

CENLUITI

Manual No.375-10-0100

NGUAR ANGUAR ANGUAR VANGUARI ANGUAR ANGIAR

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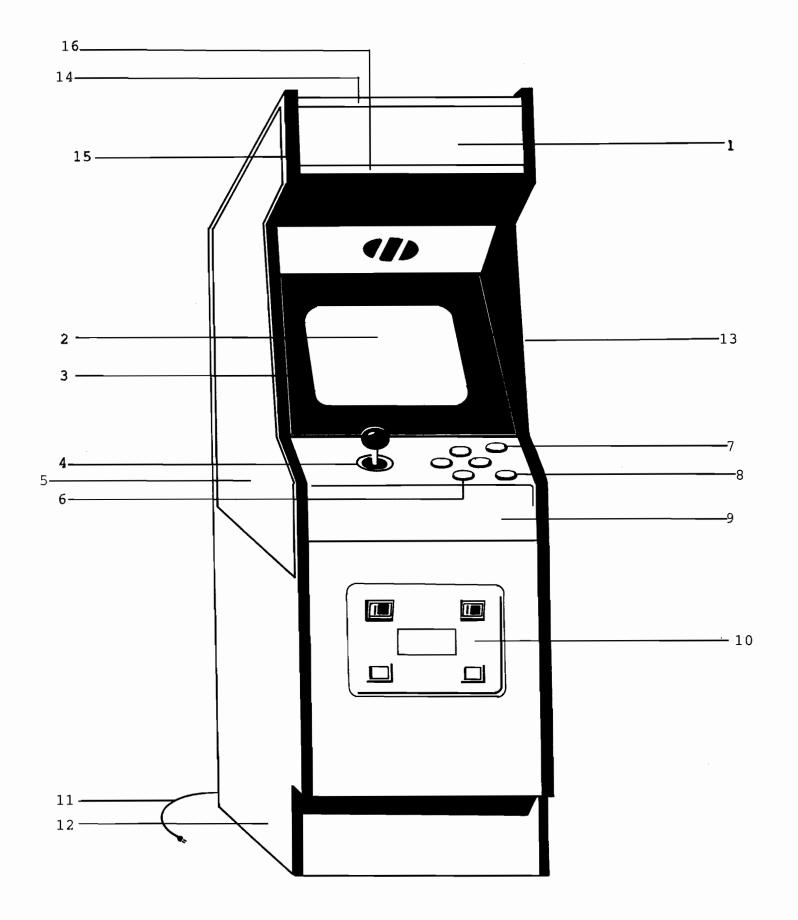
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USER INFORMATION - F.C.C.

WARNING:

THIS EQUIPMENT GENERATES, USES AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDDANCE WITH THE INSTRUCTIONS 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.



(FIG,1) CABINET

CABINET (FIGURE 1) PARTS LIST

\underline{NO} .	CENTURI P/N:	DESCRIPTION:
1.	375-06-0100	MARQUEE PANEL, SILK SCREENED
2.	361-04-1000	VIEWING GLASS
3.	375-06-0500	SILK SCREENED MONITOR OVERLAY
4.	50130070	JOYSTICK, 8 POSITION
5.	375-06-0200	LEFT HAND SIDE DECAL
6.		FIRE BUTTONS
7.		ONE PLAYER START BUTTON
8.		TWO PLAYER START BUTTON
9.	375-14-0100	CONTROL DECK WIRED ASSEMBLY
10.	360-14-0700	COINCO COIN DOOR (MODIFIED)
11.	361-12-0900A	A.C. LINE CORD HARNESS
12.	375-01-0900	WOOD CABINET ASSEMBLY
13.	375-06-0300	RIGHT HAND SIDE DECAL
14.	343-03-0200	MARQUEE TOP HOLD DOWN BRACKET
15.	361-10-0200	VINYL TRIM, 7 1/2" LONG
16.	361-03-0100	MARQUEE BOTTOM HOLD DOWN BRACKET

VANGUARD is the newest addition in the line of Centuri video games. With its many colorful visual effects and unusual audio effects, this game is sure to be a challenge to even the most experienced player.

In this game there are twelve tunnels (rounds) to accomplish, with eight stages of play in the first tunnel, each varying in the remaining eleven tunnels.

A tunnel barometer found in the upper right corner of the viewing glass indicates which tunnel of play your spaceship is in. It also points out the exact position of your spaceship in each tunnel of play.

The first stage in tunnel one begins with a commanding voice bidding, "BON VOYAGE" to the spaceship. The ship journeys through a tunnel bordered with mountains of cubes, hued in blue and green. A short distance into the tunnel, the spaceship encounters the enemy Harley (50 Points) and Mist (70 Points). The spaceship must protect itself by firing upon the enemy with its four-directional missiles. When the spaceship passes through an Energy Zone, it becomes "energized", enabling it to crash into enemy rockets and missiles, and bordering mountains without destroying itself.

When the ship has successfully completed its journey through this zone, it proceeds to meet the challenges of stage II.

In this second stage of play, the spaceship travels upward through the Rainbow Zone, a tunnel edged with a rocky canyon of blue and white. Here it must defend itself against Helm (80 Points), a hazy white enemy ship, while travelling clear of destructive obstacles.

When the spaceship has completed its journey through this zone, it enters the unknown dimensions of the Stick Zone.

In this third stage of play, the spaceship continues its journey through the Stick Zone, a tunnel bordered with bright colored mountains, peaked in sticks of orange and green. A short distance into this tunnel, the spaceship again encounters the enemy Harley (50 Points) and Mist (70 Points). Successfully defending itself against these enemy ships, the spaceship proceeds into the rocky dimensions of stage IV.

In this stage, the spaceship descends through a second Rainbow Zone. Here it encounters the hazy pink enemy, Ammo (120 Points). Safely completing the distance of this Rainbow Zone, the spaceship enters the challenges of the Stripe Zone.

In this fifth stage of play, the spaceship must maneuver around mountains of stripes, bordered with a city of enemy bases and barriers.

These bases (100-400 Points) and barriers (800 Points), must be destroyed upon approach or the spaceship will explode upon contact. The spaceship must also dodge the path of Garime (100-400 Points), an enemy whose tentacles reel in and out waiting to destroy the passing spaceship.

When the end of the Stripe Zone is reached, the spaceship then ascends through another Rainbow Zone, encountering once again the enemy Helm (80 Points). This completes the spaceship's journey through stage VI.

Stage VII brings the spaceship into the dimensions of the Bleak Zone. Here a tunnel, bordered it tufts of finger-shaped obstacles, sweeps the spaceship upward where it first encounters the enemy Kemlus (100-400 Points), a laughing snake enemy. The spaceship may dock in the direct center of this enemy three times without being destroyed. With each successful dock a bonus of 1,090 Points is awarded.

Further into the Bleak Zone, the spaceship encounters a meteor-like enemy Romeda (100 Points). This enemy falls down through the tunnel in an attempt to crash into the spaceship and destroy it. Safely defeating the enemy of the Bleak Zone, the spaceship continues its journey to its final destination, stage VIII.

In this stage, the spaceship enters the Dock Zone, a tunnel outlined in silver and ruled by the enemy Gond (1,000-8,000 Points). When the spaceship has successfully attacked and destroyed this ruling enemy, a commanding voice shouts, "CONGRATULATIONS", while bursts of crystal light flash across the screen to designate a successful completion of the mission and the start of a new round.

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 Figure-8- and 110/220 VAC conversion instructions.

Power Supply Chasis schematic information and parts list are included in this manual.

FIGURE -1-

110/220 VAC CONVERSION INSTRUCTIONS

This video game has a harness configuration that allows the machine to be operated from either a 110 VAC or 220 VAC, 50 or 60 Hz power source. All games shipped from Centuri, Inc., are in the 110 VAC configuration. To change to the 220 VAC configuration perform the following:

FIRST: Unplug the machine from the wall outlet to completely eliminate shock hazards.

SECOND: Remove the single 3 AMP slow-blow fuse in the A.C. Distrubution Bracket, and install two(2) 1.5 AMP slow-blow fuses. Now cut the #18 AWG. white jumper wire at both ends of the fuse holder and replace the cover.

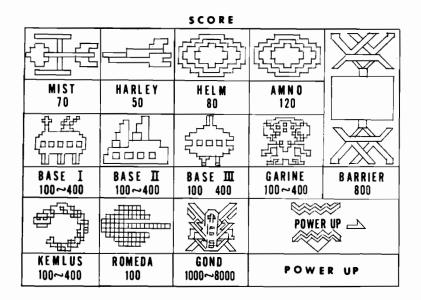
THIRD: Locate the "orange" jumper plug marked 110 VAC on the game power transformer, on the floor of the machine. Unplug the "orange" jumper, and plug in the "red" jumper plug marked 220 VAC.

To change back to 110 VAC, replace the components changed in 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.

GAME INSTRUCTIONS

- 1. INSERT COIN(S).
- 2. SELECT 1 OR 2 PLAYER BUTTON.
- 3. USE THE JOYSTICK TO GUIDE YOUR SPACESHIP WITHIN THE TUNNEL BOUNDARIES WHILE AVOIDING OBSTACLES AND ENEMY MISSILES.
- 4. USE THE DIRECTIONAL FIRE BUTTONS TO DESTROY ATTACKING ENEMY.
- 5. ENTER THE ENERGY ZONE TO PROTECT YOUR SHIP AGAINST ATTACKING ENEMY AND OBSTACLES. SCORE POINTS BY CRASHING INTO ENEMY ROCKETS AND BASES.
- 6. UPON REACHING YOUR DESTINATION, MYSTERY CITY, SCORE A MYSTERY BONUS WHEN YOU HAVE SUCCESSFULLY ATTACKED THE GOND.
- 7. EARN EXTRA BONUS SHIPS AT 10,000 AND 50,000 POINTS.



OPERATOR OPTIONAL SWITCH SETTINGS

The option switches are located on the SK-5 board. The option switches and audio control can be reached through the back of the machine.

OPTIONAL SWITCH SETTINGS

<u>SWITCH 1</u>: OFF- MUST REMAIN OFF FOR UPRIGHT CABINET
ON- UPRIGHT CABINET SWITCH

SWITCH 2: FACTORY SETTING; REMAINS IN OFF POSITION

SWITCH 3: FACTORY SETTING; REMAINS IN OFF POSITION

SWITCH 4: FACTORY SETTING; REMAINS IN OFF POSITION

Switches 5 and 6 control the number of times the player may have his spaceship destroyed before the game is over. The following truth table lists these switch settings:

SWITCH 5	SWITCH 6	NUMBER OF SPACESHIPS
OFF	OFF	3
ON	OFF	4
OFF	ON	5

SWITCH 7: OFF- 25¢ PER GAME

ON- 50¢ PER GAME

SWITCH 8: NON-FUNCTIONAL

ROUTINE MAINTENANCE & SERVICE

Because of the solid state electronic circuitry, this machine should require very little maintenance and only occasional adjustments. However, it is necessary to take measures 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. Occasionally minor adjustments are necessary. See monitor specifications and schematics for technical information. Adjustment controls for the monitor are located at the rear of the monitor.

This machine should be serviced only by a qualified technician.

Do not make any adjustments on this machine while the power is on.

