













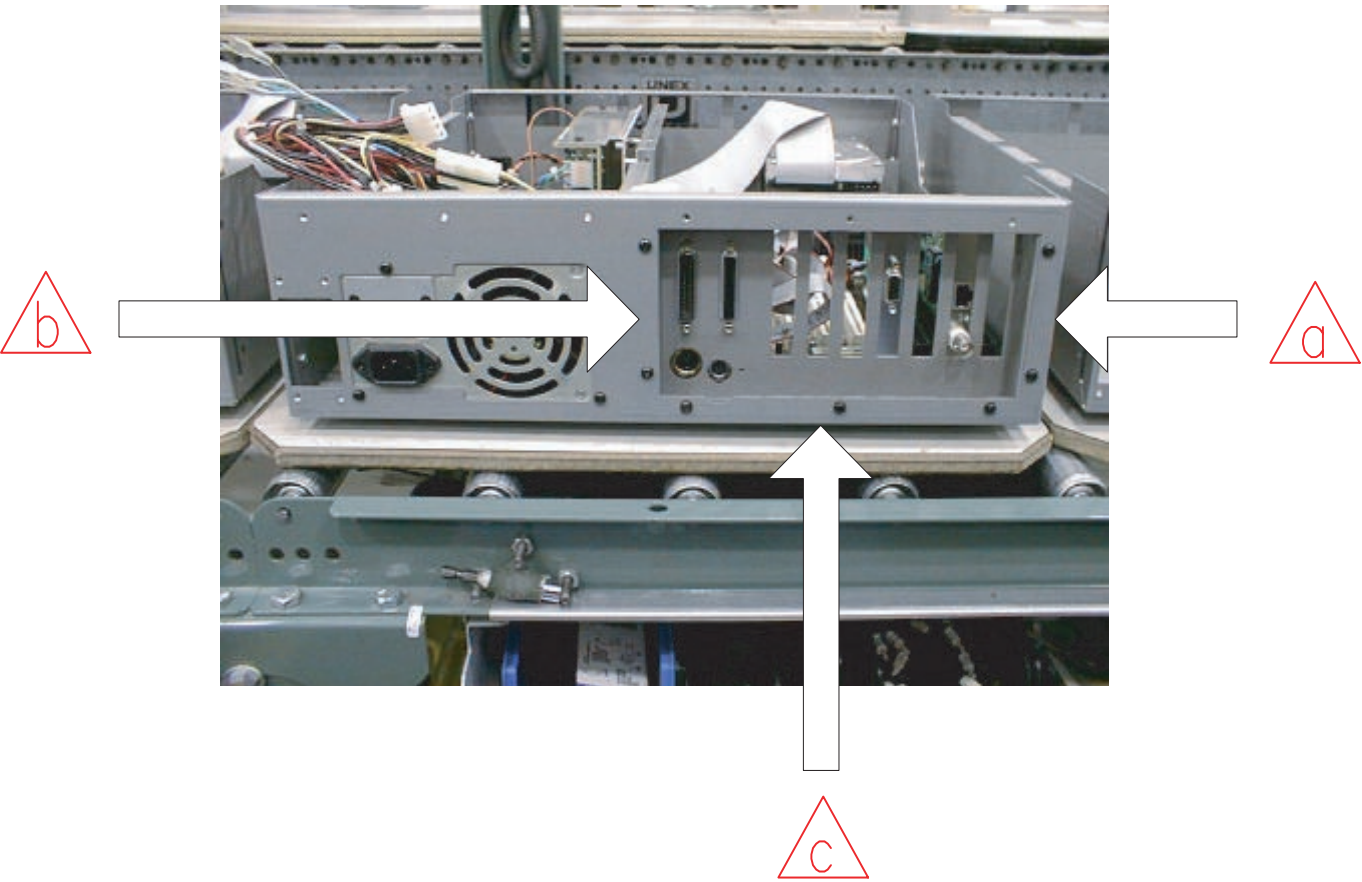


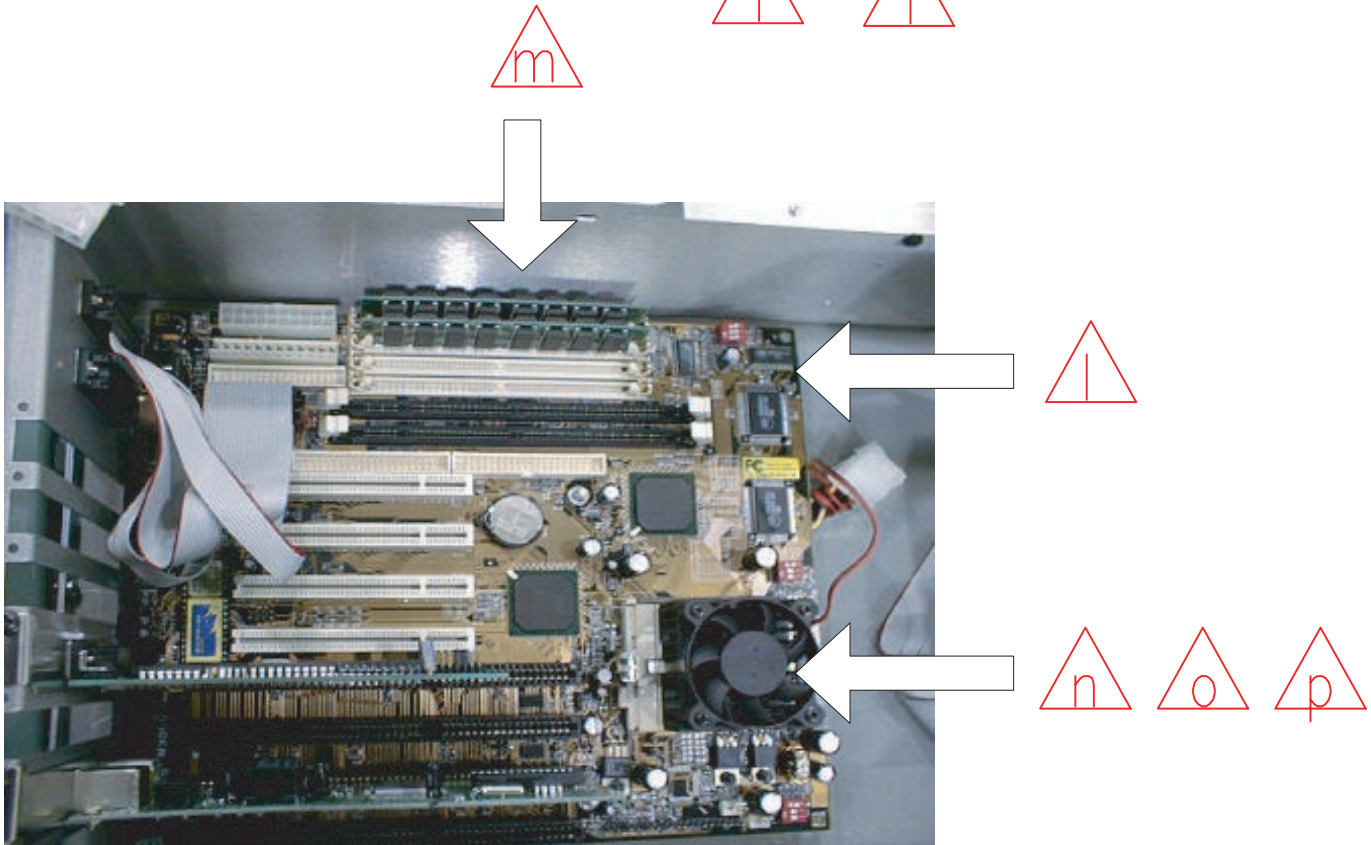
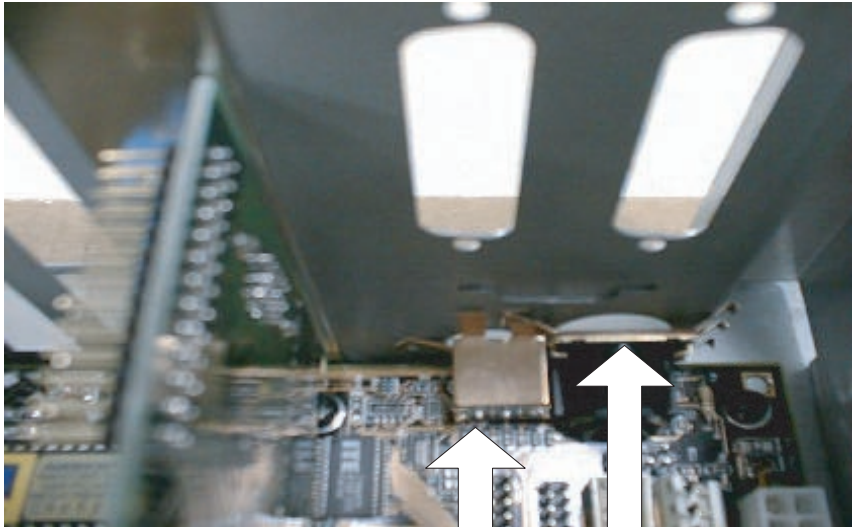
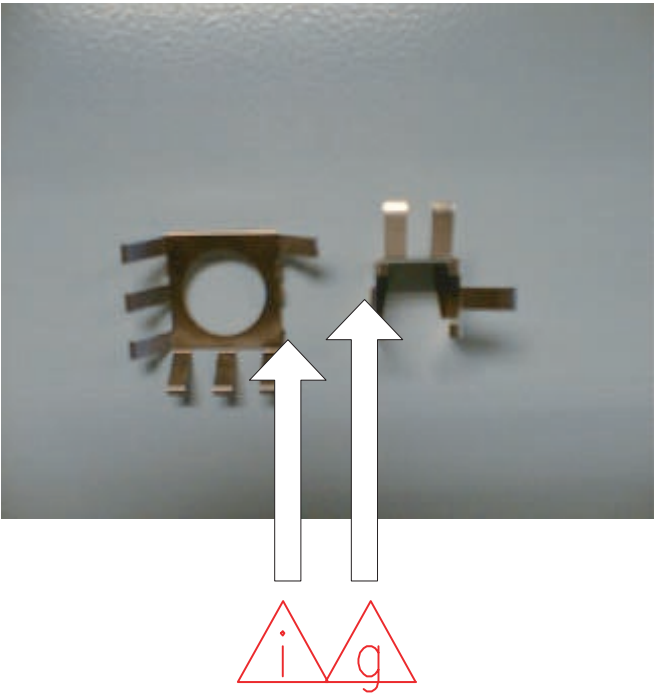
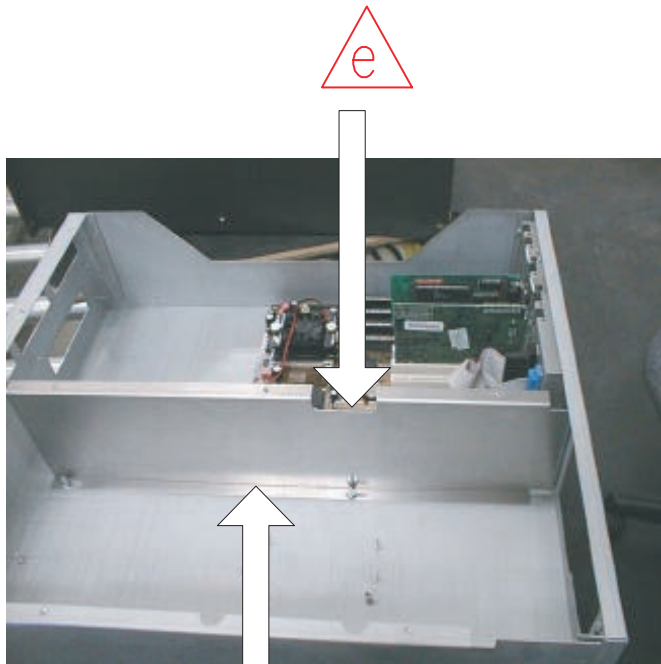
REF #	PART	PART NBR	CREV	QTY
①	FAB CARD RACK D8 PWR SPLY	550-453-00		1
②	FAB CHASSIS D8 PWR SPPLY	550-451-00		1
③	SEMS 6-32x1/4 PHP BLKZC	700-028-00		10
④	FAB SHIELD D8 PWR SPLY	550-415-00		1
⑤	KEPNUT 6-32	705-001-00		2
⑥	GROMMET STRIP MEDIUM	740-007-01		2.8"
⑦	STDF NYL 1/2" SNAP-IN	706-059-00		2
⑧	TF 6-32x3/8 FL 100 DG BLK	700-086-00		2
⑨	SA GASKET MOUSE PORT	080-100-00		1
⑩	OEM MOTHER PM 9800 INTEL	080-113-00	A1	1
⑪	SA GASKET KEYBOARD PORT	080-099-00		1
⑫	DRAM 72P SIMM 8MB 2x32	480-015-00		2
⑬	MICRO PROC PENTIUM 166MHz	329-049-03	A1	1
⑭	THERMAL JOINT COMPOUND	730-001-00		A/R
⑮	FAN MICROPROC W/HTSK	480-008-00	A1	1

