TECHNICAL MANUAL

OPERATOR, ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT MAINTENANCE MANUAL

(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST)

FOR

TELEPHONE MONITORING SET

AN/GTA-19

NSN 5805-00-181-0246

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TELEPHONE MONITORING SET AN/GTA-19
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Current as of 16 February 1980

REPORTING OF ERRORS AND RECOMMENDING IMPROVEMENTS

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual directly to: Commander, US Army Electronics Materiel Readiness Activity, ATTN: SELEM-ME-E, Vint Hill Farms Station, Warrenton, Virginia 22186. A reply will be furnished to you.

			Paragraph	Page
CHAPTER	1.	INTRODUCTION		
Section	I.	General	1-1	1-1
	II.	Description and Data	1-7	1-1
CHAPTER	2.	SERVICE UPON RECEIPT AND INSTALLATION		
Section	I.	Systems Planning		
	II.	Site and Shelter Requirements	2-1	2-1
	III.	Service Upon Receipt of Material	2-3	2-1
	IV.	Installation Instructions	2-5	2-2
	V.	Preliminary Adjustment of Equipment	2-9	2-4
	VI.	Installation and Circuit Line-up		
CHAPTER	3.	OPERATING INSTRUCTIONS		
Section	I.	Controls and Instruments	3-1	3-1
	II.	Operation Under Usual Conditions	3-3	3-5
	III.	Operation Under Unusual Conditions		3-6
	IV.	Preparation For Movement		3-6
CHAPTER	4.	OPERATOR/CREW MAINTENANCE INSTRUCTIONS		
Section	I.	Tools and Equipment		4-1
	II.	Lubrication Instructions		4-1
	III.	Preventive Maintenance Checks and Services	4-1	4-1
	IV.	Troubleshooting	4-2	4-1
	V.	Maintenance	4-3	4-2

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			Paragraph	Page
CHAPTER	5.	ORGANIZATIONAL MAINTENANCE INSTRUCTIONS		
Section	I.	Tools and Equipment	5-1	5-1
	II.	Repainting and Refinishing Instructions	5-2	5-1
	III.	Lubrication Instructions		
	IV.	Preventive Maintenance Checks and Services (PMCS)	5-3	5-1
	V.	Troubleshooting	5-6	5-7
	VI.	Maintenance of the Monitoring Set	5-7	5-7
CHAPTER	6.	FUNCTIONING OF EQUIPMENT	6-1	6-1
Section	I.	General	6-1	6-1
	II.	Functioning of Audio Frequency Monitor	6-3	6-1
	III.	Functioning of Digital Display Indicator ID- 1682/GTA-19	6-17	6-15
CHAPTER	7.	DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE INSTRUCTIONS		
Section	I.	General	7-1	7-1
	II.	Tools and Equipment	7-3	7-37
	III.	Troubleshooting	7-5	7-37
	IV.	Maintenance of Telephone Monitoring Set AN/GTA-19	7-10	7-69
	V.	Direct Support and General Support Testing Procedures	7-13	7-71
CHAPTER	8.	MATERIEL USED IN CONJUNCTION WITH MAJOR ITEM	8-1	8-1
APPENDIX	A.	REFERENCES		A-1
APPENDIX	B.	COMPONENTS OF END ITEM LIST		
Section	I.	Introduction		B-1
	II.	Integral Components of End Item		B-2
	III.	Basic Issue Items		B-2
APPENDIX	C.	ADDITIONAL AUTHORIZATION LIST		C-1
APPENDIX	D.	MAINTENANCE ALLOCATION CHART		
Section	I.	Introduction		D-1
	II.	Maintenance Allocation Chart		D-3
	III.	Tool and Test Equipment Requirements		D-9
	IV.	Remarks		D-10
APPENDIX	E.	REPAIR PARTS AND SPECIAL TOOLS LIST		
Section	I.	Introduction		E-1
	II.	Repair Parts List		E-5
Group	00	Telephone Monitoring Set		E-5
	01	Audio Frequency Monitor TA-836/GTA-19		E-7
		0101 Chassis Components		E-11
		0102 Front Panel Components		E-15
		0103 Relay Panel and Filter Compartment Components		E-17
		0104 Rear Access Panel Components		E-19
		0105 Input Mode Assembly 1A52		E-23
		0106 Power Supply and Right Side Panel Components		E-25
		0107 Power Supply/Card Compartment Angle Bracket Components		E-29
		0108 Regulator Amplifier Assembly 1A2		E-33
		0109 Relay Control Assembly		E-37
		0110 Extension Card Assembly 1A18		E-41
		0111 Audible Alarm Assembly 1A19		E-43
		0112 DC Recovery Assembly		E-47
		0113 Warning Tone Assembly 1A35		E-51
		0114 Compressor Amplifier Assembly		E-55

