

ADJILE SYSTEMS, INC.

**SAFTE BOARD
TECHNICAL MANUAL**

Introduction to the SAF-TE board

The Adjile SAF-TE enclosure management board is intended to work in conjunction with the RAID controller and the RAID controller's management software. The current SAF-TE board will detect the condition of 3 power supplies, up to 6 cooling fans, and temperature. The SAF-TE board will report changes in condition (from good to bad and vice versa) to the RAID controller. The RAID controller software will detect these changes in condition and provide a graphical interface for each.

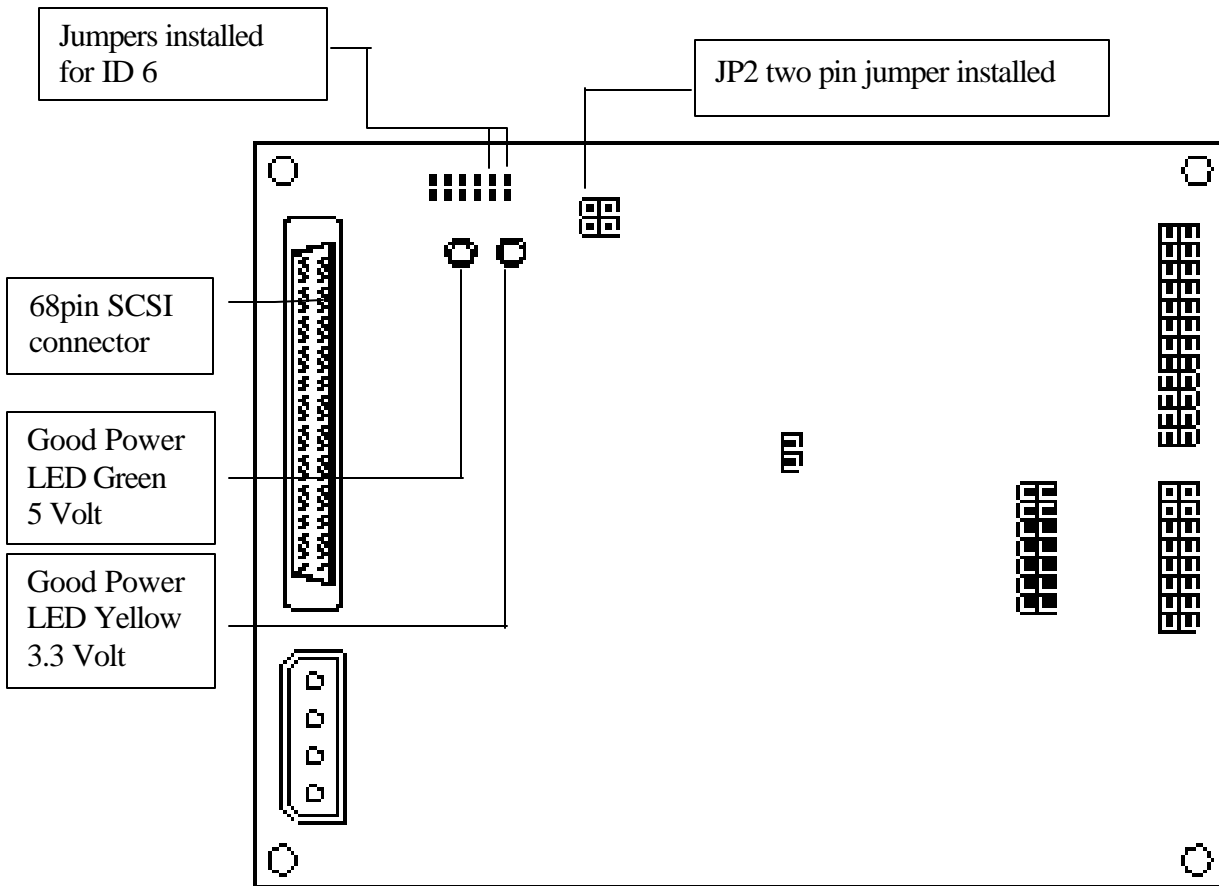
SCSI BUS INTERFACE

Cable Connection & Termination

The SAF-TE board is connected to the bus through a male 68pin SCSI connector. There is no termination on the SAF-TE board. Termination should be set at the end of the SCSI bus. The SAF-TE board will be recognized in asynchronous mode.