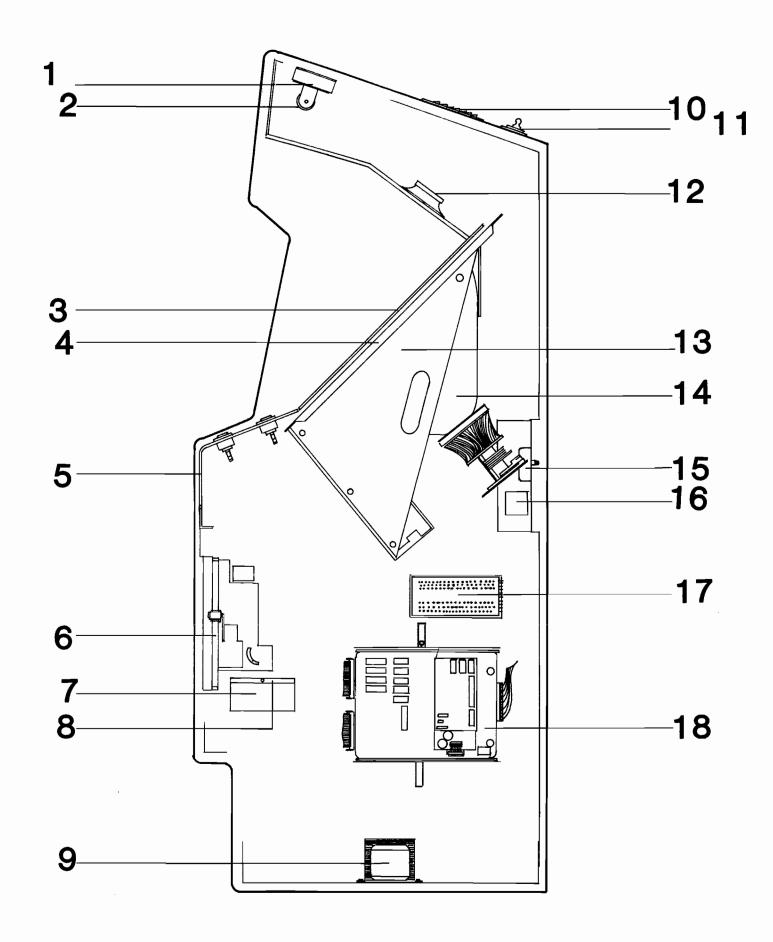
For service information, contact:

CENTURI, INC.

Customer Service Department #800-327-7710(Outside the state of Florida) #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 that 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,4) CABINET CROSSECTION.

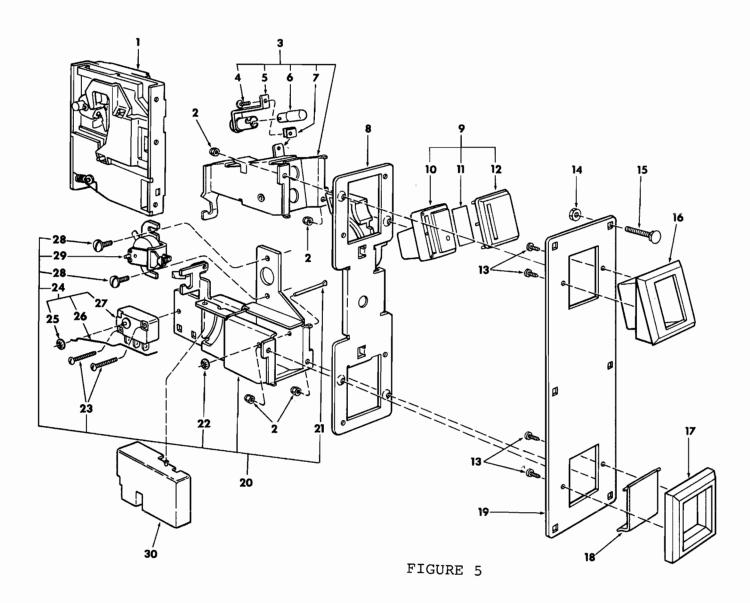
CABINET CROSSECTION

(FIGURE 4)

PARTS LIST

NO.	CENTURI P/N:	DESCRIPTION:
1.	361-14-0300A	FLOURESCENT LAMP & WIRED ASS'Y.
2.	50180031	G.E. 15 WATT FLOURESCENT LAMP
3.	361-04-1000	VIEWING GLASS
4.	375-06-0500	SILK SCREENED MONITOR OVERLAY
5.	375-14-0100	CONTROL DECK WIRED ASS'Y.
6.	360-14-0700	COINCO COIN DOOR (MODIFIED)
7.	276-01-44	CASH BOX WELDED ASS'Y.
8.	360-03-1200A	CASH BOX COVER
9.	361-14-0200A	ISOLATION TRANSFORMER WIRED ASS'Y.
10.	322-03-1300	LOUVRE PLATE
11.	343-08-1400	HANDLE, PULL
12.	50200011	SPEAKER, 5" ROUND, 8 OHM, 8 WATT
13.	50250021	WELLS-GARDNER COLOR MONITOR, 19"
14.		C.R.T. ONLY- 19" COLOR
15.	50130045	INTERLOCK SWITCH
16.	50340001	LINE FILTER
17.	50350001	POWER SUPPLY, SWITCHING REGULATOR
18.	375-10-0200A	P.C. BOARDS ASS'Y., MODIFIED

2800-0 FRONT PLATE EXPLODED VIEW 25¢ COIN



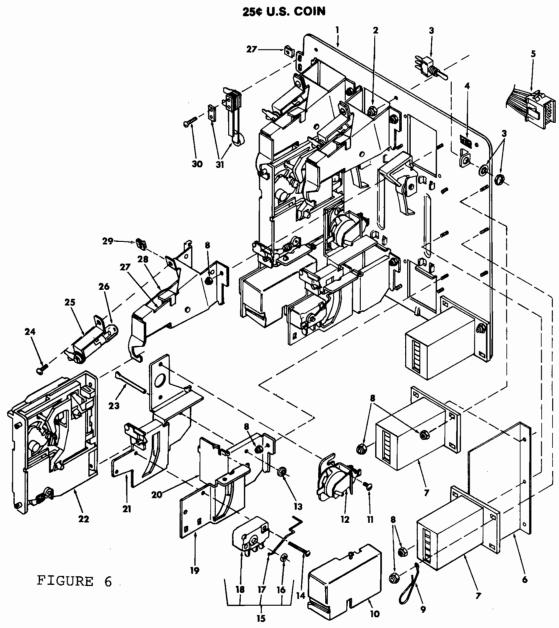
Index No.	Part No.	Description	Index No.	Part No.	Description
1	5301-10	25¢ Coin Acceptor	16	904588	Coin Inlet Housing
2	400-4	#4-40 Self Locking Nut	17	904590	Coin Return Cover
3	404351	Coin Inlet Chute Assembly	18	904599	Coin Return Door
4	110-4-6	4 x 3/8 Screw	19	404463	Frontplate Assembly, 3-1/8" 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	29	404354	12 Volt Crem Assembly
		(Mounting Hardware)	30	904762	Switch Cover
15	905022	#10-24 x 1-1/8 Carriage Bolt (Mounting Hardware)			

2800-0 FRONT PLATE EXPLODED VIEW (FIGURE 5)

PARTS LIST

$\underline{\text{NO}}$.	CENTURI P/N:	MANUFACTURING P/N:	DESCRIPTION:
1.	50270144	5031-10	25¢ COIN ACCEPTOR
5.	50270169	904717	LAMP SOCKET
6.	50270170	904716	#47 LAMP(6.3 VOLT)
8.	50270172	404464	INNER PANEL/LEVER ASS'Y.
10.	50270145	904591	COIN RETURN BUTTON
11.	50270146	904703	25¢ PRICE DECAL
12.	50270147	904589-2	REJECT COVER BUTTON (25¢)
16.	50270149	904588	COIN INLET HOUSING
17.	50270157	904590	COIN RETURN BEZEL
18.	50270150	904599	COIN RETURN DOOR
19.	50270173	404463	FRONTPLATE ASS'Y.(3 ¹ /8"x9½")
21.	50270168	905115	BAR
25.	50270141	900651	RETAINER
26.	50270142	904710-1	SWITCH-WIRE, SILVER
27.	50130061	904845	SWITCH
29.	50270165	404354	12 VOLT C.R.E.M. ASS'Y.
30.	50270164	904762	SWITCH COVER

2800 SERIES COIN DOOR EXPLODED VIEW



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		Custom Harness Assembly	21	404428	Switch and C.R.E.M. Coil Bracket
6	904822	Insulation		404420	Assembly
7	404352	Coin Counter Assembly (6 Volt D.C.)	22	5301-10	25¢ Acceptor
8	400-4	Nut	23	905115	Bar
9	904722	Wire Key Holder	24	110-4-6	Screw
10	904762	Switch Cover	25	904717	Miniature Bayonet-Base Lamp
11	100-6-3	Screw	25	304717	Socket
12	404354	C.R.E.M. Coil Assembly.	26	904716	#47 Lamp (6.3 Volt)
		12 Volts D.C.	27	404418	Coin Inlet Chute Sub-Assembly
13	904936	Keeper	28	904594	Right Half of Coin Inlet Chute
14	100-4-12	Screw	29	904712	"U"-Type Fastener
15	404353	Coin Switch Assembly for U.S.	30	116-4-8	Screw
		25¢ Coin	31	904704	
16	900651	Retainer	31	304704	Slam Switch Assembly

2800 SERIES COIN DOOR EXPLODED VIEW

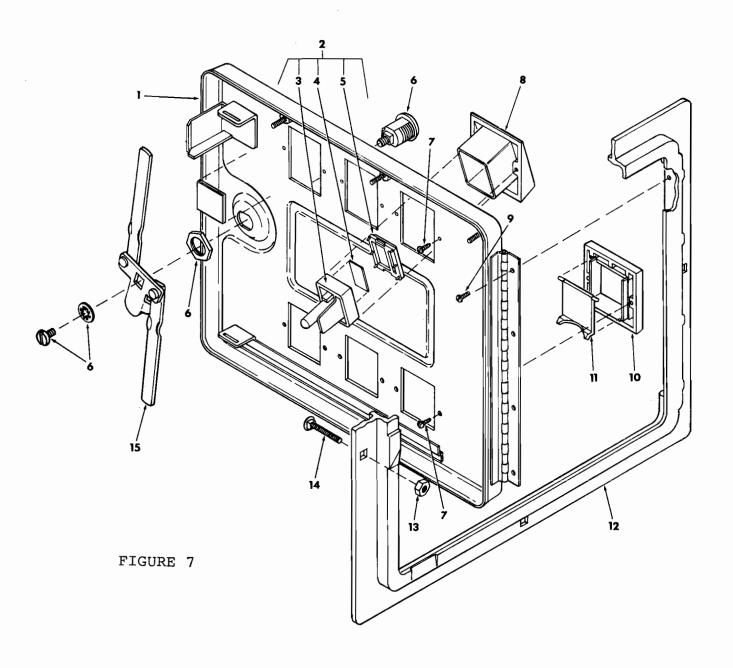
25¢ U.S. COIN

(FIGURE 6)

PARTS LIST

NO.	CENTURI P/N:	MANUFACTURING P/N:	DESCRIPTION:
1.	50270160	404429	INNER PANEL w/LEVERS SUBASS'Y.
3.	50130062	904782	TOGGLE SWITCH
4.	50270161	904706	TEST SWITCH DECAL
5.	364-62-1000A		CUSTOM HARNESS ASS'Y.
6.	50270162	904822	INSULATION
7.	50270140	404352	COIN COUNTER ASS'Y.
9.	50270163	904722	WIRE KEY HOLDER
10.	50270164	904762	SWITCH COVER
12.	50270165	404354	C.R.E.M. COIL ASS'Y. (12 VOLT D.C.)
17.	50270142	904710-1	SILVER SWITCH WIRE- FOR 25¢ U.S. COIN
18.	50130061	904845	SWITCH
19.	50270143	904701	COIN CHUTE
20.	50270166	904598	COIN RETURN BOX
21.	50270167	404428	SWITCH & C.R.E.M. COIL BRACKET ASS'Y.
22.	50270144	5301-10	25¢ ACCEPTOR
23.	50270168	905115	BAR ·
25.	50270169	904717	MINIATURE BAYONET-BASE LAMP SOCKET
26.	50270170	904716	#47 LAMP(6.3 VOLTS)
27.	50270171	404418	COIN INLET CHUTE-SUBASS'Y.
31.	50130063	904707	SLAM SWITCH ASSEMBLY

