

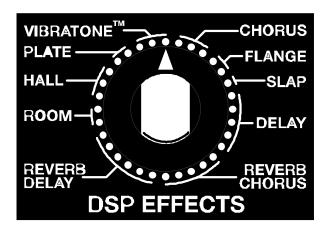
SFX DSP MODULE

p/n 005-3876-008

SERVICE MANUAL

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Fender Musical Instruments Corp. 7975 North Hayden Road Scottsdale, AZ 85258

SFX DSP MODULE

(This is the model name for warranty claims)

SERVICE MANUAL

MAY 1998

IMPORTANT NOTICE:

Warranty philosophy on the DSP module is to replace, rather than repair it. The information presented in this manual is for reference when servicing one of the units that this product is utilized in.

The information contained herein is CONFIDENTIAL and PROPRIETARY to Fender Musical Instruments Corp. It is disclosed solely for use by qualified technicians for purposes of equipment maintenance and service. It is not to be disclosed to others without the expressed permission of Fender Musical Instruments Co. All specifications subject to change without notice.

For warranty repair service, only Fender specified part numbers are to be used. It is recommended they also be used for post-warranty maintenance and repair.

Parts marked with an asterisk (*) indicate the required use of that specific part. This is necessary for RELIABILITY and SAFETY requirements. **DO NOT USE A SUBSTITUTE!**

A coded naming convention is used in the description of certain parts. The codes and what they mean are as follows:

CAPACITOR CODES

HARDWARE CODES

CAP AE	=	Aluminum Electrolytic	BLX	=	Black Oxide
CAP CA	=	Ceramic Axial	CR	=	Chrome Plated
CAP CD	=	Ceramic Disk	HWH	=	Hex Washer Head
CAP MPF	=	Metalized Polyester Film	M	=	Machine Screw
CAP MY	=	Mylar	NI	=	Nickel Plated
CAP PFF	=	Polyester Film/Foil	OHP	=	Oval Head Phillips
			PB	=	Particle Board
RESISTOR	CC	<u>DDES</u>	PHP	=	Pan Head Phillips
			PHPS	=	Pan Head Phillips Sems
RES CC	=	Carbon Comp	SMA	=	Sheet Metal "A" Point
RES CF	=	Carbon Film	SMB	=	Sheet Metal "B" Point
RES FP	=	Flame Proof	SS	=	Stainless Steel
RES MF	=	Metal Film	TF	=	Thread Forming
RES WW	=	Wire Wound	ZI	=	Zinc Plated

SFX DSP MODULE SFX DSP MODULE

SPECIFICATIONS

Product Release No.: PR 369 (This is not a model number)

Part Number:

PART NO.	PRODUCT
0053876008	All (DSP board w/o Eprom)
0053874008	SFX Satellite
0053875008	SFX Keyboard
0053567008	Acoustasonic SFX

^{****} Note; Blank rows are provided for adding future products, as they become available. ****

Power Requirements: Board runs off of +5 Volts supplied by host product

Dimensions: Unit is contained on one 3.2" x 5.1" PC board

Product specifications are subject to change without notice

CIRCUIT NOTES

*** PLEASE NOTE: THIS MODULE IS ESD SENSITIVE. USE ANTI - STATIC PRECAUTIONS ***

POWER FOR DSP CARD

The +5 volts for the **DSP** card is supplied by a regulated +5V supply in the Host product.

SELF - TEST OF DSP MODULE

To initiate self - test of the **DSP** module, short **TP2** to **TP1** while turning power from off to on. Self - test pass is indicated when the yellow LED remains on continuously. Failure is indicated when the red LED blinks, or the yellow LED fails to light. If a passing condition exists, the module will operate in the loopback mode until the power is cycled off to on with **TP2** not shorted to **TP1**. In the loopback mode the module's output (at **TP9** and **TP10**) will be a replica of the input signals (**TP6** and **TP8**).

TP2 is the inboard end of R14; TP1 is ground, and is found on pins 2, 4, and 6 of P1 (also, the chassis of the host product)].

