# **TECHNICAL MANUAL**

AVIATION UNIT AND INTERMEDIATE MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST (INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST)

AUXILIARY POWER UNIT ELECTRONIC SEQUENCE UNIT

MULTI-PURPOSE TEST SET

PART NUMBER 161226-200

NSN 4920-01-121-0605

HEADQUARTERS, DEPARTMENT OF THE ARMY
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TECHNICAL MANUAL

HEADQUARTERS DEPARTMENT OF THE ARMY WASHINGTON, D.C., 23 December1983

TM 55-4920-431-23P

# Aviation Unit and Intermediate Maintenance Repair Parts and Special Tools List (Including Depot Maintenance Repair Parts and Special Tools List)

# AUXILIARY POWER UNIT ELECTRONIC SEQUENCE UNIT MULTI-PURPOSE TEST SET PART NUMBER 161226-200 NSN 4920-01-121-0605

Current as of 11 February 1983

# REPORTING ERRORS AND RECOMMENDING IMPROVEMENTS

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# Section I. INTRODUCTION

# 1. Scope.

This manual lists repair parts, special tools, special test, measurement, and diagnostic equipment (TMDE), and other special support equipment required for performance of aviation unit maintenance (AVUM) and aviation intermediate maintenance (AVIM) of the Auxiliary Power Unit Electronic Sequence Unit Multi-Purpose Test Set. It authorizes the requisitioning and issue of repair parts as indicated by the source and maintenance codes.

# 2. General.

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

- a. Section II. Repair Parts List. A list of repair parts authorized for use in the performance of maintenance. The list also includes parts which must be removed for replacement of authorized parts. Parts lists are composed of functional groups in numeric sequence with the parts in each group listed in figure and item number sequence. Bulk materials are listed in NSN sequence.
- b. Section III. Special Tools List. A list of special tools, special TMDE, and other special support equipment authorized for the performance of maintenance.
- c. Section IV. National Stock Number and Part Number Index. A list in National item identification number (NIIN) sequence, of all National stock numbers (NSN) appearing in the listings, followed by a list in alphanumeric sequence of all part numbers appearing in the listings. National stock numbers and part numbers are cross-referenced to each illustration figure and item number appearance.

# 3. Explanation of Columns.

- a. Illustration. This column is divided as follows:
  - (1) Figure Number. Indicates the figure number of the illustration on which the item is shown.
  - (2) Item Number. The number used to identify item called out in the illustration.
- b. Source, Maintenance, and Recoverability (SMR) Codes.
- (1) Source Code. Source codes indicate the manner of acquiring support items for maintenance, repair, or overhaul of end items. Source codes are entered in the first and second positions of the Uniform SMR Code format as follows:

Code	Definition
PA	- Item procured and stocked for anticipated
РВ	<ul> <li>or known usage.</li> <li>Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply system.</li> </ul>
PC	<ul> <li>Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.</li> </ul>
PD	<ul> <li>Support item, excluding support equipment, procured for initial issue or outfitting and stocked only for subsequent, or additional initial issues or outfittings. Not subject to automatic replenishment.</li> </ul>
PE	<ul> <li>Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.</li> </ul>
PF	<ul> <li>Support equipment which will not be stocked, but which will be centrally procured on demand.</li> </ul>
PG	<ul> <li>Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item pecu- liar to the equipment which, because of probable discontinuance or shutdown of production facilities would prove uneco-</li> </ul>
KD	nomical to reproduce at a later time.  - An item of a depot overhaul/repair kit and not purchased separately. Depot kit defined as a kit that provides items required at the time of overhaul of repair.
KF	<ul> <li>An item of a maintenance kit and not purchased separately. Maintenance kit defined as a kit that provides an item that can be replaced at unit or intermediate levels of maintenance.</li> </ul>
КВ	<ul> <li>Item included in both a depot overhaul kit and a maintenance kit.</li> </ul>
MO	Item to be manufactured or fabricated at unit level.
MF	Item to be manufactured or fabricated at the intermediate maintenance level.
MD	<ul> <li>Item to be manufactured or fabricated at the depot maintenance level.</li> </ul>
AO AF	<ul><li>Item to be assembled at unit level.</li><li>Item to be assembled at intermediate</li></ul>
AD	<ul><li>maintenance level.</li><li>Item to be assembled at depot maintenance level.</li></ul>

Code	Definition
XA	<ul> <li>Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.</li> </ul>
XB	<ul> <li>Item is not procured or stocked. If not available through salvage requisition.</li> </ul>
XC	<ul> <li>Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.</li> </ul>
XD	<ul> <li>A support item that is not stocked. When required item will be procured through normal supply channels.</li> </ul>

NOTE: Cannibalization or salvage may be used as a source of supply for any items coded above, except those coded XA and aircraft support items as restricted by AR 700-42.

(2) Maintenance Code. Maintenance codes are assigned to indicate the levels of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third or fourth positions of the Uniform SMR Code format as follows:

(a) The maintenance code entered in the third position will indicate the lowest maintenance level authorized to remove, replace, and use the support item. The maintenance code entered in the third position will indicate one of the following levels of maintenance.

Code	Application/Explanation
0	<ul> <li>Support item is removed, replaced, used at the unit level.</li> </ul>
F	<ul> <li>Support item is removed, replaced, used at the intermediate level.</li> </ul>
D	<ul> <li>Support items that are removed, replaced, used at depot, mobile depot, or special- ized repair activity only.</li> </ul>

(b) The maintenance code entered in the fourth position indicates whether the item is to be repaired and identifies the lowest maintenance level with the capability to perform complete repair (i.e., all authorized maintenance functions). This position will contain one of the following maintenance codes.

Code	Application/Explanation
0	<ul> <li>The lowest maintenance level capable of</li> </ul>
	complete repair of the support item is the
	unit level.
F	<ul> <li>The lowest maintenance level capable of complete repair of the support item is the</li> </ul>
	intermediate level

Code	Application/Explanation
D	<ul> <li>The lowest maintenance level capable of complete repair of the support item is the depot level.</li> </ul>
L	<ul> <li>Repair restricted to (enter applicable designated specialized repair activity), Specialized Repair Activity.</li> </ul>
Z	<ul> <li>Nonreparable. No repair is authorized</li> </ul>
В	<ul> <li>No repair is authorized. The item may be reconditioned by adjusting, lubricating, etc., at the user level. No parts or special tools are procured for the mainte- nance of this item.</li> </ul>

(3) Recoverability Code. Recoverability codes are assigned to support items to indicate the disposition action on unserviceable items. The recoverability code is entered in the fifth position of the Uniform SMR Code format as follows:

Recoverability Code	Definition
Z	<ul> <li>Nonreparable item. When unserviceable, condemn and dispose at the level indi- cated in position 3.</li> </ul>
0	<ul> <li>Reparable item. When uneconomically reparable, condemn and dispose at unit level.</li> </ul>
F	<ul> <li>Reparable item. When uneconomically reparable, condemn and dispose at the intermediate level.</li> </ul>
D	<ul> <li>Reparable item. When beyond lower level repair capability, return to depot. Con- demnation and disposal not authorized be- low depot level.</li> </ul>
L	<ul> <li>Reparable item. Repair, condemnation, and disposal not authorized below depot/ specialized repair activity level.</li> </ul>
A	<ul> <li>Item requires special handling or condemnation procedures because of specific reasons (i.e., precious metal content, high dollar value, critical material or hazardous material). Refer to appropriate manuals/directives for specific instructions.</li> </ul>

c. National Stock Number. Indicates the National stock number assigned to the item and which will be used for requisitioning.

d. Federal Supply Code for Manufacturers (FSCM). The FSCM is a 5-digit numeric code listed in SB 708-42 which is used to identify the manufacturer, distributor, or Government agency, etc.

e. 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.