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



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	9	325-4-4	Screw
		U.S. 25¢ Coin	10	904590	Coin Return Bezel
3	904591	Coin Return Button	11	904599	Coin Return Cover
4	904703	U.S. 25¢ Price Decal	12	904581	Coin Door Frame, 11-5/8" x 13-3/8"
5	904589-2	Coin Return Button Cover for U.S. 25¢ Coin			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

$\underline{\text{NO}}$.	CENTURI P/N:	MANUFACTURING P/N:	DESCRIPTION:
1.	50270152	404341	COIN DOOR ONLY (2 COIN)
2.	50270158	404348-1	COIN DOOR BUTTON ASS'Y. FOR U.S. 25¢ COIN
3.	50270145	904591	COIN RETURN BUTTON
4.	50270146	904703	U.S. 25¢ PRICE DECAL
5.	50270147	904589-2	COIN RETURN BUTTON COVER
6.	50270148	904707-1	LOCK ASSEMBLY w/KEYS
8.	50270149	904588	COIN BUTTON HOUSING (INLET HOUSING)
10.	50270157	904590	COIN RETURN BEZEL
11.	50270150	904599	COIN RETURN COVER
12.	50270151	904581	COIN DOOR FRAME (11 5/8"x13 3/8")
15.	- 50270159	404357	LOCKING ARM ASSEMBLY

EXPLODED VIEW OF THE CONTROL PANEL

(FIGURE 2)

PARTS LIST

<u>NO</u> •	CENTURI P/N:	DESCRIPTION:
1, 10, 11.	50270174	KNOB & SHAFT ASS'Y. w/ACTUATOR & E RING
2.	50130048 50130049	WHITE BUTTON ASSEMBLY RED BUTTON ASSEMBLY
3.	375-06-0400	CONTROL PANEL OVERLAY
4.	375-03-0300A	CONTROL PANEL (SHEET METAL)
5.	50270175	PLASTIC WASHER, 2" DIA.
6.	361-10-0600D	HINGE, CONTROL DECK
7.	10111006	#10-24x3/4" CARRIAGE BOLT, BLK. OXIDE
8.	50270177	TOP PLATE FOR 8 POSITION JOYSTICK
9.	50130050	PAL NUT
12.	10150007	#10-24 KEP NUT

8 POSITION JOYSTICK ASSEMBLY- (WICO) (FIGURE 3) PARTS LIST

NO.	CENTURI P/N:	MANUFACTURING P/N:	DESCRIPTION:	<u>USAGE</u> :
1.	50270174	151419-01	KNOB & SHAFT ASS'Y. w/ACTUATOR & E RING	1
2.	50270175	15950401	PLASTIC WASHER, 2"DIA	M. 1
3.	50270176	15954101	TOP PLATE FOR 8 POSITION JOYSTICK	1
4.	50270177	15950501	BOTTOM WASHER	2
5.	50270178	15952301	DIAFRAGM	1
6.	50270179	15954201	SWITCH MOUNTING PLATE	1
7.	50270181	15108401	MOLDED BLADE SWITCH	4
8.	50270180	15954501	ACTUATOR GUARD	4
9.	50270182	15950601	SWITCH MOUNTING BRKT.	4

PARTS LIST - SHINDENGEN POWER SUPPLY

TRANSFORMER, SINGLE PHASE, 2A VA 1	SYMBOL:	DESCRIPTION:	USAGE:
D1 D	T1	TRANSFORMER, SINGLE PHASE, 2A VA	1
D1 D	L1 L2, L4 L3	CHOKING COIL, 1.6mH, 1.5A CHOKING COIL, SF-T8-50S-03 CHOKING COIL, SF-HP-2A-03	2
IC1 INTEGRATED CIRCUIT, RM723DC or HA17723G-02 1 PC1 PHOTO COUPLER, PS2001 1 R1 RESISTOR, 2 WATT, 18 OHM 1 R8, R9 RESISTOR, 2 WATT, 47K OHM 2 R3, 1-4 RESISTOR, 2 WATT, 15 OHM 4 R4 RESISTOR, 1 WATT, 56 OHM 1 R12 RESISTOR, 1 WATT, 56 OHM 1 R28 RESISTOR, 1 WATT, 470 OHM 1 R7 RESISTOR, 1 WATT, 0.56 OHM 1 R7 RESISTOR, 1 WATT, 0.56 OHM 1 R26 RESISTOR, 1 WATT, 0.56 OHM 1 R27 RESISTOR, 1 WATT, 0.56 OHM 1 R23 RESISTOR, 1 WATT, 0.82 OHM 1 R24 RESISTOR, 1/4 WATT, 33 OHM 1 R27 RESISTOR, 1/4 WATT, 33 OHM 1 R27 RESISTOR, 1/4 WATT, 68 OHM 1 R22 RESISTOR, 1/4 WATT, 330-470 OHM 1 R22 RESISTOR, 1/4 WATT, 330 OHM 1 R21 RESISTOR, 1/4 WATT, 220 OHM 1 R22 RESISTOR, 1/4 WATT, 330 OHM 1 R21 RESISTOR, 1/4 WATT, 330 OHM 1 R21 RESISTOR, 1/4 WATT, 68 OHM 1 R22 RESISTOR, 1/4 WATT, 68 OHM 1 R23 RESISTOR, 1/4 WATT, 68 OHM 1 R24 RESISTOR, 1/4 WATT, 68 OHM 1 R25 RESISTOR, 1/4 WATT, 68 OHM 1 R26 RESISTOR, 1/4 WATT, 680 OHM 1 R27 RESISTOR, 1/4 WATT, 680 OHM 1 R28 RESISTOR, 1/4 WATT, 1.2K OHM 1 R19 RESISTOR, 1/4 WATT, 1.2K OHM 1 R18 RESISTOR, 1/4 WATT, 1.2K OHM 1 R19 RESISTOR, 1/4 WATT, 1.2K OHM 1 R16 RESISTOR, 1/4 WATT, 1.2K OHM 1 R17 RESISTOR, 1/4 WATT, 1.2K OHM 1 R29 RESISTOR, 1/4 WATT, 220 K OHM 1 R29 RESISTOR, 1/4 WATT, 220 K OHM 1 R29 RESISTOR, 1/4 WATT, 220 K OHM 1	D1 D2 D3, D6 D4 D5, D7 D12, D13 D14 RF1	DIODE, V19G DIODE, V06C DIODE, 1S1588 DIODE, S15S3 DIODE, 5CH1M DIODE, F113B DIODE, F113B DIODE, S4VB40(BRIDGE TYPE)	1 2 1 2 2 1
R21 RESISTOR, 1/4 WATT, 270 OHM 1 R6 RESISTOR, 1/4 WATT, 330 OHM 1 R11 RESISTOR, 1/4 WATT, 68 OHM 1 R20 RESISTOR, 1/4 WATT, 470 OHM 1 R17 RESISTOR, 1/4 WATT, 680 OHM 1 R19 RESISTOR, 1/4 WATT, 800 OHM 1 R18 RESISTOR, 1/4 WATT, 1.2K OHM 1 R5 RESISTOR, 1/4 WATT, 10K OHM 1 R16 RESISTOR, 1/4 WATT, 220K OHM 1 R29 RESISTOR, 3 WATT, 27 OHM 1	Q1 Q2 Q3 Q4	TRANSISTOR, 2SC2504 TRANSISTOR, 2SD467(B) TRANSISTOR, 2SC460(B) TRANSISTOR, 2SA673(B)	1 1
R21 RESISTOR, 1/4 WATT, 270 OHM 1 R6 RESISTOR, 1/4 WATT, 330 OHM 1 R11 RESISTOR, 1/4 WATT, 68 OHM 1 R20 RESISTOR, 1/4 WATT, 470 OHM 1 R17 RESISTOR, 1/4 WATT, 680 OHM 1 R19 RESISTOR, 1/4 WATT, 800 OHM 1 R18 RESISTOR, 1/4 WATT, 1.2K OHM 1 R5 RESISTOR, 1/4 WATT, 10K OHM 1 R16 RESISTOR, 1/4 WATT, 220K OHM 1 R29 RESISTOR, 3 WATT, 27 OHM 1	IC1 PC1	INTEGRATED CIRCUIT, RM723DC or HA17723G-02 PHOTO COUPLER, PS2001	
R39 RESISTOR, 1/4 WATT, 4.7K OHM 1 R38 RESISTOR, 1/4 WATT, 5.6K OHM 1 R24 RESISTOR, 1/4 WATT, 330 OHM 1 R25 RESISTOR, 1/4 WATT, 150 OHM 1	R21 R6 R11 R20 R17 R19 R18 R5 R16 R29 R39 R38 R24	RESISTOR, 1/4 WATT, 270 OHM RESISTOR, 1/4 WATT, 330 OHM RESISTOR, 1/4 WATT, 68 OHM RESISTOR, 1/4 WATT, 470 OHM RESISTOR, 1/4 WATT, 680 OHM RESISTOR, 1/4 WATT, 800 OHM RESISTOR, 1/4 WATT, 1.2K OHM RESISTOR, 1/4 WATT, 10K OHM RESISTOR, 1/4 WATT, 20K OHM RESISTOR, 1/4 WATT, 27 OHM RESISTOR, 3 WATT, 27 OHM RESISTOR, 1/4 WATT, 4.7K OHM RESISTOR, 1/4 WATT, 5.6K OHM RESISTOR, 1/4 WATT, 5.6K OHM RESISTOR, 1/4 WATT, 330 OHM	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

PARTS LIST - SHINDENGEN POWER SUPPLY

SYMBOL:	DESCRIPTION:	<u>USAGE</u> :
C1, C2	CAPACITOR, ECK-DAL102E	2
C3-1,-2	CAPACITOR, 160VSN100	2
C9, C10	CAPACITOR, SM10VB-2200	2
C11, C23	CAPACITOR, SM10VB-2200	2
C12, C13, C15	CAPACITOR, SL25VB-10	3
C27	CAPACITOR, SL25VB-10	1
C18, C19, C20	CAPACITOR, SM35VB-1000	3
C26	CAPACITOR, SM35VB-1000	. 1
C21, C22, C25	CAPACITOR, SM16VB-1000	3
C5	CAPACITOR, DMY21H472K	1
C6	CAPACITOR, DMY21H104K	1
C14, C16	CAPACITOR, DMY21H222K	2
C4	CAPACITOR, CM20XC511K5	1
C8	CAPACITOR, MDD22G473K	1 .
C5-2	CAPACITOR, DMY21H222K	1
F1, F2	ENCLOSED TYPE FUSE, 3A	2

$\frac{SK-4}{\texttt{PARTS LIST}}$

NO.	PART NUMBER	DESCRIPTION:	USAGE:
1. 2. 3.	50010169 50010022 50010273	74LS154 I.C. 74LS86 I.C. 74LS244 I.C.	1 1 4
4. 5. 6.	50010005 50010221 50010019	74LS04 I.C. 74LS163 I.C. 74LS74 I.C.	4 1 2
7. 8. 9. 10.	50010007 50010004 50010141 50010197	74LS10 I.C. 74LS02 I.C. 74LS125 I.C. 74LS05	4 1 2 1 1 1
11. 12. 13. 14. 15. 16. 17. 18. 19.	50010002 50010193 50010261 50010315 50010105 50010204 50010012 50010035 50010279 50010254	74LS00 I.C. 74LS155 I.C. 74LS273 I.C. 74LS240 I.C. 74LS32 74LS393 I.C. 74LS30 I.C. 74LS161 I.C. LM3900 I.C. LM324	2 1 4 3 1 3 1 4 1
21. 22. 23. 24. 25. 26. 27. 28. 29.	50010314 50010317 50010172 50010001 50010147 50010043 50010266 50010171 50010198 50100014	2732 I.C. 4118 I.C. 6502 I.C. 555 I.C. 74121 I.C. 556 I.C. 14066 I.C. 2716 I.C. 76477 I.C. IN914	8 1 1 1 1 3 2 2
31. 32. 33. 34. 35. 36. 37. 38. 39.	50060189 50040186 50040174 50040001	1815 TRANSISTOR 11.289 MHZ CRYSTAL 3713 AUDIO AMP 1,000mfd, 25V., ELECTROLYTIC RADIAL CAPACITOR 100mfd, 25V., ELECTROLYTIC RADIAL CAPACITOR 47mfd, 25V., ELECTROLYTIC RADIAL CAPACITOR .033mfd, 50V., MYLAR CAPACITOR 0.1mfd, 25V., MYLAR CAPACITOR 0.1mfd, 25V., DISC CERAMIC CAPACITOR .01mfd, 16V., DISC CERAMIC CAPACITOR	1 1 1 3 1 1 1 47 4
41. 42. 43. 44. 45. 46. 47. 48. 49.	50040120 50060165 50060202 50060163 50060203 50060167 50040127	.001mfd, 15V., DISC CERAMIC CAPACITOR 220pf, 50V., DISC CERAMIC CAPACITOR .0022mfd, 25V., DISC CERAMIC CAPACITOR 10mfd, 25V., DIPPED TANTALUM CAPACITOR .22mfd, 25V., DIPPED TANTALUM CAPACITOR 1mfd, 25V., DIPPED TANTALUM CAPACITOR .22mfd, 35V., DIPPED TANTALUM CAPACITOR .1mfd, 35V., DIPPED TANTALUM CAPACITOR .1mfd, 35V., DIPPED TANTALUM CAPACITOR 4.7mfd, 25V., DIPPED TANTALUM CAPACITOR 2.2K, ¼W., 5% RESISTOR	6 2 1 2 2 3 2 1 1 9

SK-4 PARTS LIST

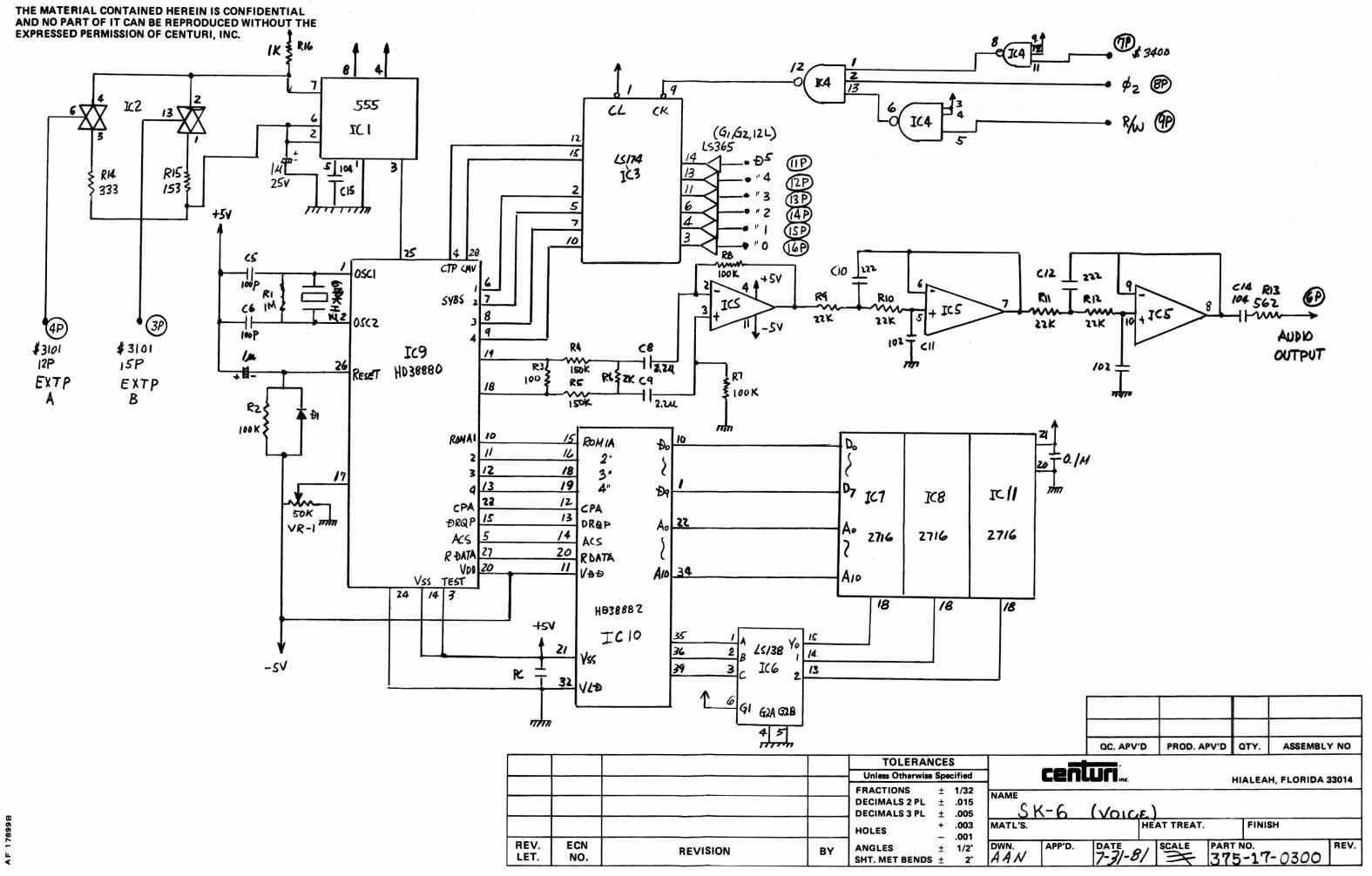
	PART NUMBER		USAGE:
51. 52. 53. 54. 55. 56. 57. 58.	50030151 50030150 50030007 50030011 50030185 50030162 50030010 50030051 50030315 50030256	22K OHM, ¼W., 5% RESISTOR 47K OHM, ¼W., 5% RESISTOR 100K OHM, ¼W., 5% RESISTOR 220 OHM, ¼W., 5% RESISTOR 1.8K OHM, ¼W., 5% RESISTOR 560 OHM, ¼W., 5% RESISTOR 470 OHM, ¼W., 5% RESISTOR 1K OHM, ¼W., 5% RESISTOR 1K OHM, ¼W., 5% RESISTOR 18K OHM, ¼W., 5% RESISTOR 18K OHM, ¼W., 5% RESISTOR 100 OHM, ¼W., 5% RESISTOR	6 5 2 3 1 1 16 5 1
61. 62. 63. 64. 65. 66. 67. 68.	50030086 50030104 50030092 50030159 50030147 50030063 50030155 50030146 50030006 50030197	33K OHM, ¼W., 5% RESISTOR 470K OHM, ¼W., 5% RESISTOR 1M OHM, ¼W., 5% RESISTOR 1.5M OHM, ¼W., 5% RESISTOR 6.8K OHM, ¼W., 5% RESISTOR 10K OHM, ¼W., 5% RESISTOR 150K OHM, ¼W., 5% RESISTOR 15K OHM, ¼W., 5% RESISTOR 4.7K OHM, ¼W., 5% RESISTOR 5.1K OHM, ¼W., 5% RESISTOR	9 6 4 3 1 12 3 1 2 7
71. 72. 73. 74. 75. 76. 77. 78.	50030316 50150317 50150256 50360006 10010003 10130001 50150061 50150060 375-08-0500	1K PCB TRIMMER POTENTIOMETER 20-PIN RIGHT ANGLE PCB HEADER 50-PIN RIGHT ANGLE PCB HEADER 9-PIN RESISTOR PACK(S.I.P.), 1K OHM RD/PH/MS #4-40 x 3/8" HEX NUT #4-40 24-PIN SOLDER TRAIL SOCKET, LOW PROF. 40-PIN SOLDER TRAIL SOCKET, LOW PROF. HEAT SINK	1 1 2 2 1 1 11 11

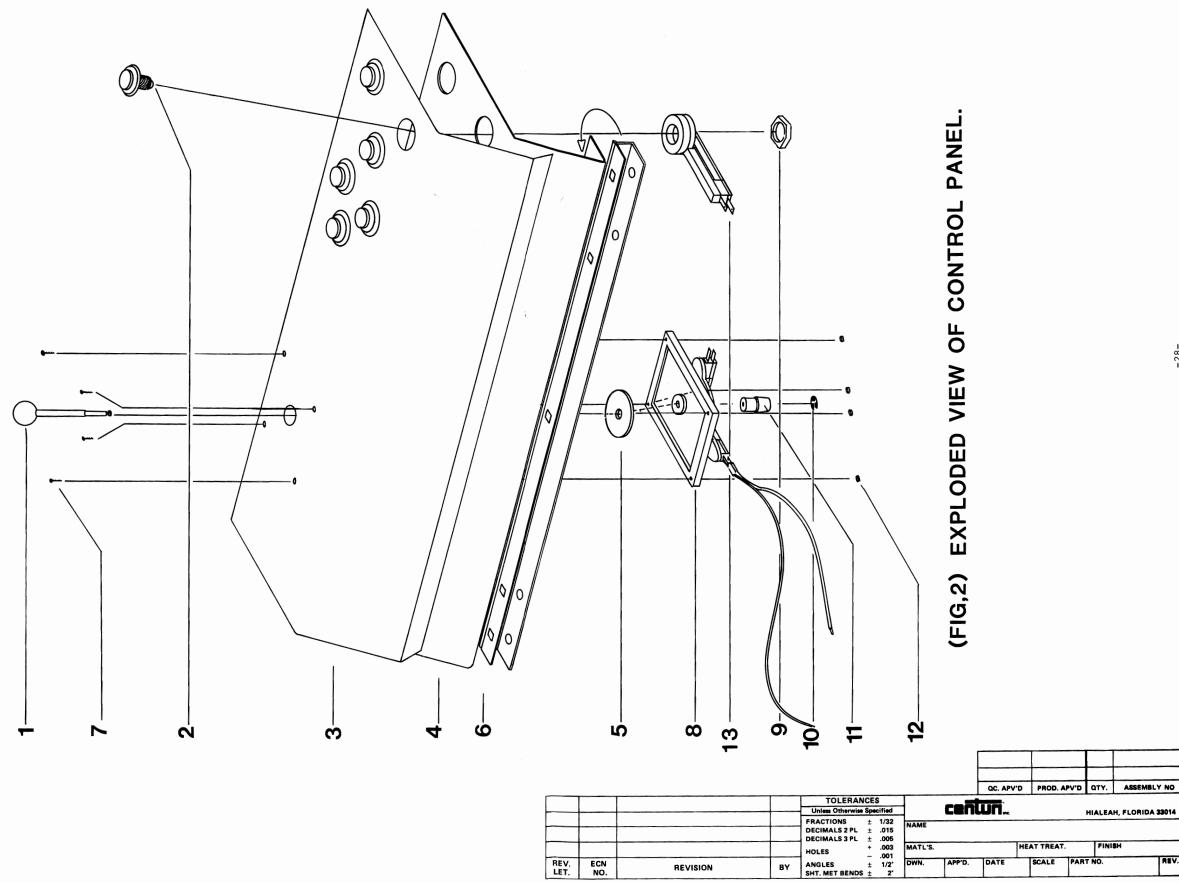
SK-5 PARTS LIST

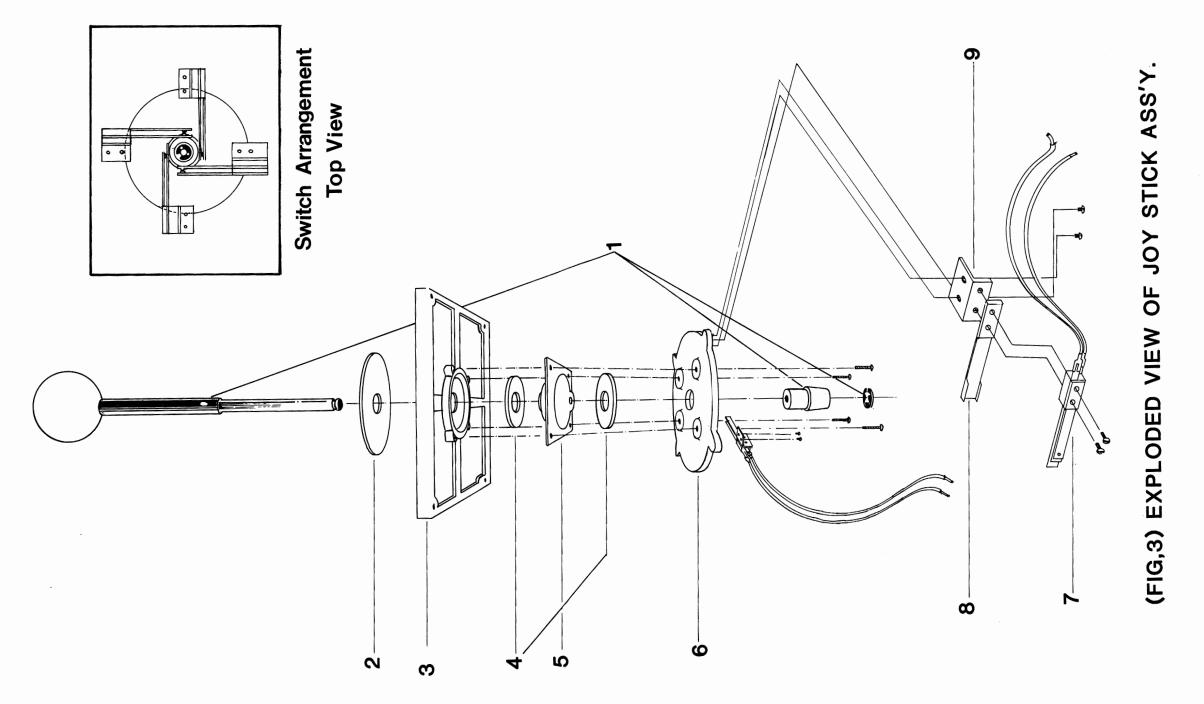
<u>NO</u> .	PART NUMBER	DESCRIPTION:	<u>USAGE</u> :
1. 2. 3. 4. 5. 6. 7. 8. 9.	50010248	74LS74 I.C. 74LS283 I.C. 74LS86 I.C. 74LS04 I.C. 74LS288 I.C. 74LS157 I.C. 74LS154 I.C. 74LS174 I.C. 74LS138 I.C. 74LS10 I.C.	1 5 4 2 2 11 1 5 2 4
11. 12. 13. 14. 15. 16. 17. 18. 19.	50010105 50010252 50010096 50010029 50010026 50010002 50010004 50010275	74LS244 I.C. 74LS32 I.C. 74LS374 I.C. 74LS08 I.C. 74LS166 I.C. 74LS107 I.C. 74LS00 I.C. 74LS02 I.C. 74LS136 I.C.	10 1 6 2 4 1 1 1 2
21. 22. 23. 24. 25. 26. 27. 28. 29.	50010315 50010316 50010171 50010317 50010310 50040001	74LS125 I.C. 74LS240 I.C. 46505 I.C. 2716 I.C. 2128 I.C. 2114 I.C. 0.1 MFD, 25V., DISC CERAMIC CAPACITOR 470 OHM, \(\frac{1}{2} \text{W.} \), 5% RESISTOR 220 OHM, \(\frac{1}{2} \text{W.} \), 5% RESISTOR 1K OHM, \(\frac{1}{2} \text{W.} \), 5% RESISTOR	1 1 2 2 6 27 9 6
31. 32. 33. 34. 35. 36. 37.	50030256 50360006 50130034 50150256 50150060 50150061 50150112 50150111	100 OHM, ¼W., 5% RESISTOR 9-PIN RESISTOR PACK (S.I.P.), 1K OHM 8-POSITION DIP SWITCH 50-PIN RIGHT ANGLE PCB HEADER 40-PIN SOLDER TRAIL SOCKET, LOW PROF. 24-PIN SOLDER TRAIL SOCKET, LOW PROF. 18-PIN SOLDER TRAIL SOCKET, LOW PROF. 16-PIN SOLDER TRAIL SOCKET, LOW PROF.	1 1 2 1 4 6

SK-6 PARTS LIST

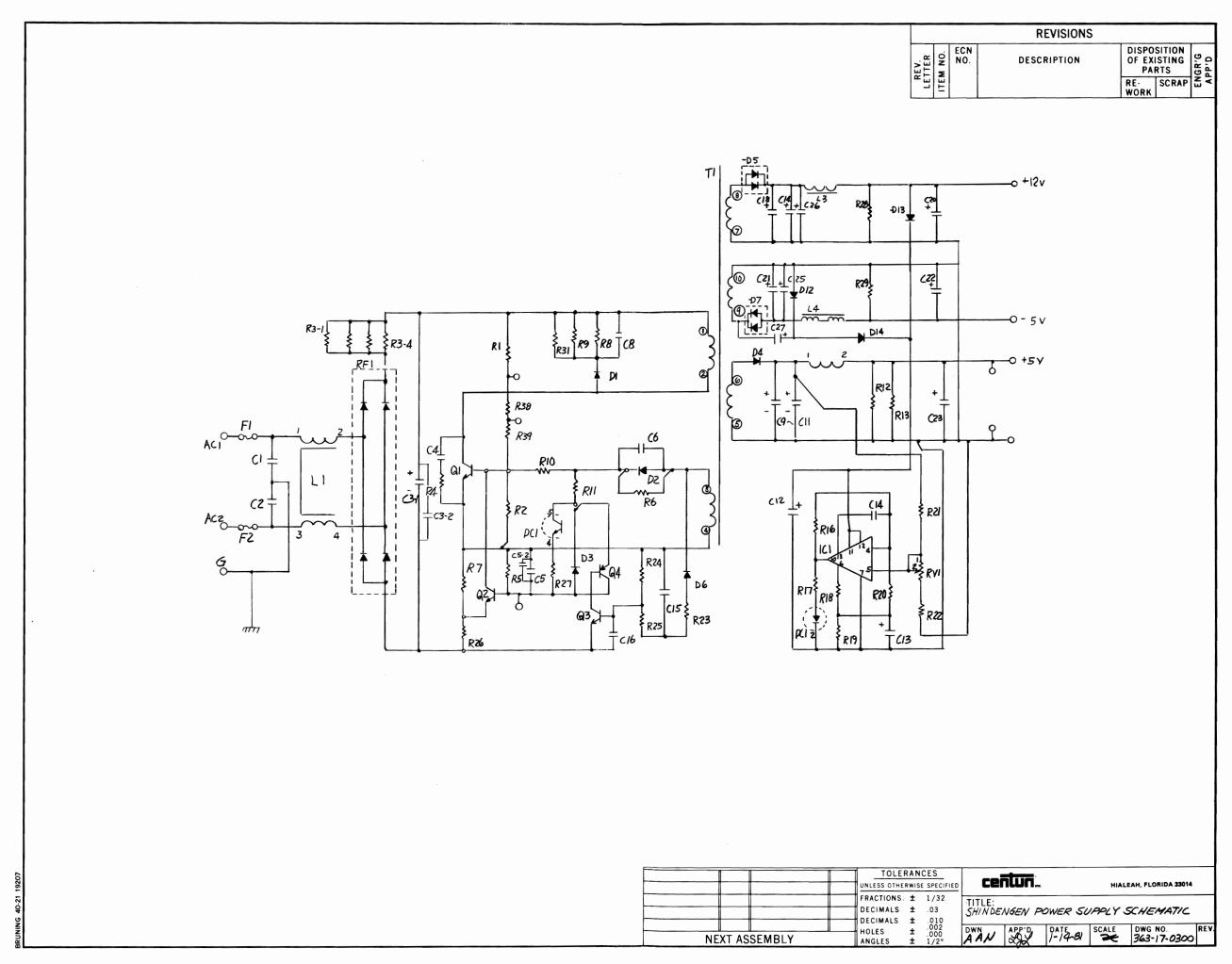
<u>NO</u> .	PART NUMBER	DESCRIPTION:	<u>USAGE</u> :
1.	50010248	74LS138 I.C.	1
2.	50010007	74LS10 I.C.	1
3.	50010030	74LS174 I.C.	1
4.	50010283	74LS365 I.C.	1
5.	50010171	2716 I.C.	3
6.	50010318	38882 I.C.	1
7.	50010319	38880 I.C.	1
8.	50010254	LM324 I.C.	1
9.	50010266	14066 I.C.	1
10.	50010320	17555 I.C.	1
11.	50040001	0.1mfd, 25V., DISC CERAMIC CAPACITOR	15
12.	50060007	470mfd, 16V., ELECTROLYTIC RADIAL CAPACITOR	2
13.	50040053	100pf, 25V., DISC CERAMIC CAPACITOR	2
14.	50040011	.001mfd, 15V., DISC CERAMIC CAPACITOR	2
15.	50040120	.0022mfd, 25V., DISC CERAMIC CAPACITOR	2
16.	50060163	1mfd, 25V., DIPPED TANTALUM CAPACITOR	2
17.	50060193	2.2mfd, 25V., DIPPED TANTALUM CAPACITOR	2
18.	50100014	IN914	1
19.	50030146	15K OHM, ¼W., 5% RESISTOR	1
20.	50030086	33K OHM, ¼W., 5% RESISTOR	2
22.	50030155	150K OHM, ¼W., 5% RESISTOR	2
23.	50030001	2.2K OHM, ¼W., 5% RESISTOR	1
24.	50030007	100K OHM, ¼W., 5% RESISTOR	3
25.	50030151	22K OHM, ¼W., 5% RESISTOR	4
26.	50030149	5.6K OHM, ¼W., 5% RESISTOR	1
27.	50030256	100 OHM, ¼W., 5% RESISTOR	1
28.	50030092	1M OHM, ¼W., 5% RESISTOR	1
29.	50150317	20-PIN RIGHT ANGLE PCB HEADER	1
30.	50150315	MOUNTED PCB BEAD PIN	1
31.	50150061	24-PIN SOLDER TRAIL SOCKET, LOW PROF.	3
32.	50150062	28-PIN SOLDER TRAIL SOCKET, LOW PROF.	1
33.	50150316	42-PIN SOLDER TRAIL SOCKET, LOW PROF.	1
34.	50070017	640KH _Z CRYSTAL	1







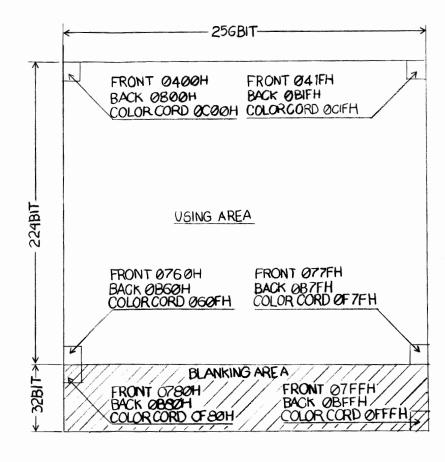
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							QC. APV'D	PROD. AP	/'D 0	TY.	ASSEMBLY	Y NO
				TOLERANCES Unless Otherwise Specified	AG.	cent	Un				, FLORIDA 3	2014
				FRACTIONS ± 1/32	NAME		THE SINC.		- niz	ALEAN	, FLORIDA e	
				DECIMALS 2 PL ± .015 DECIMALS 3 PL ± .005	TANK.							
				+ .003	MATL'S.		н	EAT TREAT.		FINIS		
REV. LET.	ECN NO.	REVISION	BY	001 ANGLES ± 1/2* SHT. MET BENDS ± 2*	DWN.	APP'D.	DATE	SCALE	PART N	iO.		REV.



