

| | | | | | |
|-----|----|--------|-----|--------|--------------------------|
| 1DE | 2 | A-7100 | NO. | 2A | START RELAY |
| 1ZE | T | A-9742 | AB. | 1B | TIPT RELAY |
| 1BE | U | A-9735 | AB. | 4A | CONTROL BANK RESET RELAY |
| 1BE | V | A-9740 | AB. | 2A | REPLAY BUTTON RELAY |
| 1BE | W | A-9740 | AB. | 2A, 2B | 2ND. CHUTE RELAY |
| 3E | AZ | A-400 | AB. | 2A | BALL KICKER GATE RELAY |
| 3E | BX | A-400 | AB. | 2A | BALL SHOOTER GATE RELAY |
| 3E | CX | A-9740 | AB. | 2A | DOUBLE BONUS RELAY |

"CONTROL BANK"

| INDEX NO. | COIL NO. | CONTACTS | USE |
|-----------|----------|----------|------------|
| 1BE | LB | A-1118 | 2A, 1B |
| 1SE | PB | A-1118 | 2A, 2B |
| 1BE | ZB | A-1118 | 2A, 1B, 1C |
| 1BE | OB | A-1118 | 1A, 2B, 1C |
| 1BE | XB | A-1118 | 2A, 1B |
| 1SE | SB1 | NO COIL | 2A, 1B, 1C |
| 1SE | SB2 | A-1118 | 2A, 2B |

"DUMPER COILS USER"

| INDEX | COIL NO. | DESCRIPTION |
|--------|----------|---------------------------|
| 1E | A-5141 | FLIPPER COILS |
| 1E | A-5194 | KICKING RUBBER COILS |
| 2E | A-4993 | POP BUMPER COILS |
| 3E | A-5195 | CHIME COILS |
| 11E | A-1495 | ADD REPLAY UNIT COIL |
| 1SE | A-5194 | SUBTRACT REPLAY UNIT COIL |
| 13-14E | A-9154 | SCORING UNIT COILS |
| 1SE | A-1495 | ADD BONUS UNIT COIL |
| 1SE | A-5194 | SUBTRACT BONUS UNIT COIL |
| 1SE | A-5194 | KNOCKER COIL |
| 1BE | A-4993 | BALL KICKER COIL |
| 1BE | A-1495 | BALL RETURN COIL |
| 17E | A-1495 | AND PLAYER UNIT COIL |
| 1BE | A-7877 | COIN LOCKOUT COIL |
| 191 | A-5196 | TARGET BANK RESET COILS |
| 191 | A-9479 | CONTROL BANK RESET COIL |

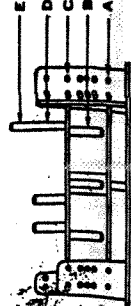
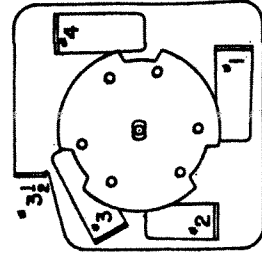
"WORD ABBREVIATIONS"

R.O. - ROLLOVER
 POS. - POSITION
 SW. - SWITCH
 SUBT. - SUBTRACT
 ADJ. - ADJUSTABLE
 SPEC. - SPECIAL
 SEQ. - SEQUENCE

"COLOR CODE ABBREVIATIONS"
 BL - BLUE
 BR - BROWN
 BLK - BLACK
 GR - GREEN
 OR - ORANGE

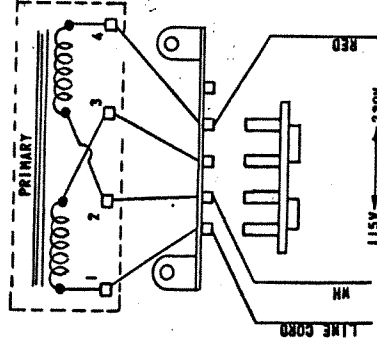
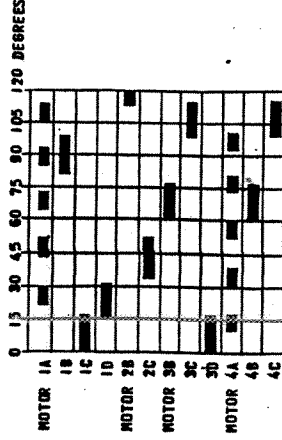
EXAMPLE:
 BL-WH - BLUE WITH A WHITE TRACER
 BL & WH - BLUE AND WHITE MOTTLED

