

National Transportation Safety Board

**FACTUAL REPORT
AVIATION**

NTSB Accident/Incident Number

M I A 0 0 F A 0 4 1 A

Supplement B—Cockpit Documentation, Single and Twin Reciprocating Engine and Unpowered Aircraft

1 Cockpit Secured, Readings Not Pertinent 1 Yes (Go to block 3)

2 Cockpit/Instrument Panel Destroyed 1 Yes (Go to block 3)

Cockpit Instrument Indications—Enter direct in appropriate category

Flight Instruments		Engine/System Instruments	
Item	Reading/Setting	Item	Reading/Setting
AIR SPEED Directional Gyro HSI	110 KNOTS 275° HEADING 269° COURSE SELECT 220°	Left oil temp. Left oil pressure Left fuel pressure Left fuel gauge Left Tachometer Right Tachometer Right engine gauges Left Ammeter Right Ammeter	Green Arc ≈ 100 upper yellow ARC Green Arc ≈ 6 psi 21 gallons ≈ 450 RPM 8,738.4 ≈ 2,900 RPM 1,779.7 destroyed 39 19
Comm/Nav Equipment		Miscellaneous	
Item	Frequency/Remark	Item	Remark
COMM COMM NAV	122.8 125.57 112.6	Clock	1110:42

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3 Navigational Equipment/Displays Installed (Multiple entry) 1 <input checked="" type="checkbox"/> OMNI Head(s) 2 <input checked="" type="checkbox"/> Glide slope 3 <input checked="" type="checkbox"/> HSI 4 <input type="checkbox"/> Flight director 5 <input type="checkbox"/> RMI 6 <input type="checkbox"/> RNAV		7 <input type="checkbox"/> LORAN/Omega/INS 8 <input checked="" type="checkbox"/> DME 9 <input checked="" type="checkbox"/> ADF 10 <input type="checkbox"/> Marker beacons A Other		4 Autopilot 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Engaged 3 <input type="checkbox"/> Not engaged A Other		5 Digital Electronic/Nav/Com Displays 1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Installed A Other		6 Primary Altimeter Type 1 <input type="checkbox"/> Counter-pointer 2 <input type="checkbox"/> Drum-pointer 3 <input checked="" type="checkbox"/> 3-pointer 4 <input type="checkbox"/> 2-pointer A Other	
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7 Standby Altimeter Installed 1 <input type="checkbox"/> Yes 2 <input checked="" type="checkbox"/> No A Other		8 Radar Altimeter Installed 1 <input type="checkbox"/> Yes 2 <input checked="" type="checkbox"/> No A Other		9 Transponder 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed-not used 3 <input checked="" type="checkbox"/> Installed-used 4 <input type="checkbox"/> Installed-used-Altitude encoding A Other		10 Attitude Indicator Installed 1 <input checked="" type="checkbox"/> Yes 2 <input type="checkbox"/> No A Other	
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11 Attitude Indicator Power Source (Multiple entry) 1 <input checked="" type="checkbox"/> Pressure/vacuum system 2 <input type="checkbox"/> Pressure/vacuum system-with backup power source 3 <input type="checkbox"/> Electrical 4 <input type="checkbox"/> Standby indicator with alternate power source A Other		12 Type of Stall Warning Indicator 1 <input type="checkbox"/> None 2 <input type="checkbox"/> Visual/light 3 <input type="checkbox"/> Visual/gauge 4 <input checked="" type="checkbox"/> Aural 5 <input type="checkbox"/> Stickshaker A Other		13 Weather Radar/Detection Equipment 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed-on 3 <input type="checkbox"/> Installed-off 4 <input type="checkbox"/> Installed, on/off unknown A Other	
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14 Type Weather Radar/Detection Equipment (Multiple entry)
 1 Storm scope 2 Black and white radar 3 Color radar A Other

Electrical/System Switches 18 Switches Destroyed/Inaccessible (Go to block 56)
 19 Switch Positions Not Pertinent (Go to block 56)

