

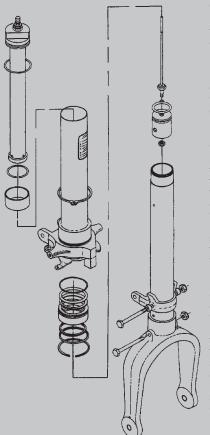
Landing and Nose Gear Nose Strut Parts

FAA-PMA Approved

Why Does My Cessna Nose Strut Keep Leaking Down? By Dave McFarlane

Cessna Nose strut "leak down" has plagued Cessna owners for the last 65 years. Why is it that a month after you reseal the nose strut you find the strut down again or just low and showing signs of a little MIL-5606 on the pretty chrome? It always happens on Sunday when no one is around to help you service it. You service it up the next week only to have it do it again next month. After several strut reseals most people just resign to servicing it often and consider it part of owning a Cessna. Piper and Beech struts do not leak down or need to be resealed often and they are high pressure!

With a strong belief that everything that goes wrong on an airplane has a reason that can be explained by physics, we did some research. It was observed that the low time leaking O-ring that was removed always showed signs of being slightly twisted and otherwise like new. Further experiments and close evaluations proved that the O-ring would twist from friction caused by an oxidized hydraulic fluid film on the chrome strut. You probably have noticed how MIL-5606 hydraulic fluid tends to dry and get sticky after it is exposed to air. Add a little runway dust to the back side of the strut and it really gets sticky. The low operating pressures of the Cessna strut does not put a lot of holding pressure to stabilize the sealing O-ring. It was observed that the sticky film on the chrome strut can grab and adhere to the O-ring during a normal strut action cycle. If the sticky film is not evenly dispersed on the strut, the O-ring is rolled a little on the filmy side only. This uneven rolling action puts a slight twist in the O-ring. This slight twist can break the normal seal between the strut and the



O-ring allowing a slow unpredictable leak. It seemed logical that if you lowered the friction on the O-ring surface you could eliminate the problem. A hunt was on for a low friction O-ring that would resist being rolled and would have good durability. After many experiments with Teflon® coated and other specialty O-rings only partial success was achieved. They either were not as durable or the sealing characteristics were not as good as the standard rubber O-ring.

A break finally came at Airventure Oshkosh when Tony Brand of Horsham Aviation Services located in Horsham, Victoria, Australia came by and explained how they solved the problem. They had observed the same twisting of the strut O-ring and went on to explain how they replaced the round O-ring with a square ("X" style) O-ring that can not rotate. The standard backup rings were simply reversed to match the square sides of the new style O-ring. The "X" O-rings have the same material as the standard ones. Brilliant! Why didn't we think of that!? We rushed home and changed all the O-ring seals in five of the airplanes on the field. One of them was our 152 trainer that takes a lot of abuse. We were going to find out if those innovative Aussies knew what they were talking about. Sure enough, that was almost five years ago and we have never had to service the nose strut (not even with air) on any of the aircraft with the square O-rings! My hat goes off to the boys from Down Under for saving the industry thousands of man hours every year and making the Cessna fleet more reliable! Thank you!

Our FAA-PMA seal kit, P/N MCSK172-1F now includes the square ("X" style) O-ring and instructions for reversing the back up rings.

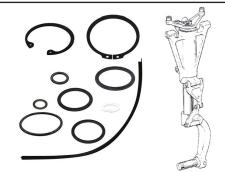
Main and Nose Strut Seal and Repair Kits for Piper Aircraft Vast Eligibility for Pipers: PA-22 thru PA-46 aircraft

McFarlane has main and nose, strut seal kits and repair kits for Piper aircraft. Kits are model and serial number specific giving you only the parts required, saving you time and money. All components are industry standard or original Piper parts.

- Save time and money!
- Reference your model and serial number for the best fit kit
- One kit = parts for one strut

PSS seal kits contain rubber and plastic parts. PSR repair kits contain the required PSS seal kit and commonly needed metal parts.





		Main Strut				Nose Strut				
Aircraft Model	Serial Number	Seal Kit	Qty	Repair Kit	Qty	Seal Kit	Qty	Repair Kit	Qty	
PA-22, PA-22-108, PA-22-135, PA-22-150, PA-22-160, PA-22S-135, PA-22S-150, PA-22S-160	All	N/A	N/A	N/A	N/A	PSS-KT-19	1	PSR-KT-31	1	
PA-23, PA-23-160	All	PSS-KT-3	2	PSR-KT-77	2	PSS-KT-3	1	PSR-KT-77	1	
PA-23-235, PA-23-250, PA-E23-250	All	PSS-KT-3	2	PSR-KT-14	3	PSS-KT-3	1	PSR-KT-14	3	
PA-24, PA-24-250, PA-24-260, PA-24-400	All	PSS-KT-1	2	PSR-KT-1	2	PSS-KT-1	1	PSR-KT-1	1	
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PA-28-151	All	PSS-KT-36	2	PSR-KT-58	2	PSS-KT-18	1	PSR-KT-26	1	

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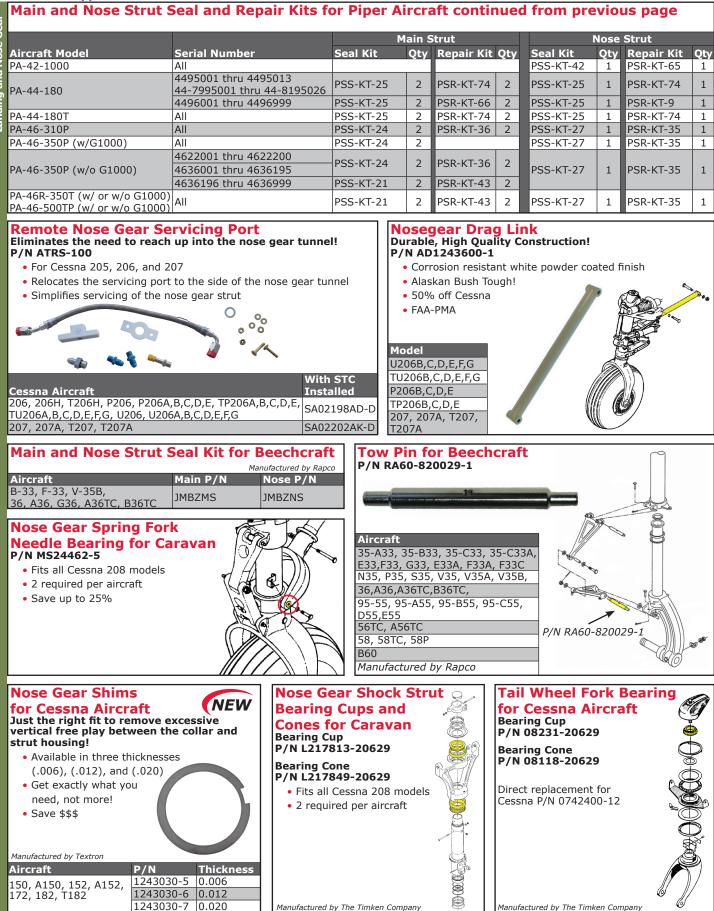
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		42-5501003 thru 42-5501060	DCC_VT 40	2	DCD VT CO	2	DCC VT 42	1 1		
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Use only when bearing has (1) O-ring on ID
Use only when bearing has (1) O-ring groove on ID
Use only when bearing has T-seal and backup ring or (1) O-ring with (1) backup ring
Used to replace O-ring and (1) backup ring or a T-Seal and (2) backup rings in ID



Landing and Nose Gear

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