

INCLUDING SPINS. DESIGN MANEUVERING SPEED 140 MPH. MAX FLAP DOWN SPEED 115 MPH. MAX CROSSWIND VELOCITY LANDING 15 MPH. ALT. LOSS FROM STALL 220 FT.

(2) THE OPERATION OF THIS AIRPLANE IS LIMITED TO DAY AND NIGHT\* VFR FLIGHT CONDITIONS. FLIGHT INTO KNOWN ICING CONDITIONS IS PROHIBITED.

\*Delete the words "AND NIGHT" unless aircraft is equipped with operable lighting package.

(3) PUSH STICK FORWARD TO UNLOCK TAILWHEEL.

(4) PARK BRAKE OPERATION:  
ON: DEPRESS PEDALS AND PULL LEVER  
OFF: DEPRESS PEDALS

(5) DO NOT OPERATE PUMP ABOVE 140 MPH.

(6) REDUCE ENGINE RPM TO 2200 OR LESS WHEN OPERATING NEAR HOUSES OR AREAS WHERE EXCESSIVE NOISE SHOULD BE AVOIDED.

(7) DO NOT TURN ALTERNATOR OFF IN FLIGHT EXCEPT IN CASE OF EMERGENCY.

(8) WARNING: SULFUR DUSTING IS PROHIBITED UNLESS SPECIAL FIRE PREVENTION MEASURES ARE INCORPORATED IN AIRCRAFT.

(9) Next to carb heat knob: PULL FOR CARB HEAT.

(10) Next to fuel press. light: WARNING LOW FUEL PRESSURE.

(11) On canopy doors: DO NOT OPEN DOORS IN FLIGHT.

(12) On canopy doors: IF DOORS WILL NOT OPEN AFTER OVERTURN, KICK OUT WINDOW WITH KNEES OR FEET.

(13) Next to Chip Detector Light: CHIP DETECTOR (If installed)

(14) Below Hopper Rinse Fill: HOPPER RINSE TANK FILL (If installed)

(15) Below Windshield Washer fill: WINDSHIELD WASHER FILL

NOTE 3 Safe-life of Air Tractor Model AT-501 serial numbers 501-0002 thru 501-0061 wing lower spar caps and attaching structure is limited to 4,531 hours time in service.

Safe-life of Air Tractor Model AT-501, all serial numbers beginning with 501-0062, wing lower spar caps and attaching structure is limited to 7,693 hours time in service.

NOTE 4 Air Tractor Model AT-501 airplane is eligible for conversion to Model AT-502 configuration in accordance with Air Tractor Service Letter No. 80A dated April 14, 1989.

IV - Model AT-502 1 PCLM (Restricted Category), Approved June 23, 1987

- Engine Pratt & Whitney PT6A-15AG, PT6A-27, PT6A-34, PT6-34AG, PT6A-36, or PT6A-34B.
- Fuel Per specifications CPW 46, PWA 522, GB 6537-94 (Peoples' Republic of China RP-3 kerosene), or Automotive diesel fuels.
- Oil Per specifications CPW 202 or PWA 521.

Engine Limits PT6A-15AG or PT6A-27

Power Setting	SHP	Torque Ft-Lb	Maximum Observed ITT°C	Ng RPM %	Np RPM %	Oil Pres PSIG	Oil Temp °C
All Operations	680 ISA +6.7°C	1628	725	38,100 101.5	2200 100.0	80 to 100	10 to 99
Lo Idle			660			40 (MIN)	-40 to 99
Starting			1090 2 seconds				-40 (MIN)
Transient		2100	825 2 seconds	38,500 102.6	2420 110.0		0 to 99
Max Reverse	620	1554	725	35,812 95.5	2100 95.5	80 to 100	0 to 99

Engine Limits PT6A-34, PT6A-34AG, PT6A-36, or PT6A-34B

Power Setting	SHP	Torque Ft-Lb	Maximum Observed ITT°C	Ng RPM %	Np RPM %	Oil Pres PSIG	Oil Temp °C
All Operations	750 ISA +15.6°C	1795	790	38,100 101.5	2200 100.0	85 to 105	10 to 99
Lo Idle			685			40 (MIN)	-40 to 99
Starting			1090 2 seconds				-40 (MIN)
Transient		2100	850 2 seconds	38,500 102.6	2420 110.0		0 to 99
Max Reverse	750	1795	790	35,812 95.5	2100 95.5	85 - 105	0 to 99

