TECHNICAL MANUAL

OPERATOR'S ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL FOR

SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)1 (NSN 5895-00-949-5868)
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)2 (NSN 5895-00-949-5906)
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)3 (NSN 5895-00-948-5606)
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)4 (NSN 5895-00-948-5642)
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)5 (NSN 5895-00-949-5900)
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)6 (NSN 5895-00-948-6410)
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)7 (NSN 5895-00-948-5689)
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)8 (NSN 5895-00-948-5680)
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)9 (NSN 5895-00-930-2643)
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)10 (NSN 5895-00-949-5902)
AND
SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)12
(CONSOLE REMOTE EQUIPMENT) (NUS 7643)

HEADQUARTERS, DEPARTMENT OF THE ARMY
JUNE 1976

PREFACE

1. INTRODUCTION

The assigned nomenclature for the equipment covered by this maintenance manual is Communications Switching Set AN/MSQ-74(V)1 through AN/MSQ-74(V)10; the manufacturer's designation for the equipment is Console Remote Equipment ET-A Type NUS 7640. This preface explains the organization and maintenance level of the manual; gives cross-references of manufacturers' designations or common names versus official nomenclature, and lists publications describing related equipment in the ET-A Console System.

2. Organization of the Manual

a. PART ONE contains chapters 1 through 4. Chapter 1 covers Introduction and Description, and chapter 2 covers Installation. Chapter 3, Functioning of Equipment, is written at discrete block diagram levels, emphasizing the functional interrelations of logic and audio circuitry rather than the circuit details of the modules themselves. Chapter 4, Maintenance, is concerned with localizing trouble to particular modules, rather than with repair of the modules themselves.

b. PART TWO, which consists of chapter 5, contains all oversize diagrams referred to in chapters 1 through 4, and a complete set of functional logic, schematic, and interconnection diagrams.

c. PART THREE container the following appendixes:

(1) Appendix I, Mnemonics

(2) Appendix II, Checkout Procedures

(S) Appendix III, Difference Data

d PART FOUR contains descriptions, schematics, and parts location data of all the types of modules employed in the Console Remote Equipment.

e. PART FIVE contains operational and maintenance information for the DC Duplexed Power Systems.

3. Maintenance Level

The Console Remote Equipment conforms to a modular concept and is maintained to the direct support (3rd echelon) level. Maintenance to this level of support is concerned with localizing trouble to a particular module. When the trouble is localized, replace the defective module. Refer to Instruction Manual for Test Facilities Kit MK-884/FRC-81( ), TM 11-6625-647-14/1, -14/2 for maintenance information on the modules.

Technical Manual)
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HEADQUARTERS

DEPARTMENT OF THE ARMY

No. 11-5820-577-14/2 Washington, D.C., 11, June 1976

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SWITCHING SET, COMMUNICATINS AN/MSQ-74(v)10 (NSN 5895-00-949-5902)

AND

SWITCHING SET, COMMUNICATIONS AN/MSQ-74(V)12

(CONSOLE REMOTE EQUIPMENT) (NUS 7640)

REPORTING OF ERRORS

You can help improve this manual by calling attention to errors and bv recommending improvements and stating your reasons for the recommendations. Your letter or DA Form 2028 (Recommended Changes to Publications and Blank Forms) should be mailed direct to the Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703.

TABLE OF CONTENTS

PART TWO

		PARA.	Page
CHAPTER 5	DIAGRAMS		
	Content of chapter	5-1	5-1

NOTE

Page numbers are omitted on the following pages as the figures follow in consecutive order.

LIST OF ILLUSTRATIONS

PART TWO

Figure No.	Title
5-1	Console remote equipment van layout (BX2353106A)
5-2	Console remote equipment van, exterior connector panels
5-3	ET-A console system, functional block diagram
5-4	console remote equipment, overall block diagram
5-5	Audio equipment, functional block diagram
5-6	Connection matrix, functional block diagram
5-7	FST modem, tributary service receive and transmit circuits, functional block diagram
5-8	Digital signaling equipment, overall block diagram
5-9	RCR circuits, functional block diagram
5-10	TMC circuits, functional block diagram
5-11	SMC circuits, functional block diagram
5-12	SMC control contact circuits, simplified schematic diagram
5-13	RTC. circuits, functional block diagram
5-14	Typical RTG circuits, functional block diagram
5-15	Typical RTS circuits, functional block diagram
5-16	Maintenance equipment, overall block diagram
5-17	*Fault summary* and status circuits, functional block diagram
5-18	System *character* generator circuits, functional block diagram
5-19	Logic cards, internal test points
5-20	System character generator, control settings for format A
5-21	System character generator, control settings for format B
5-22	System character generator, control settings for format D, remote-to-local
5-23	System character generator, control settings for format D, remote-to-tributary
5-24	System character generator, control settings for format E
5-25	Power fault troubleshooting diagram (28 sheets)
5-26	Logic fault troubleshooting diagram (50 sheets)
5-27	Character generator troubleshooting diagram (2 sheets)
5-28	CRE ac power distribution diagram (F2351942) (3 sheets)

