Installation Instructions

1394 Fan Kit

(Catalog Numbers 1394-FK10TS and -FK22TS)

This publication provides installation instructions for the Allen-Bradley® 1394 fan kit. The fan kit applies to the following 1394 GMC and GMC Turbo system modules listed in the table below.

This 1394 Fan Kit Catalog Number:	Applies to these 1394 System Modules:
1394-FK10TS	1394C-SJT05-C
	1394C-SJT05-C-RL
	1394C-SJT05-L
	1394C-SJT05-L-RL
	1394C-SJT05-T
	1394C-SJT05-T-RL
	1394C-SJT10-C
	1394C-SJT10-C-RL
	1394C-SJT10-L
	1394C-SJT10-L-RL
	1394C-SJT10-T
	1394C-SJT10-T-RL

This 1394 Fan Kit Catalog Number:	Applies to these 1394 System Modules:
1394-FK22TS	1394C-SJT22-C
	1394C-SJT22-C-RL
	1394C-SJT22-T
	1394C-SJT22-T-RL

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For additional 1394 installation, wiring, or system integration information, refer to the following publications:

- *1394 Digital AC Multi-Axis Motion Control System User Manual* (publication 1394-5.0-MAY00).
- *1394 Digital AC Multi-Axis Motion Control System Document Update* (publication 1394-DU005*x*-EN-P).

To download this and other Rockwell Automation® publications, go to www.rockwellautomation.com/literature.

Introduction

The 1394 fan kit is designed to provide additional cooling for the system module. The fan is attached on top of the system module chassis exterior and wired to 24V dc. You may need a volt meter and small flathead screw driver to install the fan.

ATTENTION

To avoid shock hazard or personal injury, assure that all power is removed from the system module before proceeding. This system may have multiple sources of power. More than one disconnect switch may be required to de-energize the system.

Installing the 1394 Fan Kit

To install the 1394 fan kit:

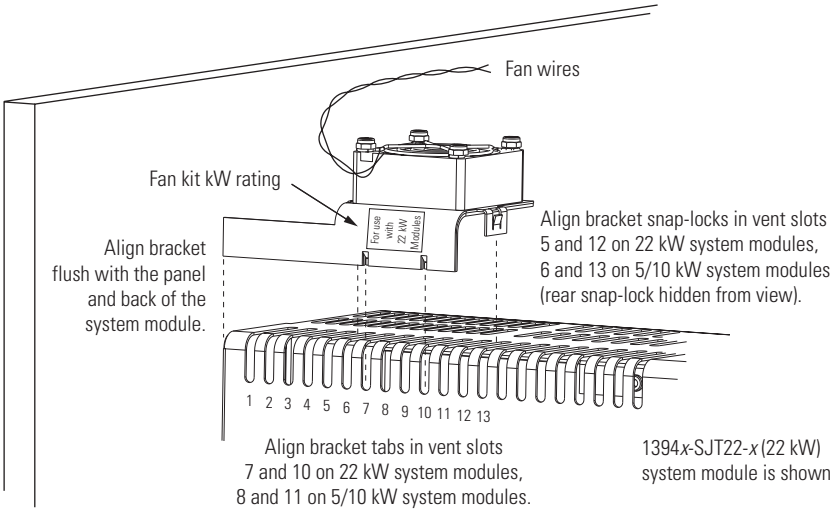
1. Remove all input power to the drive. Allow five minutes for the DC bus to completely discharge before proceeding.

ATTENTION

This product contains stored energy devices. To avoid hazard of electrical shock, verify that all voltage on capacitors has been discharged before attempting to service, repair, or remove this unit. You should only attempt the procedures in this document if you are qualified to do so and are familiar with solid-state control equipment and the safety procedures in publication NFPA 70E.

