

TM 11-6625-2954-24P

TECHNICAL MANUAL

**ORGANIZATIONAL, DIRECT SUPPORT AND
GENERAL SUPPORT MAINTENANCE
REPAIR PARTS AND SPECIAL TOOLS LIST
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)
FOR
SIGNAL GENERATOR
SG-1144/U
(NSN 6625-01-075-8478)**

HEADQUARTERS, DEPARTMENT OF THE ARMY

24 NOVEMBER 1982

TECHNICAL MANUAL

No. 11-6625-2954-24P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, 24 November 1982

ORGANIZATIONAL, DIRECT SUPPORT, AND GENERAL SUPPORT
MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS LISTS
(INCLUDING DEPOT MAINTENANCE REPAIR PARTS AND SPECIAL TOOLS)
FOR
SIGNAL GENERATOR
SG-1144/U
(NSN 6625-01-075-8478)
Current as of 15 June 1982

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 the back of this manual direct to: Commander, US Army Communications-Electronics Command and Fort Monmouth, ATTN: DRSEL-ME-MP, Fort Monmouth, NJ 07703.

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

Table of Contents

	Page	Figure
Section I. Introduction	1	
II. Repair Parts List	5	
GROUP 00 Generator, Signal SG-1144/U	5	1
Major Components, Signal Generator SG-1144/U	7	2
Circuit Card Extender Board A14	9	3
01 Main Frame A1	15	4
02 Power Supply A2	21	5
Power Supply Regulator Assembly A2A1	25	6
Power Supply Regulator Assembly A2A2	29	7
03 Frequency Meter A3	33	8
04 Frequency Display A4	37	9
05 Modulation Circuit A5	41	10
06 Levelling Circuit A6	47	11
07 RF Oscillator A7	51	12
Variable Oscillator Assembly A7A1	53	13
Fixed Oscillator Assembly A7A2	55	14
RF Oscillator Cover Assembly A7A3	57	15
08 Fixed Oscillator Divider A8	59	16
Fixed Oscillator Divider Assembly A8A1	63	17
Display Divider Bored Assembly A8A2	67	18
Low Pass Filter Board Assembly A8A3	69	19
Feed-Through Capacitor Assembly A8A4	71	20
Cover Assembly A8A5, A9A5 and A10A5	73	21
09 Variable Oscillator Divider	75	22
Divider Board Assembly A9A1	79	23
Band Pass Board Assembly A9A2	83	24
Modulator Board Assembly A9A3	85	25
Feed-Through Capacitor Assembly A9A4	87	26
10 Mixer and Output Circuit A10	89	27
Low Pass Filter and Mixer Assembly A10A1	93	28
Preamplifier Assembly A10A2	97	29
Detector and Line Receiver A10A3	99	30
Feed-Through Capacitor Assembly A10A4	101	31

*This manual supersedes so much of TM 11-6625-2954-14&P, 30 January 1980, as pertains to repair parts and special tools list.

	Page	Illus Figure
GROUP 1 1 RF Amplifier A11	103	32
12 RF Circuit Breaker A12	105	33
RF Circuit Breaker Board Assembly A12A1.....	107	34
RF Circuit Breaker Cover Assembly A12A3	109	35
13 RF Attenuator A13	111	36
SECTION III. Special Tools List (Not applicable)		
IV. National Stock Number and Part Number Index.....	113	

SECTION I

INTRODUCTION

1. Scope

This manual lists 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 SG-1144/U. 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 is divided into the following sections:

a. *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 parts in each group listed in figure and item number sequence.

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 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 or known usage.
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.

xA—Item is not procured or stocked because the requirements for the item will result in the replacement of the next higher assembly.

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 source 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
O—	Support item is removed, replaced, used at the organizational level.
H—	Support item is removed, replaced, used at the general support level.

(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
H—	The lowest maintenance level capable of complete repair of the support item is the general support level.
Z—	Nonreparable. No repair is authorized.

(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: