



WIPLINE FLOATS • SKIS • MODIFICATIONS • AIRCRAFT SALES
AVIONICS • INTERIOR • MAINTENANCE • PAINT REFINISHING

SERVICE LETTER 126
PAGE 1 of 2 REV: B

SERVICE LETTER NUMBER 126			
TITLE: STERN BULKHEADS, LOWER FLANGE REINFORCEMENT			
BY: K. TAYLOR	AIRCRAFT MAKE/MODEL(S): FIREBOSS AIR TRACTOR 802 & 802A	FLOAT MODEL(S): 10000	NOTE(S): OPTIONAL COMPLIANCE S/L P/N 1005511 ECO 22619
APP: R. ADLER			
DATE: 7-DEC-11			
REV: B			

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 S/N 10118 and prior Wipline model 10000 amphibian floats, as installed on "Fireboss" Air Tractor 802 and 802A aircraft. This service letter applies to Air Tractor 802/802A aircraft equipped with STC SA01795CH.

COMPLIANCE:

Service letter compliance is optional and recommended.

BACKGROUND:

Certain aircraft operated in rough water or operated in a high-cycle water scooping environment may experience cracking of the lower stern bulkhead flanges below the lower water rudder post attachment. This service letter and associated kit reinforce the lower bulkhead flanges of the stern bulkheads to assist in load transfer and reduce probability of cracking.

COMPLIANCE METHOD:

Install the parts included in service kit 82 in accordance with the instructions in the Technical Data section of this service letter.

APPROX. SHOP HOURS:

This service letter will take approximately 20 labor hours to complete.

WARRANTY INFORMATION:

Parts and labor warranty is not included for this modification.



TECHNICAL DATA:

Copies of this service letter, associated service kit, float service manual, and float parts manual are available on the website www.wipaire.com.

See service kit number 82 for a list of parts and materials applicable to this modification.

For basic model 10000 maintenance information, see Wipaire Service Manual P/N 1002545.

For basic model 10000 parts information, see Wipaire Parts Manual P/N 1002179.

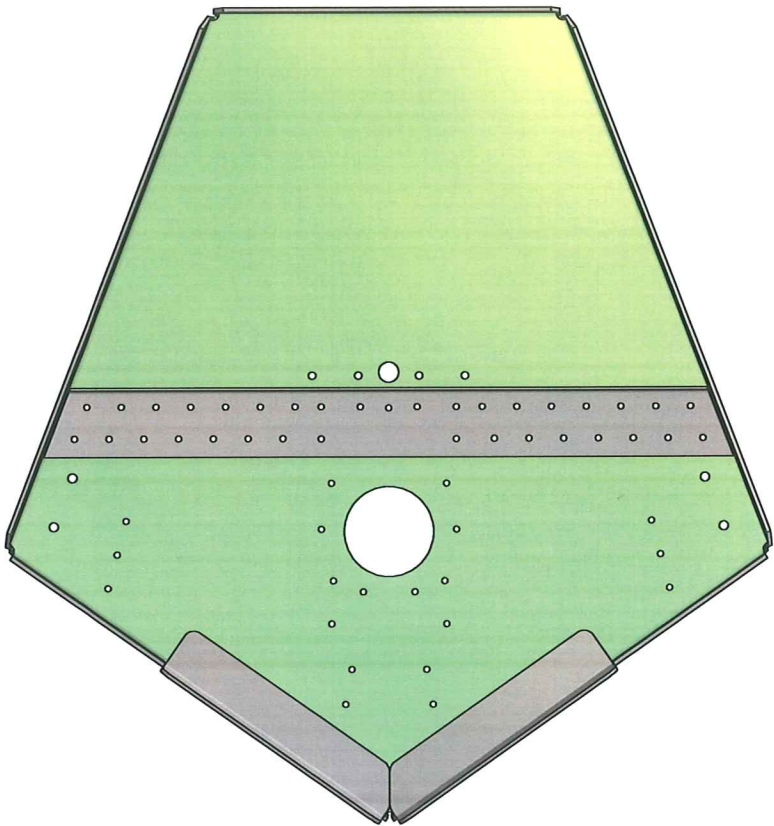
To accomplish this modification: Install lower angle doublers P/N 1005621 and 1005622 on the forward side of hull bulkhead station 22 in accordance with modification drawing P/N 1005529, latest approved revision. Follow the detailed instructions on the modification drawing to install the angles. The doubler should be installed on both the port and starboard hulls. For reference, the stern bulkhead assembly is P/N 1002681. The angles tie the bottom skin to the bulkhead and reinforce the structure.

