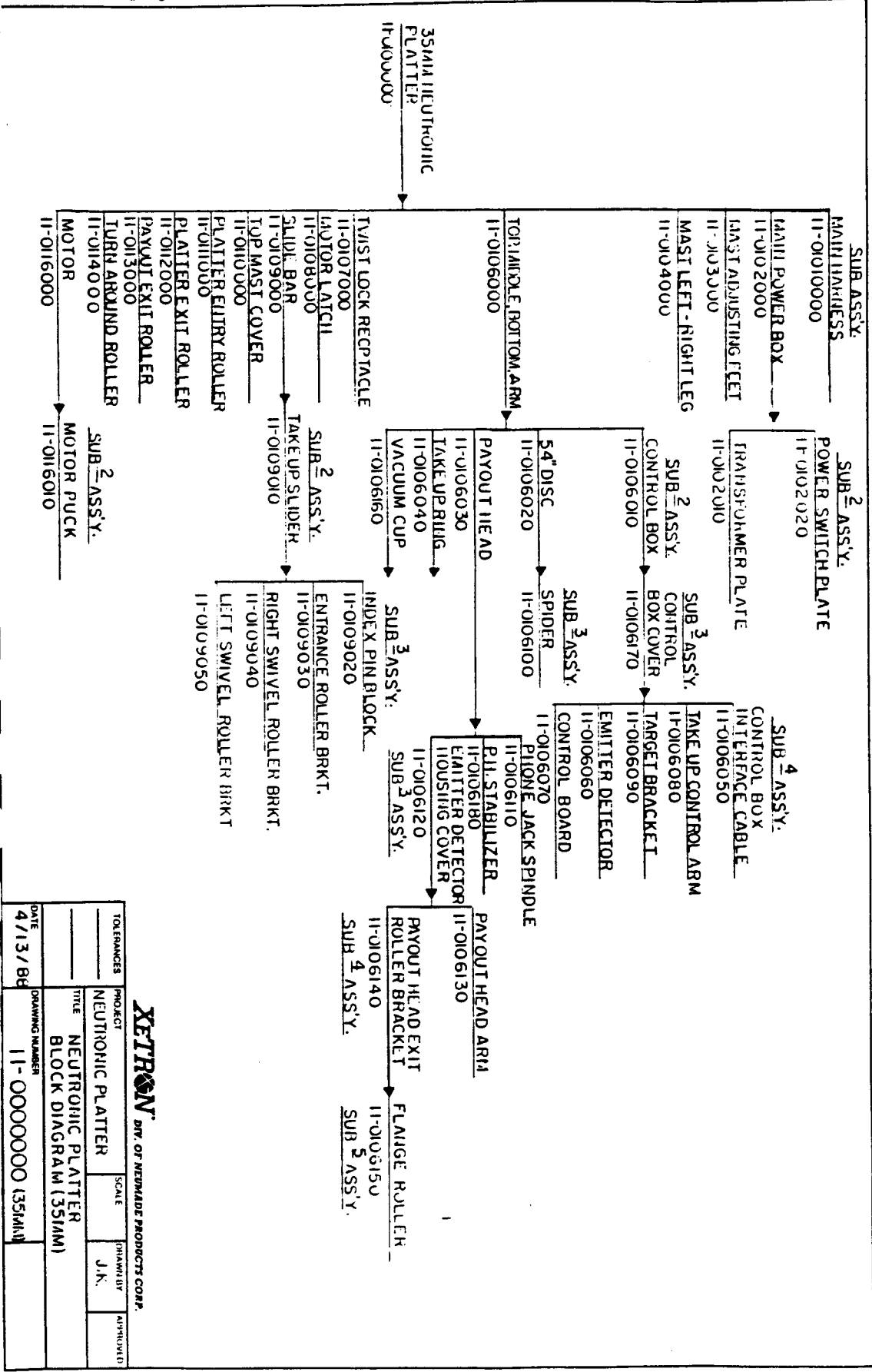
BOTTOM DECK



**NOTES:**  
 ALL WIRES ARE #22 GAUGE UNLESS SPECIFIED.  
 \* TRANSFORMER IS NORMALLY WIRED FOR 120 VAC. WIRING THE 220 VAC CONNECT #2 & #3 ON THE TRANSFORMER TOGETHER AND #1 IS HOT AND #4 IS NEUTRAL.

XETRON <sup>®</sup> DIV. OF NEUMAID PRODUCTS CORP.	
TOLERANCES	PROJECT
NONE	NEUTRONIC PLATTER
SCALE	TITLE:
NONE	3-DECK SCHEMATIC
DATE:	DRAWING NUMBER:
7-08-88	MODEL 11-01-1
MADE BY APPROVED	C. R. M. M.

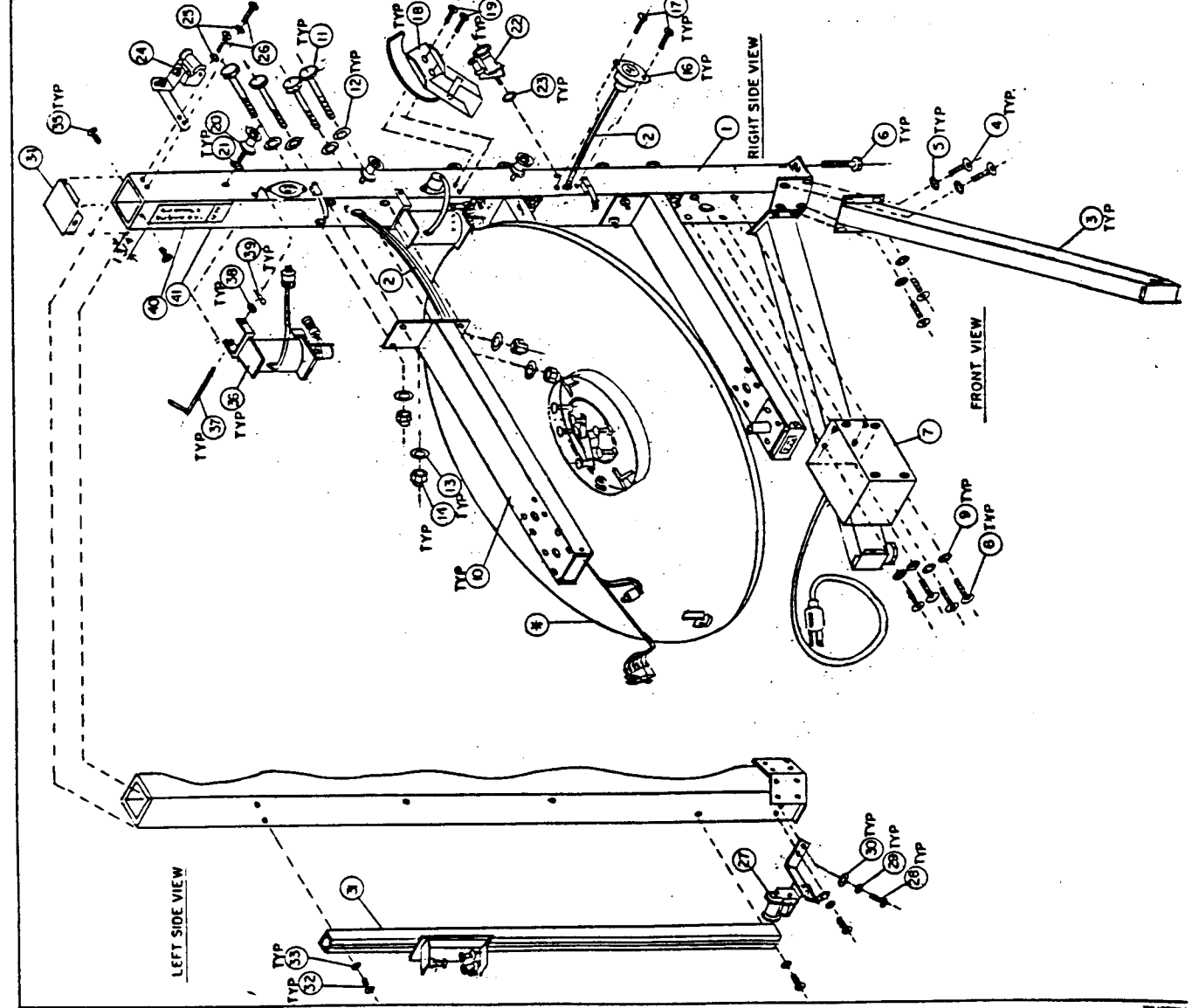
Top Sealed In. Center. Koolin. NJ 07127 U.S.A. Tel (201) 297-5300 Fax (201) 297-6888



TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER		J.K.	
DATE	TITLE	DRAWING NUMBER		
4/13/88	NEUTRONIC PLATTER BLOCK DIAGRAM (35MAM)	11-0000000 (35MAM)		

**XETRON** DIV. OF NEWMADE PRODUCTS CORP.

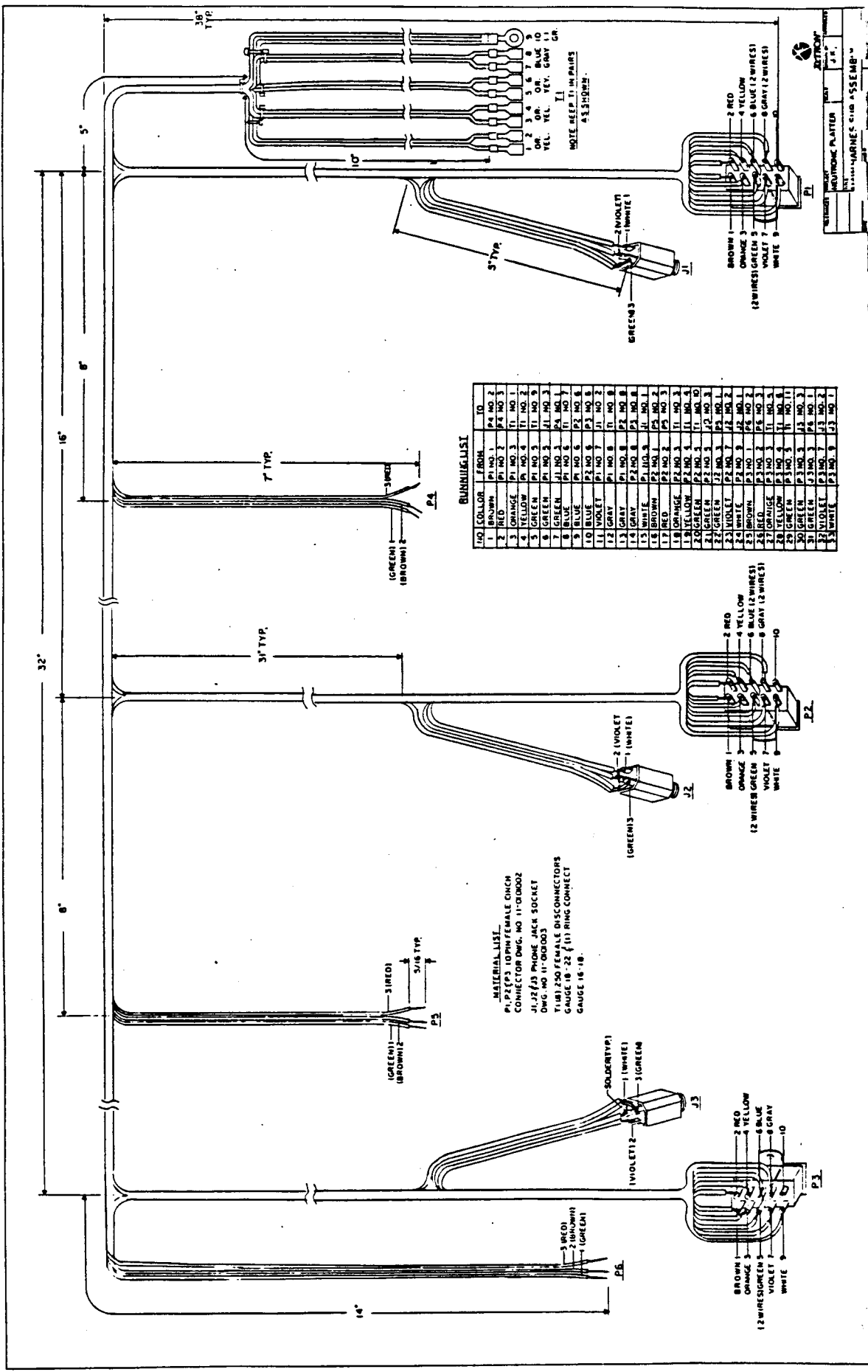
QUAN	DWG. NO.	ITEM	DESCRIPTION
1	11-010001	1	3 DECK MAST
1	11-010100	2	MAIN HARNES. SUB ASSEMBLY
2	11-010400	3	MAST LEG (LEFT AND RIGHT) SUB ASSY.
0	~	4	BUTTON HEAD SCREW 5/16-18 X 3/4 LG.
0	~	5	STAR WASHER 5/16 I.D.
2	11-010301	6	ADJUSTING FEET 1/2-16 X 3" LG.
1	11-010800	7	MAIN POWER BOX SUB ASSEMBLY
10	~	8	BUTTON HEAD SCREW 1/4-20 X 3/4 LG.
13	~	9	STAR WASHER 1/4 I.D.
3	11-010601	10	MAST ARM
12	~	11	HEX. HEAD BOLT 5/16-18 X 5" LG.
24	~	12	FLAT WASHER 5/16 I.D.
12	~	14	ESNA NUT 5/16-18
3	11-010600	15	ARM SUB' ASSY. SHOWN FOR REF. ONLY
3	11-010700	16	TWISTLOCK RECEPTACLE SUB ASSEMBLY
6	~	17	BUTTON HEAD SCREW 6-32 X 1/4 LG.
3	11-010801	18	MOTOR LATCH
0	~	19	BUTTON HEAD SCREW 8-32 X 1/4 LG.
3	11-013000	20	PAYOUT EXIT ROLLER SUB ASSEMBLY
4	11-014000	22	TURN AROUND ROLLER SUB-ASSEMBLY
1	11-011200	24	EXIT ROLLER SUB ASSEMBLY
1	11-011000	27	PLATTER ENTRY ROLLER SUB ASSEMBLY
3	~	30	FLAT WASHER 1/4 I.D.
1	11-009000	31	SLIDER BAR SUB ASSEMBLY
1	11-010100	34	MAST END COVER
3	11-016001	36	MOTOR SUB-ASSEMBLY
3	11-016006	37	CLIVAS PIN
3	11-016007	39	HITCH PIN
1	~	23	STAR WASHER 1/4 I.D.
1	11-010002	40	NEUTRONIC PLATTER NAMEPLATE
1	X.M-001	41	STANDARD U.L. NAMEPLATE



REVISIONS  
REV. A 4/5/88 ADDED ITEMS 40 & 41



REV. NO.	DATE	BY	CHK'D BY
1	4/5/88	J.K.	J.K.
PROJECT: NEUTRONIC PLATTER			
TITLE: 35 MM NEUTRONIC PLATTER (3 DECK)			
DRAWN BY: J.K.			
DATE: 3/26/88			
11-010000			



**BUNDLING LIST**

NO	COLOR	FROM	TO
1	BROWN	P1 NO. 1	P4 NO. 2
2	RED	P1 NO. 2	P4 NO. 3
3	ORANGE	P1 NO. 3	T1 NO. 1
4	YELLOW	P1 NO. 4	T1 NO. 2
5	GREEN	P1 NO. 5	T1 NO. 3
6	GREEN	P1 NO. 6	J1 NO. 3
7	GREEN	J1 NO. 3	PA NO. 1
8	BLUE	P1 NO. 7	P2 NO. 1
9	BLUE	P1 NO. 8	P2 NO. 2
10	WHITE	P1 NO. 9	J1 NO. 2
11	GRAY	P1 NO. 10	T1 NO. 8
12	GRAY	P1 NO. 11	P2 NO. 8
13	GRAY	P1 NO. 12	P2 NO. 8
14	GRAY	P1 NO. 13	J1 NO. 1
15	WHITE	P1 NO. 14	J1 NO. 1
16	BROWN	P2 NO. 1	P4 NO. 2
17	RED	P2 NO. 2	P4 NO. 3
18	ORANGE	P2 NO. 3	T1 NO. 1
19	YELLOW	P2 NO. 4	T1 NO. 2
20	GREEN	P2 NO. 5	T1 NO. 3
21	GREEN	P2 NO. 6	J1 NO. 3
22	GREEN	P2 NO. 7	PA NO. 1
23	VIOLET	P2 NO. 8	J2 NO. 1
24	WHITE	P2 NO. 9	J2 NO. 1
25	BROWN	P2 NO. 10	P6 NO. 2
26	ORANGE	P2 NO. 11	P6 NO. 3
27	RED	P2 NO. 12	T1 NO. 3
28	YELLOW	P2 NO. 13	T1 NO. 3
29	GREEN	P2 NO. 14	T1 NO. 3
30	GREEN	P2 NO. 15	T1 NO. 3
31	GREEN	P2 NO. 16	T1 NO. 3
32	VIOLET	P2 NO. 17	J3 NO. 2
33	WHITE	P2 NO. 18	J3 NO. 2

**MATERIAL LIST:**  
 P1, P2, P3, P4, P5 FEMALE DMSH CONNECTOR DWG. NO. 11-00002  
 J1, J2, J3 PHONE JACK SOCKET DWG. NO. 11-00003  
 T1, T2 FEMALE DISCONNECTORS GAUGE 18-22 (1) RING CONNECT GAUGE 16-18.

