P/N 145-10 Airspeed Indicator

Per Sequoia Aircraft Drawing No. 145, Detail H.

Approved instrument models:

(1) IFR 20-25 airspeed indicator marked as shown

(2) United Instruments UI8030-B806 airspeed indicator marked as shown

| | bood anspeed indicator marked as shown | |
|--|---|--|
| White arc: | 53 to 97.5 kts (flaps 20°) | |
| | 53 to 87 kts (flaps full) | |
| Green arc: | 65 to 161 kts | |
| Yellow arc: | 161 to 208.5 kts | |
| Red line: | 208.5 kts | |
| Maneuvering speed, acrobatic: | | |
| | 122 kts | |
| Gear speed: | 108.5 kts | |
| Dial colors (per Cessna CES-120 | | |
| White characters on black ba | | |
| Black: | FED-STD-595 Black, Color #37038 | |
| White: | FED-STD-595 White, Color #37875 | |
| Red: | FED-STD-595 Red, Color #38905 | |
| Green: | FED-STD-595 Green, Color #38901 | |
| Yellow: | FED-STD-595 Yellow, Color #38907 | |
| Characters: | , <u>, , , , , , , , , , , , , , , , , , </u> | |
| | pt Helvetica Medium numerals | |
| Letters "KNOTS": 12 pt Helvetica Medium caps | | |
| | retica Medium numerals & caps | |
| Letters "G, MU, MA": 6 pt Helvetica Medium caps | | |
| Graduation dimensions: | rerverieu ineurum eupo | |
| (Graduations centered on 1.900" dia) | | |
| Major graduations: .22" long x .03" wide | | |
| Minor graduations: .12" long x .02" wide | | |
| Red line: .25" long x .06" wide | | |
| Single width arc (green & yellow): .120" wide and centered on major graduations. | | |
| Multiple width arc (white): .120" wide and drop in .040" step where applicable. | | |
| maniple what are (white). | .120 while and drop in to jo step where applicable. | |
| | | |

P/N 145-11 Artificial Horizon

Approved instrument models:

(1) Instruments & Flight Research IFR-85. Blue and black colors

(2) R. C. Allen RCA 22

(Note. Sigma-Tek 23-501-06-16 is too long for the Falco.)

P/N 145-12A Altimeter

0 to 20,000 feet With barber pole Barometric setting: inches Hg Approved instrument models: (1) Instruments & Flight Research IFR-41-20 (2) United Instruments 5934P-1

P/N 145-13 Turn & Bank

12 volt
2 minute turn
Approved instrument models:

(1) Instruments & Flight Research IFR-52-12. White ball, Standard terminals.
(2) R. C. Allen RCA 56 supplied with MS3106A-10SL-3A connector

P/N 145-13A Turn Coordinator

11-30 volts DC, Not lighted.Approved instrument models:(1) R. C. Allen RCA 82, supplied with MS3106A-10SL-3A connector

P/N 145-13B Turn & Bank-2-1/4"

14 volts DC Approved instrument models: (1) A.I.D./R. C. Allen A1050-2, supplied with MS3106A-10SL-3A connector

P/N 145-15 Directional Gyro

Approved instrument models: (1) Instruments & Flight Research IFR-80 (2) R. C. Allen RCA 11A-8

P/N 145-15 Rate of Climb

0 to 2,000 feet per minute

Approved instrument models:

(1) Instruments & Flight Research IFR-33

(2) United Instruments 7000

P/N 145-16A Manifold Pressure/Fuel Pressure

(For Lvc. 0-320 series engines) Per Sequoia Aircraft Drawing No. 145, Detail G Approved instrument models: (1) IFR-50 marked as shown (2) R. C. Allen RCA 21-1000-12 marked as shown (3) R. C. Allen RCA 21-1000-16 marked as shown Manifold pressure: 10 to 35 inches Hg Fuel pressure: Red line: .5 psi Green arc: .5 to 8 psi Red line: 8 psi Dial Colors (per Cessna CES-1206 color chart): White characters on black background Black: FED-STD-595 Black, Color #37038 White: FED-STD-595 White, Color #37875 Red: FED-STD-595 Red, Color #38905 FED-STD-595 Green, Color #38901 Green: Needle colors: Black 12 pt Helvetica Medium caps on white background Characters: Numerals "0...8, 10...35": 18 pt Helvetica Medium numerals Letters "MANIFOLD PRESSURE, FUEL PRESSURE": 12 pt Helvetica Medium caps Letters "IN. HG, PSI": 8 pt Helvetica Medium caps Graduation dimensions:



Major graduations: .03" wide on 2.00" I.D. Minor graduations: .02" wide on 2.25" I.D. Red lines: .06" wide on 2.00" I.D. Green arc: on 2.25" I.D.