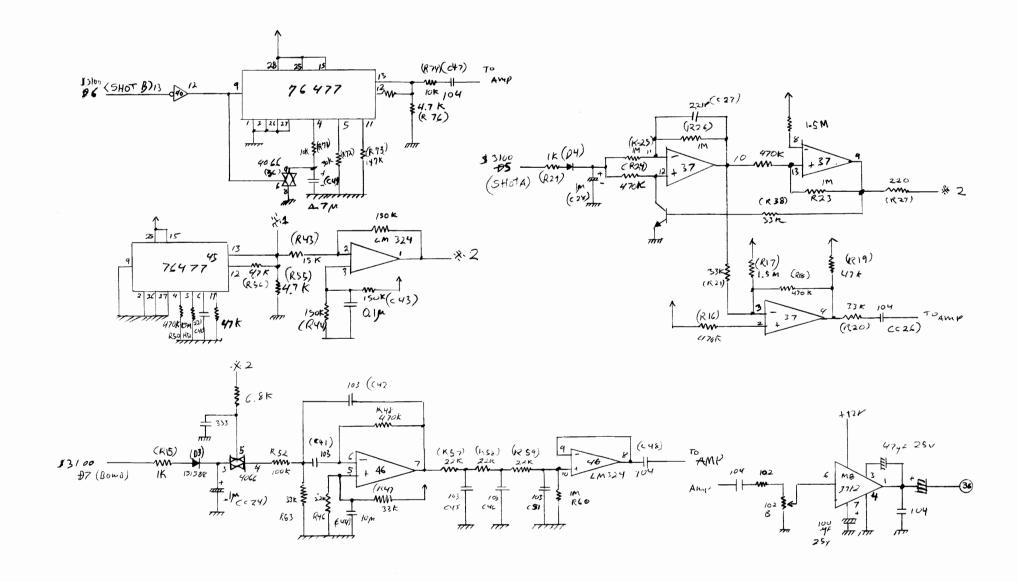
VANGUARD CIRCUIT MEMORY MAP

	The state of the s	
ADDRESS		IC
0000H~		
03FFH	WORKING RAM	4118 X 1
0400H~	FRANK WAR	0114 × 0
07FFH 0806H∼	FRONT V-RAM	2114 X 2
OBFFH	BACK V-RAM	2114 × 2
0000H~		
ØFFFH	COLOR V-RAM	2114 × 2
1000H~		
	FRONT	
	CHARACTOR	
		2128 X 2
	RAM	
IFFFH		
2000H~		
2FFFH	BLANK	
3000H~		
3001H	CRTC	6505 X I
3100H~	16 202	
34 FFH 3500H~	1/0 PORT	
3F F F H	BLANK	
4000H~	DLAININ	
100011~		
	DOM	2732 x8
	ROM	2132 40
BFFFH		
F000H~		
FFF9H	BLANK	
FFFAH~		
FFFFH	BECTLE	6502 X I

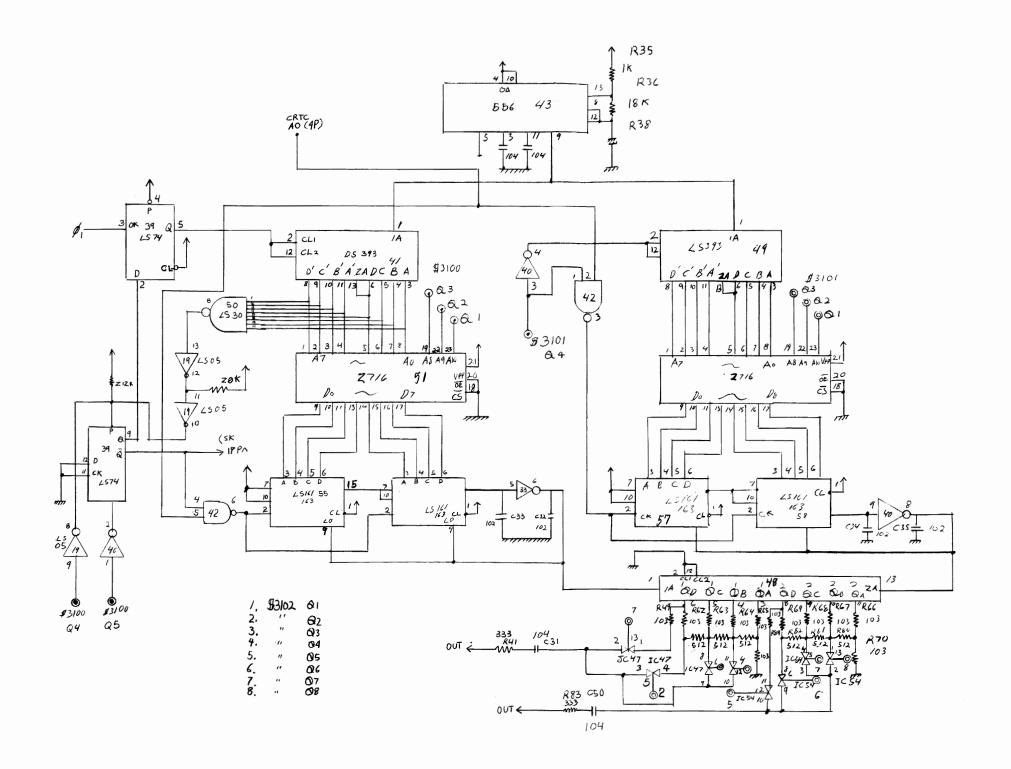
MEMORY ADDRESS ON DISPLAY



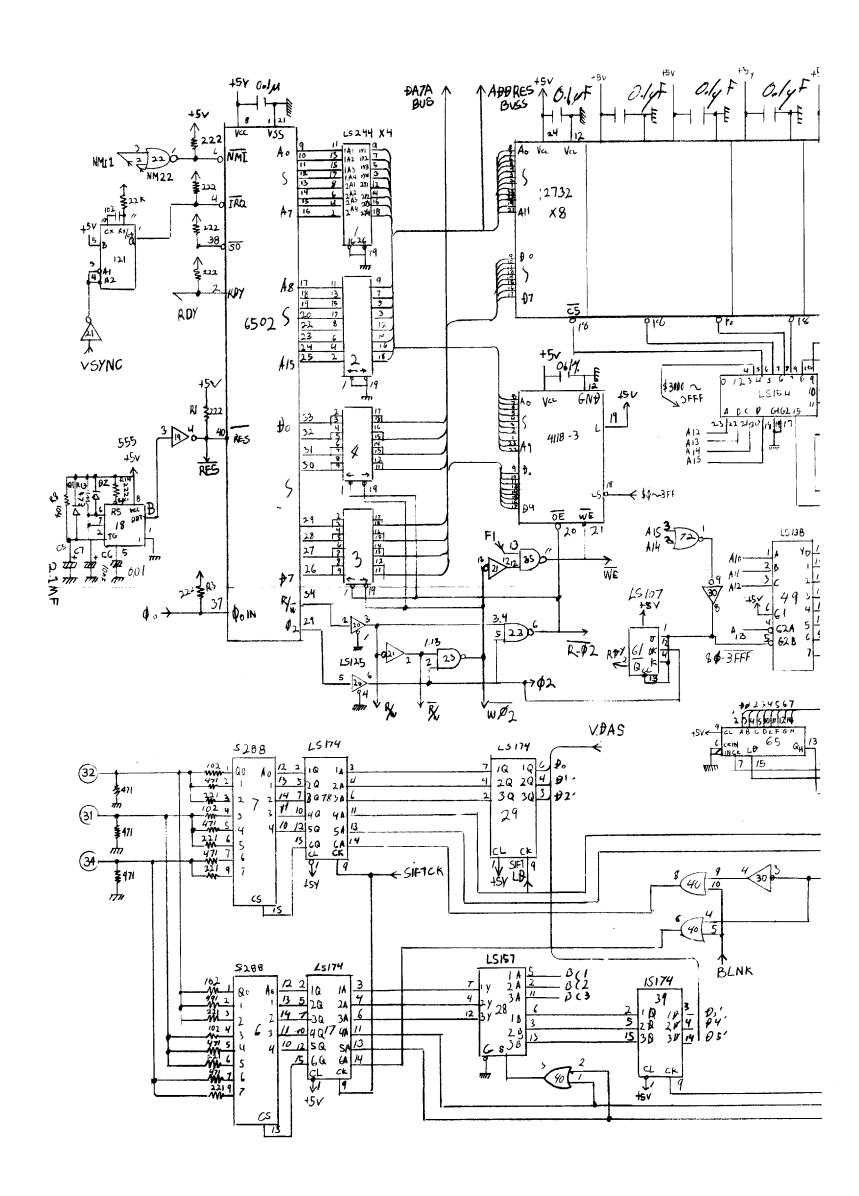
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						QC. APV'	PROD. APV'E	ату.	ASSEMBLY NO
				TOLERANCES Unless Otherwise Specified	ceñ	turi			.H, FLORIDA 33014
				FRACTIONS ± 1/32 DECIMALS 2 PL ± .015 DECIMALS 3 PL ± .005	NAME VANGUARI		11+ MEM		
				HOLES + .003 001	MATL'S.		HEAT TREAT.	FINI	ISH
REV. LET.	ECN NO.	REVISION	BY	ANGLES ± 1/2" SHT. MET BENDS ± 2"	ALDERTO APP'D.	8-4-8	1 SCALE PA	75-1	7-0400 REV.

