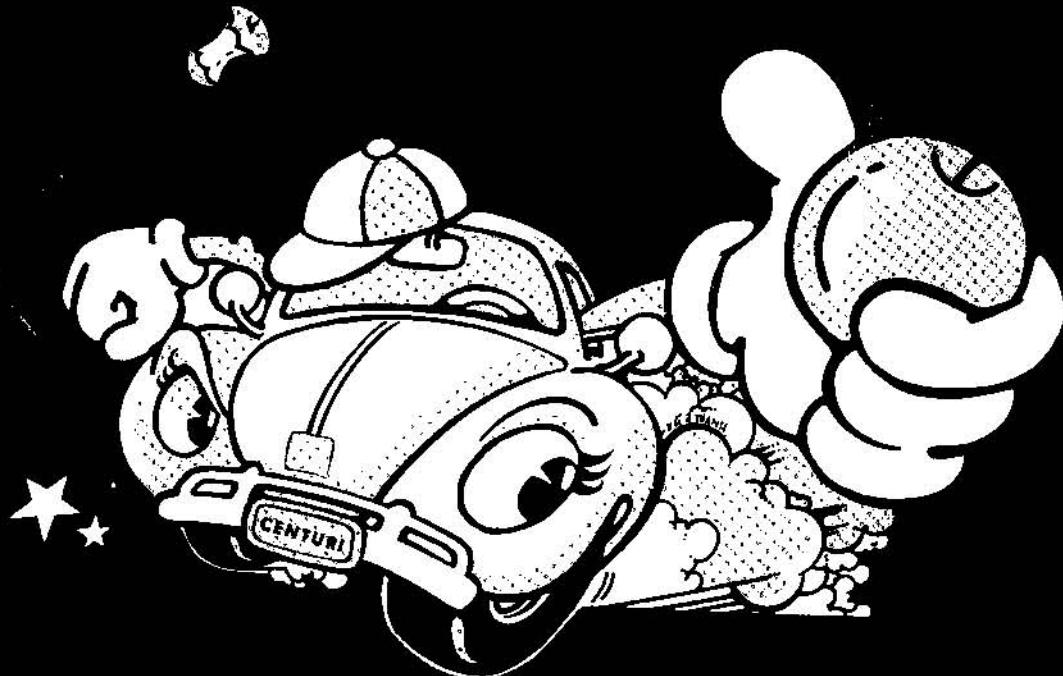


centuri
inc.
MANUAL NO. 011-4641

SERVICE MANUAL

MUNCH MOBILE



MUNCH MOBILE

CENTURI, INC.
245 W. 74TH PLACE
HIALEAH, FLA. 33014

CUSTOMER SERVICE:
TEL. #(305) 558-5200 (IN FLORIDA)
TEL. #(800) 327-7710 (OUTSIDE FLORIDA)

TELEX: 803694 ANSB CENTURI CABLE: CENTURI

"MUNCH MOBILE"

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USER INFORMATION - F.C.C.

WARNING

THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY, AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE INTERFERENCE TO RADIO COMMUNICATIONS. AS TEMPORARILY PERMITTED BY REGULATION, IT HAS NOT BEEN TESTED FOR COMPLIANCE PURSUANT TO SUBPART J OF PART 15 OF F.C.C. RULES, WHICH ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST SUCH INTERFERENCE. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE INTERFERENCE IN WHICH CASE, THE USER AT HIS OWN EXPENSE WILL BE REQUIRED TO TAKE WHATEVER MEASURES MAY BE REQUIRED TO CORRECT THE INTERFERENCE.

INTRODUCTION

"MUNCH MOBILE" IS A MICROPROCESSOR BASED COIN-OPERATED ELECTRONIC GAME, THAT MAKES EXTENSIVE USE OF DIGITAL INTEGRATED CIRCUITRY AND TELEVISION MONITOR CONCEPTS. THIS MANUAL IS DESIGNED FOR THE USE OF MAINTENANCE TECHNICIANS WHO POSSESS A GENERAL WORKING KNOWLEDGE OF SOLID-STATE CIRCUITRY, AND VIDEO MONITOR THEORY. ANY INDIVIDUAL NOT KNOWLEDGEABLE IN THESE AREAS SHOULD NOT ATTEMPT REPAIR OF THE ELECTRONIC PORTIONS OF THE GAME.

IN ADDITION TO THIS MANUAL AND TRAINING IN ELECTRONICS, TROUBLE-SHOOTING AND REPAIR WILL BE FACILITATED BY ACCESS TO GENERAL-TYPE HANDTOOLS, A MULTIMETER, A 50 OR 100 MHZ OSCILLOSCOPE AND A LOGIC PROBE WOULD BE HELPFUL.

TECHNICAL ASSISTANCE IS AVAILABLE BY CALLING (305) 558-5200. QUESTIONS OR COMMENTS CONCERNING "MUNCH MOBILE" OR ANY OF OUR GAMES ARE WELCOME AND SHOULD BE DIRECTED TO:

CENTURI, INC.
CUSTOMER SERVICE DEPARTMENT
#800-327-7710 (OUTSIDE THE STATE OF FLA.)
#305-556-5888 (IN FLORIDA)

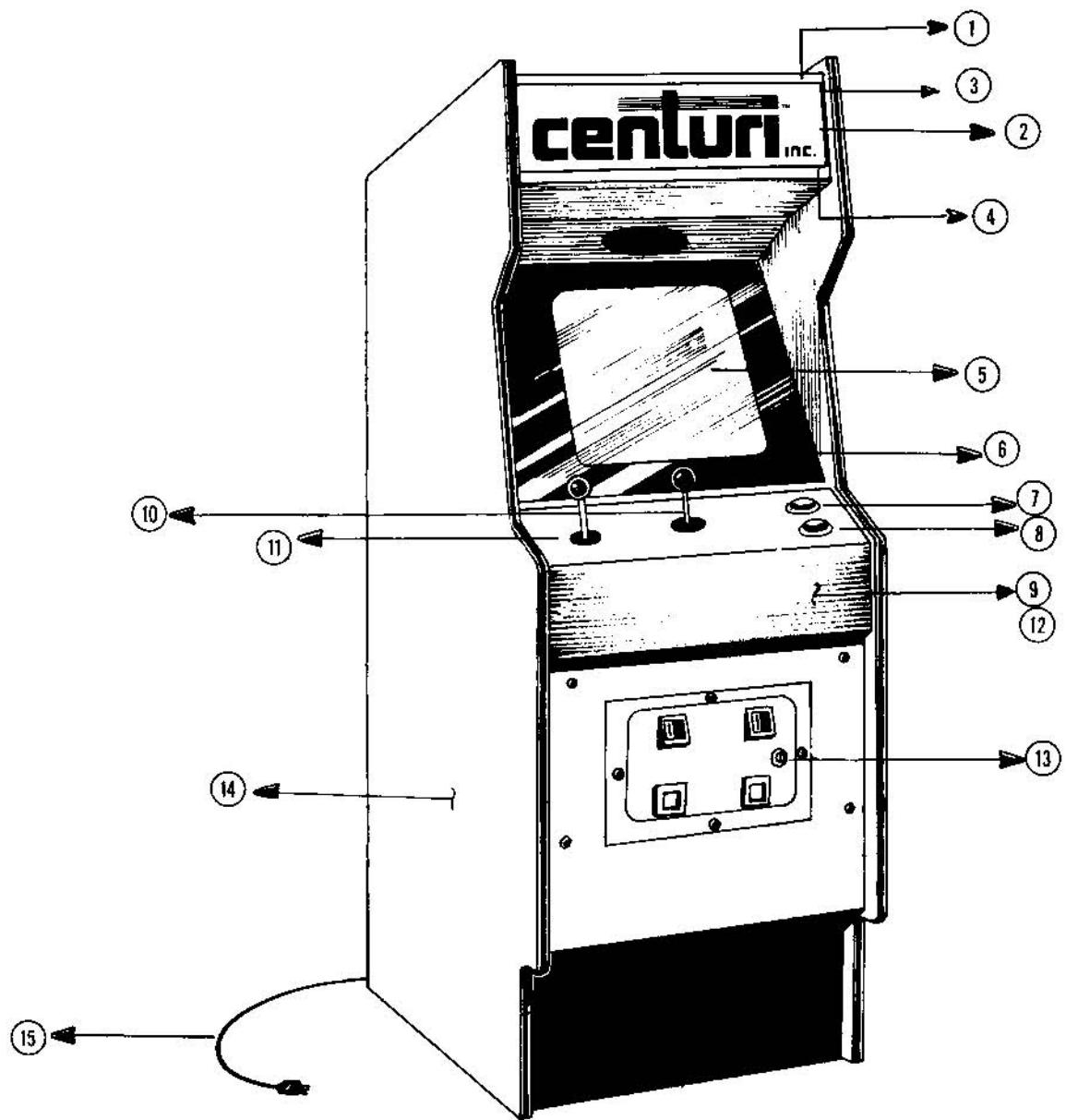
NOTES

NEVER REPLACE ANY COMPONENTS WITH ANYTHING OTHER THAN EXACT REPLACEMENT PARTS.

NEVER REMOVE CIRCUIT BOARD CONNECTIONS WHILE POWER IS ON.

DO NOT REPLACE THE FUSE WITH ANYTHING OTHER THAN THE PROPER VALUE. A BLOWN FUSE INDICATES AN OVERLOAD CONDITION WITHIN THE GAME. REPLACING THE FUSE WITH A HIGHER VALUE CAN CAUSE SEVERE DAMAGE TO INTERNAL COMPONENTS IF AN OVERLOAD OCCURS.

ALWAYS CONSULT THE MANUAL BEFORE ATTEMPTING REPAIRS.



(FIG. 1) FRONT VIEW OF CABINET.

MUNCH MOBILE CABINET

PARTS LIST

| Item | CENTURI P/N | DESCRIPTION: | QNTY. |
|------|-------------|------------------------------|-------|
| 1. | 302-2592 | Top angle hold down bracket | 1 |
| 2. | 802-3108 | Silk screened marquee panel | 1 |
| 3. | 803-0960 | Vinyl trim, 7½" long | 1 |
| 4. | 302-2530 | Glass holding bracket | 1 |
| 5. | 605-0957 | Viewing glass | 1 |
| 6. | 804-3125 | Silkscreened monitor overlay | 1 |
| 7. | | 1 - Player start button | 1 |
| 8. | | 2 - Player start button | 1 |
| 9. | | Control panel overlay | 1 |
| 10. | 702-1202 | 8 - Way micro sw. joystick | 1 |
| 11. | 702-1203 | 2 - Way micro sw. joystick | 1 |
| 12. | 006-4459 | Control panel wired ass'y. | 1 |
| 13. | 009-4694 | Coinco coin door | 1 |
| 14. | 004-4326 | Wood cabinet ass'y. | 1 |
| 15. | 008-4722 | Line cord | 1 |

MUNCH MOBILE - Game Description

The object of "Munch Mobile" is to guide the car on the road, avoiding obstacles and return home without running out of gas. Along the route, objects are collected with a hand protruding from the car. The more fruit collected, the higher the bonus.

The player controls the car with the 8-way joystick and the hand is controlled by the 2-way joystick. This game requires eye-hand coordination and skill in order to pick up the objects and make it back home safely.

Round 1:

Along the route, fruit is collected by the hand. Careful attention is given to avoid injuring the hand against bushes and trees and keep the car on the road without running into the side of the road.

At the bottom of the screen, an apple is displayed that indicates which object will give the extra bonus, if the required number of that object is collected. The fruit is eaten by the car, and the hand should dispose of its residue into the trash cans alongside of the road. Additional fuel for the car may be obtained from the roadside in appropriately indicated gas containers. Halfway along the route is a bridge crossing a river. The fish jumping into the air from the river should be caught. After crossing the bridge, fruits and fuel should still be collected. Rocks and fire trucks should be avoided by the car.

The round is completed by cautiously parking the car in the house's garage.

Round 2:

This round is similar to Round 1 except the car moves faster. More objects are added alongside the road and are positioned so they are harder to collect. Cherries are displayed at the bottom of the screen and the required amount should be collected for extra bonus points. There is an intersection of roads in this round where a collision with other vehicles should be avoided. This round is completed in the same manner as in Round 1.

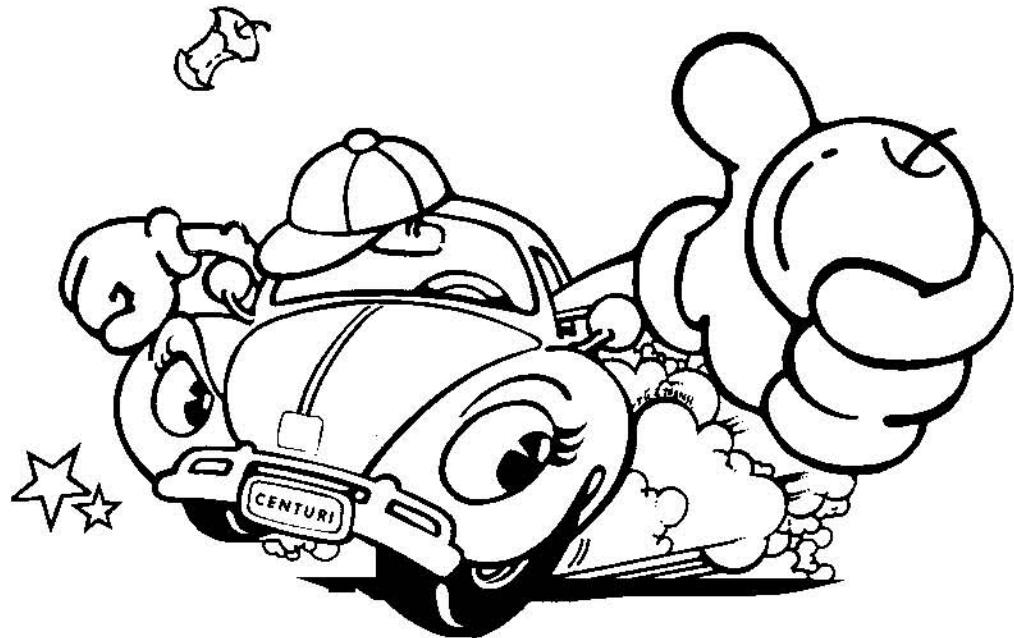
Round 3:

In this round, more curves and intersections are added. Objects to be collected are situated in more difficult locations. The speed of this round is much faster than that of previous rounds. 90 degree curves have been added that require precise timing in maneuvering the car in order to successfully pass them.

Round 4-7:

Each round becomes progressively faster incorporating more curves, with more objects to collect and more obstacles.