SEQ.	TASK
	Attach Card Rack ① to rear of Chassis ② on outside edge only. Mount on inside of unit with connector holes toward the CENTER of the unit. THE RACK WILL PROTRUDE INTO THE UNIT! Screw in from the outside using ③ (2x)
	Attach end of SHIELD ④ to chassis rear and Card RACK using Screw ③ (2x) from the outside. The CUTOUT will be on TOP
	Attach BOTTOM of CARDRACK to chassis using SCREW ③ (3x)
	Attach SHIELD to center of chassis bottom using NUTS ⑤ (2x)
	Attach GROMMET STRIP ⑥ to cutout in shield. Make sure it locks under ledge on the ends.
f	Attach STANDOFFS ⑦ (2x) to Mother Board Mounting Holes on chassis bottom using SCREW ⑧ (2x). Screw in from BOTTOM. Use mounting hole closest to side and the second one on the same plane
	Cut leg on MOUSE GASKET ⑨. <b>IT IS CRITICAL TO CUT THE PROPER LEG!</b>
	Place MOUSE GASKET over mouse port (smaller of two) on rear of MOTHER BOARD ⑩ with legs pointing away from the board.
	Cut 2 legs on KEYBOARD GASKET ⑪. <b>IT IS CRITICAL TO CUT THE PROPER LEG!</b>
	Place KEYBOARD GASKET on keyboard port (larger) on rear of mother board with legs pointing away from the board.

SEQ.	TASK
------	------

k	Configure MOTHER BOARD by setting DIP SWITCHES: SW1-ALL OFF; SW2-1 ON, 2 ON, 3 OFF; SW3-1 ON, 2 ON, 3 OFF.
	Mount the Mother Board to the chassis. Push on over STANDOFFS. SCREW other end using screws ③ (3x). Make sure both gaskets stay pushed down all of the way.
	Place MEMORY BOARDS ⑫ (2x) in Mother Board SIMM1-SIMM2 SLOTS. The memory must be put in at 45° then straightened to 90°. Make sure clips close around each board. Insert one farthest from shield first (SIMM2).
	Mount MICROPROCESSOR ⑬ to the Mother Board. Lift arm, place chip, lower and lock arm.
	<b>ORIENTATION:</b> The corner with the white dot must be positioned over the corner of the socket that is free of pins.
	Place a pencil eraser sized drop of THERMAL GREASE ⑭ on TOP of the microprocessor.
	Mount MICROPROCESSOR FAN ⑮ over the microprocessor with ledge in fan lined up over break between the socket and the microprocessor on the Mother Board. Center fan over the microprocessor. Tighten down with attached hardware.







REF #	PART	PART NBR	CREV	QTY
①	OEM PCB VIDEO 64 BIT	480-005-00	A1	1
②	SEM B 6x3/8 PHP BLKZC	701-001-00		3
③	OEM MIDI CARD - D8	480-025-00	A1	1
④	OEM ETHERNET CARD	480-026-00	A1	1
⑤	RIB 28GA 26C DSUB 7.75"	040-282-00		1
⑥	WASHER SPLITLOCK NO. 4	710-008-00		4
⑦	STDF 4-40x.25 JACKSCREW	706-017-00		4
⑧	RIB 28GA 20C 7.5M DSUB	040-276-00		1
⑨	SA DC PWR SPLY D8	080-124-00		1
⑩	SEMS 6-32x1/4 PHP BLKZC	700-028-00		8
⑪	FAB PLATE CVR VOLT SW	550-390-00		1
⑫	PCB ASSY POWER DIST D8 PWR	055-201-00-01	A1	1
⑬	FUSE SB 2.5A 5x20 250V UL	510-029-00		1
⑭	FUSE SB 1A 5x20MM 250V UL	510-001-00		1
⑮	FUSE SB 3.15A 5x20MM 250V UL	510-026-00		1
⑯	LBL FUSE 1.0/.5A 250V	840-171-00		1
⑰	SA PWR SW W/CBLS - D8	080-108-00	A1	1

SEQ.	TASK
a	Place the VIDEO CARD ① into the PCI1 slot (first long slot from the memory) on the mother board. Screw plate into top of CARD RACK using ② (1x)
b	Configure JUMPERS on MIDI CARD ③. Positions P and 10 should both be on (both jumper pins covered).
c	Place MIDI CARD into Mother Board position SL1/SL5. Screw plate into top of card rack using ② (1x).
d	Place ETHERNET CARD ④ into Mother Board position SL3/SL7. Screw plate into top of CARD RACK using ② (1x).
e	Mount Parallel Port Cable ⑤ to Card Rack using Washers ⑥ (2x) and Nuts ⑦ (2x). TIGHTEN BY HAND. Plug into Mother Board Parallel Port PRN1. PIN 1 must be toward the CARD RACK. <b>Mount in hole farthest from Shield</b>
f	Mount Internal Data Cable ⑧ to Card Rack using Washers ⑥ (2x) and Nuts ⑦ (2x). TIGHTEN BY HAND. Plug into Mother Board. Cable with PIN 1 (toward bottom) plugs into COM1 on Mother Board with PIN 1 toward the Card Rack. Second half of the cable plugs to COM 2 on the Mother Board with PIN 1 toward CARD RACK.

SEQ. TASK

g Remove Power Switch from Computer Power Supply ⑨ . Shake PWR SPPLY and listen for loose parts

**h** Mount Computer Power Supply to Rear of Chassis using Screws⑩ (4x). MAKE SURE SWITCH IS ON 115V OPTION

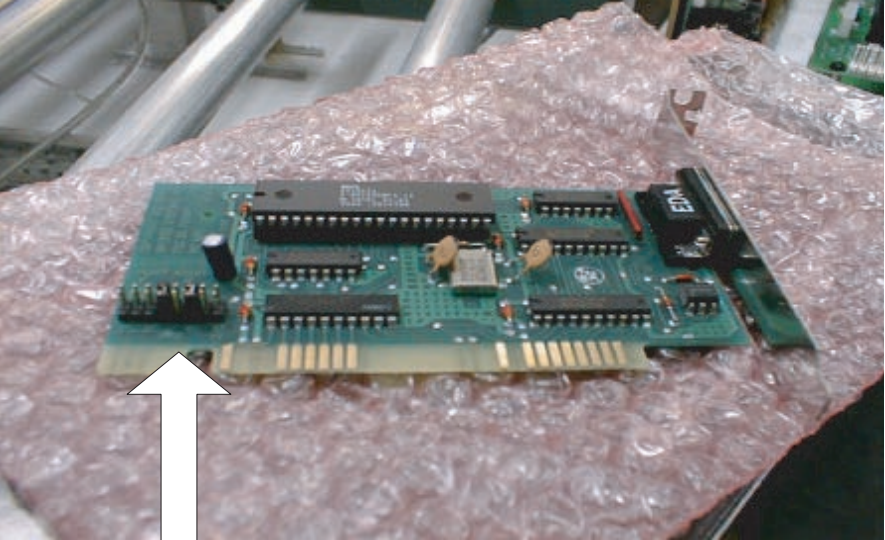
**i** Attach Power Switch Cover Plate ⑪to REAR of Comp. Power Supply using supplied hardware