NOTES:

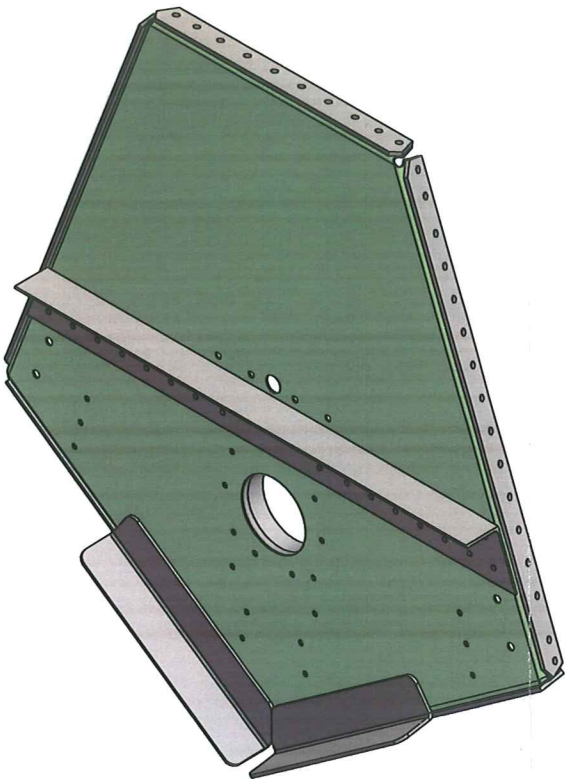
After completion of the instructions in this service letter, make an entry as such in the aircraft logbook in accordance with your local Civil Aviation regulations. If an empty weight and balance update is required, use a single component P/N weight of 0.16 lbs at float station 22, or take a weight measurement at the time of installation.

