

OPERATING / SERVICE / PARTS MANUAL
SKILL CRANE
DOUBLE SKILL CRANE
TRIPLE SKILL CRANE

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Skill Crane	
Double Skill Crane	
Triple Skill Crane	

OPERATING INSTRUCTIONS

ADDENDUM

Features:

The ETI microprocessor controlled Super Crane board offers many added features to the Super Crane, among which are skill control of the crane, and sound. Through switch selection, six different combinations of games can be offered to the customer. These are explained in detail at the end of this document.

Some additional functions and features have been added for security of the device. These are monitoring of the coin-in switch for "stringing", and prize chute security to prevent an unauthorized intrusion, each of which will sound an alarm and light the award beacon.

During a power failure, the microprocessor will retain, in most cases, the credits remaining for up to one hour.

Optional enhancements include a Dollar Bill acceptor, 2nd Coin acceptor, Winner Light, Joy Stick control, and Tocket Dispenser. The system has been designed for additional inputs and outputs to adapt to future options and requirements.

Game Operation:

At the time a coin or coins are inserted, the forward light blinks, and the credit/timer displays the number of game credits accumulated. A maximum of 20 credits are allowed before the coin-lockout is activated.

The Game is initiated by pushing the forward or Lateral play buttons or if the optional joy stick is installed the "Drop claw" button (which is the button on top of the joy stick).

Standard Game:

This selection retains all the features of the original game with push-buttons and allows the operator to optionally run the game till the timer has expired. The beginning of the game starts when either the forward or right buttons are depressed.

At time the motor sound begins as well as the timer starts its countdown phase.

Crane movement can start by pressing either button.

When both buttons have been pressed the crane will lower and attempt to pick-up a prize and return to the home position automatically.

Joy Stick Control:

This option enhances the Super Crane by allowing the customer control over the movement of the crane. In this mode, the crane motors are slowed down to inhibit excessive swaying motion of the crane claw assembly. Four configurations are possible with this feature. One modes allows the customer to lower the crane once by pressing the top button on the joy stick, the seconde mode. allows the customer to lower the crane gradually while depressing the top button. Both modes can be operated either on a one time basis or until the timer expires.

In the joy stick mode of operation, the customer depresses the joy stick button to begin the game. There is a brief pause and the sound of Charge is played while the crane is positioned in the center of the play-field. The motor sound signifies the beginning of the timer countdown as well as the timer itself begins to count down the time remaining.

After an attempt at a prize pick-up the crane will return to the home position and open the claws, then depending on the second switch setting, the crane will continue till the timer expires or stop.

If the crane is at the home position when the timer expires the crane motion will not cycle otherwise the crane will attempt one more pick-up.

On power-up the crane will reset to the home position. If, on power-up the coin-in switch is held down, the crane will go into its test mode.

See TEST FEATURES for a complete description.

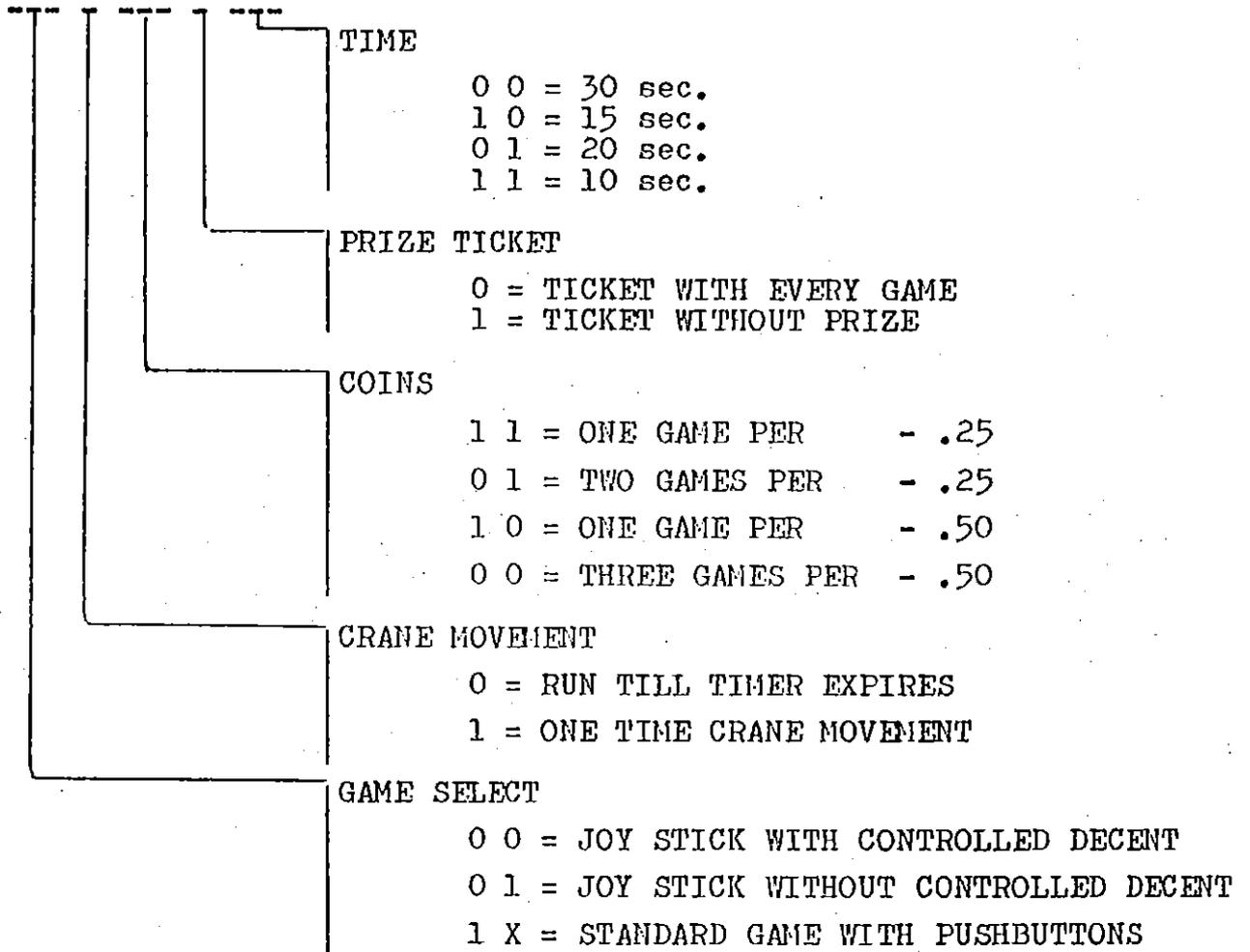
SWITCH CONFIGURATION

DIP SWITCH SETTINGS

0 = off. / open.
1 = on. / closed.

1 2 3 4 5 6 7 8

X X X X X X X X



TIME

Dip switch positions 7 and 8, control the amount of time that a single game lasts.

PRIZE TICKET

The prize ticket option allows the operator to select whether a ticket is dispensed every game or only when a prize is won.

COINS

Dip switch position 4 and 5, control the number of games per coin and denomination.

CRANE MOVEMENT

Dip switch position 3, controls whether the game continues to play until the timer has expired or ends with one pick-up attempt.

GAME SELECT

Dip switch position 1 and 2, selects the game configuration.

TEST FEATURES

Enter the test functions by powering up the Super Crane while holding down the coin-in switch.

The timer display will show an "88" to indicate the test mode is activated.

Advance through the test functions by pressing the button on top of the joy stick. At the end of the test functions the game will resume normal operation.

TEST FUNCTIONS

- 1.- Bulb Test: This test lights all the lamps in the crane that are under microprocessor control.
- 2.- Crane Movement 1: The joy stick will control the operation of the cranes left, right, forward, and backward motion.
- 3.- Crane Movement 2: The joy stick will control the operation of the cranes up and down motion.
- 4.- Claw Position: The joy stick will control the opening and closing of the claw mechanism.
- 5.- Ticket Dispenser: The joy stick will control the operation of the ticket dispenser.

DESCRIPTIONS OF MODIFICATIONS
SEGA CRANE MICRO-PROCESSOR CONTROLLER

This document directs the Technician through the necessary harness changes to convert the original relay logic controlled crane to the micro-processor system.

These changes are simple and will require only a soldering iron and some shrink tubing to implement. Note that the wire color codes are referred to in order to identify the particular wires involved in the conversion, along with this reference will also be the location of the wires so in the event that color codes have change the conversion can still be accomplished.

- 1.- First locate Car SW2, there should be located on the terminals nearest to the play field, (inside of crane glassed area), orange/black and orange/brown wires. These wires are to be removed and soldered together, insulated and tied back out of the way of operation. Again these wires may be of different color so refer to the position.
- 2.- Next Simply remove the diode, by cutting out, that is placed between Car SW1 and Car SW2. This diode is locate on the terminals between the to switches.
- 3.- From Car SW1 you will find two gray wires, these must be removed from the switch and soldered together, insulated and tied back of the way of operation.
- 4.- Now looking at the crane carriage assembly it selft you must locate Car SW3. On the upper right terminals remove the red and green wires, these will have to be soldered together, insulated and again tied back out of the way.
- 5.- In the same area on Car SW3 lower terminal you will remove the white and red wires from their terminals and solder theses together, insulate and tie back.
- 6.- Now there should be a black wire on Car SW3 that runs into the lead-in harness, pull a little of this so you can cut the wire at least 2" back from the SW3 terminal that it is connected to. When you have done this insulate the free end, coming from the harness. Prepare the opposite end of the wire, which is still connected to the witch, to be soldered to the terminal indicated in the next instruction. Remove the red wire that is connected to Car SW4 and solder to the upper right hand terminal of Car SW3, now take the prepared free end of the black wire and connect to the terminal that you have just removed the red wire from.
- 7.- The last modification is done in the area of the coin acceptor. Locate the white/brown wire that is in common with the coin lock out coil and denomination illumination lamp, cut this wire back approximately 6" toward the direction of the cabinet harness and insulate the end that comes from the cabinet direction.

Take the end coming from the coin lock out coil and prepare it to be soldered to another wire. This wire will be the one tied to the coin switch Normally Open terminal or wire coming from such terminal, you can strip a small amount of insulation from this wire connected to the coin switch terminal and solder the coin lock out wire to the area of bare wire and insulate.

This completes the conversion process other installation of the ETI Crane controller PCB, Speaker, and Power Harness.

Supplied with the conversion kit is the Main Controller PCB and other options you may have ordered, Credit Display, Joy Stick, etc...

First you will have to remove the old relay control board and replace this with the new controller board. Position the new board so that the connectors match that of the old PCB this should be the 12 pin connector up. Next connect the original plugs to their appropriate header. The next thing to do is to solder the power harness, the two wire harness with dropping resistor, to the main power transformer taps marked 0v. and 14v. this could be a parallel connection across the white/red and white/black going to the light controller PCB. This is a non polar connection and can be wired either way. The other end of this harness has a two pin plug that must be attached to the J5. This is the logic power input.

The next item to install is the speaker, this can be mounted anywhere inside the cabinet with grill to allow the sound to emanate towards the player. When you have accomplished this take the end of the speaker harness with the two pin plug and route to the PCB and connected to the J2 position.

If the credit display options is to be installed you will have to punch and appropriate hole in the play panel and mount the unit as described in the credit option literature. There will be with this unit a harness with suitable plugs for the display and controller PCB. Once you have the credit meter mounted and installed the plug can be installed in the J4 position on the Main Controller PCB.

If the Crane is to operate in the push button mode this will have accomplished the conversion and the crane can now be powered up and should operate in the same mode as the original crane, be sure to set the DIP-SW options as described in the options sections. One difference in operation in this mode is that the player can select to move the crane lateral or forward first instead of only forward first.

The joy stick installation is accomplished by removing the lateral button from the panel and mounting the Stick provided in this hole. You may have to remove some of the Playfield floor support bracket to allow this unit to clear it when the play panel is closed. Next the four connectors that once were wired to the lateral button are connected to the four Normally open connectors from the Sticks switches. These are the direction controls and once the crane is powered up these can be checked for the proper location relative to the direction of movement of the crane carriage.

Note that provided with the Joy Stick is a harness connecting all the Common Positions together and with a free end that is tinned and stripped.

This wire will have to be soldered to the lamp that is installed in what was the forward movement button position.

On this lamp you will find connected two white/black wires and soldered to the socket, here is where this common wire from the switches is to be connected. Here also you will remove the connectors from the Forward Switch and move these to the push button switch on the Joy Stick.

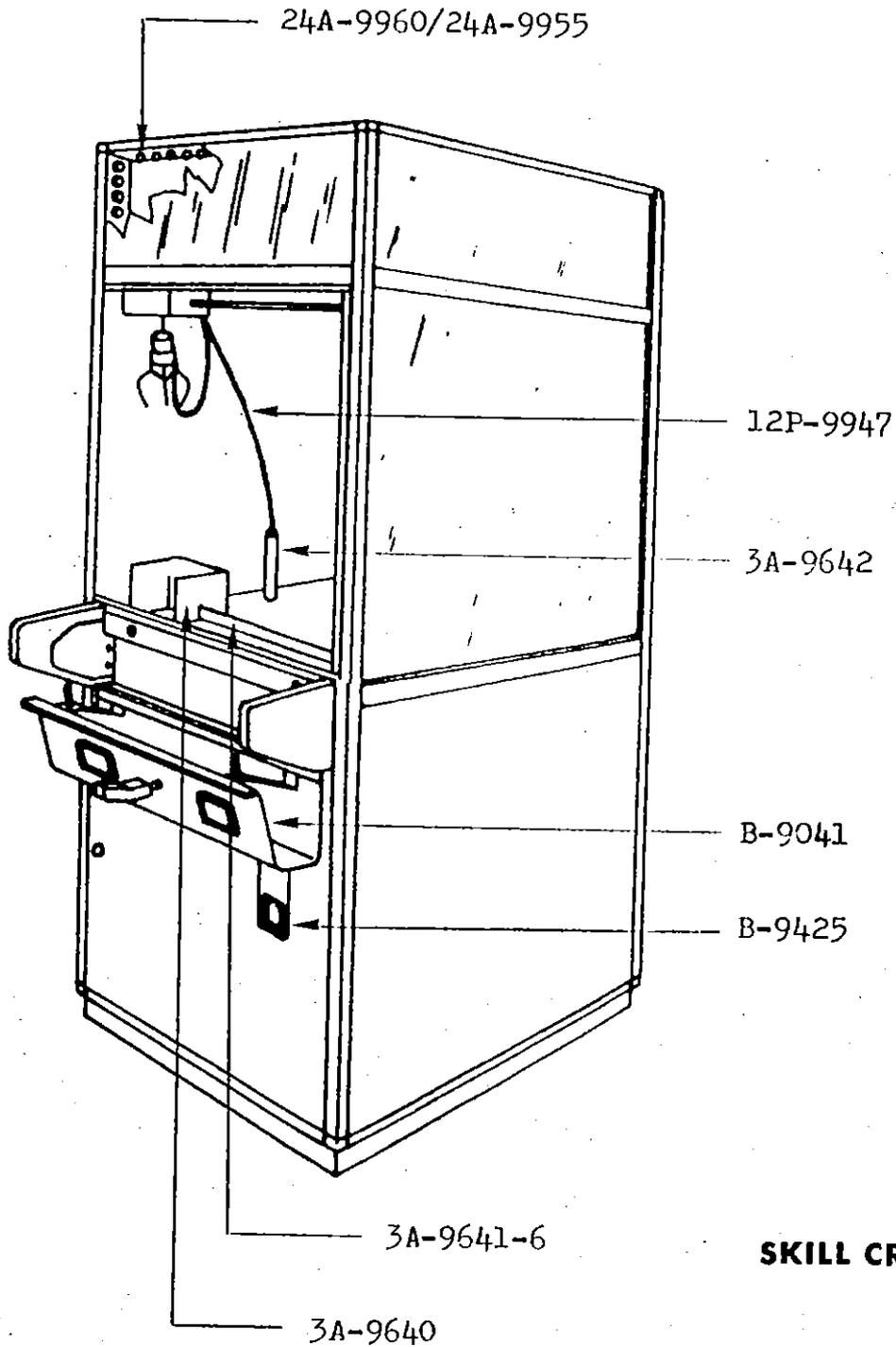
The white/black wire to the common and the other wire to the Normally Open point on the switch.