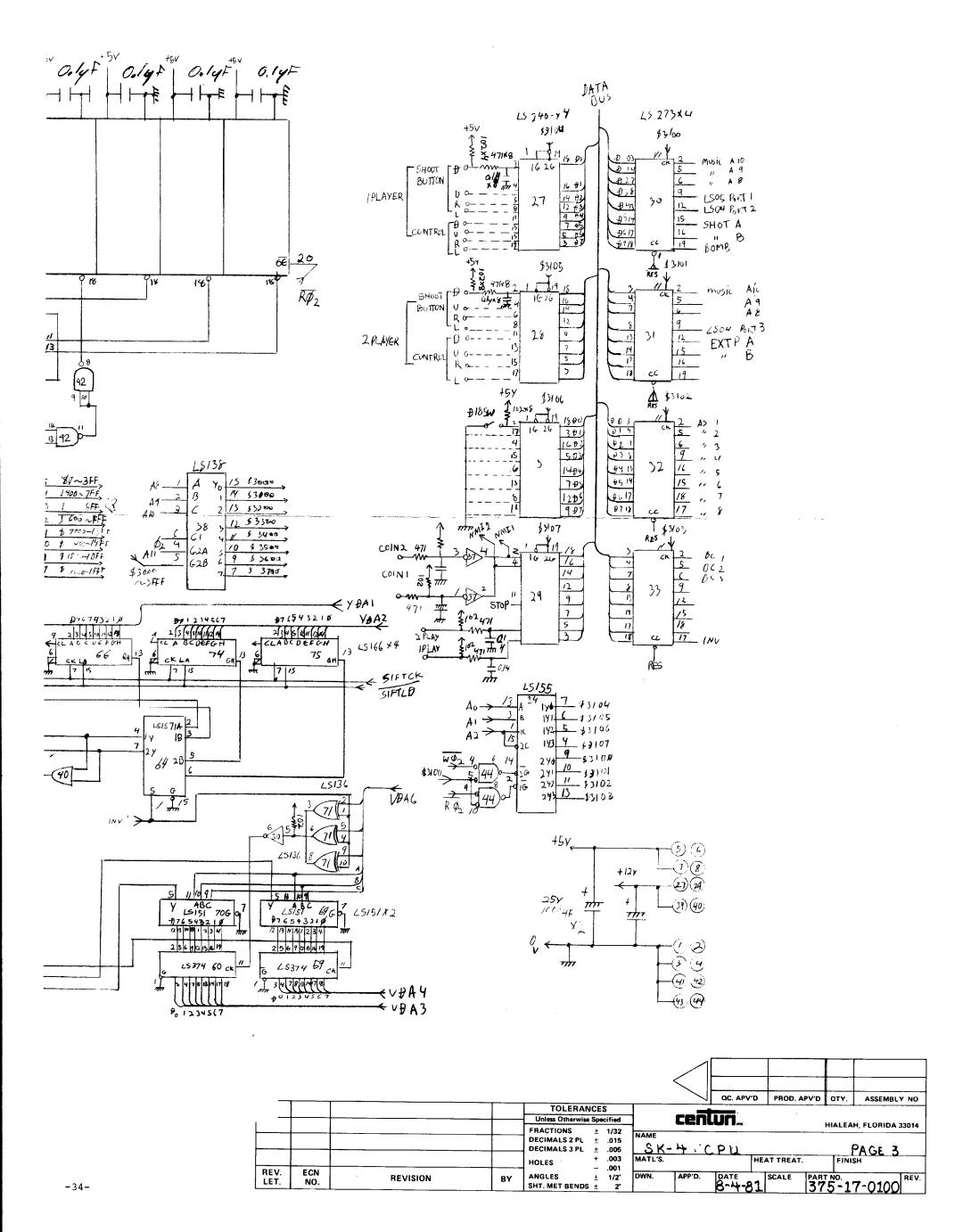


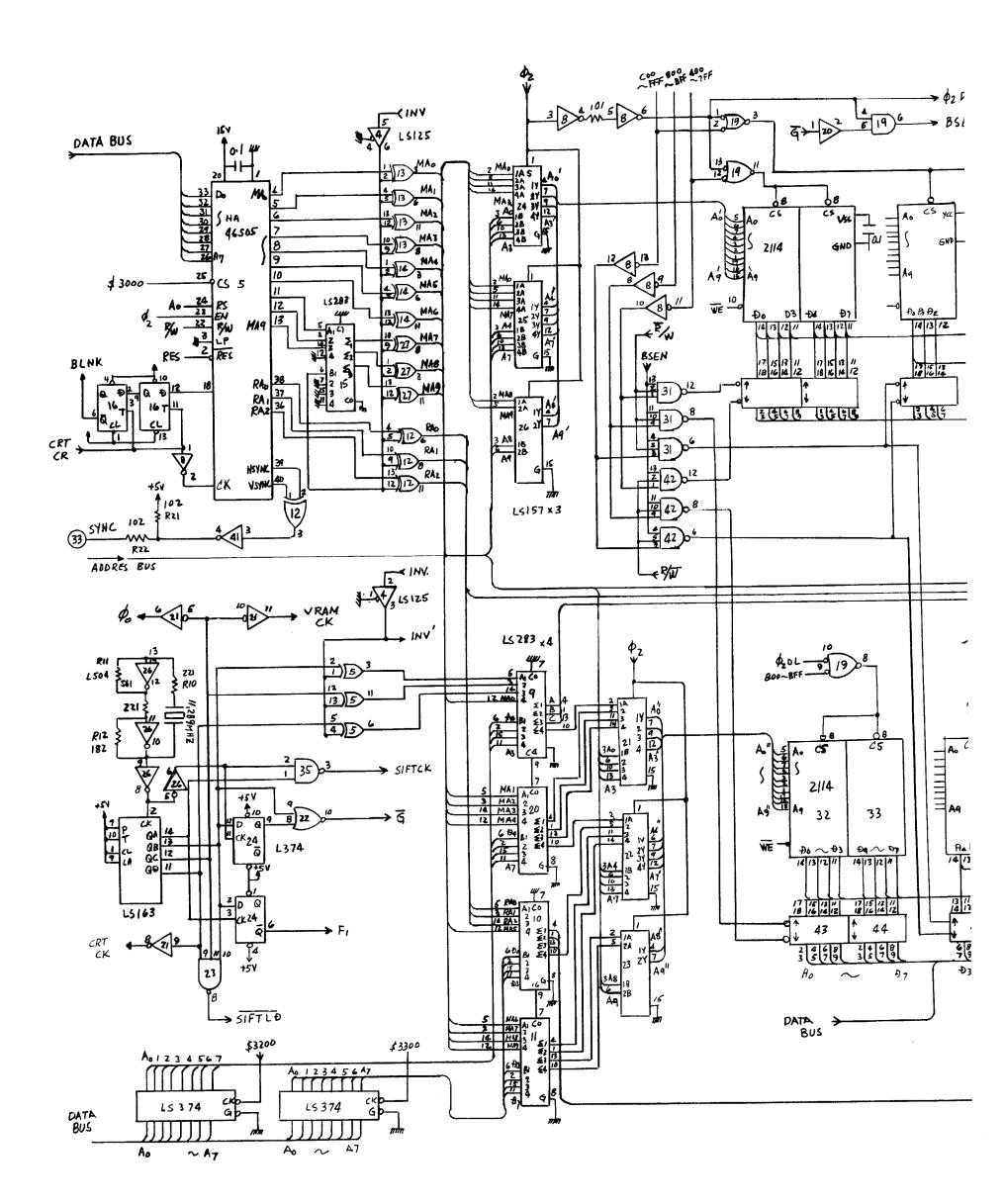
						QC. APV'D	PROD. APV'D	QTY. ASSEM	BLY NO
				TOLERANCES Unless Otherwise Specified	cen				
				FRACTIONS ± 1/32 DECIMALS 2 PL ± .015 DECIMALS 3 PL ± .006	NAME	RD Sound	Page	HIALEAH, FLORID	A 33014
				HOLES + .003 001	MATL'S.		AT TREAT.	FINISH	
REV. LET.	ECN NO:	REVISION	BY	ANGLES ± 1/2" SHT, MET BENDS ± 2"	DWN. APP'D.	8-4-81	SCALE PAR	T NO. 5-17-0100	REV.

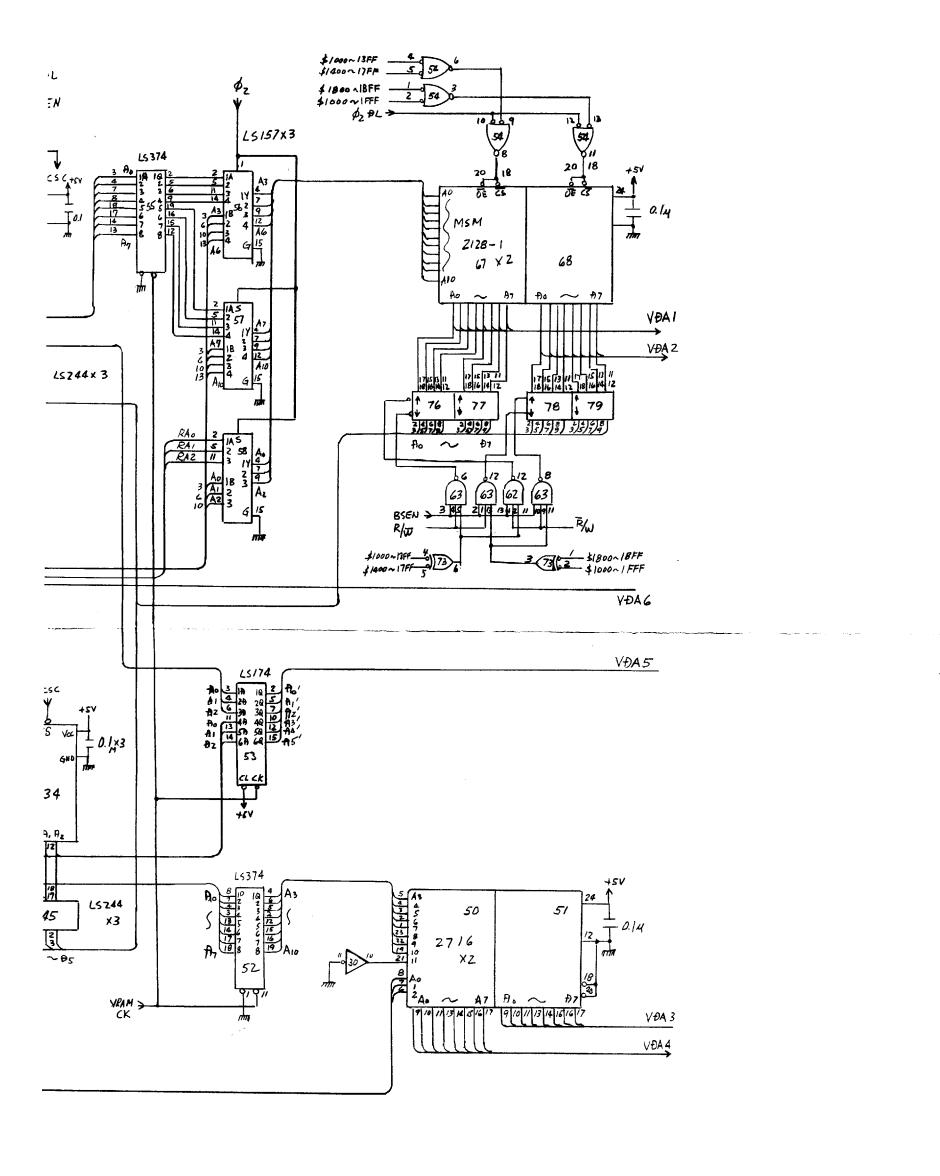


							QC. APV'D	PROD. APV'D	QTY.	ASSEMBLY NO
				TOLERANO Unless Otherwise S		ceñ	<u> </u>		MIA! EAI	H, FLORIDA 330 14
				1	± 1/32 ± .015	NAME			HINEEN	1,7201107 65014
				DECIMALS 3 PL	± .005	SK-4	lue	AT TREAT.	FINIS	AGE 2
				HOLES	+ .003 001	MATL'S.		AT INEAL.	FIRE	
REV. LET.	ECN NO.	REVISION	ВУ	ANGLES SHT. MET BENDS	t 1/2°	DWN. APP'D.	8-4-81	SCALE PART	5-17	7-0100 REV.