MUNCH
MOBILE



INSTRUCTIONS

- 1) Control Munch Mobile with left joystick.
- 2) Control Munch Mobile's hands with right joystick.
- 3) How to score points:
 - Collect fruit, fish, etc. and bring into Munch Mobile.
 - Deposit waste in trash cans.
 - Collect bags of money.
- 4) Bonus scoring:
 - Enter garage at the end of each round. Points are determined by speed of Munch Mobile and number of objects collected during the round.
 - Collect the required number of the designated objects in each round for additional points.
- 5) Don't run out of fuel!

"MUNCH MOBILE"

INSTRUCTION OF DIP SW

Dip Switch #1

| Description | SW1 | SW2 | SW3 | SW4 | SW5 | SW6 | SW7 | SW8 |
|---------------|---------------|-----|-----|-----|-----|-----|-----|-----|
| Coin 1 | | | | | | | | |
| 1 coin/1 play | Don't Care | On | On | On | On | | | |
| 1 coin/2 play | Don't Care | Off | On | On | On | | | |
| 1 coin/3 play | Don't Care | On | Off | On | On | | | |
| 1 coin/4 play | Don't Care | Off | Off | On | On | | | |
| 1 coin/5 play | Don't Care | On | On | Off | On | | | |
| 1 coin/6 play | Don't Care | Off | On | Off | On | | | |
| 1 coin/7 play | Don't Care | On | Off | Off | On | | | |
| 1 coin/8 play | Don't Care | Off | Off | Off | On | | | |
| 2 coin/1 play | Don't Care | On | On | On | Off | | | |
| 2 coin/3 play | Don't Care | Off | On | On | Off | | | |
| 3 coin/1 play | Don't Care | On | Off | On | Off | | | |
| 3 coin/2 play | Don't Care | Off | Off | On | Off | | | |
| 1 coin/1 play | Don't Care | On | On | Off | Off | | | |
| 1 coin/1 play | Don't Care | Off | On | Off | Off | | | |
| 1 coin/1 play | Don't Care | On | Off | Off | Off | | | |
| 1 coin/1 play | Don't Care | Off | Off | Off | Off | | | |
| Bonus | SW1 | SW2 | SW3 | SW4 | SW5 | SW6 | SW7 | SW8 |
| 10,000 | Don't Care | | | | On | On | On | |
| 20,000 | Don't Care | | | | Off | On | On | |

| Bonus | SW1 | SW2 | SW3 | SW4 | SW5 | SW6 | SW7 | SW8 |
|----------|---------------|-----|-----|-----|-----|-----|-----|-----|
| 30,000 | Don't Care | | | | | On | Off | On |
| 40,000 | Don't Care | | | | | Off | Off | On |
| 50,000 | Don't Care | | | | | On | On | Off |
| 60,000 | Don't Care | | | | | Off | On | Off |
| 70,000 | Don't Care | | | | | On | Off | Off |
| No Bonus | Don't Care | | | | | Off | Off | Off |

Dip Switch #2

| Description | SW1 | SW2 | SW3 | SW4 | SW5 | SW6 | SW7 | SW8 |
|-------------------|-----|-----|-----|-----|-----|-----|-----|-----|
| Number of Car (1) | | | On | On | | | | |
| (2) | | | Off | On | | | | |
| (3) | | | On | Off | | | | |
| (5) | | | Off | Off | | | | |
| Stop Picture | | | | | Off | | | |
| Music on Demo | | | | | | On | | |
| Table | | | | | | | Off | |
| Upright | | | | | | | On | |
| 2nd Bonus | | | | | | | | |
| 30,000 | | On | On | | | | | |
| 40,000 | | Off | On | | | | | |
| 100,000 | | On | Off | | | | | |
| No Bonus | | Off | Off | | | | | |
| every | | | | | | | | |

INSTALLATION

Your game was shipped from the factory in ready-to-play condition. A brief inspection is suggested before the machine is removed from the carton. If there is damage to the shipping carton, contact the freight carrier for claim purposes. External damage could indicate possible damage to the cabinet and/or electronics components.

After the carton has been satisfactorily inspected, remove the machine from the shipping carton.

Examine the interior of the game for disconnected wires, cables, or harnesses. Make sure the electronic devices are securely mounted in their sockets, etc. Record the game serial number, since it will be required for reference and servicing.

ELECTRICAL REQUIREMENTS

Unless otherwise specified, this game is set to operate at 110 Volts A.C. (See Fig. 2 and 110/220 VAC conversion instructions.)

Power supply chassis schematic information and parts list are included in this manual.

110/220 VAC CONVERSION INSTRUCTIONS

This game contains a harness configuration which allows the machine to be operated from either a 110 VAC or 220 VAC, 50 Hz or 60 Hz power source. All games shipped from Centuri, Inc., are in the 110 VAC configuration. To change to the 220 VAC configuration follow the procedure below.

- FIRST: Unplug the machine from the wall outlet to completely eliminate shock hazards.
- SECOND: Remove the single 3 AMP slow-blow fuse found in the A.C. Distribution Bracket, and install two, 1.5 AMP slow-blow fuses. Next cut the #18 AWG. white jumper at both ends of the fuse holder, and replace the cover.
- THIRD: On the game power transformer, locate the "orange" jumper plug which is marked, 110 VAC. Unplug the "orange" jumper, and plug in the "red" jumper marked 220 VAC.

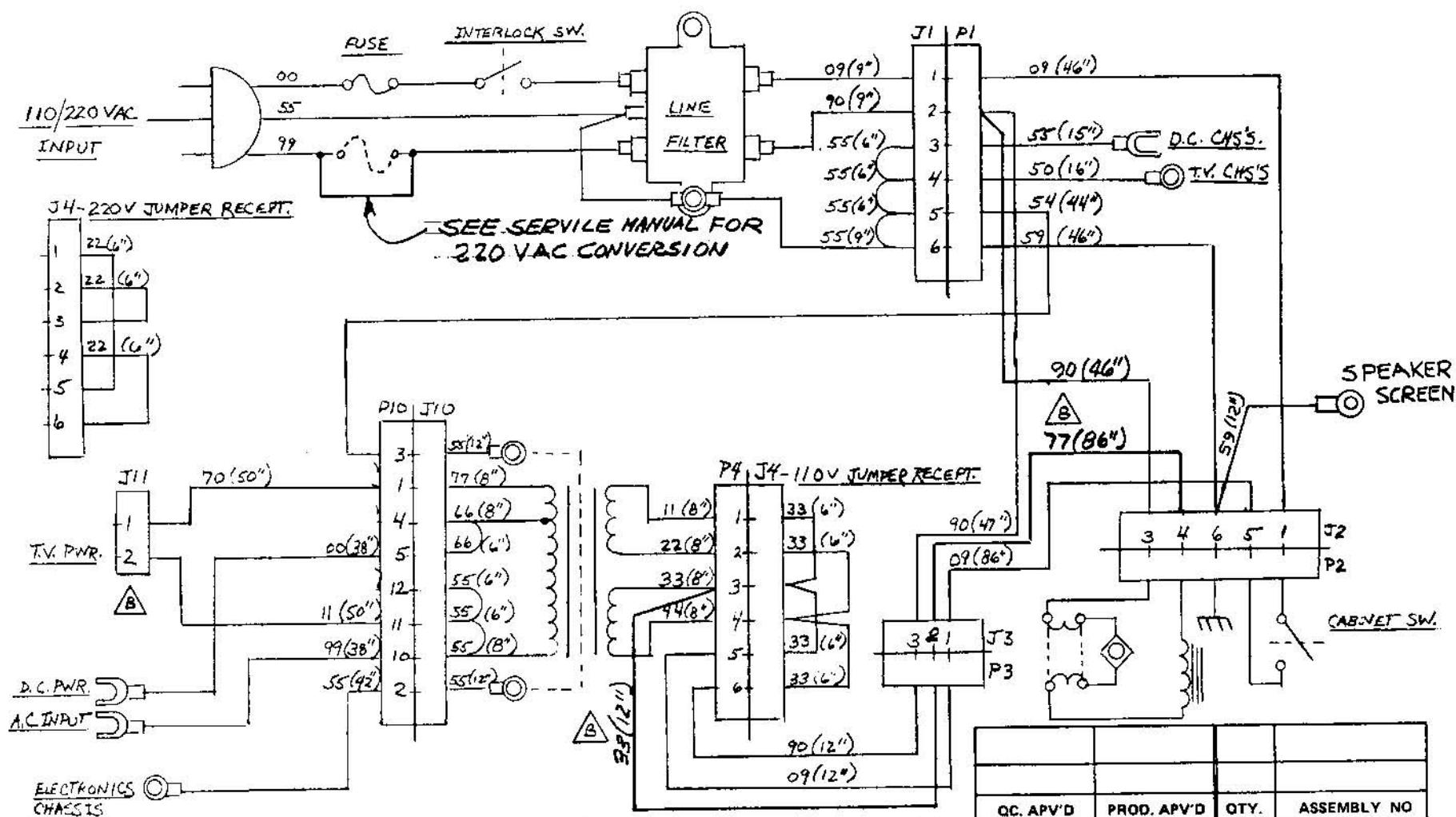
To revert back to 110 VAC, replace the components originally removed from the Steps above.

*****NOTE:** The common side of the A.C. Line must not be fused in the 110 VAC configuration - Replace the #18 AWG., white jumper wire.

(Refer also to FIG. 2, 110/220 POWER INTERCONNECT DIAGRAM, #370-10-0400B)

THE MATERIAL CONTAINED HEREIN IS CONFIDENTIAL
AND NO PART OF IT CAN BE REPRODUCED WITHOUT THE
EXPRESSED PERMISSION OF CENTURI, INC.

FIGURE 2



AF 17899A

| REV. LET. | ECN NO. | REVISION | BY |
|-----------|---------|--|----|
| B | | DELETED TV POW 3 ADDED WIRE 33(12") & 77(86") | |
| A | | | |

| TOLERANCES | |
|----------------------------|--------|
| Unless Otherwise Specified | |
| FRACTIONS | ± 1/32 |
| DECIMALS 2 PL | ± .015 |
| DECIMALS 3 PL | ± .005 |
| HOLDS | ± .003 |
| ANGLES | ± 1/2° |
| SHT. MET BENDS | ± 2° |

centurion

HIALEAH, FLORIDA 33014

| | | | |
|----------|-------------------------------------|-------------|----------------------|
| NAME | 110/220V POWER INTERCONNECT DIAGRAM | | |
| MATL'S. | HEAT TREAT. | FINISH | |
| DWN. VAP | APV | DATE 5-8-81 | SCALE |
| | | | PART NO. 370-10-0400 |
| | | | REV. E |

ROUTINE MAINTENANCE & SERVICE

Because of the solid state electronic circuitry, this machine should require very little maintenance, and only occassional adjustments. However, it is necessary to take steps to insure this.

The volume control is located on the bottom side of the printed circuit board, farthest from the side of the cabinet, and can be accessed through the rear door.

The video monitor has been properly adjusted before shipping. Occassionally minor adjustments are necessary. Technical information, along with schematics, can be found in this manual. Adjustment controls for the monitor are located on the rear of the monitor.

"DO NOT MAKE ANY ADJUSTMENTS ON THIS MACHINE WHILE THE POWER IS ON!" This machine should only be adjusted by a "qualified" technician.

For Service Information, contact:

CENTURI, INC.

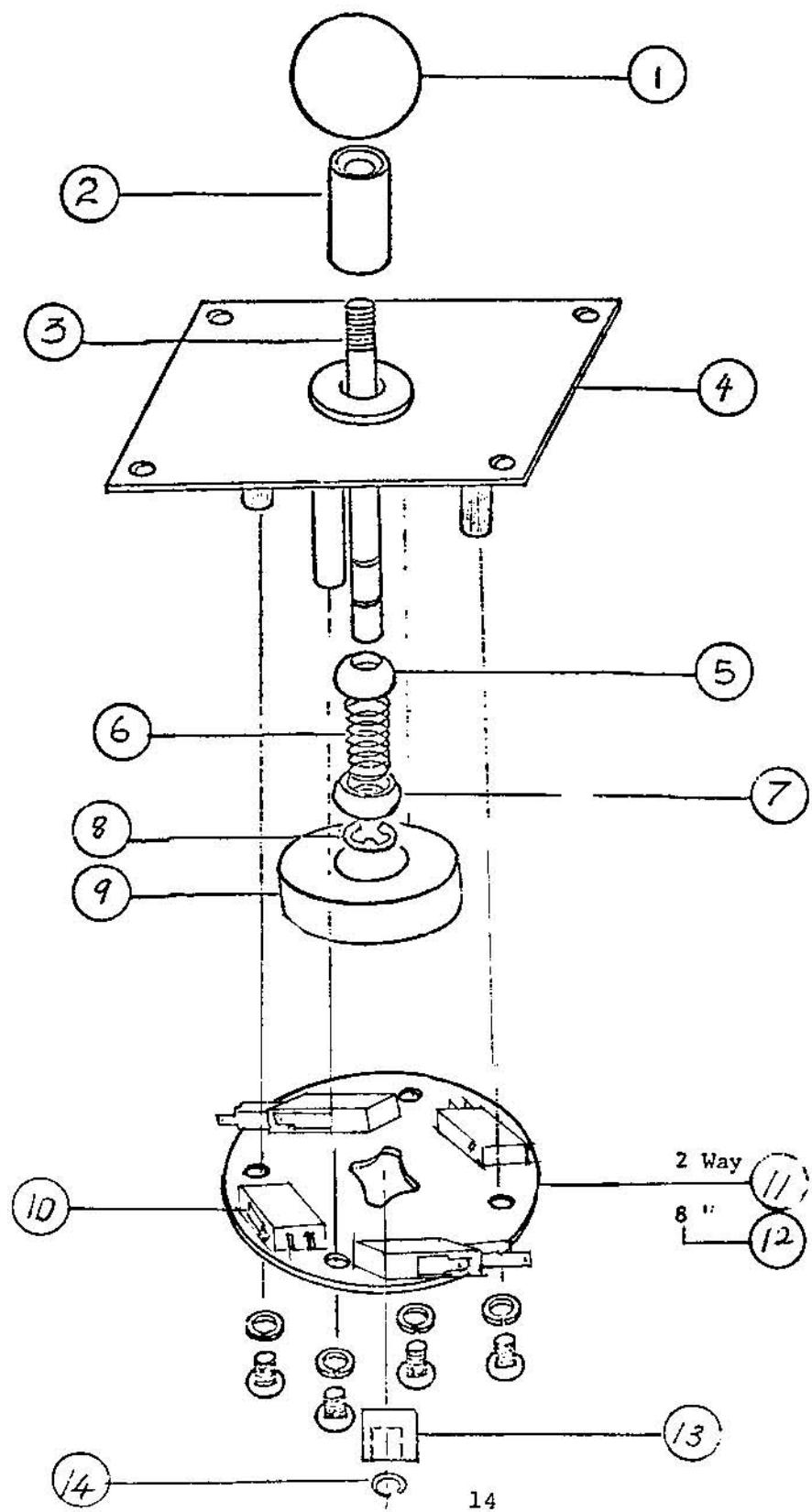
CUSTOMER SERVICE DEPARTMENT
#800-327-7710 (Outside the State of Fla.)
#305-556-5888 (In Florida)

POWER SUPPLY

The Computer Board in this game operates most efficiently and reliably when the power supply is set so the voltage on the Board is 5.0 Volts, ± 0.1 Volts. To check this, place a meter across 5 Volts, and ground, at the edge connector. If necessary, adjust the screwdriver control on the power supply, so the meter reads between 4.9 and 5.1 Volts.

