



Wipaire Worldwide
Anywhere, Anytime

SERVICE LETTER: #67

DATE: August 30, 2004.

SUBJECT: Model 2100 and 2350 weight revision.

EFFECTIVITY: All Model 2100 and 2350 floats per attached chart.

COMPLIANCE REQUIRED: As deemed necessary by aircraft owner or operator or airworthiness inspector.

METHOD OF COMPLIANCE: Recalculate weight and balance per attached data or weigh aircraft.

PARTS REQUIRED: None.

REASON: It has come to our attention that aircraft equipped with our Model 2100/2350 series floats have calculated weight and balance certificates that do not agree with actual weighed values. In some cases the basic aircraft is heavier than stated, although an investigation into the matter indicated that in most cases the float installation weight was also higher than published. This increased weight, over the prototype set, is attributed to 14 improvements or reinforcements implemented over the years, as well as the option of polyurethane paint and silica non-skid top surface, also which the prototype set did not have. The poly paint and nonskid weigh an additional 10.5 pounds more than the original silver lacquer, and the 14 improvements weigh 15.25 pounds, which mean your floats could weigh as much as 25.75 additional pounds. Optional replaceable keel strips weigh four more pounds. For those interested, a list of those items is on the last page of this letter.

Depending on the type of aircraft the floats are installed on, you will need to revise the weight and balance according to the following data; or re-weigh your aircraft.

REVISED WEIGHT AND BALANCE
FOR
PIPER PA-18 ON 2100 AMPHIBS

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	386.17	70.86	27366
Fuselage Hydraulic Kit w/oil	18.80	93.62	1760
Heavy-duty Keel	3.80	39.00	148
Urethane Paint/Silica-based Non-skid	10.50	70.00	735
Clamp-on Wipaire Rear Fittings	2.50	105.00	262
Atlee Dodge Rear Fittings	.66	105.00	69
Boarding Step Right	3.60	76.00	273
Fueling Step Left	1.75	66.00	115
Canoe Paddle	2.00	66.00	132

REVISED WEIGHT AND BALANCE
FOR
PIPER PA-18 ON 2100 SEAPLANE

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	257.55	72.85	18762
Heavy-duty Keel	3.80	39.00	148
Urethane Paint/Silica-based Non-skid	10.50	70.00	735
Clamp-on Wipaire Rear Fittings	2.50	105.00	262
Atlee Dodge Rear Fittings	.66	105.00	69
Boarding Step Right	3.60	76.00	273
Fueling Step Left	1.75	66.00	115
Canoe Paddle	2.00	66.00	132

REVISED WEIGHT AND BALANCE
FOR
HUSKY ON 2100 AMPHIBS

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	386.00	69.13	26684
Fuselage Hydraulic Kit Side Mount w/oil	17.30	124.97	2162
Fuselage Hydraulic Kit Extended Baggage, w/oil	18.50	111.35	2060
Heavy-duty Keel	3.80	39.00	148
Urethane Paint/Silica-based Non-skid	10.50	70.00	735
Boarding Step Right	3.60	76.00	273
Fueling Step Left	1.75	66.00	115
Canoe Paddle	2.00	66.00	132
Auxiliary Fin (Husky)	4.00	245.0	980

REVISED WEIGHT AND BALANCE
FOR
HUSKY ON 2100 SEAPLANE

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	257.55	71.80	18492
Heavy-duty Keel	3.80	39.00	148
Urethane Paint/Silica-based Non-skid	10.50	70.00	735
Boarding Step Right	3.60	76.00	273
Fueling Step Left	1.75	66.00	115
Canoe Paddle	2.00	66.00	132
Auxiliary Fin	4.00	245.00	980

REVISED WEIGHT AND BALANCE
FOR
PIPER PA-12 ON 2100 AMPHIB

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	386.17	10.86	4194
Fuselage Hydraulic Kit w/ oil	18.80	33.62	632
Heavy-duty Keel	3.80	-21.00	-80
Urethane Paint/Silica-based Non-skid	10.50	10.00	105
Clamp-on Wipaire Rear Fittings	2.50	45.00	112
Atlee Dodge Rear Fittings	.66	45.00	30
Boarding Step Right	3.60	16.00	57
Fueling Step Left	1.75	6.00	10
Canoe Paddle	2.00	6.00	12

REVISED WEIGHT AND BALANCE
FOR
PIPER PA-12 ON 2100 SEAPLANE

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	253.35	12.85	3255
Heavy-duty Keel	3.80	-21.00	-80
Urethane Paint/Silica-based Non-skid	10.50	10.00	105
Clamp-on Wipaire Rear Fittings	2.50	45.00	112
Atlee Dodge Rear Fittings	.66	45.00	30
Boarding Step Right	3.60	16.00	57
Fueling Step Left	1.75	6.00	12
Canoe Paddle	2.00	6.00	12

