

VIP-35

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VIP-35 MANUAL

BALLANTYNE OF OMAHA, INC.

A SUBSIDIARY OF CANRAD-HANOVIA, INC.

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Omaha, Nebraska 68102

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FORWARD

For years, the motion picture industry has had a great need for completely packaged booth equipment that is simply installed and operational in a very short time. The new Ballantyne VIP-35 has been designed to meet this need.


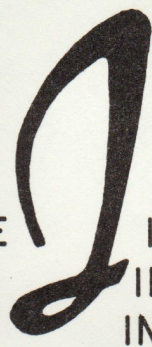
The VIP-35 incorporates projectors, soundheads, amplification, and complete automation. The VIP pedestal is a quality, precision-engineered combination of lower take-up, power supply, exciter lamp supply, power amplifier, monitor, and a completely dependable automation system. The easily accessible, simply operated automation panel is mounted on the front of the principal pedestal which is called the MASTER. The secondary panel is mounted on the other pedestal and is called the SLAVE. Throughout this manual they are referred to as Master VIP and Slave VIP or, simply, Master or Slave.

Ballantyne does not manufacture xenon lamps and power supplies. Therefore, space is provided to accept all power supplies in manufacture as of September 1, 1972. It is recommended that the lamps and power supplies be shipped by the Ballantyne dealer to the Ballantyne factory where they will be installed and tested with the entire system.

Prior to installation, Ballantyne ships a 6' wiring channel to the theatre with full instructions to the electrician to install it near floor level between the portholes, run 110/220V lines, speaker wires, curtain control line, masking control wire, and dimmer control wires to this channel. The booth is then ready to accept the equipment.

The entire VIP-35 system, both the Master and the Slave, with power supply installed, and the lamps mounted and tested, is shipped from Omaha to any theatre in the Continental United States by moving van, much the same as delicate, priceless furniture! Movers carry the VIP-35 Master and Slave to the projection room and place them at the projector portholes. All that is left is to level the base, plug in the complete equipment, install the lenses, focus the lamps, and file apertures.

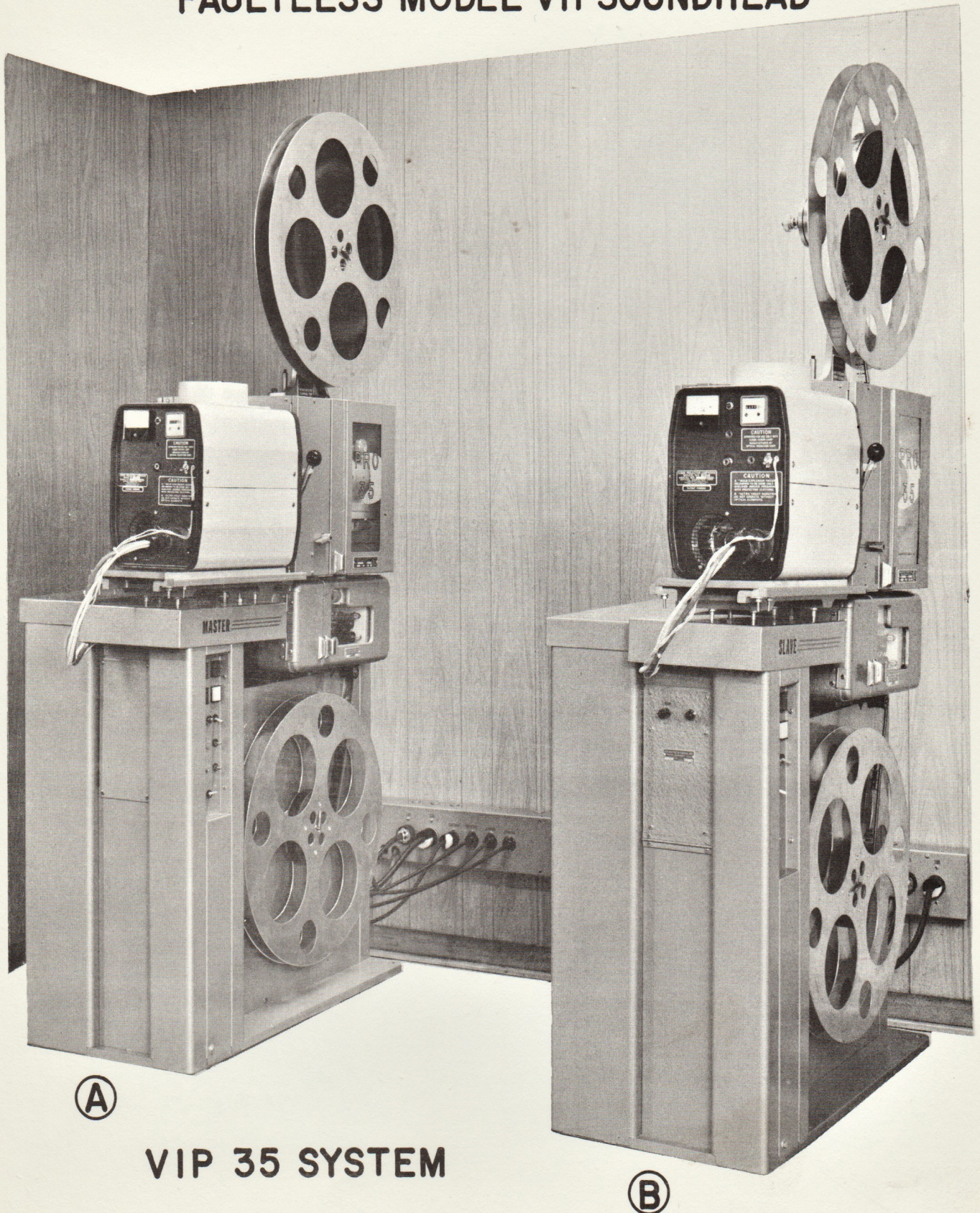
With correct preparation, within a very few hours, you have complete automation with a rock-steady brilliant picture with perfect sound from your

		
VALUABLE VARIABLE VITAL	INNOVATIVE INFALLIBLE INGENIOUS	PRE-ENGINEERED PROJECTOR PEDESTAL

Best of all -- you'll make Very Impressed People Very Important Patrons.

VIP 35

COMBINED WITH THE FAMOUS PRO-35 PROJECTOR AND
FAULTLESS MODEL VII SOUNDHEAD



Ⓐ

VIP 35 SYSTEM

Ⓑ

A SYSTEM CONSISTS OF A MASTER UNIT Ⓐ AND A SLAVE
SYSTEM Ⓑ. ALL THROUGH THIS MANUAL, THE SYSTEM
WILL BE REFERRED TO AS MASTER SYSTEM- SLAVE SYSTEM

