

Air Safety Investigations Aircraft Incident/Accident Technical Report

Aircraft Incident/	Year: 1959	Make: Cess	sna	Model: 175			
Accident Information	Serial number: 55884		Registration:	N7584M			
Location: Reserve, NM			Time: 1100 MDT				
Aircraf	ft Owner	Aircraft Operator					
Harry A. Pecotte		Same as Aircraft Owner					
Silver City, NM 88061-664	16						
Report Information							
Senior Air Safety Investiga	tor: Peter J. Basile	Report #: ASI-21-CW-T Report date: 01-03-2					

Airframe

Impact Sequence and Airframe Structure

The wreckage path from the initial tree strike to the fuselage was about 100' long on an approximately 090° heading. The leading edge of the left and right wing sustained tree impact damage. The aircraft came to rest on the left side of the fuselage with the partially separated left wing bent backwards and sticking up in the air. The fuselage sustained minimal fragmentation and appeared to impact the trees and terrain at a slow airspeed.



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Airframe Systems

<u> </u>								
Flight Control System Information								
Control lock: Found loose in aircraft								
Flight Control Cable Continuity								
Ailerons: Estab	lished	Elevators: Established	Rudder: Established					
Aileron tab: No	t applicable	Elevator tab: Established	Rudder tab: Not applicable					
Flap and Trim Positions								
Flap indicator: Not applicable Flap handle: 20° extended Flap actuator: Not applicable								
Elevator trim: Indicator: Between neutral and full nose down								

Remarks:

Flight control cable continuity was established for all flight controls. The manual flap handle was found in the 20° extended position. The elevator trim tab actuator indicated the tab was about 5° tab up.

Airframe Fuel System Condition, Controls, and Read Outs								
Fuel strainer screen: Und	determined		Fuel strainer bowl: Undetermined					
Main fuel tank gauge:	Left: Empty		Right: I	Empty				
Fuel selector handle: Bot	:h	Fuel selector valv	ve: Undetermined					

Remarks:

None.



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	Landing Gear System Condition and Controls									
Gear position: Nose: Fixed Left: Fi					Left: Fixed Righ			ht: Fixed		
Environmental System Controls and Read Outs										
Cabin heater: Off			Cabin vent: On			Defrost:	Not applicab	ole		
Air conditioner: No	t applicab	le	Oxygen system: 1	Not applicable Oxygen quantity: Not applicable				t applicable		
	Icing System Information and Switches									
Certified into know	n icing? N	lo		De-icing boots installed? No						
Pitot heat: Not app	licable			Stall heat: Not applicable						
Anti-ice: Surface	: Not appl	licable	Propeller:	Not applicable Windshield: Not applicable				applicable		
•	ELT Information									
Installed? Yes Manufacturer: Leigh Systems Inc.				Model: 7B-1-123 Type: AP						
Serial number: 9116 Battery due date: 05-23				Armed: Undetermined Activated: Undeter			Undetermined			

Remarks:

The landing gear remained attached to the aircraft and sustained minimal damage.

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Cabin and Equipment/Furnishings

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	Restraint System Information									
Seat	Occupied Restraint type used Condition Manufacturer									
1	Yes	2-Point	Undt	Normal	Non-OEM					
2	Yes	2-Point	Undt	Normal	Non-OEM					
3	Undt	2-Point	Undt	Normal	Undetermined					
4	Undt	2-Point	Undt	Normal	Undetermined					

	Seat Condition Information											
Seat	Orientation Feet intact Back intact Base intact Rail intact											
1	Forward facing	Yes	Yes	Yes	Yes							
2	Forward facing	Yes	Yes	Yes	Yes							
3	Forward facing	Yes	Yes	Yes	Not applicable							
4	Forward facing	Yes	Yes	Yes	Not applicable							

Remarks:

The seats remained attached to the floor assembly. Passenger seating positions were undetermined. The aircraft was equipped with lap belts; all lap belts were found unbuckled.



