

Century Instrument Corporation

Buyer's Guide

Aircraft Instrument Catalog



New & Overhauled Certified
Sales and Service
CRS TJ2R189L

Century Instrument Corporation
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(316) 683-7571 • Fax (316) 522-7694 • (800) 733-0116
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**TO PLACE AN ORDER, USE OUR "800"-NUMBER
1-800-733-0116**

GENERAL INFORMATION

ORDERING

You will find it speeds service, when ordering by mail or phone, if complete information is given. Tell us the color of the dial and any range mark requirements, voltage 14 or 28 volts, vacuum, size 2 inch, 3 inch, part number, model number and any other information you feel will help.

PRICES

Please refer to our current Price List for the latest cost for items in this catalog and additionally listed products.

SHIPPING

We ship UPS or any other carrier available that you specify. We have UPS regular, second day and one day plus several air express companies.

TERMS

Our terms are check with order — ALL MAJOR CREDIT CARDS, C.O.D. or if a volume and repeating customer, an open account can be arranged.

WARRANTY

We have a NO HASSLE one year warranty. YOU MUST BE SATISFIED!

DIRECTIONAL GYROS

Directional Gyro — Air J-4500

The vertical rotating azimuth card is controlled by a precision gyroscope, air-driven. The directional gyro will give correct heading information through $\pm 60^\circ$ of aircraft attitude in roll and pitch, 360° in yaw. A caging knob is provided to reset the gyro to the magnetic compass.

Dim: 3-1/8 x 3-1/8 x 8 Max.
Weight: 2.2 lbs. approx.
Power: 4.5 to 5.2 in. Hg. Vac. or Pressure



Directional Gyro — Electric

RCA15K Series

TSO'd - C5c

Companion to the RCA26K Series

This gyro is a direct reading, azimuth indicator. A heading select knob is fitted at the 7 o'clock position. All models use an AC (brushless) motor. The DC version incorporates an inverter to supply proper power to the rotor. A power failure flag drops into view whenever the supply voltage is lost or when the voltage has dropped below a level acceptable for proper operation of the gyro. Connector mates with MS3116E8-4S or equivalent.

Dim: 3-1/8 x 3-1/8 x 6-1/4
Weight: 2.3 lbs. approx.
Power: 14 VDC, 28 VDC, or 115 VAC (3 phase or single phase)

DC UNLIGHTED

RCA15AK-2 14 Volts DC
RCA15BK-2 28 Volts DC

DC LIGHTED

RCA15AK-1 14 Volts DC
RCA15BK-1 28 Volts DC

AC UNLIGHTED

RCA15CM-1 115 VAC (3 phase)
RCA15C-3 115 VAC (1 phase)

AC LIGHTED

RCA15CM-2 115 VAC (3 phase)
RCA15C-4 115 VAC (1 phase)



DIRECTIONAL GYRO. AIR

J-4501

The directional indicator is stabilized by an air-driven (pressure or vacuum) gyroscope. Operating limits are $\pm 55^\circ$ in pitch or bank. A caging and reset knob is provided in case these limits are exceeded and to reset the heading to the magnetic compass. Equipped with cone pivots.

Interchangeable with AN5735

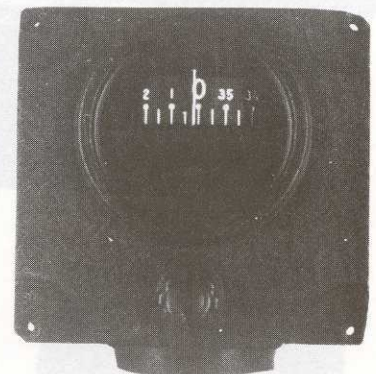
Dim: 4-1/2 x 5-1/2 x 7
Weight: 4.5 lbs. approx.
Power: 4.5 to 5.2 in Hg. Vac. or Pressure

DIRECTIONAL GYRO. AIR J-4502

Similar to J-4501 except that 34B bearings are fitted for longer life and ruggedized.

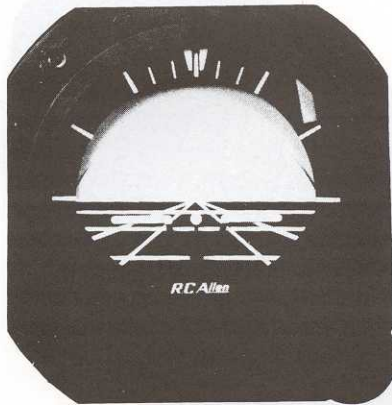
Interchangeable with AN5735.

Dim: 4-1/2 x 5-1/2 x 7
Weight: 4.5 lbs. approx.
Power: 4.5 to 5.2 in. Hg. Vac or Pressure



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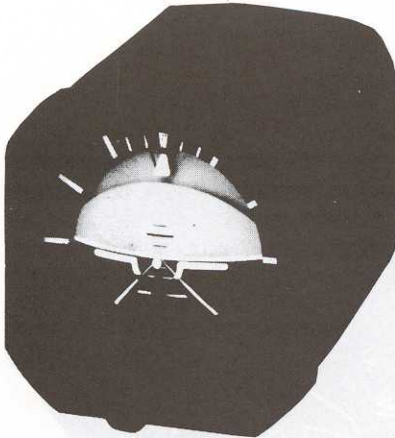
GYRO HORIZONS



Gyro Horizon — Electric RCA26BK Series Lighted or Unlighted

This gyro employs an electrically-driven rotor to sense movement in the roll and pitch axis and transmits the information to the pilot through a visual presentation. The airplane symbol is adjustable by a knob at the 6 o'clock position. A "pull to cage" knob is provided to assure immediate alignment and stability whenever power is applied to the gyro. All models have an AC motor. The DC versions have a built in inverter which converts the aircraft DC power to the required voltage and frequency for the motor operation. A power failure flag will drop into view whenever the supply voltage is below an acceptable level for the proper operation of the gyro.

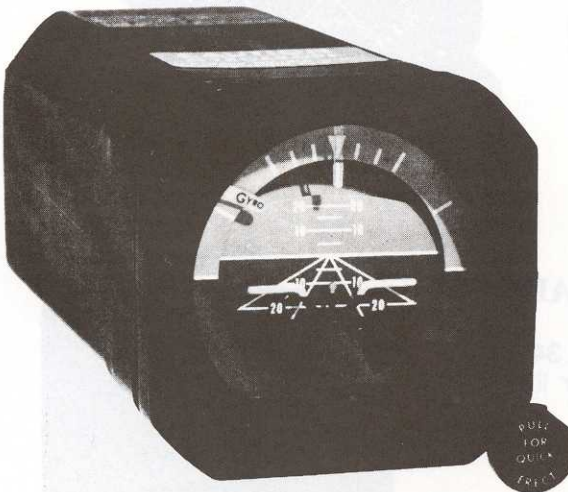
Dim: 3-1/8 x 3-1/8 x 7
Weight: 2.7 lbs. approx.



Gyro Horizon — Air J-4600

This Gyro horizon, or artificial horizon, is controlled by an air-driven precision gyroscope to present the pilot with pitch and roll information, through the full 360°. "Pictorial" presentation leads to faster interpretation of airplane attitude. A zero pitch adjustment knob is provided.

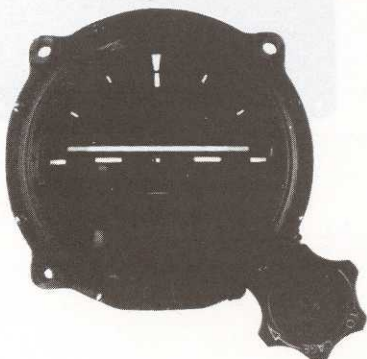
Dim: 3-1/8 x 3-1/8 x 8 Max.
Weight: 2-3/4 lbs. approx.
Power: 4.5 to 5.2 Hg. Vac. or Pressure



Gyro Horizon — Electric AIM 500E, 500DC, 510

This gyro horizon is similar in appearance and presentation to P/N J-4600 but employs an electrically-driven rotor to sense movement in the roll and pitch axis. The airplane symbol is adjustable by a knob at the 6 o'clock position. The 500E requires external inverter. The 500DC has a built in inverter. "OFF" flag indicates power failure.

Dim: 3-1/8 x 3-1/8 x 7 long
Weight: 3 lbs. approx.



Gyro Horizon — Air J-4601

Also known as the artificial horizon, it is used to maintain level flight and correct bank angle in precision turns. Equipped with zero pitch adjustment knob. Can be supplied with caging knob if required.

Dim: 5 x 5 x 7-1/4
Weight: 4.5 lbs. approx.
Power: 4.5 to 5.2 in. Hg. Vac. or Pressure

Gyro Horizon — Air J-4602

Similar in all respect to P/N J-4601 except gull wing airplane and ruggedized for longer life.

Interchangeable with AN5736

Dim: 5 x 5 x 7-1/4
Weight: 4.5 lbs. approx.
Power: 4.5 to 5.2 in. Hg. Vac. or Pressure

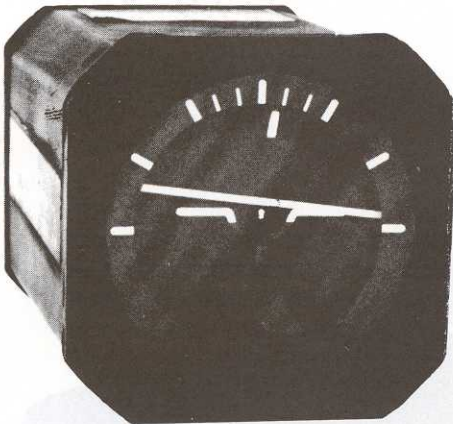
AUTOPILOT GYROS

Directional Gyro — Autopilot

G502A & 52D54

The directional gyro provides a visual display of aircraft heading and an electrical signal proportional to heading select error.

Dim: 3-1/8 x 3-1/8 x 7-3/4
Weight: 3 lbs. approx.
Power: 4.5 to 5.2 in. Hg. Vac. or Pressure
Connector: Amphenol P/N 126-223



Gyro Horizon — Autopilot

GG301 H-14

The gyro horizon is basically similar to P/N J-4600, but incorporates two electrical pickoffs which, when the autopilot is engaged, senses deviations in roll and pitch axis and transmits signals to the aileron and elevator servos to correct the deviations.

Dim: 3-1/8 x 3-1/8 x 6-1/4
Weight: 2.5 lbs. approx.
Power: 4.5 to 5.2 in. Hg. Vac. or Pressure
All dash numbers included in price.

