# NATIONAL TRANSPORTATION SAFETY BOARD NTSB Form 6120.1 PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

Email the pilot/operator aircraft accident/incident report to the investigator-in-charge of your accident/incident. If email is not available, mail the report per the instructions below.

If your accident/incident occurred in Maine, Vermont, New Hampshire, Massachusetts, Connecticut, Rhode Island, New York, New Jersey, Pennsylvania, Maryland, Delaware, Virginia, West Virginia, Kentucky, Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia, Florida, the District of Columbia, Puerto Rico, or the US Virgin Islands, send the form to: NTSB, ERA, 45065 Riverside Parkway, Ashburn, VA 20147.

If your accident/incident occurred in Ohio, Michigan, Indiana, Wisconsin, Illinois, Minnesota, Iowa, Missouri, Arkansas, Louisiana, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Texas, Colorado, or New Mexico, send the form to: NTSB, CEN, 4760 Oakland Street, Suite 500, Denver, CO 80239.

If your accident/incident occurred in Montana, Wyoming, Idaho, Utah, Arizona, Nevada, Washington, Oregon, California, Hawaii, or the territories of Guam or American Samoa, send the form to: NTSB, WPR, 505 South 336th Street, Suite 540, Federal Way, WA 98003.

If your accident/incident occurred in Alaska, send the form to: NTSB, ANC, 222 West 7th Avenue, Room 216, Box 11, Anchorage, AK 99513.

Rules pertaining to notification of aircraft accidents and incidents, as well as overdue aircraft are found in 49 Code of Federal Regulations (CFR) Part 830 http://www.ecfr.gov/cgi-bin/text-idx?c=ecfr&tpl=/ecfrbrowse/Title49/49cfr830\_main\_02.tpl. These rules state the authority of the NTSB, define accidents, incidents, injuries, and other terms, and provide procedures for initial and immediate notification of accidents and incidents by aircraft pilots/operators.

#### A. APPLICABILITY

The pilot/operator of an aircraft shall send a report to the office listed above, based on accident/incident location; immediate notification is required by 49 CFR 830.5(a). The report shall be filed within 10 days after an accident for which notification is required by Section 830.5, or after 7 days if an overdue aircraft is still missing.

An aircraft accident, as defined in 49 CFR 830.2, is determined as an occurrence that involves a fatality or serious injury, or substantial damage to the aircraft. For occurrences that do not involve a fatality, the determination that the occurrence is an accident can be appealed by writing to the Director, Office of Aviation Safety, NTSB, 490 L'Enfant Plaza, S.W., Washington, D.C. 20594.

The NTSB uses this form for aircraft accident prevention activities and for statistical purposes. NTSB regulations (49 CFR Part 830) require that ALL questions be answered completely and accurately. Completion of this form will take approximately 60 minutes. The NTSB does not guarantee the privacy of any information provided in this form. You need not complete this form unless it displays a valid OMB control number, in accordance with 5 C.F.R. § 1320.5(b), which applies to this collection of information.

#### **B. DEFINITIONS**

- 1. "Aircraft Accident" means an occurrence associated with the operation of an aircraft that takes place between the time any person boards the aircraft with the intention of flight and all such persons have disembarked, and in which any person suffers death, or serious injury, or in which the aircraft receives substantial damage. For purposes of this form, the definition of "aircraft accident" includes "unmanned aircraft accident," as defined at 49 CFR 830.2.
- 2. "Substantial Damage" means damage or failure that adversely affects the structural strength, performance or flight characteristics of the aircraft, and that would normally require major repair or replacement of the affected component. NOTE: Engine failure or damage limited to an engine if only one engine fails or is damaged, bent fairing or cowling, dented skin, small puncture holes in the skin or fabric, ground damage to rotor or propeller blades, and damage to landing gear, wheels, tires, flaps, engine accessories, brakes, or wing tips are not considered "substantial damage" for purposes of this report.
- 3. "Operator" means any person who causes or authorizes the operation of an aircraft, such as the owner, lessee, or bailee of an aircraft.
- 4. "Fatal Injury" means any injury that results in death within thirty (30) days of the accident.
- 5. "Serious Injury" means any injury that (1) requires hospitalization for more than 48 hours, commencing within 7 days from the date the injury was received; (2) results in a fracture of any bone (except simple fracture of fingers, toes, or nose); (3) causes severe hemorrhages, nerve, muscle, or tendon damage; (4) involves injury to any internal organ; or (5) involves second- or third-degree burns, or any burns affecting more than 5 percent of the body surface.

#### INSTRUCTIONS TO PILOTS/OPERATORS FOR COMPLETING THIS FORM

It is necessary that ALL questions on this report be answered completely and accurately.

If more space is needed, continue on a blank sheet of paper.

Nearest City/Place: Use the name of the nearest community in the state where the accident/incident occurred.

Date/Time: Indicate the date and local time of the event. Be sure to indicate the time zone.

Phase of Operation: Indicate the phase of operation during which the accident/incident occurred.

Aircraft Information: Enter aircraft make and model information as indicated on the aircraft registration certificate, including series. If the involved aircraft is certified as "amateur-built," include the name of the producer of the kit or plans, unless an NTSB employee instructs otherwise

Maximum Gross Weight: Enter the certificated maximum gross weight for the aircraft involved in the occurrence. This should be the same as the maximum gross weight indicated on the aircraft weight and balance documents.

Engine: Enter engine make and model information as indicated on the engine data plate.

Type of Fire Extinguishing System: If a fire extinguishing system was used to fight an aircraft fire, specify the type(s) of extinguishing system(s) used. Examples include handheld extinguisher, engine fire bottle, cargo/baggage compartment fire suppression system, or airport emergency ground equipment.

