

DEPARTMENT OF THE ARMY TECHNICAL BULLETIN

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SECURITY FILES (SAFES) USED IN RADIO  
TELETYPEWRITER SET AN/GRC-46B, TELEGRAPH  
TERMINAL AN/MSC-29, AND TELETYPEWRITER  
CENTRAL OFFICE AN/MGC-17

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Headquarters, Department of the Army, Washington 25, D.C.  
20 June 1963

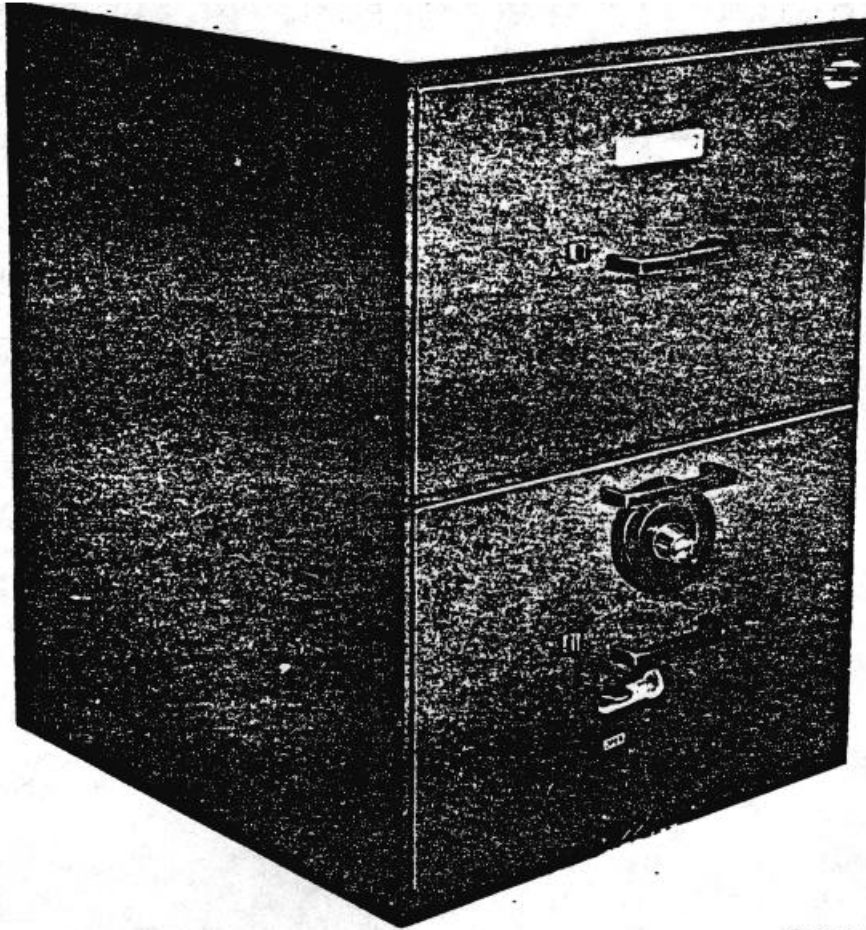
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**1. Scope.** This bulletin pertains to Radio Teletypewriter Set AN/GRC-46B, Telegraph Terminal AN/MSC-29, and Teletypewriter Central Office AN/MGC-17. They contain one or two drawer security files (safes) for storing classified equipment. These safes are shown in figures 1, 2, and 3.

**2. Purpose.** To alert field personnel that these safes *do not* meet the Class 3 requirement of Federal

Specification AA-F-358b. However, they do meet the interim requirements of AR 380-5, paragraph 50.