ATTENTION  
 MOUNTING PLATER  
 HARNESS CUB ASSEMBLY

SOLDER TYP.  
 1 VIOLET 12  
 1 WHITE 13  
 1 GREEN 14

BROWN 1  
 ORANGE 3  
 12 WIRES GREEN 5  
 VIOLET 7  
 WHITE 9  
 2 RED  
 4 YELLOW  
 6 BLUE  
 8 GRAY  
 10

BROWN 1  
 ORANGE 3  
 12 WIRES GREEN 5  
 VIOLET 7  
 WHITE 9  
 2 RED  
 4 YELLOW  
 6 BLUE (2 WIRES)  
 8 GRAY (2 WIRES)  
 10

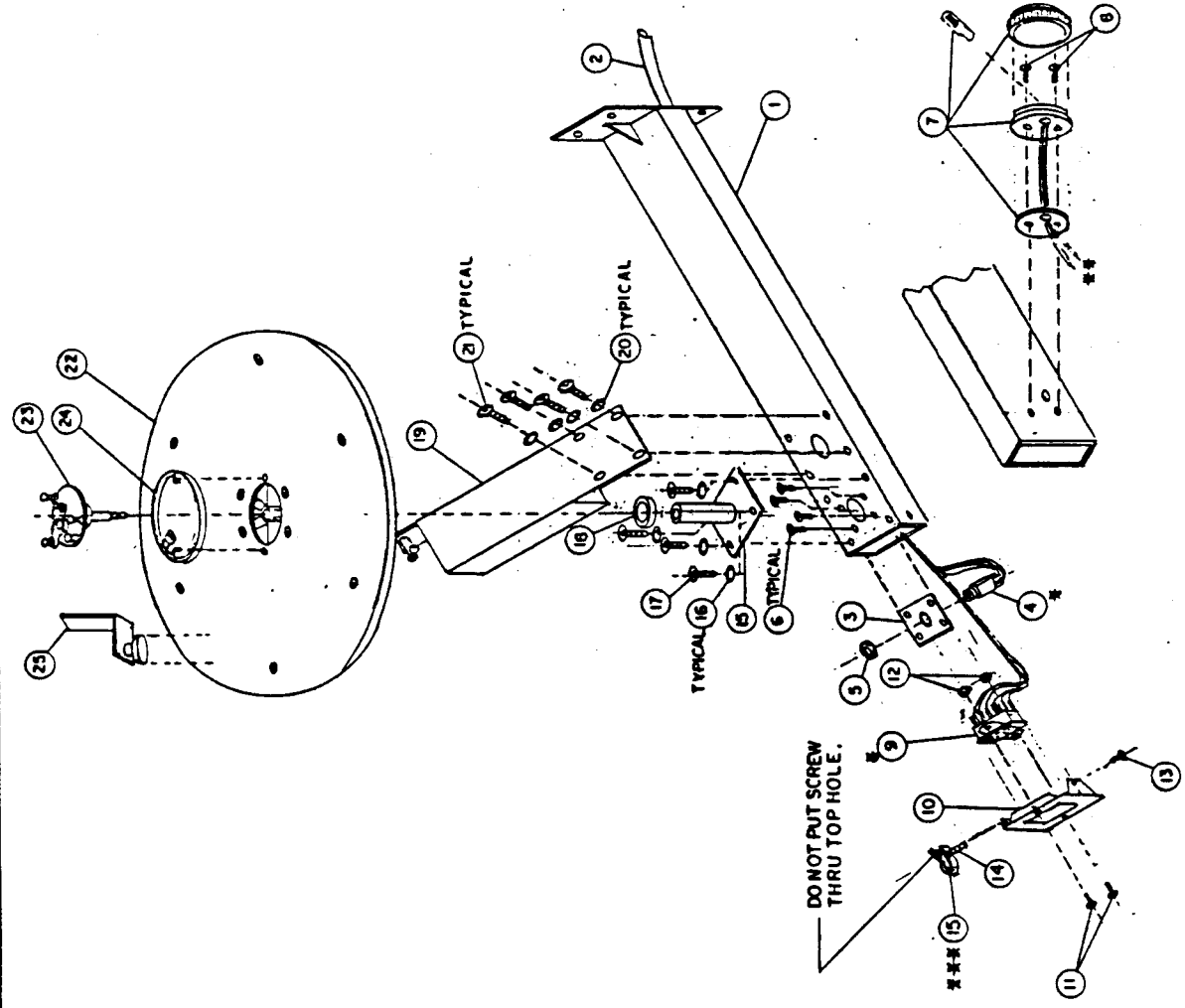
1 GREEN 1  
 1 BROWN 2  
 2 VIOLET 3  
 1 WHITE 4

GREEN 3  
 2 VIOLET 4  
 1 WHITE 5

BROWN 1  
 ORANGE 3  
 12 WIRES GREEN 5  
 VIOLET 7  
 WHITE 9  
 2 RED  
 4 YELLOW  
 6 BLUE (2 WIRES)  
 8 GRAY (2 WIRES)

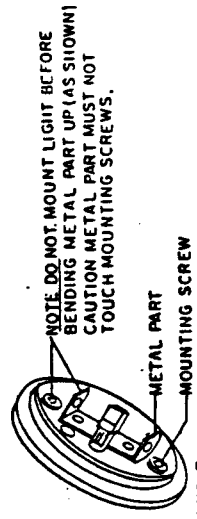
NOTE KEEP IN PAIRS AS SHOWN.

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106001	1	MAST ARM
1	11-0101000	2	MAIN WIRELESS SUB ASSEMBLY
1	11-0106002	3	PHONE JACK SOCKET PLATE
1	11-0101003	4	PHONE JACK SOCKET
1	11-0106003	5	HEX NUT SUPPLIED WITH ITEM NO. 4
4	11-0106003	6	ALLEN FLAT HEAD SCREW 6-32 X 3/8 LONG
1	11-0106003	7	THREADING LIGHT
4	11-0101002	8	10-PIN FEMALE CINCH CONNECTOR
1	11-0106006	9	ARM END CAP
2	11-0106004	10	KEP NUT 6-32
1	11-0106004	11	DISC SPINDLE
8	11-0106005	12	STAR WASHER 1/4 DIA.
8	11-0106005	13	BUTTON HEAD SCREW 1/4-20 X 3/4 LONG
1	11-0106010	14	SPINDLE COLLAR
1	11-0106020	15	CONTROL BOX SUB ASSEMBLY
1	11-0106030	16	34 DISC SUB ASSEMBLY
1	11-0106040	17	PAY OUT HEAD SUB ASSEMBLY
1	11-0106160	18	TAKE UP RING SUB ASSEMBLY
2	11-0106160	19	VACUUM CUP SUB ASSEMBLY
1	11-0106160	20	BUTTON HEAD SCREW 6-32 X 3/8 LONG
1	11-0106160	21	1/4" CABLE CLAMP



**NOTE:**

- \* ITEMS NO. 4 & 9 ARE PRE-WIRED TO ITEM NO. 2.
- \*\* SOLDER LEADS OF ITEM NO. 7 TO TERMINALS OF ITEM NO. 9.
- \*\*\* PUT ITEM NO. 14 INTO HOLE OF ITEM NO. 10 AND THRU HOLE OF ITEM NO. 10 (AS SHOWN).

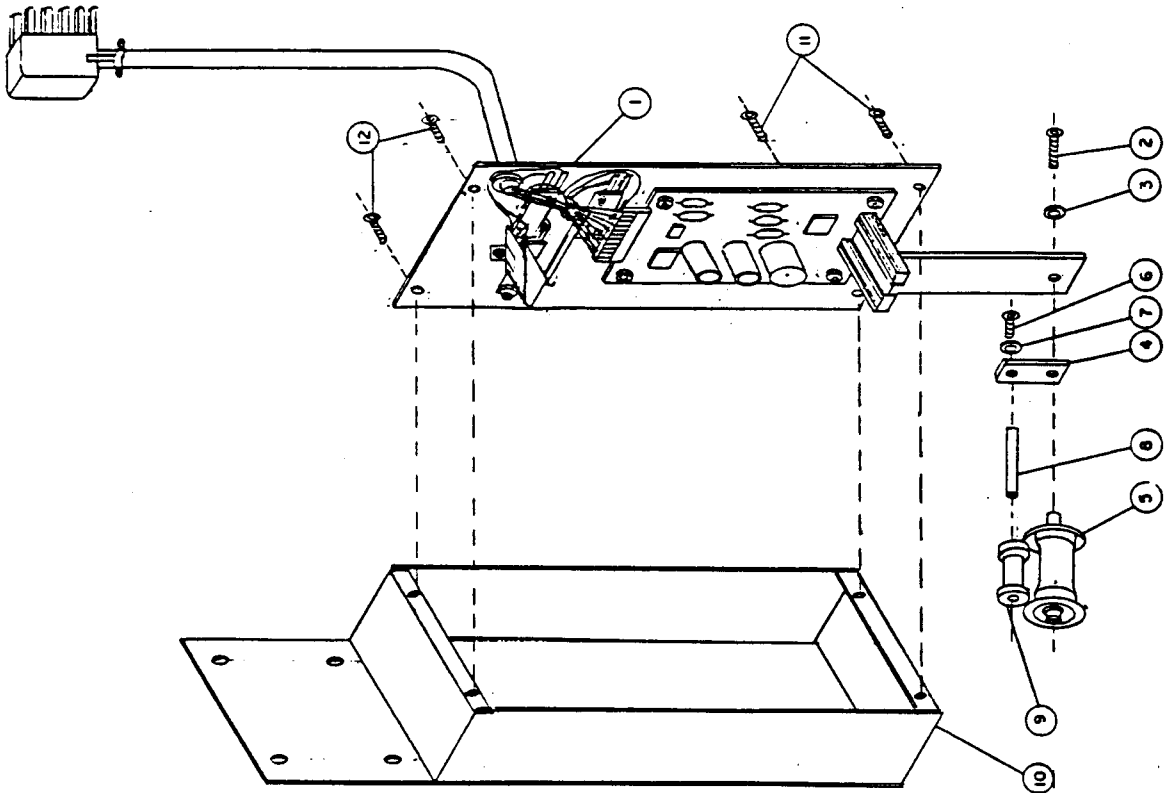


ITEM NO. 7

PROJECT	NEUTRONIC PLATTER
DATE	N.T.S.
DESIGNED BY	J.K.
ARM SUB-ASSEMBLY	
11-0106000	
DATE	2-16-66



QUAN.	DMG. NO.	ITEM	DESCRIPTION
1	11-0106170	1	CONTROL BOX COVER SUB-ASSEMBLY
1	---	2	BUTTON HEAD SCHLW 10-32 X 3/4 LONG
2	---	3 & 7	STAR WASHER NO 10
1	11-0106014	4	TRAP ROLLER BRACKET
1	11-0106150	5	FLANGE HOLLER SUB-ASSEMBLY
5	---	6, 11 & 12	BUTTON HEAD SCREW 10-32 X 3/8 LONG
1	11-0106013	8	TRAP ROLLER SHAFT
1	11-0106012	9	TRAP ROLLER
1	11-0106011	10	CONTROL BOX



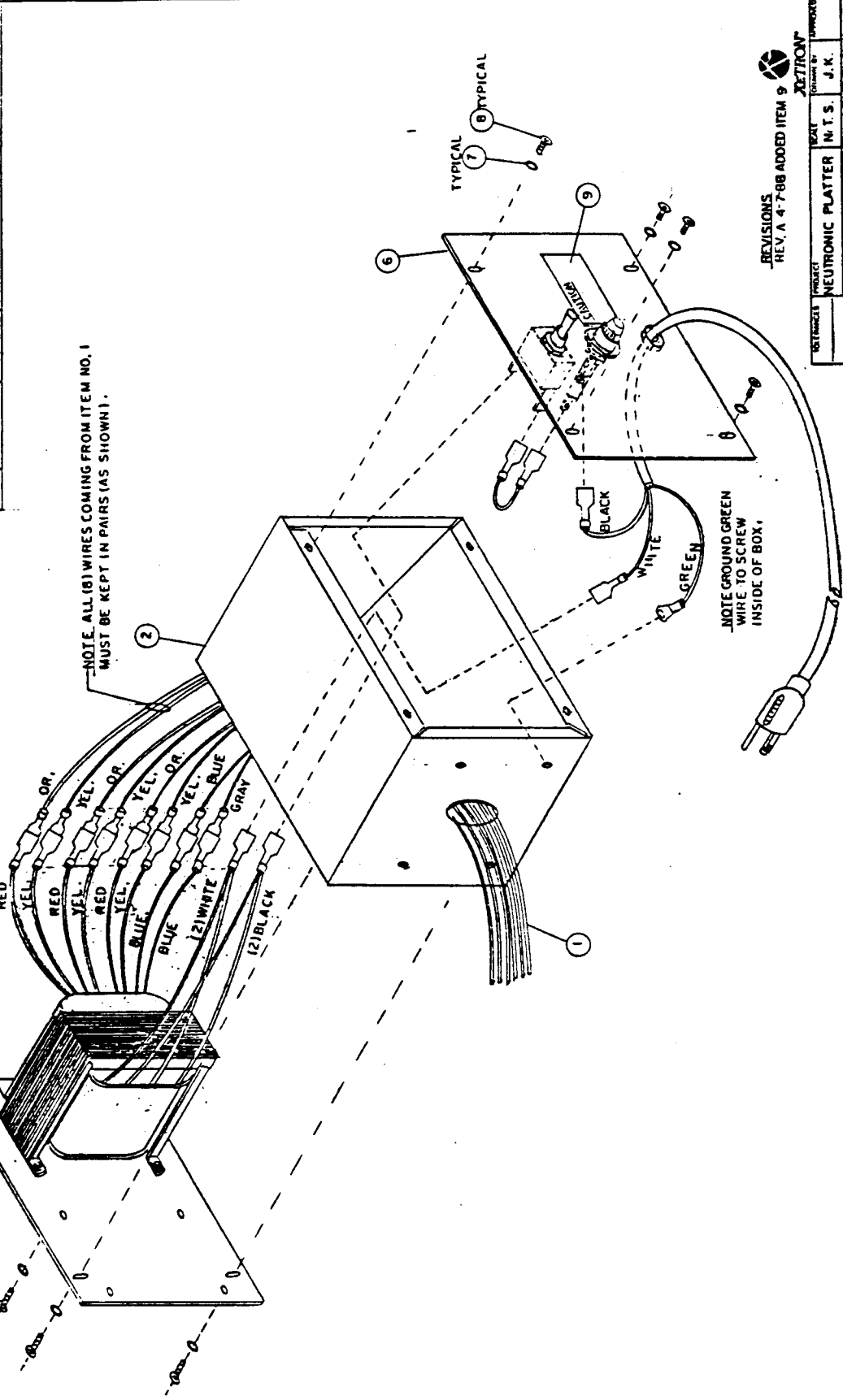
NOTE SET TRAP ROLLER AND TRAP ROLLER BRACKET ITEMS (4 AND 9) AT 45° (AS SHOWN).




REV. TRACKS	PRODUCT	SCALE	DESIGNED BY
	NEUTRONIC FLATTER	N.T.S.	J. K.
	TITLE		
	CONTROL BOX SUB-ASSEMBLY		
DATE			
27			

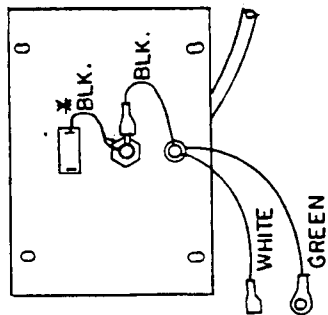
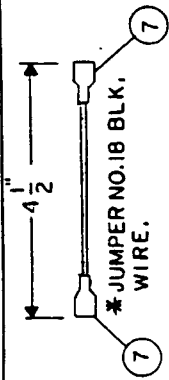
360

QUAN	DWG. NO.	ITEM	DESCRIPTION
1	11-001000	1	MAIN HARNESS
1	11-002001	2	MAIN POWER BOX
1	11-002010	3	TRANSFORMER PLATE SUB-ASSEMBLY
6	4&7	4&7	STAR WASHER NO. 10
6	5&6	5&6	BUTTON HEAD SCREW 10-32 X 3/8 LONG
1	11-002020	6	POWER SWITCH PLATE SUB-ASSEMBLY
1	X11-002	9	UL FUSE LABEL (CENTER ITEM 9 RIGHT SIDE OF FUSE)

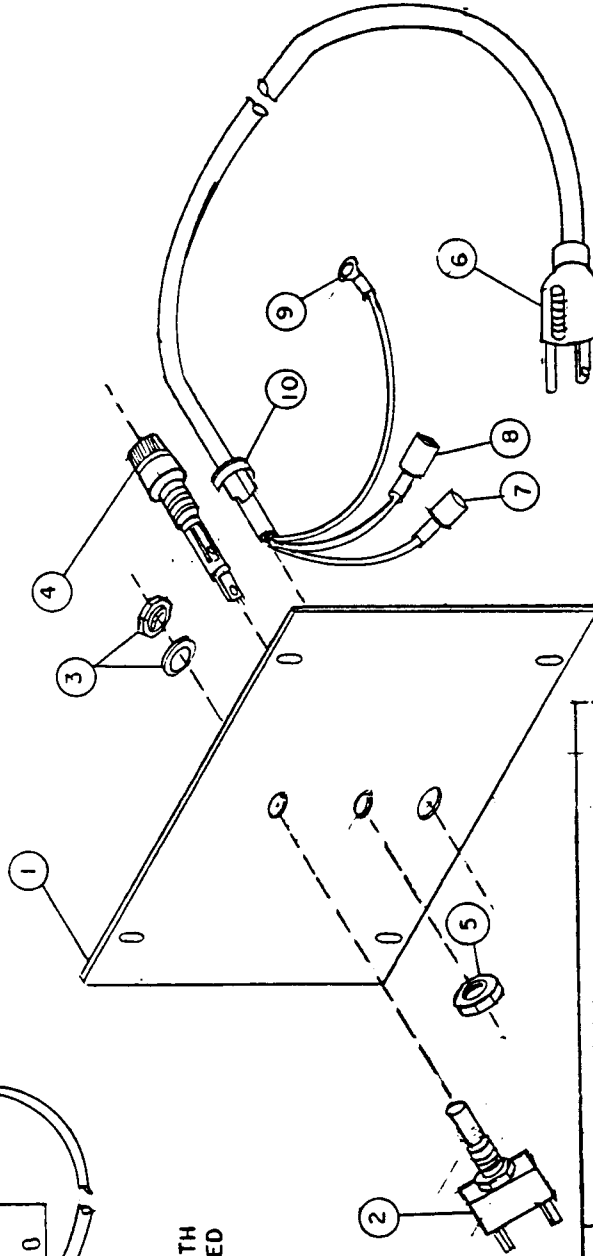


REVISIONS  
REV. A 4-7-68 ADDED ITEM 9


  
 PRODUCT: NEUTRONIC PLATTER M.T.S.  
 DESIGNED BY: J.K.  
 FILE: 2724766  
 MAIN POWER BOX ASSEMBLY  
 QUANTITY: 11-0102000



