

Parts & Disassembly

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5.1 Ordering Parts

When ordering replacement parts, quote the part number of the item required. Also provide the projector model number, serial number, and date of manufacture which is available from the licence label located next to the line cord input at the front of the projector.

Parts may be ordered from one of the following locations:

Electrohome Limited 809 Wellington Street North Kitchener, Ontario Canada N2G 4J6 Telephone (519) 744-7111 U.S. customers call toll-free 1-800-265-2171 Fax: (519) 749-3136	Electrohome USA (1989), Inc. 10282 Sixth Street Rancho Cucamonga California 91730-5835 Telephone: (909) 466-3816 Fax: (909) 466-3824 700 Ensminger Road, Suite 112 Tonawanda, N.Y. 14150 Telephone: (716) 874-3630 Fax: (716) 874-4309	Electrohome Europe Ltd. 46 London Road Reading Berkshire RG1 5AP England Telephone 44 734 756540 Fax 44 734 756541
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5.2 Modules & Parts

The following *Marquee 8000* (38-P13082-93) service replacement modules and parts are available:

Note: For many of the modules, the service replacement part number is different than the original factory part number.

Modules

Module	Electrohome #
Control Module (less Deflection Processor Board)	03-270306-03P
Convergence (Amplifier) Module	03-270318-01P
Deflection Processor Board	03-250306-03P
▲ Focus Module	03-270304-03P

Modules (continued)

Module	Electrohome #
▲ Horizontal Deflection Module	03-270303-04P
IR Keypad Assembly	03-IRKEY1-01P
IR Sensor Assembly	03-IRSENS-01P
Keypad Assembly - Fixed	03-FIXKEY-01P
Backplane PCB Assembly - Mother	03-260315-02P
▲ Power Supply - High Voltage	03-000234-01P
▲ Power Supply - Low Voltage	03-000229-01P
Vertical Deflection Module	03-270302-03P
▲ Video Neck Board	03-270313-04P
Video Input Module	03-270305-05P
Mother PCB Assembly - Upper	03-260314-02P

CRT/Lens Assemblies

Assembly	Electrohome #
▲ CRT Bulkhead Assembly - Blue	03-007062-02P
▲ CRT Bulkhead Assembly - Red	03-007062-01P
▲ CRT Bulkhead Assembly - Green	03-007062-03P
Lens Assembly (HD8)	03-000232-01P

Service Kits

Kit	Electrohome #
Extender Card Kit	03-EXTEND-01P

Tools

Tool	Electrohome #
Driver - 5/16" Ball Nose	33-000812-02P
Wrench - 3/16" Allen	33-000723-04P
Wrench - 7/16"	33-000919-01P

Hardware Parts

Part	Electrohome #
Air Plenum Base	35-005150-01P
▲ Anode Lead 50KV (part of CRT Bulkhead Assembly)	34-001281-01P
Baffle - Foam (base side on flange)	39-001577-01P
Base - Right Side (as view from rear of projector)	35-005161-02P
Base - Bottom Pan	35-005160-01P
Base - Left Side (as view from rear of projector)	35-005161-01P
Bolt - 1/4-20x8" (4)	33-000910-03P
Brace - Front Support 8" (2)	35-005132-02P
Bracket - Rear Panel Support	53-101300-01P
Bracket - Keypad Mounting, Bottom	35-005184-01P
Bracket - Ball Stud (each case side)	35-005182-01P

Hardware Parts (continued)

