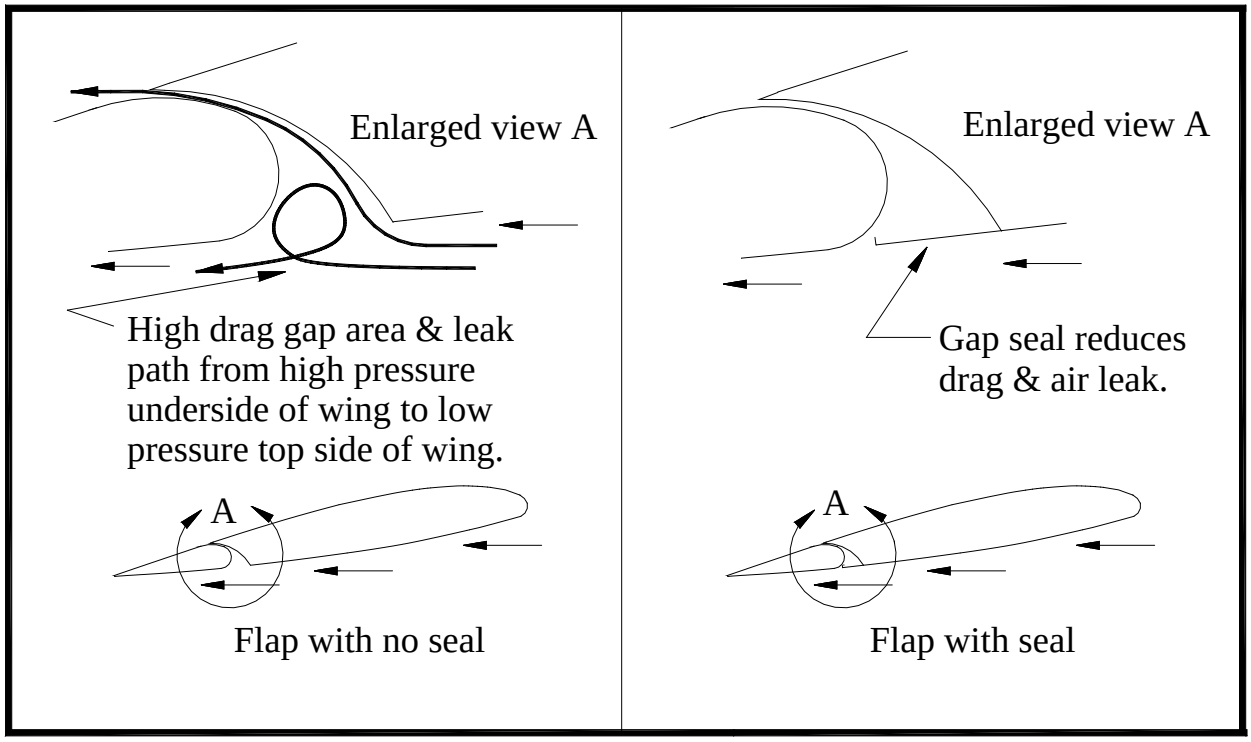
CESSNA FLAP GAP-SPEED KIT BY AD

What is a flap gap-speed kit? A flap gap speed kit consists of a gap seal on the lower flap gap that is an extension of the lower wing skin from the rear spar to the leading edge of the flap. The seal eliminate a high drag area plus reduce the amount of air leaking from the high pressure underside of the wing to the low pressure top side of the wing. The reduction in air leakage allows the wing to fly at a lower angle of attack for the same amount of lift, thus reducing drag. Please note Aircraft Development does not recommend installing a flap gap kit on those aircraft with wet wings because of the difficulty of resealing the wings to a gas leak free condition. This flap gap-kit is FAA STC'd and manufactured under a FAA PMA authority. Also available is a hardware kit 114H containing enough hardware to install the flap gap kit.

