

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

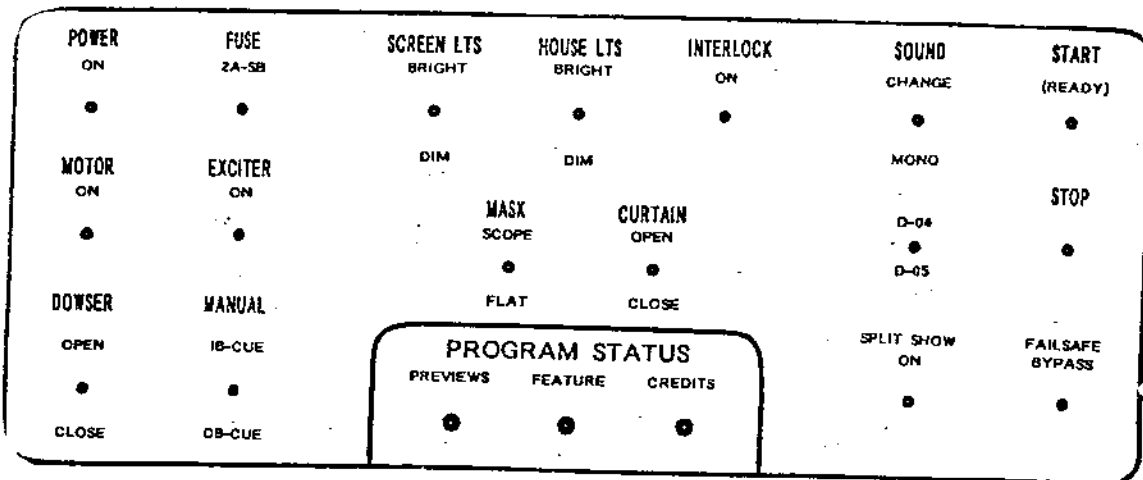
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EDLO INDUSTRIES



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PAC-2C AUTOMATION

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PAC-2 AUTOMATION SYSTEM

The EDLO PAC2C Automation system utilizes solid state timing to control virtually any function desired in modern projection booth. The basic system controls the following functions:

- A) Projector
- B) Lamp
- C) Changeover
- D) Exciter
- E) Non/Sync
- F) Houselight control, bright/dim
- G) Stagelight control, bright/dim
- H) Sound change, mono/stereo
- I) Early house light
- J) Split show
- K) Interlock

The basic system will cue to intermission in event of film break:

- A) House & Stage lights up
- B) Exciter off
- C) Motor/Lamp off
- D) Non/Sync on

The basic system is provided with proximity type sen/safe. A $\frac{1}{2}$ in. foil is placed on film from center of frame lineout to sprocket hole on inboard or outboard edge of film to cue functions.

Optional features may be added:

- A) Curtain
- B) Masking
- C) Lens turret
- D) Remote station

The PAC-2C is contained in a cabinet with swingdown door and swing open front panel. All relays and printed circuit boards are plug in type. Front panel contains switches for manual override of all house and booth functions. Lights give visual status of show (preview, feature, credits) and ready light indicates film is loaded and ready to **start**. Interlock is supplied as part of basic system when two or more automations are ordered.

PAC-2C CONTROL BOARD TIMING SETTINGS

Timer Board 301

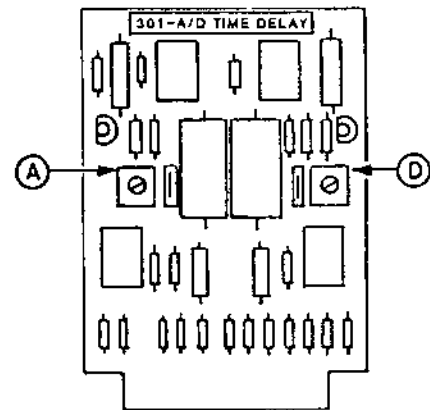
The 301 circuit board is standard on all PAC-2C automation units. This circuit board contains two adjustable timing circuits; one to control show start, and one to control show closing. These timers are adjustable from 2 seconds to 15 seconds, and both are factory pre-set to approximately 7 seconds.

Start of Show Timer "A"

This timer is located on the left hand side of the 301 circuit board, component side, as viewed with the circuit tracks pointing down. This timer is used to time the delay between pressing the START switch and actuating the sound/picture changeover projecting the presentation on screen. Turning this potentiometer clockwise lengthens the delay.