NOTE VIEW SHOWN WITH  
LINE CORD ASSEMBLED  
TO PLATE



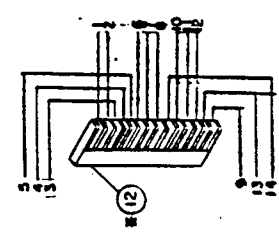
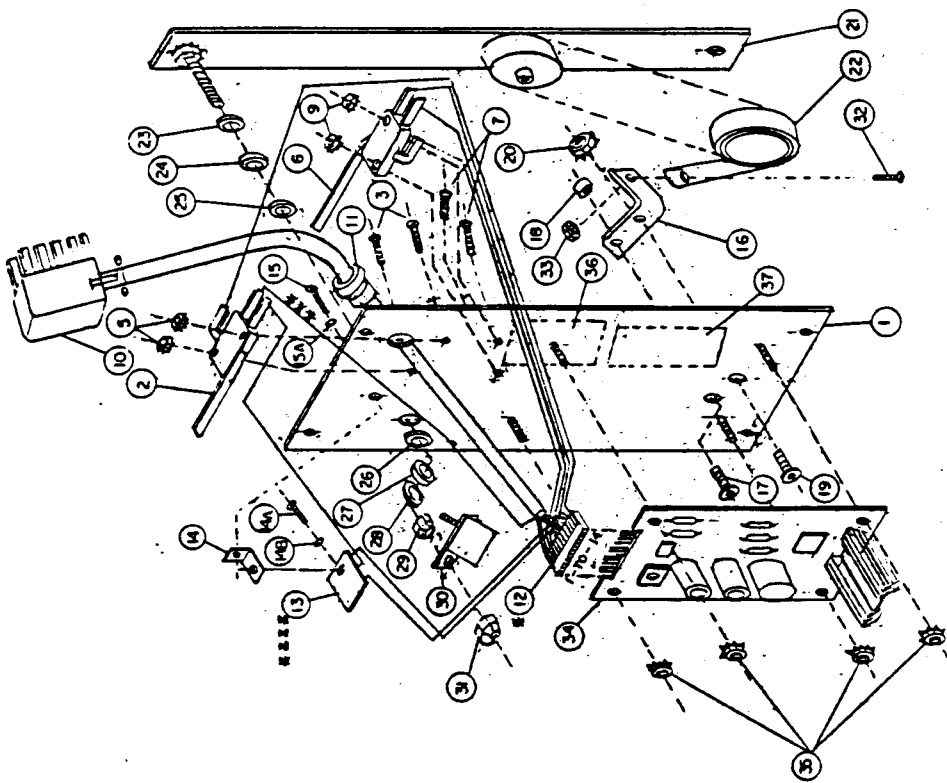
QTY	DWG. NO.	ITEM	DESCRIPTION
1	11-0102021	1	POWER SWITCH PLATE
1	11-0102023	2	POWER SWITCH
2	~	3	HEX NUT & WASHER SUPPLIED WITH ITEM NO. 2
1	11-0102024	4	FUSE HOLDER
1	~	5	HEX NUT SUPPLIED WITH ITEM NO. 4
1	11-0102025	6	POWER CORD 8 FEET LONG
3	~	7	FEMALE DISCONNECT (.250) USED ON BLK WIRE
1	~	8	MALE DISCONNECT (.250) USED ON WHITE WIRE
1	~	9	RING CONNECTOR 1/4-NQ16-14 GREEN WIRE
1	11-0102022	10	STRAIN RELIEF

**XETRON** DIV. OF METROLITE PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	N.T.S.	J. K.	
	TITLE			
	POWER SWITCH PLATE SUB-ASSEMBLY			
DATE	DRAWING NUMBER			
2/17/88	11-0102020			

Two Buckle Rd., Cedar Knolls, NJ 07817 U.S.A. Telephone (901) 367-4000

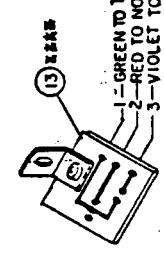
QTY	DWG. NO.	ITCM.	DESCRIPTION
1	11-000471	1	CONTROL BOX COVER
2	11-0106172	2 & 6	TAKE UP ARM SWITCH
4	~	3 & 7	SLOT HEAD SCREW 4-40 X 1/2 LG.
~	~	4 & 8	~
4	~	5 & 9	KEP NUT 4-40
1	11-006090	10	CONTROL BOX INTERFACE CABLE SUB-ASS'Y.
1	11-006171	11	STRAIN RELIEF 1/2
1	11-006173	12	1/4 PH FEMALE P.C. TERMINAL
1	11-006060	13	EMITTER DETECTOR SUB-ASS'Y.
1	11-0106064	14	E.D. BOARD BRACKET
4	~	35	KEP NUT 6-32
1	11-0106174	16	CORE SPRING BRACKET
2	~	17 & 19	BUTTON HEAD SCREW 10-32 X 3/8
1	11-006175	18	TAKE UP ARM BUMPER
1	~	20	KEP NUT 10-32
1	11-006080	21	TAKE UP CONTROL ARM SUB-ASS'Y.
1	11-006177	22	SPRING (FOR CORE)
4	~	23, 25, 26, 28	FLAT WASHER 1/4 I.D. SUPPLIED W/ ITEM 24(27)
2	11-0106176	24 & 27	THRUST BEARING
2	~	29 & 31	ESNA NUT 1/4-20
1	11-006090	30	TARGET BRACKET SUB-ASS'Y.
1	~	33	ESNA NUT 6-32
1	11-006070	34	CONTROL BOARD SUB-ASS'Y.
3	~	144, 15 & 32	BUTTON HEAD SCREW 6-32 X 3/8 LONG
2	~	148 & 154	STAR WASHER 6-32
1	XM-017	36	MODEL & SERIAL LABEL (AFFIX FROM BACK SIDE)
1	XM-018	37	INSPECTION LABEL (AFFIX FROM BACKSIDE 1)



\* NO. 22-10 CONNECTOR CABLE PINCH CONNECTION  
 1—BROWN    5—ORANGE    11—GRAY  
 2—RED     7—YELLOW    12—VIOLET  
 3—YELLOW   8—GREEN    13—\*\*  
 4—\*\*       9—\*\*       14—\*\*  
 5—BLUE    10—BLUE

\*\* NO. 22-10 SINGLE WIRES 5' LONG  
 3—ORANGE TO COMMON OF ITEM NO. 6  
 4—YELLOW TO NORMALLY OPEN OF ITEM NO. 6  
 5—BLUE TO NORMALLY CLOSED OF ITEM NO. 6  
 9—GREEN TO FIRST CONNECTION OF EMITTER DETECTOR  
 13—VIOLET TO 3RD CONNECTION OF EMITTER DETECTOR  
 14—GRAY TO COMMON OF ITEM NO. 2

\*\*\* WHITE WIRE FROM NO. 22-10 CONNECTOR CABLE TO ITEM NO. 2 NORMALLY CLOSED



1—GREEN TO TERMINAL 9 OF ITEM NO. 12  
 2—RED TO NORMALLY CLOSED OF ITEM NO. 2  
 3—VIOLET TO TERMINAL 13 OF ITEM NO. 12

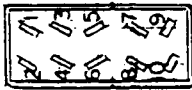
REVISIONS  
 REV. A 4/76/88 ADDED ITEMS 36 & 37

XETRON CORPORATION  
 11-0106170  
 CONTROL BOX COVER SUB-ASSEMBLY  
 DATE: 1/28/88  
 DRAWN BY: J.K.  
 CHECKED BY: J.K.  
 APPROVED BY: J.K.  
 PROJECT: ELECTRONIC PLATTER  
 PART: CONTROL BOX COVER SUB-ASSEMBLY

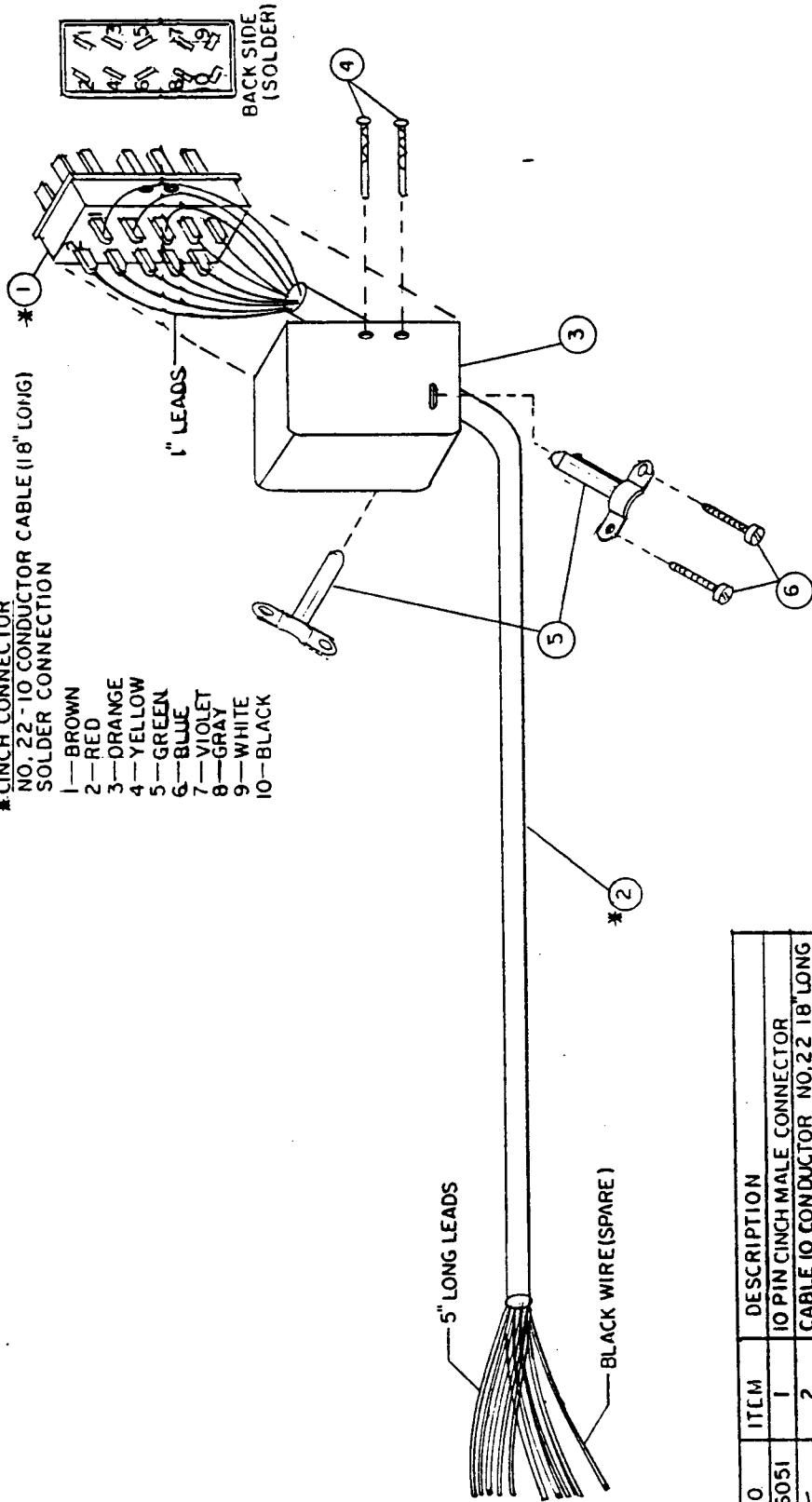
**\* CINCH CONNECTOR**

NO. 22-10 CONDUCTOR CABLE (18" LONG)  
 SOLDER CONNECTION

- 1—BROWN
- 2—RED
- 3—ORANGE
- 4—YELLOW
- 5—GREEN
- 6—BLUE
- 7—VIOLET
- 8—GRAY
- 9—WHITE
- 10—BLACK



BACK SIDE  
 (SOLDER)



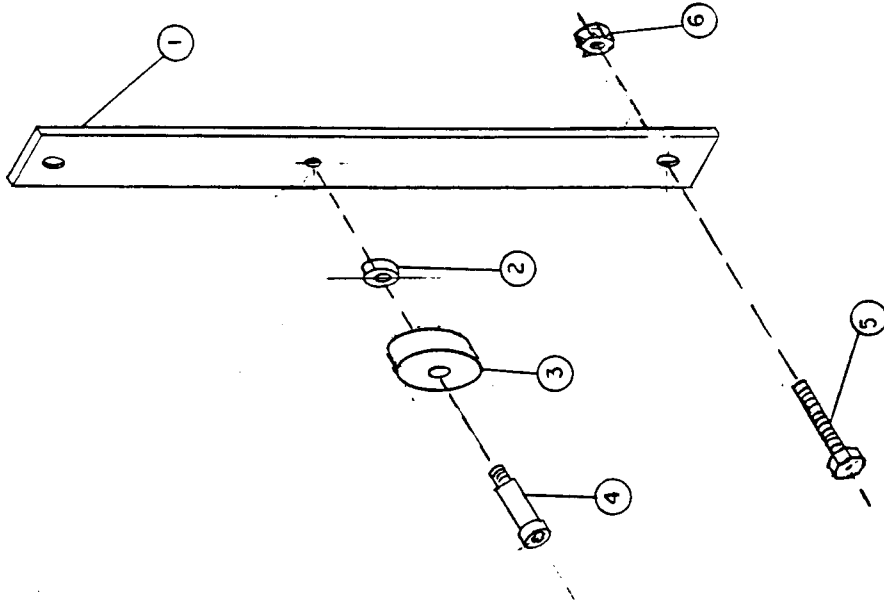
QUANTITY	DWG. NO.	ITEM	DESCRIPTION
1	11-0106051	1	10 PIN CINCH MALE CONNECTOR
1		2	CABLE 10 CONDUCTOR NO. 22 18" LONG
1		3, 4, 5, 6	SUPPLIED WITH ITEM NO. 1

**XETRON** DIV. OF NEWMARK PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	N.T.S.	J.K.	
	TITLE			
	CONTROL BOX INTERFACE SUB <sup>4</sup> ASS'Y.			
DATE	DRAWING NUMBER			
1/21/58	11-0106050			

Ten Saddle Rd., Cedar Knolls, NJ 07827 U.S.A. Telephone (201) 887-5100

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106081	1	TAKE UP CONTROL ARM
1	11-0106083	2	SPACER 3/8 O.D. 1/4 I.D. X 1/8 HIGH
1	11-0106082	3	SPRING CORE
1	~	4	SHOULDER CAP SCREW 250DMA.11/8LG.10-24
1	~	5	HEX HEAD BOLT 1/4-20 X 1 3/4 LONG
1	~	6	KEP NUT 1/4-20

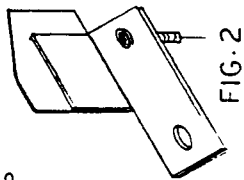
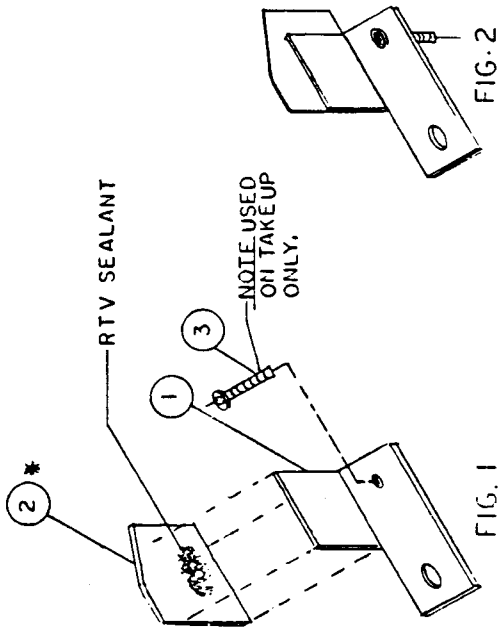


**XETRON** DIV. OF NEVMADE PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	N.T.S	J.K.	
	TITLE	4		
	TAKE UP CONTROL ARM SUB ASS'Y			
DATE	DRAWING NUMBER			
1/22/88	11-0106080			

Two Shields Rd., Cedar Knolls, IN 47017 U.S.A. Telephone (801) 867-8000

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106091	1	TARGET BRACKET
1	11-0106092	2	WHITE TARGET
1		3	BUTTON HEAD 6-32 X 1/2 LONG



\* NOTE: AS SHOWN IN FIG. 1, PUT A HEFTY DAB OF RTV SEALANT ON WHITE TARGET, THEN PRESS ON TO TARGET BRACKET AS SHOWN IN FIG. 2 (WIPE OFF ALL EXCESS RTV SEALANT).