P/N 145-16B Manifold Pressure/Fuel Pressure

(For Lyc 10-320 series engines)
Per Sequoia Aircraft Drawing No. 145, Detail G
Approved instrument models:

(1) IFR-50 marked as shown
(2) R. C. Allen RCA 21-1000-12 marked as shown
(3) R. C. Allen RCA 21-1000-16 marked as shown
(4) United Instruments U16333-H190

Manifold pressure:

10 to 35 inches Hg

Fuel pressure:

0 to 7 psi
Red line:
7 psi

Dial colors, characters, graduation dimensions, etc. same as P/N 145-16A.

P/N 145-17 Tachometer

| Per Sequoia Aircraft Drawing No | o. 145, Detail F | | | |
|---|---------------------------------|--|--|--|
| Green arc: | 500 to 2,700 rpm | | | |
| Red line: | 2,700 rpm | | | |
| Hourmeter reading speed: | 2,400 rpm | | | |
| Dial colors (per Cessna CES-1206 color chart): | | | | |
| White characters on black background | | | | |
| Black: | FED-STD-595 Black, Color #37038 | | | |
| White: | FED-STD-595 White, Color #37875 | | | |
| Red: | FED-STD-595 Red, Color #38905 | | | |
| Green: | FED-STD-595 Green, Color #38901 | | | |
| Characters: | | | | |
| Numerals "535": 24 pt Helvetica Medium numerals | | | | |
| Letters "RPM": 12 pt Helvetica Medium caps | | | | |
| Characters "X100, ĤOURS, 1/10": 8 pt Helvetica Medium numerals & caps | | | | |
| Graduation dimensions: | | | | |
| Major graduations: .040" wide x .312" long | | | | |
| Minor graduations: .030" wide x .190" long | | | | |
| Red line: .060" wide x .312" long & centered on 2700 rpm | | | | |
| | - | | | |



P/N 145-18 Accelerometer

Per Sequoia Aircraft Drawing No. 145, Detail C Approved instrument models: (1) Instruments & Flight Research IFR-12 marked as shown (2) R. C. Allen RCA 10-100 marked as shown Green arc: +4.4 to -2.2g Red line (utility): +4.4 g Red line (acrobatic): +6 g -2.2 g Red line (utility): Red line (acrobatic): -3 g Dial colors (per Cessna CES-1206 color chart): White characters on black background Black: FED-STD-595 Black, Color #37038 White: FED-STD-595 White, Color #37875 FED-STD-595 Red, Color #38905 Red: Green: FED-STD-595 Green, Color #38901 Characters: Numerals "-4...12": 12 pt Helvetica Medium numerals Letters "ACCELERATION": 12 pt Helvetica medium caps Letters "G UNITS": 8 pt Helvetica Medium caps Letters "A, A, U, U": 6 pt Helvetica Medium caps Graduation dimensions: Major graduations: .03" wide on 1.50" I.D. Minor graduations: .02" wide on 1.60" I.D. Red lines: .06" wide on 1.40" I.D. Green arc: on 1.60" I.D.

P/N 145-19 Suction Gauge

U.M.A. Inc. 3-200-12 suction gauge Green arc: 4.5 to 5.4 inches Hg

P/N 145-20A Volt-Ammeter

(For use with 70 amp alternators) Per Sequoia Aircraft Drawing No. 145, Detail D Approved instrument models: (1) A.I.D. P/N 12-2004-7 marked as shown 0 to 80 amps 0 to 30 volts (Note: If possible a scale of 0 to 20 (or so) would be preferable for this 14 volt application.) Red line: 70 amps Yellow arc: 56 to 70 amps 0 to 56 amps Green arc: Dial colors (per Cessna CES-1206 color chart): White characters on black background Black: FED-STD-595 Black, Color #37038 White: FED-STD-595 White, Color #37875 Red: FED-STD-595 Red, Color #38905 FED-STD-595 Green, Color #38901 Green: Yellow: FED-STD-595 Yellow, Color #38907 Characters: Letters "ALT AMPS, VOLTS": 10 pt Helvetica Medium caps Numerals "O...80, 0...30": 10 pt Helvetica Medium caps Letters "PUSH FOR VOLTS": 6 pt Helvetica Medium caps Graduations dimensions: As per A.I.D. instrument Sender: P/N 116-62 Shunt (Empro MLA 80A-50MV), 80 amp, 50 millivolt rating. (For use with 60 amp alternators)

P/N 145-20B Volt-Ammeter

Per Sequoia Aircraft Drawing No. 145, Detail D Approved instrument models: (1) A.I.D. P/N 12-2004-7 marked as shown Same as P/N 145-20A except: Red Line: 60 amps Yellow arc: 48 to $\overline{60}$ amps Green arc: 0 to 48 amps Sender:

P/N 116-62 Shunt (Empro MLA 80A-50MV), 80 amp, 50 millivolt rating.