End of Show Timer "D"

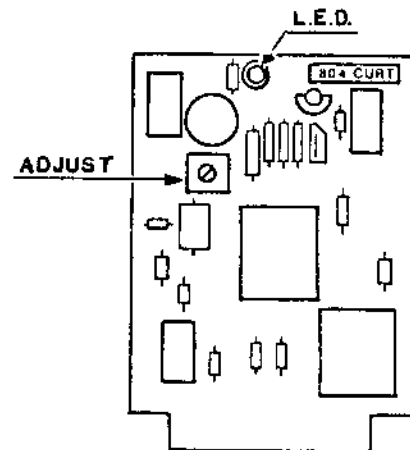
This timer is located on the right hand side of the 301 circuit board, component side, as viewed with the circuit tracks pointed down. This timer is used to set the delay from sensing the "End of Show" inboard cue until the sound/picture changeover, removing the picture from the screen and switching the non-sync sound on. Turning this potentiometer clockwise lengthens the delay.



804 Curtain Module Timer (Optional CM Module Required)

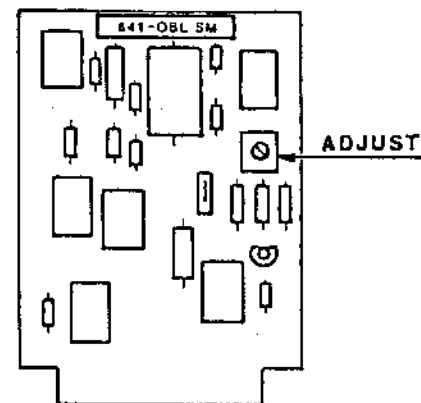
The optional 804 Curtain Module contains one timer circuit. This circuit is used for the "Curtain Call" feature and other subsequent program features required after the first outboard cue is detected, such as STEREO CHANGE or FORMAT CHANGE. When "Curtain Call" is programmed, all additional programmed functions will not occur until the timer on the 804 board times out. This time is adjustable (two to thirty seconds), and a L.E.D. indicator on the board lights when the timer is on. This timer allows the curtains to fully close when "Curtain Call" is programmed, and after the timer times out, any subsequent functions will execute and the curtains will re-open. Turning this potentiometer clockwise increases the length of time required for full curtain closure.

NOTE: ADC Curtain Controllers require two seconds after stopping before they can move the curtains again. Allow for this additional time when setting the 804 timer.



841 Outboard Logic Timer

This circuit board contains one timer which is used in conjunction with the optional FM Format Module. The purpose of this timer is to set the length of time required to complete a lens/aperture change before the picture changeover re-opens. The picture changeover closes at the start of a format change, and re-opens when the timer on this board times out. Turning this potentiometer clockwise increases the length of time the changeover remains closed during the format change.



INTERLOCK (SYNCHRONOUS) OPERATION

THE PAC-2C AUTOMATION SYSTEM is designed for multiple system interlocking, meaning a pre-determined number of machines can run the same print simultaneously, provided that each machine contains the IM Interlock Module, and is equipped with a synchronous drive motor. With the IM module installed and interconnected, the interlocked machines will operate in a synchronous mode by pressing the SYNC switch at each unit.

THE INTERLOCK WIRING is unique in that only three wires are required between interlocked units. It is advisable to install these wires in new installations whether or not interlocking is anticipated. As auditorium seating requirements change for film booking minimums, seating capacities can be increased by adding only IM modules and wall rollers.

Interlock Operation Sequence

- a) Splice sufficient leader onto the head of the feature to allow threading all of those machines to be interlocked.
- b) Place an inboard cue on the leader **behind** the failsafe on the starting (No. 1) machine.
- c) Energize the SYNC switch on those units to be operated synchronously
- d) Press the START switch on the first (No. 1) machine.
 - All machines will start
 - "Show Start" timer on No. 1 machine starts
- e) When subsequent machines sense the inboard cue (Step b), their individual "Show Start" timers will start.

In event of film break ALL machines in all booths will shut down.