Gyro Horizon

52D52, 52D56 & 52D66

Incorporates electrical pickoffs to detect roll and transmit corrective signals to the aileron servos.

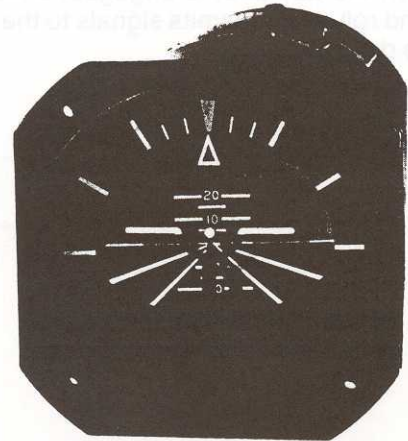
Dim: 3-1/8 x 3-1/8 x 6
Weight: 2.7 lbs. approx.
Power: 4.5 to 5.2 in. Hg. Vac. or Pressure

Gyro Horizon

52D55, 52D67 & 52D51

Incorporates electrical pickoffs to detect deviations, in both the roll and pitch axis and transmit corrective signals to aileron and elevator servos.

Dim: 3-1/8 x 3-1/8 x 6-1/2
Weight: 2.7 lbs. approx.
Power: 4.5 to 5.2 in. Hg. Vac. or Pressure



Directional Gyro — Autopilot

G520A (200-3)

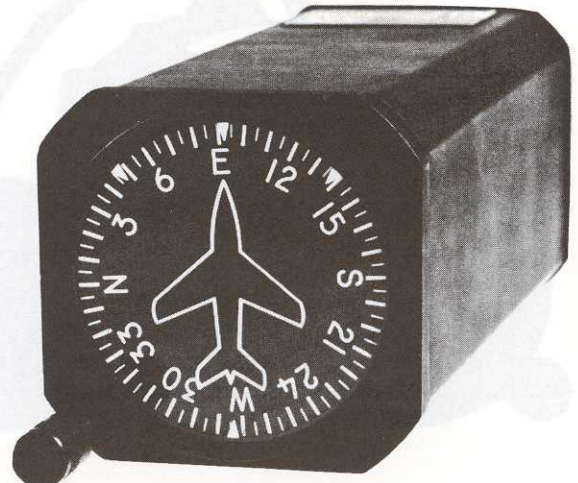
This directional gyro is basically similar to P/N J-4500, but incorporates an electrical pickoff which, when the autopilot is engaged, senses any deviation in aircraft heading and transmits signals to the aileron servos to correct the deviation.

Dim: 3-1/8 x 3-1/8 x 7-3/4
Weight: 2.7 lbs. approx.
Power: 4.5 to 5.2 in. Hg. Vac. or Pressure

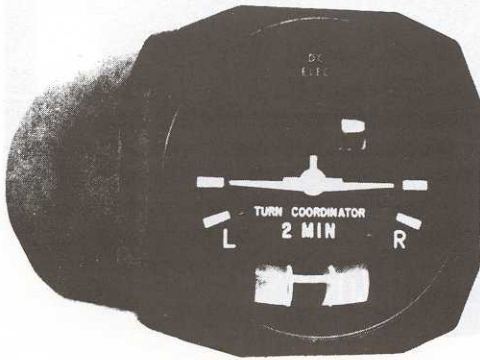
Directional Gyro — Autopilot

G20A (403-1)

This directional gyro is similar to P/N G520A but is "slaved," i.e., continuously resets itself to the earth's magnetic lines of force to counteract the normal precession due to bearing friction and the earth's rotation.



TURN & BANK INDICATORS WITH AUTOPILOT



ARC Autopilot Rate Gyro G515A, G500A & G300A

Incorporates an electrical pickoff to sense rotor gimbal frame rotation around the spin axis. The rate gyro is mounted with its spin axis at $37\frac{1}{2}^\circ$ to the horizontal center line of the aircraft in cruise attitude and thus senses deviations in roll and yaw. Signals are transmitted to the aileron servos to correct these deviations.

Dim: 3-1/8 x 3-1/8 x 5-1/2
Weight: 2 lbs. approx.
Power: 14 V or 28 VDC

Turn & Bank Indicator — Autopilot H-14 System GG205

The turn & bank indicator incorporates an electrical pickoff which, when the autopilot is engaged, senses deviations in yaw rate and roll and transmits signals to the aileron servos to correct the deviations.

Dim: 3-1/8 x 3-1/8 x 6-3/8
Weight: 1.8 lbs. approx.
Power: 28 VDC
All dash numbers included in price.



ALL TURN AND BANKS ARE SUITABLE FOR HIGH PERFORMANCE AIRCRAFT



Brittain Autopilot TC100 Series

Autopilot turn coordinator incorporates a pneumatic pickoff which, when the autopilot is engaged, senses deviations in yaw rate and roll and transmits signals to the aileron servos to correct the deviations.

A roll trim knob is provided at the 7 o'clock position for initial lateral leveling of the aircraft.

Dim: 3-1/8 x 3-1/8 x 7
Weight: 3.3 lbs. approx.
Power: 14 or 28 VDC

P/N TC100EVS -
Vacuum only autopilot
P/N TC100EVT -
Vacuum & Electrical autopilot

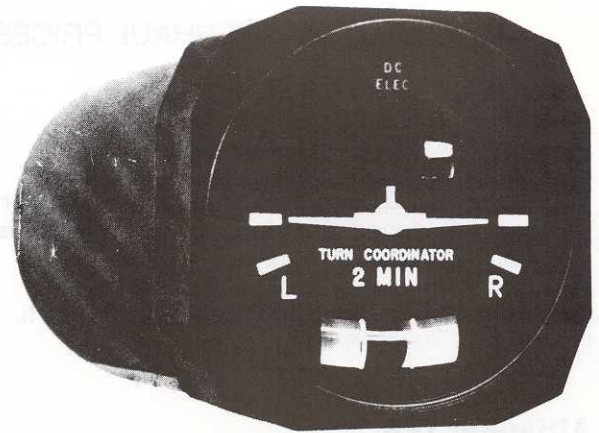
TURN & BANK INDICATORS

Turn Coordinator

J-3500

The turn coordinator is an electrically-driven gyroscope supported in gimbals inclined to the horizontal so that the instrument is presented by an airplane symbol banking on a fixed horizon.

Dim:	3-1/8 x 3-1/8 x 6	P/N	VOLTAGE
Weight:	1-1/4 lbs. approx.	J-3500-1	14 VDC
Power:	14 VDC or 28 VDC	J-3500-2	28 VDC
Connector:	MS3106A-10SL-3S	J-3500-3	11-30 VDC



Turn & Bank - 3"

J-2005, J-2006

The 3" turn and bank indicator consists of a rate of turn pointer controlled by an electrically-driven precision gyroscope, and an inclinometer, housed in a 3" dia. case.

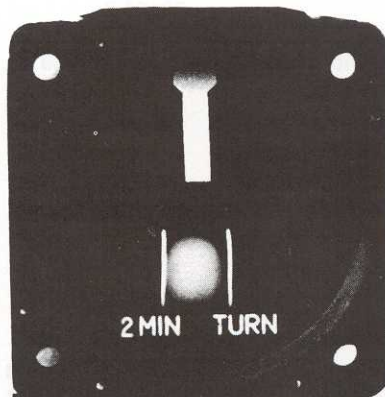
Dim:	3-1/8 x 3-1/8 x 5-3/4
Weight:	1.3 lbs. approx.
Power:	14 VDC or 28 VDC

CANNON TYPE:

P/N	VOLTAGE
J-2005-1	14 VDC
J-2006-1	28 VDC

TERMINAL TYPE:

P/N	VOLTAGE
J-2005-2	14 VDC
J-2006-2	28 VDC



Turn & Bank, Electric 2 INCH — 14V or 28V

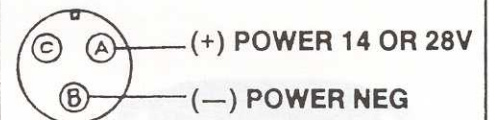
J-2000 and J-2001

The 2" indicator contains a precision gyroscope, electrically-driven, together with an inclinometer; to present rate of turn, and bank information. Connection is by Cannon connector.

Dim:	2-1/4 x 2-1/4 x 5-1/2
Weight:	1.2 lbs. approx.
Power:	14 or 28 Volts D.C.
Connector:	MS3106A-10SL-3S
	A.I.D. P/N
14 V.D.C.	J-2001
28 V.D.C.	J-2000

T C & T & B WIRING

CONNECTOR 3106-10SL-3S



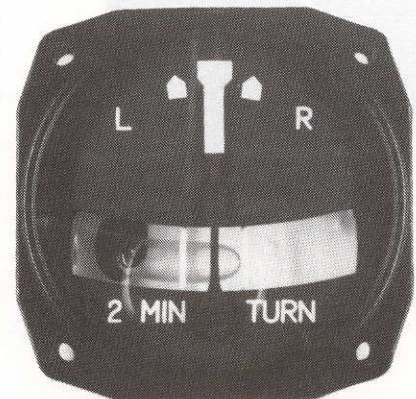
NO CONNECTION TO 'C'

Turn & Bank. Air

J2500

This instrument consists of a turn indicator needle driven by a precision gyroscope, and an inclinometer, housed in a 3" dia. case to give the pilot accurate turn and bank information during flight. Interchangeable with AN5820.

Dim:	3-1/8 x 3-1/8 x 5-3/8
Weight:	1.5 lbs. approx.
Power:	1.8 to 2.2 in. Hg. Vac. or Pressure



ALTIMETERS

OVERHAUL PRICES Include ALL Normal Replacement Parts

Altimeter VFR

D-2000-1

This altimeter is a three-pointer type, intended for VFR use only. It is calibrated to standard tolerances. Standard barometric scale is in inches of mercury. If millibar scale is required add suffix "M" to P/N.

Dim:	3-1/8 x 3-1/8 x 4	Range	P/N
Weight:	1.0 lbs. approx.	20,000 ft.	D-2000-1
Power:	Static system		



Altimeter IFR

D-2000

Range	P/N
20,000 ft.	D-2000-4
30,000 ft.	D-2000-5

Altimeter IFR

With Low Altitude Warning Stripes

D-3106 and D-2100

This altimeter is a three-pointer type temperature-compensated housed in a metal case. Equipped with a low altitude Barber Pole warning flag which starts to appear when aircraft descends below 15,000 ft. or lower. Barometric scale located at 3 o'clock position and is manually set by knob located at 7 o'clock position. Standard scale is displayed in inches of mercury. If millibar display is required add suffix "M" to P/N. Altimeter is calibrated to F.A.R. Part 43, Appendix E.

