



SERVICE LETTER NUMBER 165

TITLE: AIR TRACTOR AIRSPEED PLACARDS

BY: E. BISHOP	AIRCRAFT MAKE/MODEL(S): AT-802, AT-802A	FLOAT MODEL(S): N/A	NOTE(S): Mandatory Compliance S/L P/N 1008773 ECO 24460
APP: J. SORTOR			
DATE: 04/15/16			
REV: A			

FAA APPROVAL HAS BEEN OBTAINED FOR TECHNICAL DATA IN THIS PUBLICATION THAT AFFECTS STC OR TSO DESIGN COMPLIANCE

EFFECTIVITY:

This service letter applies to: All AT-802 and AT-802A with STC SA01916CH issued prior to April 15, 2016.

COMPLIANCE:

Compliance with this service letter is mandatory.

BACKGROUND:

Air Tractor AT-802 and AT-802A aircraft can be delivered from the factory with the airspeed indicator in units of miles per hour, as an option. Previously Wipaire placards and flight manual supplement data for STC SA01916CH was only given in units of knots. The purpose of this service letter is to provide updated placards and flight manual supplements that have dual units for operators with airspeed indicators displaying miles per hour.

Additionally, AT-802 aircraft with STC SA01916CH issued between April 3, 2015 and January 1, 2016 have an additional airspeed placard that should not be installed. This service letter ensures the correct placards are installed.

COMPLIANCE METHOD:

Mandatory inspection of airspeed indicator is required. If airspeed indicator has units of "knots", further action may not be necessary. If airspeed indicator has units of "miles per hour" (MPH), follow instructions found in this service letter. Additionally, mandatory inspection of AT-802 placards is necessary and may require removal of one placard.



WARRANTY INFORMATION:

Replacement placards and updated flight manual supplements, if required, will be provided at no charge.

TECHNICAL DATA:

Follow the numbered instructions in order, unless instructed to skip ahead to a step.

1. For AT-802A (single-place), continue from here. For AT-802 (2-place), go to step 7.
2. Accomplishment Instructions for AT-802A (single-place): Inspect the airspeed indicator. If airspeed indicator is in knots, no further action is required, however it is recommended that the airspeed indicator is remarked to the proper markings which eliminate the need for airspeed placards. For instructions on this go to step 3. If airspeed indicator is in miles per hour (MPH), go to step 4. If airspeed indicator is not to be remarked, go to step 15.
3. If remarking airspeed indicator, change the markings as shown below.

Bottom of green arc:	87 knots
Dashed green arc:	72 to 87 knots
Bottom of white arc:	75 knots
Dashed white arc:	62 to 72 knots
V _{NE} (redline):	186 knots (if optional propeller HC-B5MA-3D/M11691NS is installed) In this case the top of the yellow arc should end at 186 knots.

After the airspeed indicator is remarked, the following placards must be removed from the panel, if installed:

STCSA01916CH VORTEX GENERATORS
STALL SPEEDS ARE APPROXIMATELY 5
KIAS LOWER THAN REFLECTED ON THE
AIRSPEED INDICATOR

WITH THE OPTIONAL
HC-B5MA-3D/M11691NS PROPELLER
INSTALLED V_{NE} = 186 KIAS

FIRE BOSS LANDPLANE STALL
SPEEDS ARE APPROXIMATELY
5 KIAS LOWER THAN REFLECTED
ON THE AIRSPEED INDICATOR

Go to step 14 for final items associated with this service letter.

4. If airspeed indicator is in miles per hour, it is recommended the airspeed indicator is remarked with the proper markings. For instructions on this see step 5. If airspeed indicator is not remarked, the existing placards must be replaced. For instructions on this see step 6.

5. If remarking airspeed indicator, change the markings as shown below.

Bottom of green arc:	100 mph
Dashed green arc:	83 to 100 mph
Bottom of white arc:	86 mph
Dashed white arc:	71 to 86 mph
V _{NE} (redline):	214 mph (if optional propeller HC-B5MA-3D/M11691NS is installed) In this case the top of the yellow arc should end at 214 mph.

After the airspeed indicator is remarked, the following placards must be removed from the panel, if installed:

STCSA01916CH VORTEX GENERATORS
STALL SPEEDS ARE APPROXIMATELY 5
KIAS LOWER THAN REFLECTED ON THE
AIRSPEED INDICATOR

WITH THE OPTIONAL
HC-B5MA-3D/M11691NS PROPELLER
INSTALLED V_{NE} = 186 KIAS

FIRE BOSS LANDPLANE STALL
SPEEDS ARE APPROXIMATELY
5 KIAS LOWER THAN REFLECTED
ON THE AIRSPEED INDICATOR

Go to step 14 for final items associated with this service letter.