Part	Electrohome #
Bracket - Vertical/Convergence PCB Support	35-005174-01P
Bracket - Remote Sensor	35-005183-01P
Bracket - VNB Enclosure (12)	35-005169-01P
Bracket - Top Cover Support Mounting (on top plate)	35-005135-01P
Bracket - Keypad Mounting, Top	35-005187-01P
Bushing - Spherical	35-004411-02P
Cable Tie (harnesses to left side air plenum)	33-000523-01P
Cable - Video Input Red	34-001275-01P
Cable - Video Input Green	34-001275-02P
Cable - Video Input Blue	34-001275-03P
Cable Tie (extractor for Focus Module)	33-000523-01P
Card Guide - 6 1/2" (in horizontal shield - front)	33-000873-09P
Card Guide - 6 1/2" (in focus shield - front)	33-000873-09P
Card Guide (in focus shield (rear)	33-000873-11P
Card Guide (in horizontal shield - rear)	33-000873-11P
Card Guide - 8	33-000873-08P
Clamp - Nylon, Cable (HVPS harness to left front shield screw)	33-000998-01P
Clamp - Nylon, Cable 1/2" (LVPS harness to right front mother PCB screw)	33-000998-02P
Clamp Plate - Video Neck Board (12)	35-005168-01P
Clip - Spring (IR sensor)	33-000995-01P
Clip - Hold Down (horizontal shield)	35-005217-01P
Clip - Wire (ACON harness)	33-000809-01P
Clip - Cable (under rear Mother PCB screws & under top shield bottom left screw)	33-000999-01P
▲ Clip - Wire (X-ray shields)	33-000809-01P
Clip - Hold Down (focus shield)	35-005217-01P
Closure - Round Vinyl (CRTs) Screw	33-000922-01P
Cover - Video Neck Board Enclosure	35-005167-01P
Cover - Focus Module	35-005173-02P
Cover - Front Top	53-101307-02P
Cover - Horizontal Deflection Module	35-005171-02P
Cover - Lower Front Bezel	53-101312-01P
Cover - Rear Top	53-101308-02P
Enclosure - Video Neck Board (on CRT/Bulkhead Assemblies) (3)	35-005166-01P
Extrusion	35-005164-01P
Fan - 24V DC 4 11/16 sq (3)	25-000117-01P
Foot - Rear 3/8-16 x 1 1/2" (2)	33-000987-01P
Foot - Front 3/8-16 x 3 1/2" (2)	33-000987-02P
Gasket - Foam Plenum Centre (over centre hole on air plenum)	39-001549-02P
Gasket - Foam Plenum (on air plenum ends) (2)	39-001549-01P
Gasket - Foam PCB Shield (on top centre cover) (2)	39-001550-01P
Grommet - CRT Neck (on Bulkhead Assemblies)	33-000989-01P
Ground Wire DAG (on Bulkhead Assemblies) (6)	34-001285-01P

Hardware Parts (continued)

Part	Electrohome #
Harness - LVPS to Mother PCB	34-001268-01P
Harness - Mother to ACON	34-001260-02P
Harness - Fan	34-001289-01P
Harness - Video Power (3)	34-001269-01P
Header - Locking (fan board)	34-000813-02P
Insulator - Mother PCB	39-001553-02P
Label - Front Panel	54-019004-01P
Label - Back Panel Product ID, Marquee 8000	54-019002-01P
Lockwasher - #8 .381"/.370"	33-000025-01P
Magnet - Focus (on CRT/Bulkhead Assemblies)	21-000686-02P
Mount - Lens (3)	35-005125-01P
Mount - CRT (on CRT/Bulkhead Assemblies) (3)	35-005126-01P
Mounting Leg (between Control Board & trim panel)	35-004966-01P
Nut - Hex #10-32 Keps	33-000440-03P
Nut - Hex With Starwasher (ball stud brkt to case side)	33-000440-06P
Panel - Blank Switcher/Interface	53-101356-01P
Panel - Blank Trim (2)	53-101304-01P
Panel - Control Module	53-101302-02P
Panel - Front Trim	53-101305-01P
Panel - Side, Lower Left (as viewed from rear of projector)	53-101310-03P
Panel - Side, Lower Right (as viewed from rear of projector)	53-101310-04P
Panel - Side, Upper Left, plastic (as viewed from rear)	53-002001-01P
Panel - Side, Upper Right, plastic (as viewed from rear)	53-002001-02P
Panel - Upper Back	53-101309-02P
Pin - Locating	35-006010-01P
Plate - Cover	35-005136-02P
Plate - Top (lens mounts)	35-005127-01P
Plate - Bottom	35-005128-01P
Plate - Top Air PLENUM	35-005150-02P
Plate - Back Plane Support	35-005153-01P
Plate - Centre Support	35-005152-01P
Screen - Fibreglass (rear top cover)	39-001574-01P
Screw - TFT Ab Phillips Pan (on CRT/Bulkhead Assemblies) (CRT - neck board enclosures to X-ray shields)	31-710418-06P
Screw - #4-40x1/4" MC Ph Zinc (back plane mother to back plane support)	31-700418-04P
Screw - #4-40x5/16" MC Ph Zinc (CRT Neck Brd enclosure - clamps & mounting brkts)	31-700418-05P
Screw - #4-40x3/8" MC Ph Blk Ox (ball stud brkt to case side) (blank panel to rear interface slot) (rt angle brkt to control panel & board)	31-700414-06P
Screw - #4-40x1/2" MC Ph Blk Ox (power supply harness to centre support plate)	31-700414-08P
Screw - #4x1/4" Ph (Video Neck Board enclosure cover to enclosure)	31-710418-04P

