DISASSEMBLY PROCEDURES

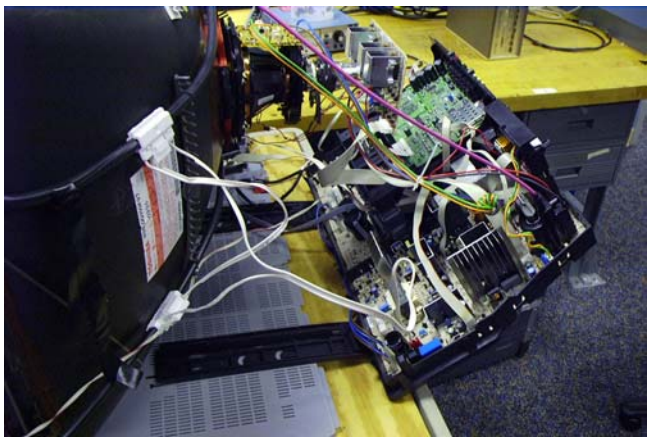
Direct View Models

Back Cabinet Removal

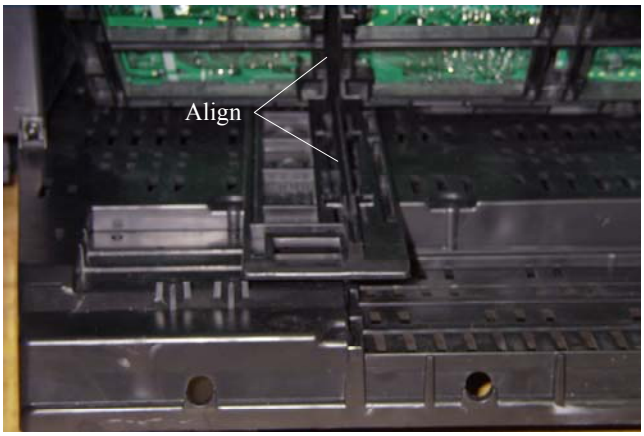
The back cabinet is held in place with several T-20 Torx head screws. The number and placement of the screws may vary with cabinet designs. If model has a subwoofer, disconnect cable at bottom of cabinet assembly.

Chassis Tray/Front Control Panel/Front AV Jack/ Removal/Service Position

1. Remove the Back Cabinet Assembly
2. Lift sides of chassis tray assembly
3. Slide chassis tray assembly away from CRT approximately 2 - 3".
4. Chassis will release from bottom cabinet assembly.
5. Remove 1 T-20 Torx head screw from Front A/V Jack Housing.
6. With a small screwdriver release tab securing Front A/V Housing to Cabinet Assembly. Slide Housing away from cabinet to remove.
7. Remove 2 T-20 Torx head screws mounting Front Control Panel to Front Cabinet Assembly.
8. Chassis may now be placed in the Service Position. See diagram below.



9. To place chassis tray back into the cabinet, align the bottom of the chassis tray with the locking mechanism of the bottom cabinet assembly.



10. Slide chassis towards the CRT. Chassis will drop into the locking mechanism. Continue to slide forward to lock chassis into place.

Note: Lead dress is critical to the performance of the instrument. Care should be taken to dress all leads in their original positions. See section on Critical Lead Dress.

CRT Removal

1. Remove Back Cabinet Assembly (See Back Cabinet Removal).
2. Disconnect cables to Speaker Assemblies, Front Panel Assembly, Degauss Coil, Deflection Yoke, Field Correction Coil and SVM Coil.
3. Remove Front A/V Assembly. (See Front AV Jack Removal, step 6).
4. Remove Anode Lead from CRT. Care should be taken to prevent shock before removal. Discharge CRT Anode to CRT Ground.
5. Remove Kine Drive PCB from CRT.
6. Disconnect CRT Ground Lead.
7. Remove Chassis Tray Assembly. (See steps 2 and 3 of Chassis Tray Removal).
8. Remove Degauss Coil and Degauss Coil clips from CRT.
9. Remove Field Correction Coil.
10. Lay instrument face down on a soft surface to prevent damage to the Front Cabinet Assembly and CRT face.
11. Remove 4, 10mm bolts securing CRT to Cabinet Assembly.
12. Carefully remove CRT from Cabinet Assembly. Remove Ground Strap and place on new CRT.
13. Reinstall in reverse order.