This white/black that was connected to the common of the forward switch can also be used for the other joystick switch common connections.

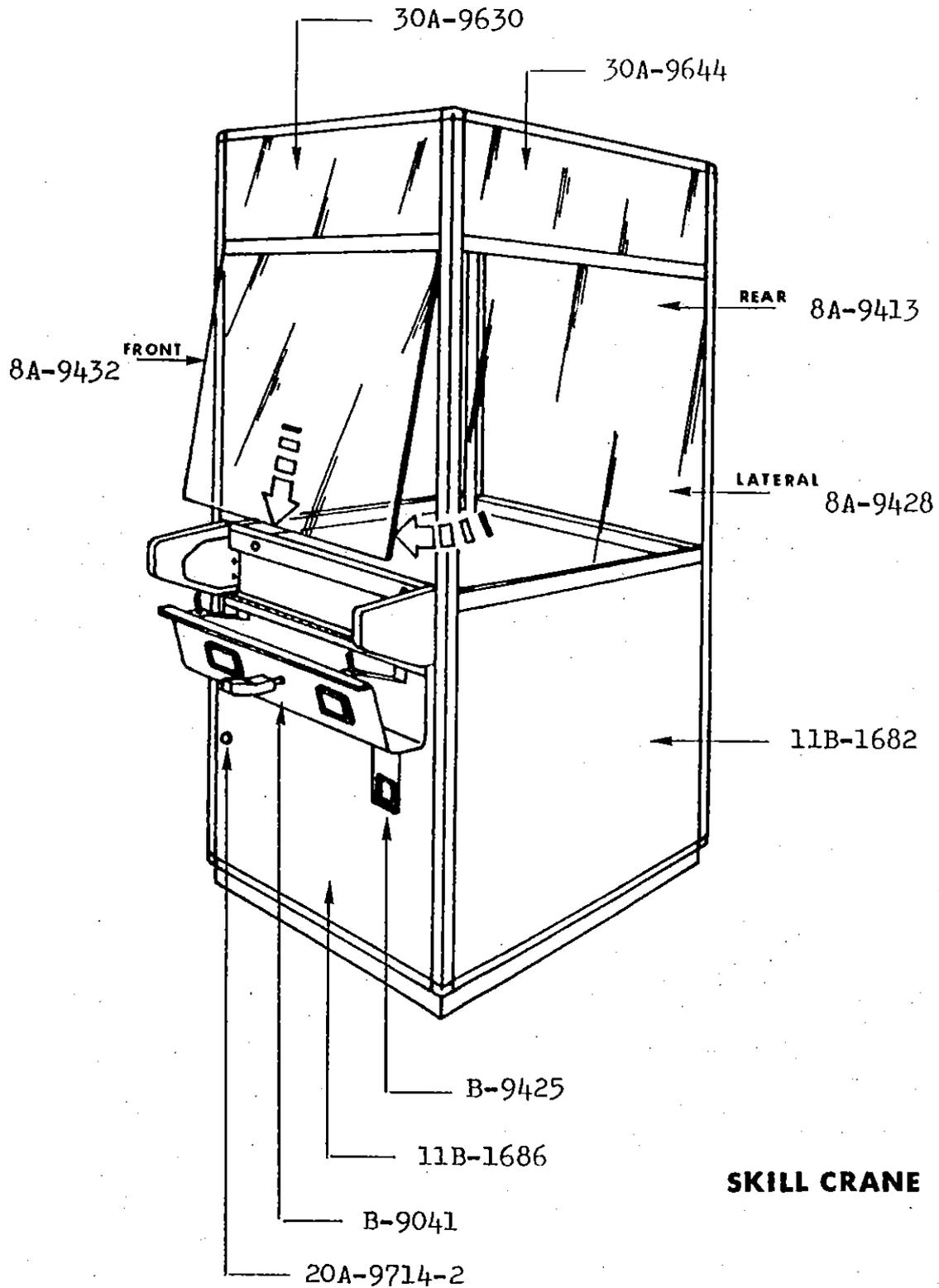
When This has been installed properly the crane can be power up and check for proper operation as described in the operation sections of this document.

NOTE: On the Main controller PCB there is a jumper position used for either JOY STICK or STANDARD BUTTON configuration, you should make sure that this is in the proper position, as indicated by the schematics, for the particular operation you intend to use.