Dim:	3-1/8 x 3-1/8 x 4-1/2	Range	P/N
Weight:	1.5 lbs. approx.	20,000 ft.	D-3106-1
Power:	Static system	30,000 ft.	D3106-2
		50,000 ft.	D-3106-3

Also available in plastic case and all data is same as D-3106 except case material and weight: 1.3 lbs.

Range	P/N
20,000 ft.	D-2100-1
30,000 ft.	D-2100-2

Altimeter IFR

Six O'Clock Setting Knob

D-2101

This altimeter is a two-pointer type, temperature - compensated, housed in a metal/plastic case. Barometric scale located at 3 o'clock position, is manually set by knob located at 6 o'clock position. Standard scale is displayed in inches of mercury. If millibar display is required add suffix "M" to P/N.

Dim:	3-1/8 x 3-1/8 x 4-1/2	Range	P/N
Weight:	1.0 lbs. approx.	20,000 ft.	D-2101-1
Power:	Static System		



DIALS AVAILABLE IN FEET OR METERS.
BAROMETRICS AVAILABLE IN IN Hg OR MILLIBARS,

ALTITUDE REPORTING ALTIMETERS

OVERHAUL PRICES Include ALL Normal Replacement Parts



Altitude Range:
Minus 1,000 to 20,000 ft.
Minus 1,000 to 35,000 ft.
Minus 1,000 to 50,000 ft.

Optional Integral Lighting Available:
Power Requirements:
14 volts D.C.
28 volts D.C.

Digital output interfaces with all current TSO certified transponders and most current non TSOed models. Easy to install — just remove your old altimeter and replace it with this new reporting type in the same panel cutout. Needs only one electrical cable to your present transponder and uses your present static connection.

Available in conventional three pointer style or modern easy to read airline type counter drum pointer presentation. Barometric Range: 28.1 to 31.0 inches Hg. or 950 to 1050 Millibars.

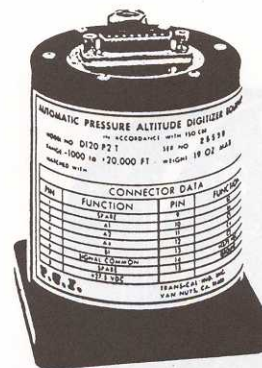


The Aerosonic Digitizer

Pressure sensitive altimeter with fast, clear readout for the pilot. Simultaneous digital reporting of altitude via transponder Mode AC or (ALT) to traffic controllers radar screen.

A unique, state-of-the-art, solid state encoding system. No brushes, no synchros, no servo motors. Uses a frictionless, accurate and highly dependable optical encoding system with FAA certification under TSO-C10b and TSO-C-88.

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WE SELL AND SERVICE THE FOLLOWING:

AEROSONIC	ACK
TRANS-CAL	EVERGREEN
KING	AERO MECHANISM
NARCO	LEAR
KOLLSMAN	SMITH
BENDIX	ARC

Trans Cal — Blind Encoder

Trans-Cal Industries (TCI) has designed a low cost altitude reporting system that will meet and satisfy all the requirements of T.S.O. C-88. The system is completely independent of the pilot's altimeter and consists of a temperature compensated pressure sensitive dual aneroid capsule, associated mechanical linkages and an encoder module. The encoder module is an optical type utilizing Gallium Arsenide (GaAs) light emitting diodes, a metalized code disc, solid state detector and associated electronics.

The digitizer has an active code range of -1000 feet up to + 35,000 feet.

AIRSPEED INDICATORS

AIRSPEED INDICATORS CAN BE ORDERED WITH RANGE MARKS FOR AN ADDITIONAL CHARGE



Airspeed Sensitive B-1000

The sensitive airspeed indicates 100 MPH, or Knots, with each revolution of the pointer around the main dial, and multiples of 100 in the secondary dial in the upper half of the main dial.

Dim: 3-1/8 x 3-1/8 x 2-1/2
Weight: 1 lb. approx.
Power: Aircraft pitot-static system
Range: 50 to 700 MPH B-1000
50 to 600 KNOTS B-1000-1

Airspeed B-1002-1

The airspeed indicator is an instrument which senses the pressure generated by the movement of air into the pitot tube, and the pressure (static) of the surrounding air mass. The difference in these two pressures causes the movement of a pointer over a dial marked in units of airspeed. The standard instrument carries an outer scale marked MPH and an inner scale marked KNOTS.

Dim: 3-1/8 x 3-1/8 x 2-1/8
Weight: .6 lbs. approx.
Power: Pitot-static connections
Range: 40 to 180 MPH
40 to 160 KNOTS



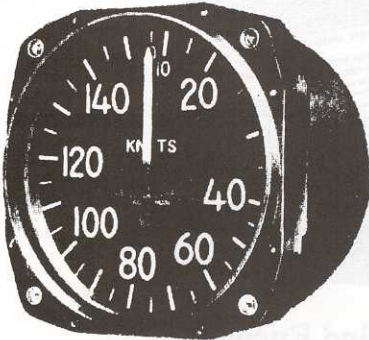
Airspeed B-1002-2

Same as above, except has a range of 40 to 200 MPH and 40 to 170 KNOTS.

Airspeed B-1002-3

Same as above, except has a range of 40 to 300 MPH and 40 to 260 KNOTS.

P/N B-1004-1 (Reverse Dial-Knots
Outside-MPH Inside)



Airspeed Helicopter B-1001 K

This airspeed indicator is intended for helicopter use. If MPH or Dual Scale is required specify when ordering.

Dim: 3-1/8 x 3-1/8 x 2-1/4
Weight: 3/4 lb. approx.
Power: Aircraft pitot static system
Range: 10 to 170 MPH B-1001-4
10 to 150 KNOTS B-1001K
Combination MPH outer dial B-1001-1
Combination KNOTS outer dial B-1001-2



Airspeed B-1005

Same basic airspeed as B-1002 except as described below:

Dim: 3-1/8 x 3-1/8 x 2-1/4
Weight: .60 lb.
Range: 40 - 260 Kts.

AIRSPEED INDICATORS

AIRSPEED INDICATORS CAN BE ORDERED WITH RANGE MARKS FOR AN ADDITIONAL CHARGE.



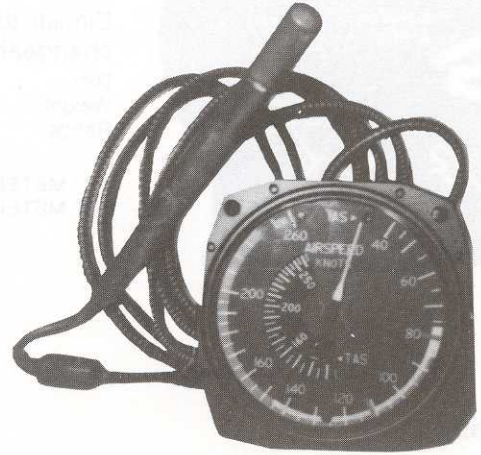
True Airspeed 3-1/8"

B-1006

40 to 240 MPH

Operates on same principle as other airspeed indicators. This model has an adjustable outside air temperature setting which allows the user to compute the True Airspeed.

DIALS AVAILABLE IN MPH, KNOTS OR DUAL SCALE MPH OUTER-KNOTS INNER OR KNOTS OUTER-MPH INNER.



This airspeed contains an altimeter diaphragm and temperature diaphragm which continually modify the magnifying ratio of the airspeed mechanism. The effects of density and temperature changes are continuously counteracted, thereby providing constant true airspeed. This indicator has a capillary tube with a temperature bulb that must be mounted through the fuselage.

3-1/8"

AIRSPEED RANGES

20-120 MPH
20-100 KNOTS
20-150 KNOTS
20-170 MPH
30-160 MPH
40-180 MPH
40-200 MPH
40-250 MPH
40-300 MPH
40-350 KNOTS
40-400 MPH
40-400 KNOTS

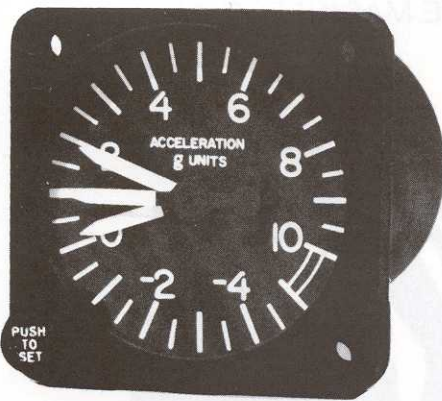
2-1/4"

AIRSPEED RANGES

20-100 KNOTS
20-120 MPH
30-160 MPH
40-200 MPH
40-250 MPH

WE EXCHANGE OR OVERHAUL YOURS.
CERTIFIED REPAIR STATION TJ2R189L.
1 FULL YEAR NO HASSLE WARRANTY.

ACCELEROMETER



Accelerometer — 2"

A-100

Similar to P/N A-101, except instrument is housed in a 2" diameter case. Interchangeable with MS28025-1.

Dim: 2-1/4 x 2-1/4 x 4
Weight: Approx. .7 lbs.
Range: -5g to +10g.

"G" METERS RANGE -5 TO +10 2 IN.

"G" METERS RANGE -5 TO +12 3 IN.

Accelerometer

A-101

This instrument, mounted in the aircraft panel with its face in the vertical plane, registers to "g" forces acting on the airframe during turbulence, or aerobatic maneuvers. One pointer gives a continuous reading, the other two indicate maximum positive and negative loads. A reset knob is provided. The mechanism is locked for shipping. Interchangeable with AN5745.

Dim: 3-1/8 x 3-1/8 x 3
Weight: Approx. .8 lbs.
Range: -5g to +12g.



CLOCKS

Clock 8-Day

E-100

A high-quality Swiss made 7-jewel movement in a 2" diameter aircraft instrument case. Full 8-day spring. Winding and hand-setting knob at 7 o'clock position. Sweep-second hand. Interchangeable with AN5743-1.

Long Knob E-100
Short Knob E-100-2

Dim: 2-1/4 x 2-1/4 x 2-1/2
Weight: Approx. .4 lb.

