

Rescinded per DA Cir. 310-8, 9 Feb. 55

**DEPARTMENT OF THE ARMY
SUPPLY CATALOG**

SIG 7 & 8 GR-3

*Organizational Maintenance Allowances
and Field and Depot Maintenance Stockage Guide
for*

SOUND RANGING SET GR-3-C

*Supersedes: SIG 7-GR-3, 10 October 1944; SIG 8-GR-3, 1 July 1944; SIG 8-BK-9 1 July 1944;
SIG 8-BD-85, 1 July 1944; SIG 8-BD-62, 1 July 1944*

Ref: TM 11-444

- 1. A copy of SIG 1 should be available to every user of any part of the Signal portion of the Army Supply Catalog. SIG 1 includes—
 - a. An explanation of the purpose and use of the Signal portion of the Army Supply Catalog.
 - b. Alphabetical and numerical indexes of available catalogs in the Signal portion of the Army Supply Catalog.

2. Department of the Army Supply Catalogs for the following equipments are also required for complete maintenance allowance data of the equipment covered herein:

- | | |
|------------------------------|----------------------|
| Chest Set TD-1 | Test Set I-56-K |
| Generator GN-38 | Test Set I-176 |
| Handset TS-9 | Test Set TS-26/TSM |
| Headset HS-30 | Tool Equipment TE-37 |
| Microphone T-23 | Tool Set TE-6 |
| Oscillograph Equipment IE-14 | Tube Tester I-177 |
| Telephone EE-8 | Voltohmmer I-166 |

See SIG 1, Section III, for the availability of supply catalogs listing maintenance allowance data for the above-named equipments.

3. Maintenance of the Sound Ranging Set GR-3-C and/or any of its components will be continued as long as items appearing on the Maintenance Parts List are available. As parts become unobtainable, maintenance can be continued by cannibalization as long as feasible and thereafter the equipment shall be replaced by the Sound Ranging Set GR-8- ().

4. Unless otherwise indicated the unit of measure of all items listed herein is each (ea).

5. Those spare part items not regularly authorized for stockage by using organizations, but which may be obtained through normal requisitioning procedures where a repair operation involving the part is considered practicable, are indicated by a percent symbol (%) in the appropriate column.

6. Items marked X under Expendability Note are expendable within the meaning of AR 35-6620; nonexpendable items are marked NX.

copy 1

7. SIG 7 & 8-GR-3 consists of three parts as follows:

a. *Maintenance items.* A list of parts for repair and supply facilities as follows:

Sound Ranging Set GR-3-C.....	Page 1
Control Board BD-85-A, B, C, D.....	Page 5
Relay Unit BK-9-C.....	Page 6
Switchboard BD-62-B, C.....	Page 7

b. *Stock number list.* A list of all stock numbers in the Maintenance Items portion arranged in stock number sequence and cross-referenced to page numbers to facilitate compliance with SB 11-47.

c. *Basic issue items.* A list of component parts showing the quantities of each that comprise a complete operating equipment, including running spares, that is, those spare parts shipped concurrently with the equipment, and accessories. All suffix letters have been omitted where variations of such letters do not affect the interchangeability of the item as a whole. Control Board BD-85-A, B, C; Switchboard BD-62-B, C, and Protector AR-8-A, are subassembly items for which separate lists are included herein. The following components are subassembly items for which the Department of the Army Supply Catalog, prepared to cover the specific component, is required for a complete breakdown of the initial issue items:

- Microphone T-23
- Oscillograph Equipment IE-14
- Telephone EE-8
- Test Set I-56-K
- Test Set TS-26/TSM
- Tool Equipment TE-37
- Tool Set TE-6

DEPARTMENT OF THE ARMY
WASHINGTON 25, D. C., 27 September 1951

Department of the Army Supply Catalog SIG 7 & 8 GR-3 is published for the information and guidance of all concerned.

[AG 461 (17 Sep 51)]

BY ORDER OF THE SECRETARY OF THE ARMY:

OFFICIAL:

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The Adjutant General

J. LAWTON COLLINS
Chief of Staff, United States Army

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For explanation of distribution formula, see SR 310-90-1.

