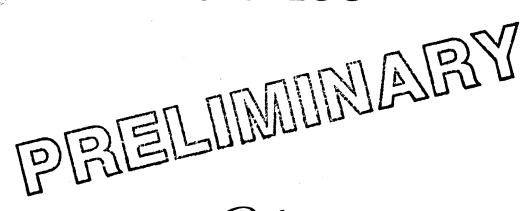
# PRELIMINARY OWNER/OPERATOR'S MANUAL

### **GAPLUS**



Bally

MIDWAY MFG. CO.

10601 W Belmont Avenue Franklin Park, Illinois 60131 U.S.A.



Phone: (312) 451-9200 Cable Address: MIDCO Telex No.: 72-1596

## PRELIMINARY INSTRUCTIONS FOR CAPLUS

#### INSTALLATION

- 1. Unlock and open the coin box door.
- 2. Remove four (4) "CABINET LEVELING LEGS" from inside the coin box.
- 3. Tip the cabinet to the side and remove the shipping cleats from its bottom.
  - ° Locate the threaded holes one in each corner and install the "CABINET LEVELING LEGS" in them.
  - ° Level the cabinet.
  - ° When finished, the cabinet should be stable in the upright position.
- 4. Close and lock the rear access door and plug the game into a **standard** A.C. wall outlet **ONLY.**

Game MUST be properly grounded.

#### LINE VOLTAGE SAFETY INTERLOCK SWITCHES

Line voltage SAFETY INTERLOCK SWITCHES have been provided for your protection. The locations of these SAFETY INTERLOCK SWITCHES are:

1. UPRIGHT MODEL:

Inside the rear of the cabinet at the side of the rear access door.

When the cabinet access door(s) are secured in place, the SAFETY INTERLOCK SWITCH plunger(s) are in a fully depressed condition. The game circuit can function normally.

When any cabinet access door(s) are opened, the SAFETY INTERLOCK SWITCH plunger(s) are in a partially extended condition. This isolates the game circuit from the line voltage.

To restore power to the game circuit with the access door(s) open, gently pull the SAFETY INTERLOCK SWITCH plunger(s) out to the fully extended condition. THIS IS TO BE USED FOR SERVICING THE GAME ONLY!

#### SELF-TEST

A slide switch is provided to make the game run a "Self-Test" on itself. The SELF-TEST SWITCH is located on a mounting bracket just inside the coin door opening.

When in the Self-Test mode, the monitor screen will display the results of certain test functions it has run on itself.

#### TO SERVICE THE CONTROL PANEL

#### 1. UPRIGHT MODEL:

\* The control panel is held in place by three latches, one on the left side, one on the right side, and one in the center of the front of the cabinet.

They are spring loaded to provide constant positive pressure on their latch plates.

They can be reached through the coin door AFTER turning power to the game off.

To release the latches, lift up and toward the center of the control panel.

Once they are released, unhook them from their latch plates.

" To remove the control panel:

Cradling the control panel between yourself and the cabinet, disconnect it from its cabling and any miscellaneous hardware.

The control panel is now free and can be removed.

" To reinstall the control panel, reverse this procedure.

#### REMOVAL OF THE MAIN-DISPLAY-GLASS AND/OR THE T.V. BEZEL ASSEMBLY

#### 1. UPRIGHT MODEL:

NOTE: In order to do this, the control panel MUST be removed first. See the "UPRIGHT MODEL" procedure.

- " Turn the power to the game off and remove the control panel. This frees the main-display-glass so it can be lifted up.
- " By putting your finger in the hole in the middle of the main-display-glass support, you can lift it up and out.
- " Loosen the screws which secure the T.V. bezel-glass-clamps in place.

Move the clamps to the side and the bezel glass may be removed.

Remove the bezel securing screws and the bezel with four bezel-glass-clamps may be removed.

'To reinstall the T.V. bezel assembly and the main-display-glass, reverse this procedure.

#### VOLUME CONTROL POT

The volume control pot is located on the games Logic P.C. Board in the back of the game cabinet. For adjustment, it may be reached through the games rear access door.

To make the sounds louder, turn the pot clockwise as you face it.

To make the sounds less loud, turn the pot counterclockwise as you face it.

#### CAUTION

- Be sure to check the PC Board for any foreign particles i.e. dust, etc.. Foreign particles on the PC Board are one of the main causes of the PC Board malfunctions.
- When in doubt as to the cause of any particular problem, ALWAYS take the PC Board to your distributor for repair. DO NOT attempt to repair the PC Board yourself by using a volt-ohm meter or other testing equipment.
- When transporting the PC Board, be sure to pack the board carefully with air caps, sponge or other packing materials.

#### PC BOARD

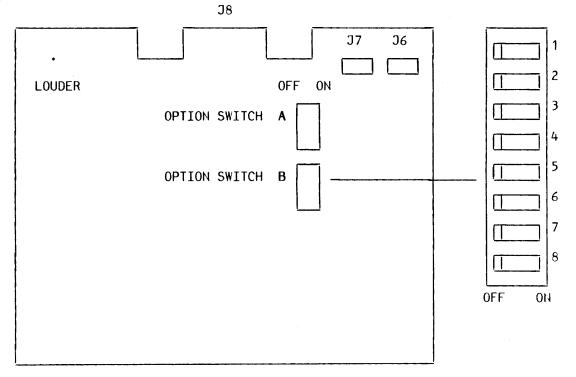
° Option Switches:

The game fee, bonus points, etc. are operator-adjustable. See the Option Switch Settings Table.

To perform the Self-Test, use the test switch located on the bracket just inside your games coin door.

° Volume:

Adjust the game volume as desired.  ${\tt DO\ NOT\ place}$  any unnecessary pressure on the volume control knob.



#### SELF-TEST

The Self-Test mode is a special mode for checking game switches and computer functions. It is the easiest and best way to check for proper operation of the entire game.

You may begin a Self-Test at any time after the power to the game is on by sliding the Self-Test switch to the "ON" position. Now that the game is in the Self-Test mode, it will act as follows:

° The Self Test will take about five (5) seconds to perform. The following check list will appear on the screen.