(FIG. 3) EXPLODED VIEW OF JOYSTICK ASS'Y

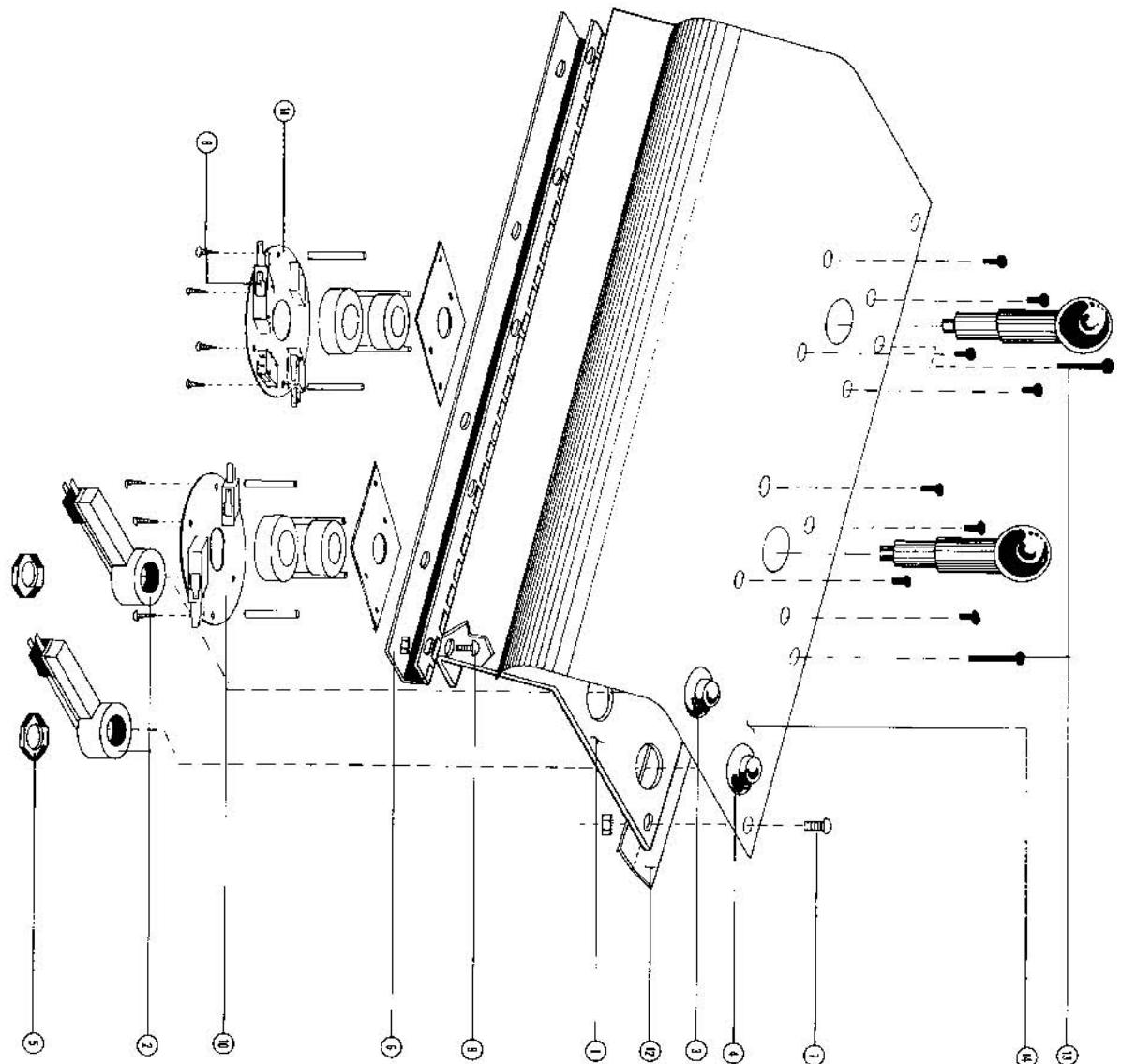
2- 8 Way JOYSTICK



2/8 Way Micro Switch Joystick

PARTS LIST

| ITEM | CENTURI P/N | DESCRIPTION | QNTY. |
|------|-------------|--------------------------------|-------|
| 1. | 409-1183 | 1 3/8" O.D. Ball | 1 |
| 2. | 607-0028 | Spacer | 1 |
| 3. | 607-0029 | Shaft | 1 |
| 4. | 409-1186 | Top Plate Welding Ass'y. | 1 |
| 5. | 409-1187 | Top Ball | 1 |
| 6. | 409-1188 | Spring | 1 |
| 7. | 409-1189 | Bottom Ball | 1 |
| 8. | 409-1190 | E-Ring | 1 |
| 9. | 409-1191 | Nylon Actuator | 1 |
| 10. | 409-1160 | Micro Switch | 2/4 |
| 11. | 302-2670 | 2 Way Function Plate Micro Sw. | 1 |
| 12. | 302-2671 | 8 Way Function Plate Micro Sw. | 1 |
| 13. | 702-1199 | Roller | 1 |
| 14. | 702-1200 | C-Ring | 1 |



| OC. AMPL. | PROD. AMPL. | GTN | ASSEMBLY NO. |
|--------------------------------|-------------|-----------------------|--------------|
| TOLERANCES | | | |
| UNLESS OTHERWISE SPECIFIED | | | |
| FRACTIONS | 1/16 | centurion | |
| DECIMALS 2 PL. | .015 | MANUFACTURED BY | |
| DEGREES & SEC. | - | HAROLD F. KIMBER 2014 | |
| HOLE | .001 | PRINTED ON | |
| ANGLES | .001 | PAPER | |
| SURF. MACHINING | 1/16 | DATE | |
| REV. NO. | 6Y | APPROD. | 12/17/14 |
| REVISION | 2 | SCALE | 1:1 |
| EXPLoded VIew OF CONTROL PANEL | | | |
| HEAT TREAT. FINISH. | | | |
| PART NO. 100-000000000000 | | | |

CONTROL PANEL ASS'Y.

PARTS LIST

| Item | CENTURI P/N | DESCRIPTION | QNTY. |
|------|-------------|---|-------|
| 1. | 301-2519 | Control panel | 1 |
| 2. | 409-1163 | 15-0925-01 wico switch w/holder | 2 |
| 3. | 701-1171 | 15-0520-01 wico red button | 1 |
| 4. | 701-1170 | 15-0255-01 wico white button | 1 |
| 5. | 103-0951 | PAL NWT 19-0254-01 wico | 2 |
| 6. | 306-2661 | Hinge | 1 |
| 7. | 111-2322 | Carriage bolt, B.O. 10-24 x $\frac{1}{2}$ " | 6 |
| 8. | 409-1160 | Micro switch | 6 |
| 9. | 111-2323 | Carriage bolt, B.O. 10-24 x 3/4" | 9 |
| 10. | 302-2670 | 2 way micro sw. function plate | 1 |
| 11. | 302-2671 | 8 way micro sw. function plate | 1 |
| 12. | 302-2585 | Deck & glass angle bracket | 1 |
| 13. | 111-2326 | Carriage bolt, B.O. 10-24 x 1 3/4" | 2 |
| 14. | 801-3081 | CTR panel overlay | 1 |
| 15. | 409-1186 | Top plate welding ass'y. | 1 |

2800-0 FRONT PLATE EXPLODED VIEW
25¢ COIN

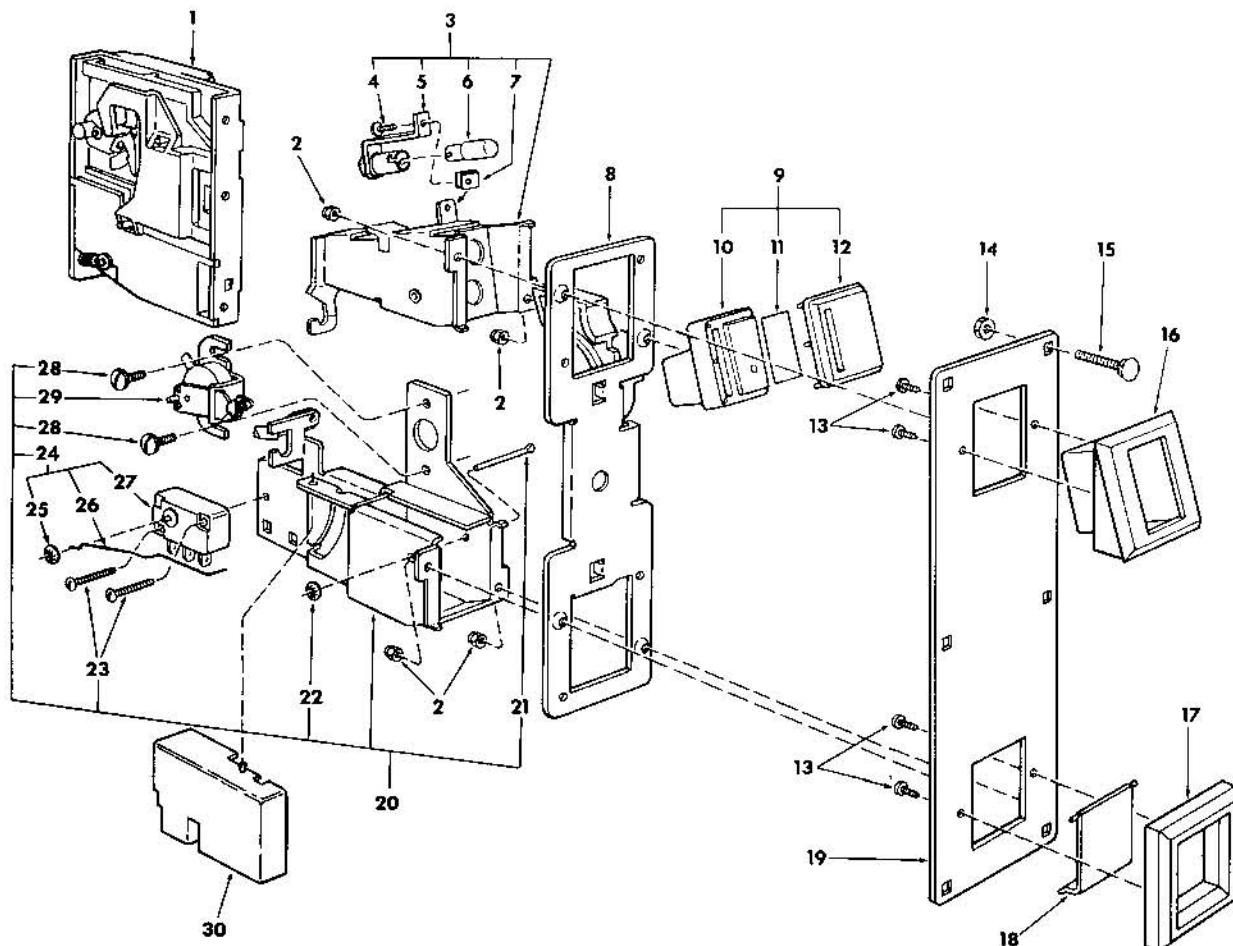


FIGURE 5

| Index No. | Part No. | Description | Index No. | Part No. | Description |
|-----------|----------|---|-----------|----------|--------------------------------------|
| 1 | 5301-10 | 25¢ Coin Acceptor | 16 | 904588 | Coin Inlet Housing |
| 2 | 400-4 | #4-40 Self Locking Nut | 17 | 904590 | Coin Return Cover |
| 3 | 404351 | Coin Inlet Chute Assembly | 18 | 904599 | Coin Return Door |
| 4 | 110-4-6 | 4 x 3/8 Screw | 19 | 404463 | Frontplate Assembly, 3-1/8" x 9-1/4" |
| 5 | 904717 | Lamp Socket | 20 | 404350 | Coin Return Chute Assembly |
| 6 | 904716 | #47 Lamp (6.3 Volt) | 21 | 905115 | Bar |
| 7 | 904712 | Fastener | 22 | 904936 | Keeper |
| 8 | 404464 | Inner Panel/Lever Assembly | 23 | 100-4-12 | 4-40 x 3/4 Screw |
| 9 | 404348 | Coin Return Button Assembly | 24 | 404353 | Switch & Wire Assembly |
| 10 | 904591 | Coin Return Button | 25 | 900651 | Retainer |
| 11 | 904703 | 25¢ Price Decal | 26 | 904710-1 | Switch Wire-Silver |
| 12 | 904589-2 | Reject Cover Button (25¢) | 27 | 904845 | Switch |
| 13 | 345-4-5 | #4 x 5/16 Pan Head Screw | 28 | 100-6-3 | 6-32 x 3/16 Screw |
| 14 | 406-10 | #10-24 Hex Nut (Mounting Hardware) | 29 | 404354 | 12 Volt Crem Assembly |
| 15 | 905022 | #10-24 x 1-1/8 Carriage Bolt (Mounting Hardware) | 30 | 904762 | Switch Cover |

2800-0 FRONT PLATE EXPLODED VIEW

(FIGURE 5)