MOTOR SWITCH POSITIONS



| POSITION | A | B | C | D | E |
|----------|----------------|--------------------|--------------------|----|---|
| *1 | 3A *5° POS. | 2A | 1A, 5B *5° POS. | 1A | |
| *2 | | 2B | 2A, 1B *1° POS. | | |
| *3 | | 1A | 2A *5° POS. | 1B | |
| *4 | 1A *5° POS. | 2A, 1B *5° POS. | | | |

MOTOR SEQUENCE CHART

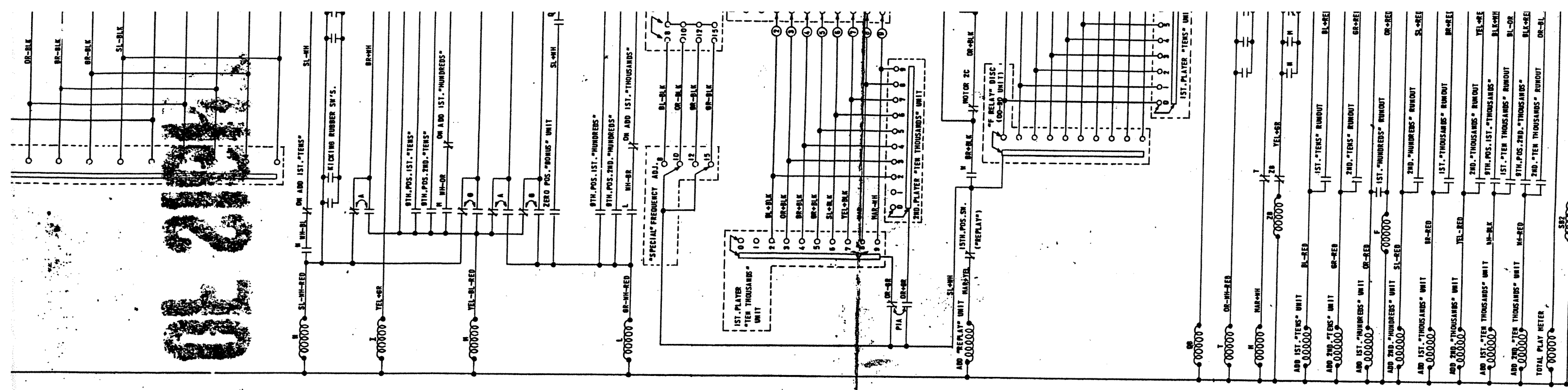
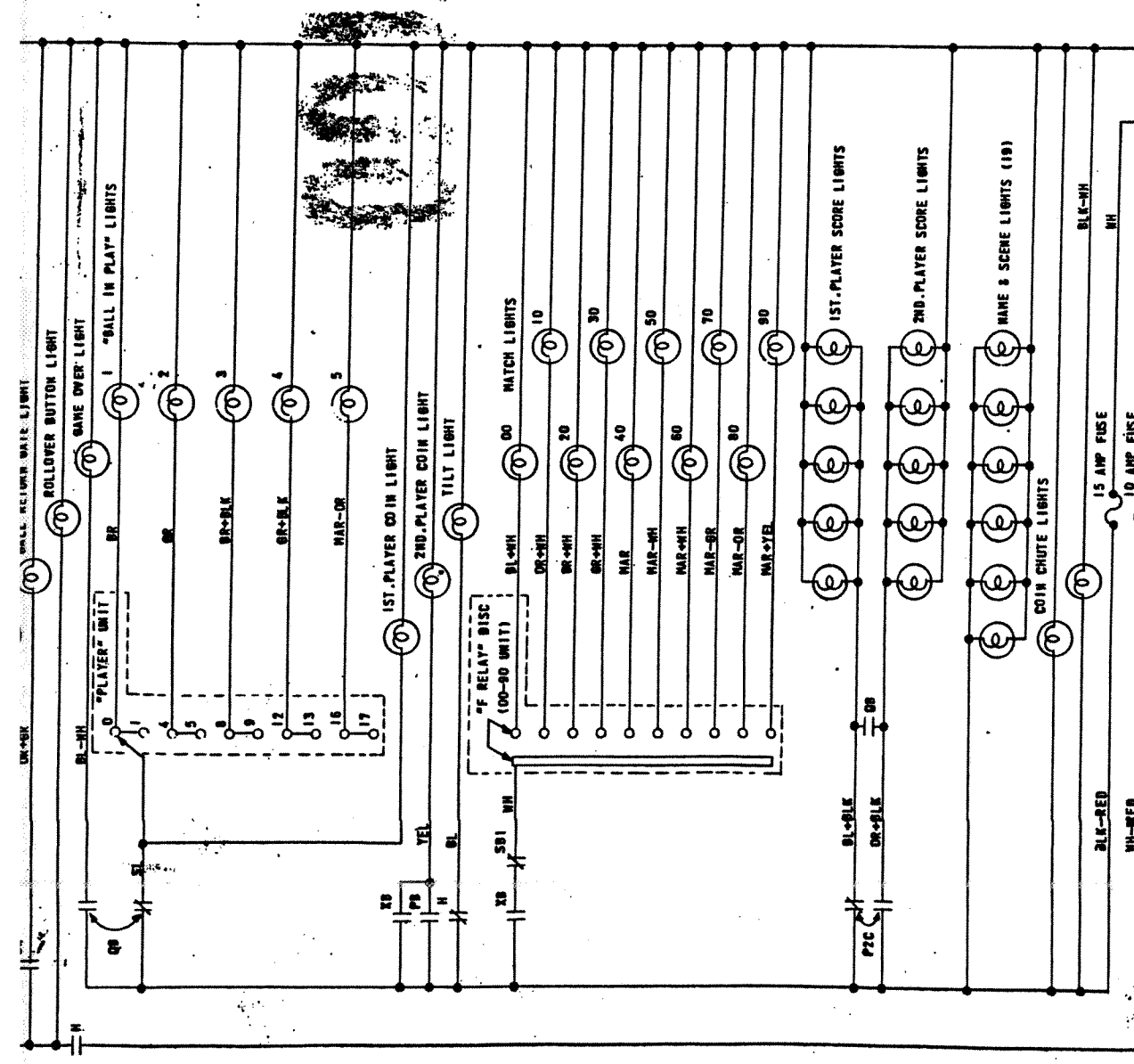


