

DRIVE DRAWER



Removable Drive Drawer for
3.5" SCSI 320 Hard Drives

DRW150SCSI
DRW150SCSIBK
DRW150SCA
DRW150SCABK

Instruction Guide



* DRW150SCA shown

* Actual product may vary from photo

Technical Support

The following technical resources are available for this StarTech.com product:

On-line help:

We are constantly adding new information to the *Tech Support* section of our web site. To access this page, click the *Tech Support* link on our homepage, www.startech.com. In the tech support section there are a number of options that can provide assistance with this card.

Knowledge Base - This tool allows you to search for answers to common issues using key words that describe the product and your issue.

FAQ - This tool provides quick answers to the top questions asked by our customers.

Downloads - This selection takes you to our driver download page where you can find the latest drivers for this product.

Call StarTech.com tech support for help: **1-519-455-4931**
Support hours: Monday to Friday 9:00AM to 5:00PM EST (except holidays)

Warranty Information

This product is backed by a one-year warranty. In addition StarTech.com warrants its products against defects in materials and workmanship for the periods noted below, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

Limitation of Liability

In no event shall the liability to StarTech.com Ltd. (or its officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of related to the use of the product exceed the actual price paid for the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

There is a second set of 8 jumper pins located between the power connector and SCSI ID dip switch on the back of the bay. These pins represent (from left to right):

- 5V GND
- Power LED +
- ID 8
- ID 4
- 5V GND
- 5V GND
- ID 2
- ID 1

Technical Specifications

Drive connectors	DRW150SCSI/BK: 68/68-pin DRW150SCA/BK: 80/68-pin
Material	Aluminum
Dimensions (LxWxH)	8.98 x 5.75 x 1.61 in. (228 x 146 x 41mm)
LEDs	Power, HD access, fan, temperature
Certifications	CE

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Introduction

Thank you for purchasing a StarTech.com aluminum removable hard disk drawer. Now you can quickly add and remove your 68-pin (DRW150SCSI/BK) or 80-pin (DRW150SCA/BK) 3.5" SCSI hard drives from your PC without having to open your computer. Each unit consists of an outer caddy that fits into any 5.25 inch drive bay and a removable drawer that holds your hard disk. Whether for multiple operating systems, making high-speed, high-capacity backups, or minimizing downtime on mission-critical PCs, StarTech.com's removable drive drawers provide the ultimate in reliability and convenience.

Features

- Allows you to add and remove 3.5" SCSI hard drives to a 5.25" bay
- Front and rear ball-bearing fans and aluminum construction keep drives running at optimal temperatures
- Front LEDs keep you informed of drive power and activity status
- Locking mechanism keeps drive from being accidentally removed while in operation
- Backed by StarTech.com's one-year warranty

Before You Begin

To ensure a quick and easy device installation, please read through this section carefully before attempting to install the device.

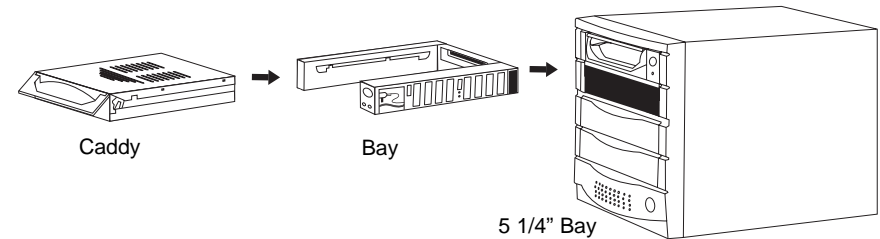
WARNING! Hard drives, like all computer equipment, can be severely damaged by static electricity. Be sure that you are properly grounded before opening your computer case or touching your hard drive. StarTech.com recommends that you wear an anti-static strap when installing any computer component. If an anti-static strap is unavailable, discharge yourself of any static electricity build-up by touching a large grounded metal surface (such as the computer case) for several seconds.

System Requirements

- An available 5.25" drive bay
- A 68-pin U3W (DRW150SCSI/BK) or SCA 80-pin (DRW150SCA/BK) Ultra 320/160 SCSI hard drive
- One SCSI drive connection cable
- One internal power cable

Installing the Caddy in the Bay

1. With the handle lifted, slide the caddy into the bay until it is firmly seated. Lower the handle to click the caddy into its proper position.
2. Insert the key and turn counter-clockwise to lock the drive into place and supply the drive with power. **The drive will not function if the drawer has not been locked.**



Removing the Drive Drawer

1. Insert the key and turn clockwise to unlock the drive drawer.
2. Lift the handle and gently pull the caddy out of the bay.