- A. RAM Test: If "OK" appears, RAM is normal.
- B. ROM Test: If "OK" appears, ROM is normal.
- C. I/O Test: If "OK" appears, I/O is normal.
- D. Game Fee Indicator: If 1 coin/1 game appears, the game fee is normal.
- E. Number of Fighters: If "3" appears, the number of Fighters is normal.
- F. Rank: If "0" appears, rank is normal.
- G. Table Specification: If "TABLE" appears for the Cocktail Table model and for the Upright Model, "UPRIGHT" appears, model specification is normal.
- H. Sound Test: A sound should appear when the control lever, firing button and the start button is pushed.
- I. Bonus Points: This game has been set for the first 50,000 points, then 150,000 points and for every 150,000 points thereafter.
- \* By using the OPTION SWITCH; "D", "E", and "I" are operator-adjustable.

When finished with the Self-Test mode, slide the Self-Test switch back to the "OFF" position and normal game functions will now return to the monitor screen.

#### CROSS HATCH PATTERN

Turn "ON" the Self-Test switch, push the Service button, and a cross hatch pattern will appear. Push the button one more time and the Self-Test mode will appear. Use this pattern when making adjustments to the monitor.

#### ADJUSTING GAME FEE, BONUS POINTS, ETC.

This is accomplished by using the various switches located on the games Logic P.C. Board. See the OPTION SWITCH SETTINGS tables and switch location information in this instruction sheet.

Turn the power switch "OFF" and then proceed to set the Option Switches.

After setting the option switches, again perform the Self-Test.

The settings of these switches are only read by the game on "POWER-UP".

#### GAPLUS

SW#1 5	5 <b>W#</b> 2	SW#3	SW#4	SW#5	<u>SW#6</u>	<u>SW#7</u>	SW#
0FF	0FF				NOT		
1	ОИ				USED		
ON	ОИ				OFF		
SW#1 S	5W#2	SW#3	SW#4	SW#5	SW#6	SW#7	SW
		0FF	0FF		0FF		
İ		0FF	ОИ				
		ОИ					
		ОИ	ОИ		OFF		
SW#1 5	5 <b>W#</b> 2	SW#3	SW#4	SW#5	SW#6	SW#7	SW
				0FF	0FF		
				ОИ	0FF		
SW#1 5	5 <b>W#</b> 2	SW#3	SW#4	SW#5	SW#6	SW#7	SW
					0FF	0FF	OF
					0FF	0FF	10
					OFF OFF	0N 0N	70 10
	OFF OFF ON ON SW#1 S	OFF OFF ON ON OFF ON ON SW#1 SW#2	OFF OFF ON	OFF OFF ON ON	OFF OFF OFF ON ON OFF ON ON  SW#1 SW#2 SW#3 SW#4 SW#5  OFF OFF OFF ON ON OFF ON ON ON OFF ON ON ON OFF ON ON OFF ON ON OFF ON	OFF OFF ON USED OFF OFF OFF OFF OFF OFF ON OFF OFF OFF	OFF ON ON OFF ON ON OFF         USED OFF OFF OFF OFF OFF ON OFF           SW#1 SW#2 SW#3 SW#4 SW#5 SW#6 SW#7           OFF OFF ON OFF ON OFF ON ON ON ON OFF           SW#1 SW#2 SW#3 SW#4 SW#5 SW#6 SW#7           SW#1 SW#2 SW#3 SW#4 SW#5 SW#6 SW#7           OFF

#### GAPLUS SWITCH SETTINGS - DIP SWITCH OPTION SELF-TEST MODE SW#1 SW#2 SW#3 SW#4 SW#5 SW#6 SW#7 SW#8 **OFF** NORMAL NO TEST SW#1 SW#2 SW#3 SW#4 SW#5 SW#6 SW#7 SW#8 "RANK" = DIFFICULTY LEVEL OF PLAY EASIEST LEVEL OF PLAY 1 0FF **OFF** OΝ \* 0 STANDARD LEVEL OF PLAY 0FF 0FF 0FF PROGRESSIVELY \_ 0FF OΝ 0FF 2 0FF NO MORE OΝ 3 0FF **OFF DIFFICULT** OΝ LEVELS OF 5 0N 0FF OΝ **OFF PLAY** 0N 0N 6 0N 0N 0N ROUND ADVANCE SW#1 SW#2 SW#3 SW#4 SW#5 SW#6 SW#7 SW#8 0FF NORMAL 0N **ADVANCE** SW#1 SW#2 SW#3 SW#4 SW#5 SW#6 SW#7 SW#8 BONUS SHIPS AWARDED AT: 0FF 0FF **OFF** 1st @ 100,000; 2nd @ 300,000 & every 600,000 1st @ 150,000; 2nd @ 400,000 0FF 0FF 011 0FF ON 0FF 1st @ 150,000; 2nd @ 400,000 & every 900,000 **OFF** ON OΝ 1st @ 100,000; 2nd @ 300,000 & every 300,000 0N 0FF 0FF 1st @ 50.000; 2nd @ 200,000 & every 300,000 110 0FF ИO 1st @ 50,000; 2nd @ 150,000 & every 600,000 1st @ 50,000; 2nd @ 150,000 & every 300,000 0N 110 **OFF** 1st @ 30,000; 2nd @ 150,000 & every 600,000 0N *N*0 \*\* BY TURNING "ON" THE OPTION SWITCH WHILE "PARSEC" IS BEING INDICATED ON THE SCREEN, YOU CAN ADVANCE THROUGH THE "ROUNDS". PUSH THE ONE PLAYER CONTROL LEVER FORWARD (PLAYER NUMBER ONE UP SWITCH IS "ON") TO INDICATE THE NUMBER. THE INDICATED ROUND NUMBER WILL APPEAR ON THE MONITOR SCREEN WHEN THE OPTION SWITCH IS TURNED "OFF".

THIS TAG TO BE TYPESET AND REPRODUCED IN BLACK INK ON HEAVY WHITE	8" x 11"	CARD STOCK
TOLERANCE = + 1/2"		

INDICATES FACTORY RECOMMENDED SETTINGS

PART NO. M051-00A87-B007

#### GAME PLAY

With the eight-way joystick, maneuver your fighter and fire your missiles using the firing button to shoot down "GAPLUS".

"GAPLUS" comes in different varieties. Depending upon the variety and the flight pattern, the number of points received will vary. Also, when "GAPLUS" is in formation, the number of points received will vary. The following indicates the number of points each "GAPLUS" is worth at different times.

