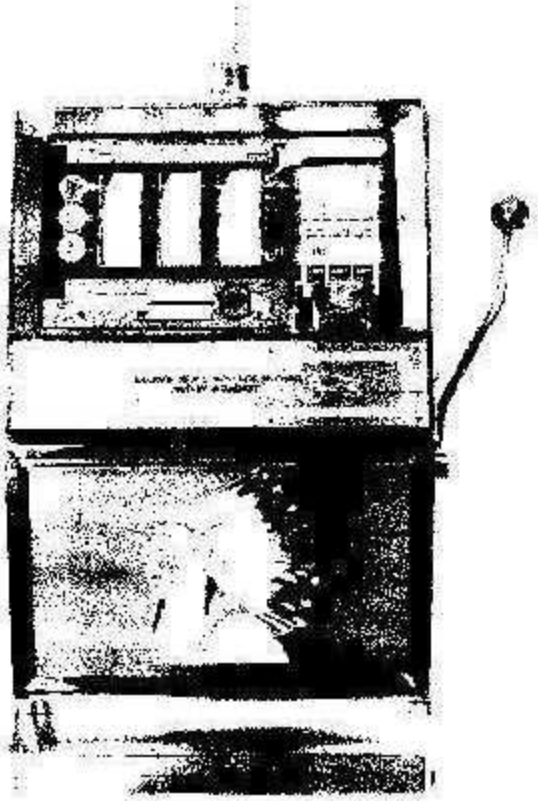
JENNINGS

400 Series

Service Instructions and Parts Manual



October 14, 1974

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JENNINGS 400 SERIES

INSTALLATION INSTRUCTIONS

The Jennings 400 Series Machine is delivered with pre-set factory adjustments and is designed to operate on a 115 volt, 60 cycle power source. It may be converted to a 220 volt, 50 cycle source by changing the primary voltage taps on the Power Transformer located in the lower left corner of the Cabinet. Unless previously specified, all machines are prepared for 115 volt, 60 cycle operation.

Once the machine has been removed from its packing carton a visual inspection of the Cabinet should be performed to insure that the machine has sustained no physical damage in shipment. Keys to the machine are taped to the machine handle during shipment. Two sets of two keys each are shipped with each machine. One set of keys will unlock the Front Door. The other set will operate the Electrical Reset Key Switch, which is located on the right side of the Cabinet, behind the handle ball and is to the rear of the Cabinet.

Once the Front Door of the machine has been opened, the Hopper Assembly must be removed in order to mount the machine to a stand. The Hopper Assembly is locked in place by its handle and can be released by lifting the handle of the Hopper forward from the Cabinet Assembly. Mounting holes have been provided in the base of the Cabinet Assembly. One mounting hole is located next to the Hopper Mounting Plate Assembly in the front center of the Cabinet. The other is located about eight inches behind the first hole to the rear of the Cabinet.

When the machine has been bolted to the stand with appropriate drop hole and power cord hole provided in the stand, the machine is ready to be connected to an adequate 115 volt, 60 cycle power source. To insure efficient operation, the machine is supplied with a three wire power cord, and the earth ground provided by the green wire in the power cord must be utilized.

Prior to connecting the machine to a three prong convenience outlet, make sure the main power switch located on the right side of the mechanism support shelf is in its down (off) position. This switch controls the overall input power to the power transformer. With the power switch in the off position, the machine may now be connected to a convenience outlet. If proper power is supplied, the amber light located in the rear of the Cabinet on the Power Supply Assembly will glow.

Prior to turning on the main power switch, insert the key in the Reset Key Switch and insure the switch is in its Normal (turned as far clockwise as possible) position. The power on-off switch may now be turned on. After this is accomplished, rotate the Reset Key Switch 90 degrees counter-clockwise, and then return it to its normal position. (Since the machine is equipped with full memory capabilities, this insures that all electrical circuits are at their respective zero or start position At this time you will observe that the general illumination lights on the front door are illuminated.

The Hopper unit may now be filled with the proper coins to the desired level; for instance, 5¢ machine, $35.00; 10¢ machine, $90.00; 25¢ machine, $100.00. After the Hopper is filled to its proper level, replace it in its position in the Cabinet.

The Hopper is equipped with a hinge and spring assembly which will control the level of coins maintained in the Hopper. The wing nut on the Hopoer Assembly must now be adjusted so the Coin Diverter Coil located on the door of the Cabinet will be activated by the weight of the coins in the Hopper. The Diverter Coil is located in the bottom of the Chute Assembly immediately below the coins-in switch. When the Hopper is at its desired level, all coins will be diverted to the Drop Chute and will go directly in the stand drop bucket. Tightening the wing nuts allows more coins to go into the Hopper before they are diverted to the drop. Loosening the wing nuts maintains the Hopper fill at a lower level.

The machine is now reacy for an operational check.

IMPORTANT

The coins-in switch on the door of the machine can be operated manually. However, extreme caution must be utilized to prevent the machine from going into a lock-up condition. One of the safety features of this machine is that the coin-in switch is tied to an adjustable electronic timer circuit. This circuit can be adjusted from a minimum of fifteen (15) milliseconds to a maximum of one (1) second. This circuit is pre-set at the factory to six hundred (600) milliseconds. If the coins-in switch is activated for more than six hundred (600) milliseconds the machine will automatically go into a lock-up condition. In the lock-up condition, the machine will appear to be accepting coins and operating normally. However, all pays will be locked out. The machine must be reset by activating the Reset

Key Switch, (see previous instructions). The adjustment for the electronic timer circuit is located on the front of the Logic Board and should not be changed from the factory set position until the logic description is fully understood.

Each time the coins-in switch is activated the number of coins played will be displayed on the front glass. The initial coin in will light the coin accepted light and release the handle release coil. After the fifth coin has been inserted, the coin lock out coil will release, and any further coins inserted will be returned to the player. The insert coin light will be extinguished after the insertion of the fifth coin.

After activating the coins-in switch manually, the reels of the reel assembly may be pre-set to a pay condition before pulling the handle. With the reels pre-set to a pay condition, manually hold the reels in place by holding the three reel release levers in their lock position and pull the handle. After approximately five seconds the reel drum motor will stop rotation and detection of pays will commence. If five coins have been played all pays as they appear on the individual pay lines will be payed consecutively starting with the first pay line and continuing in numerical order to the fifth pay line. It is possible for as many as four pays to appear on the five pay lines on this model. After the hopper has completed the pay for a particular pay line it will momentarily hesitate and then proceed to the next pay line. Therefore, only one pay condition should be pre-set for the initial pay checkout. After it has been determined that the Hopper is paying the appropriate number of coins for an individual pay, the multiple pays may be checked.

