

# Disassembly Procedure (E5515A/B/T)

Sept 14, 2000

This document provides the disassembly procedures for the replaceable assemblies and components of the test set. This document does not contain part numbers; for part numbers refer to "Replaceable Parts List".

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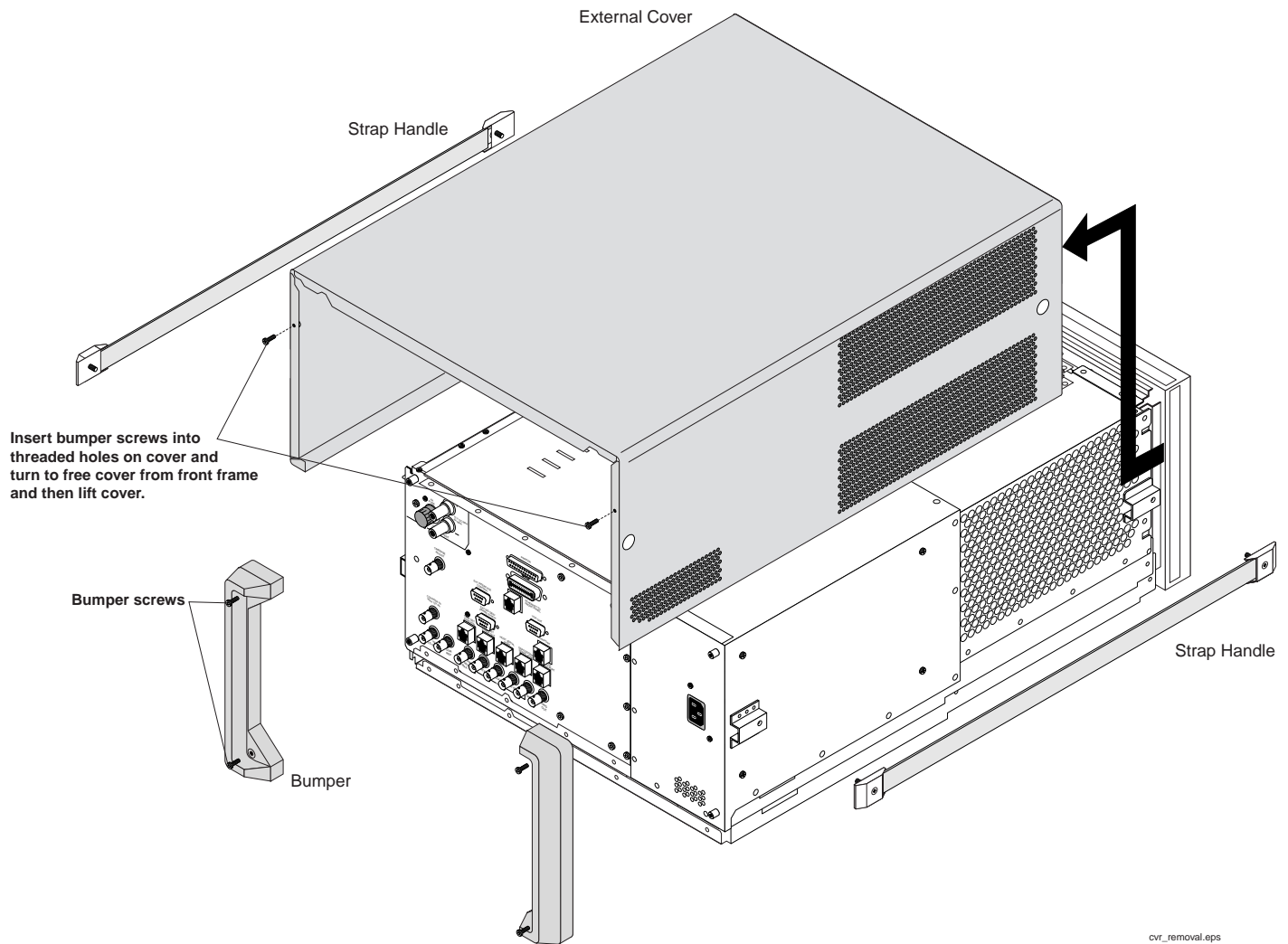
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## External Cover

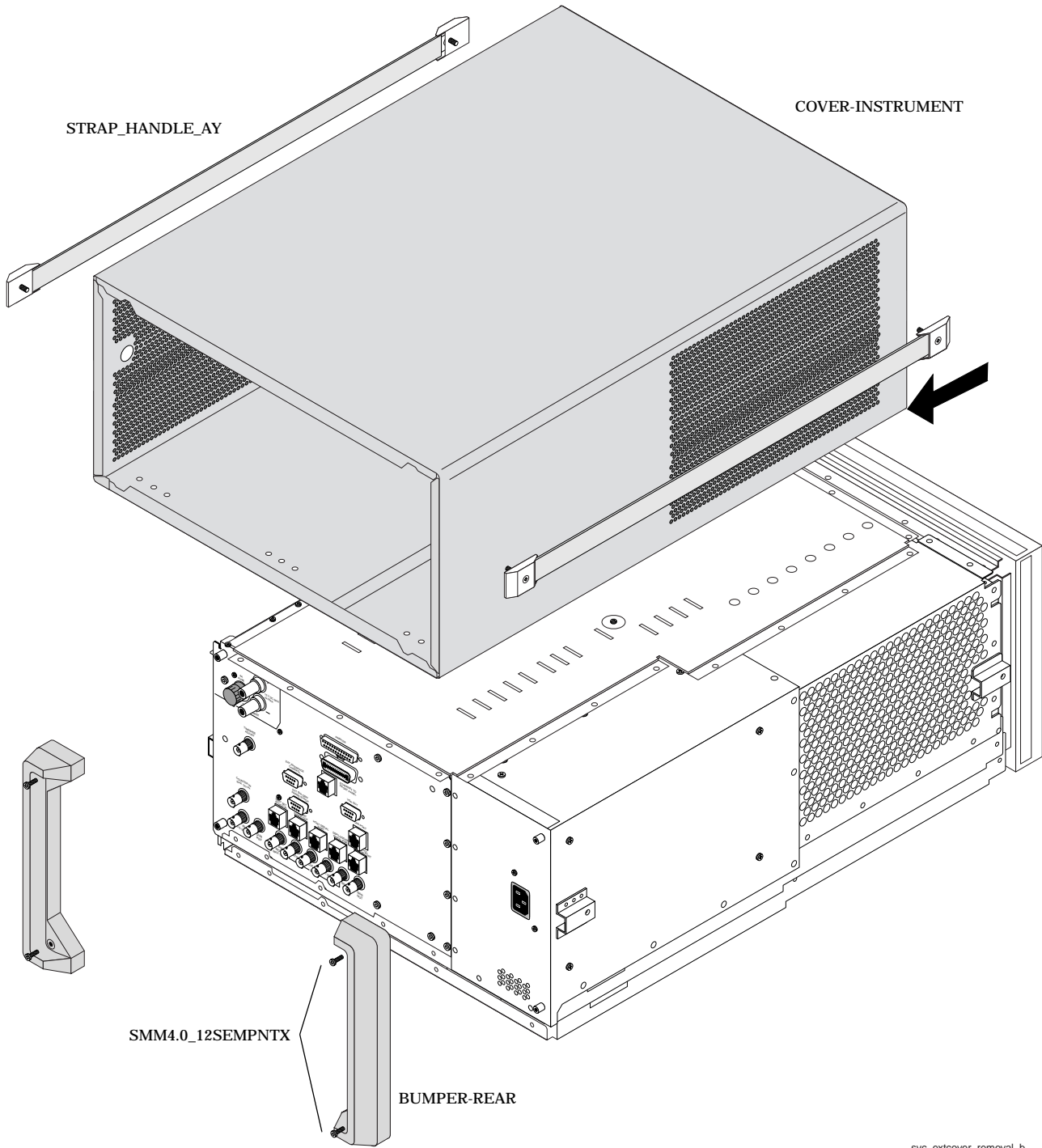
To remove the test set's external cover:

1. Disconnect all cables to the test set.
2. Remove the test set's strap handles and rear panel bumpers, see [figure 1](#).
3. Using 2 of the screws used to secure the bumpers, insert these screws into the threaded holes on the external cover. Alternately turn the screws to slide the cover from the front-panel frame groove.
4. When the cover clears the groove, lift the cover from the test set.

**Figure 1. External Cover (E5515A)**



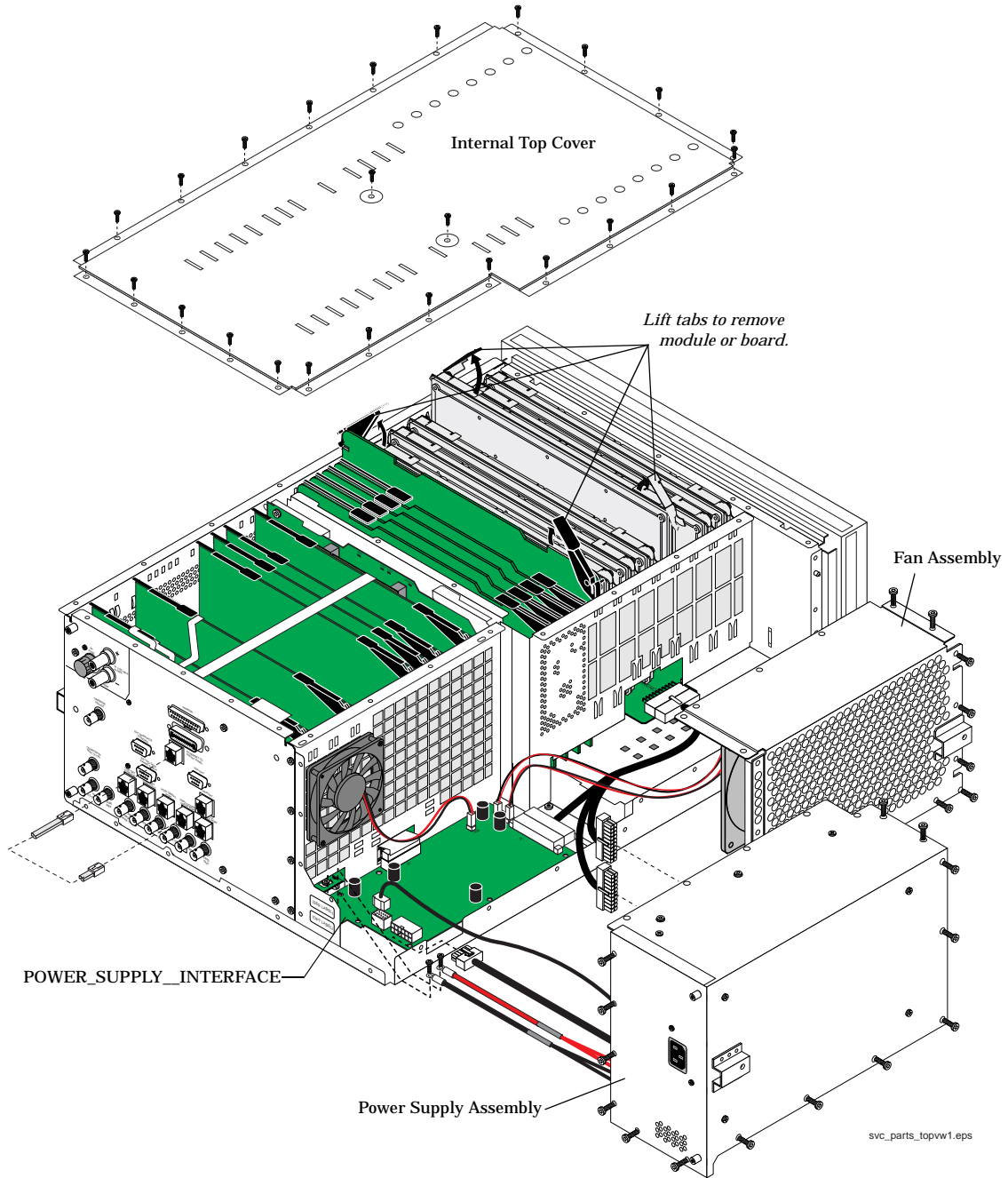
**Figure 2. External Cover (E5515B/T)**



## Internal Top Cover

1. Remove the test set's external cover, see [“External Cover”](#) on page 2.
2. Remove the screws securing the internal top cover to the chassis and lift the cover from the chassis, see [figure 3](#).