			Paragraph	Page
Group	01	0115 Compressor Amplifier Assembly		E-59
		0116 Extension Card Assembly 1A51		E-63
		0117 Monitor Transit Case		E-65
		0118 AC Power Cable Assembly 1W2		E-67
		0119 DC Power Cable Assembly 1W3		E-68
		0120 Output Cable Assembly		E-71
	02	Digital Display Indicator ID-1682/GTA-19		E-73
		0201 Chassis Components		E-75
		0202 Front Panel Components		E-79
		0203 Component Board Assembly TB2		E-81
		0204 Power Supply Components		E-83
		0205 Component Board Assembly TB1		E-87
		0206 Filter Compartment Components		E-89
		0207 Rear Enclosure Components		E-91
		0208 Extender Card Assembly 2A1		E-93
		0209 Counter/Driver Circuit Assembly 2A2		E-95
		0210 Digit Counter Circuit Assembly 2A3		E-97
		0211 Digit Encoder Circuit Assembly 2A4		E-99
		0212 Counter Circuit Assembly		E-101
		0213 Matrix B Circuit Assembly		E-103
		0214 Touch-Tone Coupler, 3 Circuit, Assembly		E-105
		0215 4/2 Converter/Gate Circuit Assembly		E-107
		0216 4/2 Converter Circuit Assembly		E-111
		0217 Touch-Tone Coupler, 2 Circuit, Assembly		E-115
		0218 Tone Coder Assembly 2A37		E-117
		0219 High Detector Assembly 2A38		E-119
		0220 Low Detector Assembly 2A39		E-121
		0221 Amplifier/Limiter Assembly 2A40		E-123
		0222 Timer Circuit Assembly 2A41		E-127
		0223 AC Power Cable Assembly W1P1		E-129
		0224 DC Power Cable Assembly W2P1		E-130
		0225 Monitor Input Cable Assembly W3P2		E-131
		0226 Monitor Output Cable Assembly W4P3		E-132
		0227 Branched Telephone Cable Assembly CX-12978/GTA-19		E-133
Section III		Special Tools List		E-133
	IV.	National Stock Number and Part Number Index		E-134
APPENDIX	F.	EXPENDABLE SUPPLIES AND MATERIALS LIST		F-1
Section	I.	Introduction		F-1
	II.	Expendable Supplies and Materials List		F-2

