



PRESSURE GAGES

These pressure instruments depend upon either the Bourdon tube or the diaphragm principle for their operation. The Bourdon tube, which is the type most commonly used, is a hollow curved metal tube. One end remains fixed to the instrument case, and the other end, which is sealed, is connected at the tip to the pointer on the dial of a gage by a linkage system.

The pressure of a gas or liquid entering the Bourdon tube tends to straighten the curve. Reduction of the pressure restores the tube to its original curved position. This movement of the tube is communicated to a calibrated scale on the gage, and is read in "pounds per square inch."

The Army-Navy standard, AN5771 and AN5772 has been set up for the following gages:

| AN Number | Function of Gage |
|-----------|------------------------------|
| AN5771-1 | Fuel pressure |
| AN5771-2 | Oil pressure |
| AN5771-3 | De-icing pressure |
| AN5771-4 | Hydraulic pressure |
| AN5771-6 | Automatic pilot oil pressure |
| AN5772-1 | Dual Fuel Pressure |
| AN5772-2 | Dual Oil Pressure |

ENGINE OIL AND AUTOMATIC PILOT OIL PRESSURE GAGES

Oil pressure gages are designed to withstand a pressure 50 percent to 200 percent greater than that which appears on the dial. This characteristic is referred to as the overpressure rating. A gage with a high overpressure rating may replace one with a lower range, but the reverse should not be attempted unless the overpressure requirements may be disregarded.

Engine oil gages indicate the pressure at which oil circulates through the lubrication system, and give an indication of the failure of any of the component units, which might be caused by defect or gunfire.

The oil gage which indicates lubricating oil pressure can also be used to measure and record the pressure of the hydraulic fluid in the servo system of the automatic pilot. However, when the instrument is used for this purpose, it is necessary to install an identification plate above the instrument on the panel.

FUEL PRESSURE GAGES

These gages measure the pressure differential between the fuel and air entering the carburetor intake. The fuel line is connected to the gage by tubing. Another inlet in the rear of the instru-

(Continued on Page 22)



PRESSURE GAGES

(Continued from Page 21)

ment admits air to the interior of the sealed instrument case. The difference in pressure between the air in the case and the fuel is indicated to the pointer of the gage.

Fuel gages indicating pressure on engines having internal superchargers do not require an air line from the carburetor. The air inlet is left open and the air pressure in the case is equal to the pressure in the cabin or cockpit.

HYDRAULIC PRESSURE GAGES

Hydraulic pressure gages indicate the pressure of the fluid used to operate the landing gear, wing flaps, bomb doors and other hydraulically operated equipment.

The face of the indicator was originally marked "Landing Gear," and another type was designated "Hydraulic Pressure." The current AN gage has "Pressure Pounds Per Square Inch" printed on the dial. Despite these variations in names, all the types serve the same purpose and can be installed to record pressure anywhere in the hydraulic system that an indication is required.

DE-ICING PRESSURE GAGES

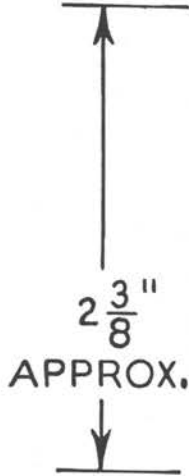
This gage indicates the pressure of the compressed air supplied by the air pump for the operation of the de-icer boots.

All of the foregoing instruments are the direct reading type.

AUTOSYN PRESSURE GAGES

Oil and fuel pressure gages of the remote indicating electrical type (autosyn) are also used. The principle of their operation is described on page 4.

Autosyn indicators are, generally, larger than, and not interchangeable with, direct reading gages. The mounting dimensions, however, are the same size. Complete substitution of assemblies (indicator and transmitter or lead) can be made where necessary, and where installation space permits.



GAGE—AUTOMATIC PILOT OIL PRESSURE

AN5771-6 FORMER ARMY TYPE H-2 F. S. S. C. NUMBER 88-G-875

NAMES: Automatic pilot oil pressure gage
Automatic pilot gage

Gage assembly—oil pressure

DESCRIPTION: This is a single, direct reading gage, in which the sensitive mechanism is the Bourdon tube. It indicates the pressure of the hydraulic fluid in the servo system of the automatic pilot.

CHARACTERISTICS:

- Range..... 0 to 300 pounds per square inch
- Over pressure..... none
- Pressure connection..... 1/8 inch pipe thread
- Weight..... approximately 7 ounces
- Dial size..... 1 7/8 inches
- Depth..... approximately 1 1/2 inches
- Markings..... fluorescent material

ARMY

A. E. REFERENCE NUMBER: 60-3120
SPECIFICATIONS:

- Detail..... 94-27920A
- Superseded..... 94-27920

AN DRAWING NUMBER: AN5771
AN PART NUMBER: AN5771-6, former Army type H-2

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

PRODUCTION STATUS: H-2 now under procurement. AN5771-6 not under procurement for initial installation. Will be purchased when supply of H-2 gages is exhausted.

SHIPPING DATA: Dimensions approximately 3 3/4 by 3 3/4 by 2 3/4 inches. Gross weight approximately 1/2 pound.

NAVY

TYPE DESIGNATION: AN5771-6

SPECIFICATIONS:

- Detail..... AN-G-2a
- Superseded..... AN-G-2

AN DRAWING NUMBER: AN5771

F. S. S. C. NUMBER: 88-G-875

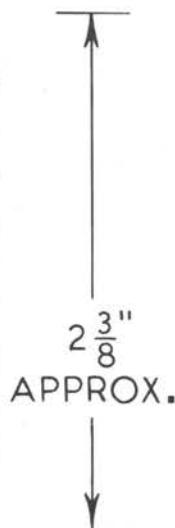
PROCUREMENT STATUS: Procurement initiated.

ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| The Electric Auto-Lite Co. | 10231-A | A-B | 6000107509 | 05-70-2 | 106J/660 |
| | 9753-A | A-B | 6000107505 | 05-70-2 | 106J/660 |
| | 10185-A | A-B | 6000107508 | 05-70-2 | 106J/660 |
| Manning, Maxwell & Moore, Inc. | 6719-94 | A-B | 6000107504 | 05-70-2 | 106J/660 |
| | 6713-04 | B-C | | | 106J/660 |
| United States Gauge Co. | AW-1 7/8-6-A | A-B | 6000107503-5 | 05-70-2 | 106J/660 |
| | AW-1 7/8-14-CK | A-B | 6000107503 | 05-70-2 | 106J/660 |



PRESSURE GAGES INSTRUMENTS—ENGINE



GAGE—DE-ICING PRESSURE

ARMY TYPE G-1

NAMES: De-icing pressure gage

Gage assembly—de-icing pressure

DESCRIPTION: This is a single, direct reading gage, in which the sensitive element is the Bourdon tube. It indicates the air pressure in the de-icing system.

CHARACTERISTICS:

- Range.....0 to 20 pounds per square inch
- Dial size.....approximately 1 7/8 inches
- Depth.....approximately 1 11/16 inches
- Pressure connection.....1/8 inch pipe thread
- Lighting.....individual, one wire, 3 volt
- Markings.....radioactive material
- Weight.....approximately 7 ounces

ARMY

A. E. REFERENCE NUMBER: 60-2400

SPECIFICATIONS:

Detail.....94-27841

TYPE DESIGNATION: G-1

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by Army type G-2, AN5771-3.

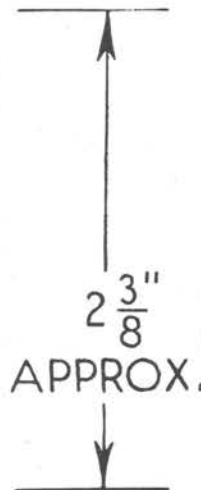
SHIPPING DATA: Shipped as a complete unit. Dimensions of carton approximately 3 3/4 by 3 3/4 by 2 3/4 inches. Gross weight approximately 1/2 pound.

NAVY

There is no Navy equivalent for this item.

MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| United States Gauge Co. | AW2-43 | A-B | 6000109500 | 05-70-2 | 106A/420 |
| Manning, Maxwell & Moore, Inc. | N948 | A-B | 6000109750 | 05-70-2 | 106A/420 |



GAGE—DE-ICING PRESSURE

AN5771-3 FORMER ARMY TYPE G-2 F. S. S. C. NUMBER 88-G-375

NAMES: De-icing pressure gage

Gage assembly—de-icing pressure

DESCRIPTION: Single, direct reading gage, in which the sensitive element is the Bourdon tube. It indicates the air pressure in the de-icing system.

CHARACTERISTICS:

- Weight approximately 7 ounces
- Dial size approximately 1 7/8 inches
- Depth approximately 1 1/2 inches
- Range 0 to 20 pounds per square inch
- Pressure connection Two—1/8 inch pipe thread
- Markings fluorescent material

ARMY

A. E. REFERENCE NUMBER: 60-2600

SPECIFICATIONS:

- Detail AN-G-2a
- Superseded AN-G-2; 94-27924-A; 94-27924

AN PART NUMBER: AN5771-3 (former Army type G-2)

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Under procurement. Supersedes Army type G-2, G-1.

SHIPPING DATA: Shipped as a complete unit.

- Dimensions of carton approximately 3 3/4 by 3 3/4 by 2 3/4 inches
- Gross weight approximately 1/2 pound

NAVY

SPECIFICATIONS:

- Detail AN-G-2a
- Superseded AN-G-2

AN DRAWING NUMBER: AN5771

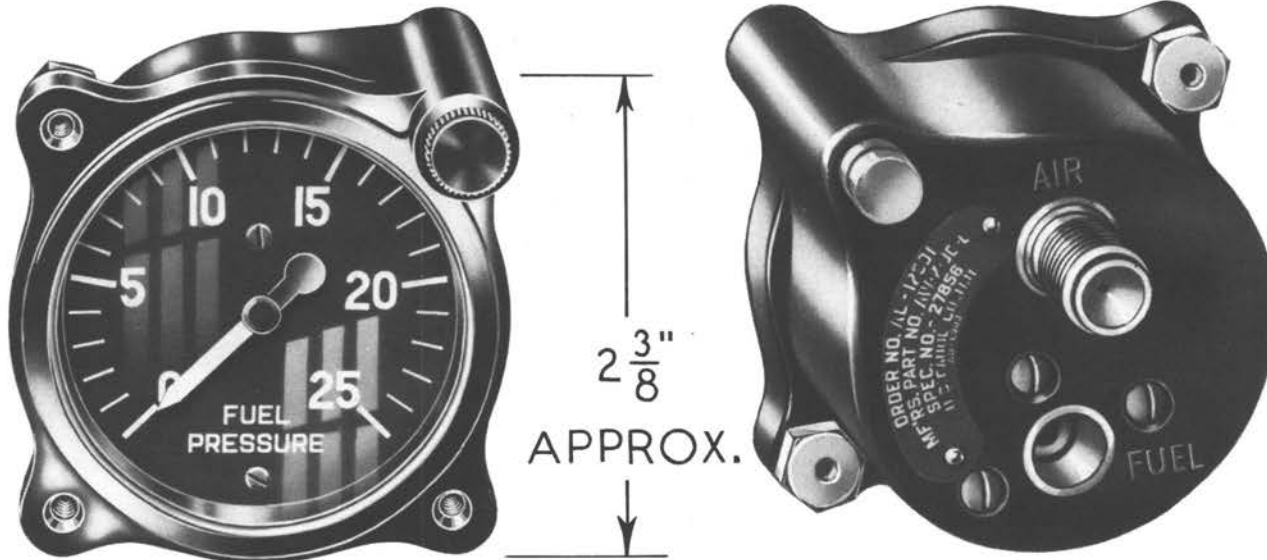
AN PART NUMBER: AN5771-3

F. S. S. C. STOCK NUMBER: 88-G-375

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 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| United States Gauge Co. | AW-17/8-16-AC | A-B | 6000110012 | 05-70-2 | 106A/1068 |
| | AW-17/8-16-N | A-B | 6000110015 | 05-70-2 | 106A/1068 |
| Manning, Maxwell & Moore, Inc. | 6753-109 | A-B | 6000110019 | 05-70-2 | 106A/1068 |
| | G75055 | N-B | | | 106A/1068 |
| Northern Engraving & Mfg. Co. | D-117 | N | | | |



GAGE—FUEL PRESSURE

ARMY TYPE C-10

NAMES: Fuel pressure gage
Gage assembly—fuel pressure

Gage—pressure—fuel

DESCRIPTION: Single, direct reading gage, in which the sensitive mechanism is the Bourdon tube. It is used to indicate fuel pressure.

CHARACTERISTICS:

- Weight.....approximately 7 ounces
- Dial size.....approximately 1 7/8 inches
- Depth.....approximately 1 11/16 inches
- Range.....0 to 25 pounds per square inch
- Pressure connection, fuel and vent.....1/8 inch pipe thread
- Lighting.....individual—one wire, three volts
- Markings.....radioactive material

ARMY

A. E. REFERENCE NUMBER: 61-2150

SPECIFICATIONS:

- Detail.....94-27856A
- Superseded.....94-27856

TYPE DESIGNATION: C-10

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Not under procurement for initial installation.

SHIPPING DATA: Shipped as a complete unit.

- Dimensions of carton.....approximately 3 3/4 by 3 3/4 by 2 3/4 inches
- Gross weight.....approximately 9 ounces

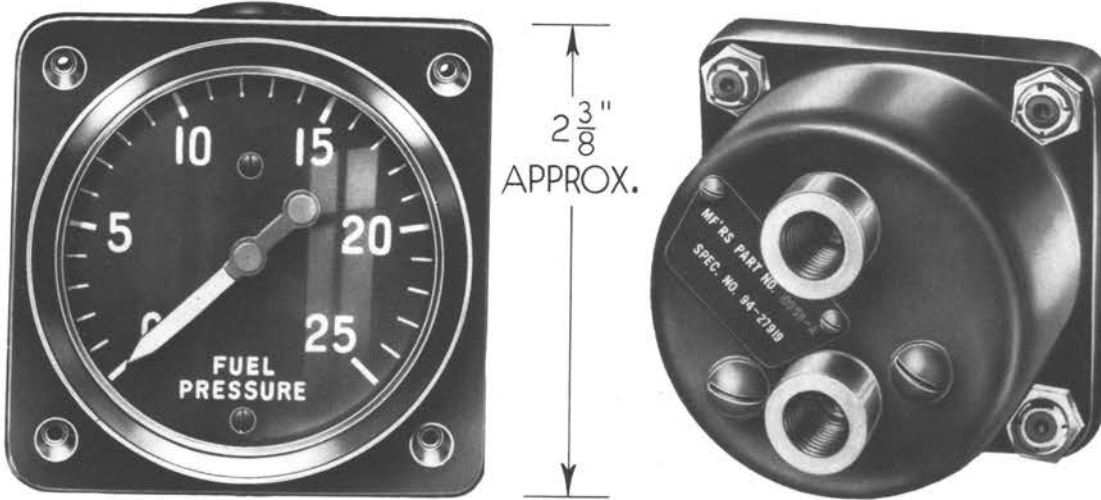
NAVY

There is no Navy equivalent for this item.

ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|-------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| United States Gauge Co. | AW2-36A | A-B | 6100118500 | 05-70-2 | 106A/76 |
| | AW2-36C | A-B | 6100118750 | 05-70-2 | 106A/76 |
| | AW2-36E | C-B | | | 106A/76 |
| | AW-17/8-15-K | C-B | | | 106A/76 |

**PRESSURE GAGES
INSTRUMENTS — ENGINE**



GAGE—FUEL PRESSURE

AN5771-1 FORMER ARMY TYPE C-13 F. S. S. C. NUMBER 88-G-518

NAMES: Fuel pressure gage Gage—pressure—fuel
Gage assembly—fuel pressure (single)

DESCRIPTION: This is a single, direct reading gage, in which the sensitive element is the Bourdon tube. It is used to indicate fuel pressure.

CHARACTERISTICS:

- Weight..... approximately 7 ounces
- Dial size..... approximately 1 7/8 inches
- Depth..... approximately 1 1/2 inches
- Range..... 0 to 25 pounds per square inch
- Pressure connection, fuel and vent..... 1/8 inch pipe thread
- Markings..... fluorescent material

ARMY

A. E. REFERENCE NUMBER: 61-2300
 SPECIFICATIONS:
 Detail..... AN-G-2a
 Superseded..... AN-G-2; 94-27919A
 AN DRAWING NUMBER: AN5771
 AN PART NUMBER: AN5771-1 (former Army type C-13)
 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 3 3/4 by 3 3/4 by 2 3/4 inches. Gross weight: approximately 9 ounces.

NAVY

SPECIFICATIONS:
 Detail..... AN-G-2a
 Superseded..... SQ-94
 AN DRAWING NUMBER: AN5771
 AN PART NUMBER: AN5771-1
 F. S. S. C. STOCK NUMBER: 88-G-518
 PROCUREMENT STATUS: Standard. G. F. E.
 —Order through A. S. O. by F. S. S. C. number.

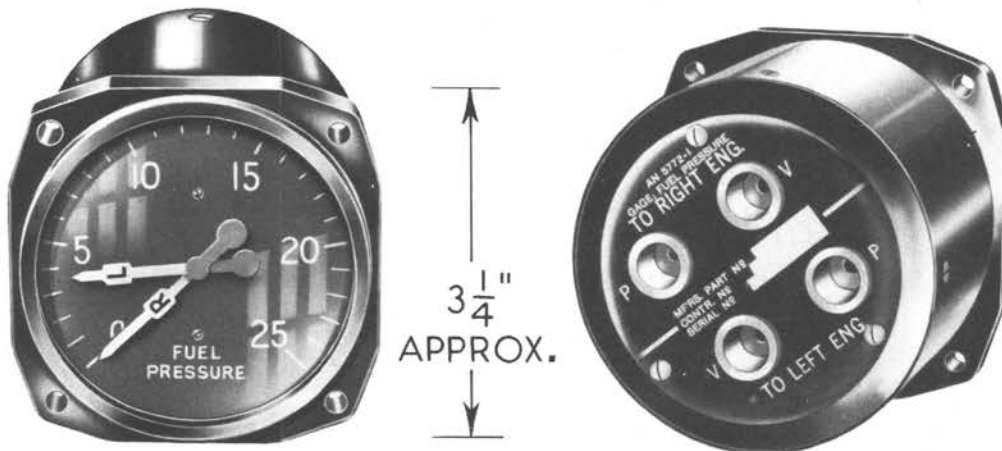
ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| The Electric Auto-Lite Co. | 10232-A | A-B | 6100113950 | 05-70-2 | 106A/69 |
| | 10098-A | A-B | 6100119268 | 05-70-2 | 106A/69 |
| United States Gauge Co. | AW-1 7/8-15-BP | A-B | 6100119263 | 05-70-2 | 106A/69 |
| | AW-1 7/8-2 | B | | | 106A/69 |
| | AW-1 7/8-15-AX | B | | | 106A/69 |
| | AW-1 7/8-15-BG | C-B | | | 106A/69 |
| Manning, Maxwell & Moore, Inc. | 6754-110 | A-B | 6100119265 | 05-70-2 | 106A/69 |
| Northern Engraving & Mfg. Co. | D-115 | N | | | |

TYPE INTERCHANGEABILITY
 Type AN5772-1 Dual gage. In an emergency it may be used in place of the AN5771-1 by connecting the engine to only one side of the gage.



PRESSURE GAGES INSTRUMENTS — ENGINE



GAGE—FUEL PRESSURE (DUAL)

AN 5772-1 F. S. S. C. NUMBER 88-G-480

NAMES: Dual fuel pressure gage
Fuel pressure gage (dual)
DESCRIPTION: This is a dual, direct reading gage, in which the sensitive element is the Bourdon tube. It is used to indicate fuel pressure.

Indicator assembly—fuel pressure gage (dual)
Gage—pressure—fuel

CHARACTERISTICS:

- Weight..... approximately 1 ¹/₈ pounds
- Dial size..... 2 ³/₄ inches
- Depth..... approximately 3 inches
- Range..... 0 to 25 pounds per square inch
- Pressure connection, fuel and vent..... ¹/₈ inch pipe thread
- Markings..... fluorescent

ARMY

A. E. REFERENCE NUMBER: 61-2326

SPECIFICATIONS:

- Detail..... AN-G-2a
- Superseded..... AN-G-2

AN DRAWING NUMBER: AN5772

AN PART NUMBER: AN5772-1

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 3 ³/₄ by 4 ¹/₈ by 4 ¹/₂ inches. Gross weight: approximately 1 ¹/₄ pounds.

NAVY

TYPE DESIGNATION: AN5772-1

SPECIFICATIONS:

- Detail..... AN-G-2a
- Superseded..... AN-G-2

AN DRAWING NUMBER: AN5772

F. S. S. C. STOCK NUMBER: 88-G-480

PROCUREMENT STATUS: Procurement initiated.

ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| Marshalltown Manufacturing Co. | 31855 | A-B | 6100133925 | 05-70E-2 | 106A/1335 |
| Ranco, Inc. | 31855 | A-B | 6100133925 | 05-70E-2 | 106A/1335 |
| | 31833 | A-B | 6100113900 | 05-70E-2 | 106A/1335 |
| American Meter Co., Inc. | M-18217 | A-B | 6100113886 | 05-70E-2 | 106A/1335 |
| | M-18314 | A-B | 6100113890 | 05-70E-2 | 106A/1335 |
| F. E. Olds | 31855 | A-B | 6100133925 | 05-70E-2 | 106A/1335 |
| United States Gauge Co. | AW-2 ³ / ₄ -40-A | A-B | 6100113882 | 05-70E-2 | 106A/1335 |



← 3 1/4" APPROX. →

INDICATOR—FUEL PRESSURE

ARMY TYPE C-14

NAMES: Autosyn fuel pressure indicator
Fuel pressure autosyn indicator

Indicator assembly—fuel pressure gage (dual)
Indicator—fuel pressure—electric—dual type (Navy)

DESCRIPTION: This is a dual indicator of the autosyn type, which receives its indications of fuel pressure from two transmitters located at the carburetor intake of the aircraft engines.

CHARACTERISTICS:

- Weight..... approximately 1 1/4 pounds
- Dial size..... approximately 2 3/4 inches
- Depth..... approximately 5 3/4 inches
- Range..... 0 to 20 pounds per square inch
- Electrical plug..... AN3106-16S-1S
- Markings..... fluorescent material

RELATIONSHIP OF PARTS: Used with: C-14 transmitter, A. E. Reference Number 61-2352.

ARMY

A. E. REFERENCE NUMBER: 61-2351

SPECIFICATIONS:

- Detail..... 94-27935-A
- Superseded..... 94-27935

TYPE DESIGNATION: C-14

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Under procurement.

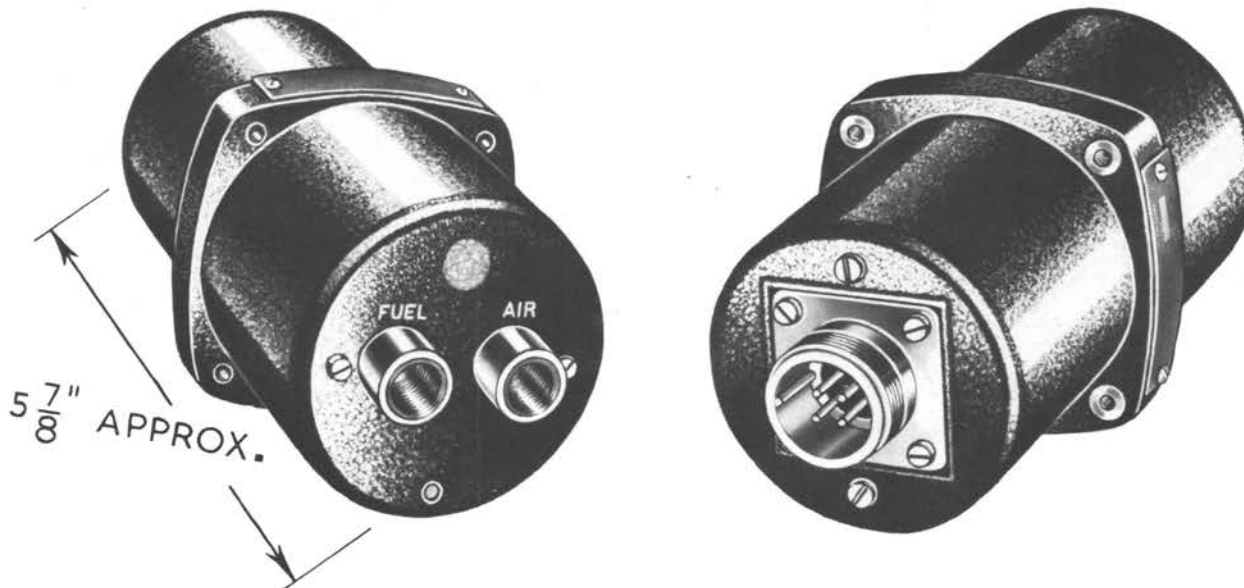
SHIPPING DATA: Shipped as a complete unit.

NAVY

There is no Navy equivalent for this item.

MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|-----------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| Pioneer Instrument Division | 6007-9B-7-A | A-B | 6100217620 | 05-55B-1 | 106A/783 |
| | 6007-9C-7-A | B-C | | | 106A/783 |



TRANSMITTER—FUEL PRESSURE
ARMY TYPE C-14

NAMES: Autosyn fuel pressure transmitter
Transmitter—fuel pressure—electric type (Navy) Fuel pressure transmitter—electrical
Transmitter fuel pressure gage

DESCRIPTION: Autosyn gage, used to transmit the recorded fuel pressure at the carburetor intake to an indicator located on the instrument panel.

CHARACTERISTICS:

Weight.....approximately 1 pound
Depth.....approximately 5 7/8 inches
Pressure connection.....(two) 1/8 inch pipe thread
Electrical plug.....AN3106-14S-2S

RELATIONSHIP OF PARTS: Used only with Army type indicator C-14, A. E. Reference Number 61-2351

ARMY

A. E. REFERENCE NUMBER: 61-2352

SPECIFICATIONS:

Detail.....94-27935-A
Superseded.....94-27935

TYPE DESIGNATION: C-14

MANUFACTURER'S DESIGNATION: Pioneer Instrument Division part and drawing number 4050-3-A3

A. S. C. STOCK NUMBER: 6100429515

TECHNICAL ORDER NUMBER: 05-55B-1

PRODUCTION STATUS: Under procurement.

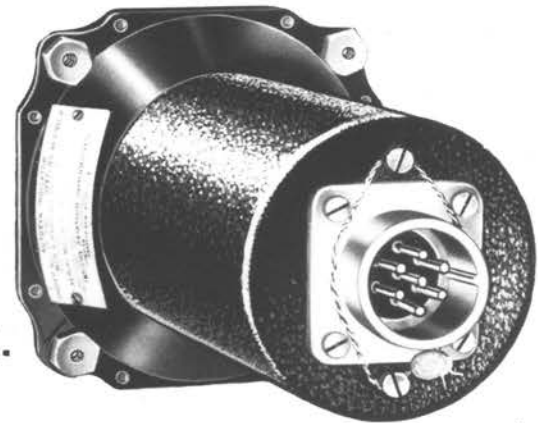
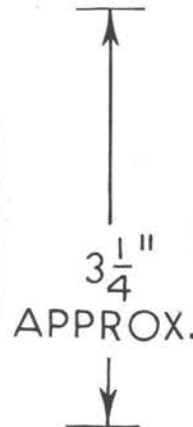
SHIPPING DATA: Shipped as a complete unit.

NAVY

There is no Navy equivalent for this item.

BRITISH

BRITISH REFERENCE NUMBER: 106A/1173



INDICATOR—FUEL PRESSURE

ARMY TYPE C-14A F. S. S. C. NUMBER 88-I-1220

NAMES: Autosyn fuel pressure indicator
Fuel pressure autosyn indicator

Indicator assembly—fuel pressure gage (dual)
Indicator—fuel pressure—electric—dual type (Navy)

DESCRIPTION: This is a dual indicator of the autosyn type, which receives its indications of fuel pressure from two transmitters located at the carburetor intake of the aircraft engines.

CHARACTERISTICS:

- Weight..... approximately 1 1/4 pounds
- Dial size..... approximately 2 3/4 inches
- Depth..... approximately 5 3/4 inches
- Range..... 0 to 25 pounds per square inch
- Electrical plug..... AN3106-16S-1S
- Markings..... fluorescent material

RELATIONSHIP OF PARTS: Used with Army type C-14A transmitter, A. E. Reference Number 61-2377.