**j** Place proper fuses in Dist. Board ⑫. Position F1 ⑬. Position F2 ⑭. Position F3 ⑮and place labels on board. Place Label ⑯ in pos. F2 over Silkscreen

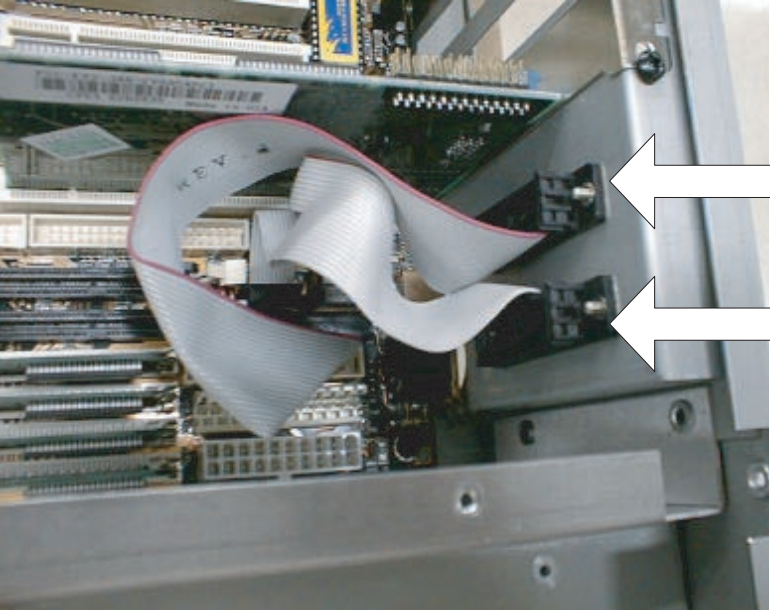
**k** Mount Pwr Dist Board to Bottom of Chassis using Screws ⑩ (4x) with E1 toward computer power supply.

l Slide Power Switch Assy ⑰ Wires through cutout in chassis. Push Power Switch in until it snaps on both TOP and BOTTOM. LED MUST BE TOWARD BOTTOM of unit if switch is grey, and towards TOP of unit if switch is black.

m Connect cables from Power Switch to the Power Dist. Board. BLUE to Pos. J11, BROWN to Pos. J4, White to Pos. J12, and BLACK to Pos. J3.