# NOTE: When a stock-numbered item is requisitioned, the item received may have a different part number than the part being replaced.

- f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. Items that are included in kits and sets are listed below the name of the kit or set with the quantity of each item in the kit or set indicated in the quantity incorporated in unit column. When the part to be used differs between serial numbers of the same model, the effective serial numbers are shown as the last line of the description. In the Special Tools List, the initial basis of issue (B01) appears at the last line in the entry for each special tool, special TMDE, and other special support equipment. When density of equipments supported exceeds density spread indicated in the basis of issue, the total authorization is increased accordingly.
- g. Unit of Measure (U/M). Indicates the standard of the basic quantity of the listed item as used in performing the actual maintenance function. This measure is expressed by a two-character alphabetical abbreviation (e.g., ea, in, pr, etc). When the unit of measure differs from the unit of issue, the lowest unit of issue that will satisfy the required units of measure will be requisitioned.
- h. Quantity Incorporated in Unit. Indicates the quantity of the item used in the breakout shown on the illustration figure, which is prepared for a functional group, subfunctional group, or an assembly. A "V" appearing in this column in lieu of a quantity indicates that no specific quantity is applicable, (e.g., shims, spacers, etc).
- 4. Special Information.
- a. Detailed assembly instructions for items source coded to be assembled are found in TM 55-4920-431-13. Assembly components are listed immediately following the item to be assembled.
  - b. The following publications pertain to the APU and its components:

TM 55-4920-431-13 Test Set, Operator's, Aviation Unit and Intermediate Maintenance Manual

c. When details of an assembly are found on another text page, the description of that assembly is followed by a notation stating where these details can be located. "Example: 161223-100, Plate Assembly, See Figure 3 for Breakdown." The parts that make up the Plate Assembly will be found on the text listing for figure 3.

- 5. How to Locate Repair Parts.
  - a. When National Stock Number or Part Number is Unknown:
- (1) First. Using the table of contents, determine the functional group within which the item belongs. This is necessary since illustrations are prepared for functional groups, and listings are divided into the same groups.
  - (2) Second. Find the illustration covering the functional group to which the item belongs.
  - (3) Third. Identify the item on the illustration and note the illustration figure and item number of the item.
  - (4) Fourth. Using the Repair Parts Listing, find the figure and item number noted on the illustration.
  - b. When National Stock Number or Part Number is Known:
- (1) First. Using the Index of National Stock Numbers and Part Numbers, find the pertinent National stock number or part number. This index is in NIIN sequence followed by a list of part numbers in alphanumeric sequence, cross-referenced to the illustration figure number and item number.
- (2) Second. After finding the figure and item number, locate the figure and item number in the repair parts list.

# 6. Abbreviations.

Abbreviations	Explanation
AMP APU ASSY EA EXH FIG GRN IDENT IND LED MS NHA NIIN QTY RECPT SPDT TEMP	Ampere Auxiliary Power Unit Assembly Each Exhaust Figure Green Identification Indicator Light Emitting Diode Military Specification Next Higher Assembly National Item Identification Number Quantity Receptacle Single Pole Double Throw Temperature
U/M YEL	Unit of Measure Yellow

# Section II. REPAIR PARTS LIST

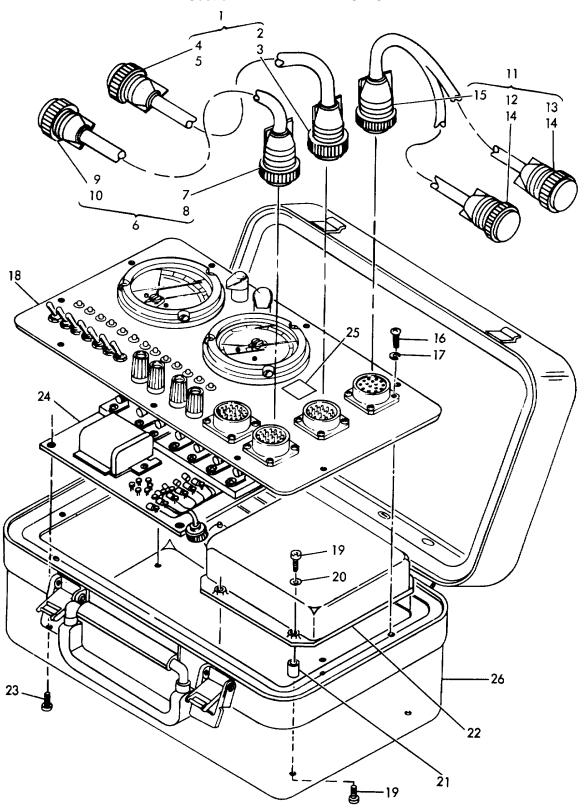
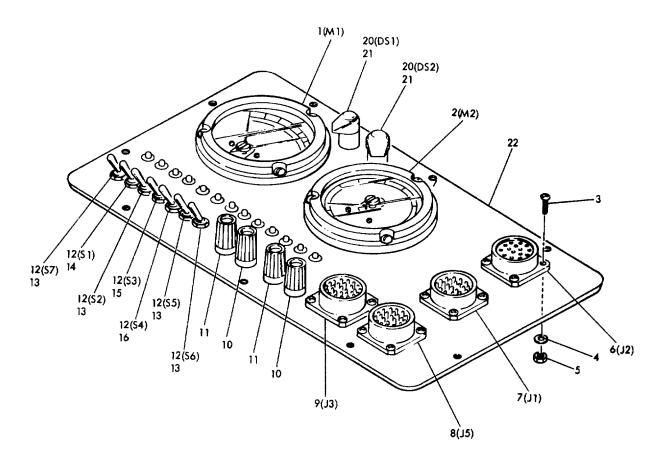