When test mode is initiated, 2 tests will be performed:

- a) EPROM test
- b) RAM test
- c) After passing these tests (estimated time = 10 ms), the module goes into loopback mode.

SFX DSP MODULE

PARTS LIST

NOTE: SHADED ITEMS ARE FOR REFERENCE ONLY

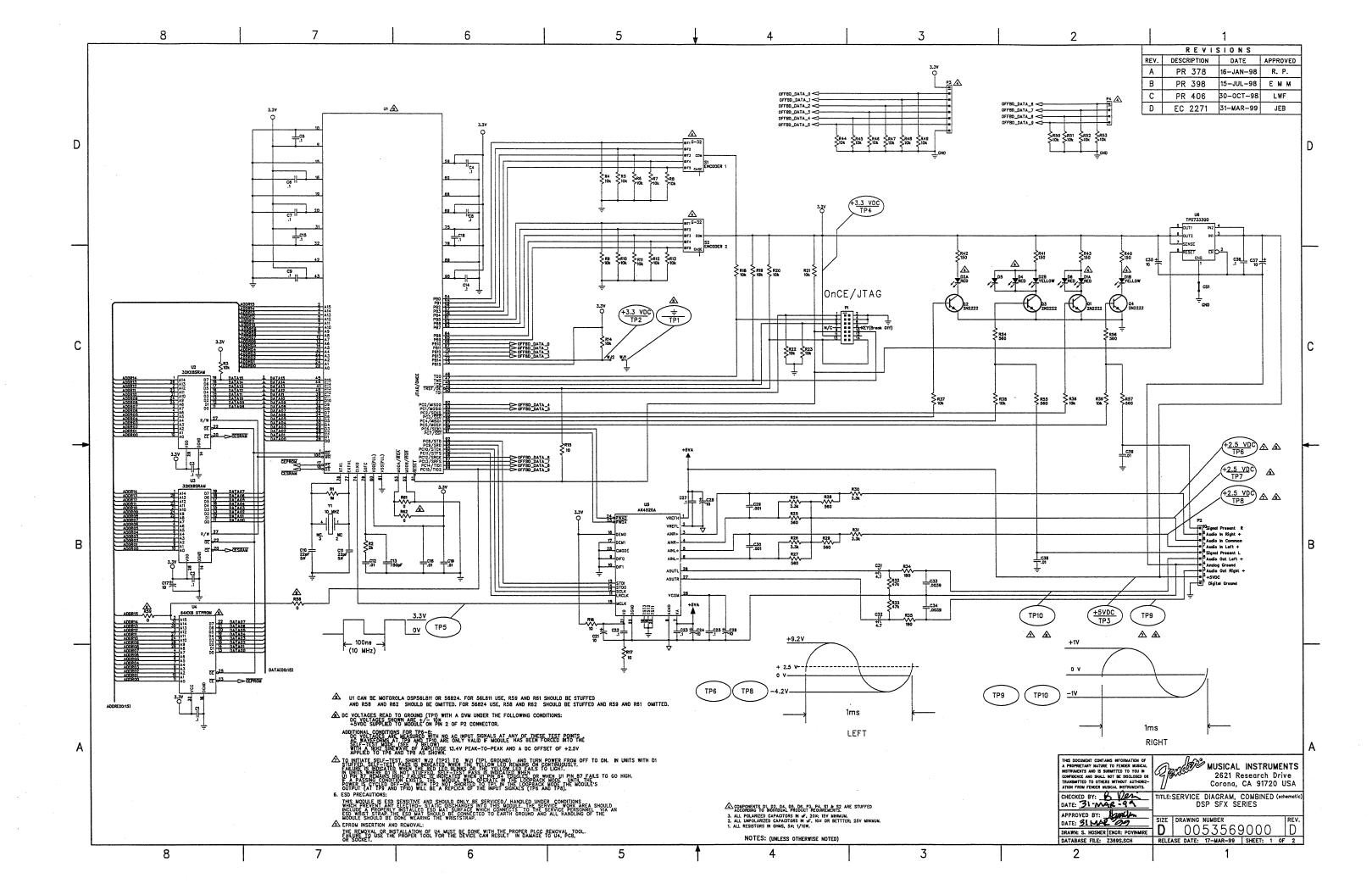
EPROMS

QTY	PART#	DESCRIPTION	REFERENCE DESIGNATION
1	053871	IC EPROM ACST SFX	ACOUSTASONIC SFX
1	053872	IC EPROM SFX SATELLITE	SFX SATELLITE
1	053873	IC EPROM SFX KEYBOARD 200	SFX KEYBOARD 200