LIST OF ILLUSTRATIONS

Figure		Page
1-1	Components of the Telephone Monitoring Set	1-2
2-1	Cable Connections	2-3
3-1	Monitor Controls, Indicators, and Connectors	3-1
3-2	Indicator Controls, Indicators, and Connectors	3-2
6-1	Telephone Monitoring Set AN/GTA-19, Block Diagram	6-2
6-2	Dc Recovery Input Circuit, 24 Volt Line Simplified Schematic Diagram	6-4
6-3	Dc Recovery Circuit (1A20 through 1A34) Schematic Diagram	6-5
6-4	Relay Control Circuit (1A3 through 1A17) Schematic Diagram	6-7
6-5	Audible Alarm Circuit (1A19) Schematic Diagram	6-9
6-6	Warning Tone Circuit (1A35) Schematic Diagram	6-11
6-7	Compressor Amplifier Circuit (1A36 through 1ASO) Schematic Diagram	6-13
6-8	Power Supply Input Circuit (Part of IA) Schematic Diagram	6-14
6-9	Regulator Amplifier Circuit (1A2) Schematic Diagram	6-16
6-10	Converter/Gate Circuit (2A1 1) Schematic Diagram	6-19
6-11	Gate Timing Diagram	6-20
6-12	Converter/Gate Circuit (2A12 through 2A18) Schematic Diagram	6-21
6-13	Amplifier/Limiter Circuit (2A40) Schematic Diagram	6-22
6-14	Low Detector Circuit (2A39) Schematic Diagram	6-24
6-15	High Detector Circuit (2A38) Schematic Diagram	6-25
6-16	Timer Circuit (2A41) Schematic Diagram	6-26
6-17	Timing Diagram	6-27
6-18	Tone Encoder Circuit (2A37) Schematic Diagram	6-28
6-19	Converter Driver Circuit (2A2) Schematic Diagram	6-29
6-20	Digit Counter Circuit (2A3) Schematic Diagram	6-30
6-21	Digit Encoder Circuit (2A4) Schematic Diagram	6-31
6-22	Counter Circuit (2A5, 2A7, 2A10, 2A20, 2A22, 2A25, 2A28, 2A31, 2A33, and 2A36) Schematic Diagram	6-32
6-23	Tone Coupler Circuit (2A8, 2A23, 2A30, and 2A35) Schematic Diagram	6-34
6-24	Matrix Circuit (2A6, 2A9, 2A19, 2A21, 2A24, 2A26, 2A27, 2A29, 2A32, and 2A34)	6-35
6-25	Indicator Power Supply Schematic Diagram	6-37
7-1	Regulator Amplifier Board 1A2 Check Points	7-5
7-2	Relay Control Boards 1A3 through 1A17 Check Points	7-6
7-3	Audible Alarm Board 1A19 Check Points	7-7
7-4	Dc Recovery Boards 1A20 through 1A34 Check Points	7-8
7-5	Warning Tone Board 1A35 Check Points	7-9
7-6	Compressor Amplifier Boards 1A36, 1A38, 1A40, 1A44, 1A46, 1A48, and 1A50 Check Points	7-10
7-7	Compressor Amplifier Boards 1A37, 1A39, 1A41, 1A43, 1A45, 1A47, and 1A49 Check Points	7-11
7-8	Counter Driver Board 2A2 Check Points	7-17
7-9	Digit Counter Board 2A3 Check Points	7-18
7-10	Digit Encoder Board 2A4 Check Points	7-19
7-11	Counter Boards 2A5, 2A7, 2A10, 2A20, 2A22, 2A25, 2A28, 2A31, 2A33, and 2A36 Check Points	7-20
7-12	Matrix Boards 2A6, 2A9, 2A19, 2A21, 2A24, 2A26, 2A27, 2A29, 2A32, and 2A34 Check Points	7-21
7-13	Touch Tone Coupler Boards 2A8, 2A23, 2A30, and 2A35 Check Points	7-22
7-14	Converter Gate Board 2A11 Check Points	7-23

