



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

SERVICE LETTER 271

INSTALL BALLAST ON AT-802A (SINGLE SEAT ONLY)

Aircraft Makes/Model(s):	Float Model(s):	Compliance: Optional	By: MAS
Air Tractor	10000A	Part Number: 1012832	Approved: DRH
AT-802A (Single Seat Only)		Date: 4/16/2025	Revision: A

LOG OF REVISIONS

Revision	Description	Date
A	Initial release	4/16/2025

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 Wipline model 10000A amphibian floats installed on Air Tractor AT-802A (single seat) aircraft. Ballast assemblies are standard on Air Tractor AT-802 (dual seat) aircraft.

COMPLIANCE:

Compliance is optional.

BACKGROUND:

Varying fire gate models and other airframe modifications may make it desirable to add a ballast at a forward location. This service letter applies the forward-most ballast installation - standard for dual seat aircraft - to the single-seat AT-802A, along with some adjustments and considerations specific to the single-seat.

COMPLIANCE METHOD:

Apply minor rework to float structure and install parts as shown in the Work Instructions section of this service letter.

APPROXIMATE SHOP HOURS:

Performing the work instructions will take approximately 4 labor hours per float set to complete.

WARRANTY INFORMATION:

This service letter does not include warranty for labor or parts.

TECHNICAL DATA:

Copies of this service letter, associated service kit (if applicable), float service manual, and float parts manual are available at www.wipaire.com.

1700 Henry Ave - Fleming Field (KSGS), South St. Paul, MN 55075

Phone: 651.451.1205 | Fax: 651.457.7858

www.wipaire.com

Note: Given that the required CG shift for a single-seat aircraft is likely to be relatively small, this service letter describes the build-up of ballast assemblies in a way that allows flexible configuration. If preferred, complete pre-assembled ballast holders (Table 1, Items 1-11) with all ballast plates shown in Table 2 can be ordered as part number 1012703. In this case, remove placard from top cover which references "dual seat occupancy." Note that when the 13 lb ballast is installed, 1012696 must be secured with retaining rod (Item 6) and two spring pins (Item 7); drill the smaller retaining rod hole to Ø0.125" to accept the second spring pin. The ballast assemblies are to be considered fixed ballast and be included with the aircraft empty weight and balance.

ITEMS PROVIDED IN SERVICE KIT 1012832-01 (1 KIT PER FLOAT)			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1003326	BALLAST - BACK RIB
2	4	1003328	BALLAST RIB
3	1	1003329	ACCESS COVER, BALLAST
4	1	1003330	TOP COVER, BALLAST
5	1	13A01567-010	COVER SEAL, 13.69" X 17.16"
6*	1	1003327	RETAINING ROD, BALLAST
7*	2	NAS561P4-12	SPRING PIN, SLOTTED, .125DIA, .750LG
8	15	AN526-832R12	SCREW, TRUSS HEAD, 8-32, 3/4" LG
9	4	1012700	SPACER, BALLAST RIB
10	1	1012701	SPACER, BALLAST RIB, BACK
11	16	MS51959-45	SCREW, MACHINE, 82 DEG CSINK, 8-32
12	8	1011977	ASSEMBLY, NUT PLATES
13	4	MS21047L3	NUT PLATE, FIXED, STEEL, PLAIN, 10-32
14	6	MS24694S56	SCREW, COUNTERSINK, 100DEG
15	14	MS27039-1-15	SCREW, PAN HEAD, 10-32 THREAD

*These items only needed if using 13 lb ballast (1012696). Parts may be ordered individually.