P/N 145-21 Engine Instrument Cluster

| /N 145-21 Engine Instrume | | |
|---|--|--|
| Per Sequoia Aircraft Drawing N | | |
| Rochester Gauges of Texas instr | | |
| CYLINDER HEAD TEMPERA | | |
| Green arc: | 150° to 435° F | |
| Yellow arc: | 435° to 500° F | |
| Red line: | 500° F | |
| OIL TEMPERATURE (P/N 145 | 5-23) | |
| Green arc: | 100° to 245° F | |
| Red line: | 245° F | |
| OIL PRESSURE (P/N 145-24) | | |
| Red line: | 25 psi | |
| Yellow arc: | 20 to 60 psi | |
| Green arc: | 60 to 90 psi | |
| Yellow arc: | 90 to 100 psi | |
| Red line: | 100 psi | |
| AMMETER (P/N 145-25) | - | |
| Marked as shown on drawing | | |
| FRONT FUEL GAUGE (P/N 1 | | |
| Red arc: | 0 to 3 gal | |
| Green arc: | 3 to 21 gal | |
| AFT FUEL GAUGE (P/N 145-2 | | |
| Red arc: | 0 to 3 gal | |
| Green arc: | 3 to 19-7/8 gal | |
| Dial colors (per Cessna CES-120 | 06 color chart) | |
| White characters on black b | ackground | |
| Black: | FED-STD-595 Black, Color #37038 | |
| White: | FED-STD-595 White, Color #37875 | |
| Red: | FED-STD-595 Red, Color #38905 | |
| Green: | FED-STD-595 Green, Color #38901 | |
| Yellow: | FED-STD-595 Yellow, Color #38907 | |
| Characters: | | |
| | EMP, OIL PRESS, AMPS, FRONT FUEL, AFT FUEL": | |
| 12 pt Helvetica Medium | | |
| | 00, 245, 25, 60, 100, -60, 0, +60, E, 5, 10, 15, 20, E, 5, 10, | |
| 15, °F, °F, PSI, 21 U.S. | | |
| 8 pt Helvetica Medium | numerals & caps | |
| Graduation dimensions: | | |
| All graduations .125" high and positioned on dial face as shown. | | |
| (Note: pilot's eye is 30° abo | ve horizontal plane.) | |
| Senders: | | |
| Cylinder head temperature: | | |
| | e Sensor (Rochester P/N 3080-00038, brass construction with | |
| 177S34 thermister 2%, range 200°F to 550°F) | | |
| Oil temperature: | | |
| | e Sender (Rochester P/N 3080-00037, brass construction with | |
| 117S3 thermister 2%, range 200°F to 250°F.) | | |
| Oil Pressure: | $(D_1 + D_1) = D_1 V D_2 (1, 0, 0, 0, 1) (1, 1, 2)$ | |
| | nsducer, (Rochester P/N XD0311-02001) (obsolete?) | |
| P/N 116-56(A?) Sender (Rochester R.G. 3080-0018 Sender, ("K" curve)/ | | |
| Ammeter: P/N 116-61 Shunt (Empro P/N MLA 80A-100 MV), 80 amp, 100 millivolt rating | | |
| | f_{1} f_{1} f_{1} f_{2} f_{3} f_{3 | |
| Front fuel gauge: P/N 729-13 Sender (Re | ochester P/N 7740-00320) | |
| P/N 729-13 Sender, (Rochester P/N 7740-00320) | | |



| Sender readings: | |
|--------------------|---------|
| Empty: | .1 Ohms |
| 3 gal: | 10 Ohms |
| 5 gal: | 18 Ohms |
| 10 gal: | 35 Ohms |
| 15 gal. | 58 Ohms |
| 20 gal: | 83 Ohms |
| Full (21-1/8 gal): | 91 Ohms |

Aft fuel gauge:

 P/N 728-10 Sender, (Rochester P/N 7740-00321)

 Sender readings:

 Empty:
 .2 Ohms

 3 gal:
 4.8 Ohms

 5 gal:
 14 Ohms

 10 gal:
 32 Ohms

 15 gal:
 56 Ohms

 Full (19-7/8 gal):
 86 Ohms

P/N 145-30 Compass

Approved instrument models: (1) Airpath C-2400-L4P1, 12 volt, lighted.

Notes:

(1) Instrument paint colors listed above are for FED-STD-595 numbers. These replace the previous color specifications, which were

| Color | FED-STD-595 numbers | Previous specification |
|---------|----------------------------------|------------------------|
| Black: | FED-STD-595 Black, Color #37038 | Dull black |
| White: | FED-STD-595 White, Color #37875 | Nazdar DL-112 |
| Red: | FED-STD-595 Red, Color #38905 | Switzer Bros. 66-13 |
| Green: | FED-STD-595 Green, Color #38901 | Switzer Bros. 66-18 |
| Yellow: | FED-STD-595 Yellow, Color #38907 | Switzer Bros. 66-46 |