



Aviation Investigation Final Report

Location:	Casa Grande, Arizona	Accident Number:	WPR23LA064
Date & Time:	December 9, 2022, 11:05 Local	Registration:	190DK
Aircraft:	ARADO-FLUGZEUGWERKE GMBH FW190 A-5	Aircraft Damage:	Substantial
Defining Event:	Loss of control on ground	Injuries:	1 None
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

The pilot of the tailwheel equipped airplane reported that, after executing a normal three-point landing and during the landing roll, the airplane swerved to the left. He attempted corrective action, however the airplane then swerved to the right. The pilot applied brakes, and the airplane ground looped, substantially damaging the right wing. The pilot reported that there were no preaccident mechanical malfunctions or failures with the airplane that would have precluded normal operation.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be:

The pilot's failure to maintain directional control during the landing roll.

Findings

Personnel issues	Aircraft control - Pilot
Aircraft	Directional control - Not attained/maintained

Factual Information

History of Flight

Landing-landing roll	Loss of control on ground (Defining event)
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Pilot Information

Certificate:	Commercial	Age:	59,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	Seat Occupied:	Single
Other Aircraft Rating(s):	None	Restraint Used:	4-point
Instrument Rating(s):	Airplane	Second Pilot Present:	
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	June 1, 2022
Occupational Pilot:	UNK	Last Flight Review or Equivalent:	October 13, 2021
Flight Time:	5529 hours (Total, all aircraft), 2 hours (Total, this make and model), 5488 hours (Pilot In Command, all aircraft), 58 hours (Last 90 days, all aircraft), 16 hours (Last 30 days, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	ARADO-FLUGZEUGWERKE GMBH	Registration:	190DK
Model/Series:	FW190 A-5	Aircraft Category:	Airplane
Year of Manufacture:	1943	Amateur Built:	
Airworthiness Certificate:	Experimental (Special)	Serial Number:	1134
Landing Gear Type:	Retractable - Tailwheel	Seats:	1
Date/Type of Last Inspection:	February 10, 2022 Condition	Certified Max Gross Wt.:	8700 lbs
Time Since Last Inspection:		Engines:	1 Reciprocating
Airframe Total Time:	12 Hrs at time of accident	Engine Manufacturer:	Shvetsov
ELT:	C126 installed, not activated	Engine Model/Series:	ASCH 82T
Registered Owner:	On file	Rated Power:	1900 Horsepower
Operator:	On file	Operating Certificate(s) Held:	None

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	Condition of Light:	Day
Observation Facility, Elevation:	KCGZ, 1464 ft msl	Distance from Accident Site:	
Observation Time:		Direction from Accident Site:	
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	/	Turbulence Type Forecast/Actual:	None / None
Wind Direction:		Turbulence Severity Forecast/Actual:	N/A / N/A
Altimeter Setting:	3014 inches Hg	Temperature/Dew Point:	11°C / 7°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	Casa Grande, AZ (KCGZ)	Type of Flight Plan Filed:	None
Destination:	Casa Grande, AZ (KCGZ)	Type of Clearance:	None
Departure Time:	10:00 Local	Type of Airspace:	Class E

Airport Information

Airport:	Casa Grande Municipal Airport KCGZ	Runway Surface Type:	Asphalt
Airport Elevation:	1464 ft msl	Runway Surface Condition:	Dry
Runway Used:	05	IFR Approach:	None
Runway Length/Width:	5200 ft / 100 ft	VFR Approach/Landing:	Full stop; Traffic pattern

Wreckage and Impact Information

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:		Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	32.96,-111.76

Administrative Information

Investigator In Charge (IIC):	Blocher, Kristyn
Additional Participating Persons:	Gary Hendrickson; Federal Aviation Administration; Scottsdale
Original Publish Date:	February 9, 2023
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.nts.gov/Docket?ProjectID=106443

The National Transportation Safety Board (NTSB) is an independent federal agency charged by Congress with investigating every civil aviation accident in the United States and significant events in other modes of transportation—railroad, transit, highway, marine, pipeline, and commercial space. We determine the probable causes of the accidents and events we investigate, and issue safety recommendations aimed at preventing future occurrences. In addition, we conduct transportation safety research studies and offer information and other assistance to family members and survivors for each accident or event we investigate. We also serve as the appellate authority for enforcement actions involving aviation and mariner certificates issued by the Federal Aviation Administration (FAA) and US Coast Guard, and we adjudicate appeals of civil penalty actions taken by the FAA.

The NTSB does not assign fault or blame for an accident or incident; rather, as specified by NTSB regulation, “accident/incident investigations are fact-finding proceedings with no formal issues and no adverse parties ... and are not conducted for the purpose of determining the rights or liabilities of any person” (Title 49 *Code of Federal Regulations* section 831.4). Assignment of fault or legal liability is not relevant to the NTSB’s statutory mission to improve transportation safety by investigating accidents and incidents and issuing safety recommendations. In addition, statutory language prohibits the admission into evidence or use of any part of an NTSB report related to an accident in a civil action for damages resulting from a matter mentioned in the report (Title 49 *United States Code* section 1154(b)). A factual report that may be admissible under 49 *United States Code* section 1154(b) is available [here](#).