

DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
FOR
TEMPERATURE MEASUREMENT SYSTEM

INSTRULAB TYPE 4100 RTD DT1
NSN 6685-01-084-4319

Current as of

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DIRECT SUPPORT AND GENERAL SUPPORT MAINTENANCE

REPAIRS PARTS AND SPECIAL TOOLS LIST

SECTION I. INTRODUCTION

1. **Scope.** This RPSTL lists and authorizes spares and repair parts required for performance of direct and general support maintenance of the Temperature Measuring System, Instrulab, TYPE 4100 RTD DTI. It authorizes the requisitioning, issue, and disposition of spares and repair parts as indicated by the Source, Maintenance and Recoverability (SMR) codes.

2. **General.** In addition to this section 1, Introduction, this Repair Parts and 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 RPSTL for use in the performance of maintenance. Parts lists are composed of functional groups in ascending numeric sequence. Parts are listed in alphabetical sequence within each figure number.

b. **Section III.** Special Tools List. Not Applicable.

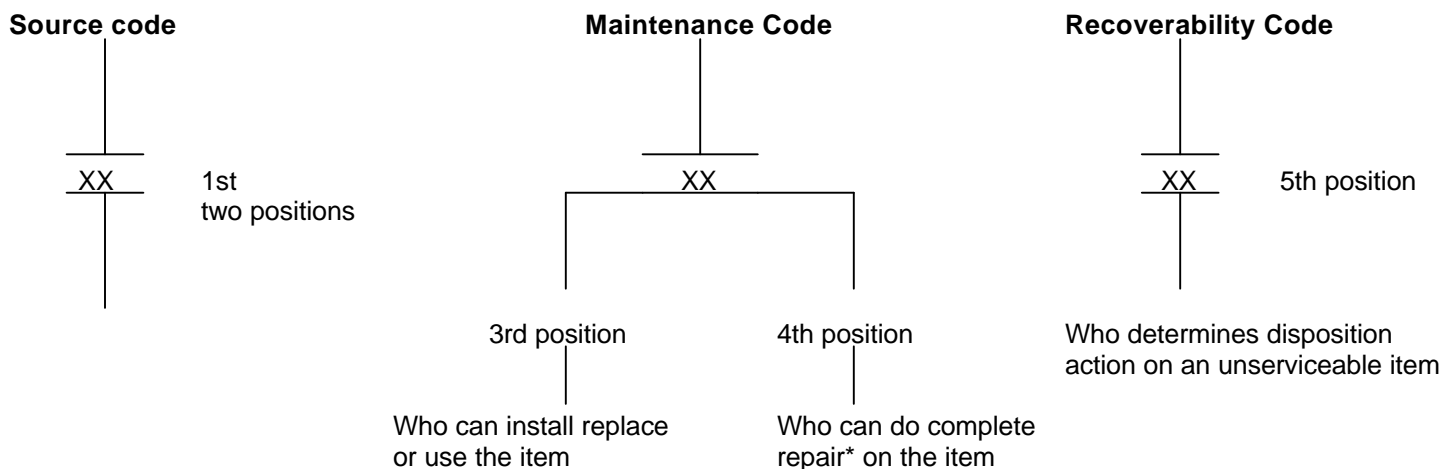
c. **Section IV.** National Stock Number and Part Number Index. A list, in National Item Identification Number (NIIN) sequence, of all National Stock Numbered (NSN) items appearing in the listing, followed by a list in alphanumeric sequence of all part numbers appearing in the listing. NSN's and part numbers are cross-referenced to the figure and item number appearance.

3. Explanation of Columns (Section II)

a. **Item No. (Column (1)).** Indicates the number used to identify each item appearing in the listing.

b. SMR CODE

(Column (2)). The Source, Maintenance, and Recoverability (SMR) code is a 5-position code containing supply/requisitioning information, maintenance category authorization criteria, and disposition instructions as shown in the following breakdown:



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

(1) **Source Code** The source code tells you how you get an item needed for maintenance, repair, or overhaul of an end item/equipment. Source codes are always the first two positions of the SMR code. Explanation of source codes follows:

Code	Explanation
------	-------------

PA -	Stocked items; use the applicable NSN to request/requisition items with this code. This item is authorized to the category indicated by the code entered in the 3d position of the SMR code.
------	--

XD -	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.
------	--

(2) **Maintenance Code** Maintenance codes tell you the level(s) 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 maintenance level authorized to remove, replace, and use an item. The maintenance code entered in the third position will indicate authorization to the following level of maintenance.

Code	Application/Explanation
------	-------------------------

F -	Direct support level can remove, replace, and use the item.
-----	---

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

Code	Application/Explanation
------	-------------------------

F -	Direct support is the lowest level that can do complete repair of the item.
-----	---

Z -	Nonreparable. No repair is authorized.
-----	--

(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 SMR code as follows:

Recoverability Codes	Definition
----------------------	------------

Z -	Nonreparable item. When unserviceable, condemn and dispose of the item at the level of maintenance shown in the third position of the SMR code.
-----	--

F -	Reparable item. When uneconomically repairable, condemn and dispose of the item at the direct support level.
-----	---

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 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 you use an NSN to requisition an item, the item you receive may have a different part number from the part ordered, but go ahead and use or furnish it as the replacement part.