Owner/Operator Information: Enter the owner information as shown on the registration certificate. Commercial operators, enter the operator information, including "doing business as" when applicable, as shown on the operator certificate.

Revenue Sightseeing Flight: Indicate whether the accident aircraft was conducting revenue sightseeing operations under 14 CFR Part 91 at the time of the accident.

Air Medical Flight: Indicate whether the accident flight was being conducted for the purpose of carrying medical personnel, patient(s), or organs.

Public Aircraft: Federal, state or local government flight operations such as official travel, law-enforcement, low-level observation, aerial application, firefighting, search and rescue, biological or geological resource management, or aeronautical research. Indicate whether the flight was conducted by the armed forces, federal, state, or local government.

Purpose of Flight: 14 CFR Parts 91, 103, 133, 136, and 137: Indicate the type of operation that was being conducted at the time of the occurrence using the following definitions:

AERIAL APPLICATION--Operations using an aircraft to perform aerial application or dispersion of any substance. Examples include agricultural, health, forestry, cloud seeding, firefighting, insect control, etc.

AERIAL OBSERVATION--These flights include aerial mapping/photography, patrol, search and rescue, hunting, highway traffic advisory, ranching, surveillance, oil and mineral exploration, criminal pursuit, fish spotting, etc.

AIR DROP--Aerial operations, other than aerial application, that are intended to release items in flight.

AIR RACE/SHOW--Includes any flight operations conducted as part of an organized air race or public demonstration.

BUSINESS--includes all personal flying without a paid professional crew for reasons associated with furthering a business, including transportation to and from business meetings or work. This does not include corporate/executive operations, air taxi, or commuter operations.

EXECUTIVE/CORPORATE--Company flying with a paid professional crew.

FERRY--Non-revenue flight under a special flight or "ferry" permit. Refer to 14 CFR 21.197 for details of special flight permit issuance.

FLIGHT TEST.-Flight for the purpose of investigating the flight characteristics of an aircraft/aircraft component or evaluating an applicant for a pilot certificate or rating.

INSTRUCTIONAL.--Flying while under the supervision of a flight instructor or receiving air carrier training. Personal proficiency flight operations and personal flight reviews, as required by federal air regulations, are excluded.

OTHER WORK USE--Miscellaneous flight operations conducted for compensation or hire such as construction work (not 14 CFR Part 135 operation), parachuting, aerial advertising, towing gliders, etc.

PERSONAL.--Flying for personal reasons (excludes business transportation) including pleasure or personal transportation. This also includes practice or proficiency flights performed under flight instructor supervision and not part of an approved flight training program.

POSITIONING--Non-revenue flight conducted for the primary purpose of relocating the aircraft. Examples include moving the aircraft to a maintenance facility or to load passengers or cargo etc.

UNKNOWN--Use only if the primary purpose of flight is not known.

Other Aircraft--Collision: For all accidents involving a collision with another aircraft, including parked aircraft, check "Collision with other aircraft" under Basic Information and complete this section indicating details about the OTHER aircraft involved in the collision.

Airport Information: Complete this section if the accident/incident occurred on approach, landing, takeoff, departure, or within 3 statute miles of an airport. Please refer to the FAA Airport/Facility Directory or other official source for airport information.

Airport Identifier: Provide the official 3 or 4 character airport identifier number.

Runway. Indicate the number of the runway used, including L, R, or C if applicable.

Runway/Landing Surface: Indicate the type of intended runway/landing surface (do not indicate surface conditions). If the surface type was mixed, check all that apply.

Condition of Runway/Landing Surface: Indicate the condition of the intended runway/landing surface. If multiple conditions existed at the time of the accident, check all that apply.

Weather Information at the Accident/Incident Site: Indicate the weather conditions reported at the accident/Incident site at the time of occurrence. If no weather reporting was available for the accident/Incident site, indicate the reported conditions at the nearest reporting site. Specify the weather reporting site identifier, the observation time, and distance from the accident/incident.

Sky/Lowest Cloud Condition: Indicate the height above ground level of the lowest cloud condition present at the time of the accident/incident and whether coverage was reported as few, scattered, broken or overcast. Also indicate the height above ground level and coverage of the lowest cloud ceiling present at the time of the accident/incident (reported as broken or overcast).

NOTAMS (D and FDC), AIRMETS, SIGMETS, PIREPS: Describe all NOTAMS (distant (D) or Flight Data Center (FDC), if known), AIRMETS, SIGMETS, and PIREPS in effect near the accident/incident.

Flight Crewmember Information: Indicate the category that best describes the capacity served by this flight crewmember at the time of the accident. The designators "Flight Crewmember 1" and "Flight Crewmember 2" do not refer to a specific pilot position or responsibility. If more than one pilot is aboard, they may be entered in any order and their capacity entered as appropriate.

Degree of Injury: See Definitions on the top half of Page 1 of the instructions. Minor injury is not defined. If an injury does not meet the criteria for another injury category, select Minor.

Date of Last Flight Review or Equivalent: Enter the date of the most recent flight review, or equivalent, completed by this pilot. Refer to 14 CFR 61.56 for accepted equivalents.

Type Ratings: List all type ratings on the pilot certificate. If the pilot holds no type ratings indicate "none." If the pilot holds a pilot certificate other than student and was flying an aircraft requiring an endorsement, enter the type and date of any logbook endorsement(s) for that aircraft. See 14 CFR 61 for examples of required endorsements.

Student Endorsements: If the pilot holds a student pilot certificate, enter all solo endorsements and dates on the student pilot certificate.

Flight Time: Complete the flight time matrix. Solo flight time should be included as "Pilot-in-Command (PIC)" and all dual flight instruction given should be included as "Time as Instructor."