Figure 1. APU Tester

	1) TRATION	(2)	(3)	(4)	(5)	(6)	(7)	(8)
		•				DESCRIPTION		QTY
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	INC IN UNIT
		2225				GROUP 01 APU TESTER	ļ_,	
1	1	PBOFF	4920-01-138-6967	55820	161228-200	HARNESS,WIRING	EA	1
1	2 3	PBFZZ	5935-00-518-3376	96906	MS3476L18-325	.CONNECTOR, PLUG, ELEC	EA	1
1	-	PBPZZ	5935-01-013-4594	96906	MS3417-18N	.CLAMP, CABLE, ELECTRI	EA	1
1	4	PBFZZ	5935-00-003-2502	81349	M83723-87R1624N	.CONNECTOR, PLUG, ELEC	EA	1
1 1	5 6	PBFZZ PBOFF	5935-00-528-9302 4920-01-138-6968	96906	MS3417-16N	.CLAMP, CABLE, ELECTRI	EA	1
'	7	PBFZZ	5935-00-518-3576	55820 96906	161227-200 MS3476L18-32S	CONNECTOR, PLUG, ELEC	EA EA	1
'	8	PBFZZ	5935-00-518-3576	96906	MS3417-18N	.CLAMP, CABLE, ELECTRI	EA	1
'	9	PBFZZ	5935-01-068-0925	81349	M83723-82R-1624N		EA	1
'	10	PBFZZ	5913-00-528-9302	96906	MS3417-16N	.CLAMP, CABLE, ELECTRI	EA	1
'	11	PBOFF	4920-01-140-9964	55820	161229-200	HARNESS, WIRING	EA	1
'	12	PBFZZ	5930-00-199-7618	81349	M83723-83R1415N		EA	1
'	13	PBFZZ	5935-00-199-7619	81349	M83723-86R1415N	,	EA	1
'	14	PBFZZ	5935-00-199-7619	96906	MS3417-14N	.CLAMP, CABLE, ELECTRI	EA	2
'	15	PBFZZ	5935-00-518-3566	96906	MS3476L18-32P	.CONNECTOR, PLUG, ELEC	EA	1
'	16	PBFZZ	5305-00-944-8272	96906	MS2703900806	SCREW. MACHINE	EA	10
'	17	PBFZZ	5505-00-944-6272	96906	M35331-155	WASHER, LOCK	EA	10
'	18	XDDDD		55820	161220-100	PANEL ASSY, FRONT	EA	10
'	19	PBFZZ	5305-00-488-6512	96906	MS3212-23	SCREW, MACHINE	EA	4
'	20	XDFZZ	3303-00-400-0312	96906	MS27183-7	WASHER	EA	4
'	21	PAFZZ	5340-01-112-2793	80205	NAS1786C08-12	POST, ELECTRICAL-MEC	EA	4
'	22	PBFZZ	4920-01-138-6969	55820	160240-400	CONTROL ASSY, ANALOG	EA	1
'	23	PBFZZ	5301-01-029-0713	96906	MS3212-11	SCREW, MACHINE	EA	4
'	23	XDFZZ	3301-01-029-0713	55820	161223-100	PLATE, ASSY, MOUNTING	EA	1
'	2 <del>4</del> 25	XCFZZ		55820	161223-100	PLATE, IDENT	EA	1
'	26	XAFZZ		55820	161221-1	CASE, INSTRUMENT	EA	1
'	20	XDFZZ	5975-00-482-3954	96906	MS3368-5-9E	STRAP, TIEDOWN, ELECT	EA	3
'		XAFZZ	3973-00-402-3934	99195	K/ALKTW-20F-KK	WIRE, THERMOCCUPLE	FT	V
'		XAFZZ		81349	M16878	WIRE, 20AWG TYPE E	FT	V
'		XAFZZ		81349	M16878	WIRE, SHIELDED, TY E	FT	V
'		XAFZZ		81349	MIL-631,TYPEF	SLEEVING INSULATED	FT	V
'		XAFZZ		81349	MIL-631,TYPEF	SLEEVING INSULATED	FT	V
'		XAFZZ		81349	M16878	WIRE, SHIELDED TY E	FT	
'		XAFZZ		81349	M16878	WIRE, 20AWG TYPE E	FT	
'		XAFZZ		99195	K/ALKTW-20F-KK	WIRE, THERMOCCUPLE	FT	V
'		XDFFZ	5975-00-482-3954	96906	MS3368-5-9E	STRAP, TIEDOWN, ELECT	EA	3
'		XDFFZ	5975-00-482-3954	96906	MS3368-5-9E	STRAP, TIEDOWN, ELECT	EA	4
'		XAFZZ	337 3 33 402-3334	81349	MIL-I-631TYPEF		1	V
'		XAFZZ		81349	M16878	WIRE, SHIELDED TY E	1	V

	1) TRATION	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			NATIONAL			DESCRIPTION		QTY
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	INC IN UNIT
1		XAFZZ		81349	M16878	WIRE, 20AWG TYPE E	FT	V
1		PAFZZ	8040-01-009-0317	71984	RTV102	ADHESIVE	TU	v



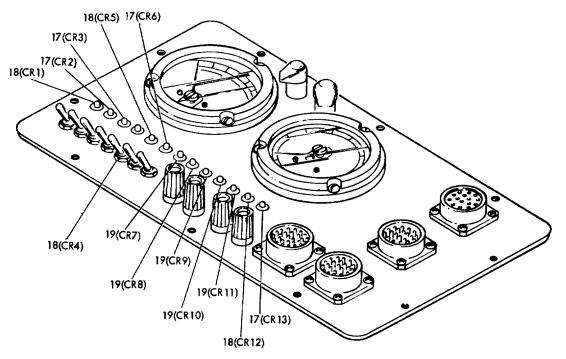


Figure 2. Front Panel Assembly

	(8)
LE ON CODE LI/M	QTY INC IN
EA E	
	EA E

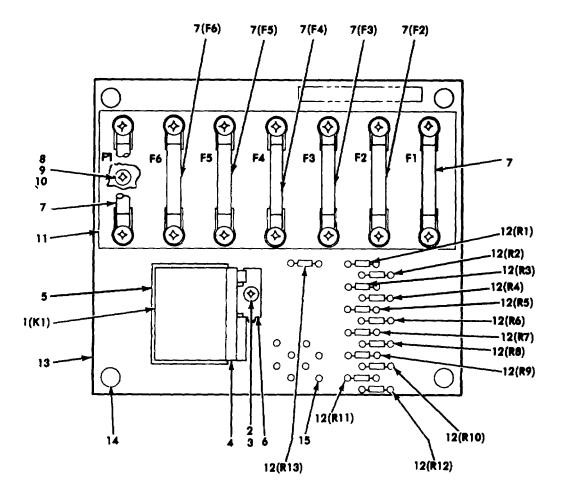


Figure 3. Mounting Plate Assembly.