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Instrument Panel

Navigation Instruments												
Analog p	rimary iı	nstru	ments				Autopilot type: None					
Suction g	age: U	ndt		ľ	Magnetic co	ompass: 205° Clo			Clo	ock: Undt		
Left side									Left side			
Airspeed		0				Turn	coordinato	or (airplane	e):	Left		
Attitude (pitch):	10	° Up			Turn	coordinato	or (ball):		Full Left		
Attitude (roll):	>9	0° Left			Head	ling indicat	or:		070°		
Altimeter		7,7	760'			Head	ling "bug":			N/A		
Altimeter	setting:	30	.05			Vertic	cal speed i	ndicator:		~700' Up		
				Con	nmunicati	on ar	nd Naviga	ation Rad	dios	5		
Radio	Contro	I	Active freque	ency	Stand-by frequency		Radio	Control	A	Active frequency	Stand-by frequency	
Com 1:	On		Digi		Digi		Com 2:	On	1	122.80	126.72	
Nav 1:	On		Digi		Digi		Nav 2:	On	1	110.80	108.60	
Obs 1:	325						Obs 2:	0bs 2: 020				
Transpor	ider:	Mod	e: Undt		,	Active	code: 1200 Stand-by code: Undt				e: Undt	
	_				Electric	al Sv	vitch Pos	sitions		-		
Master ba	attery: (On		1	Master alter	nator:	Undetern	nined	Avi	onics 1: Undeter	rmined	
				-	Lightin	ıg Sw	itch Pos	itions				
Navigatio	n: Off			Rota	ating Beaco	n: Off	F		Lai	nding: Off		
Taxi: Not applicable Strobe: Not applic					plicabl	е		Ins	trument: Off			
Ignition Switch Position												
Key: Bot	h											
Pomorko:												

Remarks:

The Narco 890 DME was set to 110.80.

The Narco 841 ADF was ON.

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Powerplant Description

	Engine Instruments											
Hour meter: 0037.1 T			Tach RPM: 0			Tach hours: 2,131.1			Manifold press: ~23"			
Oil press:	0	Oil tem	np: 0		EGT	: ~	1,300F	CH	CHT: N/A			
Fuel press	s: 0	Fuel flo	ow: N/A	١	Amm	eter: 0		Vo	ltmeter:		0	
	•	-	Ē	ngine C	ontro	l Position	ıs	"				
	Cockpit	Е	ngine				Cockpit			Engir	ne	
Throttle:	Full	F	ull		Cowl	flaps:	Not app	licable	9	Not a	pplicable	
Mixture:	Lean	Le	.ean		Carbu	retor heat:	Slightly	ON		Sligh	tly ON	
Propeller:	Low RPM	Lo	ow RPM		Prime	r:	In/Locke	ed				
	Engine Condition											
Engine at	ached to airframe	e: Yes			Pro	peller atta	ched to er	ngine:	Yes			
Engine co	mpression:	See	below		Va	Valve train continuity: See below						
Vacuum p	ump drive shaft:	See	below									
			Eng	ine Fuel	Syst	em Cond	ition					
Fuel pump	drive shaft:	Se	ee below			Carbureto	or inlet scr	een:	See b	elow		
Fuel distri	bution valve scree	en: Se	ee below			Fuel injectors: See			See b	e below		
		-		Magne	eto Co	ondition			-			
Left magn	eto attached:	Ye	es			Right mag	gneto atta	ched:	Yes			
Left magn	eto spark:	Se	ee below			Right mag	gneto spa	rk:	See b	elow		
	Spark Plug Condition (per Champion Check-A-Plug Card)											
1 2 3				3		4						
Тор	See below	See	e below	below See below			below					
Bottom	See below	See	e below	See b	elow	See	below					

Remarks:

A Lycoming 0-360-A1A engine had been installed in accordance with an STC. The engine appeared to have been recently overhauled by Western Skyways. Visual examination did not reveal any pre-impact abnormalities. The engine had not been examined at the time this report was written.

Propeller

The propeller remained attached to the engine. One propeller blade was twisted and bent forward. It exhibited chordwise scratches, leading edge gouges, and a small span-wise section of the tip was separated. The other propeller blade was curled aft near the tip with chordwise scratches and leading edge gouges. Several pine tree limbs that appeared to be cut by the propeller were observed near the initial impact area.

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Research & Testing

A Garmin GPSmap496 was found in the cabin. It was retained by the NTSB-IIC for analysis. Data had not been provided at the time this report was written.



On-site, ASI-21-CW-038