The Hopper is also equipped with an electronic timer control in the following manner.

1. If the Hopper Coin Switch is held in its up position for more than six hundred (600) milliseconds the machine will lock up and discontinue the pay cycle.
2. If no coins are detected by the Hopper Coin Switch, (empty Hopper condition), within fifteen (15) seconds of its activation the machine will lock up and discontinue operation.

If either of the above lock up conditions occur the machine must be reset by activating the Reset Key Switch momentarily to clear the electronic circuits.

This machine is equipped with total coins-in and total coins-out meters to record the number of coins played or payed. These meters are displayed on the right

hand side of the machine and may be read without opening the front door.

As optional equipment, a general play meter can be provided to count the number of handle pulls. It will be located on the back of the Cabinet in the upper right hand corner.

After the machine has been tested on several pay conditions and the proper number of coins have been dispensed, the machine is ready for operation.

JENNINGS MACHINES

400 SERIES

MAJOR COMPONENT FUNCTIONS

LOGIC CONTROL BOARD

The control system (logic) of this machine is composed of Integrated Circuits (IC's) of two family groups. These two groups are Transistor-Transistor Logic (TTL), and Complimentary Metal Oxide Semiconductors (CMOS). These IC's were arranged to provide all control functions of the machine and have been placed on one board. The one board concept provides easy replacement of all machine logic.

The interface of TTL & CMOS logic was employed to provide a high noise immunity to all logic functions. This prevents random or spurious noise from causing malfunctions.

Since other electro-mechanical devices such as solenoids, motors & meters are necessary, the logic is interfaced with Darlington drive transistors to provide the necessary 24VDC or 110VAC as required to solenoids, meters and motors.

The Logic Control Board also is designed to have a random generator system which will control the reel spin of the machine during the play cycle. The overall run time of each reel assembly is varied electronically with each play of the machine to insure proper symbol mixing action.

The Logic Control Board is also equipped with full memory capability. If a power outage or reduced power condition occurs, the machine will shut down and will remember its exact status so when proper power is again available it will continue its cycle from that point.

Several machine safety functions are also included on the Logic Control Board. If the coins-in switch or Hopper switch becomes inoperative due to malfunction or tampering, the machine will immediately go into a lock-up condition, so further pay or play of the machine is impossible.

If the Hopper is depleted of coins the Hopper motor is shut off after 15 seconds of operation and the machine is locked up.

Note: Any lock-up condition must be cleared with the Reset Key Switch after the trouble has been remedied.

REELS MECHANISM

A motor driven mechanism is utilized in this machine. Each of the three reel assemblies are independently driven by a clutch arrangement from the main motor shaft.

Each reel assembly is released and allowed to rotate when the reel stop lever is activated or disengaged by a 24VDC solenoid associated with each reel.

When the machine handle is pulled the Logic Board signals the three reel solenoids to activate and disengage the three reel stop levers and start the reel drive motor. The three stop levers are then released in a random interval sequence to provide reel stopping action. After all three reels have stopped the reel drive motor power of 115 volt, 50/60 cycle is removed. At this time each reel assembly supplies information to the Logic Control Board as to what symbols have been selected by the reel assembly. This information is routed through mechanical wiper assemblies associated with each reel assembly to provide position decode to the Mechanism Matrix Board. The Matrix Board then supplies symbol decoding information for the Logic Control Board.

HOPPER ASSEMBLY

The Hopper Assembly is controlled from the Logic Control Board and is driven by a 115 volt, 50/60 cycle motor. The payout disc assembly allows the pickup of coins from the hopper and mechanically feeds them under the hopper switch assembly so count information is obtained for processing by the Logic Control Board. Upon completion of a pay, as determined by the Logic Control Board, the 115 volt source to the hopper motor is removed.

POWER SUPPLY UNIT

The Power Supply to this machine is supplied by the Power Transformer which provides the following AC voltages 110VAC, 24VAC from two independent windings, and a 7.7VAC winding.

The power supply then rectifies and regulates these AC voltages to the following.

One 24VAC source is rectified to the 24VDC for the reel release solenoid power and handle release coil assembly.

The other 24VAC source provides voltage for all incandescent lamps in the machine such as coin display lamps and general illumination.

The 7.7 VAC is rectified to +10VDC and then regulated to +5VDC. The 5VDC is then used to power the Logic Control Board.

CONNECTOR BOARD (Mother Board)

To eliminate some of the cabling found in most machines a Mother Board arrangement is used. This board provides an inter-connection means from the Logic Control Board and all associated circuitry including power. To control alignment to the Logic Control Board the Mother Board is fastened to the back of the Card Rack Assembly.

HANDLE RELEASE SOLENOID

The Handle Release Solenoid is engaged from the Logic Control Board each time the first coin is inserted in the machine. When the Handle Release Solenoid is activated the Coin Accepted light on the Front Door will be lit.

IN & OUT METERS

The In & Out Meters are driven from a 24VDC source and are controlled from the Logic Control Board. Each coin, in or out of the machine is registered on the meters.

ELECTRICAL RESETTABLE COUNTER

This counter is supplied to monitor each pay of the machine. In case of multiple win combinations a cumulative total is displayed. The meter automatically resets to zero on the next play cycle of the machine.

OPTIONAL EQUIPMENT

BELL and/or CANDLE: The Bell and/or Candle is used to indicate jackpot amounts exceeding 50 coins and will be extinguished at the end of the pay. In case a hand paid jackpot is necessary (a maximum of 200 coins will be paid by the machine), the Bell and/or Candle will remain on until the machine is reset. (Upon request this option may vary to meet specific customer requirements.)

ADDITIONAL OPTIONS

Additional machine options are available on request. To check your specific requirements contact your authorized distributor or salesman.

JENNINGS MACHINES

400 SERIES

LUBRICATION INSTRUCTIONS

The Jennings 400 Series machine has been designed so very little lubrication is required.

The Mechanism Assembly requires no lubrication since oilite bearings are used throughout.

All motors are lubricated at the time of manufacture and are then sealed.

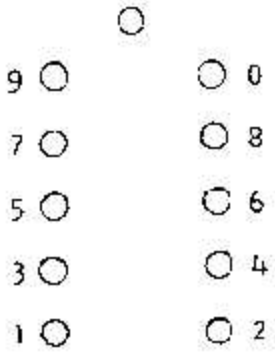
The handle assembly should be lubricated with Chevron OHT grease through the outside zerk fitting every six (6) months.