LOGIC CHART No. 1

Configuration:

- PAC-2C without DM1 series dimmer
- No options
- No "Intermission Stop" programmed

1. Press START Switch
 - a) Projector ON
 - b) Lamphouse IGNITE
 - c) Lights DIM pulse
 - d) "Start of Show" Timer ON

2. After (7) Seconds
 - a) Picture Changeover OPEN
 - b) Exciter Lamp ON
 - c) Non-Sync Sound OFF
 - d) "Start of Show" Timer OFF

3. Outboard Cue
 - a) Switch to STEREO (if programmed)

4. Inboard Cue
 - a) Lights UP pulse
 - b) "End of Show" Timer ON

5. After (7) Seconds
 - a) Picture Changeover CLOSE
 - b) Exciter Lamp OFF
 - c) Non-Sync Sound ON
 - d) "End of Show" Timer OFF

6. Film Run-Out
 - a) Lamphouse OFF
 - b) Projector OFF

LOGIC CHART No. 1-A

Configuration

- PAC-2C without DM1 series dimmer
- No options
- "Intermission Stop" programmed

1. Press START Switch
 - a) Projector ON
 - b) Lamphouse IGNITE
 - c) Lights DIM pulse
 - d) "Start of Show" Timer ON

2. After (7) Seconds
 - a) Picture Changeover OPEN
 - b) Exciter Lamp ON
 - c) Non-Sync Sound OFF
 - d) "Start of Show" Timer OFF

3. Outboard Cue
 - a) Switch to STEREO (if programmed)

4. Inboard Cue
 - a) Lights UP pulse
 - b) "End of Show" Timer ON

5. After (7) Seconds
 - a) Picture Changeover CLOSE
 - b) Exciter Lamp OFF
 - c) Non-Sync Sound ON
 - d) "End of Show" Timer OFF
 - e) Lamphouse OFF
 - f) Projector OFF

To resume performance, press START switch.

LOGIC CHART No. 2

Configuration:

- PAC-2C with DM-2 dimmer
- No options
- No "Intermission Stop" programmed

1. Press START Switch
 - a) Projector ON
 - b) Lamphouse IGNITE
 - c) Lights HALF LEVEL
 - d) "Start of Show" Timer ON
2. After (7) Seconds
 - a) Picture Changeover OPEN
 - b) Exciter Lamp ON
 - c) Non-Sync Sound OFF
 - d) "Start of Show" Timer OFF
3. First Outboard Cue
 - a) Switch to STEREO (if programmed)
 - b) Lights DIM
4. Second Outboard Cue
 - a) Lights HALF LEVEL
5. Inboard Cue
 - a) Lights BRIGHT
 - b) "End of Show" Timer ON
6. After (7) Seconds
 - a) Picture Changeover CLOSE
 - b) Exciter Lamp OFF
 - c) Non-Sync Sound ON
 - d) "End of Show" Timer OFF
7. Film Run-Out
 - a) Lamphouse OFF
 - b) Projector OFF

LOGIC CHART No. 3

Configuration:

- PAC-2C with DM-2 dimmer
- No options
- "Intermission Stop" programmed

1. Press START Switch
 - a) Projector ON
 - b) Lamphouse IGNITE
 - c) Lights HALF LEVEL
 - d) "Start of Show" Timer ON

2. After (7) Seconds
 - a) Picture Changeover OPEN
 - b) Exciter Lamp ON
 - c) Non-Sync Sound OFF
 - d) "Start of Show" Timer OFF

3. First Outboard Cue
 - a) Switch to STEREO (if programmed)
 - b) Lights DIM

4. Second Outboard Cue
 - a) Lights HALF LEVEL

5. Inboard Cue
 - a) Lights BRIGHT
 - b) "End of Show" Timer ON

6. After (7) Seconds
 - a) Picture Changeover CLOSE
 - b) Exciter Lamp OFF
 - c) Non-Sync Sound ON
 - d) "End of Show" Timer OFF
 - e) Lamphouse OFF
 - f) Projector OFF

LOGIC CHART No. 4

Configuration:

- PAC-2C without DM) " series dimmer
- With FM Format Module
- No "Intermission Stop" programmed

1. Press START Switch
 - a) Projector ON
 - b) Lamphouse IGNITE
 - c) Lights DIM **pulse**
 - d) "Start of Show" Timer ON
2. After (7) Seconds
 - a) Picture Changeover OPEN
 - b) Exciter Lamp ON
 - c) Non-Sync Sound OFF
 - d) "Start of Show" Timer OFF
3. Outboard Cue
 - a) Lens Turret & Masking Change (if programmed)
 - b) "End of Show" Timer ON
4. Inboard Cue
 - a) Lights UP **pulse**
 - b) "End of Show" Timer OFF
5. After (7) Seconds
 - a) Picture Changeover CLOSE
 - b) Exciter Lamp OFF
 - c) Non-Sync Sound ON
 - d) "End of Show" Timer OFF
 - e) Lens Turret & Masking Change to START position (if programmed)
6. Film Run-Out
 - a) Lamphouse OFF
 - b) Projector OFF