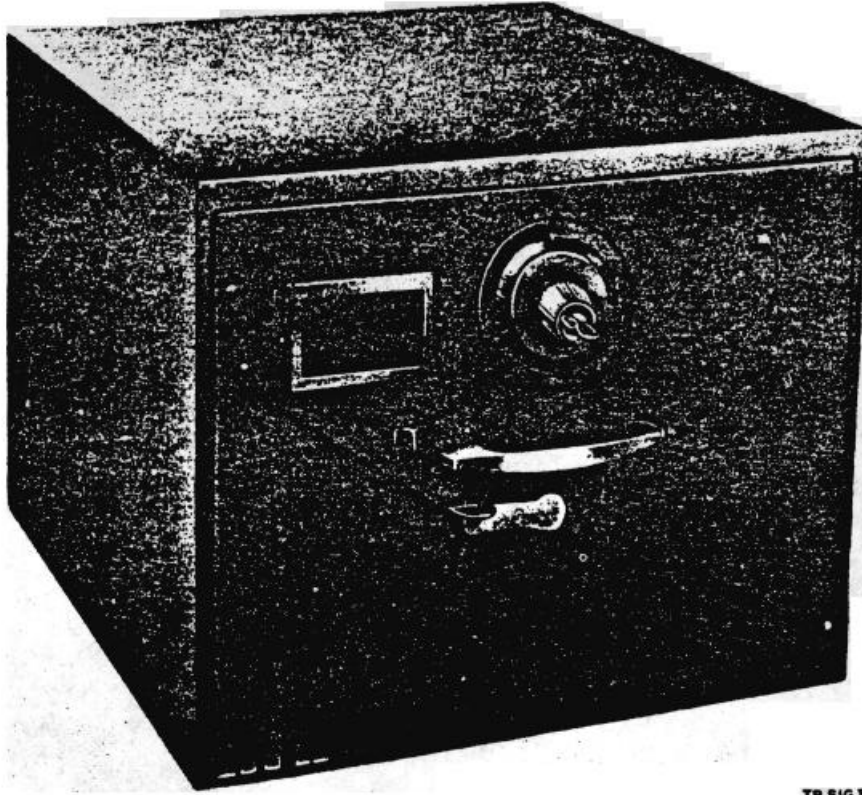
**3. Application.** Examine the safes for Federal Specification AA-F-358b identification plate shown in figure 3. If this plate is fastened to the safe, remove it. Mark the safe below the dial with a WARNING label to indicate: "This safe meets the interim requirements of AR 380-5. It does not meet the Class 3 requirements of Federal Specification AA-F-358b."



TB SIG 362 -1

Figure 1. Double drawer security file.

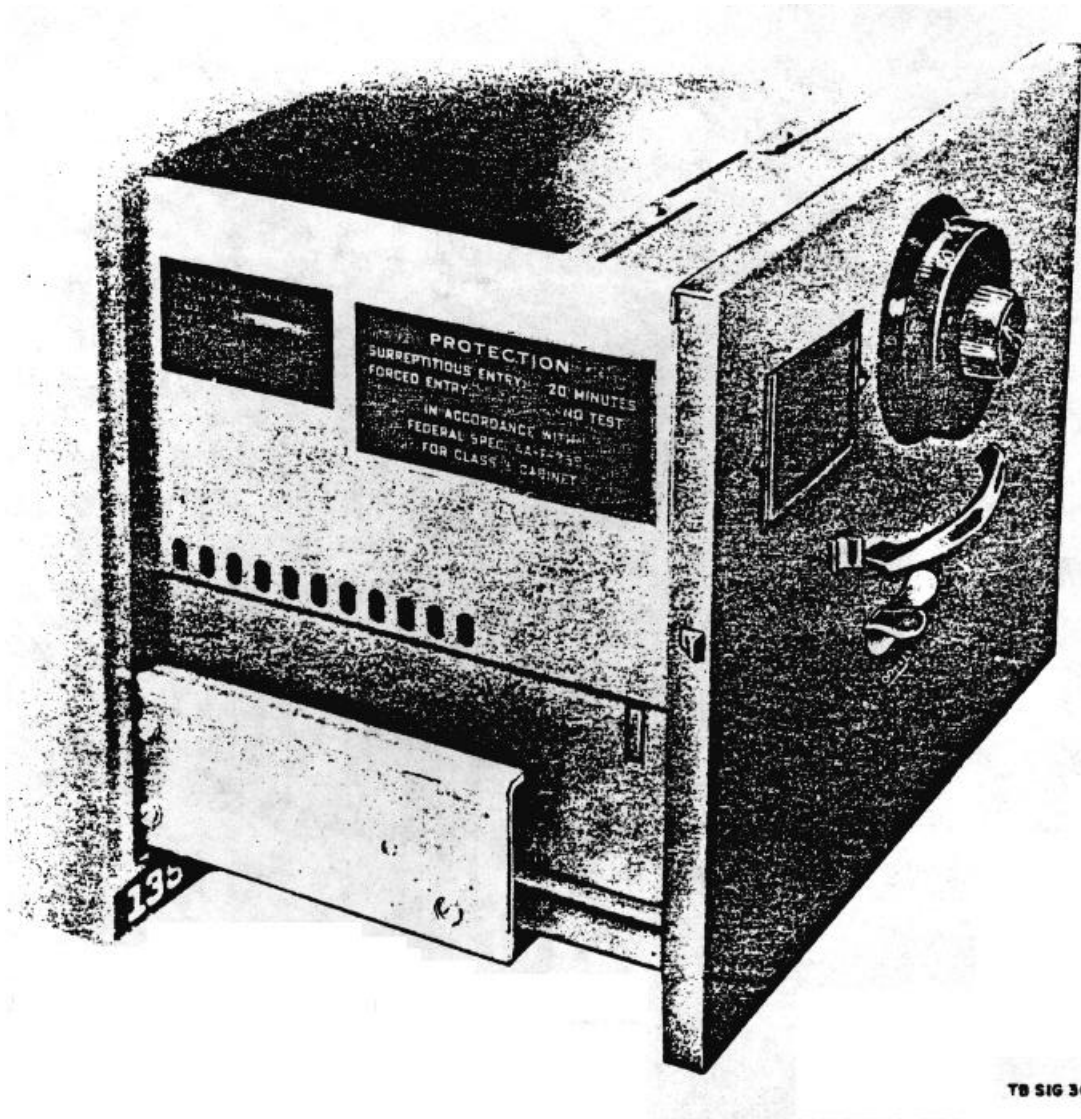
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Figure 2. Single drawer security file.