A small amount of this same lubricant should be applied to the handle ratchet assembly and the handle latch lever assembly at the same time.

WIRING TABLES

Pin to Pin Connections and Wire Colors

CONNECTION, MATRIX BOARD TO REEL ASSEMBLY



CONNECTOR, MATRIX BOARD
(TOP VIEW)

PIN NO.	FUNCTION	WIRE COLOR
1	SOLID STATE RELAY -	BLUE
2	110 V	WHITE
3	SOLID STATE RELAY +	PURPLE
4	110 V	WHITE
5	+24V RIGHT RELEASE	RED
6	RIGHT RELEASE COIL	BROWN
7	+24V CENTER RELEASE	RED
8	CENTER RELEASE COIL	GREY
9	+24V LEFT RELEASE	RED
0	LEFT RELEASE COIL	YELLOW

CONNECTOR FOR HOPPER AND POWER SUPPLY

PIN	NO.	FUNCTION	WIRE COLOR
A	1	+24V COILS	RED
	3	+5V	RED/BLACK
	5	GROUND	BLACK
	13	SOLID STATE RELAY +	RED/BLUE
	15	HOPPER SW. COM.	YELLOW/BLACK
	17	GROUND	BLACK
	19	COIN LOCK SW.	BLUE
	27	+24V COILS	RED
	29	110V-A	WHITE
	31	110V-B	WHITE/BLUE
C	2	+24V COILS	RED
	4	8-12 V FOR POWER FAIL	YELLOW
	12	SOLID STATE RELAY -	WHITE/GREEN
	14	HOPPER SW. N.O.	YELLOW/BLUE
	16	HOPPER SW. N.C.	YELLOW/BROWN
	18	GROUND	BLACK
	20	COIN LOCK SW.	BLUE
	22	+24V LAMPS	RED/GREEN
	28	+24V COILS	RED
	20	110V-A	WHITE
	32	110V-B	WHITE/BLUE

CONNECTOR FOR KEY SWITCH, HANDLE SW., COUNTERS

PIN	NO.	FUNCTION	WIRE COLOR
A	1	GROUND	BLACK
	3	RESET PA10 OUT	WHITE/BLUE
	7	KEY SW. N.O.	YELLOW/BLACK
	9	KEY SW. N.C. (GROUND)	BLACK/RED
	11	KEY SW. COMMON	YELLOW
	13	HANDLE SW. N.C.	GREY/BLACK
	15	HANDLE COIL	GREY/BROWN
	29	+24V HANDLE COIL	RED/GREEN
	31	+24V TOTAL OUT & RESET	RED/BLACK
C	4	COUNTER-TOTAL OUT	WHITE/GREEN
	8	BELL	WHITE
	10	HANDLE SW. N.C. (GROUND)	BLACK/GREY
	12	COUNTER-TOTAL IN	WHITE/BROWN
	14	HANDLE SW. COM.	GREY
	16	COUNTER-HANDLE	WHITE/RED
	28	+24V-TOTAL IN	RED/BLUE
	30	+24V-BELL	RED/YELLOW
	32	+24V -HANDLE COUNTER	RED/WHITE

CONNECTOR-DOOR

PIN	NO.	FUNCTION	WIRE-COLOR
A	3	LAMP 2	YELLOW 1
	5	LAMP 4	BLACK 1
	15	COIN ACCEPTED	BLUE 2
	17	COIN SW. N.C.	YELLOW 2
	21	GROUND	ORANGE 1
	23	COIN LOCK COIL	BLACK 2
	29	110V-A	BROWN 2
	31	110V-A	ORANGE 2
C	2	LAMP 1	RED 1
	4	LAMP 3	GREEN 1
	6	LAMP 5	GREY 1
	8	INSERT COIN & COIN LOCKOUT	BROWN 1
	10	+24V LAMPS	WHITE 1
	12	+24V LAMPS	BLUE 1
	14	WINNER PAID	WHITE 2
	16	COIN SW. COM.	RED 2
	18	COIN SW. N.C. (GROUND)	GREEN 2
	20	GROUND	PURPLE 1
	22	COIN LOCK COIL	GREY 2
	30	110V-B	PURPLE 2
	32	110V-B	WHITE 3

THE MULTICABLE WHICH IS USED FOR THE DOOR CONNECTOR AND THE CONNECTION BETWEEN THE MOTHERBOARD AND MATRIX BOARD IS NUMBERED AS FOLLOWS:

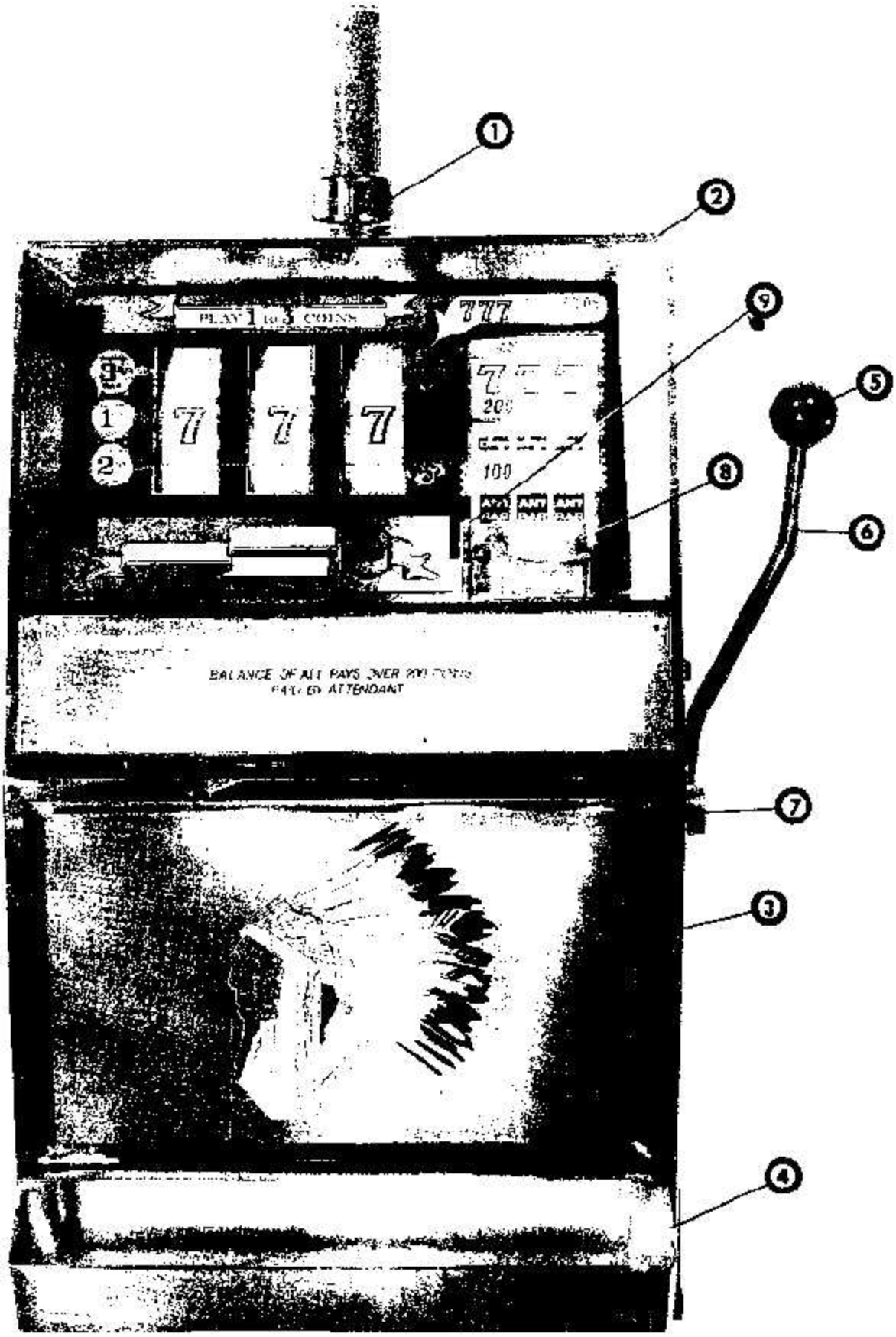
WHITE	1
BLUE	1
RED	1
YELLOW	1
GREEN	1
BLACK	1
GREY	1
BROWN	1
ORANGE	1
PURPLE	1
WHITE	2
BLUE	2
RED	2
YELLOW	2
GREEN	2
BLACK	2
GREY	2
BROWN	2
ORANGE	2
PURPLE	2
WHITE	3
BLUE	3

CONNECTOR-MATRIX BOARD

PIN NO.		FUNCTION
A	1	LEFT RELEASE
A	2	CENTER RELEASE
A	30	I BAR 3
A	31	I BAR 1
A	32	I BAR 2
C	1	110V
C	2	110V
C	3	SOLID STATE RELAY -
C	4	SOLID STATE RELAY +
C	5	RIGHT RELEASE
C	6	+24V COILS
C	7	CENTER DISC CENTERLINE
C	8	LEFT & RIGHT DISC CENTERLINE
C	9	RIGHT DISC BOTTOMLINE
C	10	RIGHT DISC TOPLINE
C	11	111 ORANGE
C	12	111 PLUM
C	13	111 BELL
C	14	111 BAR 1
C	15	111 BAR 2
C	16	111 BAR 3
C	17	GROUND
C	18	CENTER DISC TOPLINE
C	19	CENTER DISC BOTTOMLINE
C	20	11 CHERRY
C	21	11 ORANGE
C	22	11 PLUM
C	23	11 BELL
C	24	11 BAR 1
C	25	11 BAR 2
C	26	11 BAR 3
C	27	LEFT DISC TOPLINE
C	28	LEFT DISC BOTTOMLINE
C	29	1 CHERRY
C	30	1 ORANGE
C	31	1 PLUM
C	32	1 BELL

MOTHER BOARD-CONNECTOR TO MATRIX BOARD

PIN	NO.	FUNCTION
A	1	110V-A
A	2	110V-B
A	3	+24V COILS
A	10	111 BELL
A	11	1 PLUM
A	12	11 PLUM
A	13	111 PLUM
A	14	11 ORANGE
A	15	1 ORANGE
A	16	111 ORANGE
A	17	11 CHERRY
A	18	1 CHERRY
A	19	111 BAR 3
A	20	111 BAR 1
A	21	111 BAR 2
A	22	1 BELL
A	23	11 BELL
A	24	1 BAR 3
A	25	1 BAR 2
A	26	1 BAR 1
A	27	11 BAR 3
A	28	11 BAR 1
A	29	11 BAR 2
A	31	SOLID STATE RELAY -
A	32	GROUND
C	1	110V-A
C	2	110V-B
C	3	+24V COILS
C	4	CENTER DISC BOTTOMLINE
C	5	CENTER DISC TOPLINE
C	6	CENTER DISC CENTERLINE
C	7	LEFT DISC TOPLINE
C	8	RIGHT DISC BOTTOMLINE
C	9	RIGHT DISC CENTERLINE
C	10	LEFT DISC CENTERLINE
C	11	RIGHT DISC TOPLINE
C	12	LEFT DISC BOTTOMLINE
C	13	LEFT RELEASE COIL
C	14	CENTER RELEASE COIL
C	15	RIGHT RELEASE COIL
C	16	SOLID STATE RELAY +
C	32	GROUND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PLAY 1 to 5 COINS
BALANCE OF ALL PAYS OVER 20 COINS
PAID BY ATTENDANT

INDEX	PART NO.	DESCRIPTION	NO. REQ.	EACH.
1	12-09-1	CANDLE ASSEM.	AS REQ.	$21.95
2	13-068C	REEL FRAME ASSEM.	1	60.00
3	32-055	LOWER DISPLAY CASTING	1	46.90
4	32-056	MONEY BOWL	1	56.50
5	51-02-2	HANDLE BALL (RED)	1	3.75
5	51-02-1	HANDLE BALL (BLACK)	1	3.75
6	33-054	HANDLE SHAFT	1	8.00
7	33-053	HANDLE HUB	1	7.00
8	12-02-1	COIN ENTRY ASSEM. (10¢)		18.35
	12-02-2	COIN ENTRY ASSEM. (5¢)		18.35
	12-02-3	COIN ENTRY ASSEM. (25¢)		18.35
	IF OTHER THAN ABOVE PLEASE SPECIFY BY COINAGE			
9	13-132	REJECT PLUNGER ASSEM.	1	2.95