**Figure 3** Internal Top Cover

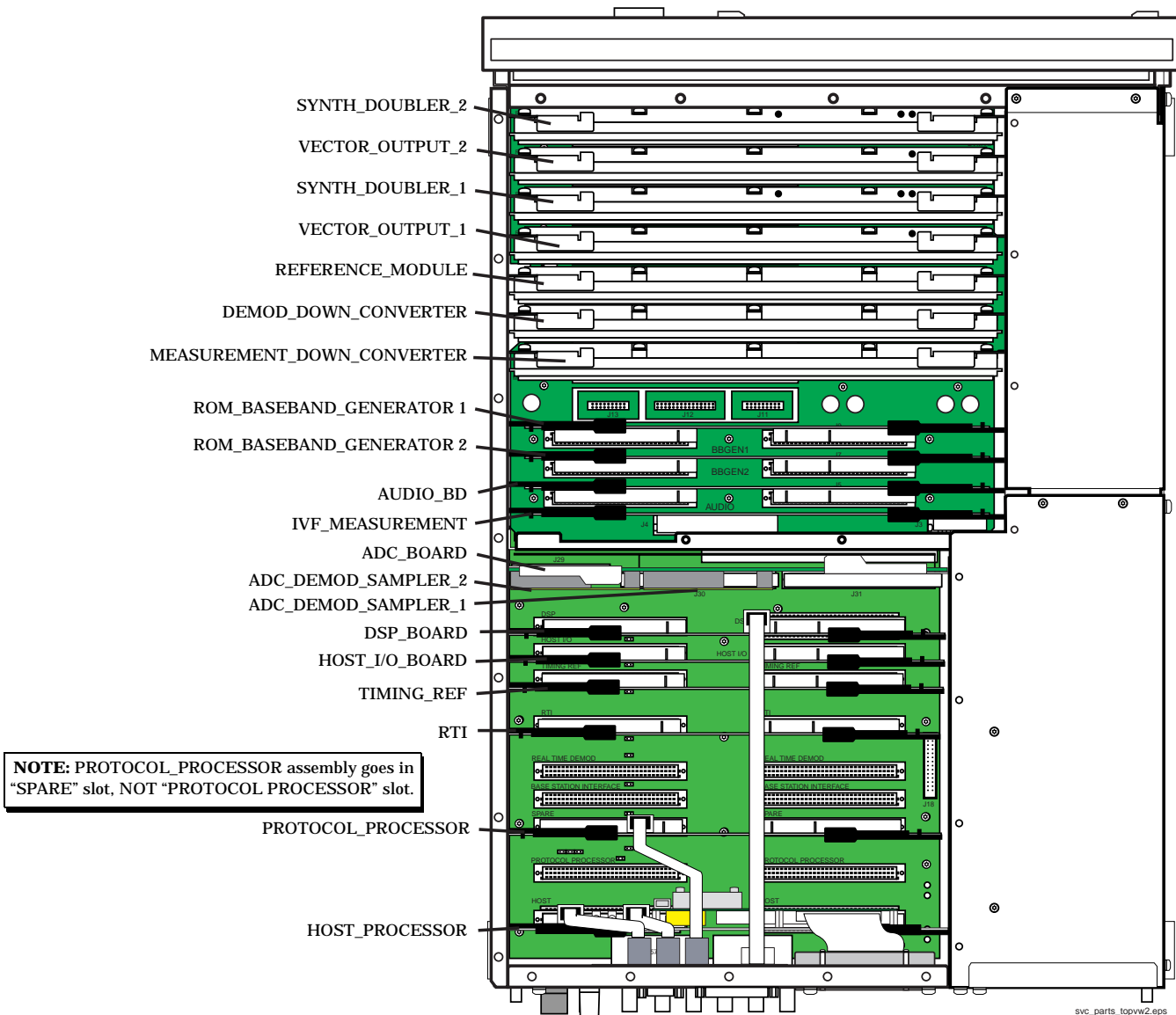


## Digital and RF Modules

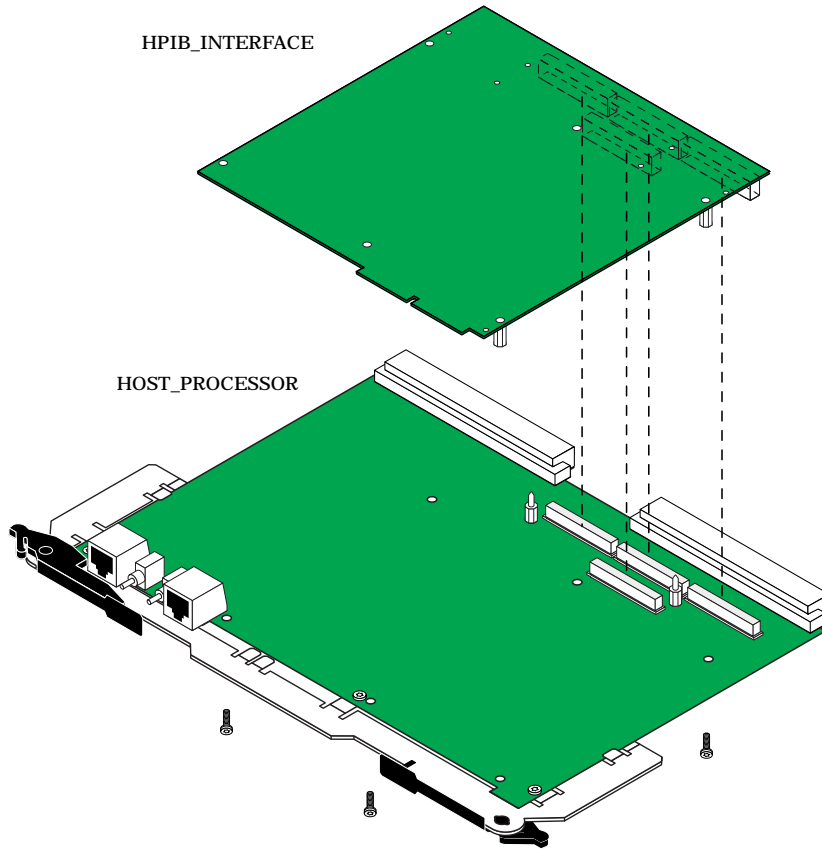
1. Remove the external and internal-top covers, see “External Cover” on page 2 and “Internal Top Cover” on page 4.
2. Refer to figure 4 and identify the module or board you want to remove.
3. To remove a module or board, simultaneously lift the tabs on each side of the module or board (see figure 3 on page 4), and lift it from the chassis.

For additional information regarding the HOST\_PROCESSOR and ADC\_BOARD assemblies, see figure 5 and figure 6 on page 6.

