

 National Transportation Safety Board FACTUAL REPORT AVIATION		NTSB ID: DEN00LA013		Aircraft Registration Number: N8707V	
		Occurrence Date: 10/27/1999		Most Critical Injury: None	
		Occurrence Type: Accident		Investigated By: NTSB	
Location/Time					
Nearest City/Place GRAND JUNCTION		State CO	Zip Code 81501	Local Time 1135	Time Zone MDT
Airport Proximity: On Airport		Distance From Landing Facility:		Direction From Airport:	
Aircraft Information Summary					
Aircraft Manufacturer Bellanca		Model/Series 8KCAB		Type of Aircraft Airplane	
Sightseeing Flight: No			Air Medical Transport Flight: No		
Narrative					
Brief narrative statement of facts, conditions and circumstances pertinent to the accident/incident:					
<p>On October 27, 1999, approximately 1135 mountain daylight time, a Bellanca 8KCAB, N8707V, registered to and operated by Kempton Air Service, was substantially damaged when it collided with terrain during landing roll at Walker Field, Grand Junction, Colorado. The commercial certificated flight instructor and one passenger were not injured. Visual meteorological conditions prevailed, and a VFR flight plan had been filed for the personal flight being conducted under Title 14 CFR Part 91. The flight originated at 1100.</p> <p>According to the pilot, after flying for one half of an hour in the local area, he returned to the airport to practice landings. He made a "normal" tailwheel landing on runway 11 and landed 1,000 feet down the runway. He stated that at the time he landed, the wind was light from 110 degrees. During rollout approximately 200 feet down the runway, the left main landing gear collapsed and separated from the aircraft. The airplane ground looped and departed the runway to the left, turning 180 degrees and coming to rest on its left side. The propeller was damaged, and the left wing strut and left rear wing spar were bent.</p> <p>Postaccident examination of the airplane revealed that the left main landing gear u-bolt failed. The u-bolt was sent to the NTSB's Materials Laboratory for examination. According to their report, the bolt fractured through the bend between the horizontal and vertical leg of the bolt. The fractured surface revealed ratchet marks and crack arrest positions typical of fatigue cracking. The fatigue initiated at several origins on the inner radius of the bend and disseminated through approximately 80 percent of the bolt cross section. The fractured features on the remaining fractured surface were typical of an overstress failure.</p> <p>The intact vertical leg was bent outward, creating an approximate 120-degree angle with the horizontal leg. No evidence of cracking was observed on the inner radius surface of the bend between the vertical and horizontal leg. The inner surface of the bolt on each side of the bend between the separated vertical leg and the horizontal leg was rubbed. According to their report, the fractured surface of the bolt at the failure initiation area was damaged following the separation and the reason for the fatigue initiation was unable to be determined.</p>					
FACTUAL REPORT - AVIATION					
Page 1					

 National Transportation Safety Board FACTUAL REPORT AVIATION		NTSB ID: DEN00LA013			
		Occurrence Date: 10/27/1999			
		Occurrence Type: Accident			
Landing Facility/Approach Information					
Airport Name	Airport ID:	Airport Elevation	Runway Used	Runway Length	Runway Width
WALKER FIELD AIRPORT	GJT	4858 Ft. MSL	11	10501	150
Runway Surface Type: Asphalt					
Runway Surface Condition: Dry					
Type Instrument Approach: NONE					
VFR Approach/Landing: Full Stop					
Aircraft Information					
Aircraft Manufacturer		Model/Series		Serial Number	
Bellanca		8KCAB		190-75	
Airworthiness Certificate(s): Normal					
Landing Gear Type: Tailwheel					
Homebuilt Aircraft? No	Number of Seats: 2	Certified Max Gross Wt.	1800 LBS	Number of Engines: 1	
Engine Type:	Engine Manufacturer:	Model/Series:	Rated Power:		
Reciprocating	Lycoming	AEIO-320-E1B	150 HP		
- Aircraft Inspection Information					
Type of Last Inspection	Date of Last Inspection	Time Since Last Inspection	Airframe Total Time		
Annual	07/1999	9 Hours	1449 Hours		
- Emergency Locator Transmitter (ELT) Information					
ELT Installed? No	ELT Operated?	ELT Aided in Locating Accident Site?			
Owner/Operator Information					
Registered Aircraft Owner		Street Address			
KEMPTON AIR SERVICE		800 HERITAGE WAY			
		City	State	Zip Code	
		GRAND JUNCTION	CO	81506	
Operator of Aircraft		Street Address			
Same as Reg'd Aircraft Owner		Same as Reg'd Aircraft Owner			
		City	State	Zip Code	
Operator Does Business As:			Operator Designator Code:		
- Type of U.S. Certificate(s) Held: None					
Air Carrier Operating Certificate(s):					
Operating Certificate:					
Regulation Flight Conducted Under: Part 91: General Aviation					
Type of Flight Operation Conducted: Personal					