- Propeller & Hartzell HC-B3TN-3D/T10282 +4 or HC-B3TN-3D/T10282N + 4 or HC-B3TN-3D/T10282NS + 4
- Propeller Maximum dia. 106 inch, minimum. dia. 102 inch.
- Limits Pitch settings, high 86° - 88°, low 18°, reverse -8.0° at 30-inch station.
- Airspeed Limits (CAS) VNE (Never Exceed) 155 mph (135 knots)  
VA (Maneuvering) 140 mph (122 knots)  
VNO (Max. structural cruise) 140 mph (122 knots)  
VFE (Flap extended) 115 mph (100 knots)  
See NOTE 6 regarding VNE speed
- C.G. Range (+16.0) to (+26.0) at 6,500 lbs (S/N 502-0003 thru 502-0038)  
(+16.0) to (+28.0) at 6,500 lbs (S/N 502-0039 thru 502-0061)  
(+16.0) to (+24.0) at 8,000 lbs (S/N 502-0062 and subs.)  
(+16.0) to (+28.0) at 6,980 lbs and below  
Straight-line variation between points  
See NOTE 4 regarding C.G. range.
- Max Weight 6,500 lbs. (S/N 502-0003 thru 502-0061)  
8,000 lbs. (S/N 502-0062 and subs.)  
See NOTE 5 regarding gross weight
- No. of Seats 1 (+74.0), 2(+74.0) with optional buddy seat installed per Dwg. 11360
- Max Hopper Load 4,100 lbs. (+12.0)
- Fuel Capacity 126 gal. (+33.0)  
(120-gal. usable capacity, one 63.0 gal. tank in each wing.)  
234 gallons optional (228 gallons usable)  
216 gallons optional (210 gallons usable)  
170 gallons optional (164 gallons usable)
- Oil Capacity 2.3 gals. (1.5 gals. usable)

- NOTE 3 Safe-life of Air Tractor Model AT-502 wing lower spar caps and attaching structure, all serial numbers beginning with 502-0003, is limited to 1,650 hours time in service.
- Owners may continue to operate their AT-502 aircraft beyond the safe-life listed above by following the requirements in Appendix 2-Alternative Method of Compliance (AMOC) to AD 2006-24-10.
- Safe-life of Air Tractor Model AT-502 wings, any serial number beginning with 502-0003, that have been retrofitted with p/n 21058-1 and 21058-2 wing lower spar caps and p/n 21059-1/-2 spar blocks is 9,800 hours time in service from time of retrofit.
- NOTE 4 C.G. range on serials 502-0003 through 502-0038 may be changed to (+16.0) to (+28.0) at 6,500 lbs. by removing existing elevator down spring attach strap and installing p/n 70466-3 strap per Dwg. 70465.
- NOTE 5 Gross weight on serial 502-0002 through 502-0061 may be increased to 8,000 lbs. by incorporating main spar modifications in accordance with Air Tractor Service Letter No. 80J dated March 6, 1993.
- NOTE 6 VNE (Never Exceed) may be increased to 176 mph (153 knots) when Hartzell HC-B3TN-3D/T10282NS + 4 propeller is installed.

V - Model AT-402 1 PCLM (Restricted Category), Approved December 2, 1988

- Engine Pratt & Whitney PT6A-15AG, PT6A-27, PT6A-34, or PT6-34AG
- Fuel Per Specification CPW 46, PWA 522, GB 6537-94 (Peoples' Republic of China RP-3 kerosene), or automotive diesel fuels.
- Oil Per Specification CPW 202 or PWA 521.

Engine Limits PT6A-15AG or PT6A-27

Power Setting	SHP	Torque Ft-Lb	Maximum Observed ITT°C	Ng RPM %	Np RPM %	Oil Pres PSIG	Oil Temp °C
All Operations	680 ISA +6.7°C	1628	725	38,100 101.5	2200 100.0	80 to 100	10 to 99
Lo Idle			660			40 (MIN)	-40 to 99
Starting			1090 2 seconds				-40 (MIN)
Transient		2100	825 2 seconds	38,500 102.6	2420 110.0		0 to 99
Max Reverse	620	1554	725	35,812 95.5	2100 95.5	80 to 100	0 to 99

Engine Limits PT6A-34 or PT6A-34AG

Power Setting	SHP	Torque Ft-Lb	Maximum Observed ITT°C	Ng RPM %	Np RPM %	Oil Pres PSIG	Oil Temp °C
All Operations	680 ISA +15.6°	1628	790	38,100 101.5	2200 100.0	85 to 105	10 to 99
Lo Idle			685			40 (MIN)	-40 to 99
Starting			1090 2 seconds				-40 (MIN)
Transient		2100	850 2 seconds	38,500 102.6	2420 110.0		0 to 99
Max Reverse	620	1554	750	35,812 95.5	2100 95.5	85 to 100	0 to 99

- Propeller & Hartzell HC-B3TN-3D/T10282 + 4 or HC-B3TN-3D/T10282N + 4 or HC-B3TN-3D/T10282NS + 4
- Propeller Max dia. 106 inch Min dia. 102 inch
- Limits Pitch settings feather 86° - 88°, low 18°, reverse -8.0° at 30-inch station.
- Airspeed VNE (Never Exceed) 140 mph (122 knots)
- Limits VA (Maneuvering) 140 mph (122 knots)