NOTE: CIRCUIT IS DRAWN WITH MACHINE RESET, READY FOR 1ST. PLAYER TO SHOOT 1ST. BALL AND LINE CORD UNPLUGGED. DUE TO CIRCUMSTANCES BEYOND OUR CONTROL IT MAY BE NECESSARY TO SUBSTITUTE WIRES OF DIFFERENT COLORS.

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168 W. LAKE ST.
 NORTHLAKE, ILL. 60164



"RELAYS"

| INDEX NO. | COIL NO. | TYPE | CONTACTS | USE |
|-----------|----------|------|------------|---|
| 1E | A-9740 | AB. | 5C | ALTERNATING RELAY |
| 2E | A-9735 | AB. | 5A | RIGHT & LEFT POP BUMPER RELAY |
| 3E | A-9735 | AB. | 3A | CENTER POP BUMPER RELAY |
| 4E | A-9735 | AB. | 2A | 50 POINT RELAY |
| 5E | A-9735 | AB. | 4A, 1B | 500 POINT & ADD BONUS UNIT RELAY |
| 6E | A-489 | AS. | 2 DISC | 00-90 UNIT RELAY |
| 7E | A-9735 | AB. | 2A, 2C | 10X TARGET VALUE & ADD BONUS UNIT RELAY |
| 8E | A-9735 | AB. | 1A, 1B, 1C | TILT HOLD RELAY |
| 9E | A-489 | AS. | 4A | BALL KICKER RELAY |
| 10E | A-9735 | AB. | 7A | 1000 POINT RELAY |
| 11E | A-9735 | AB. | 6A | 100 POINT RELAY |
| 12E | A-9735 | AB. | 8A | 10 POINT RELAY |
| 13E | A-9735 | AB. | 9A | OUT-HOLE RELAY |
| 14E | A-9735 | AB. | 3A, 1B, 1C | ADD PLAYER UNIT RELAY |
| 15E | A-9735 | AB. | 4A, 1B | BONUS SCORE RELAY |
| 16E | A-9735 | AB. | 1A, 1B, 1C | HOLD RELAY |
| 17E | A-9740 | AB. | 5A | START RELAY |
| 18E | A-9740 | AB. | 1B | TILT RELAY |
| 19E | A-9740 | AB. | 4A | CONTROL BANK RESET RELAY |
| 20E | A-9740 | AB. | 2A | REPLAY BUTTON RELAY |
| 21E | A-489 | AS. | 2A | 2ND-CHUTE RELAY |
| 22E | A-9740 | AB. | 3A, 2B | BALL SHOOTER GATE RELAY |
| 23E | A-489 | AS. | 2A | BALL SHOOTER GATE RELAY |
| 24E | A-9740 | AB. | 2A | DOUBLE BONUS RELAY |

