1.0 Specifications

1.1 <u>Conversion Game Specifications</u>

Power Supply:

Switching Power Supply, 200 Watts

Power Consumption: 600 Watts

Monitor:

One (1) 46" Rear Projection Color Monitor

1.2 <u>Kit Specifications:</u>

PCB Kit

Namco Super System 22 PCBs

Harness

Decals, Signs, Labels

1.3 <u>Game Conversion Overview</u>

The Air Combat SS22 upgrade kit consists of the Air Combat SS22 PCB kit, a new wire harness and assorted decals/signs/labels. The kit can be installed in the original Air Combat cabinet.

2.0 INTRODUCTION

This manual provides installation instructions for Air Combat SS22 kits. Inspect the kit contents, compare against the (included) parts list and notify the distributor about any damaged/missing parts.

3.0 INSTALLATION

3.1 <u>Precaution3</u>

- 1. Before replacing any parts, turn the AC power OFF and unplug the game.
- 2. The game power supply includes areas of HIGH VOLTAGE. Take care at all times to avoid electrical shock when working on the game.

3.2 <u>Game Installation</u>

- 1. Verify power has been removed from game.
- 2. Unlock access door on RHS and remove game chassis.
- 3. Disconnect AMP connector and Ground strap from game chassis.
- 4. Rather than separating remaining connectors of harness all at once, it would be to your advantage to do them one at a time, replacing the "old" with the "new" as you go.
- 5. Mount Audio Amp board to Super System 22 chassis using the 3 screws provided. Refer to Card Cage Super System 22 Assembly drawing for correct position.
- 6. Using AC22 Overall Layout drawing, connect the new cable harness to SS22 Mother PCB and Audio Amp connectors. The new cable harness connectors are labeled to match the board connectors they connect with.
- 7. Remove the old chassis from the mounting board and place the new SS22 chassis in its place. Position the new chassis so that a side with the ventilation holes faces the fans mounted inside the cabinet. This will help to promote air flow through the chassis. Secure the chassis to one of the mounting holes using an existing screw. Drill new holes for additional mounts if desired.
- 8. Attach Ground strap to new chassis.
- 9. Remove cables @ J201, J 2 0 2 & J203 from 2 Ch Amp PCBs.

- 10. Match the new harness connectors labeled J202 & J203 with the connectors on either 2 Ch Amp board and verify they mate properly (molex or mate-n-lock). A converter cable is included in the harness for the power lines connecting to J20 1. If the harness connector labeled J201 matches the board connector J201, connect them. If the connectors differ, you'll find the proper connector about 5" back on the orange and black power leads. Remove the (now unnecessary) orange-black converter-cable and connect the connector at J201.
- 11. Referring to the AC22 Overall Layout drawing, separate the 12-pos connectors (on the original cable) coming from beneath the seat assy and connect (from the new harness) the 12-pos connector labeled '20'.
- 12. Separate the other 12-pos connectors (on the original cable, coming from the CRT) and connect the new 12-pos connector labeled '25'.
- 13. Separate the 15-pos connectors (the ones with 11 -wires) and connect the 15-pos connector labeled '24'.
- 14. Separate the other 15-pos connectors (the ones with 14-wires) and connect the 15-pos connector labeled '17'. For more exact ID, both the connector you are replacing and the new one are unique in that they have 2 orange wires going into the same pin-hole.
- 15. Separate the 9-pos connectors and connect the (unlabelled) 9-pos connector.
- 16. Separate the 6-pos connectors and connect the 6-pos connector labeled '16'.
- 17. You should now have totally replaced the original harness with the new harness. Verify there are no open/unused connectors on the new harness.
- 18. Cut the cable ties fastening the original harness to mounting board and remove.
- 19. Verify all connectors are joined and that cable/harness routing isn't restricted by chassis edges, etc.
- 20. With SS22 chassis mounted and cabling complete, slide mounting board into cabinet and re-verify proper positioning of chassis (ventilation holes) in front of fans. Forced-air flow (whether the fans are cabinet-mounted or chassis-mounted) is necessary for proper game operation.
- 21. Position Card Cage Shield over card cage, aligning mounting holes with 1/4-20 bolts coming from ceiling of cabinet (beneath joystick). Either remove the nuts and fasten the shield in place (using the same nuts) OR simply guide the shield onto the bolts and fasten in place with additional 1/4-20 bolts.

