

**TECHNICAL MANUAL**

**ORGANIZATIONAL, DIRECT SUPPORT AND  
GENERAL SUPPORT MAINTENANCE  
REPAIR PARTS AND SPECIAL TOOLS LIST  
FOR  
RADIO FREQUENCY DISTRIBUTION  
SB-4187/ARW-83(V)**

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**HEADQUARTERS, DEPARTMENT OF THE ARMY**

**DECEMBER 1984**

**ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT  
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LIST  
FOR  
RADIO FRQUENCY DISTRIBUTION SB-4187/ARW-83(V)**

Current as of 1 August 1984

**REPORTING ERRORS AND RECOMMENDING  
IMPROVEMENTS**

You can help improve this manual. If you find any mistakes or if you know of a way to improve the procedures, please let us know. Mail your letter, DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, NJ 07703-5007.

In either case, a reply will be furnished direct to you.

**Table of Contents**

		Page	Illus. Figure
SECTION I.	Introduction.....	1	
	II. Repair Parts List .....	11	
GROUP 00	Radio Frequency Distribution SB-1187tARW-83(V) .....	11	1
SECTION III.	Special Tools List (Not applicable)		
IV.	National Stock Number and Part Number		
	Index .....	13	

**SECTION I  
INTRODUCTION**

**1. Scope**

This manual lists and authorizes spares and repair parts; special tools; special test, measurement, and diagnostic equipment (TMDE); and other special support equipment required for performance of organizational, direct support, and general support maintenance of the SB-418;ARW-8(V). It authorizes the requisitioning, issue, and disposition of spares, repair parts and special tools as indicated by the source, maintenance and recoverability (SMR) codes.

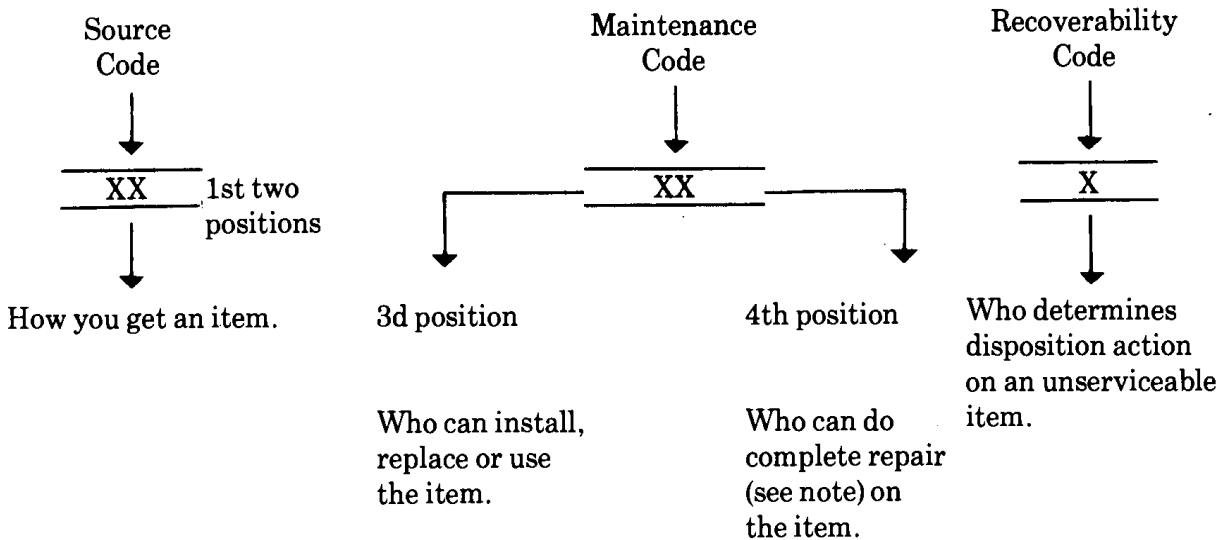
**2. General**

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

- a. *Section II. Repair Parts List.* A list of spares and repair parts authorized by this RPSTI, for use in the performance of maintenance. The list also includes parts which must be removed for replacement of the authorized parts. Parts lists are composed of functional groups in ascending numeric sequence, with the parts in each group listed in ascending item number sequence. Figure numbers are listed directly beneath the group healer.
- b. *Section III. Special Tools List.* Not applicable..
- c. *Section IV. National Stock Number and Part Number Index.* A list. in National item identification number (NIIN) sequence, of all National stock numbered items appearing in the listing, followed by a list in alphameric 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 (Section II and III)**

- A. *Item No. (Column (1)).* Indicates the number used to identify items called out in the illustration.
- B. *SMR Code (Column (2)).* The source, maintenance, and recoverability (SMR)code is a five-position code containing supply requisitioning information, maintenance category authorization criteria, and disposition instruction. as shown in the following breakout:



**NOTE**

Complete repair: Maintenance capacity, capability, and authority to perform all corrective maintenance tasks of the "Repair" function in a use/user environment in order to restore serviceability to a failed item.

