IN Server

Hard Disk Drive Replacement

Procedure Guide

Document No. 954 702-00a

© 1998, Harris Corporation
Communications Products Division
Printed in the U.S.A.

HARRIS Communications

IN Server Hard Disk Drive Replacement Procedure Guide

This procedure includes:

A. Removing the Bracket Assembly (if applicable)
B. Removing the Old Hard Disk Drive
C. Installing the New Hard Disk Drive

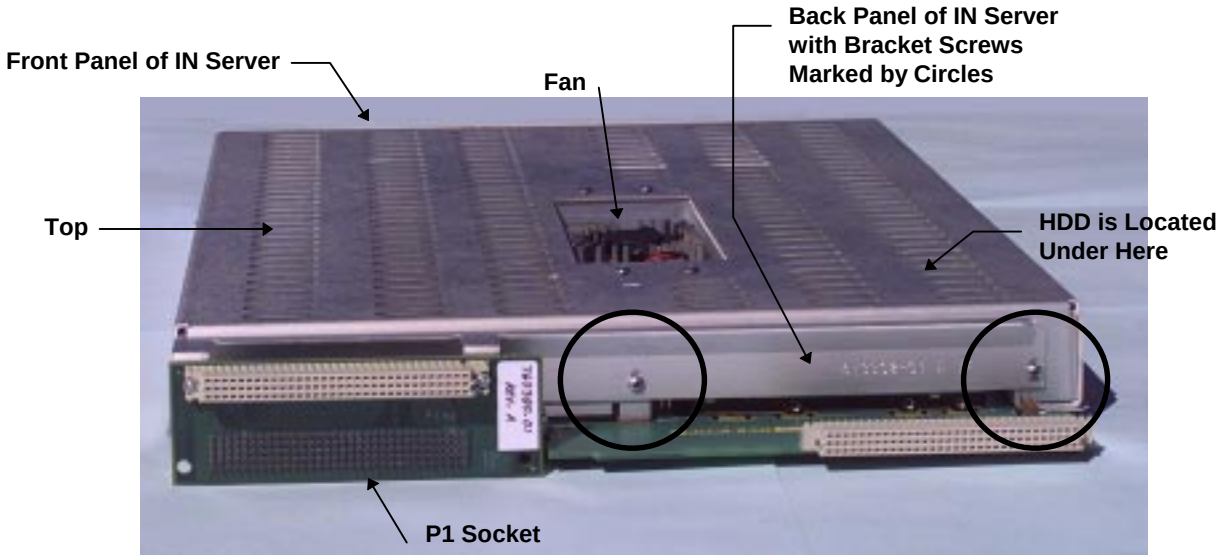
WARNING

Use ESD straps or any other means of electrostatic grounding whenever handling a unit.

A. Removing the Bracket Assembly

Note This bracket contains subplane 765 375 with MAP and IntelliCom/IXP 2000 systems, or subplane 765 380 with LH or LX systems.

1. Position the IN Server so the fan is exposed.



Note: If your unit has a back panel bracket assembly, note whether the two round-head Phillips screws (circled in the figure above) are at the top or bottom of the slot. They must be replaced in the same position when reattaching the bracket assembly.

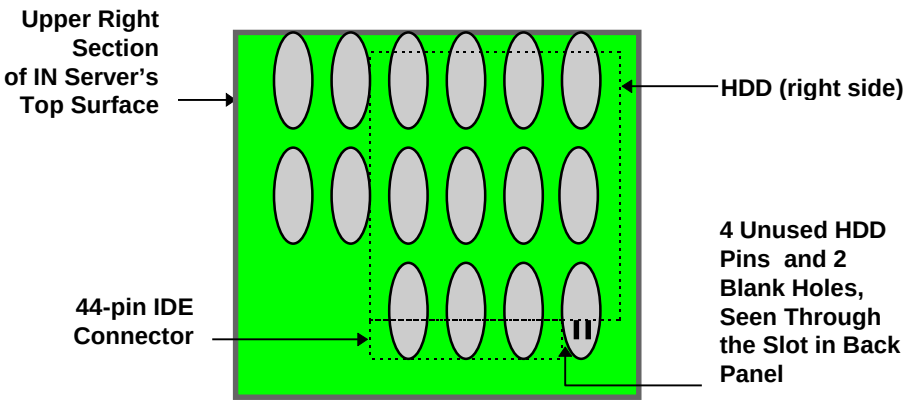
2. If applicable, remove the two round-head Phillips screws that secure the back panel bracket assembly to the IN Server.

