

# FACTUAL REPORT AVIATION

N Y C 9 9 M A I 7 8

## Supplement B—Cockpit Documentation, Single and Twin Reciprocating Engine and Unpowered 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/System Instruments	
Item	Reading/Setting	Item	Reading/Setting
AIR SPEED INDICATOR	MARK, TWO NEEDLE WINDSHIELD ABOVE 810 KTS	TACHOMETER - - - -	2,750 RPM
ALTIMETER	270 FEET (30.09 IN HG)	TACH HOURS - - - -	663.5
TURN COORDINATOR	RT TURN	MANIFOLD PRESSURE -	27 IN HG
HEADING INDICATOR	339 DEGREES	FUEL FLOW - - - - -	22 GAL PER HR
PICTORIAL NAV INDICATOR	300/180 DEGREE BEARING	EXHAUST GAS TEMP - -	1,000° F
FLIGHT COMMAND IND	RIGHT (RT) TURN, 125° BANK, 30° NOSE DOWN	OIL TEMP - - - - -	150° F
		OIL PRESSURE - - - -	17 PSI
Comm/Nav Equipment		Miscellaneous	
Item	Frequency/Remark	Item	Remark
Comm #1 IN-USE	132.02		
STANDBY	135.25		
NAV #1 IN-USE	109.80		
STANDBY	113.10		
Comm #2 IN-USE	121.40		
STANDBY	127.25		
NAV #2 IN-USE	108.80		
STANDBY	110.00		
ADF	PRIMARY 400 KHZ		
	SECONDARY 200 KHZ		

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NYC 99MA178

**Supplement B—Cockpit Documentation, Single and Twin Reciprocating Engine and Unpowered Aircraft (continued)**

<p><b>3 Navigational Equipment/Displays Installed (Multiple entry)</b></p> <p>1 <input checked="" type="checkbox"/> OMNI Head(s)                  2 <input checked="" type="checkbox"/> Glide slope                  3 <input checked="" type="checkbox"/> HSI                  4 <input checked="" type="checkbox"/> Flight director                  5 <input checked="" type="checkbox"/> RMI                  6 <input checked="" type="checkbox"/> RNAV</p>	<p>7 <input type="checkbox"/> LORAN/Omega/INS                  8 <input checked="" type="checkbox"/> DME                  9 <input checked="" type="checkbox"/> ADF                  10 <input checked="" type="checkbox"/> Marker beacons                  A Other <b>GPS</b></p>	<p><b>4 Autopilot</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input type="checkbox"/> Engaged                  3 <input type="checkbox"/> Not engaged                  A Other  <b>INSTALLED</b></p>	<p><b>5 Digital Electronic/Nav/Com Displays</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input checked="" type="checkbox"/> Installed                  A Other</p>	<p><b>6 Primary Altimeter Type</b></p> <p>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</p>
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<p><b>7 Standby Altimeter Installed</b></p> <p>1 <input type="checkbox"/> Yes                  2 <input checked="" type="checkbox"/> No                  A Other</p>	<p><b>8 Radar Altimeter Installed</b></p> <p>1 <input type="checkbox"/> Yes                  2 <input checked="" type="checkbox"/> No                  A Other</p>	<p><b>9 Transponder</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input type="checkbox"/> Installed-not used                  3 <input checked="" type="checkbox"/> Installed-used                  4 <input checked="" type="checkbox"/> Installed-used-Altitude encoding                  A Other</p>	<p><b>10 Altimeter Installed</b></p> <p>1 <input checked="" type="checkbox"/> Yes                  2 <input type="checkbox"/> No                  A Other</p>
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<p><b>11 Altimeter Power Source (Multiple entry)</b></p> <p>1 <input checked="" 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><b>12 Type of Stall Warning Indicator</b></p> <p>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</p>	<p><b>13 Weather Radar/Detection Equipment</b></p> <p>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</p>
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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	2 On	3 Off	A Other	Pertinent Setting/Remark
20 Electrical Master					
21 Battery					
22 #1 Gen/Alternator					
23 #2 Gen/Alternator					
24 Inverter					
25 Avionics Master					
28 Pilot Heat					
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					
47 Rotating Beacon					

National Transportation Safety Board

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NTSB Accident/Incident Number

