



Ref: 7281

# SOUTH AFRICAN CIVIL AVIATION AUTHORITY

## ACCIDENT REPORT – EXECUTIVE SUMMARY

<b>Aircraft Registration</b>	<b>ZS-IBG</b>	<b>Date of Accident</b>	1/12/2000	<b>Time of Accident</b>	1010Z
<b>Type of Aircraft</b>	BEECH V35B		<b>Type of Operation</b>	Private Flight	
<b>Pilot-in-command Licence Type</b>	Private	<b>Age</b>	38	<b>Licence Valid</b>	Yes
<b>Pilot-in-command Flying Experience</b>	Total Flying Hours	1025	<b>Hours on Type</b>	221	
<b>Last point of departure</b>	FATP (New Tempe Aerodrome)				
<b>Next point of intended landing</b>	FAVU (Volksrus)				
<b>Location of the accident site with reference to easily defined geographical points (GPS readings if possible)</b>					

Runway 10, Volksrus Aerodrome

<b>Meteorological Information</b>	CAVOK				
<b>Number of people on board</b>	1+1	<b>No. of people injured</b>	Nil	<b>No. of people killed</b>	Nil

### Synopsis

The pilot was on a private flight from New Tempe aerodrome to Volksrus when he experienced electrical failure while approximately 40nm inbound to Volksrus. Due to the electrical failure, the pilot was not able to extend the gear or flap normally on arrival at Volksrus, and had to lower the gear manually using the emergency extension system.

The pilot also contacted a friend via his cell phone, who verified that the gear was in the extended position prior to landing. The pilot executed a flap-less approach and landed on Runway 10.

Approximately 90m after touch down, the right-hand main gear collapsed followed by the left-hand- and nose gear, causing the aircraft to skid on it's belly and veer off the right-hand side of the runway. Minor damage was caused to the aircraft belly and propeller. No injuries were sustained.

After fitting a different battery and serviceable propeller, the aircraft was flown to Wonderboom with no further incident and with all electrical indications normal.

The voltage regulator, which had on a previous occasion caused electrical problems, was tested and found to operate satisfactory. No other electrical fault was found.

### Probable Cause

The cause for the electrical failure could not be determined. The fact that the landing gear collapsed indicates that the gear was not driven into the proper down-lock position. Whether this was a result of incorrect rigging or failure on the part of the pilot to drive the gear into the fully extended position could not be established with certainty.