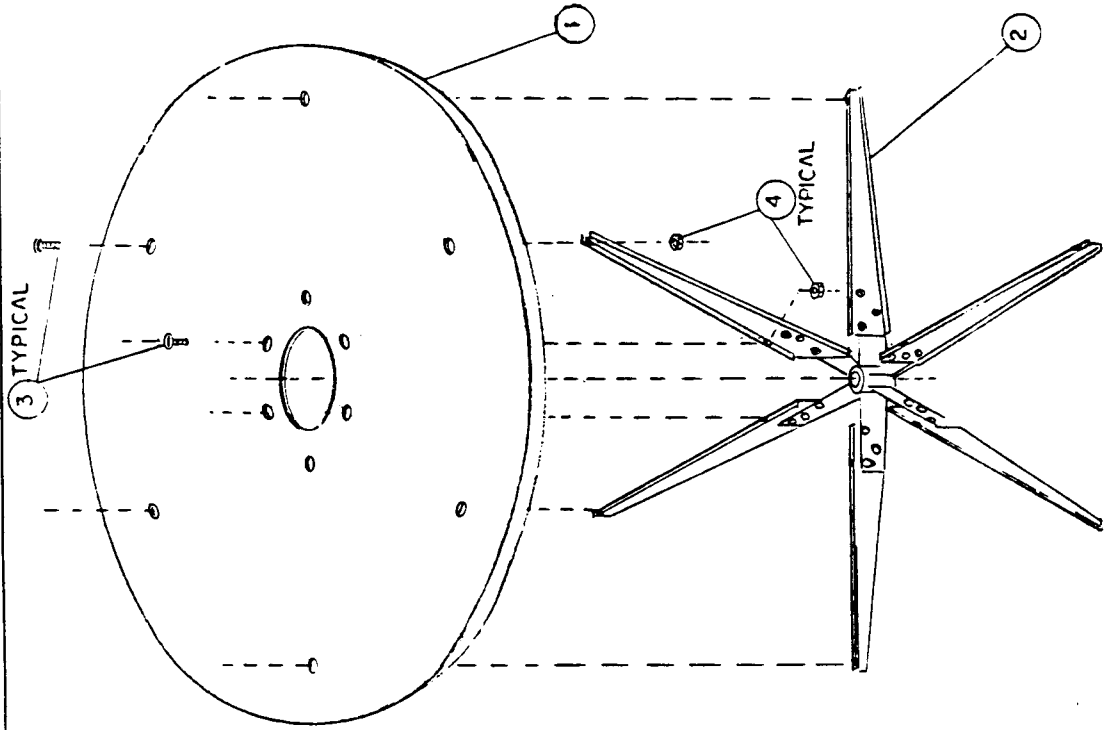
**XETRON** DIV. OF NEUMAIDE PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J.K.	
	TITLE	TARGET BRACKET SUB <sup>4</sup> ASSEMBLY		
DATE	DRAWING NUMBER			
12/29/87	11-0106090			

Ten Swistle Rd., Cedar Knolls, NY 07987 U.S.A. Telephone (907) 987-8800

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106021	1	54" DISC
2	11-0106100	2	SPIDER SUB <sup>2</sup> ASSEMBLY
* 12	~	3	FLAT HEAD SCREW 6-32 X 3/8
12	~	4	ESNA NUT 6-32

\* NOTE: USE STAINLESS STEEL NON-MAGNETIC SCREWS ONLY.

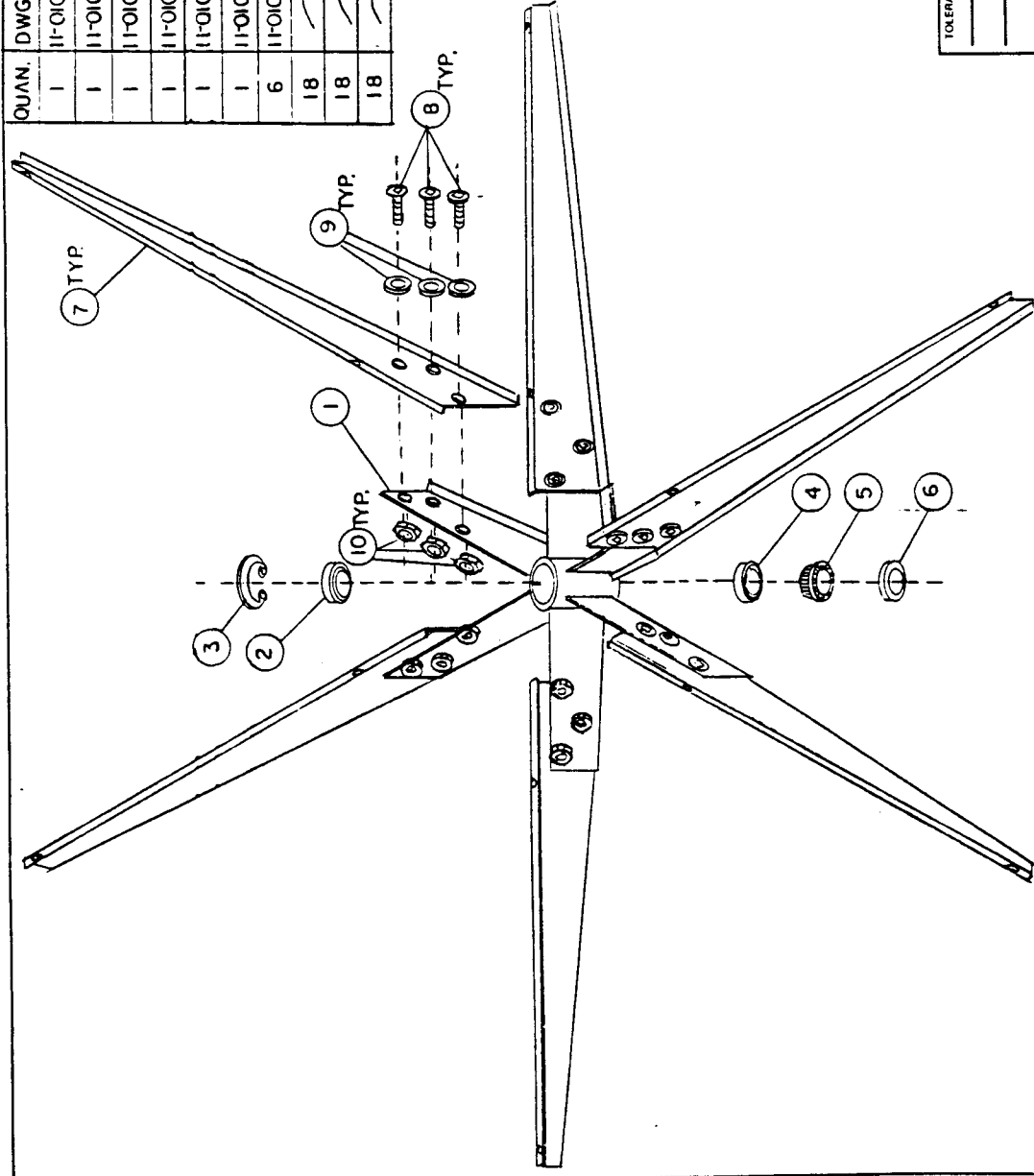


**XETRON** DIV. OF NEUMAIDE PRODUCTS CORP.

PROJECT	SCALE	DRAWN BY	APPROVED
NEUTRONIC PLATTER	N.T.S.	J.K.	
TITLE			
54" DISC SUB <sup>2</sup> ASSEMBLY			
DRAWING NUMBER			
11-0106020			
DATE			
2/4/88			



QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106101	1	SPIDER
1	11-0106103	2	TOP BEARING
1	11-0106104	3	RETAINING RING
1	11-0106105	4	LOWER BEARING CUP
1	11-0106106	5	LOWER CONE BEARING
1	11-0106107	6	OIL SEAL RING
6	11-0106102	7	SPIDER ARM
18	---	8	BUTTON HEAD SCREW 1/4-20X3/4LG.
18	---	9	FLAT WASHER 1/4 I.D.
18	---	10	KEP NUT 1/4-20

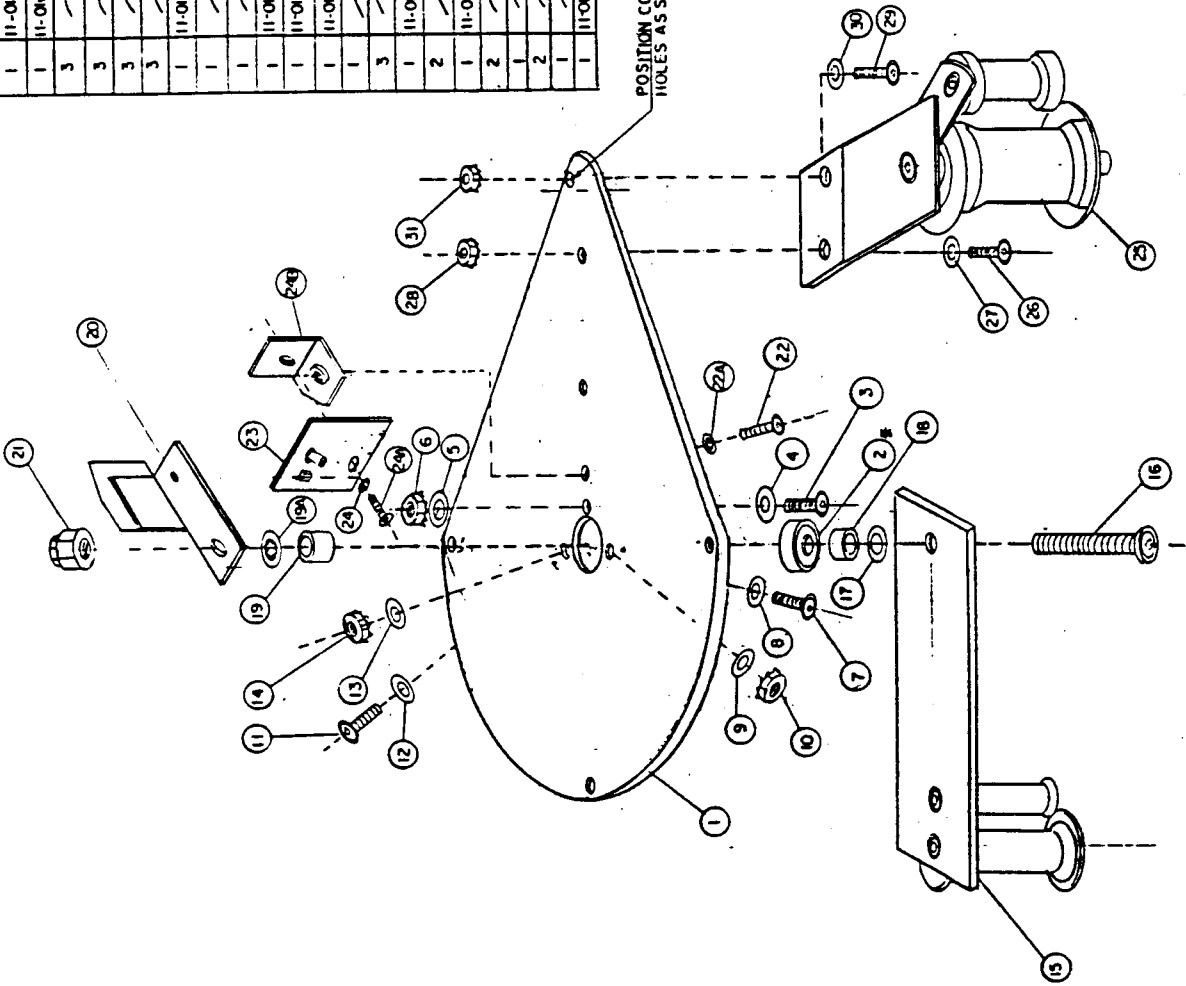


**XETRON** DIV. OF NEUMAR PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	N.T.S.	J. K.	
	TITLE	SPIDER SUB-ASSEMBLY		
DATE	DRAWING NUMBER			
2/4/68	11-0106100			

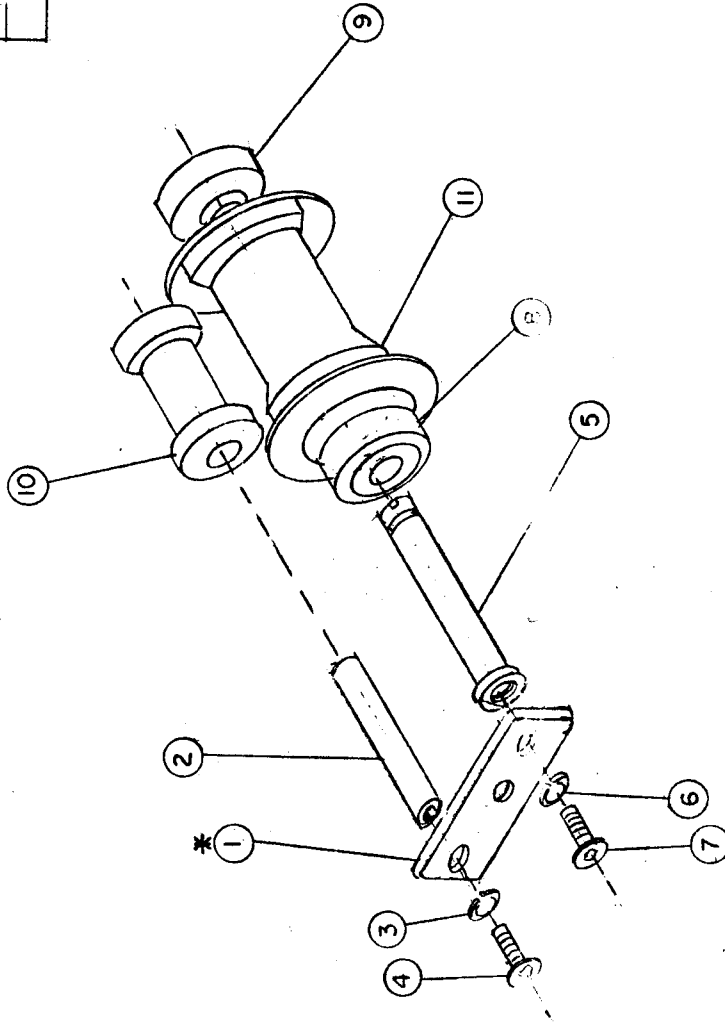
Two Seattle Rd., Cedar Knolls, NJ 07887 U.S.A. Telephone (901) 987-8900

QTY	DRG. NO.	ITEM	DESCRIPTION
1	11-006121	1	E.D. COVER PLATE
1	11-006122	2	ARM BEARING 1/4 I.D.
3		3, 7, 11	BUTTON HEAD SCREW 8-32 X 3/8 LG.
3		4, 8, 12	FLAT WASHER NO. 10
3		5, 9, 13	FLAT WASHER NO. 10
3		6, 10, 14	KEP NUT 8-32
1	11-006130	15	PAYOUT HEAD ARM SUB-ASSEMBLY
1		16	BUTTON HEAD SCREW 1/4-20 X 1 1/4 LG.
1		17	FLAT WASHER 1/4-20
1	11-006123	18	SPACER 1/4 I.D. X 5/16 LG.
1	11-006124	19	SPACER 1/4 I.D. X 1/8 LG.
1	11-006090	20	TARGET BRACKET SUB-ASSEMBLY
1		21	ESNA NUT 1/4-20
3		22, 26, 29	BUTTON HEAD SCREW 6-32 X 3/8 LG.
1	11-006060	23	EMITTER DETECTOR SUB-ASSEMBLY
2		28, 31	KEP NUT 6-32
1	11-006140	25	P.H. EXIT ROLLER BRACKET SUB-ASSEMBLY
2		27, 30	FLAT WASHER 6-32
1		19A	STAR WASHER 1/4 I.D.
2		22A, 24	STAR WASHER 6-32
1		24A	BUTTON HEAD SCREW 6-32 X 3/8 LONG
1	11-006064	24B	E.D. BOARD BRACKET



XETRON  
 PROJECT: ELECTRONIC PLATTER  
 DRAWN BY: M.T.S.  
 CHECKED BY: J.K.  
 DATE: 11-11-60  
 PART NUMBER: 11-006120

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106181	1	P. H. HEAD STABILIZER BRACKET
1	11-0106013	2	TRAP ROLLER SHAFT
2	~	3 & 6	SPLIT WASHER NO. 10
2	~	4 & 7	BUTTON HEAD SCREW 10-32 X 3/8
1	11-0106182	5	P.H. STABILIZER SHAFT
2	11-0106152	8 & 9	ROLLER BEARING
1	11-0106012	10	TRAP ROLLER
1	11-0106150	11	FLANGE ROLLER SUB <sup>3</sup> ASSEMBLY



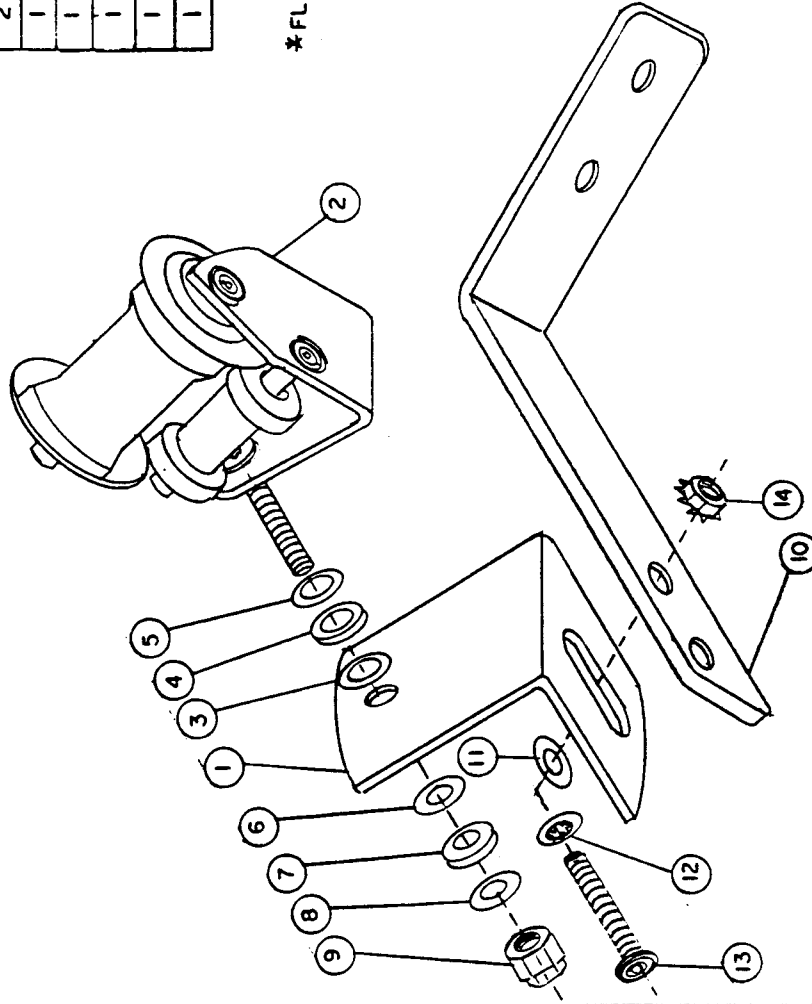
\* ASSEMBLE ITEMS 2 THRU 7 TO ITEM 1  
 THEN ASSEMBLE ITEM 1 TO PAYOUT  
 HEAD SUB ASSEMBLY DWG. NO. 11-0106030  
 ASSEMBLE ITEMS 8 THRU 11 LAST.