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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					
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 type="checkbox"/> Full rich</p> <p>3 <input type="checkbox"/> Midrange</p> <p>4 <input type="checkbox"/> Idle cutoff</p> <p>A Other <i>UNK</i></p>	<p>60 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>61 Alternate Air</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input type="checkbox"/> Open</p> <p>3 <input checked="" 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 type="checkbox"/> Midrange</p> <p>A Other <i>UNK</i></p>	<p>63 Magneto Switch Position</p> <p>1 <input type="checkbox"/> Not installed</p> <p>2 <input checked="" 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</p>	<p>64 Throttle 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>UNK</i></p>

Engine Controls-No. 2 Engine

*NOT INSTALLED*

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 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 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 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</p>
<p>70 Alternate Air</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 type="checkbox"/> Midrange</p> <p>A Other</p>	<p>71 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 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</p>	<p>73 Throttle 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</p>

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NTSB Accident/Incident Number

*N19191MA1178*

**Supplement B—Cockpit Documentation, Single and Twin Reciprocating Engine and Unpowered Aircraft (continued)**

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

<p><b>74 Landing Gear Control</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input type="checkbox"/> Up                  3 <input type="checkbox"/> Down                  4 <input type="checkbox"/> Off                  A Other <i>UNK</i></p>	<p><b>75 Landing Gear Indicator</b></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>UNK</i></p>	<p><b>76 Trailing Edge Flap System</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input type="checkbox"/> Manual                  3 <input checked="" type="checkbox"/> Electric                  4 <input type="checkbox"/> Hydraulic                  A Other</p>	<p><b>77 Trailing Edge Flap Control</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input checked="" type="checkbox"/> Up                  A Down _____ deg.                  B Other</p>	<p><b>78 Trailing Edge Flap Indicator</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input type="checkbox"/> Up                  A Down _____ deg.                  B Other <i>UNK</i></p>
<p><b>79 Speed Brake Control</b></p> <p>1 <input checked="" type="checkbox"/> Not installed                  2 <input type="checkbox"/> Stowed                  3 <input type="checkbox"/> Deployed                  A Other</p>	<p><b>80 Spoiler Control</b></p> <p>1 <input checked="" type="checkbox"/> Not installed                  2 <input type="checkbox"/> Stowed                  3 <input type="checkbox"/> Deployed                  A Other</p>	<p><b>81 Dual Controls</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input checked="" type="checkbox"/> Installed                  A Other</p>	<p><b>82 Throwover Control Yoke/Position</b></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><b>83 Elev/Stab Trim Control (Multiple entry)</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input checked="" type="checkbox"/> Manual                  3 <input checked="" type="checkbox"/> Electric                  A Other</p>	<p><b>84 Elev/Stab Trim Indicator</b></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>UNK</i></p>	<p><b>85 Aileron Trim Control (Multiple entry)</b></p> <p>1 <input checked="" type="checkbox"/> Not installed                  2 <input type="checkbox"/> Manual                  3 <input type="checkbox"/> Electric                  A Other</p>	<p><b>86 Aileron Trim Indicator</b></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><b>87 Rudder Trim Indicator</b></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>UNK</i></p>
<p><b>88 Fuel Selector Position(s) (Multiple entry)</b></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 type="checkbox"/> On-engine #1                  14 <input checked="" type="checkbox"/> Off-engine #1                  15 <input type="checkbox"/> On-engine #2                  16 <input type="checkbox"/> Off-engine #2                  A Other <i>DAMAGED/OFF</i></p>			<p><b>89 Fuel Boost Pump, Engine #1</b></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 type="checkbox"/> Off                  A Other <i>UNK</i></p>	
<p><b>90 Fuel Boost Pump, Engine #2</b></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 type="checkbox"/> Off                  A Other <i>NA</i></p>	<p><b>91 Fuel Transfer Pump</b></p> <p>1 <input checked="" type="checkbox"/> Not installed                  2 <input type="checkbox"/> Off                  A On (____ tank to ____ tank)                  B Other</p>	<p><b>92 Primer, Engine #1</b></p> <p>1 <input checked="" type="checkbox"/> Not installed                  2 <input type="checkbox"/> Locked                  3 <input type="checkbox"/> Unlocked                  A Other</p>	<p><b>93 Primer Engine #2</b></p> <p>1 <input type="checkbox"/> Not installed                  2 <input type="checkbox"/> Locked                  3 <input type="checkbox"/> Unlocked                  A Other <i>NA</i></p>	