

TM 9-4931-381-14&P-3

TECHNICAL MANUAL

**OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT,
AND GENERAL SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS
LIST (INCLUDING DEPOT MAINTENANCE REPAIR
PARTS AND SPECIAL TOOLS)**

**VOLUME. V
SCHEMATICS**

THERMAL SYSTEM TEST SET

(4931-01-119-7092)

DISTRIBUTION STATEMENT: Approved for public release; distribution is unlimited.

HEADQUARTERS, DEPARTMENT OF THE ARMY

DECEMBER 1986

**HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, D.C. 31 December 1986**

**TECHNICAL MANUAL
OPERATOR'S, ORGANIZATIONAL,
DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL
INCLUDING REPAIR PARTS AND SPECIAL TOOLS LIST
INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS
THERMAL SYSTEM TEST SET
(4931-01-119-7092)**

RPSTL current as of technical manual date

Software PN 12303273 Revision C, current as of technical manual date.

Reporting Errors and Recommending Improvements

You can help improve this manual. If you find any mistakes or if you know a way to improve the procedures, please let us know. Mail your letter DA Form 2028 (Recommended Changes to Publication and Blank Forms), or DA Form 2028-2 located in back of this manual direct to: Commander, US Army Armament, Munitions and Chemical Command, ATTN: AMSMC-MAS, Rock Island, IL 61299-6000. A reply will be furnished to you.

DISTRIBUTION STATEMENT: Approved for public release; distribution is unlimited.

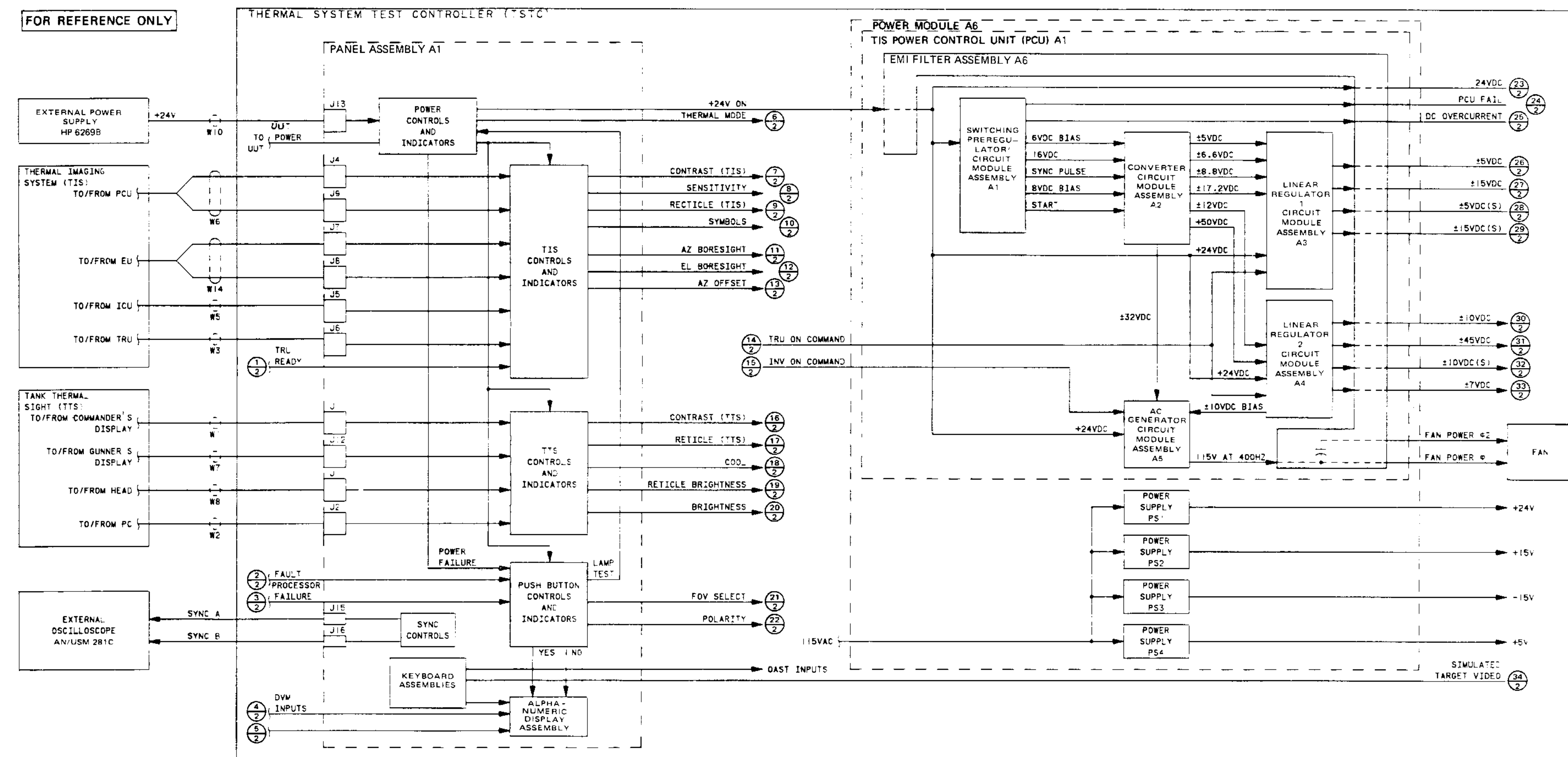
NOTE

This manual is divided into three bindings. The first binding consists of volumes I, II, and III and front matter for all three bindings. The second binding consists of volume IV and an index for volumes I through IV. Test set schematic and functional diagrams are contained in the third binding.

