

AERO *Commander* 680E

AERO COMMANDER 680E

HIGH, WIDE AND HANDSOME

HIGH . . . the familiar COMMANDER high wing design, built-like-a-bird, has gained the respect of the industry for its maximum stability, safety and comfort!

WIDE . . . the wider wing span of the 680E introduces a new standard in payload capacity for executive aircraft . . . superb performance and greater loads without sacrifice of long range.

HANDSOME . . . the sleek, good looks of the COMMANDER exterior, which convey perfectly the feeling of safe, smooth, fast motion, are carried inside to add pleasant graciousness to solid comfort!

YOU'LL APPROVE EVERY FEATURE of this remarkable aircraft and you'll know again why COMMANDER is the choice of men at the top.



PERFORMANCE DATA . . .



High Speed-rated power—10,000 feet	255 mph
Cruising Speed—70% rated power @ 10,000 feet	226 mph
Cruising Speed—65% rated power @ 15,000 feet	227 mph
Stall Speed—gear and flaps down—power off.....	71 mph
Stall Speed—gear and flaps up—power off	79 mph
Gross Weight	7,500 lbs.
Range—with 30 min. reserve @ 15,000 feet @ 55% rated power	1,400 miles
Range—maximum economy @ 15,000 feet	1,550 miles
Fuel Capacity—total usable	223 gal.
Service Ceiling—2 engines	25,360 feet
Single Engine Ceiling—feathered prop	14,300 feet
Rate of Climb—2 engines—S/L	1,525 ft./min.
Rate of Climb—1 engine—S/L	305 ft./min.
Take-off Distance to clear 50 ft. obstacle at S/L.....	1,570 feet
Landing Distance over 50 ft. obstacle at S/L	1,625 feet
ENGINES	Lycoming Supercharged GSO-480-B1A-6 340 hp-take-off

All performance is based on full gross weight and standard atmospheric conditions, unless otherwise stated. All speeds guaranteed within plus or minus 3%. All climbs, ranges and altitudes guaranteed with plus or minus 8%.



FLEXIBLE, FUNCTIONAL INSTRUMENTATION

PILOT'S PANEL

Air Speed
Turn and Bank
Attitude Gyro
Directional Gyro
Rate of Climb
Altimeter
Clock with Sweep
Second Hand
*Two Omni Indicators
*Localizer & Glide
Path Indicator
*Radio Magnetic Indicator
*Automatic Direction
Finder Indicator
Trim Tab Indicator
*Radar Controls
*Radar Scope

ENGINE PANEL

Tachometer (dual type)
Manifold Pressure Gauge
(dual type)
Two Engine Gauge units
(oil temperature, oil
pressure & fuel pressure)
Cylinder Head Temperature
Gauge (dual type)
Hydraulic Pressure Gauge
Vacuum Gauge
Two Fuel Quantity Gauges
Carburetor Air
Temperature Gauge
(dual type)
Supercharger Bearing
Temperature Indicator
(dual type)
Landing Gear Control and
Warning Lights