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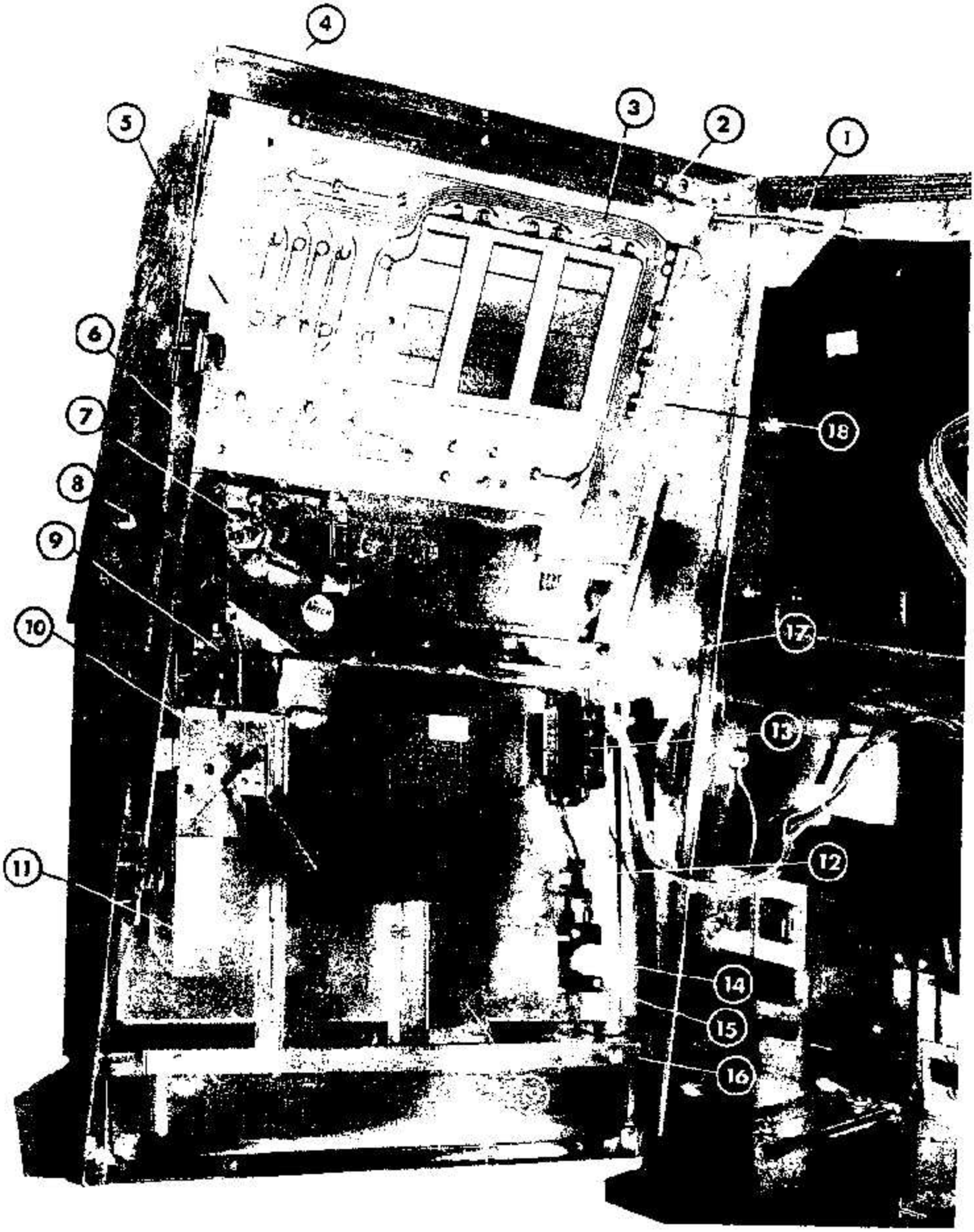
INDEX	PART NO.	DESCRIPTION	NO. REQ.	EACH
1	72-051	CAPACITOR	1	$ 2.00
2	63-01-2	AMBER LAMP	1	1.75
3	63-059	FUSE HOLDER	1	7.50
4	73-051	VOLTAGE REGULATOR	1	5.45
5	61-01-1	SOLID STATE RELAY	1	27.26
6	33-085	MECH. BASE GUIDE	4	.30
7	31-075	CAB. DOOR STOP BRACKET	1	.92
8	65-060	BELL	AS REQ.	17.50
9	64-057	SWITCH	1	3.43
10	37-051	KEY LOCK	1	3.90
	37-11-1	CAM	1	
11	65-053	METER (IN OR OUT)	2	4.85
12	12-051	PUMP ASSEM.	1	21.00
13	12-089	HANDLE RELEASE COIL ASSEM.	1	13.54
14	64-058	TOGGLE SWITCH	1	7.95
15	12-059	HANDLE RATCHET ASSEM.	1	32.65
	36-01-8	PAWL SPRING (NOT SHOWN)	1	.33
16	13-052	PUMP LEVER ASSEM.	1	8.55
17	36-01-15	HANDLE RETURN SPRING	1	.59
18	55-051	RUBBER BUMPER	1	.12
19	36-01-16	PUMP RETURN SPRING	1	.80
20	64-057	HANDLE SWITCH	1	3.43
	63-051	FUSE 5 AMP 110V (NOT SHOWN)	1	.14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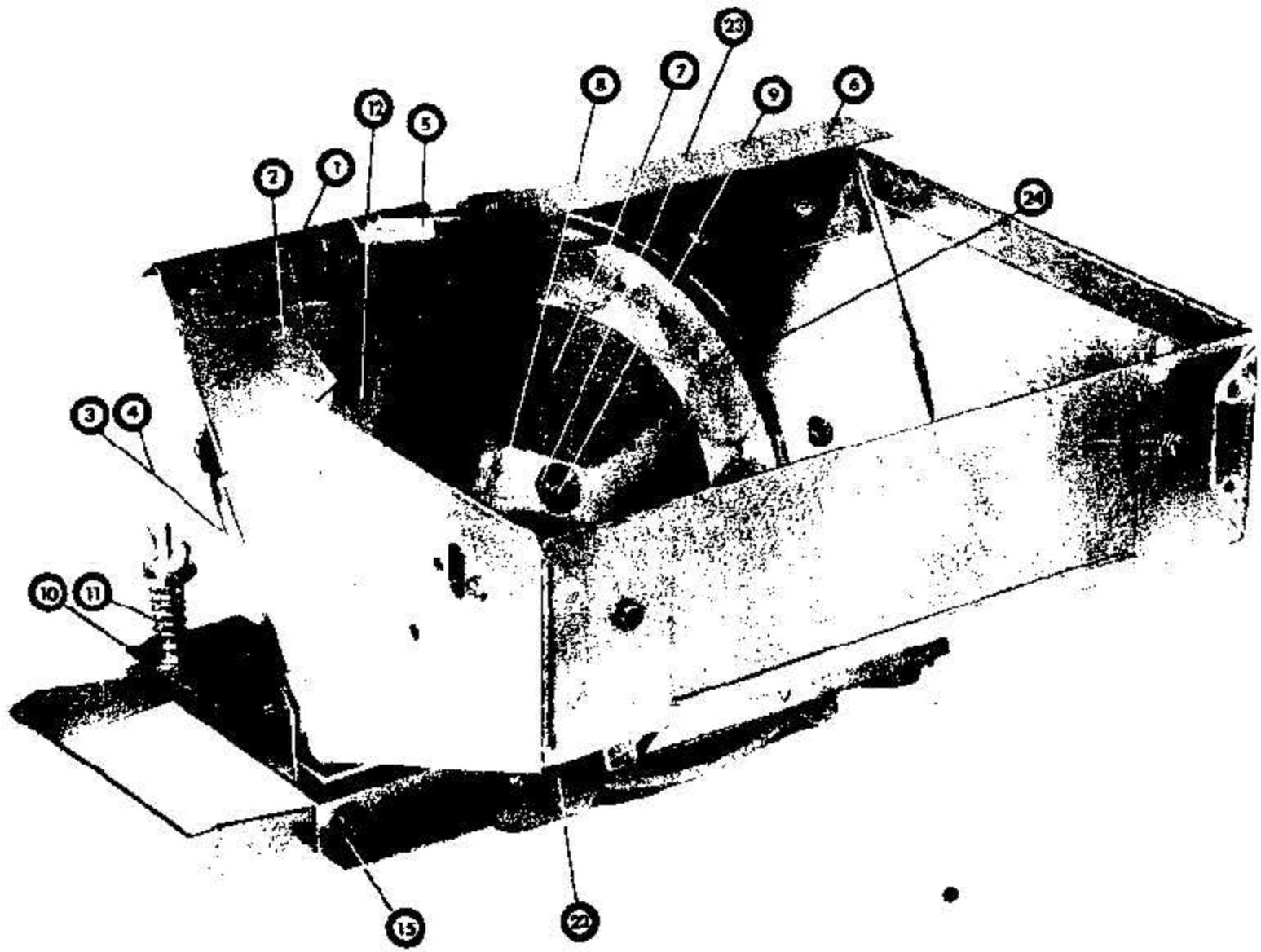
INDEX	PART NO.	DESCRIPTION	NO. REQ.	EACH
1	36-051	DOOR CHECK ROD	1	$ .65
2	31-142	CHECK ROD BRACKET	1	.79
3	12-096	DISPLAY ASSEM. 5-LINE		78.75
	12-097	" " 3-LINE		78.75
	12-094	" " 5-COIN MULTIPLIER		78.75
	12-095	" " 3-COIN MULTIPLIER		78.75
	12-098	" " SINGLE COIN		78.75
4	14-056	FRONT DOOR ASSEM. (SHELL)	1	58.20
5	14-057	LOCKING BAR ASSEM.	1	3.95
