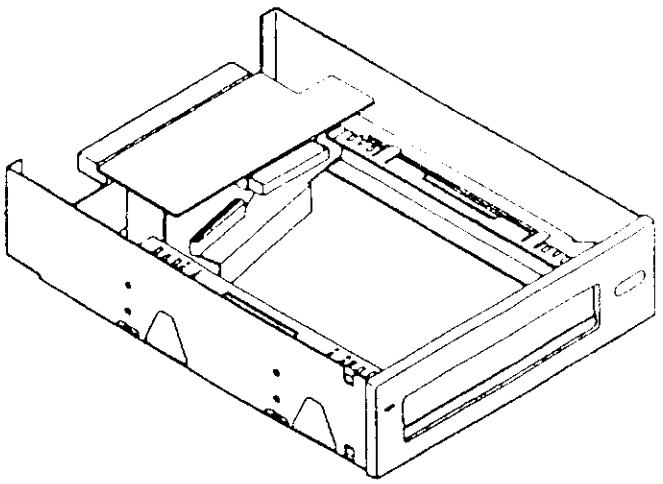
Model RH-312B
Docking Bay



INSTALLATION GUIDE

TEAC

10190470-00
Rev. A

Introduction

This guide deals with installing the RH-312B docking bay into a standard AT-compatible PC system. For details of installing and configuring the SD-3XXXN series drive please refer to the SD-3XXXN series installation guide.

Prior to Installation

Do not remove the drive or the docking bay from the shipping container and/or antistatic bag until you are ready to begin installation.

When handling the docking bay take care not to touch the connector or PCB without proper grounding.

Do not install the drive into the docking bay. Install the docking bay into the system first.

Please observe all warnings and cautions on the drive, in this guide and the SD-3XXXN series installation guide. Failure to do so could cause damage to the drive or your data.

Docking bay installation

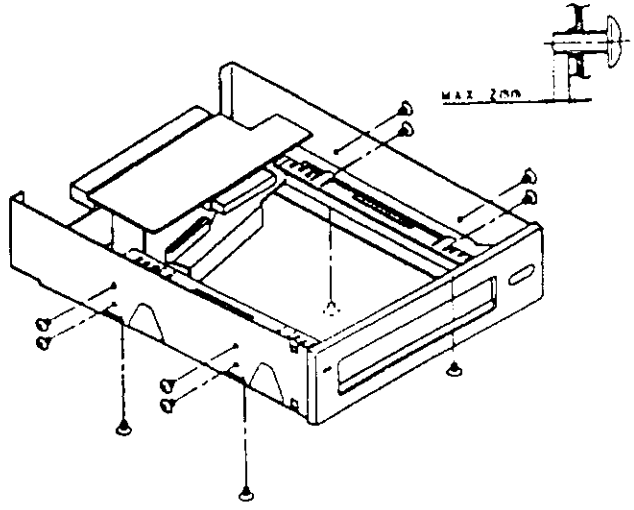
In order to connect the drive to the host adapter the RH-312B docking bay needs to be installed into a spare 5¼ " slot in your cabinet.

To protect against ESD damage do not fit the drive into the docking bay until after the bay has been installed into the system.

Ensure that power has been switched off and disconnected.