SCSI ID

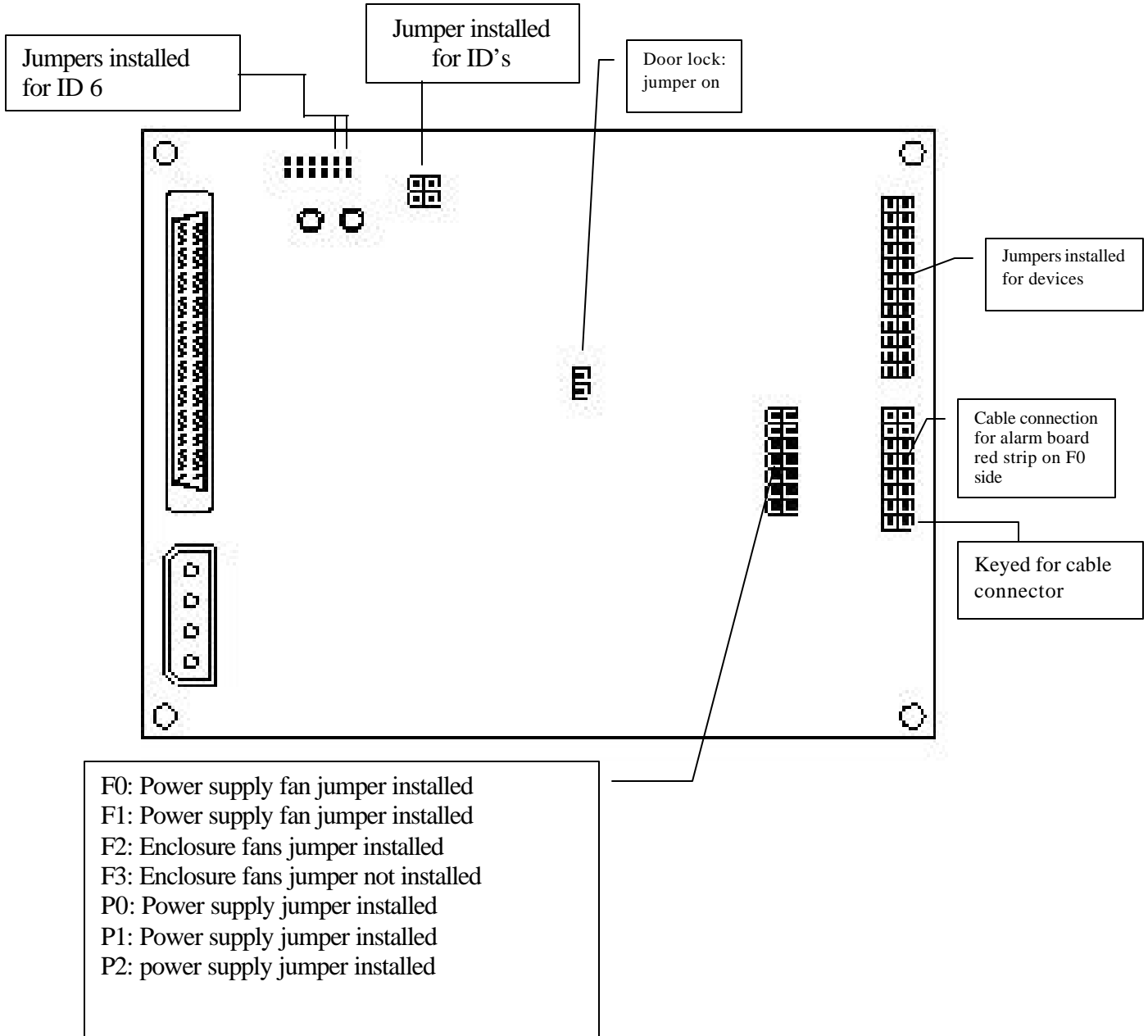
The SAF-TE board has a jumper at JP2 which allows you to use the row of pins at P3 to set the ID between 1 – 15. The SAF-TE board is factory set at ID 6. The SAF-TE board must have a unique ID so it doesn't have an ID conflict with other devices on the same bus.



