DEPARTMENT OF THE ARMY TECHNICAL MANUAL

OPERATOR'S AND ORGANIZATIONAL

MAINTENANCE MANUAL

INCLUDING REPAIR PARTS AND SPECIAL TOOLS LISTS

TEST SET, RESOLUTION AN/AAM-30;

CABLE ASSEMBLY SET, ELECTRICAL MX-8408/AAS-24;

MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-1172/AAS-24;

FIXTURE, ALIGNMENT MX-8409/AAS-24

This copy is a reprint which includes current pages from Changes 1 through 3.

HEADQUARTERS, DEPARTMENT OF THE ARMY

DECEMBER 1970

WARNING

DEATH or SERIOUS INJURY may result from hazards in this equipment. READ and OBSERVE the following warnings.

WARNING

DEATH or SERIOUS INJURY may result from contact with 115-VAC, 400-Hz, 3-PHASE power existing within this test set.

WARNING

The fumes of trichloroethane are toxic. Provide thorough ventilation whenever used. DO NOT use near an open flame. Trich!oroethane is not flammable, but exposure of the fumes to an open flame converts the fumes to highly toxic, dangerous gases.

WARNING

Be extremely careful with explosives and incendiary devices. Use these items only when the need is urgent.

WARNING

Two men are required to lift the simulator and the alignment fixture.

TECHNICAL MANUAL

No. TM 11-6625-1732-12

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, *22 December 1970*

Operator's and Organizational Maintenance Manual Including Repair Parts and Special Tools Lists

TEST SET, RESOLUTION AN/AAM-30 (NSN 6625-00-433-2405); CABLE ASSEMBLY SET, ELECTRICAL MX-8408/AAS-24 (NSN 6625-00-489-0468); MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-1172/AAS-24 (NSN 5850-00-434-5539); FIXTURE ALIGNMENT MX-8409/AAS-24 (NSN 6625-00-489-2673)

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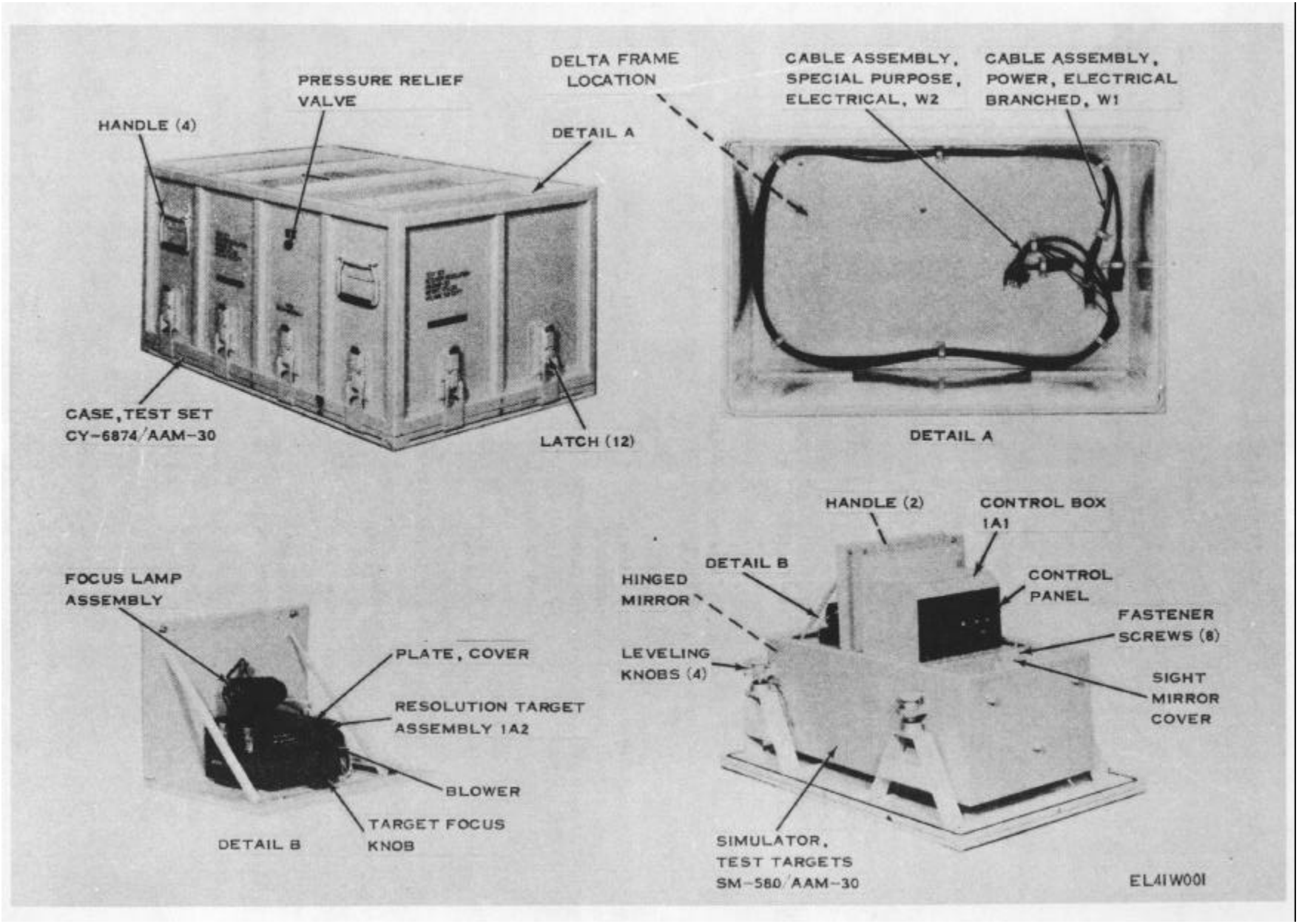

Figure 1-1 (1). Test Set, Resolution AN/AAM-30, (unit 1) components (part 1 of 2).

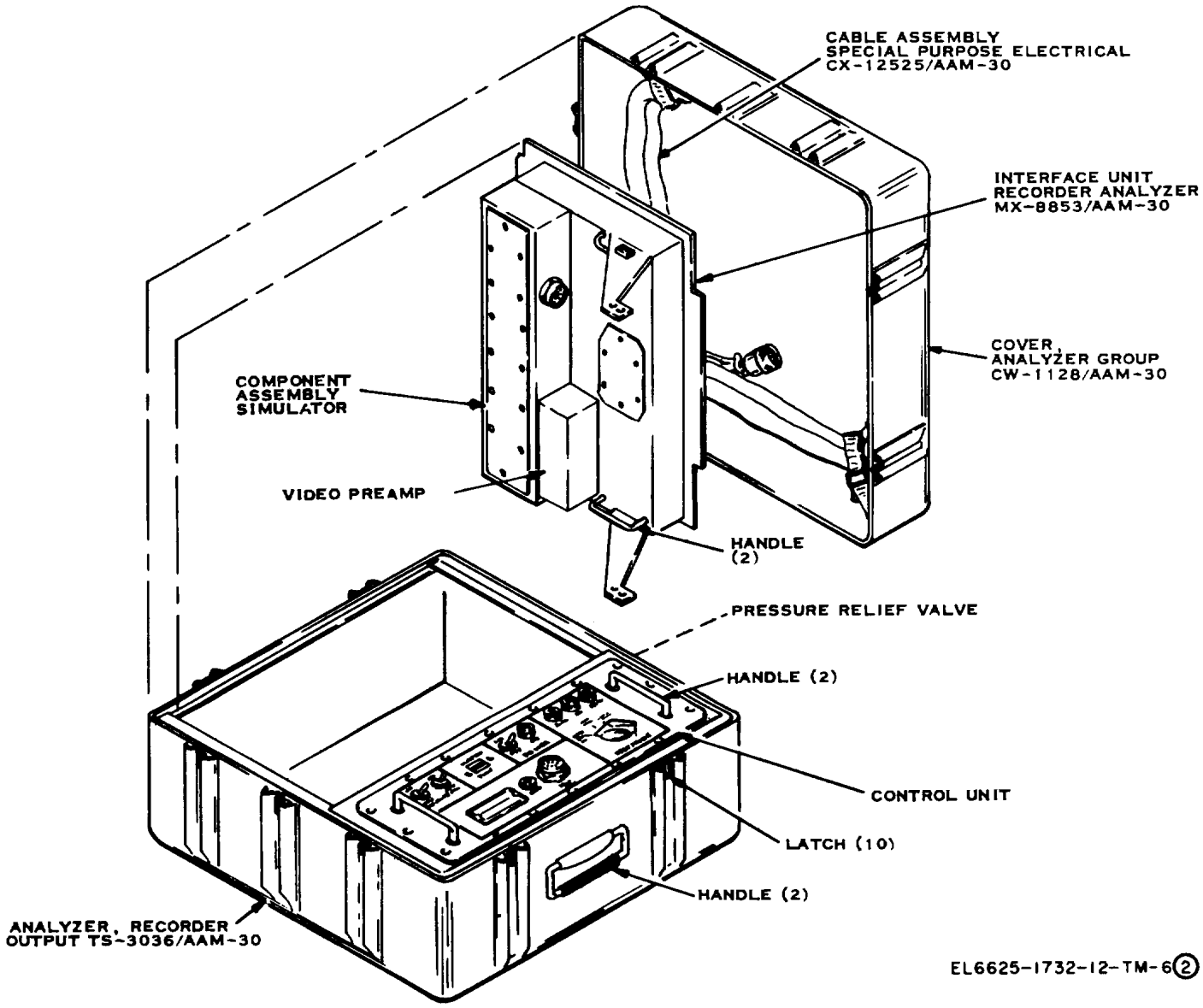

Figure 1-1 (2). Test Set, Resolution, AN/AAM-30, (unit 2) components (part a of 2).

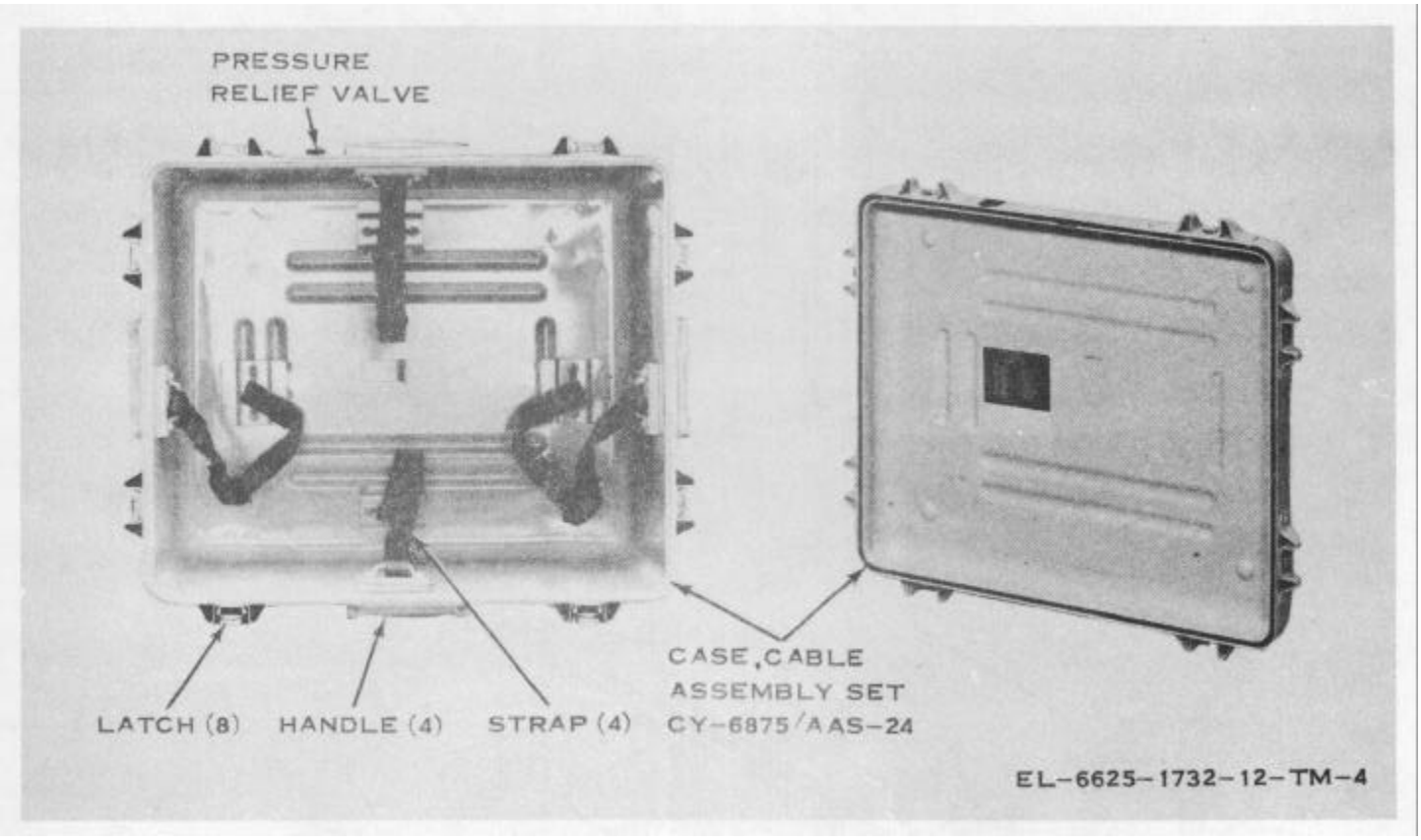

Figure 1-2. Cable Assembly Set, Electrical MX-8408/AAS-24, carrying case.

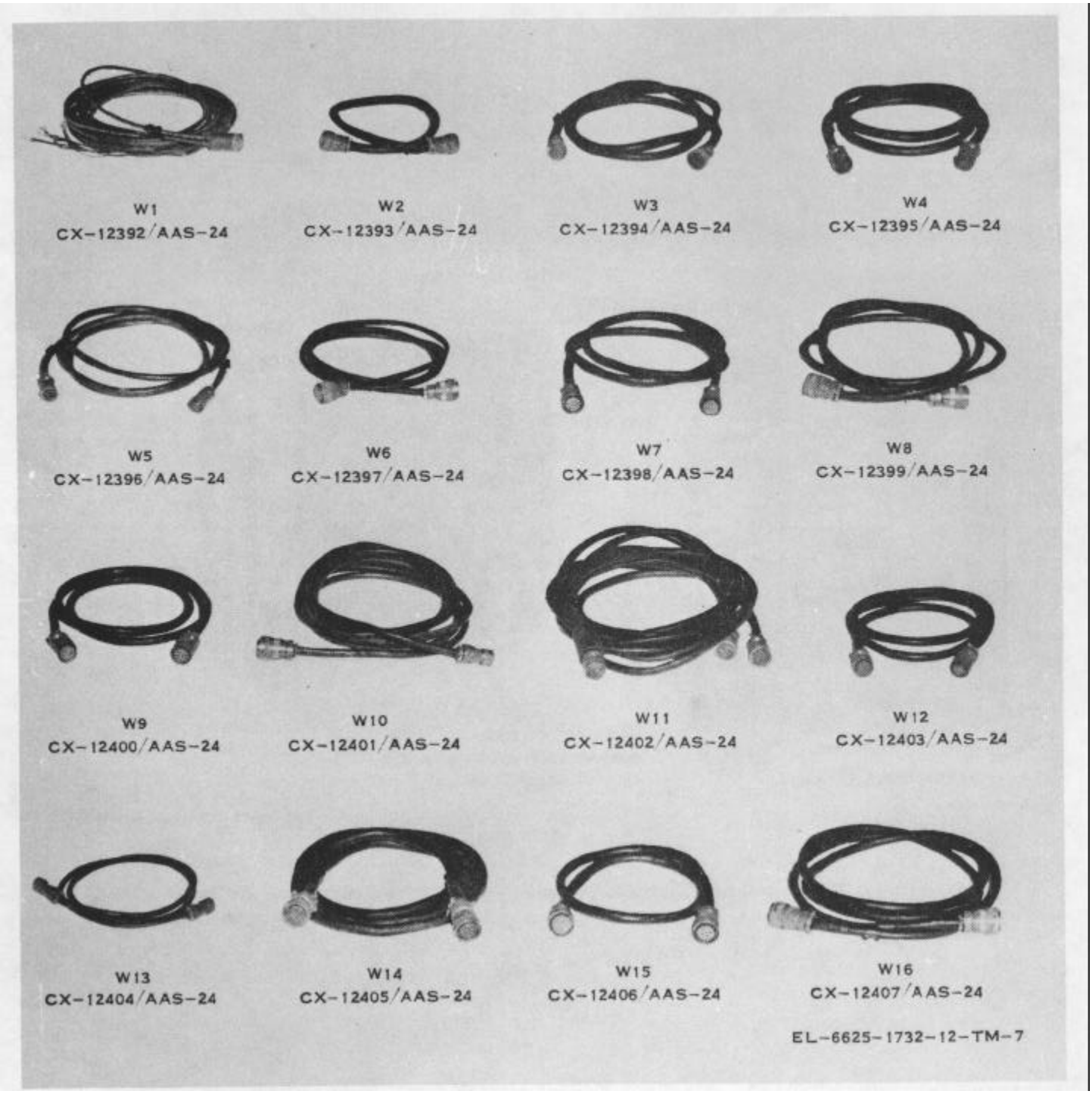

Figure 1-3. Cable Assembly Set, Electrical MX-8408/AAS-24, cables.