Additional Flight Crewmembers: Complete this section if there were more than two required flight crewmembers on the aircraft. This also includes a check airman performing official duties but does not include cabin crew. State the capacity served by each included crewmember at the time of the accident.

Passenger(s)/Other Personnel: Enter identification and injury severity information for all passengers, cabin crew, and other personnel involved in the accident. See Page 1 of the instructions for the official definition of injury levels.

Several questions throughout the form allow for multiple responses; when appropriate, choose all responses that apply.

These instructions only pertain to major issue areas covered by NTSB Form 6120.1 *Pilot/Operator Aircraft Accident/Incident Report*. For additional definitions of questions and responses, please refer to www.ntsb.gov.

## NATIONAL TRANSPORTATION SAFETY BOARD PILOT/OPERATOR AIRCRAFT ACCIDENT/INCIDENT REPORT

This form to be used for reporting civil and public aircraft accidents and incidents

BASI	INFORMA	TION											
	t/Incident Loca						Accident/Incident Date/Time						
Nearest C	City/Place: BAT	TLE CREEK	<		_State: N	/II	Dat	te: 09/	16/2021	Loc	cal Time: _	1556	
ZIP: <u>49</u>	<b>015</b>	ountry: USA	4					mm/d	d/yyyy	T:	7 [	Contorn	
Latitude: 42:31N Longitude: 85:25N										111	ne Zone: _	zastem	
	(Enter in decima	l degrees or d	egrees:minutes:sec	onds)			Co	llision with	Other Air	eraft: C	) Midair	OOn-ground	d <b>O</b> None
AIRCE	RAFT INFO	RMATIO	V										
Registra	ation Number:	N53GL						□ IFR-Equi					
Manufa	cturer: WACC	CLASSIC	AIRCRAFT CO	DRP				□ Commerc □ Unmanne		ight			
Model:	2T-1A-2						M	aximum G	ross Weigh	t: <u>1800</u>		lbs	
Serial N	lumber: <u>1206</u>						w	eight at Ti	ne of Acci	dent/Incid	dent: <u>177</u>	71	_ lbs
Year of	Manufacture:	2015					Νι	umber of S	eats: 2		Flight Cre	w Seats: 1	
Amateu	r-Built: OYes	If Yes: (	Kit/Plans Mak	:e:								Seats: 1	
	⊙No		Original Design				Nι	umber of E	ngines: 1				
Catego	ry of Aircraft	Type of A	irworthiness Ce	rtificate		Landing Ge	ear			Engine	Type (Se	lect one)	
<ul><li>Airpla</li></ul>		(Check all to				(Check all the	-			• Reci	procating	O Liqui	d Rocket
O Ballo	on Dirigible	Standar Norma		ted			Retr	ractable		O Turb	o Shaft	OSolid OHvbri	d Rocket
O Glide		✓ Aeroba	atic  Limited	l		Tricycle		<b>✓</b>	Cailwheel	O Turb		ONone	
O Gyrop		Balloo				Amphibia			High Skid	O Turb		<b>O</b> Unkn	own
O Helico O Powe	1	☐ Comm ☐ Transp				☐Emergend	cy FI	loat 🔲 S		O Elect	tric		
ORocke		Utility	☐ Special	Light-Spo		Hull			ski/Wheel	Fuel Sv	stem Type	(Reciprocativ	ng)
O Ultral O Unkn			☐ Experir	nental Ligh	nt-Sport	□ Other La	unch	/Recovery Sy	rstem	OCarb		● Fuel-	
OUNKN	own	☐Certificate	of Authorization	or Waiver Jnknown	(COA)	☐ None	arrorr		Jnknown				,
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			Engine			acturer's		of Mfg.	<ul><li>Horse</li></ul>	power or	Time	Inspection	Overhaul
Engine Eng. 1	Engine Manufa  LYCOMING	cturer	Model/Series AEIO-360-B1G6		L-3650	Number 7.51E	$\dashv$	mm/dd/yyyy	O lbs of 180	Thrust	(hours) 161.2	(hours) 10.5	(hours) N/A
Eng. 2	LICOMING		ALIO-300-B1G0		L-3030	7-51L	$\dashv$		100		101.2	10.0	14// (
Eng. 3							$\neg$						
Eng. 4		y.	, ,			9							
Last Ir	spection Type			Propell	er 1	OFixed I			Prop	eller 2		Fixed Pitch Controllable I	Pitch
О100-Н		inuous Airwo	orthiness						Ground Adjus				
OAAIP	_	ditional Inspec	ction	Manufacturer: MT-PROPE			LEF	R	Man	ufacturer:			
<b>⊙</b> Annu			.004	Model: _	MTV-1	5-B-C/C188-	34		Mod	el:			
Date L	ast Inspection:	07/14/2 mm/dd/yy		ELT In	stalled:	⊙Yes C	) No			-	ipment (	Check all that	apply)
Airfran	ne Total Time:		hrs	If Yes:					□ AI	OS-B rframe Para	chute		
	rs measured at (S					er: <u>ACK E-0</u>			- □An	gle of Atta	ck Indicato	r	
O Last Inspection Time of Accident/Incident  Model or Part No.: S/N TSO No.: OC91 (121.5 N					)1a (121.5 MI		topilot						
Type of Maintenance Program (Select one)				'		(		ta Recorde ectronic Fli		Handheld De	vice		
⊙ Annual  Was ELT still mounted in a				ounted in aircr	aft?	⊙Yes ON	o DEle	ectronic Mu	ultifunction	Display			
O Conditional (Amateur-built only)  Was ELT still connection Program						? •Yes ON		ectronic Pri ndheld GP	mary Fligh	t Display			
O Other Approved Inspection Program (AAIP)				e? OYes O	No			ads Up Dis					
O Continuous Airworthiness If activated:					Locating Aircra	oft.	OVec ON	□On	board Wea	ither			
	, , ,	41	Cristians	ł	ctivated:	Joeanng Ameri		J163 61V	□ □ Sa	tellite Traci Ill Warning	king Devic System	e	
O Non	otion of Fire Ex	unguishing	system	Indicate		☐ Impact Da	เพลด	<u>ie</u>			ling Device		
O Spec						☐ Fire Dama	age		□Ot	her, Specif	y:		
						☐ Battery Ex ☐ Unknown		ed/Damaged					
						- CHKHOWII							

