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## Apple Workgroup Server 95 New PDS Card Bracket (3/94)

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### TOPIC -----

A new PDS card bracket has been designed for the Apple Workgroup Server (AWS) 95 PDS card, allowing the card to sit more securely inside the AWS 95. This bracket was designed to prevent the PDS card from coming loose (out of the socket) after some period of use, which can cause system failure. Manufacturing is installing the bracket on all new PDS cards.

Symptoms: AWS 95 system will randomly crash and/or fail to boot up properly after restart.

### DISCUSSION -----

All PDS cards currently in service inventory have been upgraded to include the new PDS bracket. If you encounter a PDS card without a bracket, please order the PDS bracket kit. The PDS bracket kit can be obtained by ordering Apple part number 076-0129.

Before installing the bracket, follow the instructions described below. This procedure will ensure that the AWS 95 power supply harness does not interfere with the installed PDS card.

### AWS 95 PDS Card Bracket Upgrade Instructions

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- 1) Follow the preventive measures to avoid ESD damage. When you unwrap, install, or replace modules, observe the appropriate ESD precautions. For complete ESD prevention information, refer to the ESD Prevention Rules in the SERVICE SOURCE CD-ROM.

If the proper ESD procedures are not available, then do the following: Turn off the power and disconnect the power cord. After removing the cover and before going near the logic board, touch the metal of the power supply case.

- 2) Disconnect the AWS 95 power supply cable harness from the logic board and twist it 2 to 3 turns.

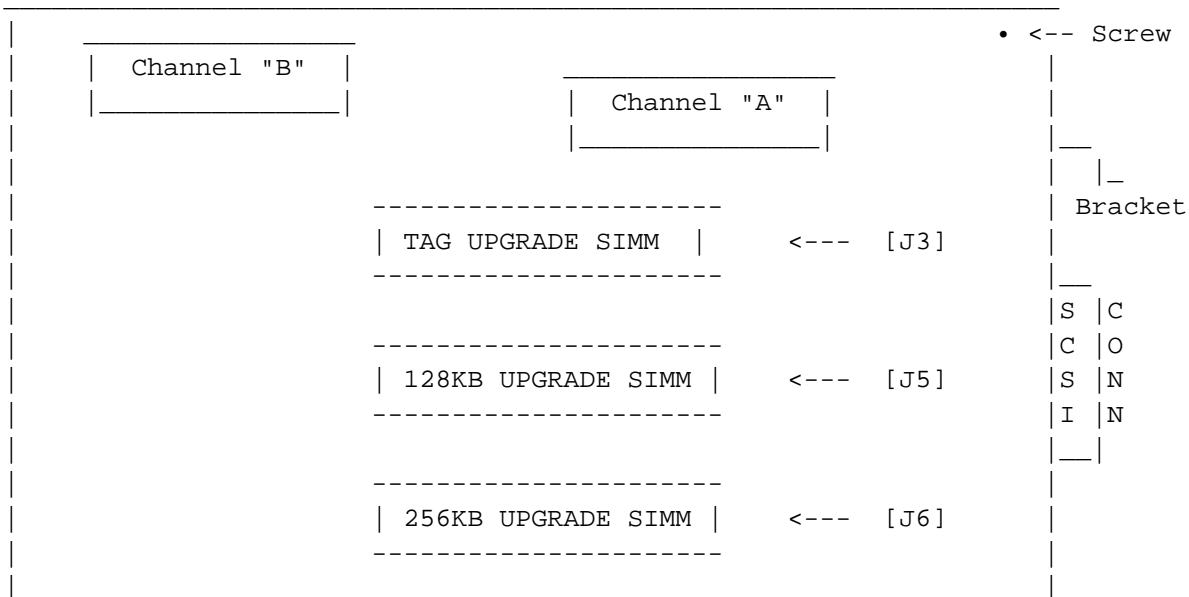
- 3) Reinsert the power supply harness cable assembly back into the logic board; this will provide for about 1/2" of clearance between this cable and the PDS card.
- 4) Insure that the L2 cache SIMMs on the PDS card are properly seated in their sockets.

Attaching The Bracket To The PDS Card  
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Following are the instructions to install the AWS 95 PDS card bracket to the PDS card assembly:

- 1) After following the preventive measures to avoid ESD damage, remove the PDS card from the AWS 95 PDS socket.
- 2) Position the PDS card so that the component side is facing you with the external SCSI connector positioned to your right.
- 3) Locate the tooling hole on the top right corner of the PDS card.
- 4) Place the flange and mounting hole of the bracket to the backside of the PCB (see Figure 1). The mounting screw will pass through the PCB and thread through the bracket. The main folds of the bracket should be facing toward the existing DB-25 SCSI connector.
- 5) Install the 3x6 mm screw.

Figure 1. Apple Workgroup Server 95 PDS Card



Installing The PDS Card With Bracket Into A System  
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- 1) Insert the connector on the PDS card into the PDS connector on the main logic board. Press down gently on the card to seat it in the connector.
- 2) Press the metal bracket toward the card and downward, until the flap on the bracket slides into the slot between the plastic and metal portions of the rear panel assembly just above the expansion slot.
- 3) Press down again on the PDS card to ensure that it is firmly seated in the PDS connector.
- 4) Plug the ribbon cable 50-pin connector (from the hard-disk drive bay) into the Channel B SCSI connector on the PDS card. Fit the ribbon cable under the cable-guide tabs to anchor it to the card.
- 5) Reboot the system. The AWS 95 will startup and return to normal operation.

#### Removing PDS Card With Bracket From A System

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- 1) After following the preventive measures to avoid ESD damage, disconnect the ribbon cable from the card.
  - 2) Hold the upper inner corner of the PDS card and pull upward at an angle to release the card from the PDS connector on the main logic board.
  - 3) Pull the card away from the expansion slot so that the bracket slides free from the rear panel assembly.

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