PARTS LIST

| <u>NO.</u> | <u>CENTURI P/N:</u> | <u>MANUFACTURING P/N:</u> | <u>DESCRIPTION:</u> |
|------------|---------------------|---------------------------|---|
| 1. | 606-0966 | 5031-10 | 25¢ COIN ACCEPTOR |
| 5. | 606-0987 | 904717 | LAMP SOCKET |
| 6. | 606-0988 | 904716 | #47 LAMP (6.3 VOLT) |
| 8. | 606-0990 | 404464 | INNER PANEL/LEVER ASS'Y. |
| 10. | 606-0967 | 904591 | COIN RETURN BUTTON |
| 11. | 606-0968 | 904703 | 25¢ PRICE DECAL |
| 12. | 606-0969 | 904589-2 | REJECT COVER BUTTON (25¢) |
| 16. | 606-0971 | 904588 | COIN INLET HOUSING |
| 17. | 606-0975 | 904590 | COIN RETURN BEZEL |
| 18. | 606-0972 | 904599 | COIN RETURN DOOR |
| 19. | 606-0991 | 404463 | FRONTPLATE ASS'Y. (3 ¹ / ₈ "x9 ³ / ₄ ") |
| 21. | 606-0986 | 905115 | BAR |
| 25. | 606-0963 | 900651 | RETAINER |
| 26. | 606-0964 | 904710-1 | SWITCH-WIRE, SILVER |
| 27. | 409-1165 | 904845 | SWITCH |
| 29. | 606-0983 | 404354 | 12 VOLT C.R.E.M. ASS'Y. |
| 30. | 606-0982 | 904762 | SWITCH COVER |
| 31. | 606-1001 | 404604 | COIN RETURN BUTTON ASS'Y. |
| 32. | 606-1000 | 905425-4 | COIN INLET HOUSING |

2800 SERIES COIN DOOR EXPLODED VIEW

25¢ U.S. COIN

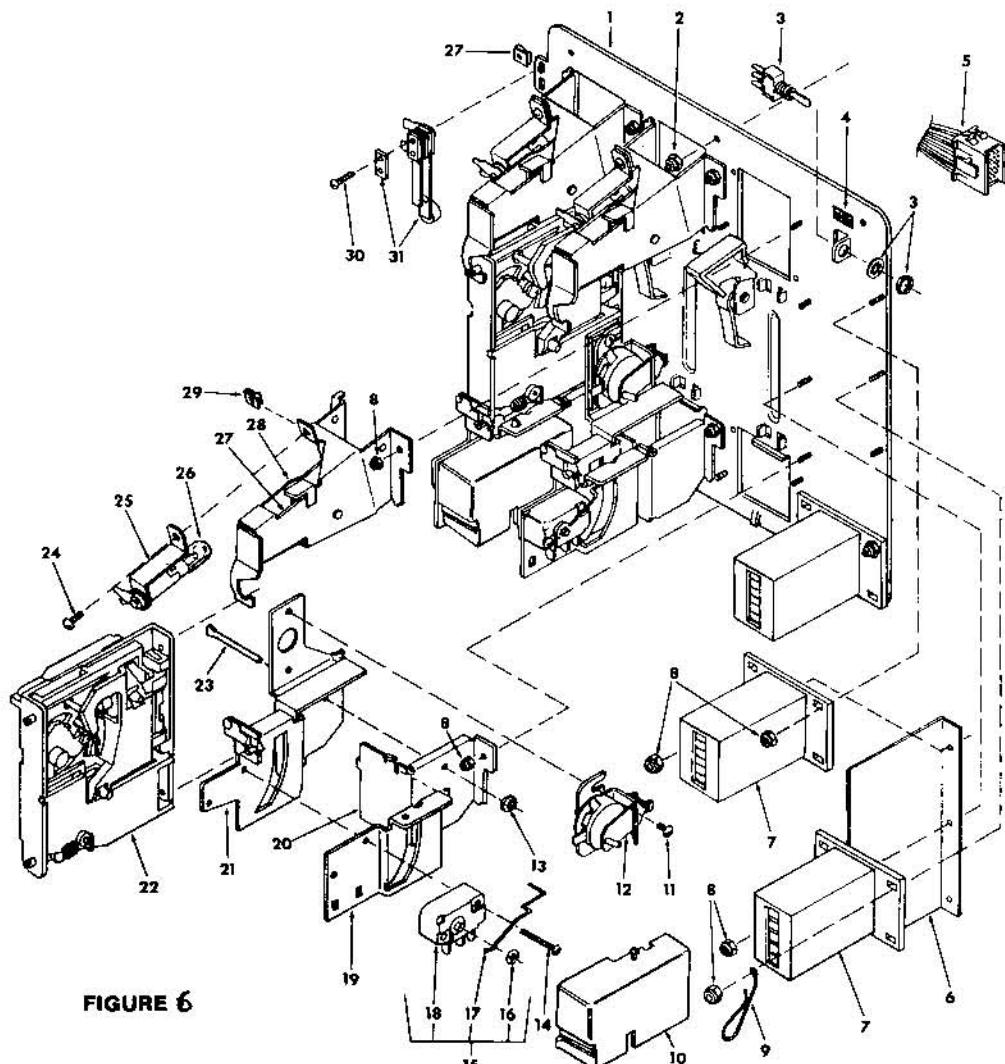


FIGURE 6

| Index No. | Part No. | Description | Index No. | Part No. | Description |
|--------------|-------------|---|--------------|-------------|---|
| 1 | 404429 | Inner Panel With Levers Sub-Assembly | 17 | 904710-1 | Silver Switch Wire — for U.S. 25¢ Coin |
| 2 | 400-8 | Nut | 18 | 904845 | Switch |
| 3 | 904782 | Toggle Switch | 19 | 904701 | Coin Chute |
| 4 | 904706 | Test Switch Decal | 20 | 904598 | Coin Return Box |
| 5 | 904822 | Custom Harness Assembly | 21 | 404428 | Switch and C.R.E.M. Coil Bracket Assembly |
| 6 | 404352 | Insulation | 22 | 5301-10 | 25¢ Acceptor |
| 7 | 404352 | Coin Counter Assembly (6 Volt D.C.) | 23 | 905115 | Bar |
| 8 | 400-4 | Nut | 24 | 110-4-6 | Screw |
| 9 | 904722 | Wire Key Holder | 25 | 904717 | Miniature Bayonet-Base Lamp Socket |
| 10 | 904762 | Switch Cover | 26 | 904716 | #47 Lamp (6.3 Volt) |
| 11 | 100-6-3 | Screw | 27 | 404418 | Coin Inlet Chute Sub-Assembly |
| 12 | 404354 | C.R.E.M. Coil Assembly. 12 Volts D.C. | 28 | 904594 | Right Half of Coin Inlet Chute |
| 13 | 904936 | Keeper | 29 | 904712 | "U"-Type Fastener |
| 14 | 100-4-12 | Screw | 30 | 116-4-8 | Screw |
| 15 | 404353 | Coin Switch Assembly for U.S. 25¢ Coin | 31 | 904704 | Slam Switch Assembly |
| 16 | 900651 | Retainer | | | |

2800 SERIES COIN DOOR EXPLODED VIEW

25¢ U.S. COIN

(FIGURE 6)

PARTS LIST

| <u>NO.</u> | <u>CENTURI P/N:</u> | <u>MANUFACTURING P/N:</u> | <u>DESCRIPTION:</u> |
|------------|---------------------|---------------------------|---|
| 1. | 606-0978 | 404429 | INNER PANEL w/LEVERS SUBASS'Y. |
| 3. | 409-1166 | 904782 | TOGGLE SWITCH |
| 4. | 606-0979 | 904706 | TEST SWITCH DECAL |
| 5. | 364-62-1000A | ----- | CUSTOM HARNESS ASS'Y. |
| 6. | 606-0980 | 904822 | INSULATION |
| 7. | 419-1662 | 404352 | COIN COUNTER ASS'Y. |
| 9. | 606-0981 | 904722 | WIRE KEY HOLDER |
| 10. | 606-0982 | 904762 | SWITCH COVER |
| 12. | 606-0983 | 404354 | C.R.E.M. COIL ASS'Y. (12 VOLT D.C.) |
| 17. | 606-0964 | 904710-1 | SILVER SWITCH WIRE - FOR 25¢ U.S. COIN |
| 18. | 409-1165 | 904845 | SWITCH |
| 19. | 606-0965 | 904701 | COIN CHUTE |
| 20. | 606-0984 | 904598 | COIN RETURN BOX |
| 21. | 606-0985 | 404428 | SWITCH & C.R.E.M. COIL BRACKET ASS'Y. |
| 22. | 606-0966 | 5301-10 | 25¢ ACCEPTOR |
| 23. | 606-0986 | 905115 | BAR |
| 25. | 606-0987 | 904717 | MINIATURE BAYONET-BASE LAMP SOCKET |
| 26. | 606-0988 | 904716 | #47 LAMP (6.3 VOLTS) |
| 27. | 606-0989 | 404418 | COIN INLET CHUTE-SUBASS'Y. |
| 31. | 409-1167 | 904707 | SLAM SWITCH ASSEMBLY |

2800 SERIES COIN DOOR EXPLODED VIEW
25¢ U.S. COIN

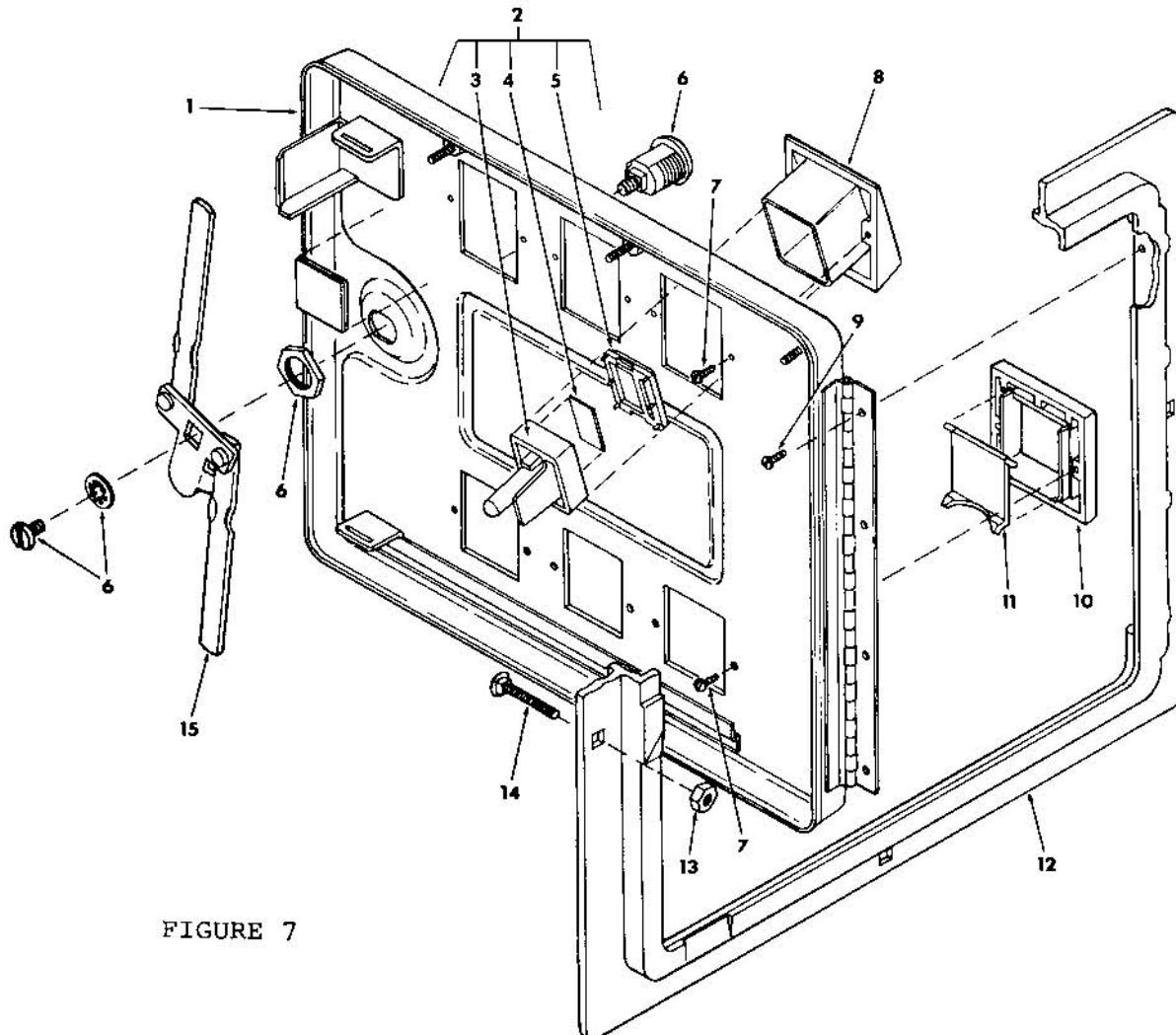


FIGURE 7

| Index No. | Part No. | Description | Index No. | Part No. | Description |
|-----------|----------|---|-----------|----------|--|
| 1 | 404341 | Coin Door Only (2 Coin) | 7 | 345-4-5 | Screw |
| | 404341-1 | Coin Door Only (3 Coin) | 8 | 904588 | Coin Button Housing |
| 2 | 404348-1 | Coin Return Button Assembly for U.S. 25¢ Coin | 9 | 325-4-4 | Screw |
| 3 | 904591 | Coin Return Button | 10 | 904590 | Coin Return Bezel |
| 4 | 904703 | U.S. 25¢ Price Decal | 11 | 904599 | Coin Return Cover |
| 5 | 904589-2 | Coin Return Button Cover for U.S. 25¢ Coin | 12 | 904581 | Coin Door Frame, 11-5/8" x 13-3/8" Mounts in a 10-3/8" x 12-3/16" Opening |
| 6 | 904707-1 | Lock Assembly | 13 | 406-416 | Hex Nut |
| | | | 14 | 904734 | Carriage Bolt |
| | | | 15 | 404357 | Locking Arm Assembly |