(ILLUS	1) TRATION	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	FSCM	PART NUMBER	DESCRIPTION  USABLE ON CODE	U/M	QTY INC IN UNIT
NO.	NO.	CODE	NUMBER	FSCIVI	NUMBER	USABLE ON CODE	U/IVI	UNIT
3		XDDDD		55820	161223-100	PLATE ASSEMBLY	EA	1
3	1	PBFZZ		77342	R10-E1-X8-V350	RELAY, .24DC,	EA	1
3	2	PBFZZ	5305-00-054-6650	96906	MS51957-26	SCREW, MACHINE	EA	1
3	3	PBFZZ		96906	MS35333-154	WASHER, LOCK	EA	1
3	4	PBFZZ	5935-01-035-6165	77342	27E211	SOCKET, PLUG-IN ELEC	EA	1
3	5	PBFZZ	5360-01-046-9674	77342	20C266	.SPRING, HELICAL, COMP	EA	1
3	6	PBFZZ	5935-01-029-4013	77342	27E152	SOCKET, PLUG-IN ELEC	EA	1
3	7	PBFZZ		75915	3AG3AMP	.FUSE, 3AMP	EA	7
3	8	PBFZZ	5305-00-719-5064	96906	MS5159-30	.SCREW, MACHINE	EA	3
3	9	PBFZZ		96906	MS35333-154	.WASHER, LOCK	EA	3
3	10	PBFZZ	5310-00-982-6813	96906	MS21044C06	.NUT, SELF-LOCKING, HE	EA	3
3	11	XDFZZ		75915	356007	.FUSEBLOCK	EA	1
3	12	PBFZZ	5905-00-104-8362	81349	RCR07G132JS	.RESISTOR, FIXED, COMP	EA	13
3	13	XDFZZ		55820	161222-1	.PLATE MOUNTING	EA	1
3	14	PBFZZ	5340-01-088-0524	86245	B1530C-3/8-11	STANDOFF, THREADED	EA	4
3	15	PBFZZ	5940-00-082-4861	81349	SE12XC04	TERMINAL, STUD	EA	34

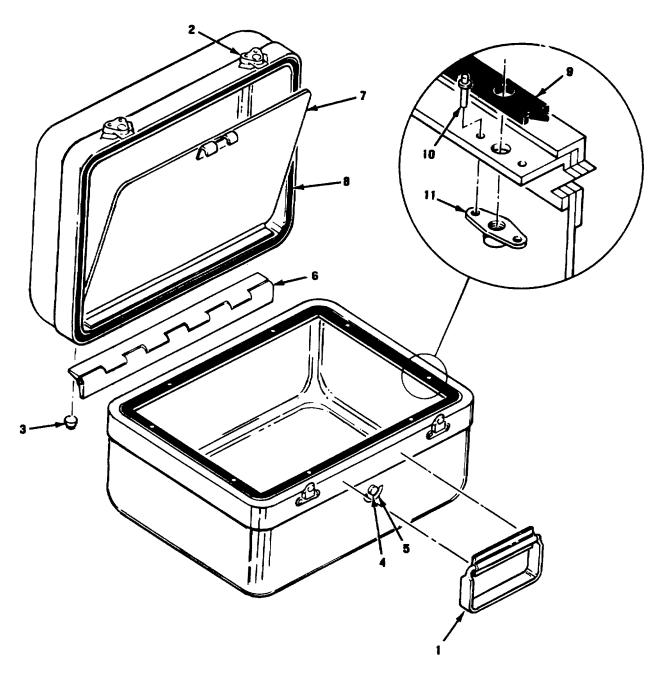


Figure 4. Instrument Case.

(	1) TRATION	(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a)	(b)		NATIONAL			DESCRIPTION		QTY INC
FIG NO.	ITÉM NO.	SMR CODE	STOCK NUMBER	FSCM	PART NUMBER	USABLE ON CODE	U/M	IN UNIT
4		XAFZZ		55820	161221-1	CASE,INSTRUMENT, SEE FIG. 1 FOR NHA	EA	1
4	1	XCDDF		53031	TA50A08G2	.HANDLE ASSY	EA	1
4	2	XCDDA		53031	XTC01P29	LATCH ASSY	EA	2
4	3	XCDDA		53031	TC61B10N1	.BUMPER ASSY	EA	4
4	4	XCDDA		53031	TC78V01-1	.VALVE ASSY	EA	1
4	5	XCDDA		53031	TA50A06-04	LABLE, VALVE	EA	1
4	6	XCDDA		53031	TA50A05-011	.HINGE, ASSY	EA	1
4	7	XCDDA		53031	TC76T25-05	.TRAY ASSY	EA	1
4	8	XCDDA		53031	TC20R04	.SEAL	IN	45
4	9	XCDDA		53031	TC10G05N4	.GASKET	EA	1
4	10	XCDDA		96906	MS20605AD3C4	RIVET	EA	20
4	11	XCDDA		53031	TC10H07	NUTPLATE	EA	10

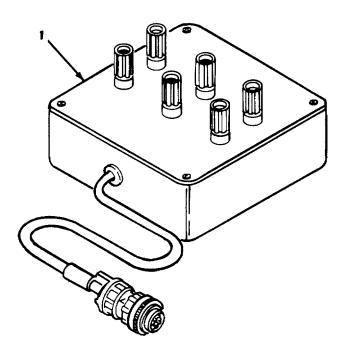


Figure 5. Special Tool.

(	1) TRATION	(2)	(3)	(4)	(5)	(6)	(7)	(8)
			NATIONAL			DESCRIPTION		QTY INC
(a) FIG	(b)	SMR	STOCK	F00M	PART	WARD FOU CORF		IN
NO.	NO.	CODE	NUMBER	FSCM	NUMBER	USABLE ON CODE	U/M	UNIT
						SECTION III SPECIAL TOOLS LIST		
						GROUP 02 SPECIAL TOOLS		
5	1	PEFZZ	4920-01-135-5985	55820	ST93480	SIGNAL CONVERTER	EA	1

	NATIONAL	STOCK NUMBE	ER AND PART NUMBER	RINDEX	<b>SECTION IV</b>
	FIGURE	ITEM		FIGURE	ITEM
STOCK NUMBER	NO.	NO.	STOCK NUMBER	NO.	NO.
5935-00-003-2502	1	4	5935-00-828-0696	2	6
5940-00-044-1583	2	11	5940-00-842-6483	2	10
5305-00-054-5649	2	3	5930-00-902-2395	2	12
5305-00-054-6650	3	2	5310-02-934-9748	2	5
5940-00-082-4861	3	15	5305-00-944-8272	1	16
5905-00-104-8362	3	12	5310-00-982-6813	3	10
6240-00-155-7836	2	20	8040-01-005-0317	1	
5935-00-199-7618	1	12	5935-01-013-4594	1	3
5935-00-199-1619	1	13	5935-01-013-4594	1	8
5975-00-482-3954	1		6210-01-018-2015	2	17
5975-00-482-3954	1		5305-01-029-0713	1	23
5975-00-482-3954	1		5935-01-029-4013	3	6
5305-00-482-6512	1	19	5935-01-035-6165	3	4
5935-00-518-3566	1	15	5360-01-046-9674	3	5
5935-00-518-3576	1	2	5935-01-068-0925	1	9
5935-00-518-3576	1	7	5961-01-075-7553	2	18
5935-00-528-9302	1	5	5961-01-078-9596	2	19
5935-00-521-9302	1	10	5340-01-112-2793	1	21
5310-00-559-0070	2	4	4920-01-138-6967	1	1
5935-00-622-2723	1	14	4920-01-138-6968	1	6
6210-00-683-0806	2	21	4920-01-138-6969	1	22
5305-00-719-5064	3	8	4920-01-139-1125	2	2
5935-00-759-8591	2	7	4920-01-140-9964	1	11
5935-00-759-8591	2	8	6680-01-143-9078	2	1
5935-00-759-8591	2	9			