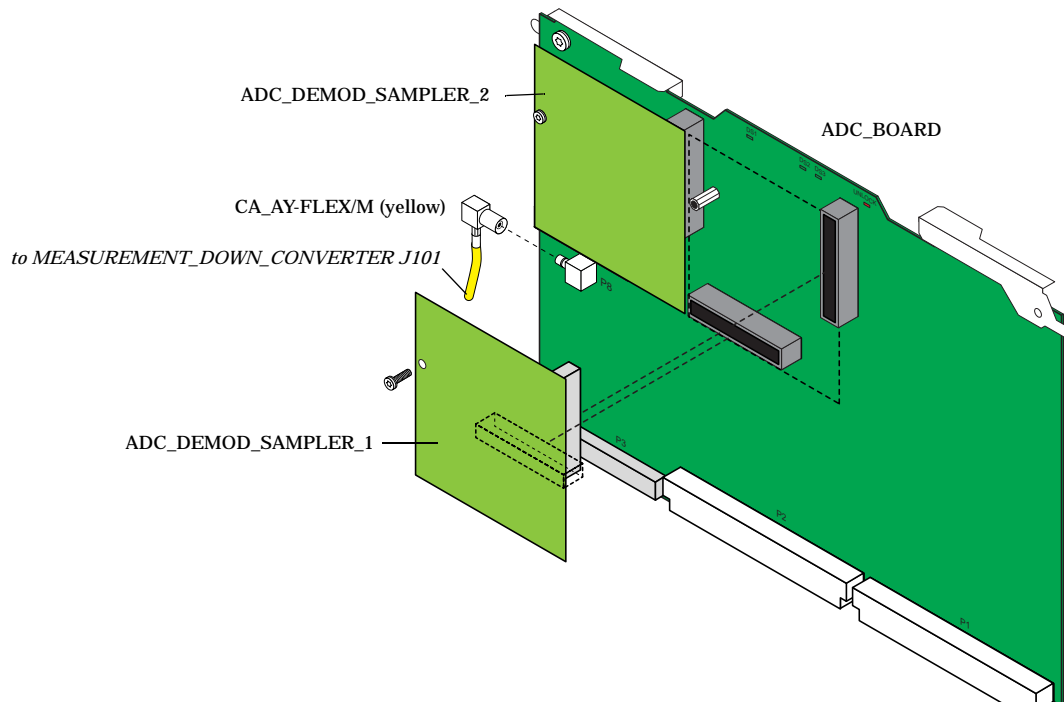
**Figure 4 RF and Digital Modules**



**Figure 5** **HOST\_PROCESSOR Assembly**



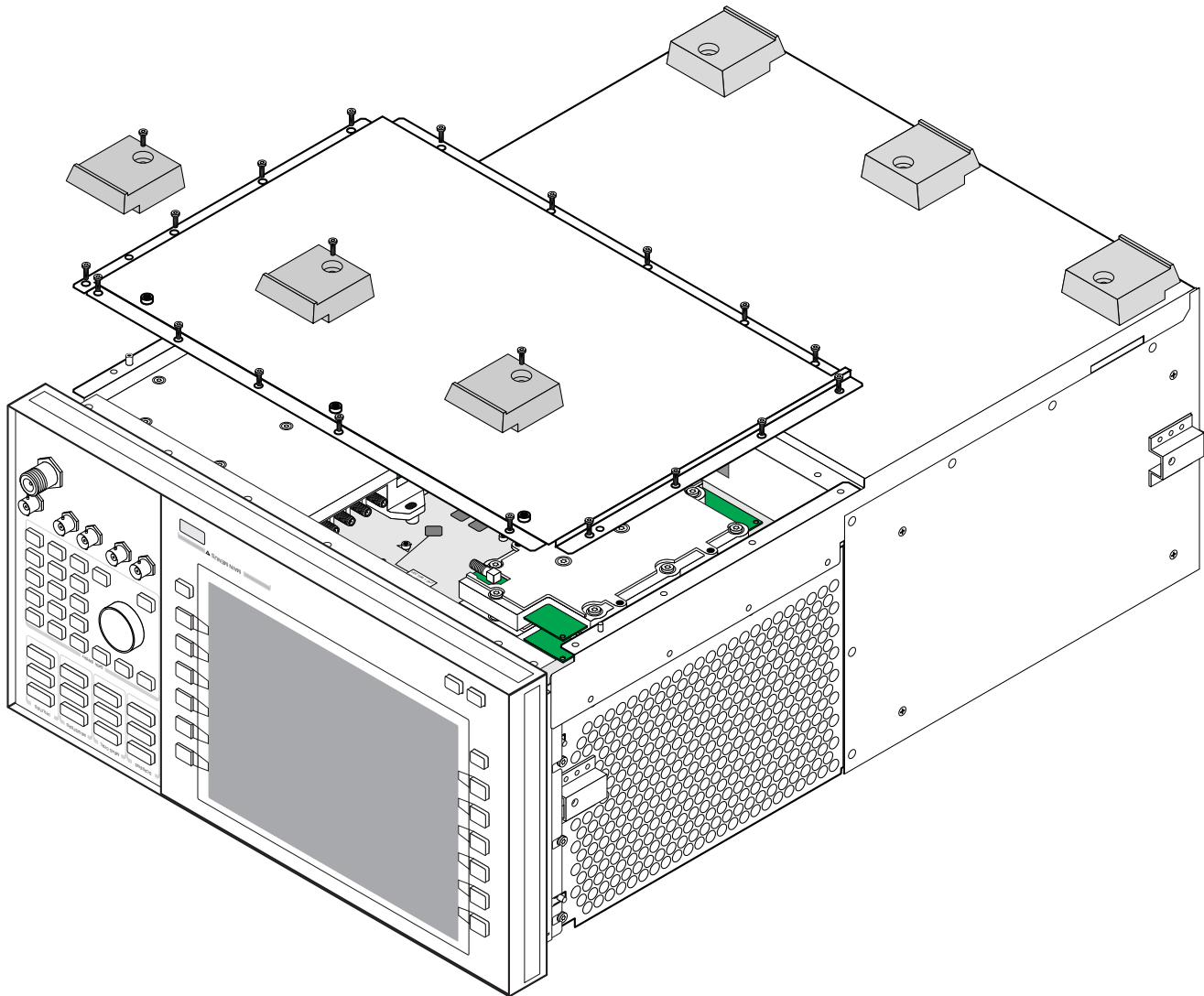
**Figure 6** **ADC\_BOARD Assembly**



## Internal Bottom Cover

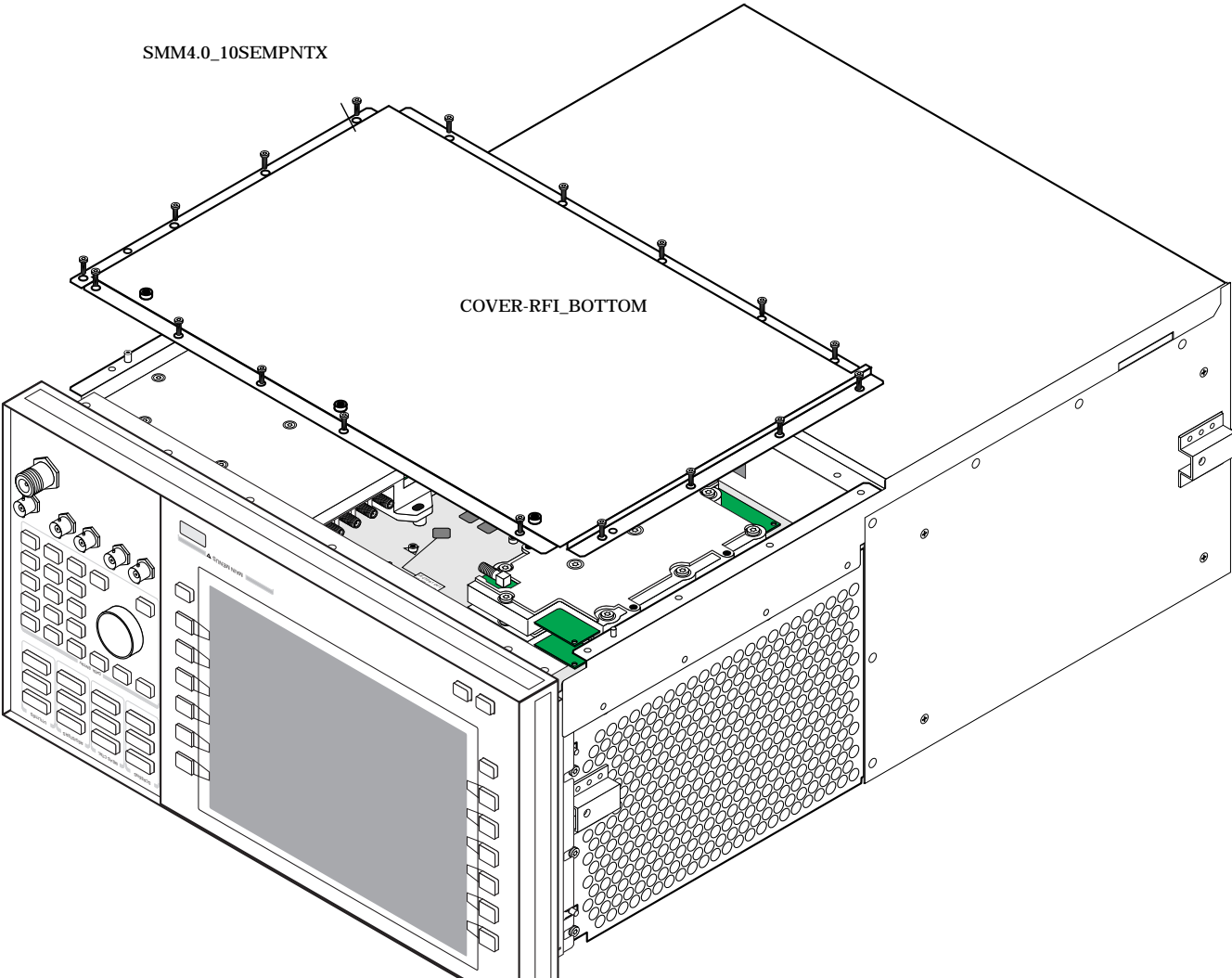
1. Remove the test set's external cover, see [“External Cover”](#) on page 2.
2. Removal of the top internal cover is not necessary. Turn the test set over and remove the screws securing the bottom internal cover, see [figure 7](#) (it is not necessary to remove the 3 forward feet from the bottom cover to remove the cover).
3. Lift the cover from the chassis.

**Figure 7** Internal Bottom Cover (E5515A)



svc\_btmcover\_removal.eps

**Figure 8 Internal Bottom Cover (E5515B/T)**

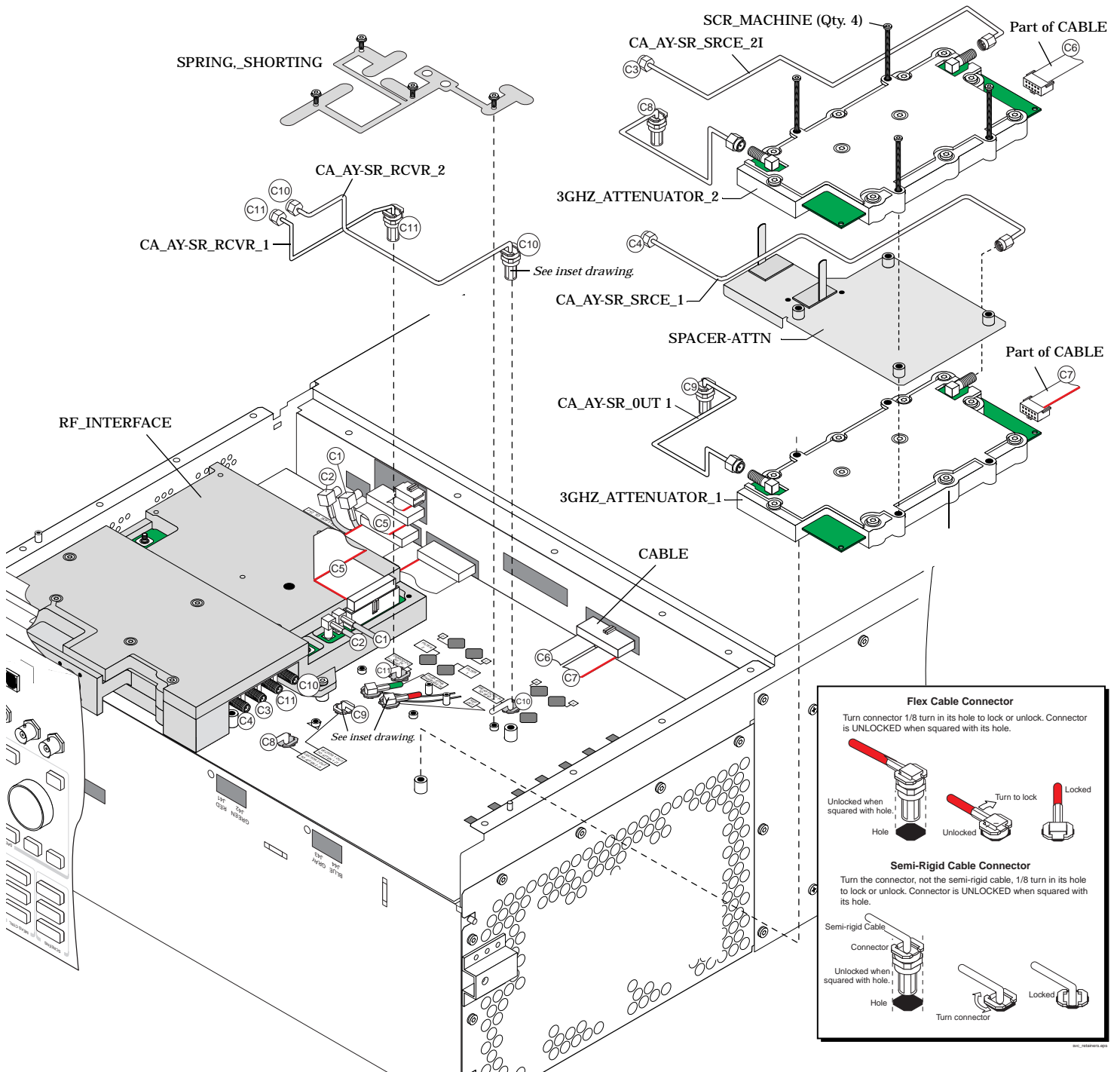




### 3GHZ\_ATTENUATOR and Other Assemblies

1. Remove the bottom internal cover, see “Internal Bottom Cover” on page 7.
2. Refer to figure 9 to remove the 3GHZ\_ATTENUATOR (1 or 2) or other assemblies or components.