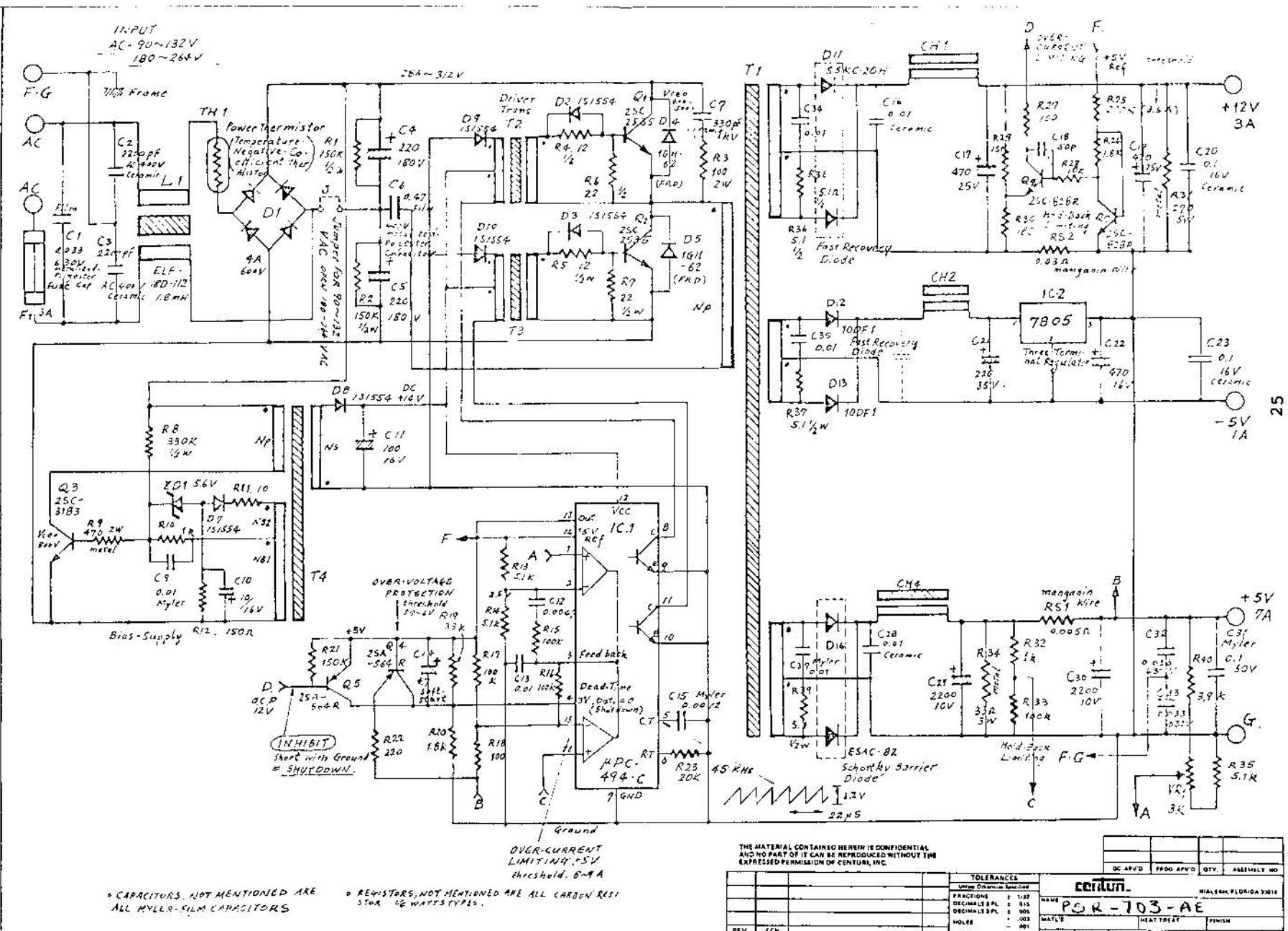
2800 SERIES COIN DOOR EXPLODED VIEW

25¢ U.S. COIN

(FIGURE 7)

PARTS LIST

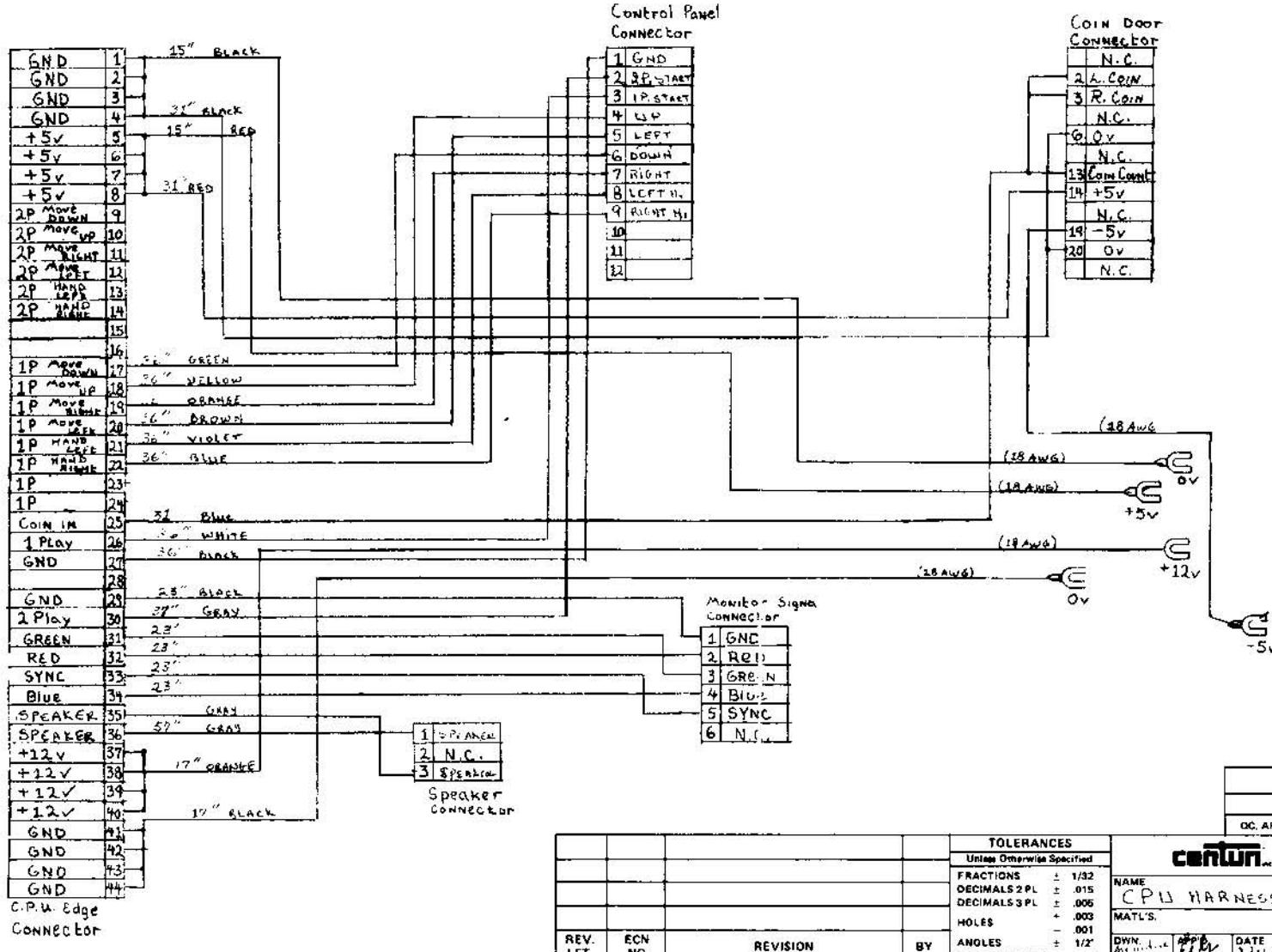
| <u>NO.</u> | <u>CENTURI P/N:</u> | <u>MANUFACTURING P/N:</u> | <u>DESCRIPTION:</u> |
|------------|---------------------|---------------------------|--|
| 1. | 606-0974 | 404341 | COIN DOOR ONLY (2 COIN) |
| 2. | 606-0976 | 404348-1 | COIN DOOR BUTTON ASS'Y. FOR U.S. 25¢ COIN |
| 3. | 606-0967 | 904591 | COIN RETURN BUTTON |
| 4. | 606-0968 | 904703 | U.S. 25¢ PRICE DECAL |
| 5. | 606-0969 | 904589-2 | COIN RETURN BUTTON COVER |
| 6. | 606-0970 | 904707-1 | LOCK ASSEMBLY w/KEYS |
| 8. | 606-0971 | 904588 | COIN BUTTON HOUSING (INLET HOUSING) |
| 10. | 606-0975 | 904590 | COIN RETURN BEZEL |
| 11. | 606-0972 | 904599 | COIN RETURN COVER |
| 12. | 606-0973 | 904581 | COIN DOOR FRAME (11 5/8" x 12 3/8") |
| 15. | 606-0977 | 404357 | LOCKING ARM ASSEMBLY |
| 16. | 606-1001 | 404604 | COIN RETURN BUTTON ASS'Y. |
| 17. | 606-1000 | 905425-4 | COIN INLET HOUSING |



* CAPACITORS NOT MENTIONED ARE ALL MYLER-FILM CAPACITORS

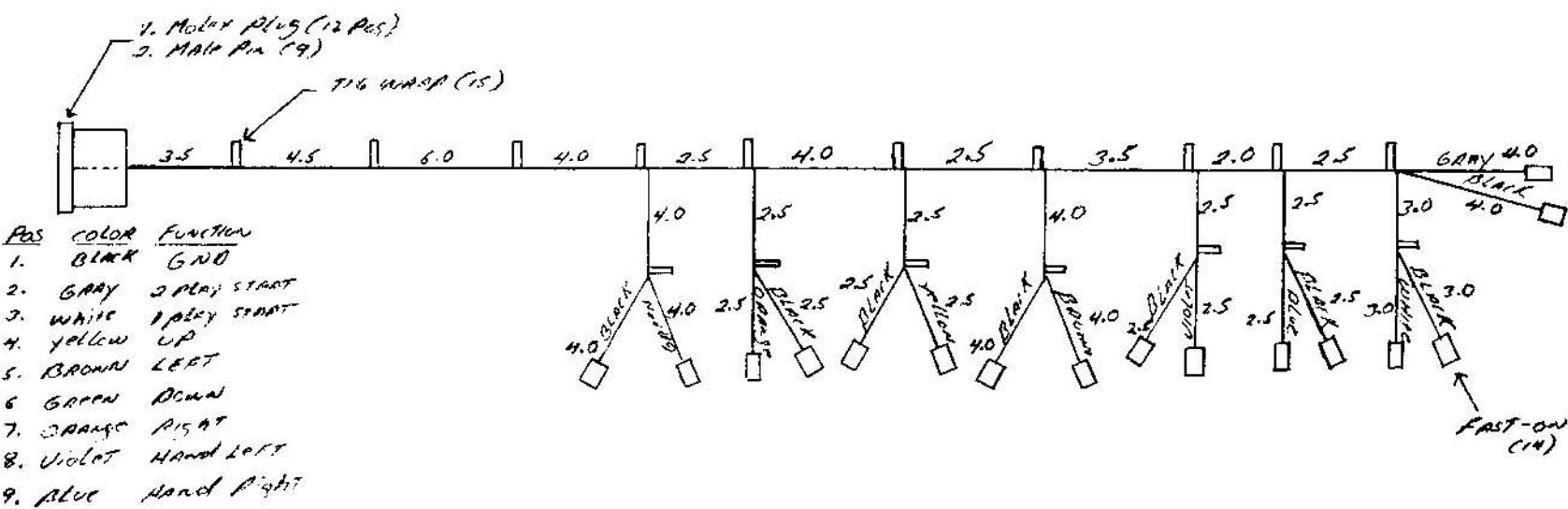
REGISTERS, NOT MENTIONED ARE ALL CARBON REGISTERS OF WATTS TYPES.

THE MATERIAL CONTAINED HEREIN IS CONFIDENTIAL
AND NO PART OF IT CAN BE REPRODUCED WITHOUT THE
EXPRESSED PERMISSION OF CENTURI, INC.



| REV. | ECN NO. | REVISION | BY | TOLERANCES | |
|------------------------------|---------|----------|----|------------|--|
| Unless Otherwise Specified | | | | | |
| FRACTIONS $\pm \frac{1}{32}$ | | | | | |
| DECIMALS 2 PL $\pm .015$ | | | | | |
| DECIMALS 3 PL $\pm .005$ | | | | | |
| HOLES $\pm .003$ | | | | | |
| ANGLES $\pm 1/2^\circ$ | | | | | |
| SHT. MET BENDS $\pm 2^\circ$ | | | | | |

| | | | |
|-----------|-----------------------------|--------|----------|
| NAME | CONTRIN | | |
| NAME | HIALEAH, FLORIDA 33014 | | |
| NAME | CP13 HARNESS - MUNCH MOBILE | | |
| MATL'S. | HEAT TREAT. | FINISH | |
| DWN. 1-14 | APR | DATE | SCALE |
| | 2/4/23 | | PART NO. |
| | | | 008-4835 |
| | | | REV. |



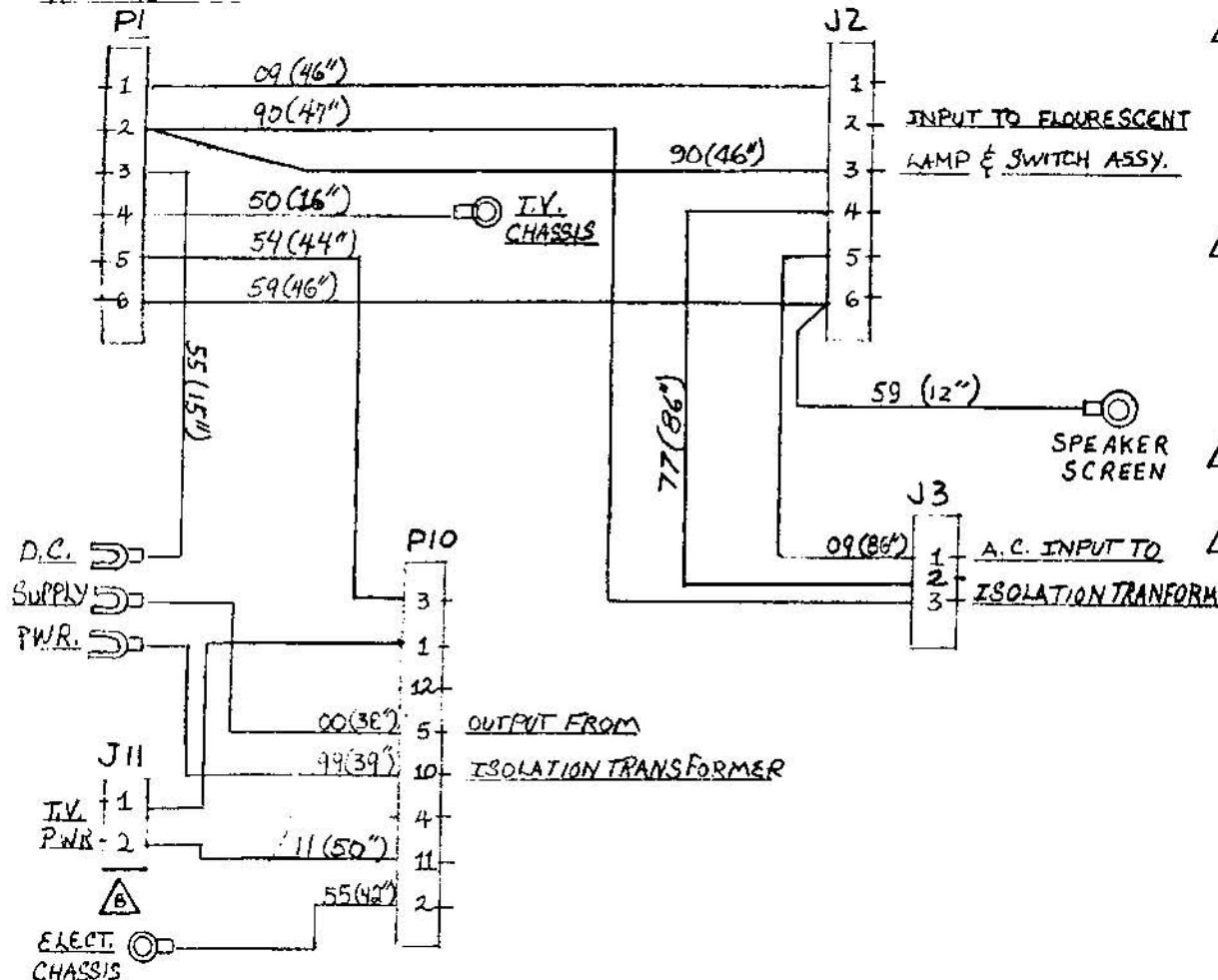
| | | | |
|--|--|--|--|
| | | | |
| | | | |
| | | | |
| | | | |