LIST OF ILLUSTRATIONS

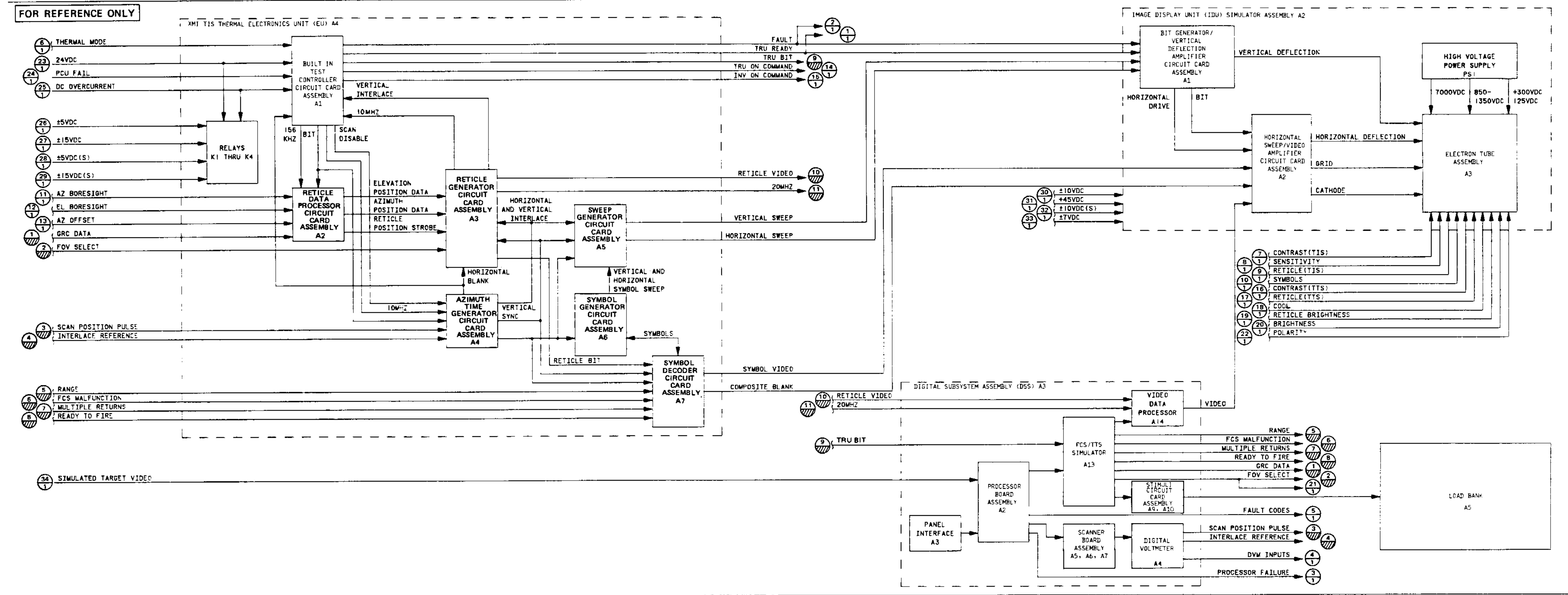
<u>FIGURE</u>	<u>TITLE</u>	<u>PAGE</u>
F0-1	Thermal System Test Set (TSTS) Functional Block Diagram	FP-1
F0-2	Internal Harness Interconnection Diagram	FP-5
F0-3	Panel Assembly A1 Schematic Diagram	FP-7
F0-4	IDU Simulator Assembly A2 Schematic Diagram	FP-13
F0-5	DSSMotherboard Wiring Diagram	FP-15
F0-6	Electronic Unit (EU) A4 Schematic Diagram	FP-25
F0-7	Load Bank A5 Schematic Diagram	FP-31
F0-8	Power Module A6 Shematic Diagram	FP-37
F0-9	Power Control Unit (PCU) A6A1 Schematic Diagram	FP-45
F0-10	Common Power Control Unit (PCU) A6A1 Schematic Diagram . .	FP-47
F0-11	Internal TTS Interconnect Harness W13 Wiring Diagram	FP-49
F0-12	Internal TIS Interconnect Harness W14 Wiring Diagram	FP-51
F0-13	Internal PCU Interconnect Harness W15 Wiring Diagram	FP-55
F0-14	Internal Panel Interconnect Harness W16 Wiring Diagram . .	FP-61
F0-15	Internal Power Distribution Harness W17 Wiring Diagram . .	FP-63
F0-16	Internal TIS Interconnect Harness W19 Wiring Diagram	FP-65
F0-17	Shorting Plug Connectors Wiring Lists	FP-67
F0-18	PCU Holding Fixture Schematic Diagram	FP-69
F0-19	Cable Assembly W9/Video Multiplexer Assembly Schematic Diagram	FP-71

FOR REFERENCE ONLY



ARR82-24518

FO-1. Thermal System Test Set (TSTS) Functional Block Diagram (Sheet 1 of 2)



ARR82-24519

FO-1. Thermal System Test Set (TSTS) Functional Block Diagram (Sheet 2 of 2)