**Figure 9** 3GHZ\_ATTENUATOR and Other Assemblies



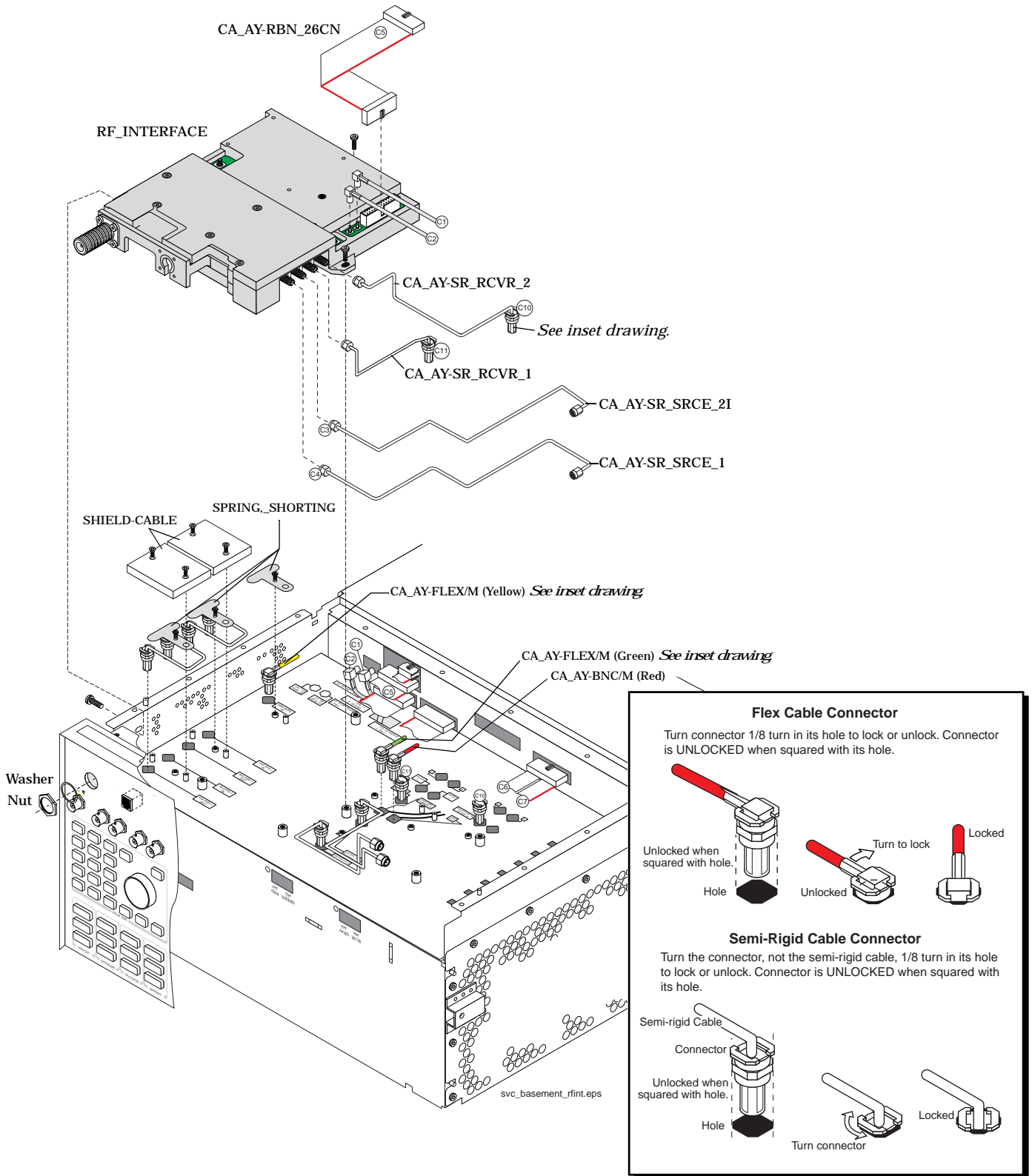
## **RF\_INTERFACE and Other Assemblies**

1. Remove the bottom internal cover, see [“Internal Bottom Cover” on page 7](#).
2. Disconnect the ribbon and semi-rigid cable connections to the RF\_INTERFACE assembly, see [figure 10 on page 11](#).
3. Remove the front-panel nut securing the RF\_INTERFACE assembly, see [figure 10](#).
4. Remove the 3 screws securing the assembly (1 screw is located on the side of the test set) and lift the RF\_INTERFACE assembly.

See [figure 10](#) to view the components located under the RF\_INTERFACE assembly.

Figure 10

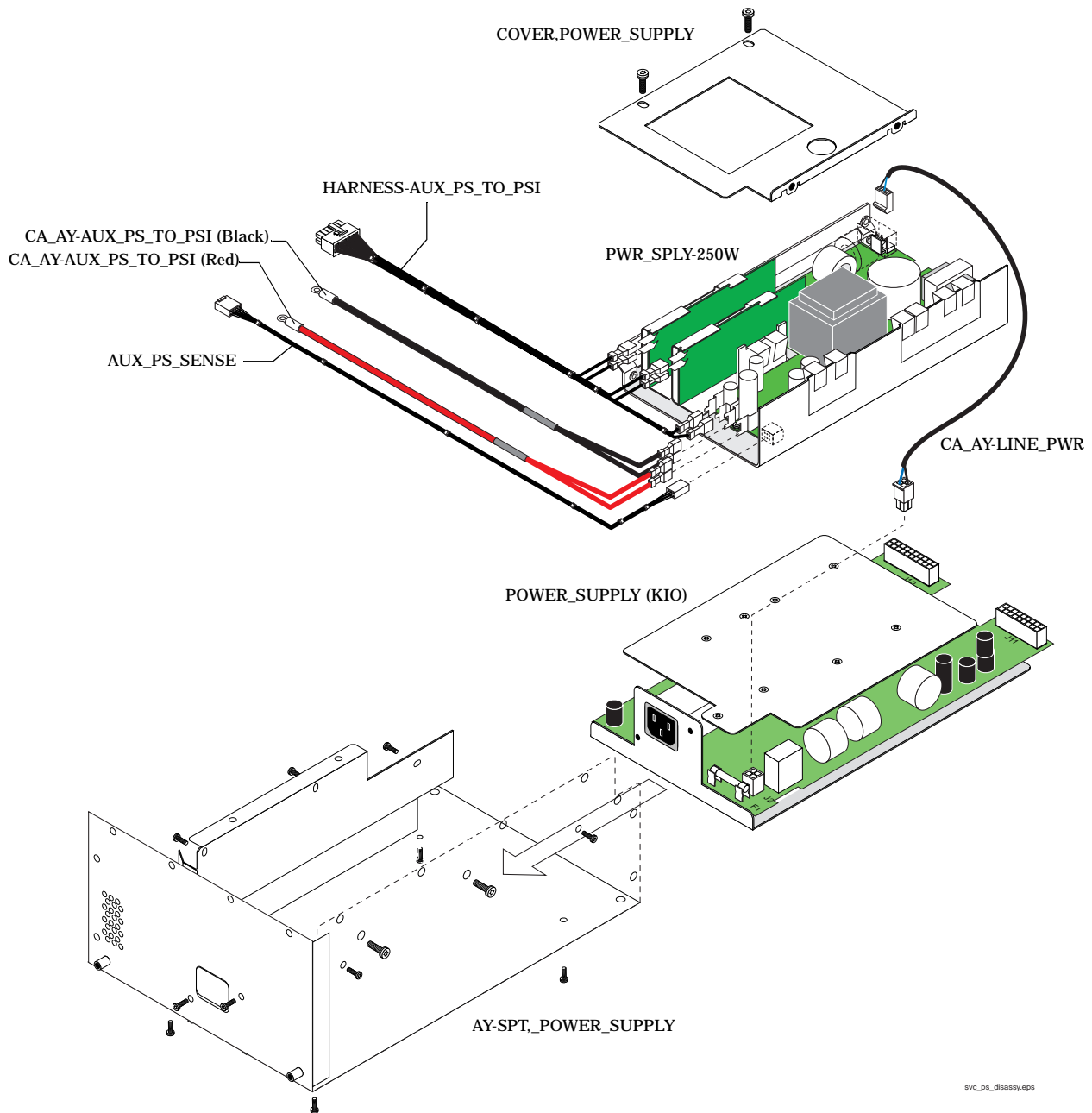
RF\_INTERFACE and Other Assemblies



## Power Supply Subassemblies

1. Remove the top internal covers, see “[Internal Top Cover](#)” on page 4.
2. Remove the screws securing the power supply assembly to the test set, see [figure 3](#) on page 4.
3. Disconnect the connectors between the power supply assembly and the POWER\_SUPPLY\_INTERFACE assembly, see [figure 3](#), [figure 11](#), and [figure 12](#).
4. Refer to [figure 11](#) for the removal of power supply subassemblies.

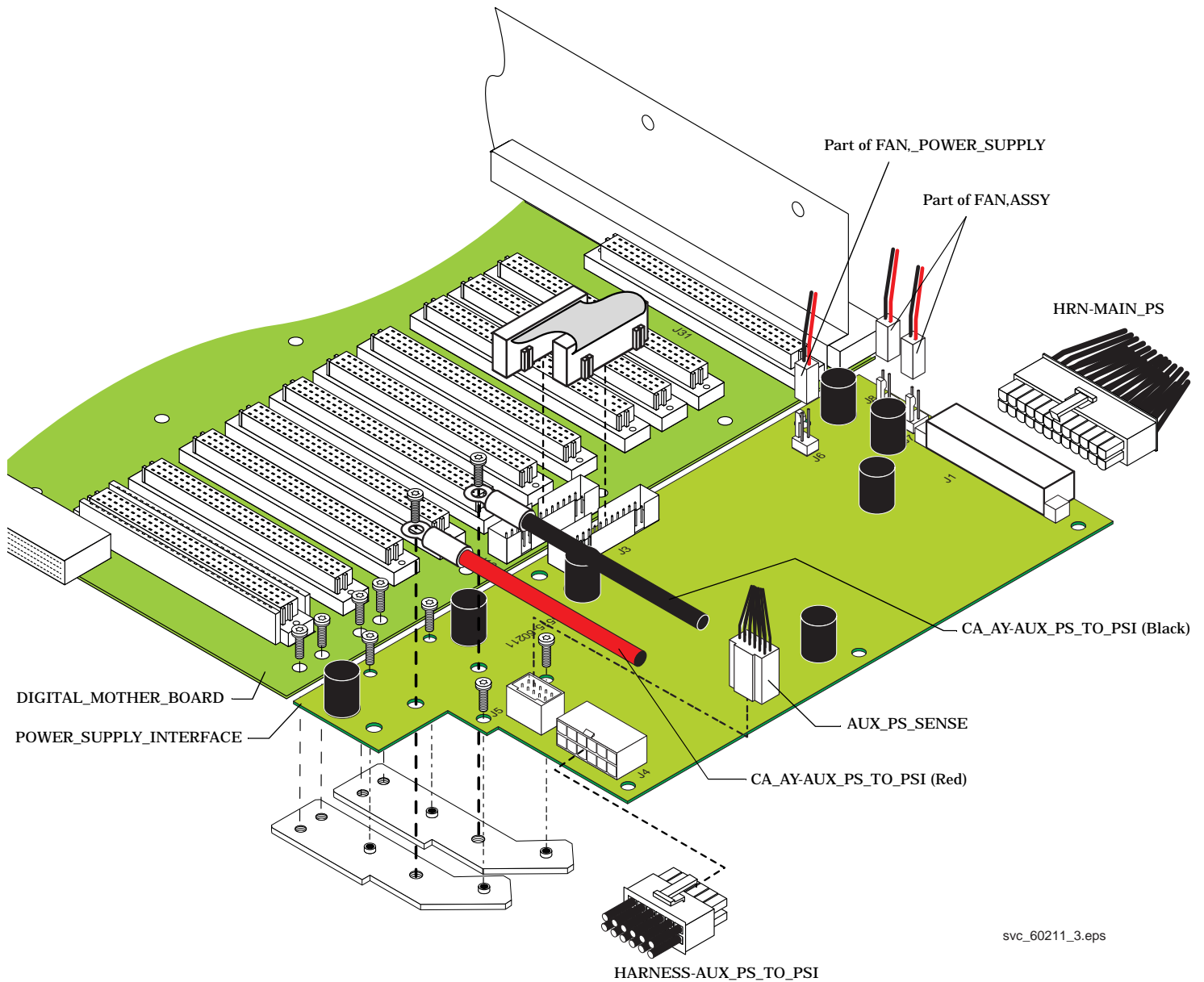
**Figure 11** Power Supply Subassemblies



## POWER\_SUPPLY\_INTERFACE Assembly

1. Remove the top internal cover, see “Internal Top Cover” on page 4.
2. Remove the power supply assembly from the test set, see figure 3 on page 4.
3. Remove the cables and screws on the POWER\_SUPPLY\_INTERFACE assembly as shown in figure 12.