(l) *Source code.* The source code tells you how to get an item needed for maintenance, repair, or overhaul of an end item/equipment. Explanations of source codes follows:

Code

Explanation

Stocked items; use the applicable NSN to request, requisition items with these source codes. They are authorized to the category indicated by the code entered in the third position of the SMR code.

PA  
PH  
PC  
PD  
PE  
PF  
PG

\*Note: Items coded PC are subject to deterioration.

KD  
KF  
KE

Explanation

Items with these codes are not to be requested/requisitioned individually. They are part of a kit which is authorized to the maintenance category indicated in the third position of the SMR code. The complete kit must be requisitioned and applied.

MO—Made at  
org/AVUM  
category  
MF—Made at  
DS/AVUM  
category  
MH—Made at  
GS category  
ML—Made at  
Specialized Repair  
Activity (SRA)  
MD—Made at  
Depot

Items with these codes are not to be requested/requisitioned individually. They must be made from bulk material which is identified by the part number in the description and usable on code (UOC) column and listed in the Bulk Material group of the repair parts list. If the item is authorized to you by the third position code of the SMR code, but the source code indicates it is made at a higher category, order the item from the higher category of maintenance.

AO—Assembled by  
org/AVUM  
category  
AF—Assembled by  
DS/AVUM  
category  
AH—Assembled by  
GS category  
AL—Assembled by  
SRA  
AD—Assembled by  
Depot

Explanation

Items with these codes are not to be requested/requisitioned individually. The part that make up the assembled item must be requisitioned or fabricated and assembled at the category of maintenance indicated by the source code. If the disposition code of the SMIR code authorizes you to replace the item, but the source code indicates the item is assembled at a higher category order the item from the higher category of maintenance.

Code	Explanation
XA	-Do not requisition an "XA" coded item. Order its next higher assembly
XB	-If an "XB" item is not available from salvage, order it using the FSCM and part number given.
XC	-Installation drawing diagram, instruction sheet, field service drawing, that is identified by manufacturers part number.
SD	-Item is not stocked. Order an "XD" coded item through normal supply channels using the FSCM and part number given, if no NSN is available.

**NOTE**

**Cannibalization or controlled exchange, when authorized, may be used as a source of supply for items with the above source codes, except for those source coded "XA" or those aircraft support items restricted by requirements of AR 750-1.**

(2) *Maintenance code.* Maintenance codes tell you the category of maintenance authorized to USE and REPAIR support items. The maintenance codes are entered in the third and fourth positions of the SMR code as follows:

(a) The maintenance code entered in the third position tells you the lowest maintenance category authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to one of the following categories of maintenance.

Code	Application/Explanation
C	-Crew or operator maintenance done within organizational or aviation maintenance.
O	-Organizational or aviation unit category can remove, replace, and use the item.
F	-Direct support or aviation intermediate category can remove, replace, and use the item.
H	-General support category can remove, replace, and use the item.
L	-Specialized repair activity can remove, replace, and use the item.
D	-Depot category can remove, replace, and use the item

(b) The maintenance code entered in the fourth position tells whether or not the item is to be repaired and identifies the lowest maintenance category with the capability to do complete repair (i.e., perform all authorized repair functions). This position will contain one of the following maintenance codes.

**NOTE**

**Some limited repair may be done on the item at a lower category of maintenance, if authorized by the Maintenance Allocation Chart (MAC) and SMR codes.**

Code	Application/Explanation
0	-Organizational or aviation unit is the lowest category that can do complete repair of the item.
F	-Direct support or aviation intermediate is the lowest category that can do complete repair of the item.
H	-General support is the lowest category that can do complete repair of the item.