REVISED WEIGHT AND BALANCE
FOR
8GCBC SCOUT ON 2100 AMPHIB

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	392.70	6.71	2636
Fuselage Hydraulic Kit w/ oil	17.30	65.20	1128
Heavy-duty Keel	3.80	-15.00	-57
Urethane Paint/Silica-based Non-skid	10.50	10.00	105
Boarding Step Right	3.60	18.55	67
Fueling Step Left	1.75	4.00	7
Canoe Paddle	2.00	4.00	8
Ventral Fins (4)	6.00	165.00	990

REVISED WEIGHT AND BALANCE
FOR
8GCBC SCOUT ON 2100 SEAPLANE

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	265.55	12.00	3186
Heavy-duty Keel	3.80	-15.00	-57
Urethane Paint/Silica-based Non-skid	10.50	10.00	105
Boarding Step Right	3.60	18.55	67
Fueling Step Left	1.75	4.00	7
Canoe Paddle	2.00	4.00	8
Auxiliary Fins (4)	6.00	165.00	990

REVISED WEIGHT AND BALANCE
FOR
CESSNA 172 ON 2100 AMPHIB

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	394.70	35.98	14201
Fuselage Hydraulic Kit w/ oil	16.30	6.69	109
Heavy-duty Keel	3.80	3.00	11
Urethane Paint/Silica-based Non-skid	10.50	30.00	315
Boarding Step Right	2.00	32.00	64
Fueling Step Left	2.00	32.00	64
Canoe Paddle	2.00	32.00	64
Ventral Fin	2.00	210.00	420

REVISED WEIGHT AND BALANCE
FOR
CESSNA 172 ON 2100 SEAPLANE

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	266.87	38.00	10141
Heavy-duty Keel	3.80	3.00	11
Urethane Paint/Silica-based Non-skid	10.50	30.00	315
Boarding Step Right	2.00	32.00	64
Boarding Step Left	2.00	32.00	64
Canoe Paddle	2.00	32.00	64
Ventral Fin	2.00	210.00	420

REVISED WEIGHT AND BALANCE
FOR
CESSNA MODEL 172 ON 2350 AMPHIB

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	415.70	35.88	14915
Fuselage Hydraulic Kit w/ oil	16.30	6.69	109
Heavy-duty Keel	3.80	3.00	11
Urethane Paint/Silica-based Non-skid	10.50	30.00	315
Boarding Step Right	2.00	32.00	64
Boarding Step Left	2.00	32.00	64
Canoe Paddle	2.00	32.00	64
Ventral Fin	2.00	210.00	420

REVISED WEIGHT AND BALANCE
FOR
CESSNA MODEL 172 ON 2350 SEAPLANE

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation Complete (Not including below items.)	287.24	36.66	10532
Heavy-duty Keel	3.80	3.00	11
Urethane Paint/Silica-based Non-skid	10.50	30.00	315
Boarding Step Right	2.00	32.00	64
Boarding Step Left	2.00	32.00	64
Canoe Paddle	2.00	32.00	64
Ventral Fin	2.00	210.00	420

REVISED WEIGHT AND BALANCE
FOR
MAULE MX-7-180 ON 2350 AMPHIB

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	407.70	9.47	3862
Fuselage Hydraulic Kit w/ oil	17.30	82.02	1419
Heavy-duty Keel	3.80	-17.00	-65
Urethane Paint/Silica-based Non-skid	10.50	0	0
Boarding Step Right	3.00	3.00	9
Boarding Step Left	3.00	3.00	9
Canoe Paddle	2.00	3.00	6
Ventral Fin	5.00	175.00	875

REVISED WEIGHT AND BALANCE
FOR
MAULE MX-7-180 ON 2350 SEAPLANE

<u>ITEM</u>	<u>WT</u>	<u>ARM</u>	<u>MOM</u>
Float Installation (Not including below items.)	278.92	11.39	3177
Heavy-duty Keel	3.80	-17.00	-65
Urethane Paint/Silica-based Non-skid	10.50	0	0
Boarding Step Right	3.00	3.00	9
Boarding Step Left	3.00	3.00	9
Canoe Paddle	2.00	3.00	6
Ventral Fin	5.00	175.00	875

The changes in weight are summarized as follows and are the result of service letters and design improvements over the years.

	<u>Weight</u>	<u>Change</u>
Enhanced main gear drag link.	+	.25
Enhanced main gear drag link bushings.	+	.32
Main gear grease inserts.	+	.40
Aluminum nose wheels.	+	1.50
Solid nose gear trolley axels.	+	.50
Nose gear tow lugs.	+	.30
Shock strut bushings.	+	.19
Spray shields.	+	.75
Mud flaps – main gear wheel well.	+	.63
Wheel well debris ramps.	+	.65
Heavy-duty foamed booster.	+	4.20
Second coat of interior primer.	+	1.20
Seal bulkheads two sides (instead of one).	+	2.00
Heavy-duty baggage cover and sealing lip.	+	2.35
Total		15.24