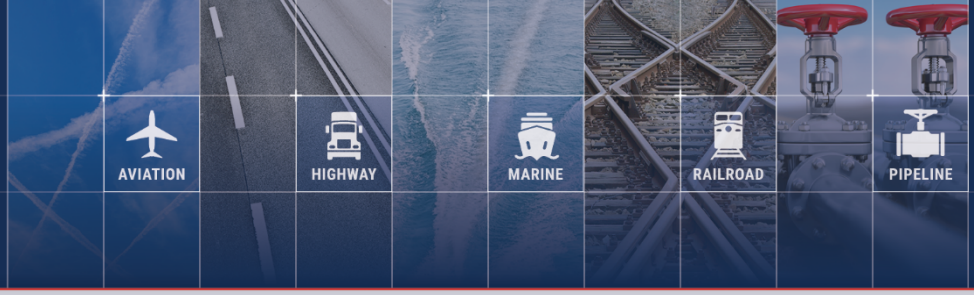

Aviation Investigation Final Report

Location:	DE FUNIAK SPGS, Florida	**Accident Number:**	MIA91LA214
Date & Time:	September 2, 1991, 11:00 Local	**Registration:**	N5103K
Aircraft:	RYAN NAVION A	**Aircraft Damage:**	Substantial
Defining Event:		**Injuries:**	1 Serious
Flight Conducted Under:	Part 91: General aviation - Personal		

Analysis

ENGINE QUIT WHILE PILOT WAS REDUCING POWER SHORTLY AFTER TAKEOFF. WHILE MANUEVERING FOR A FORCED LANDING THE AIRCRAFT STRUCK A TREE AND THEN COLLIDED WITH THE GROUND WHERE IT CAME TO REST UPRIGHT. POST CRASH EXAMINATION OF THE AIRCRAFT AND ENGINE REVEALED NO EVIDENCE TO INDICATE PRECRASH FAILURE OR MALFUNCTION OF THE ENGINE ASSEMBLY AND ACCESSORIES OR THE AIRCRAFT FUEL SYSTEM. NO EVIDENCE OF FUEL CONTAMINATION WAS FOUND. THE CAUSE FOR THE ENGINE FAILURE COULD NOT BE DETERMINED. THE PILOT STATED HE WAS NOT USING THE ELECTRIC FUEL BOOST PUMP AS CALLED FOR IN THE AIRCRAFT OPERATING CHECKLIST FOR TAKEOFF AND DID NOT TURN IT ON AFTER THE ENGINE FAILURE.

Probable Cause and Findings

The National Transportation Safety Board determines the probable cause(s) of this accident to be: THE LOSS OF ENGINE POWER FOR UNDETERMINED REASONS WHICH RESULTED IN AN INFLIGHT COLLISION WITH A TREE AND THE GROUND DURING THE SUBSEQUENT FORCED LANDING.

Findings

Occurrence #1: LOSS OF ENGINE POWER
Phase of Operation: TAKEOFF - INITIAL CLIMB

Findings
1. (C) REASON FOR OCCURRENCE UNDETERMINED

Occurrence #2: FORCED LANDING
Phase of Operation: DESCENT - EMERGENCY

Occurrence #3: IN FLIGHT COLLISION WITH OBJECT
Phase of Operation: DESCENT - EMERGENCY

Findings
2. OBJECT - TREE(S)

Occurrence #4: IN FLIGHT COLLISION WITH TERRAIN/WATER
Phase of Operation: DESCENT - UNCONTROLLED

Findings
3. TERRAIN CONDITION - GROUND

Factual Information

Pilot Information

Certificate:	Commercial; Flight instructor	**Age:**	52,Male
Airplane Rating(s):	Single-engine land; Multi-engine land	**Seat Occupied:**	Left
Other Aircraft Rating(s):	None	**Restraint Used:**	
Instrument Rating(s):	Airplane	**Second Pilot Present:**	No
Instructor Rating(s):	Airplane multi-engine; Airplane single-engine; Instrument airplane	**Toxicology Performed:**	No
Medical Certification:	Class 2 Valid Medical--w/ waivers/lim	**Last FAA Medical Exam:**	September 10, 1990
Occupational Pilot:	No	**Last Flight Review or Equivalent:**	
Flight Time:	798 hours (Total, all aircraft), 43 hours (Total, this make and model), 5 hours (Last 90 days, all aircraft), 3 hours (Last 30 days, all aircraft), 1 hours (Last 24 hours, all aircraft)		

Aircraft and Owner/Operator Information

Aircraft Make:	RYAN	**Registration:**	N5103K
Model/Series:	NAVION A NAVION A	**Aircraft Category:**	Airplane
Year of Manufacture:		**Amateur Built:**	
Airworthiness Certificate:	Normal	**Serial Number:**	2003
Landing Gear Type:	Retractable - Tricycle	**Seats:**	4
Date/Type of Last Inspection:	December 14, 1990 Annual	**Certified Max Gross Wt.:**	3233 lbs
Time Since Last Inspection:	5 Hrs	**Engines:**	1 Reciprocating
Airframe Total Time:	2351 Hrs	**Engine Manufacturer:**	CONTINENTAL
ELT:	Installed, not activated	**Engine Model/Series:**	E-185-9
Registered Owner:	DARRWLL R. JAMES	**Rated Power:**	205 Horsepower
Operator:	DARRWLL R. JAMES	**Operating Certificate(s) Held:**	None
Operator Does Business As:		**Operator Designator Code:**	

Meteorological Information and Flight Plan

Conditions at Accident Site:	Visual (VMC)	**Condition of Light:**	Day
Observation Facility, Elevation:	CEW ,215 ft msl	**Distance from Accident Site:**	25 Nautical Miles
Observation Time:	10:50 Local	**Direction from Accident Site:**	275°
Lowest Cloud Condition:	Scattered / 3000 ft AGL	**Visibility**	7 miles
Lowest Ceiling:	None	**Visibility (RVR):**	
Wind Speed/Gusts:	6 knots /	**Turbulence Type Forecast/Actual:**	/
Wind Direction:	70°	**Turbulence Severity Forecast/Actual:**	/
Altimeter Setting:	30 inches Hg	**Temperature/Dew Point:**	31°C / 23°C
Precipitation and Obscuration:	No Obscuration; No Precipitation		
Departure Point:		**Type of Flight Plan Filed:**	None
Destination:		**Type of Clearance:**	None
Departure Time:	11:00 Local	**Type of Airspace:**	Class G

Airport Information

Airport:		**Runway Surface Type:**	
Airport Elevation:		**Runway Surface Condition:**	
Runway Used:	0	**IFR Approach:**	
Runway Length/Width:		**VFR Approach/Landing:**	Forced landing

Wreckage and Impact Information

Crew Injuries:	1 Serious	**Aircraft Damage:**	Substantial
Passenger Injuries:		**Aircraft Fire:**	None
Ground Injuries:	N/A	**Aircraft Explosion:**	None
Total Injuries:	1 Serious	**Latitude, Longitude:**	30.850366,-86.199653(est)

Administrative Information

Investigator In Charge (IIC):	Kennedy, Jeffrey
Additional Participating Persons:	JACK KEESEY; BIRMINGHAM , AL ROGER HOLMSTROM; BIRMINGHAM , AL
Original Publish Date:	February 8, 1993
Last Revision Date:	
Investigation Class:	Class
Note:	
Investigation Docket:	https://data.ntsb.gov/Docket?ProjectID=32921