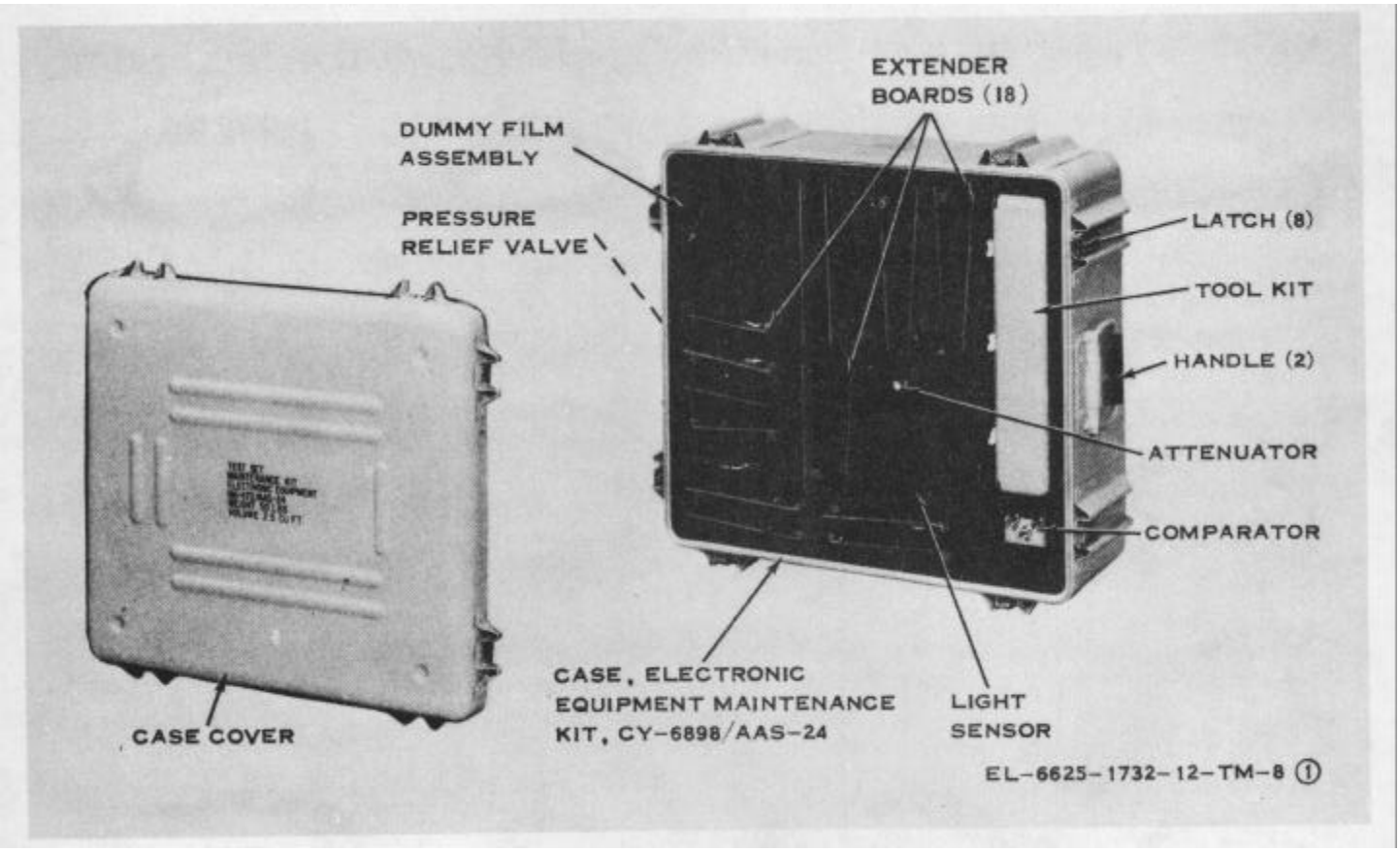

Figure 1-4 (1). Maintenance Kit, Electronic Equipment MK-1172/AAS-24, components (part 1 of 5).

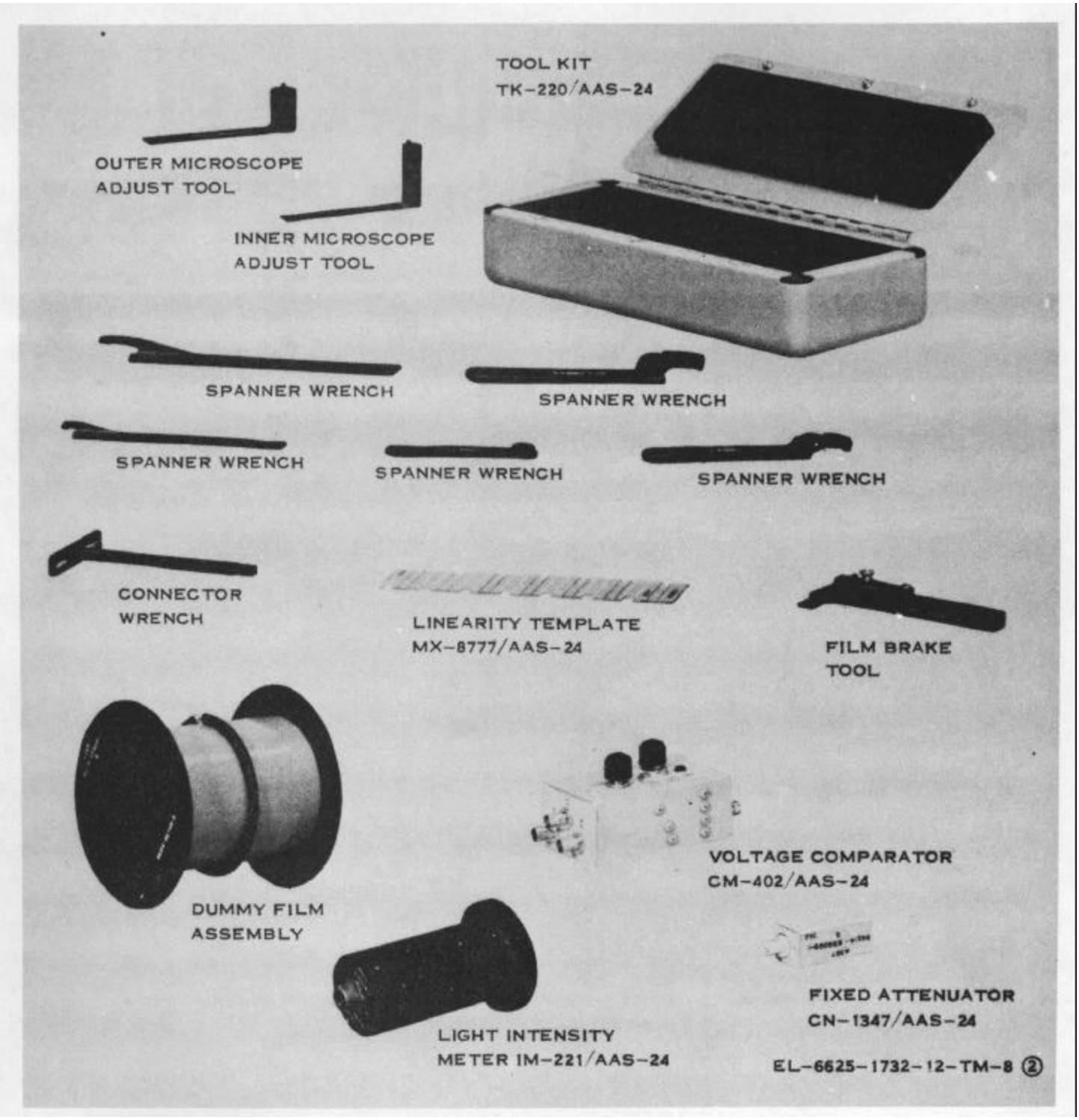

Figure 1-4 (2). Maintenance Kit, Electronic Equipment MK-1172/AAS-24, components (part 2 of 3).

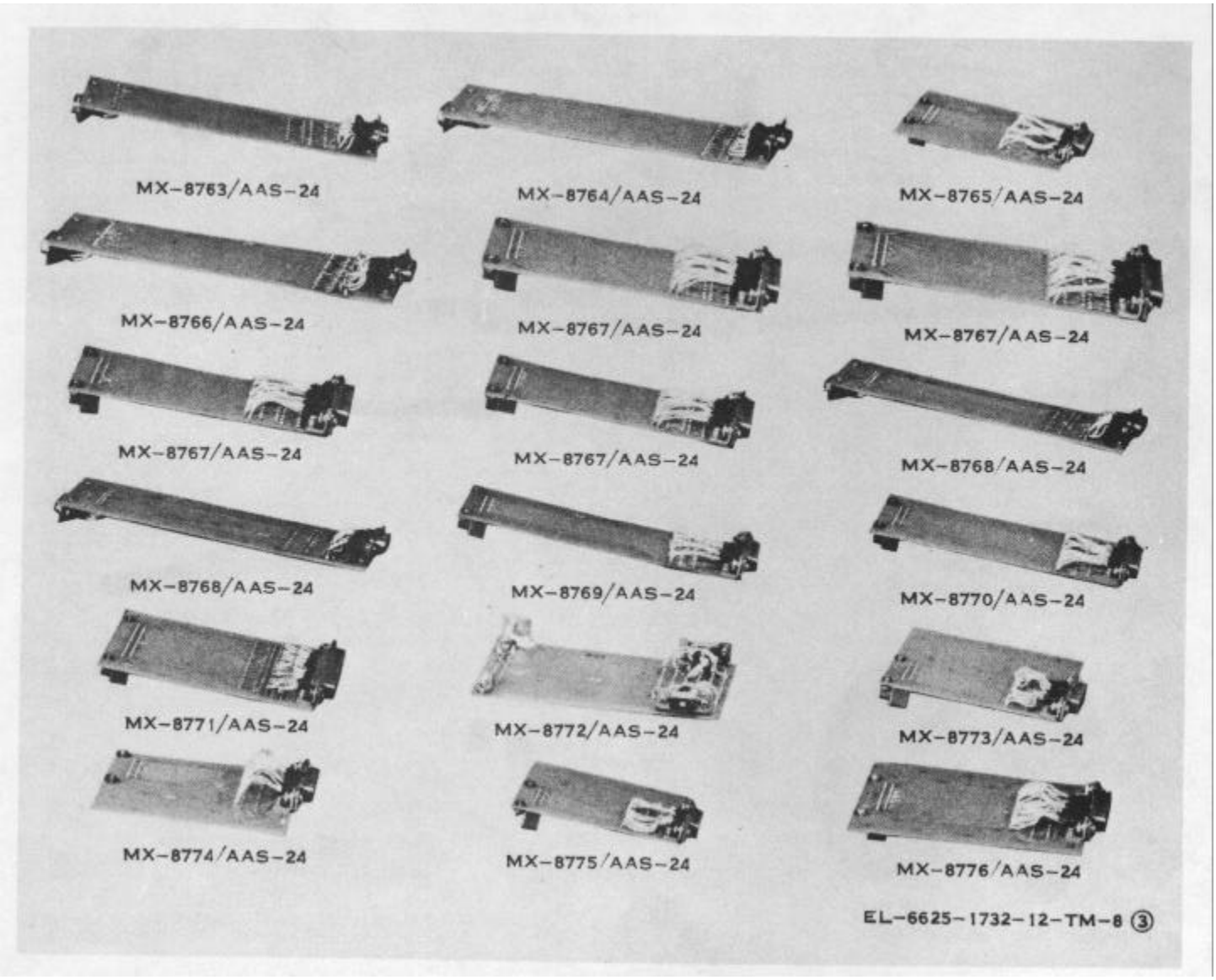

Figure 1-4 (3). Maintenance Kit, Electronic Equipment MK-1172/AAS-2, components (part 3 of 3).

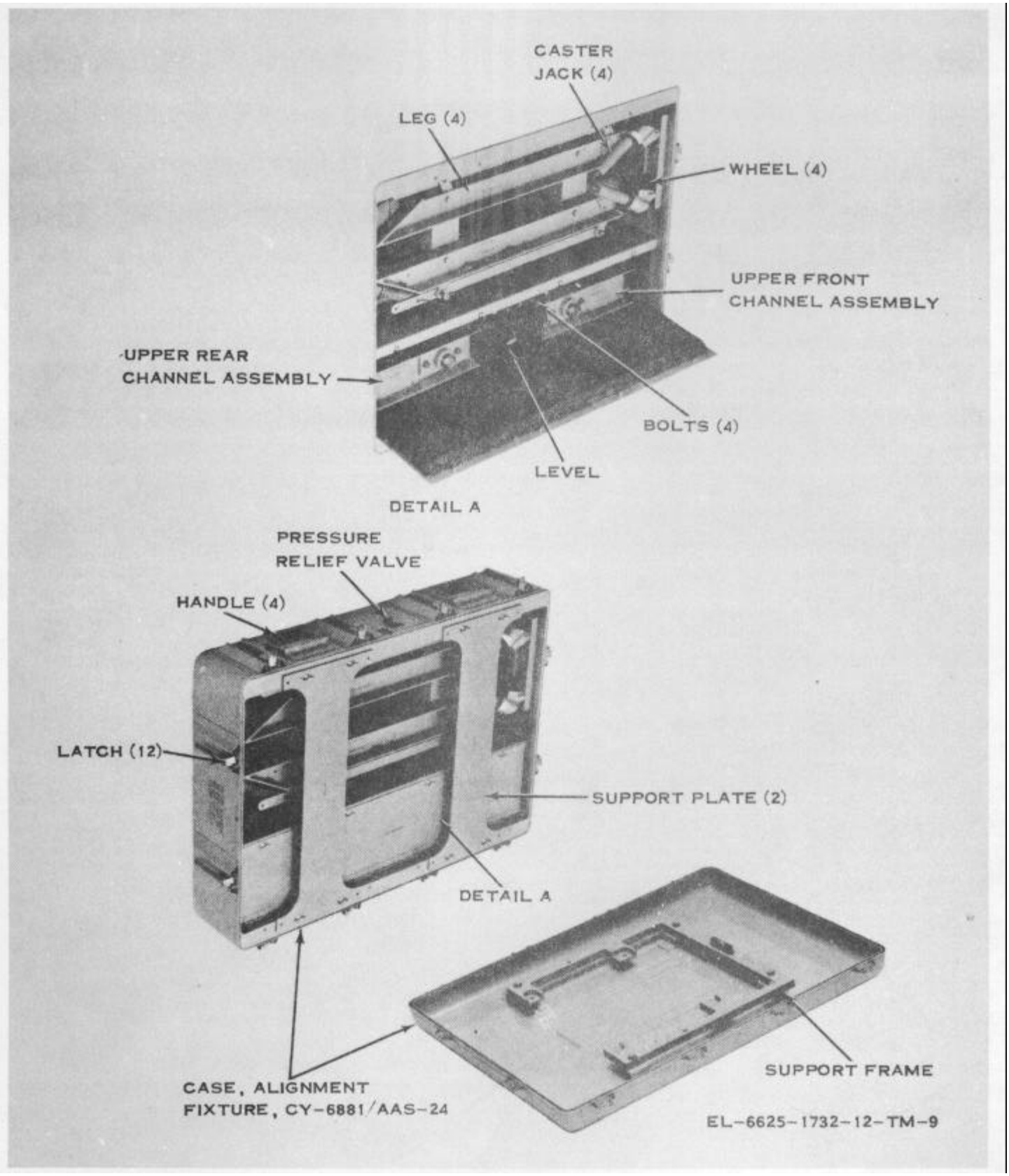

Figure 1-5. Fixture, Alignment .MX-8409/AAS-24, components.

CHAPTER 1
INTRODUCTION

Section I. GENERAL

1-1. Scope of Manual

a. This manual describes the following equipment:

(1) Test Set, Resolution AN/AAM-30 (resolution test set).

(2) Cable Assembly Set, Electrical MX-8408/ AAS-24 (cable assembly set).

(3) Maintenance Kit, Electronic Equipment MK-1172/AAS-24 (maintenance kit).

(4) Fixture, Alignment MX-8409/AAS-24 (alignment fixture).

b. The manual covers installation, operation, operator and organizational maintenance as required. Instructions are provided for operation under usual and unusual conditions, preventive and periodic maintenance services, and replacement of parts available to the organizational repairmen.

c. Instructions for use of these items of equipment to test components of Detecting Set, Infrared AN/AAS-24 are contained in TM 11-5850-241-12 and TM 11-5850-241-34/1.

d. Appendix A contains references; appendix B contains the basic issue items and items troop installed or authorized list; appendix C contains the maintenance allocation charts, and appendix D contains the organizational repair parts and special tools lists.

1-2. Indexes of Publications

a. *DA Pam 310-4*. Refer to the latest issue of DA Pam 310-4 to determine whether there are new editions, changes, or additional publications pertaining to the equipment.

b. DA Pam 310-7. Refer to DA Pam 310-7 to determine whether there are modification work orders (MWO's) pertaining to the equipment.

1-3. Forms and Records

a. Reports of Maintenance and Unsatisfactory Equipment. Maintenance forms, records, and reports which are to be used by maintenance personnel at all maintenance levels are listed in and pre scribed by TM 38-750.

b. Report of Packaging and Handling Deficiencies. Fill out and forward DD Form 6 (Packaging Improvement Report) as prescribed in AR 70058/NAVSUPINST 4030.29/AFR 71-13/MCO P4030.29A, and DLAR 4145.8.

c. Discrepancy in Shipment Report (DISREP) (SF 361). Fill out and forward Discrepancy in Shipment Report (DISREP) (SF 361) as prescribed in AR 55-38/NAVSUPINST 4610.33B/AFR 75-18/ MCO P4610.19C and DLAR 4500.15.

1-3.1. Reporting of Errors

Report of errors, omissions, and recommendations for improving this publication by the individual user is encouraged. Reports should be submitted on DA Form 2028 (Recommended Changes to Publications and Blank Forms) and forwarded direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703.

1-3.2. Reporting Equipment Improvement Recommendations

EIR's will be prepared using DA Form 2407 (Maintenance Request). Instructions for preparing EIR's are provided in TM 38-750, The Army Maintenance Management System. EIR's should be mailed direct to Commander, US Army Electronics Command, ATTN: DRSEL-MA-Q, Fort Monmouth, New Jersey 07703. A reply will be furnished direct to you.

1-3.3. Administrative Storage

Administrative storage of equipment issued to and used by Army activities shall be in accordance with TM 740-90-1.

1-3.4. Destruction of Army Electronics Materiel

Destruction of Army electronics materiel to prevent enemy use shall be in accordance with TM 750-244-2.

