

National Transportation Safety Board

FACTUAL REPORT
AVIATION

NTSB Accident/Incident Number

LAX 00GA 286

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
AIR SPEED	0	OIL TEMP	0
ALTIMETER	4,900 FT.	N ₁	0
DIR. GYRO	240°	N ₂	0
ATTITUDE GYRO	12° LT, NOSE DN	N _R	0
		TOT	0
		TORQUE	4%

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Powered Aircraft (continued)

Cockpit Instrument Indications (continued)—

Enter direct in appropriate category

Aircraft System Instrumentation

Communications and Navigation Equipment

Item	Reading/Setting	Item	Frequency/Setting/Reading
TRANS OIL PRESS	0	VOR	190°
TRANS OIL TEMP	0		
FUEL QTY	0		
LOAD METER	0		
HOUR METER	2238.2		
START COUNT	1613.9		

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Aircraft Equipment

3 Aircraft Certificated For Two-Pilot Operation

- 1 Yes
- 2 No
- A Other

4 Autopilot

- 1 Not installed
- 2 Engaged
- 3 Not engaged
- A Other

5 Digital Electronic Nav/Comm Displays

- 1 Not installed
- 2 Installed
- A Other

6 Heads Up Display

- 1 Not installed
- 2 In use
- 3 Not in use
- A Other

7 Nav Equipment/Displays Installed (Multiple entry)

- 1 OMNI heads
- 2 Glide slope
- 3 HSI
- 4 Flight director
- 5 RMI
- 6 RNAV
- 7 INS
- 8 VLF/Omega
- 9 LORAN
- 10 DME
- 11 ADF
- 12 Marker beacons
- A Other

8 Left Panel Altimeter Type

- 1 Not installed
- 2 Counter/pointer
- 3 Drum/pointer
- 4 3-pointer
- 5 2-pointer
- A Other

9 Right Panel Altimeter Type

- 1 Not installed
- 2 Counter/pointer
- 3 Drum/pointer
- 4 3-pointer
- 5 2-pointer
- A Other

10 Standby Altimeter

- 1 Not installed
- 2 Installed
- A Other

11 Radar Altimeter

- 1 Not installed
- 2 Installed
- A Other

12 Angle of Attack Indicator

- 1 Not installed
- 2 Installed
- A Other

13 Attitude Indicators Installed and Operating (Multiple entry)

- 1 Left position
- 2 Right position
- 3 None operating
- A Other

14 Primary Attitude Indicator Power Source (Multiple entry)

- 1 Pressure/vacuum system
- 2 Pressure/vacuum system with backup power source
- 3 Electrical
- 4 Standby indicator with alternate power source
- A Other

15 Type of Stall Warning Indicator (Multiple entry)

- 1 Visual/light
- 2 Visual/gauge
- 3 Aural
- 4 Stickpusher
- 5 Stickshaker
- A Other *N/A*

16 Stall Warning System Capable of Operation

- 1 Yes
- 2 No
- 3 Partial
- A Other *N/A*

17 Transponder

- 1 Not installed
- 2 Installed-not used
- 3 Installed-used
- 4 Installed-used-altimeter encoding
- A Other

18 Weather Radar/Detection Equipment

- 1 Not installed
- 2 Installed-on
- 3 Installed-off
- 4 Installed, on/off unknown
- A Other

19 Weather Radar

- 1 Operative
- 2 Inoperative
- A Other *N/A*

20 Type Weather Radar/Detection Equipment

- 1 Storm scope
- 2 Black and white radar
- 3 Color radar
- A Other *N/A*

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			X		
27 Battery	X				
28 APU	X				
29 #1 Gen/Alternator			X		
30 #2 Gen/Alternator	X				
31 #3 Gen/Alternator	X				
32 #4 Gen/Alternator	X				
33 Inverter	X				
34 Avionics Master	X				
37 Pitot Heat	X				
38 Engine/Nacelle Anti-Ice			X		
39 Engine Deice	X				
40 Ice Detection	X				