Codes	Application/Explanation
L	-Specialized repair activity (designate the specialized repair activity) is the lowest category that can do complete repair of the item.
D	-Depot is the lowest category that can do complete repair of the item.
Z	-Nonreparable. No repair is authorized.
B	-No repair is authorized. (No parts or special tools are authorized for the maintenance of a "B" coded item). However, the item may be reconditioned by adjusting, lubricating, etc., at the user category.

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

Recoverability Codes	Application/Explanation
Z	-Non-reparable item. When unserviceable, condemn and dispose of the item at the category of maintenance shown in the third position of SMRR Code.
O	-Reparable item. When uneconomically repairable, condemn and (dispose of the item at organizational or aviation unit category.
F	-Reparable item. When uneconomically repairable, condemn and dispose of the item at direct support or aviation intermediate category.
H	-Reparable item. When uneconomically repairable, condemn and dispose of the item at general support category.
D	-Reparable item. When beyond lower category repair capability, return to depot. Condemnation and disposal of item not authorized below depot category.
L	-Reparable item. Condemnation and disposal not authorized below specialized repair activity (SRA).
A	-Item requires special handling or condemnation procedures because of specific reasons (e.g., precious metal content, high dollar value, critical material, or hazardous material). Refer to appropriate manuals/directives for specific instructions.

c. *FSCM (Column (3))*. The Federal Supply Code for Manufacturer (FSCM) is a 5-digit numeric code which is used to identify the manufacturer, distributor, or Government agency, etc., that supplies the item.

d. *Part Number (Column (4))*. Indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which contains the design and characteristics of the item by means of its engineering drawings, specifications, standard, and inspection requirements to identify an item or range of items.

**NOTE**

**When you use a NSN to requisition an item, the item you receive may have a different part number from the part ordered.**

e. *Description and Usable on Code (UOC) (Column (5))*. This column includes the following information.

(1) The Federal item name and, when required, a minimum description to identify the item.

(2) The statement "END OF FIGURE" appears just below the last item description in Column (5) for a given figure in both section II and section III.

f. *Qty (Column (6))*. 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

#### 4. Explanation of Columns (Section IV)

a. *National Stock Number (NSN) Index*

(1) *Stock number column.* This column lists the NSN by National item identification number (NIIN) sequence. The NIIN consists of the last nine digits of the NSN. When using this column to locate an item, ignore the first four digits of the NSN. When requisitioning items use the complete NSN (113 digits).

(2) *Fig column.* This column lists the number of the figure where the item is identified/located. The illustrations are in numerical sequence in sections II and III.

(3) *Item column.* The item number identifies the item associated with the figure listed in the adjacent Fig. column. This item is also identified by the NSN listed on the same line.

b. *Part Number Index.* Part numbers in this index are listed by part number in ascending alphanumeric sequence.

(1) *FSCM column.* This column lists the Federal supply code for manufacturer (FSCM).

(2) *Part number column.* This column indicates the part number assigned to the item.

(3) *Stock number column.* This column lists the National stock number for the associated part number and manufacturer identified in the part number and FSCM columns to the left.

(4) *Fig. column.* This column lists the number of the figure where the item is identified located in sections II and III.

(5) *Item column.* The item number is that number assigned to the item as it appears in the figure referenced in the adjacent figure number column.



**5. Special Information**

a. *Short Form PPL.* This Repair Parts and Special Tools List is a short form RPSTI,. All repair parts will be listed in the next revision.

b. *Associated Publications.* The publication listed below pertains to the SB-4187/ARW-83(V) and its components: TM 11-5865-254-13, Radio Frequency Distribution SB-4187/ARW-83(V) (To be published).

c. *National Stock Numbers.* National stock numbers (NSN's) that are missing from P source coded items have been all applied for and will be added to this TM by future change/revision when they are entered in the Army Master Dada File (AMDF). Until the NSN's are established and published, submit exception requisitions to: Commander, US Army- Communications-Electronics Command and Fort Monmouth, ATTN; DRSEL-MM. Fort Monmouth, NJ 0770-5007 for the part required to support your equipment.

## 6. How to Locate Repair Parts

a. When National stock number or part number is not known.

(1) *First.* Using the table of contents, determine the assembly group or subassembly group to which the item belongs. This is necessary since figures are prepared for assembly groups and subassembly groups, and listings are divided into the same groups.

(2) *Second.* Find the figure covering the assembly group or subassembly group to which the item belongs.