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TR SIG 362-3

Figure 3. Single drawer security file showing Federal Specification AA-F-358b label.

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By Order of the Secretary of the Army:

EARLE G. WHEELER,  
General, United States Army,  
Chief of Staff.

Official:

J. C. LAMBERT,  
Major General, United States Army,  
The Adjutant General.

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GENDEP (OS) (2)	1-78 8-35
Sig Sec, GENDEP (OS) (2)	1-127 8-36
Army Dep (2) except	1-137 8-75
Lexington, Tobyhanna (10),	5-5 8-76
Sacramento (20)	5-6 8-137
Sig Dep (OS) (10)	5-15 9-17
Svc College (1)	5-45 9-25
USMA (2)	5-46 9-26
Br Svc Sch (1)	5-112 9-47
AMS (1)	5-145 9-65
WRAMC (10)	5-146 9-66
BAMC (2)	5-155 9-86
AFIP (2)	5-156 9-87
USA Elct RD Actv (Ft Huachuca) (2)	5-214 9-217
USA Elct RD Actv (White Sands) (2)	7-11 9-227
USA Mbl Spt Cen (2)	7-12 9-377
USASCC (2)	7-15 9-500 (AA-AC)
USARCARIB Sig Agcy (1)	7-16 10-7
Instl (2) except	7-17 10-17
Ft Monmouth (59)	7-25 10-22

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10-45	17-105	
10-46	17-106	
10-105	29-1	
10-106	29-5	
10-107	29-21	
10-157	29-25	
10-201	29-26	
10-202	29-35	
10-206	29-36	
10-347	29-56	
10-348	29-65	
10-377	30-15	
10-445	30-16	
10-446	30-25	
10-447	30-26	
10-448	30-53	
10-500 (AA-AD)	30-56	
10-536	30-57	
11-5	30-67	
11-7	30-68	
11-8	33-105	
11-15	33-106	
11-17	37-42	
11-18	37-100	
11-37	37-102	
11-38	39-51	
11-55	44-12	
11-57	44-15	
11-165	44-16	
11-166	44-85	
11-167	44-86	
11-237	44-235	
11-50 (AA-AC, RM-RU)	44-236	
11-555	44-435	
11-557	44-436	
11-587	44-437	
11-592	44-445	
11-597	44-446	
17-2	44-447	
17-22	44-448	
17-25	44-500 (AA, AB)	
17-26	44-535	
17-35	44-536	55-52
17-36	44-537	55-57
17-42	44-544	55-75
17-45	44-545	55-76
17-46	44-546	55-79
17-51	44-547	55-116
17-55	44-548	55-126
17-56	54-2	55-158
17-65	54-102	55-456
17-66	54-202	55-457
17-77	55-11	55-458
17-85	55-12	55-469
17-86	55-16	55-500 (AA-AE)
17-100	55-37	57-5
17-102	55-46	57-100

NG: State AG (3); Units-same as Active Army except allowance is one copy each unit.