FSCM   PART NUMBER   NO.   NO.   FSCM   PART NUMBER   NO.   NO.   NO.   T2914   A 8870-1-327   2   2   81349   M16878   1			FIGURE	ITEM			FIGURE	ITEM
88245         815300-3/8-11         3         14         81349         M16878         1           95146         C-10BLK         2         14         81349         M16878         1           95146         C-10RED         2         14         81349         M16878         1           95146         C-10KED         2         16         81349         M16878         1           99195         K/ALKTW-20F-KK         1         81349         M83723-82R-1624N         1         9           91915         K/ALKTW-20F-KK         1         81349         M83723-82R-1624N         1         3         1         1         1         1         3 </th <th>FSCM</th> <th>PART NUMBER</th> <th>NO.</th> <th>NO.</th> <th>FSCM</th> <th>PART NUMBER</th> <th>NO.</th> <th>NO.</th>	FSCM	PART NUMBER	NO.	NO.	FSCM	PART NUMBER	NO.	NO.
95146							1	
95146 C-10RN 2 14 81349 M16878 1 95146 C-10RED 2 13 81349 M16878 1 95146 C-10YEL 2 16 81349 M16878 1 95146 C-10YEL 2 16 81349 M16878 1 95195 K/ALKTW-20F-KK 1 81349 M83723-82R-1624N 1 9 99195 K/ALKTW-20F-KK 1 81349 M83723-82R-1624N 1 12 81349 MIL-631 TYPE F 1 81349 M83723-82R1415N 1 12 81349 MIL-631 TYPE F 1 81349 M3723-82R1415N 1 13 81349 MIL-631 TYPE F 1 82025 NAS178608-12 1 4 81349 MIL-631 TYPE F 1 82025 NAS178608-12 1 21 96906 MS21044C06 3 1 10 81349 RCR07G132JS 3 12 96906 MS27039C0806 1 166 77342 R10-E1-X8-V350 3 1 96906 MS221211 1 23 81349 R210-E1-X8-V350 3 15 96906 MS3212-23 1 19 53031 TA50A08G2 4 1 96906 MS3388-5-9E 1 1 83330 1514-103 2 11 96906 MS3388-5-9E 1 1 83330 1514-103 2 11 96906 MS3471-16N 1 14 55820 160240-400 1 22 96906 MS3417-16N 1 1 10 55820 161221-1 2 22 96906 MS3417-16N 1 1 10 55820 161221-1 3 13 96906 MS3417-18N 1 1 8 55820 161222-10 3 13 96906 MS3471-18N 1 1 8 55820 161222-10 3 13 96906 MS3471-18N 1 1 8 55820 161222-10 3 13 96906 MS34701-18-32P 2 8 55820 161222-10 3 13 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 24 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 25 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 7 7 55820 161223-100 1 1 25 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 2 9 55820 161223-100 1 1 1 96906 MS34701-18-32P 3 6 55820 161223-100 1 1 1 96906 MS34701-18-32P 3 6 55820 161223-100 1 1 1 96906 MS34701-18-32P 3 7 7 7742 2 77512 3 6 6 96906 MS34701-18-32P 3 7 7 77542 2 77512 3 3 6 96906 MS34701-18-32P 3 7 7 77542 2 77512 3 3 6 96906 MS34701-18-32P 3 7 7 77512 2 77512 3 3 6 96906 MS34701-18-32P 3 7 7 77512 2 77512 3 3 6 96906 MS34701-18-32P 3 7 7 77512							1	
95146 C-10RED 2 13 81349 M16878 1 95146 C-10YEL 2 16 81349 M16878 1 95146 C-10YEL 2 16 81349 M16878 1 95195 K/ALKTW-20F-KK 1 81349 M83723-82R-1624N 1 9 99195 K/ALKTW-20F-KK 1 81349 M83723-83R1415N 1 12 81349 MLI-631.TYPE F 1 1 81349 M83723-83R1415N 1 13 81349 MLI-631.TYPE F 1 1 80205 NAS1786C08-12 1 21 96906 MS21044C06 3 10 81349 K701786C08-12 1 21 96906 MS2203C0806 1 1 16 77342 R1CE1-X8-V350 3 12 96906 MS2203C0806 1 1 16 77342 R1CE1-X8-V350 3 1 1 96906 MS3212-11 1 23 81349 SE12XC04 3 15 96906 MS3212-23 1 1 19 53031 TA50A08G2 4 1 1 96906 MS3368-5-BE 1 83330 1514-102 2 10 96906 MS3368-5-BE 1 83330 1514-103 2 11 96906 MS3368-5-BE 1 83330 1514-103 2 11 96906 MS3417-14N 1 14 55820 16129-1 2 2 96906 MS3417-16N 1 1 5 55820 16122-1 3 13 96906 MS3417-16N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-1 3 13 96906 MS3417-18N 1 1 8 55820 16122-100 1 1 18 96906 MS3470-18-32P 2 9 55820 16122-1 3 13 96906 MS3470-18-32P 2 9 55820 16122-100 1 1 1 96906 MS3470-18-32P 2 9 55820 16122-200 1 1 11 96906 MS3470-18-32P 2 9 55820 16122-200 1 1 12 96906 MS3470-18-32S 1 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				-			1	
95166							1	
99195   K/ALKTW-20F-KK   1				-			1	
99195 K/ALKTW-20F-KK				16			1	
B1349   MIL-I-631 TYPE F		-	· ·				1	
81349         MIL-I-631,TYPE F         1         81349         M83723-87R1624N         1         4           81349         MIL-I-631,TYPE F         1         80205         NAS1786C08-12         1         21           96906         MS21044C06         3         10         81349         RCR07G132JS         3         12           96906         MS27039C0806         1         16         77342         R10-E1-X8-V350         3         1           96906         MS27039C0806         1         16         77342         R10-E1-X8-V350         3         1           96906         MS3212-23         1         19         53031         TA50A08G2         4         1           96906         MS3368-5-9E         1         83330         1514-102         2         10           96906         MS3368-5-9E         1         83330         1514-103         2         11           96906         MS3417-16N         1         14         55820         160240-400         1         22           96906         MS3417-16N         1         1         5         5820         161220-10         1         18           96906         MS3417-16N         1         1<		K/ALKTW-20F-KK	•			M83723-83R1415N	1	
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96906 MS21044C06 3 10 81349 RCR07G132JS 3 12 96906 MS25237-327 2 2 20 71984 RTV102 1 96906 MS27039C0806 1 16 77342 R10-E1-X8-V350 3 1 96906 MS27039C0806 1 1 16 77342 R10-E1-X8-V350 3 1 96906 MS3212-11 1 23 81349 SE12XC04 3 15 96906 MS3212-23 1 19 53031 TA50A08G2 4 1 96906 MS3368-5-9E 1 83330 1514-102 2 10 96906 MS3368-5-9E 1 83330 1514-103 2 11 96906 MS3368-5-9E 1 55820 160240-400 1 22 96906 MS3368-5-9E 1 55820 16129-1 2 22 96906 MS3417-16N 1 15 55820 16122-100 1 18 96906 MS3417-16N 1 1 10 55820 16122-1 1 2 26 96906 MS3417-18N 1 1 8 55820 16122-1 1 1 26 96906 MS3417-18N 1 8 55820 16122-1 1 2 26 96906 MS3470-18-32P 2 7 55820 16122-100 3 96906 MS3470-18-32P 2 9 55820 16122-200 1 1 1 96906 MS3470-18-32P 2 9 55820 16122-200 1 1 1 96906 MS3470-18-32P 2 9 55820 16122-200 1 1 1 96906 MS3470-18-32P 1 1 15 55820 16122-200 1 1 1 96906 MS3470-18-32P 2 1 8 55820 16122-200 1 1 1 96906 MS3470-18-32P 2 2 77 55820 16122-200 1 1 1 96906 MS3470-18-32P 2 2 8 55820 16122-200 1 1 1 96906 MS3470-18-32S 2 2 6 55820 16122-200 1 1 1 96906 MS3470-18-32S 2 2 6 55820 16122-200 1 1 1 96906 MS3470-18-32S 1 1 2 77342 20C266 3 5 5 96906 MS3470-18-32S 1 1 7 7 77342 27E211 3 4 4 96906 MS3533-154 3 3 9 75915 3A63AMP 3 7 96906 MS3533-154 3 3 9 75915 3A63AMP 3 7 96906 MS3533-154 3 3 9 75915 3A63AMP 3 7 96906 MS3533-154 3 3 9 75915 3A63AMP 3 7 96906 MS3533-155 1 1 17 7 75915 359-0201-001 2 18 96906 MS3533-154 2 5 72619 559-0201-001 2 18 96906 MS3533-154 2 5 72619 559-0201-001 2 19 96906 MS51957-15 2 3 72619 559-0201-001 2 19 96906 MS51957-15 2 3 72619 559-0201-001 2 19 96906 MS51957-15 2 3 3 72619 559-0201-001 2 19	81349	MIL-I-631.TYPE F	1		81349	M83723-87R1624N	1	
96906         MS25237-327         2         20         71984         RTV102         1           96906         MS270390806         1         16         77342         R10-E1-X8-V350         3         1           96906         MS3212-11         1         23         81349         SE12XC04         3         15           96906         MS3268-59E         1         19         53031         TA50A08G2         4         1           96906         MS3368-59E         1         83330         1514-102         2         10           96906         MS3368-59E         1         83330         1514-103         2         11           96906         MS3471-14N         1         14         55820         160240-400         1         22           96906         MS3417-16N         1         5         55820         161220-100         1         18           96906         MS3417-16N         1         10         55820         161221-1         1         26           96906         MS3417-18N         1         3         55820         161221-1         1         26           96906         MS3470L18-32P         2         7         55820	81349	MIL-I-631,TYPE F	1		80205	NAS1786C08-12	1	
96906         MS27039C0806         1         16         77342         R10-E1-X8-V350         3         1           96906         MS3212-11         1         23         81349         SE12XC04         3         15           96906         MS3212-23         1         19         53031         TA50A0862         4         1           96906         MS3368-5-9E         1         83330         1514-102         2         10           96906         MS3368-5-9E         1         83330         1514-103         2         11           96906         MS3368-5-9E         1         55820         160240-400         1         22           96906         MS3417-14N         1         14         55820         161219-1         2         22           96906         MS3417-16N         1         5         55820         161220-100         1         18           96906         MS3417-18N         1         3         55820         161221-1         1         26           96906         MS347018-32P         2         7         55820         161223-100         1         24           96906         MS347018-32P         2         8         55820 <td>96906</td> <td>MS21044C06</td> <td>3</td> <td>10</td> <td>81349</td> <td>RCR07G132JS</td> <td>3</td> <td>12</td>	96906	MS21044C06	3	10	81349	RCR07G132JS	3	12