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 usable on code, when applicable (see paragraph 5, Special Information).

f. **QTY** (Column (6)). The QTY (quantity per figure column) indicates the quantity of the item used in the parts list 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

_____ NSN
(i. e., 5305-01-674-1467). When using this column to locate an item, ignore the first 4 digits
_____ NIIN.
of the NSN. However, the complete NSN should be used when ordering items by stock number.

(2) **FIG. column**. Indicates the figure number used to identify each item appearing in the listing. The figures are in numerical order in Section II.

(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 (i. e.) , vertical arrangement of letter and number combination which places the first letter or digit of each group in order A through Z, followed by the numbers 0 through 9 and each following letter or digit in like order).

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

(2) **PART NUMBER column** Indicates the primary number used by the manufacturer (individual, 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.

(3) **STOCK NUMBER column** This column lists the NSN for the associated part number and manufacturer identified in the PART NUMBER and FSCM columns to the left. The part number line entry (with NSN, when available) identifies the first figure/item number appearance for which the part number is applicable. The part number is not listed for additional figure/item number appearances identified by that part number.

(4) **FIG. column.** This column lists the number of the figure where the item is located in Section II.

(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. 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 USAMICOM, 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 part 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 a and b(3), (4), and (5) above was taken. e. For requisitioning miscellaneous consumable maintenance supplies or expendable supplies, use CTA 50-970.

d. **The USABLE ON CODE** appears in the lower left corner of the Description column heading. Usable on codes are shown as "UOC" in the Description column (justified left) on the first line applicable item description/nomenclature.

e. This RPSTL does not contain illustrations for items listed in Section II, since the manufacturer's manuals contain exploded view illustrations which are adequate for repair parts location. Copies of the manufacturer's manuals for the Temperature Measuring System, Instrulab, Type 4100, RTD DTI, are furnished with the equipment for which this RPSTL is prepared. The figure and item numbers in the listing are for locating the item within this RPSTL.

6. How to Locate Repair Parts

a. When National Stock Number or Part Number is Not Known.

(1) **First.** Refer to the parts list to locate the item by description. This list is listed in alphabetical sequence within each figure number.

(2) **Second.** After locating the item in the Repair Parts List, refer to the Part Number Index to find the NSN.

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 Number (NIIN) sequence. The part numbers in the Part Number index are listed in ascending alphanumeric sequence. 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

SECTION II

TM9-6685-329-34P

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC) QTY	(6)
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GROUP 0010 - FIGURE 1
TEMPERATURE MEASUREMENT SYSTEM
4100 RTD DTI (21713)

10 PAFZZ 16428 17237			CABLE ASSEMBLY,POWE1		
20 PAFFF 21713 147-0273			CASE,SET	1	
30 PAFFF 21713 146C03098			CIRCUIT CARD ASSY MASTER, (FOR1 PARTS SEE GROUP 0020,FIGURE 2.....		
40 PAFFF 21713 146B0310A			CIRCUIT CARD ASSY, DISPLAY,(FOR 1 PARTS SEE GROUP 0030,FIGURE 3		
50 PAFZZ 81312 M4PLSH14			CONNECTOR,PLUG,ELEC.	1	
60 PAFZZ 81312 M4SLRN			CONNECTOR,RECEPTACL.....	1	
70 PAFZZ 81349 F02B250V1/8A			FUSE,CARTRIDGE	1	
80 PAFZZ 71400 HTA			FUSEHOLDER,EXTRACTO	1	
90 PAFZZ 82389 N112B			JACK,TE LEPHONE	1	
100 PAFZZ 82389 250			PLUG,TELEPHONE.....	1	
110 PAFZZ 21713 830-48-02			SENSOR,TEMPERATURE E,100 OHM PLATINUM RESISTANCE		
120 PAFZZ 82389 46256LFR			SWITCHSLIDE	1	

GROUP 0020 - FIGURE 2
CIRCUIT CARD ASSEMBLY MASTER
146C0309B (21713)