6	38-01-103	COIN ACCEPTOR (5¢)		13.50
	38-01-104	COIN ACCEPTOR (10¢)		13.50
	38-01-105	COIN ACCEPTOR (25¢)		13.50
FOR OTHER COINAGE PLEASE SPECIFY BY COINAGE				
7	12-01	ACCEPTOR CHANNEL	1	15.30
8	37-051	LOCK (GEM)	1	6.24
9	64-01	COIN SWITCH	1	3.95
10	12-064	COIN DIVERTER ASSEM.	1	35.35
11	14-061	COIN RETURN CHUTE	1	1.95
12	63-053	FLUORESCENT LAMP HOLDER	2	1.25
	63-052	FLUORESCENT LAMP (NOT SHOWN)	1	4.98
13	61-052	BALLAST	1	1.35
14	63-057	STARTER	1	1.80
15	63-055	STARTER SOCKET	1	.36
16	31-140	MONEY BOWL COVER	1	4.05
17	31-144	WIRE GUARD	1	2.43
18	63-060	MINIATURE LAMP	PER MACHINE MODEL	.51
19	31-152	PAYOUT CHUTE	1	2.49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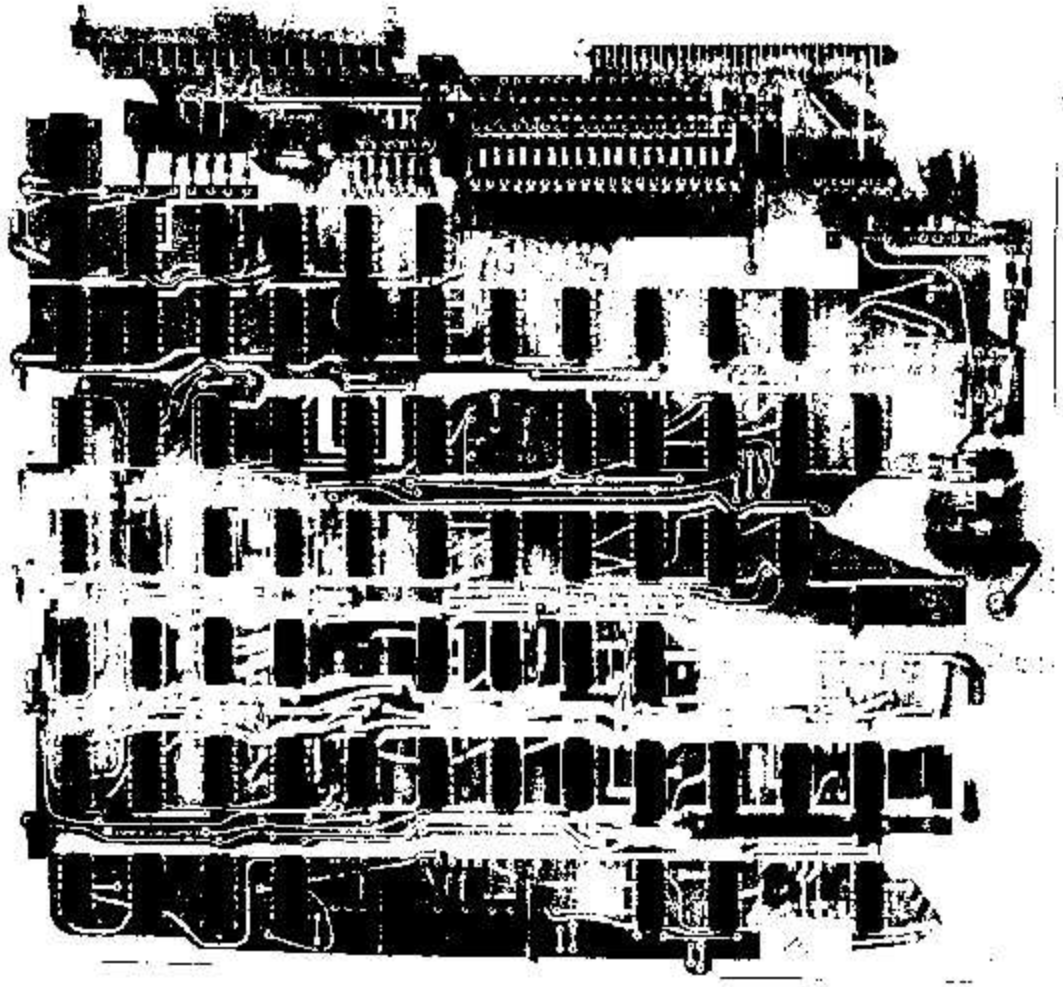
INDEX	PART NO.	DESCRIPTION	NO. REQ.	EACH
1	31-121	GUIDE	1	$ .98
2	31-122	UPPER GUIDE	1	.75
3	31-123	SHIM	AS REQ.	.20
4	31-124	SHIM	AS REQ.	.20
5	31-126	UPPER COIN GUARD	1	.55
6	31-125	COIN GUARD	1	.59
7	31-127	COIN GAGE DISC (PER DENOMINATION)	1	.03
8	31-128	AGITATOR	1	.08
9	33-07-2	SHOULDER SCREW	1	.25
10	33-089	SPRING SEAT	2	.57
11	36-02-6	COMPRESSION SPRING	1	.12
12	35-01-1	KNIFE (10¢)		1 .45
	35-01-2	KNIFE (5¢ & 25¢)		1 .45
13-14	SEE NEXT PHOTO			
15	92-05-1	RETAING RING	2	.25
16-21	SEE NEXT PHOTO			
22	36-01-5	EXTENSION SPRING	2	.42
23	36-052	SPRING WASHER	AS REQ.	.39
24		DISC & STUD ASSEM.		