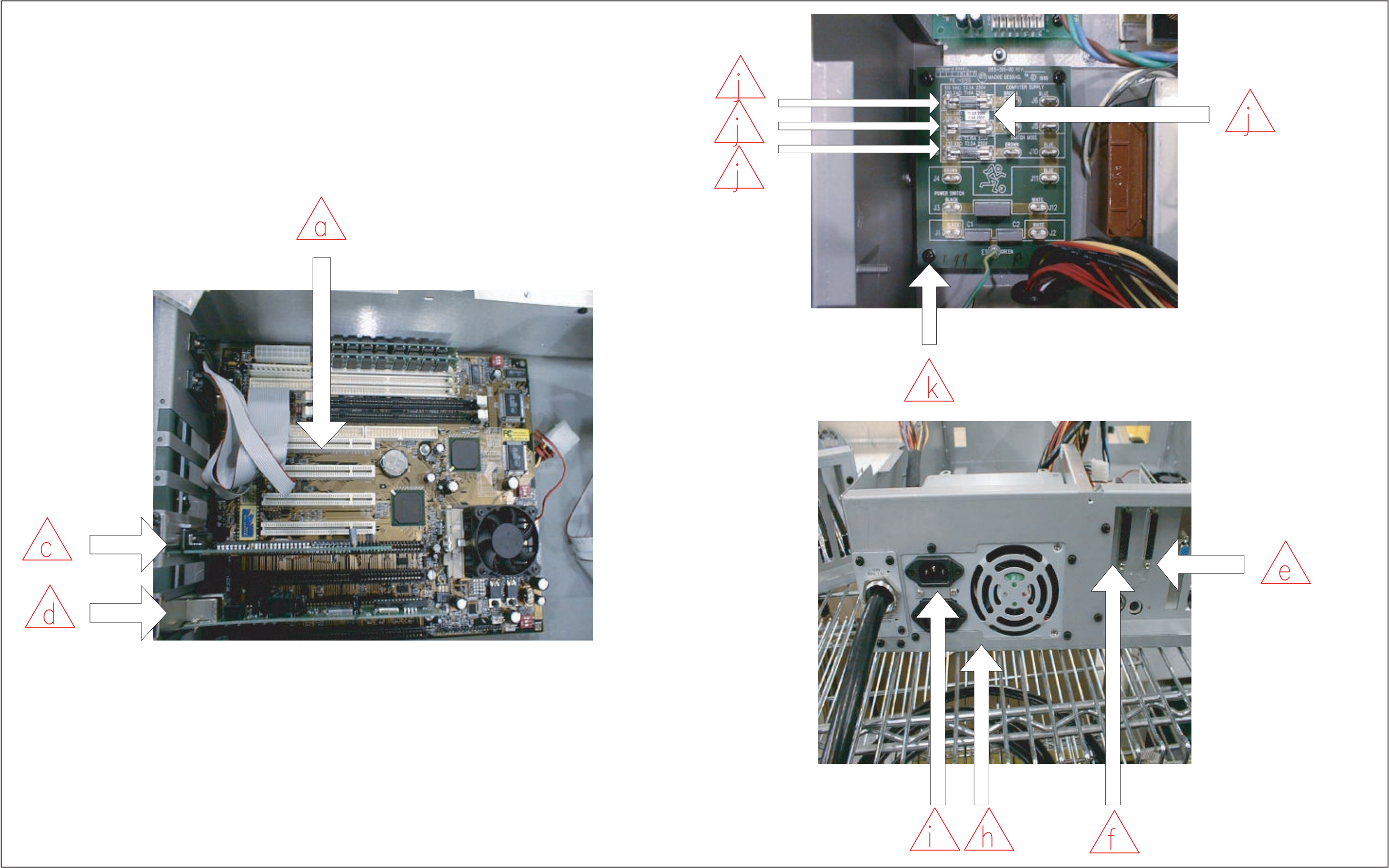
**b**



**e**

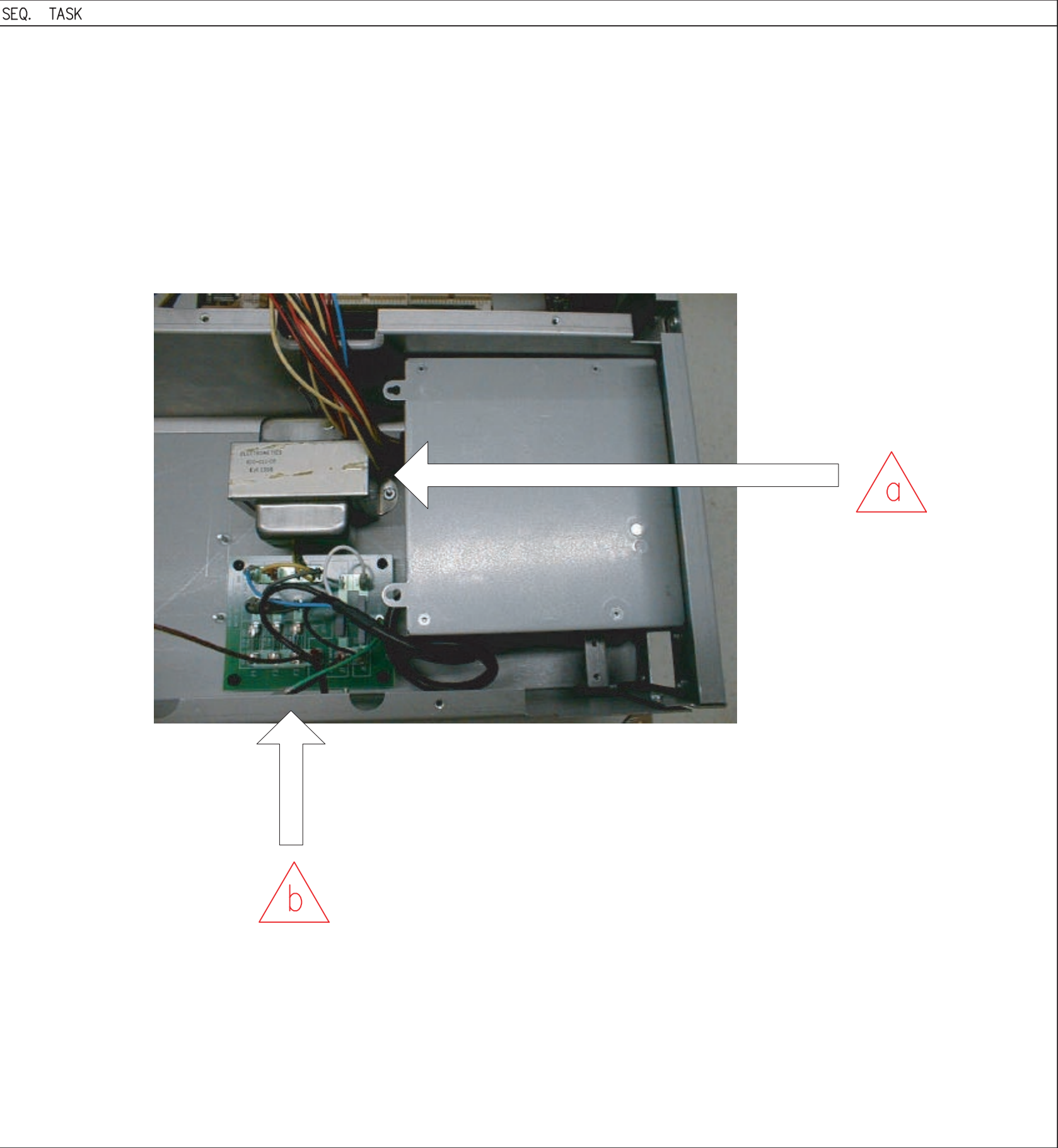
**f**



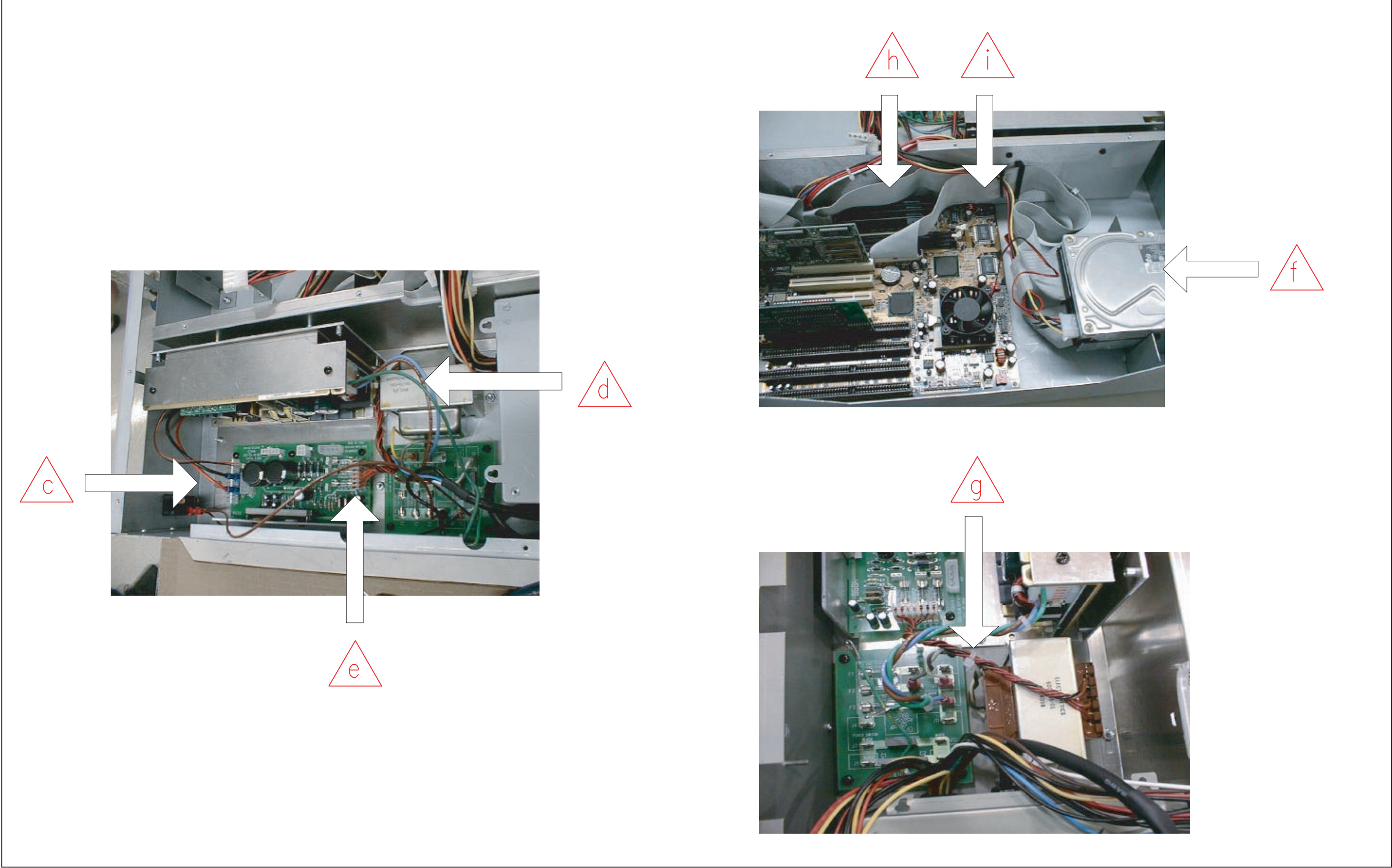


REF #	PART	PART NBR	CREV	QTY
①	SEMS 6-32x1/4 PHP BLKZC	700-028-00		2
②	SA XFMR 120V CE D8	080-107-00	A1	1
③	KEPNUT 6-32	705-001-00		10
④	SA LINEAR SUPPLY - D8	080-036-00	A1	1
⑤	SA HARD DRIVE/FLOPPY DR - D8	080-109-00	B1	1
⑥	RIB 28GA 34C 23' PLZD	040-139-00		1
⑦	RIB 28GA 40C 19' PLZD	040-140-00		1
⑧	TYWRAP 3-1/4L	740-001-00		1

- SEQ. TASK
- a** Mount Transformer Assy ② to Bottom of Chassis on STUDS using NUTS ③ (2x)  
The Primary Leads (discrete wires) must be positioned toward the Power Dist. Board.
  - b** Twist primary wires of xfmr and plug them into the Pwr Dist. Board. YELLOW to Pos. J8, GREY to Pos. J7.
  - c** Mount Linear Pwr Supply Sub Assy ④ to the Chassis Bottom and Shield using nuts ③ (4x) and Screws ① (2x).
  - d** Plug BLU/BRN Cables from 5V PWR SPLY to positions J9 & J10 of Pwr Dist Board.
  - e** Twist Secondary Leads (with Panduit Connector) of transformer and plug to position J1 on the Linear Pwr Sply
  - f** Mount Floppy and Hard Drive Sub Assy ⑤ to the Chassis Bottom using ③ (4x).  
Make sure the assembly is pushed all the way forward before tightening!
  - g** Tyrap xfmr secondary leads to primary leads using ⑧ (1x) about 2" from the 5V switching supply so that the secondary leads CAN NOT touch the Power Dist. Board.
  - h** Plug NON-TWISTED end of Floppy Drive Cable ⑥ to Floppy Control Port (FDC1) on the mother board. ORIENTATION: PIN 1 must position toward REAR of Chassis. Plug twisted end to floppy drive with PIN 1 TOWARD the Center of the Floppy Drive.
  - i** Plug the Hard Drive Cable ⑦ to position IDE1 on the Mother Board with PIN 1 toward the rear of the chassis. Plug the other end to the Hard Drive with PIN 1 toward the Center of the Hard Drive.







REF #	PART	PART NBR	CREV	QTY
①	CBL DC PWR BRDShLD D8 PWR	040-294-00		1
②	SEMS 6-32x1/4 PHP BLKZC	700-028-00		4
③	KEPNUT 6-32	705-001-00		2
④	BRKT BLANK PORT	480-024-00		4
⑤	SM B 6x3/8 PHP BLKZC	701-001-00		4
⑥	LBL BLANK .75x.25	840-169-00		1
⑦	LBL 120V D8	840-182-00		1
⑧	TYWRAP 3-1/4I	740-001-00		2