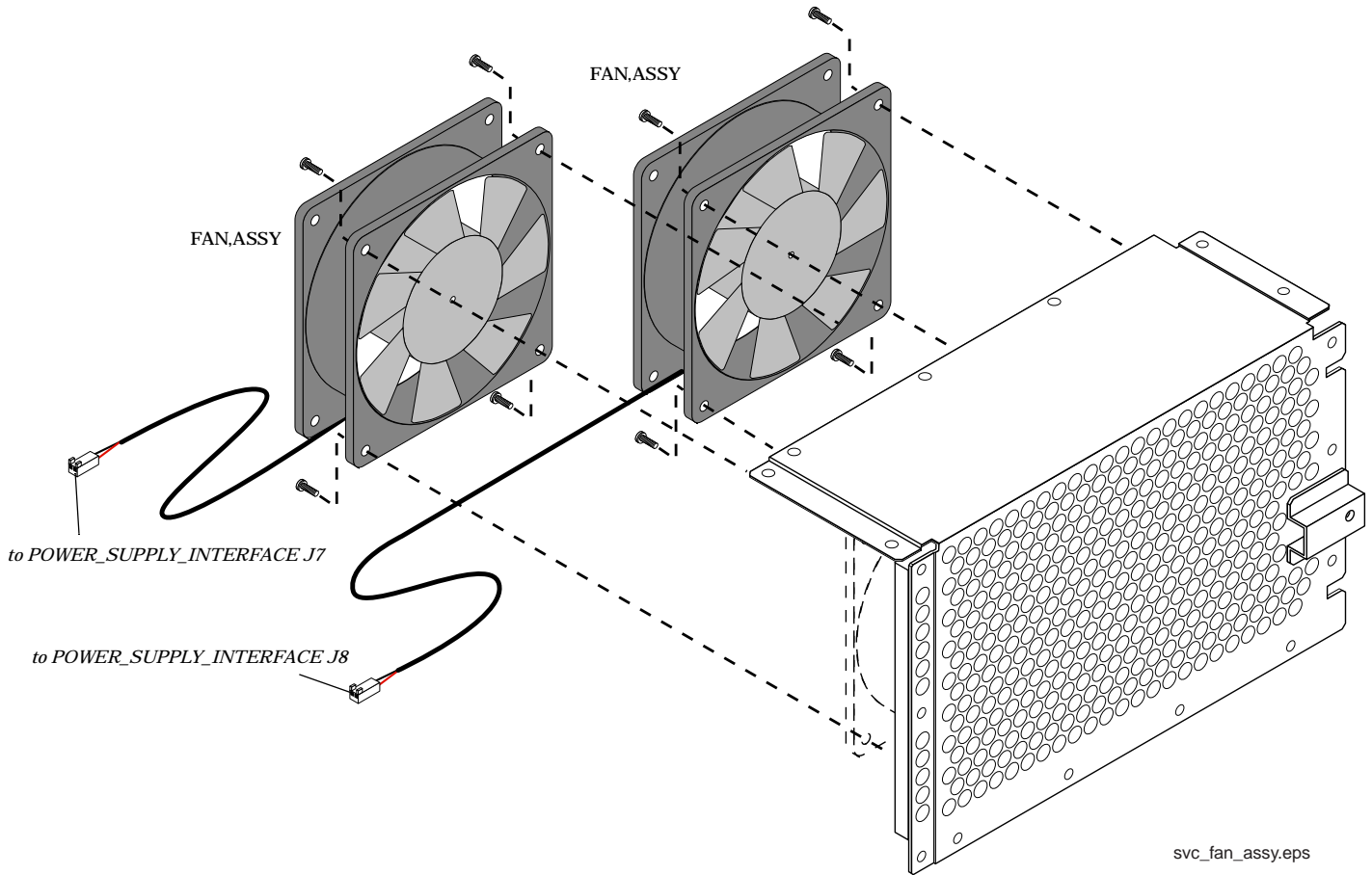
**Figure 12** Power Supply Interface Assembly



## Fan Assemblies

1. Remove the top internal cover, see [“Internal Top Cover” on page 4](#).
2. Remove the power supply and fan assemblies from the test set, see [figure 3 on page 4](#).
3. Refer to [figure 13](#) to remove the fan assemblies.

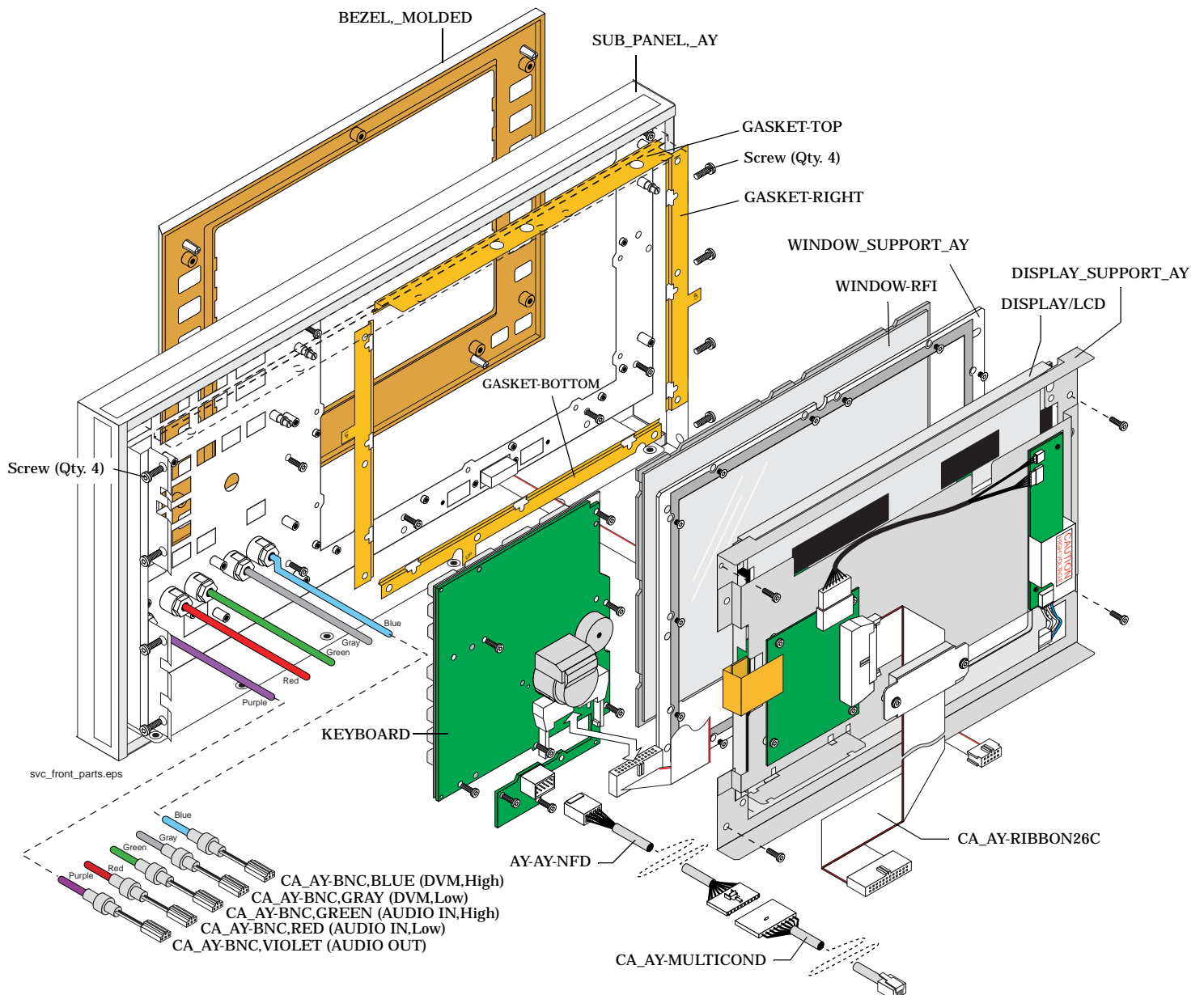
**Figure 13** Fan Assemblies



## Front Panel Assemblies

1. Remove the top and bottom internal covers, see “Internal Top Cover” on page 4 and “Internal Bottom Cover” on page 7.
2. Remove the front-panel assembly from the test set by removing the 8 side screws (4 on each side) securing the sub-panel frame (SUB\_PANEL,\_AY) to the test set, see figure 14.
3. For front-panel subassembly removal see figure 14, figure 15, figure 16 (display subassemblies), figure 17 (display’s bulb replacement), and figure 18 (keyboard assemblies).