INDEX	PART NO.	DESCRIPTION	NO. REQ.	EACH
13	62-051	PAYOUT MOTOR	1	$44.98
14	92-02-3	HAIRPIN	2	.06
15	SEE PREVIOUS PHOTO			
16	13-083	SWITCH BRACKET ASSEM.	1	1.63
17	12-066	SWITCH LEVER ASSEM.	1	6.05
18	92-03-4	'E' RING	1	.15
19	64-057	SWITCH	1	3.49
20	13-106	PLUG MOUNTING BRACKET ASSEM.	1	4.75
21	64-052	SWITCH	1	4.50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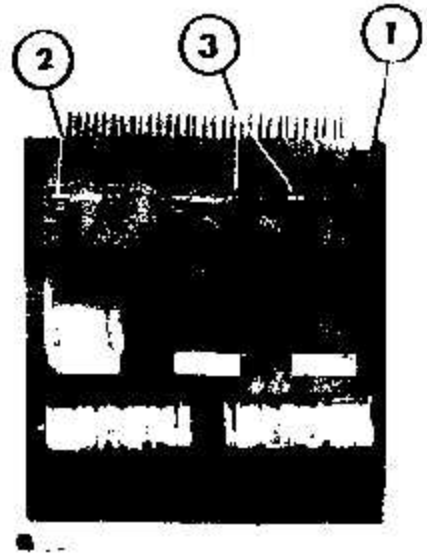
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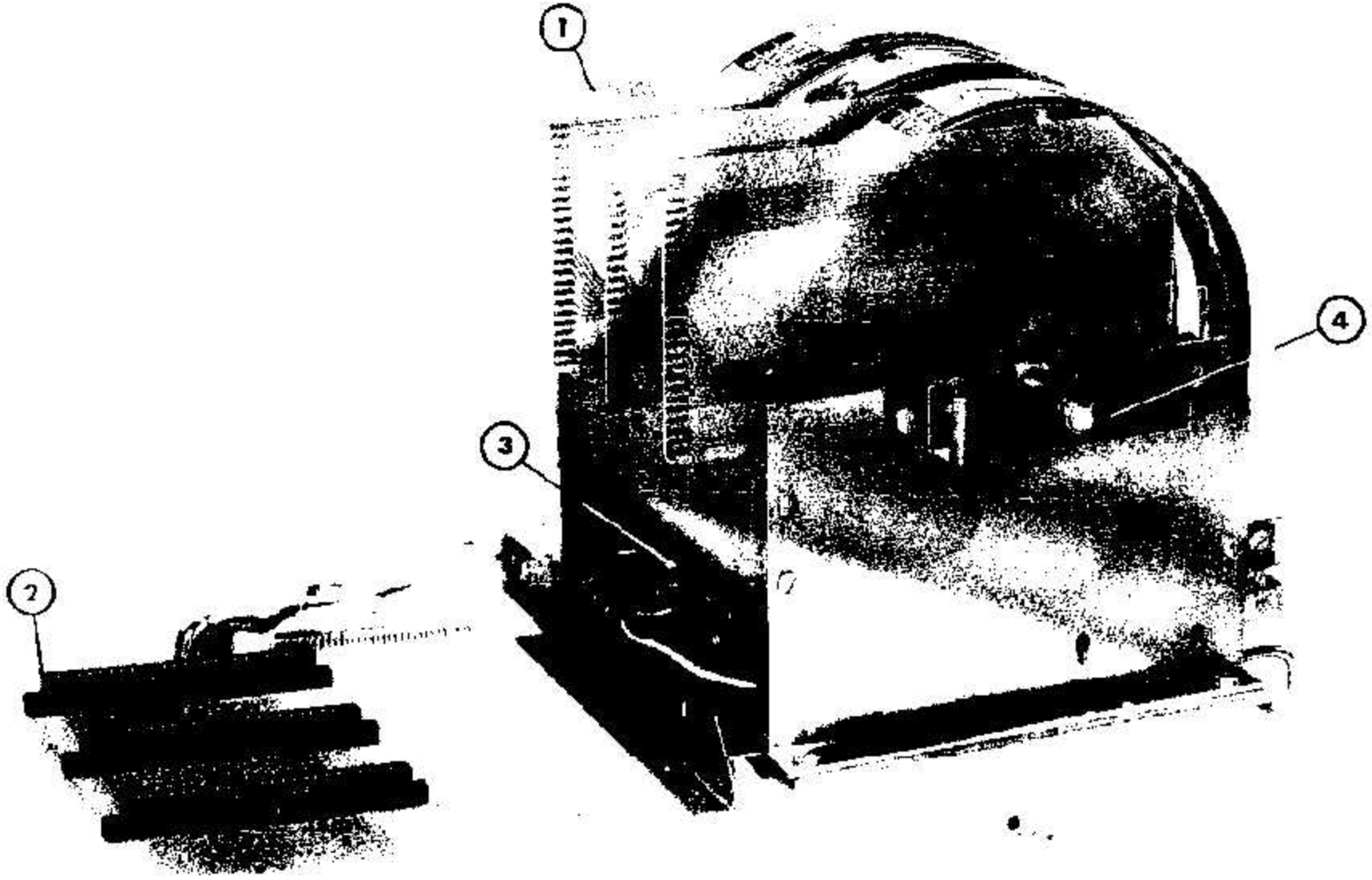
INDEX	PART NO.	DESCRIPTION	NO. REQ.	EACH
1	17-087	POWER SUPPLY BOARD	1	$ 45.00
2	63-068	FUSE 2 AMP (GMA-2)	1	.53
3	63-067	FUSE 8 AMP (GMA-8)	2	1.00
4	17-85-xx	LOGIC BOARD ASSEM.	1	340.00