QC. APV'D PROD. APV'D QTY. ASSEMBLY NO

| REV. LET. | ECN NO. | REVISION | BY | TOLERANCES | | NAME | centur ^{inc} HIALEAH, FLORIDA 33014 | | |
|--------------|------------|----------|----|----------------------------|-----------------|---------|---|----------|------|
| | | | | Unless Otherwise Specified | | | | | |
| | | | | FRACTIONS | $\pm 1/32$ | | | | |
| | | | | DECIMALS 2 PL | $\pm .015$ | | | | |
| | | | | DECIMALS 3 PL | $\pm .005$ | | | | |
| | | | | HOLES | $\pm .003$ | | | | |
| | | | | | $- .001$ | | | | |
| | | | | ANGLES | $\pm 1/2^\circ$ | | | | |
| | | | | SHT. MET BENDS | $\pm 2'$ | | | | |
| | | | | DWN | APP'D. | DATE | SCALE | PART NO. | REV. |
| | | | | | | 2/14/83 | | 008-4884 | |

THE MATERIAL CONTAINED HEREIN IS CONFIDENTIAL
AND NO PART OF IT CAN BE REPRODUCED WITHOUT THE
EXPRESSED PERMISSION OF CENTURI, INC.

A.C. LINE CONN.



| WIRE GROUND 7' WIRE TIES | |
|--------------------------|--|
| 22 50 50151104 | Brown Wire #18AWG |
| 21 50 50157004 | Violet ^{Black} Stripe #18AWG |
| 20 | |
| 19 | |
| 18 58 50175904 | Green ^{White} Stripe #18AWG |
| 17 44 50175404 | Green ^{Yellow} Stripe #18AWG |
| 16 16 50175004 | Green ^{Black} Stripe #18AWG |
| 15 13 50170904 | Black ^{White} Stripe #18AWG |
| 14 93 50179004 | White/Black Stripe #18AWG |
| 13 86 50177704 | VIOLET WIRE #18AWG |
| 12 57 50175504 | Green WIRE #18AWG |
| 11 39 50170004 | White WIRE #18AWG |
| 10 38 50174904 | Black WIRE #18AWG |
| 9 1 50150231 | 3 PIN RECEPTE WIRE & TABS MOLEX #03-09-1031 |
| 8 9 50150278 | FEMALE PINS REEL MOLEX #02-09-1116 |
| 7 12 50150277 | MALE PINS REEL MOLEX #02-09-2116 |
| 6 3 50150096 | CENTER LUG HOLLIS SAUER #PS-421162B |
| 5 3 50150105 | RING LUG HOLLIS SAUER #R412338-2 |
| 4 1 50150322 | ZCKT RECEP MOLEX #03-09-1029 |
| 3 1 50150260 | 6 PIN PLUG W/ EARS MOLEX #03-09-2061 |
| 2 1 50150262 | 6 PIN RECEP W/ EARS MOLEX #03-09-1062 |
| 1 1 50150261 | 12 PIN PLUG W/ EARS MOLEX #03-09-2172 |

| CENTURI PART NO. Bill of Materials | | | |
|------------------------------------|-------------|------|-------------|
| QC. APV'D | PROD. APV'D | QTY. | ASSEMBLY NO |
| | | | |
| | | | |
| | | | |

AF 178964

| REV. LET. | ECN NO. | REVISION | BY |
|-----------|---------|---|-----|
| B | | ADDED ITEM 4: CHG10 QTY ITEM 769 // J11, J3, P1 P10 DELETED TV POW. 3F20 | 61 |
| A | 370-24 | ADDED GREEN/WHITE WIRE - 12" AND 1 EA RING LUG #50150105 | JTS |

| TOLERANCES | | | |
|----------------------------|--------|--|--|
| Unless Otherwise Specified | | | |
| FRACTIONS | ± 1/32 | | |
| DECIMALS 2 PL | ± .015 | | |
| DECIMALS 3 PL | ± .005 | | |
| HOLDS | ± .003 | | |
| ANGLES | ± 1/2° | | |
| SHT. MET BENDS | ± 2° | | |

| centuri | | | | HIALEAH, FLORIDA 33014 | |
|-----------------------|--------|---------|-------------|------------------------|--------|
| NAME | | MATL'S. | | HEAT TREAT. | FINISH |
| Cabinet Power Harness | | | | | |
| QTY. | DATE | SCALE | PART NO. | REV. | |
| 1 | 5-6-81 | X | 370-12-0200 | B | |

BILL OF MATERIALS

MUNCH MOBILE

| PART NUMBER: | DESCRIPTION: | QTY.: |
|--------------|--------------------------------------|-------|
| 501-0165 | 74LS11 Triple 3-Input and | 2 |
| 501-0112 | 74LS10 Triple 3-Input Nand | 2 |
| 501-0146 | 74LS164 8Bit Shift Register | 1 |
| 501-0102 | 74LS00 Quad 2-Input Nand | 4 |
| 501-0153 | 74LS08 Quad 2-Input and | 1 |
| 501-0129 | 74LS107 Dual J-K Flipflop w/clear | 2 |
| 501-0121 | 74LS74 Dual D-Type Flipflop | 6 |
| 501-0114 | 74LS20 Dual 4 Input Nand | 6 |
| 501-0108 | 74LS04 Hex Inverter | 8 |
| 501-0156 | 74LS32 Quad 2-Input or | 5 |
| 501-0135 | 74LS174 Hex D-Type Flipflop | 1 |
| 501-0137 | 74LS161 Synchronous 4 Bit Counter | 2 |
| 501-0141 | 74LS157 Quad 2 To Line 1 Multiplex | 10 |
| 501-0200 | 74LS138 3 To 8 Line Mulitplexer | 1 |
| 501-0184 | 74LS163 4 Bit Binary Counter | 7 |
| 501-0139 | 74LS85 4 Bit Magnitude Comparator | 3 |
| 501-0125 | 74LS86 Quad 2-Input Excl or | 6 |
| 501-0207 | 74LS283 4 Bit Binary Full Adder | 12 |
| 501-0205 | 74LS273 Octal D-Type FF | 3 |
| 501-0202 | 74LS245 Tristate Octal Tranceiver | 3 |
| 501-0117 | 74LS30 8-Input Nand | 1 |
| 501-0439 | 74LS158 2 To 1 Data Sel./MPXR | 2 |
| 501-0133 | 74LS166 8 Bit Shift Register | 3 |
| 501-0440 | 74S201 Static Ram. | 10 |
| 501-0174 | 74LS191 Sync. Up/Down Binary Counter | 2 |
| 501-0209 | 74LS366 Hex Tristate Inv. Buffer | 4 |
| 501-0158 | 74LS175 Quad D-Type Flipflop | 1 |

Con't.

| PART NUMBER: | DESCRIPTION: | QTY.: |
|--------------|------------------------------------|-------|
| 501-0172 | 74LS155 Decoder | 1 |
| 501-0156 | 74LS32 Quad 2-Input Or | 1 |
| 501-0224 | 555 Precision Timer | 1 |
| 501-0204 | 74LS374 Octal D-Type Tristate | 1 |
| 501-0148 | 74LS151 1 To 8 Data Multiplexer | 1 |
| 501-0146 | 74LS164 8 Bit Shaft Register | 1 |
| 501-0170 | 74LS139 2 To 4 Line Decoder | 1 |
| 501-0250 | Z-80A Microprocessor | 2 |
| 500-0008 | 2732 4KX8 E Prom | 4 |
| 500-0023 | 2764 E Prom | 3 |
| 506-1000 | 8 Position Dip Switch | 2 |
| 514-1570 | 40 Pin IC Socket | 2 |
| 514-1572 | 28 Pin I.C. Soldertail Socket | 3 |
| 514-1571 | 24 Pin I.C. Soldertail Socket | 4 |
| 501-0290 | MB3712 FUJITSU Audio Amp | 1 |
| 501-0233 | MB3713 FUJITSU Audio Amp | 1 |
| 408-3007 | Heat Sink Munch Mobile | 2 |
| 409-1238 | P.C.B. Toggle Sw. | 1 |
| 501-0205 | 74LS273 Octal D-Type FF | 9 |
| 501-0131 | 74LS153 Dual 4 To 1 Multiplexer | 2 |
| 501-0133 | 74LS166 8 Bit Shaft Register | 4 |
| 501-0153 | 74LS08 Quad 2-Input And | 3 |
| 501-0161 | 7407 Hex Buffer OC | 2 |
| 501-0202 | 74LS245 Tristate Octal Tranceiver | 2 |
| 501-0141 | 74LS157 Quad 1 To 1 Line Multiplex | 7 |
| 501-0405 | 2114 1k. x 4 Static Ram 300NS. | 6 |
| 501-0214 | 74LS244 Octal Buffer/Driver | 7 |

Con't.