VIP MASTER SYSTEM

WILL ACCEPT
ANY MANUFACTURERS
XENON LAMP

MASTER
CONTROL PANEL

MONITOR SPEAKER
WITH VOLUME
CONTROL

MAIN POWER
AMPLIFIER VOLUME
CONTROL

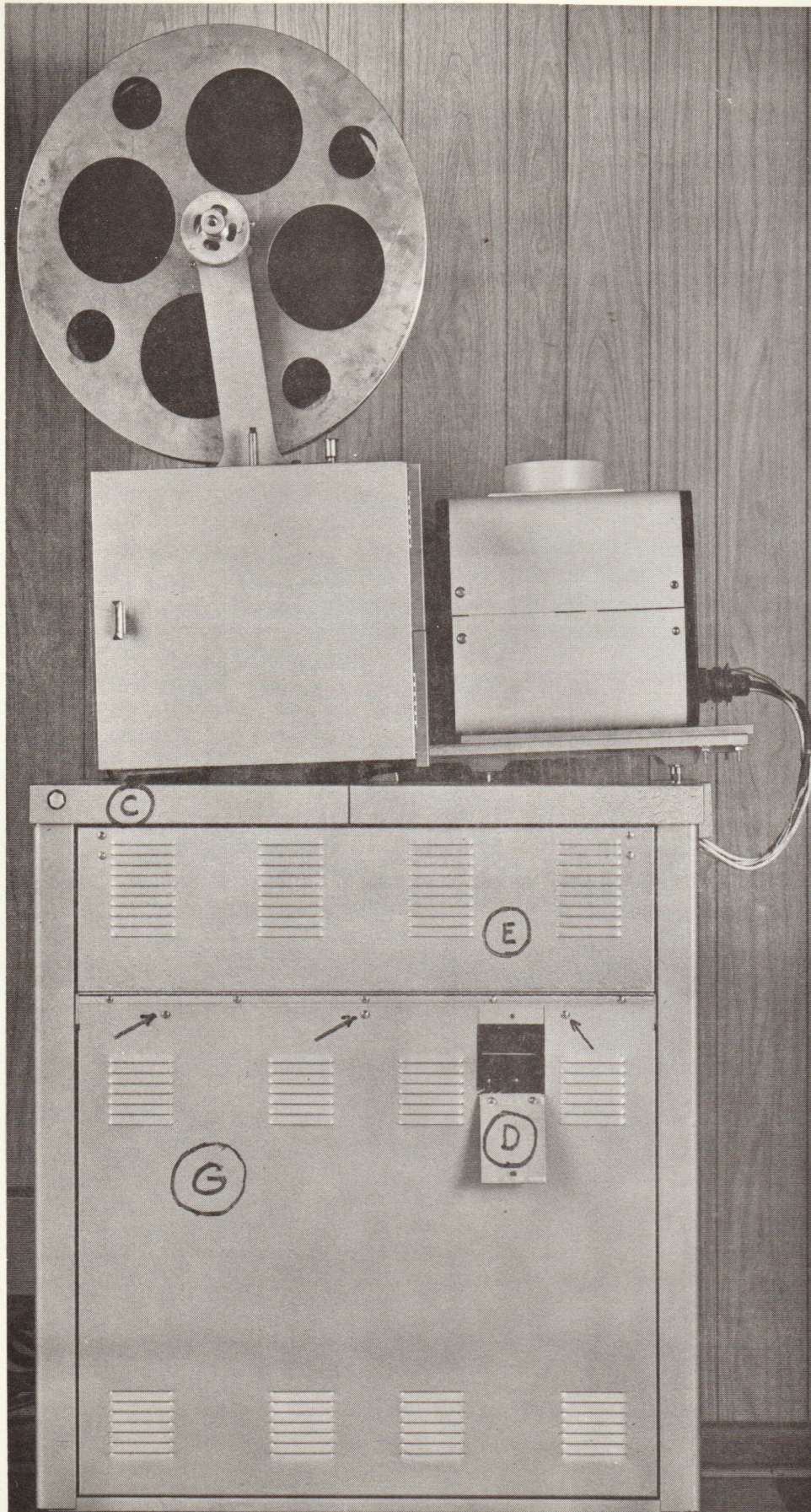
LEVELING SCREWS (4)

BASE SHOULD BE OFF FLOOR ON LEVELING
SCREWS AT LEAST 1" FRONT AND REAR. MORE
THAN 1" IS VERY ACCEPTABLE

FIGURE 2

VIP

NON FILM SIDE



THE NON OPERATING
SIDE HOUSES THE

1. MASTER AUTOMATION
CHASSIS
2. MAIN POWER AMP-
LIFIER
3. CHANGE-OVER D.C.
SUPPLY
4. CIRCUIT BREAKER
5. XENON POWER
SUPPLY
6. LOWER TAKEUP

BEHIND HINGED DOOR
(E) IS POWER AMPLIFIER
CHANGE - OVER POWER
SUPPLY, SEE FIGURE 4

BEHIND HINGED DOOR
(D) IS THE 4 CIRCUIT
20 AMP CIRCUIT
BREAKER, SEE
FIGURE 5

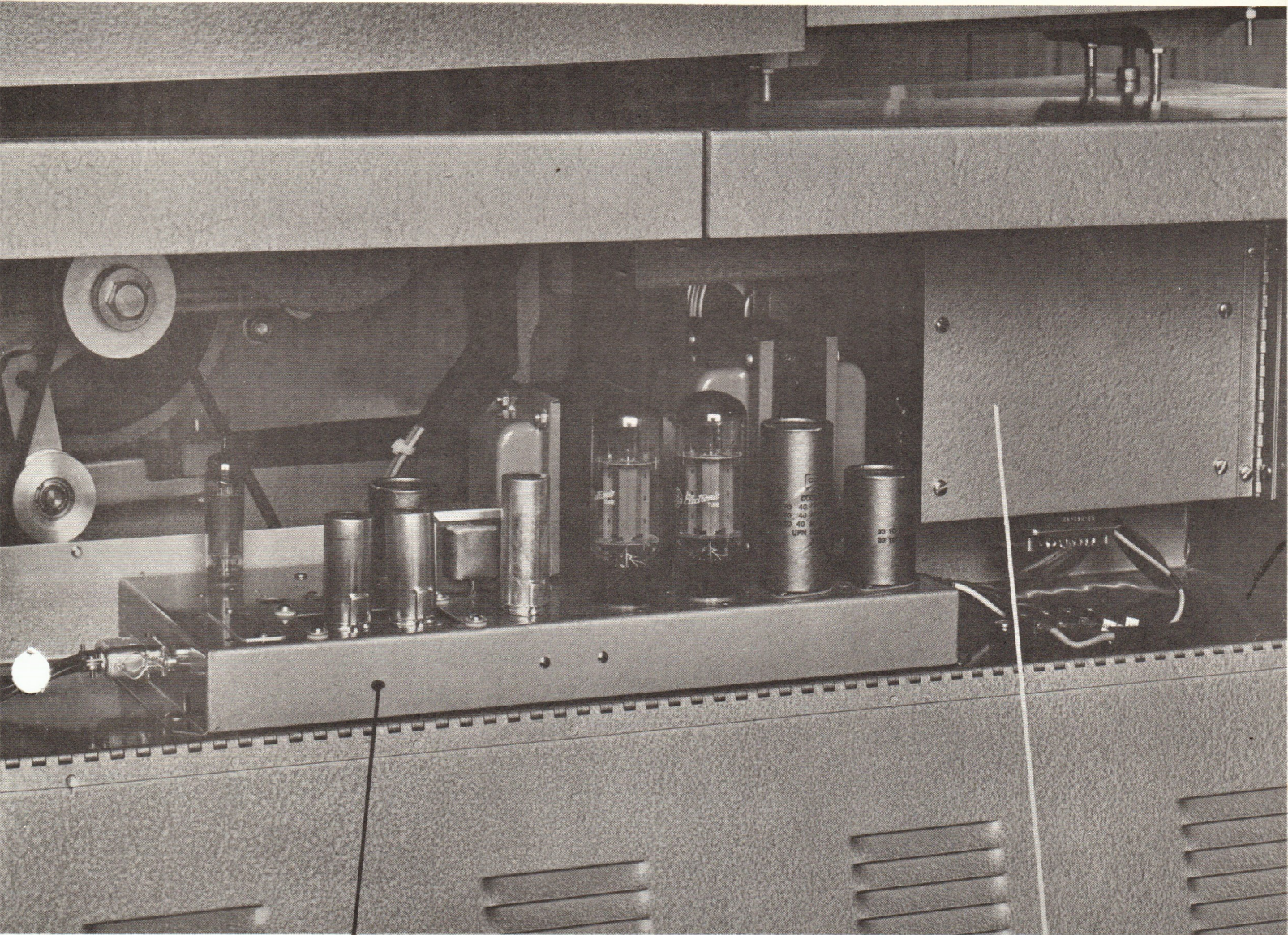
BEHIND PANEL (G)
REMOVABLE BY 3
SCREWS INDICATED BY
ARROWS, IS MASTER
AUTOMATION CHASSIS
LOWER TAKEUP AND ANY
MANUFACTURERS POWER
SUPPLY EXCEPT 4000
OR 6000. SEE FIGURE 5

TOP COVER (C) IS
LIFTED OFF FOR EASY
ACCESS.