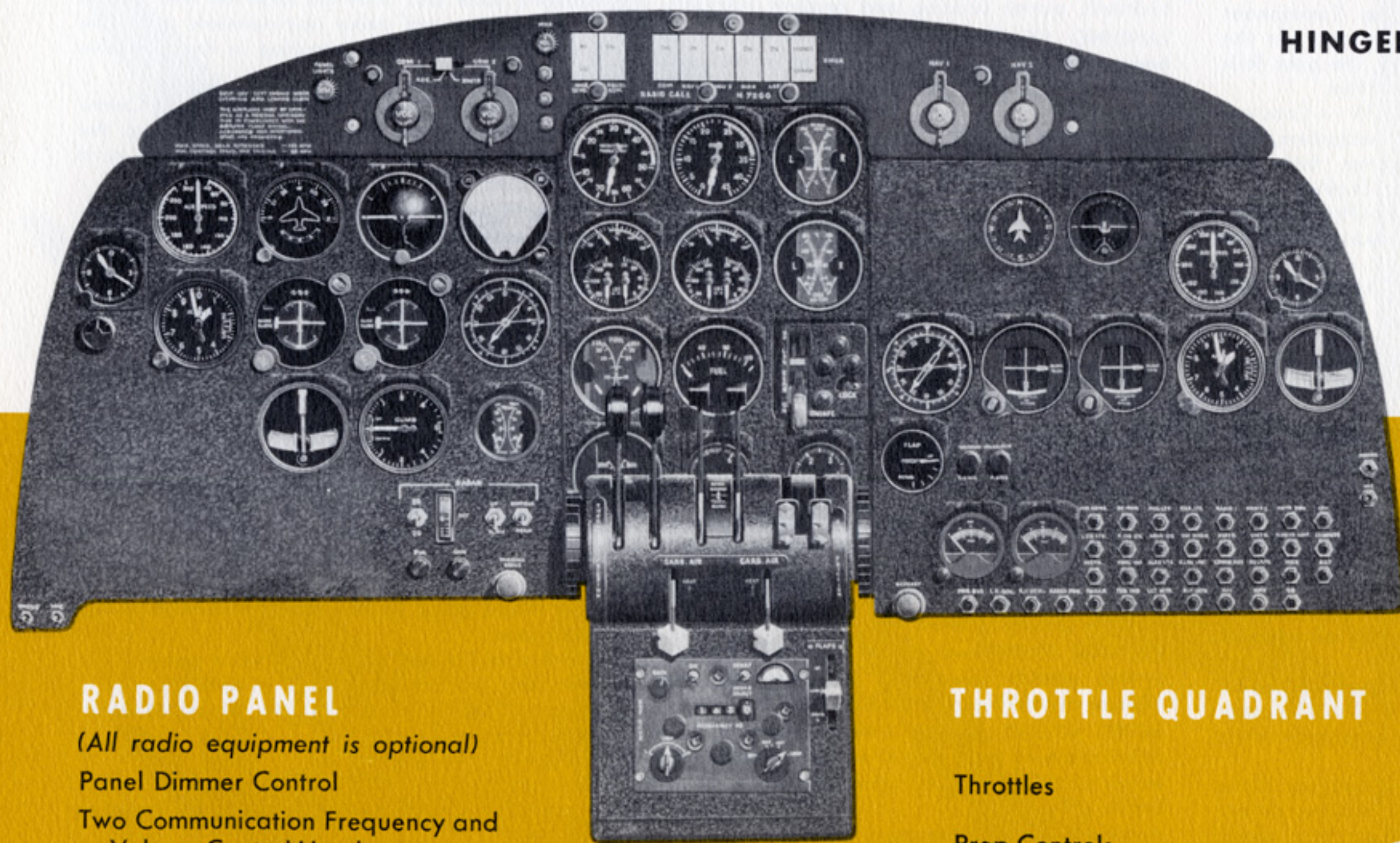
CO-PILOT'S PANEL

Air Speed
Turn and Bank
Attitude Gyro
Directional Gyro
Altimeter
Clock with Sweep
Second Hand
*Two Omni Indicators
*Localizer & Glide
Path Indicator
*Automatic Direction
Finder Indicator
Flap Position Indicator
*Radio Magnetic Indicator
Two Volt-Ammeters
Vacuum Warning Lights
Circuit Breaker Panel

***Optional Instrumentation**

NEW, TILT-DOWN 3 SECTION PANEL

HINGED FOR EASY ACCESS



RADIO PANEL

(All radio equipment is optional)

- Panel Dimmer Control
- Two Communication Frequency and Volume Control Heads
- 3-Light Marker Beacon Indicator with Volume Control
- Marker Hi-Lo Switch
- Communication Squelch Switch
- Audio Switch Panel
- Two Navigation Frequency and Volume Control Heads

THROTTLE QUADRANT

- Throttles
- Prop Controls
- Carburetor Controls
- Dual Friction Locks
- Flap Controls

* ADF Control Head

***Optional Equipment**



680E EQUIPMENT, Standard and Optional

STANDARD EQUIPMENT

LANDING GEAR

SAFETY FEATURE—A unique hydraulically operated landing gear system provides the greatest safety in the industry. Only the Commander incorporates a "fail safe" landing gear. In the event of loss of hydraulic pressure, the gear falls free and locks in landing configuration.

HARTZELL THREE BLADE PROPELLER — Constant speed full feathering all metal propellers, designed to deliver top performance from the Lycoming 340 h.p. Supercharged Engines.

DUAL HIGH SPEED GENERATORS—These Generators provide high capacity dual source reliability for the entire electrical system.

FUEL PUMPS—Two engine driven pumps plus two auxiliary electric pumps provide positive fuel pressure under all flight conditions.

VACUUM SYSTEM—Dual engine driven vacuum pumps provide two sources of vacuum energy for maximum safety in flight.

FUEL SYSTEM—Easy to manage simplified high capacity system (223 U. S. Gals.) provides longer range for the 680E.

FIREWALL FLUID SHUT-OFFS—Electrically actuated firewall shut-off valves for fuel, oil and hydraulic supplies are provided for maximum safety in flight.

PRIMERS—Electrically actuated, these primers insure quick, easy starting in all kinds of weather.

MISCELLANEOUS

NOSEWHEEL STEERING—Airline type power steering of the nosewheel enables the pilot to maneuver the aircraft with ease and assurance while taxiing.

POWER BRAKES—Airline type Goodyear three spot disc brakes insure positive braking action. Separate emergency brake system for added safety.