NOTE: Do not unlock the drawer when the hard drive is in use (See "Using Your Drive Drawer" below). Only power down the drive when the hard drive is idle. Once you have unlocked the hard drive, wait approximately 15 seconds to let the hard drive fully "spin down" before removing the caddy from the bay.

Using Your Drive Drawer

The LEDs on the front of the drawer are your best indication of the drawer's activity.

LED	Color	Description
Power	Green	A solid LED indicates that the drive is powered.
Drive Access	Yellow	A solid LED indicates that the drive is properly connected. A flashing LED indicates when the hard drive is being accessed.
Fan	Green/Red	At drive temperatures under 95°F (35°C) the fan is on standby and the LED blinks green every 0.5 seconds. At temperatures over 95°F (35°C), the fan turns on and the LED will be a steady green. In the event of fan failure, the LED will be lit red.
Temperature	Green/Red	When lit green, the temperature is in the acceptable range. When lit red, the drive is overheating.

NOTE: If the drive is overheating, a buzzer alarm will sound and the temperature LED will be lit red. Press the red reset button on the front of the drawer to reset the drawer.

Setting the Jumpers

Each device connected to the SCSI bus must have a unique SCSI ID. Depending on your SCSI controller, you will be able to connect either 7 or 15 devices. Consult your SCSI controller documentation for more details. The SCSI ID you have chosen will appear on the front of the device in hexadecimal format (0-9, A=10, B=11, etc.). There are two possible ways to assign a SCSI ID to your hard drive:

- Use the red/white dip switch on the back of the bay.
- **DRW150SCSI/BK only:** Use the jumpers (the set of 8 pins labeled JP1) on the caddy near the drive connectors.

SCSI ID	0	1	2	3	4	5	6	7
1	Off	On	Off	On	Off	On	Off	On
2	Off	Off	On	On	Off	Off	On	On
4	Off	Off	Off	Off	On	On	On	On
8	Off	Off	Off	Off	Off	Off	Off	Off

SCSI ID	8	9	10	11	12	13	14	15
1	Off	On	Off	On	Off	On	Off	On
2	Off	Off	On	On	Off	Off	On	On
4	Off	Off	Off	Off	On	On	On	On
8	On	On	On	On	On	On	On	On

NOTE: Set only the switches **OR** the jumpers. Do not set both. If you set the jumpers, leave the dip switches at "0" and vice versa.

Installing the Bay in the PC

1. Make sure your system is unplugged and you are grounded.
2. Remove the side covers from your system and remove the front cover from an available 5 1/4" drive bay (see your computer's user guide for details, if necessary).
3. Insert the bay into the 5 1/4" bay slot, making sure that the screw-holes on the bay line up with the holes in the bay slot.
4. Connect your computer's SCSI cable to the connector on the back of the bay. Make sure that your SCSI chain has been properly terminated. See your SCSI controller's user guide for details, if necessary.
5. Plug a connector from your computer's power supply into the power port on the back of the bay.
6. Using the M3 x 1/4" long (fine thread) screws, mount the bay into the PC.

Installation

This section will guide you through the installation of your removable drive drawer. Please read through this section carefully and complete each step in the order listed.

NOTE: Be sure that you are aware of any special instructions or procedures that must be completed before installing your hard drives. Contact the hard drive manufacturer for more details if necessary.

Installing the Hard Drive in the Caddy

1. Remove the caddy from the bay by lifting the handle and sliding the caddy out of the bay.
2. Remove the top panel from the caddy by sliding the lid towards the back of the caddy. (It may help to press down on the lid near the front of the drawer and then slide the lid free.)
3. **DRW150SCSI/DRW150SCSIBK:** Gently place the hard drive in the caddy and position the drive so that it is firmly attached to the connectors at the back of the drawer.

DRW150SCA/DRW150SCABK: Gently place the hard drive in the caddy and position the drive so that the drive reaches the end of the caddy.
4. Using the 6-32 x 1/4" (coarse thread) screws, secure your hard drive into the drawer.
5. Replace the top panel of the caddy.