**SLAVE CONTAINS SPARE AMPLIFIER-EXCITER LAMP
SUPPLY- SLAVE AUTOMATION-TAKEUP-AND XENON POWER
SUPPLY OF ANY MANUFACTURER. SEE FIGURE 11-12-13 PAGE 9-10**

FIGURE 3

UPPER SECTION OF MASTER PEDESTAL CABINET



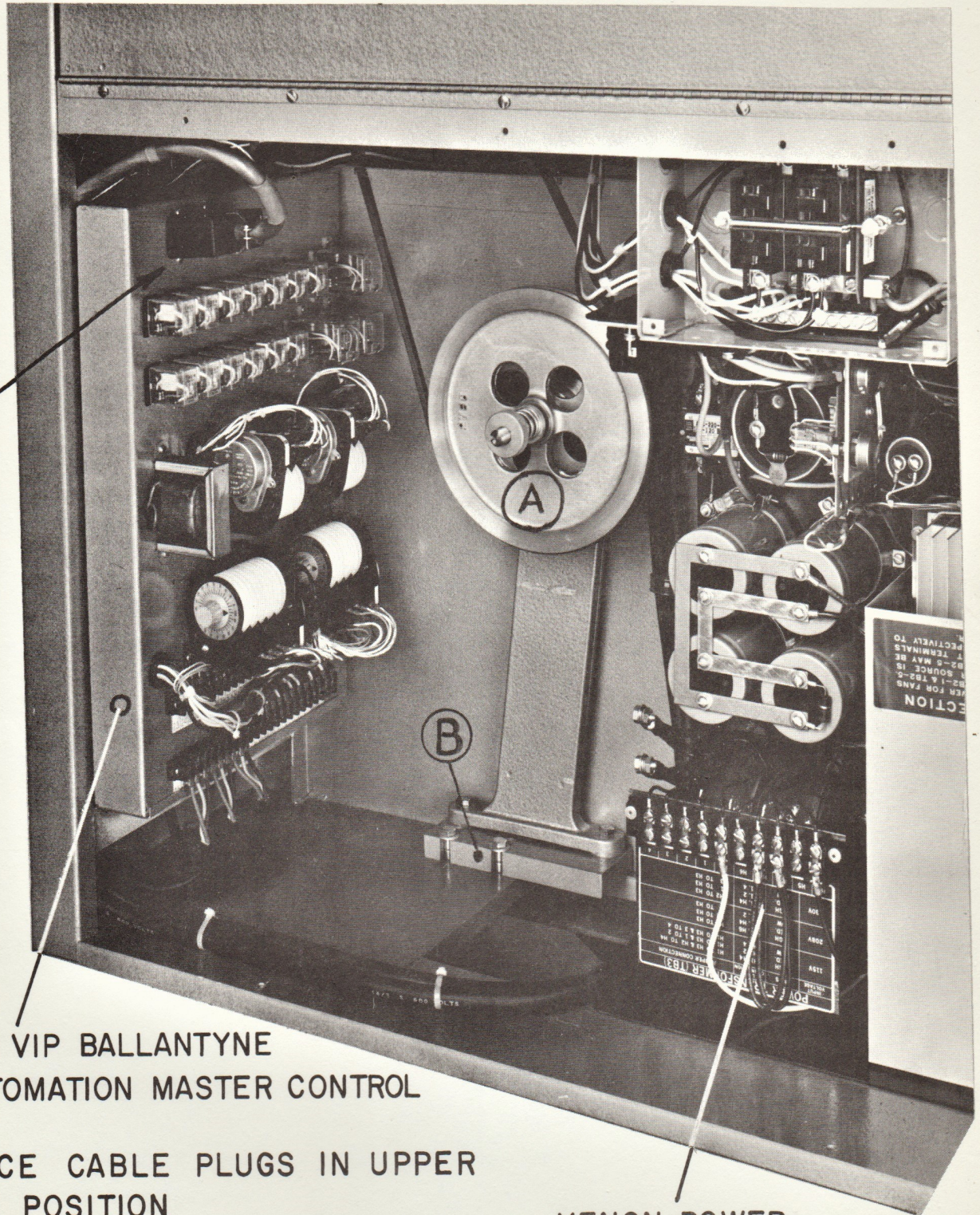
VIP POWER AMPLIFIER

THIS IS BASICALLY THE SAME AMPLIFIER MANUFACTURED FOR SEVERAL YEARS AND DISTRIBUTED AS BALLANTYNE 25-1-2 AMPLIFICATION. A SECTION HAS BEEN ADDED IN THE VIP INCORPORATING A MONITOR AMPLIFIER. MONITOR VOLUME CONTROL IS NEAR THE MONITOR SPEAKER ON FILM SIDE.

DUAL CHANGE-OVER POWER SUPPLY

SEE PAGE 6 FOR
UNPACKING INSTRUCTIONS

LOWER SECTION OF MASTER PEDESTAL CABINET



THE VIP BALLANTYNE
AUTOMATION MASTER CONTROL

INTERLACE CABLE PLUGS IN UPPER
OUTSIDE POSITION

XENON POWER
SUPPLY, ANCHORED TO
FILM SIDE OF CABINET

(A) LOWER TAKEUP

**(B) LOWER SPINDLE
ALIGNMENT BRACKET**

LOWER TAKEUP BELT IS ADJUSTED TO JUST BARELY SNUG. TAKEUP
TENSION IS 350 GRAMS ON A 2000' 15" REEL, 5" HUB.

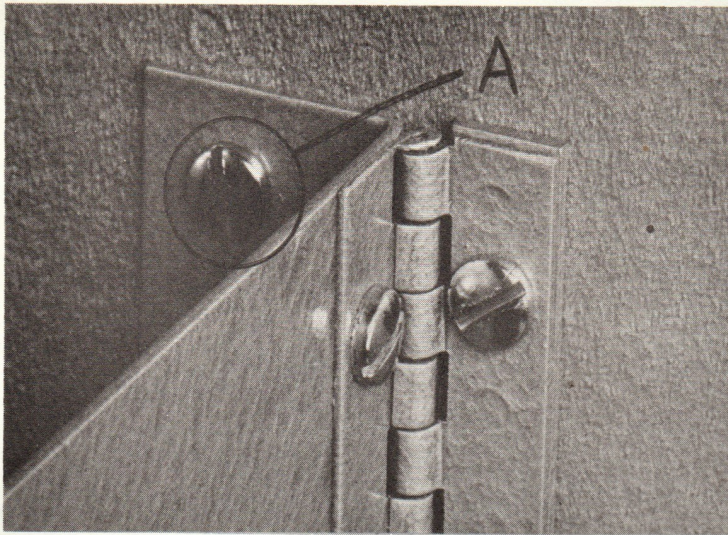


FIGURE 6

CHANGE-OVER SOLENOID POWER SUPPLY

LOCATED NEXT TO AMPLIFIER
IN THE MASTER. (SEE FIG. 4)
THIS UNIT IS HINGED SO THAT IT
CAN BE SWUNG OUT FOR SERVICE.
ALSO, WHEN POWER SUPPLY IS
IN "OPEN" POSITION, PEDESTAL
TILTING LOCK BOLTS ARE
ACCESSIBLE.

FOR SHIPPING
PURPOSES, THE
HINGED GATE IS
ANCHORED BY A
SET SCREW.