OWNER/OPERATOR INFORMA	TION					
Registered Aircraft Owner		City:				
Name:		State:				
Fractional Ownership Aircraft: O Yes O		Country:				
Operator of Aircraft	gistered Owner	☐ Same Address as Registered Owner				
Name:		City:				
Doing Business As:		State:	ZIP:			
Air Carrier/Operator Designator (4 Characte	er Code):	Country:				
Operating Certificates Held (Check all that apply)	Regulation Flight Conducted Un-	er Revenue Operation for FAR 121, 125, 129, 135 (Select one for each group)				
□None □Flag Carrier Operating Certificate (FAR 121) □Supplemental □Air Cargo	OFAR 91 OFAR 129 OFAR 4 OFAR 103 OFAR 133 OFAR 4 OFAR 121 OFAR 135 OFAR 4 OFAR 125 OFAR 137 OFAR 4	Non-Schedule Non-Schedule	O Scheduled or Commuter O Non-Scheduled or Air Taxi O International			
☐ Foreign Air Carriers (FAR 129) ☐ Rotorcraft External Load (FAR 133) ☐ Commuter Air Carrier (FAR 135)	O FAR 91 Special Flight O Non-US, Commercial O Non-US, Non-commercial	O Passenger O Cargo O Mail Contract	_			
□On-Demand Air Taxi (FAR 135) □Commercial Air Tour (FAR 136) □Agricultural Aircraft (FAR 137)	OPublic Aircraft (Select one)	Purpose of Flig (Select one)	ht for FAR 91, 103, 133	3, 137		
□ Pilot School (FAR 141) □ Certificate of Authorization or Waiver (COA) □ Commercial Space Transportation Experimental Permit □ Commercial Space Transportation License □ Other Operator of Large Aircraft	O Armed Forces O Federal O State O Local O Unknown	O Aerial Applica O Aerial Observ O Air Drop O Air Race/Shov O Banner Tow O Business O Executive/Con	ation OFlight Test OGlider Tow WOInstructional OOther Work U OPersonal OPositioning	Test r Tow octional r Work Use nal		
Revenue Sightseeing Flight	Air Medical Flight	O External Load	OSkydiving			
O Yes O No	O Yes O No					
AIRPORT INFORMATION (Fill in	if accident/incident occurred on app	roach, landing, takeof	ff, departure, or within :	B miles of an airport)		
Airport Name:		Distance From Airp	oort Center:	sm		
Airport Identifier:		Direction From Airport:		degrees true		
Proximity to Airport: O Off Airport/Airstri	p OOn Airport/Airstrip ON/A	Airport Elevation: ft. msl				
Runway Information  Runway ID:(L/R/C) Length:  Runway/Landing Surface (Check all that a		· ·	• .	☐ Water-Glassy ☐ Wet		
☐ Asphalt ☐ Grass/Turf ☐ Mace ☐ Concrete ☐ Gravel ☐ Meta ☐ Dirt ☐ Ice ☐ Snow	idam	Rough	☐ Snow-Wet ☐ Soft ☐ Vegetation			
Approach/Departure Segment (Select one	)					
OTaxi OVFR Departure OTakeoff OIFR Departure Proc OInitial Climb	OOn Instrument Appelore/Clearance OLanding	roach O Downwind O Base O Final O Crosswind	OLow Approacl OGo Around OAborted Landi OUnknown	n ng (after touchdown)		
IFR Approach (Check all that apply)  □ None		VFR Approach (Ch □None	eck all that apply)			
□ADF/NDB □PAR □SDF □Sidestep □VOR/TVOR □ILS □VOR/DME □Localizer Only □TACAN □LOC-back course □RNAV	□MLS □Practice □LDA □GPS □ASR □Visual □Contact □Circling □Unknown	☐ Traffic Pattern ☐ Straight-In ☐ Valley/Ferrain Follow ☐ Go Around ☐ Full Stop	wing Sime	th and Go Ilated Forced Landing ed Landing autionary Landing		
	Book Scattle 7111					