**XETRON** DIV. OF NEWMARK PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J. K.	
	TITLE			
	P. H. STABILIZER SUB <sup>3</sup> ASSEMBLY			
DATE	DRAWING NUMBER			
10/15/54	11-0106180			

QJAN.	DWG. NO.	ITEM	DISCRIPTION
1	11-0112.002	1	ADJUSTING SWIVEL BRACKET
1	11-0109050	2	LEFT SWIVEL ROLLER BRKT, SUB ASSEMBLY
*4	~	5568, 10	FLAT WASHER 1/4-20
2	11-0106176	4 1/2	TRUST BEARING
1	~	9	ESNA NUT 1/4-20
1	11-0111001	10	PLATTER ENTRY ROLLER BRACKET
1	~	12	STAR WASHER 1/4, I.D.
1	~	13	BUTTON HEAD SCREW 1/4-20 X 1" LONG
1	~	14	KEP NUT 1/4-20

\* FLAT WASHERS SUPPLIED WITH THRUST BEARINGS.

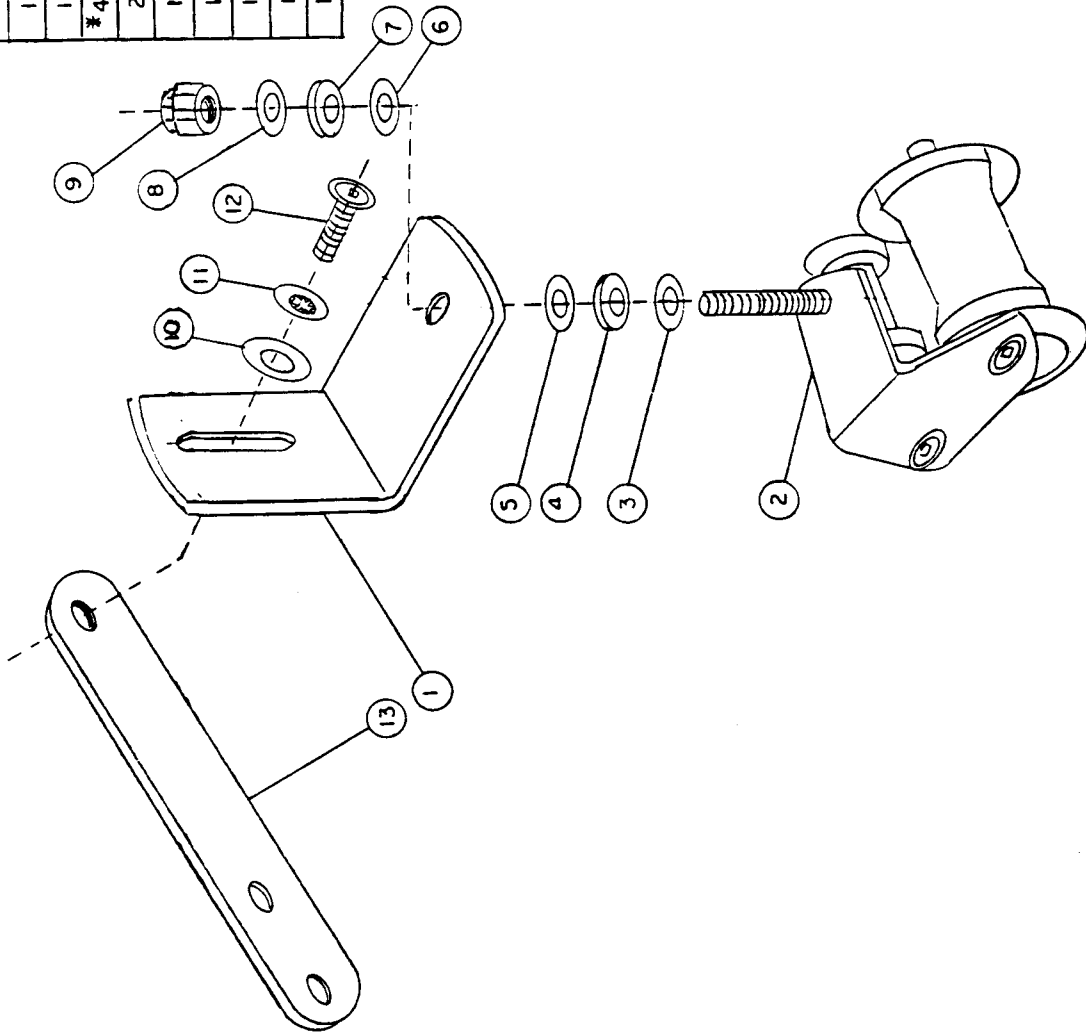


**XETRON** DIV. OF NEUMADE PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUMADE PLATTER	1 = 1	J.K	
	TITLE PLATTER ENTRY ROLLER			
	SUB ASSEMBLY			
DATE	DRAWING NUMBER			
3/18/88	11-0111000			

For Details See, Order Encls. # 07097 U.S.A. Telephone (801) 897-8200

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0112002	1	ADJUSTING SWIVEL BRACKET
1	11-0109040	2	RIGHT SWIVEL-ROLLER BRKT. SUB ASSEMBLY
*4	~	3, 5, 6, 7, 8	FLAT WASHER 1/4 I.D.
2	11-0106176	4, 7	THRUST BEARING
1	~	9	ESNA NUT 1/4 - 20
1	~	11	STAR WASHER 1/4 I.D.
1	~	12	BUTTON HEAD SCREW 1/4 - 20 X 1/2
1	11-0112001	13	EXIT BRACKET
1	~	10	FLAT WASHER 1/4 I.D.



\* FLAT WASHERS SUPPLIED WITH THRUST BEARINGS.

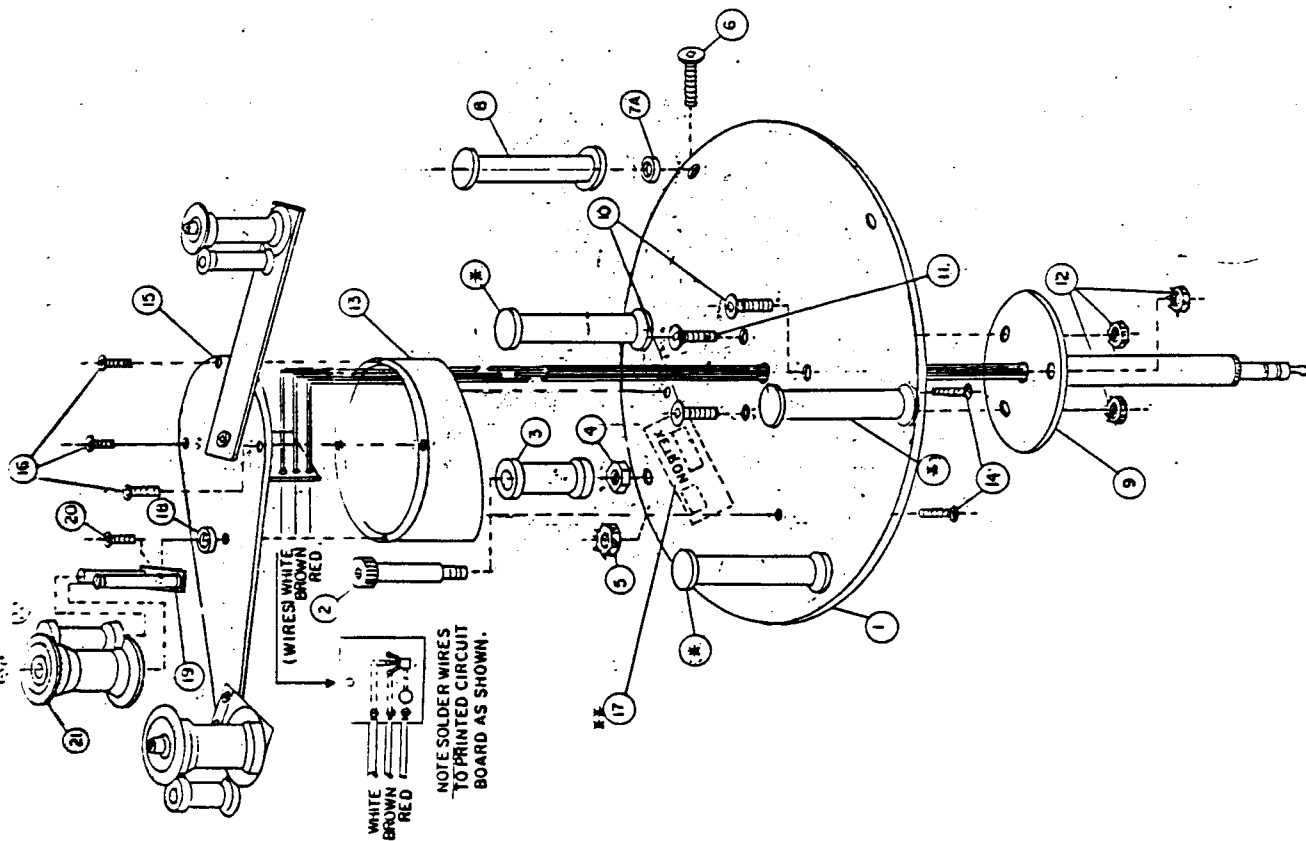
**XETRON** DIV. OF NEWMAR PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J.K.	
	TITLE			
	PLATTER EXIT ROLLER SUB ASSEMBLY			
DATE	DRAWING NUMBER			
12/16/87	11-0112000			

The Saddle Mt. Cedar Bldg. NJ 07087 U.S.A. Telephone (601) 987-8800

QTY	DWG NO.	ITEM	DESCRIPTION
1	11-0106031	1	PAYOUT HEAD PLATE
1	~	2	SHOULDER SCREW 5/16 DIA X 1/4 LG. 1/20 HEAD
1	11-0106042	3	TRAP ROLLER
1	~	4	JAM NUT 1/4 - 20
4	~	5 & 12	KEP NUT 1/4 - 20
4	~	6	BUTTON HEAD SCREW 1/4 - 20 X 3/4 LG.
4	11-0106032	8	R.H. PERIPHERAL ROLLER
1	11-0106110	9	P.J. HANDLE SUB ASSEMBLY
2	~	10	FLAT HEAD SCREW 1/4 - 20 X 1/2 LG.
1	~	11	FLAT HEAD SCREW 1/4 - 20 X 1/2 LG.
1	11-0106133	13	EMITTER DETECTOR HOUSING
6	~	14 & 16	BUTTON HEAD SCREW 6-32 X 1/2 LG.
1	11-0106120	15	E.D. HOUSING COVER SUB ASSEMBLY
5	~	7A & 18	PLASTIC WASHER .50 O.D. X .25 I.D. X .125 THK.
1	XM-018	17	INSPECTION LABEL
1	11-0106180	19 & 21	R.H. STABILIZER SUB ASSEMBLY
1	~	20	BUTTON HEAD SCREW 6-32 X 3/4 LG.
1	11-0106044	22	RETAINING RING (5/16)

\* NOTE: SAME AS ITEMS 7, 7A & 8  
 \*\* ATTACH INSPECTION LABEL UNDERSIDE  
 OF PAYOUT HEAD (AS SHOWN).



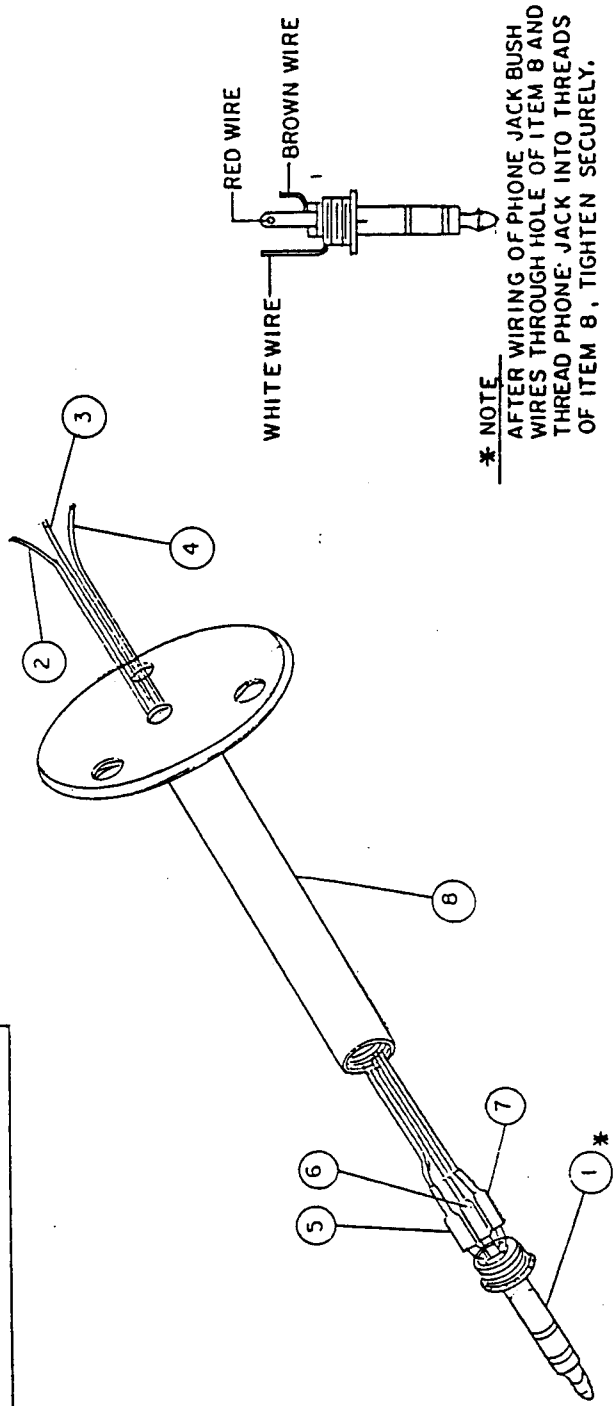
REVISIONS  
 REV. A 4/6/88 ADDED ITEM 17



TOLERANCES	PROJECT	SCALE	DRAWN BY
	NEUTRONIC PLATTER	N.T.S.	J.K
TITLE PAYOUT HEAD SUB ASSEMBLY			
DATE 1/14/88			
DRAWING NUMBER 11-0106030			

XETRON CORPORATION, Fox Garden Rd., Cedar Knolls, W.08027 U.S.A. Telephone: (703) 291-8370

QUANTITY	DWG. NO.	ITEM	DESCRIPTION
1	11-0106111	1	MALE PHONE JACK
1	~	2	NO. 22 WIRE WHITE 6" LONG
1	~	3	NO. 22 WIRE RED 6" LONG
1	~	4	NO. 22 WIRE BROWN 6" LONG
3	~	5, 6, 7	HEAT SHRINK 1/8 x 1/2 LONG
1	11-0106112	8	PHONE JACK SPINDLE



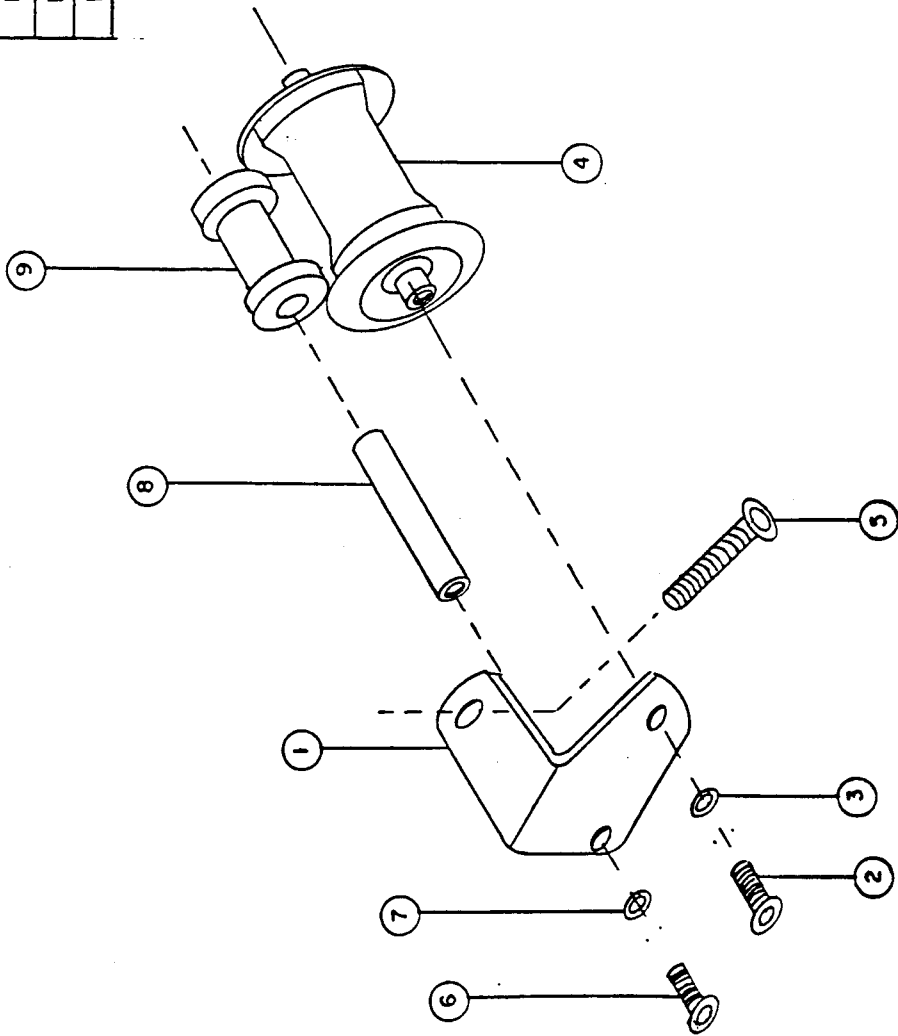
**\* NOTE**  
 AFTER WIRING OF PHONE JACK BUSH  
 WIRES THROUGH HOLE OF ITEM 8 AND  
 THREAD PHONE JACK INTO THREADS  
 OF ITEM 8, TIGHTEN SECURELY.