Clock 8-Day Lighted

E-100L

This clock has the accuracy of a Swiss made 7-jewel movement and the convenience of being internally lighted. Winding and hand-setting knob at 7 o'clock position. Hands and numbers are finished in matte white against a dull black background. Comes standard with a sweep-second hand. Same as E-100 only with light. Not pictured.

Dim: 2-1/4 x 2-1/4 x 1-5/8
Weight: Approx. .5 lbs.



AIRCRAFT CLOCKS



Clock 8-Day With Elapsed Time

E-101

Finest quality Swiss movement for dependable accuracy. This 8-day wind clock equipped with red elapsed-time hands which are mounted and set with the knob installed in the center of dial glass. This convenient feature is used as a reminder of take-off time, E.T.A., fuel exhaustion time, etc. Operating sweep-second, minute, and hour hands as well as numbers, letters and increments are finished in matte white on dull black background. Dual purpose knob at 7 o'clock position is used for winding and setting.

Long Knob E-101-1

Short Knob E-101

Dim: 2-1/4 x 2-1/4 x 2-1/2
Weight: Approx. .4 lb.



Clock — Electric NEW

E110-1 Unlighted

E110-2 Lighted

Installs in 2" instrument opening and connects either to 14 or 28 VDC. Fuse not included. Sweep-second, minute and hour hands. Letters, numbers and increments are matte white with dull black background.

Dim: 2-1/4 x 2-1/4 x 2
Weight: .3 lb.
Power: Either 14 or 28 VDC

Also available with Elapsed Time pointers



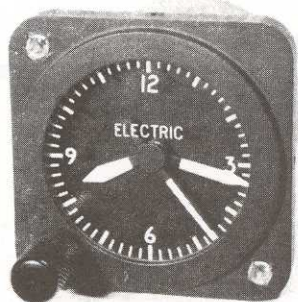
Clock, Stop Watch Comb.

AF Type A13-A, E-106 and E-107

This clock combines the normal 12 hours, 8 day wind clock feature with stop watch, or elapsed time, features. The elapsed time knob located at the 2 o'clock position operates push to reset, to start and to stop. This feature activates an elapsed sweep second hand and an elapsed minute hand. A knob located at the 7 o'clock position is the conventional winding and setting knob. All numbers, letters and increments are matte white on dull black background. Mounts in 2" instrument opening.

Dim: 2-1/4 x 2-1/4 x 1-5/8
Weight: .4 lb.

	Unlighted	Internally Lighted
P/N	E-106	E-107



Electric Aircraft Clock

E105

Installs in 2" instrument opening and connects either to 14 and 28 VDC. Fuse not furnished. Setting knob is located at 7 o'clock position. Sweep second, minute and hour hands. Letters, numbers and increments are matte white with dull black background. Originally installed in most Cessna Aircraft.

Dim: 2-1/4 x 2-1/4 x 2
Weight: .3 lb.
Power: E-105-1 14V E-105-2 28V

All units supplied with Elapsed Time pointers

VERTICAL SPEEDS



Vertical Speed Indicator

R-1001

This V.S.I. will mount in a normal 3" instrument opening. The zero adjusting screw is located at the 7 o'clock position. All numbers, letters and increments are matte white on dull black background.

Dim: 3-1/8 x 3-1/8 x 4
Weight: Approx. .7 lb.
Range: 0-2000 F.P.M.
Power: Static System

This unit available in a 6 o'clock cut-out.

Vertical Speed Indicator

R-1004

This vertical speed indicator is contained in a 3" instrument case with the zero-adjusting screw located at the 7 o'clock position. The operating range is from 0 to 6000 F.P.M. climbing or descending. Matte white letters, figures and pointer on a dull black background.

Dim: 3-1/8 x 3-1/8 x 6
Weight: Approx. .7 lb.
Range: 0-6000 F.P.M.
Power: Static System



Instantaneous Vertical Speed Indicator

R-1007

This I.V.S.I. contains an accelerometer which senses any change in the vertical plane immediately and eliminates the "lag" associated with the normal vertical speed indicators. It will mount in a normal 3" instrument opening. The zero adjusting screw is located at the 7 o'clock position. All numbers, letters and increments are matte white on dull black background.

Dim: 3-1/8 x 3-1/8 x 3-1/4
Weight: 1.3 lbs.
Range: 0-4000 F.P.M.
0-6000 F.P.M.
Power: Aircraft Static System

P/N
R-1007-1 0-4000 F.P.M.
R-1007 0-6000 F.P.M.



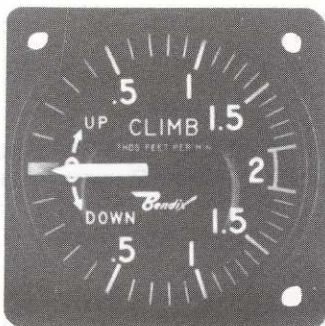
Vertical Speed Indicator — 2"

R-1008, 1009

This instrument will mount in a standard 2" instrument opening. The zero adjusting screw is located at the 7 o'clock position. All numbers, letters and increments are matte white on dull black background.

Dim: 2-1/4 x 2-1/4 x 5-1/4
Weight: .7 lb.
Power: Static System
Range: 0-2000 F.P.M.
0-6000 F.P.M.

P/N R-1008
R-1009



ELECTRIC INSTRUMENTS

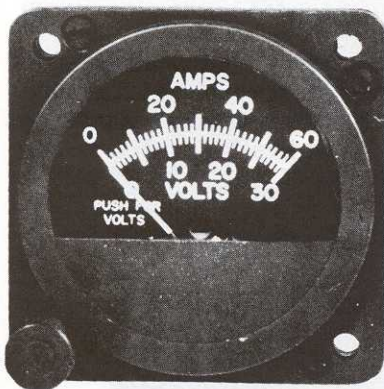
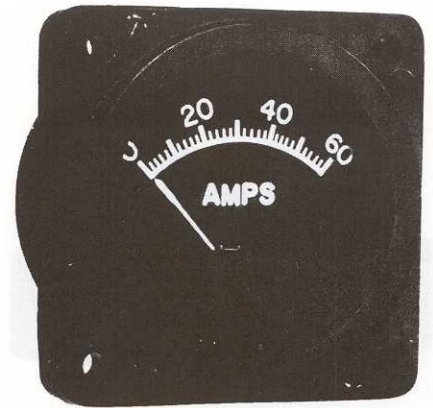
Ammeter

C-1100

Moving coil type, designed for aircraft use. Requires external 50 millivolt shunt.

Dim: 2-1/4 x 2-1/4 x 2
Weight: .4 lb. approx.
Voltage: 14 or 28 Volts DC

Range	P/N
0 to 30	C-1100-1
0 to 60	C-1100-2
0 to 80	C-1100-3
0 to 120	C-1100-4
0 to 150	C-1100-5



Voltammeter

C-2004

Moving coil type, designed for aircraft use. Combined voltage and current scales to save panel space. Normally reads circuit current with press for volt knob. Requires external 50 MV shunt. Voltage range is always 0 to 30 Volts DC.

Dim: 2-1/4 x 2-1/4 x 2
Weight: .6 lb. approx.
Voltage: 14 or 28 Volts DC

Range	P/N	Range	P/N
30	C-2004-9	120	C-2004-8
50	C-2004-11	150	C-2004-3
60	C-2004-1	170	C-2004-13
75	C-2004-10	200	C-2004-4
80	C-2004-7	240	C-2004-5
85	C-2004-12	250	C-2004-14
100	C-2004-2	300	C-2004-6

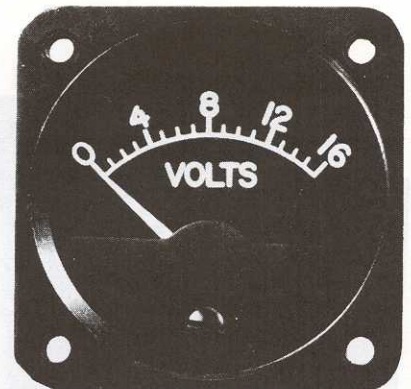
Voltmeter

C-5000

A moving coil D'arsonval meter of high quality mounted in a standard 2" aircraft case, for monitoring aircraft power systems.

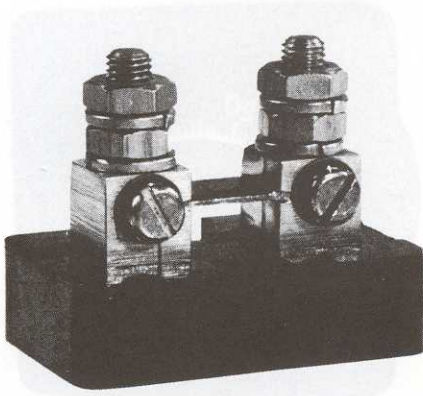
Dim: 2-1/4 x 2-1/4 x 2
Weight: .6 lb. approx.

Range	P/N
0 to 16 VDC	C-5000-1
0 to 30 VDC	C-5000-2



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CERTIFIED REPAIR STATION TJ2R189L.
1 FULL YEAR NO HASSLE WARRANTY.

LONG LIFE SOLID STATE INVERTERS



Shunt

C-902

(New Manufacture)

For use with ammeters and voltmeters. 50 Millivolt rating.

Dim: 2 x 1-1/4 x 1-5/8
Weight: .5 lb. approx.

Rating	P/N
30 Amps	C-902-1
50 Amps	C-902-2
55 Amps	C-902-8
60 Amps	C-902-3
75 Amps	C-902-4
80 Amps	C-902-6
120 Amps	C-902-9
125 Amps	C-902-5
150 Amps	C-902-10

Inverter Solid State

14 or 28 VDC or 115 VAC 1 Phase

23-1110

This inverter converts input DC voltage to 115 VAC. It was specifically designed to power electro-luminescent panels or an electric gyro. It is compatible for general use in any application requiring 115V, 400 Hz, 1 phase. Extensive noise reduction techniques have been employed in the design to eliminate EMI & RFI making this member of the A.I.D. long life inverter family compatible with sensitive avionics systems.

Dim: 5.5 x 4 x 3.12
Weight: 2.5 lbs.
Output: 50 VA, 115 VAC, 400 Hz, 1 Phase
Temp. Range: -55° to +106°F
Connector: MS3102A-14S-5S

Input A.I.D. P/N
14 VDC 23-1110-1
28 VDC 23-1110-2



Inverter Solid State

14 or 28 VDC to 115 VAC — 3 Phase

23-1205

This A.I.D. long life, lightweight, noiseless, solid state inverter converts input DC voltage to 115 AC voltage. Two independent output stages with separate connectors assures correct operation regardless of load changes.