		When in Formation	When Attacking
(a)	Queen Gaplus	100	400
(b)	Ad Gaplus	100	400
(c)	Cap Gaplus	100	300
(d)	Lute Gaplus	100	200
(e)	Zako Gaplus	100	100

Destroy all "GAPLUSES" and the round will clear. The "QUEEN GAPLUS" possesses the BLASTER HEAD. When the QUEEN GAPLUS is shot down, the Blaster Head will connect onto the player's fighter enabling it to power up!!!

#### " PHALANX ATTACK:

The tractor beam will swallow up the enemy and reform them to the good side as your fighter's ally. Result...multi-missle attacking capability.

#### " HYPER ATTACK:

Moving at lightening speed, the player's fighter will fire off missiles in the multiples of two.

#### ° CYCLONE ATTACK:

The cyclone beam will draw in the enemy and smash them apart!!! Points received will double each time,  $200, 400, \dots 6,400!$ 

When throwing off his beam, the player's fighter can only move right and left. Also, when the Blaster Head is mounted onto the fighter's plane, he will become invincible.

When the Blaster Head is connected onto the Queen Gaplus and it is hit once, the Queen will change colors. You must hit it one more time to destroy the Queen.

#### Challenging Stage:

- "The Challenging Stages are in Rounds 3, 8, 13, 18, .... During this stage, the enemy will continually fly about the screen. At the top of the screen, Gaplus will form a letter or a bar across the screen. When all the Gapluses leave the screen, the following bonus points are given.
- " The number of Gapluses to form a letter x 100
- $^{\circ}$  The number of Gapluses to form a bar x 200

Also, if the letters are completed, the following

- " "B 0 N U S"  $\,$  --- Bonus points of 10,000 " "G A P L U S"  $\,$  --- Bonus points of 0 5,000

(Push the firing button to stop the rotating number located under your total score and then your grand total will appear.)

- ""D O U B L E" --- Bonus points will double.
- " "T R I P L E" --- Bonus points will triple.

#### Star Flash:

° A flash will appear on the screen and at the same time a star will appear attacking the player's fighter. When the star approaches the fighter, it will split up into four parts. The fighter must fire his missiles at all four parts.

#### "Bean Curd" (Tofu) Attack:

° When Gaplus peels off from the formation and is hit, his ghost (looking like a Bean Curd) will fall from the sky. The fighter must shoot it down.

If the player's fighter is touched by: Gaplus, missiles, star flash or the bean curd; it is a miss. The Blaster Head will disintegrate when a miss is made.

During the Phalanx Attack when Gaplus has become the fighter's ally, if Gaplus is touched by a missle or bean curd it is not a miss.

As bonus points are added up, a bonus ship will be awarded. The Queen Gaplus will bring down parts of the fighter's plane (three in all). When all three are put together, one bonus ship is added on.

The Best players to date can enter their initials on the screen by using the joystick to select a letter and then pushing the FIRE button.