(3) *Third.* Identify the item on the figure and note the item number.

(4) *Fourth.* Refer to the Repair Parts List for the figure to find the part number for the item number noted on the figure.

(5) *Fifth.* Refer to the Part Number Index to find the NSN, if assigned.

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. The NSN index is in National item identification (NIIN) sequence (para 4a(1)). The part numbers in the part number index are listed in ascending alphameric sequence (para 41). Both indexes cross-reference you to the illustration figure and item number of the item you are looking for.

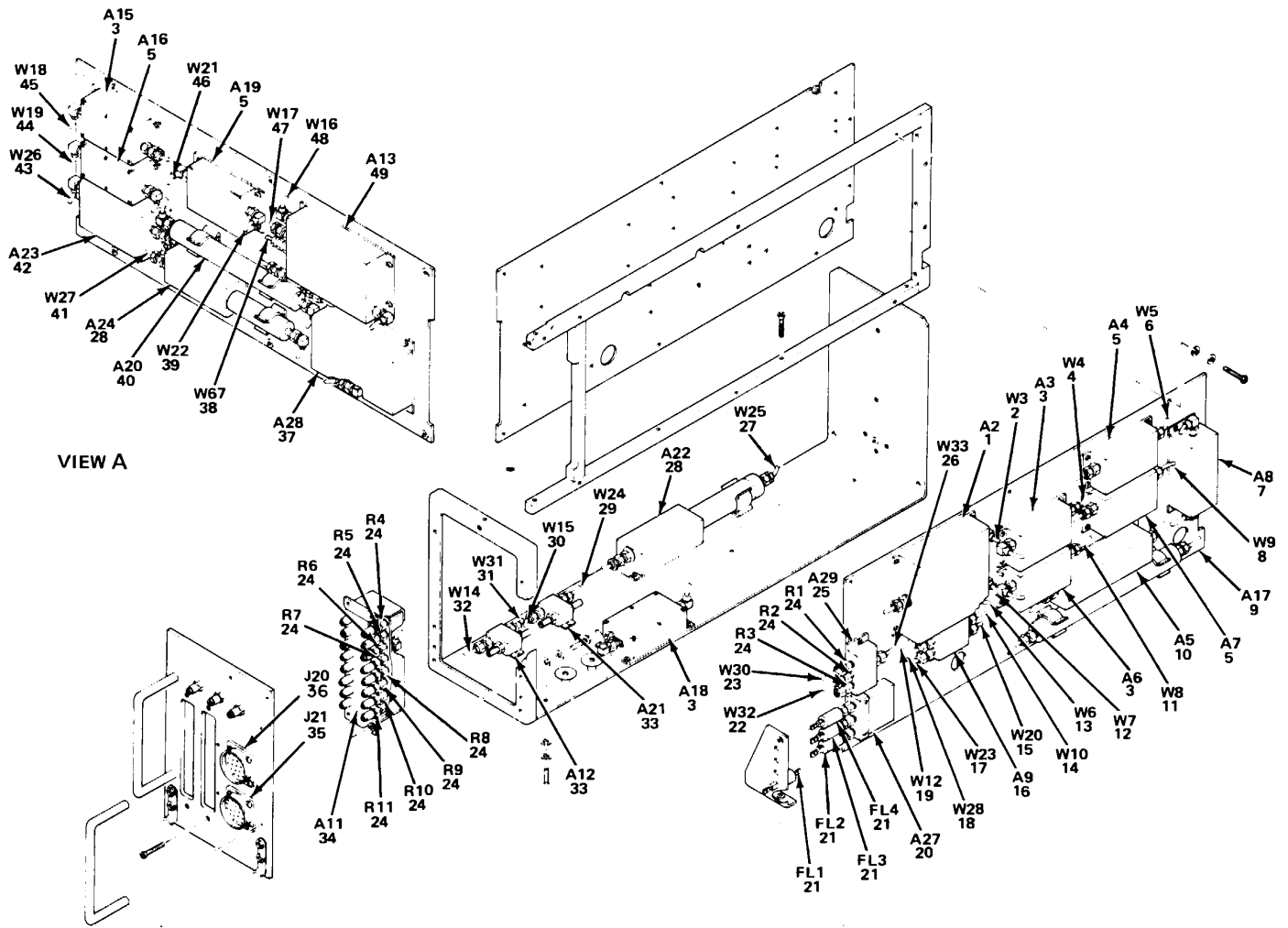
(2) *Second.* After finding the figure and item number, verify that the item is the one you're looking for, then locate the item number in the repair parts list for the figure.