A FASTER FAST SPEED, A SLOWER SLOW SPEED: It was discovered in NASA reports and proven by our own flight testing, that closing the gaps between the wing and flap would decrease the drag and increase the lift. Following NASA's suggestions and fine tuning through flight testing we have achieved the faster top speed and the slower slow speed. This kit will not convert your aircraft into a STOL aircraft, however, depending on the exact model and condition of your aircraft you can expect an increase in top speed of about 2% and a decrease in stall speed of about 3%.



A HIGHER RATE OF CLIMB: For the same reasons given for the increase in top speed, you will get a higher rate of climb from your aircraft. Again depending on the exact model and condition of your aircraft, you can expect an increase in the rate of climb of about 2%.

GREATER RANGE: Because the wing is now more efficient with Aircraft Development's flap gap speed kit, you will get more range with your aircraft. You will have a choice of how to take advantage of this additional range. If you fly the aircraft at the throttle setting normally used and take full advantage of the speed increase, your range will increase by about 1.5% to 2%. However, if you want to take full advantage of the range increase your speed kit can give you, throttle back until your cruise speed was the same as before you had the speed kit installed. With this throttle setting you can have a range increase of from 2% to 3%.

MORE BENEFITS: The primary purpose of this kit was to aerodynamically clean up your airplane, and that is what this kit does. However, one not only gets these benefits of slower stall speed, higher rate of climb, etc. previously mentioned. But gets the side benefits of the fact that the slower stall speed and greater rate of climb add to the safety of take off and landings, by requiring less distance to take off and clear a 50 ft. obstacle. This does give you an additional margin of safety for the short field and high altitude take off and landings. It also increases the fuel efficiency of the aircraft. It is a fact that fuel costs are only going to increase in the future as oil supply diminishes and world consumption increases. Another very important benefit of this kit is it makes the aircraft more stall spin resistant, a factor that is prevalent in general aviation accidents.

AND EVEN MORE BENEFITS: If you combine Aircraft Development's flap gap seal kit with their aileron gap seal kit there will even be greater performance increases. With the flap gap seal and aileron gap seal kits installed you can expect an increase in top speed of about 2% to 4%, a decrease in stall speed of about 4%, an increase in rate of climb of about 2% to 4%, and an increase in range of about 4%. Naturally these combined benefits will further enhance your fuel economy.

CESSNA MODELS	**FLAP GAP KIT NO.**	**HARDWARE KIT NO.**
170B, 172 through 172Q, P172D, R172E through R172K, 172RG, 180 through 180K, 182 through 182R, 185 through 185E, A185F, 210-5, 210-5A, 210 through 210C.	114-100	114H

CESSNA MODELS	**FLAP GAP KIT NO.**	**HARDWARE KIT NO.**
150, A150, 152, A152	114-200	114H

TABLE OF FLAP GAP-SEAL KIT / FAA CESSNA MODEL APPROVAL

KIT NO.	FLAP GAP-SEAL KIT APPLICABLE TO CESSNA MODELS
114-200	150, 150A, 150B, 150C, 150D, 150E, 150F, 150G, 150H, 150J, 150K, A150K, 150L, A150L, 150M, A150M
114-200	152, A152
114-100	170B
114-100	172, 172A, 172B, 172C, 172D, 172E, 172F, (USAF T-41A) 172G, 172H, (USAF T-41A), 172I, 172K, 172L, 172M, 172N, 172P, 172Q
114-100	175, 175A, 175B, 175C, P172D, R172E (USAF T-41B), (USAF T-41C &D), R172F (USAF T-41D), R172G (USAF T-41C or D), R172H (USAF T-41D), R172J, R172K Known as 172XP, 172RG
114-100	180, 180A, 180B, 180C, 180D, 180E, 180F, 180G, 180H, 180J, 180K
114-100	182, 182A, 182B, 182C, 182D, 182E, 182F, 182G, 182H, 182J, 182K, 182L, 182M, 182N, 182P, 182Q, 182R, R182, T182, T182R, TR182
114-100	185, 185A, 185B, 185C, 185D, 185E, A185E, A185F
114-100	210-5 (205), 210-5A (205A)
114-100	210, 210A, 210B, 210C