

DEPARTMENT OF THE ARMY TECHNICAL MANUAL

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

REPAIR PARTS AND SPECIAL TOOLS LIST

FOR

THERMAL TRANSFER STANDARD, BALLANTINE

MODEL 1600A (NSN 4931-01-139-2710)

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REPORTING OF ERRORS

You can help improve this publication by calling attention to errors and by recommending improvements and stating your reasons for the recommendations. Your letter DA Form 2028, Recommended Changes to Publications, should be mailed directly to Commander, US Army Missile Materiel Readiness Command, ATTN: DRSMI-MFM, Redstone Arsenal, AL 35809. A reply will be furnished direct to you.

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Section I. INTRODUCTION

1. Scope. This manual lists spares and repair parts that are required for maintenance of the Thermal Transfer Standard, Ballantine Model 1600A. It authorizes the requisitioning and issue of spares and repair parts as indicated by the source and maintenance codes.

2. General. This repair parts and special tools list (RPSTL) is divided into the following sections:

a. Section I. Introduction.

b. Section II. Repair Parts List. A list of spares and repair parts authorized 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 numeric sequence, with the parts in each group listed in figure and item number sequence. Bulk materials are listed in National Stock Number (NSN) sequence.

c. Section III. NSN and Part Number Index. A list, in National Item Identification Number (NIIN) sequence, of all NSN's appearing in the listings, followed by a list in alphameric sequence of all part numbers appearing in the listings. NSN's 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 or known usage.
PB -	Item procured and stocked for insurance purpose because essentiality dictates that a minimum quantity be available in the supply system.
PC -	Item procured and stocked and which otherwise would be coded PA except that it is deteriorative in nature.
PD -	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.
PE -	Support equipment procured and stocked for initial issue or outfitting to specified maintenance repair activities.
PF -	Support equipment which will not be stocked but which will be centrally procured on demand.

- PG - Item procured and stocked to provide for sustained support for the life of the equipment. It is applied to an item peculiar to the equipment which, because of probable discontinuance or shutdown of production facilities, would prove uneconomical to reproduce at a later time.
- KD - 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 or repair.
- KF - 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 organizational or intermediate levels of maintenance.
- KB - Item included in both a depot overhaul/repair kit and a maintenance kit.
- MO - Item to be manufactured or fabricated at organizational level.
- MF - Item to be manufactured or fabricated at the direct support maintenance level.
- MH - Item to be manufactured or fabricated at the general support maintenance level.
- MD - Item to be manufactured or fabricated at the depot maintenance level.
- AO - Item to be assembled at organizational level.
- AF - Item to be assembled at direct support maintenance level.
- AH - Item to be assembled at general support maintenance level.
- AD - Item to be assembled at depot maintenance level.
- XA - Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.
- XB - Item is not procured or stocked. If not available through salvage, requisition.
- XC - Installation drawing, diagram, instruction sheet, field service drawing, that is identified by manufacturer's part number.
- XD - A support item that is not stocked. When required, item will be procured through normal supply channels.

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 and 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
C -	Crew or operator maintenance performed within organizational maintenance.
O-	Support item is removed, replaced, used at the organizational level.
F -	Support item is removed, replaced, used at the direct support level.
H -	Support item is removed, replaced, used at the general support level.
D -	Support items that are removed, replaced, used at depot, mobile depot, or specialized repair activity only.

(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
O -	The lowest maintenance level capable of complete repair of the support item is the organizational level.
F -	The lowest maintenance level capable of complete repair of the support item is the direct support level.
H -	The lowest maintenance level capable of complete repair of the support item is the general support level.

D -	The lowest maintenance level capable of complete repair of the support item is the depot level.
L -	Repair restricted to (enter applicable designated specialized repair activity), Specialized Repair Activity.
Z -	Nonreparable. No repair is authorized.
B -	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 maintenance of this item.