## 7. Abbreviations

Not applicable

(Next printed page is 10)

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EL3PK

Figure 1. Distribution, Radio Frequency SB-4187/ARW-83(V)

## SECTION II

TM 11-5865-254-24P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES (UOC)	(6) QTY
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GROUP 00 DISTRIBUTION, RADIO  
 FREQUENCY  
 SR-4187/AR W-83(V)  
 10-154614-1

FIG. 1

1	PAFZZ	28815	16-133540-1	DIPLEXER.....	1
2	PAFZZ	28815	10-137332-3	CABLE ASSY,RF .....	1
3	PAFZZ	55027	QB-500-SMA	AMPLIFIER,RADIO FRE .....	4
4	PAFZZ	25815	10-137332-4	CABLE ASSY,RF .....	1
5	PAFDD	28815	16-154687-1	AMPLIFTER,VHF .....	4
6	PAFZZ	28815	10-137332-5	CABLE ASSY,RF .....	1
7	PAFZZ	28815	16-133542-1	FILTER .....	1
8	PAFZZ	78815	10-137332-9	CABLE, ASSY, RF.....	1
9	PAFDD	28815	16-154680-1	FILTER,BAND PASS .....	1
10	PAFZZ	28815	16-133541-1	FILTER,LOW PASS .....	1
11	PACZZ	28815	10-137332-8	CABLE ASSY,RF.....	1
12	PAFZZ	28815	10-137332-7	CABLE ASSY,RF.....	1
13	PAFZZ	28815	10-137332-6	CABLE ASSY,RF.....	1
14	PAFZZ	28815	10-154739-1	CABLE ASSY,RF.....	1
15	PAFZZ	28815	10-137332-20	CABLE ASSY, RF.....	1
16	PARZZ	32252	0-HJ-305U/A	DIVIDER.POWER,RADIO .....	1
17	PAPZZ	28815	10-137332-23	CABLE ASSY,RF.....	1
18	PAFZZ	28815	10-137332-28	CABLE ASSY,RF.....	1
19	PAFZZ	28815	10-137332-12	CABLE ASSY,RF.....	1
20	PAFZZ	24022	CS-33S1C-T	SWITCH, RADIO FREQUEN.....	1
21	PAFZZ	72982	9001-100-1017	FILTER,RADIO FREQUE .....	4
22	PAFZZ	28815	10-137332-32	CABLE ASSY,RF.....	1
23	PAFZZ	28815	10-137332-30	CABLE ASSY,RF.....	1
24	PAFZZ	16179	2001-6115-02	DUMMY LOAD,ELECTRIC .....	11
25	PAFZZ	32252	0-HJ-303U/A	COJUPLE,DIRECTIONAL .....	1
26	PAFZZ	28815	10-137332-33	CABLE ASSY,RF.....	1
27	PAFZZ	28815	10-137332-25	CABLE ASSY,RF.....	1
28	PAFDD	25815	16-154688-1	FILTER,BAND PASS .....	2
29	PAFZZ	28815	10-137332-24	CABLE ASSY,RF.....	1
30	PAFZZ	28815	10-137332-15	CABLE ASSY,RF.....	1
31	PAPZZ	28815	10-137332-31	CABLE ASSY,RF.....	1
32	PAFZZ	78815	10-137332-14	CABLE ASSY,RF.....	1
33	PAFZZ	32252	0-D3-20U	COUPLER,DIRECTIONAL.....	2
34	PAFZZ	32252	0-HJ-3016-U	DIVIDER,POWER,RAOIO.....	1
35	PAFZZ	96906	MS3112E16-26P	CONNECTOR,RECEPTACL.....	1
36	PAFZZ	96906	MS3112F16-8P	CONNECTOR,RECEPTACL.....	1
37	PAFDD	78815	10-132532-1	ELECTRONIC COMPONEN.....	1
38	PAFZZ	28815	10-137332-34	CABLE ASSY,RF.....	1
39	PAFZZ	28815	10-137332-22	CABLE ASSY,RF.....	1
40	PAFZZ	25815	16-133545-1	FILTER,BAND PASS.....	1
41	PAFZ7	28815	10-137332-27	CABLE ASSY,RF.....	1
42	PAFOD	55027	QB-7143-SMA	AMPLIFTER,VHF .....	1
43	PAFZZ	28815	10-137332-26	CABLE ASSY,RF.....	1
44	DAFZZ	28815	10-137332-19	CABLE ASSY,RF.....	1