ARMY

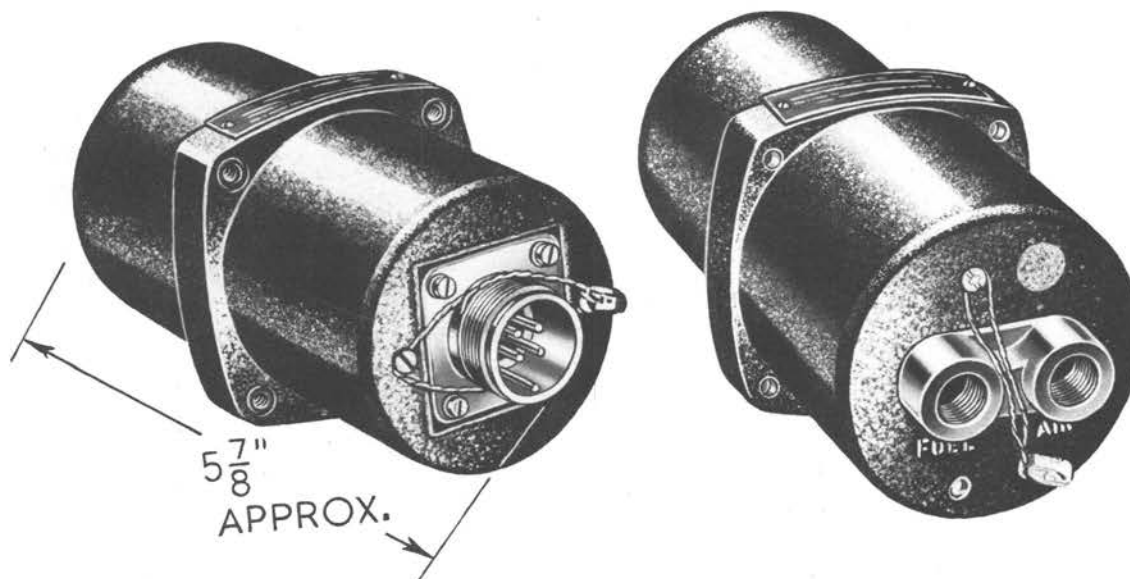
A. E. REFERENCE NUMBER: 61-2376
SPECIFICATIONS:
 Detail..... 94-27935-B
 Superseded..... 94-27935-A; 94-27935
TYPE DESIGNATION: C-14A
A. S. C. STOCK NUMBER: Refer to chart.
TECHNICAL ORDER NUMBER: Refer to chart.
PRODUCTION STATUS: Under procurement.
SHIPPING DATA: Shipped as a complete unit.

NAVY

SPECIFICATIONS
 Detail..... SQ-106
 Superseded..... SE-16
F. S. S. C. NUMBER: 88-I-1220
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 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | Remarks |
|-----------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|---|
| Pioneer Instrument Division | 6007-14E-7-A | A-N-B | 6100217680 | 05-55B-1 | 106A/1352 | Pointers finished in radium luminous material. |
| | 6007-14E-14-A | A-N-B | | 05-55B-1 | 106A/1352 | Pointers finished in fluorescent luminous material. |
| | 6007-14D-7-A | N-B | | | 106A/1352 | |
| | 6007-14D-1-B | N-B | | | 106A/1352 | |
| | 6007-14B-1-A | B-C | | | 106A/1352 | |
| | 6007-14C-6-A | B-C | | | 106A/1352 | |



TRANSMITTER—FUEL PRESSURE

ARMY TYPE C-14A F. S. S. C. NUMBER 88-T-2025

NAMES: Autosyn fuel pressure transmitter
Transmitter—fuel pressure—electric type (Navy) Fuel pressure transmitter—electrical
Transmitter fuel pressure gage (dual)

DESCRIPTION: This is an autosyn gage, which transmits the fuel pressure at the carburetor intake to an indicator located on the instrument panel.

CHARACTERISTICS:

- Range..... 0 to 25 pounds per square inch
- Weight..... approximately 1 pound
- Depth..... approximately 5 7/8 inches
- Pressure connection..... (two) 1/8 inch pipe thread
- Electrical plug..... AN3106-14S-2S

RELATIONSHIP OF PARTS:

Used only with Army type C-14A indicator, A. E. Reference Number 61-2376.

ARMY

A. E. REFERENCE NUMBER: 61-2377

SPECIFICATIONS:

- Detail..... 94-27935-B
- Superseded..... 94-27935-A, 94-27935

TYPE DESIGNATION: C-14A

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.

NAVY

TYPE DESIGNATION: C-14A

SPECIFICATIONS:

- Detail..... 94-27935-B
- Superseded..... 94-27935-A; SE-16

F. S. S. C. STOCK NUMBER: 88-T-2025

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

MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|-----------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| Pioneer Instrument Division | 4050-4-A4 | A-N-B | 6100429300 | 05-55B-1 | 106A/152 |
| | 4050-4-B4 | A-N-B | 6100429530 | 05-55B-1 | 106A/152 |



GAGE—HYDRAULIC PRESSURE—LANDING GEAR ARMY TYPE E-3

NAMES: Landing gear—hydraulic pressure gage Hydraulic pressure gage—landing gear
Gage assembly—hydraulic pressure—landing gear Gage—hydraulic pressure—alighting gear
Gage—pressure—landing gear

DESCRIPTION: Single, direct reading gage, in which the sensitive element is the Bourdon tube. The face of the dial has "Landing Gear" printed on it, but the gage can be used to indicate pressures any place in the hydraulic system.

CHARACTERISTICS:

Range.....0 to 2000 pounds per square inch
Pressure connection.....cone union
Weight.....approximately 1/2 pound
Dial size.....approximately 1 7/8 inches
Depth.....approximately 2 inches
Lighting.....individual, one wire, 3 volt
Markings.....radioactive material

ARMY

A. E. REFERENCE NUMBER: 60-2800

SPECIFICATIONS:

Detail.....94-27812B
Superseded.....94-27812A

TYPE DESIGNATION: E-3

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by types E-4 and AN5771-4.

SHIPPING DATA: Shipped as a complete unit. Dimensions of carton: approximately 3 3/4 by 3 3/4 by 2 3/4 inches. Gross weight: approximately 1/2 pound.

NAVY

TYPE DESIGNATION: There is no Navy equivalent for the Army item.

ALL MODELS BELOW ARE INTERCHANGEABLE Models are used in services as noted in column 3 A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | Remarks |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|---|
| Manning, Maxwell & Moore, Inc. | N-943-CC | A-B | 6000122490 | 05-70-2 | 106A/81 | Does not use resistor for rim lighting. |
| | N-943-F | A-B | 6000122500 | 05-70-2 | 106A/81 | Does not use resistor for rim lighting. |
| United States Gauge Co. | AW-2-34-C | A-B | 6000122275 | 05-70-2 | 106A/81 | |
| | AW-2-34 | A-B | 6000122000 | 05-70-2 | 106A/81 | |
| | AW-2-34-A | A-B | 6000122250 | 05-70-2 | 106A/81 | |
| | AW-1 7/8-17-E | C-B | | | 106A/81 | |
| | AW-1 7/8-17-H | C-B | | | 106A/81 | |
| | AW-1 7/8-17-BS | C-B | | | 106A/81 | |
| | AW-2-34-D | C-B | | | 106A/81 | |

PRESSURE GAGES
INSTRUMENTS—ENGINE



GAGE—OIL PRESSURE (DUAL)

AN5772-2 FORMER ARMY TYPE B-10

NAMES: Dual oil pressure gage Gage—pressure—oil (Navy)
Indicator assembly—oil pressure gage (dual)

DESCRIPTION: This is a dual, direct reading gage, in which the sensitive mechanism is a Bourdon tube. It indicates oil pressure in the lubrication system of multi-engined airplanes.

CHARACTERISTICS:

- Range..... 0 to 200 pounds per square inch
- Overpressure..... 600 pounds per square inch
- Pressure connection..... 1/8 inch pipe thread
- Weight..... approximately 1 1/4 pounds
- Dial size..... approximately 2 3/4 inches
- Depth..... approximately 3 inches
- Markings..... fluorescent material

RELATIONSHIP OF PARTS: To be used with two transmitters, Army type A-1.

ARMY

A. E. REFERENCE NUMBER: 61-2851

SPECIFICATIONS: Detail..... AN-G-2

AN DRAWING NUMBER: AN5772

TYPE DESIGNATION: AN5772-2 (B-10)

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 3 3/4 by 4 1/8 by 4 1/2 inches

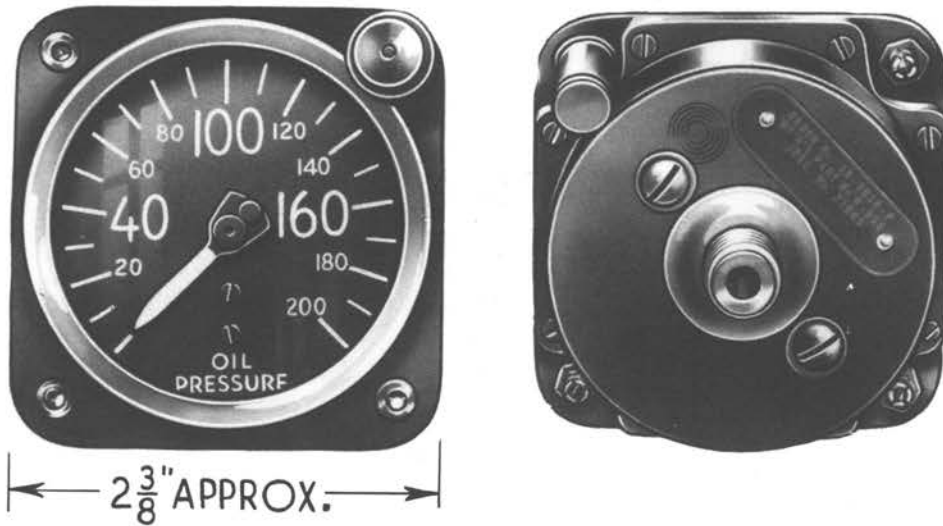
Gross weight..... approximately 1 pound 6 ounces

NAVY

TYPE DESIGNATION: There is no Navy equivalent for this item.

ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| Manning, Maxwell & Moore, Inc. | 6760-160 | A-B | | 05-70B-1 | 106A/1336 |
| Fischer Corp. | | A-B | | 05-70B-1 | 106A/1336 |
| Ranco, Inc. | 31848 | A-B | 6100126548-5 | 05-70B-1 | 106A/1336 |
| The Electric Auto-Lite Co. | 10226-A | A-B | 6100127745-4 | 05-70B-1 | 106A/1336 |



GAGE—OIL PRESSURE
ARMY TYPE B-5

NAMES: Oil pressure gage
Gage assembly—oil pressure (single)

Gage—pressure—oil (Navy)

DESCRIPTION: This is a single, direct reading gage, in which the sensitive mechanism is the Bourdon tube. It indicates the oil pressure in the lubrication system.

CHARACTERISTICS:

- Range..... 0-200 pounds per square inch
- Overpressure..... 300 pounds per square inch
- Pressure connection..... cone union
- Weight..... approximately 7 ounces
- Dial size..... approximately 1 7/8 inches
- Depth..... approximately 1 1/2 inches
- Lighting..... individual—one wire, 3 volt
- Markings..... radioactive material

ARMY

A. E. REFERENCE NUMBER: 61-2900

SPECIFICATIONS:

- Detail..... 94-27809A
- Superseded..... 94-27809

TYPE DESIGNATION: B-5

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by Army type B-8, B-8A, AN5771-2.

SHIPPING DATA:

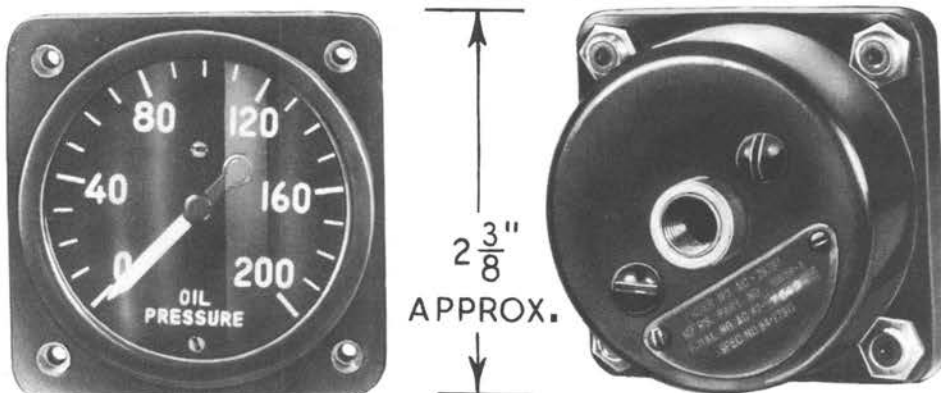
- Dimensions of carton..... approximately 3 3/4 by 3 1/4 by 2 3/4 inches
- Gross weight..... approximately 1/2 pound

NAVY

There is no Navy equivalent for this item.

ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A—Army, N—Navy, B—British, C—Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| United States Gauge Co. | AW2-37 | B-A | 6100131000 | 05-70-2 | 106A/75 |
| | AW2-37A | B-C | | | 106A/75 |
| | AW-1 7/8-14-R | B-C | | | 106A/75 |
| | AW-1 7/8-14-W | B-C | | | 106A/75 |
| Manning, Maxwell & Moore, Inc. | N-955 | A-B | 6100131250 | 05-70-2 | 106A/75 |
| | N-955A | A-B | 6100131260 | 05-70-2 | 106A/75 |
| The Electric Auto-Lite Co. | 9756-A | A-B | 6100113855 | 05-70-2 | 106A/75 |



GAGE—OIL PRESSURE

AN5771-2 FORMER ARMY TYPE B-8A F. S. S. C. NUMBER 88-G-855

NAMES: Oil pressure gage Gage assembly—oil pressure (single)
Gage—pressure oil (Navy)

DESCRIPTION: Single, direct reading gage, in which the sensitive mechanism is the Bourdon tube. It indicates the oil pressure in the lubrication system.

CHARACTERISTICS:

| | |
|--------------------------|------------------------------|
| Range..... | 0-200 pounds per square inch |
| Overpressure..... | 600 pounds per square inch |
| Pressure connection..... | 1/8 inch pipe thread |
| Weight..... | approximately 7 ounces |
| Dial size..... | approximately 1 7/8 inches |
| Depth..... | approximately 1 1/2 inches |
| Markings..... | fluorescent material |

ARMY

A. E. REFERENCE NUMBER: 61-3050

SPECIFICATIONS:

| | |
|-----------------|------------------|
| Detail..... | AN-G-2a |
| Superseded..... | AN-G-2; 94-27917 |

AN DRAWING NUMBER: AN5771

TYPE DESIGNATION: AN5771-2 (former Army type B-8A)

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Under procurement. Supersedes Army types B-8A, B-8, B-5, B-2.