Jumper Settings

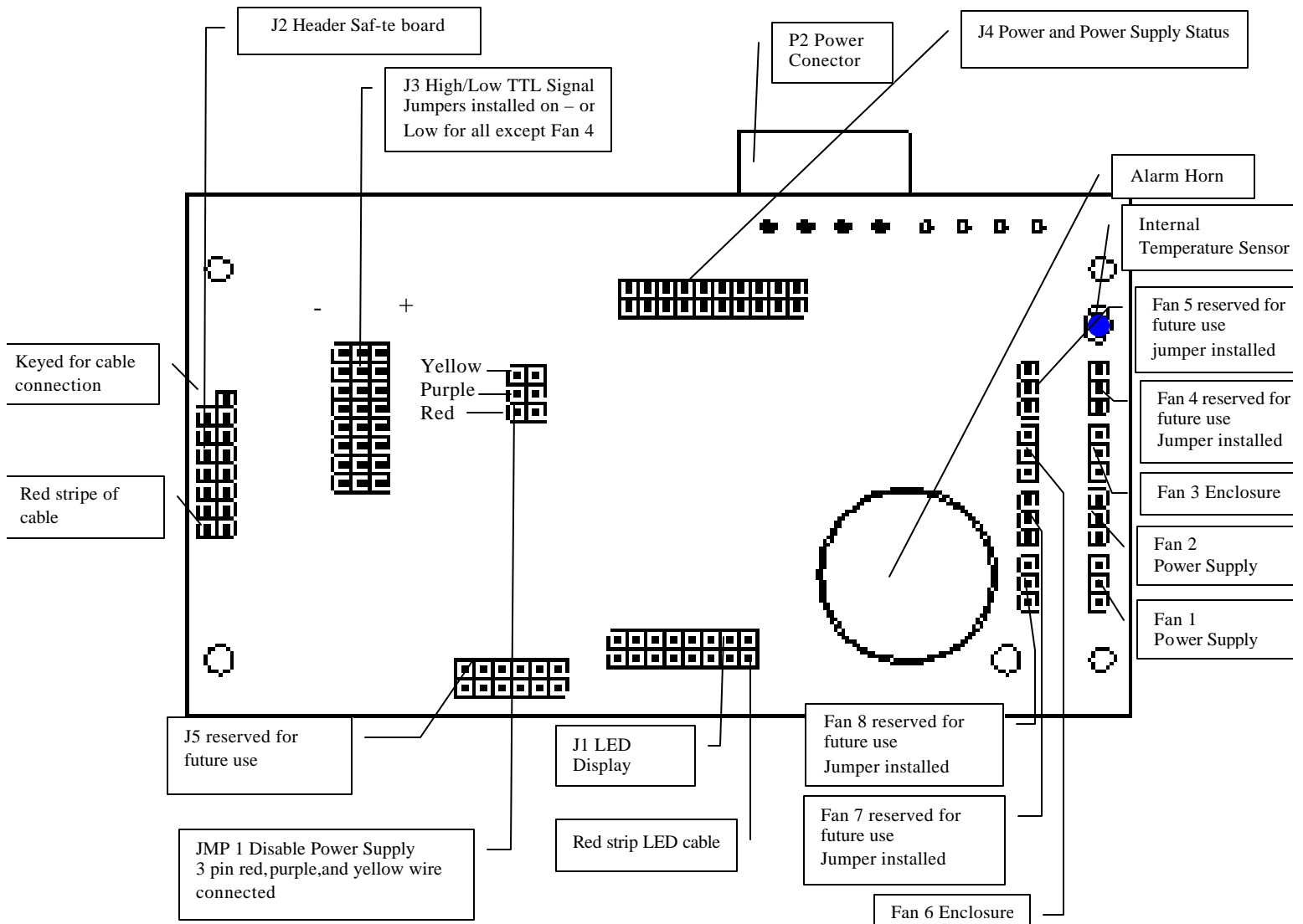
The SAF-TE board will have the proper settings from the factory. The jumpers are set according to your systems configuration and should not be changed without contacting Adjile Systems technical support.

Typical configuration:

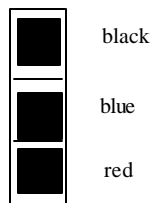


Alarm Board

This is an example of the alarm board that is attached to the SAF-TE board through an IDC ribbon cable connection.



Fan 1 – 5 should have the wire connected as follows:



Disk Drive Monitoring

With the proper jumper settings on the SAF-TE board, disk drives can be seen as installed on the raid controller.

Power Supply Monitoring

Three power supplies can be monitored with the SAF-TE board. In the event of a power supply failure the RAID controller software will report a power supply problem. Until the supply is replaced or removed the SAF-TE board will report a status problem to the software.

Fan Monitoring

Four fans can be monitored with the SAF-TE board. If there is a chassis fan or power box fan failure the software will report a fan failure. Until the fan is replaced the SAF-TE board will report a status problem to the software.

Temperature Monitoring

The temperature of the chassis is monitored by the SAF-TE board. If the chassis temperature climbs above 110°F/43.3C the SAF-TE board will report a temperature alert to the software. Until the temperature in the chassis drops below 110°F/43.3C the SAF-TE board will still report a status problem to the software.

Door Lock Monitoring

Feature available contact Adjile Systems technical support.

Power Requirements

The SAF-TE board has a 4 pin molex connector which is the standard mate for the power supply power connectors.

5V DC +/-5% up to 600mA
12V DC +/-10% up to 1.5A

Firmware

The SAF-TE board firmware is only capable of being upgraded by Adjile Systems,Inc.

Technical Support

For technical support please contact:

Adjile Systems,Inc.
(800) 347-7621 or techsupport@adjile.com

Tampering with the SAF-TE board can cause the SAF-TE board to malfunction.