HYDRAULIC PUMPS—Dual engine driven hydraulic pumps for greater reliability.

HYDRAULIC HAND PUMP AND EMERGENCY BRAKE SYSTEM—Supply an additional source of hydraulic power braking and braking reliability.

LANDING LIGHTS—Two high intensity, sealed beam landing lights are positioned in the nose ahead of the pilot, clear of the propeller arc reflection.

INSTRUMENT LIGHTS—Functionally designed instrument panel incorporates the "Grimes" Eyebrow System and panel flood.

SEATING—Standard arrangement includes two luxuriously upholstered individual front seats and wide rear seat accommodating three persons with ease. This seat adjusts to full horizontal position. Padded **RETRACTABLE ARM RESTS** on all individual seats.

INTERIORS—Harmonious blending of luxurious fabrics and genuine leathers create an atmosphere of comfort and relaxation. There's a **LIGHTER** and **ASH RECEPTACLE** at EACH SEAT as well as individual combination **AIR VENTS** and **READING LIGHTS**.

HEATING SYSTEM—25,000 BTU Thermostatically controlled Janitrol Heater assures maximum passenger and crew comfort.

VENTILATING SYSTEM—High speed blower operated for ground comfort.

OXYGEN SYSTEM—Constant flow high pressure system permits passengers to enjoy the high altitude capabilities of the 680E.

SUPER SOUND PROOF CABIN — Double pane cabin windows and special sound absorbing materials contribute to the quiet restfulness of the cabin.

Automatic Light in Baggage Compartment. Manually operated **ENTRY DOOR LIGHT**.

OPTIONAL EQUIPMENT

LAVATORY COMPARTMENT with wash basin.

INTERIORS—Rich colorful leather upholstery with pleated seats and sidewalls together with custom styled fabrics and cabin appointments make the Commander interior outstanding in the executive aircraft field.

ADDITIONAL CHAIRS AND TRACKS — Center tracks and chairs are available changing the standard five place seating arrangement to a comfortable seven passenger aircraft.

ROTATING BEACON—The "Grimes" rotating beacon mounted on top of vertical stabilizer for night flying and flight under instrument conditions.

DE-ICER Boot installation for wing and empennage. Alcohol propeller de-icing system.

RCA AVQ-50 Weather Avoidance Radar.

AUTO PILOT, Lear L-2 w/automatic Altitude Control and ILS Flag alarm, Approach Coupler, Glide Path Receiver, Localizer and Deluxe Flight Controller.

Glass Windshield — hydraulically driven windshield wiper on pilot's side.

Co-Pilot's Storm Window

Pilot Curtains

Folding Table

Sun Visor, fitted to Windshield, full-width tinted Plexiglass

Additional Oxygen Bottle installed in system

Airspeed indicator calibrated in **KNOTS**

Visual Synchronizing Tachometer, in lieu of standard instrument

Engine Hour Meters (2 units)

Chromating inside wing

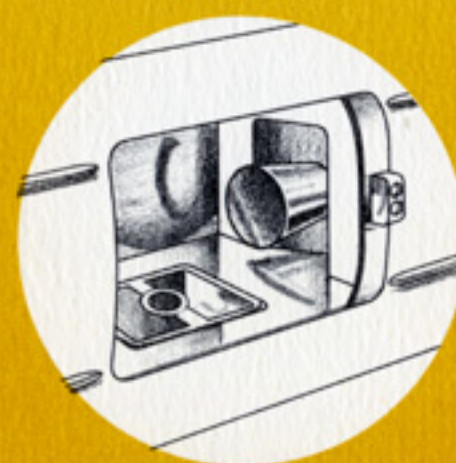
Chromating inside complete structure, including surfaces

Relief Tube

RETRACTABLE ARM RESTS



LIGHTER AND ASH TRAY AT EACH SEAT



READING LIGHT AND AIR VENT AT EACH SEAT



CHOICE OF 16 DISTINCTIVE COLOR COMBINATIONS



AN OPTIONAL DESIGN OF YOUR CHOICE CAN BE CREATED
UPON REQUEST.

DIMENSIONS

Cabin	
Height	53"
Width	52"
Distance forward cabin bulkhead to rear cabin bulkhead	127 1/2"
Cu. ft. in this area	177

Baggage Compartment	
Length	31"
Width	47"
Height	41"
Cu. ft.	32

Cabin Door Opening	
Height	43"
Width	26"

Baggage Door Opening	
Height	23 1/2"
Width	19 1/2"

Airplane	
Height	14'9"
Length	35 1/2"
Span	49'
Tread	12'11 1/2"

It is the policy of Aero Design & Engineering Co to improve the design and performance of the aircraft whenever possible. Therefore, specifications and prices are subject to change without notice.



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