"CONTROL BANK"

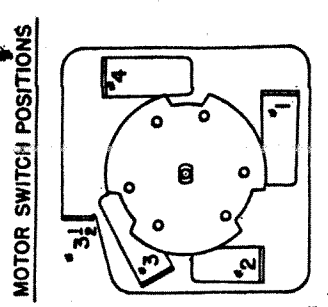
| INDEX NO. | COIL NO. | CONTACTS | USE |
|-----------|----------|------------|------------------------|
| 15E | A-1118 | 2A, 1B | DOUBLE BONUS RELAY |
| 16E | A-1118 | 2A, 2B | 2ND-PLAYER RELAY |
| 17E | A-1118 | 2A, 1B, 1C | 1ST-BALL RELAY |
| 18E | A-1118 | 1A, 2B, 1C | GAME OVER RELAY |
| 19E | A-1118 | 3A, 1B | LAST BALL RELAY |
| 20E | A-1118 | 2A, 1B, 1C | RESET CONTROL SWITCHES |
| 21E | A-1118 | 2A, 2B | RESET CONTROL RELAY |

"OTHER COILS USED"

| INDEX NO. | COIL NO. | DESCRIPTION |
|-----------|----------|---------------------------|
| 1E | A-5141 | FLIPPER COILS |
| 2E | A-5194 | KICKING RUBBER COILS |
| 3E | A-4893 | POP BUMPER COILS |
| 4E | A-5195 | CHIME COILS |
| 5E | A-1496 | ADD REPLAY UNIT COIL |
| 6E | A-5194 | SUBTRACT REPLAY UNIT COIL |
| 7E | A-1496 | SCORING UNIT COILS |
| 8E | A-5194 | ADD BONUS UNIT COIL |
| 9E | A-5194 | SUBTRACT BONUS UNIT COIL |
| 10E | A-4893 | KICKER COIL |
| 11E | A-1496 | BALL KICKER COIL |
| 12E | A-1496 | BALL RETURN COIL |
| 13E | A-5194 | ADD PLAYER UNIT COIL |
| 14E | A-5194 | COIN LOCKOUT COIL |
| 15E | A-5106 | TARGET BANK RESET COILS |
| 16E | A-5194 | CONTROL BANK RESET COIL |

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ILLUMINATION LIGHTS (14)