96906         MS3212-11         1         23         81349         SE12XC04         3         15           96906         MS3212-23         1         19         53031         TA50A08G2         4         1           96906         MS3368-59E         1         83330         1514-102         2         10           96906         MS3368-59E         1         55820         160240-400         1         22           96906         MS3417-14N         1         14         55820         160240-400         1         22           96906         MS3417-16N         1         5         55820         161219-1         2         22           96906         MS3417-16N         1         1         5         55820         161221-1         1         26           96906         MS3417-18N         1         3         55820         161221-1         1         26           96906         MS3470L18-32P         2         7         55820         161223-100         1         24           96906         MS3470L18-32P         2         7         55820         161223-100         1         6           96906         MS3470L18-32P         2	96906	MS25237-327	2	20	71984	RTV102	1	
96906         MS3212-23         1         19         53031         TA50A08G2         4         1           96906         MS3368-5-9E         1         83330         1514-102         2         10           96906         MS3368-5-9E         1         55820         160240-400         1         22           96906         MS3417-14N         1         14         55820         16121-1         2         22           96906         MS3417-16N         1         1         55820         16122-100         1         18           96906         MS3417-18N         1         1         0         55820         16122-1         1         26           96906         MS3417-18N         1         3         55820         16122-1         3         13           96906         MS3470-18-32P         2         7         55820         16122-1         3         13           96906         MS3470-18-32P         2         7         55820         16122-100         1         24           96906         MS3470-18-32P         2         8         55820         16122-100         1         6           96906         MS3470-18-32P         2         <	96906	MS27039C0806	1	16	77342	R10-E1-X8-V350	3	1
96906         MS3368-5-9E         1         83330         1514-102         2         10           96906         MS3368-5-9E         1         83330         1514-103         2         11           96906         MS3368-5-9E         1         55820         160240-400         1         22           96906         MS3417-14N         1         14         55820         161219-1         2         22           96906         MS3417-16N         1         1         5         55820         161220-100         1         18           96906         MS3417-16N         1         10         55820         161221-1         1         26           96906         MS3417-18N         1         3         55820         161221-1         1         26           96906         MS3470L18-32P         2         7         55820         161223-100         3         3           96906         MS3470L18-32P         2         8         55820         161223-100         3         3           96906         MS3470L18-32P         2         8         55820         161223-100         1         1         1         1         1         1         1         1 <td>96906</td> <td>MS3212-11</td> <td>1</td> <td>23</td> <td>81349</td> <td>SE12XC04</td> <td>3</td> <td>15</td>	96906	MS3212-11	1	23	81349	SE12XC04	3	15
96906         MS3368-5-9E         1         83330         1514-103         2         11           96906         MS3368-5-9E         1         55820         160240-400         1         22           96906         MS3417-14N         1         14         55820         161219-1         2         22           96906         MS3417-16N         1         15         55820         161221-1         1         26           96906         MS3417-18N         1         1         3         55820         161221-1         1         26           96906         MS3417-18N         1         3         55820         161223-100         1         24           96906         MS3470L18-32P         2         7         55820         161223-100         1         24           96906         MS3470L18-32P         2         7         55820         161223-100         1         6           96906         MS3470L18-32P         2         8         55820         161227-200         1         6           96906         MS3470L18-32P         2         9         55820         161229-200         1         1         1         25           96906	96906	MS3212-23	1	19	53031	TA50A08G2	4	1
96906         MS3368-5-9E         1         55820         160240-400         1         22           96906         MS3417-14N         1         14         55820         161219-1         2         22           96906         MS3417-16N         1         5         55820         161220-100         1         18           96906         MS3417-16N         1         10         55820         161221-1         1         26           96906         MS3417-18N         1         3         55820         161222-1         3         13           96906         MS3470L18-32P         2         7         55820         161223-100         1         24           96906         MS3470L18-32P         2         7         55820         161223-100         3	96906	MS3368-5-9E	1		83330	1514-102	2	10
96906         MS3417-14N         1         14         55820         161219-1         2         22           96906         MS3417-16N         1         5         55820         161220-100         1         18           96906         MS3417-16N         1         10         55820         161221-1         1         26           96906         MS3417-18N         1         3         55820         161222-1         3         13           96906         MS3470L18-32P         2         7         55820         161223-100         3           96906         MS3470L18-32P         2         8         55820         161227-200         1         6           96906         MS3470L18-32P         2         9         55820         161227-200         1         1         6           96906         MS3470L18-32S         2         6         55820         161228-200         1         1         1         96906         MS3470L18-32S         1         1         1         2         96906         MS3470L18-32S         1         1         1         2         77342         20C266         3         5         96906         MS3470L18-32S         1         7 <t< td=""><td>96906</td><td>MS3368-5-9E</td><td>1</td><td></td><td>83330</td><td>1514-103</td><td>2</td><td>11</td></t<>	96906	MS3368-5-9E	1		83330	1514-103	2	11
96906         MS3417-16N         1         5         55820         161220-100         1         18           96906         MS3417-16N         1         10         55820         161221-1         1         26           96906         MS3417-18N         1         3         55820         161222-1         3         13           96906         MS3417-18N         1         8         55820         161223-100         1         24           96906         MS3470L18-32P         2         7         55820         161223-100         3           96906         MS3470L18-32P         2         8         55820         161223-100         3           96906         MS3470L18-32P         2         9         55820         161227-200         1         6           96906         MS3470L18-32P         2         9         55820         161229-200         1         11           96906         MS3470L18-32P         1         1         5         55820         162129-200         1         11           96906         MS3470L18-32S         1         1         7         77342         20C266         3         5           96906         MS3470L18-32S	96906	MS3368-5-9E	1		55820	160240-400	1	22
96906         MS3417-16N         1         10         55820         161221-1         1         26           96906         MS3417-18N         1         3         55820         161222-1         3         13           96906         MS3417-18N         1         8         55820         161223-100         1         24           96906         MS3470L18-32P         2         7         55820         161223-100         3	96906	MS3417-14N	1	14	55820	161219-1	2	22
96906         MS3417-18N         1         3         55820         161222-1         3         13           96906         MS3417-18N         1         8         55820         161223-100         1         24           96906         MS3470L18-32P         2         7         55820         161223-100         3	96906	MS3417-16N	1	5	55820	161220-100	1	18