Table 1 – Ballast Holder and Installation Parts

PLATE PART NUMBERS, ORDER AS NEEDED			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	A/R	1012697	FIXED BALLAST, .75", STEEL (~33LB)
2	A/R	1012699	FIXED BALLAST, 1-1/2", STEEL (~66LB)
3	A/R	1012696	BALLAST, STEEL, 13 LB (EACH ASSEMBLY CAN HOLD 3)

Table 2 – Standard Ballast Plates

CONFIGURATION TABLE (FOR HARDWARE KITS)	
CONFIGURATION KIT NUMBER	DESCRIPTION
1012832-02	3/4" FIXED (THIN FIXED PLATE ONLY)
1012832-04	1-1/2" FIXED (THICK FIXED PLATE ONLY)
1012832-05	2-1/4" FIXED (COMBINED THIN+THICK FIXED PLATES)

Table 3 – Configuration Table for Hardware Kits

FIXED PLATE HARDWARE KITS (QTYS = PER BALLAST ASSEMBLY)					
ITEM	KIT-02	KIT-04	KIT-05	PART NUMBER	DESCRIPTION
1	16	16	16	AN970-3	WASHER, FLAT, LARGE AREA, #10
2	8	N/A	N/A	AN3-10A	BOLT, UNDRILLED, 10-32, 1-1/32" LG, 5/8" GRIP
3	8	N/A	N/A	AN3-13A	BOLT, UNDRILLED, 10-32, 1-13/32" LG, 1" GRIP
4	N/A	8	N/A	AN3-16A	BOLT, UNDRILLED, 10-32, 1-25/32" LG, 1-3/8" GRIP
5	N/A	8	N/A	AN3-21A	BOLT, UNDRILLED, 10-32, 2-5/32" LG, 1-3/4" GRIP
6	N/A	N/A	8	AN3-24A	BOLT, UNDRILLED, 10-32, 2-17/32" LG, 2-1/8" GRIP
7	N/A	N/A	8	AN3-27A	BOLT, UNDRILLED, 10-32, 2-29/32" LG, 2-1/2" GRIP

Table 4 – Hardware Kits (For Standard Ballast Configurations)

Work Instructions

Note: Ballast may be installed in a single float as means of countering left-right aircraft imbalance, such as when a foam tank is installed in only one float.

1. Assemble ballast holder(s) as shown in Figure 1. Retaining rod and spring pins (Table 1, Items 6 and 7) may be omitted if 13 lb plates (1012696) are not used, otherwise wait to configure weights in step 2 before installing second spring pin. Apply high strength threadlocker (red Loctite, or equivalent) to all fasteners.
2. Configure weights and hardware as desired. See Figure 2. Custom fixed weights may be locally fabricated or created by modifying Wipaire plates and are to be secured, centered, below the holder assembly using same fastener specs (AN3, AN970) and scheme, picking up as many bolt locations as is feasible. Refer to hardware table. Note that longer bolts are used at two center rows, where they fasten into ribs. Apply high strength threadlocker (red Loctite, or equivalent) to all fasteners.
3. Prepare float structure and install ballast. See Figure 3. Note that the paired nutplate strips (Table 1, Item 12) would conflict with internal float structure at the indicated areas. Install individual nutplates in those locations.