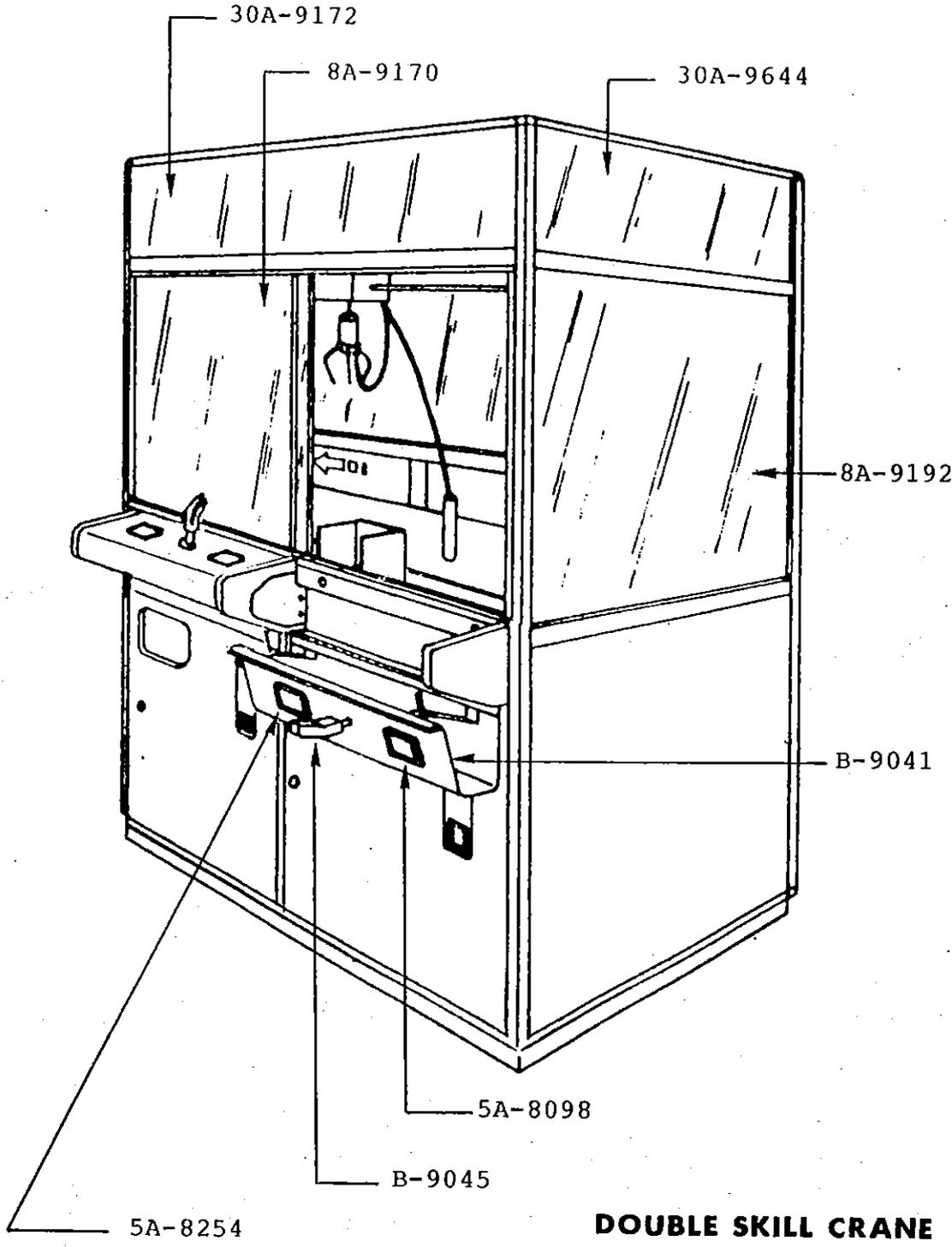
cabinet mueble



cabinet mueble

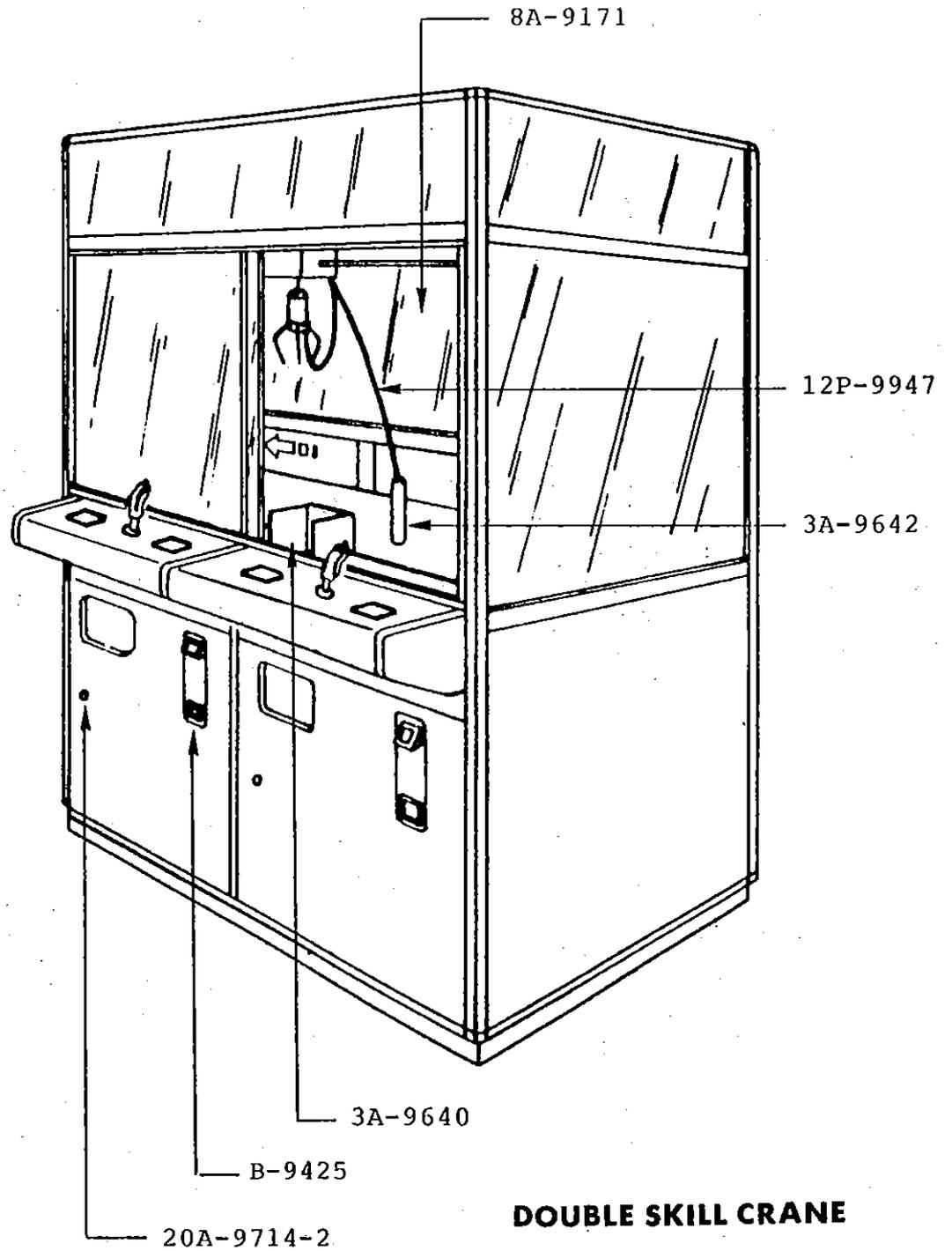


cabinet mueble

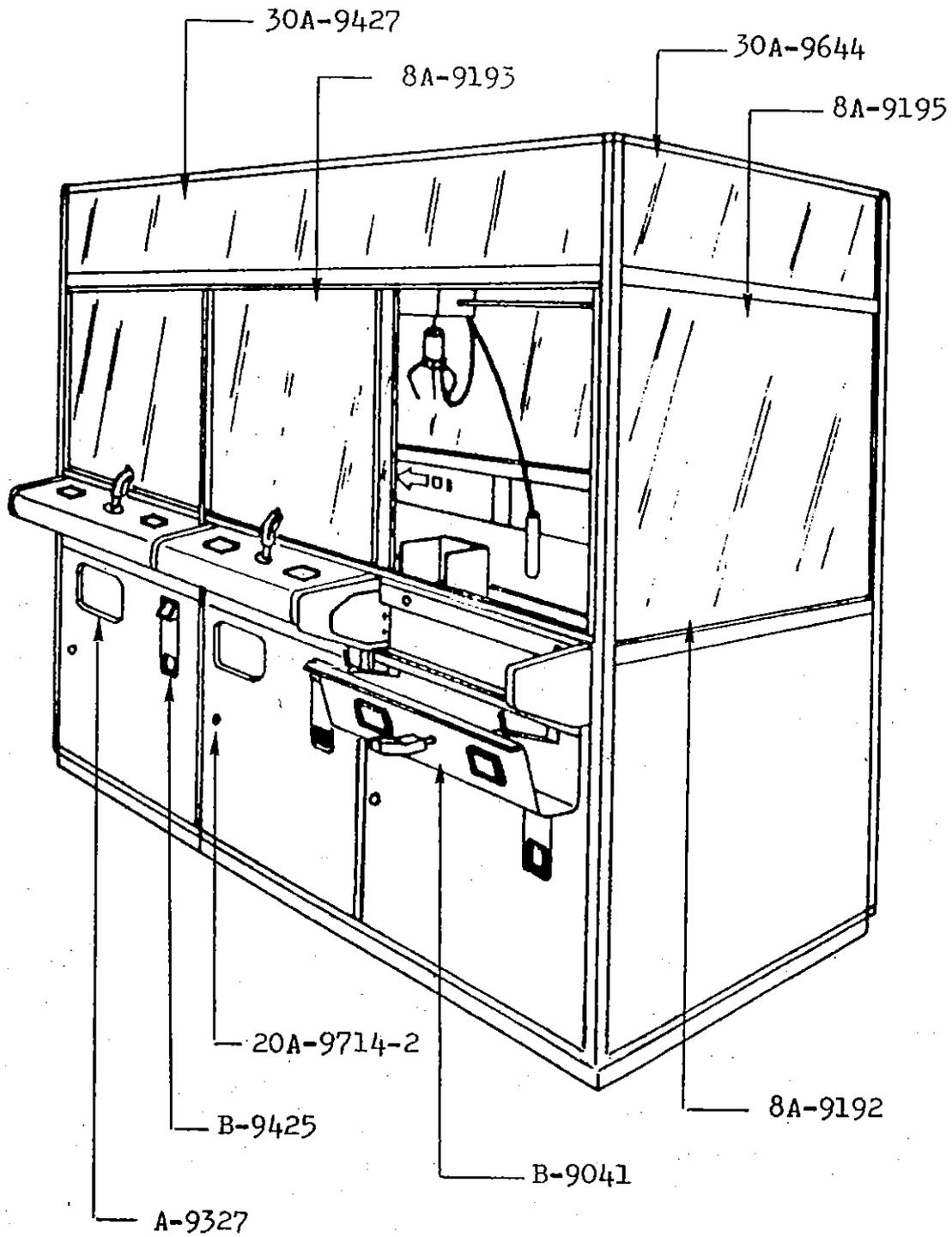


DOUBLE SKILL CRANE

cabinet mueble

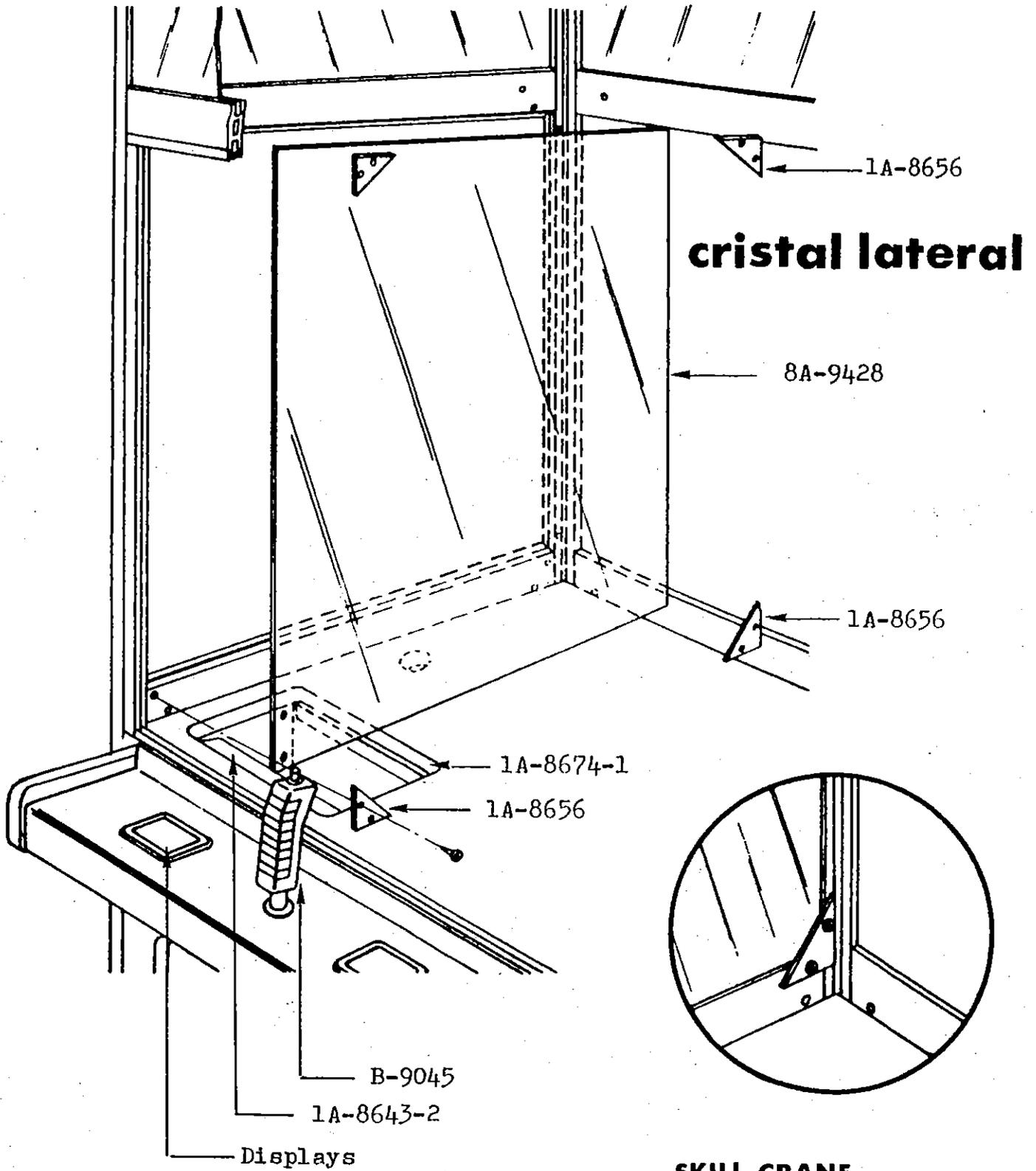


cabinet mueble

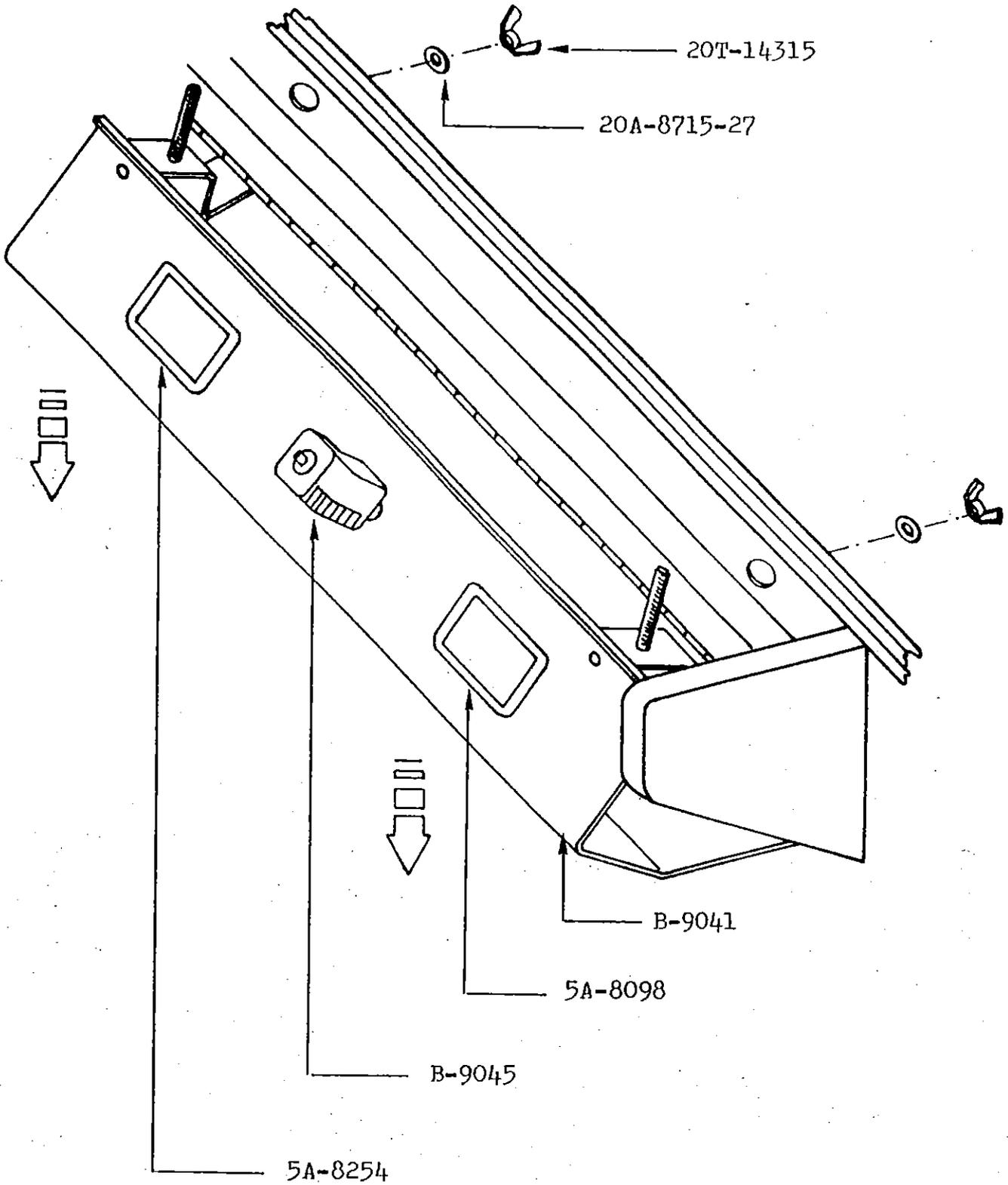


TRIPLE SKILL CRANE

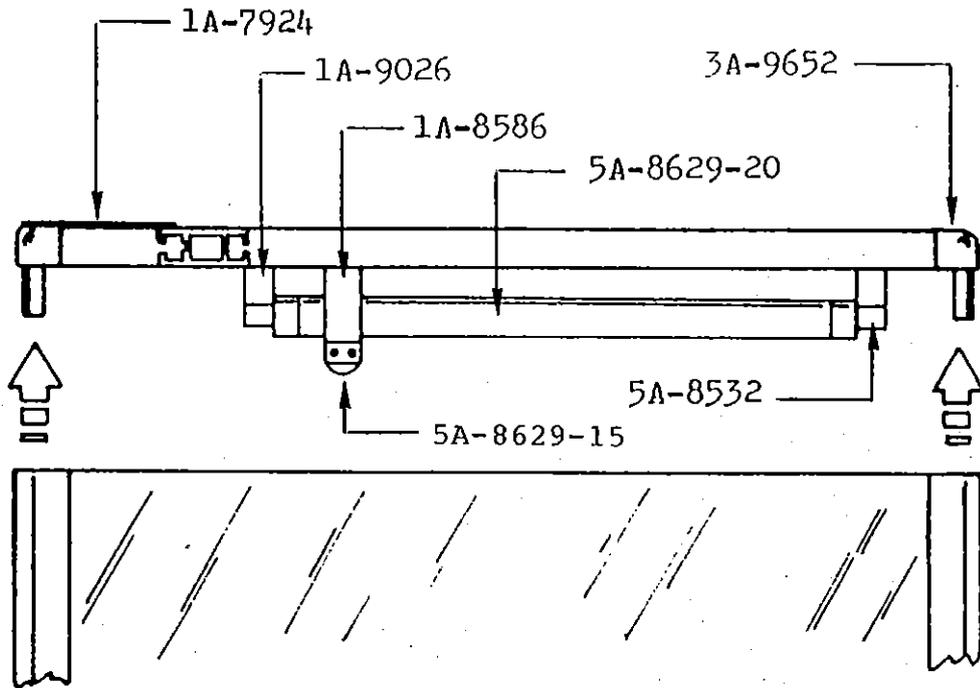
lateral glass



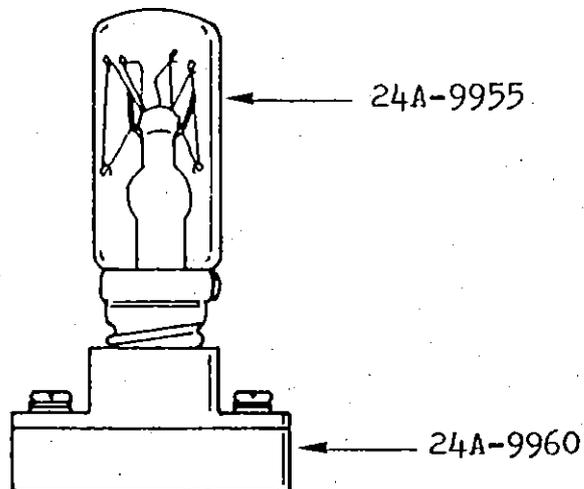
