

# Adtron S35FA Model 01 SCSI Flash Drive Installation Manual

## Introduction


Congratulations on your purchase of the Adtron S35FA Model 01 flash disk drive! The S35FA Model 01 is a performance and architecture upgrade to the S35F (formerly the S35CF). The S35FA Model 01 offers flash storage in an industry standard 3.5" form factor. When durability and environmental extremes are an issue, the S35FA Model 01 is available in commercial, enhanced and industrial operating temperature ranges.

Visit [www.adtron.com/catalog.html](http://www.adtron.com/catalog.html) to view the complete line of Adtron SCSI and IDE flash disk drives.

<b>Indicators</b>	Single-color LED indicates BUSY and ERROR conditions
<b>Interface</b>	SCSI-2 using a 50-pin, 0.1" pitch, dual-row connector. Termination power is provided by the power supply, not the SCSI bus
<b>Size</b>	101.5mm [3.995"] W x 146.1mm [5.75"] D x 17.2mm [0.68"] H
<b>Weight</b>	Contact Adtron Sales
<b>Power</b>	5V @ 1.2A (typ)

Table 1 Specifications

## ESD Caution

 Static electricity may be discharged through the S35FA Model 01. In extreme cases this may temporarily interrupt the operation or damage components. To prevent this, touch a grounded device, such as a computer case, prior to handling.

## Before installing the S35FA Model 01 hardware

1. Turn off the computer in which you are installing the S35FA Model 01.
2. Make sure that you are properly grounded.
3. Set the SCSI ID number, termination, remote LED, and disconnect characteristics. See instructions below for the jumper settings.

## Set the SCSI ID

The SCSI ID, or address, is determined by installing jumpers on pins 4, 2, and 1, or no jumpers for ID 0. The row of grayed out pins is signal ground. Refer to Table 2 for valid SCSI ID number combinations. In the table, ON is low and OFF is high.

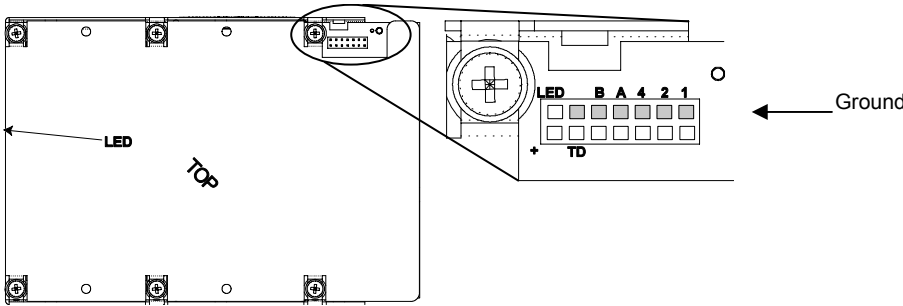


Figure 1 JP1 Jumper

SCI ID	JP1 Pin 4	JP1 Pin 2	JP1 Pin 1
0	OFF	OFF	OFF
1	OFF	OFF	ON
2	OFF	ON	OFF
3	OFF	ON	ON
4	ON	OFF	OFF
5	ON	OFF	ON
6	ON	ON	OFF
7	ON	ON	ON

Table 2 SCSI IDs

## Termination

The S35FA Model 01 includes active termination that is enabled by default. Termination may be disabled by installing a jumper on the pin labeled TD on JP1. See Figure 1.

## Remote LED

The last jumper on the left in Figure 1, labeled LED, is used for a remote-mounted LED. The pin nearest the "+" sign runs through a 180 Ohm resistor to +5V.

## Disconnects

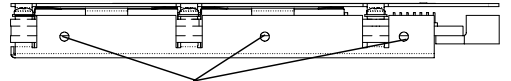
SCSI disconnects are controlled by the SCSI host adapter. Disconnects are enabled by default on this product. Without using the host adapter controls, disconnects can be disabled by installing a jumper on pin labeled B on JP1. See Figure 1 for the location of pin B on JP1.

## Tape Rewind Behavior

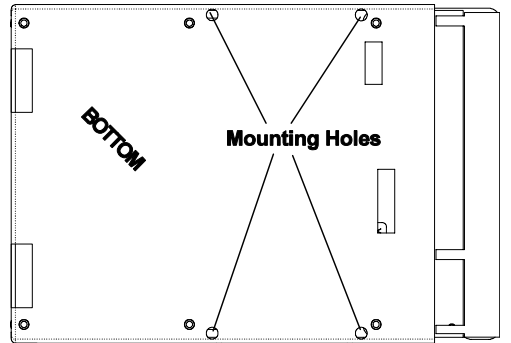
Tape emulation applies only to certain models. When JP1 pin labeled A is open (no jumper), the drive finds the end of any data already on the media. When JP1 pin labeled A is shorted (jumper on), the drive rewinds to the beginning of the media. See Figure 1 for the location of pin A on JP1.

**Install the S35FA Model 01 into a drive bay**

The S35FA Model 01 mounts into any standard 3.5" hard disk drive application. **DO NOT** exceed the maximum insertion depth of 3.8mm [.150"] from drive edge. Consider the length of screw used and thickness of the mounting surface. A common screw length of 3/16" is provided but may not be correct in all applications. See Figure 2.



**6-32 x 3.8mm [.150"] Max Depth**



**Figure 2 Mounting Holes**

**Connect the cables to the S35FA Model 01**

Using a 50-pin cable, connect the S35FA Model 01 to the SCSI controller or another SCSI device. If the connector on the ribbon cable is not "keyed", the stripe of the cable should be nearest the power connector. Plug a power cable from the computer's power supply into the S35FA Model 01 power connector. The S35FA Model 01 does not require 12V.

**Install an operating system**

The S35FA Model 01 can be formatted like any standard hard disk drive – bootable for operating system function or not bootable. Any standard disk partitioning and formatting utility can be used. You can install any operating system that you choose. The method of installing a specific operating system can vary, so consult the operating system or SCSI controller documentation for instructions.

**Troubleshooting**

The S35FA Model 01 is simple to install and operate. However, if you experience problems, Table 3 lists some common problems and possible solutions.

For more information, visit the Adtron web site at <http://www.adtron.com/tech.html> or send email to [techsupport@adtron.com](mailto:techsupport@adtron.com). Or, contact technical support at 602-735-0300 in the U.S. or at +45-4557-0754 in Europe.

Problem	Possible Solution
The S35FA Model 01 is not detected on the SCSI bus during boot time.	Check that the SCSI ID does not conflict with other SCSI devices. Also, check for proper SCSI Termination.
With the S35FA Model 01 installed, the system hangs when I boot it.	Check that the SCSI ID does not conflict with other SCSI devices. Also, check for proper SCSI Termination.
When I first turn on the system, the S35FA Model 01's LED blinks ON and OFF once per second.	The S35FA Model 01 has detected an internal problem. Contact Adtron Technical Support.
When I first turn on the system, the S35FA Model 01's LED blinks in a pattern.	The S35FA Model 01 has detected an internal problem. Contact Adtron Technical Support.

**Table 3 Troubleshooting**

**Warranty**

Adtron warrants this product to be free from defects in materials and workmanship for three years. If this product fails within three years due to such a defect, Adtron will repair or replace this product at no charge.

This warranty does not apply if this product has been damaged by abuse, accident, disaster, misuse or incorrect installation. There are no user-serviceable components within the S35FA Model 01.

**Notice**

This manual describes the features of Adtron's S35FA Model 01. Adtron reserves the right to modify, amend, or in any way change the contents and/or products described herein, at any time, without notification.

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