Section II. DESCRIPTION AND DATA

1-4. Purpose and Use

a. Test Set, Resolution AN/AAM-30. Test Set, Resolution AN/AAM-30 (resolution test set) is used to perform the following tests on Detecting Set, Infrared AN/AAS-24.

(1) Spatial resolution.

(2) Thermal resolution (noise equivalent temperature).

(3) Terrain Display IP-970/AAS-24 and Indicator, Calibration Display IP-969/AAS-24 resolution.

b. Fixture, Alignment MX-8409/AAS-24. Fixture, Alignment MX-8409/AAS-24 (alignment fixture) provides the capability to mount the AN/AAS-24 receiver group (out of an aircraft) to perform the tests listed in a above. While the receiver group is mounted on the alignment fixture, the gyroscope calibration and optical alignment may be performed. Leveling adjustment nuts are on each caster assembly for alignment and alignment fixture leveling.

c. Maintenance Kit, Electronic Equipment MK1172/AAS-24. Maintenance Kit, Electronic Equipment MK-1172/AAS-24 (maintenance kit) provides special tools, adapter boards and mechanical test items needed to fulfill test requirements for the AN/AAS-24 and the special test equipment.

d. Cable Assembly Set, Electrical MX-8408/AAS24. Cable Assembly Set, Electrical MX-8408/AAS24 (cable assembly set) provides the capability to interconnect the major subassemblies of the AN/ AAS-24 for bench test.

1-5. Resolution Test Set Technical Characteristics

a. Simulator Group, Test Targets OH-25/AAM-30.

(1) Input power.

(a) 115.0 ±11.5 volts alternating current (vac), 400 ±20 Hertz (Hz), 3-phase, 4-wire; 0.2 ampere (amp) maximum (max.) each phase.

(b) 27 ±2 volts direct current (vdc); 1.5 amp max.

(2) Operating temperature range. .+55 to -40° C.

b. Analyzer Group, Recorder Output OQ-96/AAM-30 input power.

(1) 113.0 ±5.0 vac, 400 ±Hz, 3-phase, 4-wire; 0.25 amp max. each phase.

(2) 26 20 .vdc; 0.3 amp max.

1-6. Items Comprising an Operable Equipment

a. The major items of the resolution test set and their dimensions are listed in table 1-1.

Table 1-1. Items Comprising an Operable Resolution Test Set

FSN	Item	Quantity	Height (in.)	Depth (in.)	Width (in.)	Weight (lbs)
6625-433-2405	Test Set, Resolution AN/AAM-30, consisting of:	1				
6625459-3399	Analyzer Group, Recorder Output OQ96/AAM-30 (unit 2)	1	18.94	24.50	23.75	65.0
6625-459-3398	Simulator Group, Test Targets OH-25/ AAM-30 (unit 1).	1	13.70	34.25	21.46	150
6625-470-4316	Cable Assembly, Power Electrical, Branched CX-12390/AAM-30 (1W1).	1	162 (lg)	....	....	2
6625-480-5679	Cable Assembly, Special Purpose, Electrical CX-12391/AAM-30 (1W2).	1	120 (lg)	....	....	0.5
6625-434-5728	Cable Assembly, Special Purpose, Electrical CX-12525/AAM-30 (2W1).	1	78 (lg)	....	....	0.5

NOTE

Transit Case components that accompany Test Set, Resolution AN/AAM-30 are listed in appendix B.

b The major components of the cable assembly set and their dimensions are listed in table 1-2.

Table 1-2. Items Comprising an Operable Cable Assembly Set

FSN	Item	Quantity	Height (in.)	Depth (in.)	Width (in.)	Weight (lbs)
6625-489-0468	Cable Assembly Set, Electrical MX-8408/ AAS-24, consisting of:	1	19.6	19.6	22.6	77.0
6625-489-2675	Cable Assembly, Power Electrical, Branched CX-12392/AAS-24 (1W1).	1	180 (1g)	....	....	2.1
6625-493-9355	Cable Assembly, Special Purpose, Electrical CX-12393/AAS-24 (1W2).	1	36 (lg)	....	....	1.5

FSN	Item	Quantity	Height (in.)	Depth (in.)	Width (in.)	Weight (lbs)
6625-489-0436	Cable Assembly, Special Purpose, Electrical CX-12394/AAS-24 (1W3).	1	96 (lg)	....	....	3.3
6625-489-6103	Cable Assembly, Special Purpose, Electrical CX-12395/AAS-24 (1W4).	1	96 (Lg)	....	....	3.8
6625-403-5841	Cable Assembly, Special Purpose, Electrical CX-12396/AAS-24 (1W5).	1	120 (Lg)	....	....	1.9
6625-489-0450	Cable Assembly, Special Purpose, Electrical CX-12397/AAS-24 (1W6).	1	96 (Lg)	....	....	1.6
6625-489-0453	Cable Assembly, Special Purpose, Electrical CX-12398/AAS-24 (1W7).	1	96 (Lg)	....	....	3.0
6625-408-5087	Cable Assembly, Special Purpose, Electrical CX-12399/AAS-24 (1W8).	1	120 (Lg)	....	....	3.0
6625-489-0454	Cable Assembly, Special Purpose, Electrical CX-12400/AAS-24 (1W9)	1	96 (Lg)	....	....	2.9
6625-409-8203	Cable Assembly, Special Purpose, Electrical CX-12401/AAS-24 (1W10)	1	180 (Lg)	....	....	2.8
6625-407-7131	Cable Assembly, Special Purpose, Electrical CX-12402/AAS-24 (1W11).	1	180 (Lg)	....	....	6.6
6625-489-0455	Cable Assembly, Special Purpose, Electrical CX-12403/AAS-24 (1W12).	1	96 (Lg)	....	....	3.4
6625-252-5808	Cable Assembly, Special Purpose, Electrical CX-12404/AAS-24 (1W13).	1	72 (Lg)	....	....	1.1
6625-489-2664	Cable Assembly, Special Purpose, Electrical CX-12405/AAS-24 (1W14).	1	120 (Lg)	....	....	4.0
6625-403-1062	Cable Assembly, Special Purpose, Electri cal CX-12406/AAS-24 (1W15).	1	48 (Lg)	....	....	1.6
6625-489-6139	Cable Assembly, Special Purpose, Electrical CX-12407/ AAS -24 (1W16)	1	120 (Lg)	....	....	2.9

Note. **Repair parts and special tools that accompany Cable Assembly St Electrical MX-84O8/AAS-24 are listed In appendix B. Basic Issue Items List.**

c. The major components of the alignment fixture and their dimensions are listed in table 1-3.

d. The major components of the maintenance kit and their dimensions are listed in table 1-4.

Table 1-3. Items Comprising an Operable Alignment Fixture

FSN	Item	Quantity	Height (in.)	Depth (in.)	Width (in.)	Weight (lbs)
6625-489-2693	Fixture, Alignment MX-8409/AAS-24 consisting of:	1	36.8	48.7	26.2	114.0
5850-409-9051	Channel Assembly, Upper Front: 692315-1 (96214) (1MP2)	1				
5850-409-9052	Channel Assembly, Upper Rear: 69316-1 (96214) (1MP3)	1				
5850-237-4055	Leg, Left, Alignment Fixture: 6922961 (96214) (1MP15)	1				
5850-237-4056	Leg, Left, Alignment Fixture: 692296-2 (96214) (1MP6)	1				
5850-237-4057	Leg, Right, Alignment Fixture: 692232-1 (96214) (1MP7)	1				
5950-237-4058	Leg, Right, Alignment Fixture: 692232-2 (96214) (1MPS)	1				
5960-237-4061	Level, Alignment Fixture: 692308-1 (96214) (1MP9)					
5850-237-4059	Plate, Support, Channel: 694754-2 (96214) (1MP11, 1MP12)	2				
5850-237-4060	Support Frame, Alignment Fixture: 692312-1 (96214) (1MP14)	1				

NOTE

Transit case that accompanies Fixture, Alignment MX-8409/AAS-24 is listed in appendix B.

Table 1-4. Items Comprising an Operable Maintenance Kit

FSN	Item	Quantity	Height (in.)	Depth (in.)	Width (in.)	Weight (lbs)
5850-434-5539	Maintenance Kit, Electronic Equipment MK-1172/AAS-24, consisting of:	1	16.0	26.0	24.0	100
5180-482-1061	Tool Kit, Electronic Equipment TK-220/AAS-24 (1MP8)	1	14.5	3.1	6.3	3.6
5120-419-9596	Connector Wrench: 665707-1 (96214) (1MP8MP7)	1	6.0	0.1	3.0	0.5
5120-419-9597	Inner Microscope Tool: 665684-1 (96214) (1MP8MP5)	1	4.8 (Lg)	1.7	1.0	0.25
5120-419-9594	Outer Microscope Tool: 665683-1 (96214) (1MP8MP6)	1	5.1 (1g)	2.3	1.0	0.25
5120-444-2210	Spanner Wrench, Adjustable: 418882-2 (96214) (1MP8MP9)	1	8.1 (Lg)	0.1	2.0	0.5
5120-419-9598	Spanner Wrench: 633961-1 (96214) (1MP8MP10)	1	10.9 (Lg)	0.1	2.0	0.5
5120-232-6391	Spanner Wrench: 665547-1 (96214) (1MP8MP12)	1	8.0 (Lg)	0.1	2.0	0.5
5120-41-9595	Spanner Wrench: 633965-1 (96214) (1MP8MP11)	1	8.1 (Lg)	0.25	2.0	0.5
5120-444-2210	Spanner Wrench, Adjustable: 418882-1 (96214) (1MP8MP8)	1	6.4 (Lg)	0.25	2.0	0.5
5120-237-4090	Puller, Card	1	....	....	....	....
5850-434-5555	Extender, Circuit Card MX-8763/AAS-24 (extender board) (1A9)	1	8.6 (Lg)	....	2.9	0.3
5850-434-5558	Extender, Circuit Card MX-8764/AAS-24 (extender board) (1A8)	1	8.6 (Lg)	....	2.9	0.3
5850-434-5556	Extender, Circuit Card MX-8765/AAS-24 (extender board) (1A13)	1	5.3 (Lg)	....	5.5	0.3
5850-459-3318	Extender, Circuit Card MX-8766/AAS-24 (extender board) (1A4)	1	8.6 (Lg)	....	2.9	0.3
5850-434-5561	Extender, Circuit Card MX-8767/AAS-24 (extender board) (1A16)	4	7.0	....	4.0	0.3
5850-434-5563	Extender, Circuit Card MX-8768/AAS-24	2	8.6 (Lg)	....	2.9	0.3
5850 459-3319	Extender, Circuit Card MX-8769/AAS-24 (extender board) (1A14)	1	8.5 (Lg)	....	3.5	0.3
5850-459-3317	Extender, Circuit Card MX-8770/AAS-24 (extender board) (1A15)	1	8.0 (Lg)	....	4.8	0.3
5850-459-3314	Extender, Circuit Card MX-8771/AAS-24 (extender board) (1A6)	1	6.5 fig)	....	6.0	0.3
5850-459-3316	Extender, Circuit Card MX-8772/AAS-24 (extender board) (1A7)	1	6.0 (Lg)	....	4.6	0.3
5850-434-5547	Extender, Circuit Card MX-8773/AAS-24 (extender board) (1A10)	1	6.5 (Lg)	....	5.5	0.3
5850-434-5544	Extender, Circuit Card MX-8774/AAS-24 (extender board) (1A11)	1	5.3 (Lg)	....	5.5	0.3
5850-434-5557	Extender, Circuit Card MS-8775/AAS-24 (extender board) (1A12)	1	5.8 (Lg)	....	5.5	0.3
5850-434-5543	Extender, Circuit Card MX-8776/AAS-24 (extender board) (1A17)	1	6.6 (Lg)	....	6.0	0.3
6760-445-4650	Dummy Film Assembly (dummy film)	1	5.0 (Lg)	....	6.0 (dia)	0.5
6625-470-4318	Template, Linearity MX-8777/AAS-24 (template).	1	7.8	0.1	1.8	0.1
5850-434-5542	Comparator, Voltage CM-402/AAS24 (voltage analyzer)	1	5.2	2.9	2.9	0.4
	Film Brake Tool (brake tool)	1	6.0 (lg)	3.0	0.5	
6625-470-4317	Meter, Light intensity IM-221/AAS24 (light sensor)	1	6.0 (lg)	3.5 (dia)	0.5	
5905-481-3089	Attenuator, Fixed CN-1347/AAS-24	1	3.0	1.0	1.1	0.12

NOTE

Transit case components that accompany Maintenance Kit, Electronic Equipment MK-1172/AAS24 is listed in appendix B.

1-6.1. Expendable Consumable Supplies and Materials

Expendable consumable supplies and materials are listed in table 1-4.1.

Table 1-4.1. Expendable Consumable Supplies and Materials

The supplies and materials listed in this table are required for operation of this equipment and are authorized to be requisitioned by SB 700-50. The FSN for the applicable unit of issue required can be found in appropriate supply catalogs. The FSCM is used as an element in item identification to designate manufacturer or distributor or Government agency, etc., and is identified in SB 70842.

Item	Description	Ref No. and FSCM	FSC
1	Cleaning Compound	---- •••	6810
2	Fine Sandpaper	----- •••	5350
3	Insulation Tape, Electrical (Pressure Sensitive Adhesive Plastic Tape)	----- •••	5970
4	Isopropyl Alcohol	----- •••	6810
5	Acetone	----- •••	6810
6	Cotton Pad	----- •••	6510
7	Lubricating Oil, General Purpose, Preservative, (PL-Special)	----- •••	9150

1-7. Common Names

Common names are listed in table 1-5.

1-8. Reference Designators

a. Reference designators to manufacturers' part numbers for the resolution test set are listed in table 1-6.

b. Reference designators to manufacturers' part numbers for the alignment fixture are listed in table 1-7.

Table 1-5. Common Names

Nomenclature	*Common name*
Detecting Set, Infrared AN/AAS-24	Infrared detecting set
Test set, Resolution AN/AAM-30.	Resolution test set
Simulator Group, Test Targets OH-25/AAM-30.	Simulator
Analyzer Group, Recorder Output OQ96/AAM-30.	Target analyzer
Analyzer, Recorder Output TS 3036/AAM-30.	Recorder analyzer
Interface Unit, Recorder-Analyzer MX-88531AAM-30.	Interface unit
Cable Assembly Set, Electrical MX-8408/AAS-24.	Cable assembly set
Maintenance Kit, Electronic Equipment MK-11721AAS24.	Maintenance kit
Fixture, Alignment MX-8409/AAS-24.	Alignment fixture
Meter, Light Intensity IM-221/AAS-24	Light sensor

Table 1-6. Reference Designators for Resolution Test Set

Reference designator	Nomenclature	Manufacturer's part number
	Test Set, Resolution AN/AAM-30.	692483-1
1	Simulator Group Test Targets OH-25/AMM-30.	694608-1
1A1	Control Box.	692286-1
1A1A1	Power Control.	692340-1
1A1A2	Heater Control.	692343-1
1A1A3	Cooler Control.	692346-1
1A1A4	Temperature-Voltage Comparator.	692349-1
1A1AS	Control Panel.	692259-1
1A1ASA1	Filter Assembly.	692227-1
1A1A6	Grounded Diode Assembly.	633228-1
1A1A7	Insulated Diode Assembly.	633229-1
1A2	Resolution Target Assembly	694312-1
1A2A1	Heated Plate Assembly.	696173-1
1A2A2	Cooled Plate Assembly.	696200-1
1A2A3	Shaft Support Block.	633087-1
1A2A4	Focusing Lamp Assembly.	694751-1
1W1	Cable Assembly, Power, Electrical, Branched CX-12390/AAM-30.	692147-1
1W2	Cable Assembly, Special Purpose, Electrical CX-12391/AAM-30.	692148-1
2	Analyzer Group, Recorder Output OQ-96-AAM-30.	694605-1
2MP1	Analyzer, Recorder Output TS-3036/AAM-30.	696301-1
2MP2	Cover, Analyzer Group CW-1128/AAM-30.	723329-1
2MP3	Interface Unit, Recorder Analyzer MX-8853/AAM-30.	694601-1
2A1	Control Unit.	694641-1
2A1A1	Heatsink Assembly.	692231-1
2A1A2	Heatsink Assembly.	692231-1
2A1A3	Heatsink Assembly.	692231-1
2A1A4	+ 13-Vdc Regulator.	692364-1
2A1A5	+6-Vdc Regulator.	692361-1
2A1A6	Video Interface.	692448-1
2A1A7	Video Integrators.	692445-1
2A1A8	Time Mark Generator.	692439-1
2A1A9	Alignment Detector.	692442-1
2A1A10	Revolution and Go Counters.	692436-1
2A2	Component Assembly Simulator	723360-1
2A2A1	Video Preamplifier.	692433-1
2W1	Cable Assembly, Special Purpose Electrical CX-12.F25/AAM-30.	694649-1

c. Reference designators to manufacturers' part numbers for the maintenance kit are listed in table 1-8.

d. Reference designators to manufacturers' part numbers for the cable assembly set are listed in table 1-9.

Table 1-7. Reference Designators for Alignment Fixture

Reference designator	Nomenclature	Manufacturer's part number
1	Fixture, Alignment MX-8409/A.AS-24	694739-1
1MP1	Case, Alignment Fixture CY-6881/AAS-24.	696059-1

Table 1-8. Reference Designators for Maintenance Kit

Reference designator	Nomenclature	Manufacturer's part number
1	Maintenance Kit, Electronic Equipment MK-1172/AAS-24.	692493-1
1A1	Meter, Light Intensity IM-221/AAS-24.	694762-1
1A2	Attenuator, Fixed CN-1347/AAS-24.	696088-1
1A3	Comparator, Voltage CM-402/AAS-24.	696089-1

1-9. Description of Test Set, Resolution AN/AAM-30
(fig. 1-1)

The resolution test set is contained in two carrying cases, each equipped with 4 carrying handles. Each carrying case is provided with pressure equalizing valves. Sealing gaskets are provided to protect against humidity. Both units are operated with the covers removed. On the simulator (unit 1) one foldup panel provides an infrared target and the other foldup panel provides test set controls. The resolution target foldup panel includes a cooled plate, a slotted, heated, target plate and an optical light source. The control box consists of the electronics which control the cooled plate and heated plate temperatures. Two units comprise the target analyzer (unit 2) portion of the resolution test set; the analyzer recorder output (2MP1) and the interface unit recorder (2MP3). The interface unit has a light detector and a preamplifier. The it interface unit attaches to the recorder in place of the film magazine. Light detected by the interface unit is converted to electrical energy and inputed to the recorder analyzer which has the necessary amplifiers and test set controls to check the Detecting Set, Infrared AN/AAS-24 performance.