CAUTION
ALWAYS DISCONNECT POWER BEFORE INSERTING OR REMOVING THE DRIVE FROM THE DOCKING BAY

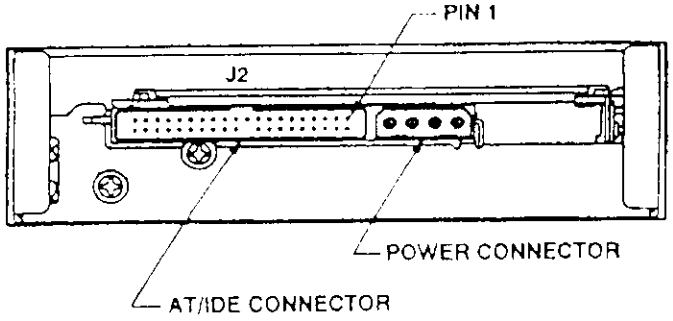
The docking bay is secured to the cabinet by four M3 screws supplied. Two screws are required on each side of the bay, mounting either on the side or from below. Connect the 40-pin AT/IDE from the host adapter/embedded adapter to the connector on the RH-312B docking bay (connector J2) and also a second drive if applicable (The order of the drives in the daisy chain is not important).
Most cables have a color strip along one edge indicating pin 1. Please ensure that this is oriented correctly for both pin 1 of the RH-312B docking bay and pin 1 of the host adapter (and other drive). Connect the 4-pin power connector from the system's PSU (power supply unit) to the power connector on the RH-312B docking bay.



CAUTION
PROTRUSION OF ANY SCREW FROM THE DOCKING BAY MUST NOT EXCEED 0.08 INCHES (2.0mm).

Some AT/IDE cables are not keyed to ensure correct orientation. Please ensure that you connect pin 1 of the AT/IDE cable (red strip) to pin 1 of the docking bay as shown below.

Once the docking bay is secured to the cabinet, the drive can be inserted and installed. See the drive installation guide for details of this procedure.



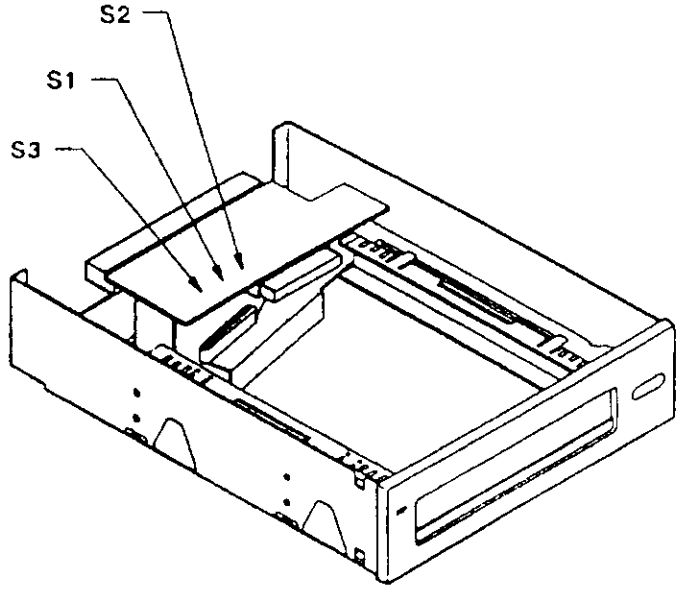
On the front of the docking bay there is a status LED to indicate the drive is active.

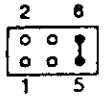
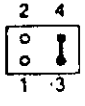
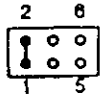
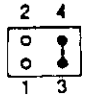
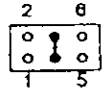
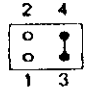
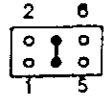
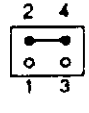
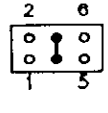
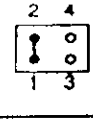
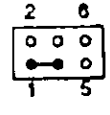
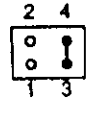
Drive Configuration

There are two kinds of drive configuration (master or slave) methods as follows.

A: Executing SDCONFIG.EXE in the attached DOS utility program.
B: Setting the short strap to pins S1 and S2 on the docking bay PCB. The drive is configured by the combination of the pins and the short strap.

Execute SDCONFIG.EXE to switch between method A and B. The SD-3XXXN series is shipped configured as method B. When you select method B, there is no need to execute the SDCONFIG.EXE program. According to the table on the next page, set the short strap where you desire. Please refer to the SD-3XXXN installation guide for details of the functions.
When you select method A, execute the SDCONFIG.EXE program. For details of SDCONFIG.EXE, please refer to the SD-3XXXN installation guide.