**Figure 14** Front Panel Assemblies, Rear View



**Figure 15** **Front Panel Assemblies, Front View**

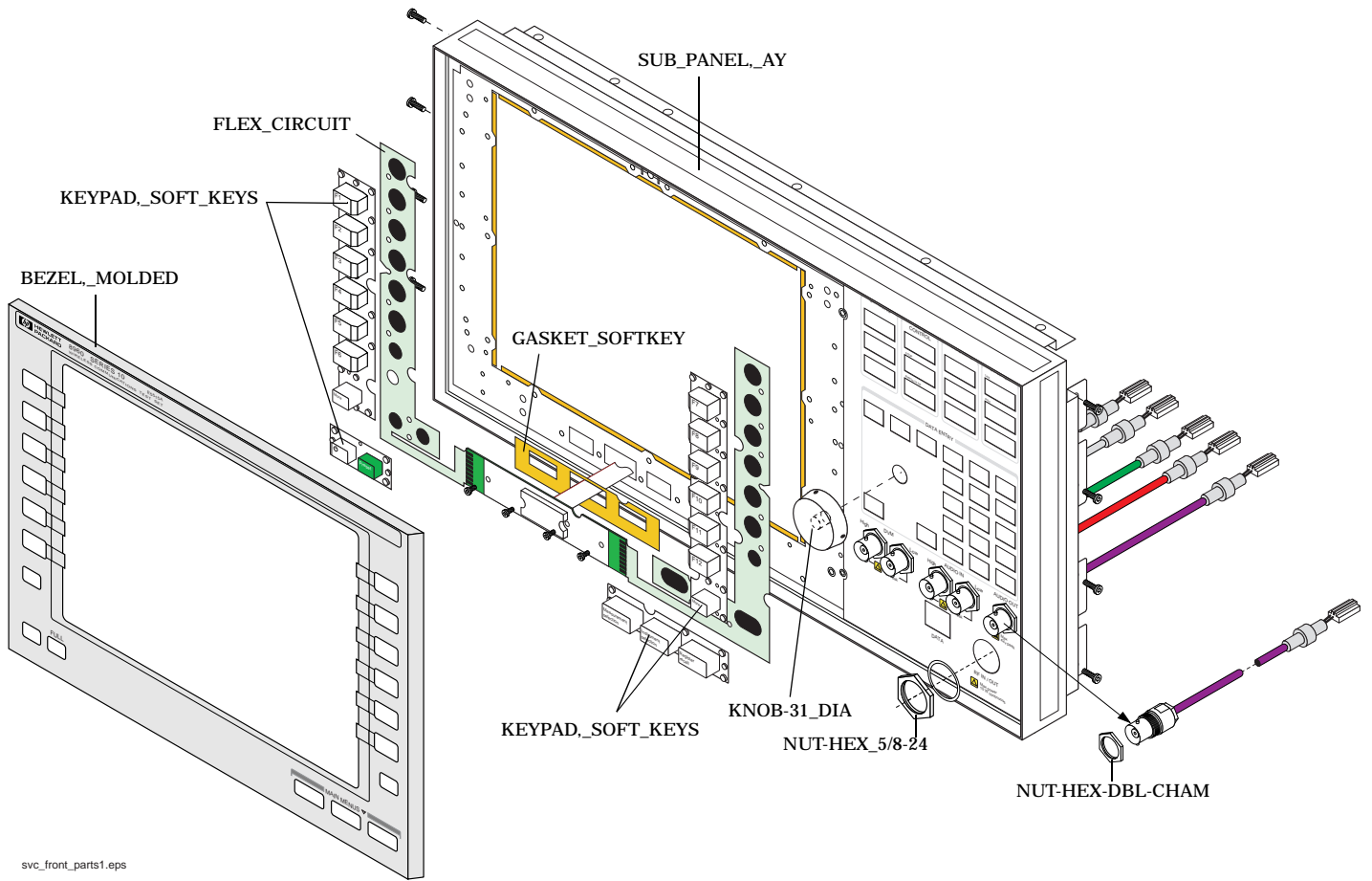
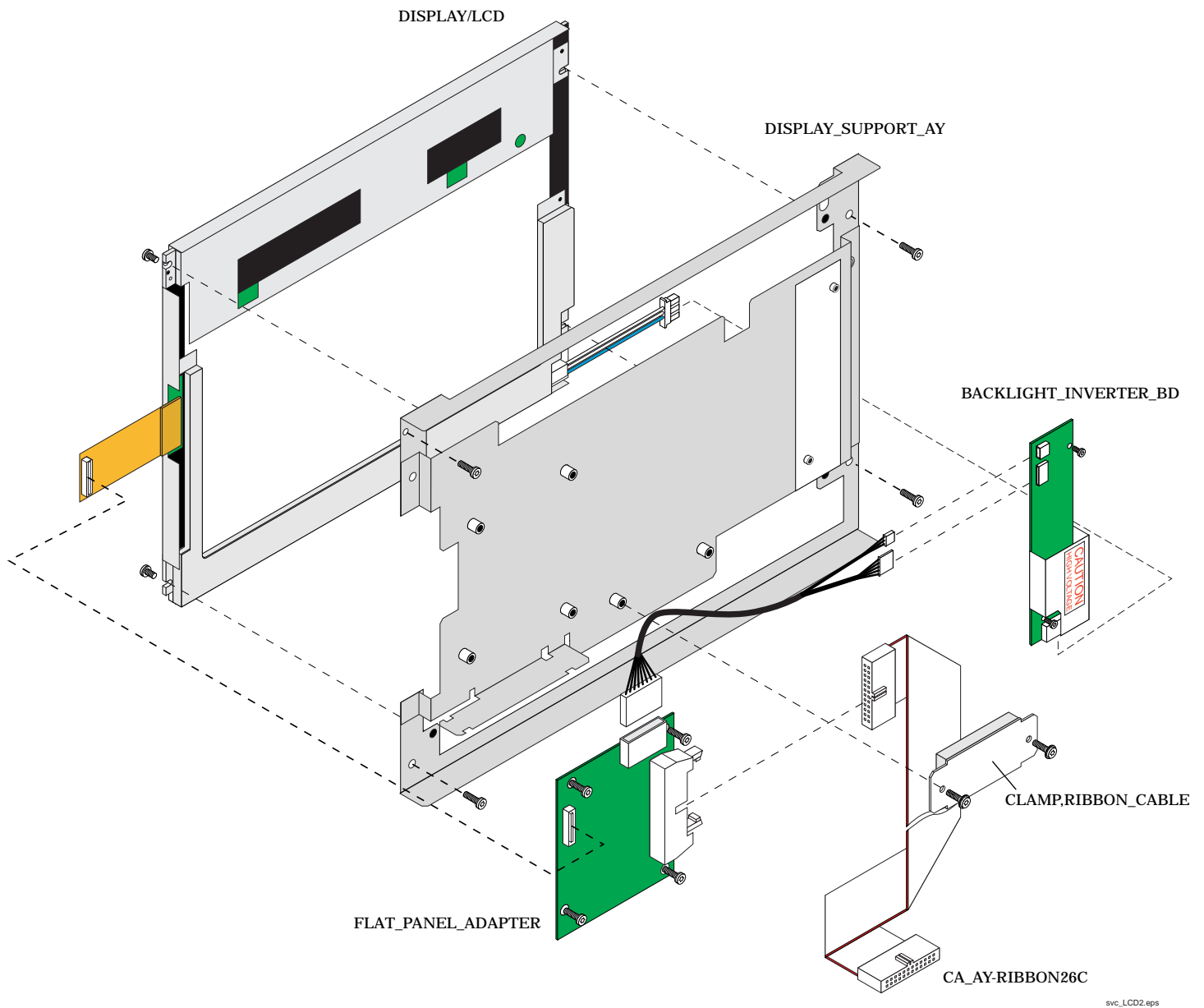




Figure 16

Display Subassemblies



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**Figure 17**                      **Display's Bulb Replacement**

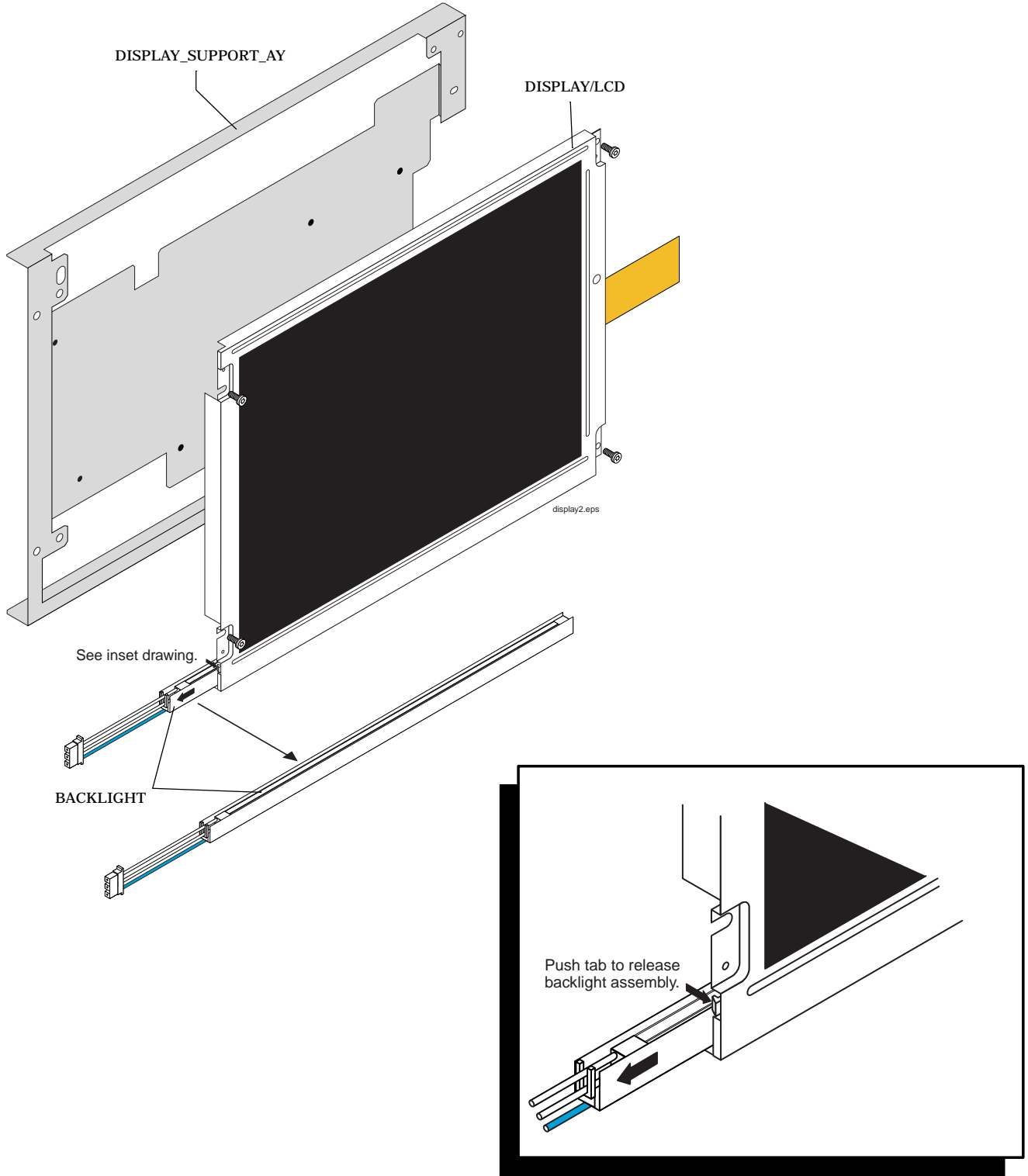
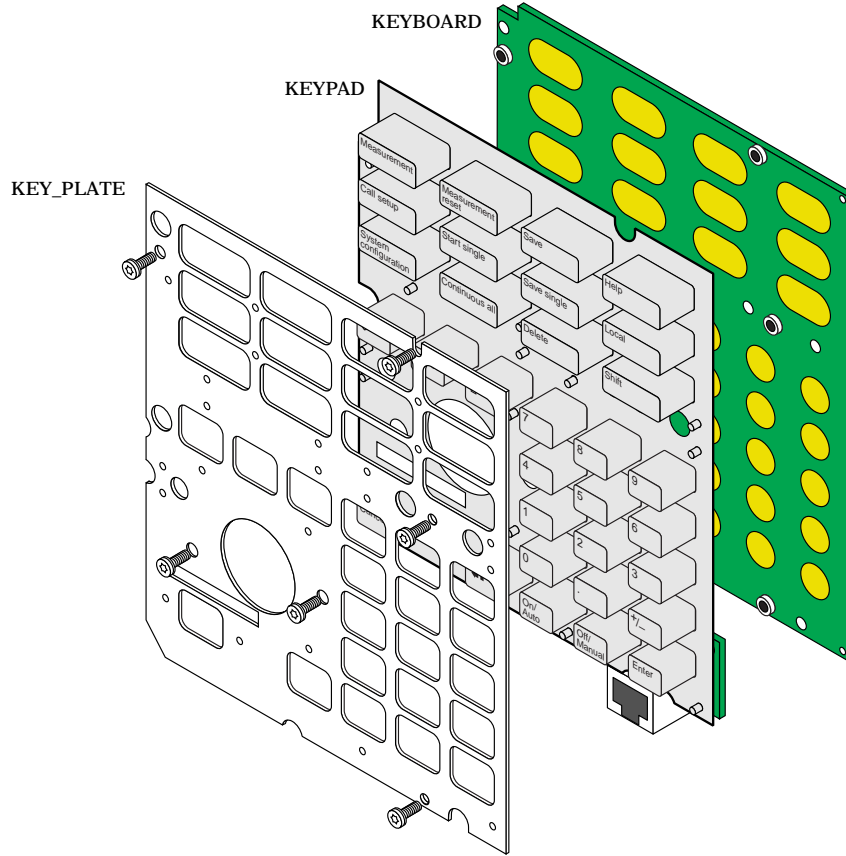