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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	X				
42 Windshield Deice	X				
43 Windshield Anti-Ice	X				
44 Airframe Deice	X				
47 Cockpit Air/Fan	X				
48 Cabin Air/Fan	X				
49 Cabin Heater			X		
50 Air Conditioning	X				
51 Cabin Pressure Altitude	X				
52 Cabin Pressure Temperature	X				
53 Crew Oxygen	X				
54 Cabin/Passenger Oxygen	X				
57 Taxi Lights	X				
58 Landing Lights			X		
59 Rotating Beacon			X		
60 Strobes	X				
61 Navigation Lights			X		
62 Instrument Panel Lights			X		
63 Cockpit/Storm Lights	X				
64 Cabin Lights	X				
65 Seat Belt Light	X				
66 No Smoking Light	X				
67 ELT Remote	X				
70 Antiskid System	X				
71 Ground Proximity Warning	X				
72 Altitude Alert	X				
73 Collision Avoidance System	X				

Engine Controls—No. 1 Engine

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

77 Throttle 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full forward 3 <input type="checkbox"/> Midrange 4 <input checked="" type="checkbox"/> Idle A Other	78 Condition/Power 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	79 Mixture 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	80 Propeller 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	81 Carburetor Heat 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	82 Alternate Air 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other
83 Cowl Flaps 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other	84 Magneto Switch Position 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 <i>N/A</i>	85 Auto Ignition 1 <input checked="" type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other	86 Auto Feather 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other <i>N/A</i>	87 Throttle Quadrant Friction 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Tight 3 <input type="checkbox"/> Loose A Other <i>N/A</i>	

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Engine Controls—No. 2 Engine

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

89 Throttle 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full forward 3 <input type="checkbox"/> Midrange 4 <input type="checkbox"/> Idle A Other	90 Condition/Power 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	91 Mixture 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	92 Propeller 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	93 Carburetor Heat 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Full on 3 <input type="checkbox"/> Partial 4 <input type="checkbox"/> Off A Other	94 Alternate Air 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other
95 Cowl Flaps 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Open 3 <input type="checkbox"/> Closed 4 <input type="checkbox"/> Midrange A Other	96 Magneto Switch Position 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	97 Auto Ignition 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other	98 Auto Feather 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> On 3 <input type="checkbox"/> Off A Other	99 Throttle Quadrant Friction 1 <input type="checkbox"/> Not installed 2 <input type="checkbox"/> Tight 3 <input type="checkbox"/> Loose A Other	

Engine Controls—No. 3 Engine

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

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

Engine Controls—No. 4 Engine

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

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

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Landing Gear Controls/Indicators and Flight Control/Indicators

124 Landing Gear Control

- 1 Not installed
- 2 Up
- 3 Down
- 4 Neutral off
- A Other *N/A*

125 Landing Gear Indicator

- 1 Not installed
- 2 Up
- 3 Down
- 4 Transit unsafe
- A Other *N/A*

126 Trailing Edge Flap Control

- 1 Not installed
- 2 Up
- A Down _____ deg.
- B Other *N/A*

127 Trailing Edge Flap Indicator

- 1 Not installed
- 2 Up
- A Down _____ deg.
- B Other *N/A*

128 Leading Edge Flap Control

- 1 Not installed
- 2 Up
- A Down _____ deg.
- B Other *N/A*

129 Leading Edge Flap Indicator

- 1 Not installed
- 2 Up
- A Down _____ deg.
- B Other *N/A*

130 Leading Edge Slat Control

- 1 Not installed
- 2 Up
- A Down _____ deg.
- B Other *N/A*

131 Leading Edge Slat Indicator

- 1 Not installed
- 2 Up
- A Down _____ deg.
- B Other *N/A*

132 Flight Spoiler Control

- 1 Not installed
- 2 Stowed
- 3 Deployed
- A Other *N/A*

133 Ground Spoiler Control

- 1 Not installed
- 2 Stowed
- 3 Armed
- 4 Deployed
- A Other *N/A*

134 Drag Chute

- 1 Not installed
- 2 Stowed
- 3 Deployed
- A Other

135 Autothrottle

- 1 Not installed
- 2 Engaged
- 3 Not engaged
- A Other

136 Dual Controls

- 1 Not installed
- 2 Installed
- A Other

137 Elevator/Stab Trim Control

- 1 Not installed
- 2 Up
- 3 Down
- 4 Neutral
- A Other *N/A*

138 Aileron Trim Indicator

- 1 Not installed
- 2 Left
- 3 Right
- 4 Neutral
- A Other *N/A*

139 Upper Rudder Trim Indicator

- 1 Not installed
- 2 Left
- 3 Right
- 4 Neutral
- A Other *N/A*

140 Lower Rudder Trim Indicator

- 1 Not installed
- 2 Left
- 3 Right
- 4 Neutral
- A Other *N/A*