



Cardinal

THE FIXED-GEAR CARDINAL FELL ON ITS FACE AND THE RG WAS THREATENING TO REPEAT THE ACT, BUT CESSNA'S MARKETING STRATEGY IS

"THE CARDINAL is the biggest threat yet | oughly to work off all the bugs. In producto the two-car family." Thus was Cessna's tion, though, things began to go wrong early days of 1968. To a lot of people's bushings, doors and windshields leaked. hasn't become the airplane in every fami- acteristics in slips with flaps down.

IV's garage.

proved to be a mistake.

development program, Cessna discovered liver 105 percent every day. that the Cardinal is a pilot's airplane, as opposed to the airplane-driver's machine growing optimism that 1972 will finally that the 172 is. This doesn't mean that only that it required a closer adherence to Cessna were up 12.5 percent in the first the basics than in a simple trainer or in quarter of the 1972 fiscal year over what the 172. The first Cardinals had a laminar went out the factory a year ago, but fixedairfoil, and so could not be driven into and gear Cardinal deliveries increased 55 perout of the airport at any speed between cent-more than four times the average 60 and 100 mph, and the stabilator re- for all models.

this had little trouble. Thomas Speer of the line were scrapped long ago, a "172 typical. He says they but a little extra ef- the first several Cardinal model years. fort into Cardinal checknuts and have en- With the 172 consistently selling at a rate joyed a profitable success with the air- of almost 1,000 a year, and the Cardinal plane from the beginning

Other operators had quite a different a mental block. quickly discovered that a Cardinal checkout required more work than one in a Sky- when a \$25,000 Skylane will carry more hawk. Since most rental clients had had at the same speed and for a greater disclimbing too steeply, something that had tive to it, and the RG as an alternative to probably never been demonstrated to the Skylane. This new philosophy makes

They would give renters the standard 172 and then watch in amazement as Cardinals overshot 3,000-foot airports, or flew hawk-a difference of some 17 percent. into the trees after takeoff from 2.000- but judged by the traditional indicators of

lem with production tolerances in those every day, the lack of real differences in first airplanes. The first prototype flew on raw transportation value between it and July 15, 1966, and from then until Octo- the fixed-year Cardinal have stood out like ber 1967, a string of prototype and pre- a sore thumb during my several flights in production airplanes were wrung out thor- them. With equal cabin loads, the Cardinal

All this led to a lengthy service letter. Those first Cardinals were nonethe- which has become infamous as Cessna's aircraft owners as early enthusiasm prom- wing leading edge, a slotted stabilator, ised they would be. Ask any family that I lower mechanical advantage in the stabilapresently owns one of the 1,164 Cardi- tor control circuit, a bigger engine, beefier nals manufactured that first model year: door hinges and a myriad of other engithey love them. But few of those first air- nearing changes, have made subsequent planes initially went to private owners. models of the Cardinal live up to the origi-Most were sold to fiver have operators for an an promise. But FROs most of whom exuse as rental and training aircraft along- ist on a profit margin of one or two perside Cessna's own 172/Skyhawk. That cent, tend not to forgive an airplane that In the earliest days of the Cardinal cially when they still have 172s, which de-

> be the year of the Cardinal. One reason is the sales picture. Total unit deliveries at

jerking and yanking that will suffice in oth- though, is a shake-out in philosophy at Cessna and among Cessna's dealers. Al-Those few operators who understood though plans for dropping the 172 from

> Introduction of the Cardinal RG last tion was: "Why pay \$30,000 for an RG

Base prices and raw statistics alone cost and performance. A fixed-gear Cardinal, for example, equipped for average In addition, Cessna ran into a prob- much more. Since I fly a Skyhawk almost



With its 189-hp Lycoming, constant-speed prop and a redesigned wing, the 1972 Cardinal offers performance to match its beauty

accelerates much faster and gets off a few high at that speed, so the corrected air-

closes that the airspeed reads four mph

speed was 127 mph for a true of 143. delivers an honest 128 mph. An increase

with equal equipment and full tanks, the Chevrolet Carpice with a Nova attitude.

better life style, luxury. The Cardinal gives

and a wing that's set well back, make it without a single undignified stoop, squat

appendages plano-hinged to the trailing lect control instead of the spring-loaded at 2,500 rom, those four foot-wide doors edges. The flaps are identical to those on the 210, and fuel tank vents are at the

na's top-of-the-line airplanes rather than

switch of the Skyhawk, a big plus in short-

gallons per hour. That's only a half gallon



the dome light. The fuel-shutoff valve is the possibility of going to "off" when higher-quality features until you begin to