USAR: None.

For explanation of abbreviations used, see AR 320-50.

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## The Metric System and Equivalents

### *Linear Measure*

1 centimeter = 10 millimeters = .39 inch  
 1 decimeter = 10 centimeters = 3.94 inches  
 1 meter = 10 decimeters = 39.37 inches  
 1 dekameter = 10 meters = 32.8 feet  
 1 hectometer = 10 dekameters = 328.08 feet  
 1 kilometer = 10 hectometers = 3,280.8 feet

### *Weights*

1 centigram = 10 milligrams = .15 grain  
 1 decigram = 10 centigrams = 1.54 grains  
 1 gram = 10 decigrams = .035 ounce  
 1 decagram = 10 grams = .35 ounce  
 1 hectogram = 10 decagrams = 3.52 ounces  
 1 kilogram = 10 hectograms = 2.2 pounds  
 1 quintal = 100 kilograms = 220.46 pounds  
 1 metric ton = 10 quintals = 1.1 short tons

### *Liquid Measure*

1 centiliter = 10 milliliters = .34 fl. ounce  
 1 deciliter = 10 centiliters = 3.38 fl. ounces  
 1 liter = 10 deciliters = 33.81 fl. ounces  
 1 dekaliter = 10 liters = 2.64 gallons  
 1 hectoliter = 10 dekaliters = 26.42 gallons  
 1 kiloliter = 10 hectoliters = 264.18 gallons

### *Square Measure*

1 sq. centimeter = 100 sq. millimeters = .155 sq. inch  
 1 sq. decimeter = 100 sq. centimeters = 15.5 sq. inches  
 1 sq. meter (centare) = 100 sq. decimeters = 10.76 sq. feet  
 1 sq. dekameter (are) = 100 sq. meters = 1,076.4 sq. feet  
 1 sq. hectometer (hectare) = 100 sq. dekameters = 2.47 acres  
 1 sq. kilometer = 100 sq. hectometers = .386 sq. mile

### *Cubic Measure*

1 cu. centimeter = 1000 cu. millimeters = .06 cu. inch  
 1 cu. decimeter = 1000 cu. centimeters = 61.02 cu. inches  
 1 cu. meter = 1000 cu. decimeters = 35.31 cu. feet

## Approximate Conversion Factors

<i>To change</i>	<i>To</i>	<i>Multiply by</i>	<i>To change</i>	<i>To</i>	<i>Multiply by</i>
inches	centimeters	2.540	ounce-inches	Newton-meters	.007062
feet	meters	.305	centimeters	inches	.394
yards	meters	.914	meters	feet	3.280
miles	kilometers	1.609	meters	yards	1.094
square inches	square centimeters	6.451	kilometers	miles	.621
square feet	square meters	.093	square centimeters	square inches	.155
square yards	square meters	.836	square meters	square feet	10.764
square miles	square kilometers	2.590	square meters	square yards	1.196
acres	square hectometers	.405	square kilometers	square miles	.386
cubic feet	cubic meters	.028	square hectometers	acres	2.471
cubic yards	cubic meters	.765	cubic meters	cubic feet	35.315
fluid ounces	milliliters	29.573	cubic meters	cubic yards	1.308
pints	liters	.473	milliliters	fluid ounces	.034
quarts	liters	.946	liters	pints	2.113
gallons	liters	3.785	liters	quarts	1.057
ounces	grams	28.349	liters	gallons	.264
pounds	kilograms	.454	grams	ounces	.035
short tons	metric tons	.907	kilograms	pounds	2.205
pound-feet	Newton-meters	1.356	metric tons	short tons	1.102
pound-inches	Newton-meters	.11296			

## Temperature (Exact)

°F	Fahrenheit temperature	5/9 (after subtracting 32)	Celsius temperature	°C
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**PIN: 011479-000**