3.3 <u>Cabinet Graphics</u>

- 1. Install the cabinet graphics provided. Float the graphics on by applying a spray of ammonia cleaner to each surface. Smooth out the bubbles and liquid with a paint squeegee. Wipe the decal dry with a soft cloth.
- 2. Install the marquee overlay and panel in place of the existing marquee.
- 3. Install the game play instructions provided with the kit on top of the marquee.
- 4. For help in correctly positioning decals, etc., refer to Air Combat 22 flier.

3.4 Set Up and Test

1. Refer to sections 5 & 6 in the Air Combat Operators manual for Adjustments and How to Play instructions. Be sure to check the factory game and coin settings.

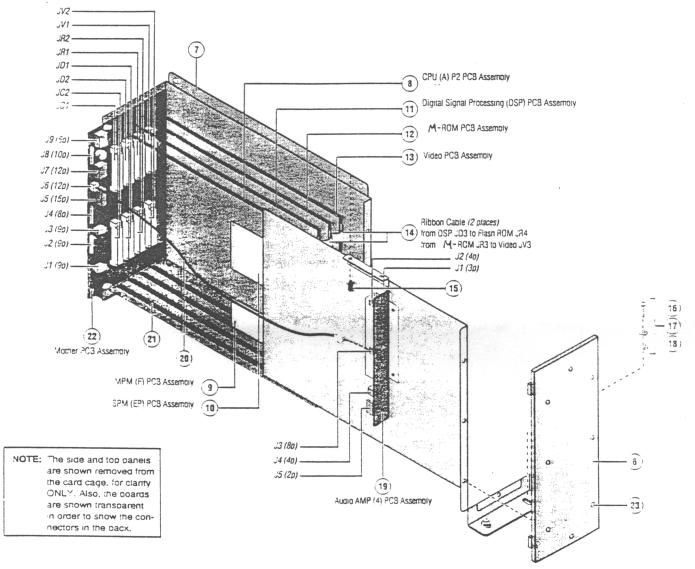


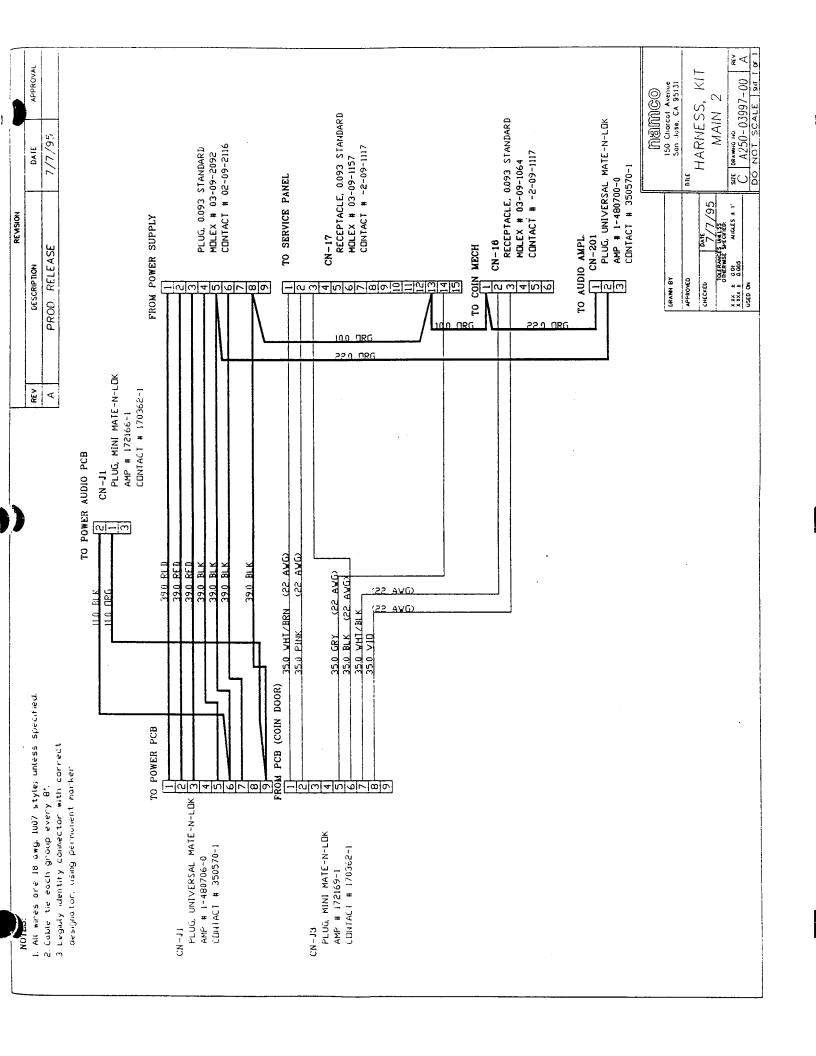
4.0 PARTS LIST

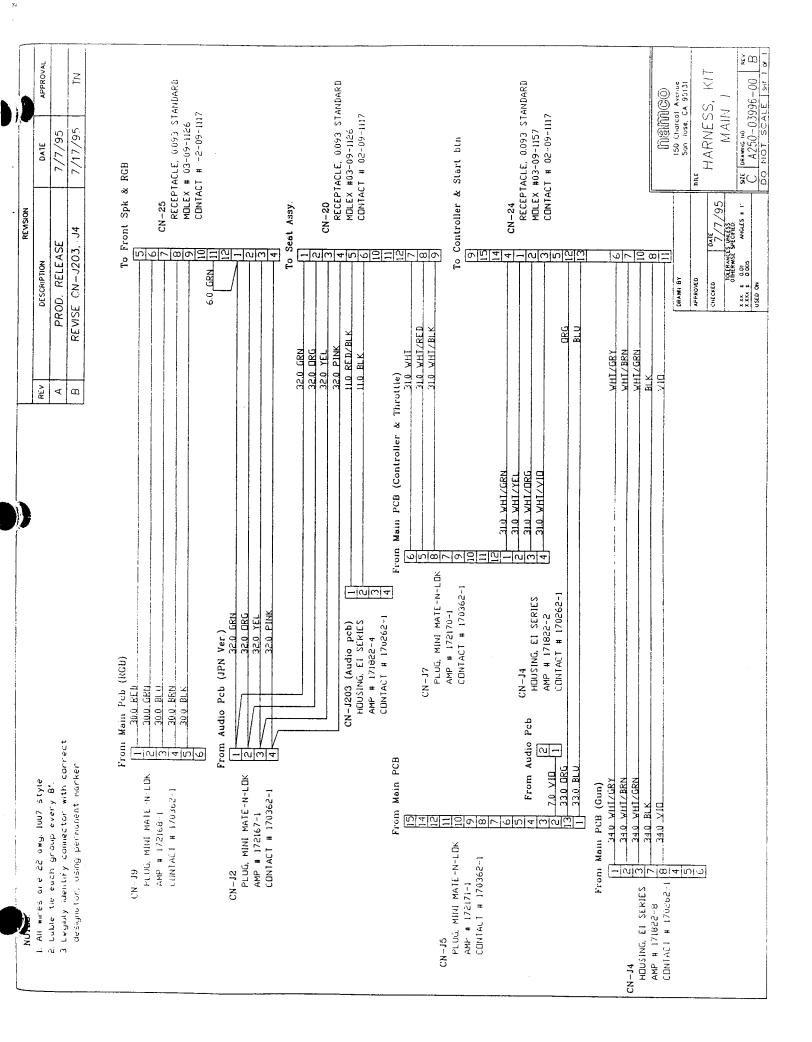
NAMCO P/N	Description	Qty	U/M
A205-03684-00	PCB Kit, Air Combat SS22	1	ea
A210-03593-00	Shield, Card Cage	1	ea
A210-04089-00	Sign Bracket	1	ea
A240-03540-00	decal, bottom, rear panel	1	ea