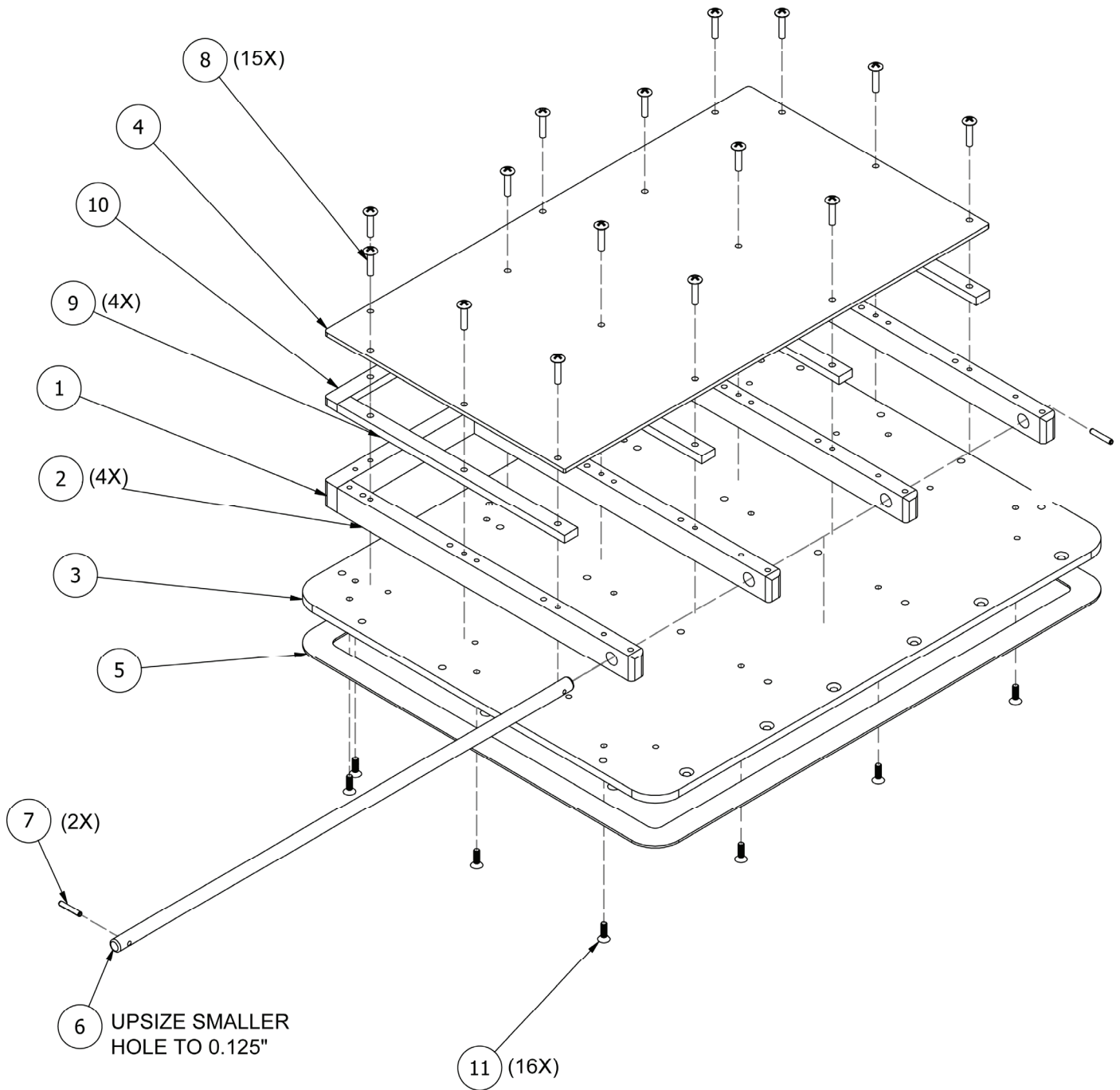


Figure 1 – Assemble Ballast Holder(s)

(Item numbers correspond to Table 1.)