END

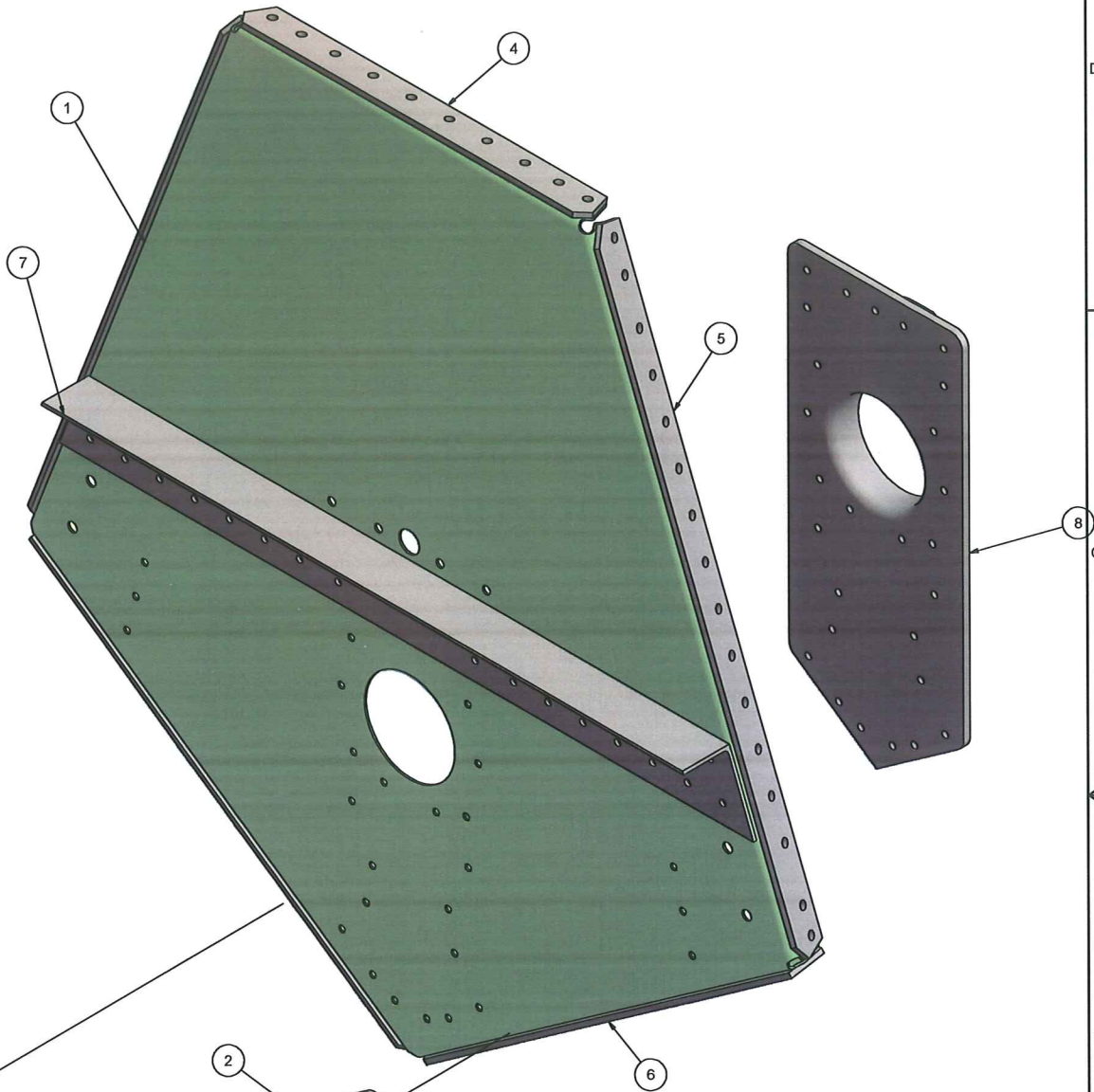
REVISION HISTORY					DESCRIPTION
REV	DATE	ECO	DR		
A	4-OCT-11	22530	DKS		INITIAL RELEASE
B	12/7/11	22619	DKS		REMOVED DOUBLER ADDED ANGLES (ITEMS 2, 3)



VIEW LOOKING AFT
FWD FACE OF HULL STATION 22
MODEL 10000 FLOAT



PARTIAL ASSEMBLY
ISOMETRIC VIEW
HULL STATION 22
MODEL 10000 FLOAT



EXPLODED VIEW
PARTIAL ASSEMBLY
ANGLE P/N 1005621 AND 1005622 INSTALLATION
HULL STATION 22
MODEL 10000 FLOAT

NOTES:

- THIS DRAWING IS ASSOCIATED WITH WIPAIRE SERVICE LETTER NUMBER 126 AND SERVICE KIT 82. REFER TO THE SERVICE LETTER AND MAINTENANCE DOCUMENTS LISTED IN THAT LETTER FOR GENERAL MAINTENANCE INSTRUCTIONS NOT INCLUDED IN THIS DRAWING.
- THIS DRAWING SPECIFIED MODIFICATION OF THE STATION 22 STERN BULKHEAD ON WIPAIRE MODEL 10000 FLOAT.
- THE PURPOSE OF THIS MODIFICATION IS TO REINFORCE THE STERN BULKHEAD TO HELP PREVENT CRACKING DUE TO WATER RUDDER LOADS.
- STERN BULKHEAD ANGLE P/N 1005621 AND 1005622 ARE INSTALLED ON BOTH THE PORT AND STARBOARD FLOAT. INSTALLATION OF THE ANGLES IS OPTIONAL FOR ALL HULLS S/N 10118 AND PRIOR. ALL HULLS AFTER S/N 10119 HAVE THIS MODIFICATION INCORPORATED FROM THE FACTORY.
- TO INSTALL ANGLE P/N 1005621 AND 1005622, PERFORM THE FOLLOWING OPERATIONS:
 - UNSEAL AND REMOVE THE AFT-MOST TOP DECK COVER TO GAIN ACCESS TO THE FORWARD SIDE OF THE STA. 22 BULKHEAD.
 - REMOVE WATER RUDDER ASSEMBLY FROM WATER RUDDER POST. SECURE RETRACTION AND STEERING CABLES.
 - BRIEFLY POSITION ANGLE P/N 1005621 AND 1005622 ON THE FORWARD SIDE OF THE STA. 22 BULKHEAD. IDENTIFY AND DRILL ALL INTERFERING RIVETS (6 PLACES) IN THE STERN BULKHEAD. THESE RIVETS WILL BE MATCH DRILLED TO THE ANGLES.
 - WITH HOLES IN THE ANGLES AND HULL, POSITION AND CLECO ANGLES IN PLACE.
 - WITH ANGLES SECURED WITH CLECOS, DRILL BULKHEAD AND ANGLES FOR #4 DIA. RIVETS, 16 PLACES.
 - DRILL BOTTOM SKIN AND ANGLES FOR #5 DIA. RIVETS, 18 PLACES.
 - REMOVE ANGLES AND DEBURR ALL RIVET HOLES.
 - INSTALL ANGLES WET WITH SEALANT, DRIVE ALL RIVETS WET. RIVETS FROM BULKHEAD TO ANGLES SHALL BE MS20370AD4. RIVETS FROM ANGLES TO BOTTOM SKIN SHALL BE MS20470AD5. ALL RIVET LENGTHS AS REQUIRED. RECOMMENDED LENGTHS LISTED IN SERVICE KIT 82.
 - AFTER SEALANT HAS CURED, REINSTALL WATER RUDDER AND RETRACT/STEERING CONNECTIONS.
 - PERFORM OPERATIONAL CHECK OF RETRACT AND STEERING SYSTEM.
 - REINSTALL STERN TOP DECK COVER WITH FRESH SEALANT.
- SEE SL 126 FOR LOGBOOK ENTRY REQUIREMENTS.

Parts List					
ITEM	QTY	PART NUMBER	DESCRIPTION		
1	1	1002680	BULKHEAD, PANEL, #22		
2	1	1005621	ANGLE, STIFFENER, WATER RUDDER, PIVOT		
3	1	1005622	ANGLE, STIFFENER, WATER RUDDER, PIVOT		
4	1	10A01156-171	SPACER, #22, TOP		
5	2	10A01156-172	SPACER, #22, SIDE		
6	2	10A01156-173	SPACER, #22, BOTTOM		
7	1	10A01352-044	ANGLE - STIFFENER - BULKHEAD # 22		
8	1	3A01437-001	ASSEMBLY, MOUNT, PIVOT, WATER RUDDER		
MATERIAL			SEE PARTS LIST		
FINISH			N/A		
			WIPAIRE, INC. 1700 HENRY AVE. SOUTH ST. PAUL, MN 55075 (651) 451-1205		
			TITLE ASSEMBLY, BULKHEAD, #22, MODIFICATION		
ALL DIMS IN INCHES & AFTER FINISH		THIRD ANGLE PROJECTION	TOLERANCES .X= ± .05 .XX= ± .015 .XXX= ± .005 X= ± .5	SIZE D 1:2 Sheet 1 of 1	PART NO. 1005529
					REV B