SHIPPING DATA:

| | |
|---------------------------|--|
| Dimensions of carton..... | approximately 3 3/4 by 3 3/4 by 2 3/4 inches |
| Gross weight..... | approximately 1/2 pound |

NAVY

SPECIFICATIONS:

| | |
|-----------------|---------------|
| Detail..... | AN-G-2a |
| Superseded..... | AN-G-2; SQ-99 |

AN DRAWING NUMBER: AN5771

AN PART NUMBER: AN5771-2

F. S. S. C. STOCK NUMBER: 88-G-855

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

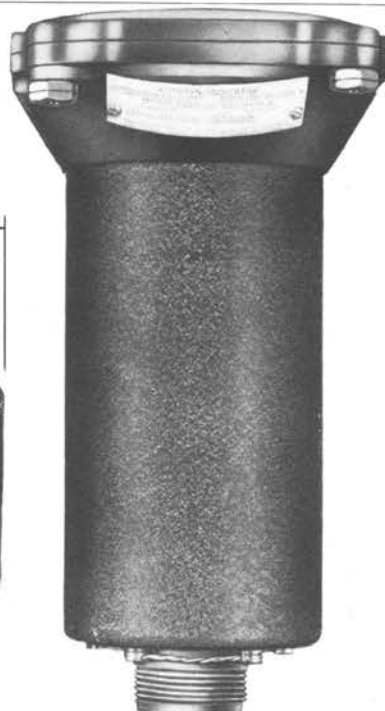
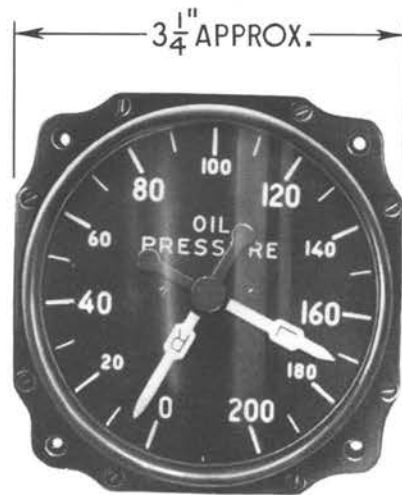
ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|-------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| United States Gauge Co. | AW-17/8-14-CL | A-N-B | 6100126779-7 | 05-70-2 | 106A/1294 |
| | AW-17/8-14-CZ | A-N-B | 6100126779-75 | 05-70-2 | 106A/1294 |
| The Electric Auto-Lite Co. | 10059-A | A-N-B | 6100131865 | 05-70-2 | 106A/1294 |
| | 10228-A | A-N-B | 6100127745-5 | 05-70-2 | 106A/1294 |
| Northern Engraving & Mfg. Co. | D-103 | N | | | |

TYPE INTERCHANGEABILITY:

Type
AN5771-2, formerly
Army Type B-10

Dual gage. In an emergency, it may be used in place of the AN5771-1 if one side only is connected to the lubrication system of one engine.



INDICATOR—OIL PRESSURE
ARMY TYPE B-9A ARMY TYPE B-9 F. S. S. C. NUMBER 88-I-1820

NAMES: Autosyn oil pressure indicator
Oil pressure indicator—autosyn

Indicator assembly—oil pressure gage (dual)
Indicator—oil—pressure electric type (dual)

DESCRIPTION: These autosyn dual indicators receive electrical signals from remotely located transmitters to indicate the oil pressure in the lubrication systems on multi-engine airplanes.

The B-9 and B-9A indicators are identical. The transmitters to which they are related differ in their over pressure ratings.

CHARACTERISTICS:

- Range..... 0 to 200 pounds per square inch
- Weight..... approximately 1 pound
- Dial size..... approximately 2 3/4 inches
- Depth..... approximately 5 3/4 inches
- Electrical plug..... AN3106-16S-1S
- Markings..... fluorescent material

ARMY

A. E. REFERENCE NUMBER: 61-3201

SPECIFICATIONS:

- Detail..... 94-27934-A
- Superseded..... 94-27934

TYPE DESIGNATION: B-9A and B-9

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.

NAVY

SPECIFICATIONS: Detail.....SE-15

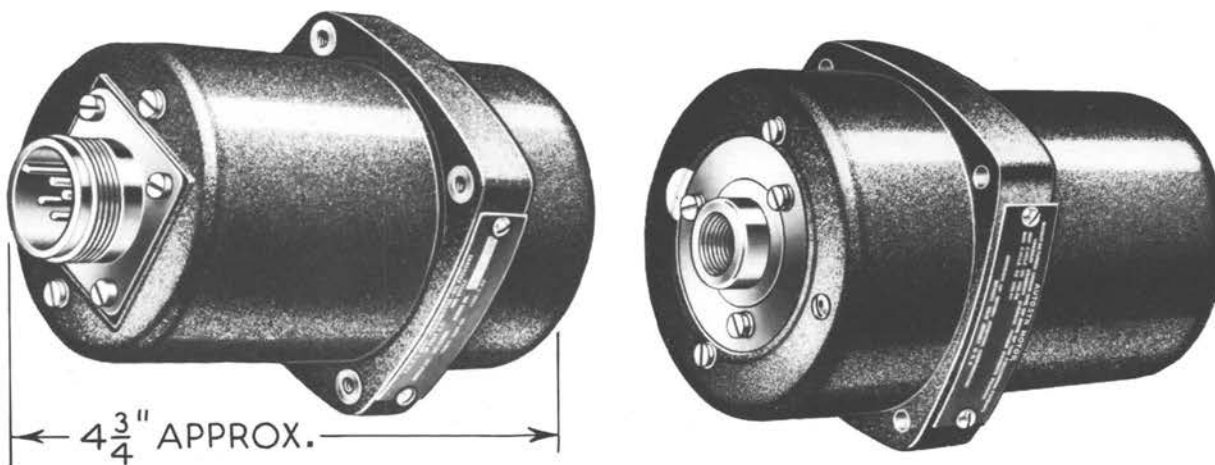
F. S. S. C. NUMBER: 88-I-1820

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 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | Army Type | Overpressure (pounds per square inch) |
|-----------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|-----------|---------------------------------------|
| Pioneer Instrument Division | 6007-4E-7-A | A-N-B | 6100224645 | 05-55B-1 | 106A/931 | B-9 | 400 |
| | 6007-4H-7-A | A-N-B | 6100224675 | 05-55B-1 | 106A/1267 | B-9A | 600 |
| | 6007-4H-14-A | A-N-B | 6100224688 | 05-55B-1 | 106A/1267 | B-9A | 600 |
| | 6007-4F-7A | N-B | | | 106A/1267 | B-9A | 600 |
| | 6007-4C-1-A | B-C | | | 106A/1267 | B-9A | 600 |
| | 6007-4D-6-A | B-C | | | 106A/1267 | B-9A | 600 |
| | 6007-4G-7-A | B-C | | | 106A/1267 | B-9A | 600 |



TRANSMITTER—OIL PRESSURE

ARMY TYPE B-9A ARMY TYPE B-9 F. S. S. C. NUMBER 88-T-2550

NAMES: Autosyn oil pressure transmitter
Oil pressure transmitter—autosyn

Transmitter—oil pressure gage (dual)
Transmitter—oil pressure—electric type

DESCRIPTION: These are autosyn gages which electrically transmit the oil pressure in the lubrication system on multi-engine airplanes to indicators located on the instrument panel.
The B-9 and B-9A are identical except for the difference in over pressure ratings.

CHARACTERISTICS:

- Range..... 0 to 200 pounds per square inch
- Overpressure..... 400 pounds per square inch for B-9
- Overpressure..... 600 pounds per square inch for B-9A
- Pressure connection..... 1/8 inch pipe thread
- Weight..... approximately 1 pound
- Depth..... approximately 4 3/4 inches
- Electrical plug..... AN3106-14S-2S

RELATIONSHIP OF PARTS: Used with:

Army type B-9A and B-9 indicators, A. E. Reference Number 61-3201

ARMY

A. E. REFERENCE NUMBER: 61-3202

SPECIFICATIONS:

- Detail..... 94-27934A
- Superseded..... 94-27934

TYPE DESIGNATION: B-9A and B-9

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.

NAVY

SPECIFICATIONS: Detail.....SE-15

F. S. S. C. NUMBER: 88-T-2550

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 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | Army Type | Overpressure (pounds per square inch) |
|-----------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|-----------|---------------------------------------|
| Pioneer Instrument Division | 4150-3-A3 | A-N-B | 6100433515 | 05-55B-1 | 106A/176 | B-9 | 400 |
| | 4150-3-B3 | A-N-B | 6100433560 | 05-55B-1 | 106A/1337 | B-9A | 600 |



MANIFOLD PRESSURE GAGES

The manifold pressure gage is used to indicate the pressure of the fuel-air mixture in the engine intake system. This information is needed to prevent over-supercharging at low altitudes, or loss of power at high altitudes. It serves as a guide for adjusting the supercharger regulator to the needs of the aircraft power plant. Its use eliminates the need for throttle stops.

The earliest type gage consisted of an airtight case containing a sealed, sensitive, metal diaphragm or aneroid, from which air had been evacuated. Air from the intake manifold entered the instrument case and surrounded the diaphragm. The difference in pressure between the air in the diaphragm and the air in the case was transmitted to the face of the dial by a linkage system, and read in "inches of mercury." This type of manifold pressure gage is identical with the altimeter, except that the altimeter reading is in "feet" instead of "inches of mercury."

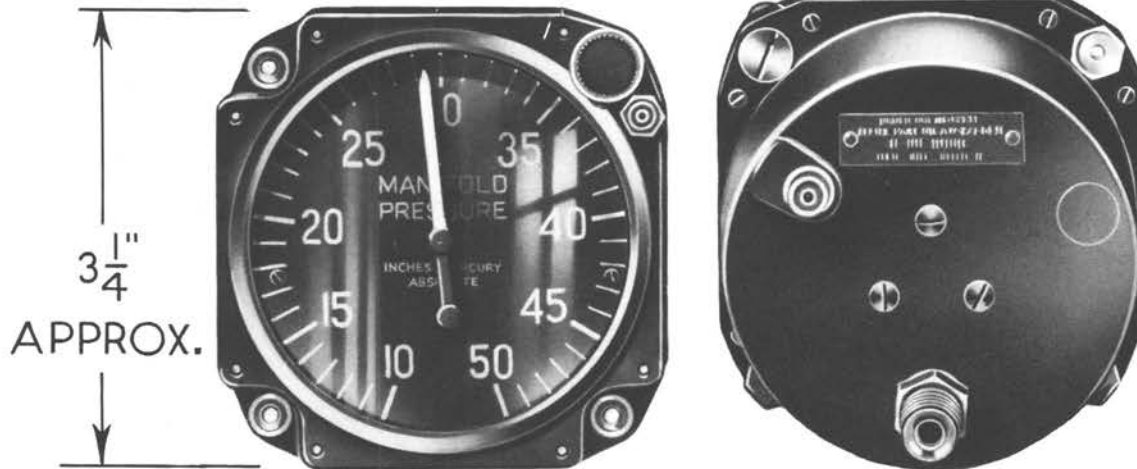
The manifold pressure gage in current use contains two diaphragms, shaped like bellows. One bellows, from which air has been removed, is sealed; the other receives air from the intake manifold. The two bellows oppose each other, and their pressure differential is recorded on the instrument dial. In this design, dirt, oil and foreign matter from the engine are kept out of contact with the mechanism which moves the pointer on the dial.

A third type is the "autosyn," or remote indicating electrical manifold pressure gage. This gage consists of a transmitter, located on the intake manifold, which indicates the manifold pressure to a gage on the instrument panel. The autosyn principle is described on Page 4 of this section.

Manifold pressure gages may be either single or dual. They vary in methods of lighting, and in the range of the instrument. The following general rules on interchangeability should be observed:

- A—Direct reading gages are not interchangeable with autosyn instruments.
- B—A gage having a long range may be used in place of the instrument with a shorter range. No gage having a lower range than is originally specified should be installed.
- C—A gage having fluorescent markings illuminated by an external ultra-violet light is not interchangeable with one which is individually lighted.
- D—Single gages cannot be used in the place of dual gages. In an emergency, the dual gage may replace a single gage, providing one side of the dual gage remains disconnected.

MANIFOLD PRESSURE GAGES INSTRUMENTS—ENGINE



3 1/4"
APPROX.

GAGE—MANIFOLD PRESSURE

ARMY TYPE D-2 F. S. S. C. NUMBER 88-G-760

NAMES: Manifold pressure gage

Gage assembly—manifold pressure (single)

DESCRIPTION: This is a single, direct reading gage, the internal diaphragm of which is of aneroid type of construction.

CHARACTERISTICS:

| | |
|----------------------------|---|
| Range | 10 to 50 inches of mercury |
| Dial size | 2 3/4 inches |
| Depth | approximately 3 inches |
| Weight | approximately 3/4 pound |
| Pressure connections | cone union and 1/8 inch pipe thread |
| Lighting | individual; 1 wire, 3 volt lamp |
| Markings | Major—radioactive, luminous Minor—dull white |

ARMY

A. E. REFERENCE NUMBER: 61-2450

SPECIFICATIONS:

| | |
|------------------|------------|
| Detail | 94-27811-A |
| Superseded | 27811 |

TYPE DESIGNATION: D-2

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

TECHNICAL ORDER NUMBER: Refer to chart

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by types D-9, D-10 and AN5770-1.

SHIPPING DATA:

| | |
|----------------------------|--|
| Dimensions of carton | approximately 7 by 4 1/2 by 4 1/2 inches |
| Gross weight | approximately 1 1/4 pounds |

NAVY

TYPE DESIGNATION: Mark 1A

N. A. F. DRAWING NUMBER: 39965

N. A. F. PART NUMBER: 39965-1

F. S. S. C. NUMBER: 88-G-760

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

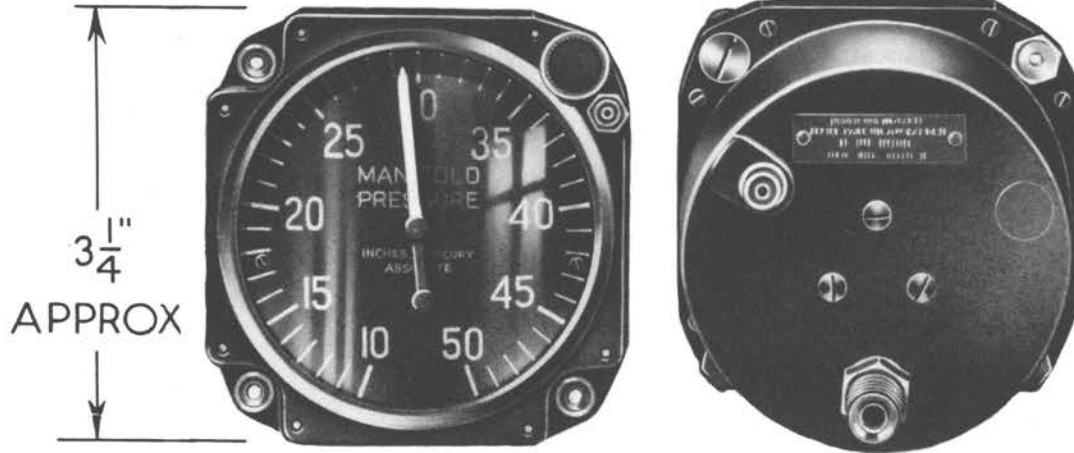
Superseded by 88-G-700 and 88-G-773.

ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A—Army, N—Navy, B—British, C—Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | F. S. S. C. Number |
|------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|--------------------|
| United States Gage Co. | AW-23/4-14 | A-N-B | 6100124750 | 05-70-1 | 106A/542 | |
| | AW-23/4-14-A | A-N-B | 6100124750 | 05-70-1 | 106A/542 | |
| | AW-23/4-14-E | A-N-B | 6100124765 | 05-70-1 | 106A/542 | |
| | AW-23/4-14-P | N-B | | | 106A/542 | 88-G-760 * |
| | AW-23/4-14-B | B-C | | | 106A/542 | |

*Dial has radioactive markings, but has no individual lighting.

