Model 560-5186
Hex Timing Input Module Manual

September 18, 1997

Serial Number_____

SECTION ONE

1. FUNCTIONAL DESCRIPTION

1.1 PURPOSE OF EQUIPMENT

The TrueTime Model 560-5186 Timing Input Module provides a DC-coupled input interface, via BNC connectors, that directly drives signals IN1 through IN6 on the backplane. INPUT 1 through INPUT 6 on the Timing Input Module drive IN1 through IN6, respectively. The six backplane signals are distributed via controlled-impedance traces, terminated on the backplane at Slot 17. For proper operation, the 50 ohm terminator for each Timing Signal **must** be enabled or disabled to match the driving source (see the Chassis Manual for information).

1.1.1 PHYSICAL SPECIFICATIONS

Dimensions:	0.8”w X 4.4”h X 5.0”d (2 cm X 11 cm X 13 cm)
Weight:	Approximately ½ pound (¼ kg)

1.1.2 ENVIRONMENTAL SPECIFICATIONS

Operating Temp:	0° to +50°C
Storage Temp:	-40° to +85°C
Humidity:	95% relative, non-condensing
Cooling Mode:	Convection

1.1.3 POWER REQUIREMENTS

Power:	None

1.1.4 FUNCTIONAL SPECIFICATIONS

1.1.4.1. INPUT CONNECTOR

Type:	BNC
Quantity:	6

1.1.4.2. INPUT 1 THROUGH 6

Signal Type:	As specified for card(s) using input signal.
Input Impedance:	Selectable: 50 ohm / High (See Chassis Manual)

1.1.4.3. CARD COMPATIBILITY

Location:	Slot 1-3
Compatibility:	See Card Compatibility Matrix

SECTION TWO

2. INSTALLATION AND OPERATION

2.1. HOT-SWAPPING

All cards, input cables and output cables are hot swappable. It is not necessary to remove chassis power during insertion or removal. The system is designed to protect against permanent effects and minimize any temporary effects of hot swapping.

2.2. REMOVAL AND INSTALLATION

Refer to CARD COMPATIBILITY section prior to installing new card.

To remove card, loosen the captive retaining hardware at the top and bottom of the assembly, then firmly pull on the handle (or on any connector on rear panel adapter cards) at the bottom of the card. Slide the card free of the frame. Refer to the SETUP section for any required switch settings; or, set them identically to the card being replaced. Reinstall the card in the frame by fitting it into the card guides at the top and bottom of the frame and sliding it in slowly, avoiding contact between bottom side of card and adjacent card front panel, until it mates with the connector. Seat card firmly to avoid contact bounce. Secure the retaining screws at the top and bottom of the card assembly.

2.3. SETUP

This card has no setup requirements. However, for proper operation, the 50 Ohm terminator for each Timing Signal **must** be enabled or disabled to match the driving source (see the Chassis Manual for information).

2.4. FAULT INDICATION

This card has no fault indication.

2.5. MAINTENANCE

This card has no maintenance requirements.

SECTION THREE

3. THEORY OF OPERATION

3.1. GENERAL INFORMATION

This section contains a detailed description of the circuits in the Timing Input Module. These descriptions should be used in conjunction with the drawings in SECTION FOUR.

3.2. HARDWARE DESCRIPTION

The Timing Input Module incorporates 6 BNC input connectors which support the input of signals IN1 through IN6 via INPUT 1 through INPUT 6, respectively.

3.3. DETAILED DESCRIPTION

Reference drawing 560-5186. Each BNC connector, INPUT 1 through INPUT 6, is DC-coupled via a 50 ohm controlled-impedance trace, to signal IN1 through IN6, respectively, on the backplane.

SECTION FOUR

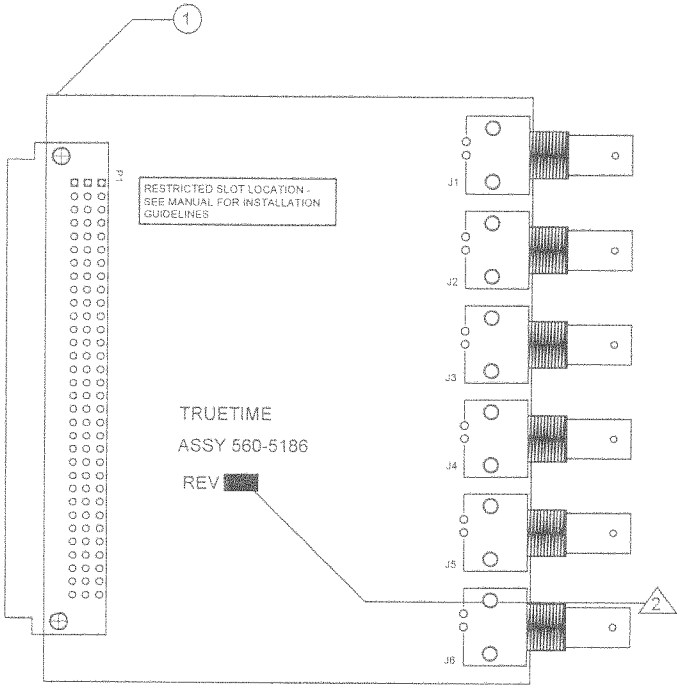
4. DETAILED DRAWINGS

4.1. 560-5186 DETAILED DRAWINGS / BILL OF MATERIALS

NOTES: UNLESS OTHERWISE SPECIFIED

1. VALUES OF RESISTORS ARE IN OHMS AND CAPACITORS ARE IN uF
2. STAMP REVISION LEVEL.
3. ASSEMBLE PER ASSEMBLY REQUIREMENTS DOCUMENT 421-11.