\$3,500 more. With this attitude, a flight

dows. The amount of cabin room is six of one and a half dozen of the other when develop an unconscious habit of leaning stretch-out comfort, side visibility is ade-

such a nuisance to clip out of the way, it's cles to a short field. This isn't a critical cording to inside information. Cessna will there. In fact, I made several approaches go to inertial reels. The centers of the conbrake mechanism hanging below the left kept pace in this area; between the top It should be mentioned in passing that

ting it fired up again. The control wheels have bigger, more solid-feeling grips. Op-

The fixed-peer Cardinal has the tam- able goar is not worth the added mainte-

ground-handling charm of the original the nose year way forward in relation to neuvering in tight corners.

ably short; the Cardinal approach must be speed, and it leaves plenty of elevator to then try to plant the nosewheel with foraway.

Moving on to the Buicks in the line-

nance and insurance costs, the expenses

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The Cardinal continued from page 40

tals up to a considerable amount of mon-

Other than the retractable sear the 12 percent extra for the RG Cardinal buys a more modern and functional design. Like its fixed-year sister, the RG sits low rather than crawled under and climbed up into. Visibility from the RG is significantly better than from the Skylane, and the RG's smoother, strutless wing and tuckaway sear give it a five- to 10-mph edge. and a 35-fpm greater climb although its there on, though, the RG barely matches the Skylane and even loses a point or two

gives up both cabin and baggage room to the Skylane. More important, unlike the 177/172 comparison, in which the 177 imparts a marked feeling of higher quality, the RG gives up a measure of quality and comfort to the Skylane. Its four-cylingers think the engine is running rough noisy. All three RGs that I flew while compiling this report-an early 1971, a late polish and graciousness that the Skylane production life. Like its fixed-gear predecessor, the RG has its introductory prob lems in 1971. Chief among them was a come down. That was fixed with a modifitro-hydraulic retraction system. A flap problem was fixed with a redesign of the quires careful adjustment to avoid problems, so checkout in the RG should intion and soundproofing have been added behind the firewall to eliminate heat transfer into the cabin and hush the noise.

The most significant change was a releading-edge section. This, and removal of the fixed entry step, have resulted in a five-mph jump in cruising speed and a 65for increase in rate of climb. In my expewould indicate 139 knots, right at the bottom of the yellow, at 6,500 feet, 2,500 rom and full throttle (75 percent). The book gives a correction factor of minus 148. Book speed for the airplane under those conditions was 142 knots. The airplane was about 400 nounds under gross but my experience has been that the RG's

speed is little affected by weight. Anything above the minimum usually goes into the rear areas, which diminishes down-loads on the stabilator and balances out the extra drag. The '72 model I flew trued an even 150 knots at 2.500 rpm, full throttle and 7 500 feet. Book is 147. Coming. back to 2,350 rpm, I trued 145, three

knots above book The fuel-flow meter and the book both indicated that we were burning just over 10 gallons per hour. That makes the With average equipment and full tanks, there's about 755 pounds left for people and baggage. That's four average adults and 75 pounds in the baggage area. (The

range of 575 nautical miles VFR, 450 nautical IFR. Stall characteristics of the 1972 RG were interestingly a smidgeon model. Since the airframes are presumably identical, this must be due to a changed airflow caused by the open wheel wells. Whatever, the RG has stall characmistreat it enough, it tries to roll off into a spin (NOT approved in the RG), but relaxine on the stabilator and a shot of power rights everything instantly. The flush-riveted skins back to the spar (half the wing quick stall recovery.

those of the fixed-gear Cardinal. The airplane is heavier forward of the main goar. so it takes more of a pull to get it rotated on takeoff, and it has a heavier feel on the seem to matter. With 10 degrees of flaps. or no flaps, it lifts off smoothly with the barest hint of a pitch-up. When the gear comes up or down, there's a considerable just under your throttle-hand thumb takes. Flap changes have little effect on trim.

Bad landings seem not to be possible followed within reason. I used an RG re-

Riviera of Cessna's single-engine line. Being thoroughly practical, one wouldn't pay the \$3,500 extra for either of them; but then, being thoroughly practical, we'd all Save 50% - 75% WITH FULLY GUARANTEED

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