Table 1-9. Reference designators for Cable Assembly Set

Reference designator	Nomenclature	Manufacturer's part number
1	Cable Assembly Set, Electrical MX-8408/AAS-24.	692620-1

1-10. Description of Cable Assembly Set, Electrical MX-8408/AAS-24
(fig. 1-2 and 1-3)

The cable assembly set consists of 16 cables housed in a sealed transit case. All 16 cables included in the assembly are held in place by 4 nylon straps. Four carrying handles are provided for transporting the transit case. A pressure relief valve is provided to equalize pressure.

1-11. Description of Maintenance Kit, Electronic Equipment MK-1172/AAS-24
(fig. 1-4)

The maintenance kit is contained in a portable carrying case provided with four carrying handles and a pressure equalizing valve. The maintenance kit consists of special tools, extender boards and mechanical test items. The special tools include microscope adjusting tools and spanner wrenches. Special test items include a light intensity meter, a film supply, a voltage comparator, and an attenuator.

1-12. Description of Fixture, Alignment MX-8409/AAS-24
(fig. 1-5)

The alignment fixture consists of four legs, a front and a rear channel assembly, four leveling caster jacks, a receiver support frame, a bubble level, and mounting bolts. The alignment fixture is stored in a portable case. The contents of the case are shown in figure 1-5. Four carrying handles and a pressure relief valve are also provided.

1-13. Additional Equipment Required

The additional equipment listed in table 1-10 is used with the resolution test set to test Detecting Set, Infrared AN/AAS-24.

Table 1-10. Additional Equipment Required

Equipment	Applicable publication
Oscilloscope AN/USM-281A	TM 11-6625-1703-15

CHAPTER 2
INSTALLATION

2-1. General

This chapter contains instructions for unpacking, checking upon receipt, power connections, and preoperational checks for the resolution test set, the cable assembly set, the alignment fixture and the maintenance kit.

2-2. Packaging Data

a. Resolution Test Set. The resolution test set is shipped in two plywood shipping containers (fig. 2-1) with all interconnecting and power cabling stored in the transit cases. Case 1 of the resolution test set, including the shipping container, measures 64 by 38 by 26 inches, weighs approximately 250 pounds, and occupies a volume of approximately 36 cubic feet. Case 2 of the resolution test set, including the shipping container, measures 33 by 32 by 22 inches, weighs approximately 75 pounds and occupies a volume of approximately 14 cubic feet.

b. Cable Assembly Set. The cable assembly set is shipped in a single plywood shipping container (fig. 2-1) with all 16 cable assemblies inside the transit case. The cable assembly set, including the shipping container, measures approximately 36 by 34 by 29 inches, weighs approximately 140 pounds, and occupies a volume of approximately 20.6 cubic feet.

c. Alignment Fixture. The alignment fixture is shipped in a single plywood shipping container (fig. 2-1) The alignment fixture including the shipping container measures approximately 47 by 37 by 19, weighs approximately 170 pounds and occupies a volume of approximately 18 cubic feet.

d. Maintenance Kit. The maintenance kit is shipped in a single plywood shipping container (fig. 2-1). The maintenance kit including the shipping container measures approximately 30 by 29 by 17 inches, weighs approximately 85 pounds and occupies a volume of approximately 8 cubic feet.

2-3. Unpacking Equipment

a. To remove the resolution test set simulator and target analyzer from the shipping containers (fig. 2-1), proceed as follows:

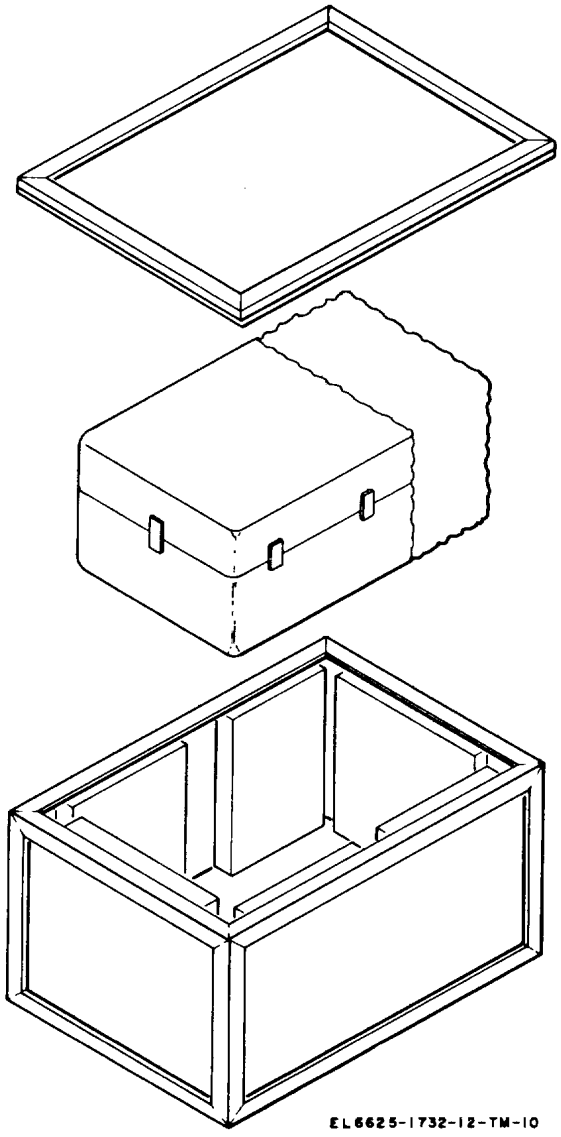

Figure 2-1. Typical plywood shopping container.

(1) Place the shipping containers on a suitable, clean work area, making certain the tops are facing up.

(2) Carefully remove the tops and one side with a nail puller and slide the test set from the containers.

(3) Place the test set (fig. 1-1) in the work area.

(4) Unscrew the pressure relief valves to equalize pressure.

(5) Release the latches and remove the covers.

WARNING

Two men are required to lift the resolution test set units.

(6) Place the resolution test set on a work bench.

(7) Remove power cables 1W1 and 1W2, and the target analyzer special cable 2W1.

(8) Replace the covers and sides on the shipping containers and retain for future use (ground storage or reshipment).

b. The alignment fixture is packed in one shipping container (fig. 2-1). To remove the alignment fixture, proceed as follows:

(1) Place the shipping container on a suitable, clean work area, making certain the top is up.

(2) Carefully remove the top with a nail puller and lift the alignment fixture case (fig. 1-5) from the container.

(3) Place the alignment fixture case in the work area.

(4) Unscrew the pressure relief valve to equalize pressure.

(5) Release 12 latches on the case and remove the cover.

(6) Release the four turnlock fasteners securing each support plate and remove each from the case.

(7) Remove the eight bolts holding the two right legs and the two left legs and remove the legs from the case.

(8) Release the four turnlock fasteners on the case cover and open the cover.

(9) Remove the upper front channel assembly and the upper rear channel assembly from the case.

(10) Remove the level and the four bolts from the case.

(11) Place all items on the test bench or in the work area.

(12) Replace the cover on the case.

(13) Replace the top on the shipping container and retain the container for future use (ground storage or reshipment).

c. To remove the maintenance kit and cable assembly set from their shipping containers (fig. 2-1), proceed as follows:

(1) Place the shipping containers on a suitable, clean work area, making certain the tops are up.

(2) Carefully remove the tops with a nail puller and lift the cable assembly set and the maintenance kit from the containers.

(3) Place the cable assembly set and the maintenance kit on the work bench.

(4) Unscrew the pressure relief valves on each transit case to equalize pressure.

(5) Unlatch the 12 latches on the maintenance kit case and the 8 latches on the cable assembly set case and remove the covers.

(6) Release the four straps securing the cables in the cable assembly set case and remove the 16 cables. Place the cables on the test bench.

(7) Remove the extender boards, the voltage comparator, the template, the tool box, the light sensor, the attenuator, and the dummy film assembly from the maintenance kit. Place these items on the test bench.

(8) Replace the covers on the transit cases.

(9) Replace the tops on the shipping containers and retain the containers for future use (ground storage or reshipment).

2-4. Checking Unpacked Equipment

a. Inspect the equipment for physical damage that may have occurred during shipment. If the equipment has been damaged, fill out and forward DD Form 6 (para 1-3b).

b. Check to see that the equipment is complete as listed on the packing slip. If a packing slip is not available, check the equipment against the basic issue items list (appendix B). Report al discrepancies in accordance with paragraph 1-3c.

The equipment should be placed in service even though a minor assembly or part that does not affect proper functioning is missing.

c. Check to see whether the equipment has been modified. If the equipment has been modified, the MWO number will appear on the front panel

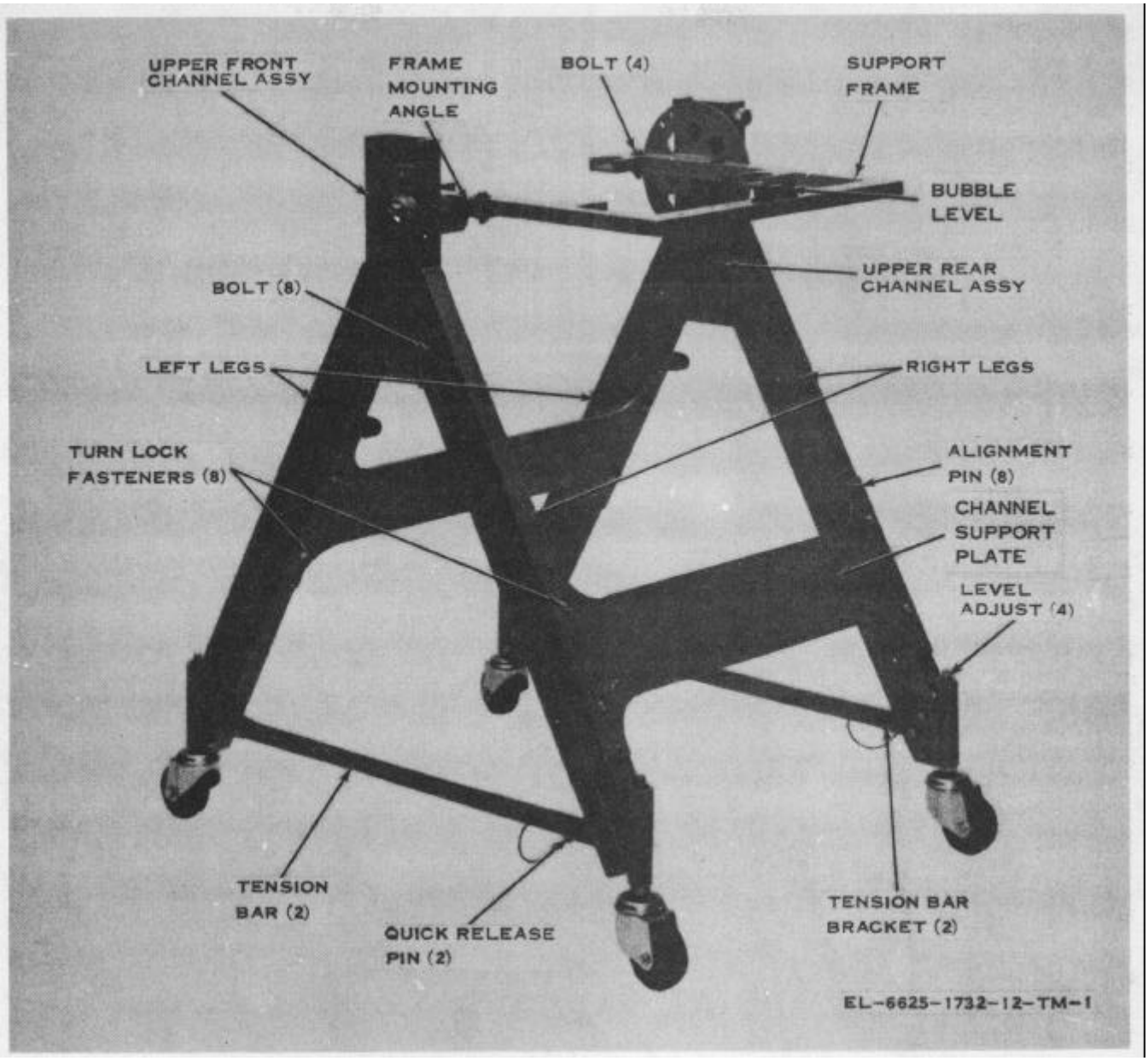

Figure 2-2. Alignment fixture assembly.

near the nomenclature plate. Check also to see whether all MWO's current at the time the equipment is placed in use have been applied (DA Pam 310-7).

d. Check the latest issue of DA Pam 310-4 and its latest changes to see whether you have the latest editions of all applicable maintenance literature.

2-5. Installation Instructions

a. Resolution Test Set (figs. 1-1, 3-1, and 3-2). Initial installation of the resolution test set simulator requires the connection of cable assembly 1W2 from the resolution test set simulator connector 1A1J1 to the receiver test connector 1A1J4 and the connection of cable assembly 2W1 from interface unit connector 2A2J1 to recorder analyzer connector 2A1J1.

(1) Place the 28 VDC and 115 V 3, circuit breakers to the OFF positions.

(2) Connect cable assembly 1W2 between simulator control box connector lAIJ1 and connector 1A1J4 on the receiver.

(3) Connect the target analyzer cable 2W1 between the interface unit 2MP3 and the target analyzer recorder.

b. Cable Assembly Set. Refer to TM 11-5850241-34/1 for the interconnection diagram for the cable assembly set.

c. Alignment Fixture. The installation procedure consists of assembling and leveling the portable framework which supports the receiver subassembly (fig. 1-5 and 2-2).

(1) Extract the quick release pins and swing the tension bars on the left legs to align with the tension bar brackets on the respective right legs. Insert the quick release pins through the holes in the tension bar brackets and tension bars.

(2) Using two of the bolts that secured the legs in the case, attach the right leg to the upper front channel assembly as shown in figure 2-2.

(3) Repeat step (2) with the left leg.

(4) Repeat step (2) with the upper rear channel assembly and the right leg.

(5) Repeat step (2) with the upper rear channel assembly and the left leg.

(6) Hold each assembly in the vertical position (on the wheels) and place the channel support plates on the alignment pins on the legs. Secure with the turnlock fasteners.

(7) Remove the four bolts holding the support frame to the top of the case and using these four bolts, secure the support frame to the frame mounting angles of the channel assemblies.

NOTE

The four bolts and level remaining in the case are for mounting the receiver on the support frame and for attaching to the receiver for leveling.

d. Maintenance Kit. No installation instructions are required for the maintenance kit.

2-6. Initial Checking of Equipment

Upon completion of installation, the resolution test set simulator and target analyzer will be given an initial checkout by performing the starting procedure (para 3-5) and the stopping procedure (para 3-6).

CHAPTER 3
OPERATION

Section I. OPERATOR'S CONTROLS, INDICATORS AND CONNECTORS

3-1. Resolution Test Set Control Panels', Controls, Indicators and Connectors

Resolution test set simulator control box 1A1 (fig. 3-1) and resolution test set target analyzer control unit 2A1 (fig. 3-2) controls, indicators and connectors are listed in table 3-1 and table 3-2, respectively.

Table 3-1. Resolution Test Set Simulator Control Box 1A1 Controls, Indicators, and Connectors

Control or indicator	*Function*
Simulator Control Panel 1A1A5 (fig. 3-1):	
POWER:	
FAIL (Press-to-test lamp assembly).	Indicates failure of 115 vac, 28 vdc, or power supply.
STBY (Press-to-test lamp assembly).	Indicates the power mode switch is in the STAND BY or RESET position. All ac power is available in the simulator.
OPER (Press-to-test lamp assembly).	Indicates that the power mode switch is in the OPERATE position and all circuits are energized.
Power mode switch (4-position rotary switch).	*Sw, Pos* — *Action* OFF — Disconnects 115-vac, 400Hz, 3-phase power and 28 vdc from the simulator and extinguishes all lamps. STAND BY — Activates the monitor circuitry, applies the power to the press-to-test lamps, and lights the STBY lamp
.OPERATE	Furnishes power to the heater, furnishes power to the cooler or to the focusing lamp, applies the +15 vdc and -15 vdc to the circuit boards 1A1A2 through 1A1A4 and light the OPER lamp.
RESET (momentary position).	Restores ac and dc power to the simulator after a power failure.
MODE: READY (Press-to-test lamp assembly)	Indicates the required temper- ature difference of 10°C exists between heater and cooler plates.
TGT/LAMP 2-position toggle switch).	*Sw Pos* — *Action* TGT — Applies 5 vdc to the cooler of the cooled plate assembly. LAMP — Applies 5 vdc to the focusing lamp.
ELAPSED TIME (meter).	Indicates total number of hours the simulator has had power applied.
INPUT: 28VDC (2-position circuit breaker).	*Sw Pos* — *Action* ON — Applies 28 vdc to filter assembly. OFF — Disconnects 28 vdc from filter assembly.
115V 30 (2-position circuit breaker).	*Sw Pos* — *Action* ON — Applies 115 vac to filter assembly. OFF — Disconnects 115 vac from filter assembly.
J1(P1) (connector).	Connects 28-vdc and 115-vac, 400-Hz, 3-phase power to the simulator from the receiver under test.