(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 Codes	Definition
Z -	Nonreparable item. When unserviceable, condemn and dispose at the level indicated in position 3.
O -	Reparable item. When uneconomically repairable, condemn and dispose at organizational level.
F -	Reparable item. When uneconomically repairable, condemn and dispose at the direct support level.

- H - Repairable item. When uneconomically repairable, condemn and dispose at the general support level.
- D - Repairable item. When beyond lower level repair capability, return to depot. Condemnation and disposal not authorized below depot level.
- L - Repairable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.
- 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. National Stock Number (NSN). Indicates the NSN assigned to the item and which will be used for requisitioning.

d. 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.

e. Federal Supply Code for Manufacturer (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.

f. Description. Indicates the Federal item name and, if required, a minimum description to identify the item. The physical security classification of the item is indicated by the parenthetical entry (insert applicable physical security classification abbreviation, e.g., Phy Sec C1 (C) -Confidential, Phy Sec C1 (S) -Secret, Phy Sec C1 (T) -Top Secret). 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 (BOI) appears as the last line in the entry for each special tool, special Test, Measurement, and Diagnostic Equipment (TMDE), and other special support equipment. When density of equipments supported exceeds density spread indicated in the BOI, 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 quantity indicates that no specific quantity is applicable (e.g., shims, spacers, etc).

4. Special Information

a. Repair parts for components of standards sets which can be identified as existing in the supply system will be requisitioned through normal supply channels from the appropriate supply commodity manager.

b. Repair parts for components of standards sets which cannot be identified as to proper supply source will be requisitioned from USAMIRCOM, using routing identifier B64 and furnishing as a minimum, the following as exception data.

(1) Component stock number of the individual end item to be repaired.

(2) Component manufacturer's equipment model number and serial number.

(3) The equipment manufacturer's stock number as listed in the appropriate manual for the desired repair part.

(4) The repair part reference designation, circuit reference, circuit symbol schematic designation, or reference number as listed in the manufacturer's manual.

(5) The technical specification of the repair part as contained in the appropriate manufacturer's manual.

(6) The title and date of the manufacturer's manual from which the information in paragraphs a, (3), (4), and (5) above was taken.

NOTE

Repair parts should not be requisitioned for plug-in boards identified in the plugin board exchange program, except by the depot designated to perform the repair. Repair of calibration set components, with plug-in board assemblies or subassemblies designated as program exchange replacements with a recoverability code of L, will be accomplished by replacing the plug-in board.

c. The plug-in board exchange program functions as follows:

(1) Requisitioning instructions for initial issue plug-in boards will be provided since new instrument boards are included in the program.

(2) As a plug-in board covered by the program fails, a replacement will be requisitioned. Requisitions will be submitted to Commander, US Army Missile Readiness Command, B64, Redstone Arsenal, AL 35809.

(3) Simultaneously with c(2) above, the defective board being replaced will be shipped by certified mail, return receipt requested, to the following address:

Transportation Officer
Anniston Army Depot
M/F Field Service Stock
Anniston, AL 36201

When requisitioning a replacement board, the turn-in document number of the replaced board shall be cited on the requisition.

5. How to Locate Repair Parts

a. When NSN or reference number is unknown:

(1) First. Using the table of contents, determine the assembly (functional group) within which the repair part belongs.

(2) Second. Using the repair parts listing, find the functional group to which the repair part belongs and locate the item by description.

b. When NSN or reference number is known:

(1) First. Using the index of NSN's and reference numbers, find the pertinent NSN or reference number. This index is in ascending NSN crossreferenced to the illustration figure number and item number.

(2) Second. Using the repair parts listing, find the figure and item number, and locate the figure and item number in the repair parts list.