Hardware Parts (continued)

Part	Electrohome #
Screw - #6-32x1/4" MC Ph Zinc (hold down clip on focus shield) (hold down clip on horizontal shield)	31-700618-04P
Screw - #6-32x5/16" MC Ph Zinc (ball studs)	31-700618-05P
Screw - #6-32 X 3/8" (vertical/convergence pcb's to vertical/convergence support channel) (vertical/convergence support channel to rear panel)	31-700618-06P
Screw - #6SM with #4 Flat Hd Ph (card supports to rear panel)	33-000984-01P
Screw - #6x1/2" Ab Ph Truss Stnl (each crt - top X-ray shield to bottom X-ray shield)	33-000865-31P
Screw - #6x1 1/4" Ph Pan Hd (fans to plenum)	31-900618-20P
Screw - #8-32x1/4" Ph Pan Hd (cover mounting brkt to 8" head)	31-700818-04P
Screw - #8-32x5/16" Pan Hd (in ACON mtg holes on front panel)	31-700816-05P
Screw - #8-32x3/8" Ph Pan Hd (inner metal shield to head) (remote sensor brkt) (upper rear case to rear panel) (upper rear case cover to inner metal shield)	31-700818-06P
Screw - #8x3/8" TFB Ph Pan Hd (back plane support to base bottom pan) (back plane support to sides) (base cover plate to base) (centre support plate to base bottom pan) (centre support plate to sides) (extrusion to base) (focus pcb shield to plenum) (for back plane pcb mother to card supports) (heat deflection shield) (Horizontal PCB shield to plenum) (inner metal shield to base) (plastic side trim to base) (plastic side trim to lower front bezel) (plenum to supports) (rear panel/card cage to base bottom pan) (rear panel/card cage assy to sides) (shield top left to u brkt) (side panel to base) (Mother to u-channel) (u-channel to sides) (u-channel to card cage)	31-900818-06P

Hardware Parts (continued)

Part	Electrohome #
Screw - #8x3/8" TFB Ph Pan HD BLK (front panel to base)	31-900814-06P
Screw - #8x3/8" TFB Ph Flat Hd Zinc (extrusion to base)	31-920818-06P
Screw - #8x1/2" Phillips Pltd (splitter to X-ray shield)	31-710818-08P
Screw - #8-32x1/2" MC Ph Zinc (front support brkts)	31-700818-08P
Screw - #8-32x1/2" Steel (HVPS to extrusion) (LVPS to extrusion)	33-000865-32P
Screw - #8-32x1/2" Special Ph Trus (center case cover to mounting brkt)	33-000865-34P
Screw - 1/4-20x1/2" Hex Cap Skt (crt to crt mounting plate - on CRT/Bulkhead Assemblies)	31-851419-08P
Screw - 1/4-20x5/8" Hex Cap Skt (base plate to extrusion)	31-851419-10P
Screw - 3/8-16x2 1/2" Hex Cap (CRT to lens mount) (9)	31-852419-40P
Shield - Base & Cover (on CRT/Bulkhead Assemblies)	39-001551-01P
Shield - Foam Trim	39-001548-01P
Shield - Focus Module	35-005172-02P
Shield - Focus PCB	39-001547-01P
Shield - Heat Deflector	35-005140-01P
Shield - Horizontal Deflection Module	35-005170-03P
Shield - PVC Horizontal/Cover	39-001547-02P
Shield - PVC Strip (Horizontal Deflection Module shield)	39-001573-01P
Shield - Top, Left	35-005159-01P
▲ Shield - X-ray Top (on CRT/Bulkhead Assemblies)	35-005129-01P
Shield Panel - Side, Upper Left (as view from rear)	35-005163-01P
Shield Panel - Side, Upper Right (as view from rear)	35-005163-02P
▲ Splitter - HV Assy (shield of green CRT)	34-001278-01P
Spring - Compression 0.75" ID x 2.00" (9)	35-004410-01P
Standoff - Female Assy Pkg (through control trim panel into dins)	33-000751-01P
Stigmator Ring (on CRT/Bulkhead Assemblies)	21-000687-01P
Strip - Foam Adhesive Back (centre of each module shield lid)	54-009448-01P
Stud - Ball	33-000979-03P
Support - Card/Large Left	35-005154-01P
Support - Card/Large Right	35-005154-02P
Support - Card/Medium Left	35-005155-01P
Support - Card/Medium Right	35-005155-02P
Support - U-channel	35-005157-01P
Tape - Copper 1"W SL365 (CRT)	36-000008-93P
Tape - Fire Ret Vinyl .5" (CRT/Bulkhead Assemblies - under focus magnet clamp)	36-000090-02P