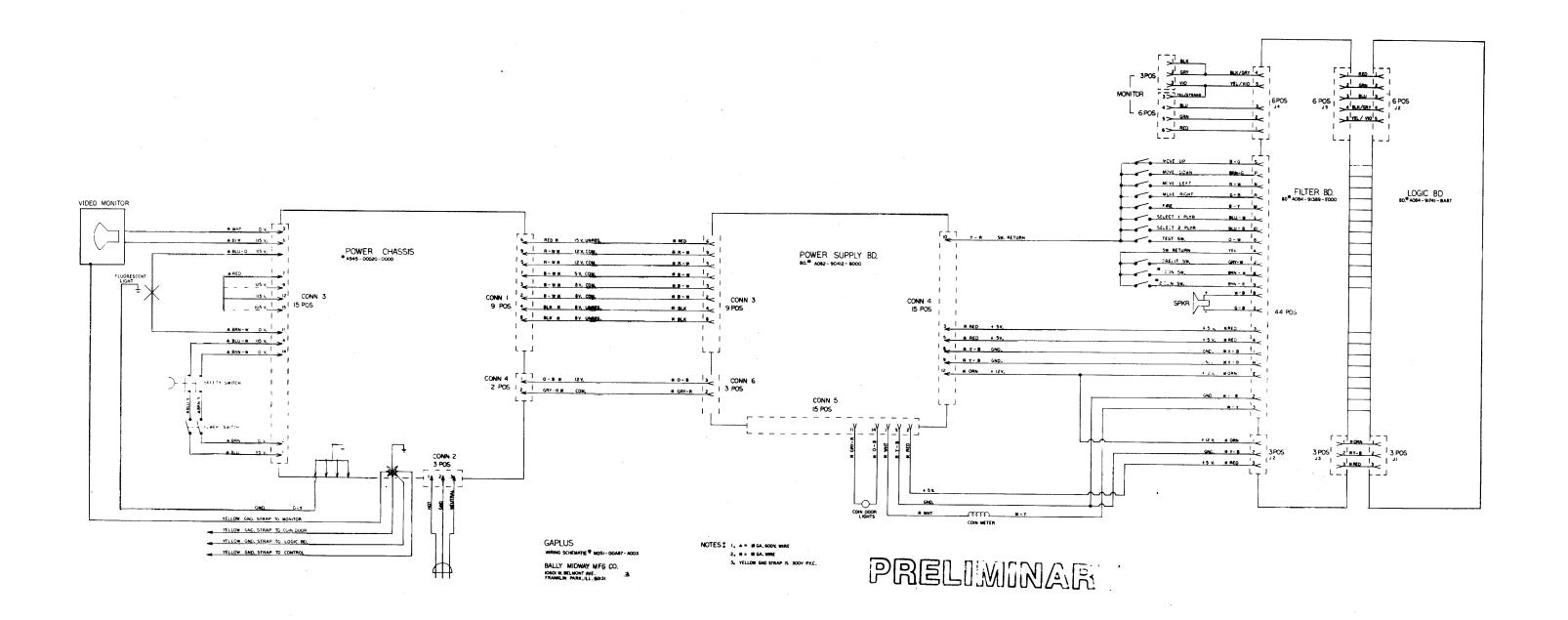
## BALLY/MIDWAY'S GAPLUS U.R. #0A87 PROGRAMED PART NUMBERS

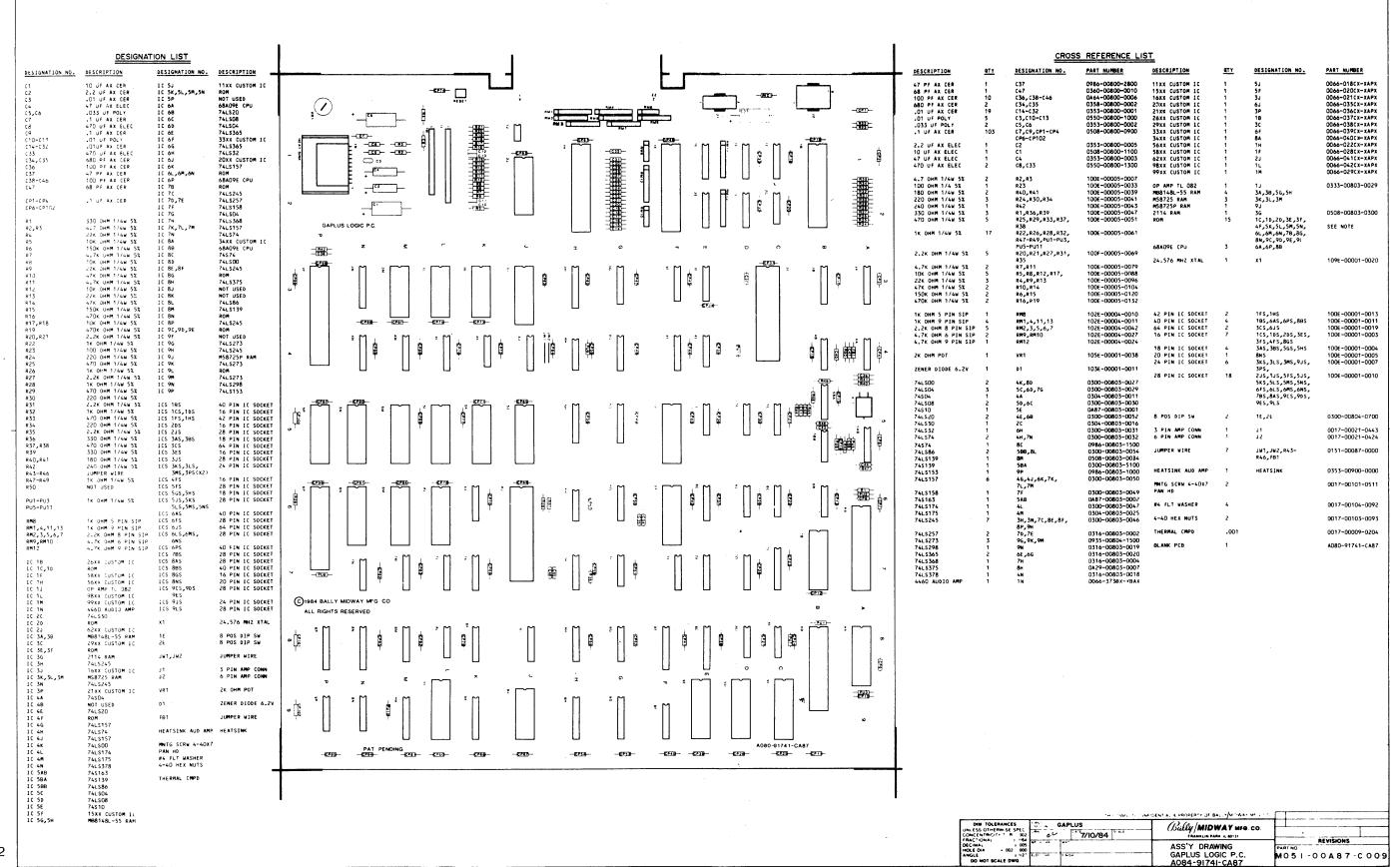
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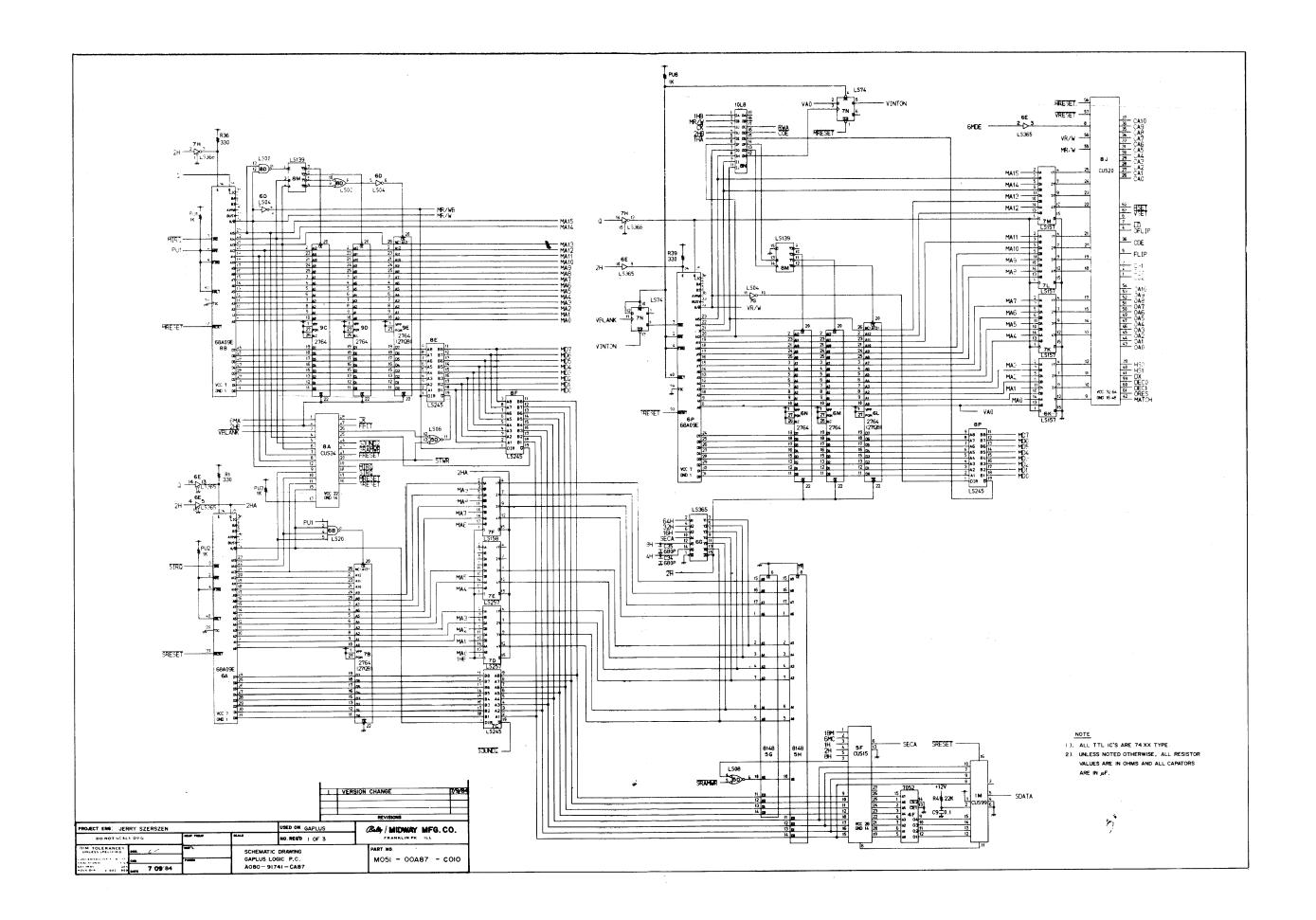
POS.	MIDWAY PART NUMBER
8 N	0A87-00803-0003
3E	0A87-00803-0004
3F	0A87-00803-0005
1 D	0A87-00803-0006
2 D	0A87-00803-0007
1 C	0A87-00803-0008
4F	0A87-00803-0009
8G	0A87-00803-0010
7B0	0A87-00803-0011
9C1	0A87-00803-0012
9D2	0A87-00803-0013
9E3	0A87-00803-0014
9L4	0A87-00803-0015
6N5	0A87-00803-0016
6M6	0A87-00803-0017
6L	0A87-00803-0018
5 N	0A87-00803-0019
5 L	0A87-00803-0020
5 M	0A87-00803-0021
5 K	0A87-00803-0022