6. Abbreviations. The abbreviations listed below may appear in this RPSTL:

AC-----	alternating current
ACC-----	accordance
ACCUR-----	accuracy
AL-----	aluminum
AMP-----	ampere
ASSY-----	assembly
ASTM-----	American Standard for Testing Materiel
ATTEN-----	attenuation
AWG-----	American Wire Gage
BAN-----	banana
BLK-----	black
BR-----	brass
C-----	centigrade, calibra- tion, cycles per second
CAL-----	calibrate
CAP-----	capacitance
CD-----	code
CER-----	ceramic
COAX-----	coaxial
COMP-----	composition
COND-----	conductor
CONN-----	connector
CONS-----	consisting
CONT-----	continual
COP-----	cooper
COR-----	corrosion
CPS-----	cycles per second

CU-----	cubic
CUR-----	current
CYL-----	cylinder
DB-----	decibel
DBL-----	double
DC-----	direct current
DEG-----	degree
DET-----	detector
DIA-----	diameter
DIM-----	dimension
DIV-----	division
DPDT-----	double pole double throw
DPL-----	deployment
ELEC-----	electrical
EQUIPM-----	equipment
F-----	Fahrenheit
FED-----	Federal
FIN-----	finish
FLG-----	flange
FREQ-----	frequency
FSCM-----	Federal supply code for manu- facturers
FT-----	foot
GC-----	gigacycles
GEN-----	generator
GHZ-----	gigahertz
GPM-----	gallons per minute
GRAD-----	graduation
H-----	high
HD-----	head
HYDR-----	hydraulic
HZ-----	hertz
ID-----	inside diameter
IN-----	inch
INCL-----	inclusive
K-----	thousand (prefix)
KC-----	kilocycles
KG-----	kilograms
KHZ-----	kilohertz
KMHZ-----	thousand megahertz
KV-----	kilovolts
LAB-----	laboratory
LB-----	pounds
LG-----	length
LT-----	light

M-----	thousand	RPM-----	revolutions per
MA-----	milliampere		minute
MAX-----	maximum	S-----	single
MC-----	megacycles	SEC-----	seconds
MFD-----	millifarads	SECT-----	section
MFR-----	manufacturer	SERR-----	serrated
MG-----	milligrams	SHK-----	shank
MHZ-----	megahertz	SNG-----	single
MIN-----	minimum, minutes	SPEC-----	specification
ML-----	milliliters	SPL-----	special
MM-----	millimeters	SQ-----	square
MOD-----	modified	STD-----	standard
MSEC-----	milliseconds	STGT-----	straight
MTL-----	material	SW-----	switch
MV-----	millivolts	SWR-----	standing wave
MW-----	milliwatts		ratio
NBS-----	National Bureau	SYS-----	system
	Standards	TEL-----	telescopic
NEG-----	negative	TERM-----	terminal
NO-----	number	THD-----	thread
NOM-----	nominal	THERM-----	thermometer
NPT-----	National Pipe	THK-----	thick
	Thread	TSTR-----	tester
NSN-----	National stock	U-----	unit
	number	UF-----	microfarads
OA-----	overall	UHF-----	ultra high frequency
OD-----	outside diameter	V-----	volts
OPER-----	operating	VAC-----	volts alternating
OZ-----	ounce		current, vacuum
PCS-----	pieces	VDC-----	volts direct current
PCT-----	percent	VHF-----	very high frequency
PF-----	picofarads	VSWR-----	voltage standing
PK-----	peck		wave ratio
PLTD-----	plated	W-----	watts, with, width
PN-----	part number	WT-----	weight
POS-----	positive		
PP-----	peak-to-peak		
PSI-----	pounds per square		
	inch		
PWR-----	power		
REF-----	reference		
REP-----	repetition		
REQ-----	required		
REQMTS-----	requirements		
RES-----	resistance		
RF-----	radio frequency		
RG-----	range		
RH-----	right hand		
RL-----	reel		
RM-----	rack mounted		
RMS-----	root mean square		
ROT-----	rotating		

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Section II. REPAIR PARTS LIST