Hardware Parts (continued)

Part	Electrohome #
Tape - Kapton 1/2" Wide (CRT/Bulkhead Assemblies - on focus magnet)	36-000129-02P
Tape - Kapton 1" W (CRT/Bulkhead Assemblies - on focus magnet)	36-000129-01P
Tape - Lead 1 1/2" (CRT/Bulkhead Assemblies - inside CRT cover)	36-000094-04P
Tape - Lead 2" (CRT/Bulkhead Assemblies - inside cover over each top X-ray shield)	36-000094-03P
Tape - Polyken 1"W (on edges of b/p plate to protect harness) (over kapton tape under each focus magnet on CRT/Bulkhead Assemblies)	36-000008-30P
Terminal - Crimp Type (for fan leads)	34-000598-02P
Ties - Purse Lock 1/4" Nylon (Vertical Deflection wires)	33-001003-02P
Ties - Purse Lock 3/8" Nylon (Focus/Horizontal Deflection wires)	33-001003-03P
Washer - .375"x.125"X.032" (CRT under VNB enclosure to X-ray shield screw) (CRT under mtg brkt screws)	33-000210-63P
Washer - 9/16"x1/4"x.050 Zinc (under top plate to lens mount screws) (clamp bolt to bottom plate) (under base plate to extrusion screws)	33-000210-69P
Washer - .468"x.187" (screws from plastic side to lower front trim)	33-000210-41P
▲ Yoke - Deflection (on CRT Bulkhead Assemblies)	21-000684-01P
Yoke - Convergence (on CRT Bulkhead Assemblies)	21-000685-01P

5.3 Disassembly

This subsection provides disassembly instructions for replacement/access of the projector's main system modules and components. Figure 5-1, located at the end of this section, illustrates the location of each module/component within the projector assembly. Use these instructions and the illustration to assist you during module/component removal.

ALWAYS UNPLUG THE PROJECTOR PRIOR TO DISASSEMBLY



HIGH VOLTAGES MAY BE EXPOSED

Note: For most disassembly procedures, a Phillips head screw driver is required.

Covers & Panels ►

Projector covers and panels include:

- Front Top Cover
- Rear Top Cover
- Front Panel
- Rear Panel
- Upper Left and Right Side Panels
- Lower Left and Right Side Panels
- Left and Right Side Shield Panels

Aside from replacement, covers and panels must be removed to access internal modules. For module access, refer to Table 5-1 below to determine which panels/covers must be removed.

Table 5-1. Covers/Panels Requiring Removal

Module to Remove or Access	Covers		Outer Panels						Shield Panels	
	F. Top	R. Top	Front	Rear	U.L. Side	U.R. Side	L.L. Side	L.R. Side	L. Side	R. Side
CLM										
CRT	✓	✓	✓	✓	✓	✓			✓	✓
CVA	✓	✓		✓						
FCM	✓	✓								
HDM	✓	✓								
HVPS			✓							
IR Sensor	✓	✓			✓				✓	
Keypad	✓	✓			✓					
LVPS			✓							
Mother Bd.	✓	✓	✓	✓	✓	✓			✓	✓
VDM	✓	✓		✓						
VIM										
VNB	✓	✓		✓						

Front Top Cover Removal (item 45)

- a) Position your hands above the red and blue lenses and grasp the front top cover. Gently lift it until it is released from its securing latch. Slide the cover away from the projector.

Rear Top Cover Removal (item 46)

- a) Remove the front top cover per instructions.
- b) Loosen the two fixing screws located at the front section of the cover.
Note: Do not remove the screws, only loosen them. Next, slide the cover back about 1" then lift to remove.

Front Panel Removal (item 5)

- a) Remove the two front screws (item 48) at the bottom of the front panel.
- b) Remove the two screws along the panel sides then pull the panel down.