"FLIGHT CREWME	MBER 1" INFOR	MATION							
"Flight Crewmember 1" F				nu	L.D.	001 -	E-la C		
O Pilot O Co-Pilot		Flight Instr	uctor O Check	Pilot Oflig	ght Engineer	O Other F	light Crew		
"Flight Crewmember 1" v		» Ц NO							
"Flight Crewmember 1" I				O!= CD	laaidan ·				
First Name:					tesidence:				
Middle Initial:							IP:		
Last Name:									
Age at time	of Accident/Incident: _								
Degree	0,.40	Certi	ficate Number: _	Restraint 7				mfla4-11 F	naturi i
Degree of Injury  O None O Fatal	Seat Occupied O Left	) Front	O Unknown		· ·	Tio. I	1	nflatable R	estraints
O Minor O Unknown	O Right C	) Rear	J J.m.iowii	Availab O Non		Used O None		☐ Not Insta	alled
O Serious		Single		O Lap	only	O Lap only	,	Installed	
Pilot Certificate(s) (Check		· •		O 3-pc		O 3-point O 4-point		☐ Not Dep ☐ Deploye	
☐ None ☐ Fligh ☐ Private ☐ Recr	nt Instructor	nercial le Transport	☐ US Military ☐ Foreign	O 5-pc	oint	O 5-point		Unknow	
☐ Student ☐ Spor		t Engineer		O Unk	nown	O Unknow	711		
Principal Occupation	Medical Certificate			Medical C	ertificate Va	lidity	1	Date of Las	t Medical
O Pilot	O None O Clas	ss 3		O Without I	imitations/waiv	vers O Ui	nknown		
O Other	O Class 1 O Driv	er's License	(Sport Pilot only)	O With limi	tations/waivers			mm/dd/yy	
O Unknown	O Class 2 O Unk	inown		O Special Is	ssuance			mm/aa/yy	) Y
Medical Certificate Limit	acions								
Medical Certificate Speci	al Issuance								
			<u> </u>						
Date of Last Flight Review	w	Flight R	eview Aircraft						
or Equivalent, Including FAR 121/135 Checks:		Make: _							<u></u>
TITE IMI/100 CHECKS:	mm/dd/yyyy								
Airplane Rating(s)	Other Aircraft Ra		Instrument R		1	r Rating(s)			
(Check all that apply)	(Check all that apply,	)	(Check all that a	apply)	(Check all	that apply)	-	1 Inotes	A irolana
☐ None ☐ Single-Engine Land	☐ None ☐ Airship		☐ None ☐ Airplane		☐ None ☐ Airplan	e Single-Engi		Instrument A Instrument I	•
☐ Single-Engine Sea	☐ Balloon		☐ Helicopter	<u>,</u>	☐ Airplan	e Multi-Engir	ne 🗀	Helicopter	•
☐ Multiengine Land ☐ Multiengine Sea	☐ Glider ☐ Gyroplane		☐ Powered Lif	l	☐ Gyropla			l Glider l Sport	
J	☐ Helicopter						<u> </u>		
Type Ratings	☐ Powered Lift				Student F	Endorsemen	its (Include	dates)	
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Flight Time (Enter appropr	1 1	is Make	Single Ai	rplane		rument	D-4:	CEL	Lighter Then Air
number of hours in each box)	Aircraft &	Model	Engine Mul	tiengine Nigh	nt Actual	Simulated	Rotorcraft	Glider	Than Air
Total Time Pilot in Command (PIC)						-			
and the second s		I	1			i	l .	1	
Time as Instructor									
Time as Instructor This Make/Model									

"FLIGHT CREWMEM	BER 2" INF	ORMATIC	ON								
"Flight Crewmember 2" Responsibilities at the Time of Accident/Incident OPilot OCo-Pilot OStudent Pilot ⊙Flight Instructor OCheck Pilot OFlight Engineer OOther Flight Crew											
"Flight Crewmember 2" was	pilot flying	☐ Yes 🔽	]No								
"Flight Crewmember 2" Ide	ntification										
First Name: RICHARD					City	y of Resi	dence: BA	TTLE CRE	EK		
Middle Initial: <u>E</u>					Stat	te: MI		Z	IP: <u>49015</u>		
Last Name: COMPTON JR	R					intry: _L	JSA				
Age at time of A	Accident/Inciden	nt: _44	Date of Bi	rth:			Y	ı/dd/yyyy			
		Ce	rtificate Numb	oer:							
Degree of Injury	Seat Occup		9		Restr	aint Typ	pe		]	Inflatable R	estraints
None O Fatal     Minor O Unknown     Serious	O Left O Right O Center	<ul><li>Front</li><li>ORear</li><li>OSingle</li></ul>	OUnknov	vn	Available Used  O None O None ☑ Not Installed						
Pilot Certificate(s) (Check all						O Lap on O 3-point	-	O Lap only O 3-point	′	☐ Installed ☐ Not Dep	
☐ None ☐ Flight Ir		Commercial	☐ US Mi	ilitary	(	• 4-point	Ė	4-point		☐ Deploye	ed
☐ Private ☐ Recreati	ional 🗆 1	Airline Transp	ort 🔲 Foreign	-		O 5-point O Unkno		O 5-point O Unknow	<i>i</i> n	Unknow	/n
☐ Student ☐ Sport	П	Flight Enginee	r			J 0	****	0 0	···		
Principal Occupation N	Iedical Certific	ate		N	Medi	cal Cert	ificate Val	lidity		Date of Las	t Medical
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0		) Driver's Lice ) Unknown	ense (Sport Pilot			ith limitati ecial Issua	ions/waivers ance	s O N	/A	mm/dd/yy	
Medical Certificate Limitati											
NONE											
Madical Cartificate Special I											
Medical Certificate Special I	ssuance										
N/A											
Date of Last Flight Review		Fligh	t Review Airc	raft							
or Equivalent, Including			: AVIAT INC	Ган							
FAR 121/135 Checks:	08/07/2020 mm/dd/yyyy		i: HUSKY A1								
Airplane Rating(s)	Other Aircraf			ent Rating	a(e)		nstructor	Dating(s)			
(Check all that apply)	(Check all that a	0,,	I	l that apply)	0,		Check all th	0,,			
☐ None	None		None	** **	•		☐ None			Instrument A	
<ul><li>✓ Single-Engine Land</li><li>✓ Single-Engine Sea</li></ul>	<ul><li>☐ Airship</li><li>☐ Balloon</li></ul>		☑ Airpla: ☐ Helico					Single-Engin Multi-Engine		Instrument H Helicopter	elicopter
Multiengine Land	☐ Glider		Power				☐ Gyroplan	ne		Glider	
☐ Multiengine Sea	☐ Gyroplane ☐ Helicopter					[	☐ Powered	Lift		Sport	
	Powered Lift	ji S									
Type Ratings						S	Student En	ndorsement	s (Include de	ates)	
NONE											
Flight Time (Enter appropriate number of hours in each box)	All Aircraft	This Make & Model	Airplane Single Engine	Airplan Multiengi		Night	Inst: Actual	rument Simulated	Rotorcraft	Glider	Lighter Than Air
Total Time	1,952	181	1,550	3	384	122	33	61	17	1	0
Pilot in Command (PIC)	1,866	181	1,493	3	373	84	33	51	0	0	0
Time as Instructor	956	12	625	3	331	60	19	134	0	0	0
This Make/Model						1	0	0			
Last 90 Days	114	9			0	1	1	3	0	0	0
Last 30 Days Last 24 Hours	57	7	57		0	0		2	0	0	0
Last 24 Hours	0 1			1	11	0	1 0	1 11 1	1 ()	()	()