- SEQ. TASK
- ⚠️ Plug the Power Connection Cables with SOLID WHITE CONNECTORS (P8&P9) from the Computer Power Supply to position J2 on the Mother Board.  
**ORIENTATION: ORANGE WIRE TOWARD REAR AND ALL BLACK WIRES IN MIDDLE**  
**NOTE: THE MOTHER BOARD WILL BE RUINED IF THIS IS WRONG**
  - ⚠️ Gather one wire bundle from Computer Power Supply that has 1 LARGE and 1 SMALL WHITE CONNECTOR. Plug LARGE CONNECTOR to Microprocessor Fan. Plug SMALL CONNECTOR to LEFT REAR of FLOPPY DRIVE with RED LEAD toward center.
  - ⚠️ Plug remaining cable on Microprocessor Fan to RIGHT REAR of Hard Drive with YELLOW LEAD toward Disk Drive Bracket.
  - ⚠️ Gather Wire Bundle from Computer Power Supply that has 2 LARGE CONNECTORS. Cut off the end connector as CLOSE AS POSSIBLE to the first connector and plug to Pos. J200 of the Linear Power Supply.
  - e Feed all stripped and terminated DC Pwr Cables ① Wires through hole by Computer Power Supply on REAR of Chassis
  - ⚠️ Screw down plate surrounding DC Power Cable using ② (4x). Place Label ⑥ over Top Silkscreen. Place label ⑦ over Bottom silkscreen on plate.
  - g Attach Power Cable (BLACK CABLE) from Computer Pwr Supply to Power Dist. Board. Plug WHITE LEAD to Pos. J2, BLACK to Pos. J1, BLUE to Pos. J6, BROWN to Pos. J5
  - ⚠️ Attach remaining black wire from Computer Power Supply to Chassis Grounding Post on side and tighten using ③ (1x)
  - ⚠️ Attach PURPLE and YELLOW wires from the DC POWER CABLE to position J2 on the LINEAR POWER SUPPLY BOARD.
  - ⚠️ Attach BLUE/RED/BROWN wires from the DC POWER CABLE to position J3 on the LINEAR POWER SUPPLY BOARD

SEQ. TASK

- ⚠️ Attach ORANGE and BLACK wires from the DC POWER CABLE to pos. J2 on the Linear Power Supply Board.
- ⚠️ Tyrap DC Power Cable at FRONT and BACK of the Heatsink Bracket using ⑧ (2x), so that it CAN NOT touch the Power Dist. Board.
- ⚠️ Attach GREEN WIRE from 5V Supply to GROUNDING STUD and then place the green wire from the Pwr Dist Board over the TOP of it and attach Nut ③.
- ⚠️ Mount BLANK PORT BRACKETS ④ (4x) over BLANK SLOTS on CARD RACK using screws ⑤ (4x). Make sure all slots are fully covered and plates are touching edges.