Dim: 5.5 x 4 x 3.12
Weight: 2.5 lbs.
Output: 50 VA (watts), 115 Volts AC, 400 Hz, 3 Phase
Range: -55°F to +160°F
Connector: MS3102A-14S-5S, MS3106A-10SL-3S

A.I.D. P/N INPUT
23-1205-1 14 VDC
23-1205-2 28 VDC

ENGINE INSTRUMENTS

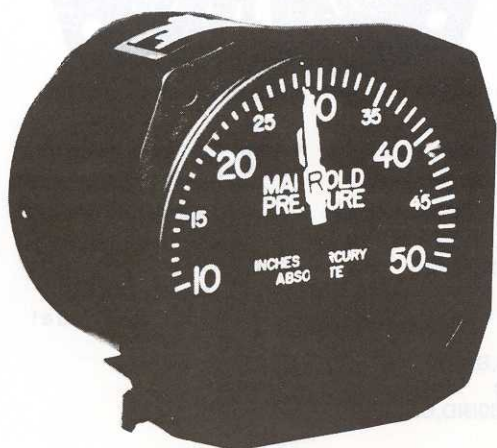
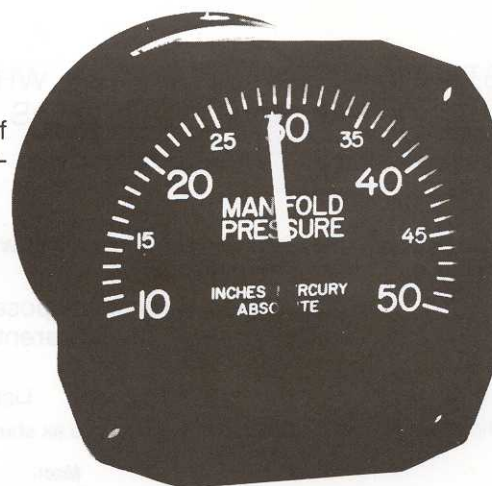
Manifold Pressure Single

N-1000

Manifold pressure is one of the factors required to obtain correct power setting of the aircraft engine. Indicator is temperature and altitude compensated. Interchangeable with AN5770-1.

Dim: 3-1/8 x 3-1/8 x 3
Weight: .7 lb. approx.
Power: Directly connected to engine

Range	P/N
10 to 35 in. Hg.	N-1000-3
10 to 50 in. Hg.	N-1000-1
10 to 60 in. Hg.	N-1000-2
10 to 75 in. Hg.	N-1000-4
15 to 100 in. Hg.	N-1000-5



Manifold Pressure Dual

N-2000

This manifold pressure gauge comprises two absolute pressure bellows assemblies separately connected to two independent concentric pointers, to enable two engines to be set to the same power setting. Interchangeable with AN5770-2.

Dim: 3-1/8 x 3-1/8 x 3
Weight: .8 lb. approx.
Directly connected to engine

Range	Pointers	P/N
10 to 50 in. Hg.	1 & 2	N-2000-1
10 to 60 in. Hg.	1 & 2	N-2000-2
10 to 50 in. Hg.	R & L	N-2000-3
10 to 60 in. Hg.	R & L	N-2000-4
10 to 75 in. Hg.	R & L	N-2000-5
15 to 100 in. Hg.	1 & 2	N-2000-6



Manifold Pressure — 2"

N-1005

A 2" diameter manifold pressure gauge indicating manifold pressure by means of a single pointer traversing a scale arc of approximately 270°.

Dim: 2-1/4 x 2-1/4 x 1-3/4
Weight: .5 lbs.
Range: 10 to 50 in. Hg.
Power: Directly connected to engine



Fuel Pressure Single — 3"

H-1000

This gauge has a bellows type mechanism housed in a 3" dia. case to accurately indicate the fuel pump pressure from the engine. Unit suitable for use in a pressurized aircraft.

Dim: 3-1/8 x 3-1/8 x 3
Weight: .8 lb. approx.
Power: Connected directly to engine
P/N H-1000 - Range 0-25 p.s.i.d.

Fuel Pressure/Fuel Flow (Autosyn)

H-437 Not Pictured.

High accuracy indicator of the autosyn type, intended to be used with transmitter P/N H-2300. Copy of Flow Chart from engine manual must accompany order if correct Fuel Flow markings are to be furnished. Also advise if pounds per hour or gallons per hour markings are desired.

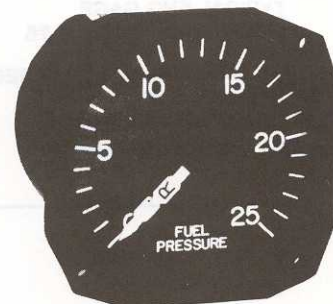
Dim: 3-1/8 x 3-1/8 x 5-1/2
Weight: Approx. 1.3 lbs.
Power: 26 VAC, 400 Hz, 1 ph.
Range: 0 to 25 p.s.i.d.
Connector: MS3106A-16S-1S

Fuel Pressure Dual — 3"

H-2000

Two bellows type mechanisms are housed in a 3" dia. case to give simultaneous indicators of fuel pump pressure from two engines. Interchangeable with AN5772-1.

Dim: 3-1/8 x 3-1/8 x 3
Weight: 1 lb. approx.
Power: Directly connected to two engines
Range: 0 to 25 p.s.i.d.



STANDARD DIAL COLOR IS WHITE. YELLOW AND PALE GREEN AVAILABLE AS WELL AS RANGE MARKS TO YOUR SPECIFICATIONS.

ENGINE INSTRUMENTS

STANDARD DIAL COLOR IS WHITE. YELLOW AND PALE GREEN AVAILABLE AS WELL AS RANGE MARKS TO YOUR SPECIFICATIONS.

Manifold Pressure and Fuel Flow

K-1000

A 3" dia. instrument containing two opposed-bellows mechanisms measuring manifold pressure and fuel differential pressure, and indicating by means of concentric pointers.

Dim: 3-1/8 x 3-1/8 x 3 Weight: 1 lb. approx. Lighted Bezel Available

The following dial combinations are available as standard stock items.

P/N	Engine	Man. Press. in. Hg.	RANGE Fuel Flow	P/N	Engine	Man. Press. in. Hg.	RANGE Fuel Flow
K-1000-1	10-540-C	10-35	0-24, 1 GPH	K-1000-16	10-320B,C,D	10-35	0-16 GPH
K-1000-2	10-520-K	10-35	4-24 GPH	K-1000-17	10-470N	10-35	0-22 GPH
K-1000-3	10-360-BIB,BID,BIE	10-35	2-18 GPH	K-1000-19	10-320B	10-35	0-96 PPH
K-1000-4	GTS10-520-F	10-45	100-300 PPH	K-1000-20	10-540G	10-35	5-31 GPH
K-1000-5	PA24-250 & PA24-260	10-35	9-22.6 GPH	K-1000-21	L&M 35 Bonanza	10-35	0-18 PSI (fuel press.)
K-1000-6		10-35	0-18 PSI (fuel press.)	K-1000-22		10-50	0-40 PSI (fuel press.)
K-1000-7	10-360-A,C,D	10-35	0-20 GPH	K-1000-23	10-520B,BA	10-35	2-24.3 GPH
K-1000-8	10-540-D.N.R.	10-35	0-27 GPH	K-1000-24	Metric cal.-10360BIB,BIB,BIE, BIF	4-1.2 KG/CM2	15-70 LPH
K-1000-9	10-540-K.L.M.	10-35	5-33 GPH	K-1000-25		10-35	0-30 GPH
K-1000-10	10-360-D	10-35	0-18.2 GPH	K-1000-26	For Cont. E225-8 Inj. conv.	10-35	0-23 GPH
K-1000-11	10-470-C thru U	10-35	0-24.3 GPH	K-1000-27	For Bonanza 35N & P	10-35	5-21 GPH
K-1000-12		10-40	0-15 PSI (fuel press.)	K-1000-29	Special Bonanza	10-35	0-20 GPH
K-1000-13	10-360-BID,BIB,BIE,BIF	10-35	20-110 PPH	K-1000-30	LYC TI0540-A,F,J,N,S,T	10-50	10-48 GPH
K-1000-14	10-720	10-50	4-40 GPH				



Engine Gauge

G-2000 Series

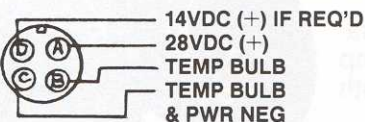
The triple engine gauge displays fuel pressure, oil pressure and oil temperature in one 3" diameter case. The pressure gauges are operated by direct connection to the appropriate system and the temperature by resistance bulb probe. Interchange with AN5773 Engine Gauge. Also available in °F.

Dim: 3-1/8 x 3-1/8 x 3
 Weight: Approx. 1.0 lb.
 Power: 14 or 28 VDC for Temp.
 Connector: MS3106A-14S-2S
 Range: Oil pressure - 0 to 200 p.s.i.
 Oil Temperature - -70 to +150°C
 Fuel Pressure - 0 to 25 p.s.i. G-2000-1
 Fuel Pressure - 0 to 35 p.s.i. G-2000+2

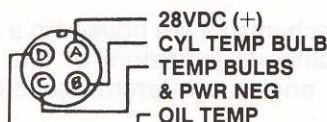


P/N G-2000-4 (Same as -1 except oil temp. in F°)
 P/N G-2000-5 (Same as -2 except oil temp. in F°)

TYPICAL ENG GAGE CONNECTOR 3106-14S-2S



TYPICAL DUAL TEMP ENG GAGE CONNECTOR 3106-14S-2S



ENGINE INSTRUMENTS



Engine Gauge

G-1000

Consists of three independent gauges contained within a standard 3" dia. case. Oil temperature and cylinder head temperature gauges are moving-coil meter movements operated by MS28034-1 and AN5546-1 resistance bulbs respectively. Connection for the temperature gauges is by cannon type connector: P/N MS3106A-14S-2S.

Dim: 3-1/8 x 3-1/8 x 3-3/4
Weight: 1 lb. approx.