ADDITIONAL FLIG	HT CREWMEM	BERS (	Exclusive	of cabin cre	w, complete	the followin	g information)		
Crew Name and Addr	ess						Seat Occupied	1	Injury
First Name:         City of Residence:           Middle Initial:         State:         ZIP:           Last Name:         Country:							O Left O Center O Right	O Front O Rear O Single O Unknown	O None O Minor O Serious O Fatal O Unknown
Pilot Certificate(s) (Co	nmercial line Transpo ght Engineer Total Fli	sport			Restraint Typ Available O None O Lap Only O 3-point O 4-point O 5-point	Used O None O Lap Only O 3-point O 4-point O 5-point	Inflatable Restraints  Not Installed Installed Not Deployed Deployed Unknown		
Accident/Incident Air		☐ Yes ☐ No of this Accident/Incident:hrs					O Unknown	O Unknown	
Crew Name and Adda  First Name:  Middle Initial:  Last Name:		State	e:	Z	IIP:		Seat Occupied OLeft OCenter ORight	O Front O Rear O Single O Unknown	Injury O None O Minor O Serious O Fatal O Unknown
Pilot Certificate(s) (C  None Private Student  Type Rating/Endorse	☐ Flight Instructor ☐ Recreational ☐ Sport	□ Air □ Flig	1	ort	the Time	hua	Restraint Typ Available O None O Lap Only O 3-point O 4-point O 5-point O Unknown	Used O None D Lap Only O 3-point O 4-point O 5-point O Unknown	Inflatable Restraints  Not Installed Installed Not Deployed Deployed Unknown
Accident/Incident Air					dent:		COLOR OF COLOR OF COLOR OF COLOR OF COLOR	Onknown	
PASSENGER(S) / Name and Address	OHFIER PERSO	ANNEL®(	meiuae C	Seat	Injury	Restraint T		Inflatable Restraints	Age
First Name: Middle Initial: Last Name:	State:	ZIP:		OLeft OCenter ORight OUnknown Row:	O None O Minor O Serious O Fatal O Unknown	Available ONone OLap Only O3-point O4-point O5-point OUnknown	Used O None Lap Only O 3-point O 4-point O 5-point	☐ Not Installed ☐ Installed ☐ Not Deployed ☐ Deployed ☐ Unknown	Under 5 years
First Name: Middle Initial: Last Name:	State:	ZIP:		OLeft OCenter ORight OUnknown Row:	O None O Minor O Serious O Fatal O Unknown	Available ONone OLap Only O3-point O4-point O5-point OUnknown	O None C Lap Only O 3-point O 4-point O 5-point	□ Not Installed □ Installed □ Not Deployed □ Deployed □ Unknown	☐ Under 5 years
First Name:Middle Initial: Last Name:	State:	ZIP:		OLeft OCenter ORight OUnknown Row:	O None O Minor O Serious O Fatal O Unknown	Available ONone OLap Only O3-point O4-point O5-point OUnknown	Used O None Lap Only O 3-point O 4-point O 5-point		□Under 5 years
First Name: Middle Initial: Last Name:	State:	ZIP:		OLeft OCenter ORight OUnknown Row:	ONone OMinor OSerious OFatal OUnknown	Available ONone OLap Only O3-point O4-point O5-point OUnknown	Used O None Lap Only 3-point 4-point 5-point	☐ Not Installed ☐ Installed ☐ Not Deploye ☐ Deployed ☐ Unknown	☐ Under 5 years