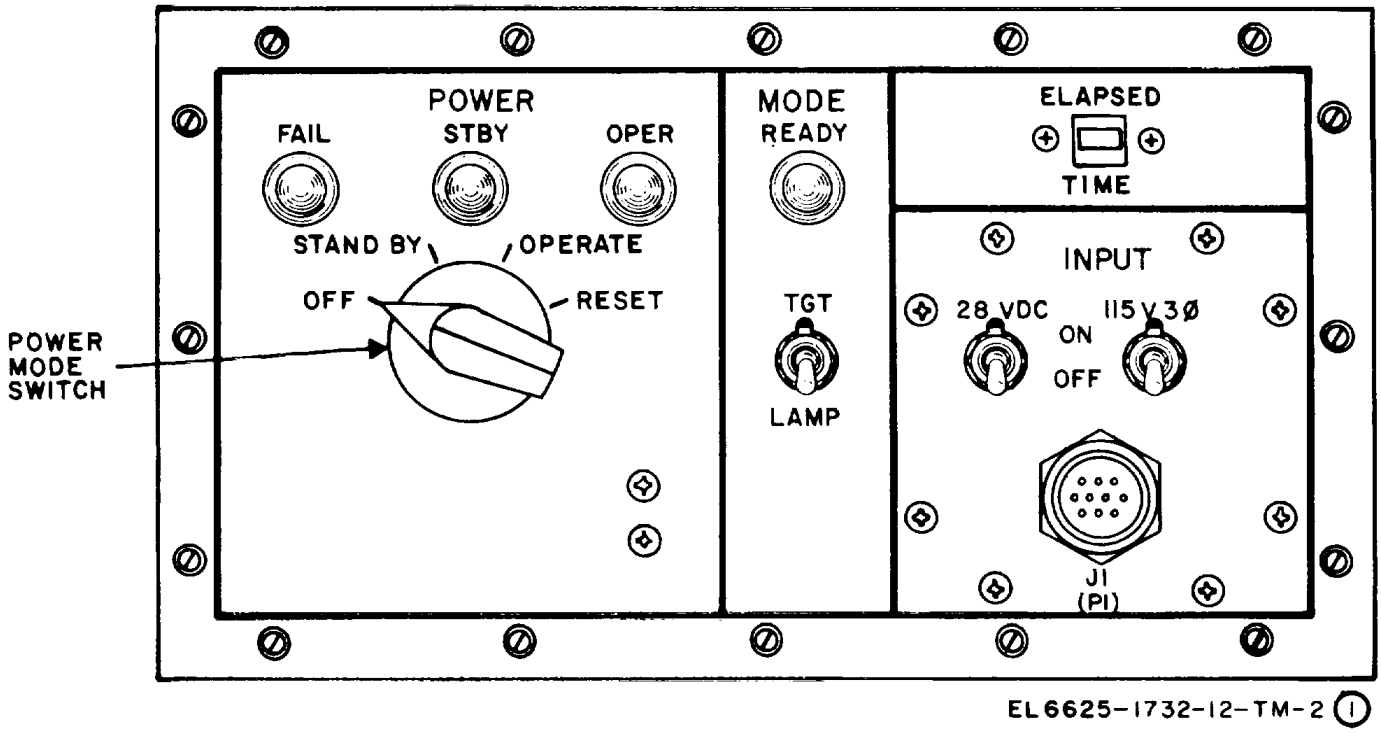

Figure 3-1. Resolution test set simulator, control box 1A1 controls, indicators and connectors.

Table 3-2. Resolution Test Set Target Analyzer, Control Unit 2A1 Controls, Indicators, and Connectors

Control or indicator	Function
Target Analyzer Control Panel 2A1 (fig. 3-2):	
115 VAC 30 (2-position circuit breaker).	*Sw Pos* — *Action* ON — Applies 115-vac power to control panel relay 2A1K1. OFF — Disconnects 115-vac power from 2A1K1.
28 VDC (2-position circuit breaker).	*Sw Pos* — *Action* ON — Applies 28-vdc power to control panel TEST MODE switch 2A1S2 and 2A1K1. OFF — Disconnects 28-vdc power from 2A1S2 and 2A1K1.
ELAPSED TIME (meter).	Indicates total number of hours target analyzer has had power applied.
POWER (2-position switch)	*Sw Pos* — *Action* ON — Applies 28 vdc to 2A1K1. OFF — Disconnects 28 vdc from 2A1K1.
ON (press-to-test lamp assembly).	Indicates 28 vdc is applied through closed contacts of 2A1K1.
ALIGN (press-to-test lamp assembly).	Indicates video signal of correct tolerance is present at the target analyzer preamp output and interface unit is properly aligned.
GO (press-to-test lamp assembly).	Indicates the system video amplitude is in tolerance or the noise equivalent temperature test is in tolerance.
FAIL (press-to-test lamp assembly).	Indicates out of tolerance video or noise equivalent temperature test.
TEST MODE (3-position rotary switch).	*Sw Pos* — *Action* NOISE EQUIV TEMP — Select net sample time and coarse comparator time and selects + 15 vdc to net input of target integrator 2A1A7. COARSE RESOLN — Selects medium sample coarse comparator time, and +15 vdc to coarse input of target

Control or indicator	Function
	Sw Pos *Action* *integrator 2A1A7.*

Control or indicator	Function
FINE RESOLN	*Selects fine sample time comparator time, and +15 vdc to input of target integrator 2A1A7.*

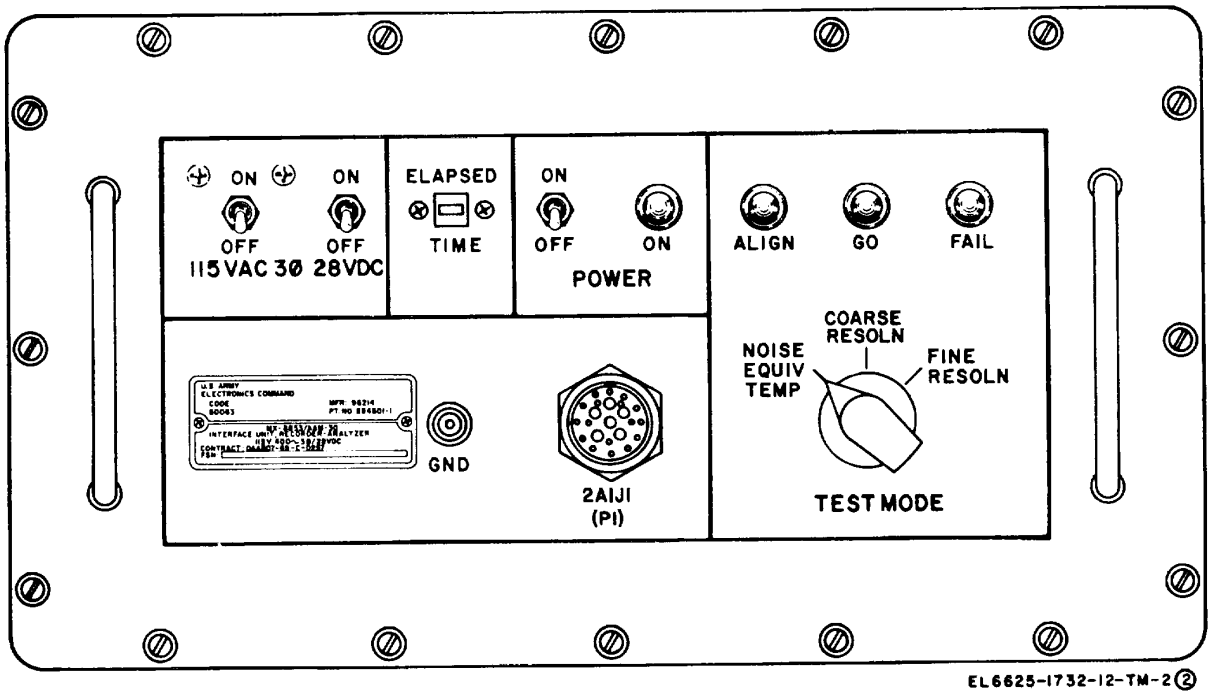

Figure 3-2. Resolution test set target analyzer controls unit 2A1 controls, indicators and connectors.

3-2. Resolution Test Set Simulator Resolution Plate Assembly 1A2 Controls and Indicators

(figs. 3-3 and 3-4)

Resolution test set simulator resolution plate-target assembly 1A2 controls and indicators are listed in table table 3-3.

Table 3-3. Simulator Resolution Target Assembly 1A2, Controls and Indicators

Control or indicator	Function
Cooled Plate Control (fig 3-4).	Positions the cold target to the vertical or horizontal position.
Target Focus	Slides heated plate assembly back and forth for focusing by varying the distance to the focal point of the parabolic mirror.
Focus Indicator.	Indicates the position of the resolution plate with respect to the parabolic mirror focal point and allows a visual indication of ∞ and 1000 feet settings.
Resolution Plate Slide.	Moves the heated plate assembly forward or back to position the heated plate assembly over the target mirror.
Focusing Lamp Adjust (fig 3-3).	Converges or diverges the light rays from the focusing lamp.

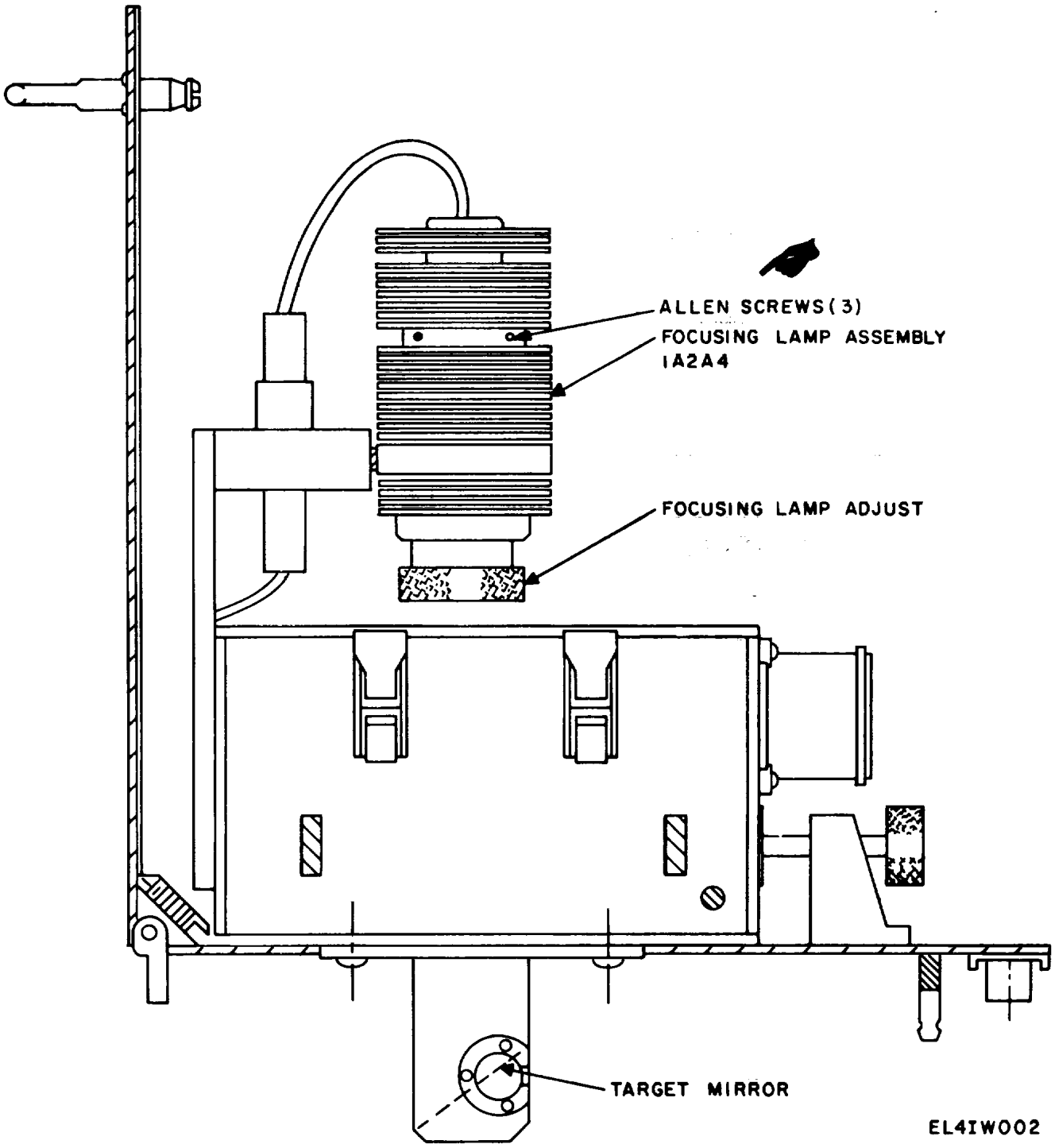

Figure 3-3. Simulator resolution target assembly 1A, side view.

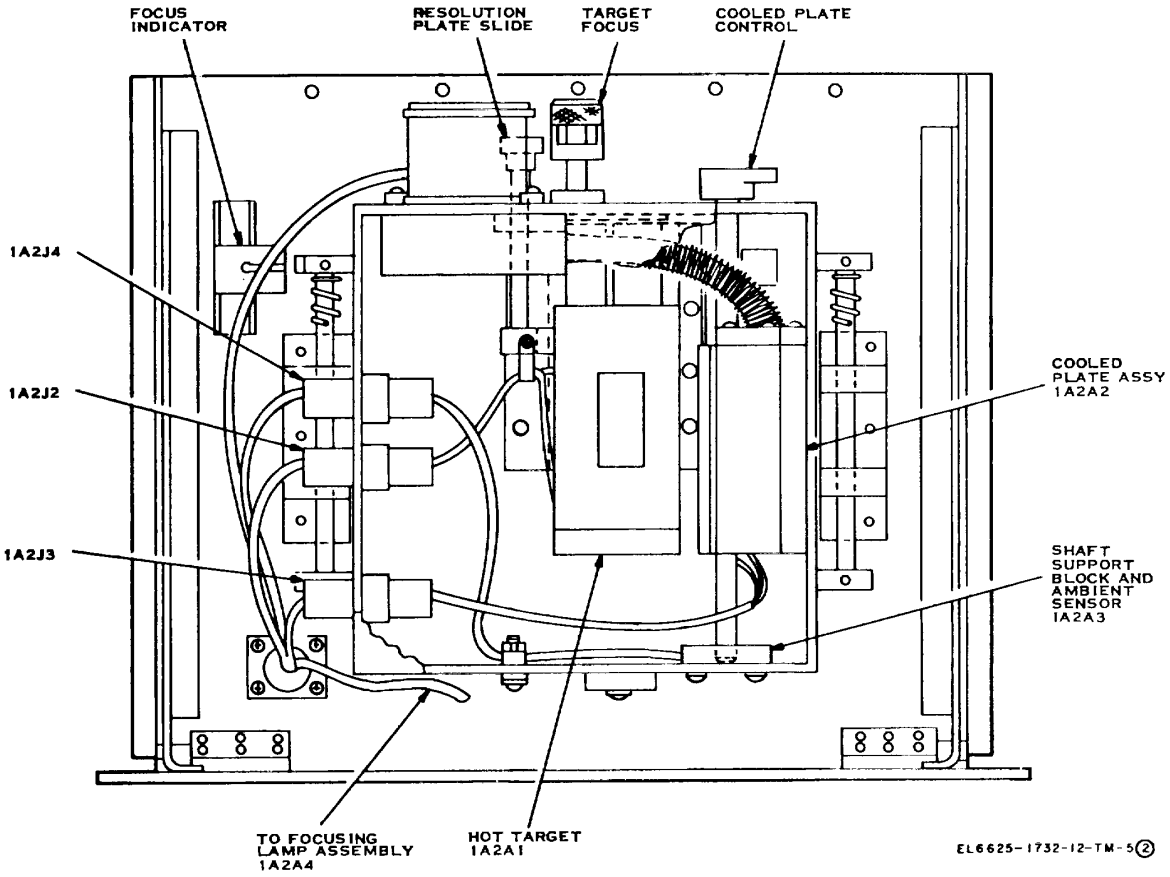

Figure 3-4. Simulator resolution target assembly 1A2, top view.

Section II. OPERATION UNDER USUAL CONDITIONS

3-3. Operating Procedures for Resolution Test Set

To operate the resolution test set perform the following procedures:

a. Preparation for use (pare 3-4).

b. Preliminary starting procedure (para 3-5).

c. Test procedure for unit under test (TM 11-5850-241-12 and TM 11-5850-241-34/1).

d. Stopping procedure (para 3-6).

3-4. Preparation for Use of Resolution Test Set

a. Assemble the alignment fixture as outlined in paragraph 2-5c.

b. Place the simulator under the alignment fixture and level.

c. Place the receiver on the alignment fixture as outlined in TM 11-5850-241-34/1.

d. Loosen the 2 fastener screws on each shelf of the simulator and raise each in turn by the handles to the vertical position and secure in position with the second set of 2 fastener screws (fig. 1-1(1)).

e. Set the 115 VAC 30 and 28 VDC circuit breakers of both units of the resolution test set to (fig. 3-1 and 3-2) OFF, set the power mode switch to OFF, and set the POWER switch to OFF.

f. Connect cable assembly 1W2 between receiver connector 1A1J4 and simulator connector

1A1J1; connect the special cable assembly 2W1 between the interface unit 2A2 and the recorder analyzer 2A1.

3-5. Preliminary Starting Procedure for Resolution Test Set

(figs. 3-1 and 3-2).

a. Set the 28 VDC circuit breakers on both the simulator and the target analyzer to ON.

b. Set the VAC 30 circuit breakers on both the simulator and the target analyzer to ON.

c. Set the simulator power mode switch to STANDBY and verify the STBY indicator lamp lights; set the target analyzer POWER switch to ON and verify ON indicator lamp lights.

3-6. Stopping Procedure for Resolution Test Set

(figs. 3-1 and 3-2).

a. Set the simulator power mode switch to OFF and verify the STBY and OPER indicator lamps extinguish; set the target analyzer POWER switch to OFF and verify the ON indicator lamp extinguishes.

b. Set the 28 VDC circuit breaker on both units to OFF.

c. Set the 115 VAC 30 circuit breaker on both units to OFF.

d. Disconnect cable assembly 1W2 from the resolution test set and the receiver. Store cable assembly 1W2 in the simulator case. Disconnect the special cable assembly from the interface unit and the recorder. Store the special cable assembly in the target analyzer cover.

e. Replace the resolution test set case covers and secure with the latches provided.