MANIFOLD PRESSURE GAGES INSTRUMENTS—ENGINE



GAGE—MANIFOLD PRESSURE ARMY TYPE D-9 F. S. S. C. NUMBER 88-G-700

NAMES: Manifold pressure gage
DESCRIPTION: This is a single, direct reading gage, the diaphragm, of which is of aneroid type of construction.
CHARACTERISTICS:

| | |
|--------------------------|----------------------------|
| Weight..... | approximately 1 pound |
| Dial size..... | 2¾ inches |
| Depth..... | approximately 3 inches |
| Range..... | 10 to 50 inches of mercury |
| Pressure connection..... | ½ inch pipe thread |
| Markings: | |
| Major..... | radioactive |
| Minor..... | phosphorescent |

ARMY

A. E. REFERENCE NUMBER: 61-2600
SPECIFICATIONS:
 Detail..... 94-27937-A
 Superseded..... 94-27937
TYPE DESIGNATION: D-9
A. S. C. STOCK NUMBER: Refer to chart.
TECHNICAL ORDER NUMBER: Refer to chart.
PRODUCTION STATUS: Not under procurement for initial installation. Superseded by type D-10 and AN5770-1.
SHIPPING DATA: Shipped as a complete unit.
 Dimensions of carton... approximately 7 by 4½ by 4½ inches
 Gross weight..... approximately 1 pound 5 ounces

NAVY

SPECIFICATIONS:
 Detail..... SQ-108
BUAER DRAWING NUMBER: 7267
F. S. S. C. NUMBER: 88-G-700
PROCUREMENT STATUS: Standard. G. F. E.—
 Order through A. S. O. by F. S. S. C. number.
 Superseded by 88-G-773.

ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

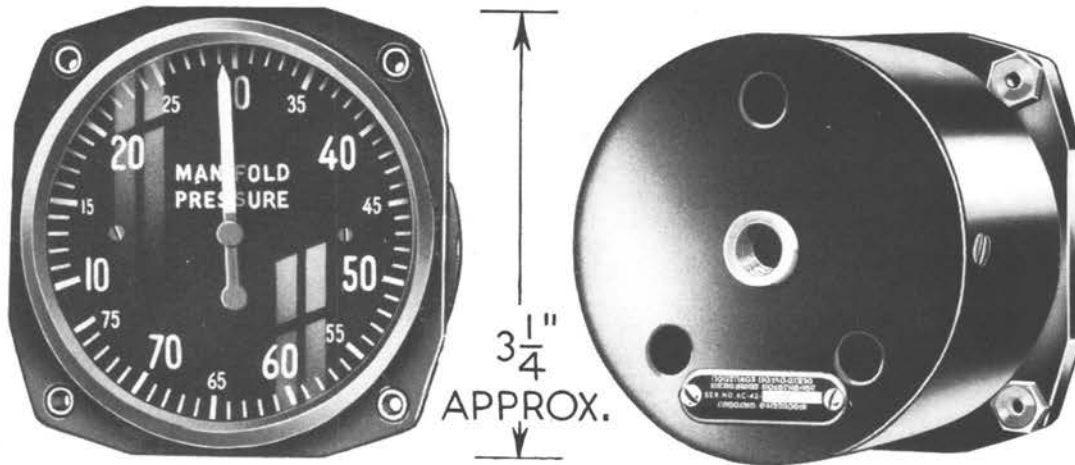
| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | F. S. S. C. Number | Army Type | Remarks |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|--------------------|-----------|--|
| Manning, Maxwell & Moore, Inc. | 6740-88 | A-N-B | 6100126515 | 05-70C-1 | 106A/68 | 88-G-700 | D-9 | |
| | 6742-90 | A-N-B | 6100126517 | 05-70C-1 | 106A/68 | 88-G-700 | D-9 | |
| | 6741-89 | N-B | | | 106A/68 | 88-G-700 | | Cut out panel for dial adjustment. |
| | 6742-126 | B-C | | | 106A/68 | | | |
| Pioneer Instrument Division | 1919-1R-A1 | A-N-B | 6100126513 | 05-70D-1 | 106A/68 | 88-G-700 | D-9 | |
| | 1919-1Q-A1 | A-N-B | 6100126524 | 05-70D-1 | 106A/68 | 88-G-700 | D-9 | |
| | 1925-1K-A1 | N-B | | | 106A/68 | 88-G-1080 | | All markings in radioactive material. |
| | 1925-1M-A1 | N-B | | | 106A/68 | 88-G-1080 | | All markings in phosphorescent material. |
| | 1919-1B | B-C | | | 106A/68 | | | |
| | 1919-1C | B-C | | | 106A/68 | | | |
| United States Gauge Co. | AW-2¾-25-G | N-B | | | 106A/68 | 88-G-700 | | |
| Kollsman Instrument Division | 611KN-03 | N-B | | | 106A/68 | 88-G-700 | | |
| | 611KN-02 | N-B | | | 106A/68 | 88-G-700 | | |

TYPE INTERCHANGEABILITY:

| | |
|--|--|
| Type AN5770-1 former Army Type D-10 | Same except for difference in dial markings and inner construction. |
| AN5770-2 former Army Type D-11 | Dual gage. Can be used in place of D-9 by connecting engine to one side of gage. |



MANIFOLD PRESSURE GAGES INSTRUMENTS—ENGINE



GAGE—MANIFOLD PRESSURE

AN5770-1 FORMER ARMY TYPE D-10 F. S. S. C. NUMBER 88-G-773

NAMES: Manifold pressure gage

Gage assembly—manifold pressure (single)

DESCRIPTION: This is a single direct reading gage, the diaphragm of which is of opposed bellows construction.

CHARACTERISTICS:

| | |
|---------------------------|----------------------------|
| Weight | approximately 1 pound |
| Dial size | 2 3/4 inches |
| Depth | approximately 3 inches |
| Range | 10 to 75 inches of mercury |
| Pressure connection | 1/8 inch pipe thread |
| Markings | fluorescent material |

ARMY

A. E. REFERENCE NUMBER: 61-2750

SPECIFICATIONS:

- Detail
- Superseded
- AN DRAWING NUMBER: AN5770
- AN PART NUMBER: AN 5770-1 (former Army type D-10)

A. S. C. STOCK NUMBER: Refer to chart.
 TECHNICAL ORDER NUMBER: Refer to chart.
 PRODUCTION STATUS: Under procurement.

Supersedes types D-2 and D-9.
SHIPPING DATA: Shipped as a complete unit.
 Dimensions of carton .. approximately 3 3/4 by 4 1/2
 by 4 1/2 inches
 Gross weight

NAVY

SPECIFICATIONS:

- Detail
- Superseded
- AN DRAWING NUMBER: AN5770
- AN PART NUMBER: AN5770-1
- F. S. S. C. STOCK NUMBER: 88-G-773
- PROCUREMENT STATUS: Standard; G. F. E.—
Order through A. S. O. by F. S. S. C. number.
Supersedes 88-G-700 and 88-G-760.

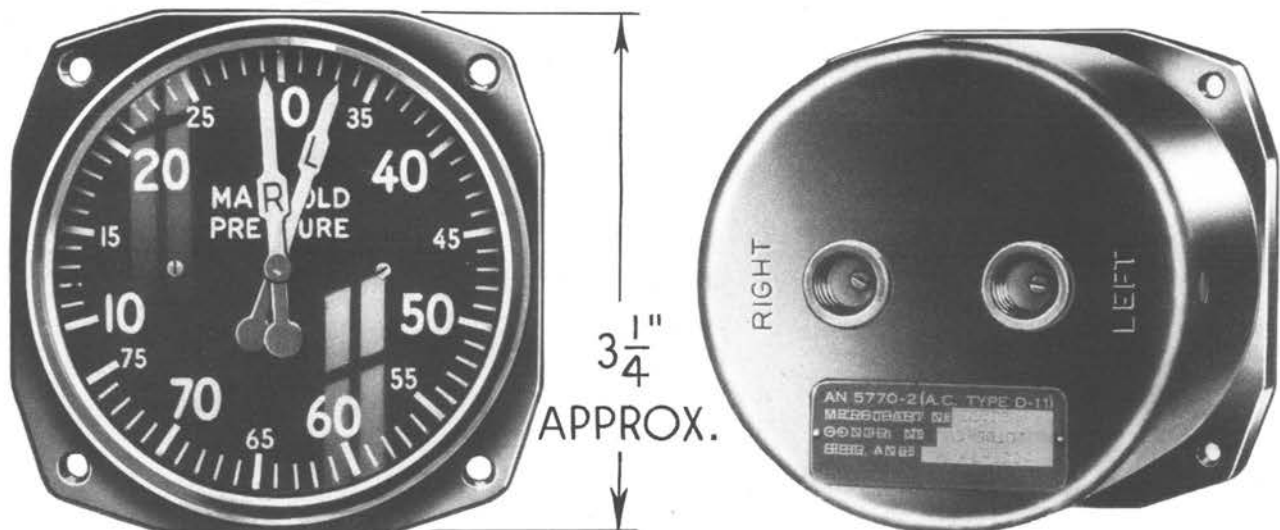
ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | F. S. S. C. Number |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|--------------------|
| Manning, Maxwell & Moore, Inc. | 6748-180 | A-N-B | 6100126527-23 | 05-70C-1 | 106A/1085 | 88-G-773 |
| | 6743-108 | A-N-B | 6100126527 | 05-70C-1 | 106A/1085 | 88-G-773 |
| | 6748-157 | A-N-B | 6100126527-2 | 05-70C-1 | 106A/1085 | 88-G-773 |
| | 6743-159-A | N-B | | | 106A/1085 | 88-G-773 |
| | 6749-180 | N-B | | | 106A/1085 | 88-G-773 |
| Ranco, Inc. | 31853 | A-B | 6100126527-5 | 05-70E-1 | 106A/1085 | |
| Fee and Stemwedel | FS18312 | A-B | 6100126527-25 | 05-70E-1 | 106A/1085 | |
| United States Gauge Co. | AW-23/4-25-E | N-B | | | 106A/1085 | 88-G-773 |
| Pioneer Instrument Div. | 1928-8F-A1 | N-B | | | 106A/1085 | 88-G-773 |
| Kollsman Instrument Div. | 788K-03 | B-C | | | 106A/1085 | |
| | 788K-02 | N-B-C | | | 106A/1085 | 88-G-773 |

TYPE INTERCHANGEABILITY:

Type
 Army Type D-9
 AN5770-2
 former Army Type D-11

Same except for difference in dial markings and inner construction.
 Dual gage. In an emergency, it can be used in place of the AN5770-1 if only one side is connected to the engine.

**GAGE—MANIFOLD PRESSURE (DUAL)**

AN5770-2 FORMER ARMY TYPE D-11 F. S. S. C. NUMBER 88-G-690

NAMES: Dual manifold pressure gage

Gage assembly—manifold pressure (dual)

DESCRIPTION: Dual, direct reading gage, the diaphragm of which is of opposed bellows construction.

CHARACTERISTICS:

| | |
|--------------------------|--------------------------------|
| Weight..... | approximately 1 pound |
| Dial size..... | 2 $\frac{3}{4}$ inches |
| Depth..... | approximately 3 inches |
| Range..... | 10 to 75 inches of mercury |
| Pressure connection..... | $\frac{1}{8}$ inch pipe thread |
| Markings..... | fluorescent material |

ARMY

A. E. REFERENCE NUMBER: 61-2800

SPECIFICATIONS:

| | |
|-----------------|-------------|
| Detail..... | AN-G-9 |
| Superseded..... | AN-GG-G-71a |

AN DRAWING NUMBER: AN5770

AN PART NUMBER: AN5770-2

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 3 $\frac{3}{4}$ by 4 $\frac{1}{8}$ by 4 $\frac{1}{2}$ inches |
| Gross weight..... | approximately 1 pound 6 ounces |

NAVY

SPECIFICATIONS:

| | |
|-----------------|-------------|
| Detail..... | AN-G-9 |
| Superseded..... | AN-GG-G-71a |

AN DRAWING NUMBER: AN5770

AN PART NUMBER: AN5770-2

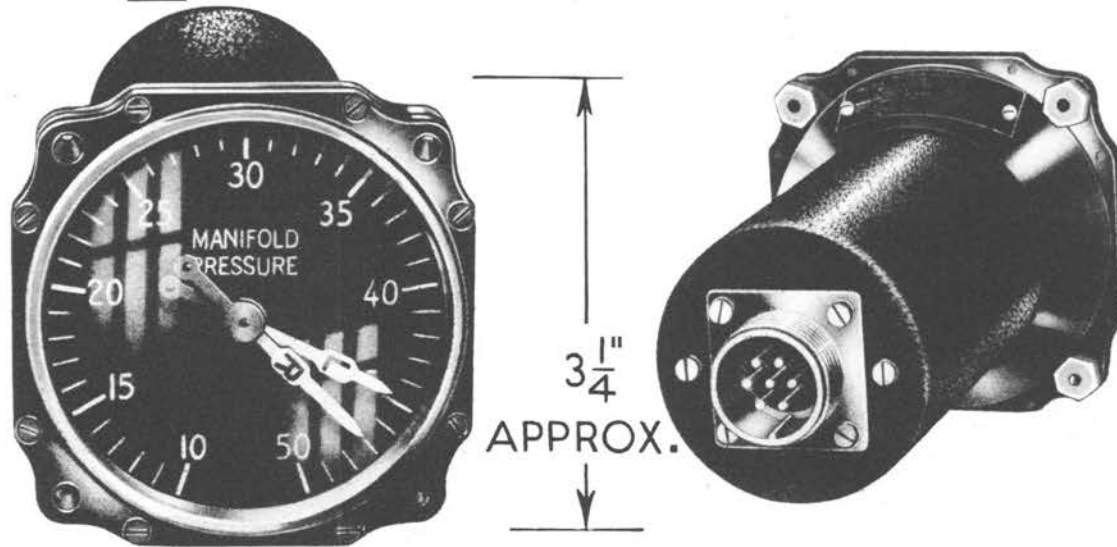
F. S. S. C. NUMBER: 88-G-690

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 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| Ranco, Inc. | 31854 | A-N-B | 6100126549 | 05-70E-1 | 106A/1315 |
| | 31832 | A-N-B | 6100126548 | 05-70E-1 | 106A/1315 |
| American Meter Co. | M-18201 | A-N-B | 6100126546-4 | 05-70E-1 | 106A/1315 |
| | M-18313 | A-N-B | 6100126546-5 | 05-70E-1 | 106A/1315 |
| Marshalltown Manufacturing Co. | 31854 | A-N-B | 6100126549 | 05-70E-1 | 106A/1315 |
| Manning, Maxwell & Moore, Inc. | 6770-161 | A-N-B | 6100126546 | 05-70E-1 | 106A/1315 |
| Kollsman Instrument Division | 728K-03 | B-C | | | 106A/1315 |
| | 728K-02 | B-C | | | 106A/1315 |

MANIFOLD PRESSURE INDICATORS INSTRUMENTS — ENGINE



INDICATOR—MANIFOLD PRESSURE

ARMY TYPE D-8 F. S. S. C. NUMBER 88-I-1575

NAMES: Manifold pressure indicator
 Autosyn manifold pressure indicator
 Indicator assembly—manifold pressure gage (dual)

Indicator manifold pressure electric dual type (Navy)
 Manifold pressure indicator—autosyn

DESCRIPTION: Dual gage of the autosyn type. It receives remote indication of manifold pressure from two electrical transmitters located at the engines.