SEE (A) FIGURE 6
REMOVE THIS
SCREW ON
INSTALLATION

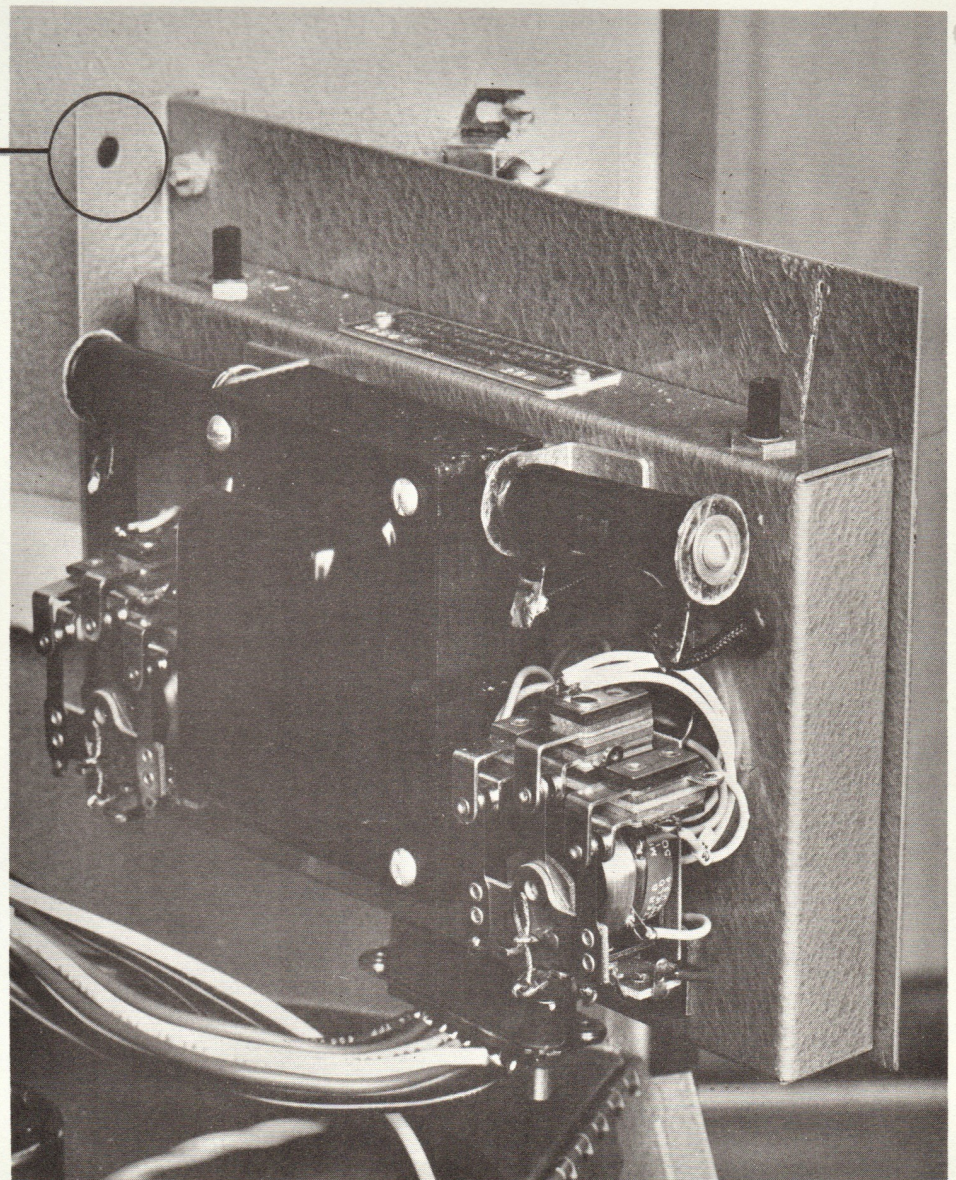
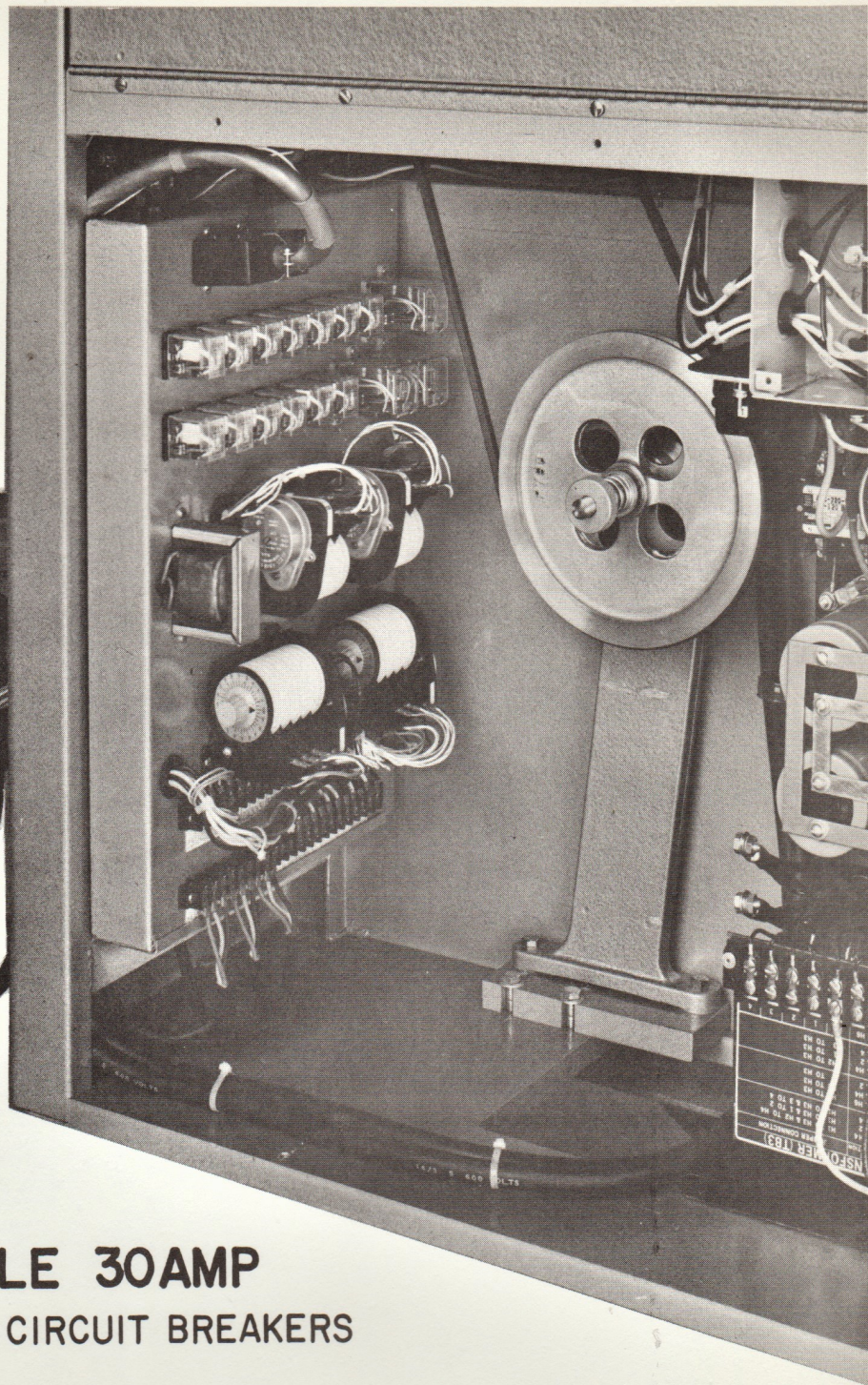


FIGURE 7

MASTER PLUG-IN



INTERLACE
CABLES, PLUG
INTO PROJECTOR

LEFT TO RIGHT

110V 1 PHASE 60 CYCLE 30AMP

(1 CIRCUIT FEEDS BOTH CIRCUIT BREAKERS
IN SYSTEM)

220V 1 PHASE 60CYCLE 20 TO 30 AMP

DEPENDING SIZE OF XENON. FUSED IN DISTRIBUTION PANEL

CURTAIN CONTROL, LOW VOLTAGE

MASKING CONTROL, LOW VOLTAGE

DIMMER CONTROL, LOW VOLTAGE

SPEAKER RUN

MASTER



**MASTER CONTROL
PANEL**

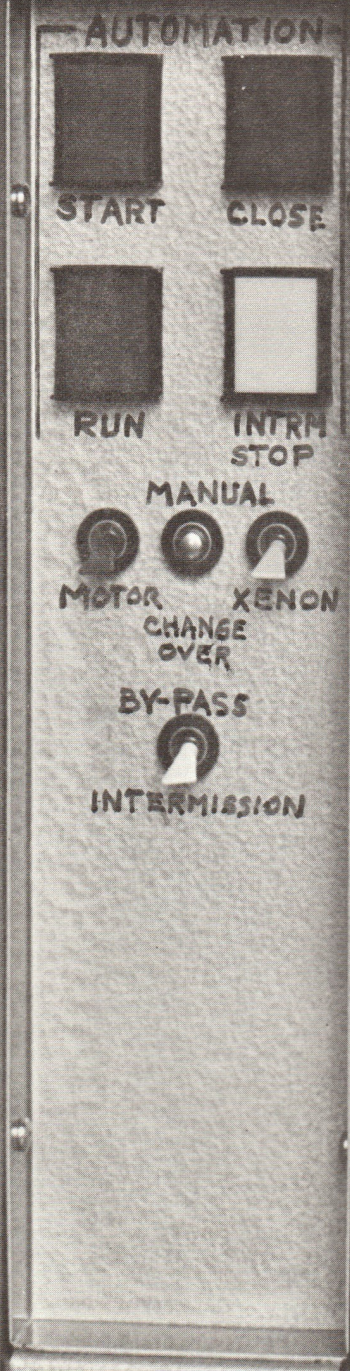
**MONITOR WITH
VOLUME CONTROL**

**MASTER VOLUME
CONTROL**

INTRM = INTERMISSION

FIGURE 9

SLAVE



SLAVE CONTROL PANEL

THE SLAVE PEDESTAL CABINET IS MANUFACTURED IDENTICAL TO THE MASTER. ONLY A FEW PARTS ARE DIFFERENT SO THE MANUFACTURER PLUGS A FEW HOLES WITH SNAP COVERS. SINCE POWER SUPPLY FOR CHANGE-OVER SOLENOIDS IS IN MASTER CABINET, THE D.C. EXCITER LAMP SUPPLY IS MOUNTED IN THE SLAVE. SEE PAGE 10.

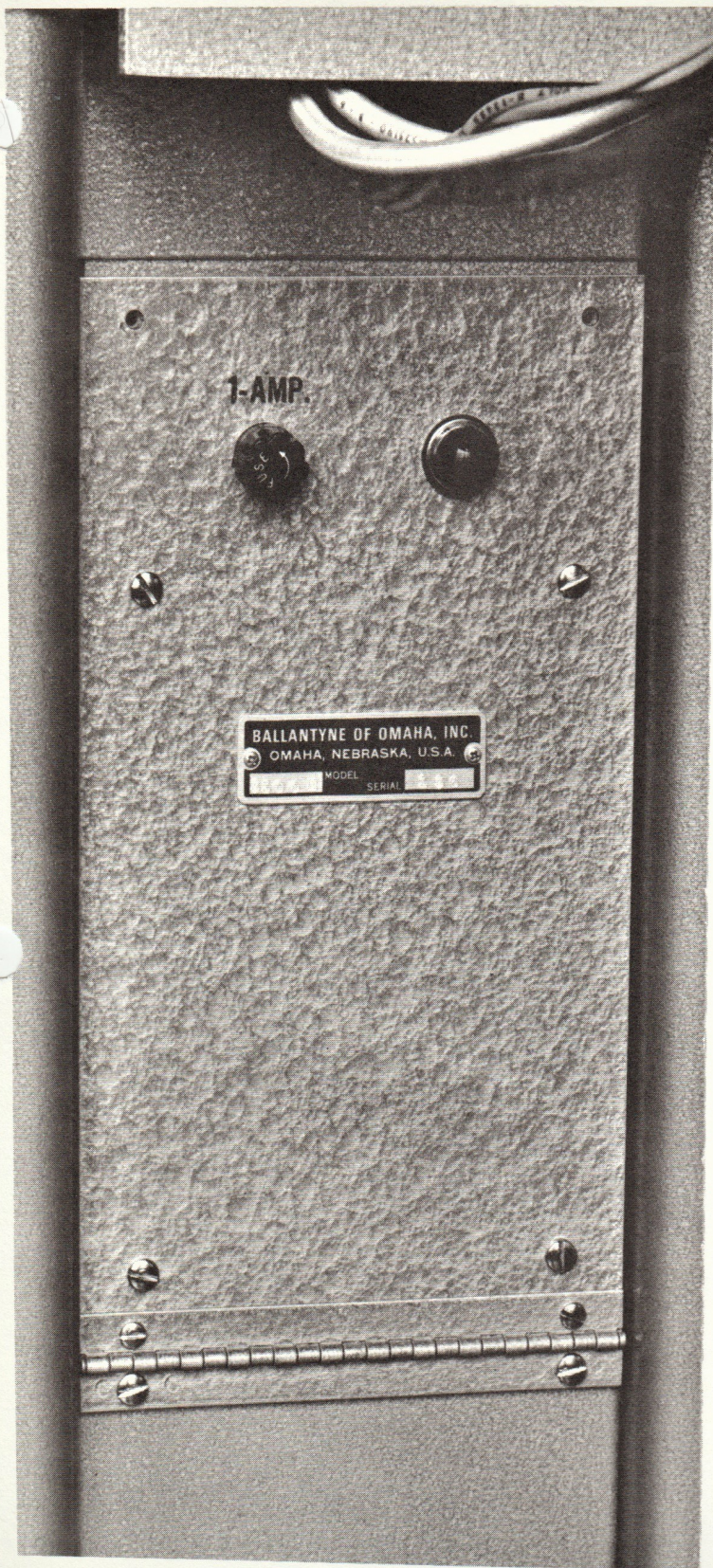


FIGURE 11

THE D.C. SUPPLY IS EASILY ACCESSIBLE BY MERELY OPENING. IT CAN BE UNPLUGGED (A) FOR IMMEDIATE REPLACEMENT.

MOUNTED NEAR THE TOP AT REAR OF THE SLAVE IS THE
 ← **D.C. EXCITER SUPPLY**

IT IS HELD CLOSED BY ITS WEIGHT. A PILOT LAMP INDICATES OFF-ON. IT IS FUSED AS SHOWN WITH A 1 AMP 3AG LITTLE FUSE

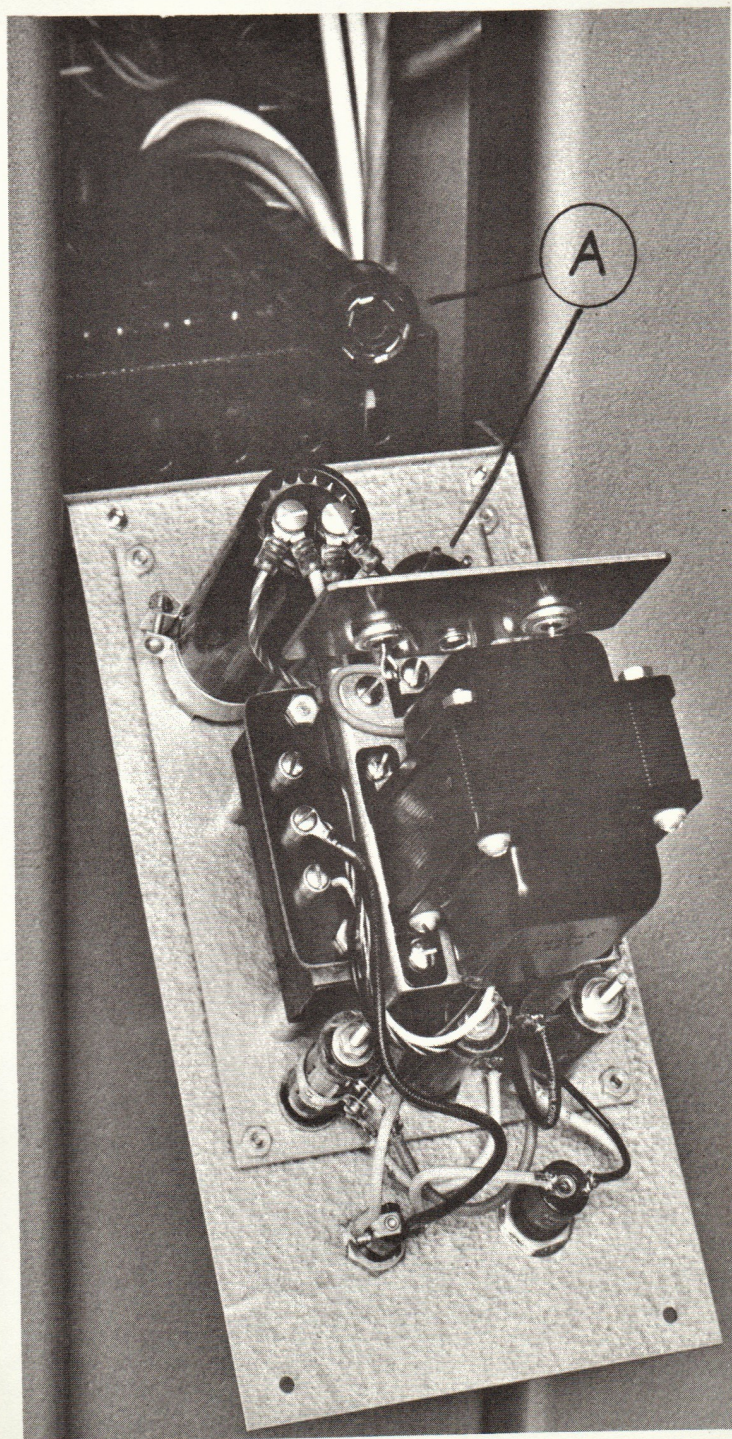
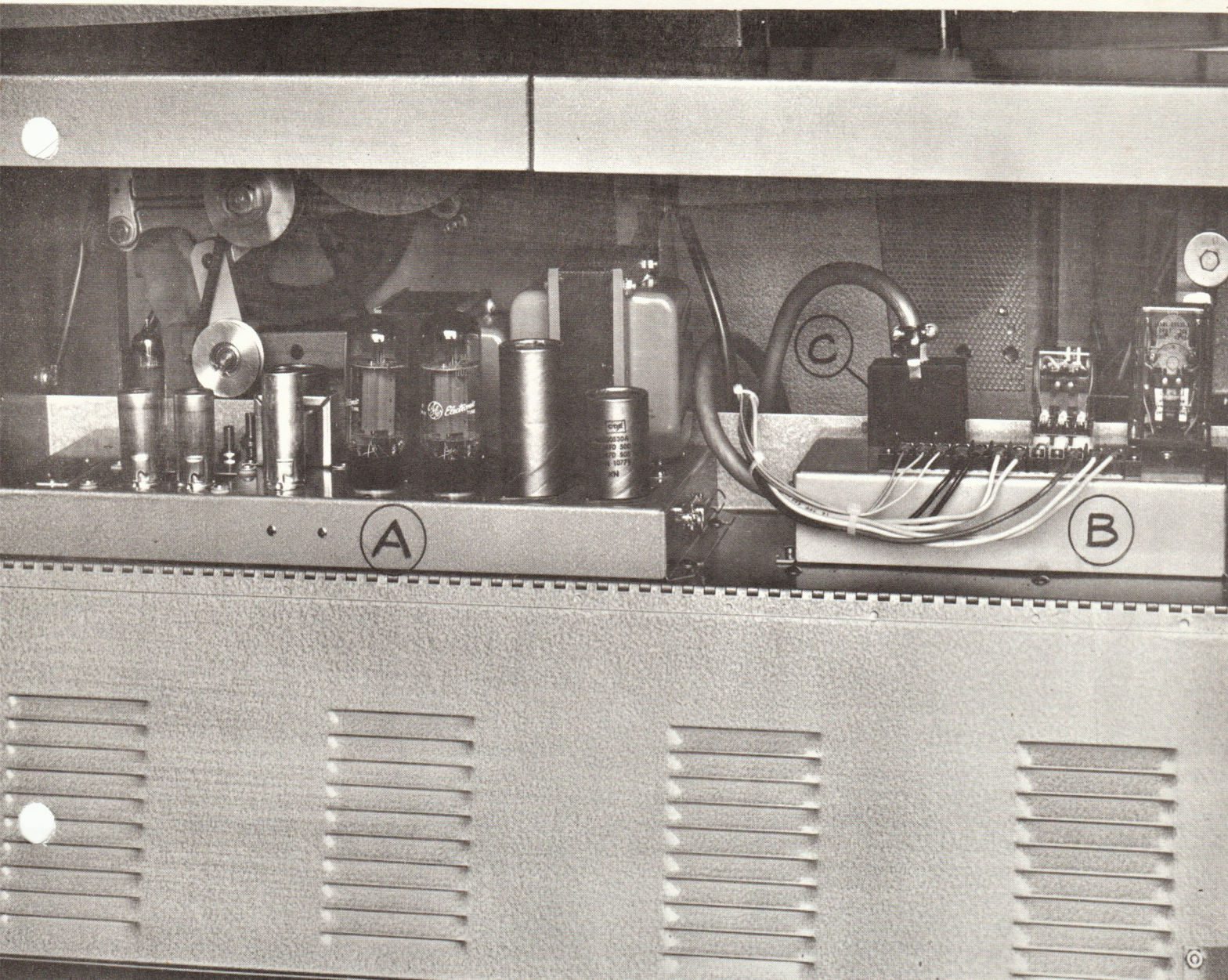


FIGURE 12



NON-OPERATING SIDE OF SLAVE

Ⓐ SPARE POWER AMPLIFIER

SPARE AMPLIFIER IS LOCATED IN SLAVE SYSTEM .
THIS IS PLUG-IN TYPE SO REPLACEMENT IS ONLY
A MATTER OF SECONDS DURING EMERGENCY.

Ⓑ SLAVE AUTOMATION SYSTEM

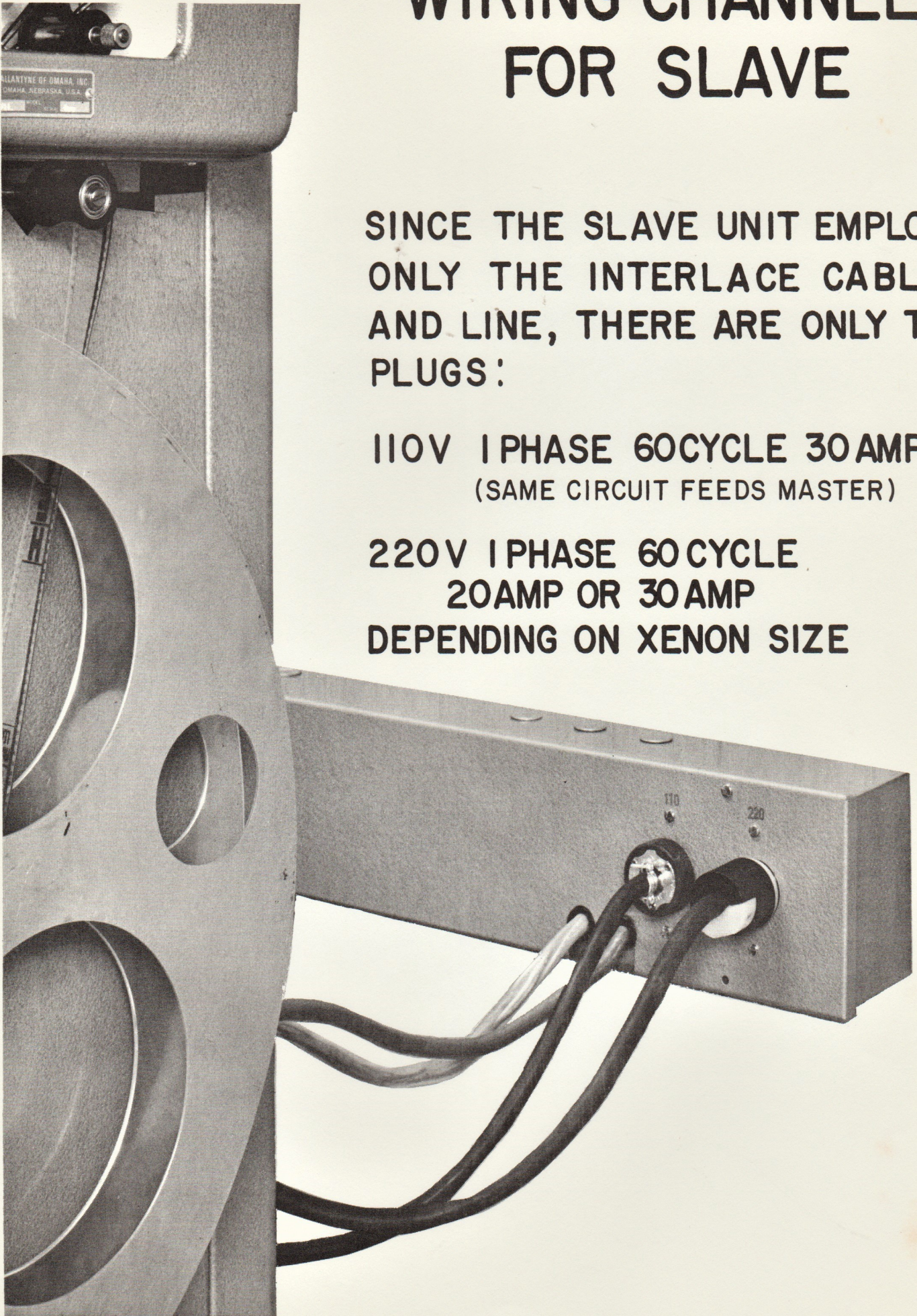
SINCE CURTAIN, MASKING , DIMMER & CLOSE SHOW
AUTOMATION IS ON MASTER UNIT, THE SLAVE MUST
HANDLE ONLY EXCITER LAMP AND MANUAL SWITCHES.
IT IS PLUG-IN Ⓒ FOR FAST SERVICE.

