

# AT-401B



STEP UP TO THE AT-401B

## STEP UP TO MORE THAN THREE DECADES OF EXPERIENCE



When Leland Snow delivered the first S-2B in 1958, a star was born. Today, that star is known as Air Tractor, recognized throughout the world as an aircraft continually updated and refined to better serve the needs of ag aviation.

After the S-2 models came the AT-301, which so impressed the industry that over 500 models were put into service. Then in 1986, Snow issued a new challenge to his engineering team. They were to improve upon the hugely successful AT-301, and design a new radial engine ag plane that would further increase productivity for operators while also lowering maintenance costs. After hundreds of hours of

design, revision and testing, the first AT-401 was delivered in 1987. The 401 included several new features to help the pilots cover more acres with less cost, an extremely attractive benefit to the ag industry.

Since that time the rugged durability, safety and flying ease of the Air Tractor have made it the choice of operators throughout the world. Further revisions are found today in the new model AT-401B, with more standard features and better performance than ever before. Join the ranks of your fellow ag sprayers and step up to the finest piston engine ag plane in the industry...the Air Tractor AT-401B.

## STEP UP TO UNPARALLELED SAFETY

One of the most important design considerations to Air Tractor engineers is pilot safety. The AT-401B, like every Air Tractor, provides outstanding visibility, a stall-resistant wing design, and more-than-ample power teamed with clean aerodynamics to assure superior performance even with large payloads.

The exceptional crashworthiness of the Air Tractor has been put to the test over the years, and in many instances has proved to be a primary factor in assuring pilot safety. Energy-absorbing spring steel landing gear, burst-resistant fuel tanks, a 5,000 lb. pilot restraint system, heavy wall overturn structure, optimal battery location, helicopter seat design and flexible fuel line construction help protect the pilot in the event of a crash.



3 piece windshield available as option



## STEP UP TO FEATURES YOU CAN BANK ON

Whatever your needs, the AT-401B offers an unprecedented combination of features designed to meet the cost of doing business today - economically, efficiently and productively.

### OIL COOLER SHUTTER

New Air Tractor design allows the pilot to mechanically open and close the oil cooler air scoop as necessary, keeping cold air out much more effectively than duct tape.

### STANDARD HOPPER RINSE SYSTEM

Air Tractor's efficient rinse system gives operators the versatility to rinse the hopper while ferrying to the next spray location. Ferry time is reduced, and productivity is increased.

### LONGER WINGSPAN FOR INCREASED PERFORMANCE

Hoerner winglaps increase the aircraft's wingspan from 49 feet to 51 feet for wider swath widths, faster rate of climb and better overall control.

### STALL RESISTANT WING DESIGN

Steel spar caps allow for increased gross weight. Reinforced leading edge reduces denting from bird strikes.

### 5-BLADE GROUND ADJUSTABLE SPRAY FAN

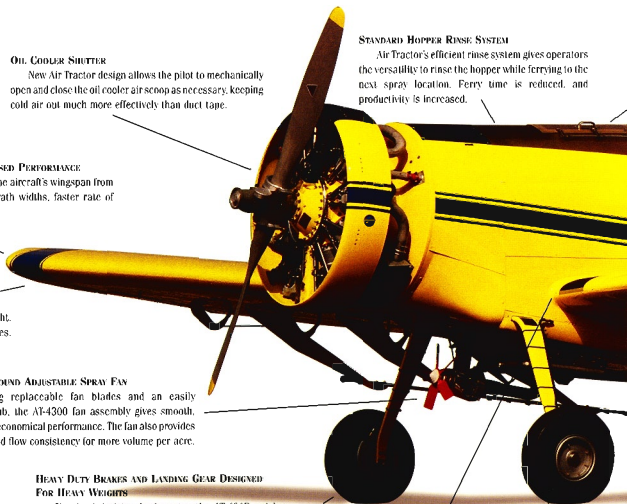
Featuring replaceable fan blades and an easily adjustable hub, the AT-4300 fan assembly gives smooth, efficient and economical performance. The fan also provides increased fluid flow consistency for more volume per acre.

### HEAVY DUTY BRAKES AND LANDING GEAR DESIGNED FOR HEAVY WEIGHTS

Cleveland 4-piston brakes stop the AT-401B *quicker*, while the thicker brake disc provides more heat soak, less brake maintenance and longer life. 1-1/8-inch landing gear spring thickness handles bigger hopper loads with less deflection, resulting in less tire wear and longer spring life. Larger turbine wheels and brakes are also available.