SIGNAL CORPS STOCK NUMBER	FEDERAL COMMODITY CLASSIFICATION AND IDENTIFICATION NUMBER	REFERENCE SYMBOL	DESIGNATION BY	DESCRIPTION	QUANTITY PER EQUIP	ECHELON 1ST RUNNING SPARES	MAINTENANCE										SUPPLY						
							AUTHORIZED ALLOWANCES					STOCK GUIDE					STOCK GUIDE			DEPOT			
							ORGANIZATIONAL		FIXED		STATION	FIELD		REPAIR		SHOPS	REPAIR		ARMY	DEPOT		TACTICAL	BASE
							2ND ECHELON	1-4	5-20	1-4	5-20	3RD ECHELON	4TH	5TH	100	50	100	50	100	50	100	50	100
3C323-2A				SWITCHBOARD BD-62-B, C (continued) COIL, telephone retardation: 2 wnds, metal case; ea	1	-	%	%	%	1	1	1	2	1	8	X							
2Z7586				RELAY, armature: SFST; single wnd 24 v DC, 24 ma, 1000 ohm; ea	2	-	%	%	%	1	1	4	7	4	35	X							
3RC31AE151J				RESISTOR, fixed: comp; 150 ohm ±5%; 1 w, JAN type RC31AE151J; ea	2	-	1	1	1	1	1	2	4	2	20	X							
6L6348-5.1				SCREW, machine: slot drive; RH; #3-48; 5/16" lg; ea	44	-	-	-	-	1	1	5	8	5	270	X							
6L6632-32.1				SCREW, machine: slot drive; RH; #6-32 2" lg; ea	4	-	-	-	-	1	1	5	8	5	39	X							
6L6632-36.1				SCREW, machine: slot drive; RH; #6-32; 2-1/4" lg; ea	4	-	-	-	-	1	1	5	8	5	39	X							
4C4978				SWITCH, lever: 2 position, locking; cont arrangement position #1-1C, 1C; position #2-1A, 1C; ea	8	-	%	%	%	1	3	10	18	10	87	X							
4C4977				SWITCH, lever: 2 position, locking; cont arrangement position #1-2A, position #2-2C; ea	2	-	-	-	-	1	1	2	4	2	20	X							
4C4980-35				SWITCH, lever: 2 position, position #1 locking, position #2 non locking; cont arrangement position #1-1A, position #2-1C, 1C, 1A; ea	1	-	-	-	-	1	1	1	2	1	12	X							
4C3503				SWITCHBOARD DROP M-203; iron; incoming call indicator; ea	10	-	-	-	-	-	-	8	11	6	72	X							
4F2544				TRANSFORMER, power; ringing; pri 24 v, 20,60 cyc, 1/2 amp max; 3 secd, ea 24 v, 1/6 amp; max; ea	1	-	-	-	-	1	1	2	3	2	13	X							

STOCK NUMBER LIST
FOR
SOUND RANGING SET GR-3

Stock No.	Page No.	Stock No.	Page No.
1B8	1, 4	3Z9910	3
1B810.31	4	3Z9912A	3
1B816.4	4	3Z10163	4
1B1220.7	4	3Z10182	4
1B3020-30	1	3Z12026-9	3
2B226.1	2	4B417	2
2Z392	5	4B2358	3
2Z5537	7	4C310D	1
2Z7226-145	2	4C3503	8
2Z7226-146	2	4C4314	7
2Z7586	8	4C4319	7
2Z7592	6	4C4365	5
2Z7592-2	6	4C4977	8
2Z7592-6	6	4C4978	8
2Z7645-5	6	4C4980-35	8
2Z7649-7	6	4C5092Y.1	3
2Z7649-8	6	4C5208DA	5
2Z8778	5	4C5208DA-1	5
2Z8799-25	5	4C9858	6
3B29	1	4E681	1
3B29/10	2	4E682	1
3B2600	3	4F2544	8
3B2600.1	3	4G325.1	2
3B4295	4	4G385	5
3C44	7	4G385A/S1	5
3C61	7	4G385A/T1	5
3C158	2	4G394	2
3C323-2A	8	4G632	2
3DA250-380	7	4G1406A	3
3DA500-451	2, 6, 7	4G1406A/S6	3
3DB1-190	7	4G1741	3
3E66	2	4G1751	3
3E67	2	4G1809	3
3E327	2	4G1888A	3
3E1250B	2	4G1909	3, 6
3E1428	1	4G3003C	11
3E1438	1	4G3003C/F3	2
3E1439	1	4G3003C/K1	2
3E1443	1	4G4762	7
3E1444	1	4G4762B/S7	7
3E2038	1	4Z3118.2	7
3E2050A	2	6B400	2
3E2139	1	6G202.11	2
3E2144	1	6G673.7	2
3F901-7	5	6G1318	3
3F901E5-1	5	6L6348-5.1	8
3F1005-61	5	6L6632-32.1	8
3F1005-62	3	6L6632-36.1	8
3F1020-19	5	6M1201	3
3F8050-15	5	6M1220.3	3
3F8100-6	5	6N1619	2
3RC31AE151J	8	6Z1906	2
3RC31BF301J	6	6Z3810-83	7
3RW9310	5	6Z5003	2
3Z245	3	6Z8046-1	2, 4
3Z1925	5, 7	6Z8369	3
3Z1926	5, 7	6Z8420-2	3
3Z2015-1	5	6Z8422	3
3Z2427	2	6Z8496-1	3
3Z2587	5	6Z8496-2	3
3Z3275	5, 7	6Z8726-2	4
3Z3330-148	2	8A980	2
3Z4426	3	8A1174	2
3Z6045-9	6	8A3430	3
3Z7200-3	6	8A3828	4