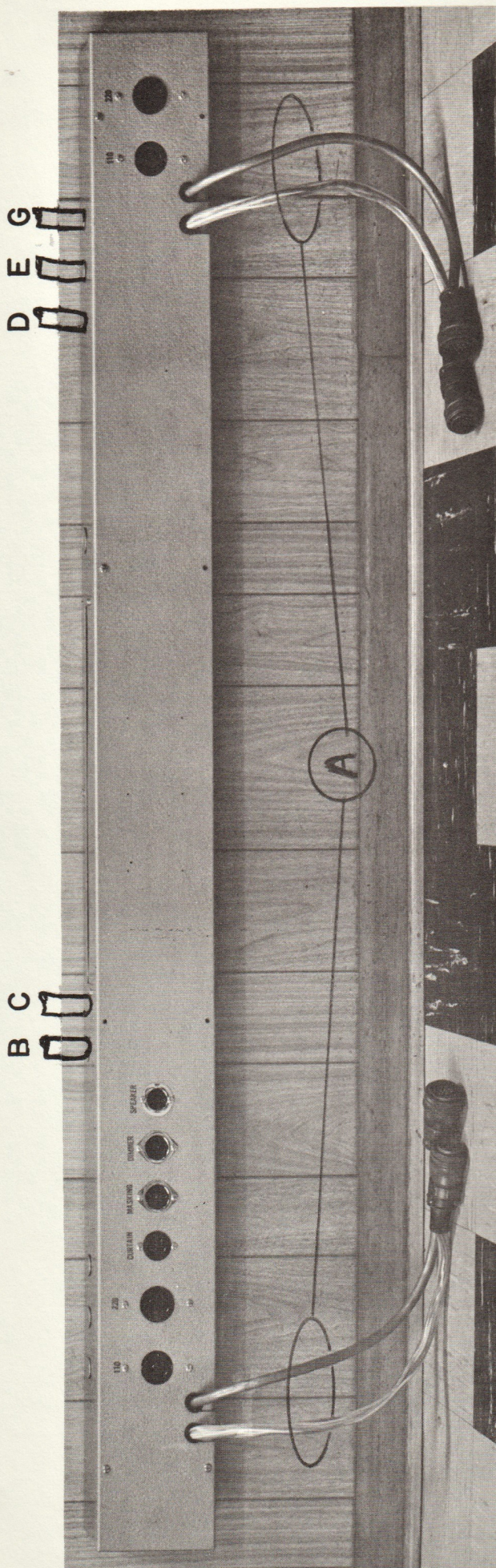
WIRING CHANNEL FOR SLAVE

SINCE THE SLAVE UNIT EMPLOYS
ONLY THE INTERLACE CABLES
AND LINE, THERE ARE ONLY TWO
PLUGS:

110V 1 PHASE 60 CYCLE 30 AMP
(SAME CIRCUIT FEEDS MASTER)

220V 1 PHASE 60 CYCLE
20 AMP OR 30 AMP
DEPENDING ON XENON SIZE





VIP WIRING CHANNEL 6"X6"X6'0"

INTERLACING CABLES ARE SHIPPED WITH THE VIP SYSTEMS (A)

BUT --- WIRING CHANNEL SHOULD BE ORDERED WELL ENOUGH IN ADVANCE FOR THE ELECTRICIAN TO INSTALL ON FRONT WALL AND RUN CONDUIT AND WIRE TO: MASKING - CURTAIN - DIMMER AND WATER PIPE GROUND

(B) 8 OR 12 AS NEEDED TO MASKING AND CURTAIN CONTROL

(C) 2 #12 TWISTED TO SPEAKER

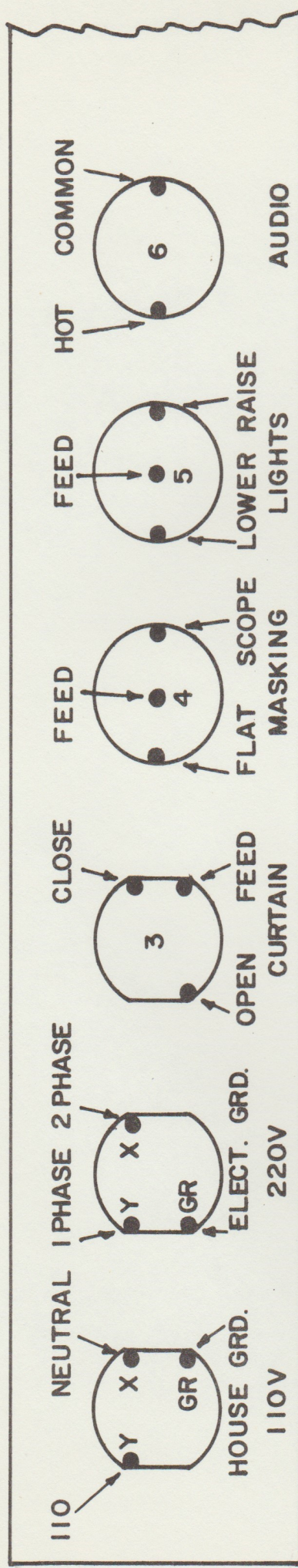
(D) 3 #16 DIMMER

(E) 2 #12 FOR 110V 1PHASE 60CYCLE TO DISTRIBUTION PANEL (1 CIRCUIT ONLY)

(G) 4 #8 FOR 220V 1PHASE 60CYCLE TO DISTRIBUTION PANEL (2 CIRCUITS-XENON)

GROUND - #8 BARE TO WATER PIPE NOT SHOWN

TERMINATE ALL WIRES IN CHANNEL $\pm 5'$



- 1 110VAC
- 2 220 VAC
- 3 CURTAIN
- 4 MASKING
- 5 LIGHTING
- 6 AUDIO

BALLANTYNE OF OMAHA, INC.

TELEPHONE 342-4444

1712 JACKSON STREET

OMAHA, NEBRASKA

SCALE

DATE

DRAWING NO.