Switch/Item	Not Installed 1	2 On	3 Off	A Other	Pertinent Setting/Remark
20 Electrical Master					
21 Battery					UNK
22 #1 Gen/Alternator		X			
23 #2 Gen/Alternator		X			
24 Inverter					
25 Avionics Master					
28 Pitot Heat			X		
29 Ice Detection					
30 Propeller Deice/Anti-ice					
31 Windshield Deice					
32 Windshield Anti-Ice					
33 Airframe Deice					
36 Cabin Air/Fan					
37 Cabin Heater					
38 Air Conditioning					
39 Cabin Pressure Altitude					
40 Cabin Pressure Temperature					
41 Crew Oxygen					
42 Cabin/Passenger Oxygen					
45 Taxi Lights					
46 Landing Lights			X		
47 Rotating Beacon		X			

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Electrical/System Switches (continued)

Switch/Item	1 Not Installed	2 On	3 Off	A Other	Pertinent Setting/Remark
48 Strobes					
49 Navigation Lights			X		
50 Instrument Panel Lights					
51 Cockpit/Storm Lights					
52 Cabin Lights					
53 ELT Remote					

Engine Controls-No. 1 Engine

56 Engine Control Positions Not Pertinent (Go to block 65)

<p>57 Throttle Position</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input checked="" type="checkbox"/> Full forward</p> <p>3 <input type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Idle</p> <p>A Other</p>	<p>58 Propeller</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input checked="" type="checkbox"/> Full increase (Low pitch)</p> <p>3 <input type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Full decrease (High pitch)</p> <p>5 <input type="checkbox"/> Feather</p> <p>A Other</p>	<p>59 Mixture</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input checked="" type="checkbox"/> Full rich</p> <p>3 <input type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Idle cutoff</p> <p>A Other</p>	<p>60 Carburetor Heat</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Full on</p> <p>3 <input type="checkbox"/> Partial</p> <p>4 <input type="checkbox"/> Off</p> <p>A Other UNK</p>
<p>61 Alternate Air</p> <p>1 <input checked="" type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Open</p> <p>3 <input type="checkbox"/> Closed</p> <p>4 <input type="checkbox"/> Midrange</p> <p>A Other</p>	<p>62 Cowl Flaps</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Open</p> <p>3 <input type="checkbox"/> Closed</p> <p>4 <input checked="" type="checkbox"/> Midrange</p> <p>A Other</p>	<p>63 Magneto Switch Position</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Both</p> <p>3 <input type="checkbox"/> Left</p> <p>4 <input type="checkbox"/> Right</p> <p>5 <input type="checkbox"/> Off</p> <p>6 <input type="checkbox"/> Start</p> <p>A Other UNK</p>	<p>64 Throttle Friction</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Tight</p> <p>3 <input checked="" type="checkbox"/> Loose</p> <p>A Other</p>

Engine Controls-No. 2 Engine

65 Engine Control Positions Not Pertinent (Go to block 74)

<p>66 Throttle Position</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input checked="" type="checkbox"/> Full forward</p> <p>3 <input type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Idle</p> <p>A Other</p>	<p>67 Propeller</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input checked="" type="checkbox"/> Full increase (Low pitch)</p> <p>3 <input type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Full decrease (High pitch)</p> <p>5 <input type="checkbox"/> Feather</p> <p>A Other</p>	<p>68 Mixture</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input checked="" type="checkbox"/> Full rich</p> <p>3 <input type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Idle cutoff</p> <p>A Other</p>	<p>69 Carburetor Heat</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Full on</p> <p>3 <input type="checkbox"/> Partial</p> <p>4 <input type="checkbox"/> Off</p> <p>A Other UNK</p>
<p>70 Alternate Air</p> <p>1 <input checked="" type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Open</p> <p>3 <input type="checkbox"/> Closed</p> <p>4 <input type="checkbox"/> Midrange</p> <p>A Other</p>	<p>71 Cowl Flaps</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input checked="" type="checkbox"/> Open</p> <p>3 <input type="checkbox"/> Closed</p> <p>4 <input type="checkbox"/> Midrange</p> <p>A Other</p>	<p>72 Magneto Switch Position</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Both</p> <p>3 <input type="checkbox"/> Left</p> <p>4 <input type="checkbox"/> Right</p> <p>5 <input type="checkbox"/> Off</p> <p>6 <input type="checkbox"/> Start</p> <p>A Other UNK</p>	<p>73 Throttle Friction</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Tight</p> <p>3 <input checked="" type="checkbox"/> Loose</p> <p>A Other</p>

