

TEXAS INSTRUMENTS

Improving Man's Effectiveness Through Electronics

Model 990 Computer Product Documentation Package

TX AMPL
Release 2.2 (Object)

No. 2261789-0001 Rev. _____

© Copyright 1978
Texas Instruments Incorporated

Digital Systems Division



Table of Contents

1. Package Inventory for TX-AMPL (937872)
2. Diskette Catalogs
 - 2.1 913VDT System 939801-9901
 - 2.2 733ASR System 939801-9902
 - 2.3 911VDT System 939801-9903



TEXAS INSTRUMENTS
INCORPORATED
Equipment Group Dallas, Texas

PRODUCTION DOCUMENTATION PACKAGE, TX-AMPL SOFTWARE
(OBJECT)-990

SIZE	CODE IDENT NO	DRAWING NO
A	96214	2261789-9901
SCALE	REV.	SHEET 1 of 2

Package Inventory for TX-AMPL (937872)

A. Software Media: Part number: 939801-0001,-0002,-0003

<u>Package Dash Number</u>	<u>Media Type</u>
-0003	Diskettes

B. Documentation Includes:

- | | |
|--|---------------------------|
| 1. Installation Manual (Packaged with the media) | 2261787-9701 (one copy) |
| 2. Product Documentation Package (this document) | 2261789-0001 (one copy) |
| 3. AMPL Language Tutorial Manual | 949621-9701 (one copy) |
| 4. AMPL System Operation Guide | 946244-9701 (one copy) |
| 5. AMPL Programming Card | 946265-9701 (five copies) |
| 6. AMPL System OP. Guide, Proto.Sys.Upgrade | 949620-9701 (one copy) |



TEXAS INSTRUMENTS
INCORPORATED
DIGITAL SYSTEMS DIVISION
HOUSTON TEXAS

A

2261789-9901
SHEET 2 of 2

REV

DISKETTE CATALOG

DISC I.D.: AMPL 913 SYSTEM 939801-0001*C

DK02 ALLOC. UNITS(TOTAL): 333 FREE: 25 BAD: 0

FILE	TYPE	PT	ALLOC. UNITS
AMPDSR/OBJ	S	U	8
AMPHDT/PRC	S	U	12
AMPL/SYS	S	U	52
AMPSE1	R	U	18
ASRKSr/PRC	S	U	8
CHKSUM/PRC	S	U	8
DEBUG/DOC	S	U	18
DEBUG/PRC	S	U	14
DUMPS/PRC	S	U	15
FNDBYT/PRC	S	U	8
FNDWRD/PRC	S	U	8
HIST/PRC	S	U	8
INSTR/PRC	S	U	8
RESOLV/PRC	S	U	8
SB/PRC	S	U	12
SETMEM/PRC	S	U	8
SIE/PRC	S	U	8
STAT/PRC	S	U	8
SYS913/AMP	S	U	41
TDUMPS/PRC	S	U	8
TIMER/PRC	S	U	8
TRACE/PRC	S	U	8
TRSAVR/PRC	S	U	8

** SYSTEM RESERVED AU'S = 6



TEXAS INSTRUMENTS
INCORPORATED
DIGITAL SYSTEMS DIVISION
HOUSTON TEXAS

A

939801-9901
SHEET 2 of 2

REV

C

DISKETTE CATALOG

DISC I.D.: AMPL 733 SYSTEM 939801-0002*C

DK01 ALLOC. UNITS(TOTAL): 333 FREE: 90 BAD: 0

FILE	TYPE	PT	ALLOC. UNITS
AMPHDT/PRC	S	U	9
ASRKS/PRC	S	U	8
BLWP/PRC	S	U	8
CHKSUM/PRC	S	U	8
DEBUG/DOC	S	U	14
DEBUG/PRC	S	U	8
EDUMP/PRC	S	U	8
ESTAT/PRC	S	U	8
FND/PRC	S	U	8
FNDWRD/PRC	S	U	8
INTR/PRC	S	U	8
RTWP/PRC	S	U	8
SETMEM/PRC	S	U	8
SIE/PRC	S	U	8
SYS733/AMP	S	U	70
TDATA/PRC	S	U	8
TDUMP/PRC	S	U	8
TEDUMP/PRC	S	U	8
TIMER/PRC	S	U	8
TRACE/PRC	S	U	8
TSTAT/PRC	S	U	8