D

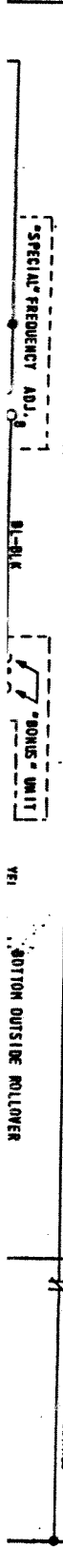
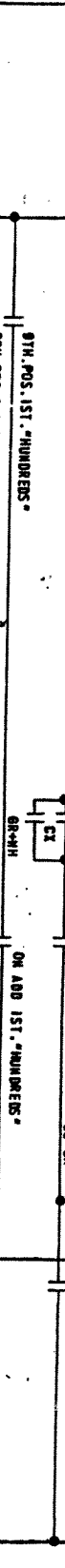
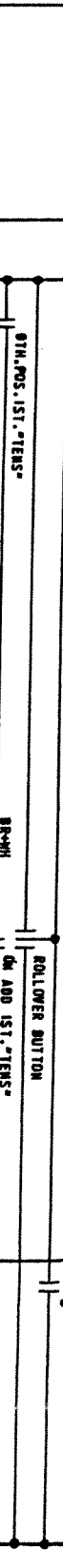
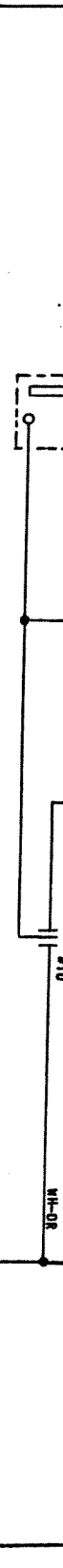
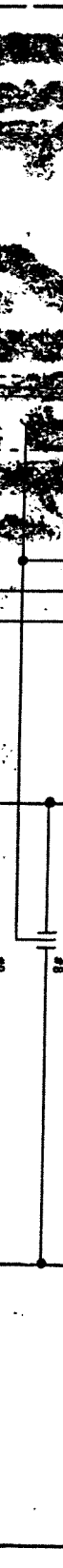
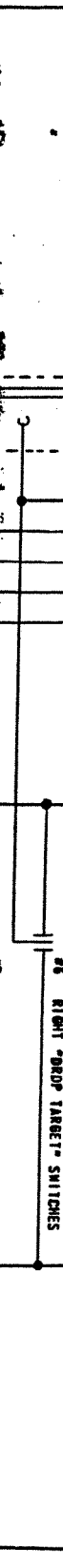
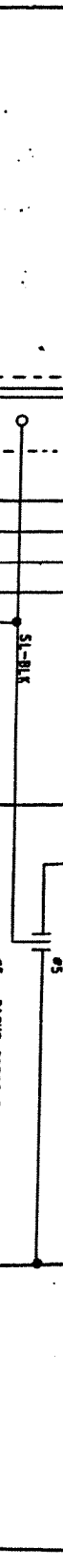
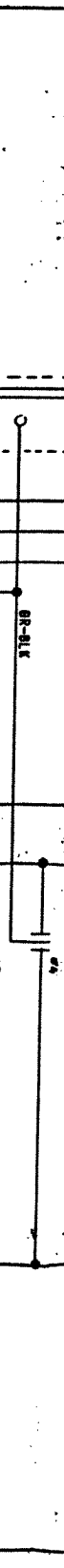
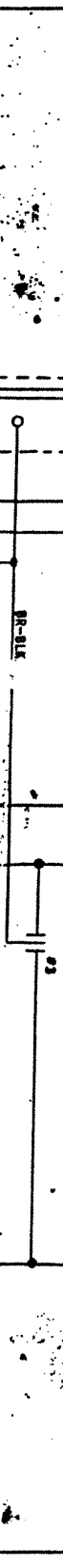
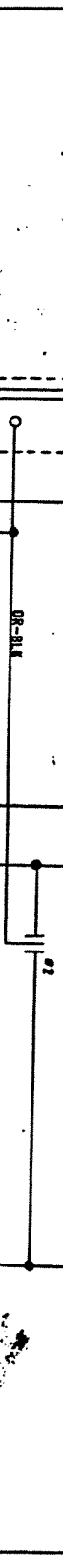
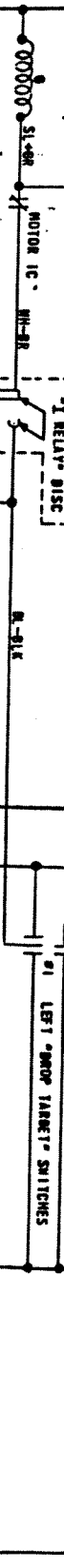
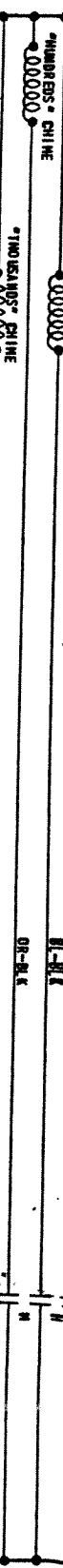
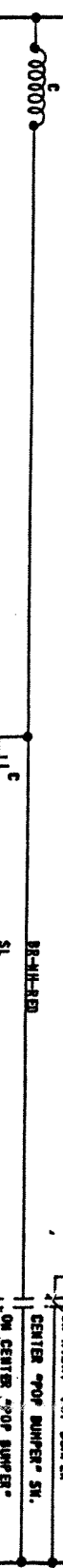
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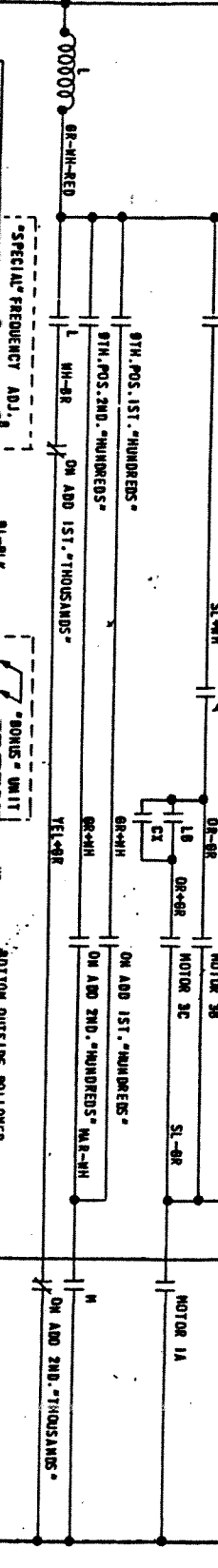
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SCORE LIGHTS (18)