 A240-03853-00	decal, side panel, cockpit, right	1	ea
A240-03855-00	decal, side panel, cockpit, left	1	ea
 A240-04013-00	decal, marquee acry, sc, w/50" mon	1	ea
 A240-04037-00	decal, mon, side cabinet, top left	1	ea
 A240-04037-01	decal, mon, side cabinet, top right	1	ea
A240-04038-00	decal, mon, side cabinet, center	2	ea
 A240-04039-00	decal, mon, side cabinet, bottom	2	ea
A240-04044-00	decal, side panel, bottom st, rt PCB door	1	ea
A240-04045-00	decal, bottom side panel, left front	1	ea
 A240-04045-01	decal, bottom side panel, left back	1	ea
 A240-04045-02	decal, bottom side panel, right w/cash box	1	ea
A240-04045-03	decal, bottom side panel, right w/PCB door	1	ea
	NOTE: comes with A240-04044-00		
 A240-04054-00	decal, Eagle Squad 2, View Chg 1	1	ea
A240-04056-00	Sign, Instruction	1	ea
 A245-04493-00	Manual, Instructions	1	ea
A250-03996-00	cable	1	ea
A250-03997-00	cable	1	ea
A250-04015-00	cable	1	ea
 A250-04016-00	cable	1	ea
 A295-04475-00	Acrylic, Marquee Cover, kit	1	ea