Section III. OPERATION UNDER UNUSUAL CONDITIONS

3-7. Operation at Low Temperatures

Freezing or subfreezing temperatures affect the efficient use of the test equipment. Extreme changes from cold to warm areas such as movement of the equipment into a heated area will cause condensation. To maintain operating efficiency under these conditions exercise the following precautions:

a. Operate the test equipment in a heated area.

b. When cold equipment is brought into a warm area, allow the equipment to reach room temperature. Wipe condensation off with a clean, dry cloth before putting the equipment into operation.

3-8. Operation in Tropical Climates

In tropical climates, moisture conditions are more acute than normal. Ventilation in closed areas is usually very poor, and the high relative humidity causes condensation of moisture on the equipment. Turn the equipment on once a day 3-6 to eliminate moisture and wipe dry with a clean, dry cloth.

3-9. Operation in Desert Climates

a. When operated in desert climates sand, dust, or dirt will reach the moving parts of the test equipment, causing binding of controls and switches. Foreign particles in connectors may cause faulty operation and test results. Make the operating area as dustproof as possible with available materials. If the test equipment is installed in a tent, secure the side walls with sand to prevent their flapping in the wind. When the equipment is not in use, secure the equipment in its case.

b. A drastic fall in temperature at night often causes condensation. To prevent condensation, cover the test equipment with a tarpaulin or similar covering material. +

c. Wipe off accumulated sand, dust, dirt, or condensation with a clean, dry cloth. Inspect connectors and clean as necessary before making test connections.

CHAPTER 4
MAINTENANCE INSTRUCTIONS

Section I. OPERATOR'S MAINTENANCE

4-1. Scope of Operator's Maintenance

The maintenance duties assigned to the operator of the resolution test set, alignment fixture, cable assembly set and maintenance kit, are listed below, together with a reference to the paragraphs covering the specific maintenance functions. The materials required for operator's maintenance are listed in paragraph 4-2.

a. Operator's daily preventive maintenance checks and services (para 4-5).

b. Cleaning (para 4-6).

c. Operator's weekly preventive maintenance checks and services (para 4-7).

4-2. Materials Required for Operator's Maintenance

The following materials are required to perform operator's maintenance of the items listed in paragraph 4-1.

a. Cleaning compound trichloroethane (6810664-0273).

b. Cleaning cloth.

c. Cleaning brush.

4-3. Preventive Maintenance

Preventive maintenance is the systematic care, servicing, and inspection of equipment to prevent the occurrence of trouble, to reduce downtime, and to insure that the equipment is serviceable.

a. Systematic Care. The procedures given in paragraphs 4-5, and 4-7 cover routine systematic care and cleaning essential to proper upkeep and operation of the equipment.

b. Preventive Maintenance Checks and Services. The preventive maintenance checks and services charts (charts 4-1 and 4-2) outline functions to be performed at specific intervals. These checks and services are to maintain Army equipment in a serviceable condition; that is, in good physical condition; and in good operating condition. To assist operators in maintaining serviceability, the charts indicate what to check, how to check, and the normal condition; the Reference column lists the paragraph that contains additional information. If the defect cannot be remedied by the operator, higher category of maintenance is required. Records and reports of these checks and services must be made in accordance with the requirements set forth in TM 38-750.

4-4. Preventive Maintenance Checks and Services Periods

Preventive maintenance checks and services of the equipment are required on a daily and weekly basis.

a. Paragraph 4-5 specifies the checks and services that must be accomplished daily and under the following conditions:

(1) When the equipment is initially installed.

(2) When the equipment is reinstalled after removal for any reason.

(3) At least once each week if the equipment is maintained in standby condition.

b. Chart 4-2 specifies additional checks and services that must be performed weekly.

4-5. Operator's Daily Preventive Maintenance Checks and Services

The operators daily preventive checks and services are listed in chart 4-1.

Chart 4-1. Operator's Daily Checks and Services

Sequence number	Item	Procedure	Reference
1	Exterior surfaces	Clean exterior surfaces, including control panels, of the resolution test set. **Warning: Dangerous voltages are used in this equipment. Death may result if contact is made with them. Make sure that no power is applied to equipment when checking or cleaning connectors.**	Para 4-6
2	Connectors	Check connectors on equipment and cables for security of attachment, and proper fit, and cleanliness.	Para 4-6c.
3	Controls and indicators	During operation of equipment (sequence no. 4), observe that each control and indicator functions properly. Mechanical action of each knob, dial, and switch should be smooth and free of external or internal binding. Tighten loose controls as required	None
4	Operation	When operating equipment (chapter 3), be alert for any unusual performance or condition.	None

4-6. Cleaning

Inspect the exteriors of all equipment. The exterior surfaces should be free of dust, dirt, grease and fungus.

a. Remove dust and loose dirt with a clean, soft cloth.

WARNING

The fumes of trichloroethane are toxic. Provide thorough ventilation whenever used. DO NOT use near an open flame. Trichloroethane is not flammable, but exposure of the fumes to an open flame converts the fumes to highly toxic, dangerous gases.

b. Remove grease, fungus, and ground-in dirt from the transit cases; use a cloth dampened (not wet) with cleaning compound.

c. Remove dust or dirt from plugs and jacks with a brush.

d. Clean the front panels and control knobs of the resolution test set; use a soft clean cloth. If dirt is difficult to remove, dampen the cloth with water; use mild soap if necessary.

4-7. Operator's Weekly Preventive Maintenance Checks and Services

The operator's weekly preventive maintenance checks and services are listed in chart 4-2.

Chart 4-2. Operator's Weekly Checks and Services

Sequence number	Item	Procedure	Reference
1	Cables	Inspect cable assemblies for signs of mechanical damage, such as chafed, cracked or frayed insulation. Refer damaged cables to higher category of maintenance for repair.	None
2	Gaskets	Inspect gaskets of transit cases for looseness, deterioration, or damage. If gaskets require replacement, refer to higher category of maintenance..	None

Section II. ORGANIZATIONAL MAINTENANCE

4-8. Scope of Organizational Maintenance

a. This section contains instructions covering organizational maintenance of the resolution test set, alignment fixture, maintenance kit and cable assembly set. It includes instructions for performing preventive and periodic maintenance services, troubleshooting, and repair functions to be accomplished by the organizational repairman.

b. Organizational maintenance of the resolution test set, alignment fixture, cable assembly set and maintenance kit, includes:

(1) Organizational monthly preventive maintenance checks and services (para 4-12).

(2) Organizational quarterly preventive maintenance checks and services (para 4-14).

(3) Touchup painting (para 4-15).

(4) Troubleshooting (para 4-17).

(5) Lamp removal and replacement procedure (para 4-19).

4-9. Tools and Materials Required

A list of parts authorized for organizational maintenance appears in appendix D. The tools and materials required for organizational maintenance are listed below.

a. Tools.

Tool Kit, Electronic Equipment TK-101/G (NSN 5180-00-064-5178).

b. ..Materials.. The materials required are listed in table 4-1.

Table 4-1. Materials Required

Material	NSN
Trichloroethane cleaning compound	6810-00-664-273
Cleaning cloth	
Lubricating oil, general purpose, preservative, (PL-Special)	9150-00-185-0629
Fine sandpaper	5350-00 -235-0124
Insulation tape, electrical (pressure sensitive adhesive plastic tape)	5970-00-644-2636
Paint brush (1 inch)	
Grease	

4-10. Organizational Preventive Maintenance

a. Preventive maintenance is the responsibility of all categories concerned with the equipment and includes the inspection, testing and repair or replacement of parts, subassemblies or units that inspection and tests indicate would probably fail before the next scheduled periodic service. Preventive maintenance checks and services of the test set at the organizational category are made at monthly and quarterly intervals unless otherwise directed by the commanding officer.

b. Maintenance forms and records to be used and maintained on this equipment are specified in TM 38-750.

4-11. Organizational Monthly Maintenance

Perform the maintenance functions indicated in the organizational monthly preventive maintenance checks and services chart (para 4-3) once each month. A month is defined as approximately 30 calendar days of 8-hour-per-day operation. If the equipment is used more often or under adverse conditions, the monthly preventive maintenance checks and services should be performed at 20or 15-day intervals. Adjustment of the maintenance interval must be made to compensate for any unusual operating conditions. Equipment maintained in a standby (ready for immediate operation) condition must have monthly preventive maintenance checks and services performed on it. Equipment in limited storage (requires service before operation) does not require monthly preventive maintenance.

4-12. Organizational Monthly Preventive Maintenance Checks and Services

The organizational monthly preventive maintenance checks and services are listed in chart 4-3.

Chart 4-3. Organizational Monthly Checks and Services

Sequence number	Item	Procedure	Reference
1	Cables	Inspect cable assemblies for cuts or other damage. Repair cut insulation by covering cut with plastic tape (NSN 5970-00-644-2636).	None
2	Handles, latches, etc	Inspect handles, latches, hinges, screws, and other such hardware for looseness. Tighten or replace as required.	None
3	Metal surfaces	Inspect exposed metal parts of equipment for rust and corrosion. Clean and touchup paint as required. **Note. If equipment is operated in tropical climate, dampen cloth with oil (PL-Special NSN 9150-00-185-0629) and apply light film of oil to metal parts and surfaces.**	Para 4-15

4-13. Organizational Quarterly Maintenance

Periodic weekly and monthly services constitute a part of the organizational quarterly preventive maintenance checks and services (chart 4-4) and must be performed concurrently. All deficiencies or shortcomings will be recorded in accordance with requirements of TM 38-750.

4-14. Organizational Quarterly Preventive Maintenance Checks and Services

The organizational quarterly preventive maintenance checks and services are listed in chart 4-4.

Chart 4-4. Organizational Quarterly Checks and Services

Sequence number	Item	Procedure	Reference
1	Publications	Check to see that all pertinent publications are current, complete and serviceable. Requisition pertinent publications not on hand.	DA Pam 310-4 and App A ,
2	Modifications	Determine whether new MWO's have been published. URGENT MWO's must be applied. All NORMAL MWO's must be scheduled(TM 38-750).	DA Pam 310-7
3	Completeness	Check to see that equipment is complete.	App B
4	Paint	Inspect equipment for condition of paint. If surfaces bear many scratches, turn equipment in for higher category maintenance.	
5	Operation	*a*. Prepare test set for use.	Para 3-4
		b. Perform preliminary starting procedure.	Para 3-5
		c. Perform stopping procedure.	Para 3-6

4-15. Touchup Painting

Remove rust and corrosion from metal surfaces by lightly sanding them with fine sandpaper. Brush two thin coats of paint (only on those parts meant to be painted) on the bare metal to protect it from further rust or corrosion. Refer to the applicable cleaning and refinishing practices specified in TM 9-213 and TB 74610. Refer to SB 11-573 for paint to be used.

4-16. Lubrication

a. Lubrication required for the resolution test set is limited to a light coat of grease on the hinged mirror slide grooves.

b. Apply a light coat of oil on wrenches and pliers in maintenance kit.

c. Apply grease on bearings, use grease gun on jacks of alignment fixture.

d. No lubrication requirement exists for the cable assembly set.

Section III. TROUBLESHOOTING

4-17. Preliminary Troubleshooting

a. Troubleshooting of the resolution test set is based upon the operational check contained in the quarterly preventive maintenance checks and services chart. To troubleshoot the resolution test set, perform sequence number 5 in the quarterly preventive maintenance checks and services chart (chart 4-4) and proceed until an abnormal condition or result is observed. Perform the checks and corrective measures indicated in the troubleshooting chart (chart 4-5). If the corrective measures indicated do not result in correction of the trouble, higher category of maintenance is required.

b. Troubleshooting of items contained in the alignment fixture, maintenance kit and the cable assembly set should be referred to higher category maintenance.

4-18. Resolution Test Set Troubleshooting

The troubleshooting procedures for the resolution test set are listed in chart 4-5.

Chart 4-5. Resolution Test Set Troubleshooting

Item - No.	Symptom	Probable trouble	Corrective Action
1	Any indicator does not light.	Defective indicator lamp.	Replace lamp (para 4-19).
2	All indicators do not light.	Defective power cables.	Replace power cables.
3	STBY indicator does not light.	Defective resolution test set.	Higher category maintenance required.
4	ELAPSED TIME meter fails to operate.	Defective ELAPSED TIME meter.	Higher category maintenance required.

4-19. Lamp Removal and Replacement Procedure

a. Unscrew three (3) Allen !crews on IA2A4 (fig. 3-3).

b. Grasp the lamp base at its rim and pull from the lampholder.

c. If a new lamp is required, press it into the holder and screw the holder into its panel socket.

CHAPTER 5
SHIPMENT AND LIMITED STORAGE

5-1. Repackaging for Shipment and Limited Storage

a. Repackaging of equipment for shipment or extended storage normally will be performed at a packaging facility or by a repackaging team. Should emergency packaging be required, select the materials from those listed in SB 38-100. Package the equipment in accordance with the original packaging so far as possible, using available materials.

b. The exact procedure for repackaging depends upon the material available and the conditions under which the equipment is to be stored or shipped. In most cases, the original shipping container will be available for repackaging; however, if this container is not readily available, use the packaging procedure outlined in TM 38-230.

c. The test equipment (para 2-2) may be stored for limited periods with the top covers of the transit case latched down.

5-2. Packaging Procedure

Proceed as follows to package the equipment.

a. Original Shipping Container Available.

(1) Remove the cover from the shipping container.

(2) Place the applicable test equipment in the container as shown in figure 2-1 making certain that the polyurethane foam cushioning material is in place on the bottom of the container and along the sides.

(3) Place cushioning material (4 pieces) on top of the equipment being packaged, replace and secure the container cover.

b. Original Container Not Available.

(1) Select cleated plywood boxes, conforming to Military Specification MIL-601, of the approximate size of the original containers (para 2-2). If plywood containers are not available, use suitable wooden boxes.

(2) Cut 3-inch polyurethane foam cushioning material (MIL-P-26514) to proper size to provide cushioning for the top, bottom and four sides of each container (fig. 2-1).

(3) Place foam inside container on bottom and four sides, using Adhesive MIL-A-140, if necessary, to hold in place.

NOTE

If a container is slightly larger than original container, it may be necessary to provide additional cushioning material to insure proper fit of the equipment in the container.

(4) Place each item of equipment in the container making certain that cushioning material is in place along the sides.

(5) Place cushioning material on top of the equipment being packaged.

(6) Place a cover on each container and secure in place with nails, spaced sufficiently close together to insure that the cover is securely attached to the container.

APPENDIX A
REFERENCES

DA Pam 310-4	Index of Technical Manuals, Technical Bulletins, Supply Manuals (Types 7, 8, and 9), Supply Bulletins, and Lubrication Orders.
DA Pam 310-7	US Army Equipment Index of Modification Work Orders.
SB 11-573	Painting and Preservation Supplies Available for Field Use for Electronics Command Equipment.
SB 38-100	Preservation, Packaging, Packing, and Marking Materials, Supplies, and Equipment Used by the Army.
TB 43-0118	Field Instructions for Painting and Preserving Electronics Command Equipment Including Camouflage Pattern Painting of Electrical Equipment Shelters.
TM 11-5850-241-12(C)	Operator's and Organizational Maintenance Manual, Including Repair Parts and Special Tools Lists: Detecting Set, Infrared AN/AAS-24 (FSN 5850-179-8429) (U). TM 11-5850-241-34/1(U) DS and GS Maintenance Manual: Detecting Set, Infrared AN/AAS-24 (Volume 1 of 2) (U).
TM 11-5850-241-34/2(C)	DS and GS Maintenance Manual: Detecting Set, Infrared AN/AAS-24 (Volume 2 of 2) (U).
TM 11-6625-1703-15	Operator, Organizational, DS, GS, and Depot Maintenance Manual Including Repair Parts and Special Tools List: Oscilloscope AN/USM-281A.
TM 38-230-1	Packaging of Materiel - Preservation (Volume 1) (DSAM 4141.2/NAVSUP PUB 502/AFP 71-15/MCO P4030.31B)
TM 38-230-2	Packaging of Materiel, Packing, Volume II (DLAM 4145.2, Vol II/NAVSUP Pub 503, Vol II AFP 71-16/MCO P4030.21C
TM 38-750	The Army Maintenance Management System (TAMMS).
TM 740-90-1	Administrative Storage of Equipment.
TM 740-244-2	Procedures for Destruction of Electronic Materiel to Prevent Enemy Use (Electronics Command).

APPENDIX B
BASIC ISSUE ITEMS LIST (BILL) AND ITEMS TROOP INSTALLED OR AUTHORIZED LIST (ITIAL)

Section I. INTRODUCTION

B-1. Scope

This appendix lists only basic issue items required by the crew/operator for installation, operation, and maintenance of the Test Set, Resolution AN/AAM-30; Cable Assembly Set, Electrical MX-8408/AAS-24; Maintenance Kit, Electronic Equipment MK-1172/AAS-24 and Fixture, Alignment MX-8409/AAS-24.

B-2. General

This Basic Issue Items and Items Troop Installed or Authorized List is divided into the following sections:

a. Basic Issue Items List Section II. A list in alphabetical sequence, of items which are furnished with, and which must be turned in with the end item.

b. Items Troop Installed or Authorized List Section III. Not applicable.

5-3. Explanation of Columns

The following provides an explanation of columns found in the tabular listings:

a. Illustration. This column is divided as follows:

(1) Figure Number. Indicates the figure number of the illustration in which the item is shown.

(2) b. Federal Stock Number. Indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. Description. Indicates the Federal item name and a minimum description required to identify the item.

(1) Part Number. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design and characteristics of the item by means of its engineering drawings, specifications standards, and inspection requirements, to identify an item or range of items.

(2) Federal Supply Code for Manufacturer (FSCM). The FSCM is a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency, etc., and is identified in SB 708-42.

d. Quantity Furnished With Equipment (Basic Issue Items Only). Indicates the quantity of the basic issue item furnished with the equipment.

SECTION II. BASIC ISSUE ITEMS LIST

(1) ILLUSTRATION (A) FIG. NO.	(1) ILLUSTRATION (B) ITEM NO.	(2) FEDERAL STOCK NUMBER	(3) DESCRIPTION PART NUMBER & FSCM / USABLE ON CODE	T	(4) QTY FURN WITH EQUIP
1-1		6625-433-2406	COVER, ANALYZER GROUP CW-1128/AAM-30		1
1-1		6625-491-7102	CASE, TEST SET CY-6874/AAM-30		1
1-2		6625-196-2842	CASE, CABLE ASSEMBLY SET CY-6875/AAS24		1
1-5		6625-489-0472	CASE, ALIGNMENT FIXTURE CY-6881/AAS-24		1
1-4		5850-491-7087	CASE, ELECTRONIC EQUIPMENT MAINTENANCE KIT CY-6898/AAS-24		1
1-4			TOOL BOX SUBASSEMBLY: 696106-1 (96214)		1

APPENDIX C
MAINTENANCE ALLOCATION

Section I. INTRODUCTION

C-1. General

This appendix provides a summary of the maintenance operations covered in the equipment literature for Test Set, Resolution AN/AAM-30; Cable Assembly Set, Electrical MX-8408/AAS24; Maintenance Kit, Electronic Equipment MK-1172/AAS-24; and Fixture, Alignment MX-8409/AAS-24. It authorizes categories of maintenance for specific maintenance functions on repairable items and components and the tools and equipment required to perform each function. This appendix may be used as an aid in planning maintenance operations.

C-2. Maintenance Functions

Maintenance functions will be limited to and defined as follows:

a. Inspect. To determine serviceability of an item by comparing its physical, mechanical, and electrical characteristics with established standards.

b. Test. To verify serviceability and to detect incipient electrical or mechanical failure by use of special equipment such as gages, meters, etc. This is accomplished with external test equipment and does not include operation of the equipment and operator type tests using internal meters or indicating devices.

c. Service. To clean, to preserve, to charge, and to add fuel, lubricants, cooling agents, and air. If it is desired that elements, such as painting and lubricating, be defined separately, they may be so listed.

d. Adjust. To rectify to the extent necessary to bring into proper operating range.

e. Align. To adjust two or more components or assemblies of an electrical or mechanical system so that their functions are properly synchronized. This does not include setting the frequency control knob of radio receivers or transmitters to the desired frequency.

f. Calibrate. To determine the corrections to be made in the readings of instruments of test equipment used in precise measurement. Consists of the comparison of two instruments, one of which is a certified standard of known accuracy, to detect and adjust any discrepancy in the accuracy of the instrument being compared with the certified standard.

g. Install. To set up for use in an operational environment such as an encampment, site,. or vehicle.

h. Replace. To replace unserviceable items with serviceable like items.

i. Repair. To restore an item to serviceable condition through correction of specific failure or unserviceable condition. This function includes, but is not limited to welding, grinding, riveting, straightening, and replacement of parts other than the trial and error replacement of running spare type items such as fuses, lamps, or electron tubes.

j. Overhaul. Normally, the highest degree of maintenance performed by the Army to minimize time work in process and is consistent with quality and economy of operation. It consists of that maintenance necessary to restore an item to completely serviceable condition as prescribed by maintenance standards in technical publications for each item of equipment. Overhaul normally does not return an item to like new, zero mileage, or zero hour condition.

k. Rebuild. The highest degree of material maintenance. It consists of restoring equipment as nearly as possible to new condition in accordance with original manufacturing standards. Rebuild is performed only when required by operational considerations or other paramount factors and then only at the depot maintenance category. Rebuild reduces to zero the hours or miles the equipment,. or component thereof, has been in use.

1. Symbols. The uppercase letter placed in the appropriate column indicates the lowest level at which that particular maintenance function is to be performed.

C-3. Explanation of Format The columns in Sections II through V, Maintenance Allocation Charts, are as follows:

a. Column 1, group number. Column 1 lists group numbers, the purpose of which is to identify components, assemblies, subassemblies and modules with the next higher assembly.

b. Column 2, functional group. Column 2 lists the noun names of components, assemblies, subassemblies and modules on which maintenance is authorized.

c. Column 3, maintenance functions. Column 3 lists the maintenance category at which performance of the specific maintenance function is authorized. Authorization to perform a function at any category also includes authorization to perform that function at higher categories.

The codes used represent the various maintenance categories as follows:

Code Maintenance Category
C..... Operator/Crew
O..... Organizational Maintenance
F ..... Direct Support Maintenance
H..... General Support Maintenance
D- Depot Maintenance

d. Column 4, tools and test equipment. Column 4 specifies, by code, those tools and test equipment required to perform the designated function. The numbers appearing in this column refer to specific tools and test equipment which are identified in Table 1.

e. Column 5, Remarks. Self-explanatory.

C-4. Explanation of Format of Table 1, Tool and Test Equipment Requirements

The columns in Section VI Tool and Test Equipment Requirements are as follows:

a. Tools or Test Equipment Reference Code. Not used.

b. Maintenance Category. The codes in this column indicate the maintenance category normally allocated the facility.

c. Nomenclature. This column lists tools, test, and maintenance equipment required to perform the maintenance functions.

d. Federal Stock Number. This column lists the federal stock number of the specific tool or test equipment.

e. Tool Number. The numbers in this column coincide with the numbers in the tools and equipment column of the maintenance allocation charts (Sections II through V).

SECTION II. MAINTENANCE ALLOCATION CHART FOR TEST SET, RESOLUTION AN/AAM-30

GROUP NUMBER	COMPONENT ASSEMBLY NOMENCLATURE	MAINTENANCE FUNCTIONS											TOOLS AND EQUIPMENT	REMARKS
		A	B	C	D	E	F	G	H	I	J	K		
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
	Test Set, Resolution AN/AAM-30	0		0				0	0				5	
			H		H	H				H			1,4,6	
											D	D	1,4	
1	Simulator, Test Targets SM-580/AAM-30	0		0				0	0				5	
				H		H	H			H			1,4,614	
											D	D	1,4	
1A1	Control Box Assembly		H						H	H			1,4	
												D	1,4	
1A1A1	Power Control				D				H				1,4	
			D							D	D		1.4	
1AIA2	Control, Heater				D	H			H				1,4	
			D							D	D		1,4	
1A1A3	Control, Cooler				D	H			H				1,4	
			D							D	D		1,4	
1AlA4	Comparator, Temperature Voltage				D	H			H				1,4	
			D							D	D		1,4	
1A1A1	Panel, Control		H						H	H			1,4	
											D		1.4	
1A1A6	Grounded Diode Assembly		H						H	H			1,4	
											D		1,4	
1A1A7	Insulated Diode Assembly		H						H	H			1,4	
											D		1,4	
1A2	Resolution Target Assembly		H						H	H			1,4	
											D		1,4	
1A2A1	Heated Plate Assembly		H						H	H			1,4	
											D		1,4	
1A2A2	Cooled Plate Assembly		H						H	H			1,4	
											D		1,4	
1A2A3	Shaft Support Block	O											5	
			H						H	H			1,4	
											D		1,4	
1A2A4	Focusing Lamp Assembly	o											5	
			H						H	H			1,4	
												D	1,4	

SECTION II. MAINTENANCE ALLOCATION CHART FOR TEST SET, RESOLUTION AN/AAM-30

GROUP NUMBER	COMPONENT ASSEMBLY NOMENCLATURE	MAINTENANCE FUNCTIONS											TOOLS AND EQUIPMENT	REMARKS
		A	B	C	D	E	F	G	H	I	J	K		
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
1W1	Cable Assembly, Power Electrical, Branched	O							O				5	
	CX-12390/AAM-30		H							H			2,4	
											D		2,4	
1W2	Cable Assembly, Special Purpose, Electrical	O							O				5	
	CX-12391/AAM-30		H							H			2,4	
											D		2,4	
1A1AS A1	Assembly, Filter		H						H	H			2,4	
											D		2,4	
1MP11	Case, Test Set CY-6874/AAM-30	O											5	
			H						H	H			4	
											D		4	
2	Analyzer Group, Recorder Output OQ-96/AAM-30	O						O	O				1,3,5	
			D			D				D	D	D	1,3,4,9,14	
2A1	Analyzer, Recorder Output TS-3036/AAM-30	O						O	O				1,3,5	
			D			D				D	D	D	1,3,4,9	
2A1A1 thru 2A1A3	Heatsink		D		D				D	D	D		1,4,8SJ1	
2A1A4	+ 13vdc Regulator		D		D				D	D	D		1,4,8	
2A1A5	+6vdc Regulator		.D		D				D	D	D		1,4,8	
2A1A6	Video Interface		D		D				D	D	D		1,3,4,9	
2A1A7	Target Integrators		D		D				D	D	D		1,3,4,9	
2A1A8	Time Mark Generator		D		D				D	D	D		1,3,4,9	
2A1A9	Alignment Detector		D		D				D	D	D		1,4,811	
2A1A10	Revolution and GO Counters		D	D					D	D	D		1,4,1	
2A2	Interface Unit, Recorder Analyzer MX-8853/AAM-30	O		D		D		O	O	D	D		1,3,5 1,4,9	

2A2A1	Video Preamp		D							D	D			1,3,4,9,12,13
2W1	Cable Assembly, Special Purpose Electrical CX-12525/AAM-30	O	H					O	O	H		5		2,4
										D				2,4

Section III. MAINTENANCE ALLOCATION CHART FOR CABLE ASSEMBLY SET, ELECTRICAL MX-8408/AAS-24

GROUP NUMBER	COMPONENT ASSEMBLY NOMENCLATURE	MAINTENANCE FUNCTIONS											TOOLS AND EQUIPMENT	REMARKS
		A	B	C	D	E	F	G	H	I	J	K		
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
	Cable Assembly Set, Electrical MX48408/AAS-24	O						O	O				5	
			H							H			2,4	
											D	D	2,4	
1MP1	Came, Cable Assembly CY-6875/AAS-24	O							O				5	
											D	D	4	
1W1	Cable Assembly, Power, Electrical, Branched CX-12392/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W2	Cable Assembly, Special Purpose, Electrical CX-12393/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W8	Cable Assembly, Special Purpose, Electrical CX-12394/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W4	Cable Assembly, Special Purpose, Electrical CX-12395/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W5	Cable Assembly, Special Purpose, Electrical CX-12396/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W6	Cable Assembly, Special Purpose, Electrical CX-12397/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W7	Cable Assembly, Special Purpose, Electrical CX-1298/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W8	Cable Assembly, Special Purpose, Electrical CX-1299/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W9	Cable Assembly, Special Purpose, Electrical CX12400/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	

Section III. MAINTENANCE ALLOCATION CHART FOR CABLE ASSEMBLY SET, ELECTRICAL MX-8408/AAS-24-CONTINUED

GROUP NUMBER	COMPONENT ASSEMBLY NOMENCLATURE	MAINTENANCE FUNCTIONS											TOOLS AND EQUIPMENT	REMARKS
		Inspect	Test	Service	Adiust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
1W10	Cable Assembly, Special Purpose, Electrical CX-12401/AAS-24	O							O				6	
			H							H			2,4	
											D		2,4	
1W11	Cable Assembly, Special Purpose, Electrical CX-12402/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W12	Cable Assembly, Special Purpose, Electrical CX-12403/AAS-24	O							O				6	
			H							H			2,4	
											D		2,4	
1W13	Cable Assembly, Special Purpose, Electrical CX-12404/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W14	Cable Assembly, Special Purpose Electrical CX-12406/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W15	Cable Assembly, Special Purpose, Electrical CX-12406/AAS-4	O							O				6	
			H							H			2,4	
											D		2,4	
1W16	Cable Assembly, Special Purpose, Electrical CX-12407/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	

Section IV. MAINTENANCE ALLOCATION CHART FOR CABLE ASSEMBLY SET, ELECTRICAL MX-8408/AAS-24-CONTINUED

GROUP NUMBER	COMPONENT ASSEMBLY NOMENCLATURE	MAINTENANCE FUNCTIONS											TOOLS AND EQUIPMENT	REMARKS
		Inspect	Test	Service	Adiust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
	Maintenance Kit, Electronic Equipment MK-1172/AAS-24	O		O				O	O				5	
			H							H			1,2,4	
											D	D	1,2,3,4	
1A1	Meter, Light Intensity IM-221/AAS-24	O							O				5	
			H							H			1,3,4,7,10	
					D						D		1,3,4,10	

1A2	Attenuator, Fixed CN-1347/AAS-24	O							O				5	
			H							H			4	
											D		2,4	
1AS	Comparator, Voltage CM-402/AAS-24	O							O				2,5	
			H							H			4	
											D		2,4	
1A26A4	Extender, Circuit Card MX-8766/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A27A5	Extender, Circuit Card MX-8768/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A28A6	Extender, Circuit Card MX-8771/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A29A7	Extender, Circuit Card MX-8772/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A30A8	Extender, Circuit Card MX-8764/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A31A9	Extender, Circuit Card MX-8763/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A32A10	Extender, Circuit Card MX-8773/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A33A11	Extender, Circuit Card MX-8774/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1AS4A12	Extender, Circuit Card MX-8775/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
IA35A13	Extender, Circuit Card MX-8765/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A36A14	Extender, Circuit Card MX-8769/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A37A15	Extender, Circuit Card MX-8770/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1A29Al7	Extender, Circuit Card MX-8776/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	

Section IV. MAINTENANCE ALLOCATION CHART FOR MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-1172/AAS-24-Continued

GROUP NUMBER	COMPONENT ASSEMBLY NOMENCLATURE	MAINTENANCE FUNCTIONS											TOOLS AND EQUIPMENT	REMARKS
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
1A25A18	Extender, Circuit Card MX-8767/AAS-24	O							O				5	
			H							H			2,4	
											D		2,4	
1W1	Cable Assembly, Meter, Light Intensity	O											5	
			H							H			2	
											D		2,4	

Section V. MAINTENANCE ALLOCATION CHART FOR FIXTURE, ALIGNMENT MX-8409/AAS-24

GROUP NUMBER	COMPONENT ASSEMBLY NOMENCLATURE	MAINTENANCE FUNCTIONS											TOOLS AND EQUIPMENT	REMARKS
		Inspect	Test	Service	Adjust	Align	Calibrate	Install	Replace	Repair	Overhaul	Rebuild		
1	Fixture, Alignment MX-8409/AAS-24	O		O				O	O				5	
										H			4,5	
											D	D	4,5	

Section VI. TOOL AND TEST EQUIPMENT REQUIREMENTS FOR TEST SET, RESOLUTION AN/AAM-30; CABLE ASSEMBLY SET, ELECTRICAL MX-8408/AAS-24; MAINTENANCE KIT, ELECTRONIC EQUIPMENT MK-1172/AAS-24; FIXTURE, ALIGNMENT MX-8409/AAS-24

TOOL AND TEST EQUIPMENT REQUIREMENTS

TOOLS AND EQUIPMENT	MAINTE-NANCE CATEGORY	NOMENCLATURE	FEDERAL STOCK NUMBER	TOOL NUMBER
	H, D	Digital Voltmeter, Non-Linear Systems Model X-2		1
	H, D	Multimeter TS-352B-U	6625-553-0142	2
	H, D	Oscilloscope, AN/USM-281A	6625-228-2201	3
	H, D	Tool Kit, Electronic Equipment TK-105/G	5180-605-0079	4
	O	Tool Kit, Electronic Equipment TK-101/G	5180-064-5178	5
	H	Digital Thermometer, United Systems Corporation Model 501		6
	H	Test Set, Terrain-Calibration Indicator AN/AAM-33	6625-403-1070	7
	D	Test Set, Electronic Circuit Plug-In Unit AN/AAM-39	6625-459-3403	8
	D	Target Analyzer Test Set		9
	H, D	Signal Generator AN/USM-264		10
	D	Pulse Generator (Hewlett-Packard Model 222A)	Commercial	11
	H, D	Generator, Signal SG-769/U (Wavetek 111)		12
	D	Test Set, Infrared Detecting Set AN/AAM-38	6625-459-3402	13
	H	Maintenance Kit, Electronic Equipment MK-1172/AAS-24	5850-434-5539	14

APPENDIX D

ORGANIZATIONAL MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST

Section I, INTRODUCTION

D-1. Scope

This appendix lists repair parts and special tools required for the performance of organizational maintenance of Test Set, Resolution AN/AAM30; Cable Assembly Set, Electrical MX-8408/ AAS-24; Maintenance Kit, Electronic Equipment MK-1172/AAS-24; and Fixture, Alignment MX-8409/AAS-24.

D-2. General

This Repair Parts and Special Tools List is divided into the following sections:

a. Prescribed Load Allowance (PLA)-Section II. A composite listing of the repair parts, special tools, test and support equipment having quantitative allowances for initial stockage at the organizational level.

b. Repair Parts-Section III. A list of Test/ Set, Resolution AN/AAM-30 (sequence numbers' A409 through B942); Cable Assembly Set, Electrical MX-8408/AAS-24 (sequence numbers B974 through C133); Alignment Fixture MX8409/AAS-24 (sequence number C417); and Maintenance Kit, Electronic Equipment MK1172/AAS-24 (sequence) numbers C454 through D223) repair parts authorized for the performance of maintenance at the organizational level in figure and item number sequence.

c. Special Tools, Test and Support Equipment. Not applicable.

D-3. Explanation of Columns

The following provides an explanation of columns.

a. Source, Maintenance, and Recoverability Codes (SMR), Column 1:

(1) Source code, indicates the selection status and source for the listed item. Source" codes are:

Code *Explanation*

P - Repair parts which are stocked in or supplied from the GSA/DSA, or Army supply system and authorized for use at indicated maintenance categories.

M -- Repair parts which are not procured or stocked, but are to be manufactured in indicated maintenance levels.

A - Assemblies which are not procured or stocked as such, but are made up of two or more units. Such component units carry individual stock numbers and descriptions, are procured and stocked separately and can be assembled to form the required assembly at indicated maintenance categories.