IN ORDERING EXCHANGE LOGIC BOARDS, PLEASE DESIGNATE MACHINE SERIAL NUMBER AND LOGIC BOARD SERIAL NUMBER.
ie: 5-LINE MACHINE, SERIAL #10068, LOGIC BOARD SERIAL #D138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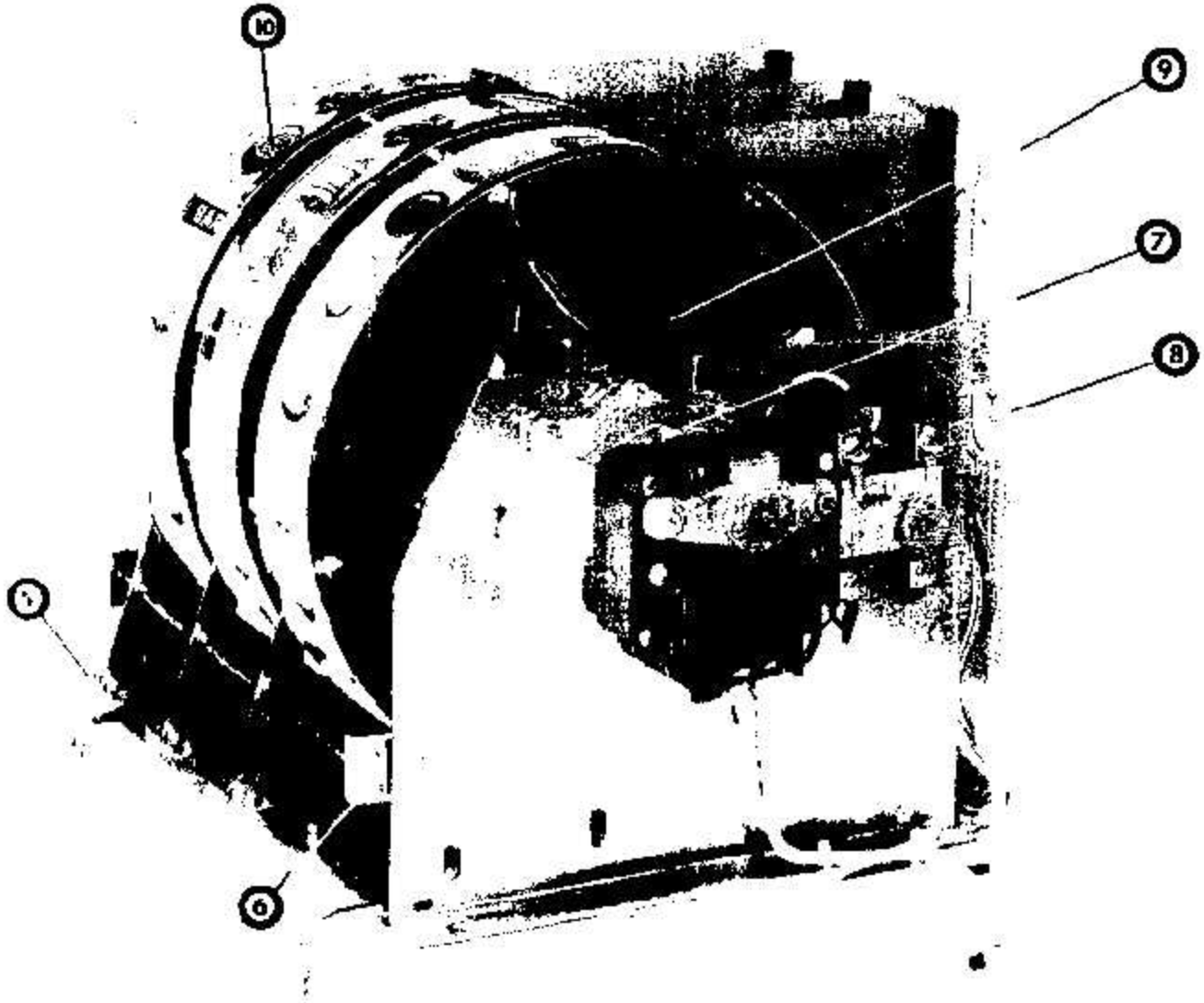
INDEX	PART NO.	DESCRIPTION	NO. REQ.	EACH
1	17-057	CONTACT PLATE ASSEM.	3	$ 9.65
2	17-86-xx	MATRIX BOARD ASSEM. (PER REEL STRIPS) ORDER PER MACHINE SERIAL NO.	1	144.72
3	16-099	SOLENOID & PLUNGER ASSEM.	3	4.40
4	13-078	END BRACKET ASSEM.	1	2.04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INDEX	PART NO.	DESCRIPTION	NO. REQ.	EACH
5	13-084	REEL STOP ASSEM.	3	2.75
6	36-01-11	EXTENSION SPRING	3	.38
7	62-053	REEL MOTOR	1	20.70
8	61-01-1	SOLID STATE RELAY	1	27.26
9	13-091	ROTARY DISC ASSEM.	3	16.25
10		REEL STRIPS (PART NO. IS ON BOTTOM OF EACH REEL STRIP.)	3	PER QUOTE