Rear Panel Removal (item 15)

- a) Remove the front and rear top covers per instructions.
- b) Remove the three screws (item 52) at the bottom of the rear panel.
- c) Remove the two screws at the top corners of the panel then pull the panel away from the projector.

Upper Side Panel Removal (left - item 1, right - item 17)

- a) Remove the front and rear top covers per instructions.
- b) Remove the five screws along the bottom edge of the upper side panel.
- c) The panel is secured to the shield panel beneath it by tabs located at the top. Grasp the bottom of the panel and pull it up about 90° until the tabs are free, then pull the panel away.

Lower Side Panel Removal (left - item 2, right - item 16)

- a) Remove the upper side panel (per instructions) for the side to be removed.
- b) With the upper side panel removed, the lower side panel is secured only by two screws located at the bottom. Before removing the two screws notice the three chassis frame screws along the bottom edge of the panel. Determine if the projector legs must be lowered to allow the panel to clear the three screws. If the legs must be lowered, use the wrench provided. Next, remove the two panel securing screws and lower the panel.

Note: If the projector legs must be lowered, do not forget to readjust them to align the projected image once servicing is complete.

Side Shield Panel Removal (left - item 54, right - item 56)

- a) Remove the upper side panel (per instructions) for the side to be removed.
- b) Remove the four screws at the bottom of the shield panel. Next, remove the two top screws then pull the shield panel away.

Modules ➤ Projector modules include:

Serviceable

- Control Module (CLM)
 - includes a Control Board and a Deflection Processor Board (DPB)
- Convergence Module (CVA)
- Focus Module (FCM)
- Horizontal Deflection Module (HDM)
- Vertical Deflection Module (VDM)
- Video Input Module (VIM)
- Video Neck Boards - Red, Green, Blue (VNB)

Non-Serviceable

- High Voltage Power Supply (HVPS)
- Low Voltage Power Supply (LVPS)

Control Module Removal (item 11)

- a) Unscrew the two thumb screws located at the front of the Control Module then gently pull the module out of the projector.
- b) To remove the DPB (a separate service item), remove the four screws which secure the DPB to the Control Board then carefully pull the DPB off the board.

Convergence Module Removal (item 19)

- a) Remove the front and rear top covers and the rear panel per instructions.
- b) Unplug connectors P1, P3, and P5 from the Convergence Module.
- c) Unscrew the three lower screws which secure the module to the chassis.
- d) Unscrew the single screw which secures the module to the small "L" bracket attached to the Focus Module's shield enclosure.
- e) For module replacement, remove the four screws at the top of the module which secure the PCB to the heat sink assembly. See Figure 5-1.

Note: Upon reassembly, use conductive heat sink compound between heat sink components and the board.

Focus Module Removal (item 23)

- a) Remove the front and rear top covers per instructions.
- b) Remove the snap-on shield cover located above the Focus Module.
- c) Unplug P101, P201, and P301 from the module.
- d) Pull the module up from its connection at the Mother Board.

Horizontal Deflection Module Removal (item 22)

- a) Remove the front and rear top covers per instructions.
- b) Remove the snap-on shield cover located above the Horizontal Deflection Module.
- c) Unplug P2, P4, and P5 from the module. *Note: For the earlier version of this module, P1, P3, and P5 are removed.*
- d) Pull the module up from its connection at the Mother Board.

Vertical Deflection Module Removal (item 18)

- a) Remove the front and rear top covers and the rear panel per instructions.
- b) Unplug connectors P5, P6, and P7 from the Vertical Deflection Module.
- c) Unscrew the two lower screws which secure the module to the chassis frame.
- d) Unscrew the single screw which secures the module to the small "L" bracket attached to the Horizontal Module's shield enclosure.
- e) For module replacement, remove the three screws at the top of the module which secure the PCB to the heat sink assembly. See Figure 5-1.
Note: Upon reassembly, use conductive heat sink compound between heat sink components and the board.

Video Input Module Removal (item 14)

- a) Unscrew the two thumb screws located at the front of the Video Input Module then pull the module out until it is completely exposed. Unplug the R, G, B plugs at the back of the module.
- b) Remove the blank plate (or optional module) from the left side of the Video Input Module by unscrewing the single screw, item 49, shown in Figure 5-1.

