

National Transportation Safety Board

**FACTUAL REPORT
AVIATION**

NTSB Accident/Incident Number

CH100FA040

Supplement D— Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine Powered Aircraft

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

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

Cockpit Instrument Indications—

Enter direct in appropriate category

Flight Instruments

Engine Instruments

Item	Reading/Setting	Item	Reading/Setting

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Aircraft Equipment

<p>3 Aircraft Certificated For Two-Pilot Operation</p> <p>1 <input checked="" type="checkbox"/> Yes 2 <input type="checkbox"/> No A Other</p>	<p>4 Autopilot</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Engaged 3 <input type="checkbox"/> Not engaged A Other <i>Destroyed</i></p>	<p>5 Digital Electronic Nav/Comm Displays</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Installed A Other <i>Destroyed</i></p>	<p>6 Heads Up Display</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> In use 3 <input type="checkbox"/> Not in use A Other</p>
<p>7 Nav Equipment/Displays Installed (Multiple entry)</p> <p>1 <input type="checkbox"/> OMNI heads 2 <input type="checkbox"/> Glide slope 3 <input checked="" type="checkbox"/> HSI 4 <input checked="" type="checkbox"/> Flight director 5 <input type="checkbox"/> RMI 6 <input type="checkbox"/> RNAV 7 <input type="checkbox"/> INS</p> <p>8 <input type="checkbox"/> VLF/Omega 9 <input type="checkbox"/> LORAN 10 <input checked="" type="checkbox"/> DME 11 <input checked="" type="checkbox"/> ADF 12 <input type="checkbox"/> Marker beacons A Other <i>GPS</i></p>	<p>8 Left Panel Altimeter Type</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Counter/pointer 3 <input type="checkbox"/> Drum/pointer 4 <input type="checkbox"/> 3-pointer 5 <input type="checkbox"/> 2-pointer A Other <i>Destroyed</i></p>	<p>9 Right Panel Altimeter Type</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Counter/pointer 3 <input type="checkbox"/> Drum/pointer 4 <input type="checkbox"/> 3-pointer 5 <input type="checkbox"/> 2-pointer A Other <i>Destroyed</i></p>	<p>10 Standby Altimeter</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Installed A Other</p> <p>11 Radar Altimeter</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Installed A Other <i>Destroyed</i></p>
<p>12 Angle of Attack Indicator</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Installed A Other <i>Destroyed</i></p>	<p>13 Attitude Indicators Installed and Operating (Multiple entry)</p> <p>1 <input checked="" type="checkbox"/> Left position 2 <input checked="" type="checkbox"/> Right position 3 <input type="checkbox"/> None operating A Other</p>	<p>14 Primary Attitude Indicator Power Source (Multiple entry)</p> <p>1 <input type="checkbox"/> Pressure/vacuum system 2 <input type="checkbox"/> Pressure/vacuum system with backup power source 3 <input checked="" type="checkbox"/> Electrical 4 <input type="checkbox"/> Standby indicator with alternate power source A Other</p>	<p>15 Type of Stall Warning Indicator (Multiple entry)</p> <p>1 <input type="checkbox"/> Visual/light 2 <input type="checkbox"/> Visual/gauge 3 <input checked="" type="checkbox"/> Aural 4 <input type="checkbox"/> Stickpusher 5 <input checked="" type="checkbox"/> Stickshaker A Other</p>
<p>16 Stall Warning System Capable of Operation</p> <p>1 <input type="checkbox"/> Yes 2 <input type="checkbox"/> No 3 <input type="checkbox"/> Partial A Other <i>Destroyed</i></p>	<p>17 Transponder</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed-not used 3 <input type="checkbox"/> Installed-used 4 <input checked="" type="checkbox"/> Installed-used-altimeter encoding A Other</p>	<p>18 Weather Radar/Detection Equipment</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Installed-on 3 <input type="checkbox"/> Installed-off 4 <input checked="" type="checkbox"/> Installed, on/off unknown A Other</p>	
<p>19 Weather Radar</p> <p>1 <input type="checkbox"/> Operative 2 <input type="checkbox"/> Inoperative A Other <i>Destroyed</i></p>	<p>20 Type Weather Radar/Detection Equipment</p> <p>1 <input type="checkbox"/> Storm scope 2 <input type="checkbox"/> Black and white radar 3 <input checked="" type="checkbox"/> Color radar A Other</p>		

Electric/System Switches

24 Switches Destroyed/Inaccessible (Go to block 76)
25 Switch Positions Not Pertinent (Go to block 76)

Switch/Item				A Other	Pertinent Setting/Remark
	1 Not Installed	2 On	3 Off		
26 Electrical Master					
27 Battery					
28 APU					
29 #1 Gen/Alternator					
30 #2 Gen/Alternator					
31 #3 Gen/Alternator					
32 #4 Gen/Alternator					
33 Inverter					
34 Avionics Master					
37 Pitot Heat					
38 Engine/Nacelle Anti-Ice					
39 Engine Deice					
40 Ice Detection					

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C/H/100/F/A/0/40

Supplement D— Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine Powered Aircraft (continued)

Electric/System Switches (continued)

Switch/Item				A Other (Enter code)	Pertinent Setting/Remark
	1 Not Installed	2 On	3 Off		
41 Propeller Deice/Anti-Ice					
42 Windshield Deice					
43 Windshield Anti-Ice					
44 Airframe Deice					
47 Cockpit Air/Fan					
48 Cabin Air/Fan					
49 Cabin Heater					
50 Air Conditioning					
51 Cabin Pressure Altitude					
52 Cabin Pressure Temperature					
53 Crew Oxygen					
54 Cabin/Passenger Oxygen					
57 Taxi Lights					
58 Landing Lights					
59 Rotating Beacon					
60 Strobes					
61 Navigation Lights					
62 Instrument Panel Lights					
63 Cockpit/Storm Lights					
64 Cabin Lights					
65 Seat Belt Light					
66 No Smoking Light					
67 ELT Remote					
70 Antiskid System					
71 Ground Proximity Warning					
72 Altitude Alert					
73 Collision Avoidance System					

Engine Controls—No. 1 Engine

76 Engine Control Positions Not Pertinent (Go to No. 2 Engine)

<p>77 Throttle</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Full forward</p> <p>3 <input checked="" type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Idle</p> <p>A Other</p>	<p>78 Condition/Power</p> <p>1 <input checked="" type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Full forward</p> <p>3 <input type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Idle</p> <p>5 <input type="checkbox"/> Reverse</p> <p>6 <input type="checkbox"/> Off</p> <p>A Other</p>	<p>79 Mixture</p> <p>1 <input checked="" type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Full rich</p> <p>3 <input type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Idle cutoff</p> <p>5 <input type="checkbox"/> Auto</p> <p>A Other</p>	<p>80 Propeller</p> <p>1 <input checked="" type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Power range</p> <p>3 <input type="checkbox"/> Reverse</p> <p>4 <input type="checkbox"/> Feather</p> <p>5 <input type="checkbox"/> Beta</p> <p>A Other</p>	<p>81 Carburetor Heat</p> <p>1 <input checked="" 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</p>	<p>82 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>83 Cowl Flaps</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>84 Magneto Switch Position</p> <p>1 <input checked="" 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>A Other</p>	<p>85 Auto Ignition</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> On</p> <p>3 <input type="checkbox"/> Off</p> <p>A Other <i>yes</i> <i>DESTROYED</i> <i>MANUAL-select type</i></p>	<p>86 Auto Feather</p> <p>1 <input checked="" type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> On</p> <p>3 <input type="checkbox"/> Off</p> <p>A Other</p>	<p>87 Throttle Quadrant Friction</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Tight</p> <p>3 <input type="checkbox"/> Loose</p> <p>A Other <i>DESTROYED</i></p>	

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C41100FA040

Supplement D— Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine Powered Aircraft (continued)

Engine Controls—No. 2 Engine

88 Engine Control Positions Not Pertinent (Go to No. 3 Engine)

<p>89 Throttle</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full forward 3 <input checked="" type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle A Other</p>	<p>90 Condition/Power</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Full forward 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle 5 <input type="checkbox"/> Reverse 6 <input type="checkbox"/> Off A Other</p>	<p>91 Mixture</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Full rich 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle cutoff 5 <input type="checkbox"/> Auto A Other</p>	<p>92 Propeller</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Power range 3 <input type="checkbox"/> Reverse 4 <input type="checkbox"/> Feather 5 <input type="checkbox"/> Beta A Other</p>	<p>93 Carburetor Heat</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Full on 3 <input type="checkbox"/> Partial 4 <input type="checkbox"/> Off A Other</p>	<p>94 Alternate Air</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other</p>
<p>95 Cowl Flaps</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other</p>	<p>96 Magneto Switch Position</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Both 3 <input type="checkbox"/> Left 4 <input type="checkbox"/> Right 5 <input type="checkbox"/> Off A Other</p>	<p>97 Auto Ignition</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other <i>yes DESTROYED</i> <i>MAGNET-SWITCH TYPE</i></p>	<p>98 Auto Feather</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other</p>	<p>99 Throttle Quadrant Friction</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Tight 3 <input type="checkbox"/> Loose A Other <i>DESTROYED</i></p>	

Engine Controls—No. 3 Engine

100 Engine Control Positions Not Pertinent (Go to No. 4 Engine)

<p>101 Throttle</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full forward 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle A Other</p>	<p>102 Condition/Power</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full forward 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle 5 <input type="checkbox"/> Reverse 6 <input type="checkbox"/> Off A Other</p>	<p>103 Mixture</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full rich 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle cutoff 5 <input type="checkbox"/> Auto A Other</p>	<p>104 Propeller</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Power range 3 <input type="checkbox"/> Reverse 4 <input type="checkbox"/> Feather 5 <input type="checkbox"/> Beta A Other</p>	<p>105 Carburetor Heat</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full on 3 <input type="checkbox"/> Partial 4 <input type="checkbox"/> Off A Other</p>	<p>106 Alternate Air</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other</p>
<p>107 Cowl Flaps</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other</p>	<p>108 Magneto Switch Position</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Both 3 <input type="checkbox"/> Left 4 <input type="checkbox"/> Right 5 <input type="checkbox"/> Off A Other</p>	<p>109 Auto Ignition</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other</p>	<p>110 Auto Feather</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other</p>	<p>111 Throttle Quadrant Friction</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Tight 3 <input type="checkbox"/> Loose A Other</p>	

Engine Controls—No. 4 Engine

112 Engine Control Positions Not Pertinent (Go to block 124)

<p>113 Throttle</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full forward 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle A Other</p>	<p>114 Condition/Power</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full forward 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle 5 <input type="checkbox"/> Reverse 6 <input type="checkbox"/> Off A Other</p>	<p>115 Mixture</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full rich 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle cutoff 5 <input type="checkbox"/> Auto A Other</p>	<p>116 Propeller</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Power range 3 <input type="checkbox"/> Reverse 4 <input type="checkbox"/> Feather 5 <input type="checkbox"/> Beta A Other</p>	<p>117 Carburetor Heat</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full on 3 <input type="checkbox"/> Partial 4 <input type="checkbox"/> Off A Other</p>	<p>118 Alternate Air</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other</p>
<p>119 Cowl Flaps</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other</p>	<p>120 Magneto Switch Position</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Both 3 <input type="checkbox"/> Left 4 <input type="checkbox"/> Right 5 <input type="checkbox"/> Off A Other</p>	<p>121 Auto Ignition</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other</p>	<p>122 Auto Feather</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other</p>	<p>123 Throttle Quadrant Friction</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Tight 3 <input type="checkbox"/> Loose A Other</p>	

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C14110101FA101410

Supplement D - Cockpit Documentation, Multi (3 or more) Reciprocating Engine and Turbine Powered Aircraft (continued)

Landing Gear Controls/Indicators and Flight Control/Indicators

<p>124 Landing Gear Control</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Up 3 <input type="checkbox"/> Down 4 <input type="checkbox"/> Neutral/off A Other <i>DESTROYED</i></p>	<p>125 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 <i>DESTROYED</i></p>	<p>126 Trailing Edge Flap Control</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Up A Down _____ deg. B Other <i>DESTROYED</i></p>	<p>127 Trailing Edge Flap Indicator</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Up A Down _____ deg. B Other <i>DESTROYED</i></p>	
<p>128 Leading Edge Flap Control</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Up A Down _____ deg. B Other</p>	<p>129 Leading Edge Flap Indicator</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Up A Down _____ deg. B Other</p>	<p>130 Leading Edge Slat Control</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Up A Down _____ deg. B Other</p>	<p>131 Leading Edge Slat Indicator</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Up A Down _____ deg. B Other</p>	
<p>132 Flight Spoiler Control</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Stowed 3 <input type="checkbox"/> Deployed A Other <i>DESTROYED</i></p>	<p>133 Ground Spoiler Control</p> <p>1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Stowed 3 <input type="checkbox"/> Armed 4 <input type="checkbox"/> Deployed A Other <i>DESTROYED</i></p>	<p>134 Drag Chute</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Stowed 3 <input type="checkbox"/> Deployed A Other</p>	<p>135 Autothrottle</p> <p>1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Engaged 3 <input type="checkbox"/> Not engaged A Other</p>	<p>136 Dual Controls</p> <p>1 <input type="checkbox"/> Not installed 2 <input checked="" type="checkbox"/> Installed A Other</p>
<p>137 Elevator/Stab Trim Control</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 <i>DESTROYED</i></p>	<p>138 Aileron 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 <i>DESTROYED</i></p>	<p>139 Upper 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 <i>DESTROYED</i></p>	<p>140 Lower Rudder 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>	