Power Supply/Scan PCB Removal

1. Remove Chassis Tray from bottom Cabinet Assembly (See Chassis Tray Removal).
2. Remove Dynamic Focus PCB.
3. Disconnect cables
4. Press tabs to release Power Supply/Scan PCB from the Chassis Tray.
5. Lift PCB from the rear to remove from chassis tray.
6. Reinstall in reverse order.

Mains Input Doubler (MID) PCB Removal

1. Remove chassis tray from cabinet assembly (See Chassis Tray Removal).
2. With a small screwdriver release 2 tabs holding MID bracket to chassis tray.

DISASSEMBLY PROCEDURES

3. Disconnect cables.
4. Release tabs on chassis tray.
5. Lift MID PCB from the chassis tray.

Digital Ready Interface (DRI) PCB Removal

1. Remove 4 T-10H Torx head screws from the Jack Panel portion of the Chassis Tray Assembly.
2. Remove 1 T-20 Torx head screw in center of PCB.
3. Disconnect cables.
4. Press 2 release tabs from front of the PCB.
5. Slide PCB towards the CRT.
6. Lift to remove.
7. Reinstall in reverse order.

Small Signal (SSB) PCB Removal

1. Remove DRI PCB (See above).
2. Remove DRI PCB Bracket. Release 2 tabs at front of bracket. Lift front of bracket to remove from chassis tray.
3. Remove 3 T-10H Torx head screws from Jack Panel portion of the Chassis Tray Assembly.
4. Disconnect cables.
5. Release tabs on Chassis Tray Assembly.
6. Slide Small Signal PCB towards the front of the instrument and lift out to remove.
7. Reinstall in reverse order.

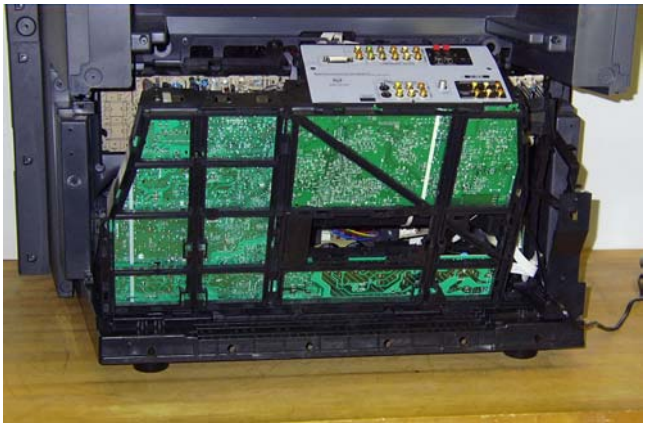
Projection Models

Back Cabinet Removal

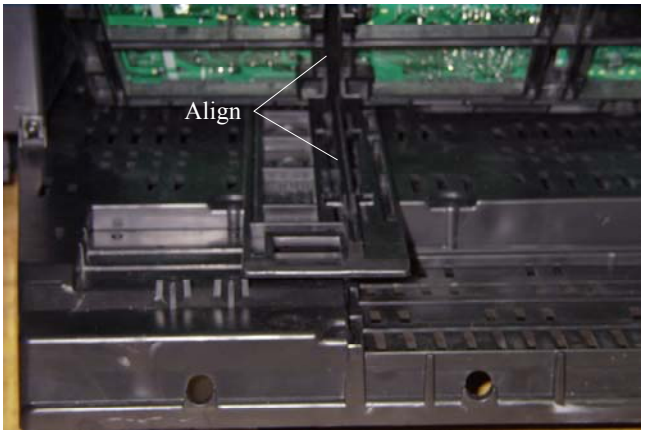
The back cabinet is held in place with several T-20 Torx head screws. The number and placement of the screws may vary with cabinet designs. If model has a subwoofer, disconnect cable at bottom of cabinet assembly.