LIST OF ILLUSTRATIONS - Continued

Figure		Page
7-15	Converter Boards 2A12, 2A13, 2A14, 2A15, 2A16, 2A17, and 2A18 Check Points	7-24
7-16	Tone Encoder Board 2A37 Check Points	7-25
7-17	High Detector Board 2A38 Check Points	7-26
7-18	Low Detector Board 2A39 Check Points	7-27
7-19	Amplifier/Limiter Board 2A40 Check Points	7-28
7-20	Timer Board 2A41 Check Points	7-29
7-21	Warning Tone Board 1A35 Waveforms	7-48
7-22	Monitor Power Supply Parts Location	7-51
7-23	Input Mode Board 1AS2, Front View	7-52
7-24	Input Mode Board 1A52, Rear View	7-53
7-25	Test Circuit For Troubleshooting the Monitor	7-55
7-26	Test Circuit for Troubleshooting the Indicator	7-60
7-27	Simulated Line Input Circuit	7-68
7-28	Indicator Power Supply Parts Location	7-69
7-29	Overall Operational Test Setup	7-72
7-30	Detailed Operational Test Setup, Dial Telephone	7-74
E-1	Telephone Monitoring Set AN/GTA-19	E-4
E-2	Audio Frequency Monitor TA-836/GTA-19	E-6
E-3	Chassis Components	E-8
E-4	Front Panel Components	E-14
E-5	Relay Panel and Filter Compartment Components	E-16
E-6	Rear Access Panel Components	E-18
E-7	Input Mode Assembly 1A52	E-21
E-8	Power Supply and Right Side Panel Components	E-24
E-9	Power Supply/Card Compartment Angle Bracket Components	E-28
E-10	Regulator Amplifier Assembly 1A2	E-32
E-l l	Relay Control Assembly 1A3 through 1A17	E-36
E-12	Extension Card Assembly 1A18	E-40
E-13	Audible Alarm Assembly 1A19	E-42
E-14	DC Recovery Assembly 1A20 through 1A34	E-46
E-15	Warning Tone Assembly 1A35	E-50
E-16	Compressor Amplifier Assembly 1A36, 1A38, 1A40, 1A42, 1A44, 1A46, 1A48, 1A50	E-54
E-17	Compressor Amplifier Assembly 1A37, 1A39, 1A41, 1A43, 1A45, 1A47, 1A49	E-58
E-18	Extension Card Assembly 1A51	E-62
E-19	Monitor Transit Case	E-64
E-20	AC Power Cable Assembly 1W2	E-67
E-21	DC Power Cable Assembly 1W3	E-68
E-22	Output Cable Assembly 1W4 through 1W18	E-70
E-23	Digital Display Indicator ID-1682/GTA-19	E-72
E-24	Chassis Components	E-74
E-25	Front Panel Components	E-78
E-26	Component Board Assembly TB2	E-80
E-27	Power Supply Components	E-82
E-28	Component Board Assembly TB1	E-86
E-29	Filter Compartment Components	E-88
E-30	Rear Enclosure Components	E-90
E-31	Extender Card Assembly 2A1	E-92

LIST OF ILLUSTRATIONS - Continued

Figure		Page
E-32	Counter/Driver Circuit Assembly 2A2	E-94
E-33	Digit Counter Circuit Assembly 2A3	E-96
E-34	Digit Encoder Circuit Assembly 2A4	E-98
E-35	Counter Circuit Assembly 2A5, 2A7, 2A10, 2A20, 2A22, 2A25, 2A28, 2A31,2A33, 2A36	E-100
E-36	Matrix B Circuit Assembly 2A6, 2A9, 2A19, 2A21, 2A24, 2A26, 2A27, 2A29, 2A32, 2A34	E-102
E-37	Touch-Tone Coupler, 3 Circuit, Assembly 2A8, 2A23	E-104
E-38	4/2 Converter/Gate Circuit Assembly 2A1	E-106
E-39	4/2 Converter Circuit Assembly 2A12 through 2A18	E-110
E-40	Touch-Tone Coupler, 2 Circuit, Assembly 2A30, 2A35	E-114
E-41	Tone Coder Assembly 2A37	E-116
E-42	High Detector Circuit Assembly 2A38	E-118
E-43	Low Detector Circuit Assembly 2A39	E-120
E-44	Amplifier/Limiter Circuit Assembly 2A40	E-122
E-45	Timer Circuit Assembly 2A41	E-126
E-46	AC Power Cable Assembly W1P1	E-129
E-47	DC Power Cable Assembly W2P1	E-130
E-48	Monitor Input Cable Assembly W3P2	E-131
E-49	Monitor Output Cable Assembly W4P3	E-132
E-50	Branched Telephone Cable Assembly CX-12978/GTA-19	E-133
FO-1	Audio Frequency Monitor TA-836/GTA-19 Block Diagram	FO-1
FO-2	Audio Frequency Monitor TA-836/GTA-19 Chassis Circuits Schematic Diagram	FO-2
FO-3	Audio Frequency Monitor TA-836/GTA-19 Chassis Wring Diagram	FO-3
FO-4	Digital Display Indicator ID-1682/GTA-19 Block Diagram	FO-4
FO-5	Digital Display Indicator ID-1682/GTA-19 Chassis Circuit Schematic Diagram	FO-5
FO-6	Digital Display Indicator ID-1682/GTA-19 Chassis Wiring Diagram	FO-6