### FIBERGLASS WING FAIRINGS STREAMLINE WING ROOT

In addition to the aerodynamic advantages, these fairings help keep fertilizer out of the fuselage by lapping the side skins over the fairings.



**400 GALLON HOPPER CUTS FERRY TIME**  
The large hopper lid allows quick loading of solids, while the all-stainless hinges and latches keep the lid pulled down tight to resist leaking.

**ERGONOMICALLY DESIGNED INSTRUMENT PANEL**

All instruments are in close proximity to the pilot's line of sight. The upper panel has plenty of room between it and the hopper, is attached with six Camlocs and can be removed in less than one minute. Hinged lower instrument panel allows easy access to electrical switches and wiring.

**FOUR LONGERON FUSELAGE**

Aft fuselage structure increases rigidity and reduces removable skin maintenance.

**ALL METAL ELEVATOR AND RUDDER**

Elevator has increased surface area forward of the hinge line for very light control pressure. Rudder has boost tab to lower pilot effort and provide control harmony with elevator and aileron pressures.

**SPRAY BOOMS LOWERED 4 INCHES**

Keeps the spray off the tail gear and delivers an even, 80-foot wide swath unmatched in the industry.

**LOW MAINTENANCE TAIL GEAR**

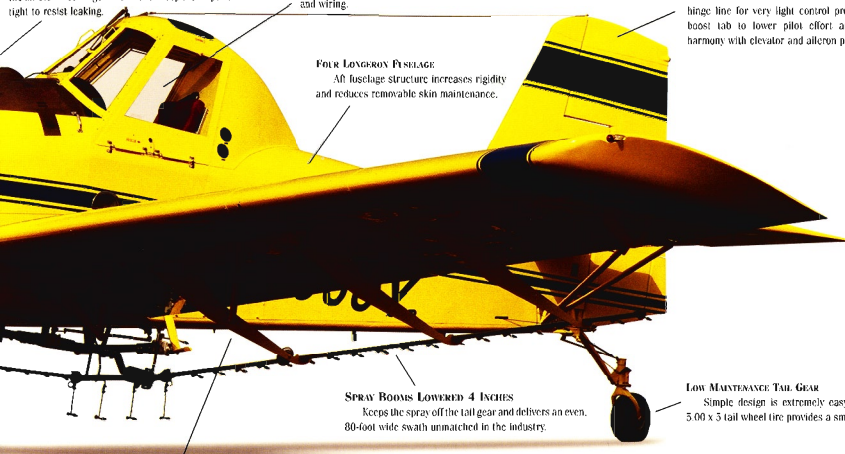
Simple design is extremely easy to service. Large 5.00 x 5 tail wheel tire provides a smooth and easy ride.

**EFFICIENT FLAPS ANDAILERON DROOP FOR MAXIMUM TAKE-OFF PERFORMANCE**

Flap span was increased by 4 feet, making an efficient flap system even better. Ailerons droop 10 degrees when flaps are fully extended.

**UPDATED, LIGHTAILERON FORCES**

Redesigned aileron boost tabs allow quick roll rates with minimum pilot effort, an important factor during long work days.



## STEP UP TO THE POWER OF PRATT & WHITNEY



When you manufacture the world's finest ag plane, naturally you want only the finest power plant up front. The AT-401B utilizes the ultra-powerful and rugged Pratt & Whitney R1340 radial engine for working speeds up to 140 m.p.h. Each R1340 has been remanufactured to Air Tractor specifications that include Air Tractor's new crankshaft, new main and thrust bearings, new pistons, new blower bearings, fresh porous-chrome cylinders for low oil consumption, and new extended wear tailored rings.

The AT-401B also features an airframe design that facilitates conversion to turbine power as the need for a higher level of productivity is realized. As the world's only proven piston powered spray plane with the option of converting to either a new or used PT6 turbine engine, the AT-401B is the perfect partner for a growing business.

## STEP UP TO OUTSTANDING DEALER & FACTORY SUPPORT

Through its network of dealers, Air Tractor is uniquely able to satisfy the needs of virtually any ag sprayer in the world. Whether you're looking for a new AT-401B or shopping for a pre-owned model, your authorized Air Tractor dealer network is ready to work for you. As aviation professionals, Air Tractor dealers have the technical information you need, coupled with common sense advice gained from years of experience.