Video Neck Board Removal (item 25)

- a) Remove the front and rear top covers per instructions.
- b) Remove the two screws at the top of the shield enclosure for the Video Neck Board then pull the enclosure away.
- c) Unplug the leads connected to P1, J1, and P4 on the Video Neck Board. See Figure 5-1.
- d) Unscrew the four screws which secure the Video Neck Board via four small triangular clamp plates. Set the screws and clamp plates aside then gently pull off the Video Neck Board.

High Voltage Power Supply Removal (item 3)

- a) Remove the front panel per instructions.
- b) Disconnect the main anode lead from the High Voltage Splitter. Turn the locking ring counter-clockwise to release the plug.

CAUTION: Beware of HIGH VOLTAGE discharge from the anode lead. Properly discharge lead voltage to chassis ground upon removal.

- c) Follow the anode lead from the splitter to the High Voltage Power Supply. Remove any securing ties and note their locations for re-assembly.
- d) Unscrew the two screws located at the top of the High Voltage Power Supply.
- e) Using the handle at the top of the supply, pull the supply away from the projector while guiding the anode lead through the projector.

Low Voltage Power Supply Removal (item 4)

- a) Remove the front panel per instructions.
- b) Unscrew the two screws located at the top of the Low Voltage Power Supply.
- c) Using the handle at the top of the supply, pull the supply away from the projector.

Assemblies ►

Projector assemblies include:

- CRT Assemblies - Red, Green, Blue
- IR Sensor Assembly
- Keypad Assembly (built-in)
- Lens Assemblies (3)
- Mother Board Assembly

CRT Assembly Removal (item 28)

Note: The CRT Assembly is removed from the projector with the Lens Assembly and Video Neck Board attached.

- a) Remove the following covers and panels per instructions:
 - Front Top Cover
 - Rear Top Cover
 - Front Panel
 - Rear Panel
 - Upper Left and Right Side Panels
 - Left and Right Shield Panels
- b) Remove the Convergence Module and Vertical Deflection Module per instructions.

- c) Remove the two screws at the top of the Video Neck Board shield enclosure and set the enclosure aside.
- d) Unplug the following leads/connectors:

Red CRT Removal

- leads to J1, P1 and P4 on the Red Video Neck Board
- P101 from the Focus Module
- P2 from the Horizontal Deflection Module
- P1 from the Convergence Module
- P5 from the Vertical Deflection Module

Green CRT Removal

- leads to J1, P1 and P4 on the Green Video Neck Board
- P102 from the Focus Module
- P4 from the Horizontal Deflection Module
- P3 from the Convergence Module
- P6 from the Vertical Deflection Module

Blue CRT Removal

- leads to J1, P1 and P4 on the Blue Video Neck Board
- P103 from the Focus Module
- P5 from the Horizontal Deflection Module
- P5 from the Convergence Module
- P7 from the Vertical Deflection Module

- e) Disconnect the Red/Green/Blue anode lead from the High Voltage Splitter. Turn the locking ring counter-clockwise to release the plug.

CAUTION: Beware of HIGH VOLTAGE discharge from the anode lead. Properly discharge lead voltage to chassis ground upon removal.

- f) Loosen the two screws which secure the keypad bracket assembly to the Bulkhead Top Plate. Move the keypad and bracket assembly aside.
- g) If the Green CRT Assembly is being removed, unscrew the two High Voltage Splitter mounting screws.
- h) Unscrew the two screws from each front support brace (item 38) and set the braces aside.
- i) Unscrew the four long bolts and six allen head screws which secure the Bulkhead Top Plate. Lift the plate and notice the three dowel pins on its bottom side. Upon reassembly, these pins must align with the dimples on the lens mounting plates.
- j) Carefully lift the CRT Assembly (with Lens Assembly and Video Neck Board) and place on a work bench.
- k) At the work bench, remove the four screws (item 35) which secure the lens assembly to the lens mounting plate. Set the Lens Assembly aside.

- l) Unplug the two upper lug terminals from the Video Neck Board (VNB). Unscrew the four screws which secure the VNB (via four small triangular clamp plates). Set the screws and plates aside then pull off the VNB.

Note: Upon reassembly, a full optical alignment is required.

IR Sensor Removal (item 7)

- a) Remove the front and rear top covers per instructions.
- b) Remove left top side panel and left shield panel per instructions.
- c) Follow the IR Sensor lead from the sensor to the Backplane Board. Remove any securing ties and note their locations for reassembly.
- d) At the Backplane Board, below the red CRT, unplug the sensor plug (P2).