control panel panel de mando



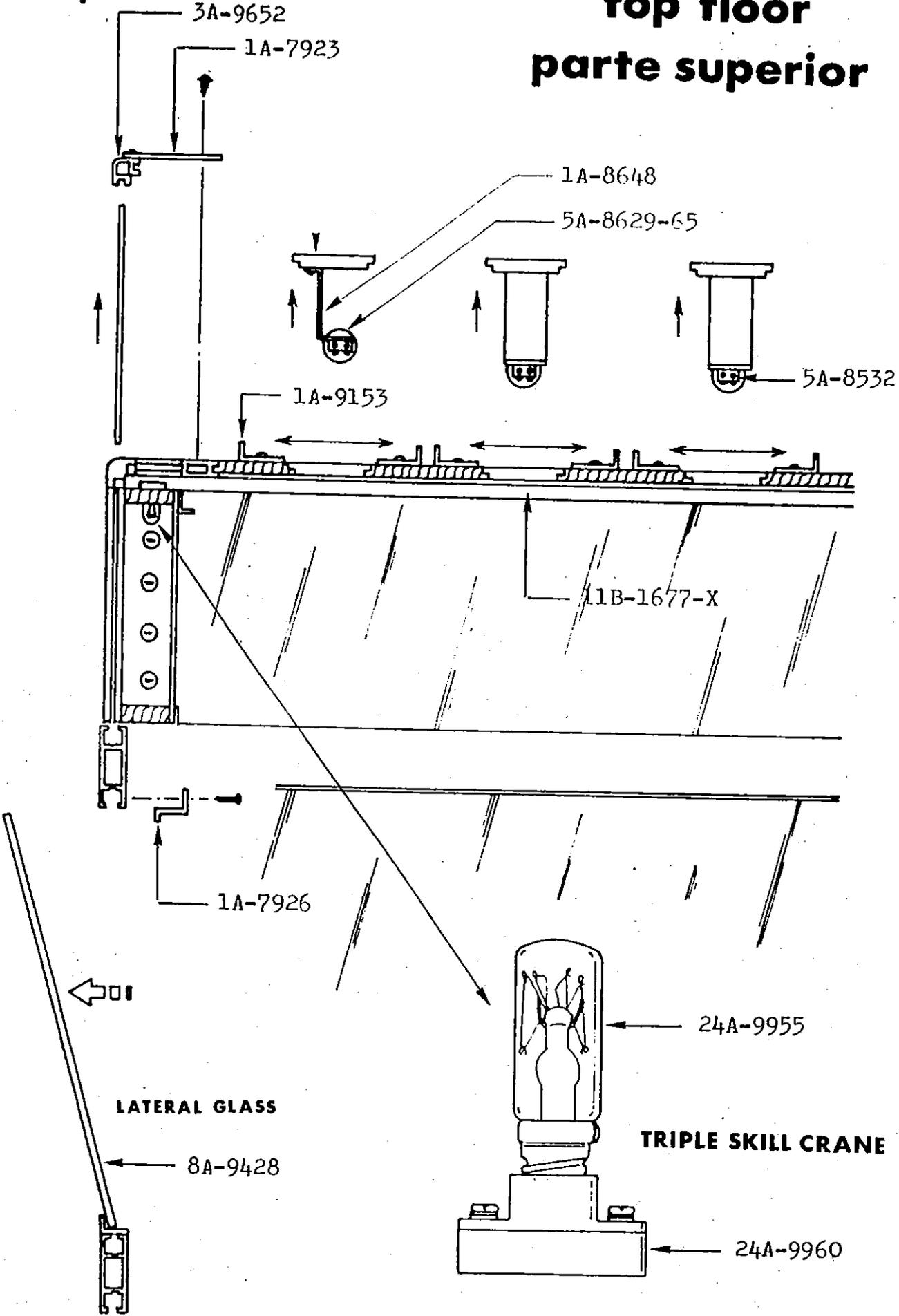
top floor parte superior



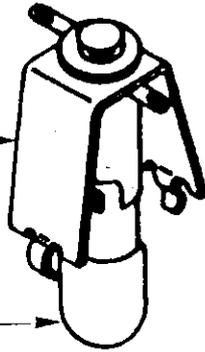
SKILL CRANE



top floor parte superior

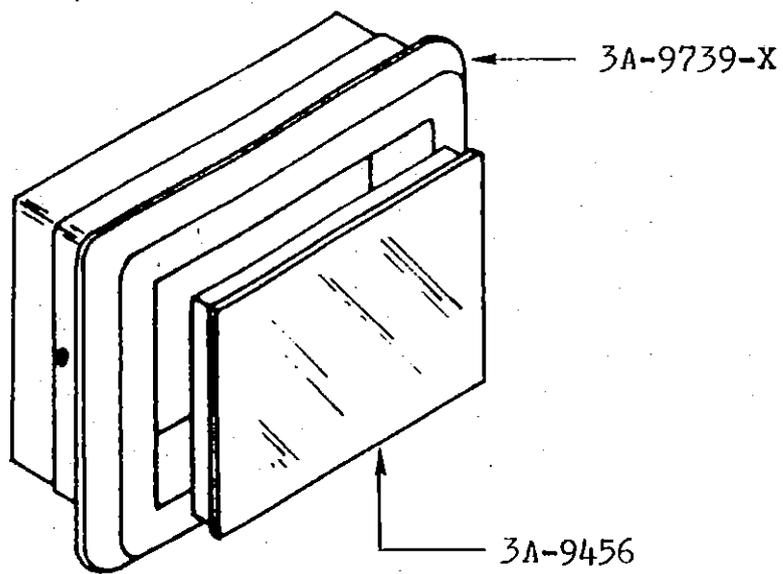
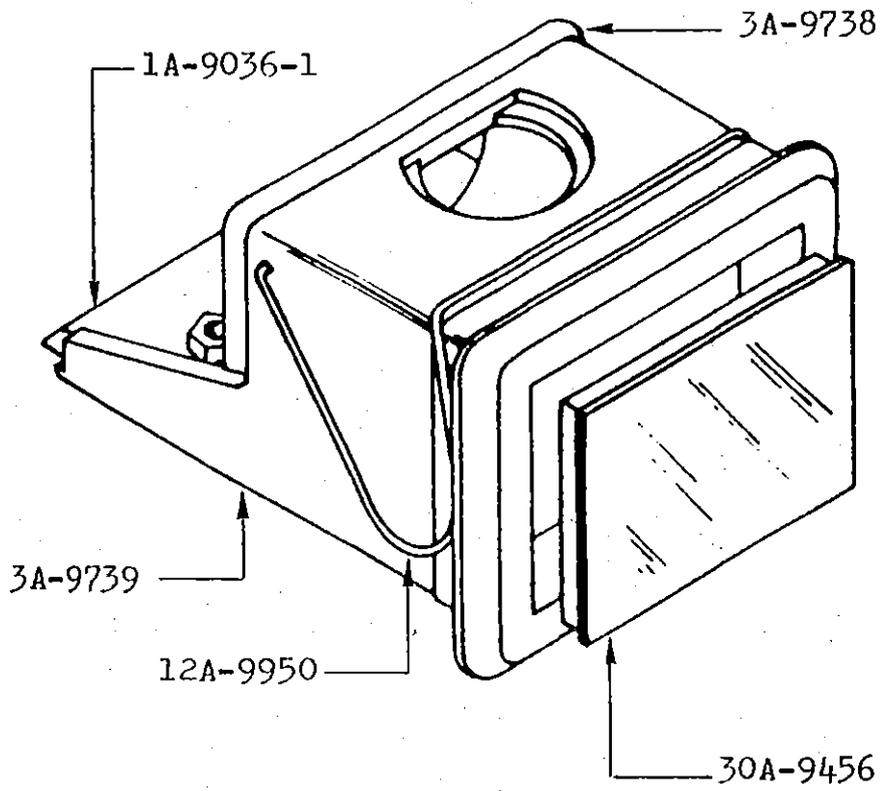


24A-40141

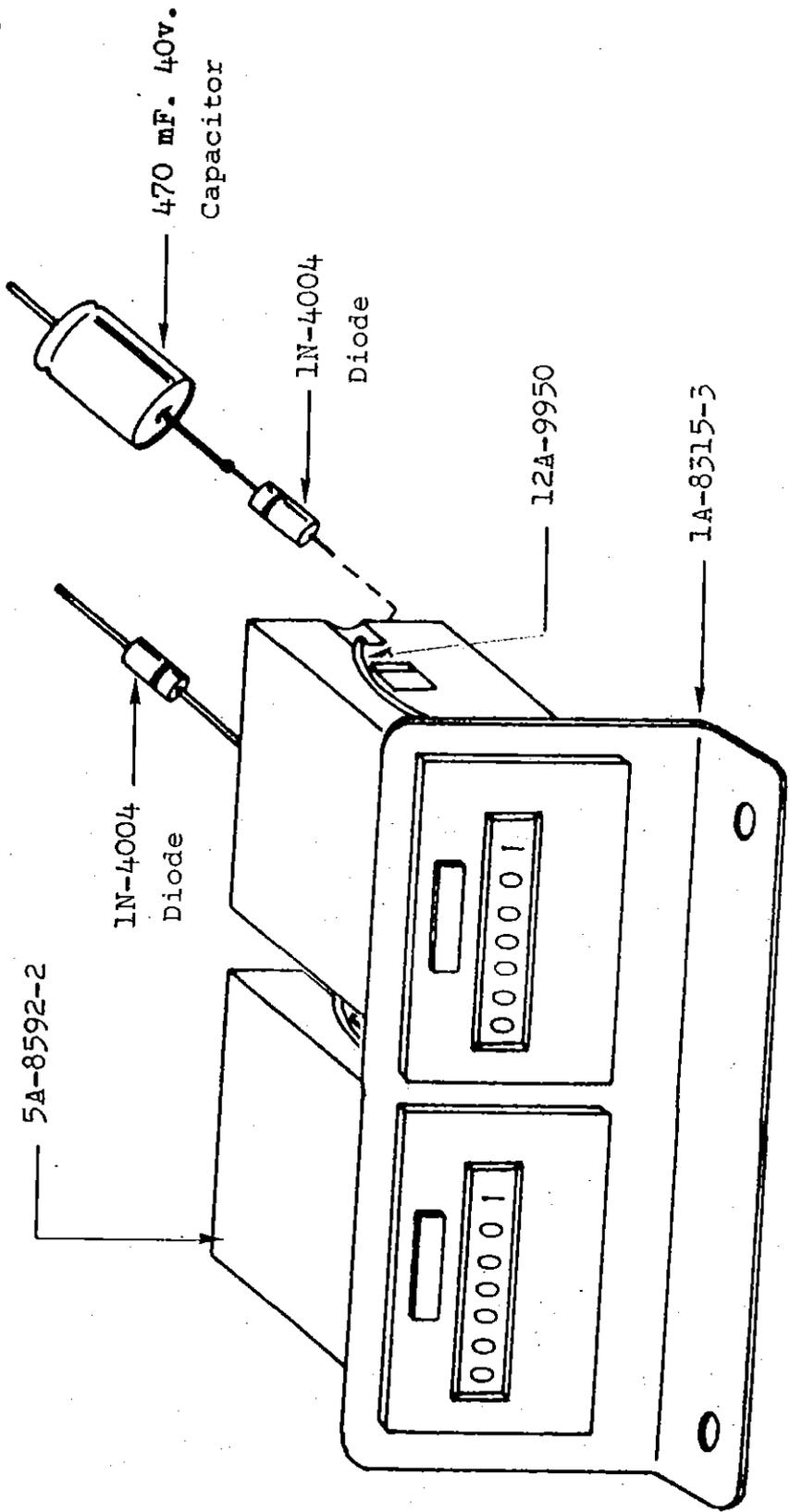


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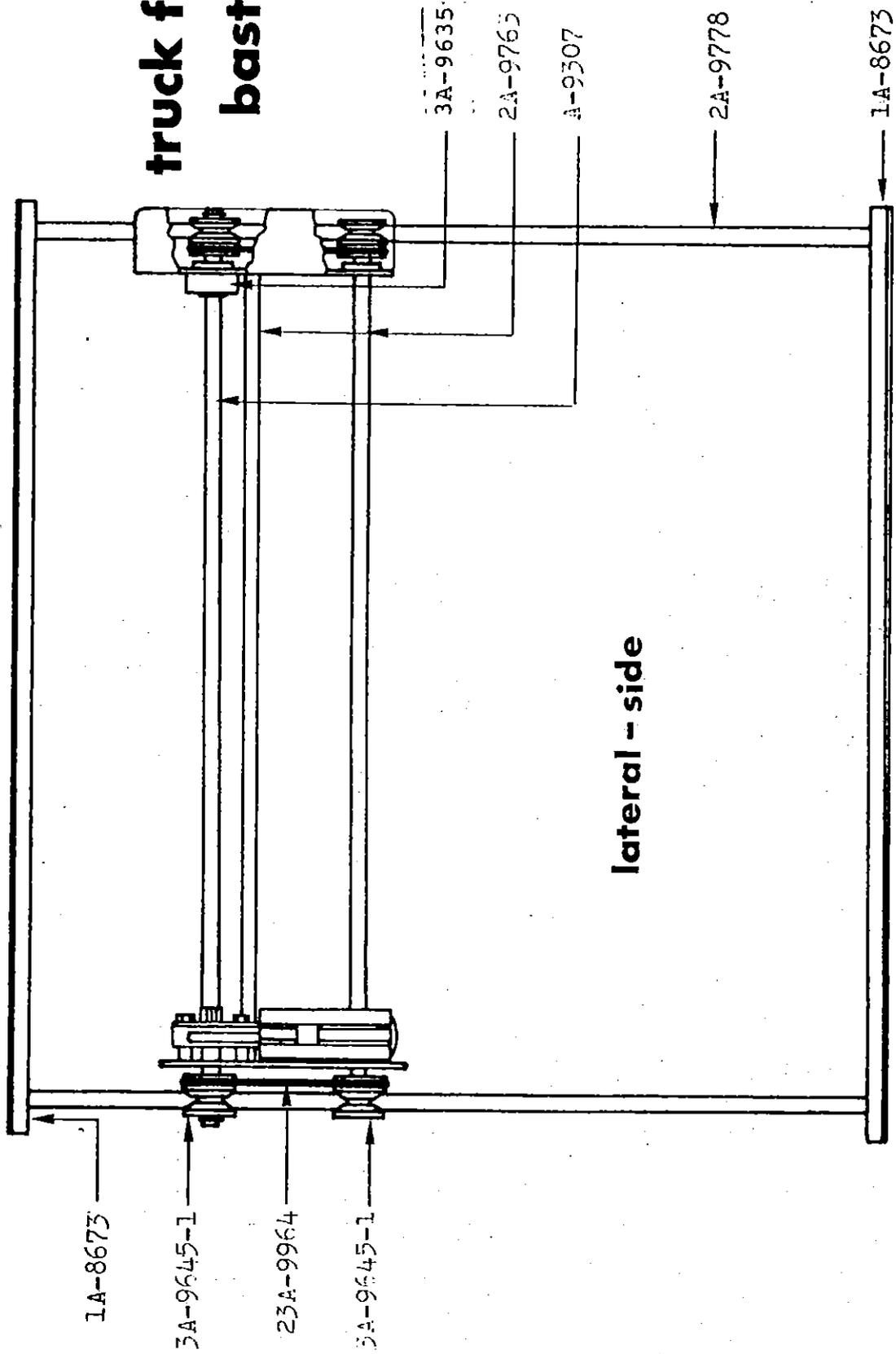
display