3. Use a rocking motion to release the P1 socket from its 160-pin P4 plug, then lay the bracket assembly aside.

B. Removing the Old Hard Disk Drive

4. Turn the IN Server so that the front panel is facing left and the top surface (with the fan) is exposed.

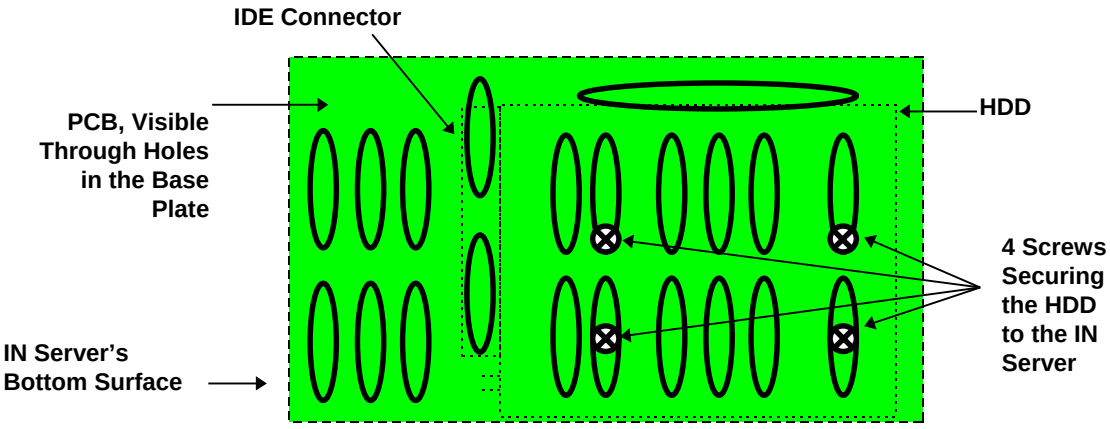
5. Look through the holes in the base plate to identify the HDD, the small 2 ¾" x 4" metal encased unit.



Note that the HDD is connected to the IDE-socket (not easily visible because of the base plate) through a 44-pin connector.

Note: The HDD has 50 pin positions, while the IDE connector has only 44. Because of this , there are *two blank holes* and *four unused pins* at the right end of the HDD. When connecting the new HDD at Step 13, be sure these pins and holes are still exposed.

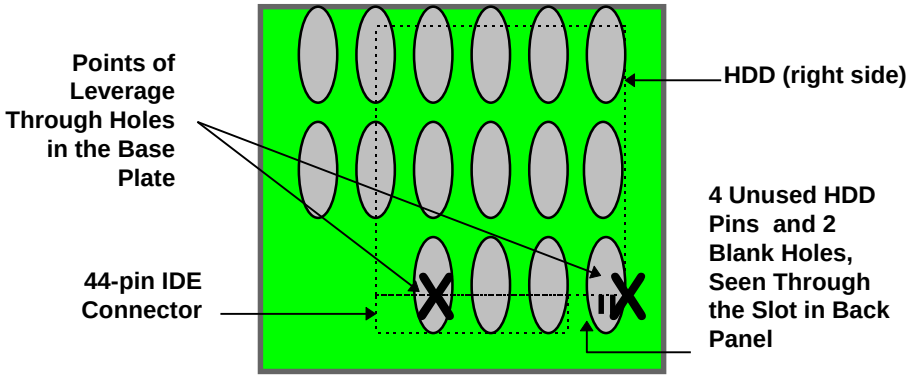
6. Turn the IN Server over so that the PCB is on top and clearly visible through the holes on the base plate.



7. While gently supporting the HDD so it won't fall, remove the four round-head Phillips screws that secure the HDD to the PCB.

8. Still supporting the HDD, turn the IN Server over so that the fan is exposed and the front panel is facing left.

9. Use a non-conductive object that easily fits through the holes in the base plate (such as a pencil) to leverage the points indicated below and carefully pry the HDD out of the IDE connector:



10. Slide the HDD to where you can remove it through the slot on the back panel of the IN Server, then set it aside.

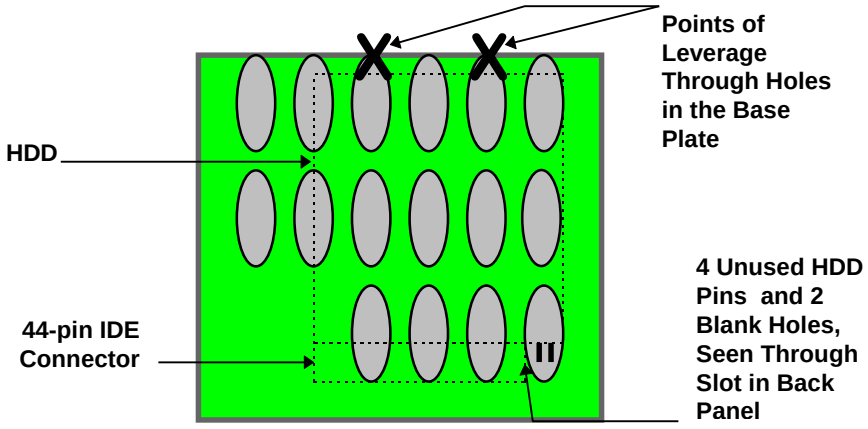
C. Installing the New Hard Disk Drive

WARNING

Handle the new HDD carefully; **do not push on its top or subject it to excessive hand pressure**.

11. Place the new HDD on the PCB and visually align the pins with the IDE connector, being sure that:
    - the HDD is resting flush against the PCB
    - the four pins and two blank holes, separated by a space at the right end of the HDD, are visible, that is, *not* inserted into the IDE connector.
    - there are *no* unconnected pins visible on the *left* side of the HDD.

12. Slide the new HDD down on to the connector, leveraging the points indicated to plug the HDD into the IDE connector:



13. While holding the HDD flush against the PCB, turn the IN Server over.

14. Still holding the HDD against the PCB, replace the four screws you removed in Step 6 and *lightly* tighten them to hold the new HDD in place on the PCB.

    Note: The following applies to each screw:
    - Once the screw head is flush to the PCB surface, turn the screw head 1/8th turn, just enough to secure the HDD.
    - *Do not overtighten the screw*.

15. Place the IN Server upright on its front panel.

16. Replace the back panel bracket assembly you removed in Step 3, refitting the P1 socket into the 160-pin P4 plug on the IN Server.

17. Secure the back panel bracket assembly to the IN Server by replacing the two round-head Phillips screws that you removed in Step 2.

This completes the HDD Replacement procedure for the IN Server.