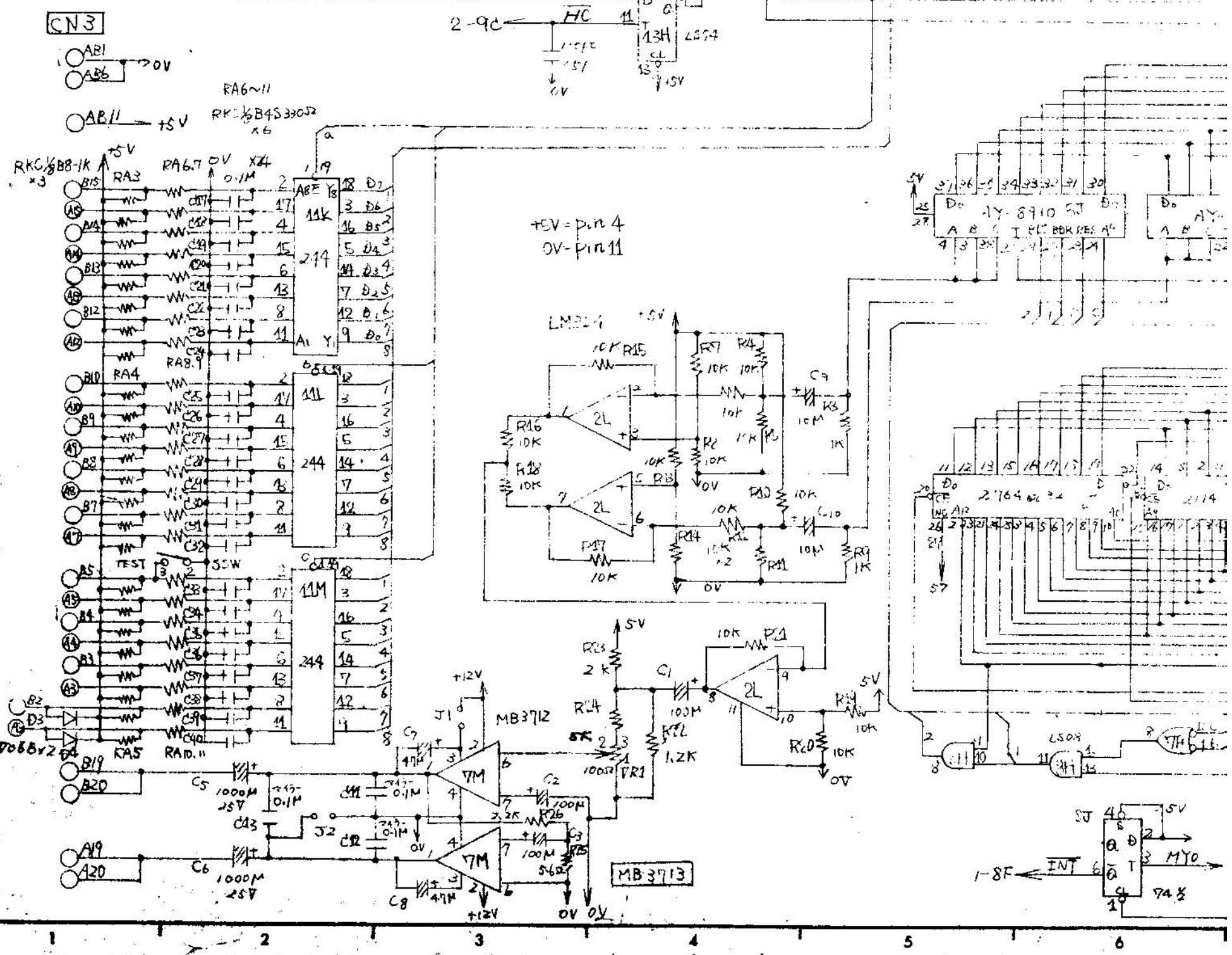
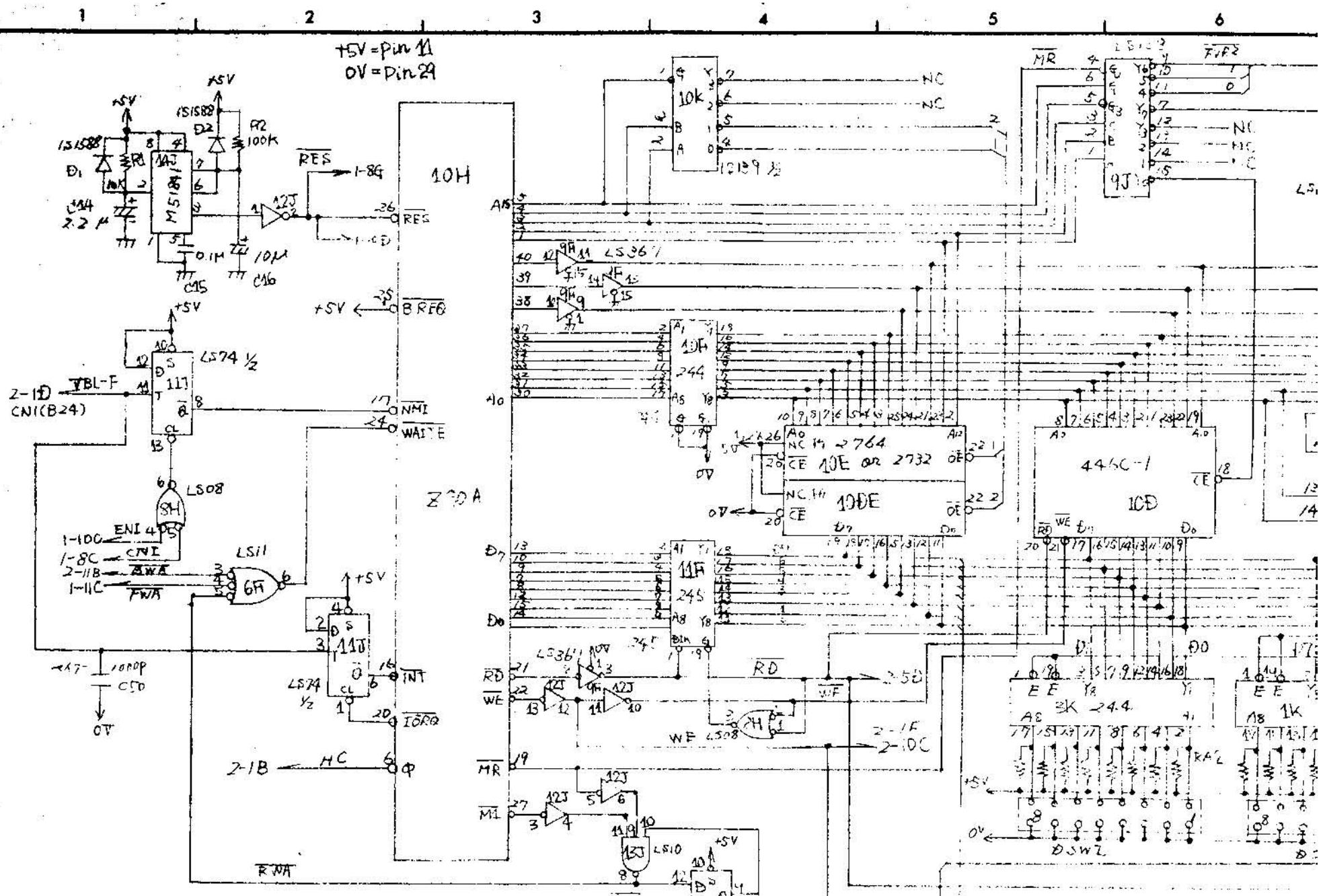
| PART NUMBER: | DESCRIPTION: | QTY.: |
|--------------|------------------------------------|-------|
| 501-0135 | 74LS174 Hex D-Type Flipflop | 3 |
| 501-0438 | MB7124E I.C. | 1 |
| 501-0125 | 74LS86 Quad 2-Input Excl or | 5 |
| 501-0112 | 74LS10 Triple 3-Input Nand | 2 |
| 501-0108 | 74LS04 Hex Inverter | 4 |
| 501-0121 | 74LS74 Dual D-Type Flipflop | 4 |
| 501-0102 | 74LS00 Quad 2-Input Nand | 3 |
| 501-0117 | 74LS30 8-Input Nand | 1 |
| 501-0253 | 74LS373, Octal D-Type Latches | 1 |
| 501-0207 | 74LS283 4 Bit Binary Full Adder | 3 |
| 501-0165 | 74LS11 Triple 3-Input And | 1 |
| 501-0176 | 74LS367 Hex Buffer Tristate Output | 1 |
| 501-0200 | 74LS138 3 To 8 Line Multiplexer | 2 |
| 504-1031 | 330 OHM 1/4W 5% 9 Pin Resis. | 6 |
| 504-1024 | 1K OHM 1/4W 5% 9 Pin Sip | 3 |
| 504-1036 | 4.7 K 1/4W 5% Res. Array 9 Pin | 2 |
| 503-0417 | 10K OHM 1/4W 5% Resistor | 19 |
| 503-0453 | 2K OHM 1/4W 5% Resistor | 12 |
| 503-0436 | 6.8 K OHM 1/4W 5% Resistor | 3 |
| 503-0413 | 1K OHM 1/4W 5% Resistor | 5 |
| 503-0403 | 1.2K OHM 1/4W 5% Resistor | 9 |
| 503-0406 | 100K OHM 1/4W 5% Resistor | 1 |
| 515-0705 | 0.1 MFD 16V Ceramic Disc Capacitor | 56 |
| 515-0748 | 100PFD, 50V, Disc Ceramic Cap. | 1 |
| 503-0400 | 2.2K OHM 1/4W 5% Resistor | 1 |
| 517-0765 | 0.1 MFD 50V Mylar Capacitor | 4 |
| 517-0766 | 0.001 MF 50V Mylar Cap. | 2 |

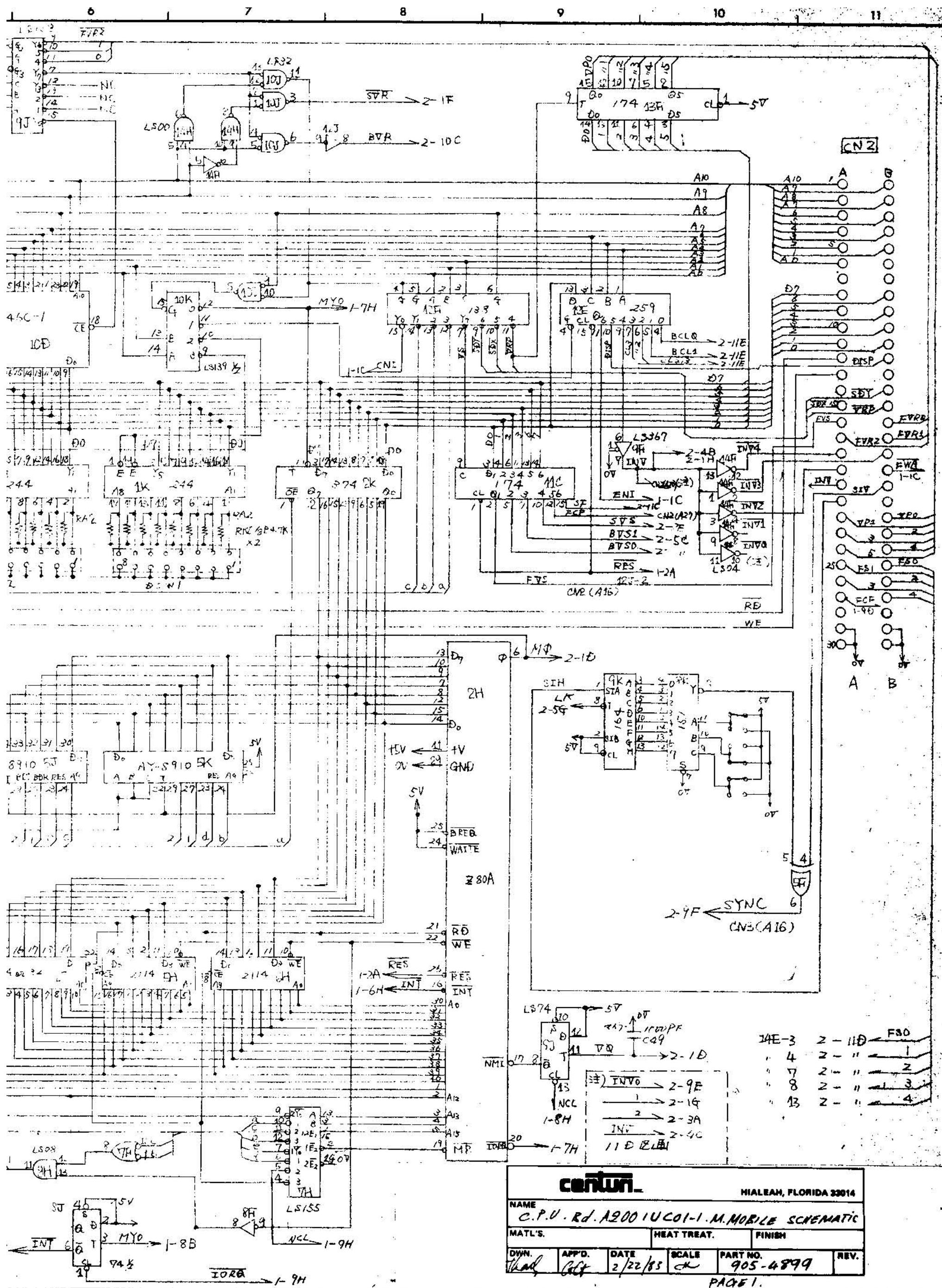
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| PART NUMBER: | DESCRIPTION: | QTY.: |
|--------------|------------------------------------|-------|
| 500-0023 | 2764 E Prom | 4 |
| 507-0569 | 15 MHZ Crystal | 1 |
| 514-1572 | 28 Pin I.C. Soldertail Socket | 4 |
| 401-1379 | 6 Pos. Sq. Pin R. Angle Wafer | 1 |
| 401-1381 | 60 Pos. P.C.B. Str. Header | 2 |
| 515-0705 | 0.1 MFD 16V Ceramic Disc Capacitor | 39 |
| 515-0822 | 270 PFD. 25V. Disc Ceramic Cap. | 3 |
| 517-0766 | 0.001 MF 50V Mylar Cap. | 1 |
| 517-0763 | 0.0047 MFD 25V Mylar Capacitor | 1 |
| 503-0413 | 1K OHM 1/4W 5% Resistor | 2 |
| 503-0405 | 4.7K OHM 1/4W 5% Resistor | 2 |
| 503-0433 | 220 OHM 1/4W 5% Resistor | 1 |
| 515-0806 | 10PF 50V 5% Ceramic Capacitor | 1 |
| 516-0819 | 100 MFD 16V Radial EE Capacitor | 1 |
| 515-0821 | Capacitor Strip (M.M.) | 2 |
| 504-1036 | 4.7 K 1/4W. 5% Res. Array 9 Pin | 2 |
| 513-1146 | A2001UC01-1 P.C.B. Card | 1 |
| 514-1588 | 14 Pin S.I.P. Socket | 2 |
| 513-1147 | A2001UC03 P.C.B. Card | 1 |
| 501-0446 | 2114A-10L Static Ram | 6 |
| 501-0441 | MB8416-20 (6166) | 3 |