Chassis Tray Removal/Service Position

1. Remove the Back Cabinet Assembly
2. Lift sides of chassis tray assembly
3. Slide chassis tray assembly away from CRT's approximately 2 - 3".
4. Chassis will release from bottom cabinet assembly.
5. Chassis may now be placed in the Service Position. See diagram below.



6. To place chassis tray back into the cabinet, align the bottom of the chassis tray with the locking mechanism of the bottom cabinet assembly.



7. Slide chassis towards the CRT's. Chassis will drop into the locking mechanism. Continue to slide forward to lock chassis into place.

Note: Lead dress is critical to the performance of the instrument. Care should be taken to dress all leads in their original positions. See section on Critical Lead Dress.

Cabinet Front Disassembly, FPA/Front A/V PCB/Speaker Removal

1. Grasp Speaker Grille on the sides. Pull away from instrument to remove.
2. Remove T-20 Torx head screws holding front bottom.
3. Remove T-20 Torx head screws holding front cabinet assembly. Unplug cables for Front Panel Assembly and Front Audio/Video Jack Assembly. FPA and Front A/V Assemblies may now be serviced.
4. Access Panel may now be removed to allow service of Kine Drive circuits.
5. Remove T-20 Torx head screws securing front frame to cabinet assembly.
6. Speaker Assemblies may now be serviced. Remove 5 T-20 Torx head screws to gain access to

crossover circuit located internal to each speaker enclosure.

7. Reassembly in reverse order.

Screen/Mirror Removal, IR PCB/Convergence Auto Sensor Replacement.

1. Remove Front Cabinet Assembly. (See steps 1 and 3 in Cabinet Front Disassembly)
2. Remove T-20 Torx head screws securing Screen Assembly to cabinet frame.
3. With Screen Assembly removed, IR PCB may now be serviced.
4. Convergence Auto Sensors may now be replaced. Remove T-20 Torx head screws securing each sensor to the cabinet frame.
5. Remove 4 T-20 Torx head screws securing the mirror to the cabinet frame.

CRT Assembly Removal, Focus/Screen Assembly/HV Splitter Assembly Replacement

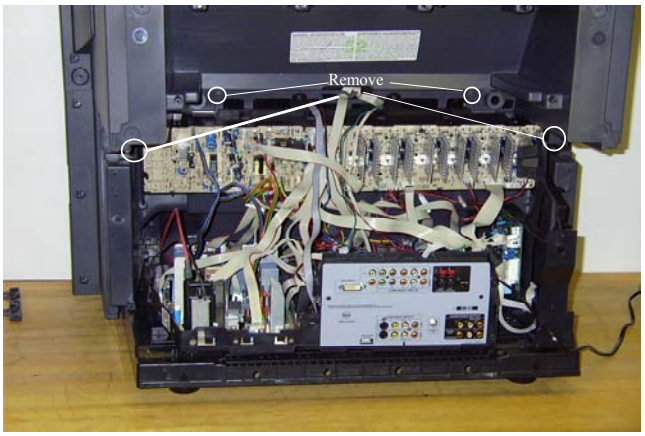
1. Remove Cabinet Front Assembly. (See Cabinet Front Disassembly).
2. Remove Screen Assembly. (See Screen/Mirror Removal).
3. Remove Kine Drive PCB's from CRT.
4. Remove IR PCB from holder located on top of CRT Assembly.
5. Disconnect Convergence Yoke Cables from Convergence Amp PCB and Deflection Yoke Cables from Convergence Adapter PCB. Disconnect SVM cables and CRT ground cables from each Kine Drive PCB.
6. Remove Anode Lead from HV Splitter (Lead from IHVT to HV Splitter). Anode Lead can be removed by pushing in slightly, then twit and pull. If HV Splitter Assembly needs to be replaced, remove Anode Leads to each CRT. Use same procedure to remove leads. Disconnect Ground lead. Remove ¼ inch screw securing assembly to bracket
7. Remove ¼ inch screw securing Focus/Screen Assembly to CRT Frame.
8. Remove 4 T-20 Torx head screws securing CRT assembly to Cabinet Frame. Slide CRT Assembly out to remove from cabinet. (It may be necessary to remove the Speaker Assemblies).
9. Reinstall in reverse order.