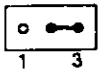
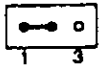


S1	S2	CONFIGU-RATION	FUNCTION
		MASTER	Drive becomes a Master (dual-drive) or a single.
		SLAVE	Drive becomes a Slave in a dual-drive system.
		DRIVE 0	Drive becomes the Master in a dual-drive system.
		CONNER SLAVE	Drive becomes a slave drive to Conner CP30104H or Xebec XE3100.
		RESERVED	
		CSEL	The Configuration is determined by the status of pin 28 on the IDE bus.

Configuration Table

Selection of VCM power supply voltage

Pin S3 on the Docking bay PCB is to select the voltage supplied to the VCM (Voice Coil Motor). When using SD-3250N or SD-3360N, please set the short strap to +5V, by referring to the table below.

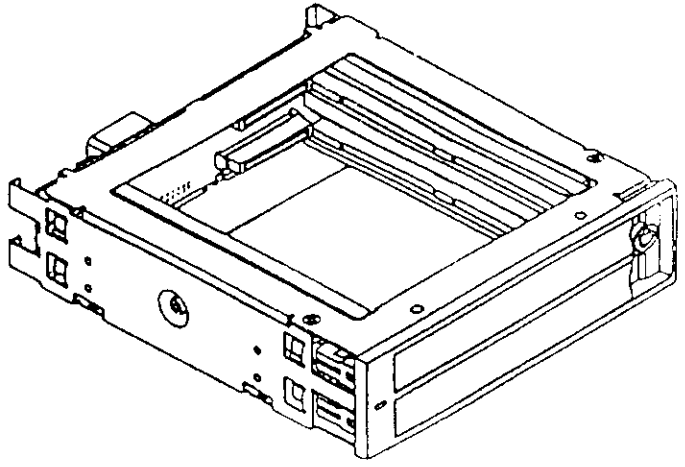
S3	SUPPLY VOLTAGE
	+5V
	+12V

August 17, 1993

1993年12月　ティアック株式会社
〒180 東京都武蔵野市中町3－7－3

PRINTED IN JAPAN 1293

Model RH-314B
Docking Bay



INSTALLATION GUIDE

TEAC

10190500-00
Rev. A

Introduction

This guide deals with installing the RH-314B docking bay into a standard AT-compatible PC system. For details of installing and configuring the SD-3XXXN series drive please refer to the SD-3XXXN series installation guide.

Prior to Installation

Do not remove the drive and the docking bay from the shipping container and/or antistatic bag until you are ready to begin installation.

When handling the docking bay take care not to touch the connector or PCB without proper grounding.

Do not install the drive into the docking bay. Install the docking bay into the system first.

Please observe all warnings and cautions on the drive, in this guide and the SD-3XXXN series installation guide. Failure to do so could cause damage to the drive or your data.

CAUTION
ALWAYS DISCONNECT POWER BEFORE INSERTING OR REMOVING THE DRIVE FROM THE DOCKING BAY.
HOWEVER, WHEN THE OPTION RH-3A IS USED, IT IS NOT NECESSARY TO DISCONNECT THE POWER.

Selection of VCM power supply voltage

Pin JP1 on the Docking bay PCB is to select the voltage supplied to the VCM (Voice Coil Motor). When using SD-3XXXN, please set the short strap to +5V, by referring to the table below.