Card Cage Super System 22 Assembly

WARNING: DO NOT separate board set.







SITE DRAMIC NO C 4250-04015-00 B DO 110T SCALE | SIT 1 OF 1 APPROVAL HARNESS, KIT Malmeo MAIN 3 7/7/95 8/7/95 DATE nırç CDNTACT # 170263-1 AMP # 171822-5 CDNTACT # 170263-1 HOUSING EI SERIES AMP # 171822-8 CN-J202 HDUSING EI SERIES REMSION PRODUCTION RELEASE REVISED P/N ON J6 CN-13 X XXX \$ 0.01 X XXX \$ 0.005 USED ON **DESCRIPTION** To Audio Pcb To Audio pcb DRAME BY APPROVED CHECKED -UN 4 5 9 7 B -UE 4 C A A B 210 VIITZBRN 5.0 GRN 5.0 VHI/BLU 210 WHIZBLK 5.0 VHI/GRN 50 BLU From Main Pcb 2. Luble tie eoch group every 8". 3. Leguly identify comiector with correct designator, using permonent marker 1. All wires of e 22 ang. 1007 style HOUSING, EI SERIES AMF # 1-171822-2 CONTACT # 170263-1 CN-18

NOT SCALE | Set 1 or 1 APPROVAL HARNESS, KIT A250-04016-00 Milelinico 150 Charcot Avenue San Jose, CA 95131 MAIN 4 1/795 DAIE PILE CAP, UNIVERSAL MATE-N-LDK AMP # 1-480701-0 CDNTACT # 350561-1 REMSION PROD. RELEASE DESCRIPTION X XX # 000 X XXX # 0005 USCD ON . APPROVED. CRAME BY CHÍCKED - ac REV 4 50 BLK 5.0 DRG HDUSING, 2139 SERIES MDLEX # 09-50-7031 CDNTACT # 08-50-0105 (Chain) DR # 08-50-0106 (Louse) 2. Luble the each group every 8. 3. Legibly identity connector with connect designator, using permanent marker <u>-</u>1000 1. All mires ore 18 ang. 1007 style

APPROVAL RECEPTACLE, .093 STANBARD MOLEX # 03-09-1052 CONTACT # 02-09-1117 7/7/95 DATE REMSION CN-LINK PREL RELEASE DESCRIPTION To Audio Pcb <u> –|ഗിധ14|</u>സ REV 35.0 VHI 28.K 35.0 VIII./RED. 35.0 VHT/YEL 35.0 VID From Main Pcb (LINK) 1. All wires are 22 awg, 1007 style 2. Cuble tie each group every 81. 3 Legisly identify connector with correct designator, using perhament marker AMP # 171822-9 CUNTACT # 170263-1 HOUSING, EL SERIES