FLIGHT ITINERARY	INFORMATIO	N			1000		
Last Departure Point		ne of Departure	Destination	on		Type Fligh	ht Plan Filed
Airport ID:		-	Airport ID:			O None	O VFR/IFR
City:	1 im	ne:				O Company	
State:		e Zone:				O Military O VFR	VFR O Unknown
Country:	-					1 -	OYes ONo OUnknown
Type of ATC Clearance/S	ervice (Check all tha	t apply)				<u> </u>	
□ None	☐ Special VFR ☐ IFR	□ Spe	ecial IFR R On Top		☐ VFR Flight Follo☐ Traffic Advisory		☐ Cruise ☐ Unknown / NA
☐ Class B☐ Class C☐ Class D☐ Class E	☐ Class G ☐ Demo Area ☐ Warning Area ☐ Prohibited Area ☐ Restricted Area	☐ Mil ☐ Air ☐ Jet ☐ TR: ☐ FA	litary Operations port Advisory Ar Training Area SA R 93	rea	□Special □Air Traffic Contr □Unknown	rol Area	Altitude of In-Flight Occurrence: ft msl
WEATHER INFORM	NATION AT TH	E ACCIDEN	T/INCIDEN	IT SITE	1.40	The services	A Los Professioners and Second Second
Source of Pilot Weather I. (Check all that apply)  National Weather Service Flight Service Station TV/Radio Automated Report Commercial Weather Service	□ Con □ Mil □ Inte □ Nor	itary ernet ne		Facility ID: Observation Ti Time Zone: Distance from	ime:Accident Site:		nm
Basic Conditions		Light Conditi	ion		***************************************		
O VMC O IMC O Unknown		ODawn ODay	ODusk ONight	ODark OBrig	k Night OUn ht Night	nknown	
Sky/Lowest Cloud Condit O Clear O Few O Partial Obscuration O Scattered Lowest Cloud Condition	O Thin Broken O Thin Overcast O Unknown	Ceiling O None (Clear) O Broken O Overcast Ceiling Heigh	0	Obscured Indefinite Unknown		(C	
Wind Direction	Wind Speed	1	Wind Gusts		Visibility		
☐ Variable	☐ Calm ☐ Light and Vari	able	☐ Not Gustin		RVR:	:	feet
-or- Direction:degrees tru	e Speed:	kts	Speed:	kts	Density Altitud		mines
Intensity of Precipitation	Type of Precipit			Ato			Check all that apply)
O Light O Moderate O Heavy O N/A O Unknown	None Rain Snow Hail Rain Showers	Drizzle     Ice Pellets     Snow Pellet     Snow Grain     Ice Crystals	Freezing Snow S ts	hower ets Shower	☐ None ☐ Blowing Du ☐ Blowing San ☐ Blowing Sno ☐ Blowing Spo	ust Gray  nd Gray  ray  Gray  Gray	=
Icing Forecast  Amount  O None  O N/A  O Trace  O Light  O Moderate  O Severe  O Unknown	d own	Icing Actual Amount O None O Trace O Light O Moderate O Severe O Unknown	Type O N/A O Rime O Clear O Mixer O Unkn	d down	Turbulence Type (Check al None Clear Air Terrain-Indu	iced Turbulence	Severity Light Moderate Severe Extreme
NOTAMs (D and FDC),	, airmets, SIGN	viets, pireps	s m effect at	the time of th	1e accident/incid	lent:	

DAMAGE TO AIRCRAFT AND OTHER PROPERTY									
Aircraft Dama	age	Aircraft Fire		Aircraft Explosion					
O None O Minor	<ul><li>Substantial</li><li>Destroyed</li><li>Unknown</li></ul>	<ul><li>None</li><li>In-Flight</li><li>On-Ground</li></ul>	O Both Ground and In-Flight O Fire at Unknown Time O Unknown	<ul><li>None</li><li>In-Flight</li><li>On-Ground</li></ul>	O Both Ground and In-Flight O Explosion at Unknown Time O Unknown				

Description of Damage to Aircraft and Other Property (Use additional sheet if necessary)

RIGHT MAIN LANDING GEAR LEG BENT; RIGHT MAIN WHEEL AND TIRE DAMAGED; LOWER RIGHT WING SPAR CRACKED; RIGHT WING "N" STRUT BENT; LOWER RIGHT AILERON BENT/DAMAGED

### NARRATIVE HISTORY OF FLIGHT (Please type or print in ink)

Describe what occurred in chronological order, including circumstances leading to and nature of accident/incident. Describe terrain and include wreckage distribution sketch if pertinent. Attach extra sheets if needed. State departure time and and location, services obtained, and intended destination. Provide as much detail as possible.

The PIC of the aircraft had recently purchased the airplane through brokerage at Waco Aircraft Corp and was seeking proficiency training. PIC and I began training on September 15 (Day 1). We flew three flights on Day 1 for a total of 3.4 hours, with ample breaks between each flight. Throughout the day, I noticed that the PIC was struggling to keep the longitudinal axis of the aircraft aligned with the runway, and I was frequently adding corrections and occasionally take the controls to assist the PIC in keeping the aircraft from losing directional control. The PIC mentioned that he was having difficulty steering the airplane at low speeds, so on the last flight of the day I demonstrated a successful taxi, takeoff, flight and landing (three-point). The demonstration took place at KRMY, and PIC shadowed the controls during the demo. The goal of the demo was to show him that the aircraft was in fact quite controllable so long as quick corrections were made to react to any adverse yaw. The demo at KRMY was the first time I manipulated the controls fully that day. Following the demonstration we agreed that the tailwheel steering could use adjustment to make the steering more responsive during taxi operations. After the demonstration the PIC resumed control of the aircraft, flew the airplane back to KBTL, and completed a successful landing. At the end of Day 1 the PIC requested that the tailwheel steering be adjusted by the team at Centennial Aircraft.

The adjustments were made by Centennial Aircraft on the morning of September 16 (Day 2). Following the adjustments, PIC received the aircraft, conducted a thorough preflight, and determined the aircraft airworthy. We conducted three flights Day 2, all at KBTL and all on runway 23R. On our first flight the PIC and I both took turns taxiing the aircraft and were quite satisfied with the tailwheel adjustments. On Flight 1 we remained in the pattern and conducted several low approaches over the runway in an effort to build an understanding of the sight picture required to maintain directional control. The completion of flight 1 consisted of a three-point landing made by the PIC with occasional light inputs from me. Flight 2 consisted of more low approaches, as well as a wheel landing touch-and-go; the final landing was with the PIC shadowing my controls. Both flight 1 and flight 2 were a total of 1.0, with long breaks between.