**XETRON** DIV. OF NETMADE PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J. K.	
	TITLE			
	PHONE JACK SPINDLE SUB 3 ASSEMBLY			
DATE	DRAWING NUMBER			
12/30/87	11-0106110			

The Saddle Rd., Cedar Knolls, NJ 07827 U.S.A. Telephone (201) 987-4900

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0109041	1	RIGHT SWIVEL BRACKET
2	~	2 & 6	BUTTON HEAD SCREW 10-32X3/8
2	~	3 & 7	SPLIT WASHER NO. 10
1	11-0106150	4	FLANGE ROLLER SUB ASSEMBLY
1	~	5	BUTTON HEAD SCREW 1/4-20X1
1	11-0106013	8	TRAP ROLLER SHAFT
1	11-0106012	9	TRAP ROLLER



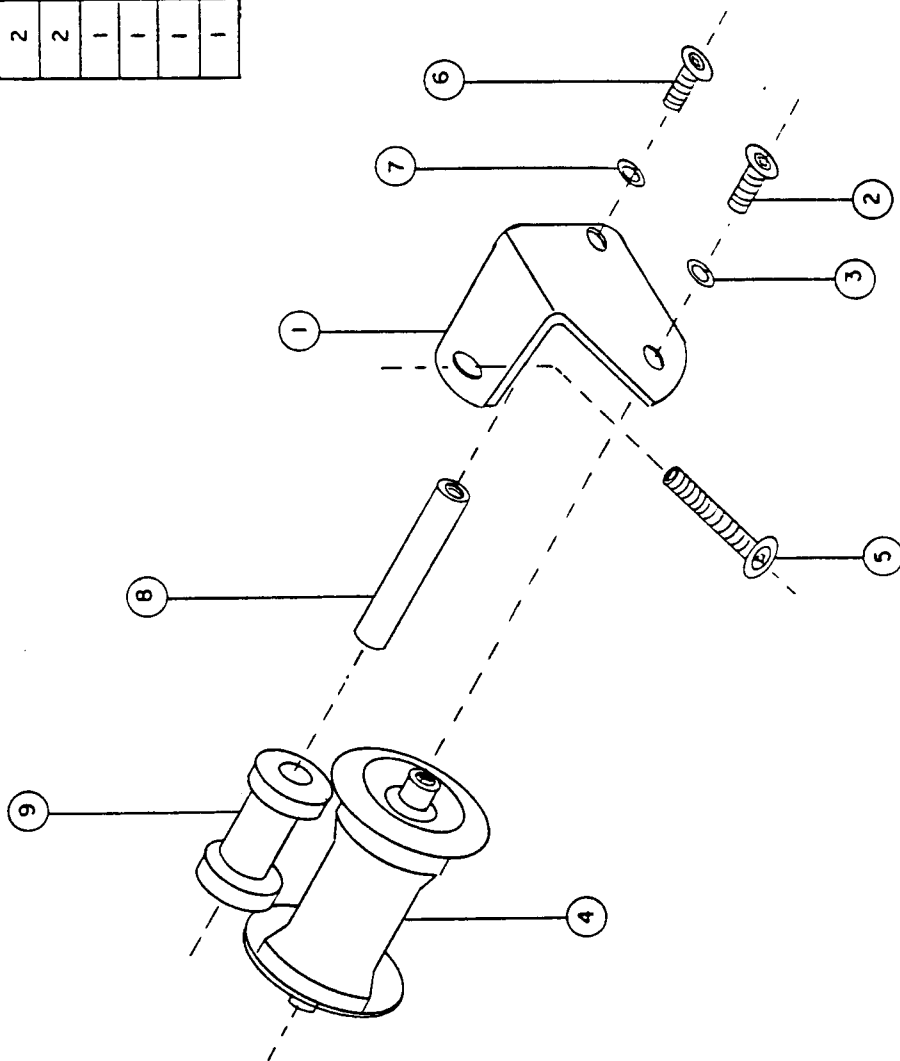
NOTE: BEFORE ASSEMBLING TRAP ROLLER AND SHAFT TO BRACKET INSERT SCREW ITEM NO. 5 INTO HOLE FROM INSIDE OF BRACKET.

**XETRON** DIV. OF NEUMANN PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J.K.	
	TITLE RIGHT SWIVEL ROLLER BRACKET			
	SUB ASSEMBLY			
DATE	DRAWING NUMBER			
11/30/87	11-0109040			



QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0109051	1	LEFT SWIVEL BRACKET
2	~	2 1/6	BUTTON HEAD SCREW 10-32 X 3/8
2	~	3 7	SPLIT WASHER NO. 10
1	11-0106150	4	FLANGE ROLLER SUB <sup>3</sup> ASSEMBLY
1	~	5	BUTTON HEAD SCREW 1/4-20 X 1
1	11-0106013	8	TRAP ROLLER SHAFT
1	11-0106012	9	TRAP ROLLER



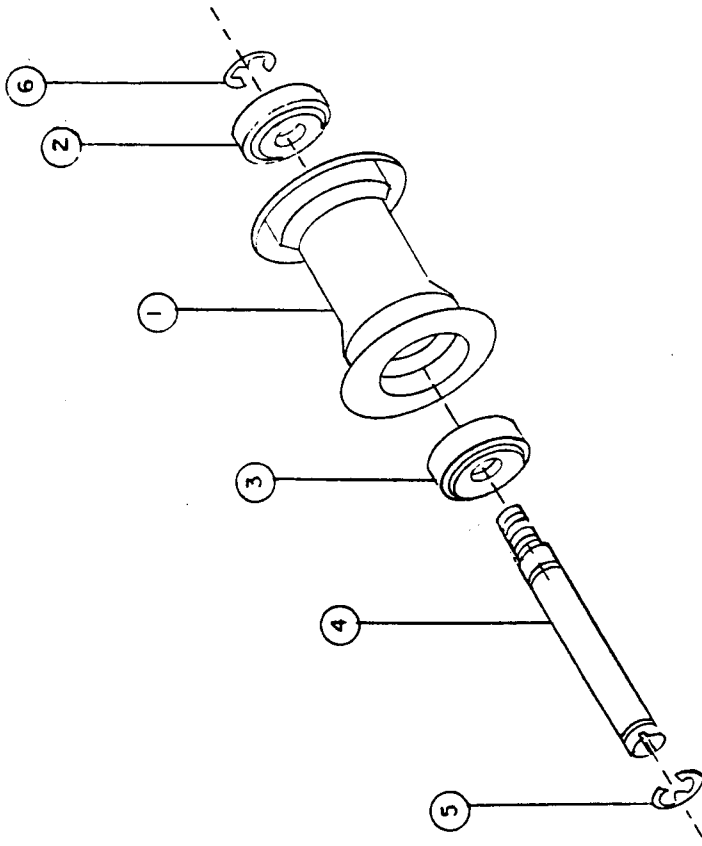
NOTE: BEFORE ASSEMBLING TRAP ROLLER AND SHAFT TO BRACKET INSERT SCREW ITEM NO. 5 INTO HOLE FROM INSIDE OF BRACKET.

**XETRON** DIV. OF NETMADE PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J.K.	
	TITLE LEFT SWIVEL ROLLER BRACKET			
	SUB 3 ASSEMBLY			
DATE	DRAWING NUMBER			
11-30-87	11-0109050			

The Spindle Mfg. Co. Inc. 1000 E. 10th St., Minneapolis, MN 55415 U.S.A. Telephone (612) 887-8800

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106151	1	FLANGE ROLLER
2	11-0106152	2, 3	ROLLER BEARING
1	11-0113001	4	PAYOUT ROLLER SHAFT
2	11-0106044	5, 6	RETAINING RING 5/16

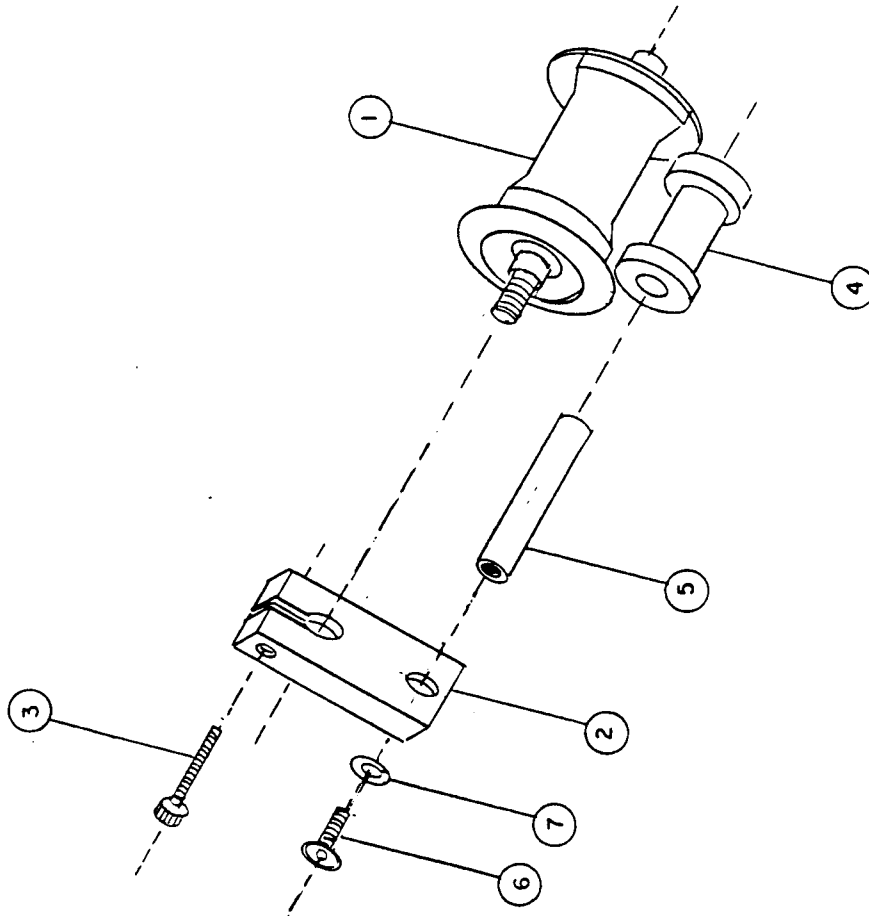


**XETRON** DIV. OF NEWMARK PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J. K.	
	TITLE			
	PAYOUT EXIT ROLLER SUB-ASSEMBLY			
DATE	DRAWING NUMBER			
12/17/87	11-0113000			

The Shuttle Rd. Cedar Rapids, IA 52407 U.S.A. Telephone (319) 397-5200

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0113000	1	PAYOUT EXIT ROLLER SUB ASSEMBLY
1	11-0114001	2	TURN AROUND BRACKET
1	~	3	ALLEN CAP SCREW 6-32 X 3/4 LG
1	11-0106012	4	TRAP ROLLER
1	11-0106013	5	TRAP ROLLER SHAFT
1	~	6	BUTTON HEAD SCREW 10/32 X 3/8
1	~	7	SPLIT WASHER NO. 10

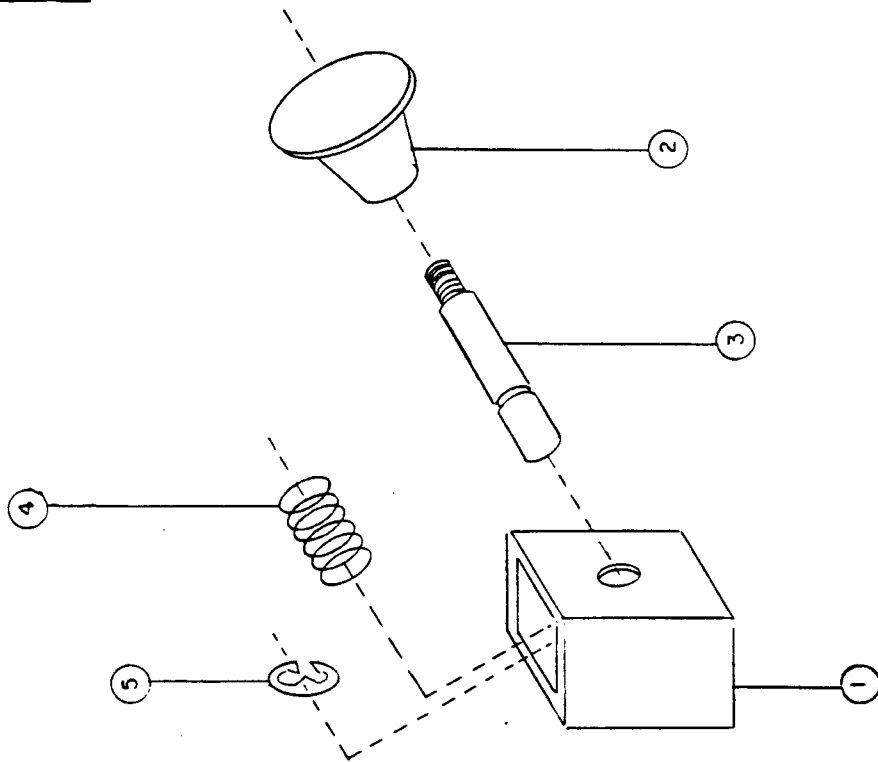


**XETRON** DIV. OF NEUMALDE PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J. K.	
	TITLE			
	TURN AROUND ROLLER SUB ASSEMBLY			
DATE	DRAWING NUMBER			
12/18/87	11-0114000			

Two Biddle Rd., Cedar Knolls, NJ 07837 U.S.A. Telephone (801) 897-5300

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0109021	1	INDEX PIN BLOCK
1	11-0109022	2	INDEX PIN KNOB
1	11-0109023	3	SLIDER STOP PIN
1	11-0109024	4	SLIDER PIN SPRING
1	11-0109025	5	RETAINING RING 3/8

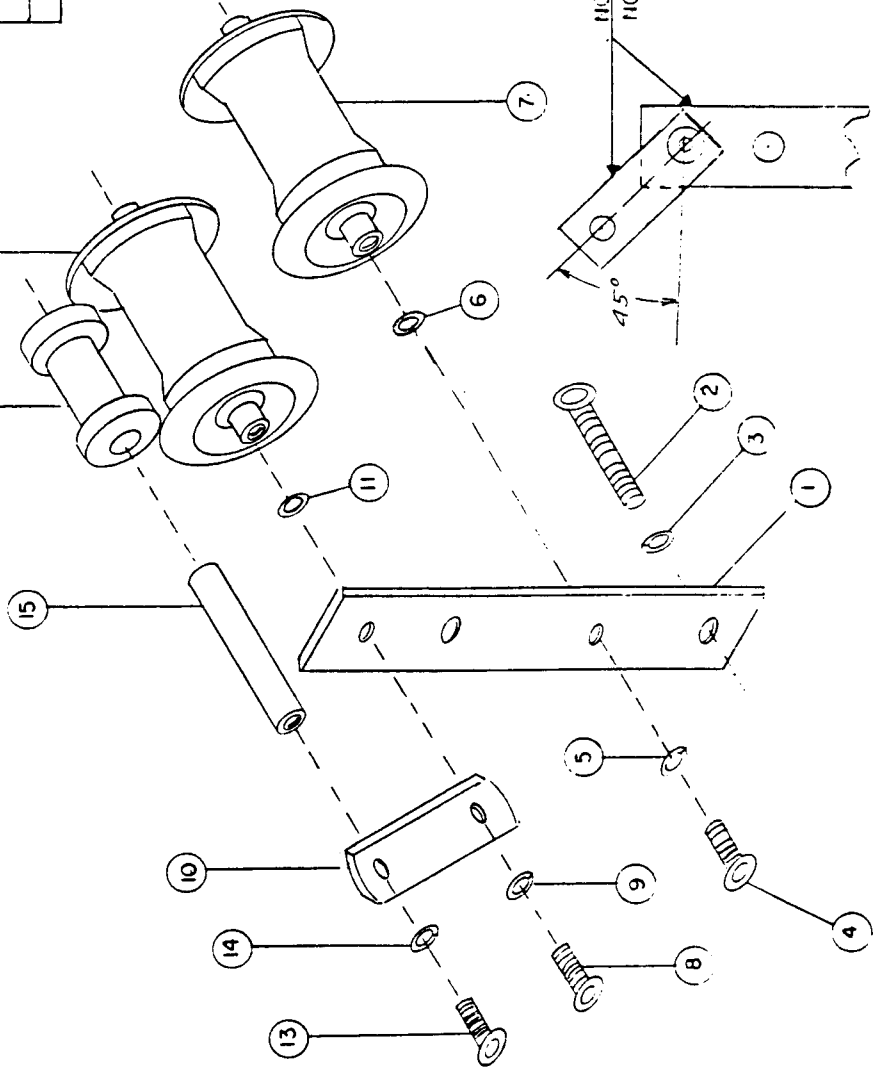


**XETRON** DIV. OF NEUMADE PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J. K.	
	TITLE	INDEX PIN BLOCK SUB 3 ASSEMBLY		
DATE	DRAWING NUMBER			
12/3/87	11-0109020			