LIST OF TABLES

Table No.		Page
1-1	Items Comprising an Operable Equipment	1-4
2-1	Fuses	2-3
3-1	Audio Frequency Monitor Operator's Controls	3-2
3-2	Digital Display Indicator Operator's Control	3-4
4-1	Operator/Crew Preventive Maintenance Checks and Services	4-3
5-1	Organizational Preventive Maintenance Checks and Services	5-2
5-2	Troubleshooting	5-8
6-1	Keyed Digits and Corresponding Tone Frequencies	6-17
6-2	Tone Encoder 2A37 Outputs	6-17
6-3	Counter States and Corresponding Digits	6-33
6-4	Binary Output and Corresponding Numeral Lighted on Digital Display Lamps	6-34
6-5	Correspondence of Digits and Touch-Tone Coupler Boards	6-36
7-1	Monitor Transistor Voltage Measurements	7-2
7-2	Indicator Transistor Voltage Measurements	7-12

LIST OF TABLES - Continued

Table No.		Page
7-3	Monitor Transistor Resistance Measurements	7-30
7-4	Indicator Transistor Resistance Measurements	7-31
7-5	Monitor Transformer, Coil, and Relay Resistance Measurements	7-35
7-6	Indicator Transformer Resistance Measurements	7-36
7-7	Operational Tests	7-38
7-8	Interunit Troubleshooting Chart	7-39
7-9	Localizing Troubles in the Monitor	7-41
7-10	Isolating Troubles in the Monitor	7-44
7-11	Short-Circuit Tests	7-54
7-12	Localizing Troubles in the Indicator	7-56
7-13	Isolating Troubles in the Indicator	7-61
7-14	Binary to Keyed Digit Cross Reference	7-73

CHAPTER 1

INTRODUCTION

Section I. GENERAL

1-1 SCOPE. This manual provides operator/crew, organizational, direct support, and general support instructions for the installation and maintenance of Telephone Monitoring Set AN/GTA-19 (figure 1-1). A repair parts and special tools list is also included.

1-2 MAINTENANCE FORMS AND RECORDS. Department of the Army forms and procedures used for equipment maintenance will be those prescribed by TM 38-750, The Army Maintenance Management System (TAMMS).

1-3 DESTRUCTION OF ARMY MATERIEL TO PREVENT ENEMY USE. The monitoring set will be destroyed to prevent enemy use in accordance with instructions provided in TM 750-244-2,' Procedures for Destruction of Electronics Materiel to Prevent Enemy Use (Electronics Command).

1-4 ADMINISTRATIVE STORAGE. Administrative storage will be in accordance with instructions provided in TM 740-90-1, Administrative Storage of Equipment.

1-5 CALIBRATION. No calibration of the equipment in this group is required.

1-6 REPORTING EQUIPMENT IMPROVEMENT RECOMMENDATIONS (EIR's). If your monitoring set needs improvement, let us know. Send us an EIR. You, the user, are the only one who can tell us what you don't like about your equipment. Let us know why you don't like the design. Tell us why a procedure is hard to perform. Put it on an SF 368 (Quality Deficiency Report). Mail it to us at US Army Electronics Materiel Readiness Activity, ATTN: SELEM-ME-F, Vint Hill Farms Station, Warrenton, Virginia 22186. We'll send you a reply.

Section II. DESCRIPTION AND DATA

1-7 PURPOSE AND USE. The monitoring set is designed to monitor and/or record voice frequency (vf) landline circuits and to display the number, including area code, originating from a dial or touch-tone telephone. The set will simultaneously monitor up to 15 central office telephone lines in any of the following combinations:

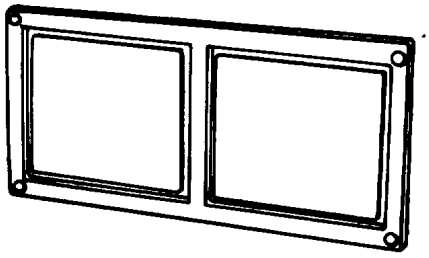
a. Military ringdown.
b. Military common battery signaling and common battery.
c. Commercial manual central office.
d. Commercial automatic central office.