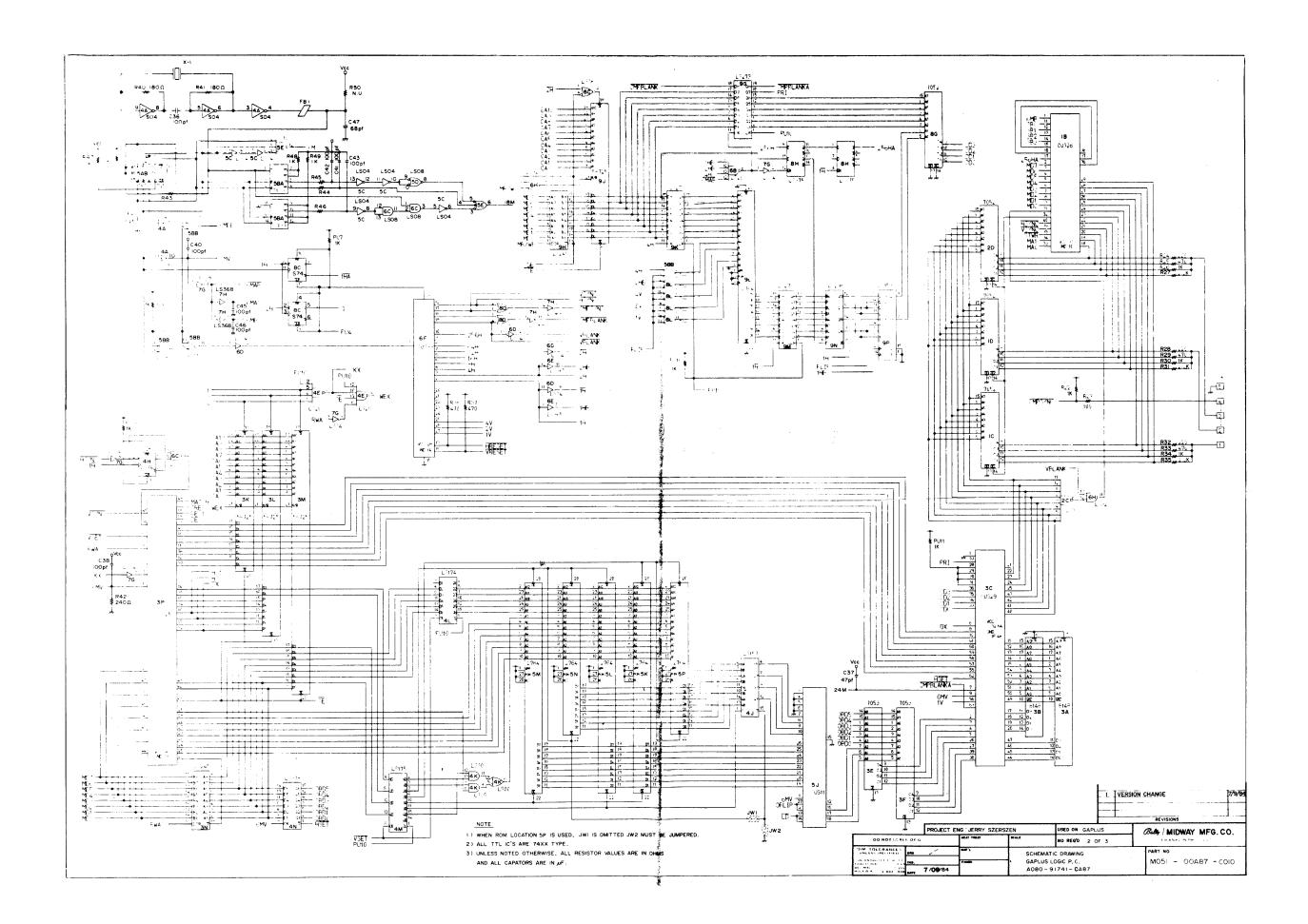
## PRELIMINARY

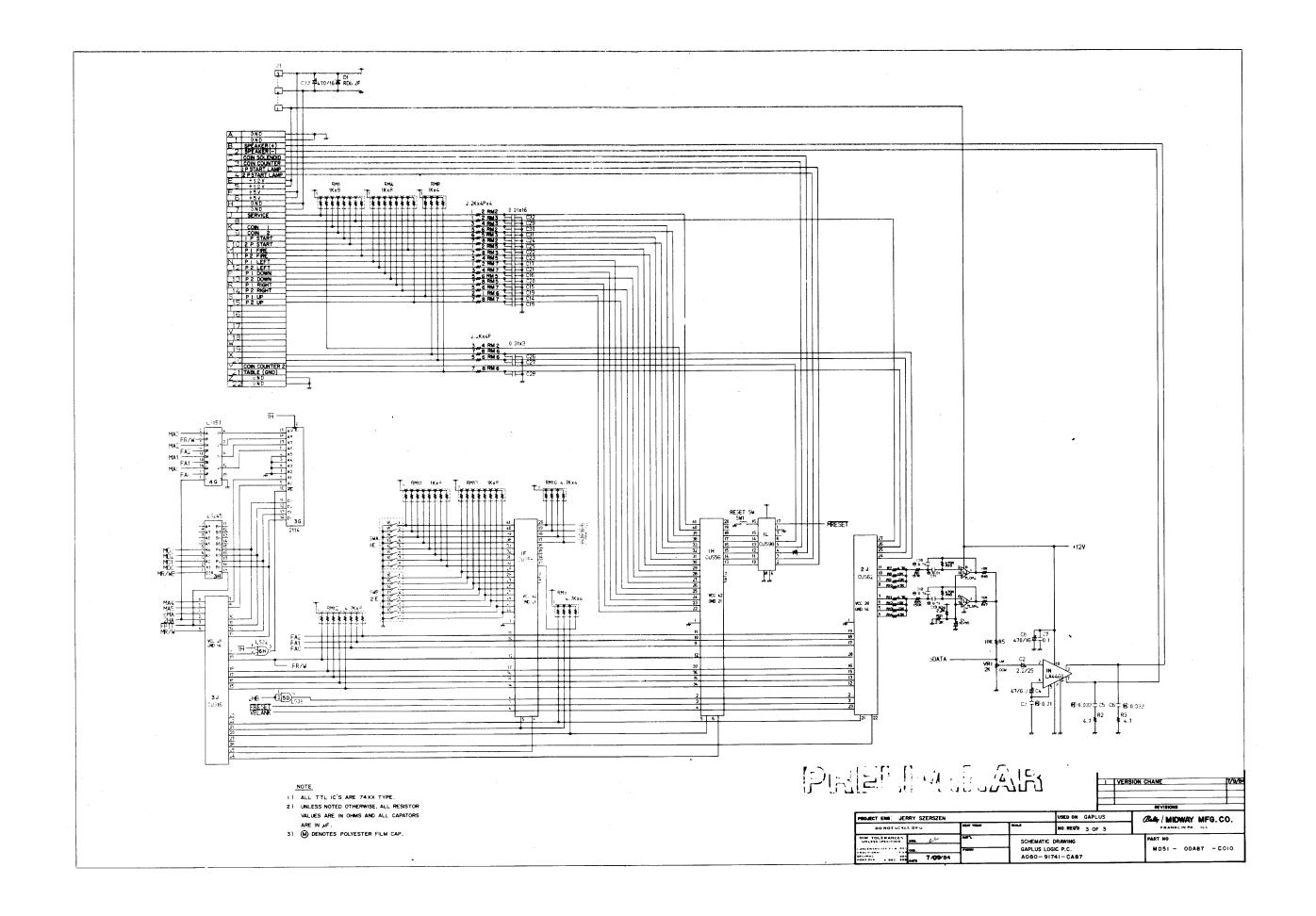
		•
6/29/84	RELEASE FOR PRODUCTION	

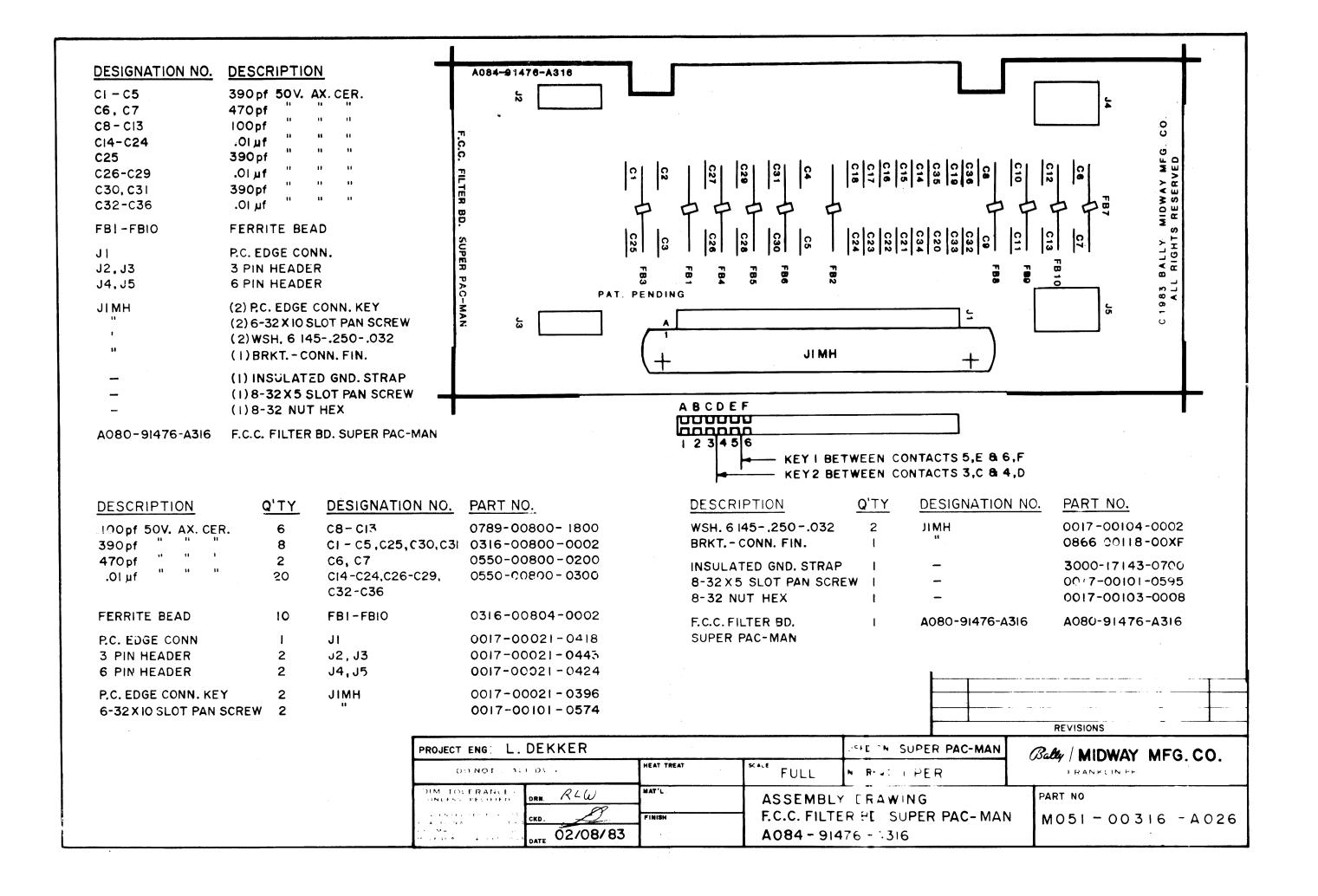




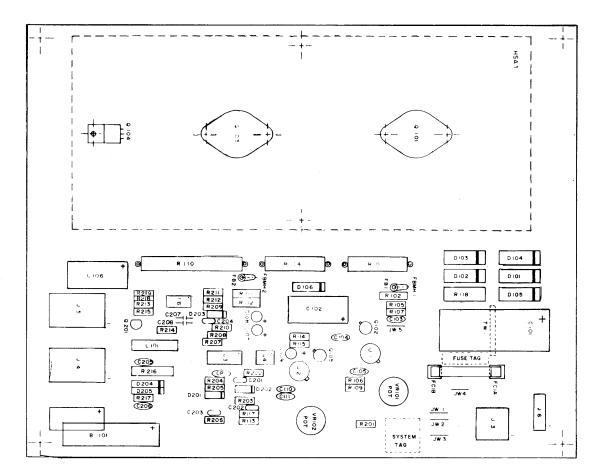








: Jesignation •	DESCRIPTION	DESIGNATION .	DESCRIPTION	DESIGNATION#	DESCRIPTION	DESCRIPTION	Q'ty	DESIGNATION #	PART #	DESCRIPTION	Q'ty	DESIGNATION .	PART .
2 6 3 10 10 10 10			4 (4 M) E %	U 1	LM305 REG.	47pf AX. CER.	1	C 105	0945-00811-0100	LM305 REG.	2	U1,2	0945-00813-0100
C 1 O 1	4700uf AX. ELECT	R117	560ohm 1/4W 5%	U2	LM305 REG	820pf AX. CER.	1	C205	0945-00816-0400	55 <b>5</b>	1 .	U6	0929-00810-4500
C 1 0 2	470uf AX. ELECT.	R118	150ohm 2W	U3	LM3900	.01uf AX. CER	2	C206, 208	0945-00816-0100	LM3900	1	U3	0945-00813-0200
C 1 0 3	.1uf AX. CER.	R 2 0 1	270ohm 1/4W 5%	U <b>4</b>	1N28	.01uf MYLAR	2	C201,203	0945-00316-0200	4N28	1	U4	0945-00813-0300
C 104	.1uf AX. CER.	R 2 O 2	1.2K 1/4W 5%	U6	555	.033uf MYLAR	1	C203	0945-00816-0500			•	0945-00813-0300
C 105	47pf AX. CER	R203	1.1M 1/4W 5%	00	•••	.047uf MYLAR	1	C204	0945-00816-0300				
C106	470uf AX. ELECT.	R 2 O 4	3.3M 1/4W 5%			0.082 of AX.CER	i	C207	0945-00816-1900	A15F RECTIFIER	5	D101-105	0945-00804-0200
C 107	100ut RD, TANT.	R205	10M 1/4W 5%			.1uf AX. CER.	5	C103,104,11C,111,	0945-00811-0200		•	5.01 55	0943 00804-0200
C108	1ut RD, TANT.	R206	100K 1/4W 5%	L101	.22uH INDUCTOR			CP1	••••				
C 1 0 9	4.7ul RD. TANT	R 2 0 7	33K 1/4W 5%			1uf RAD, TANT	1	C108	0910-00811-0300	1N4001	9	D106,204,205	0945-00804-0300
C110	1uf AX. CER.	R208	2M 1/4W 5%		•	4.7uf RAD, TANT	1	C109	0945-00811-0400	1N4 148	3	D201-203	0945 00804 0500
C111	.1uf AX. CER.	R209	1M 1/4W 5%	8101	BATTERY 3.6VDC 60DEG-C	100ut HAD, TANT	1	C107	0945-00811-0500		3	D201-203	0945 00804 0500
	.01u! MYLAR	R210	1.2M 1/4W 5%	8101	BRITEIT GOODS TO TO	470u' AX. ELECT.	2	C102,106	0945-00816-0600				
C 2 O 1	03341 MYLAR	R211	75K 1/4W 5%			470C Jf AX. ELECT.	1	C101	0945-00811-0700	2N2905	2	Q 102,105	0945 - 00808 - 0300
