



Aviation Investigation Final Report

Location: El Monte, California Accident Number: WPR19LA247

Date & Time: August 31, 2019, 11:05 Local Registration: N551WH

Aircraft: Cessna 510 Aircraft Damage: Substantial

Defining Event: Runway excursion **Injuries:** 2 Minor

Flight Conducted Under: Part 91: General aviation - Personal

Analysis

The pilot reported that, while holding short of the runway, he set the parking brake while waiting for his takeoff clearance. Upon receiving takeoff clearance, he reached down to the parking brake handle and, "quickly pushed the parking brakes back in"; however, he did not visually verify that he disengaged the parking brake. During the takeoff roll, he noticed that the airplane was not accelerating beyond about 70 knots and decided to abort the takeoff. The airplane subsequently veered to the left, exited the departure end of the runway, and impacted an airport perimeter fence.

The pilot reported that he must have not fully disengaged the parking brake before takeoff and that there were no mechanical issues with the airplane that would have precluded normal operation. Postaccident examination of the airplane revealed that the parking brake handle was partially extended, which likely resulted in the airplane's decreased acceleration during the takeoff roll.

Probable Cause and Findings

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

The pilot's failure to disengage the parking brake before takeoff, which resulted in decreased acceleration and a subsequent runway overrun following an aborted takeoff.

Findings

Personnel issues
Use of equip/system - Pilot
Personnel issues
Incomplete action - Pilot

Aircraft Brake - Unintentional use/operation

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Factual Information

On August 31, 2019, about 1105 Pacific daylight time, a Cessna 510 airplane, N551WH, was substantially damaged when it was involved in an accident near El Monte, California. The airline transport pilot and passenger sustained minor injuries. The airplane was operated as a Title 14 *Code of Federal Regulations* Part 91 personal flight.

The pilot reported that, while holding short of the runway while waiting for his takeoff clearance, he set the parking brake. Upon obtaining his takeoff clearance, he reached down to the parking brake handle and, "quickly pushed the parking brakes back in." During the takeoff roll, he noticed that the airplane was not accelerating beyond about 70 knots and decided to abort the takeoff. The airplane subsequently veered to the left, exited the runway, impacted a fence, and came to rest upright about 800 ft beyond the departure end of the runway. The pilot stated that he must not have pushed the parking brake handle all the way in, and that he never visually verified its position before takeoff. The pilot further reported that there were no mechanical issues with the airplane that would have precluded normal operation.

Examination of the airplane by a Federal Aviation Administration inspector revealed that the airplane came to rest upright at the airport perimeter fence. The fuselage and both wings were structurally damaged. The inspector observed the parking brake handle partially extended, and when he pulled the handle, it moved about 1/2-inch.

History of Flight

Takeoff-rejected takeoff	Runway excursion (Defining event)
Takeoff-rejected takeoff	Collision with terr/obj (non-CFIT)

Pilot Information

Certificate:	Airline transport; Commercial	Age:	62,Male
Airplane Rating(s):	Multi-engine land	Seat Occupied:	Left
Other Aircraft Rating(s):	None	Restraint Used:	5-point
Instrument Rating(s):	Airplane	Second Pilot Present:	Yes
Instructor Rating(s):	None	Toxicology Performed:	No
Medical Certification:	Class 2 With waivers/limitations	Last FAA Medical Exam:	
Occupational Pilot:	No	Last Flight Review or Equivalent:	
Flight Time:	2217 hours (Total, all aircraft), 477 hours (Total, this make and model), 1945 hours (Pilot In Command, all aircraft), 28 hours (Last 90 days, all aircraft), 10 hours (Last 30 days, all aircraft)		

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Aircraft and Owner/Operator Information

Aircraft Make:	Cessna	Registration:	N551WH
Model/Series:	510	Aircraft Category:	Airplane
Year of Manufacture:	2008	Amateur Built:	
Airworthiness Certificate:	Normal	Serial Number:	510-0055
Landing Gear Type:	Retractable - Tricycle	Seats:	6
Date/Type of Last Inspection:	Unknown	Certified Max Gross Wt.:	8645 lbs
Time Since Last Inspection:		Engines:	Turbo fan
Airframe Total Time:		Engine Manufacturer:	Pratt & Whitney Canada
ELT:	Installed, not activated	Engine Model/Series:	PW615F-A
Registered Owner:		Rated Power:	1460 Lbs thrust
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:	KEMT,296 ft msl	Distance from Accident Site:	1 Nautical Miles
Observation Time:	17:45 Local	Direction from Accident Site:	189°
Lowest Cloud Condition:	Clear	Visibility	10 miles
Lowest Ceiling:	None	Visibility (RVR):	
Wind Speed/Gusts:	3 knots /	Turbulence Type Forecast/Actual:	1
Wind Direction:	150°	Turbulence Severity Forecast/Actual:	1
Altimeter Setting:	29.94 inches Hg	Temperature/Dew Point:	28°C / 17°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:	El Monte, CA (EMT)	Type of Flight Plan Filed:	IFR
Destination:	Thermal, ID	Type of Clearance:	IFR
Departure Time:	11:05 Local	Type of Airspace:	Class D

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Airport Information

Airport:	SAN GABRIEL VALLEY EMT	Runway Surface Type:	Asphalt
Airport Elevation:	295 ft msl	Runway Surface Condition:	Dry
Runway Used:	01	IFR Approach:	None
Runway Length/Width:	3995 ft / 75 ft	VFR Approach/Landing:	None

Wreckage and Impact Information

Crew Injuries:	2 Minor	Aircraft Damage:	Substantial
Passenger Injuries:		Aircraft Fire:	None
Ground Injuries:	N/A	Aircraft Explosion:	None
Total Injuries:	2 Minor	Latitude, Longitude:	34.092498,-118.031112

Administrative Information

Administrative information				
Investigator In Charge (IIC):	Cawthra, Joshua			
Additional Participating Persons:	Steve Sonneson; Federal Aviation Adminsitration; Los Angeles, CA			
Original Publish Date:	April 1, 2022	Investigation Class:	3	
Note:	The NTSB did not travel to the scene of this accident.			
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=100176			

The National Transportation Safety Board (NTSB), established in 1967, is an independent federal agency mandated by Congress through the Independent Safety Board Act of 1974 to investigate transportation accidents, determine the probable causes of the accidents, issue safety recommendations, study transportation safety issues, and evaluate the safety effectiveness of government agencies involved in transportation. The NTSB makes public its actions and decisions through accident reports, safety studies, special investigation reports, safety recommendations, and statistical reviews.

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