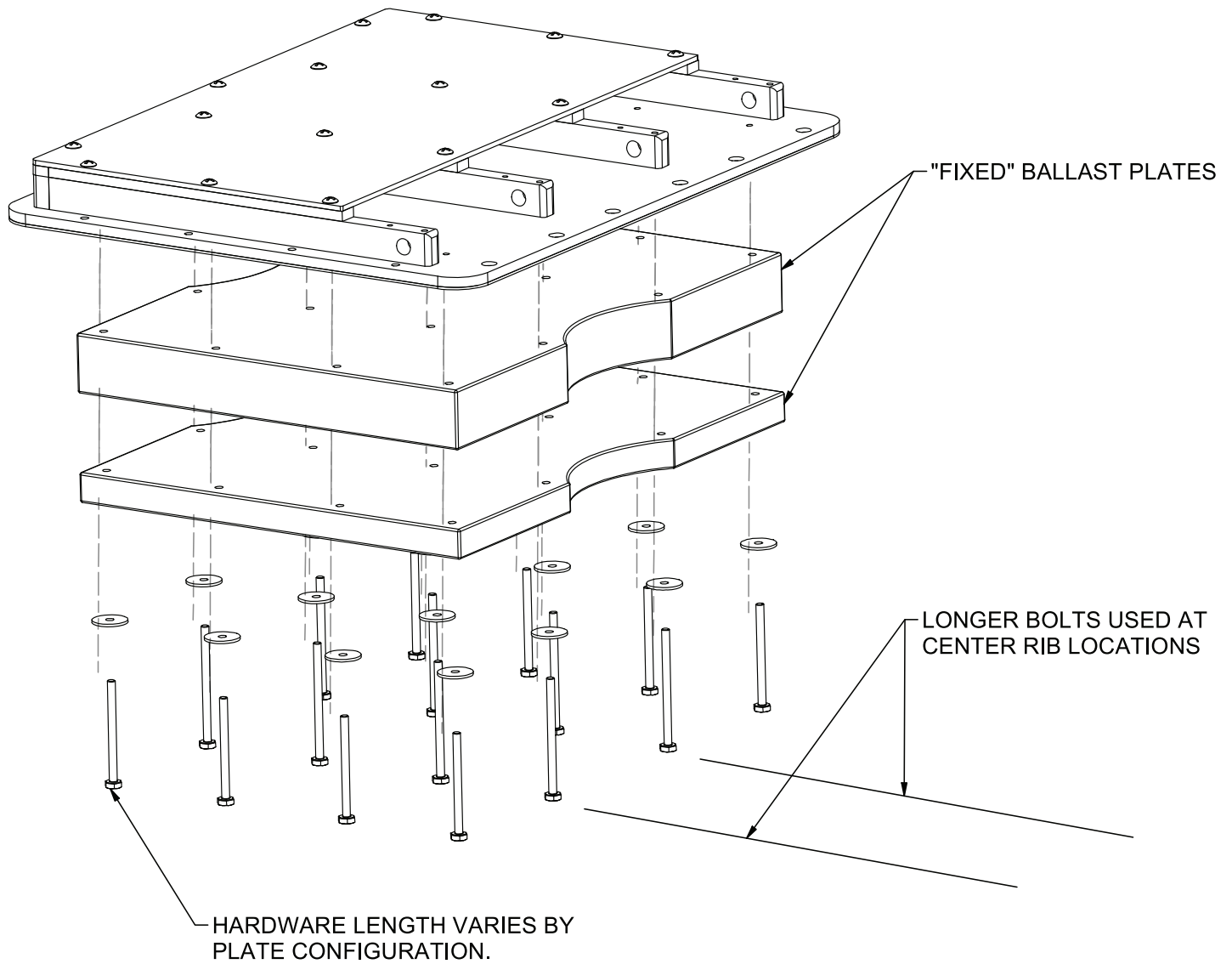
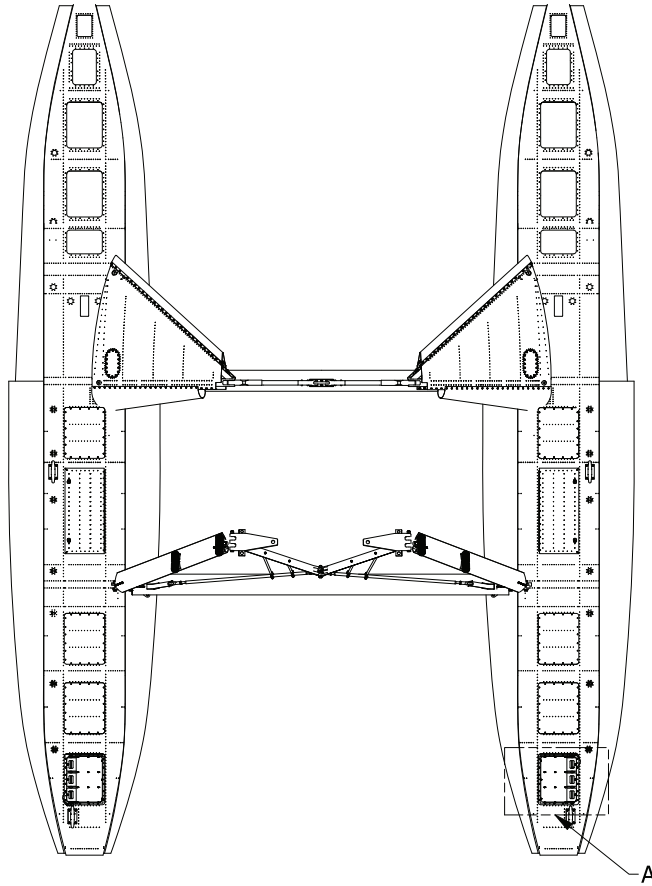
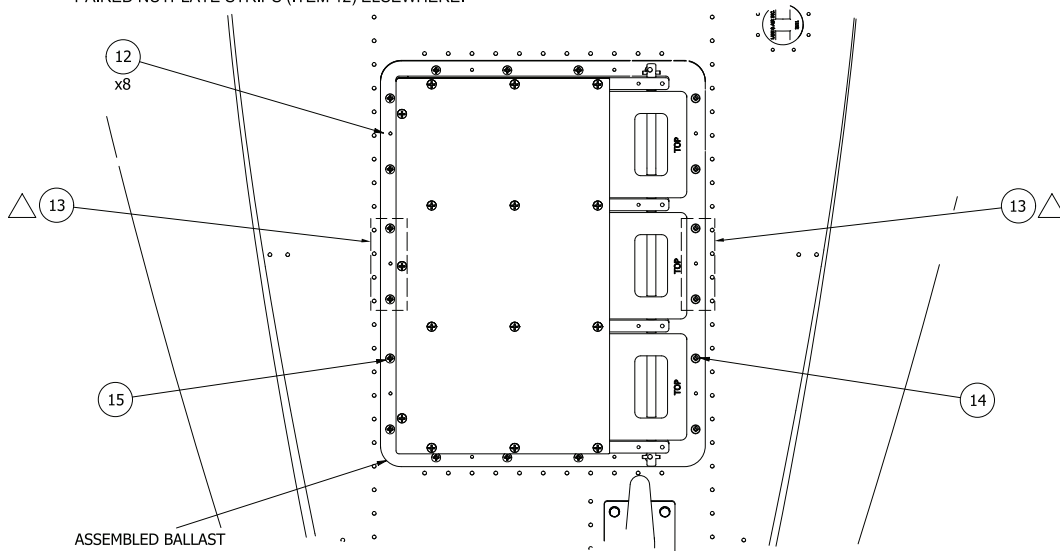


Figure 2 – Configure Ballast Plates and Hardware



△ REMOVE TINNEMAN CLIPS. INSTALL INDIVIDUAL NUTPLATES WHERE STRIPS WOULD CONFLICT WITH FLOAT STRUCTURE (BOXED AREAS). USE PAIRED NUTPLATE STRIPS (ITEM 12) ELSEWHERE.



DETAIL A

Figure 3 – Ballast Installation
(Item numbers correspond to Table 1)



WEIGHT AND BALANCE			
ITEM	WEIGHT (LB)*	ARM (IN)**	MOMENT (IN*LB)
BALLAST ASSEMBLY (HOLDER ONLY, NO PLATES)	12	-92	-1104
13 LB PLATE 1012696 (QTY 1)	13	-92	-1196
THIN FIXED PLATE 1012697	33	-92	-3036
THICK FIXED PLATE 1012699	66	-92	-6072

* Reference only. Verify weight independently

** Datum = leading edge. Assumes plates are centered on ballast holder assembly.

Aircraft Closing & Return to Service

1. Recalculate aircraft weight and balance.
2. Upon completion of inspection, enter information in Aircraft Logbook for completion of Wipaire Service Letter 271.