Keypad Removal (item 40)

- a) Remove the front and rear top covers per instructions.
- b) Remove left top side panel and left shield panel per instructions.
- c) Follow the keypad lead from the keypad to the Backplane Board. Remove any securing ties and note their locations for keypad reassembly.
- d) At the Backplane Board, below the red CRT, unplug the keypad plug (P3).
- e) Slide the keypad out of its bracket.

Lens Assembly Removal (item 57)

- a) Remove the front top cover per instructions.
- b) Remove the four screws (item 35) which secure the Lens Assembly to the lens mounting plate.

Mother Board Removal (item 9)

- a) Remove the red, green, and blue CRTs per instructions.
- b) Remove the Focus Module and Horizontal Deflection Module per instructions. Remove both shield enclosures by unscrewing the single mounting screw at the front of each.
- c) Unplug P11, P12, P13, P14, P15, and P17 from the Mother Board.
- d) Locate the support bracket used to secure the Convergence Module and Vertical Deflection Module. Unscrew the four screws which secure the bracket to the projector chassis frame then set the bracket aside.
- e) Unscrew the six screws which secure the Mother Board to the projector chassis frame. Lift the Mother Board up about 1/4" then slide it back until it is free of the projector.

Item	Description	Electrohome #
1	Panel - Side, Upper Left	53-002001-01P
2	Shield Panel - Side, Upper Left	35-005163-01P
3	Power Supply - High Voltage	03-000234-01P
4	Power Supply - Low Voltage	03-000229-01P
5	Panel - Front Trim	53-101305-01P
6	Cover - Lower Front Bezel	53-101312-01P
7	IR Sensor Assembly	03-IRSENS-01P
8	Backplane PCB Assembly - Mother	03-260315-02P
9	Mother PCB Assembly - Upper	03-260314-02P
10	Panel - Blank Trim (2)	53-101304-01P
11	Control Module (less DPB)	03-270306-03P
12	Deflection Processor Board	03-250306-03P
13	Panel - Blank Switcher/Interface	53-101356-01P
14	Video Input Module	03-270305-05P
15	Panel - Upper Back	53-101309-02P
16	Shield Panel - Side, Upper Right	35-005163-02P
17	Panel - Side, Upper Right	53-002001-02P
18	Vertical Deflection Module	03-270302-03P
19	Convergence (Amplifier) Module	03-270318-01P
20	Cover - Horizontal Deflection Module	35-005171-02P
21	Cover - Focus Module	35-005173-02P
22	Horizontal Deflection Module	03-270303-04P
23	Focus Module	03-270304-03P
24	Cover - Video Neck Board Enclosure	35-005167-01P
25	Video Neck Board	03-270313-04P
26	Bracket - VNB Enclosure (12)	35-005169-01P
27	Clamp Plate - Video Neck Board (12)	35-005168-01P
28	CRT Bulkhead Assembly - Red	03-007062-01P
29	CRT Bulkhead Assembly - Green	03-007062-03P
30	CRT Bulkhead Assembly - Blue	03-007062-02P
31	Spring - Compression 0.75" ID x 2.00"	35-004410-01P
32	Mount - Lens (3)	35-005125-01P
33	Bushing - Spherical	35-004411-02P
34	Screw - 3/8-16x2 1/2" Hex Cap (9)	31-852419-40P
35	Screw - 1/4-20x1/2" Hex Cap Skt	31-851419-08P
36	Shield - Foam Trim	39-001548-01P
37	Plate - Top (Lens Mounts)	35-005127-01P
38	Brace - Front Support (2)	35-005132-02P
39	Bolt - 1/4-20x8" (4)	33-000910-03P
40	Keypad Assembly - Fixed	03-FIXKEY-01P
41	Bracket - Keypad Mounting, Top	35-005187-01P
42	Bracket - Keypad Mounting, Bottom	35-005184-01P
43	Bracket - Top Cover Support	35-005135-01P
44	Splitter - HV Assy	34-001278-01P
45	Cover - Front Top	53-101307-02P
46	Cover - Rear Top	53-101308-02P
47	Screw - #8x3/8" TFB Ph Pan Head	31-900818-06P
48	Screw - #8x3/8" TFB Ph Pan Head	31-900814-06P
49	Screw - #4-40x3/8" MC Ph Blk Ox	31-700414-06P
50	Screw - #8-32x1/2" Special Ph Trus	33-000865-34P
51	Screw - #4-40x5/16" MC Ph Zinc	31-700418-05P
52	Screw - #8-32x3/8" Ph Pan Hd	31-700818-06P
53	Label - Product ID, Marquee 8000	54-019002-01P
54	Panel (Grille) - Side, Lower Left	53-101310-03P
55	Bracket - Rear Panel Support	53-101300-01P
56	Panel (Grille) - Side, Lower Right	53-101310-04P
57	Lens Assembly	03-000232-01P
58	Panel - Control Module	53-101302-02P