Nomenclature

Oil Pressure	0 to 200 psi
Oil Temperature	50 to 250°F
Cyl. Hd. Temp.	100 to 500°F
Oil Pressure	0 to 200 psi
Oil Temperature	20 to 120°C
Cyl. Hd. Temp.	50 to 250°C

P/N

G-1000-1

G-1000-2

P/N

G-1000-3

G-1000-4

14 Volt DC:

Same range as G-1000-1

Same range as G-1000-2

Engine Gauge

G-3000 Series

Same as G-2000 Series, except powered by capillary temperature sender. (Not pictured).

G-3000-1 10# Fuel PSI

G-3000-2 25# Fuel PSI

Capillary length is optional



Cylinder Head Temp. (Dual)

P-2008

Millivoltmeter movement powered by the output from an Iron-Constantin thermocouple, bayonet or gasket type. 3" Dual scale indicator temperature compensated. Requires 8 ohm Iron-Constantin leads.

Dim: 3-3/8 x 3-3/8 x 2-5/8
Weight: 1.0 lbs. approx.
Power: I.C. Thermocouple
Range: 0 to 600° F.: P-2008
-20° to 300° C.: P-2008-1

Also available in copper-constantin

Cylinder Head Temp. Kit — 3"

P-203

Millivoltmeter movement, powered by the output from an Iron-Constantin thermocouple. 3" indicator temperature compensated. Comes with p/n 29-0218 2 ohm Iron-Constantin Thermocouple.

Dim: 3-3/8 x 3-3/8 x 2-5/8
Weight: .8 lb. approx.
Power: I.C. Thermocouple

Range

0-600°F
0-300°C
Combination °F & °C
Also available in copper-constantin

Kit P/N

P-203
P-203-1
P-203-2

Indicator P/N

P-2007
P-2007-1
P-2007-2

Cylinder Head Temp Kit — 2"

P-202 Single

Millivoltmeter movement, powered by the output from an Iron-Constantin thermocouple. 2" indicator temperature compensated. Comes with P/N P-0218 ohm Iron-Constantin thermocouple.

Range

Combination °F & °C
0 - 600°F
0 - 300°C

Kit P/N

P-202
P-202-1
P-202-2

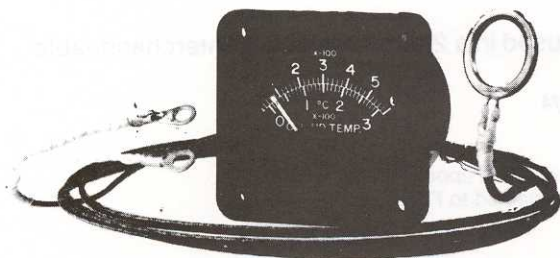
Indicator P/N

P-2006
P-2006-1
P-2006-2

INDICATOR ONLY P/N P-2006 - Dim: 2-1/4 x 2-1/4 x 2

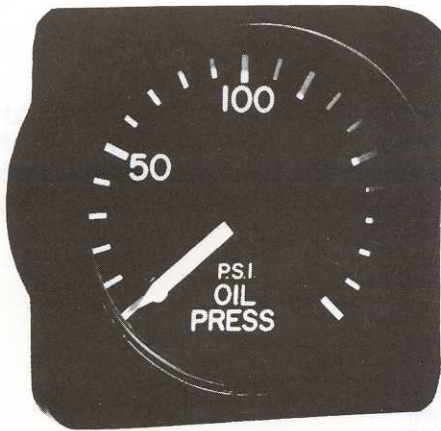
Dim: 2-1/4 x 2-1/4 x 2-1/4
Weight: .5 lb. approx.
Power: I. C. Thermocouple

THERMOCOUPLE ONLY P/N P-0218 -18 M.M. gasket Length: 5-1/2 ft.
P/N P-0218-02-14 M.M. gasket Length: 5-1/2 ft.



Also available in copper-constantin

PRESSURE GAUGES



Oil Pressure N-3110

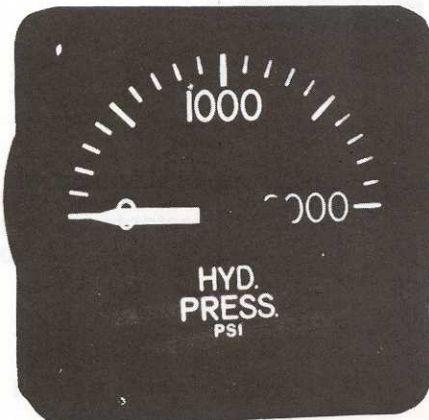
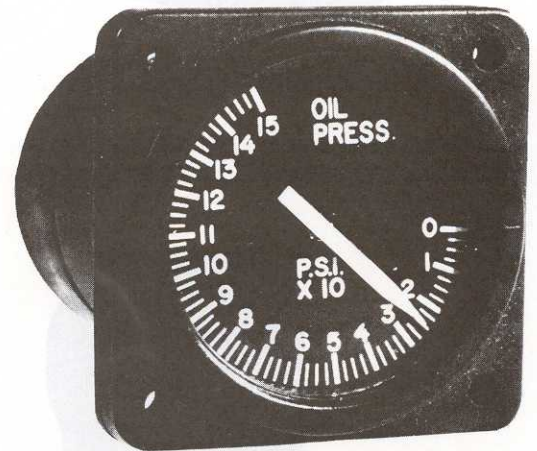
A Bourdon type mechanism housed in a 2" diameter case. Interchangeable with AN5771-2.

Dim: 2-1/4 x 2-1/4 x 1-3/4
Weight: Approx. .5lb.
Power: Directly connected to oil system.
Range: 0 to 200 p.s.i.

Oil Pressure (Autosyn- N-3100

High accuracy indicator of the autosyn type, intended to be used with transmitter P/N L-3000. Circular case may be mounted using MS28042 or MS28055 flange, optional.

Dim: 2" diameter x 3-3/4
Weight: Approx. .7 lbs.
Power: 26 VAC, 400 Hz, 1 ph.
Range: 0 to 150 p.s.i.



Hydraulic Pressure N-7000

A Bourdon type mechanism used to monitor the aircraft hydraulic system pressure. Interchangeable with AN5771-4.

Dim: 2-1/4 x 2-1/4 x 1-3/4
Weight: Approx. .5 lb.
Power: Directly connected to hydraulic service.
Range: 0 to 2000 p.s.i.



Fuel Pressure H-3000

A Bourdon type mechanism housed in a 2" diameter case. Interchangeable with AN5771-1.

Dim: 2-1/4 x 2-1/4 x 1-3/4
Weight: .5 lb.
Range: 0 - 25 lbs.
0 - 50 lbs. H-3002 available upon request.
Hook up directly connected to Fuel System.

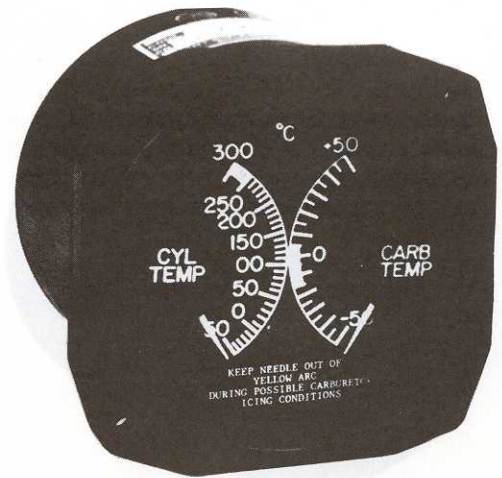
ENGINE INSTRUMENTS

Combination Carb. & Cyl. Temp. Kit

P-207

Two high-grade meter movements housed in a 3" case. One meter connected to an AN5546-1 resistance probe to measure cylinder head temperature, the other connected to a Richter B-5 resistance probe to measure carb. temperature. Kit includes: gauge, two probes, and necessary hardware, less leads.

Dim: 3-1/8 x 3-1/8 x 3-3/8
Weight: Approx. 1 lb.
Power: 14 or 28 VDC
Range: -50 to +300°C - Cylinder Head
-50 to +50°C - Carburetor
Connector: MS3106A-14S-5S

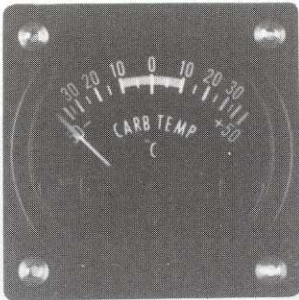


Carb. Temp. Kit (Single)

P-208

Gauge is designed to operate with the Richter B-5 probe, which is STC-approved for many light aircraft. Kit includes: gauge, B-5 probe and connecting hardware, less leads.

Dim: 2-1/4 x 2-1/4 x 3-3/8
Weight: 1 lb. approx.
Power: 14 or 28 Volts D.C.
Range: -50°C to +50°C



Carb. Temp. Indicator Only

P/N P-209

Carb. Temp. Kit

P-206 Dual

Two meter with Dual scales in a 3" diameter gauge for twin engine aircraft. Kit includes: gauge, two B-5 Probes and connecting hardware less leads.

Dim: 3-1/8 x 3-1/8 x 3-3/8
Weight: 1.4 lbs.
Power: 14 or 28 VDC
Range: -50 to +50

Carb. Temp. — Indicator only P/N P-2000

Oil Temp.

P-1000 Dual

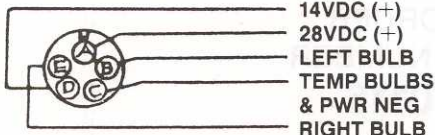
Meter movement in a 3" diameter case. Operated by MS28034-1 type resistance bulb. Interchangeable with AN5795-6.

Dim: 3-1/8 x 3-1/8 x 3-1/2
Weight: Approx. 1-1/2 lbs.
Power: 28 VDC
Range: -70 to +150°C
Connector: MS3106A-14S-5S



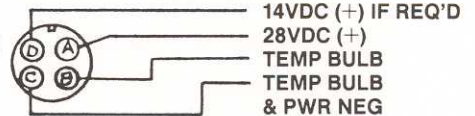
TYPICAL DUAL TEMP

CONNECTOR
3106-14S-5S

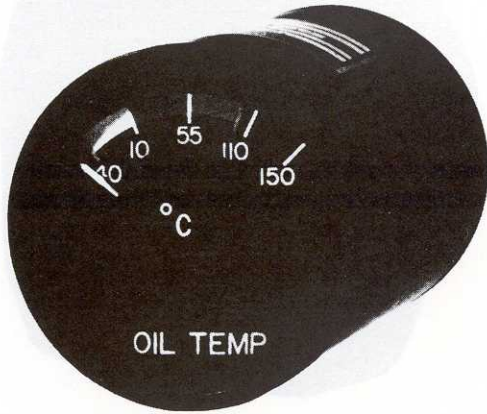


TYPICAL SINGLE TEMP

CONNECTOR
3106-14S-2S



ELECTRIC INSTRUMENTS



Oil Temp.