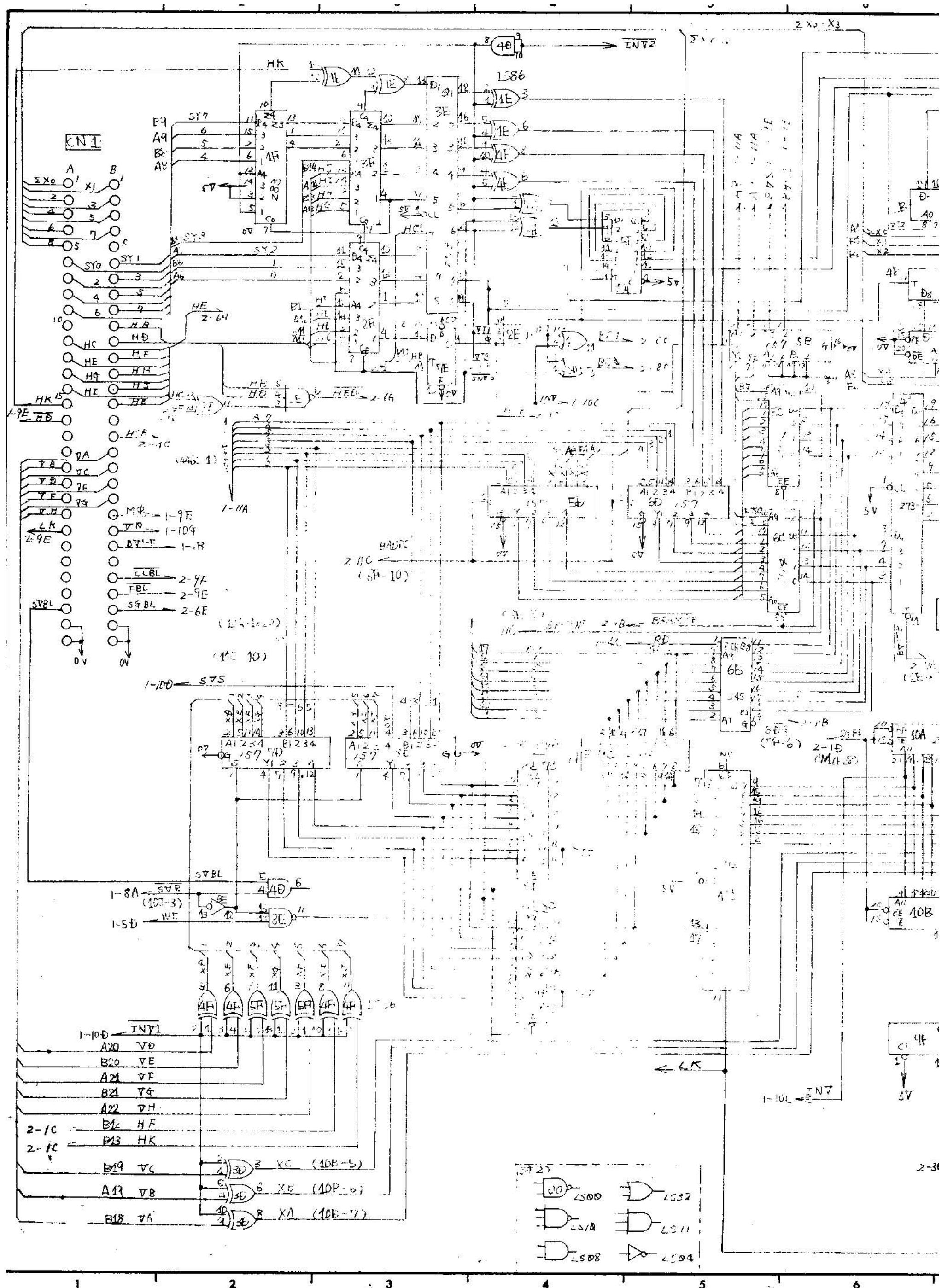
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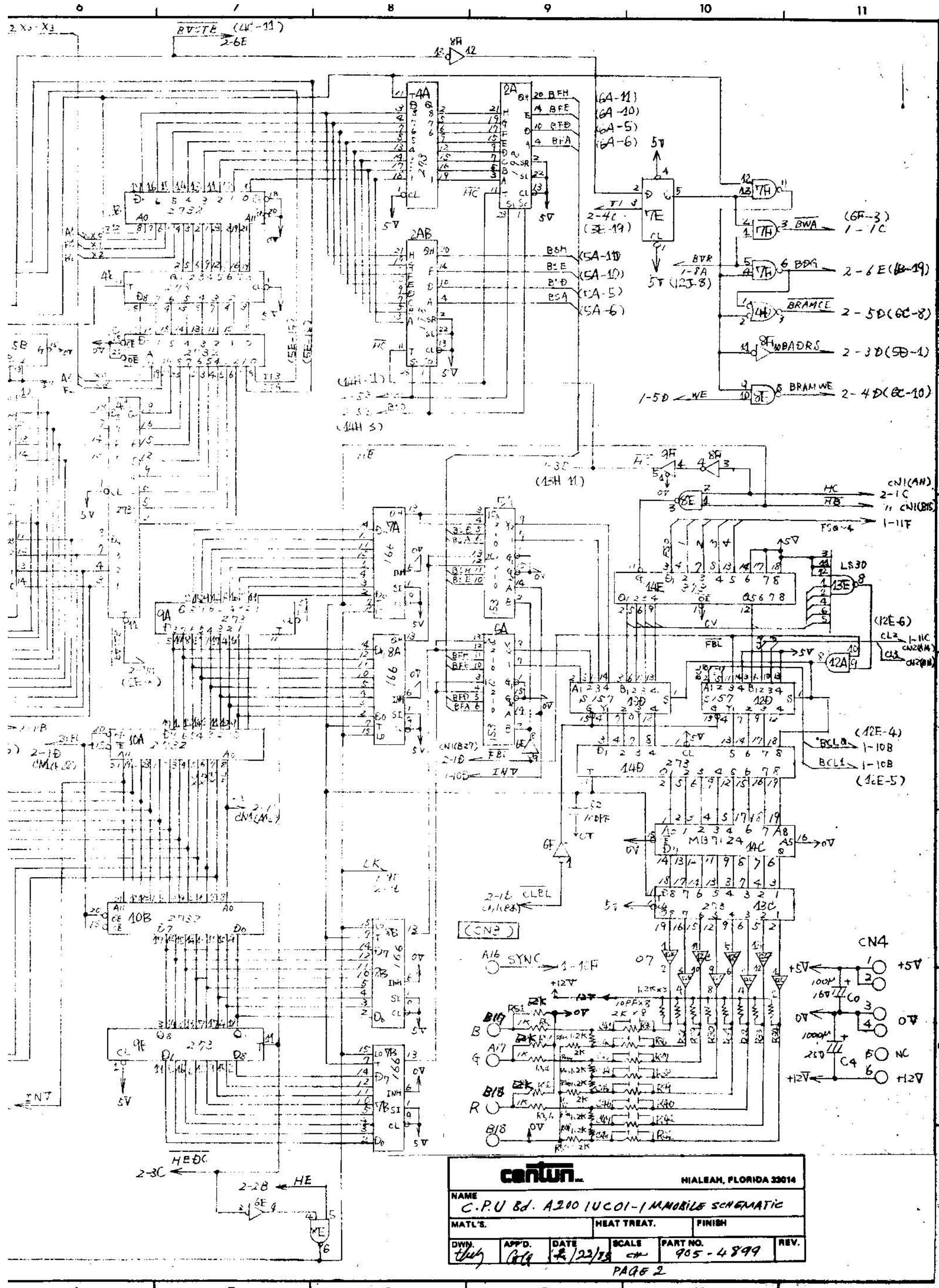
| PART NUMBER: | DESCRIPTION: | QTY.: |
|--------------|-------------------------------------|-------|
| 516-0805 | 1000 MFD 25V Axial EE Capacitor | 3 |
| 516-0819 | 100 MFD 16V Radial EE Capacitor | 4 |
| 516-0821 | 47 MFD 25V Radial Electrolytic Cap. | 2 |
| 516-0818 | 10 MFD 16V Aluminum EE Capacitor | 2 |
| 510-0679 | V06B DIODE | 2 |
| 510-0611 | 1S1588 DIODE | 2 |
| 401-1378 | 40 Pos. Str. P.C.B. Header w/Eject. | 1 |
| 401-1379 | 6 Pos. Sq. Pin R. Angle Wager | 1 |
| 519-0869 | 10 MFD 16V Dipped Tantalum Cap. | 1 |
| 519-0859 | 2.2 MFD 16V Tantalum Capacitor | 1 |
| 401-1380 | 60 Pos. P.C.B. Trans. Connector | 2 |
| 513-1145 | A2001UC02-1 P.C.B. Card | 1 |
| 515-0821 | Capacitor Strip (M.M.) | 2 |
| 501-0237 | AY-3-8910 P.S.G. | 2 |
| 501-0190 | 74LS259 8-Bit Latch | 1 |
| 508-0002 | MB3614 Or LM324J Op-Amp. | 1 |





| | | | | | |
|--|---------------|-----------------|------------------------|----------------------|-----------|
| CONTIN. | | | HIALEAH, FLORIDA 33014 | | |
| NAME C.P.U. Rd. 12001UC01-1.M. MOBILE SCHEMATIC | | | | | |
| MATERIALS. | | | HEAT TREAT. FINISH | | |
| DRAWN. Hand | APP'D. GFT | DATE 2/22/85 | SCALE CK | PART NO. 905-4899 | REV. 1 |
| PAGE 1. | | | | | |

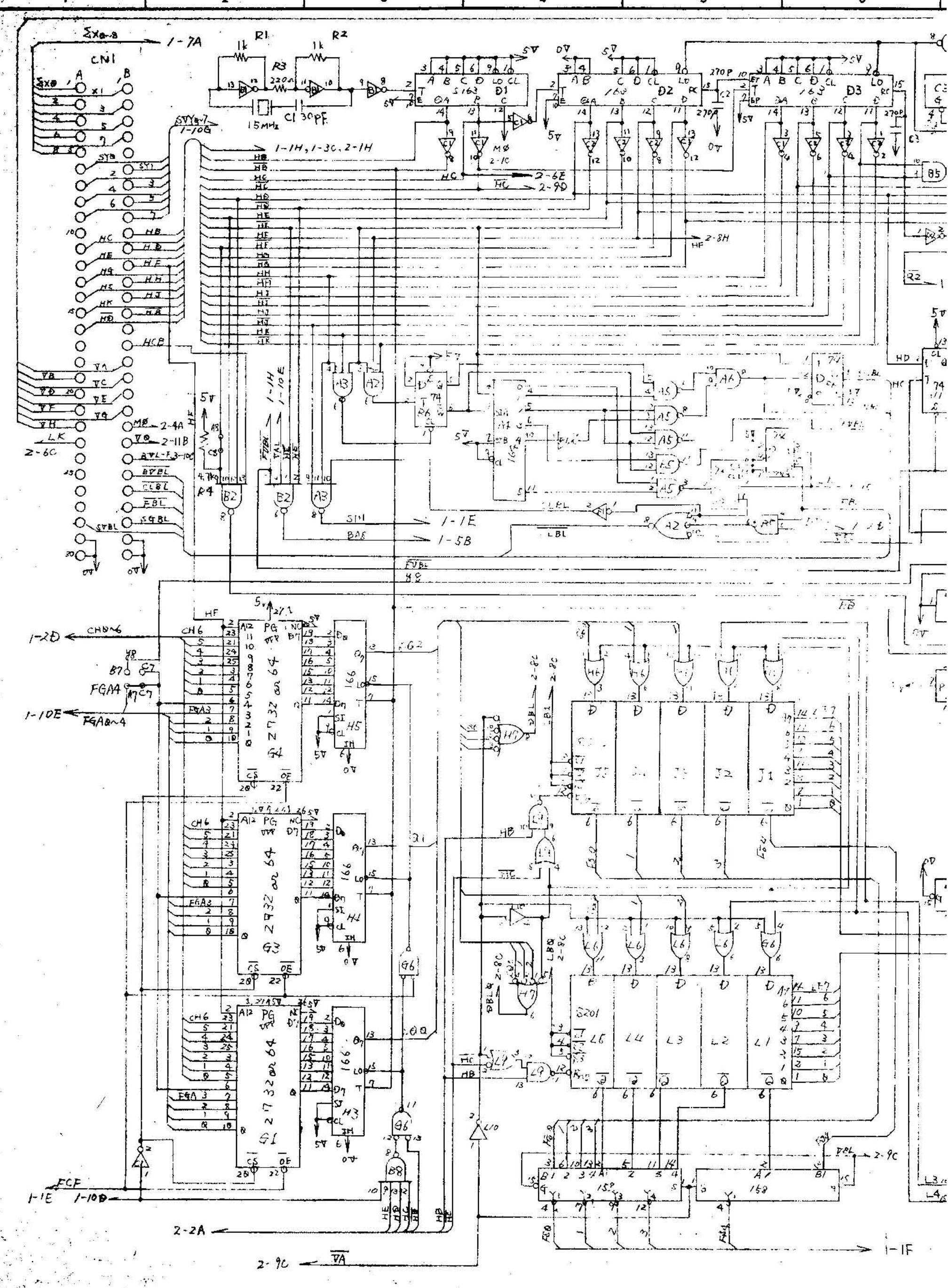


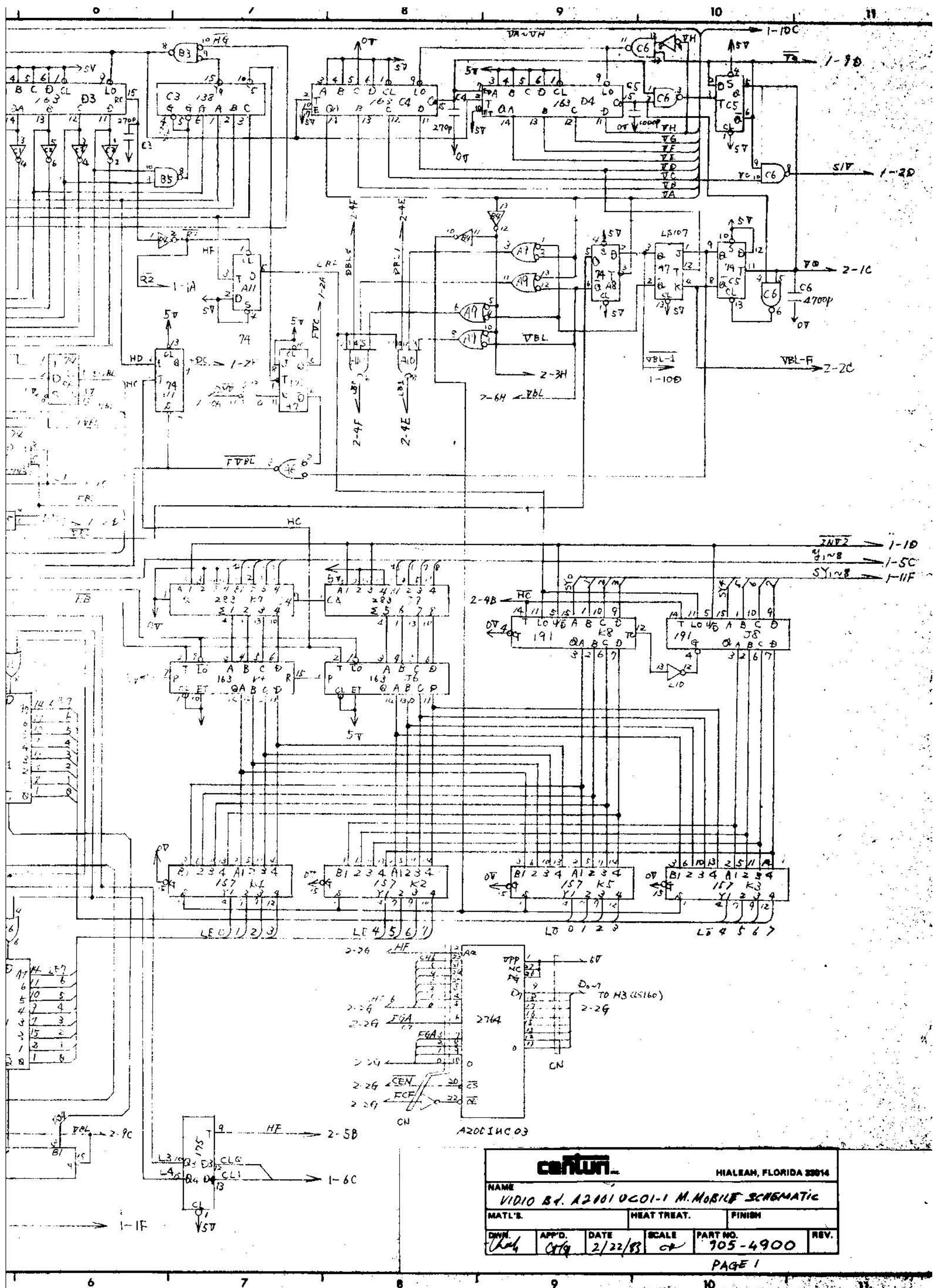


cont'd

HIALEAH, FLORIDA 33014

| | | | | |
|---|---------------------------|------------------------|--------------------|-----------------------------|
| NAME <u>C.P.U Bd. A200 IUC01-1 MM MOBILE SCHEMATIC</u> | | | | |
| MATERIALS. | | HEAT TREAT. | FINISH | |
| DRAWN BY <u>thib</u> | APPROVED BY <u>gfa</u> | DATE <u>2/22/75</u> | SCALE <u>cm</u> | PART NO. <u>905-4899</u> |
| | | | | REV. |





| | | | | |
|--|------------------------------|-------------------------------|--------------------------|------------------------------------|
| centronics | | HIALEAH, FLORIDA 33014 | | |
| NAME <i>VIDIO B&W 12001 UC01-1 M. MOBILE SCHEMATIC</i> | | | | |
| MATL'S. | | HEAT TREAT. | FINISH | |
| DRAW. <i>1/101</i> | APP'D. <i>John</i> | DATE <i>2/22/03</i> | SCALE <i>✓</i> | PART NO. <i>705-6900</i> |
| REV. | | | | |