List of Illustrations (cont)

Part two (cont)

Figure No.	Title
5-29	CRE dc power distribution diagram (F2351878) (2 sheets)
5-30	CRE signal cabling diagram (F2351877) (3 sheets)
5-31	Unit 1 distribution frame wiring list (B2353650) (15 sheets)
5-32	Unit 4, RCR logic diagram (F2351947) (15 sheets)
5-33	Unit 4 RCR power distribution schematic (F2351863)
5-34	Units 5, 6, 7, RTG and RTS, logic diagram (F2351945) (15 sheets)
5-35	Units 5, 6, 7, RTG and RTS, power distribution schematic (F2351865)
5-36	Unit 8, TMC and RTC logic diagram (F2351943) (27 sheets)
5-37	Unit 8, TMC and RTC power distribution diagram (F2351866) (2 sheets)
5-38	Unit 9, SMC logic diagram (F2351900) (15 sheets)
5-39	Unit 9, SMC power distribution schematic (F2351864) (2 sheets)
5-40	Unit 10, RFM schematic and inter connection diagram (F2351872) (16 sheets)
5-41	Unit 10, audio panel schematic (2351870)
5-42	Unit 10, character generator (SCG) logic diagram (F2351842) (13 sheets)
5-43	Unit 10, printer supply schematic (F2351871)
5-44	Unit 10 RFM power distribution schematic (F2351933) (2 sheets)
5-45	Unit 11, audio (RAC) schematic and inter connection diagram (E2351924) (9 sheets)
5-46	Unit 11, audio (RAC) power distribution schematic (F2351925)
5-47	Unit 12, FST modem (RTY) schematic and interconnection diagram (F2351917) (3 sheets)
5-48	Unit 12, mainline terminal panel schematic (D2351934)
5-49	Unit 12 tributary transmit line terminal panel schematic (F2351848)
5-50	Unit 12, tributary receive line terminal panel schematic (F2351849)
5-51	Unit 12, FST modem (RTY) power distribution schematic (F2341851)

LIST OF ILLUSTRATIONS (cont)