96906         MS3417-18N         1         8         55820         161223-100         1         24           96906         MS3470L18-32P         2         7         55820         161223-100         3           96906         MS3470L18-32P         2         8         55820         161227-200         1         6           96906         MS3470L18-32P         2         9         55820         161228-200         1         1           96906         MS3470L18-32S         2         6         55820         161229-200         1         11           96906         MS3470L18-32S         1         1         2         77342         20C266         3         5           96906         MS3470L18-32S         1         2         77342         20C266         3         5           96906         MS3470L18-32S         1         7         77342         27E152         3         6           96906         MS35333-154         3         3         3         77342         27E211         3         4           96906         MS35333-154         3         9         75915         3AG3AMP         3         7           96906         MS353	96906	MS3417-16N	1	10	55820	161221-1	1	26
96906         MS3470L18-32P         2         7         55820         161223-100         3           96906         MS3470L18-32P         2         8         55820         161227-200         1         6           96906         MS3470L18-32P         2         9         55820         161228-200         1         1           96906         MS3470L18-32S         2         6         55820         161229-200         1         11           96906         MS3470L18-32P         1         15         55820         162197-1         1         25           96906         MS3470L18-32S         1         2         77342         20C266         3         5           96906         MS3470L18-32S         1         7         77342         27E152         3         6           96906         MS3470L18-32S         1         7         77342         27E152         3         6           96906         MS35333-154         3         3         77342         27E211         3         4           96906         MS35333-154         3         9         75915         3AG3AMP         3         7           96906         MS35333-38         2	96906	MS3417-18N	1	3	55820	161222-1	3	13
96906 MS3470L18-32P 2 8 55820 161227-200 1 6 96906 MS3470L18-32P 2 9 55820 161228-200 1 1 1 96906 MS3470L18-32S 2 6 55820 161229-200 1 1 11 96906 MS3470L18-32P 1 15 55820 162197-1 1 25 96906 MS3470L18-32P 1 15 55820 162197-1 1 25 96906 MS3470L18-32S 1 2 77342 20C266 3 5 5 96906 MS3470L18-32S 1 7 77342 27E152 3 6 96906 MS35333-154 3 3 77342 27E211 3 4 96906 MS35333-154 3 9 75915 3AG3AMP 3 7 96906 MS35333-155 1 177 75915 356007 3 11 96906 MS35333-38 2 4 72619 559-0101-001 2 17 96506 MS35649-244 2 5 72619 559-0101-001 2 18 96906 MS51957-26 3 2 55820 906781C1 2 1 96906 MS51957-26 3 2 55820 906781C1 2 2 9	96906	MS3417-18N	1	8	55820	161223-100	1	24
96906         MS3470L18-32P         2         9         55820         161228-200         1         1           96906         MS3470L18-32S         2         6         55820         161229-200         1         11           96906         MS3470L18-32P         1         15         55820         162197-1         1         25           96906         MS3470L18-32S         1         2         77342         20C266         3         5           96906         MS35333-154         3         3         77342         27E211         3         4           96906         MS35333-154         3         9         75915         3AG3AMP         3         7           96906         MS35333-155         1         17         75915         356007         3         11           96906         MS35333-38         2         4         72619         559-0101-001         2         17           96506         MS35649-244         2         5         72619         559-0201-001         2         18           96906         MS51957-15         2         3         72619         559-0301-001         2         18           96906         MS51959-30	96906	MS3470L18-32P	2	7	55820	161223-100	3	
96906         MS3470L18-32S         2         6         55820         161229-200         1         11           96906         MS3470L18-32P         1         15         55820         162197-1         1         25           96906         MS3470L18-32S         1         2         77342         20C266         3         5           96906         MS3470L18-32S         1         7         77342         27E152         3         6           96906         MS35333-154         3         3         77342         27E211         3         4           96906         MS35333-154         3         9         75915         3AG3AMP         3         7           96906         MS35333-155         1         17         75915         356007         3         11           96906         MS35333-38         2         4         72619         559-0101-001         2         17           96506         MS35649-244         2         5         72619         559-0201-001         2         18           96906         MS51957-15         2         3         72619         559-0301-001         2         19           96906         MS51959-30	96906	MS3470L18-32P	2	8	55820	161227-200	1	6
96906         MS3470L18-32P         1         15         55820         162197-1         1         25           96906         MS3470L18-32S         1         2         77342         20C266         3         5           96906         MS3470L18-32S         1         7         77342         27E152         3         6           96906         MS35333-154         3         3         77342         27E211         3         4           96906         MS35333-154         3         9         75915         3AG3AMP         3         7           96906         MS35333-155         1         17         75915         356007         3         11           96906         MS35333-38         2         4         72619         559-0101-001         2         17           96506         MS35649-244         2         5         72619         559-0201-001         2         18           96906         MS51957-15         2         3         72619         559-0301-001         2         19           96906         MS51959-30         3         8         72619         911623C1         2         2         2	96906	MS3470L18-32P	2	9	55820	161228-200	1	1
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96906         MS3470L18-32S         1         7         77342         27E152         3         6           96906         MS35333-154         3         3         77342         27E211         3         4           96906         MS35333-154         3         9         75915         3AG3AMP         3         7           96906         MS35333-155         1         17         75915         356007         3         11           96906         MS35333-38         2         4         72619         559-0101-001         2         17           96506         MS35649-244         2         5         72619         559-0201-001         2         18           96906         MS51957-15         2         3         72619         559-0301-001         2         19           96906         MS51957-26         3         2         55820         906781C1         2         1           96906         MS51959-30         3         8         72619         911623C1         2         2	96906	MS3470L18-32S	1	2	77342	20C266	3	5
96906         MS35333-154         3         9         75915         3AG3AMP         3         7           96906         MS35333-155         1         17         75915         356007         3         11           96906         MS35333-38         2         4         72619         559-0101-001         2         17           96506         MS35649-244         2         5         72619         559-0201-001         2         18           96906         MS51957-15         2         3         72619         559-0301-001         2         19           96906         MS51957-26         3         2         55820         906781C1         2         1           96906         MS51959-30         3         8         72619         911623C1         2         2	96906	MS3470L18-32S	1	7	77342	27E152	3	
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96906         MS35333-38         2         4         72619         559-0101-001         2         17           96506         MS35649-244         2         5         72619         559-0201-001         2         18           96906         MS51957-15         2         3         72619         559-0301-001         2         19           96906         MS51957-26         3         2         55820         906781C1         2         1           96906         MS51959-30         3         8         72619         911623C1         2         2	96906	MS35333-154	3	9	75915	3AG3AMP	3	7
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96906     MS51957-15     2     3     72619     559-0301-001     2     19       96906     MS51957-26     3     2     55820     906781C1     2     1       96906     MS51959-30     3     8     72619     911623C1     2     2	96506	MS35649-244		5	72619	559-0201-001	2	18
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96906 MS51959-30 3 8 72619 911623C1 2 2					55820	906781C1		
	96906	MS75028-23		12				

