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# AeroAntique

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(RESTRICTED)



COMPASSES  
INSTRUMENTS—NAVIGATION

**COMPASS—NAVIGATOR'S**  
ARMY TYPE D-12 F. S. S. C. NUMBER 88-C-845

**NAMES:** Navigator's compass  
Compass assembly—navigation  
Compass—top reading  
Compass, navigation (aircraft) long-period

**DESCRIPTION:** The Army type D-12 navigator's compass is aperiodic, and indicates magnetic north with no appreciable overshwing. A more complete description is given on page 262. It may be mounted on a table or on the floor.

**CHARACTERISTICS:**

Dimensions ..... approximately 4 $\frac{3}{4}$  inches high by 7 inches diameter  
Weight ..... approximately 6 $\frac{1}{4}$  pounds  
Dial size ..... 5 $\frac{3}{4}$  inches diameter  
Illumination ..... none  
**Markings:**  
Principal ..... radioactive material  
Minor ..... white paint



**ARMY**

A. E. REFERENCE NUMBER: 60-1400

**SPECIFICATIONS:**

General ..... 94-27180  
Detail ..... 94-27825

A. A. F. DRAWING NUMBER: 84B2148 (compensator assembly)

TYPE DESIGNATION: D-12

A. S. C. STOCK NUMBER: Refer to chart.

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

Dimensions of carton ..... approximately 12 by 12 by 9 inches  
Gross weight ..... approximately 9 pounds

**NAVY**

BUREAU OF AERONAUTICS DRAWING NUMBER: 898-SK

F. S. S. C. STOCK NUMBER: 88-C-845

PROCUREMENT STATUS: Standard. G. F. E.—Order through A. S. O. by F. S. S. C. number.

**ALL MODELS BELOW ARE INTERCHANGEABLE**  
Models are used in services as noted in column 4  
A—Army, N—Navy, B—British, C—Commercial

Manufacturer	Manufacturer's Model Identification	Manufacturer's Part and Drawing Number	Used By	Air Service Command Stock Number	Army Technical Order Number	British Reference Number	Remarks
	1801	1801-1A	A-N-B	6000099230	05-13-2	106A/428	
	1801A	1801A-1	A-B	6000099200	05-13-2	106A/428	
	1822	1822-1A	A-B	6000099230	05-13-2	106A/428	
	1822	1822-3A	N-B			106A/428	
	1826	1826-1A	N-B			106A/428	
Pioneer Instrument	1801	1801-3A	B-C			106A/428	



	1828	1828-2-A	B-C			106A/428	
	1802A	1802A-1	A-C	6000060000			Army type D-12, 4 1/2 inch diameter.
	1802	1802-1-A	A-B-C			106A/32	Army type D-12, 4 1/2 inch diameter.
	1802	1802-2-A	B-C			106A/32	4 1/2 inch diameter.
	1802	1802-2-B	B-C			106A/32	4 1/2 inch diameter.
Victor Adding Machine Co.	1801	1801-1-A-VA	A-B	6000099275	65-15-2	106A/428	

(RESTRICTED)  
265

Bendix

# Compass, Aperiodic, US Army Air Force Type D-12

\$75.00

Sold Out

The US Army Air Force Type D-12 Direct Reading Aperiodic Compass was used at the navigators station across many US WWII aircraft, including heavy bombers B-17, B-24, B-29, medium bombers B-25 and B-26, and transports C-46, C-47, and C-54. Made by Bendix, part number 1832-1-A, it has a serial number prefix of AF-45, indicative of a manufacturing year 1945.

The navigators' direct reading compass is known as an aperiodic (without a period) compass, since the needle returns to rest quickly and without appreciable overswing when deflected from its position. Radial arms or vanes attached to the card dampen the swing of the needle. This type of compass is mounted horizontally, and is read through a glass cover on the top. The compass consists primarily of a cylindrical metal bowl filled with compass fluid. In the center of the bowl is a semi-float type card to which are attached the magnetized needles and the radial arms. The card is marked with the four cardinal points, with an arrow indicating North. Inside the bowl, a fixed mark acts as the lubber's line. A graduated rotatable ring (verge), with two clamping screws, is fastened to the upper edge of the compass bowl. Across the inside of the ring are two horizontal, parallel white wires, spaced equally on either side of the N and S markings. In making readings, the ring is

turned until the two white wires are parallel to the North-South lines on the card. The airplane heading is read as the marking on the ring which is directly above the lubber's line. A box containing magnets which may be turned to compensate for deviation is located on the bottom of the compass.

This example no longer contains fluid, and the fill port on the bottom has a small crack. Otherwise, it is a fine example.

Measures ~7 inches diameter and ~4 inches in height.