BASIC ISSUE ITEMS

SIGNAL CORPS STOCK NUMBER	FEDERAL COMMODITY CLASSIFICATION AND IDENTIFICATION NUMBER	DESIGNATION BY	DESCRIPTION	SUB- ASSEM- BLY	QUANTITIES REQUIRED	
					FOR INITIAL OPERATION	SPARE AND ACCESS- ORIES
						TOTAL
4G3003C			SOUND RANGING SET GR-3-C: photographic recording of sound arrivals from mic of low freq range; 24 v DC			
			TECHNICAL MANUAL TM-11-444			
1B816.4			WIRE WD-10/U: #16 AWG wires, stranded 2 cond; ft		2	2
1B1220.7			WIRE, electrical: single cond #20 AWG; solid; ft		50	50
2B830			HEADSET HS-30: magnetic, 250 ohm impedance		1000	1000
2B1623			MICROPHONE T-23: hot-wire; w/linear response; used f/field artillery sound ranging; freq response in ranges 5 to 25 cps and 5 to 60 cps obtained by acoustic filter plugs	+	6	6
2Z2599-290			CHEST CH-290: f/storage and transportation of 4 microphone T-23			
3B29			BATTERY BB-29; portable; 4 volts			
3B1500.6-1			ELECTROLYTE, battery: sulphuric acid; liquid form; glass entr; 1 gal entr; 1,350 sp/gr		8	8
3B2202			HYDROMETER HY-2		1	1
3B2600			JUG; glass; clear; 1 gal cap		2	2
3B2600.1			JUG; glass; brown; 1 gal cap		3	3
3B4295			TEST SET, battery: heavy discharge type		1	1
3E66			CORD CC-66: switchboard; 18" lg; 2 #18 AWG stranded cond		10	10
3E1250B			CORD CC-67: switchboard; 36" lg; 2 #18 AWG stranded cond		2	2
3E1428			CABLE ASSEMBLY, TELEPHONE: Cord CD-250-B; 50 ft lg; 30 cond; #20 AWG		1	1
3E1438			CABLE ASSEMBLY, AF: Cord CD-428; 2 #18 AWG cond; approx 6" lg		9	6
3E1439			CABLE ASSEMBLY, POWER: Cord CD-139; 20 ft lg; 8 cond; 2 #14 AWG and 6 #20 AWG		2	2
3E1443			CABLE ASSEMBLY, POWER: Cord CD-143; 17-1/4"; 8 cond; 2 #14 AWG and 6 #20 AWG		1	1
3E1444			CABLE ASSEMBLY, POWER: Cord CD-144; 14" lg; 8 cond; 2 #14 AWG and 6 #20 AWG		1	1
3E2038			CABLE ASSEMBLY, POWER: Cord CO-38; single cond #10 AWG; 12" lg		2	2
3E2050A			CABLE ASSEMBLY, power: Cord CO-50-A; 6 ft lg; 2 cond #16 AWG		6	4
3F4056K			TEST SET 1-56-K: input 110-120 volts ac, 60 cyc	+	3	1
3F4325-26			TEST SET TS-26/TSM: portable; DC volts 0 to 3,300,600, ohm 0 to 1000, 10,000 100,000, 1,000,000; 1000 ohm per volt	+	1	1
3Z1910A			FUSE, cartridge; 5 amp			18
3Z1925			FUSE FU-25: 5 amp; 25 v			12
3Z1926			FUSE, cartridge; 1 amp, 250 v			12
3Z2015-1			FUSE, cartridge; 15 amp, 25 v			24
3Z2587			FUSE, cartridge; 1/4 amp, 250 v			24
3Z3330-148			GROUND ROD MW 148/G: approx 6 ft lg x 3/4" dia, cone point		1	1
4B417			GHEST SET TD-1		1	1
4B1109			HANDBET TS-9: max rec output 600 to 1600 cyc at 256 ohm			
4B2358			PLUG PL-58: 3 rd contact; 90 deg angle type			
4B5008			TELEPHONE EE-8: LB and CB; field set; self-contained	+	3	3
4C310D			BELL; vibrating; adj		1	1
4E681			BLOCK, protector; carbon; 3/4" wd x 3/8" h x 3/8" d		33	33
4E682			BLOCK, protector; sub-station; 3/4" h x 3/8" wd x 3/8" d		20	20
4G290			BUCKET: f/carrying liquids; 10 qt; open		8	8