C 2 O 2	Oluf MYLAR	R212	75K 1/4W 5%					0.0.	0343 00011 0100	2N4401	1	Q201	0945-00804-0400
C203	.047ut MYLAR	R213	220K 1/4W 5%	F1	3 8A S BLO FUSE								•
C 2 O 4	820pf AX. CER.	R 2 1 4	3.9K 1/4W 5%										
C 2 U 5	Oluf AX, CER.	R215	1.2K 1/4W 5%										
0206 0208	0.082uf MYLAR	R 2 1 6	820hm 1W 10%	FC1A,1B	FUSE CLIP	.16ohm 15W 5%	•	R110	0945-00815-0100	BATTERY 3 6VDC 60DEG C	1	B10 1	0017-00003-0377
C207		R2 17	270ahm 1/4W 5%			.180hm 5W 5%	1	R101	0945-00815-0100	FUSE 3/8A S BLO	1	F 1	0945-00808-0400
		H218	110K 1/4W 5%			6.80hm 1/2W 5%	1	R111	0062-047D3-1XXX	FUSE CLIP	2	FC1A,1B	0017-00003 0214
		R219	68 ohm 1/2 W 5%	FE i.2	FERRITE BEAD	10ohm 5W 5%	1	R104	0945-00812-0100	TIE WRAP	1	TW 1	0945-00814-0300
						27ohm 1/4W 5%	,	R 105		FERRITE BEAD	2	60.4	
						47ohm 1/4W 5%	1	R114	0062-068B3-1XXX		•	FB1,2	0017-00009-0225
		VR101,102	100ohm POT	TW 1	TIE WRAP		,	R102,112,219	0062-086B3-1XXX	FERRITE MOUNTING HOW	-?	FBMH1,2	0017-00033 0135
		***************************************				68ohm 1/2W 5%	3		0062-098D3 1XXX				
	0 f D					820hm 1W 10%		R216	0062-104F5 1XXX				
CP1	1uf AX CER.					150ohm 2W 5%	<del>-</del> -	R118	0945-00812-0200	22uH INDUCTOR	1	L 101	0945-00814-0200
				J3	9PIN P.C. MOUNT CONN.(MALE)	160ohm 1/4W 5%	!	R115	0062-124B3-1XXX	FUSL TAG	1		M051-00945-A004
				J4	15PIN P.C. MOUNT CONN.(FEMALE)	270ohm 1/4W 5%	3	R106,201,217	0062-138B3-1XXX	SYSTEM TAG	1		M051-00945-A009
		D101	A 1 5 F	J5	15PIN P.C. MOUNT CONN.(MALE)	560ohm 1/4W 5%	1	R117	0062-162B3-1XXX	P.C.B.	;		A080-90412-U000
8101	18 hm 5W W/RES SPACER	D102	,A15F	J6	3PIN P.C. MOUNT CONN.(MALE)	1K 1/4W 5%	1	R109	0062-179B3-1XXX	7.0.0.			A080 30412 0000
	68ohm 1/2W 5%	D103	A 15F			1.2K 1/4W 5%	3	R113,202,215	0062-183B3-1XXX				
R 1 0 2	100hm 5W W/RES. SPACER	D104	A 15F		FUSE TAG	3.9K 1/4W 5%	1	R214	0062-207B3-1XXX				
R104	27 ohm 1/4W 5%	D105	A 15F	LB1	FUSE TAG	6.2K 1/4W 5%	1	R 107	0062-217B3-1XXX				'
R 105	270ohm 1/4W 5%	D106	1 N 4 0 0 1	LB2	SYSTEM TAG	33K 1/4W 5%	1	R207	0062-251B3-1XXX	HEAT SINK ASS'Y	1	HSA 1	1015 00000 00
R106	6.2K 1/4W 5%	D201	1 N 4 1 4 B			75K 1/4W 5%	2	R211,212	0062 269B3 1XXX	( SEE HS ASS'Y DRAWING " XX	HOTE"	nom i	A945-00008-0000
R107	0.2K 1/4# 5~	D202	1 N 4 1 4 8		HEAT SINK ASS'Y 1	100K 1/4W 5%	1	R206	0062-275B3 1XXX	( 4-40 X 10 SLT RND	2 (1016	MH HSA 1A, 2A.	0017 - 00101 - 00727
		D203	1N4148	HSA 1	HEAT SINK ASS ! !	110K 1/4W 5%	1	R218	0062-277B3-1XXX	** 4-40 HEX NUT	-	MH HSA 1E, 2E.	
		D204	1N4001		MOUNTING HARD WARE(HEAT SINK)	220K 1/4W 5%	1	R213	0062-291B3 1XXX	WSH 4-120-,250-018	2		0017-00103-0002
		D205	1N4001	MHHSA 1	2 SCREW	1M 1/4W 5%	1	R209	0062-323B3 1XXX	( WSH 4-120250-018	4	MH HSA 1B,1D	0017-00104-0071
		5			2 SCHEW 4 WASHER	1.1M 1/4W 5%	.1	R203	0062-325B3 1XXX			MH HSA 2B, 2D	
						1.2M 1/4W 5%	1	R210	0062-327B3-1XXX				
R109	1K 1/4W 5%				2 HEXNUT	2M 1/4W 5%	1	R203	0062-337B3 1X≠X	3PIN P.C. MOUNT CONN. (M		J6	0017-00021 0440
R110	160hm 15W W/RES. SPACER					3.3M 1/4W 5%	1	R204	0062-347B3 1XXX	9PIN P.C. MOUNT CONN.(M		J3	0017-00021 0425
R111	6.8ohm 1/2W5%					10M 1/4W 5%	1	R205	0062-371B3-1XXX	15PIN P.C. MOUNT CONN.(F		J4	0017-00021~044
R111	68ohm 1/2W 5%			JW 1- 5	JUMPER WIRE					15PIN P.C. MOUNT CONN.(	MALEJ 1	J5	0017-00021-0440
R112 R113	1 2K 1/4W 5%	Q102	2N2905										
	470hm 1/4W 5%	Q105	2N2905	FBMH1.2	FERRITE BEAD MOUNTING HARDWARE	100ohm PO7	2	VR101,102	0945-00814-0000	22 AWG T & R BARE 2.5"	5	JW1-5	0151-00087-0000
R114	160ohm 1/4W 5%	Q201	2N4401	FBMH1,2	TEMATIC BEAD MOSITING					22	•	34.0	3.31-33387-3330
R 1 1 5	10001111 17317 0 0												



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			A	REVISIONS			
PROJ. ENG.: L. DEKKER			UHED ON SATAN'S HOLLOW	MIDWAY MFG. CO.			
DO NOT ICALE DWG	MALL DOLL	FULL	NO PEOD	FRANKLIN PK I LL			
THE FOLERANIES IN SEL	SAT !	ASSEMBL	Y DRAWING 125 VAPWR	SPY PARTNO			
	rear or		M051 -00945 -D006				
5/17/82		AOE	32-90412-D000				