TM 9-4931-479-34P

(1)		(2)	(3)	(4)	(5)	(6)	(7)	(8)
ILLUSTRATION		SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION	U/M	QTY INC IN UNIT
(a) FIG NO.	(b) ITEM NO.							
						GROUP 6661		
						THERMAL TRANSFER STANDARD		
						1600A 50423		
						MIS10554-2 18876		
						MAINFRAME ASSEMBLY CONSISTING OF		
1	9	PAHZZ	5910-01-026-3160	07-02543-0A	50423	CAPACITOR, FIXED	EA	2
1	11	PAHZZ	5910-00-577-1138	DD103GMV	71590	CAPACITOR, FIXED	EA	2
1	13	PAHZZ	5910-00-727-3548	CM15CD200J03	81349	CAPACITOR, FIXED	EA	1
1	15	PAHZZ	5910-00-556-9434	TVL1168	56289	CAPACITOR, FIXED	EA	1
1	17	PAHZZ	5910-00-933-4005	0376 4290	72314	CAPACITOR, FIXED CER	EA	2
1	19	PAHZZ	5910-00-826-3379	BR1000-15	14655	CAPACITOR, FIXED	EA	1
1	21	PAHZZ	5910-00-814-7525	19C241	56289	CAPACITOR, FIXED	EA	3
1	23	PAHZZ	5910-00-933-6767	DD30-222	71590	CAPACITOR, FIXED	EA	1
1	25	PAHZZ	5910-00-989-3594	1DTCCV68	56289	CAPACITOR, FIXED	EA	1
1	35	PAHZZ	5945-00-215-8287	2580-1	81541	CHOPPER, ELECTRONIC	EA	1
1	41	PAHZZ	5935-00-702-8856	57-30240	02660	CONNECTOR, PLUG	EA	1
1	43	PAHZZ	5935-00-581-1811	UG932AU	80058	CONNECTOR, PLUG	EA	3
1	45	PAHZZ	5935-00-028-4147	0874-9447	24655	CONNECTOR	EA	1
1	47	PAHZZ	5935-00-826-0458	57-40240	02660	CONNECTOR, RECEPTAL	EA	1
1	49	PAHZZ	5935-00-284-3931	UG931U	80058	CONNECTOR	EA	3
1	51	PAHZZ	5935-00-062-1776	10187815	18876	CONNECTOR	EA	1
1	61	PAHZZ	5935-00-581-4558	8511466	18876	COVER, ELECTRICAL	EA	1
1	63	PAHZZ	5935-00-257-7581	MS25043-14C	96906	COVER, ELECTRICAL	EA	1
1	71	PAHZZ	5915-00-607-8595	17100000A	50423	FILTER, RADIO	EA	1
1	73	PAHZZ	5920-00-849-6564	342004	75915	FUSEHOLDER, EXTRATOR	EA	1
1	77	PAHZZ	5335-01-019-6381	40100270A	50423	KNOB	EA	1
1	79	PAHZZ	5355-01-019-6380	40100150A	50423	KNOB	EA	1
1	87	PAHZZ	6240-00-155-7836	060-019	92739	LAMP, INCANDESCENT	EA	2
1	91	PAHZZ	6210-00-037-9000	41ENG5-2314	95263	LIGHT, INDICATOR	EA	2
1	97	PAHZZ	5940-00-356-2493	9175661-1	18876	POST, BINDING	EA	1
1	99	PAHZZ	5950-00-681-6979	20C51	96256	RECATOR	EA	1
1	103	PAHZZ	5945-00-028-4217	556147-137	28480	RELAY, ARMATURE	EA	1
1	105	PAHZZ	5945-00-489-6847	W104MPCX3	94696	RELAY, REED	EA	5
1	115	PAHZZ	5905-00-121-9877	382-0012-090	13499	RESISTOR, VARIABLE	EA	1
1	117	PAHZZ	5905-00-847-0291	AR100L05	73138	RESISTOR, VARIABLE	EA	1
1	119	PAHZZ	5905-00-147-0268	AR10KL25	73138	RESISTOR, VARIABLE	EA	1
1	121	PAHZZ	5905-00-914-0937	57A5A77-228	10001	RESISTOR, FIXED, WIRE	EA	4