SIGNAL CORPS STOCK NUMBER	FEDERAL COMMODITY CLASSIFICATION AND IDENTIFICATION NUMBER	DESIGNATION BY	DESCRIPTION	SUB- ASSEM- BLY	QUANTITIES REQUIRED	
					FOR INITIAL OPERATION	FOR INITIAL OPERATION ACCESSORIES TOTAL
4G344A			SOUND RANGING SET GR-3-C (continued)			1
4G345A			CHEST CH-44-A: f/carrying lamps; tubes, spare parts			1
4G346A			CHEST CH-45-A: f/carrying frame, magazines, fixing-tray and fixing-roller of oscillograph equip			1
4G347A			CHEST CH-46-A: f/transporting Switchboard BD-62-B			1
4G348A			CHEST CH-47-A: f/carrying Control Board BD-85-A			1
4G-385			CHEST CH-48-A: f/carrying Oscillograph Equip IE-14			1
4G394			CONTROL BOARD BD-85: c/o 6 1-stage amplr			1
4G632			COVER BG-74: dustproof; to cover oscillograph			1
4G1240			GRADUATE, measuring: 32 oz			2
4G1406A			LAMP LM-40: 4.2 volts, 3.7 amp; pre-focus base			10
4G1614			SHELTER BE-66-A: circular canvas cover; 21" dia; w/carrying handle; to protect microphone from seismic sound, wind and weather			8
4G1741			OSCILLOGRAPH EQUIPMENT IE-14; includes camera, timing unit, recording lamp and associated equipment necessary for operation of 8 ea Oscillograph Unit M-166-A			1
4G1751			BOX BE-71: outpost connecting box; small box to contain 3 pr of banding posts a capacitor and choke coil			2
4G1888A			OUTPOST UNIT BE-51: c/o milliammeter, resistance unit, push button switch and cord			2
4G1909			PROTECTOR AR-8-A: to provide protection to Central Station Equip from abnormally high current			1
4G3003C/F3			RELAY UNIT BK-9: 6 relays arrange to control ckt sequence			1
4G3003C/K1			FITTING, tubing: 90 deg elbow; 5/16" OD, 3/16" ID; ea side of elbow 1-1/2" lg			3
4G4762E			DEVELOPING KIT, photographic: c/o Assorted chemicals in waterproofed carton			8
6B400			SWITCHBOARD BD-62-B: c/o 10 electrical channels, 8 f/microphone lines, 2 f/output lines; f/telephone communications			1
6F705			COTTON: absorbent; medicated; 1 oz pkgs			1
6G16.5			CHEST BC-5: pack; 1g x 18-1/8" wd x 12" h o/a			1
6G202.11			ALCOHOL: ethyl denatured; in 5 gal metal entr			5
6G450			CEMENT, liquid: general purpose; 2 oz			1
6M995			ETHER: in dark colored bottle or can; 4 oz			1
6M1201			PENCIL: yellow; china marking; paper-wrapped; approx 5/16" dia x 7" lg			12
6M1220.3			STAMP, rubber: identification; sound locating data			2
6N1619			PAD, stamp: black			2
6N5583			CLOTH, textile: f/cleaning; 10 yd bolt			5
6N8692			TAPE TL-83: cotton; friction; adhesive; black; 3/4" wd			1
6R3000			TAPE TL-192: two-ply; adhesive			1
6R22019			PICKS: railroad type			2
6R24639			SHOVEL LC-19: rd point; size 2, B-1, A; D type wood handle			2
6R38006			SOLDERING IRON TL-199: electric; 50 w			1
6R38037			TOOL SET TE-6			1
6R46200			TOOL EQUIPMENT TE-37: relay maintenance; f/sound ranging equip			1
6Z6827			TWEEZERS: pointed			2
			LAMP LM-30: 27 v, 1 amp; bayonet candelabra base			10