LOGIC CHART No. 5

Configuration:

- PAC-2C with DM-2 dimmer
- Curtain board
- "Intermission Stop" programmed

1. Press START Switch
 - a) Projector ON
 - b) Lamphouse IGNITE
 - c) Lights: Stage DIM, House HALF LEVEL
 - d) "Start of Show" Timer ON

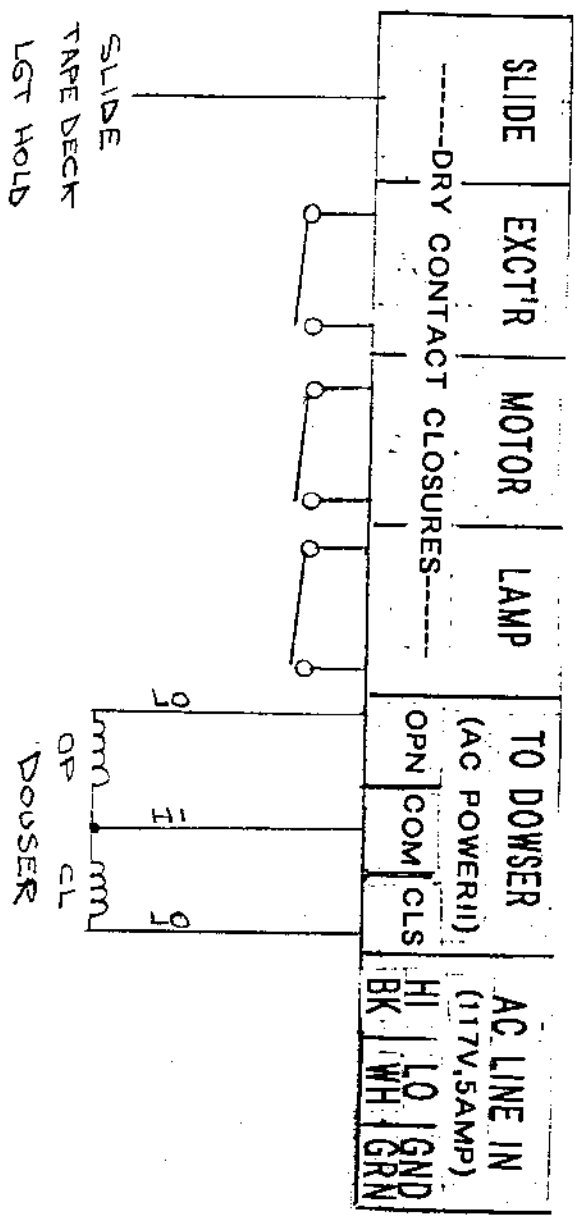
2. After (7) Seconds
 - a) Picture Changeover OPEN
 - b) Exciter Lamp ON
 - c) Non-Sync Sound OFF
 - d) "Start of Show" Timer OFF
 - e) Curtain open

3. First Outboard Cue
 - a) Switch to STEREO (if programmed)
 - b) Lights: House DIM

4. Second Outboard Cue
 - a) Lights: House HALF LEVEL

5. Inboard Cue
 - a) Lights: House BRIGHT, Stage BRIGHT
 - b) "End of Show" Timer ON
 - c) Curtain closed

6. After (7) Seconds
 - a) Picture Changeover CLOSE
 - b) Exciter Lamp OFF
 - c) Non-Sync Sound ON
 - d) "End of Show" Timer OFF
 - e) Lamphouse OFF
 - f) Projector OFF



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T.S. CONN		
DATE	DRAWN BY	DWG. NO.
12/29/52		

ALARM	
CANCEL	
START	
STOP	
PRE	
FEAT	
CRED	
(+)24VLT'S	
(-)24VLT'S	
CUE COM	+24VDC
I.B.CUE	+ PULSE
O.B.CUE	+ PULSE
READY	+24V FILM
LOAD	+24V NO FILM

REMOTE

SEN /SAFE

REMOTE

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TS CONN		
DATE	DRAWN BY	DWG. NO.
3/20/96		