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
1	123	PAHZZ	5930-00-063-6820	7201	09353	SWITCH, TOGGLE.....	EA	1
1	125	PAHZZ	5930-00-009-1378	3917A223AAP21	30552	SWITCH, SLIDE.....	EA	1
1	127	PAHZZ	5930-00-642-9219	8892741	18876	SWITCH, SENSITIVE.....	EA	1
1	129	PAHZZ	5930-00-059-1390	46256LF	82389	SWITCH, SLIDE.....	EA	1
1	133	PAHZZ	5961-00-933-4989	10669617	18876	SEMICONDUCTOR, DEVIC.....	EA	1
1	135	PAHZZ	5961-00-432-0190	10669652	18876	SEMICONDUCTOR.....	EA	1
1	137	PAHZZ	5961-00-054-0046	JAN2N1711	81349	TRANSISTOR.....	EA	1
1	139	PAHZZ	5950-00-213-7123	23V159	96256	TRANSFORMER, POWER,.....	EA	1
1	141	PAHZZ	5961-00-904-7586	JAN2N2323	81349	TRANSISTOR, THYR.....	EA	1
1	143	PAHZZ	5961-00-058-1192	2N4921	80131	TRANSISTOR.....	EA	1
1	145	PAHZZ	5961-00-931-0372	2N3906	80131	TRANSISTOR.....	EA	1
1	147	PAHZZ	5961-00-892-8706	Q0247	06811	TRANSISTOR.....	EA	4
2	3	PAHHH	4931-01-038-5175	89-10115-1	50423	CIRCUIT CARD..... CONSISTING OF	EA	1
2	5	PAHZZ	5910-00-850-9753	CCS102	84171	CAPACITOR, FIXED	EA	2
2	7	PAHZZ	5910-00-835-3590	30D506G015CB4	56289	CAPACITOR, FIXED	EA	1
2	9	PAHZZ	5910-00-878-8511	D1-105M	99515	CAPACITOR, FIXED	EA	2
2	11	PAHZZ	5961-00-432-0190	10669652	18876	SEMICONDUCTOR DEVIC.....	EA	1
2	13	PAHZZ	5961-00-985-9077	2N3391A	80131	TRANSISTOR.....	EA	3
2	15	PAHZZ	5961-00-892-3405	JAN2N1306	81349	TRANSISTOR.....	EA	2
3	3	PAHHH	4931-01-038-5176	89-10119-1	50423	CIRCUIT CARD..... CONSISTING OF	EA	1
3	5	PAHZZ	5905-00-104-8371	RCR07G275JS	81349	RESISTOR, FIXED.....	EA	1
3	7	PAHZZ	5962-00-453-7715	U5B7741312	07263	MICROCIRCUIT, LINEAR	EA	2
3	9	PAHZZ	5910-00-577-1138	DD103GMV	71590	CAPACITOR, FIXED CER.....	EA	1
4	3	PAHHH	4931-01-038-5177	89-10120-1	50423	CIRCUIT CARD..... CONSISTING OF	EA	1
4	5	PAHZZ	5910-00-786-2208	30D506G050DH4	56289	CAPACITOR, FIXED	EA	1
4	7	PAHZZ	5910-00-905-2327	D2-205D	99515	CAPACITOR, FIXED	EA	1
4	9	PAHZZ	5910-00-068-9266	DM15-101J	84171	CAPACITOR, FIXED MIC.....	EA	1
4	11	PAHZZ	5910-00-577-1138	DD103GMV	71590	CAPACITOR, FIXED	EA	2

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
4	13	PAHZZ	5961-00-892-8706	Q0247	06811	TRANSISTOR.....	EA	6
4	15	PAHZZ	5961-00-931-0372	2N3906	80131	TRANSISTOR.....	EA	1
4	17	PAHZZ	5961-00-904-7586	JAN2N2323	81349	TRANSISTOR, THYR.....	EA	1
5	3	PAHHH	4931-01-038-7302	89-10118-1	50423	CIRCUIT CARD..... CONSISTING OF	EA	1
5	5	PAHZZ	5962-00-890-0950	MC889P	04713	MICROCIRCUIT.....	EA	4
5	7	PAHZZ	5961-00-892-8706	Q0247	06811	TRANSISTOR.....	EA	1
6	3	PAHHH	4931-01-038-5178	89-10112-1	50423	CIRCUIT CARD..... CONSISTING OF	EA	2
6	5	PAHZZ	5962-00-420-6546	MC892P	04713	MICROCIRCUIT.....	EA	8
6	7	PAHZZ	5962-01-008-8783	808-0343-6	77327	MICROCIRCUIT.....	EA	4
7	3	PAHHH	4931-01-038-5179	89-10111-1	50423	CIRCUIT CARD..... CONSISTING OF	EA	1
7	5	PAHZZ	5962-00-350-7779	MC888P	04713	MICROCIRCUIT.....	EA	2
7	7	PAHZZ	5962-00-789-3414	MC825P	04713	MICROCIRCUIT.....	EA	1
7	9	PAHZZ	5910-00-864-8379	5GABS10	56289	CAPACITOR, FIXED.....	EA	1
7	11	PAHZZ	5910-00-080-4646	5C023104X0500C5	56289	CAPACITOR, FIXED CER.....	EA	1
7	13	PAHZZ	5961-00-493-5784	2N4870	80131	TRANSISTOR.....	EA	1
7	15	PAHZZ	5961-00-985-9077	2N3391A	80131	TRANSISTOR.....	EA	1
7	17	PAHZZ	5962-00-420-6546	MC892P	04713	MICROCIRCUIT.....	EA	1
7	19	PAHZZ	5961-00-892-8706	Q0247	06811	TRANSISTOR.....	EA	3
7	21	PAHZZ	5961-00-931-0372	2N3906	80131	TRANSISTOR.....	EA	1
8	3	PAHHH	4931-01-038-7303	89-10114-1	50423	CIRCUIT CARD..... CONSISTING OF	EA	2
8	5	PAHZZ	5910-00-964-5240	BR500-25	14655	CAPACITOR, FIXED.....	EA	2
8	7	PAHZZ	5905-00-107-0818	77PR500	73138	RESISTOR, VARIABLE.....	EA	2
8	9	PAHZZ	5961-00-471-4089	40326	49675	TRANSISTOR.....	EA	4
8	11	PAHZZ	5691-00-892-8706	Q0247	06811	TRANSISTOR.....	EA	8

(1) ILLUSTRATION		(2)	(3)	(4)	(5)	(6)	(7)	(8)
(a) FIG NO.	(b) ITEM NO.	SMR CODE	NATIONAL STOCK NUMBER	PART NUMBER	FSCM	DESCRIPTION <i>USABLE ON CODE</i>	U/M	QTY INC IN UNIT
9	3	PAHHH	4931-01-038-5180	89-10113-1	50423	CIRCUIT CARD.....	EA	1
9	5	PAHZZ	5910-00-066-5008	CE102	71590	CAPACITOR, FIXED	EA	1
9	7	PAHZZ	NOT ASSIGNED	JA741HC	07263	MICROCIRCUIT, LINEAR	EA	1
9	9	PAHZZ	5961-00-471-4089	40326	49675	TRANSISTOR.....	EA	2
9	11	PAHZZ	5961-00-892-8706	Q0247	06811	TRANSISTOR.....	EA	2
10	3	PAHHH	4931-01-038-5181	89-10117-1	50423	CIRCUIT CARD..... CONSISTING OF	EA	1
10	5	PAHZZ	5910-00-686-6428	913-3533-00	13499	CAPACITOR, FIXED	EA	1
10	7	PAHZZ	5961-00-432-0190	10669652	18876	SEMICONDUCTOR.....	EA	1
10	9	PAHZZ	5961-00-229-1963	40327	02735	TRANSISTOR.....	EA	2
10	11	PAHZZ	5961-00-931-0372	2N3906	80131	TRANSISTOR.....	EA	1
11	3	PAHHH	4931-01-038-7304	89-10116-1	52423	CIRCUIT CARD..... CONSISTING OF	EA	1
11	5	PAHZZ	5961-00-229-1963	40327	02735	TRANSISTOR.....	EA	2
12	3	PAHHH	4931-01-038-7305	89-10121-1	50423	CIRCUIT CARD..... CONSISTING OF	EA	1
12	7	PAHZZ	5961-00-432-0190	10669652	18876	SEMICONDUCTOR, DEVIC.....	EA	1
12	9	PAHZZ	5961-00-493-5784	2N4870	80131	TRANSISTOR.....	EA	2