CHARACTERISTICS:

Weight.....approximately 1¼ pounds
 Dial size.....2¾ inches
 Depth.....approximately 5¾ inches
 Range.....10 to 50 inches of mercury
 Electrical plug.....AN3106-16S-1S
 Markings.....fluorescent material

RELATIONSHIP OF PARTS: Used with: Army type D-8 transmitter, A. E. Reference Number 61-2502.

ARMY

A. E. REFERENCE NUMBER: 61-2501

SPECIFICATIONS:

Detail.....94-27936-A
 Superseded.....94-27936

TYPE DESIGNATION: D-8

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.

NAVY

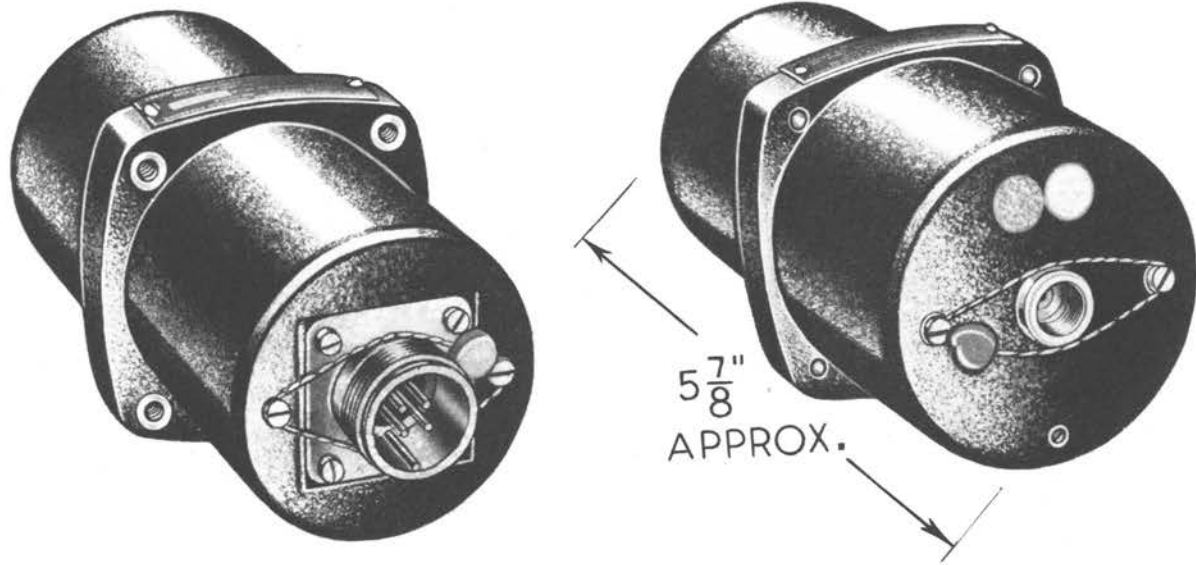
SPECIFICATIONS: Detail.....SE17

F. S. S. C. NUMBER: 88-I-1575

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 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | Remarks |
|---|--|---------|----------------------------------|-----------------------------|--------------------------|--------------------------------------|
| Pioneer Instrument, Division of Bendix Aviation Corp. | 6007-1E-7-A | A-N-B | 6100223650 | 05-55B-1 | 106A/785 | |
| | 6007-1D-7-A | N-B | | | 106A/785 | |
| | 6007-1B-1-A | B-C | | | 106A/785 | Pointer marked 1 and 2 left engines |
| | 6007-1C-6-A | B-C | | | 106A/785 | Pointer marked 4 and 3 right engines |
| | 6007-1F-7-A | B-C | | | 106A/785 | Pointer marked L and R |
| | 6007-1D-7-B | N | | | | |



TRANSMITTER—MANIFOLD PRESSURE

ARMY TYPE D-8 F. S. S. C. NUMBER 88-T-2325

NAMES: Manifold pressure transmitter
Autosyn manifold pressure transmitter
Transmitter—manifold pressure gage (dual)
Transmitter—manifold pressure—electric type (Navy)

DESCRIPTION: This autosyn transmitter, located at the aircraft engine, signals the manifold pressure to an indicator on the instrument panel.

CHARACTERISTICS:

| | |
|--------------------------|----------------------------|
| Weight..... | approximately 1 pound |
| Depth..... | approximately 5 7/8 inches |
| Range..... | 10 to 50 inches of mercury |
| Pressure connection..... | 1/8 inch pipe thread |
| Electrical plug..... | AN3106-14S-2S |

RELATIONSHIP OF PARTS: Used with: Army type D-8 indicator, A. E. Reference Number 61-2501.

ARMY

A. E. REFERENCE NUMBER: 61-2502

SPECIFICATIONS:

| | |
|-----------------|----------|
| Detail..... | 94-27936 |
| Superseded..... | 27936 |

TYPE DESIGNATION: D-8

MANUFACTURER: Pioneer Instrument Division, Bendix Aviation Corp. Type designation 4250-1-A1

A. S. C. STOCK NUMBER: 6100432015

TECHNICAL ORDER NUMBER: 05-55B-1

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

NAVY

SPECIFICATIONS: Detail.....SE17

F. S. S. C. STOCK NUMBER: 88-T-2325

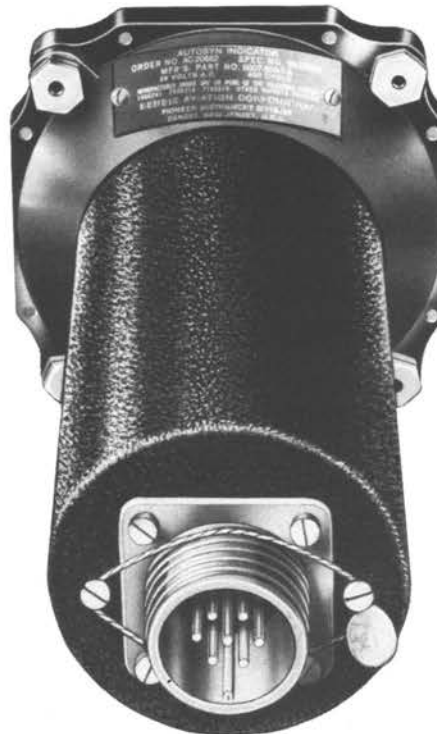
PROCUREMENT STATUS: Standard. G. F. E.—Order through A. S. O. by F. S. S. C. number.

BRITISH

BRITISH REFERENCE NUMBER: 106A/173

MANIFOLD PRESSURE INDICATORS INSTRUMENTS — ENGINE

3 1/4" APPROX.



INDICATOR—MANIFOLD PRESSURE ARMY TYPE D-8A

NAMES: Manifold pressure indicator
 Autosyn manifold pressure indicator
 Indicator assembly—manifold pressure gage (dual)

Indicator manifold pressure electrical dual type (Navy)
 Manifold pressure indicator—autosyn

DESCRIPTION: Dual gage of the autosyn type. It receives remote indication of manifold pressure from two transmitters located at the engines.

CHARACTERISTICS:

- Weight..... approximately 1 1/4 pounds
- Dial size..... approximately 2 3/4 inches
- Depth..... approximately 5 3/4 inches
- Range..... 10 to 60 inches of mercury
- Electrical plug..... AN3106-16S-1S
- Markings..... fluorescent material

RELATIONSHIP OF PARTS: Used with: Army type D-8A transmitter, A. E. Reference Number 61-2552.

ARMY

A. E. REFERENCE NUMBER: 61-2551

SPECIFICATIONS:

- Detail..... 94-27936
- Superseded..... 27936

TYPE DESIGNATION: D-8A

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.

NAVY

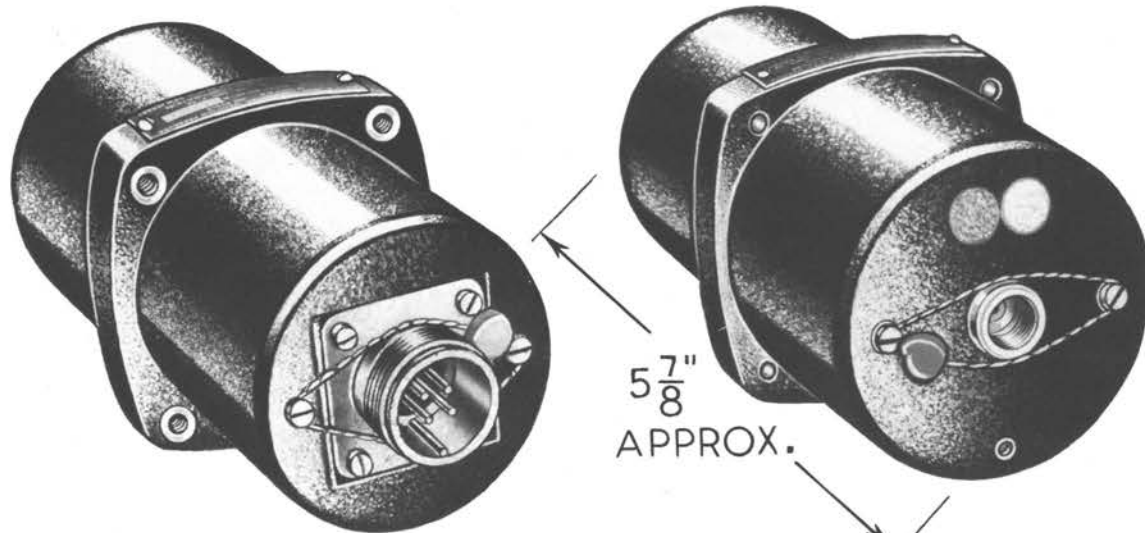
There is no Navy equivalent for this item.

MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|-----------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| Pioneer Instrument Division | 6007-50A-7-A | A-B | 6100223700 | 05-55B-1 | 106A/1241 |
| | 6007-50A-14-A | A-B | 6100223710 | 05-55B-1 | 106A/1241 |



MANIFOLD PRESSURE INDICATORS INSTRUMENTS—ENGINE



TRANSMITTER—MANIFOLD PRESSURE ARMY TYPE D-8A

NAMES: Manifold pressure transmitter
Autosyn manifold pressure transmitter

Transmitter—manifold pressure gage (dual)
Transmitter—manifold pressure—electric type (Navy)

DESCRIPTION: This autosyn transmitter, located at the aircraft engine, signals the manifold pressure to an indicator on the instrument panel.

CHARACTERISTICS:

| | |
|--------------------------|----------------------------|
| Weight..... | approximately 1 pound |
| Depth..... | approximately 5 7/8 inches |
| Range..... | 10 to 60 inches of mercury |
| Pressure connection..... | 1/8 inch pipe thread |
| Electrical plug..... | AN3106-14S-2S |

RELATIONSHIP OF PARTS: Used with: Army type indicator D-8A, A. E. Reference Number 61-2551.

ARMY

A. E. REFERENCE NUMBER: 61-2552

SPECIFICATIONS:

| | |
|-----------------|----------|
| Detail..... | 94-27936 |
| Superseded..... | 27936 |

TYPE DESIGNATION: D-8A

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.

NAVY

There is no Navy equivalent for this item.

MODELS BELOW ARE INTERCHANGEABLE Models are used in services as noted in column 3 A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|-----------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| Pioneer Instrument Division | 4250-2-A2 | A-B | 6100432025 | 05-55B-1 | 106A/1240 |
| | 4250-2-B2 | A-B | 6100432035 | 05-55B-1 | 106A/1240 |

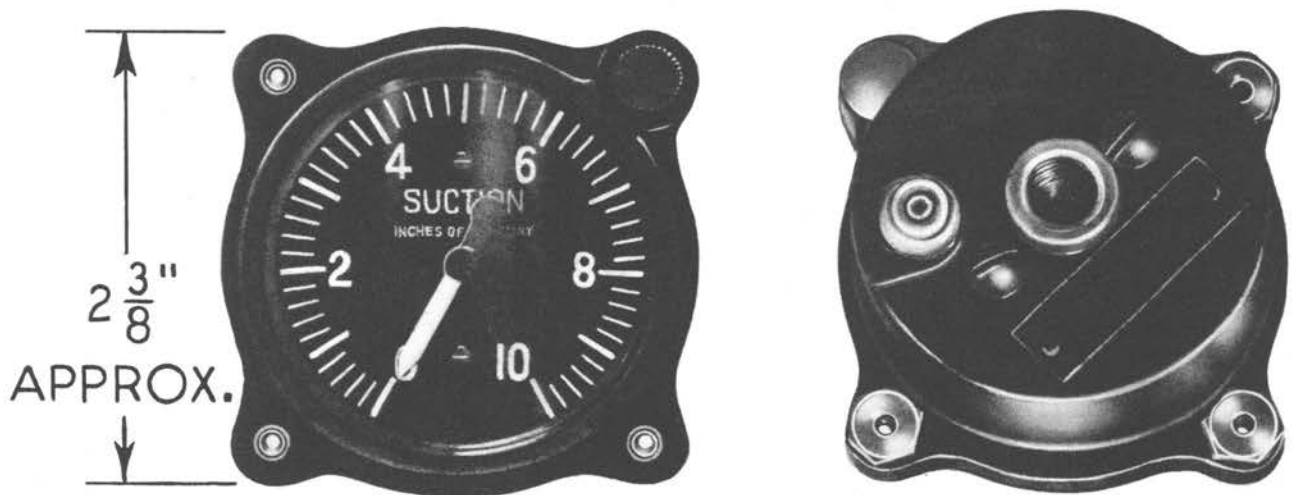


SUCTION GAGES

The suction gage is an instrument which measures and indicates the amount of suction actuating air-driven gyroscopic instruments. It consists of a standard Army bakelite case which houses the activating mechanism, a graduated dial, and a pointer.

The heart of the mechanism is a pressure sensitive element connected to the suction line which runs from the engine-driven vacuum pump or Venturi tube. This element is connected to the dial pointer by a system of gears. When variations occur in the normal output of the pump or Venturi tube, the element expands or contracts, and this movement is indicated by the pointer on the dial.

The pressure sensitive element may be either a diaphragm or a bellows. When a diaphragm is used, the case is either vented to the atmosphere, or airtight, and connected to the static line of the airspeed tube. When a bellows is used, the case is vented to the atmosphere, that is, the pressure in the case is the same as that of the airplane cabin.



GAGE—SUCTION

ARMY TYPE F-2

NAMES: Suction gage

Gage assembly—suction

DESCRIPTION: The Army type F-2 suction gage has a pressure sensitive element of the diaphragm type.