And the Air Tractor factory in Olney, Texas is yet another source for operators. Air Tractor has undertaken several replacement parts projects - including PMA approved main and thrust bearings and a new crankshaft design - that assure a continued, reliable source of power plants for the ag industry.



## STEP UP TO AIR TRACTOR

For over 30 years, Air Tractor has been manufacturing the finest ag planes for virtually any operation. These sturdy, reliable, powerful and maneuverable aircraft have become the dominant ag planes in the United States and throughout the world. Air Tractor engineers continually work to improve the line, in addition to introducing new models as ag spraying needs continue to change.

Our commitment is to produce a highly productive, safe and reliable ag plane...an aircraft that helps aerial applicators provide the highest quality, most efficient spray services possible. If this is what you are looking for, it's time to step up to the Air Tractor AT-401B.

## AT-401B

### Standard Equipment

Hornier wing tips  
 Hopper rinse system  
 AT-4300 5-blade adjustable spray fan  
 Oil cooler shutter  
 2-inch stainless spray system with streamlined booms.  
 41 nozzles  
 Bottom loading valve, 2-1/2" Transland  
 2-inch Agrinautics spray pump with Transland on-off valve  
 400-gallon Vinylster (Derakane) hopper  
 Panel-mounted instrument sized hopper quantity gauge  
 Hopper window  
 Transland 38-inch wide gate box  
 3-color polyurethane paint finish  
 8.50 x 10 tires with 4-piston brakes, heavy duty brake disc  
 1-1/8" thick E-4340 main landing gear spring  
 2-blade Constant-Speed propeller, new manufacture blades  
 35 amp alternator, wiring for night work lights  
 Electrically operated high lift flaps with aileron droop

126 gallon fuel tanks  
 Speed ring  
 Ground start receptacle  
 Night flight package of strobe/nav lights  
 Engine oil filter  
 Fiberglass wing fairings  
 All-metal empennage  
 Alloy steel lower wing spar caps  
 Reinforced wing leading edge, .080" thick  
 Aileron boost tabs  
 Rudder boost tabs  
 Elevator boost tabs  
 4-inch cabin vent system  
 Open nylon mesh seat covers

### Optional Equipment

8-unit Mini-Atomizer Micronair installation  
 Night working lights  
 Retractable 600 watt landing light  
 ACK emergency locator transmitter  
 King KY196 COM radio  
 King KY155 NAV/COM  
 3-piece, safety plate glass center windshield  
 Windshield washer and wiper  
 Ferry fuel system  
 2-blade hydromatic prop  
 Transland 22358 extra high volume spreader  
 Transland 54401 NorCal Swathmaster  
 40 extra nozzles for high volume spraying  
 Crop Hawk Flowmeter  
 3-inch spray system  
 Automatic Flagman  
 Weather-Aero Fan  
 Fire-bombing dump door and vent

### Specifications

Engine type	.....P&W R1340
Engine H.P. and R.P.M.	.....600 @2250
Propeller	.....12D40/6101A-12
Take-off weight	.....7,860 lbs.
Landing weight	.....6,000 lbs.
Empty weight with spray equip. installed	.....4,244 lbs.
Useful load	.....3,616 lbs.
Hopper capacity (U.S. gallons)	.....400
Fuel capacity (U.S. gallons)	.....126
Oil capacity (U.S.)	.....8.0
Wing span	.....51 ft.
Wing area	.....306 sq. ft.
Main wheel size	.....8.50 x 10
Tail wheel size	.....5.00 x 5

### Performance With Spray Equipment Installed

Top speed @S.L. (empty)	.....156 m.p.h.
Cruise speed @2,000'-27" (4,000')	.....143 m.p.h.
Working speed (typical)	.....120-140 m.p.h.
Stall speed @ 6,000 lbs. flaps up	.....73 m.p.h.
Stall speed @ 6,000 lbs. flaps down	.....61 m.p.h.
Stall speed as usually landed	.....54 m.p.h.
Rate of climb @6,000 lbs. @S.L.	.....1,100 f.p.m.
Rate of climb @7,860 lbs. @S.L.	.....520 f.p.m.
Take-off distance @7,860 lbs.	.....1,318 ft.
Range, economy cruise 1900-23" @8,000 ft.,	
132 m.p.h. T.A.S. no reserve	.....630 miles



**Air Tractor, Inc.**

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