SIGNAL CORPS STOCK NUMBER	FEDERAL COMMODITY CLASSIFICATION IDENTIFICATION NUMBER	DESIGNATION BY	DESCRIPTION	SUB- ASSEM- BLY	QUANTITIES REQUIRED			
					FOR INITIAL OPERATION	RUNNING SPARES AND ACCESS- ORIES	TOTAL	
627500-0			SOUND RANGING SET GR-3-C (continued)			2	2	2
628420-2			ABRASIVE, sheet; sandpaper; flint; grit size #0			72	-	72
628421-1			STOPPER, cork; 31mm max dia x 25mm min dia			6	-	6
628422			STOPPER, rubber; 7/8" min dia x 1-1/8" max dia x 1" lg; w/1/4" dia hole			12	-	12
628726-2			STOPPER, rubber; 32mm max dia x 26mm min dia x 26mm lg			2	-	2
628813			TUBING, rubber; flexible; 9/32" OD, 3/16" ID			3	-	3
7A1928			TWINE RP-13; linen; 600 yds to lg			24	-	24
8A980			TUBING ML-188; pure gum rubber; 1/8" ID; 1/32" wall; 24" lg; f/inflation of gram ceiling balloons			2	-	2
8A1174			DRYER, film; liquid; 1 qt can			-	4	4
8A3430			FUNNEL PH-174			-	3	3
8A3665			ROD PH-230; hard rubber			-	6	6
8A3828			SPONGE; cellulose; fine pore; 3-1/2" x 5-1/4" x 1-5/8"			2	-	2
14-G-1196-400			THERMOMETER PH-28; 20° to 120°F			-	1	1
14-O-2833-994			GREASE, lubricating; 8 oz			-	2	2
			OIL, lubricating; 4 oz cn			-	2	2

SIGNAL CORPS STOCK NUMBER	FEDERAL COMMODITY CLASSIFICATION AND IDENTIFICATION NUMBER	DESIGNATION BY	DESCRIPTION	SUB- ASSEM- BLY	QUANTITIES REQUIRED		
					FOR INITIAL OPERATION	FOR SERVICE REPAIRS AND ACCESSORIES	TOTAL
4G385			CONTROL BOARD BD-85-A, B, C, D: connects 8 mic to Oscillograph Units M-166-A; ea.				
4G386Z			BARE UNIT for Control Board BD-85; ea		1		1
3A26			BATTERY BA-26: 4.5 v; 8-1/2" ±1/8" lg x 4-3/8" ±1/8" wd x 3-1/16" ±1/16" h; ea		2	2	4
3A28			BATTERY BA-28: 4-1/2 v; 1-31/32" wd x 21/32" d x 2-1/4" h; ea		1		1
3Z1925			FUSE FU-25: cartridge; 5 amp, 25 v; ea		1	12	13
3Z1926			FUSE FU-26: cartridge; 1 amp, 250 v; ea		1	12	13
3Z2015-1			FUSE, cartridge; 15 amp, 25 v; ea		1	1	2
3Z2587			FUSE, cartridge; 1/4 amp, 250 v; ea.		1	24	25

SIGNAL CORPS STOCK NUMBER	FEDERAL COMMODITY CLASSIFICATION AND IDENTIFICATION NUMBER	DESIGNATION BY	DESCRIPTION	SUB- ASSEM- BLY	QUANTITIES REQUIRED		
					FOR INITIAL OPERATION	RUNNING SPARES AND ACCESS- ORIES	TOTAL
4G4762			SWITCHBOARD BD-62-B, C: e/o 10 electrical channels, 8 f/microphone lines, 2 f/output lines; f/telephone communications				
4G4762BZ			BARE UNIT For Switchboard BD-62-B, C: ea		1	-	1
3Z1925			FUSE FU-25: 5 amp; ea		1	12	13
3Z1926			FUSE FU-26: 1 amp; ea		1	12	13

SIGNAL CORPS STOCK NUMBER	FEDERAL COMMODITY CLASSIFICATION AND IDENTIFICATION NUMBER	DESIGNATION BY	DESCRIPTION	SUB- ASSEM- BLY	QUANTITIES REQUIRED	
					FOR INITIAL OPERATION	FOR MAINTENANCE, REPAIR AND ACCESSORIES TOTAL
4G1888A			PROTECTOR AR-1-A; fuse type; to provide protection to Sig C Central Station Equip from abnormally high current; w/22 fuses and 22 lightning arrestors in gangs of 11; 16" h x 12" w; ea			
4G1888AZ			BABE UNIT for Protector AR-1-A; ea	1	-	1
3Z1910A			FUSE, cartridge; 5 amp; ea	22	-	22
4E681			BLOCK, protector; carbon; sub-station; ea	22	-	22
4E682			BLOCK, protector; bakelite; sub-station; ea	22	-	22