X1 - Repair parts which are not procured or stocked. The requirement for such items will be filled by use of the next higher assembly or component.

X2 - Repair parts which are not stocked. The indicated maintenance category requiring such repair parts will attempt to obtain same through cannibalization. Where such repair parts are not obtainable through cannibalization, requirements will be requisitioned, with accompanying justification, through normal supply channels.

G - Major assemblies that are procured with PEMA funds for initial issue only as exchange assemblies at DSU and GSU level. These assemblies will not be stocked above DS and GS level or returned to depot supply level.

(2) Maintenance code, indicates the lowest category of maintenance authorized to install the listed item. The maintenance level code is:

C..... Crew or operator maintenance.
O..... Organizational maintenance.
F ..... Direct support maintenance.
H..... General support maintenance.
D..... Depot maintenance.

(3) Recoverability code, indicates whether unserviceable items should be returned for recovery or salvage. Items not coded are expend able Recoverability codes are:

Code *Explanation*

R - Repair parts and assemblies which are economically reparable at DSU and GSU activities and normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically reparable, they will be evacuated to a depot for evaluation and analysis before final disposition.

S - Repair parts and assemblies which are economically reparable at DSU and GSU activities and which normally are furnished by supply on an exchange basis. When items are determined by a GSU to be uneconomically reparable, they will be evacuated to a depot for evaluation and analysis before final disposition.

T - High dollar value recoverable repair parts which are subject to special handling and are issued on an exchange basis. Such repair parts normally are repaired or overhauled at depot maintenance activities.

U - Repair parts specifically selected for salvage by reclamation units because of precious metal content, critical materials, or high dollar value reusable casings or castings.

b. Federal Stock Number, Column 2. This column indicates the Federal stock number assigned to the item and will be used for requisitioning purposes.

c. Description, Column 3. This column indicates the Federal item name and any additional description of the item required. The abbreviation "w/e", when used as a part of the nomenclature, indicates the Federal stock number includes all armament, equipment, accessories, and repair parts issued with the item. A part number or other reference number is followed by the applicable five-digit Federal supply code for manufacturers in parentheses. Repair parts quantities included in the kits, sets, and assemblies are shown in front of the repair part name. Material required for manufacture or fabrication is identified.

d. Unit of Measure (U/M), Column 4. A 2 character alphabetic abbreviation indicating the amount of quantity of the item upon which the allowances are based, e.g., ft, ea, pr, etc.

e. Quantity Incorporated in Unit, Column 5. This column indicates the quantity of the item used in the unit. A "V" appearing in this column in lieu of a quantity indicates that a definite quantity cannot be indicated (e.g., shims, spacers, etc).

f. 15-Day Organizational Maintenance Allowance, Column 3.

(1) The allowance columns are divided into four subcolumns. Indicated in each subcolumn opposite the first appearance of each item is the total quantity of items authorized for the number of equipments supported. Subsequent appearances of the same item will have the letters "REF" in the allowance columns. Items authorized for use as required but not for initial stockage are identified with an asterisk in the allowance column.

(2) The quantitative allowances for organizational level of maintenance represents one initial prescribed load for a 15-day period for the number of equipments supported. Units and organizations-authorized additional prescribed loads will multiply the number of prescribed loads authorized by the quantity of repair parts reflected in the density column applicable to the number of items supported to obtain the total quantity of repair parts authorized.

(3) Organizational units providing maintenance for more than 100 of these equipments shall determine the total quantity of parts required by converting the equipment quantity to a decimal factor by placing a decimal point before the next to last digit of the number to indicate hundredths, and multiplying the decimal factor by the parts quantity authorized in the 51-100 allowance column. Example, authorized allowance for 5i-100 equipments is 40; for 150 equipments multiply 40 by 1.50 or 60 parts required.

(4) Subsequent changes to allowances will be limited as follows: No change in the range of items is authorized. If additional items are considered necessary, recommendation should be forwarded to the Maintenance Engineering Directorate, AMSEL-ME-NMP-RS, Fort Monmouth, N.J. for exception or revision to the allowance list. Revisions to the range of items authorized will be made by the Maintenance Engineering Directorate based upon engineering experience, demand data, or TAERS information.

g. Illustration,-Column 7. This column is divided as follows:

(1) Figure Number, Column 7a. Indicates the figure number of the illustration in which the item is shown.

(2) Item Number, Column 7b. Indicates the , callout number used to reference the item in the illustration.

D-4. Special Information

a. Parts which require manufacture or assembly at a category higher than that authorized

for installation will indicate in the source column the higher category.

b. For end items authorized mandatory stockage of repair parts by the Department of the Army, on a case by case basis, the mandatory stockage items are indicated by a plus "+" sign as the first character in the end item density columns of both the Repair Parts List and the Prescribed Load Allowance for each such authorized allowance quantity.

D-5. How to Locate Repair Parts

Locate the sequence number in the Repair Parts List Sequence Number/SMR Code column which TM 11-6625-1732-12 is in ascending alpha-numeric order, to find the repair part.

D-6. Abbreviations Not applicable.

D-7. Federal Supply Codes for Manufacturers

Code	*Manufacturer*
71744	Chicago Miniature Lamp Works
96214	Texas Instruments Incorporated, Apparatus Division
96906	Military Standards

SECTION II. PRESCRIBED LOAD ALLOWANCES

(1) FEDERAL STOCK NUMBER	(2) DESCRIPTION	(3) 15-DAY ORG. MAINT. ALLOWANCE			
		(A) 1-5	(B) 6-20	(C) 21-50	(D) 51-100
5850-434-5555	EXTENDER, CIRCUIT CARD MX-8763/AMS-24	*	*	1	1
5850-434-5558	EXTENDER, CIRCUIT CARD MX-8764/AAS-24	*	*	1	1
5850-434-5556	EXTENDER, CIRCUIT CARD MX-8765/AAS-24	*	*	1	1
5850-459-3318	EXTENDER, CIRCUIT CARD MX-8766/AAS-24	*	*	1	1
5850-434-5561	EXTENDER, CIRCUIT CARD MX-8767/AAS-24	*	*	1	1
5850-434-5563	EXTENDER, CIRCUIT CARD MX-8768/AAS-24	*	*	1	1
5850-459-3319	EXTENDER, CIRCUIT CARD MX-8769/AAS-24	*	*	1	1
5850-459-3317	EXTENDER, CIRCUIT CARD MX-8770/AAS-24	*	*	1	1
5850-459-3314	EXTENDER, CIRCUIT CARD MX-8771/AA324	*	*	1	1
5850-459-3316	EXTENDER, CIRCUIT CARD MX-8772AAS-24	*	*	1	1
5850-434-5547	EXTENDER, CIRCUIT CARD MX-8773/AAS-24	*	*	1	1
5850-434-5544	EXTENDER, CIRCUIT CARD MX-8774/AAS-24	*	*	1	1
5850-434-5557	EXTENDER, CIRCUIT CARD MX-8775/AAS-24	*	*	1	1
5850-434-5543	EXTENDER, CIRCUIT CARD MX-8776/AAS-24	*	*	1	1
6240-155-7836	LAMP, INCANDESCENT: MS-25237-327 (96906)	1	1	3	5

SECTION III - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) REF NUMBER & MFR CODE / USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW				(7) ILLUSTRATION	
		DESCRIPTION			(a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	FIG. NO.	(a) (b) ITEM NO. OR REFERENCE DESIGNATION
A409 P--O--	5355-985-6888	KNOB, CONTROL: YS91528-2M2B (96906)	EA	2	*	*	*	*	1-1	2A1MPSMP4
A410 P--O--	6240-155-7836	LAMP, INCANDESCENT: MS25237-327 (96906)	EA	8	1	1	3	5	1-1	2A1DS1
A411 P--O--	6240-155-7836	LAMP, INCANDESCENT: MS25237-327 (96906)	EA	REF	REF	REF	REF	REF	1-1	2A1DS2
A412 P--O--	6240-155-7836	LAMP, INCANDESCENT: MS25237-327 (96906)	EA	REF	REF	REF	REF	REF	1-1	2A1DS3
A413 P--O--	6240-155-7836	LAMP, INCANDESCENT: MS25237-327 (96906)	EA	REF	REF	REF	REF	REF	1-1	2A1DS4
A976 P--O-S	6625-434-5728	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12525/AAM-30	EA	1	*	*	*	*	1-1	2W1
B166 P--O-S	6625-470-4316	CABLE ASSEMBLY, POWER, ELECTRICAL, EA BRANCHED CX-12390/AAM-30	1	*	*	*	*	*	1-1	1W1
B175 P--O-S	6625-480-5679	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12391/AAM-30	EA	1	*	*	*	*	1-1	1W2
B567 P--O--	5355-985-6888	KNOB, CONTROL: MS91528-2M2B (96906)	EA	REF	REF	REF	REF	REF	1-1	1A1A5MP5
B568 P--O--	6240-155-7836	LAMP, INCANDESCENT: YS25237-327 (96906)	EA	REF	REF	REF	REF	REF	1-1	1A1A5DS1
B569 P--O--	6240-155-7836	LAMP, INCANDESCENT: S525237-327 (96906)	EA	REF	REF	REF	REF	REF	1-1	1A1A5DS2
B570 P--O--	6240-155-7836	LAMP, INCANDESCENT: US25237-327 (96906)	EA	REF	REF	REF	REF	REF	1-1	1A1A5DS3
B571 P--O--	6240-155-7836	LAMP, INCANDESCENT: MS25237-327 (96906)	EA	REF	REF	REF	REF	REF	1-1	1A1A5DS4
B942 P--O--	LAMP, INCANDESCENT: CM8-100 (71744)		EA	1	*	*	*	2	1-1	1A2A4DS1
B974 P--O-S	6625-493-9355	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12393/AAS-24	EA	1	*	*	*	*	1-2	1W2
B984 P--O-S	6625-489-0436	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12394/AAS-24	EA	1	*	*	*	*	1-3	1W3
B992 P--O-S	6625-489-6103	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12395/AAS-24	EA	1	*	*	*	*	1-3	1W4
COO1 P--O-S	6625-403-5841	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12396/AAS-24	EA	1	*	*	*	*	1-3	1W5
C009 P--O-S	6625-489-0450	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12397/AAS-24	EA	1	*	*	*	*	1-3	1W6
C021 P--O-S	6625-489-0453	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12398/AAS-24	EA	1	*	*	*	*	1-3	1W7
C035 P--O-S	6625-408-5087	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12399/AAS-24	EA	1	*	*	*	*	1-3	1W8
C047 P--O-S	6625-489-0454	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12400/AAS-24	EA	1	*	*	*	*	1-3	1W9
CO59 P--O-S	6625-409-8203	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12401/AAMS-24	EA	1	*	*	*	*	1-3	1W10
C068 P--O--	6625-407-7131	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12402/AAS-24	EA	1	*	*	*	*	1-3	1W11
C080 P--O-S	6625-489-0455	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12403/AAS-24	EA	1	*	*	*	*	1-3	1W12
C089 P--O-S	6625-252-5808	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12404/AAS-24	EA	1	*	*	*	*	1-3	11W13
C097 P--O-S	6625-489-2664	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12405/AAS-24	EA	1	*	*	*	*	1-3	11W14

SECTION III - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) REF NUMBER & MFR CODE / USABLE ON CODE	(4) UNIT OF DESCRIPTION	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW IN	(a) 6-20	(b) 21-50	(c) 51-100	(7) ILLUSTRATION (d) FIG. NO.	(a) (b) ITEM NO. OR REFERENCE DESIGNATION
D191 P--O—	5120-237-4090	PULLER, CARD: 696000-2 (96214)	EA	1	*	*	*	*	1-4	1MP8YP13
D216 P--O--	5120-419-9597	TOOL, MICROSCOPE ADJUST, INNER: 665684-1 (96214)	EA	1	*	*	*	*	1-4	1MP8MP5
D217 P--O--	5120-419-9594	TOOL, MICROSCOPE ADJUST, OUTER: 665683-1 (96214)	EA	1	*	*	*	*	1-4	1MPSP6
D218 P--O--	5120-419-9596	WRENCH, CONNECTOR: 665707-1 (96214)	EA	1	*	*	*	*	1-4	1MP8SP7
D219 P--O--	5120-	WRENCH, SPANNER, ADJUSTABLE: 418882-1 (96214)	EA	1	*	*	*	*	1-4	1MP8YP8
D220 P--O--	5120-444-2210	WRENCH, SPANNER, ADJUSTABLE: 418882-2 (96214)	EA	1	*	*	*	*	1-4	1UP8RP9
D221 P--O--	5120-419-9598	WRENCH, SPANNER: 633961-1 (96214)	EA	1	*	*	*	*	1-4	1YP8SP10
D222 P--O--	5120-419-9595	WRENCH, SPANNER: 633965-1 (96214)	EA	1	*	*	*	*	1-4	1MPS8P11
D223	5120-232-6391	WRENCH, SPANNER: 665547-1 (96214)	EA	1	*	*	*	*	1-4	1MP8MP12

SECTION III - REPAIR PARTS FOR ORGANIZATIONAL MAINTENANCE

(1) SMR CODE	(2) FEDERAL STOCK NUMBER	(3) REF NUMBER & MFR CODE / USABLE ON CODE	(4) UNIT OF MEAS	(5) QTY INC IN UNIT	(6) 15-DAY ORGANIZATIONAL MAINTENANCE ALW (a) 1-5	(b) 6-20	(c) 21-50	(d) 51-100	(7) ILLUSTRATION (a) FIG. NO.	(b) ITEM NO. OR REFERENCE DESIGNATION
C106 P--O-S	6625-403-1062	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12406/AAS-24	EA	1	*	*	*	*	1-3	1N15
Cl19 P--O-S	6625-489-6139	CABLE ASSEMBLY, SPECIAL PURPOSE, ELECTRICAL CX-12407/AAS-24	EA	1	*	*	*	*	1-3	1W16
C133 P--O--	6625-489-2675	CABLE ASSEMBLY, POWER, ELECTRICAL, BRANCHED CX-12392/AAS-24	EA	1	*	*	*	*	1-3	1W1
C417 P--O--	5850-237-4061	LEVEL, ALIGNMENT FIXTURE: 692308-1 (96214)	EA	1	*	*	*	*	1-5	1MP9
C454 P--O-S	5905-481-3089	ATTENUATOR, FIXED CN-1347/AAS-24	EA	1	*	*	*	*	1-4	1A2
C491 P--O--	5355-543-0789	KNOB, CONTROL: US91528-1N2B (96906)	EA	2	*	*	*.	*	1-4	1A3MP2
C492 P--O--	5355-543-0789	KNOB, CONTROL: MS91528-1N2B (96906)	EA	REF	REF	REF	REF	REF	1-4	1A3MP3
C519 P--O-S	5850-434-5555	EXTENDER, CIRCUIT CARD MX-8763/MAAS-24	EA	1	*	*	1	1	1-4	1A9
C552 P--O-S	5850-434-5558	EXTENDER, CIRCUIT CARD NX-8764/AAS-24	EA	1	*	*	1	1	1-4	1A8
C594 P--O-S	5850-434-5556	EXTENDER, CIRCUIT CARD MX-8765/AAS-24	EA	1	*	*	1	1	1-4	1A13
C629 P--O-S	5850-459-3318	EXTENDER, CIRCUIT CARD NX-8766/AAS-24	EA	1	*	*	1	1	1-4	1A4
C676 P--O-S	5850-434-5561	EXTENDER, CIRCUIT CARD NX-8767/MAAS-24	EA	4	*	*	*	1	1-4	1A16
C716 P--O-S	5850-434-5561	EXTENDER, CIRCUIT CARD MX-8767/MAAS-24	EA	REF	REF	REF	REF	REF	1-4	A1A6
C717 P--O-S	5850-434-5561	EXTENDER, CIRCUIT CARD NX-8767/AAS-24	EA	REF	REF	REF	REF	REF	1-4	1A16
C718 P--O-S	5850-434-5561	EXTENDER, CIRCUIT CARD IX-8767/AAS-24	EA	REF	REF	REF	REF	REF	1-4	1A16
C719 P--O-S	5850-434-5563	EXTENDER, CIRCUIT CARD NX-8768/AAS-24	EA	2	*	*	1	1	1-4	1A5
C768 P--O-S	5850-434-5563	EXTENDER, CIRCUIT CARD NX-8768/AAS-24	EA	REF	REF	REF	REF	REF	1-4	1A5
C769 P--O-S	5850-459-3319	EXTENDER, CIRCUIT CARD MX-8769/AAS-24	EA	1	*	*	1	1	1-4	1A14
C804 P--O-S	5850-459-3317	EXTENDER, CIRCUIT CARD MX-8770/AAS-24	EA	1	*	*	1	1	1-4	1A15
C845 P--O-S	5850-459-3314	EXTENDER, CIRCUIT CARD NX-8771/AAS-24	EA	1	*	*	1	1	1-4	1A6
C934 P--O-S	5850-459-3316	EXTENDER, CIRCUIT CARD MX-8772/AAS-24	EA	1	*	*	1	1	1-4	1A7
C979 P--O-S	5850-434-5547	EXTENDER, CIRCUIT CARD NX-8773/AAS-24	EA	1	*	*	1	1	1-4	1A10
D015 P--O-S	5850-434-5544	EXTENDER, CIRCUIT CARD EX-8774/AAS-24	EA	1	*	*	1	1	1-4	1A11
D050 P--O-S	5850-434-5557	EXTENDER, CIRCUIT CARD RX-8775/AAS-24	EA	1	*	*	1	1	1-4	1A12
D085 P--O-S	5850-434-5543	EXTENDER, CIRCUIT CARD NX-8776/AAS-24	EA	1	*	*	1	1	1-4	1A17
D125 P--O--	6760-445-4650	FILM, MODIFIED: 670010-1 (96214)	EA	1	1	*	*	*	1-4	1NP2P11
D188 P--O--	6625-470-4318	TEMPLATE, LINEARITY NX-8777/AAS-24	EA	1	*	*	*	*	1-4	1NP7

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