2. Position fan kit over the system module vent slots by aligning the bracket flush with the panel (refer to Figure 1).

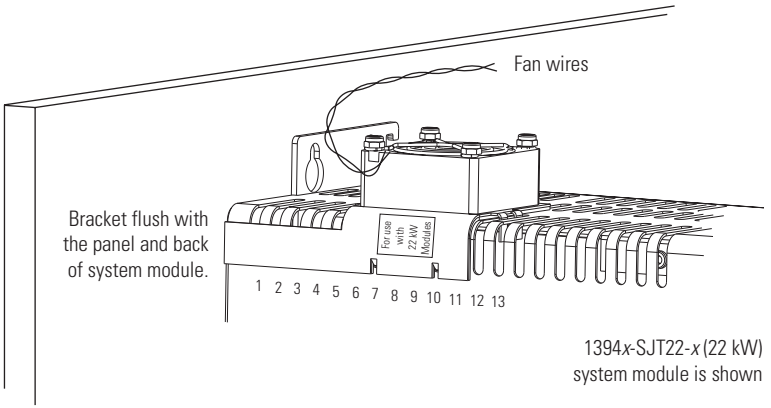
Figure 1
Aligning the 1394 Fan Kit Over the System Module



IMPORTANT Verify the fan kit kW rating matches the system module kW rating. Mismatched fan kits will not align properly with the vent slots.

3. Press fan kit downward, with bracket tabs inserted between vent slots, until snap-locks click into place (refer to Figure 2).

Figure 2
1394 Fan Kit Installed Over the System Module



ATTENTION To avoid equipment damage, do not route the fan wiring under the bracket. Keep fan wiring out of the way while pressing fan and bracket down onto the system module.

4. Verify the fan wiring is not routed under the fan and bracket.

Wiring the 1394 Fan Kit

The 1394 fan kit accepts only 24V dc, which can be supplied from the system module 24V dc (logic) power supply or separate 24V dc supply.

IMPORTANT The 1394 fan kit accepts only 24V dc (within a range of 18.75 - 31.25V dc, 50/60 Hz). If your system module logic power supply is 24V ac, then a separate (customer-supplied) 24V dc must be used.

To wire the 1394 fan kit:

1. Route fan kit wires down along the side of the system module and over to where the 24V dc power supply connections are made (refer to figures 3 and 4 for the location of the 1394 connector locations).

Figure 3
Locating 24V dc Connections (5 and 10kW system modules)

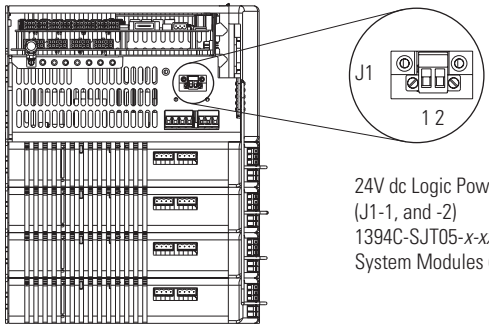
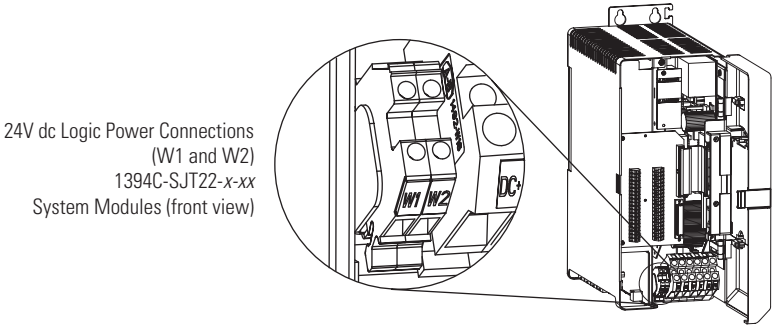


Figure 4
Locating 24V dc Connections (22kW system modules)



2. Label and remove the 24V dc logic power wiring from the system module.

3. Determine the positive 24V dc supply wire and align the red wire from the fan kit to the +24V side.

4. Determine the negative 24V dc supply wire and align the black wire from the fan kit to the -24V side.

IMPORTANT The desired direction of air flow is upward. If fan is wired backwards, air flow will be downward.

5. Insert and tighten the 24V dc supply wires (and fan wires) as described in the table below (system module polarity is not specified).

System Module	24V dc Input Connections	Torque Value
1394C-SJT05 and -SJT10	J1-1 and -2	0.56 - 0.62 N-m (5.0 - 5.6 lb-in.)
1394C-SJT22	W1 and W2	

6. Gently pull on each wire to make sure it does not come out of its terminal. Re-insert and tighten any loose wires.

7. Restore input power and verify drive operation.

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