





# **Aviation Investigation Final Report**

**Location:** Miami, Florida **Accident Number:** ERA23LA259

Date & Time: May 30, 2023, 10:07 Local Registration: N2447B

Aircraft: Cessna 172 Aircraft Damage: Substantial

**Defining Event:** Abnormal runway contact **Injuries:** 1 None

Flight Conducted Under: Part 91: General aviation - Instructional

### **Analysis**

The student pilot was conducting his first solo flight and the airplane was high on the final leg of the approach to land. He attempted to correct by reducing the engine power to idle. When he initiated the landing flare, the airplane bounced on initial touchdown and then porpoised on the runway. The underside of the fuselage sustained substantial damage during the landing. The pilot reported that there were no preimpact 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 improper landing flare, which resulted in substantial damage the airplane's fuselage.

#### **Findings**

Personnel issues Aircraft control - Pilot

Aircraft Landing flare - Not attained/maintained

## **Factual Information**

## **History of Flight**

Landing-flare/touchdown	Abnormal runway contact (Defining event)	
-------------------------	--	--

#### **Student pilot Information**

·			
Certificate:	Student	Age:	22,Male
Airplane Rating(s):	None	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	3-point
Instrument Rating(s):	None	Second Pilot Present:	No
Instructor Rating(s):	None	Toxicology Performed:	
Medical Certification:	Class 1 Without waivers/limitations	Last FAA Medical Exam:	April 18, 2023
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	30.8 hours (Total, all aircraft), 30.8 hours (Total, this make and model), 30.8 hours (Last 90 days, all aircraft), 30.8 hours (Last 30 days, all aircraft), 1.8 hours (Last 24 hours, all aircraft)		

#### **Aircraft and Owner/Operator Information**

Aircraft Make:	Cessna	Registration:	N2447B
Model/Series:	172 R	Aircraft Category:	Airplane
Year of Manufacture:	1999	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	17280801
Landing Gear Type:	Tricycle	Seats:	4
Date/Type of Last Inspection:	April 21, 2023 100 hour	Certified Max Gross Wt.:	2450 lbs
Time Since Last Inspection:	66.9 Hrs	Engines:	1 Reciprocating
Airframe Total Time:	12068.4 Hrs at time of accident	Engine Manufacturer:	Lycoming
ELT:	C91 installed, not activated	Engine Model/Series:	IO-360-L2A
Registered Owner:	SILVER EXPRESS CO	Rated Power:	160 Horsepower
Operator:	SILVER EXPRESS CO	Operating Certificate(s) Held:	Pilot school (141)
Operator Does Business As:	Flying Academy	Operator Designator Code:	

Page 2 of 4 ERA23LA259

## **Meteorological Information and Flight Plan**

Visual (VMC)	Condition of Light:	Day
TMB,6 ft msl	Distance from Accident Site:	1 Nautical Miles
09:53 Local	Direction from Accident Site:	191°
Clear	Visibility	10 miles
None	Visibility (RVR):	
8 knots /	Turbulence Type Forecast/Actual:	None / None
60°	Turbulence Severity Forecast/Actual:	N/A / N/A
29.88 inches Hg	Temperature/Dew Point:	29°C / 23°C
No Obscuration; No Precipitation		
Miami, FL	Type of Flight Plan Filed:	None
Miami, FL	Type of Clearance:	None
	Type of Airspace:	Class D
	TMB,6 ft msl 09:53 Local Clear None 8 knots / 60° 29.88 inches Hg No Obscuration; No Precipitation, FL	TMB,6 ft msl Distance from Accident Site:  09:53 Local Direction from Accident Site:  Clear Visibility  None Visibility (RVR):  8 knots / Turbulence Type Forecast/Actual:  60° Turbulence Severity Forecast/Actual:  29.88 inches Hg Temperature/Dew Point:  No Obscuration; No Precipitation  Miami, FL Type of Flight Plan Filed:  Miami, FL Type of Clearance:

## **Airport Information**

Airport:	MIAMI EXEC TMB	Runway Surface Type:	Asphalt
Airport Elevation:	10 ft msl	<b>Runway Surface Condition:</b>	Dry
Runway Used:	9L	IFR Approach:	None
Runway Length/Width:	5003 ft / 150 ft	VFR Approach/Landing:	Touch and go;Traffic pattern

### **Wreckage and Impact Information**

Crew Injuries:	1 None	Aircraft Damage:	Substantial
Passenger Injuries:	N/A	Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	1 None	Latitude, Longitude:	25.652919,-80.437958(est)

Page 3 of 4 ERA23LA259

#### **Administrative Information**

Investigator In Charge (IIC):	Spencer, Lynn
Additional Participating Persons:	Gordon Morris; FAA/FSDO; Miramar, FL
Original Publish Date:	July 7, 2023
Last Revision Date:	
Investigation Class:	Class 4
Note:	The NTSB did not travel to the scene of this accident.
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=192325

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.

Page 4 of 4 ERA23LA259