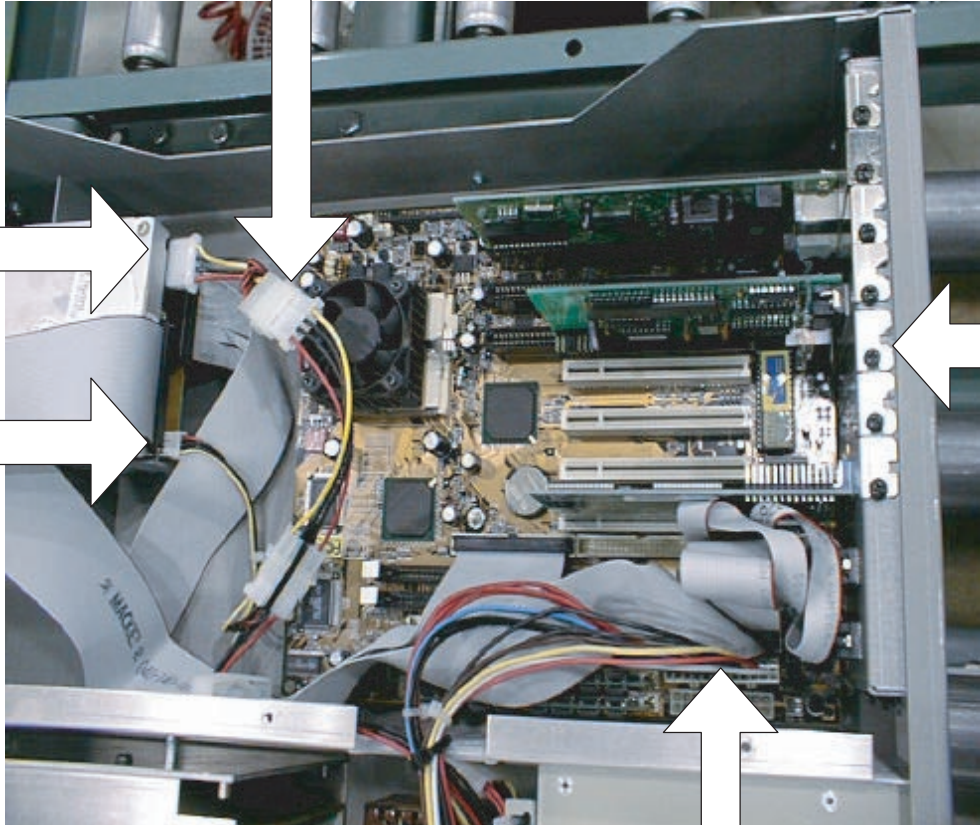
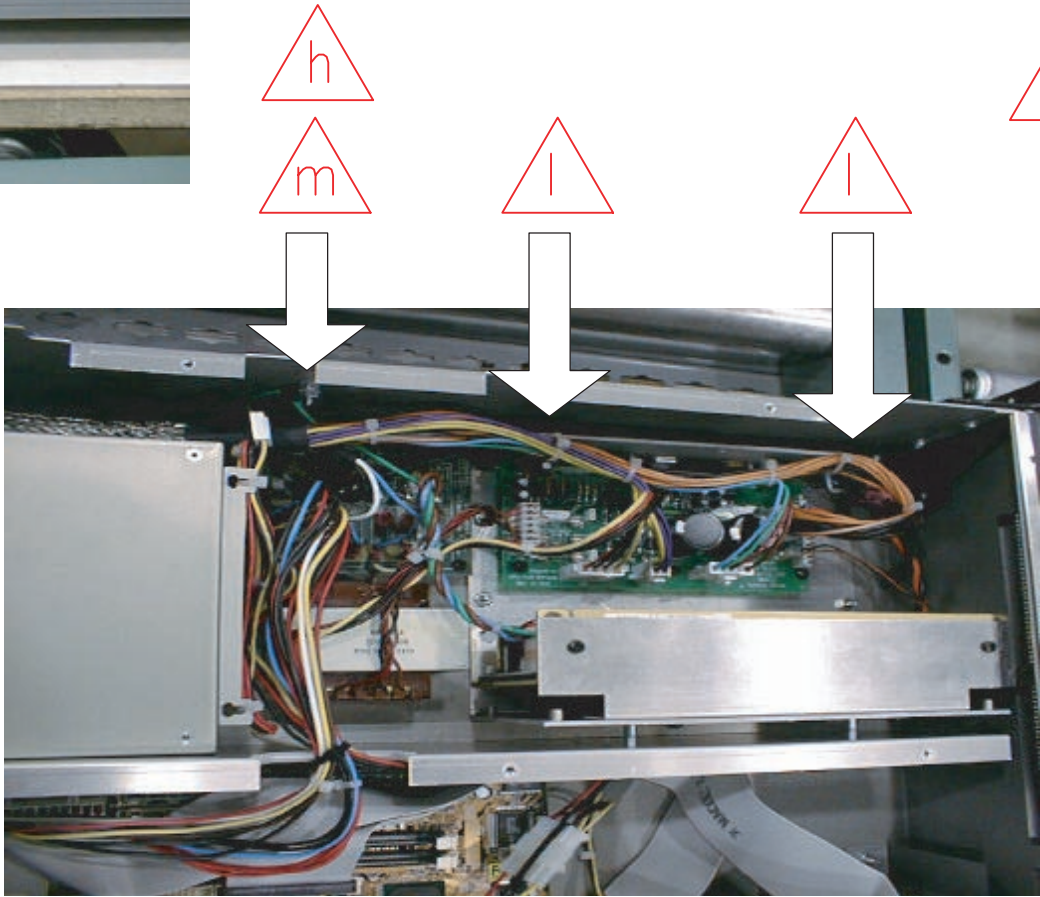
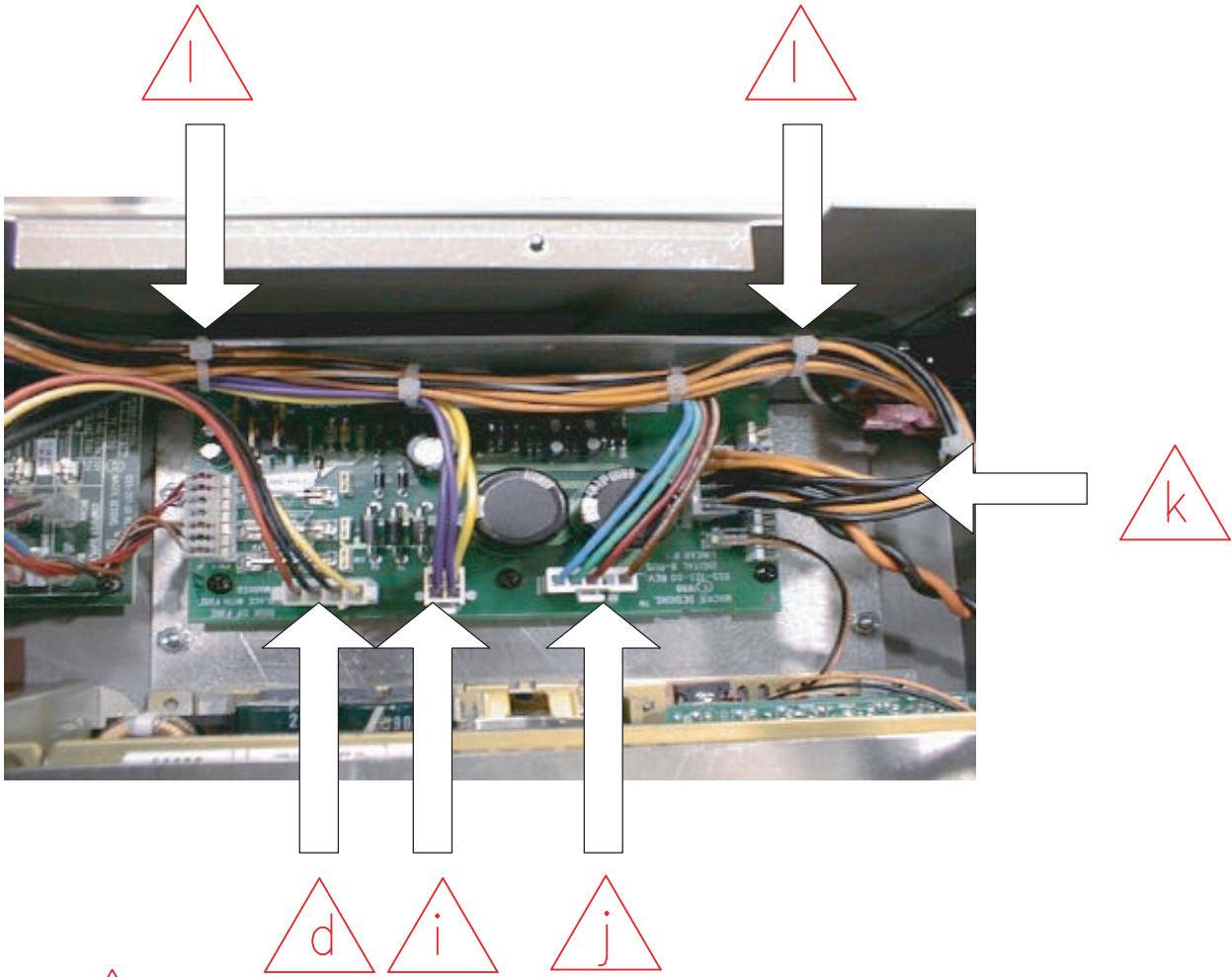
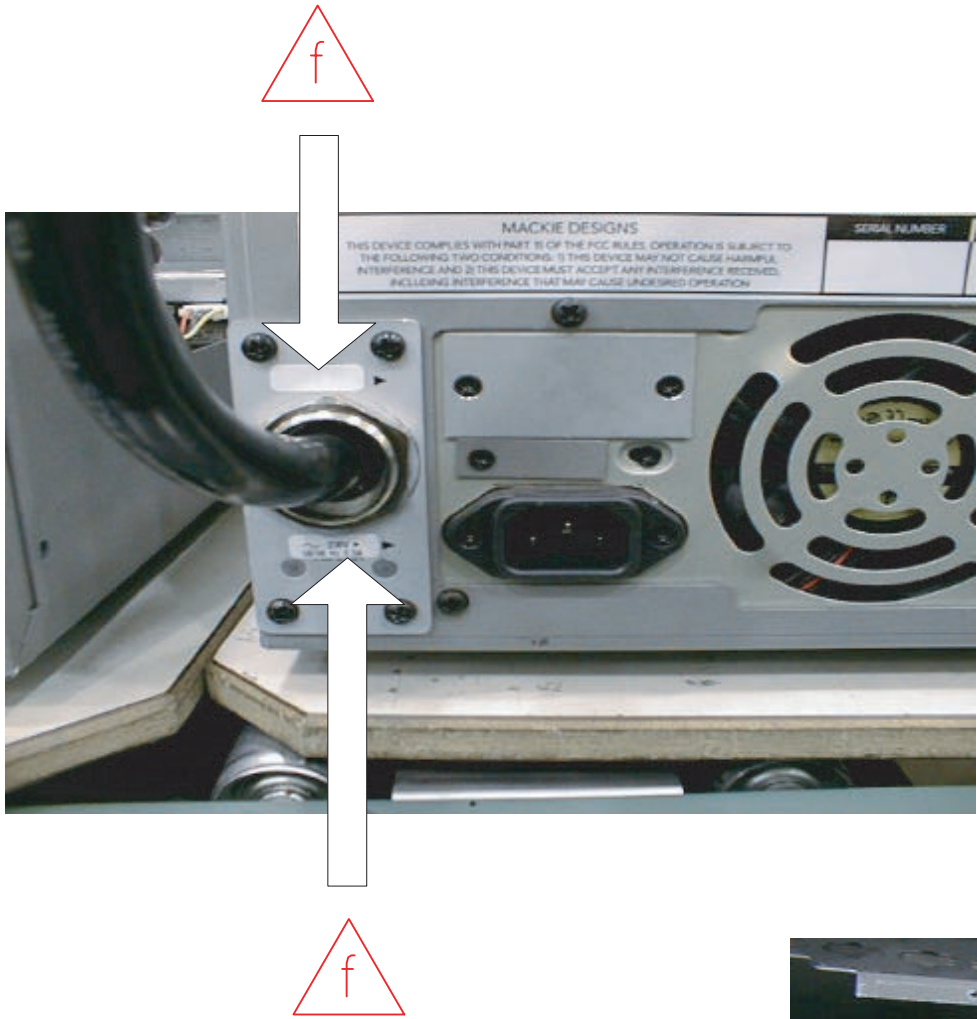