SECTION III. NATIONAL STOCK NUMBER AND PART NUMBER INDEX

NATIONAL STOCK NUMBER	FIGURE NO.	ITEM NO.	STOCK NUMBER	FIGURE NO.	ITEM NO.
5930-00-009-1378	1	125	5910-00-786-2208	4	5
5935-00-028-4147	1	45	5962-00-789-3414	7	7
5945-00-028-4217	1	103	5910-00-814-7525	1	21
6210-00-037-9000	1	91	5935-00-826-0458	1	47
5961-00-054-0046	1	137	5910-00-826-3379	1	19
5961-00-058-1192	1	143	5910-00-835-3590	2	7
5930-00-059-1390	1	129	5905-00-847-0291	1	117
5935-00-062-1776	1	51	5920-00-849-6564	1	73
5930-00-063-6820	1	123	5910-00-850-9753	2	5
5910-00-066-5008	9	5	5910-03-864-8379	7	9
5910-00-068-9266	4	9	5910-00-878-8511	2	9
5910-00-080-4646	7	11	5962-00-890-0950	5	5
5905-00-104-8371	3	5	5961-00-892-3405	2	15
5905-00-107-0818	8	7	5961-00-892-8706	1	147
5905-00-121-9877	1	115	5961-00-892-8706	4	13
5905-00-147-0268	1	119	5961-00-892-8706	5	7
6240-00-155-7836	1	87	5961-00-892-8706	7	19
5950-00-213-7123	1	139	5961-00-892-8706	8	11
5945-00-215-8287	1	35	5961-00-892-8706	9	11
5961-00-229-1963	10	9	5961-00-904-7586	1	141
5961-00-229-1963	11	5	5961-00-904-7586	4	17
5935-00-257-7581	1	63	5910-00-905-2327	4	7
5935-00-284-3931	1	49	5905-00-914-0397	1	121
5962-00-350-7779	7	5	5961-00-931-0372	1	145
5940-00-356-2493	1	97	5961-00-931-0372	4	15
5962-00-420-6546	6	5	5961-00-931-0372	7	21
5962-00-420-6546	7	17	5961-00-931-0372	10	11
5961-00-432-0190	1	135	5910-00-933-4005	1	17
5961-00-432-0190	2	11	5961-00-933-4989	1	133
5961-00-432-0190	10	7	5910-00-933-6767	1	23
5961-00-432-0190	12	7	5910-00-964-5240	8	5
5962-00-453-7715	3	7	5961-00-985-9077	2	13
5961-00-471-4089	8	9	5961-00-985-9077	7	15
5961-00-471-4089	9	9	5910-00-989-3594	1	25
5945-00-489-6847	1	105	5962-01-008-8783	6	7
5961-00-493-5784	7	13	5355-01-019-6380	1	79
5961-00-493-5784	12	9	5355-01-019-6381	1	77
5910-00-556-9434	1	15	5910-01-026-3160	1	9
5910-00-577-1138	1	11	4931-01-038-5175	2	3
5910-00-577-1138	3	9	4931-01-038-5176	3	3
5910-00-577-1138	4	11	4931-01-038-5177	4	3
5935-00-581-1811	1	43	4931-01-038-5178	6	3
5935-00-581-4558	1	61	4931-01-038-5179	7	3
5915-00-607-8595	1	71	4931-01-038-5180	9	3
5930-00-642-9219	1	127	4931-01-038-5181	10	3
5950-30-681-6979	1	99	4931-01-038-7302	5	3
5910-00-686-6428	10	5	4931-01-038-7303	8	3
5935-00-702-8856	1	41	4931-01-038-7304	11	3
5910-00-727-3548	1	13	4931-01-038-7305	12	3