Note: Lead Dress is critical to the operation of the instrument. Care should be taken to dress all leads in their original positions. See section on Critical Lead Dress.

Upper Cabinet Assembly Removal

For ease of service the upper and lower cabinet assemblies may be separated.

1. Remove back cabinet assembly. (See Back Cabinet Removal).
2. Remove Cabinet Front Assembly. (See Cabinet Front Disassembly.
3. Remove Front Panel Assembly and Front A/V from holder. (Front A/V may be left in the Cabinet Front Assembly by disconnection the cables).
4. Disconnect cable to Auto Convergence Sensors.
5. Disconnect cables from DVD assembly if instrument is a DVD model.
6. Remove 4 T-20 Torx head screws securing Upper and Lower Cabinet Assemblies.



7. Lift Upper Cabinet straight up to remove.

8. Reassemble in reverse order.

Power Supply/Scan PCB Removal

1. Remove Chassis Tray from bottom Cabinet Assembly (See Chassis Tray Removal).
2. Disconnect cables
3. Press tabs to release Power Supply/Scan PCB from the Chassis Tray.
4. Lift PCB from the rear to remove from chassis tray.

DISASSEMBLY PROCEDURES

5. Reinstall in reverse order.

Mains Input Doubler (MID) PCB Removal

1. Remove chassis tray from cabinet assembly (See Chassis Tray Removal).
2. With a small screwdriver release 2 tabs holding MID bracket to chassis tray.
3. Disconnect cables.
4. Release tabs on chassis tray.
5. Lift MID PCB from the chassis tray.

Convergence Adapter PCB/ Convergence Amplifier PCB Removal

1. Remove T-20 Torx head screw from middle of PCB.
2. Release tabs at top of PCB to remove from bracket.
3. Disconnect cables
4. Reinstall in reverse order.

Convergence Signal PCB Removal

1. Using a screwdriver pry up on tab under bracket. (See diagram below).

2. Pull back on bracket to remove convergence signal bracket from chassis.
3. Release tabs on top of bracket to remove Convergence Signal PCB.
4. Disconnect cables.
5. Reinstall in reverse order.

Digital Ready Interface (DRI) PCB Removal

1. Remove 4 T-10H Torx head screws from the Jack Panel portion of the Chassis Tray Assembly.
2. Remove 1 T-20 Torx head screw in center of PCB.
3. Disconnect cables.
4. Press 2 release tabs from front of the PCB.
5. Slide PCB towards the CRT.
6. Lift to remove.
7. Reinstall in reverse order.

Small Signal (SSB) PCB Removal

1. Remove DRI PCB (See above).
2. Remove DRI PCB Bracket. Release 2 tabs at front of bracket. Lift front of bracket to remove from chassis tray.
3. Remove 3 T-10H Torx head screws from Jack Panel portion of the Chassis Tray Assembly.
4. Disconnect cables.
5. Release tabs on Chassis Tray Assembly.
6. Slide Small Signal PCB towards the front of the instrument and lift out to remove.
7. Reinstall in reverse order.

DVD Unit Removal (PTV Models)

1. Remove Back Cabinet Assembly.
2. Remove Front Cabinet Assembly (See Front Cabinet Disassembly).
3. Disconnect cables from DVD Unit.
4. Remove T-20 Torx head screws securing DVD Unit to Cabinet Frame.
5. Lift to remove DVD Unit from Cabinet.
6. Reinstall in reverse order.