P-1004

Housed in a 2" diameter case, can be calibrated in C° or F°, operated by MS28034-1 resistance bulb. MS28055 mounting flange is optional.

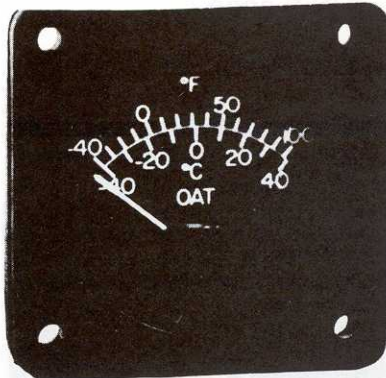
Dim: 2" diameter x 3.12" length
Weight: .4 lbs.
Power: 28 VDC
Connector: MS3112E8-4S

Cabin Air Temp.

P-4000

Moving coil meter movement housed in a 2" diameter case. Operated by MS28034-2 type resistance bulb.

Dim: 2-1/4 x 2-1/4 x 2-1/4
Weight: .5 lb.
Power: 14 or 28 VDC
Connector: MS3106A-14S-2S



Outside Air Temp.

P-3003

Moving coil meter movement housed in a 2" diameter case. Operated by MS28034-2 type resistance bulb.

Dim: 2-1/4 x 2-1/4 x 2-1/4
Weight: .5 lb.
Power: 14 or 28 VDC
Range: -45 to +50°C / -50 to 120°F
Connector: MS3102A-14S-2S

TO PLACE AN ORDER
CALL OUR "800" NUMBER
1-800-733-0116

REMOTE COMPASS INDICATOR

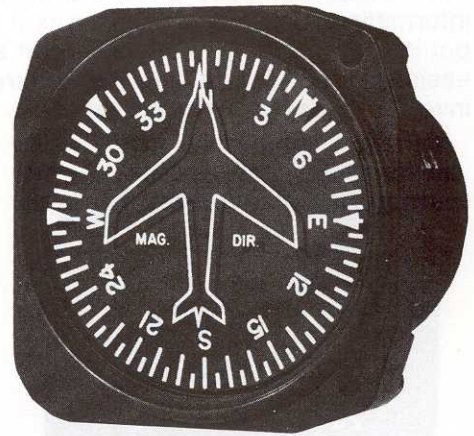
DIAL CONTEXT IS WHITE. YELLOW IF YOU REQUEST.

Rotating — 3"

F-111

The 3" indicator contains a servo-driven dial rotating behind an airplane symbol silk-screened to the rear surface of the cover glass. The indicator is not affected by local magnetic fields and may be mounted in any panel location.

Dim: 3-1/8 x 3-1/8 x 3-1/4
Weight: .5 lb. approx.
Power: 26 VAC 400 Hz. 1 ph.



Rotating — 2"

F-115

The 2" indicator contains a servo-driven dial rotating behind an airplane symbol silk-screened to the rear surface of the cover glass. The indicator is not affected by local magnetic fields and may be mounted in any position.

Dim: 2-1/4 x 2-1/4 x 3
Weight: .4 lb. approx.
Power: 26 VAC 400 Hz. 1 ph.

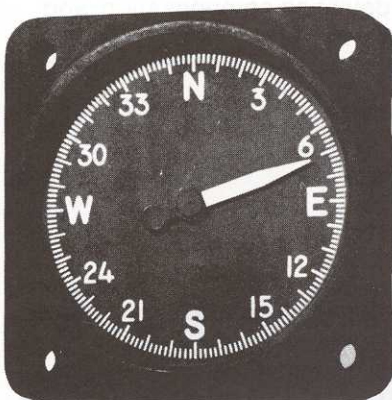


Fixed — 3"

F-100

The indicator contains a servo-driven pointer, and an independently mounted manually driven double pointer, rotating in front of a fixed 3" dial. The double pointer course indicator is set by a knob at the 7 o'clock position.

Dim: 3-1/8 x 3-1/8 x 3-1/4
Weight: .5 lb. approx.
Power: 26 VAC 400 Hz. 1 ph.
Interchangeable with AN5730-6, -7



Fixed — 2"

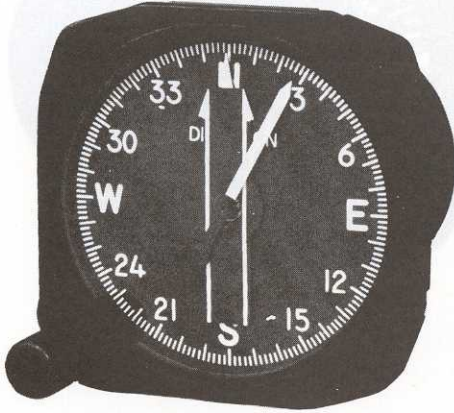
F-114

Same as F-115 except a servo-driven pointer rotating in front of a fixed 2" diameter dial. The indicator is not affected by local magnetic fields and may be mounted in any position.

Dim: 2-1/4 x 2-1/4 x 3
Weight: .8 lb. approx.
Power: 26 VAC 400 Hz. 1 ph.

REMOTE COMPASS KIT

The remote compass gives the pilot magnetic heading information in the same manner as a magnetic compass, but is much more stable in turbulent air, and is therefore easier to read. The kit consists of a transmitter, indicator, inverter, and necessary hardware.



A.



E.

Inverter, Solid State

14 or 28 VDC to 26 VAC, L-1100

(New Manufacture)

This long life, lightweight, noiseless, solid state inverter converts input DC voltage to 26VAC, for operating remote compass systems. Incorporates a radio noise filter to prevent interference with A.D.F. reception. Electrical connection is by Screw Terminals.

Dim: 3 x 2 x 2
Weight: .5 lb. approx.
Output: 26 VAC, 400 Hz, 1 ph., 10 VA

CONNECTOR:

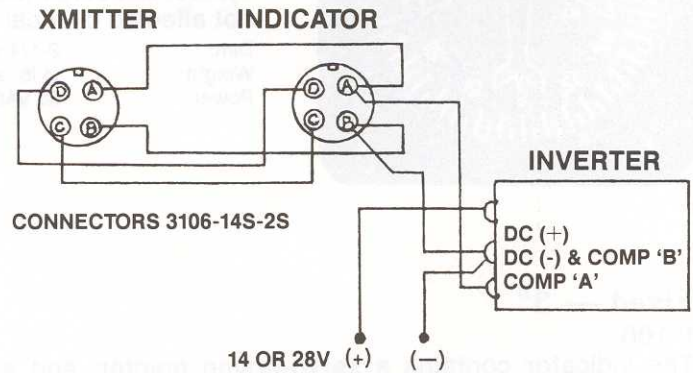
Input P/N
14 VDC L-1100-1A
28 VDC L-1100-2A

TERMINAL:

Input P/N
14 VDC L-1100-4A
28 VDC L-1100-5A

Voltage	Dial	Includes	P/N
14	2" fixed	E-D-F	F-106-1
14	2" Rotating	E-D-B	F-102-1
14	3" Fixed	E-D-A	F-105-1
14	3" Rotating	E-D-C	F-101-1
28	2" Fixed	E-D-F	F-106-2
28	2" Rotating	E-D-B	F-102-2
28	3" Fixed	E-D-A	F-105-2
28	3" Rotating	E-D-C	F-101-2

COMPASS WIRING DIAGRAM



TRANSMITTERS



D.

Remote Compass Transmitter

F-112

This unit contains the compass elements, including deviation compensation, and an alternating current motor to transmit signals to the indicator. The transmitter should be mounted well clear of magnetic elements in the aircraft, including ferrous materials.

Dim: 5-1/4 dia. x 5-3/8
Weight: 2.7 lbs. approx.
Power: 26 VAC 400 Hz. 1 ph.

Low Profile Transmitter

F-113

Same as the F-112 only with Low Profile as a space saver.

Dim: 4.64 x 2.875
Weight: 1.75 lbs.
Power: 26 VAC 400 Hz. 1 ph.



AIRPATH MAGNETIC COMPASSES

NOTE: AIRPATH NO LONGER SUPPLIES THE BRACKETS. OTHER COMPASSES AVAILABLE ON REQUEST.



2 Inch Compass

Standby

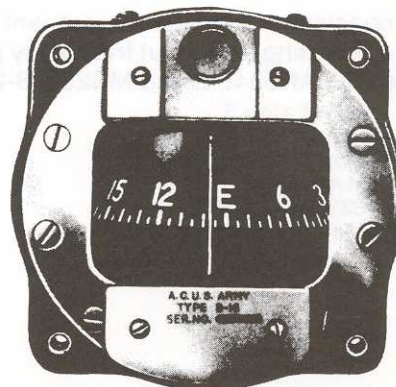
C-2400-L4P

The small standby compass is designed to be mounted in the instrument panel, or in any other convenient location, by means of mounting adaptors.

Dim: 2-1/4 dia. x 3. Compass only

Weight: .8 lb. approx.

List Price . . . See Your Distributor



3 Inch Compass

F-2010

The standard panel type magnetic compass is fluid damped and mounted in a 3" dia. case. It incorporates a thermal expansion chamber and compensating magnets.

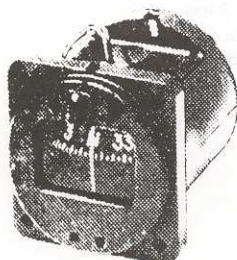
Interchangeable with AN5733-1

Dim: 3-1/8 x 3-1/8 x 4

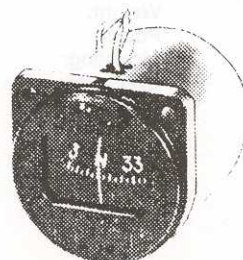
Weight: 1.5 lbs. approx.