** SYSTEM RESERVED AU'S = 6



TEXAS INSTRUMENTS
INCORPORATED
DIGITAL SYSTEMS DIVISION
HOUSTON TEXAS

A

939801-9902
SHEET 2 of 2

REV

C

DISKETTE CATALOG

DISC I.D.: AMPL 911 SYSTEM 939801-0003*C

DK01 ALLOC. UNITS(TOTAL): 333 FREE: 24 BAD: 0

FILE	TYPE	PT	ALLOC. UNITS
AMPDSR/OBJ	S	U	8
AMPHDT/PRC	S	U	12
AMPL/SYS	S	U	52
AMPSE1	R	U	18
ASRKSR/PRC	S	U	8
CHKSUM/PRC	S	U	8
DEBUG/DOC	S	U	18
DEBUG/PRC	S	U	14
DUMPS/PRC	S	U	15
FNDBYT/PRC	S	U	8
FNDWRD/PRC	S	U	8
HIST/PRC	S	U	8
INSTR/PRC	S	U	8
RESOLV/PRC	S	U	8
SB/PRC	S	U	12
SETMEM/PRC	S	U	8
SIE/PRC	S	U	8
STAT/PRC	S	U	8
SYS911/AMP	S	U	42
TDUMPS/PRC	S	U	8
TIMER/PRC	S	U	8
TRACE/PRC	S	U	8
TRSAVR/PRC	S	U	8

** SYSTEM RESERVED AU'S = 6



TEXAS INSTRUMENTS
INCORPORATED
DIGITAL SYSTEMS DIVISION
HOUSTON TEXAS

A

939801-9903
SHEET 2 of 2

REV

C



SOFTWARE SUBSCRIPTION UPDATE

SUBSCRIPTION TX/AMPL OBJECT
 SUBSCRIPTION NUMBER 937880-0003
 UPDATE FROM 11-15-77 TO 1-15-78
 MEDIA diskette
 SHEET 1 OF 1

DESCRIPTION OF CHANGES

PART CHANGED	DESCRIPTION OF CHANGE	CONTAINED IN PACKAGE
TX/AMPL	Release 2.1 of the TX-AMPL Software Package (Release 1.1 of the Prototyping System upgrade) has been issued, effective 15 January 1978. Refer to the update document (2261788-9901) for details.	937832*D

LIST OF MATERIALS:

1. 2261788-9901**Update Document, TX-AMPL, Release 2.1
2. 937872-0003*D TX-AMPL Software (omit mn1 946265-9701)

This release of the AMPL software package serves three primary functions: (1) Provide emulation support for the TMS9980 microprocessor (2) Enhance the AMPL software functions and (3) Fix all known software problems discovered in the previous release.

The updates to support the TMS9980 emulator are transparent to the user for the most part. Changes were made to the device interface routines for the emulator and very minor changes were made to the AMPL functions to support the operational differences between the 9980 and the 9900 buffer modules.

A new command was added to the AMPL functions to allow the user to exit AMPL, edit a procedure using the TX Text Editor, and return to AMPL without destroying the current operating environment. The ability to enter expressions (as opposed to just constants) on the AMPL Read function was also added. A new set of procedures were added to the AMPL procedure library to simplify setup of the emulator and trace module trace and breakpoint specification. Other minor changes were made to the AMPL system and all are well documented in the the updated users guide.

The "EINT" command was updated to be more reliable in initializing the emulator to some known state particularly after changing the clock source for the microprocessor(i.e. "internal", or "external"). A problem was also fixed in the target CRU functions which was causing data to be read and written incorrectly. The automatic read after write function check was removed from the AMPL software to allow the user to do memory mapped I/O if he chooses without getting error messages.

The goal of this release is to increase the usefulness and reliability of the AMPL system. Any questions, problems or suggestions concerning the AMPL system should be directed to the Customer Support Staff of TEXAS INSTRUMENTS INCORPORATED.