1-8 DESCRIPTION.

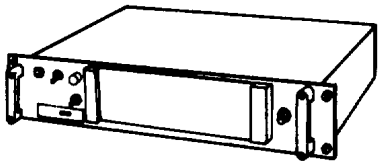
a. Audio Frequency Monitor TA-836/GTA-19. The monitor is shipped in a Case CY-3926/GTA-19. The metal transit case also contains Cable Storage Panel MP-7 with interconnection and power cables. The monitor is removed from the case and secured in a 19-inch rack by four captive screws located near the corners of the front panel. Operator controls, dialed number indicator (DNI) lamps, and recorder and earphone outputs are located on the front panel. On the rear panel are input line mode switches, an ac input selector switch, an ac-dc power connector, an input line connector, a digital display output connector, and fuses. Also located on the rear panel are spare fuses and spare lamps.

b. Digital Display Indicator ID-1682/GTA-19. The indicator is secured in the 19-inch rack by four captive screws located near the corners of the front panel. Operational controls, fuses, a reset pushbutton, and the digital display lamp panel are located on the front panel. On the rear panel are two line input connectors, an ac-dc line power connector, an ac voltage control switch, a monitor input connector, a monitor output connector, and a bank of 15 line (toggle) switches.

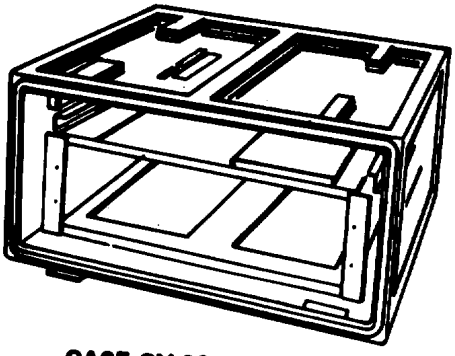
c. Audio Frequency Monitor Case CY-3926/GTA-19. The case is a rectangular metal transit container for the monitor and cable storage panel. The case has two end covers. Each cover is secured by four clasp-type fasteners and fitted with inset rubber gaskets to provide an airtight seal when in place. A two-way automatic air-pressure relief valve is installed in the top of the case near the forward end. The valve prohibits over-pressurization (internal or external) from rupturing the end-cover gaskets during transit through areas of high or low atmospheric pressure. The case is fitted with a carriage assembly and mounting brackets to accommodate the monitor and cable storage panel.



COVER



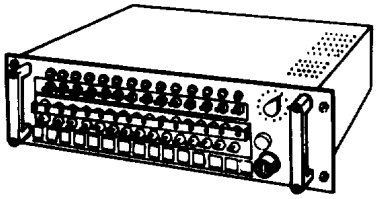
DIGITAL DISPLAY INDICATOR ID-1682/GTA-19



CASE CY-3926/GTA-19

MONITOR OUTPUT CABLE W4P3

MONITOR INPUT CABLE W3P2

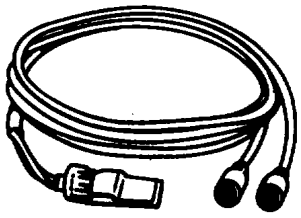


AUDIO FREQUENCY MONITOR TA-836/GTA-19

POWER CABLE W1P1 (AC)

POWER CABLE W2P1 (DC)

CABLE STORAGE PANEL MP-7



BRANCHED TELEPHONE CABLE ASSEMBLY CX-12978/GTA-19

POWER CABLE 1 W2 (AC)

POWER CABLE 1 W3 (DC)

OUTPUT CABLES 1 W4 THRU 1 W18

SPARE PARTS PACKET

Figure 1-1. Components of the Telephone Monitoring Set