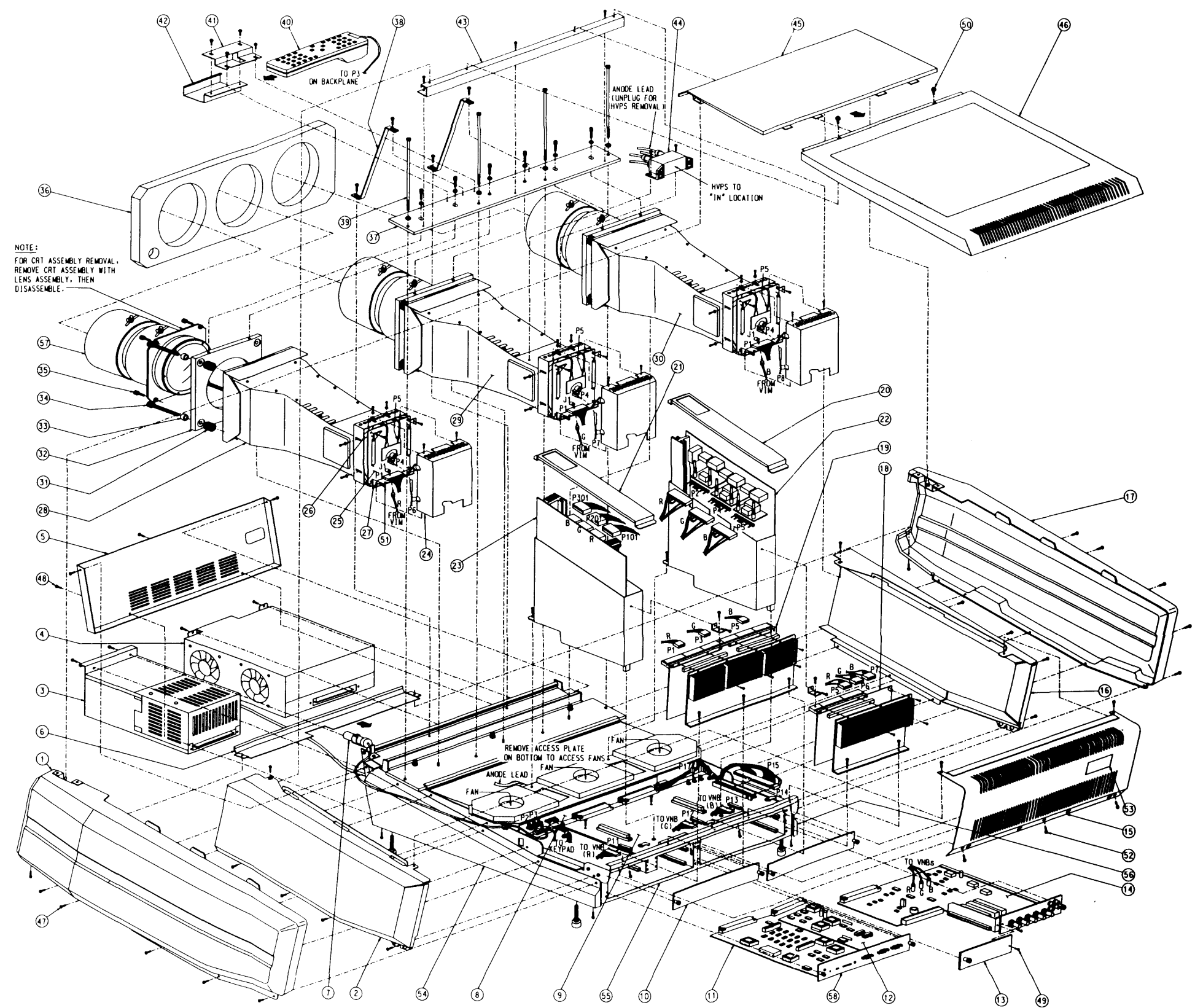


Figure 5-1. Marquee 8000 Exploded View