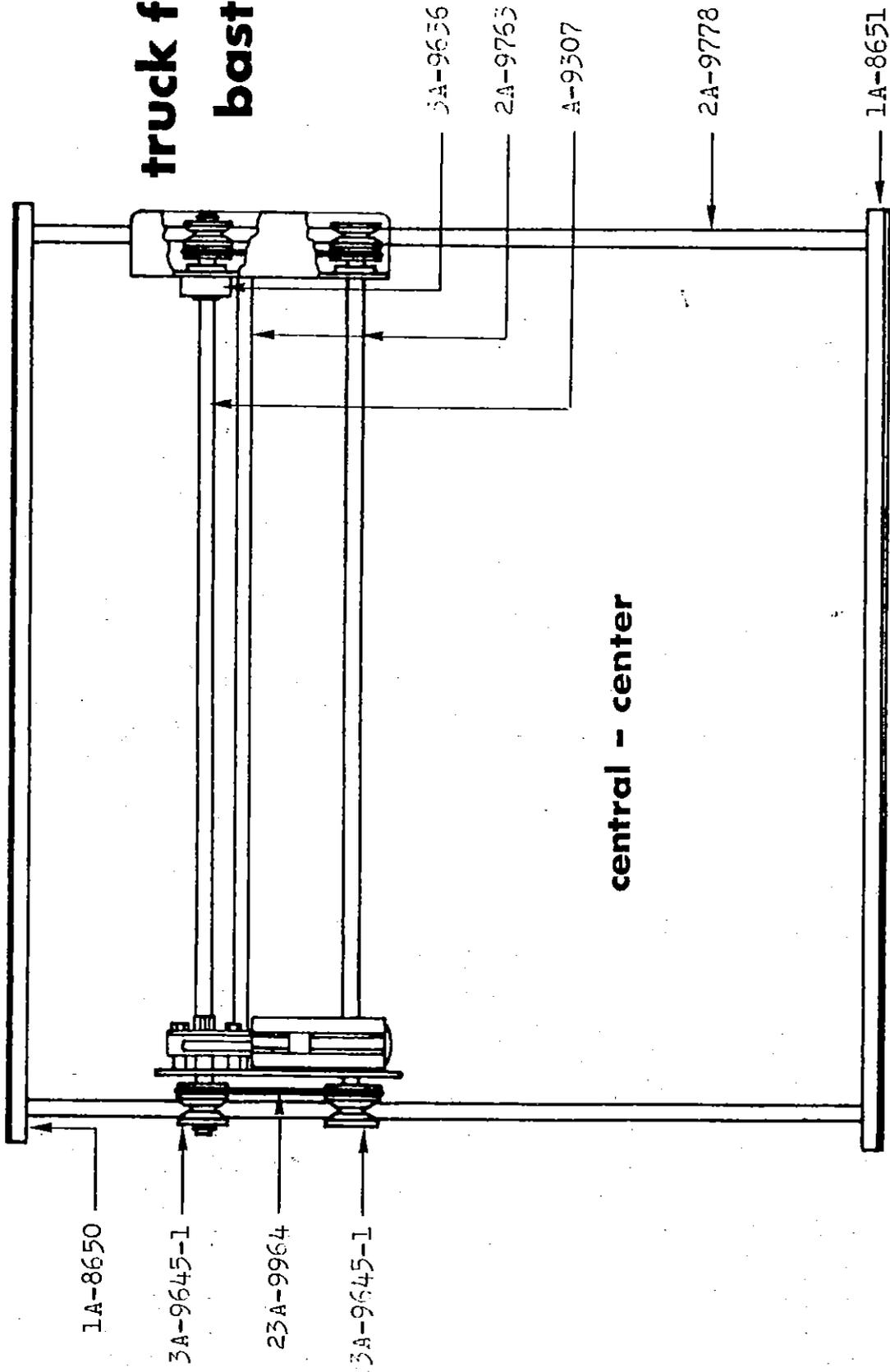
meters ~ contadores



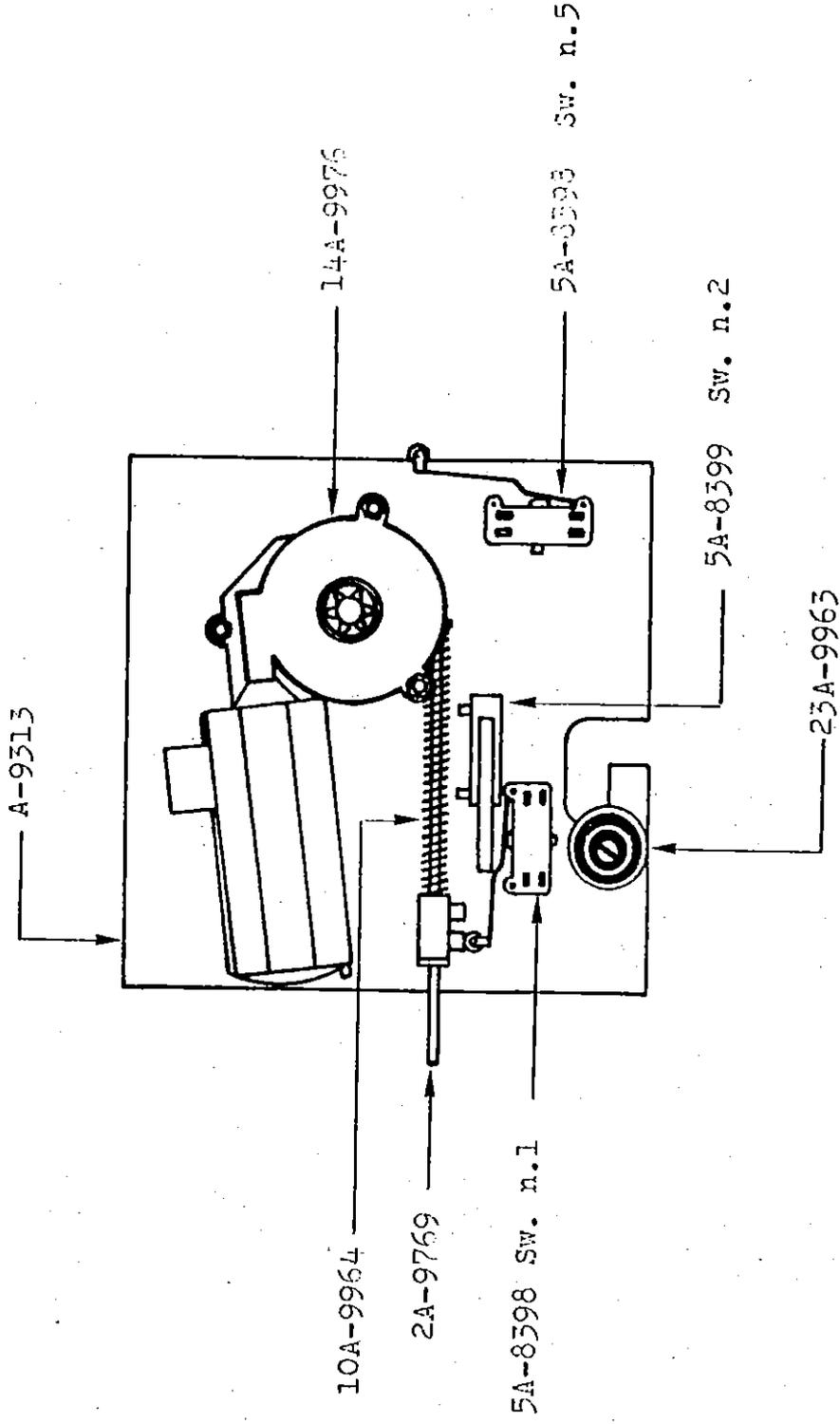
**truck frame
bastidor**



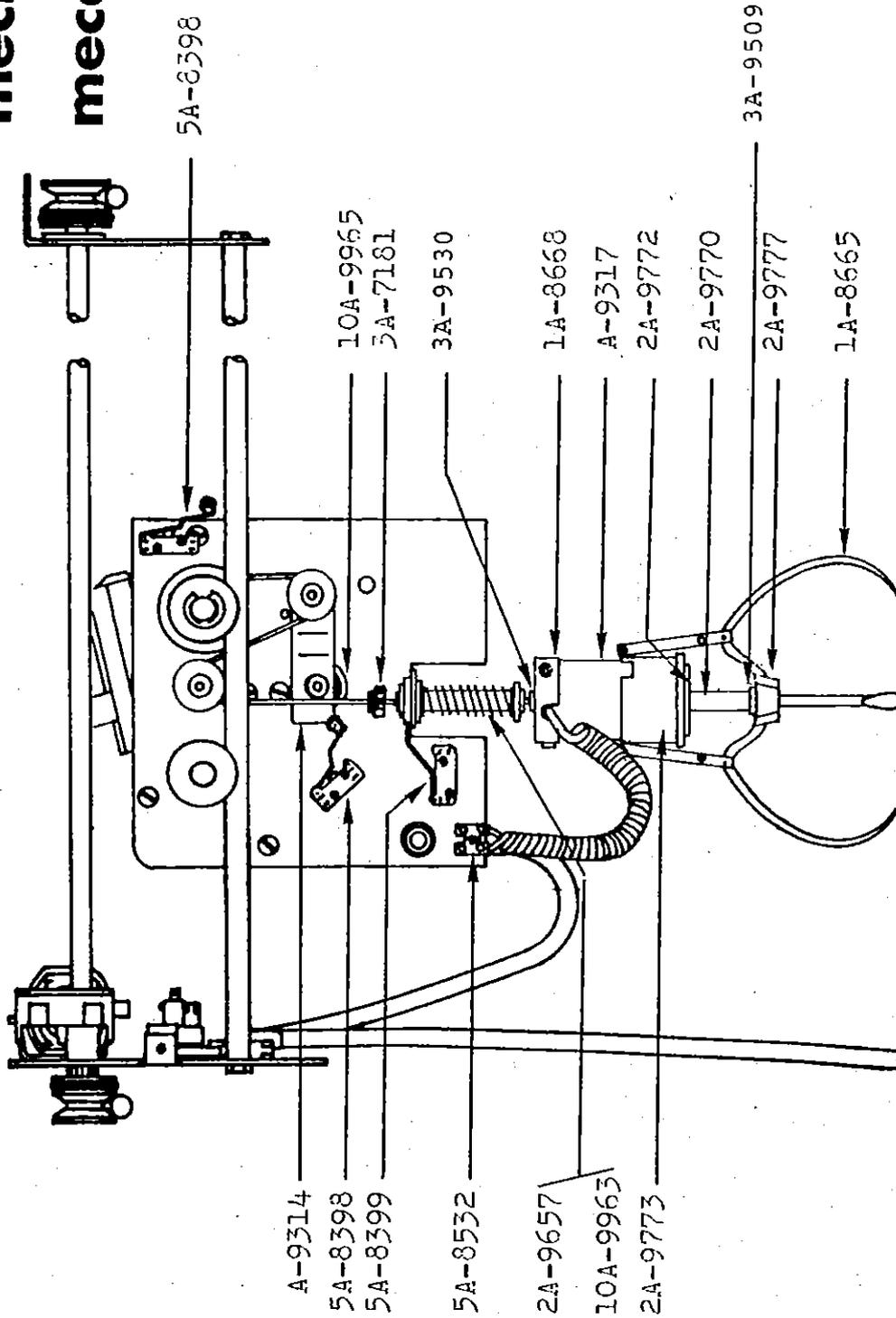
**truck frame
bastidor**



motor sw. micros motor

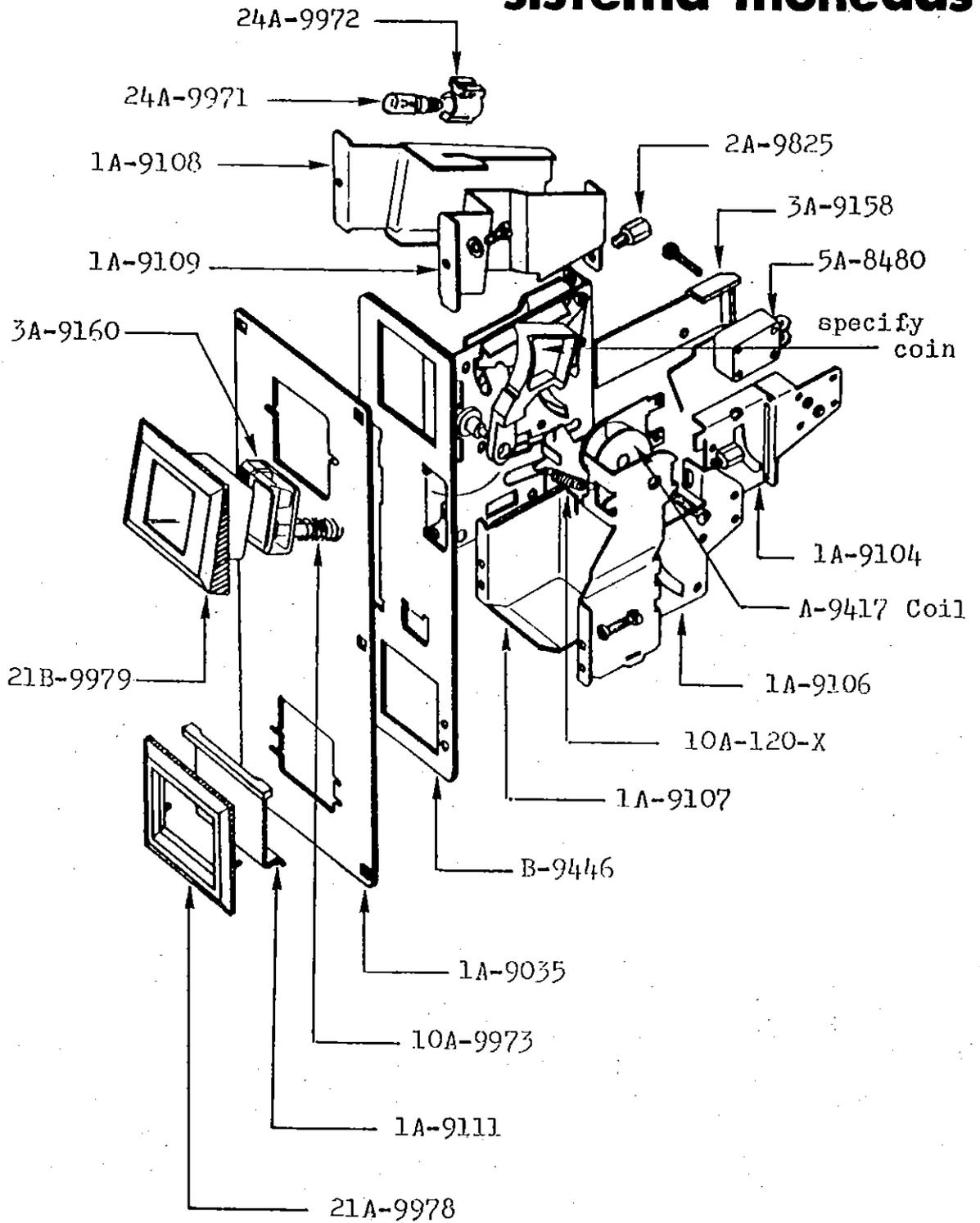


mechanism.
mecanismos



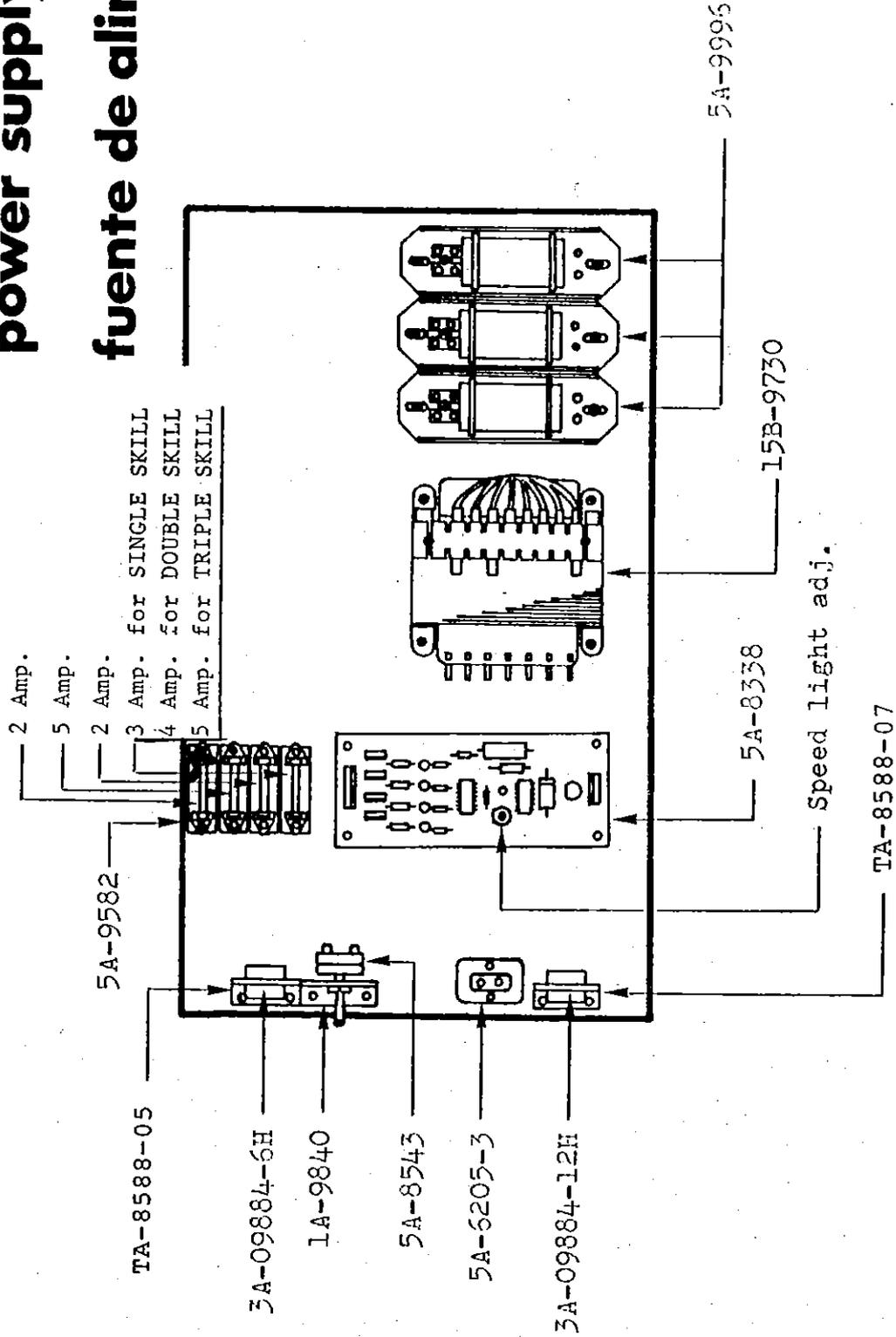
coin entry sistem

sistema monedas

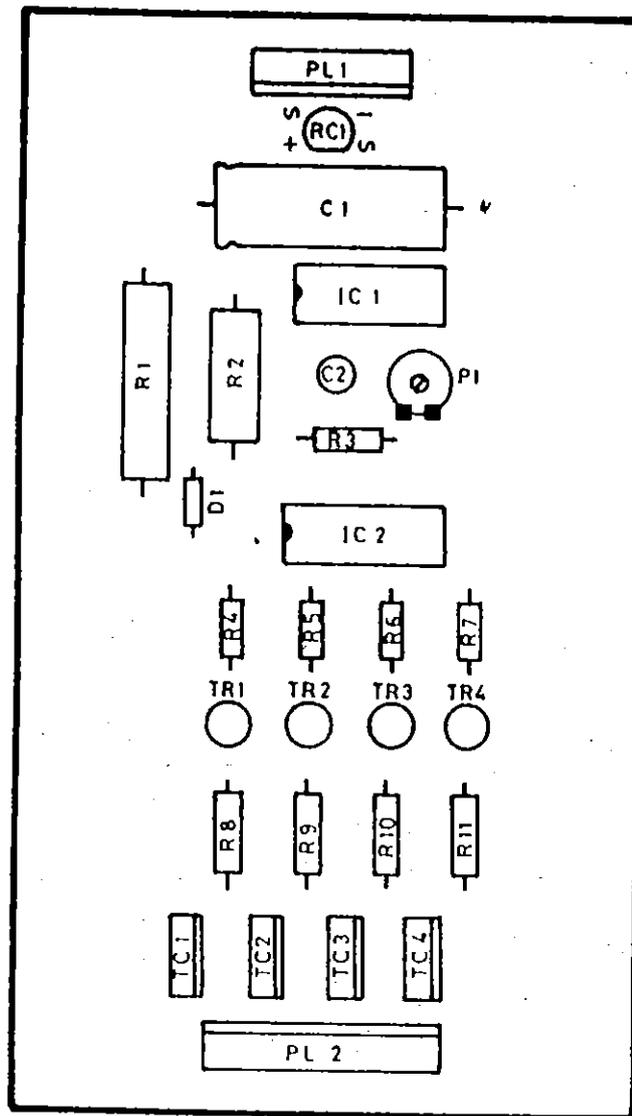


power supply

fuente de alimentacion



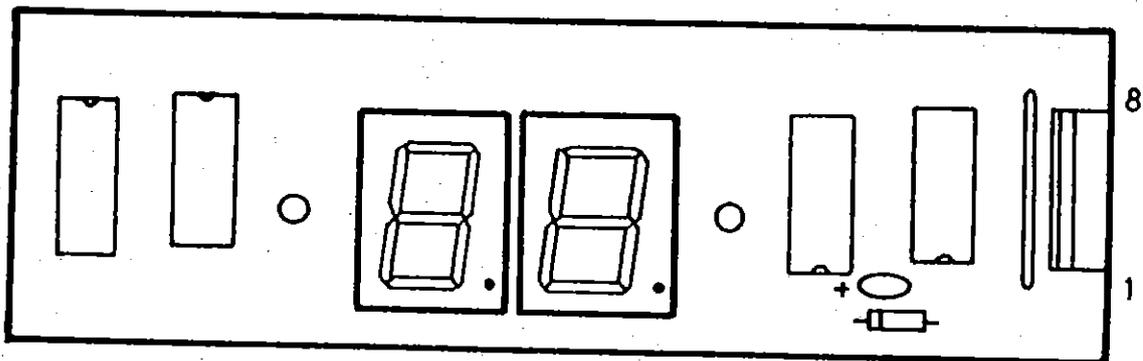
