

ABB SAFT188IOC

Input/Output Connection Card

Manufacturer	ABB
Model / order number	SAFT188IOC / SAFT 188 IOC
Product identification	Input/Output Connection Card
System / family context	SAMI STAR drive system

Verified scope

The ABB SAMI STAR manual identifies SAFT 188 IOC as an Input/Output Connection Card. It links the inverter control card to external devices and uses the SAFT 174 TBC terminal board.

The source shows 24 V DC and +14 V DC supply connections and an internally generated 5 V DC supply. Figure 2-20 test-point voltages are diagnostic values, not operating tolerance limits.

Engineering checks before replacement

- Match the SAFT 188 IOC board marking and installed hardware revision.
- Verify X1 to the 174 TBC, X5 to CP1 and the installed option-card wiring.
- Record tachometer and analog-input selector positions before removal.
- Check Channel 1 communication and supply test points using approved safe procedures.

ABB manufacturer document reference

ABB SAMI STAR User Manual - SAMI STAR-US-04A, effective 12/1/94.
Page 2-29 and the IOC continuation from page 2-30; third-party archive.

Open ABB manual copy hosted by Optimal Control

This is an independent Sales PLC cover, not an ABB-issued datasheet. The following compressed extract preserves the selected original text and diagram; unrelated continuation is cropped.

Request model verification or a quotation

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Input/Output Connection Card SAFT 188 IOC

The Input Output Connection Card Figure 2-20 interfaces the INU Control Card to various external devices. The board must be used with the 174 TBC Terminal Block Card through connector X1. Control Panel CP1 connects to X5 and provides local control and monitoring of the drive. Optional Analog I/O Cards can be connected to X4. The IOC Card has exclusive use of Drive Channel 1. On start up, the IOC processor checks for transmissions from the drive and adjusts its baud rate accordingly. If no messages are received from the drive, CP1 displays "SAFP11".

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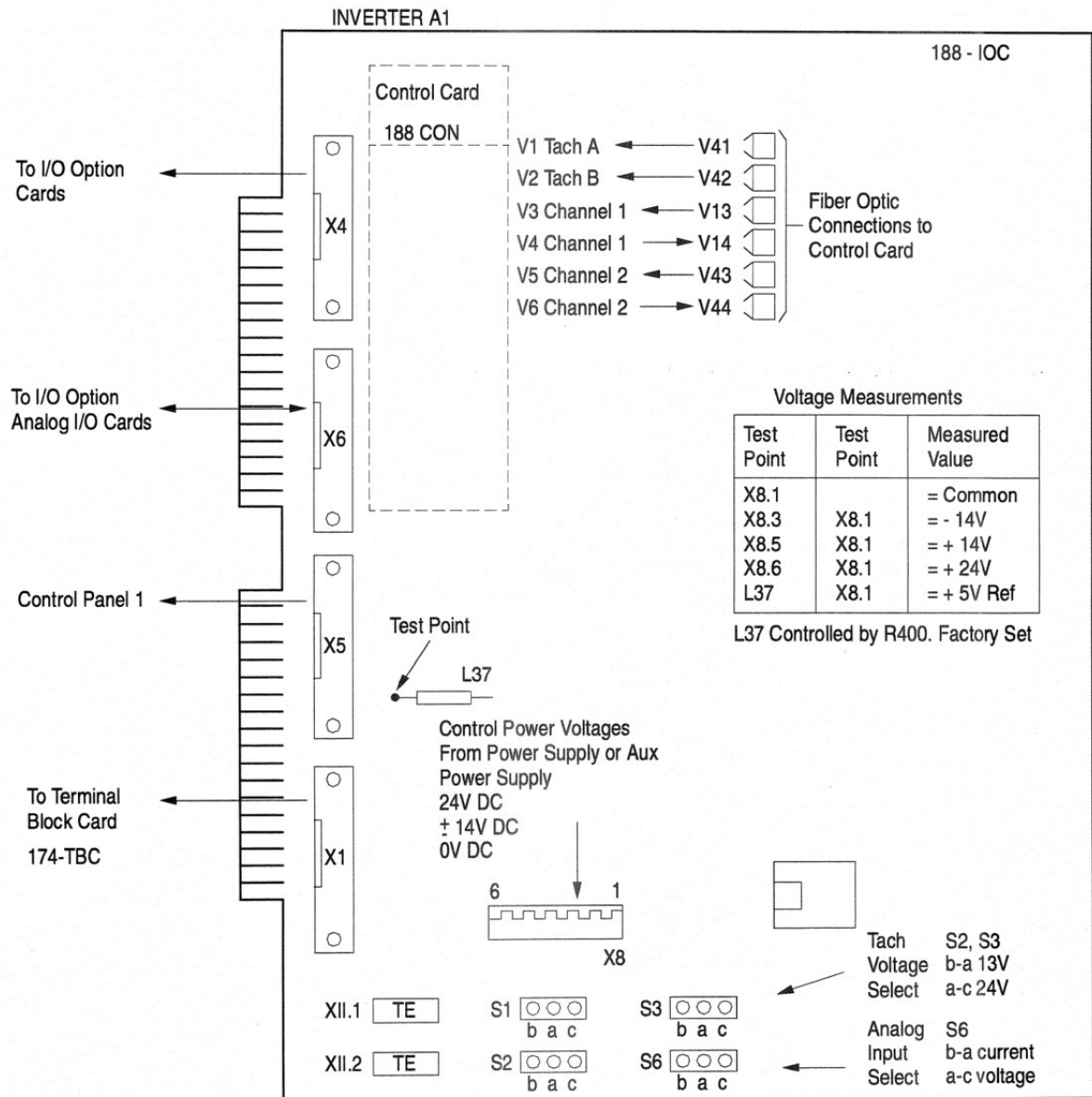


Figure 2-20 Input/Output Connection Card

Chapter 2 – Hardware Overview

The IOC also identifies option cards that are connected to it and optimally initializes a buffer for inputs to the drive. The buffer consists of 10 codes of messages to be sent to the drive. Each message takes about 20 ms at 4800 baud or 10ms at 9600 baud. With no option cards, the buffer is initialized for the following messages to be sent each scan:

- 4 analog input 0 messages are sent to parameter 246.
- One digital input message is sent to parameter 245.
- 4 more analog input 0 messages are sent to parameter 245.
- CP1 push-button data is sent to parameter 19.

Analog and digital outputs from the drive to the IOC Card are set up in the drives recurring output transmission table (parameters TEE 114 to TEE 129).

The board receives 24V DC and +14 V DC. It produces its own 5 VDC control power.