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED



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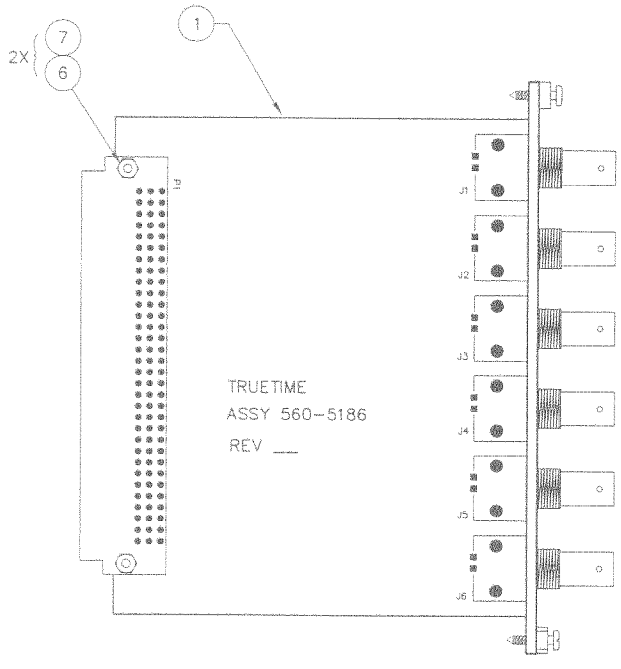
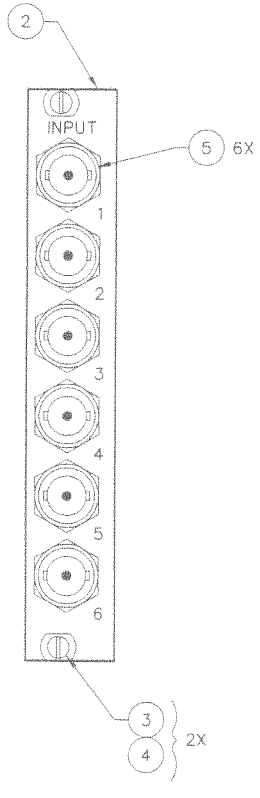
CONTRACT NO.		
APPROVALS		DATE
DRAWN BY	S.B.K.	5-5-97
CHECKED		
APPROVED		5/97
NEXT ASSY		

TrueTime, Inc.
Santa Rosa, California

Title	ASSY DRAWING TIMING INPUT MODULE, HEX	
Size B	Number 560-5186	Rev 01
Date 5-5-97		S.B.K.
Filename 2186.PCB		Sheet 1 of 3





NEXT ASSY	SIZE	CODE IDENT NO.	DRAWING NO.	REV
	B		560-5186	01
FILENAME: \560\5186B DATE: 5-12-97	SCALE NONE		SHEET 2 OF 3	

MAX * BILL OF MATERIALS * SINGLE-LEVEL EXPLOSION BY PART IDENTIFIER W/REFERENCE

PART IDENTIFIER	DESCRIPTION 1	DESCRIPTION 2	EFF DATE	ECN #	QTY/ASSY	UOM	REV LVL	REFERENCE DESCRIPTION
560-5186	TIMING INPUT MODULE,HEX	MADE FROM 560-2186				EA		
								DR 7/98
0000-APPROVAL	PARTS LIST APPROVAL		0000		1.0000	EA		
0000-PL	PARTS LIST REV LEVEL		0000		1.0000	EA		REV 01 (07-24-98)
0000-PRINT	REFERENCE PRINT		0000		1.0000	EA		560-5186 REV 01
0000-REV	PCB REV LEVEL HERE >>>>		0000		1.0000	EA		560-2186 REV 01
223-138	SCREW SH CH ZN M2.5X10	SCHROFF #21100-138	0000		2.0000	EA		06
223-144	NUT M2.5	SCHROFF #21100-144	0000		2.0000	EA		07
223-379	SCREW CAP NP M2.5 X 11	SCHROFF #21100-379	0000		2.0000	EA		03
223-464	SLEEVE, STAINLESS	SCHROFF 21100-660	0000		2.0000	EA		04
372-96RA	CONN,96-P FM DIN RT ANGLE	BERG 68353-296	0000		1.0000	EA		P1
375-022	LOCKWASHER,BNC PC MT	AMP 1-329632-2	0000		6.0000	EA		FOR J1-J6
375-023	NUT BNC PC MT	AMP 1-329631-2	0000		6.0000	EA		
	ITEM 05 (J1-J6) DO NOT USE THE NUT THAT COMES WITH CONNECTOR							
375-026	BNC, PCB MNT, LOW PROFILE	AMP 413879-1	0000		6.0000	EA		J1-J6
560-1227	REAR PNL,TIMING INPUT HEX	SCREEN	0000		1.0000	EA		02
560-2186	TIMING INPUT MODULE,HEX	FAB	0000		1.0000	EA		01
LA	LABOR ASSEMBLY COST HRS		0000		0	EA		
LT	LABOR TEST COST HOURS		0000		0	EA		
OSV560-5186	OUTSIDE LABOR 560-5186	PCA	0000		1.0000	EA		