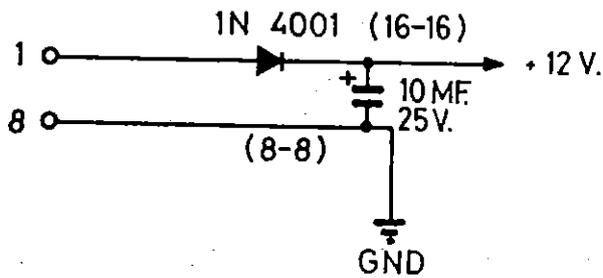
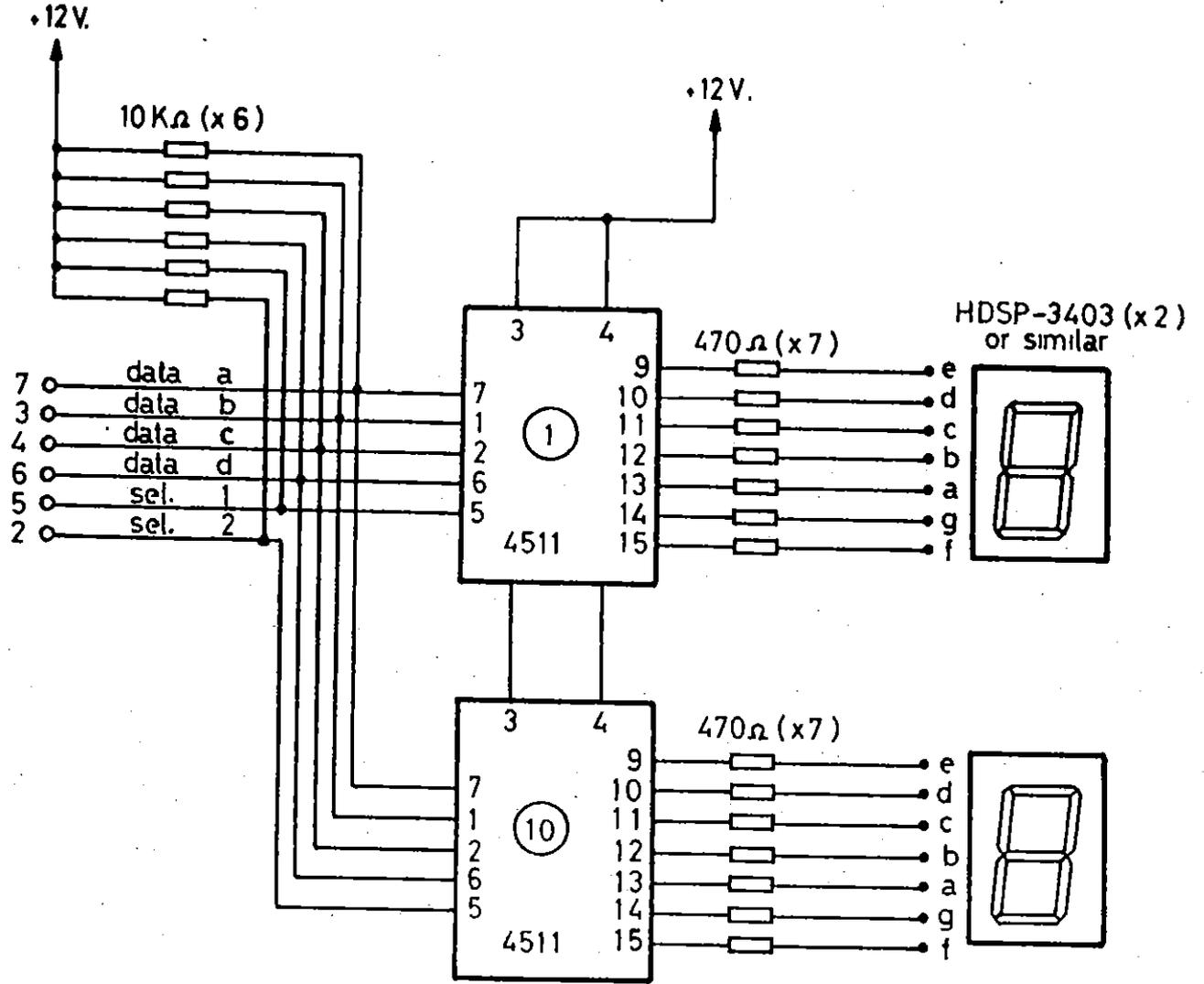
lights pcb. placa luces

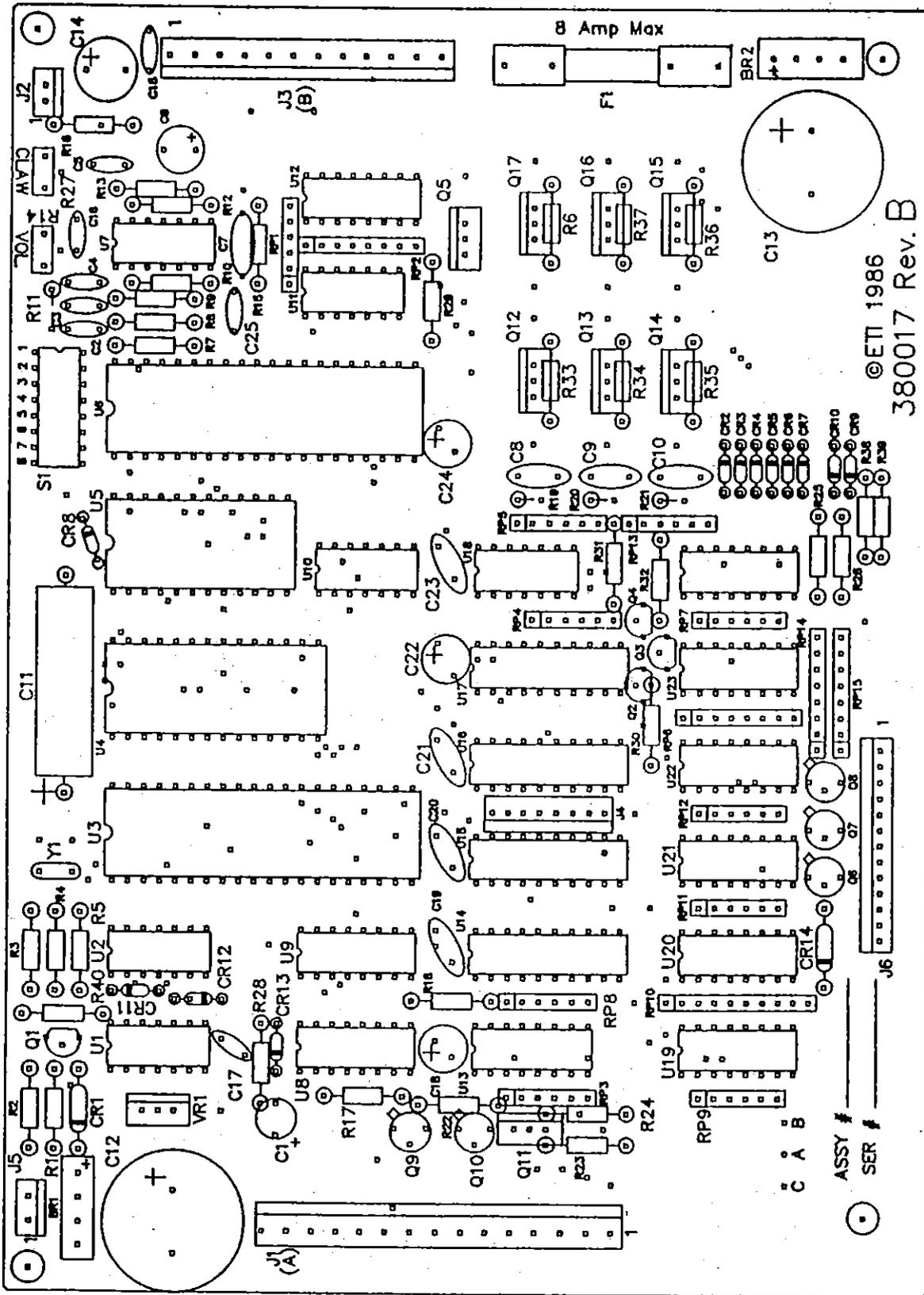


Resistor	220 ohm.	5w.	R-1
"	27 ohm.	1w.	R-2
"	470 ohm.	1/2w.	R-8/11
"	10 K.	1/4w.	R-4/7
"	56 K.	1/4w.	R-3
Capacitor	50 mF.	100v.	C-1
"	47 mF.	35v.	C-2
Integrated circuit	4069		IC-1
"	14017		IC-2
Bridge rectifier	8027		RC-1
Transistor	BC204		TR-1/4
Triac	Y1031		TC-1/4
Diode Zener	ZF 15		D-1
Variable resistor	47 K.		P-1