10 PAFZZ 84171 TCPRO1			CAPACITOR9FIXED,CER	19	
20 PAFZZ 60705 33C41B6			CAPACITOR,FIXED,CER	2	
30 PAFZZ 60705 562CX5EBA102EE47 IK			CAPACITOR,FIXED,CER	2	
40 PAFZZ 84171 CCO101			CAPACITOR,FIXEO,CER	6	
50 PAFZZ 84171 CCD301			CAPACITOR,FIXED,CER	3	
60 PAFZZ 84171 CC0330			CAPACITOR,FIXED,CER	1	
70 PAFZZ 84171 CCO0050			CAPACITOR,FIXED,CER	1	
80 XDFZZ 60705 562CX5FBA102EG15 2K			CAPACITOR,FIXED,CER		
90 PAFZZ 81349 M38510/172038CB			MICROCIRCUIT,DIGITA.....		
100 PAFZZ 07148 80787-1			MICROCIRCUIT,DIGITA.....	1	
110 PAFZZ 81349 M38510/05001BCB			MICROCIRCUIT,DIGITA.....	2	
120 PAFZZ 52297 40610005			MICROCIRCUIT,LINEAR.....	1	
130 PAFZZ 28480 1826-0423			MICROCIRCUIT,LINEAR.....	1	
140 PAFZZ 34148 UA78LO5AWC			MICROCIRCUIT,LINEAR.....	1	
150 PAFZZ 04713 MCT8L15CG			MICROCIRCUIT,LINEAR.....	1	
160 PAFZZ 04713 MC79L15CG			MICROCIRCUIT,LINEAR.....	1	
170 PAFZZ 03508 A114F			SEMICONDUCTOR DEVIC	4	
180 PAFZA 28480 3101-1194			SWITCH,PUSH.....	1	
190 PAFZZ 83330 2597A-6			TERMINAL BOARD	1	
200 PAFZZ 80131 2N3605			TRANSISTOR.....	3	

(1) ITEM NO	(2) SMR CODE	(3) FSCM	(4) PART NUMBER	(5) DESCRIPTION AND USABLE ON CODES(UOC)	(6) QTY
			GROUP 0030 - FIGURE 3 CIRCUIT CARD ASSEMBLY DISPLAY 46B0310A (21713)		
10 PAFZZ 32997 4114R-001-390			RESISTOR NETWORK,FI		1

SECTION IV**TM9-6685-329-34P CO1****NATIONAL STOCK NUMBER AND PART NUMBER INDEX**

NATIONAL STOCK NUMBER INDEX					
STOCK NUMBER	FIG.	ITEM	STOCK NUMBER	FIG.	ITEM
5920-00-031-5181	1	80			
5910-00-078-7636	2	50			
5961-00-104-5726	2	200			
5910-00-119-9300	2	10			
5930-00-195-9428	2	180			
5935-00-257-7579	1	60			
5935-00-258-0609	1	100			
5920-00-284-9455	1	70			
5910-00-410-4175	2	70			
5930-00-468-2528	1	120			
5935-00-581-3284	1	50			
5910-00-681-6965	2	40			
5935-00-761-4699	1	90			
5910-00-778-7155	2	60			
5910-00-913-0802	2	30			
5910-00-989-9450	2	20			
5962-01-012-5828	2	110			
5961-01-016-5868	2	170			
5962-01-049-5245	2	140			
6150-01-057-0941	1	10			
5962-01-085-9494	2	90			
5962-01-087-9508	2	100			
5962-01-137-3675	2	120			
5905-01-148-3234	3	10			
5962-01-154-1065	2	130			
5940-01-163-6480	2	190			
5962-01-219-3279	2	150			
5962-01-219-3780	2	160			
6685-01-242-8429	1	20			
5999-01-242-8539	1	40			
5999-01-244-3795	1	30			
6685-01-245-0272	1	110			

NATIONAL STOCK NUMBER AND PART NUMBER INDEX

PART NUMBER INDEX

FSCM	PART NUMBER	STOCK NUMBER	FIG.	ITEM
03508	A114F	5961-01-016-5868	2	170
84171	CCD050	5910-00-410-4175	2	70
84171	CCD101	5910-00-681-6965	2	40
84171	CCD301	5910-00-078-7636	2	50
84171	CCD330	5910-00-778-7155	2	60
81349	F02B250V1/BA	5920-00-284-9455	1	70
71400	HTA	5920-00-031-5181	1	80
04713	MC78L15CG	5962-01-219-3279	2	150
04713	MC79L15CG	5962-01-219-3780	2	160
81349	M38510/O5001BCB	5962-01-012-5828	2	110
81349	M38510/17203BCB	5962-01-085-9494	2	90
81312	M4PLSH14	5935-00-581-3284	1	50
81312	M4SLRN	5935-00-257-7579	1	60
82389	N112B	5935-00-761-4699	1	90
84171	TCPRO1	5910-00-119-9300	2	10
34148	UA78LO5AWC	5962-01-049-5245	2	140
21713	146B0310A	5999-01-242-8539	1	40
21713	146C0309B	5999-01-244-3795	1	30
21713	147-0273	6685-01-242-8429	1	20
16428	17237	6150-01-057-0941	1	10
28480	1826-0423	5962-01-154-1065	2	130
80131	2N3605	5961-00-104-5726	2	200
82389	250	5935-00-258-0609	1	100
83330	2597A-6	5940-01-163-6480	2	190
28480	3101-1194	5930-00-195-9428	2	180
60705	33C41iaB6	5910-00-989-9450	2	20
52297	40610005	5962-01-137-3675	2	120
32997	4114R-001-390	5905-01-148-3234	3	10
82389	46256LFR	5930-00-468-2528	1	120
60705	562CX5EBA102EE47 1K	5910-00-913-0802	2	30
60705	562CX5FBA102EG15 2K		2	80
07148	80787-1	5962-01-087-9508	2	100
21713	830-48-02	6685-01-245-0272	1	110

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