The Shuttle Rd., Cedar Rapids, IA 51007 U.S.A. Telephone (319) 397-4000

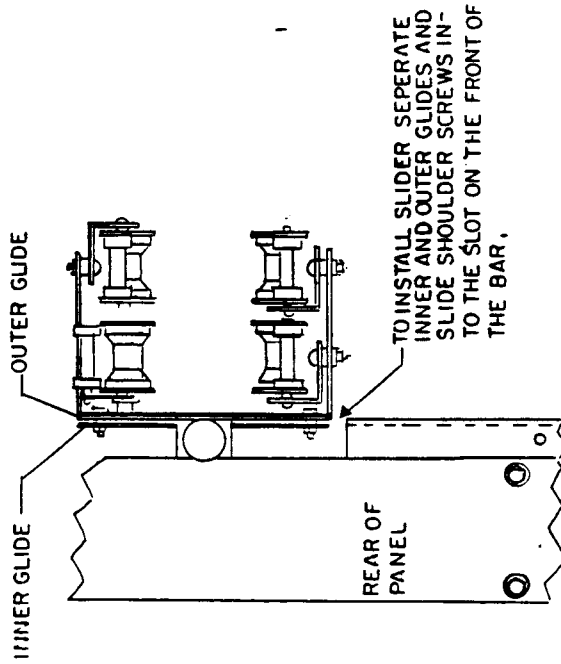
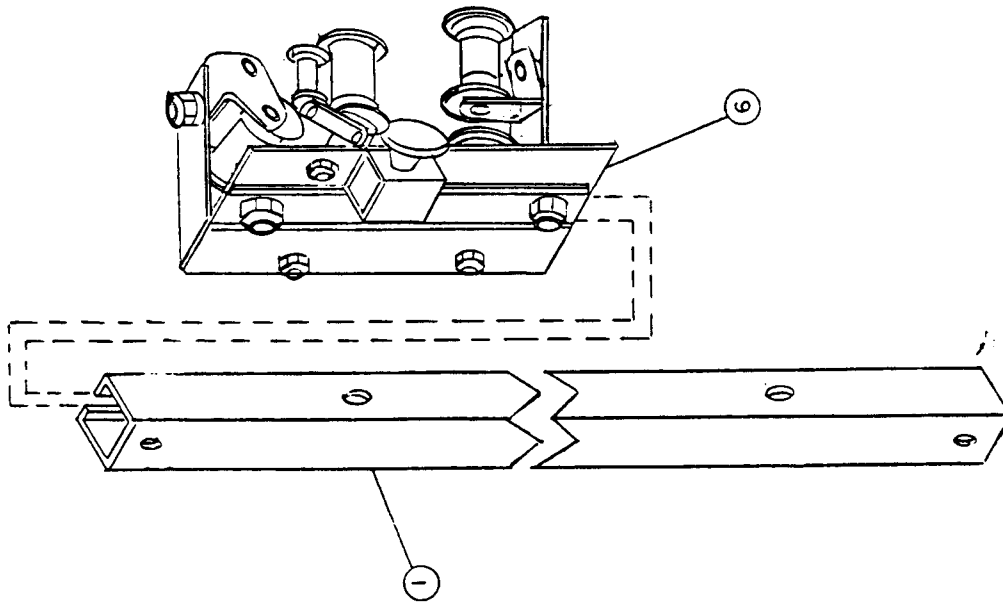
QTY.	DWG. NO.	ITEM	DESCRIPTION
1	11-0109031	1	SLIDER ENTRANCE ROLLER BRACKET
1	~	2	BUTTON HEAD SCREW 10-32 X 1
4	~	3, 5, 9, 14	SPLIT WASHER NO. 10
2	11-0106150	7, 12	FLANGE ROLLER SUB <sup>5</sup> ASSEMBLY
3	~	4, 8, 13	BUTTON HEAD SCREW 10-32 X 3/8
1	11-0106014	10	TRAP ROLLER BRACKET
1	11-0106013	15	TRAP ROLLER SHAFT
1	11-0106012	16	TRAP ROLLER
2	~	6, 11	FLAT WASHER NO. 10



**XETRON** DIV. OF NETMADE PRODUCTS CORP.

TO DIMENSIONS	PROJECT	SCALE	DRAWN BY	APPROVED
	MICROTRONIC PLATTER	1=1	J.K.	
TITLE				
ENTRANCE ROLLER BRACKET SUB <sup>3</sup> - ASSEMBLY				
DRAWING NUMBER				
11-0109030				
DATE				
12/2/67				

QJAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0109001	1	SLIDE BAR
1	11-0109010	2	TAKEUP SLIDER SUB <sup>2</sup> ASSEMBLY



**XETRON** DIV. OF NEWMARK PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	N.T.S.	J. K.	
	TITLE			
	SLIDER BAR SUB ASSEMBLY			
DATE	DRAWING NUMBER			
12/22/67	11-0109000			

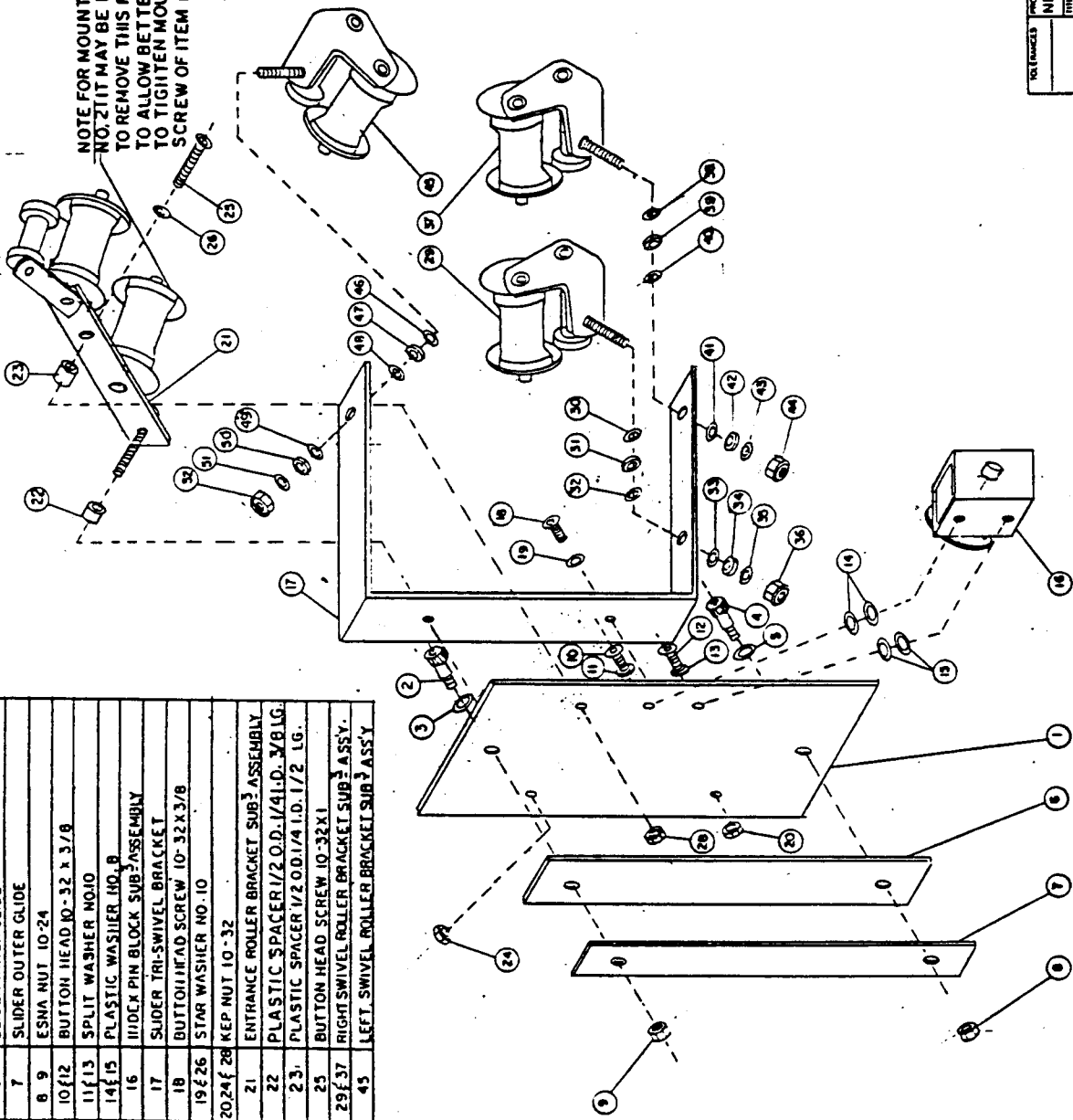
Tom Markle Rd., Cedar Knolls, NY 07987 U.S.A. Telephone (911) 887-8820

QUAN.	DWG. I.D.	ITEM	DESCRIPTION
1	11-009001	1	SLIDER MAIN PLATE
2	24	24	SHOULDER CAP SCREW 1/4 X 3/8 10-24 THREAD
2	35	35	FLAT WASHER 1/4
1	11-009003	6	SLIDER INNER GLIDE
1	11-009002	7	SLIDER OUTER GLIDE
2	8	8	ESNA NUT 10-24
2	10	10	BUTTON HEAD 10-32 X 3/8
2	11	11	SPLIT WASHER NO.10
2	14	14	PLASTIC WASHER NO. 8
1	11-009020	16	INDEX PIN BLOCK SUB-ASSEMBLY
1	11-009014	17	SLIDER TRI-SWIVEL BRACKET
1	18	18	BUTTON HEAD SCREW 10-32 X 3/8
2	19	19	STAR WASHER NO.10
3	20	20	KEP NUT 10-32
1	11-009030	21	ENTRANCE ROLLER BRACKET SUB-ASSEMBLY
1	11-009016	22	PLASTIC SPACER 1/2 O.D. 1/4 I.D. 3/8 LG.
1	11-009005	23	PLASTIC SPACER 1/2 O.D. 1/4 I.D. 1/2 LG.
1	25	25	BUTTON HEAD SCREW 10-32 X 1
2	11-009040	29	RIGHT SWIVEL ROLLER BRACKET SUB-ASSY.
1	11-009030	45	LEFT SWIVEL ROLLER BRACKET SUB-ASSY.

QUAN.	DWG. NO.	ITEM	DESCRIPTION
12	11-006176	SEE B	FLAT WASHER 1/4 I.D.
6	11-006176	SEE #	THRUST BEARING
3	36, 44, 52	ESNA NUT 1/4	

NOTE FOR MOUNTING ITEM NO. 21 IT MAY BE DESIRABLE TO REMOVE THIS ROLLER TO ALLOW BETTER ACCESS TO TIGHTEN MOUNTING SCREW OF ITEM NO. 22.

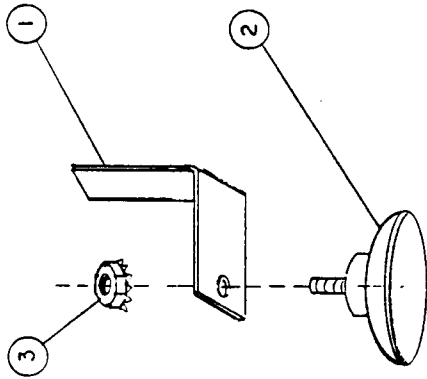
SUPPLIED WITH THRUST BEARINGS \* 30, 32, 33, 35, 38, 40, 41, 43, 46, 48, 49, 51 \*\* 31, 34, 39, 42, 47, 50



**XEROX**  
CORPORATION

PROJECT: NEUTRONIC PLATTER N.T.S.  
SCALE: N.T.S.  
DESIGNED BY: J.K.  
TITLE: TAKEUP SLIDER SUB-ASSEMBLY  
DRAWING NUMBER: 17  
REV. NO.: 390

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106161	1	VACUUM CUP BRACKET
1	11-0106162	2	VACUUM CUP
1	~	3	KEP NUT 8-32



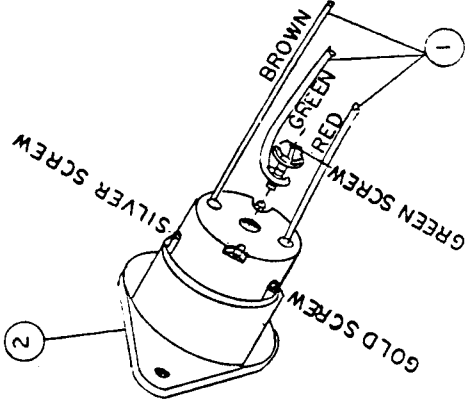
**XETRON** DIV. OF NEWMARK PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	FULL	J.K.	
2/4/88	TITLE	VACUUM CUP SUB-ASSEMBLY		
2/4/88	DRAWING NUMBER	11-0106160		

The Shuttle Bld., Center Exch. W. 07087 U.S.A. Telephone (901) 987-4800



QUAN	DWG. NO.	ITEM	DESCRIPTION
~	11-0101000	1	MAIN HARNESS
1	11-0107001	2	TWIST LOCK RECEPTACLE



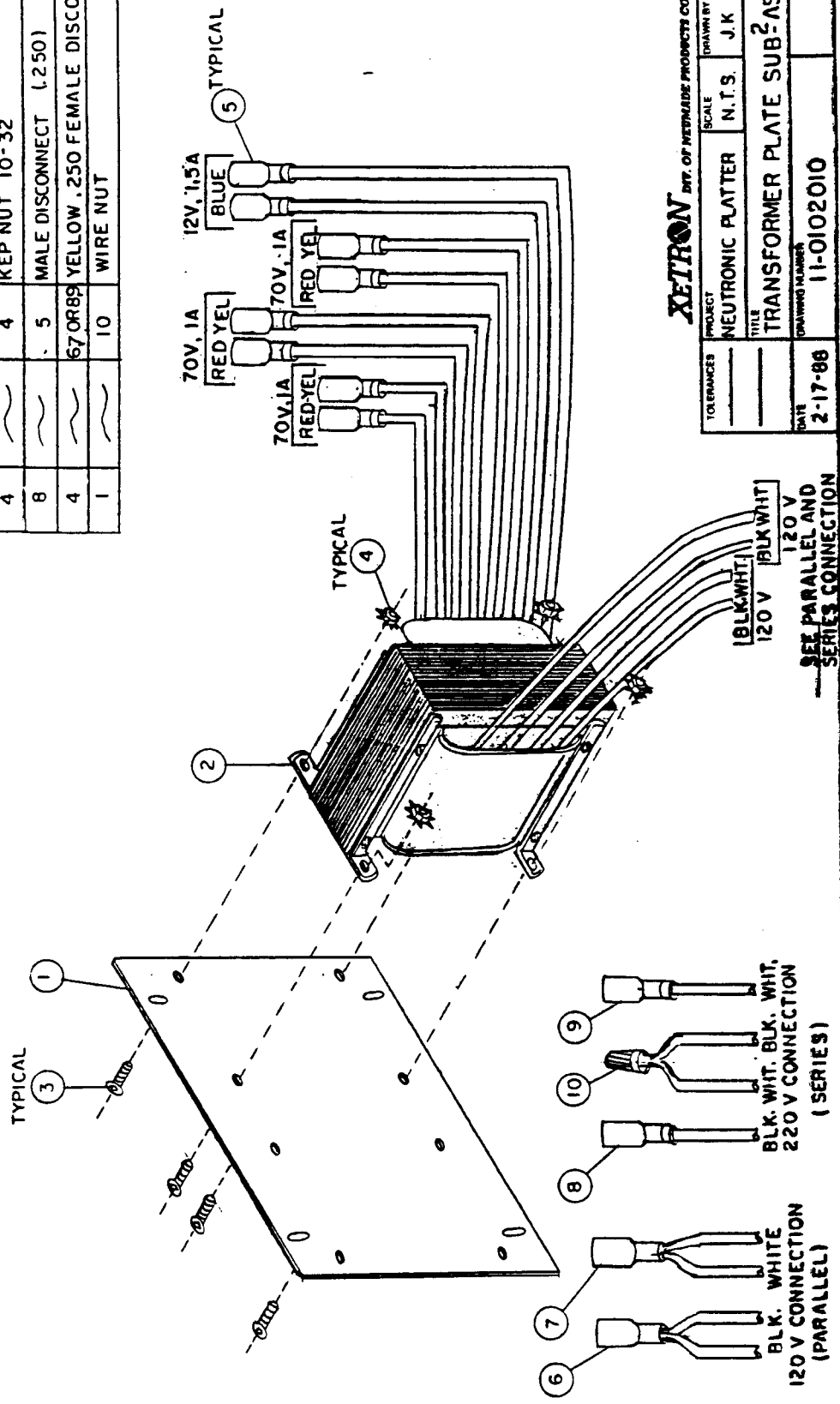
NOTE: BLACK WIRE SILVER SCREW  
 RED WIRE GOLD SCREW  
 GREEN WIRE GREEN SCREW

**XETRON** DIV. OF NEUMAID PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	N.T.S	J.K.	
TITLE		DRAWING NUMBER		
TWIST LOCK RECEPTACLE SUB ASS'Y.		11-0107000		
DATE				
2-25-68				

Ten Shocks Rd., Cedar Knolls, W 07087 U.S.A. Telephone (801) 867-8200

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0102011	1	TRANSFORMER PLATE
1	11-0102012	2	TRANSFORMER
4	~	3	BUTTON HEAD SCREW 10-32 X 1/2 LG.
4	~	4	KEP NUT 10-32
8	~	5	MALE DISCONNECT (.250)
4	~	670R89	YELLOW .250 FEMALE DISCONNECT
1	~	10	WIRE NUT



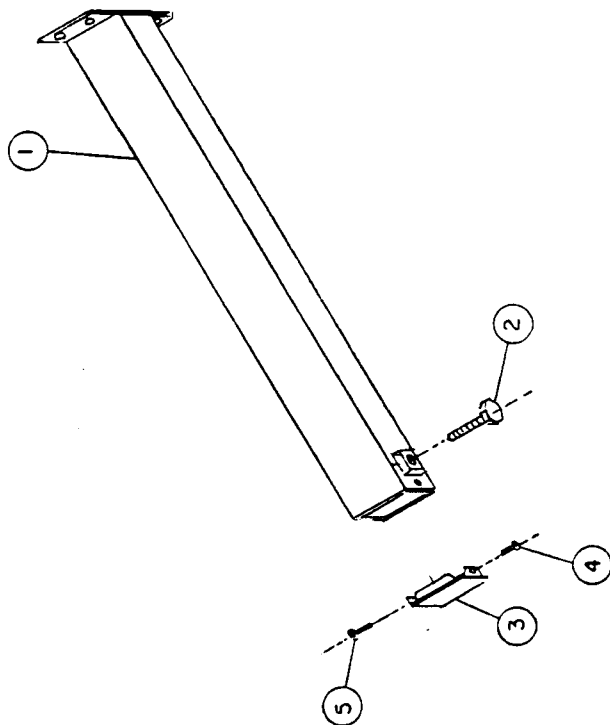
**XETRON** DIV. OF MEDMARE PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	APPROVED
	NEUTRONIC PLATTER	N.T.S.	J.K.
	TITLE		
	TRANSFORMER PLATE SUB-ASSEMBLY		
DATE	DRAWING NUMBER		
2-17-86	11-0102010		