PLACA DE DISPLAYS

DISPLAYS BOARD

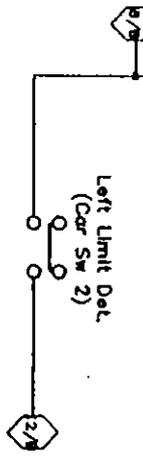
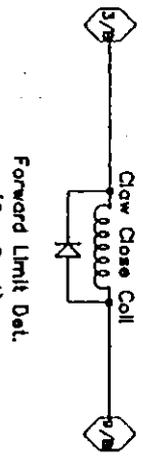
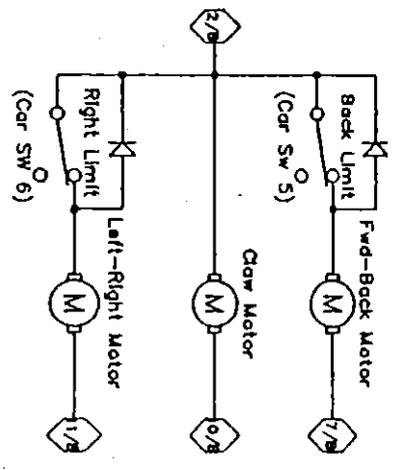
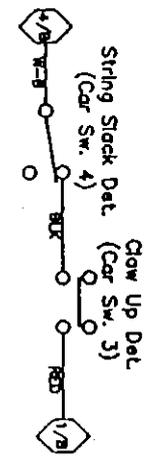
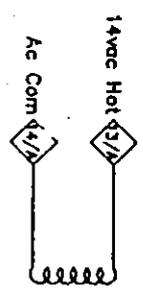
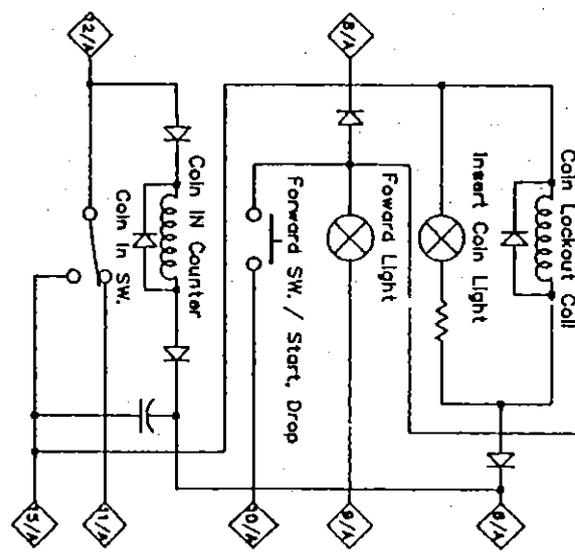
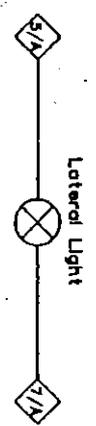
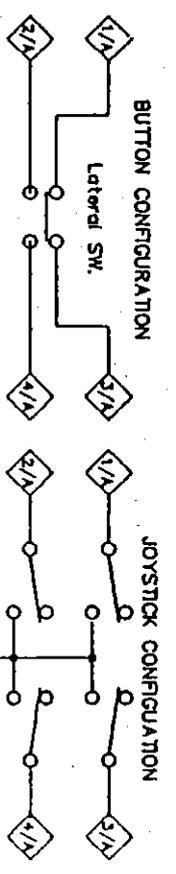




DESCRIPTION			QTY.	DESG.
Capacitor Axial	1000 mF.	6v.	1	C-11
Radial	3300 mF.	25v.	2	C-12,13
Radial	470 mF.	16v.	1	C-14
Ceramic	.1 mF.	50v.	2	C-15,17
Ceramic	2200 pF.	50v.	1	C-16
Radial	10 mF.	16v.	4	C-1,18,22,24
Ceramic	.001 oh.	50v.	1	C-25
Radial	220 mF.	16v.	1	C-6
Ceramic	.47 mF.	16v.	1	C-7
Ceramic	.1 mF.	12v.	11	C-2/5,8/10 19/21,23
Resistor	1K.	$\frac{1}{4}$ w.	6	R-1,5,7/9,11
	1M.	$\frac{1}{4}$ w.	2	R-10,12
	1K2	$\frac{1}{4}$ w.	3	R-17,38,39
	220 ohm.	$\frac{1}{4}$ w.	1	R-29
	470 ohm.	$\frac{1}{4}$ w.	2	R-3,4
	100 ohm.	$\frac{1}{4}$ w.	5	R-2,19/21,40
	2'2K.	$\frac{1}{4}$ w.	5	R-18,22/24
	10K.	$\frac{1}{4}$ w.	9	R-13,15,16 25,26,28 30/32
Variable Resistor	50K.		1	R-14
	2K.		1	R-27
Resistor PK.	2'2K-9R		1	RP-10
	2'2K-5R		1	RP-12
	1'2K-3R		1	RP-1
	4'7K-4R		2	RP-14,15
	2'2K-7R		1	RP-2
	220-3R		1	RP-3
	4K7-3R		1	RP-4
	220-7R		1	RP-6
	100-3R		3	RP-5,7,13
	2'2K-3R		1	RP-8
	1'2K-5R		2	RP-9,11

DESCRIPTION		QTY.	DESG.
<u>Integrated circuits</u>			
Schmitt Trigger	MC14093B	1	U-1
Nor Gate	74HC02	1	U-10
Quad Opto	1LQ74	8	U-12,13,19,24
Octal Buffer	74LS244	1	U-14
Octal Latch	74LS374	3	U-15/17
Hex Buffer DR.	74LS05	1	U-18
Hex Schmitt	74HCL14P	2	U-2,11
Microprocessor Z80	Z8400A	1	U-3
Eprom 32KX8	27128	1	U-4
Ram 2KX8	HM6116-3	1	U-5
Sound Chip	AY-3-8910	1	U-6
Dual 2 Watt	LM1877-9	1	U-7
14 Bit Binary	MC14020B	1	U-8
1 of 8 Decoder	74LS138	1	U-9
Transistor	2N4403	4	Q-1/4
	TIP121	2	Q-5,11
	2N2222A	3	Q-7,8,10
	2N2907	1	Q-9
	BD-437	1	Q-6
Diode Zener	3'9 v.	2	CR-1,14
Diode	1N914	12	CR-2/13
Tiristor	S2800A	6	Q-12/17
Voltage Regulador	7805	1	VR-1
Crystal 4MHZ	MPS040	1	Y-1
Fuse clip	5A-8100	1	F-1'
Fuse 8 amp.	5A-8K0-632	1	F-1
Bridge rectifier 1 amp.	5A-8096	2	BR-1,2
PCB Crane Controller	1B-2001-162	1	-
Heat Sink	1A-7791	7	Q-5,12/17
Heat Sink	1A-7790	1	VR-1
Heat Sink	1A-8096	1	U-7

DESCRIPTION		QTY.	DESG.
Spacers, nylon captive	3A-9813	4	-
Dip-switch 8 position	5A-8515-8	1	S-1
Connector 2 pin	5A-8516-2	1	J-5
12 pin	5A-8516-12	1	J-3 b.
15 pin	5A-8516-15	1	J-1 a.
2 pin	5A-8439-2	1	J-2
8 pin	5A-8439-8	1	J-4
13 pin	5A-8439-13	1	J-6



REV. DESIGNATION		PARTS LIST		SHEET / IN	
TOLERANCES UNLESS SPECIFIED		APPROVALS / DATE		Entertainment Technology, Inc.	
DRAWN BY		DATE		SCHEDULED, SEGA Games	
CHECKED BY		DATE		Wire Diagram	
NEXT ASSY USED ON		SIZE D		REV. NO. 140017	
APPLICATION		DO NOT SCALE DIMS		SHEET 1 OF 3	

A

B

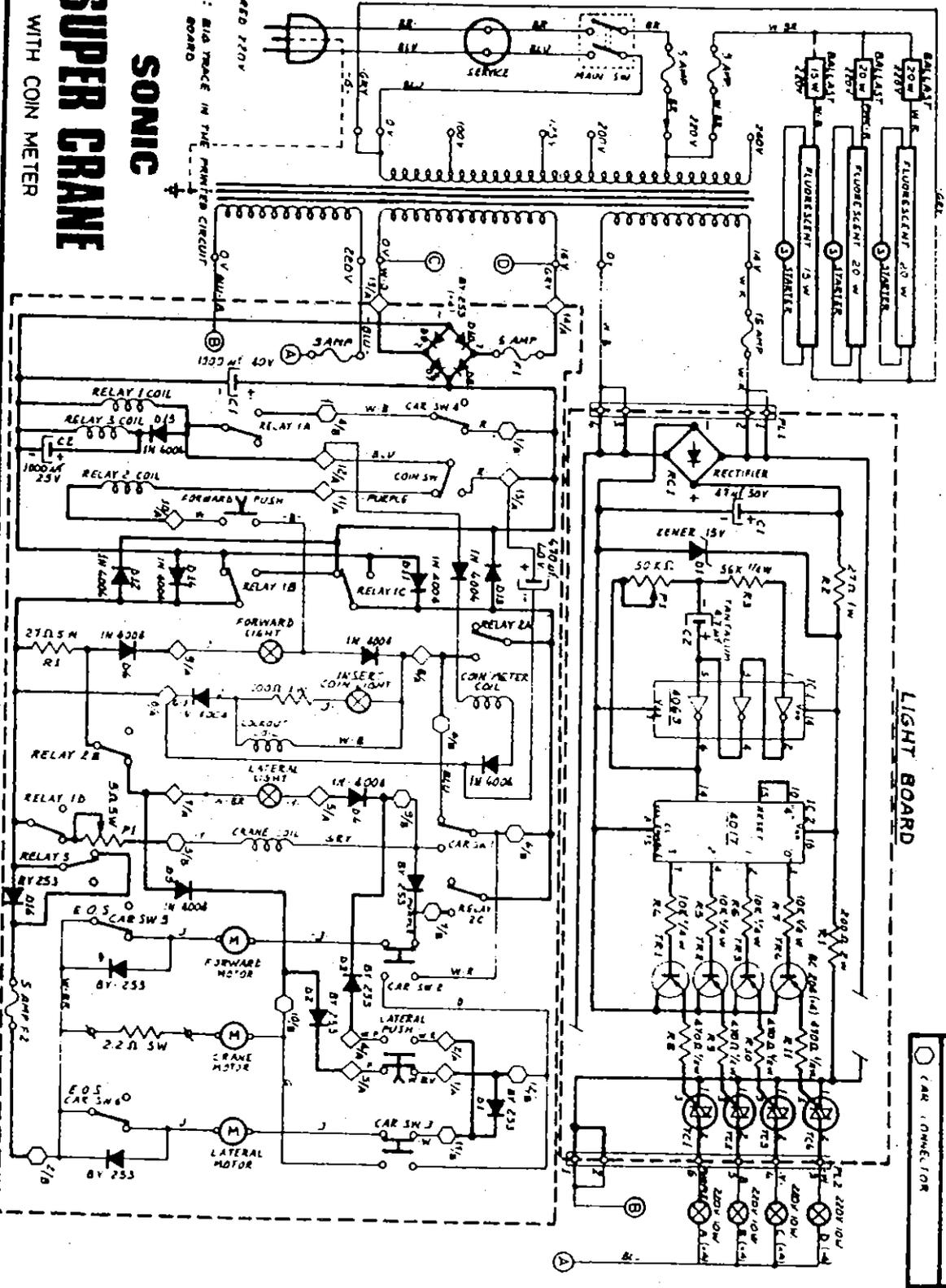
3

C

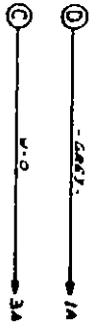
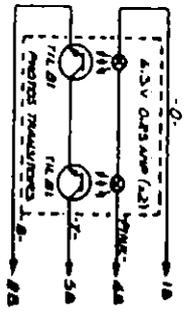
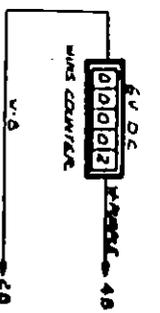
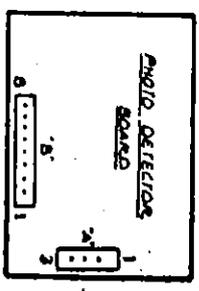
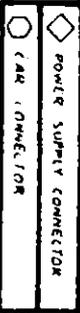
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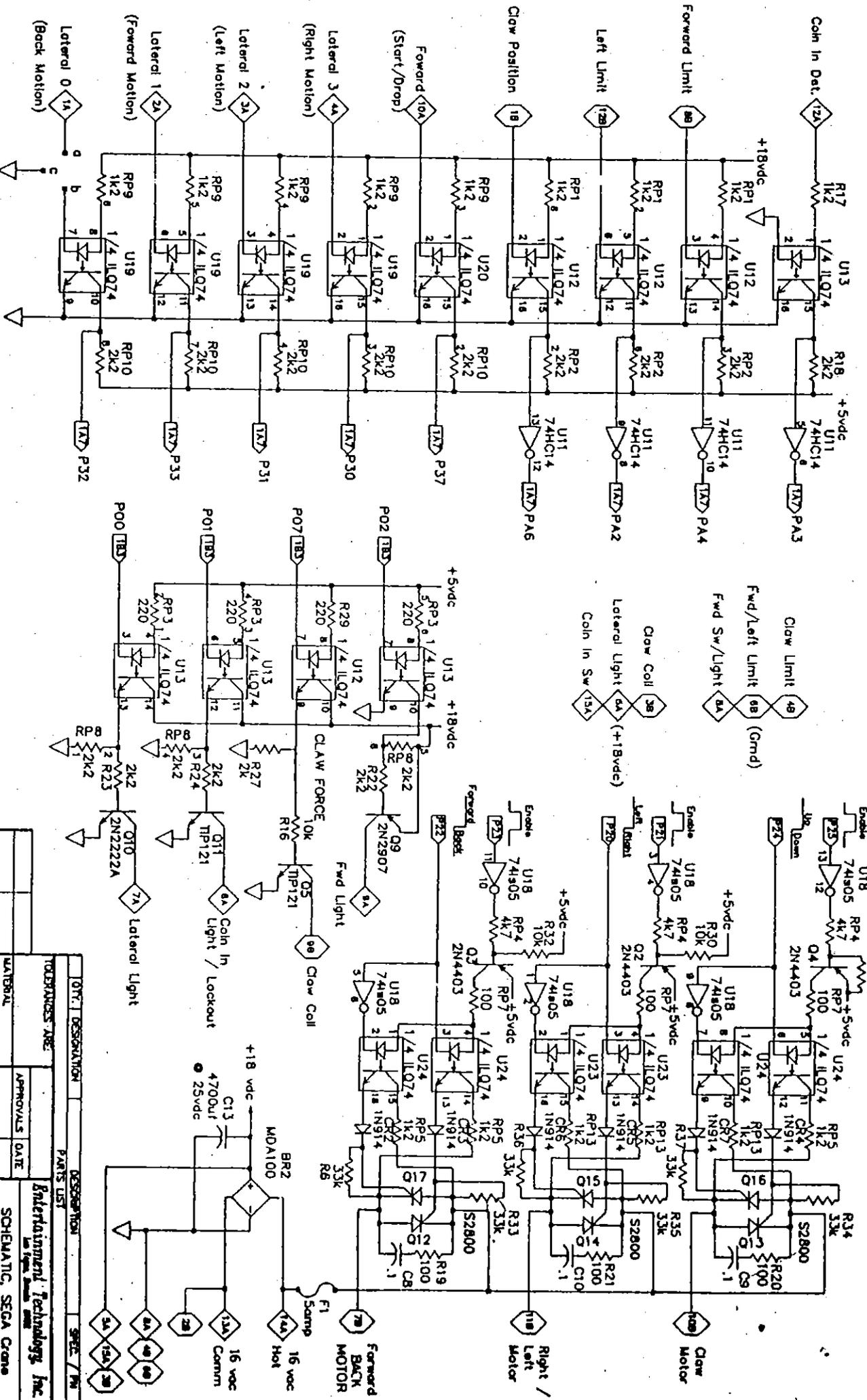
SONIC SUPER CRANE WITH COIN METER