Figure 18

Keypad Assemblies



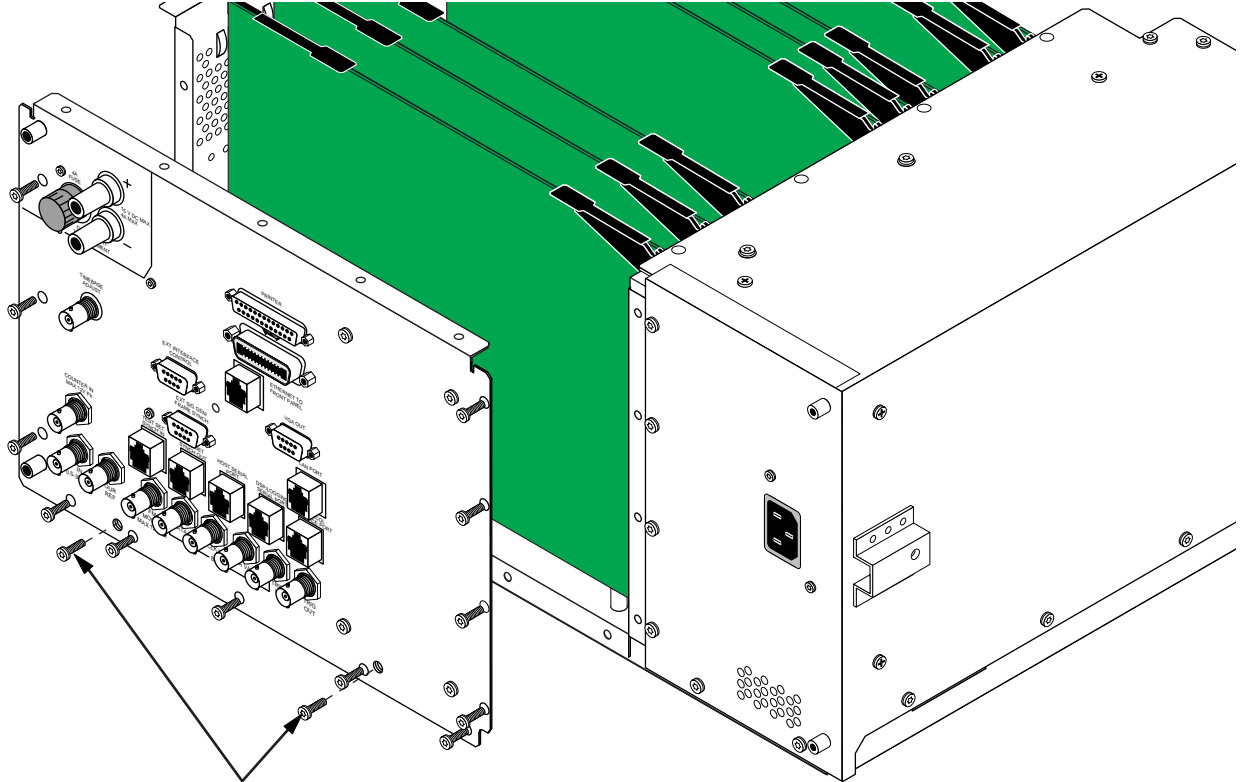
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## Rear Panel Assemblies

1. Remove the top internal cover, see [“Internal Top Cover”](#) on page 4.
2. Remove the screws securing the rear panel to the test set, see [figure 19](#).
3. Insert 2 screws into the thread holes shown in [figure 19](#) and alternately turn the screws to pry the rear panel from the digital motherboard.
4. Refer to [figure 20](#) for subassembly removal.

**Figure 19**

### Rear Panel Removal

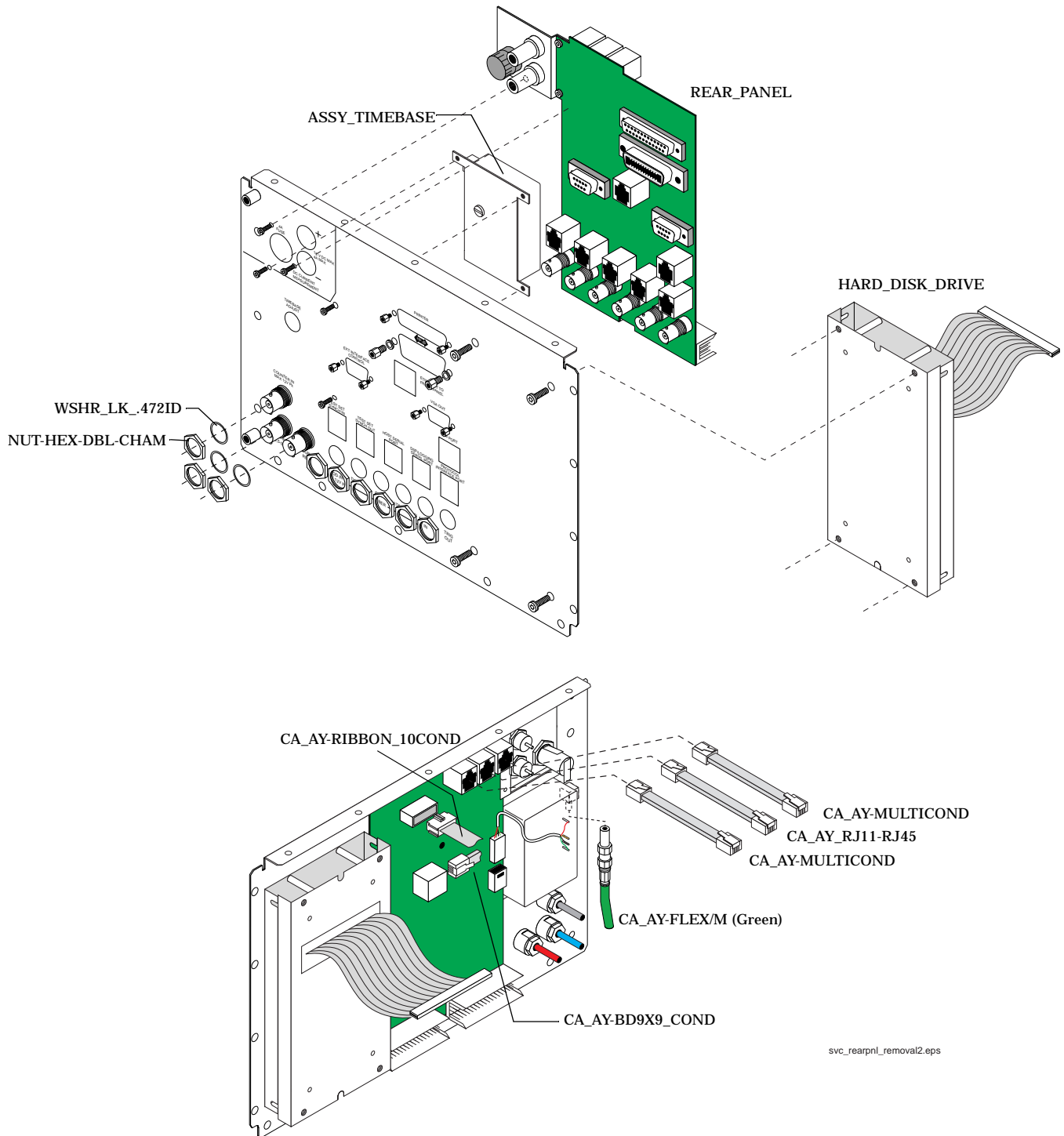


To remove rear panel, insert two screws into the threaded holes on the rear panel as shown. Alternate turning the screws to disconnect the connectors between the rear panel and digital motherboard.

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Figure 20

Rear Panel Subassemblies



## RF Motherboard Removal

1. Remove the top and bottom internal covers, see “[Internal Top Cover](#)” on page 4 and “[Internal Bottom Cover](#)” on page 7.
2. Remove all the RF modules and board assemblies from the test set.
3. Remove the power-supply assembly, see “[POWER\\_SUPPLY\\_INTERFACE Assembly](#)” on page 13.
4. Remove the fan assembly, see “[Fan Assemblies](#)” on page 14.
5. Remove the front-panel assembly, see “[Front Panel Assemblies](#)” on page 15.
6. Remove the semi-rigid cables on the bottom of the test set, see [figure 9 on page 9](#) and [figure 10 on page 11](#).
7. Remove the screws and cables on the RF motherboard (RF\_MOTHER\_BOARD), see [figure 21](#).
8. Refer to [figure 22](#) for additional instructions on removing the RF motherboard.