Diagram illustrating the internal components and wiring connections of the system, showing the power supply, motherboard, and various cables. Arrows indicate the location of components and the direction of cable connections.



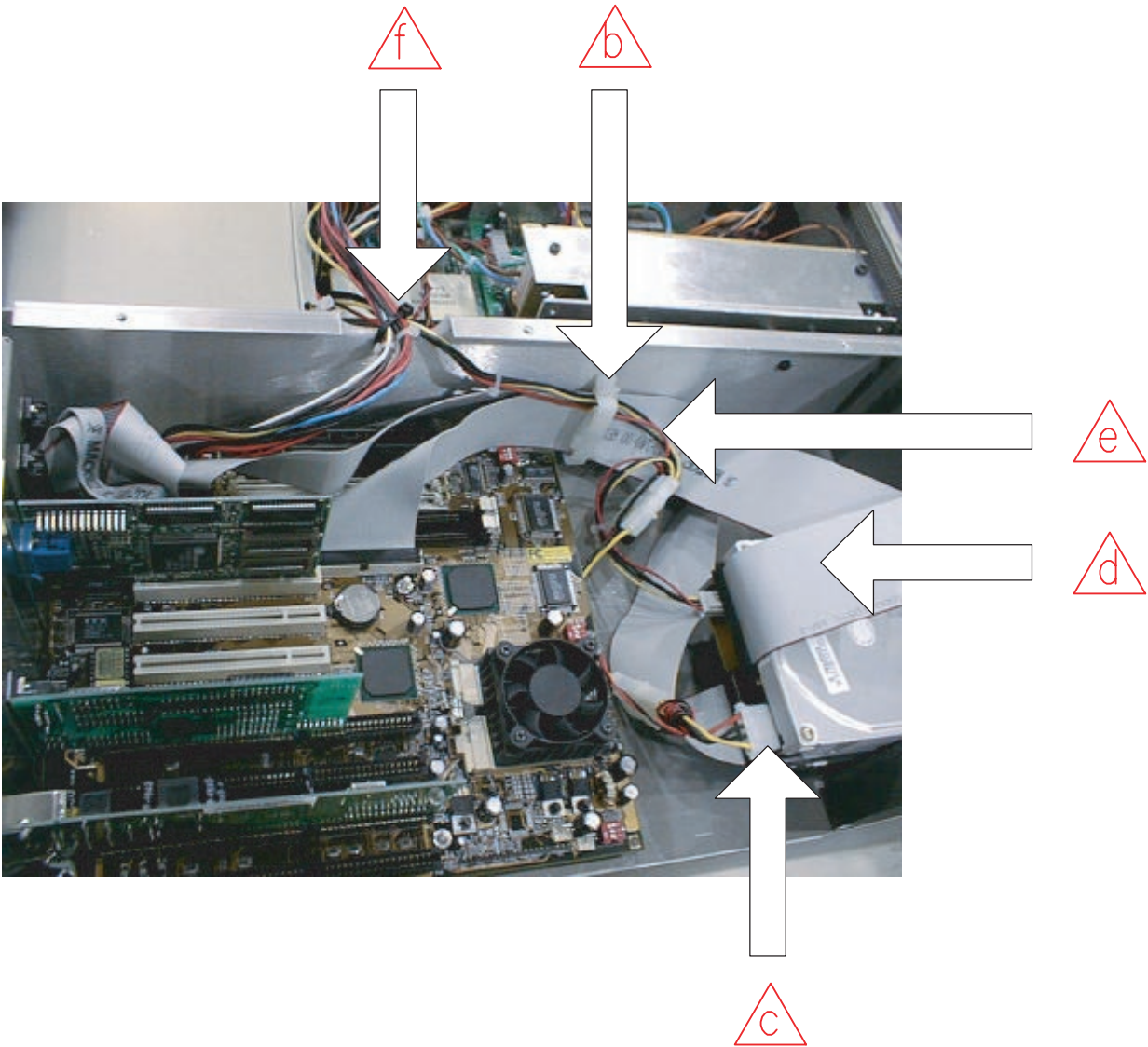


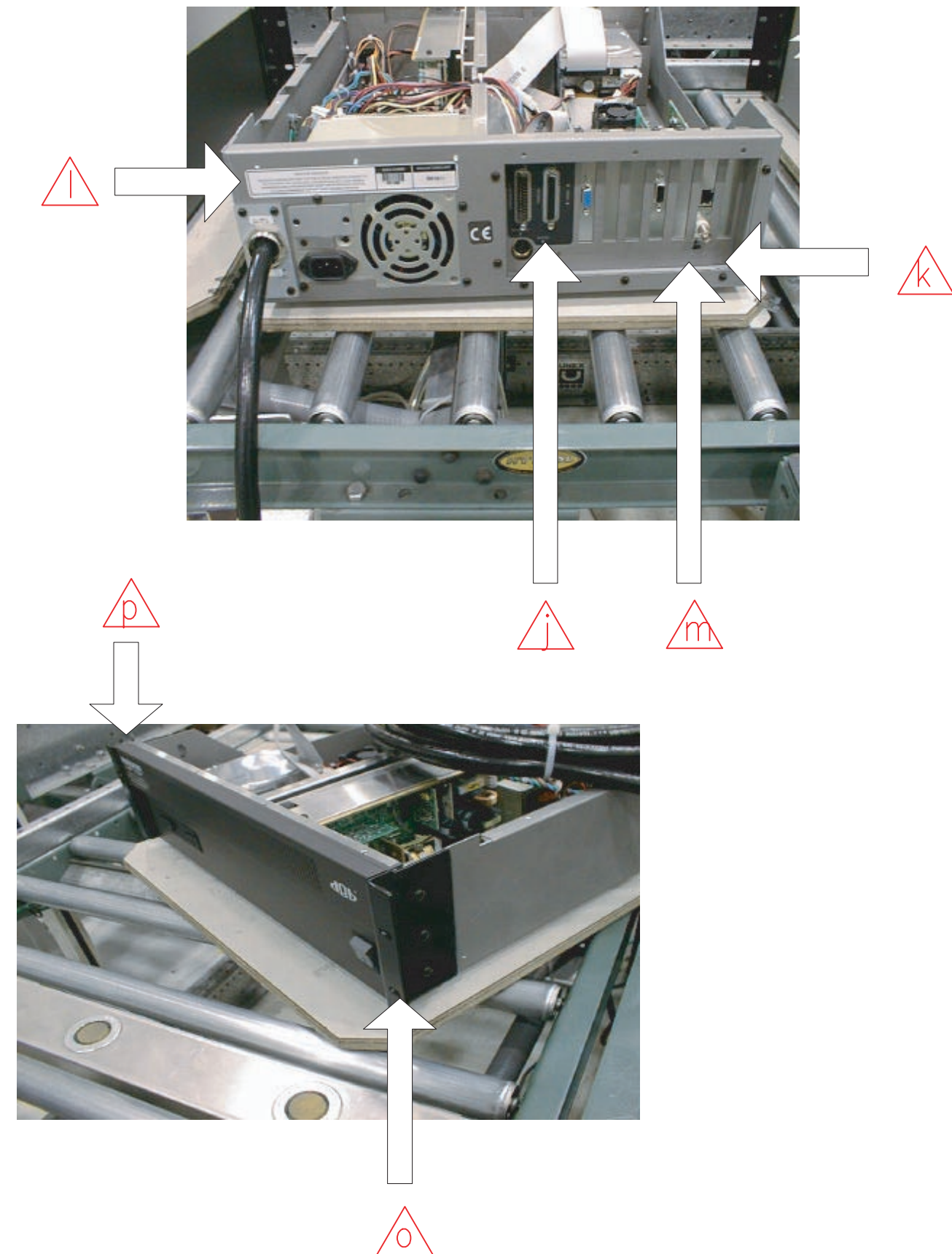
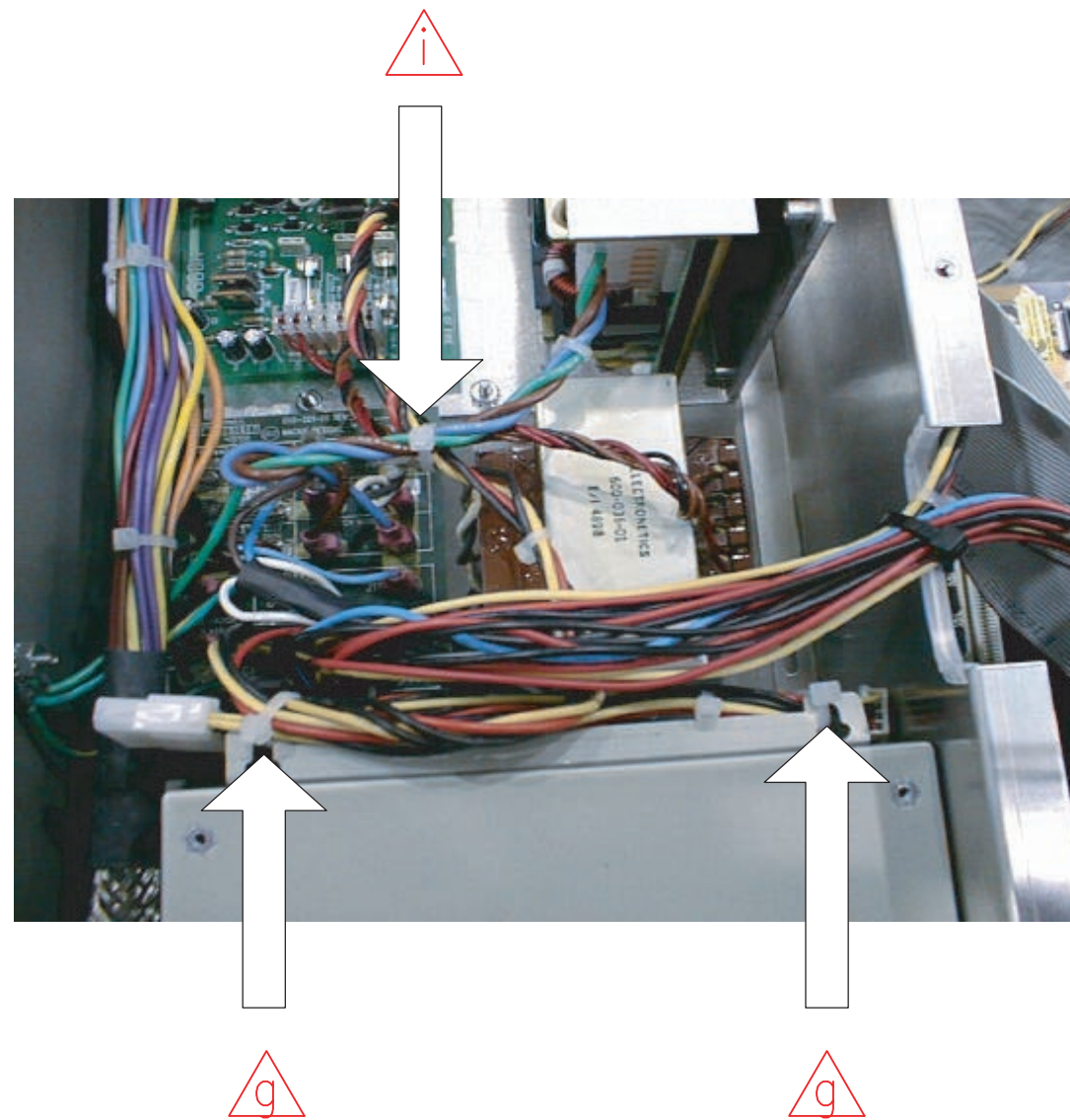


REV #	PART	PART NBR	CREV	QTY
①	FLT CBL CLMP NYL LOCK 40C	740-023-00		1
②	TYWRAP 8" BLACK	740-003-00		1
③	TYWRAP 3-1/4L	740-001-00		3
④	LABL KEYBOARD/MOUSE D8	840-177-00		1
⑤	LBL PATENT/TRADEMARK D8	840-210-00		1
⑥	LBL SN/DATECODE/FCC	840-208-00		1
⑦	LBL ESD D8	840-183-00		1
⑧	SCR FNT PANEL D8 PWR SPLY	550-385-00		1
⑨	SIDE D8 PWR SPLY	550-356-00		2
⑩	SEMS 10-32x3/8 PHP BLKZC	700-045-04		6

SEQ.	TASK
a	Tuck power cabling (large black wire) from the Computer Power Supply next to the Computer Power Supply
b	Attach CABLE CLAMP ① to SHIELD on MOTHER BOARD SIDE. Should be placed with the open end toward the top.
c	Fold FLOPPY DRIVE CABLE so that it doesn't cross over the MOTHER BOARD more than necessary and route it through the clamp
d	Fold HARD DRIVE CABLE so that it doesn't cross over the MOTHER BOARD more than necessary and route it through the clamp
e	Route cables from the COMPUTER POWER SUPPLY that plug to the FAN, HARD DRIVE and FLOPPY DRIVE through the CLAMP and close the clamp.
f	Gather wires from Computer Power Supply that connect to the Mother Board SIDE of the unit and TYWRAP them to the shield using ② (1x). <b>LEAVE VERY LITTLE SLACK IN WIRES ON MOTHER BOARD SIDE OF THE UNIT</b>
g	Gather the 2 unattached cable assemblies from the Computer Power Supply. Fold them once and TYWRAP them to the MOUNTS on the Comp. Pwr Supply using ③ (2x)
h	Push cabling from Power Switch against Chassis Bottom in between Heatsink Bracket and side of chassis
i	Gather all transformer wiring, Blue/Brown/Green 5V wiring, and DC Power Supply wiring going to J200 on the linear power supply board and tyrap them together 2" from the 5V Supply using ③ (1x).
	Place Keyboard/Mouse Label ④ on REAR of Card Rack

SEQ.	TASK
k	Place Patent/Trademark Label ⑤ on REAR of Card Rack
l	Place SN/Datecode/FCC Label ⑥ on REAR of Card Rack on horizontal surface at bottom of card rack.
m	Place ESD label ⑦ on rear of card rack under BNC connector on ethernet card.
n	Hold FRONT PANEL ⑧ up to front of chassis
o	Mount the RIGHT SIDE PANEL ⑨ to the FRONT of the right side of the unit over the ⑩
p	Mount the LEFT SIDE PANEL ⑨ to the FRONT of the LEFT SIDE of the unit over ⑩







REV #	PART	PART NBR	CREV	QTY
①	PNT TOP D8 PWR SUPPLY	550-452-00		1
②	SEMS 6-32x3/8 PHP BLKZC	700-028-02		8
③	BOX POWER SUPPLY	800-085-00		1
④	BAG POLY 20x7x30 4 MIL	790-011-00		1
⑤	FOAM ENDS POWER SUPPLY	810-074-00		2
⑥	SEMS 6-32x1/4 PHP BLKZC	700-028-00		15
⑦	COMPUTER WARNING SHEET	091-161-00		1
⑧	INST TRAY POWER CABLE D8	810-081-00		1
⑨	BAG POLY 20x30 4 MIL	790-001-00		1
⑩	FAB CAGE COVER D8	550-384-00		1
⑪	LABEL "NOT SERVICEABLE"	840-209-00		1
⑫	LABEL CE WHITE	840-204-00		1
⑬	DUST COVER 25P DSUB FEM	760-128-00		1
⑭	DUST COVER 25P DSUB MALE	760-129-00		1
⑮	DUST COVER 15HD/9P DSUB F	760-130-00		2
⑯	REAL TIME OS 2.0 LABEL	091-200-00		1

SEQ.    TASK

Complete a visual inspection of the unit. Verify hardware and cabling. Verify there is no damage to the unit.

Test the unit following the TEST PROCEDURE ①

Complete a 15 minute burn-in of the unit while running MOTHER BOARD TEST

Test the unit a second time.

Plug the REMOTE CPU into the sample unit on the line and verify that there is communication between the two units by moving faders on console and watching to make sure computer screen updates. Then move faders on screen using mouse and make sure console updates.

VISUALLY INSPECT UNIT FOR CABLING, HARDWARE AND DAMAGE!

△ Mount the CAGE COVER ⑩ to the TOP of the unit using ⑥ (5x)