CHARACTERISTICS:

| | |
|--------------------------|--------------------------------------|
| Lighting..... | individual; single wire, 3-volt lamp |
| Range..... | 0 to 10 inches of mercury |
| Pressure connection..... | 1/8 inch pipe thread |
| Weight..... | approximately 1/2 pound |
| Dial..... | 1 7/8 inches diameter |
| Depth..... | approximately 2 3/8 inches |

ARMY

A. E. REFERENCE NUMBER: 60-3200

SPECIFICATIONS:

| | |
|-----------------|------------|
| Detail..... | 94-27813-A |
| Superseded..... | 94-27813 |

TYPE DESIGNATION: F-2

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by types F-3, F-4 and AN5771-5.

SHIPPING DATA:

| | |
|---------------------------|--|
| Dimensions of carton..... | approximately 4 1/2 by 4 1/2 by 4 1/4 inches |
| Gross weight..... | approximately 3/4 pound |

NAVY

There is no Navy equivalent for this item.

(Continued on Page 52)



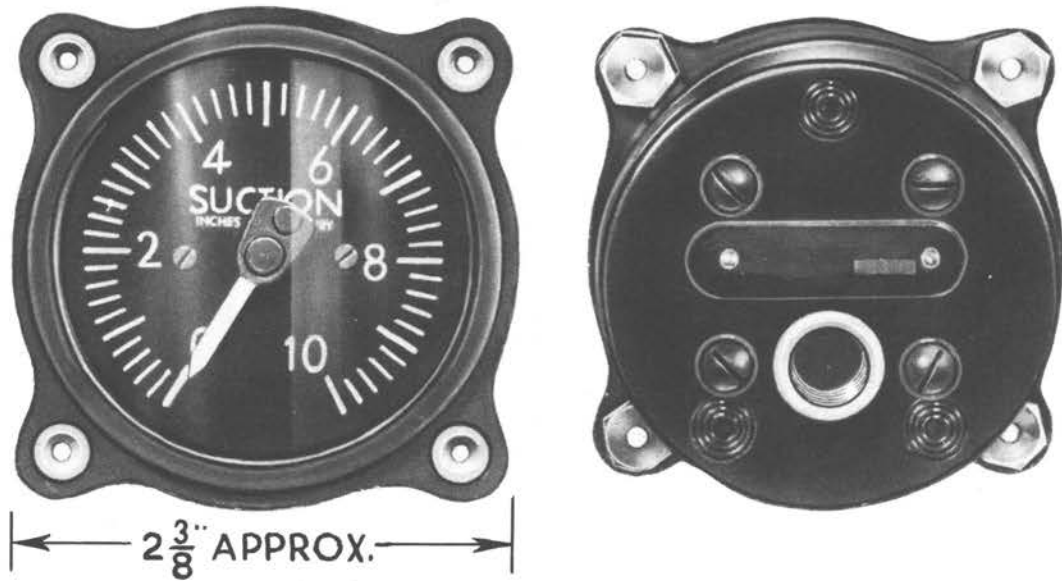
GAGE—SUCTION

(Continued from Page 51)

ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | Lighting and Dial Finish | Pressure Connection | Army Type |
|-----------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|--------------------------|----------------------|-----------|
| United States Gauge Co. | AW2-35 | A-B | 6000133750 | 05-80-1 | 106A/82 | Individual (A) | 1/8 inch pipe thread | F-2 |
| | AW2-35A | A-B | 6000134000 | 05-80-1 | 106A/82 | Individual (A) | 1/8 inch pipe thread | F-2 |
| | AW2-35D | A-B | 6000134250 | 05-80-1 | 106A/82 | Individual (A) | 1/8 inch pipe thread | F-2 |
| | AW-1 7/8-21-B | A-B | 6000132175 | 05-80-1 | 106A/82 | Individual (A) | 1/8 inch pipe thread | F-2 |
| | AW2-35E | B-C | | | 106A/82 | Individual (A) | 1/8 inch pipe thread | F-2 |
| Pioneer Instrument Division | 2500-1A-A1 | B-C | | | 106A/82 | Individual | 1/8 inch pipe thread | F-2 |
| | 2503-1A-A1 | B-C | | | 106A/82 | Individual | 1/8 inch pipe thread | F-2 |
| | 2504-1A-A1 | B-C | | | 106A/177 | Individual | 1/8 inch pipe thread | F-2 |
| | 2600-1A-A1 | B-C | | | 106A/178 | Individual (A) | 1/8 inch pipe thread | F-2 |
| | 2600-1A-B1 | B-C | | | 106A/178 | Individual (A) | 1/8 inch pipe thread | F-2 |
| | 2600-1A-A1 | B-C | | | 106A/178 | Individual (A) | 1/8 inch pipe thread | F-2 |
| | 2601-1A-B1 | C | | | | Individual (A) | 1/8 inch pipe thread | F-2 |
| | 2601-1F-B1 | C | | | | Individual (A) | 1/8 inch pipe thread | F-2 |
| | 2601-1J-B1 | C | | | | Individual (B) | 1/8 inch pipe thread | F-2 |
| | 2603-1A-A1 | C | | | | Individual | 1/8 inch pipe thread | F-2 |
| | 2603-1C-A1 | C | | | | Individual | 1/8 inch pipe thread | F-2 |
| | 2603-1D-A1 | C | | | | Individual | 1/8 inch pipe thread | F-2 |
| | 2603-1C-B1 | C | | | | Individual | 1/8 inch pipe thread | F-2 |
| | 2603-G-B1 | C | | | | Individual | 1/8 inch pipe thread | F-2 |

- (A) Major graduations finished with radium luminous material.
 (B) Dial markings finished with fluorescent or phosphorescent material.



GAGE—SUCTION

ARMY TYPE F-3 F. S. S. C. NUMBER 88-G-925

NAMES: Suction gage

Gage assembly—suction

DESCRIPTION: The Army type F-3 suction gage has a pressure sensitive element of the bellows type.

CHARACTERISTICS:

- Markings..... fluorescent material
- Range..... 0 to 10 inches of mercury
- Pressure connection..... 1/8 inch pipe thread
- Weight..... approximately 1/2 pound
- Dial..... 1 7/8 inches diameter
- Depth..... approximately 2 3/8 inches

ARMY

A. E. REFERENCE NUMBER: 60-3400

SPECIFICATIONS: Detail..... 94-27923

TYPE DESIGNATION: F-3

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Not under procurement for initial installation. Superseded by F-4 and AN5771-5.

SHIPPING DATA:

- Dimensions of carton..... approximately 4 1/2 by 4 1/2 by 4 1/4 inches
- Gross weight..... approximately 3/4 pound

NAVY

SPECIFICATIONS: Detail..... SQ98

BUAER DRAWING NUMBER: 831-SK

F. S. S. C. NUMBER: 88-G-925

PROCUREMENT STATUS: Standard. G. F. E.—Order through A. S. O. by F. S. S. C. number. Superseded by 88-G-924.

(Continued on Page 54)

ALL MODELS BELOW ARE INTERCHANGEABLE
Models are used in services as noted in column 3
A-Army, N-Navy, B-British, C-Commercial

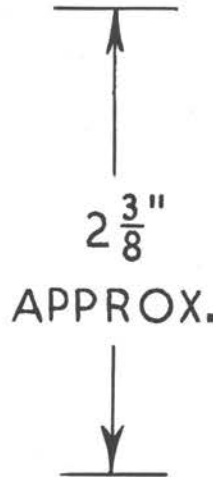
| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | F. S. S. C. Number | Pressure Connection | Army Type | Remarks |
|--------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|--------------------|----------------------------|-----------|--------------------------|
| United States Gauge Co. | AW-1 $\frac{7}{8}$ -21-AI | A-B | 6000134510 | 05-80-1 | 106A/179 | | 1/8 inch pipe thread | F-3 | |
| | AW-1 $\frac{7}{8}$ -21-K | N-B | | | 106A/179 | 88-G-925 | 1/8 inch pipe thread | F-3 | |
| | AW-1 $\frac{7}{8}$ -21-AJ | B-C | | | 106A/179 | | 1/8 inch pipe thread | F-3 | |
| | AW-1 $\frac{7}{8}$ -21-X | N-B | | | 106A/179 | 88-G-925 | 1/8 inch pipe thread | F-3 | |
| | AW-1 $\frac{7}{8}$ -21-AG | N-B | | | 106A/179 | 88-G-925 | 1/8 inch pipe thread | F-3 | |
| | AW-1 $\frac{7}{8}$ -21-Q | A-N-B | 6000134535 | 05-80-1 | 106A/1104 | 88-G-924 | (Two) 1/8 inch pipe thread | F-4 | Now designated AN5771-5. |
| | AW-1 $\frac{7}{8}$ -21-AK | A-N-B | 6000135530 | 05-80-1 | 106A/1104 | 88-G-924 | (Two) 1/8 inch pipe thread | F-4 | |
| Collens Instrument Co. | 200 | A-B | 6000134540 | 05-80-1 | 106A/1104 | | (Two) 1/8 inch pipe thread | F-4 | |
| Manning, Maxwell & Moore, Inc. | 6704-152 | A-B | 6000134554 | 05-80-1 | 106A/1104 | | (Two) 1/8 inch pipe thread | F-4 | |
| | 6704-185 | A-B | 6000134547 | 05-80-1 | 106A/1104 | | (Two) 1/8 inch pipe thread | F-4 | |
| | 6703-83 | A-B | 6000134517 | 05-80-1 | 106A/179 | | 1/8 inch pipe thread | F-3 | |
| | 6702-66 | B-C | | | 106A/179 | | 1/8 inch pipe thread | F-3 | |

(Continued from Page 53)

GAGE—SUCTION

SUCTION GAGES
INSTRUMENTS—ENGINE





GAGE—SUCTION

AN5771-5 FORMER ARMY TYPE F-4 F. S. S. C. NUMBER 88-G-924

NAMES: Suction gage

Gage assembly—suction

DESCRIPTION: The type AN5771-5 suction gage has a pressure sensitive element of the diaphragm type.

CHARACTERISTICS:

| | |
|---------------------------|----------------------------|
| Markings..... | fluorescent material |
| Range..... | 0 to 10 inches of mercury |
| Pressure connections..... | two 1/8 inch pipe thread |
| Weight..... | approximately 1/2 pound |
| Dial..... | 1 7/8 inches diameter |
| Depth..... | approximately 1 1/2 inches |

ARMY

A. E. REFERENCE NUMBER: 60-3600

SPECIFICATIONS:

| | |
|-----------------|----------|
| Detail..... | AN-G-2 |
| Superseded..... | 94-27336 |

AN DRAWING NUMBER: AN5771

TYPE DESIGNATION: AN5771-5 (former Army type F-4)

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

TECHNICAL ORDER NUMBER: Refer to chart.

PRODUCTION STATUS: Under procurement.

SHIPPING DATA:

| | |
|---------------------------|--|
| Dimensions of carton..... | approximately 4 1/2 by 4 1/2 by 4 1/4 inches |
| Gross weight..... | approximately 3/4 pound |

NAVY

SPECIFICATIONS: Detail.....AN-G-2

AN DRAWING NUMBER: AN5771. Superseded NAF drawing number 310515-1

AN PART NUMBER: AN5771-5

F. S. S. C. NUMBER: 88-G-924

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 3
A-Army, N-Navy, B-British, C-Commercial

| Manufacturer | Manufacturer's Part and Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number |
|-------------------------------|--|---------|----------------------------------|-----------------------------|--------------------------|
| Collens Instrument Co. | 200 | A-N-B | 6000134540 | 05-80-1 | 106A/1104 |
| Manning, Maxwell & Moore Inc. | 6704-152 | A-N-B | 6000134554 | 05-80-1 | 106A/1104 |
| | 6704-185 | A-N-B | 6000134547 | 05-80-1 | 106A/1104 |
| United States Gauge Co. | AW-1 7/8-21-Q | A-N-B | 6000134535 | 05-80-1 | 106A/1104 |
| | AW-1 7/8-21-AK | A-N-B | 6000135530 | 05-80-1 | 106A/1104 |

FUEL PRESSURE WARNING SIGNALS

FUEL pressure warning signals are used to attract the pilot's attention when the fuel pressure falls below a predetermined point.

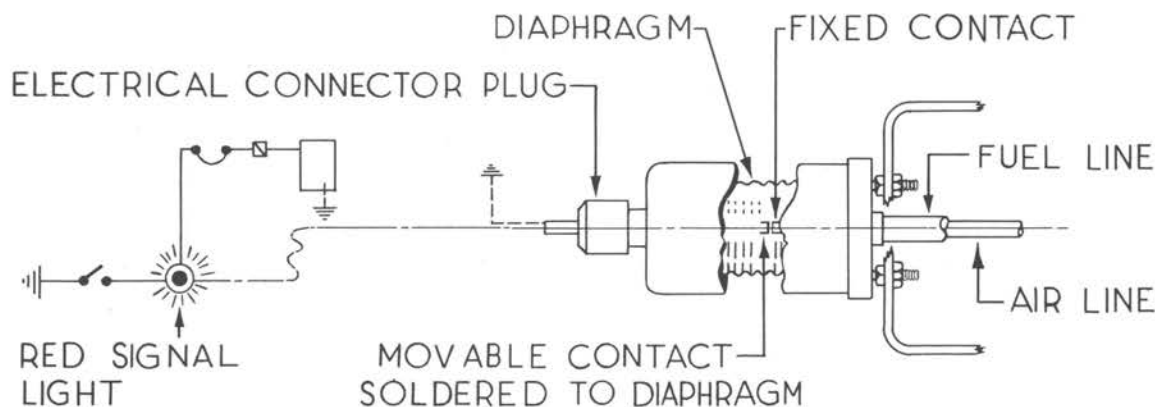
The mechanism consists of a diaphragm and a set of electrical contacts. Motion of the diaphragm is transmitted to one of the contacts. The other contact is stationary. The stationary contact is adjustable, so that the fuel pressure which causes the contacts to close may be adjusted to suit the individual installation. Fuel and air connections are made into the base of the instrument, while the electrical plug connection is at the opposite end of the unit. Where supercharger installations are used, the air connection is made into the carburetor manifold; otherwise, this connection is left open to the atmosphere through the use of a drilled plug.