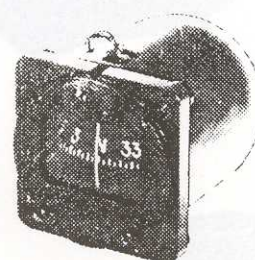
C-2300



C-2300-DL4



C-2350-DL4-CM



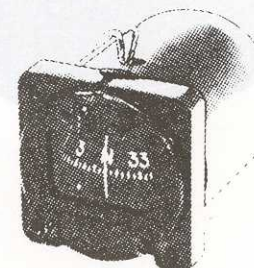
C-2350-L4i



C-2400-L4VFN



C-2400-L4VT



B-21-LS(18)

TACHOMETERS GENERATORS & TRANSMITTERS

Tachometer Generator

L-2001

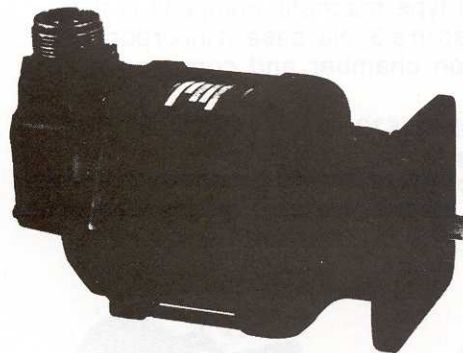
The generator consists of a 4-pole permanent magnet rotor and a 3-phase stator winding, generating an output frequency proportional to engine speed. Interchangeable with AN5547-2 and MS25038-2.

Dim: 2-1/2 x 3-1/4 x 5
Weight: Approx. 2.5 lbs.
Power: Directly coupled to engine.
Mounting: Pad mounting
Connector: MS3106A-10SL-3S
Many variations available - Check for specific types.



TACHOMETER GENERATOR 2 POLE
L-2010 Percent Type

This 2 pole pad mount tach generator is used on turbine engines for percent tachometers.

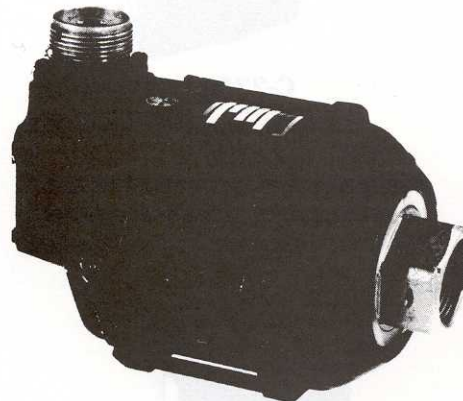


Tachometer Generator

L-2002

The generator consists of a 4-pole permanent magnet rotor and a 3-phase stator winding, generating an output frequency proportional to engine speed. Interchangeable with AN5531-1.

Dim: 3-1/8 x 3-1/2 x 5-3/4
Weight: Approx. 2.7 lbs.
Power: Directly coupled to engine.
Mounting: Pad Mounting
Connector: MS3106A-14S-1S



Tachometer Generator

L-2003

The generator consists of a 4-pole permanent magnet rotor and a 3-phase stator winding, generating an output frequency proportional to engine speed. Interchangeable with AN5531-2.

Dim: 3-1/2 x 3-5/8 x 4-3/4
Weight: Approx. 2.7 lbs.
Power: Directly coupled to engine.
Mounting: Swivel nut. 7/8 x 18 T.P.I.
Connector: MS3106A-14S-1S

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TACHOMETERS

Mechanical Tachometer — 2"

Q-1000

This 2 inch mechanical, cable drive, tachometer mounts in any standard 2" panel opening. Save panel space and maintain instrument accuracy standards. Pointer, numbers, letters and increments are matte white on dull black background.

Dim: 2-1/4 x 2-1/4 x 3-3/8
Weight: .11 lb.
Power: Cable driven



Tachometer Dual

Q-601

This tachometer indicator consists of two synchronous motors operating dual concentric pointers, to indicate the rotational speeds of two engines simultaneously. Interchangeable with AN5530-2.

Dim: 3-1/8 x 3-1/8 x 5
Weight: Approx. 1.5 lbs.
Power: Tachometer Generators
Range: 0 to 4000 RPM P/N Q-601-1
0 to 3500 RPM P/N Q-601-2
Connector: MS3106A-14S-1S



Tachometer Dual with Synchroscope

Q-500

This tachometer indicator consists of two synchronous motors operating dual concentric pointers. Any difference in speed of the two engines is indicated by rotation of the disc in the lower center of the dial. Interchangeable with AN5530-3A.

Dim: 3-1/8 x 3-1/8 x 5
Weight: Approx. 1.5 lbs.
Pointers: 1 & 2, L & R, F & R, 3 & 4
Power: Two Tachometer Generators
Connector: MS3106A-14S-1S



Mechanical Tachometer 3" (single)

Q-100

Cable drive with hour meter.



Dual Mechanical Tachometer 3"

Q-200

Cable drive.

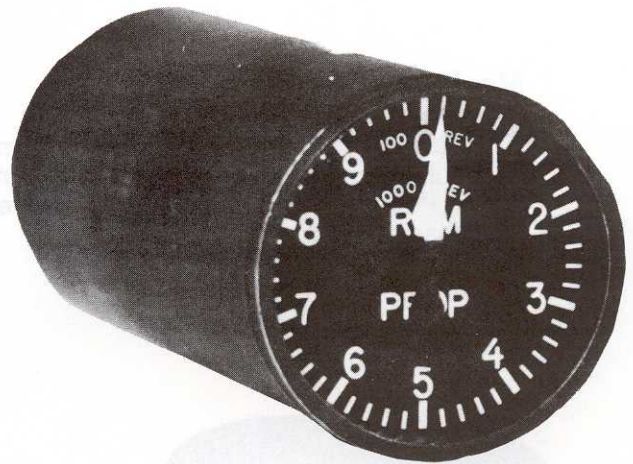
ENGINE INSTRUMENTS

Tachometer Prop. Single 2"

Q-365

This tachometer is a dual-pointer instrument in a hermetically sealed 2" diameter case. The dual pointers are mounted concentrically. One revolution of the large pointer indicates 1000 RPM, one revolution of the small pointer would indicate 10,000 RPM. MS28055 mounting flange is optional.

Dim: 2" diameter x 5"
 Weight: Approx. .5 lb.
 Power: Tach Generator
 Range: 0 to 2500 RPM (2100 RPM equals 4200 C.P.M.)
 Connector: MS3106A-10SL-3S



Tachometer Percent Single 2"

Q-366

This tachometer is a dual-pointer instrument in a hermetically sealed 2" diameter case. The large pointer indicates 0 to 100% over a 270° scale. The small pointer indicates units from 0 to 10% per revolution for precise readings. MS28055 mounting flange is optional.

Dim: 2" diameter x 5"
 Weight: Approx. .5 lb.
 Power: Directly connected to generator.
 Range: 0 to 100% (100% equals 4200 C.P.M.)
 Connector: MS3106A-10SL-3S



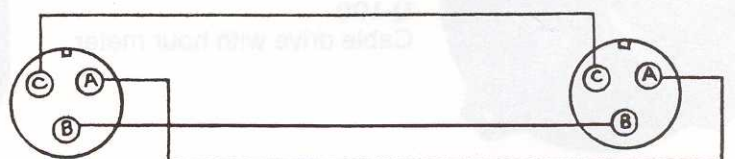
Single Prop. Tach.

Q-367

A single pointer prop tach. indicator housed in a 2" diameter hermetically sealed case. Standard ranges 0-2000 or 0-4000. Three phase alternating current synchronous motor, powered by a remote tach generator. MS28055 mounting flange is optional.

Dim: 2" diameter x 5"
 Weight: .7 lb.
 Power: Tach. Generator
 Connector: MS3106A-14S-52

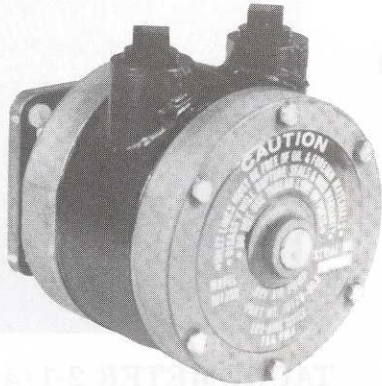
TYPICAL TACHOMETER SCHEMATIC BOTH CONNECTORS 3106-14S-2S



TACH GEN

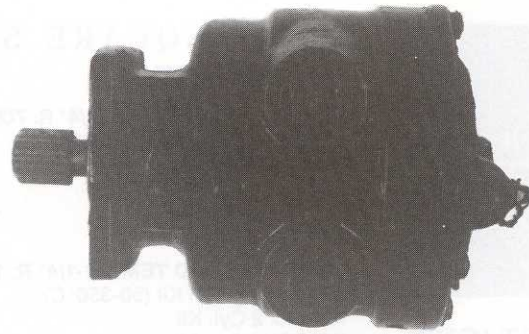
INDICATOR

VACUUM PUMPS



Dry Vacuum Pump

Sigma-Tek	IU128-B
Airborne	211CC
	212CW
240	
	441CC
	442CW
	842CW
	28C444CW-4
AND Others	



Wet Vacuum Pump

Garwin	450
	455
Pesco	3P-194
AND Others	

Suction Gauge

N-4000-2

A Bellow-type mechanism housed in a 2" diameter case. Used to monitor aircraft gyroscopic instrument systems. Interchangeable with AN5771-5.

Dim:	2-1/4 x 2-1/4 x 2-1/4
Weight:	Approx. .5 lb.
Range:	0 to 10 in. Hg.
Power:	Directly connected to vacuum system.



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Bendix King KAP 100/150, KFC 150 Autopilot System

Model Number	Description
KA 185.....	Annunciator Panel
KAA 15	Aural Alert
KAS 297B...	Altitude Selector
KEA 130A ...	Encoding Altimeter
KG 253.....	Attitude Gyro
KG 258	Attitude Gyro
KI 256	Flight Command Indicator

Bendix King KFC 200 Autopilot System

Model Number	Description
KA 285	Remote Annunciator
KA 51B	Slaving Accessory
KAS 297/A	Altitude Selector
KG 102A.....	Directional Gyro
KG 258	Attitude Gyro
KG 259 ...	Attitude Gyro
KI 255 ...	Flight Command Indicator
KI 256	Flight Command Indicator
KI 525A ...	Pictorial Navigation Indicator

Bendix King KFC 225 Autopilot System

Model Number	Description
KA 285	Remote Annunciator
KEA 130.....	Encoding Altimeter
KEA 346	Encoding Altimeter
KI 256	Flight Command Indicator
KI 525A	Pictorial Navigation Indicator

Bendix King KFC 300 Autopilot System

Model Number	Description
KSG 105	Directional

Bendix King KCS 55A Compass System

Model Number	Description
KA 51B	Slaving Accessory
KG 102A	Directional Gyro
KI 525A	Pictorial Navigation Indic