- To replace placards (airspeed indicator not remarked), contact Wipaire Customer Service at 651-306-0459 or 1-888-947-2473 and order kit 1008773-01 for new placards. Additionally you must provide the aircraft model, engine model, registration number, and serial number for issuance of a revised flight manual supplement. The new placards are shown below and should replace any similar placards that were previously installed.

STC SA01916CH VORTEX GENERATORS
STALL SPEEDS ARE APPROXIMATELY
5 KIAS/6 MIAS LOWER THAN REFLECTED
ON THE AIRSPEED INDICATOR

WITH THE OPTIONAL
HC-B5MA-3D/M11691NS PROPELLER
INSTALLED $V_{NE} = 186$ KIAS/214 MIAS

Go to step 15 for final items associated with this service letter.

- Accomplishment Instructions for AT-802 (2-place): Verify the following placard is not installed. If it is found installed, remove placard and discard, and contact Wipaire Customer Service at 651-306-0459 or 1-888-947-2473 to obtain a copy of installation drawing 1004245 revision E or later.

STCSA01916CH VORTEX GENERATORS
STALL SPEEDS ARE APPROXIMATELY 5
KIAS LOWER THAN REFLECTED ON THE
AIRSPEED INDICATOR

- If aircraft has HC-B5MA-3D/M11691NS propeller installed, go to step 9. If aircraft does not have this propeller installed, go to step 15.
- Inspect pilot airspeed indicator. If airspeed indicator is in knots, continue to step 10. If airspeed indicator is in miles per hour, go to step 11.

10. If airspeed indicator is in knots, no further action is required. The following placard should already be installed:

WITH THE OPTIONAL
HC-B5MA-3D/M11691NS PROPELLER
INSTALLED $V_{NE} = 186$ KIAS

It is recommended the airspeed indicator be remarked for V_{NE} redline at 186 knots. In this case the top of the yellow arc should end at 186 knots.

Go to step 14 for final items associated with this service letter.

11. If airspeed indicator is in miles per hour, it is recommended the airspeed indicator be remarked with the proper markings. For instructions on this see step 12. If airspeed indicator is not remarked, the existing placard must be replaced. For instructions on this see step 13.

12. Remark airspeed indicator for V_{NE} redline at 214 mph. In this case the top of the yellow arc should end at 214 mph. Remove the placard shown below. If the aircraft has a rear instrument panel, the rear panel should be marked inoperative in landplane configuration, or the airspeed indicator and placard configuration should match the forward cockpit. Go to step 14.

WITH THE OPTIONAL
HC-B5MA-3D/M11691NS PROPELLER
INSTALLED $V_{NE} = 186$ KIAS

13. The existing placard must be replaced with the placard shown below. Contact Wipaire Customer Service at 651-306-0459 or 1-888-947-2473 and order 1008773-02. Additionally you must provide the aircraft model, engine model, registration number, and serial number for issuance of a revised flight manual supplement. The new placard is shown below and should replace the similar placard that was previously installed. If the aircraft has a rear instrument panel, the rear panel should be marked inoperative in landplane configuration, or the airspeed indicator and placard configuration should match the forward cockpit. Go to step 15 for final instructions.

WITH THE OPTIONAL
 HC-B5MA-3D/M11691NS PROPELLER
 INSTALLED $V_{NE} = 186$ KIAS/214 MIAS

14. A revised flight manual supplement is needed. Contact Wipaire Customer Service at 651-306-0459 or 1-888-947-2473 to order. You must provide the aircraft model, engine model, registration number, and serial number for issuance of a revised flight manual supplement.

15. Enter information in aircraft logbook for completion of Wipaire Service Letter 158. Once service letter is accomplished, please visit www.wipaire.com and update your aircraft service letter/kit record using the link found on the Customer Support dropdown menu under "Update Service Letter & Kit Compliance Status".

For reference, the bill of materials for the service letter kits are shown below.

1008773-01 QTY	1008773-02 QTY	PART NUMBER	DESCRIPTION
1	1	1004671	PLACARD, OPTIONAL PROPELLER INSTALL
1	0	7A3-4408	PLACARD, LANDPLANE VORTEX GENERATOR STALL

END