LTS COM
STG DWN
STG UP
HSE DWN
HSE UP
INT COM
I-START
I-STOP
SND COM
MONO
STEREO
DLBY-SR
NON SYNC
MUTE

COM

STAGE

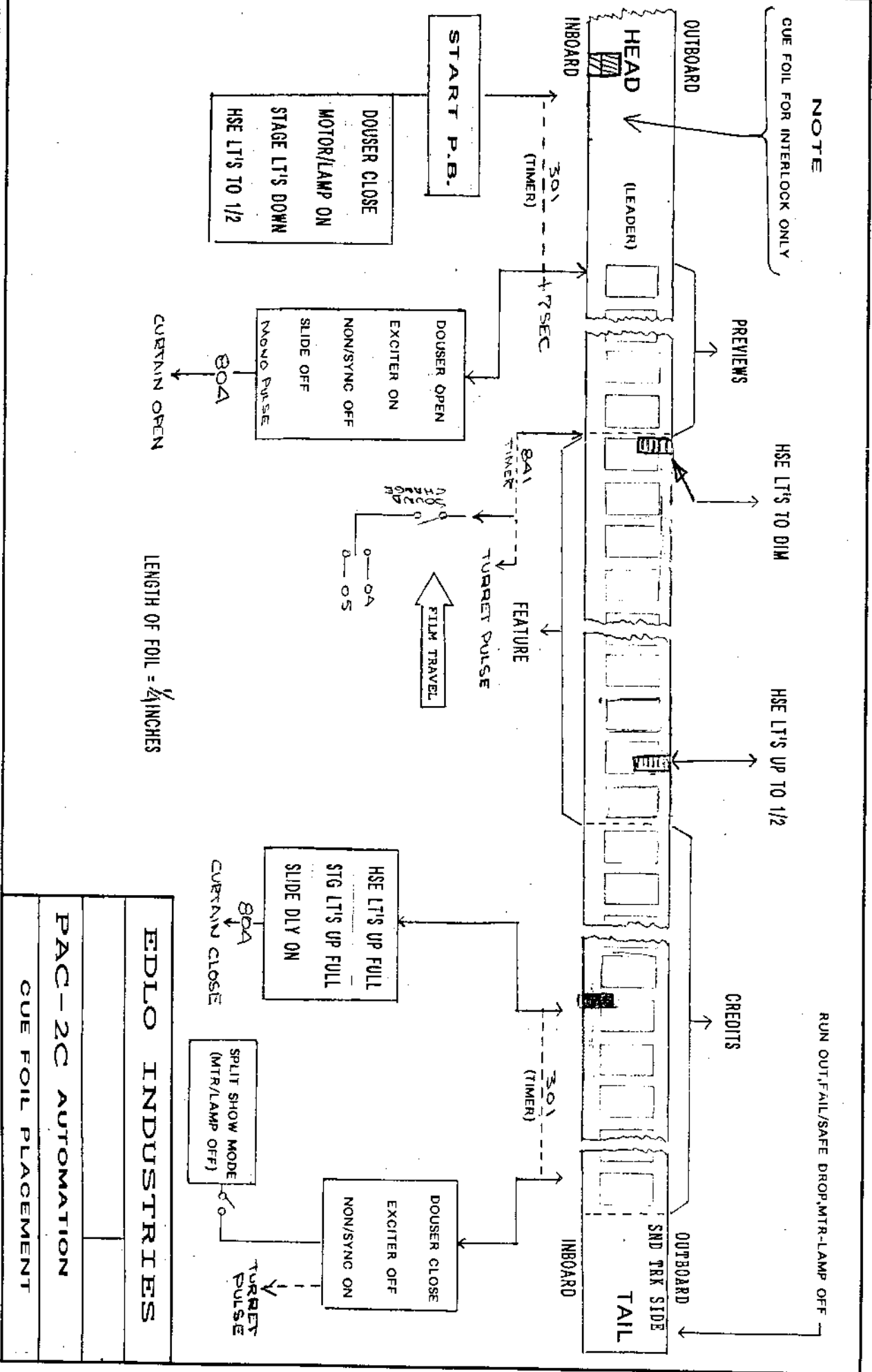
HOUSE

DIMMER

INTERLOCK

SOUND

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TS CONN		
DATE	DRAWN BY	DWG. NO.
12/30/92		



NOTE

GUE FOIL FOR INTERLOCK ONLY

HSE LT'S TO DIM

HSE LT'S UP TO 1/2

RUN OUT, FAIL/SAFE DROP, MTR-LAMP OFF

LENGTH OF FOIL = 1/4 INCHES

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PAC-2C AUTOMATION
CUE FOIL PLACEMENT