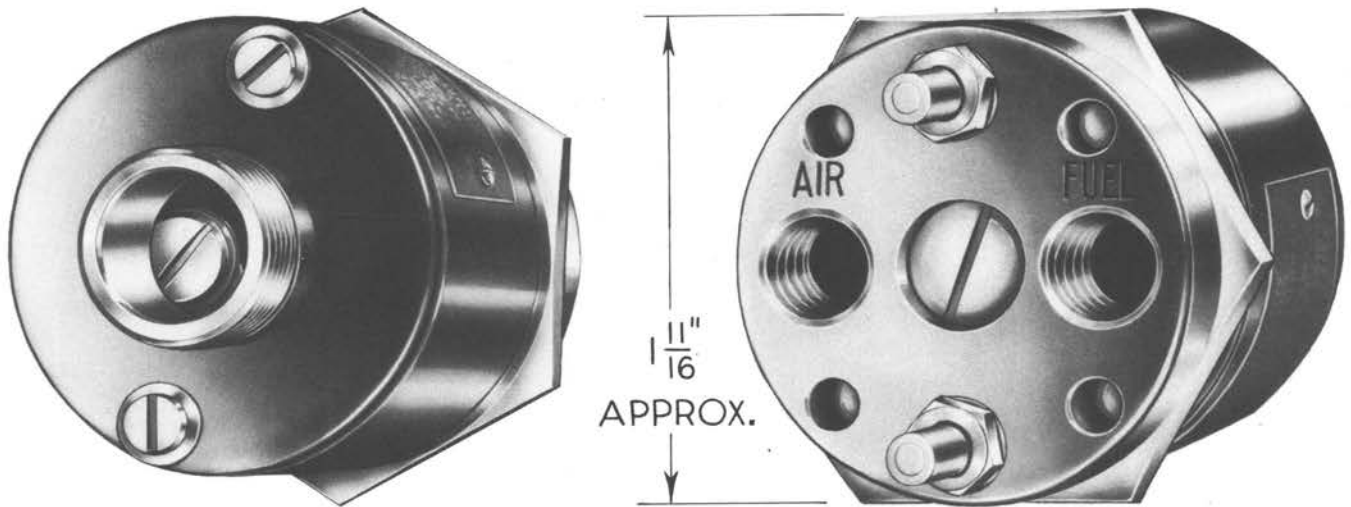
Fuel enters the signal through an inlet at the base of the unit, and acts directly upon the diaphragm. Under operating conditions, when the pressure on the inside of the instrument is the normal operating pressure, the con-

tacts are held apart by the fuel pressure on the diaphragm. With decreasing fuel pressure, the contacts are brought closer, and when the pressure falls below the pre-set point, the contacts are closed and the circuit is completed. With the closing of the circuit, a warning lamp lights in the pilot's or engineer's compartment.

Similar signal switches having sufficient current capacity may also be used in an airplane for starting and stopping an electric motor-driven pump. The pump supplies fuel from an auxiliary tank to the engine (or engines), or transfers fuel from one tank to another. By the addition of the signal switch, it automatically responds to overcome the lowered fuel pressure.

Instruments of this same type are applicable to air (vacuum), oxygen and oil systems, for warning of pressure conditions outside of predetermined limits. Those used for oxygen pressure warnings are treated, and will be found described, in the Index Section describing Oxygen Equipment.





SIGNAL—FUEL PRESSURE
ARMY TYPE C-2

NAMES: Fuel pressure signal
Signal assembly; fuel pressure, type C-2
Warning unit—fuel pressure

Pressure signal, fuel
Fuel pressure signal switch

DESCRIPTION: The Army type C-2 fuel pressure signal is a diaphragm device used to warn of dangerously low fuel pressure. It is constructed for use on two-wire electrical systems, but may be used on one-wire systems by grounding one terminal.

CHARACTERISTICS:

| | |
|--------------------------------|--|
| Dimensions..... | approximately 2 $\frac{11}{16}$ by 1 $\frac{11}{16}$ by 1 $\frac{11}{16}$ inches |
| Weight..... | approximately 0.45 pound |
| Adjustable pressure range..... | 2 to 10 pounds per square inch |
| Voltage..... | 12 or 24 volt AC or DC current |
| Electrical connections..... | recessed screw plug |

ARMY

A. E. REFERENCE NUMBER: 60-8425

SPECIFICATIONS:

| | |
|-----------------|----------|
| Detail..... | 94-32175 |
| Superseded..... | 32175-A |

TYPE DESIGNATION: C-2

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.

NAVY

There is no Navy equivalent for this item.

(Continued on Page 58)

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 Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | Current Models (X) | Remarks | |
|-----------------------------|-------------------------------------|-------------------------------|----------|----------------------------------|-----------------------------|--------------------------|--------------------|--|----------------------|
| Pioneer Instrument Division | 3120-0 | 3120-2-A | A-B | 483331202A | 03-10F-3 | 106A/907 | X | Army type C-21; pre-set contact point at decreasing pressure of 2¼ pounds per square inch. | |
| | 3120-0 | 3120-3-A | A-B | 483331203A | | 106A/907 | X | Army type C-2; pre-set contact point varies between 2 and 20 pounds per square inch. | |
| | 3110-0 | 3110-C | B-C | | | 106A/153 | X | Special two pin plug; pre-set point varies between 2 and 20 pounds per square inch. | |
| | 3110-0 | 3110-A | B-C | | | 106A/1289 | X | Special two pin plug; pre-set point varies between 2 and 20 pounds per square inch. | |
| | 3110-0 | 3110-1-C | B-C | | | 106A/154 | | Special two pin plug. | |
| | 3100-0 | 3100-A | C | | | | X | 12 volt only; fuel pressure connection only; pre-set point over entire range. | |
| | 3113-0 | 3113-1-A | C | | | | | | |
| | 3123-0 | 3123-3-A | A-B | 483331233A | | 106A/1016 | X | A. A. F. type C-3; has receptacle AN3102-12S-1P. | |
| | 3123-0 | 3123-1-A | A-B | 483331231A | 03-10F-3 | 106A/1016 | X | A. A. F. type C-3; has receptacle AN3102-12S-1P. | |
| | 3110-0 | 3110-B | C | | | | | Equivalent to 3115-A. | |
| | 3115-0 | 3115-A | C | | | | | Equivalent to 3110-B. | |
| | Kollsman Instrument Division | 160B-01 | 160B-01 | C | | | | X | |
| | | 160B-032 | 160B-032 | C | | | | X | Single wire circuit. |
| 160-021 | | 160-021 | B-C | | | 106A/278 | | | |
| 160-011 | | 160-011 | B-C | | | 106A/114 | | Single wire circuit. | |
| 160B-09 | | 160B-09 | C | | | | X | | |
| 160B-011 | | 160B-011 | B-C | | | 106A/1202 | X | Single wire circuit; similar to 160-011. | |
| 160B-021 | | 160B-021 | B-C | | | 106A/1204 | X | Similar to 160-021. | |
| 160B-019 | | 160B-019 | C | | | | X | Single wire circuit. | |
| 160-010 | | 160-010 | B-C | | | 106A/229 | | | |
| 160-020 | | 160-020 | B-C | | | 106A/836 | | | |
| 160B-020 | | 160B-020 | C | | | | X | Single wire circuit. | |
| 160B-010 | | 160B-010 | B-C | | | 106A/1203 | X | Similar to 160-010. | |
| Manning, Maxwell & Moore | 6809-A | 6809-A | A.B | 48286809A | 03-10F-3 | 106A/907 | X | Army type C-2. | |
| | 6800 | 6800 | A-B | 48286800 | 03-10F-3 | 106A/1016 | | A. A. F. type C-3; has receptacle AN3106-12S-3S. | |
| U. S. Gage Co. | Fig. 2110 | | C | | | | | Bronze Bourdon tube movement. | |
| Air Associates, Inc. | 35D4127 | 35D4127 | B-C | | | 106A/2 | | | |

(Continued from Page 57)

SIGNAL-FUEL PRESSURE

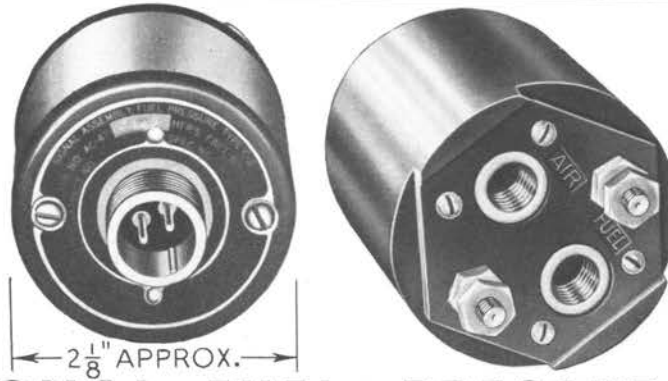
FUEL PRESSURE WARNING SIGNALS
INSTRUMENTS—ENGINE



(RESTRICTED)

(RESTRICTED)

FUEL PRESSURE WARNING SIGNALS INSTRUMENTS — FLIGHT



SIGNAL-FUEL PRESSURE ARMY TYPE C-3

NAMES: Fuel pressure signal
Signal assembly, fuel pressure, type C-3
Warning unit—fuel pressure

Pressure signal, fuel
Fuel pressure signal switch

DESCRIPTION: The Army type C-3 fuel pressure signal is used to warn of dangerously low fuel pressure. It is constructed for use on two-wire electrical systems, but may be used on single-wire systems by grounding one terminal.

CHARACTERISTICS:

| | |
|---------------------------|--|
| Adjustable pressure range | 2 to 20 pounds per square inch |
| Dimensions | approximately 2 1/8 by 2 1/8 by 2 1/8 inches |
| Weight | approximately 0.45 pound |
| Voltage | 12 or 24 volts A.C. or D.C. |
| Electrical receptacle | AND10066-12S-3P |

ARMY

A. E. REFERENCE NUMBER: 60-8450

SPECIFICATIONS:

| | |
|------------|------------|
| Detail | 94-32215-B |
| Superseded | 94-32215-A |

TYPE DESIGNATION: C-3

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.

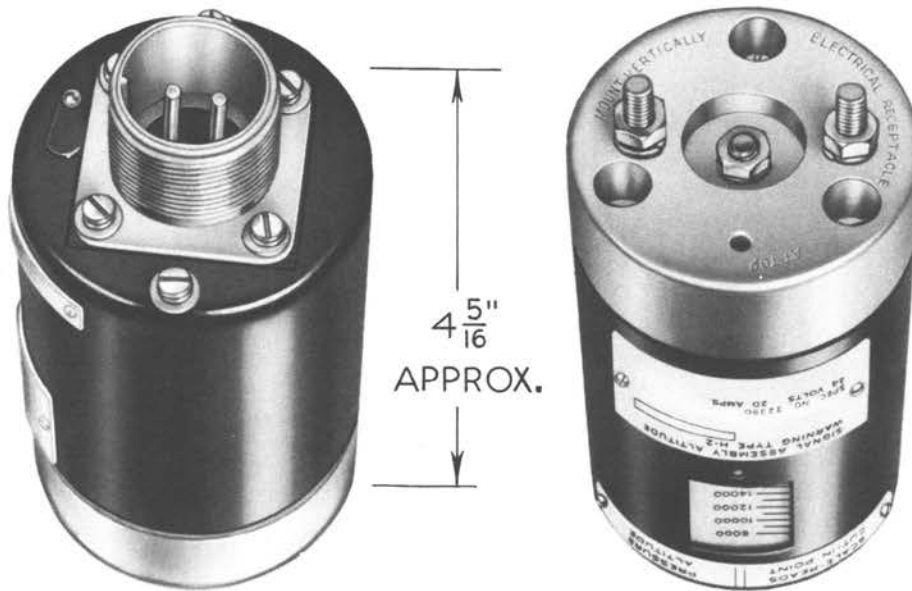
NAVY

There is no Navy equivalent for the Army item.

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

| Manufacturer | Manu- facturer's Model Identi- fication | Manu- facturer's Drawing Number | Used By | Air Service Command Stock Number | Army Technical Order Number | British Reference Number | Current Models (X) | Remarks |
|-----------------------------------|---|--|------------|---|--------------------------------------|--------------------------------|--------------------------|---|
| Kollsman Instrument Division | 160-010 | 160-010 | B-C | | | 106A/229 | | |
| | 160-020 | 160-020 | B-C | | | 106A/836 | | |
| | 160B-010 | 160B-010 | B-C | | | 106A/1203 | X | Similar to 160-010 except for stronger capsule. |
| | 160B-020 | 160B-020 | C | | | | X | Single wire circuit. |
| | 160B-09 | 160B-09 | C | | | | X | |
| | 160B-019 | 160B-019 | C | | | | X | Single wire circuit. |
| Pioneer Instrument Division | 3123-0 | 3123-1-A | A-B | 4833-3123-1-A | 03-10F-3 | 106A/1016 | X | Army type C-3; pre-set point at 12 p.s.i. Has receptacle AN3102-12S-1P. |
| | 3123-0 | 3123-3-A | A-B | 4833-3123-3-A | | 106A/1016 | X | Army type C-3; pre-set varies between 2 and 20 p.s.i. Has receptacle AN3102-12S-1P. |
| | 3110-0 | 3110-C | B-C | | | 106A/153 | X | |
| | 3110-0 | 3110-1-C | B-C | | | 106A/154 | | |
| | 3110-0 | 3110-A | C | | | | | |
| | 3100-0 | 3100-A | C | | | | | |
| | 3113-0 | 3113-1-A | C | | | | | |
| | 3110-0 | 3110-B | C | | | | | Equivalent to 3115-A. |
| Manning, Maxwell & Moore, Inc. | 6800 | 6800 | A-B | 4828-6800 | 03-10F-3 | 106A/1016 | X | Army type C-3. Has receptacle AN3106-12S-3S. |
| | 35D4127 | 35D4127 | B-C | | | 106A/2 | | |

NOTE: In an emergency these units may be used to give the same service as those under Army Air Force procurement, mounting details not withstanding.



SIGNAL-ALTITUDE WARNING
ARMY TYPE H-2

NAMES: Altitude warning signal
Signal assembly—altitude warning

Signal, altitude warning, type H-2 (air-
craft—24 volts D.C.)
Altitude warning signal switch assembly

DESCRIPTION: The Army type H-2 altitude warning signal is used to warn crews in pressurized cabin airplanes. When the air pressure in the cabin falls below a pre-set value because of leakage, puncture or failure of the cabin supercharger, the signal sounds a warning horn to notify the crew that individual oxygen masks must be donned.

The signal consists of an enclosed diaphragm, or bellows, which closes a set of contacts when the cabin pressure falls below the set value. The contacts complete a circuit, which energizes a relay and solenoid to sound the warning.

For convenience, the calibration of the setting dial of the signal is in terms of altitude, in feet, instead of equivalent pressure units.

CHARACTERISTICS:

- Altitude setting range.....8,000-16,000 feet.
- Dimensions.....approximately 4⁵/₁₆ by 2¹/₈ by 2¹/₈ inches
- Weight.....approximately 3/4 pound
- Voltage.....24 volts, direct current
- Electrical receptacle.....AND10066-16-11P

ARMY

A. E. REFERENCE NUMBER: 60-8575

SPECIFICATIONS:

- Detail.....94-32390
- Superseded.....32390

TYPE DESIGNATION: H-2

MANUFACTURER'S PART NUMBER: Baker and Company Incorporated. E. H. A100.

TECHNICAL ORDER NUMBER: AN 05-1-40

PRODUCTION STATUS: Under procurement.

SHIPPING DATA: Shipped as a complete unit.

NAVY

There is no Navy equivalent for the Army item.