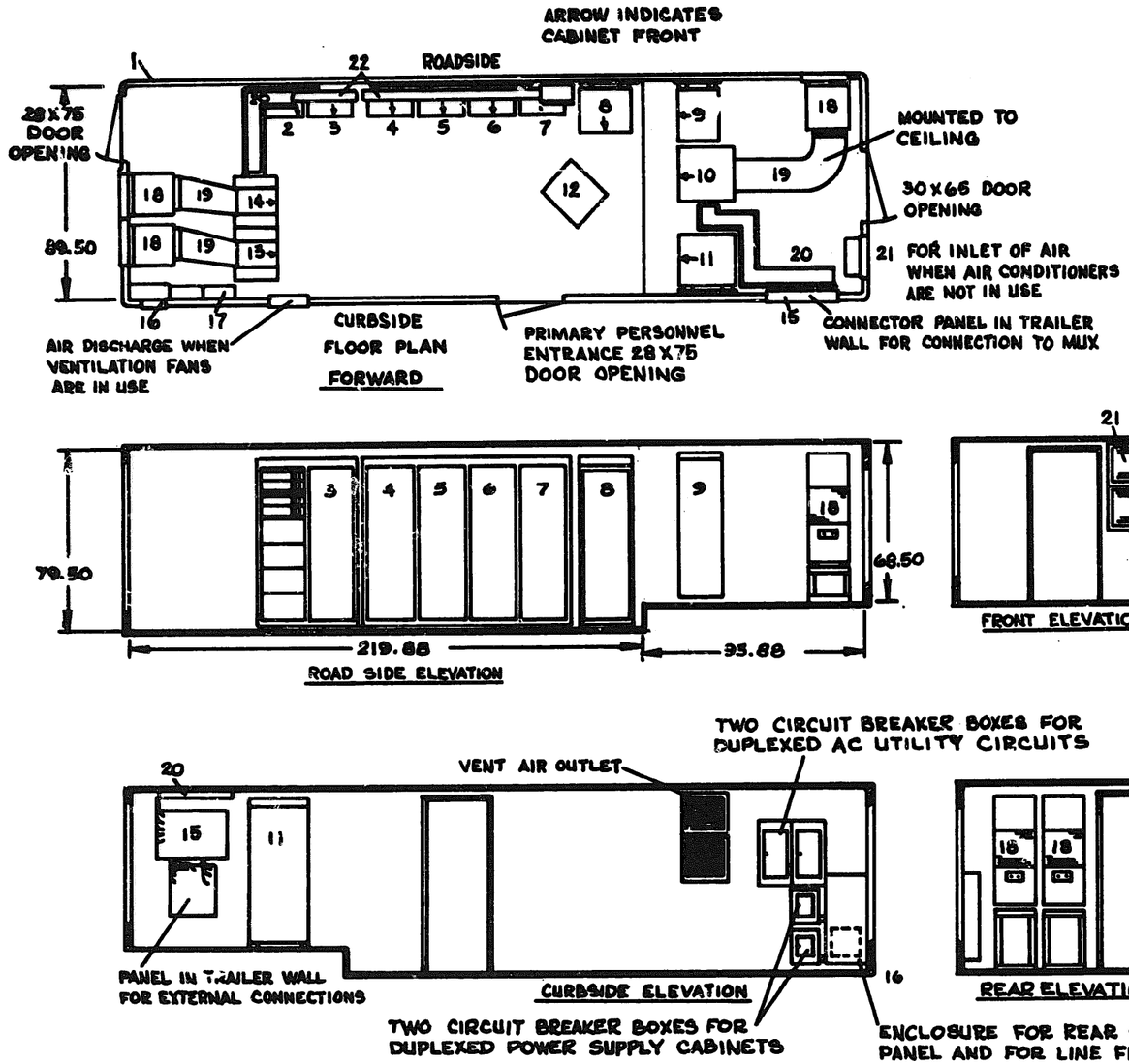
PART TWO (cont)

Figure No.	Title
5-52	Unit 13, connection matrix (RMC) schematic and inter-connection diagram (F2351902) (8 sheets)
5-53	Unit 13 connection matrix (RMC) Power distribution schematic (D2351904)
5-54	Unit 25, maintenance test mobile cabinet, power distribution schematic (C2351935)

CHAPTER 5

5-1. CONTENT OF CHAPTER

This chapter contains block diagrams, troubleshooting diagrams, functional logic diagrams, and schematic diagrams. Illustrations referenced in chapters 1 through 4 of Part One which are of oversize dimensions are sequenced in this volume in the order of text references. Functional logic and schematic diagrams are grouped for each equipment cabinet and listed in the order of ascending unit numbers.



ITEM	DESCRIPTION
1	UNIT 1, CONSOLE REMOTE EQUIPMENT VAN
2	UNIT 4, REMOTE COMMAND RECEIVE
3	UNIT 5, TRIBUTARY CONTROL
4	UNIT 6, TRIBUTARY CONTROL
5	UNIT 7, TRIBUTARY CONTROL
6	UNIT 8, TRUNK MATRIX CONTROL
7	UNIT 9, SELECT MATRIX CONTROL
8	UNIT10, MAINTENANCE TEST FIXED CABINET
9	UNIT 11, AUDIO CABINET
10	UNIT 12, FST MODEM CABINET
11	UNIT 13, MATRIX CABINET
12	UNIT 25, MAINTENANCE TEST MOBILE CABINET
13	UNIT 23, DC DUPLEXED POWER SYSTEM
14	UNIT 24, DC DUPLEXED POWER SYSTEM
15	SIGNAL DISTRIBUTION FRAME
16	AC POWER INPUT PANEL
17	FILTER AND CIRCUIT BREAKER BOX
18	UNITS 28, 29, 30, AIR CONDITIONERS
19	AIR DUCT
20	OVERHEAD CABLE TRAY
21	DUAL FAN HOUSING
22	FRAME

Figure 5-1. Console remote equipment, van layout.