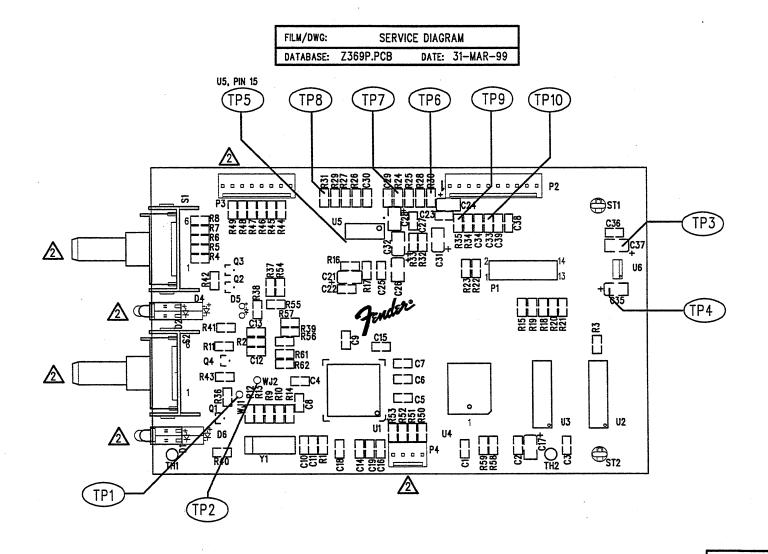
OTHER PARTS

QTY	PART#	DESCRIPTION	REFERENCE DESIGNATION
1	048332	LED RED PNL MT 7"	USED ON SFX SATELLITE

^{****} Note; Blank rows are provided for adding future products, as they become available. ****



	REVISIONS					
REV.	DESCRIPTION	DATE	APPROVED			
Α	PR 378	16-JAN-98	R.P.			
В	PR 398	15-JUL-98	ЕММ			
С	PR 406	30-0CT-98	LWF			
D	EC 2271	31-MAR-99	JEB			



CONFIGURATIONS.

INSTRUMENTS AND IS SUBMITTED TO YOU IN CONFIDENCE AND SHALL NOT BE DISCLOSED OR TRANSMITTED TO OTHERS WITHOUT AUTHORIZ-ATION FROM FENDER MUSICAL INSTRUMENTS.

CHECKED BY: CK DATE: 31-MAR-99

THIS DOCUMENT CONTAINS INFORMATION OF

A PROPRIETARY NATURE TO FENDER MUSICAL

APPROVED BY: AP DATE:

DRAWN: S. HOSNER

ENGR: R. POVINMIRE DATABASE FILE: Z369P.PCB

30 MAR 99

MUSICAL INSTRUMENTS 2621 Research Drive Corona, CA 91720 USA

REV.

OF

TITLE: SERVICE DIAGRAM, COMBINED (PCB assy) DSP SFX SERIES

DRAWING NUMBER 0053569000 SIZE B RELEASE DATE: 16-JAN-98 SHEET

1. SEE SHEET 1 FOR TEST CONDITIONS AND TEST POINT VALUES.

REFERENCE MASTER ASSEMBLY DRAWING 0053567000

3. TEST POINT LOCATIONS AND VALUES ARE VALID FOR ALL PRODUCT

COMPONENTS D1, D2, D4, D5, D6, P3, P4, S1 & S2 ARE STUFFED ACCORDING TO INDIVIDUAL PRODUCT REQUIREMENTS. SEE SPECIFIC PRODUCT BILL OF MATERIALS TO DETERMINE WHICH COMPONENTS SHOULD BE PRESENT.

NOTES: (UNLESS OTHERWISE NOTED)