 <p>National Transportation Safety Board FACTUAL REPORT AVIATION</p>	NTSB ID: DEN00LA013
	Occurrence Date: 10/27/1999
	Occurrence Type: Accident

First Pilot Information

Name On File	City On File	State On File	Date of Birth On File	Age 62
-----------------	-----------------	------------------	--------------------------	-----------

Sex: M	Seat Occupied: Front	Principal Profession: Civilian Pilot	Certificate Number: On File
--------	----------------------	--------------------------------------	-----------------------------

Certificate(s): Flight Instructor; Commercial

Airplane Rating(s): Multi-engine Land; Single-engine Land

Rotorcraft/Glider/LTA: None

Instrument Rating(s): Airplane

Instructor Rating(s): Airplane Multi-engine; Airplane Single-engine; Instrument Airplane

Type Rating/Endorsement for Accident/Incident Aircraft?	Current Biennial Flight Review?
---	---------------------------------

Medical Cert.: Class 2	Medical Cert. Status: Valid Medical--w/ waivers/lim.	Date of Last Medical Exam: 09/1999
------------------------	--	------------------------------------

- Flight Time Matrix	All A/C	This Make and Model	Airplane Single Engine	Airplane Multi-Engine	Night	Instrument		Rotorcraft	Glider	Lighter Than Air
						Actual	Simulated			
Total Time	7815	47	6862	876	671	101	105			
Pilot In Command(PIC)	7508	47	6841	855	666	101	105			
Instructor	5932	44	5465	367	364	11				
Last 90 Days	101	10	101							
Last 30 Days	32	2	32							
Last 24 Hours	4	1	4							

Seatbelt Used? Yes	Shoulder Harness Used? Yes	Toxicology Performed? No	Second Pilot? No
--------------------	----------------------------	--------------------------	------------------

Flight Plan/Itinerary

Type of Flight Plan Filed: VFR

Departure Point GRAND JUNCTION	State CO	Airport Identifier GJT	Departure Time 1100	Time Zone MDT
-----------------------------------	-------------	---------------------------	------------------------	------------------

Destination Local Flight	State	Airport Identifier	
-----------------------------	-------	--------------------	--


Type of Clearance: VFR

Type of Airspace: Class D

Weather Information

Source of Briefing:

Method of Briefing:

 <p>National Transportation Safety Board FACTUAL REPORT AVIATION</p>	NTSB ID: DEN00LA013
	Occurrence Date: 10/27/1999
	Occurrence Type: Accident

Weather Information

WOF ID	Observation Time	Time Zone	WOF Elevation	WOF Distance From Accident Site	Direction From Accident Site
GJT	1130	MDT	4858 Ft. MSL	0 NM	0 Deg. Mag.
Sky/Lowest Cloud Condition: Clear			0 Ft. AGL	Condition of Light: Day	
Lowest Ceiling: None			0 Ft. AGL	Visibility: 10 SM	Altimeter: 30.00 "Hg
Temperature: 12 °C	Dew Point: -8 °C	Wind Direction:		Density Altitude: 5497 Ft.	
Wind Speed: Calm	Gusts:	Weather Conditions at Accident Site: Visual Conditions			
Visibility (RVR): 0 Ft.	Visibility (RVV) 0 SM	Intensity of Precipitation: Unknown			
Restrictions to Visibility: None					
Type of Precipitation: None					

Accident Information

Aircraft Damage: Substantial	Aircraft Fire: None	Aircraft Explosion: None
------------------------------	---------------------	--------------------------

Classification: U.S. Registered/U.S. Soil

- Injury Summary Matrix	Fatal	Serious	Minor	None	TOTAL
First Pilot				1	1
Second Pilot					
Student Pilot					
Flight Instructor					
Check Pilot					
Flight Engineer					
Cabin Attendants					
Other Crew					
Passengers				1	1
- TOTAL ABOARD -				2	2
Other Ground	0	0	0		0
- GRAND TOTAL -	0	0	0	2	2

National Transportation Safety Board

FACTUAL REPORT

AVIATION



NTSB ID: DEN00LA013

Occurrence Date: 10/27/1999

Occurrence Type: Accident

Administrative Information

Investigator-In-Charge (IIC)

B. BEACH SCOTT

Additional Persons Participating in This Accident/Incident Investigation:

JAY M MOONEY
FAA FSDO
SALT LAKE CITY, UT 84116