NOTE: BIRD TRACE IN THE PRINTED CIRCUIT BOARD



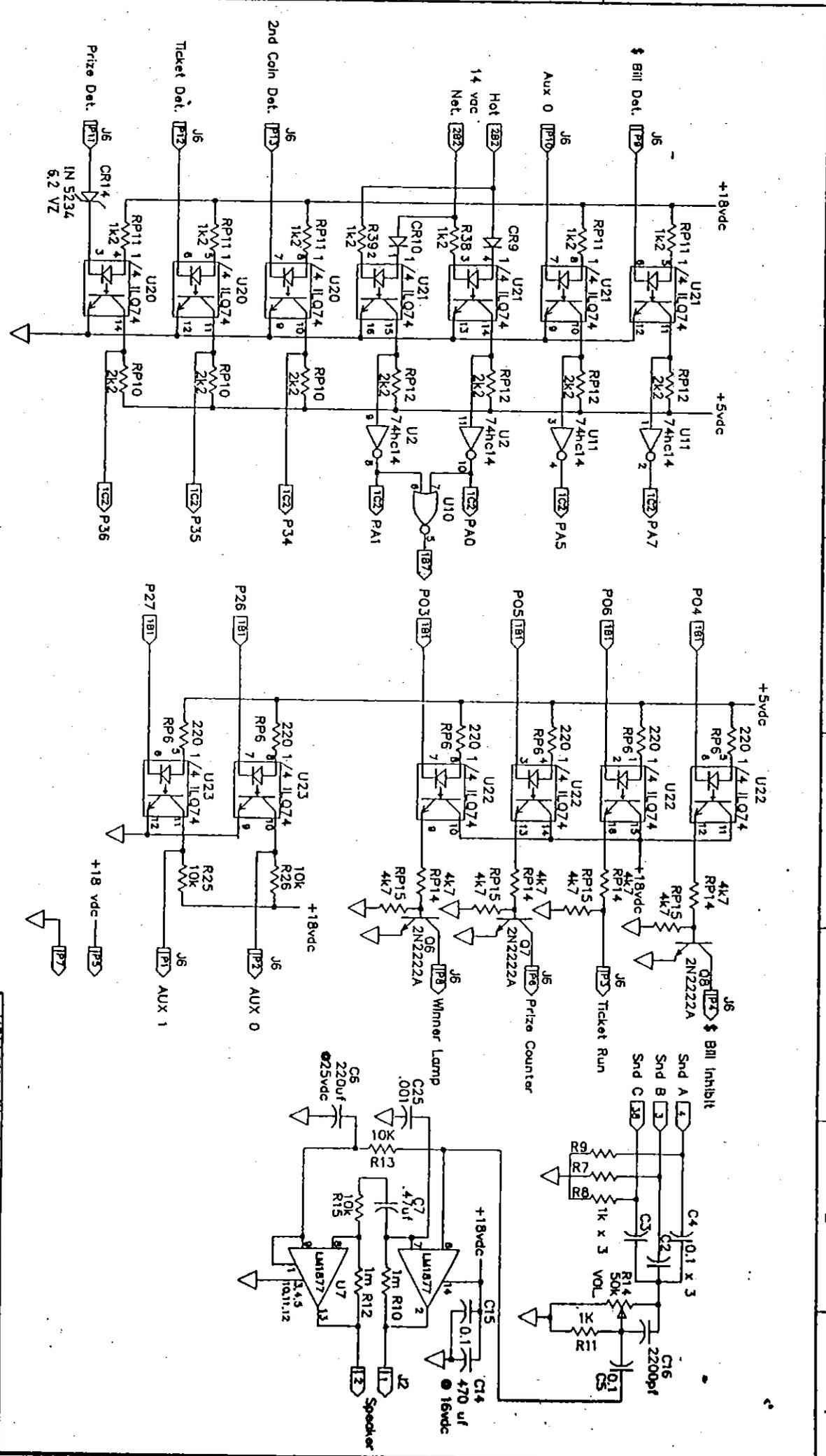
LIGHT BOARD





NOTE: For 2 Button operation use Jumper A-C For Joy Stick Operation use Jumper A-B

QTY:	DESIGNATION:	DESCRIPTION:	SPEC. / PW
TOLERANCES ARE:	PARTS LIST		
MATERIAL:	Interentertainment Technology, Inc.		
FINISH:	SCEMATIC, SEGA Game Controller PCB		
APPROVALS DATE:	SIZE D DWG. NO. J20017		
DO NOT SCALE DWG.	SCALE		
APPLICATION:	SHEET OF 3		



QTY		DESIGNATION		SHEET / PAGES	
TOLERANCES ARE:		PARTS LIST		Entertainment Technology, Inc.	
MATERIAL		APPROVALS DATE		SCHEMATIC, SEGA Game Controller PCB	
NEXT ASSY. USED ON		FINISH		SIZE D	
APPLICATION		DO NOT SCALE DIMS		REV 8	
				SHEET 3 OF 3	

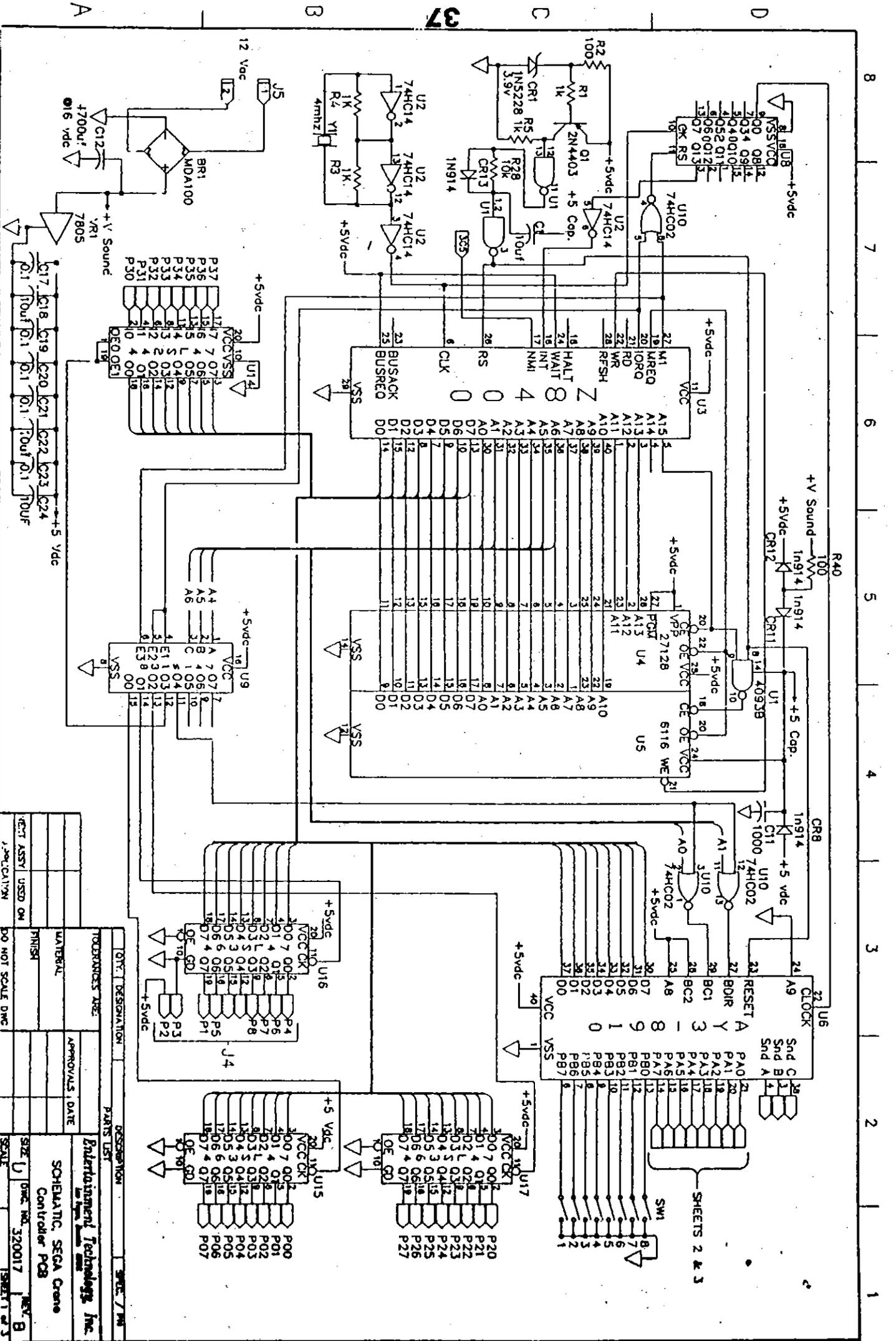
A

B

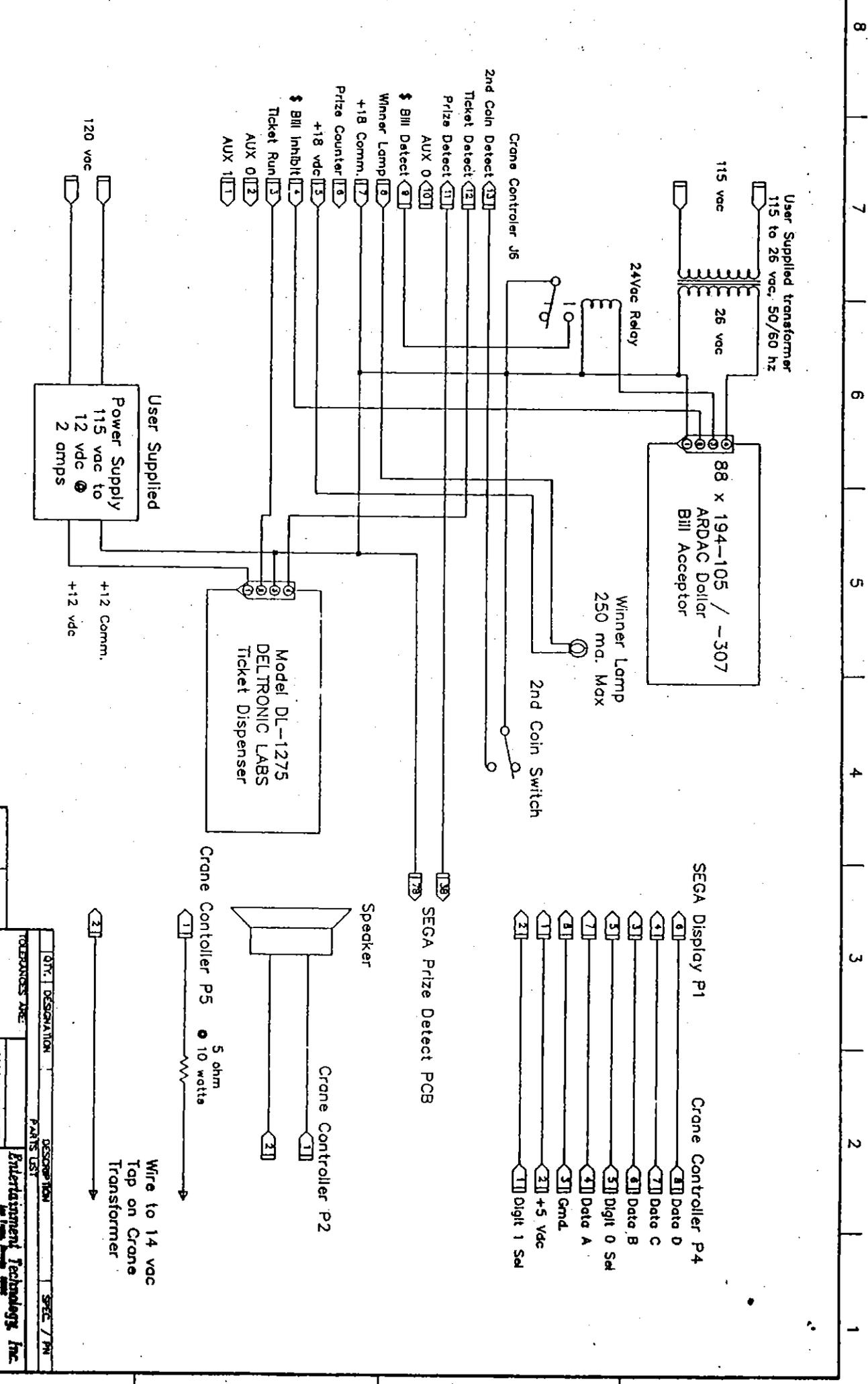
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C

D



PARTS LIST		DESCRIPTION		DATE / REV	
QUANTITY		DESIGNATION		SHEET / PAGES	
TOLERANCES UNLESS SPECIFIED		APPROVALS / DATE		Entertainment Technology, Inc.	
MATERIAL		APPROVALS / DATE		SCHAFFNER, SEGA Game	
FINISH		APPROVALS / DATE		Controller PCB	
TEST ASSY USED ON		APPROVALS / DATE		REV B	
APPLICATION		APPROVALS / DATE		SCALE	
DO NOT SCALE DIMS		APPROVALS / DATE		SIZE J	
		APPROVALS / DATE		DWG NO. 320017	
		APPROVALS / DATE		SHEET 1 OF 3	



DATE	DESIGNATION	DESCRIPTION	SPEC / PM
	TOLERANCES ARE	FRACTIONS	
	MATERIAL	APPROVALS / DATE	
	FINISH		
	APPLICATION		
	USED ON		
	DO NOT SCALE DIMS		
		Entertainment Technology, Inc.	
		SCHMATIC, SEGA Crane	
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