On flight 3 on Day 2 the PIC and I discussed that he would be the pilot flying, and I reminded PIC that if there was any uncertainty to the landing, that the PIC should initiate a go-around. The winds were crosswind from the left and slightly gusty close to the ground. On final approach I again reminded PIC that if there was any uncertainty, that he should initiate a go-around. PIC landed the aircraft on the mains, but bounced slightly and the aircraft settled into a three-point attitude on the runway. During the roll-out the nose yawed to the right. PIC applied full left rudder, which over-corrected and began an unintended left yaw. During this time I was shadowing the controls and could feel the PIC over-correct and then release left rudder. I allowed PIC to continue to recover the aircraft, thinking that when he released the rudder he would apply right rudder to counter the yaw. This was a mistake; at that moment, PIC had actually released all controls and was no longer attempting any correction. As soon as I realized this, PIC stated over the intercom; "your airplane." By this time a ground loop to the left had fully developed. I attempted to regain control by applying right rudder and right roll, but this only made the right main gear compress further and allowed the right wheel rim to strike the runway. When the wheel impacted the runway it broke apart. Thereafter, the aircraft's right wing struck the runway as the aircraft came to a stop. Due to the fact that I was applying right aileron, the leading edge of the flight control struck and caused it to be damaged.

At the time I recall only one other aircraft in the pattern for 23R. However, during prior flights the pattern had been congested. As such, I was managing radio communications to dissipate workload for PIC. Despite this, I believe that unfamiliarity with the airport, lack of experience with the local winds, and lack of tailwheel proficiency all contributed to the accident. Another possible contributor to the accident was the tailwheel steering adjustment for the flights on Day 2. While tailwheel steering is primarily effective at low speeds, it's possible that the PIC experienced a negative transfer of learning; that is, on Day 1 he had been accustomed to larger rudder inputs on the ground at lower taxi speeds. Perhaps the PIC thought he would need to apply a larger rudder input than was necessary to correct for the adverse yaw that caused the accident. Overall though, I feel the greatest contributing factor to the accident was the PIC's resignation during the landing. When the aircraft lost directional control, the PIC released all controls prior to saying, "your airplane." Given that I was in the front cockpit, I had a delayed reaction in catching the aircraft in a timely manner to potentially save it when he gave up control.

RECOMMENDATION (How	could this	accident/incident ha	ave been pre	vented?)				
Operator/Owner Safety Recommo	endation							
The accident could have been prevented with additional training prior to the PIC attempting to land the aircraft himself. Despite the fact that he was appropriately rated, endorsed, current, and had recent prior experience in the make and model, it was clear that he was uncomfortable with the aircraft and the local conditions. I should have spent more time with him conducting both low and high speed taxi operations so that he could re-familiarize himself with how the aircraft handles.								
Another factor stated by the PIC is related to external pressures. The PIC was concerned with how to get his aircraft back to his home airport in Scottsdale. At the beginning of training the PIC was expecting to fly it home himself after working with me for a couple days. During our flights however, he lost confidence that he would be capable of conducting the mission on his own. In addition, the PIC mentioned that he was in the middle of a business issue at home that was occupying much of his mental energy, and that he was struggling to focus on the training. After the accident, the PIC stated to me that, "he should have waited" to come to KBTL and conduct the training until all of his issues at home had been resolved.								
MECHANICAL MALFUN	ICTION/F	All URF (If mor	ro enaco ie n	andad co	entinue on sena	rato shoot)		
Was there Mechanical Malfunc	tion/Failur	e? ☐ Yes ☑ No			minue on sepa	rate sheet,	Total Time/Cycles	
(If yes, list the name of the part, manu	facturer, pari	no., serial no., and de	scribe the failu	re.)			On Part	
							Hours	
							Cycles	
Time Since Ti								
							Inspected/Overhauled	
							Hours	
FUEL & SERVICES INFO	ORMATI	ON						
Fuel on Board at Last Takeoff		Fuel Type						
(Convert from pounds, as necessary) 18	Gallons	O 80/87 O 100 Low Lead	O 115/145 O Jet A		O Jet B O JP8	O Other, specify		
Other Services, if Any, Prior to		O 100/130	O Jet A-1		O Automotive			
Services, in ring, 1 nor to	Departure							
EVACUATION OF AIRC	RAFT							
Was an emergency evacuation of		oft performed?	☐ Yes	☑ No				
Method of Exit – Describe how t					d each location			
	•							
OTHER AIRCRAFT - CO	DLLISIO	(If air or ground	collision occ	urred, co	mplete this sec	tion for other aircrat	ft)	
Aircraft Registration Number		irer:		·	•	Dan	nage to Other Aircraft	
						🗆 🗆	Destroyed	
Registered Owner of Other Air	craft			Pilot of	Other Aircraft		<del></del>	
Name:				Name: _				
City: ZIP:				City:				
Country:					:	_ZIP:		

ADDITIONAL INFO	ORMATIC	ON (Please type or print in ink)			
Use this space if addit	ional space	is needed for any answers.			
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I HEREBY CERTIFY	/ THAT TH	HE ABOVE INFORMATION IS COMPLE	TE AND ACCUE	PATE TO THE BEST OF	IV KNOW! EDGE
Date of this Report					IT KNOWLEDGE
		Pilot/Operator:			
09/20/2021 mm/dd/yyyy		<b>—</b>			
	or	Check here to electronically sign this d	ocument		
If a Person Other tha	n Pilot/Op	erator is Filing Report			
Name: RICHAR	RD E COM	PTON JR		Title: FLIGHTCREW	MEMBER 2
Signature:					
or C		o electronically sign this document			
			IOE ONLY		
NTSB Accident/Incid	lant No	FOR NTSB U		gatau	Data Day ( D
CEN21LA430	ient Ivo.	Reviewed by NTSB Regional Office CENTRAL	Name of Investig	gator	Date Report Received 9/20/2021