SEE PARALLEL AND SERIES CONNECTION

Van Nuys Rd., Cedar Rapids, IA 52407 U.S.A. Telephone (319) 397-5000

QUAN.	DWG. NO	ITEM	DESCRIPTION
1	11-0104001	1	MAST LEG (LEFT AND RIGHT)
1	11-0103001	2	ADJUSTING FEET 1/2 - 16 X 3" LONG
1	11-0104002	3	LEG END COVER BLANK
2	~	4 & 5	BUTTON HEAD SCREW 8-32 X 3/8 LONG

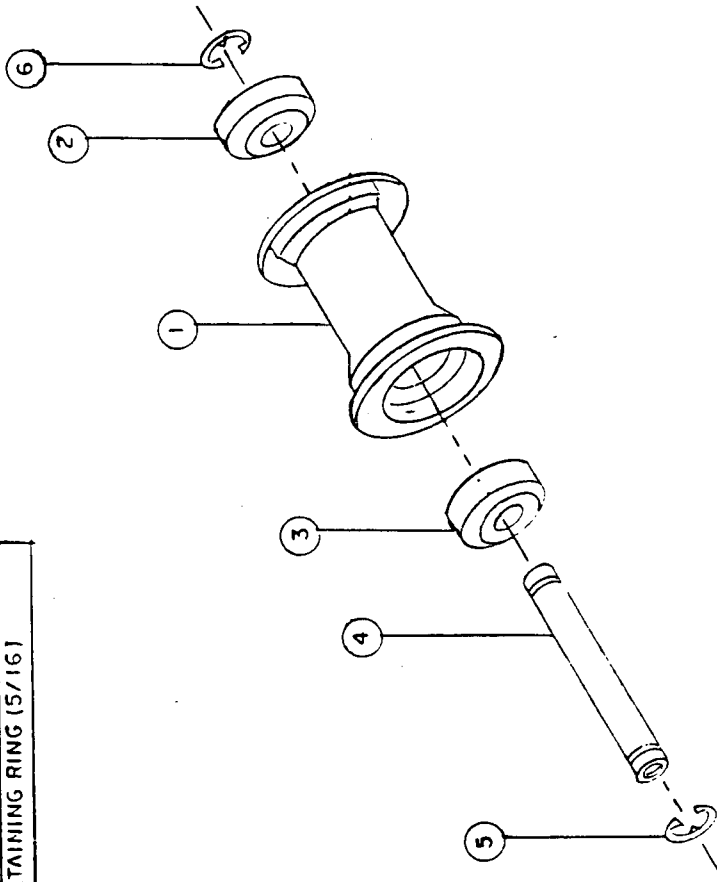


**XETRON** DIV. OF NEUMAID PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	N.T.S.	J. K.	
	TITLE	MAST LEG SUB-ASSEMBLY		
DATE	DRAWING NUMBER			
2/26/88	11-0104000			

The Scribble Rtd., Cedar Knolls, NJ 07637 U.S.A. Telephone (801) 297 8900

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106151	1	FLANGE ROLLER
2	11-0106152	2 & 3	ROLLER BEARING
1	11-0106153	4	ROLLER BEARING SHAFT (5/16)
2	11-0106144	5 & 6	RETAINING RING (5/16)



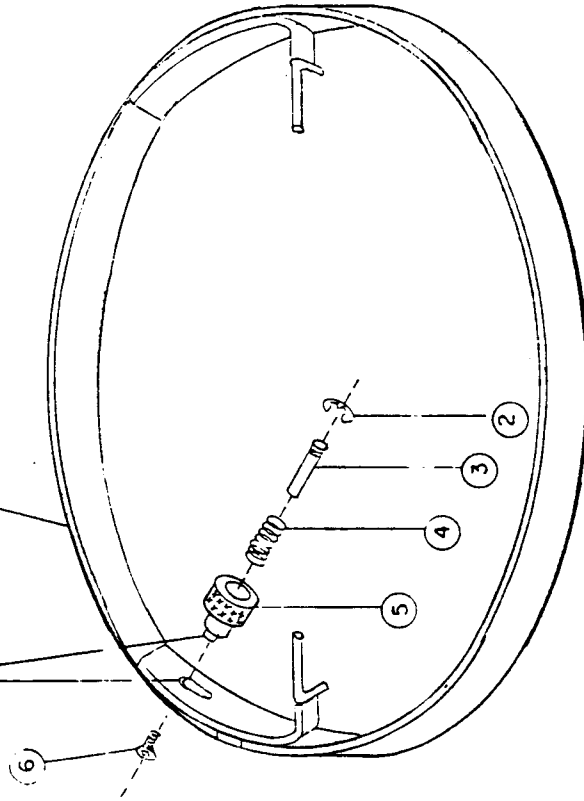
**XETRON** DIV. OF NEUMANN PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J.K.	
	TITLE	FLANGE ROLLER SUB-ASSEMBLY		
DATE	DRAWING NUMBER			
11-24-87	11-0106150			

Tex Saddle Bldg., Cedar Falls, MO 67837 U.S.A. Telephone (817) 267-8800

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106041	1	TAKE UP RING
1	11-0106044	2	RETAINING RING 5/16
1	11-0106013	3	TRAP ROLLER SHAFT
1	11-0106043	4	TAKE-UP RING SPRING
1	11-0105042	5	TAKE-UP RING KNOB
1		6	FLAT HEAD SCREW 10-32 X 3/8 LG.

NOTE KNOB MUST MOVE FREELY FROM  
SIDE TO SIDE IN SLOT.



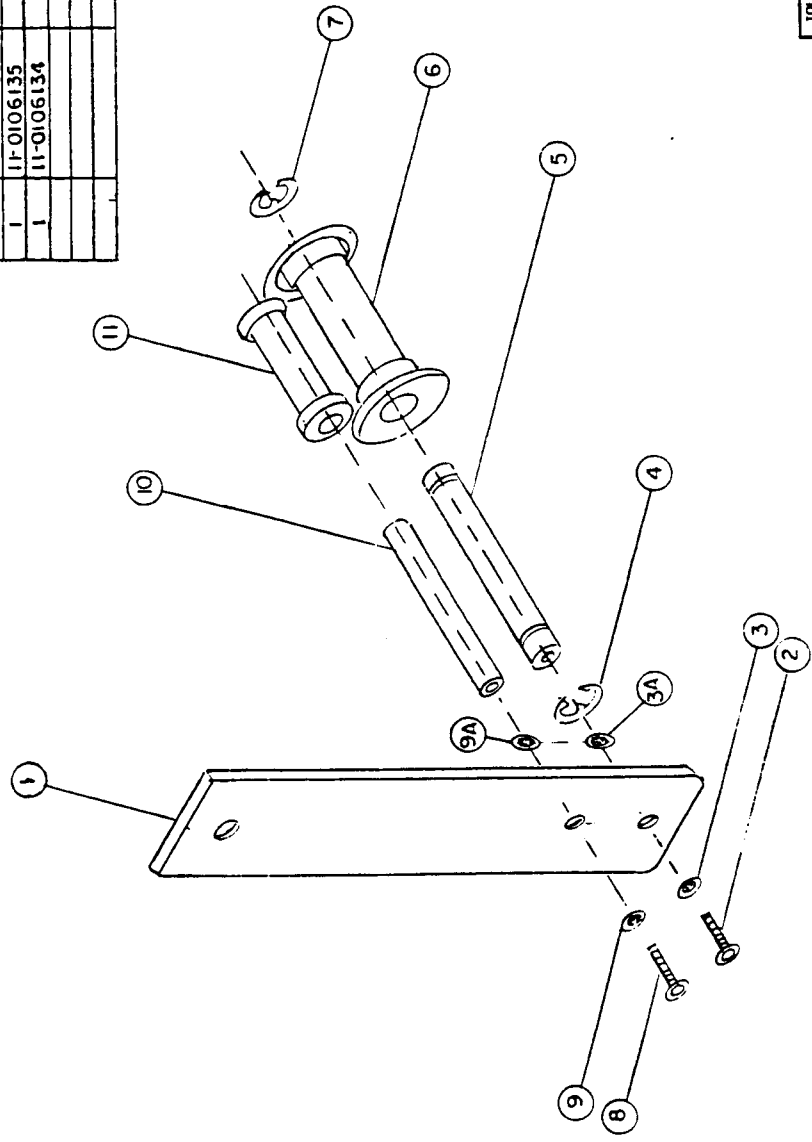
REVISIONS  
REV. A 4/8/88 ITEM NO. 3 WAS 11-0106179

**XETRON** DIV. OF NEUMAID PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	N.T.S	J. K.	
	TITLE	TAKE-UP RING SUB-ASSEMBLY		
DATE	DRAWING NUMBER			
1/12/88	11-0106040			

Pen Saddle Rd., Cedar Knolls, NJ 07827 U.S.A. Telephone (901) 987-8200

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106131	1	PAYOUT HEAD ARM
2	~	2 88	BUTTON HEAD SCREW 6-32 X 3/8
4	~	3A, 9A	STAR WASHER NO. 6
2	11-0106044	4 8, 7	RETAINING RING
1	11-0106132	5	ARM ROLLER SHAFT
1	11-0106133	6	ARM ROLLER
1	11-0106135	10	ARM TRAP SHAFT
1	11-0106134	11	ARM TRAP ROLLER

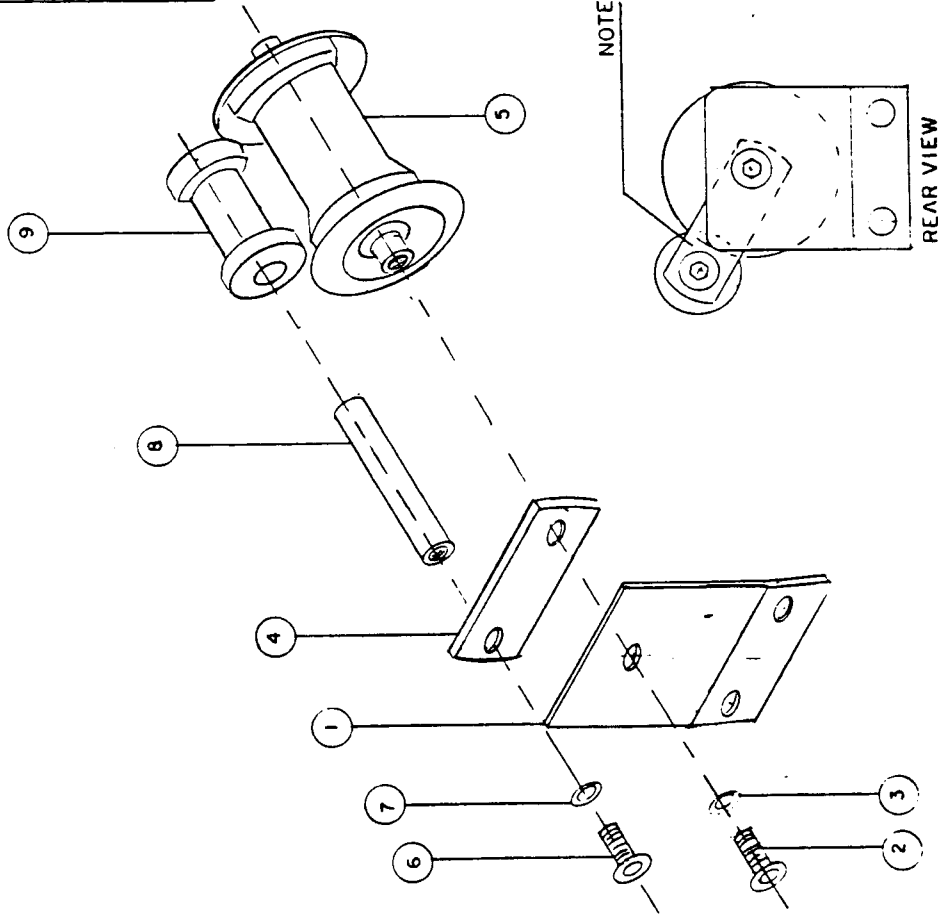


**XETRON** DIV. OF NEUMATEL PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J.K.	
	TITLE			
	PAYOUT HEAD ARM SUB-ASSEMBLY			
DATE	DRAWING NUMBER			
11/24/87	11-0106130			

Ten Bulte Rd., Cedar Knolls, OH 43087 U.S.A. Telephone (601) 887-8300

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0106141	1	P.H. EXIT ROLLER BRACKET
2	~	2	BUTTON HEAD SCREW 10/32X3/8
2	~	3	SPLIT WASHER NO. 10
1	11-0106014	4	TRAP ROLLER BRACKET
1	11-0106150	5	FLANGE ROLLER SUB-ASSEMBLY
1	11-0106013	8	TRAP ROLLER SHAFT
1	11-0106012	9	TRAP ROLLER



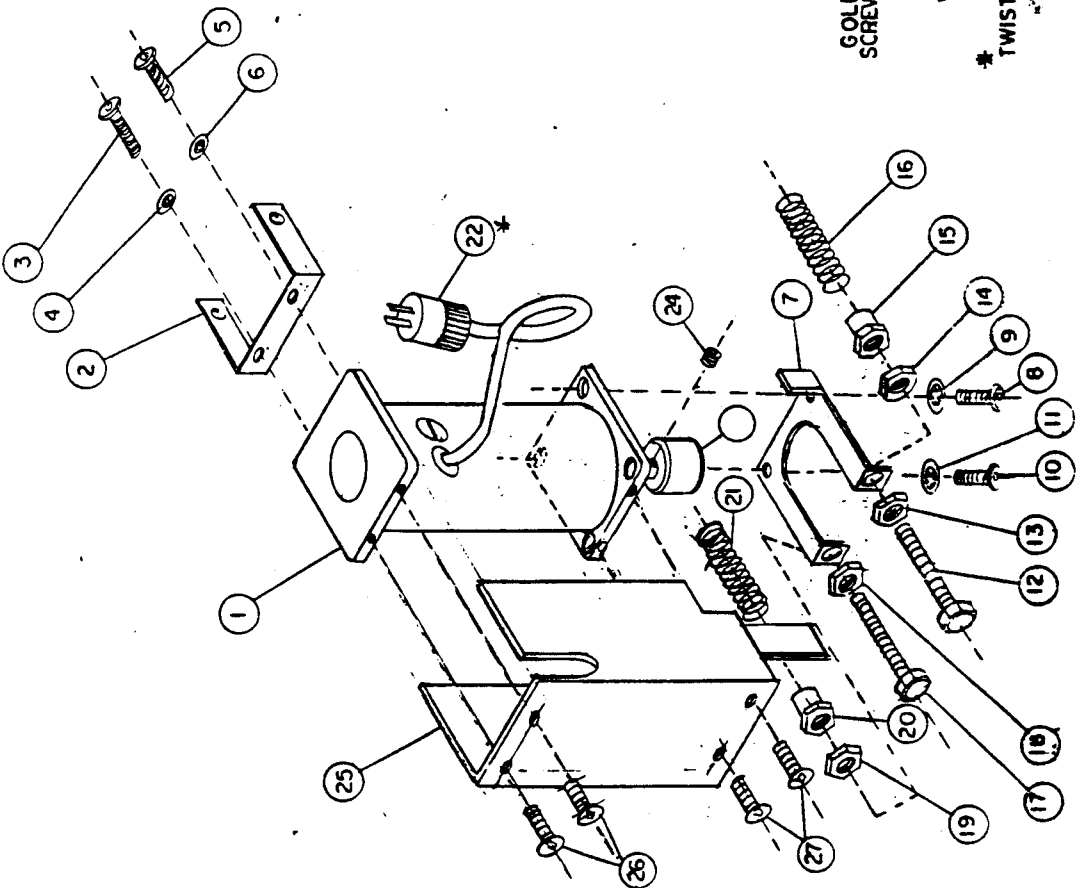
NOTE  
AFTER ASSEMBLY OF ROLLER BRACKET,  
POSITION TRAP ROLLER BRACKET AT  
30° OR AS SHOWN.

**XETRON** DIV. OF NEUMAID PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	1=1	J.K.	
	TITLE			
	P.H. EXIT ROLLER BRACKET SUB-ASSEMBLY			
DATE	DRAWING NUMBER			
11-25-87	11-0106140			

The Sealed Air, Cedar Knolls, NJ 07937 U.S.A. Telephone (901) 387-8200

QUAN.	DWG. NO.	ITEM	DESCRIPTION
1	11-0116001	1	MOTOR
1	11-0116002	2	MOTOR BRACKET
2	~	3, 5	BUTTON HEAD SCREW 1/4-20 X 3/4
4	~	4, 6, 9, 11	STAR WASHER 1/4 I.D.
1	11-0116003	7	MOTOR SPRING BRACKET
6	~	8, 10, 26, 27	BUTTON HEAD SCREW 1/4-20 X 1/2
2	~	12, 17	HEX HEAD SCREW 1/4-20 X 1 3/4
4	~	13, 14, 18, 19	KEPT NUT 1/4-20
2	11-0116005	15, 20	SPRING ADJUSTMENT NUT
2	11-0116004	16, 21	MOTOR SPRING
1	11-0116008	22	TWIST LOCK PLUG
1	11-0116010	23	MOTOR PUCK SUB <sup>3</sup> ASSEMBLY
1	~	24	SET SCREW 1/4-20 X 1/4 LONG
1	11-0116009	25	MOTOR MEGNET SHIELD



NOTE: MOUNT ITEM 2 WITH OFF SET HOLES AT TOP OF BRACKET.

REVISIONS  
REV. A DATE 8/12/88 ADDED ITEM NO.25.

**XETRON** DIV. OF NEWMARK PRODUCTS CORP.

TOLERANCES	PROJECT	SCALE	DRAWN BY	APPROVED
	NEUTRONIC PLATTER	N.T.S	J.K.	
TITLE				
MOTOR SUB ASSEMBLY				
DRAWING NUMBER				
DATE				
12/13/87				
				11-0116000