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Landing Gear Controls/Indicators, Flight Controls/Indicators, and Fuel Selectors/Pumps

<p>74 Landing Gear Control</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Up 3 <input type="checkbox"/> Down 4 <input type="checkbox"/> Off A Other</p>	<p>75 Landing Gear Indicator</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Up 3 <input type="checkbox"/> Down 4 <input type="checkbox"/> Transit/unsafe A Other UNK</p>	<p>76 Trailing Edge Flap System</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Manual 3 <input type="checkbox"/> Electric 4 <input type="checkbox"/> Hydraulic A Other</p>	<p>77 Trailing Edge Flap Control</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Up A Down <u>10</u> deg. B Other</p>	<p>78 Trailing Edge Flap Indicator</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Up A Down _____ deg. B Other</p>
<p>79 Speed Brake Control</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Stowed 3 <input type="checkbox"/> Deployed A Other</p>	<p>80 Spoiler Control</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Stowed 3 <input type="checkbox"/> Deployed A Other</p>	<p>81 Dual Controls</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Installed A Other</p>	<p>82 Throwover Control Yoke/Position</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Left 3 <input type="checkbox"/> Right 4 <input type="checkbox"/> Intermediate A Other</p>	
<p>83 Elev/Stab Trim Control (Multiple entry)</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Manual 3 <input type="checkbox"/> Electric A Other</p>	<p>84 Elev/Stab Trim Indicator</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Up 3 <input type="checkbox"/> Down 4 <input type="checkbox"/> Neutral A Other UNK</p>	<p>85 Aileron Trim Control (Multiple entry)</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Manual 3 <input type="checkbox"/> Electric A Other</p>	<p>86 Aileron Trim Indicator</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Left 3 <input type="checkbox"/> Right 4 <input type="checkbox"/> Neutral A Other</p>	<p>87 Rudder Trim Indicator</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Left 3 <input type="checkbox"/> Right 4 <input type="checkbox"/> Neutral A Other UNK</p>
<p>88 Fuel Selector Position(s) (Multiple entry)</p> <p>1 <input type="checkbox"/> Left main 2 <input type="checkbox"/> Right main 3 <input type="checkbox"/> Both 4 <input type="checkbox"/> Left auxiliary 5 <input type="checkbox"/> Right auxiliary 6 <input type="checkbox"/> Center 7 <input type="checkbox"/> Forward 8 <input type="checkbox"/> Aft 9 <input type="checkbox"/> External tank 10 <input type="checkbox"/> Between tanks 11 <input type="checkbox"/> X-feed left to right 12 <input type="checkbox"/> X-feed right to left 13 <input checked="" type="checkbox"/> On-engine #1 14 <input type="checkbox"/> Off-engine #1 15 <input checked="" type="checkbox"/> On-engine #2 16 <input type="checkbox"/> Off-engine #2 A Other</p>			<p>89 Fuel Boost Pump, Engine #1</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> On 3 <input type="checkbox"/> High 4 <input type="checkbox"/> Low 5 <input type="checkbox"/> Off A Other</p>	
<p>90 Fuel Boost Pump, Engine #2</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> High 4 <input type="checkbox"/> Low 5 <input checked="" type="checkbox"/> Off A Other</p>	<p>91 Fuel Transfer Pump</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Off A On (____ tank to ____ tank) B Other</p>	<p>92 Primer, Engine #1</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Locked 3 <input checked="" type="checkbox"/> Unlocked A Other</p>	<p>93 Primer Engine #2</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Locked 3 <input type="checkbox"/> Unlocked A Other</p>	