JP1	SUPPLY VOLTAGE
	+5V
	+12V

Table 1

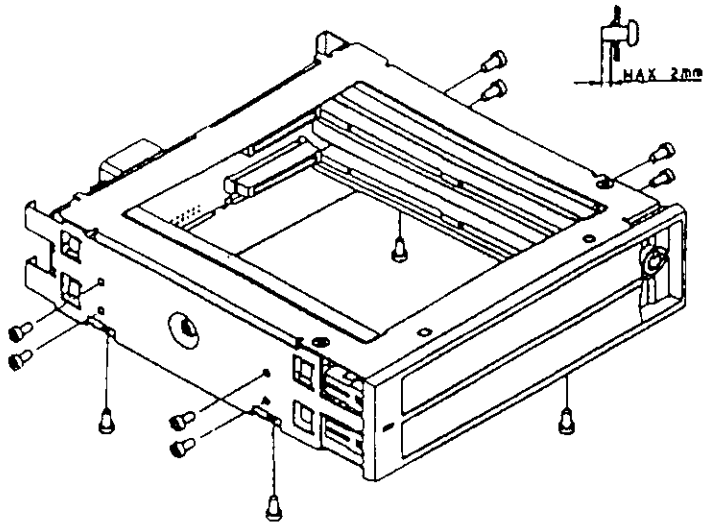
Docking bay Installation

In order to connect the drive to the host adapter the RH-314B docking bay needs to be installed into a spare 5¼ " slot in your cabinet.

To protect against ESD damage do not fit the drive into the docking bay until after the bay has been installed into the system.

Ensure that power has been switched off and disconnected.

The docking bay is secured to the cabinet by four M3 screws supplied. Four screws are required on each side of the bay, mounting either on the side or from below.



CAUTION
PROTRUSION OF ANY SCREW FROM THE DOCKING BAY MUST NOT EXCEED 0.08 INCHES (2.0mm).

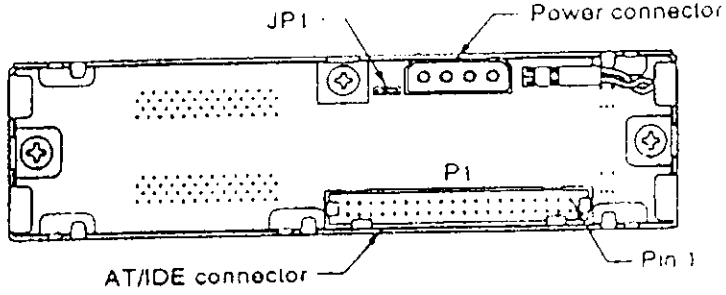
Connect the 40-pin AT/IDE cable from the host adapter/embedded adapter to the connector on the RH-314B docking bay (connector P1) and also a second drive if applicable. However, please do not connect three or more drives in this case. If you are using three or more drives, please use the option, RH-314B, and follow its instruction.

Most cables have a color strip along one edge indicating pin 1. Please ensure that this is oriented correctly for both pin 1 of the RH-314B docking bay and pin 1 of the host adapter (and other drive). Connect the 4-pin power connector from the system's PSU (power supply unit) to the power connector on the RH-314B docking bay.

Some AT/IDE cables are not keyed to ensure correct orientation.

Please ensure that you connect pin 1 of the AT/IDE cable (red strip) to pin 1 of the docking bay as shown below.

Once the docking bay is secured to the cabinet, the drive can be inserted and installed. See the drive installation guide for details of this procedure.



On the front of the docking bay there is a status LED to indicate the drive is active.

Drive Configuration

Excute attached DOS utility "SDCONFIG. EXE" to set "DRIVE SELECT:" to MASTER or SLAVE.

Cautions: 1. Drive need to be set MASTER or SLAVE "DRIVE SELECT:" is set to CSEL at shipment
Drive can not be used with "DRIVE SELECT:" set to CSEL.

2. When you set up master or slave configuration, please insert only one drive in the RH-314B. If you have two drives inserted at the same time in the RH-314B, the SDCONFIG. EXE may not work correctly.
3. When you use two drives, set one drive to MASTER and set another drive to SLAVE. Borth of two drives can not be set to MASTER or SLAVE.

For detailed operation of "SDCONFIG.EXE", refer to the SD-3XXXN Series Installation Guide.

Note that the removal of the drive can be prevented by setting the door key to the lock position.(Refer to Fig. 2.)