# **SECTION IV**

# SUPPLEMENTAL INDEX

# NATIONAL STOCK NUMBER AND PART NUMBER

STOCK NUI	MBER	FIGURE NO.	ITEM NO.	STOCK NUMBER		FIGURE NO.	ITEM NO.
5340-01-088-0524		3	14	4920-01-135-5985		5	1
FSCM	PART NUMBER	FIGURE NO.	ITEM NO.	FSCM	PART NUMBER	FIGURE NO.	ITEM NO.
96906	MS20605AD3C4	4	10	53031	TC20R04	4	8
96906	MS27183-7	1	20	53031	TC61B10N1	4	3
55820	ST93480	5	1	53031	TC78V01-1	4	4
53031	TA50A05-011	4	6	53031	TC76T25-05	4	7
53031	TA50A06-04	4	5	53031	XTC01P29	4	2
53031	TC10G05N4	4	9	55820	161220-100	2	
53031	TC10H07	4	11	55820	16221-1	4	

By Order of the Secretary of the Army:

Official:

JOHN A. WICKHAM, JR. General, United States Army Chief of Staff

ROBERT M. JOYCE Major General, United States Army The Adjutant General

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	CAREFULLY TEAR IT OUT, FOLD AND DROP IT IN THE MAIL.						SENT
PUBLICATION NUMBER					PUBLICATION D	ATE	PUBLICATION TITLE
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PAGE NO.	PARA- GRAPH	FIGURE NO.	TABLE NO.				ONE ABOUT IT.
PRINTED N	NAME, GRA	DE OR TITL	E AND TELE	PHONE NU	IMBER	SIGN HE	RE

# The Metric System and Equivalents

#### Linear Measure

- 1 centimeter = 10 millimeters = .39 inch
- 1 decimeter = 10 centimeters = 3.94 inches
- 1 meter = 10 decimeters = 39.37 inches
- 1 dekameter = 10 meters = 32.8 feet
- 1 hectometer = 10 dekameters = 328.08 feet
- 1 kilometer = 10 hectometers = 3,280.8 feet

# Weights

- 1 centigram = 10 milligrams = .15 grain
- 1 decigram = 10 centigrams = 1.54 grains
- 1 gram = 10 decigram = .035 ounce
- 1 decagram = 10 grams = .35 ounce
- 1 hectogram = 10 decagrams = 3.52 ounces
- 1 kilogram = 10 hectograms = 2.2 pounds
- 1 quintal = 100 kilograms = 220.46 pounds 1 metric ton = 10 quintals = 1.1 short tons

# Liquid Measure

- 1 centiliter = 10 milliters = .34 fl. ounce
- 1 deciliter = 10 centiliters = 3.38 fl. ounces
- 1 liter = 10 deciliters = 33.81 fl. ounces
- 1 dekaliter = 10 liters = 2.64 gallons
- 1 hectoliter = 10 dekaliters = 26.42 gallons
- 1 kiloliter = 10 hectoliters = 264.18 gallons

# Square Measure

- 1 sq. centimeter = 100 sq. millimeters = .155 sq. inch
- 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches
- 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet
- 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet
- 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres
- 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

# **Cubic Measure**

- 1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch
- 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches
- 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

# **Approximate Conversion Factors**

To change	То	Multiply by	To change	То	Multiply by
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29,573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

# Temperature (Exact)

°F	Fahrenheit	5/9 (after	Celsius	°C
	temperature	subtracting 32)	temperature	

PIN: 054668-000