DRAWN BY

REVISED

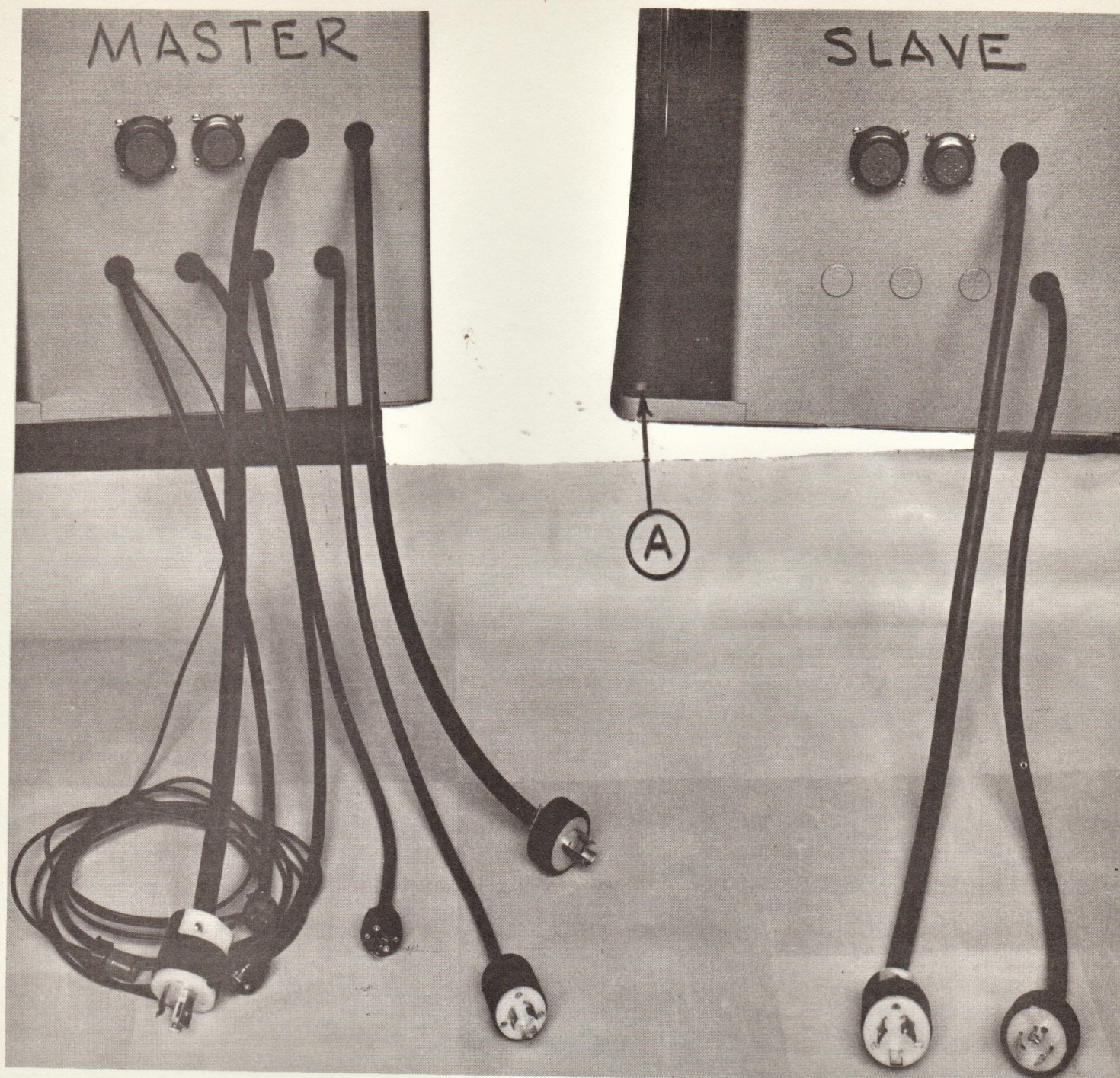


FIGURE 16

FRONT VIEW OF VIP MASTER - SLAVE

THIS IS HOW THE FRONT OF THE VIP SYSTEM LOOKS ON ARRIVAL. IN ADDITION TO THE CORDS AND PLUGS, YOU RECEIVE 4 LEVELING BOLTS FOR EACH VIP. LEVELING BOLTS ARE MADE TO SCREW UP FROM THE BOTTOM. BOTTOM OF SCREW IS GROUND TO ACCEPT OPEN END WRENCH TO ADJUST. WE RECOMMEND A 4" JUNCTION BOX COVER BE PLACE UNDER EACH LEVELING SCREW PEDESTAL MUST BE A MINIMUM OF 1" ABOVE FLOOR FOR VENTILATION PURPOSES.

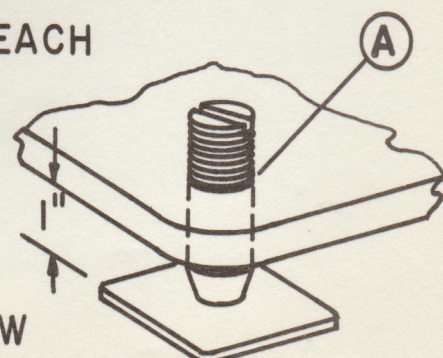
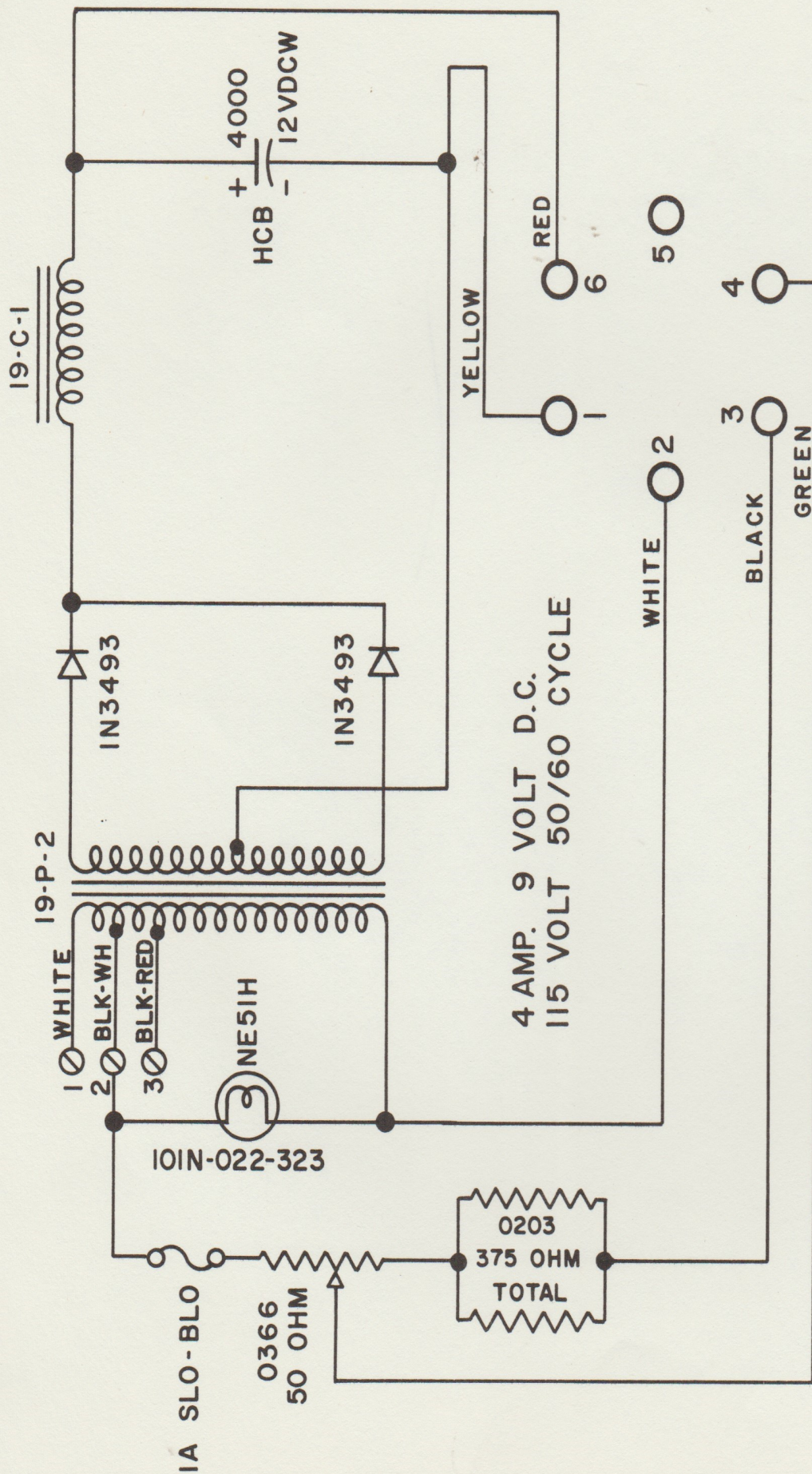


FIGURE 17



BALLANTYNE OF OMAHA, INC.

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1712 JACKSON STREET

OMAHA, NEBRASKA

3500-E WIRING DIAGRAM

SCALE

DRAWING NO.

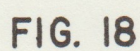
DRAWN BY L.W. POLSLEY

DATE 8/13/71

2912

REVISED

Diagram illustrating the projection adjustment mechanism. The mechanism consists of a vertical support structure with a horizontal arm. A pulley system is used to adjust the projection. The diagram shows the pulley and the adjustment screw. The text "DETAIL 'A'" points to the pulley assembly. The text "ADJUST TO REACH DESIRED ANGLE OF PROJECTION" indicates the purpose of the adjustment.



INSTALLATION INSTRUCTIONS FOR BALLANTYNE VIP SYSTEM

- ① ON ARRIVAL, HAVE MOVERS PLACE AT EACH PROJECTION PORT HOLE, MASTER LEFT, SLAVE RIGHT FIG. 1 PAGE 1.
- ② TILT PROJECTOR AND INSTALL LEVELING SCREWS FIG. 17 PAGE 14.
- ③ REMOVE COVER ③ FIG. 3 PAGE 3
- ④ REMOVE 3 SCREWS AND PANEL ⑥ FIG 3 PAGE 3
- ⑤ OPEN DOOR ⑤ FIG 3 PAGE 3
- ⑥ REMOVE SCREW ① FIG. 6 PAGE 6
- ⑦ CONNECT WIRES TO FEMALE PLUGS FIG. 15 PAGE 13
- ⑧ RUN BOTH INTERLACING CABLES ① THROUGH CHANNEL FIG. 15 PAGE 13 AND PLUG INTO PROJECTORS CABLES ARE IDENTICAL, EITHER END. YOU CANNOT CONNECT WRONG.
- ⑨ PLUG MASTER CABLE MALE PLUGS FIG. 8 PAGE 7 ALL ARE TWIST-LOCK — TURN CLOCKWISE AFTER PLUGGING
- ⑩ PLUG SLAVE CABLE MALE PLUGS FIG. 14 PAGE 12 - TWIST
- ⑪ IF ELECTRICIAN HAS CONNECTED WIRES TO CURTAIN, MASKING AND DIMMER, FINE! IF NOT, CONNECT THEM
- ⑫ CONNECT WIRES TO SPEAKER AND CHANNEL SPEAKER PLUG.
- ⑬ TURN ON POWER, PUSH MANUAL MOTOR, MANUAL XENON, PROJECTOR.
- ⑭ ALIGN ON SCREEN
- ⑮ FILE APERTURES
- ⑯ THREAD, PUSH START, CLOSE, RUN FIG. 9 PAGE 8 OR FIG. 10 PAGE 9 ON STARTING MACHINE.
- ⑰ WATCH THE SHOW!!!

