

DEPARTMENT OF THE ARMY SUPPLY BULLETIN

FILTER UNITS, GAS-PARTICULATE, EMD, 600 CFM, M9, M9A1; 1200 CFM, M10, M10A1; 2500 CFM, M11; 5000 CFM, M12: SERVICEABILITY STANDARD

Headquarters, Department of the Army, Washington, D. C.  
7 October 1964

**1. Purpose and Scope.** *a. Purpose.* This bulletin supplements SB 3-30 in providing the method for determining the serviceability of Filter Units, Gas-Particulate, EMD, 600 CFM, M9, M9A1; 1200 CFM, M10, M10A1; 2500 CFM, M11; and 5000 CFM, M12.

*b. Scope.* The provisions of this bulletin are applicable to all elements of the Department of the Army including oversea commands.

**2. Basis and Interval of Surveillance.** *a. Basis.* Conduct surveillance on the basis of manufacturer's lots.

*b. Interval.* Conduct surveillance at intervals not to exceed 2 years, except initial surveillance which shall be conducted within 1 year of manufacture.

*c. Reporting Forms.* Use DA Form 984 (Material Serviceability Report), DA Form 987 (Test Data Sheet, Serviceability of Materiel Other Than Burning Type Munitions), and DA Form 988 (Visual Inspection Sheet, Serviceability of Materiel).

**3. Sampling.** *a. Initial Surveillance.* Conduct surveillance on a unit basis. If the unit has been prepared for long term storage select one representative sample from a manufacturer's lot for inspection and test in accordance with paragraph 4.

*b. Second and Subsequent Surveillance.* Units of the same kind, type and model, previously determined

to be serviceable on a unit basis will be recombined into the original manufacturer's lot. Two representative samples will be selected from each reconstituted manufacturer's lot limited to one year's production, for inspection and test in accordance with paragraph 4. If the unit has been prepared for long term storage, continue to follow procedure for initial surveillance.

**4. Inspection.** Subject sample filter units to visual examination and functional tests.

*a. Visual Examination.* Examine sample filter units for the following:

- | Check points   | Type of defect |
|--|----------------|
| (1) Missing components (Use applicable TMs as guides for checking) .....   | I              |
| (2) Components damaged or corroded to an extent that would adversely affecting functioning .....   | I              |
| (3) Improperly mated components and/or subassemblies .....   | I              |
| (4) Components improperly secured, mounted or assembled .....  | I              |
| (5) Components of unit dirty, rusted (light coverage) or unpainted (electrical wiring, rubber components and nameplates should not be painted) ..... | II             |

TAGO 6108A-Oct

b. *Functional Test.*

(1) *Procedure.*

- (a) Release the strap and flexible tubing holder and extend the flexible tubing transition to its extreme length, keeping the tube coaxial with the filter.

(b) Connect the motor-blower assembly to a 220-volt, 3 phase, 60-cycle alternating current source and start the motor.

- (2) *Requirement.* The motor must run and the filter unit must deliver air without any noticeable trouble.

By Order of the Secretary of the Army:

Official:

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

HAROLD K. JOHNSON,  
*General, United States Army,  
Chief of Staff.*

Distribution:

*Active Army:*

ACSI (72)  
CofEngrs (1)  
CofT (1)  
CC-E (1)  
TSG (1)  
USCONARC (25)  
USAMC (25)  
USAMUCOM (25)  
OS Maj Comd (10)  
OS Base Comd (2)  
LOGCOMD (2)  
PMS Sr Div Units (1)  
GENDEP (OS) (1)  
Dep (OS) (1)

NG: State AG (3); Div (1).

USAR: None.


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

Army Dep (5)  
MDW (1)  
Armies (1)  
Corps (2)  
Div (5)  
Bde (2)  
Regt/gp/bat gp (2)  
Bn (1)  
Instl (2)  
Arsenals (1) except  
    CBR (3)  
    Edgewood (75)  
USAAPSA (60)

**AGO 6108A**

U. S GOVERNMENT PRINTING OFFICE: 1996-420-272/34367

RECOMMENDED CHANGES TO EQUIPMENT TECHNICAL PUBLICATIONS

 <p style="font-size: small; margin: 0;"><i>THEN...JOT DOWN THE DOPE ABOUT IT ON THIS FORM. CAREFULLY TEAR IT OUT, FOLD IT AND DROP IT IN THE MAIL.</i></p>		SOMETHING WRONG WITH PUBLICATION	
		FROM: (PRINT YOUR UNIT'S COMPLETE ADDRESS)	
		DATE SENT	
PUBLICATION NUMBER		PUBLICATION DATE	PUBLICATION TITLE
IN THIS SPACE, TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT.			
BE EXACT PIN-POINT WHERE IT IS			
PAGE NO.	PARA-GRAPH	FIGURE NO.	TABLE NO.
PRINTED NAME, GRADE OR TITLE AND TELEPHONE NUMBER		SIGN HERE	

## 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

To change	To	Multiply by	To change	To	Multiply by
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
----	------------------------	----------------------------	---------------------	----

PIN: 022669-000