SECTION II					
(1)	(2)	(3)	(4)	(5)	(6)
ITEM	SMR		PART		
NO	CODE	FSCM	NUMBER	DESCRIPTION AND USABLE ON CODES (UOC)	QTY
45	PAFZZ	28815	10-137332-18	CABLE ASSY, RF.....	1
46	PAFZZ	28r15	10-154739-3	CABLE ASSY, RF.....	1
47	PAFZZ	28815	10-137332-17	CABLE ASSY, RF.....	1
48	PAFZZ	28815	10-154739-2	CABLE ASSY, RF.....	1
49	PAFDD	28915	16-154650-1	TRIPLEXER.....	1

END OF FIGURF

## NATIONAL STOCK NUMBER AND PART NUMBER INDEX

STOCK NUMBER	NATIONAL STOCK NUMBER INDEX		STOCK NUMBER	FIG.	ITEM
	FIG.	ITEM			
5915-00-004-5861	1	21			
5935-00-835-3031	1	35			
5935-00-844-4223	1	36			
5915-01-076-2803	1	7			
5915-01-076-2930	1	40			
5915-01-076-3051	1	10			
5895-01-076-3072	1	37			
5895-01-076-3074	1	1			
5985-01-081-9966	1	33			
5985-01-081-9967	1	25			
5985-01-107-5304	1	24			
5921-01-160-4400	1	5			
5821-01-160-4401	1	42			
5821-01-160-4402	1	49			
5915-01-160-4425	1	9			
5915-01-160-4426	1	28			
5821-01-160-4427	1	3			
5821-01-163-9057	1	16			
5821-01-163-9058	1	34			

**NATIONAL STOCK NUMBER AND PART NUMBER INDEX  
PART NUMBER INDEX**

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
24022	CS-33S1C-T		1	20
96906	NS3112E16-26P	5935-00-835-3031	1	35
96906	MS3112E16-8P	5935-00-944-4223	1	36
32252	0-D3-20U	5985-01-081-9966	1	33
32202	0-HJ-3016-U	5821-01-163-9058	1	34
32252	0-CJ-303U/A	5985-01-081-9967	1	25
32252	0-HJ-305U/A	5R21-01-163-9057	1	16
55027	QB-500-SMA	5821-01-160-4427	1	3
55027	Qg-7143-SMA	5821-01-160-4401	1	42
28815	10-132532-1	5895-01-076-3072	1	37
28815	10-137332-12		1	19
28815	10-137332-14		1	32
28815	10-137332-15		1	30
28815	10-137332-17		1	47
28815	10-137332-18		1	45
28815	10-137332-19		1	44
28815	10-137132-20		1	15
28815	10-137332-22		1	39
28S15	10-137332-23		1	17
29815	10-137332-24		1	29
28815	10-137332-25		1	27
28815	10-137332-26		1	43
28815	10-137332-27		1	41
28815	10-137332-28		1	18
28815	10-137332-3		1	2
28815	10-137332-30		1	23
28815	10-137332-31		1	31
28815	10-137332-32		1	22
28815	10-137332-33		1	26
28815	10-137332-34		1	38
28815	10-137332-4		1	4
28815	10-137332-5		1	6
28815	10-137332-6		1	13
28815	10-137332-7		1	12
28815	10-137332-8		1	11
28815	10-137332-9		1	8
28815	10-154739-1		1	14
28815	10-154739-2		1	48
28815	10-154739-3		1	46
28815	16-133540-1	5895-01-076-3074	1	1
28815	16-133541-1	5915-01-076-3051	1	10
28815	16-133542-1	5915-01-076-2803	1	7
28815	16-133545-1	5915-01-076-2910	1	40
28815	16-154650-1	5821-01-160-4402	1	49
28815	16-154f80-1	5015-01-160-4425	1	9
28815	16-154687-1	5821-01-160-4400	1	5
2P815	16-154688-1	5915-01-160-4426	1	28
16179	2001-6115-02	5985-01-107-5304	1	24
72982	9301-130-1017	5915-00-004-5861	1	21



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