**Figure 21** Digital and RF Motherboards, and Jumper Board

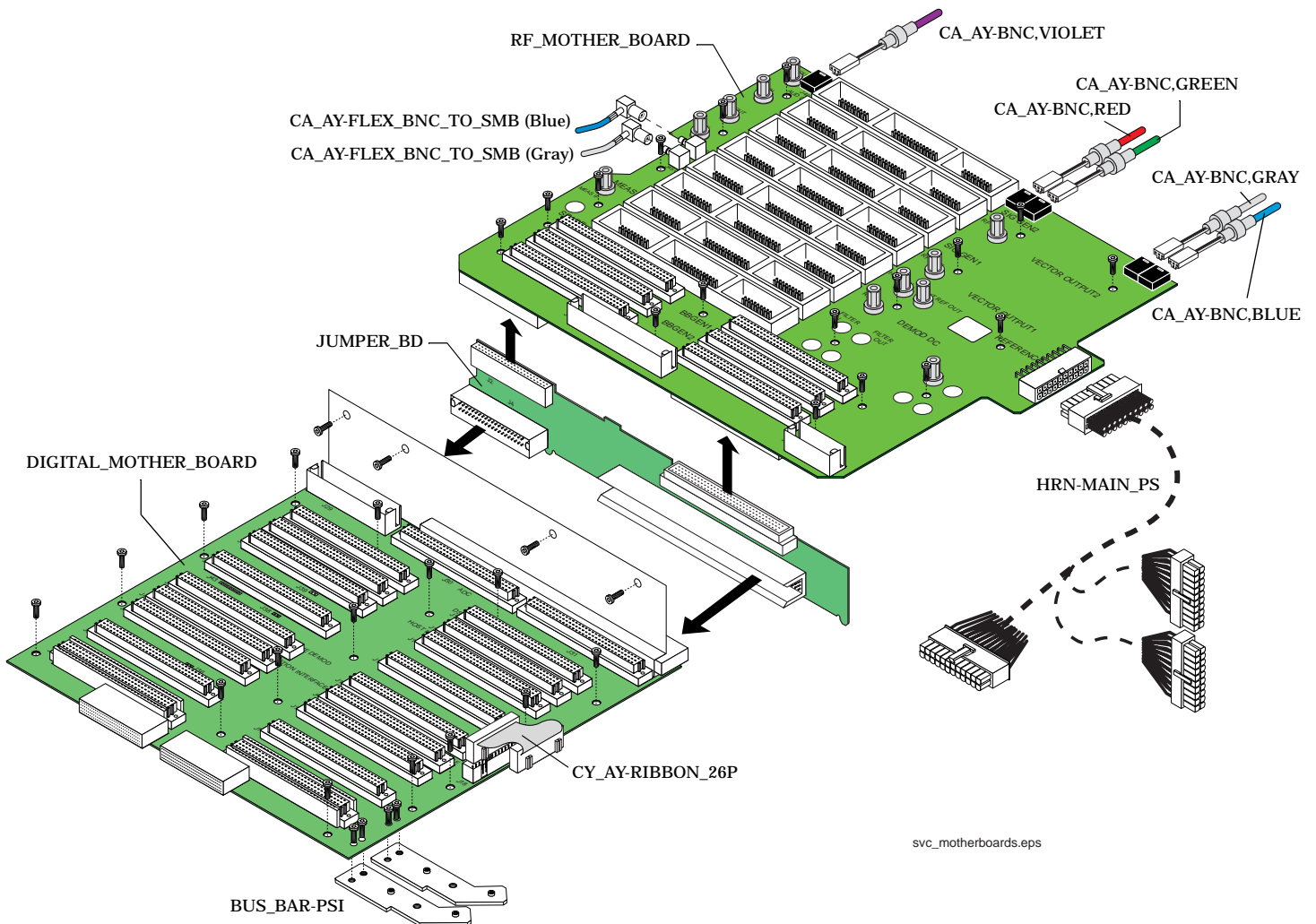
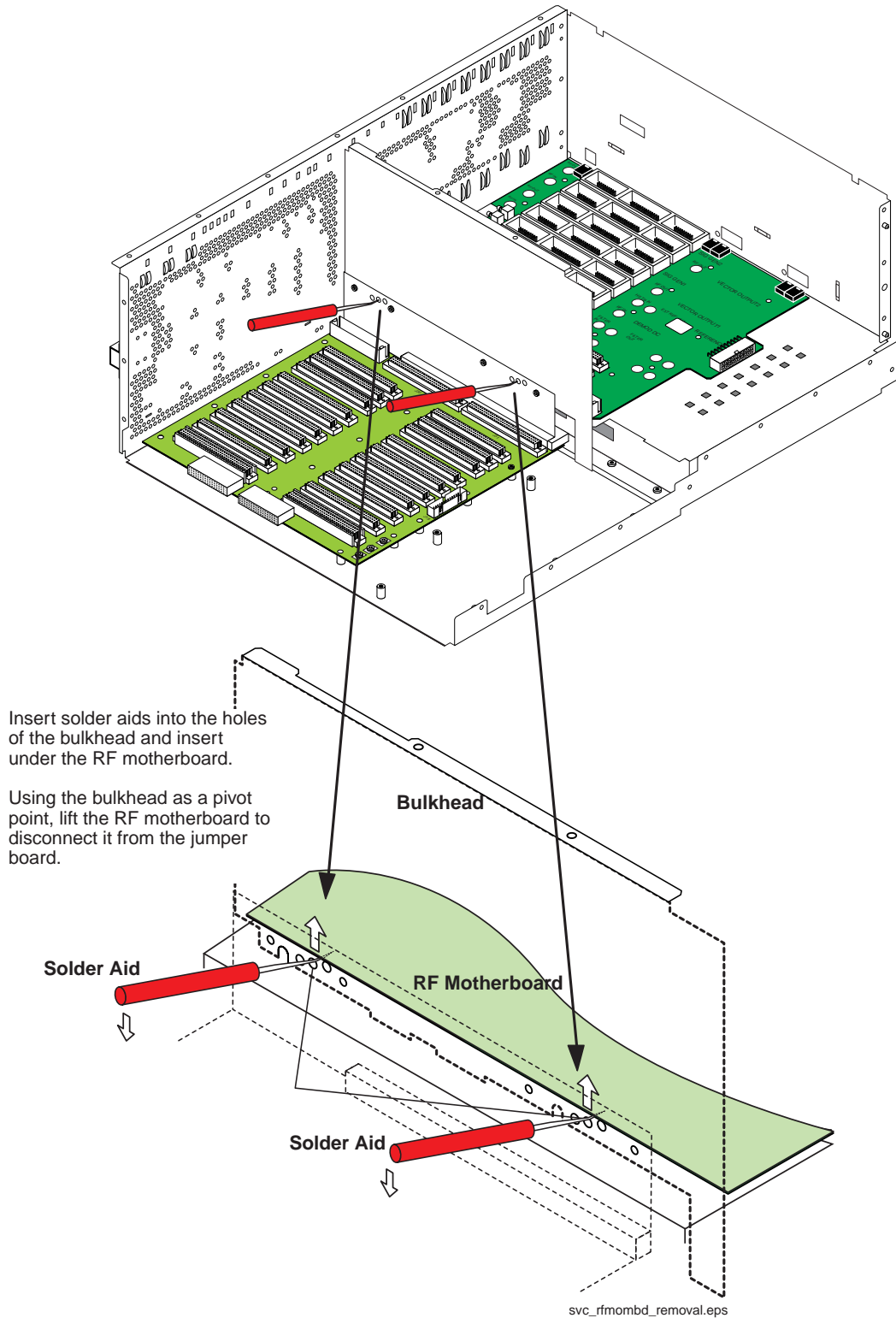


Figure 22

RF Motherboard Removal

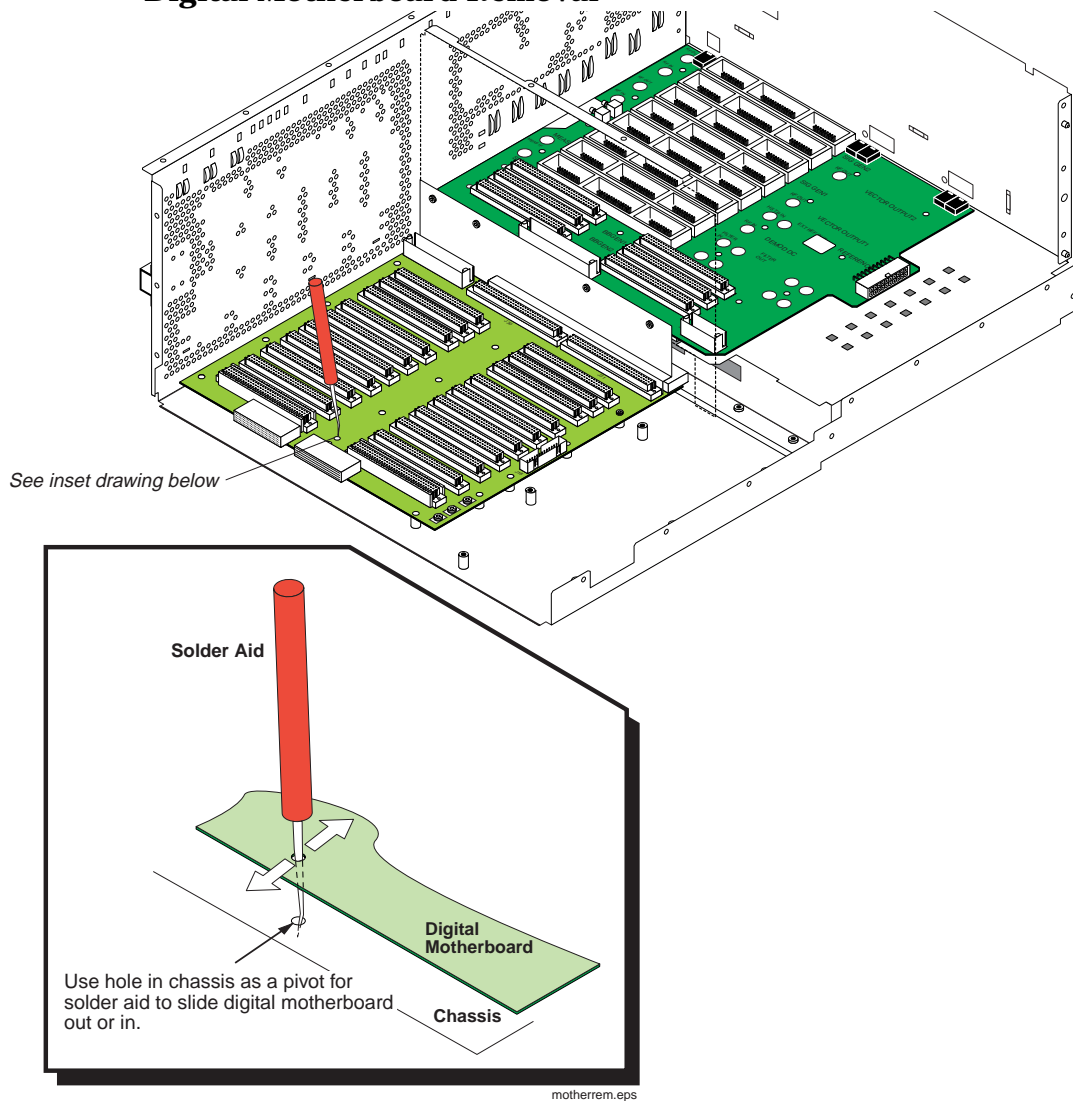


## Digital Motherboard Removal

1. Remove the top and bottom internal covers, see “[Internal Top Cover](#)” on page 4 and “[Internal Bottom Cover](#)” on page 7.
2. Remove all the digital-board assemblies from the test set.
3. Remove the power-supply assembly, see “[POWER\\_SUPPLY\\_INTERFACE Assembly](#)” on page 13.
4. Remove the screws and cables on the digital motherboard (DIGITAL\_MOTHER\_BOARD), see [figure 21](#).
5. Refer to [figure 23](#) for additional instructions on removing the RF motherboard.

**Figure 23**

### Digital Motherboard Removal





## Jumper Board Removal

1. Remove the top and bottom internal covers, see “Internal Top Cover” on page 4 and “Internal Bottom Cover” on page 7.
2. Remove all the RF modules and board assemblies from the test set.
3. Remove the power-supply assembly, see “POWER\_SUPPLY\_INTERFACE Assembly” on page 13.
4. Remove the fan assembly, see “Fan Assemblies” on page 14.
5. Remove the front-panel assembly, see “Front Panel Assemblies” on page 15.
6. Remove the semi-rigid cables on the bottom of the test set, see figure 9 on page 9 and figure 10 on page 11.
7. Remove the screws and cables on the RF motherboard (RF\_MOTHER\_BOARD), see figure 21 on page 22.
8. Remove the digital motherboard (DIGITAL\_MOTHER\_BOARD), see figure 23 on page 24.
9. Using a solder aid, remove the jumper board as shown in figure 24.

**Figure 24**