Manufacturer's Part Number Cross Referenced to Figure and Item Number

PART NUMBER	FSCM	FIG. NO.	ITEM NO.	PART NUMBER	FSCM	FIG. NO.	ITEM NO.
AR10KL25	73138	1	119	Q0247	06811	5	7
AR100L05	73138	1	117	Q0247	06811	7	19
BR1000-15	14655	1	19	Q0247	06811	8	11
BR500-25	14655	8	5	Q0247	06811	9	11
CCS102	84171	2	5	RCR07G275JS	81349	3	5
CE102	71590	9	5	TVL1168	56289	1	15
CM15CD200J03	81349	1	13	UA741HC	07263	9	7
DD103GMV	71590	1	11	UG931U	80058	1	49
DD103GMV	71590	3	9	UG932AU	80058	1	43
DD103GMV	71590	4	11	U5B7741312	07263	3	7
DD30-222	71590	1	23	W104MPCX3	94696	1	105
DM15-101J	84171	4	9	0376 4290	72314	1	17
D1-105M	99515	2	9	060-019	92739	1	87
D2-205D	99515	4	7	07-02543-0A	50423	1	9
JAN2N1306	81349	2	15	0874-9447	24655	1	45
JAN2N1711	81349	1	137	10TCCV68	56289	1	25
JAN2N2323	81349	1	141	10187815	18876	1	51
JAN2N2323	81349	4	17	10669617	18876	1	133
MC825P	04713	7	7	10669652	18876	1	135
MC888P	04713	7	5	10669652	18876	2	11
MC889P	04713	5	5	10669652	18876	10	7
MC892P	04713	6	5	10669652	18876	12	7
MC892P	04713	7	17	17100000A	50423	1	71
MS25043-14C	96906	1	63	19C241	56289	1	21
Q0247	06811	1	147	2N3391A	80131	2	13
Q0247	06811	4	13	2N3391A	80131	7	15
2N3906	80131	1	145	5GABS10	56289	7	9
2N3906	80131	4	15	556147-137	28480	1	103
2N3906	80131	7	21	57-30240	02660	1	41
2N3906	80131	10	11	57-40240	02660	1	47
2N4870	80131	7	13	57A5A77-228	10001	1	121
2N4870	80131	12	9	7201	09353	1	123
2N4921	80131	1	143	77PR500	73138	8	7
20C51	96256	1	99	808-0343-6	77327	6	7
23V159	96256	1	139	8511466	18876	1	61
2580-1	81541	1	35	8892741	18676	1	127
30D506G015CB4	56289	2	7	89-10111-1	50423	1	3
30D506G050DH4	56289	4	5	89-10112-1	50423	6	3
342004	75915	1	73	89-10113-1	50423	9	3
382-0012-090	13499	1	115	89-10114-1	50423	8	3
3917A223AAP21	30552	1	125	89-10115-1	50423	2	3
40100150A	50423	1	79	89-10116-1	52423	11	3
40100270A	50423	1	77	89-10117-1	50423	10	3
40326	49675	8	9	89-10118-1	50423	5	3
40326	49675	9	9	89-10119-1	50423	3	3
40327	02735	10	9	89-10120-1	50423	4	3
40327	02735	11	5	89-10121-1	50423	12	3
41ENG5-2314	95263	1	91	913-3533-00	13499	10	5
46256LF	82389	1	129	9175661-1	18876	1	97
5C023104X0500C5	56289	7	11				

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