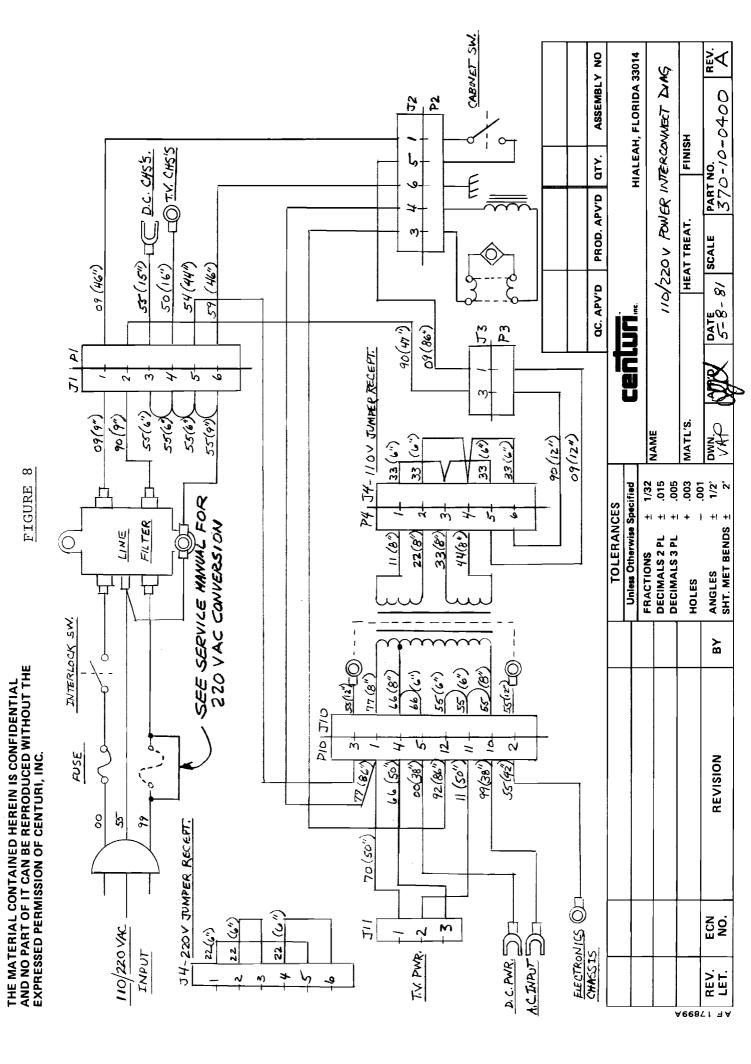








							QC. APV'D	PROD. APV'D	оту.	ASSEMBLY NO
				TOLERANCES Unless Otherwise Specified		cent		<u> </u>	HIALFA	H, FLORIDA 3301
				FRACTIONS ± 1/32 DECIMALS 2 PL ± .015 DECIMALS 3 PL ± .005	NAME	5 K -	5			.,. 22
				HOLES + .003	MATL'S.		HE	AT TREAT.	FINIS	SH
REV, LET.	ECN NO.	REVISION	BY	001 ANGLES ± 1/2° SHT. MET BENDS ± 2°	DWN. AAN	APP'D.	BATE 8-4-81	SCALE PAR	r No. 5-17	-0200 RE



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

GRAY WRED STP WIRE ZZAWA

VIOLET WIRE, 22 AWG

50177706

,72

GREEN WORANGE STPW. 22AWG

GREENWRED STP, 22 AWG.

WHITE WALK STP W 22 AWG

WHITE WARY STPW 22 AWG

GREEN W/YELLOW STPW 22AWG

ORANGE WINDLET STP WIZZAM

12 PIN MOLEX PLUG WEARS MOLEX MALE PINS, REEL

DESCRIPTION

MATERIALS

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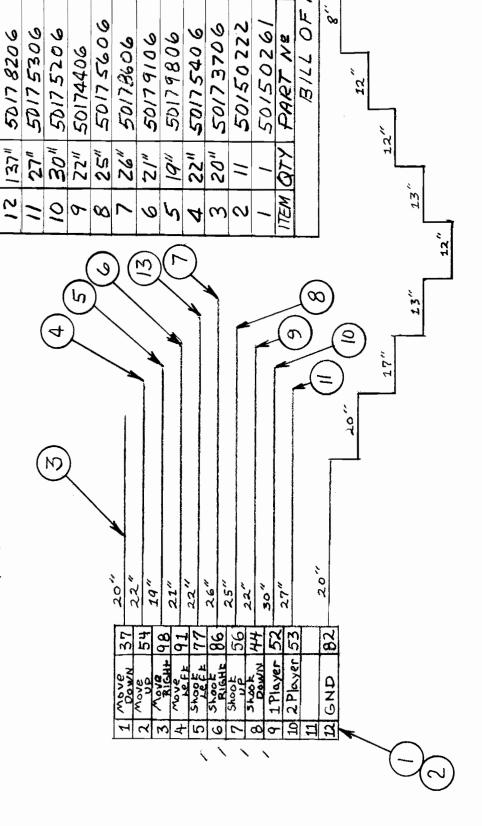
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GRAYW/BLUE STP WINE 22ML

GREEN WRIVE STPW 22AWG

YELLOW WIRE 22 AWG.



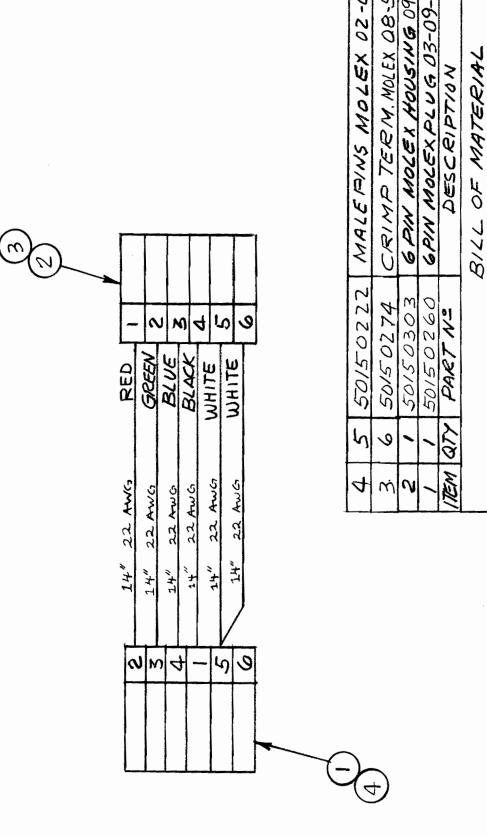
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7.
HARNESS IS
PANEL
CONTROL PANEL HARNESS IS
NOTE;

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. APV'D						VANG	<u>+</u>	PAR 37
PROD	<u> </u>					CONFrol Manel Harness - Vanguard	HEAT TREAT.	TOTAL PATE SCALE PA
QC, APV'D			Ë		_	9 N L O L	포	2-81
OC.					-	7		7-7
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	ES	pecified		1/32	± .015	+ .005	.003	.001 1/2, ±
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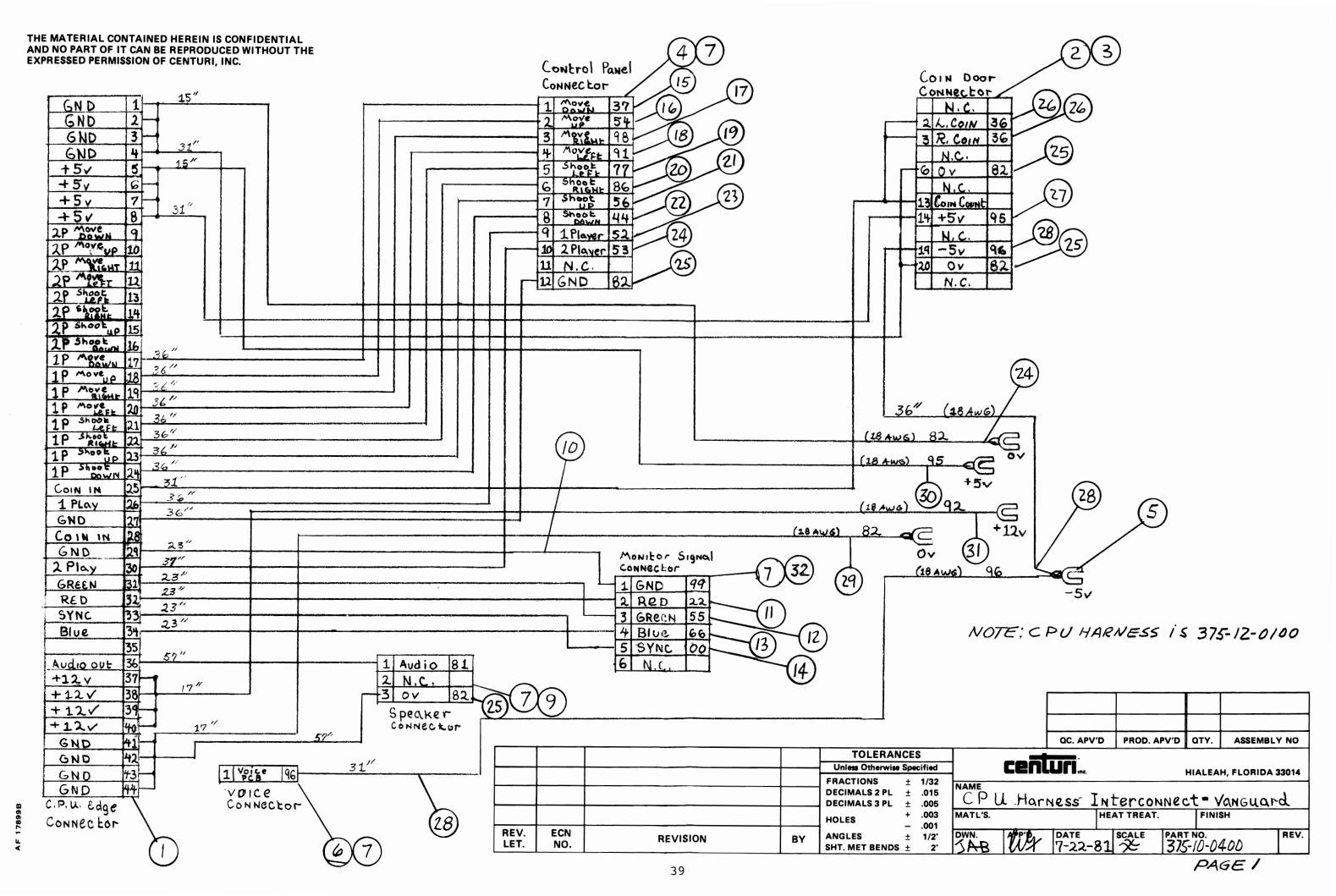


	4	7	50/50	222	NAL	シャノロノゴ	70W S	ZY W	5 5015-0222 MALE 17WS MOLEX 02-09-2116	
	W	9	50/502	74	CRIM	10 TE	RW.W	SEX C	50150274 CRIMP TERM. MOLEX 08-50-0106	
	N	`	50150303	303	6 PIN	MOL	EX HOU	15/1/20	6 PIN MOLEX HOUSING 09-50-7061	
	`	/	50150260	560	NIdo	MOLE	XPLU	S 03-	6PM MOLEX PLUG 03-09-2061	
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245 West 74th Place Hialeah, Florida 33014 Telephone 305-558-5200 Telex: 803694, ANSB Centuri Cable: CENTURI