SPECIAL FREQUENCY ADJ. and "SOUND" UNIT

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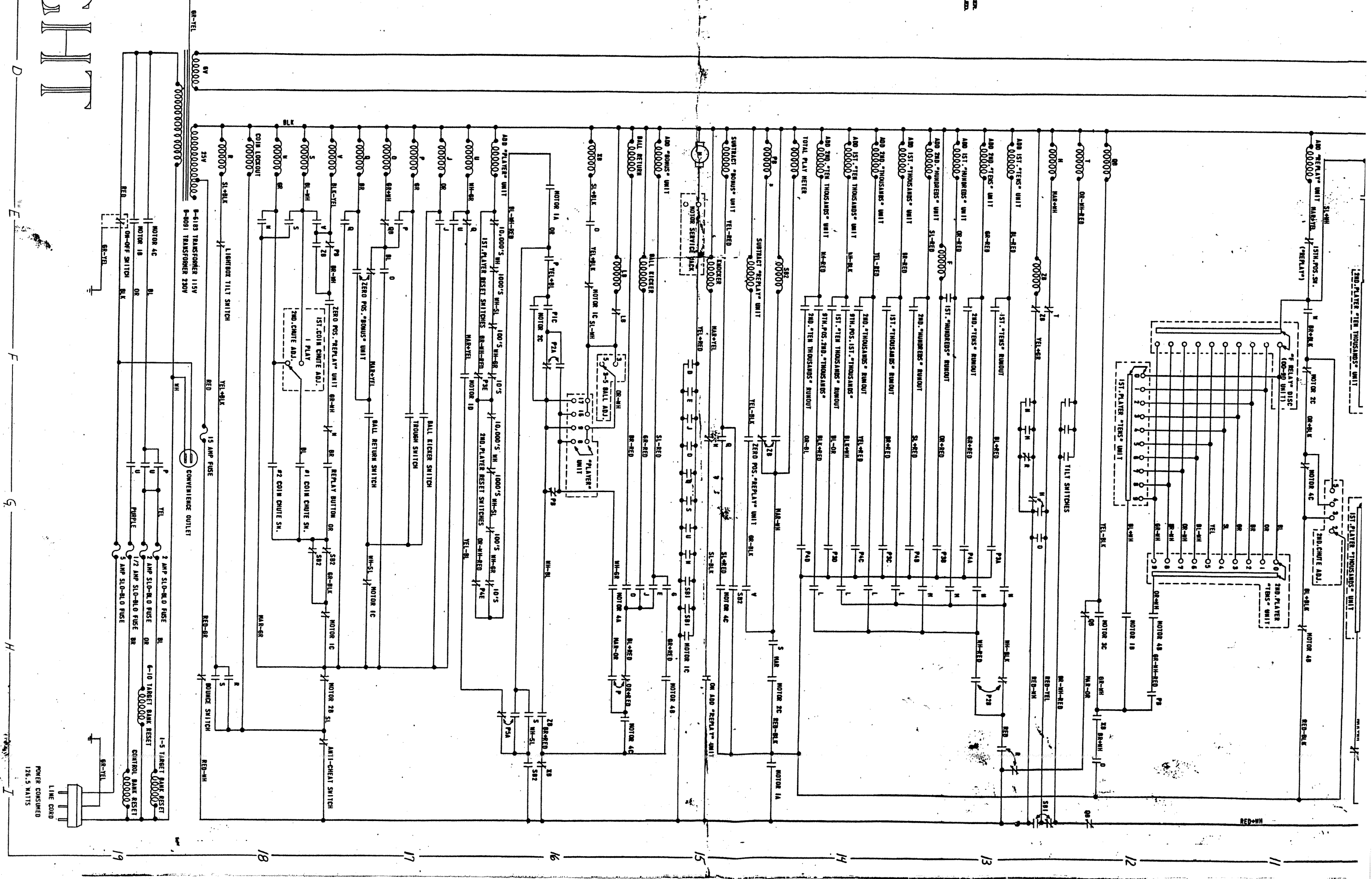
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POWER CONSUMED
126.5 WATTS