Mount over the POWER PORTION of the unit

△ Clean CENTER AREA OF CAGE COVER with alcohol

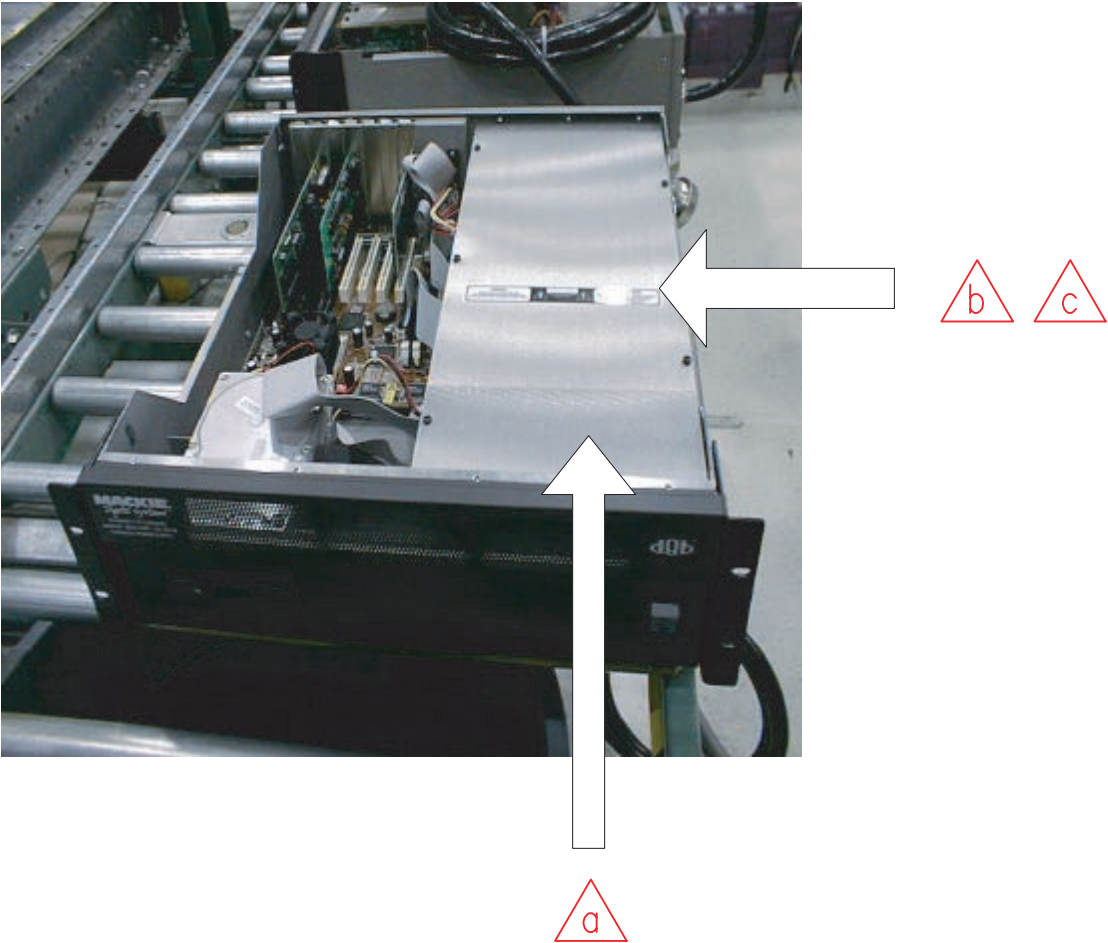
△ Place "NO USER SERVICEABLE PARTS" LABEL ⑪ on CENTER of COVER facing the FRONT of the unit.

△ Slide TOP PANEL ① over unit and mount it using SCREWS ② (8x) on SIDES and SCREWS ⑥ (4x) on TOP and ⑥ (6x) on REAR.

Place Dust Cover ⑬ over the Parallel Port Connection

Place Dust Cover ⑭ over the Data Cable Connection

Place Dust Covers ⑮ (2x) over the Video Port Connention and the Midi Connection

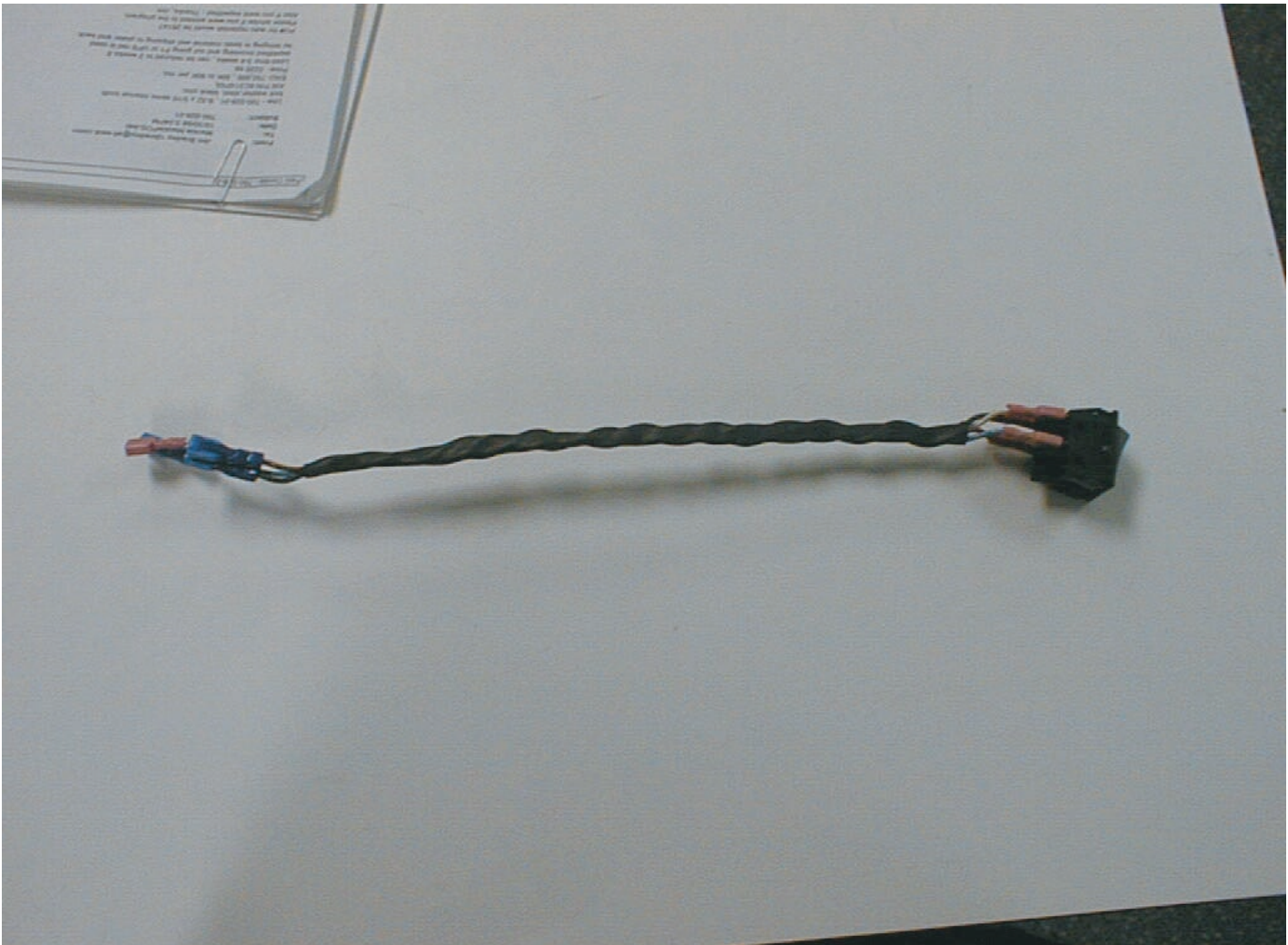


REF #	PART	PART NBR	CREV	QTY
①	SW DPST PWR RCKR W/LED	500-040-00		1
②	DIS 18GA 1010 WHT 14 QDx2	040-287-00		1
③	DIS 18GA 1010 BLK 14 QDc2	040-286-00		1
④	DIS 18GA 1010 BLU 14 QDx2	040-248-00		1
⑤	DIS 18GA 1010 BRN 14 QDx2	040-288-00		1
⑥	TYWRAP 3-1/4L	740-001-00		2
⑦	HEATSHRINK TUBE 2:1 .501D	740-011-00		2

SEQ. TASK

- a Hold Pwr Switch ① with LED toward bottom and terminals facing you
- b Connect Cable ② to bottom left of switch
- c Connect Cable ③ to bottom right of switch
- d Connect Cable ④ to top left of switch
- e Connect Cable ⑤ to top right of switch
- f Tywrap ⑥ 1/2" from terminals on Power Switch end
- g TWIST all 4 wires together approx. one full rotation per 1" (10 TWISTS)
- h Tywrap ⑥ 2" from terminals on open end
- i Cover ENTIRE TWISTED AREA of wires with Heatshrink ⑦ and shrink it

BACK OF SWITCH	
BLANK	BLANK
BLU	BRN
WHT	BLK





POWER SUPPLY SUB ASSEMBLY				
REF #	PART	PART NBR	CREV	QTY
①	SW POWER SPLY ASTEC 5V 22A	480-027-00		1
②	FAB BRKT HTSNK LINEAR SUPPLY	550-418-00		1
③	TF 6-32x3/8 FL 100 DG BLK	700-086-00		2
④	FAB BTKT HTSNK ASTEC D8PW	550-401-00		1
⑤	SEMS 6-32x1/4 PHP BLZNC	700-028-00		7
⑥	INSL SILPAD .007 SELF ADHESIVE	410-002-00		2
⑦	PCB ASSY LINEAR SPLY - D8	055-123-00-01	A1	1
⑧	HTSK BRKT POWER DIST - 40.8	550-198-00		1
⑨	SEMS 6-32x1/2 PHP BLKZC	700-028-03		2
⑩	DIS 18GA BRN/BLU .156 7.5	040-284-00		1
⑪	DIS 26GA 2C 2MM/.100 6.5	040-285-00		1
⑫	ADHESIVE RTV 162	730-026-00		A/R
⑬	SA TWISTED PAIR LINEAR SP	080-110-00		1

- SEQ. TASK
- Mount 5V Switching Power Supply ① to the Heatsink Bracket ② using Screws ③(2x) SCREW FROM BOTTOM.

Mount ASTEC BRACKET ④ to top and back of 5V supply using ⑤ (4x).

Mount SIL PADS ⑥ to the back of regulators on Linear Power Supply Board ⑦.

NOTE: WHOLE SURFACE MUST BE COVERED!

Place the LINEAR POWER SUPPLY BOARD on the Larger Heatsink Bracket and tighten using SCREWS ⑤ (3x)

Place Small Heatsink Bracket ⑧ behind regulators on Linear Power Supply Board and tighten using Screws ⑨(2x)

Connect Cable ⑩ to position SK4 on 5V Power Supply and leave hanging

Connect Cable ⑪ to position SK1 on 5V Power Supply with the black lead toward the the top of the bracket, TWIST the wire a number of times, then plug to position J4 on the Linear Supply board.

Then RTV ⑫ the Connector where it mates with the 5V supply.

Connect Cable ⑬ (BLK) to SK3 PIN 1 of the 5V supply then to position J5 on the linear supply board.

Connect Cable ⑬ (ORG) to SK3 PIN 2 of the 5V supply then to position J6 on the linear supply board.