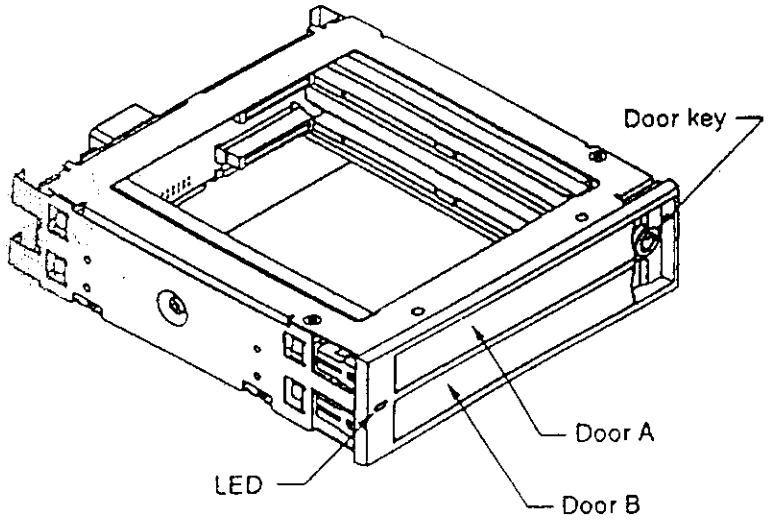


Fig. 1

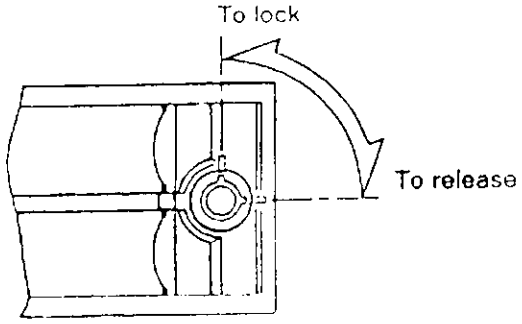


Fig. 2

Precautions when closing the docking bay door

When installing the drive into the docking bay, see that the screw holes on the drive come near the edge of the front bezel before closing the door.

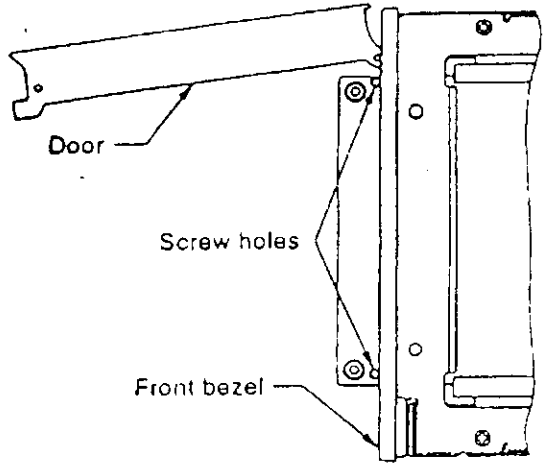


Fig. 3 Docking bay when viewed from top

Cautions when using the drive

1) When using only a single drive, install it in the door A side
2) When using both two drives, install them before operation.

RH314B Dual Docking Bay
Application Note

2 November 1994

Master/Slave configuration of SD3xxxN used with the RH314B

The RH314B provide positions for two RHDDs. Two methods may be used to configure the RHDDs as master and slave.

Method #1

> The RHDDs are factory configured for CSEL (cable select). When installed into the RH314B the Master drive will always be the drive in the upper position and the slave will be in the lower position. With this configuration you will be able to use your drives as Master or Slave when needed. However, you must first boot from a floppy diskette and make the partition on the new Master drive ACTIVE using DOS FDISK. You will not be able to boot until the partition is active.

Method #2

> The SDConfig utility can be executed to configure the drives as Master, Slave, CPSlave, MXSlave, Drive 0 or CSEL. However, because the RH314B accommodates only TEAC Stor RHDDs only Master or Slave settings should be used.
>
> When the RHDD is configured for Master or Slave, the RHDD can be installed into the upper or lower position. The system will boot from the Master drive in the upper or lower position, and the slave will be accessible from the either position.

With the Cable SELect setting the signal level at line #28 will define the RHDDs. The RH314B is designed to provide the RHDDs the appropriate signal level for Master at the upper position and for the Slave at the lower position. When the drives are configured for Master or Slave the drives ignore the input signal level at line #28 and will function as configured by the SDConfig utility.