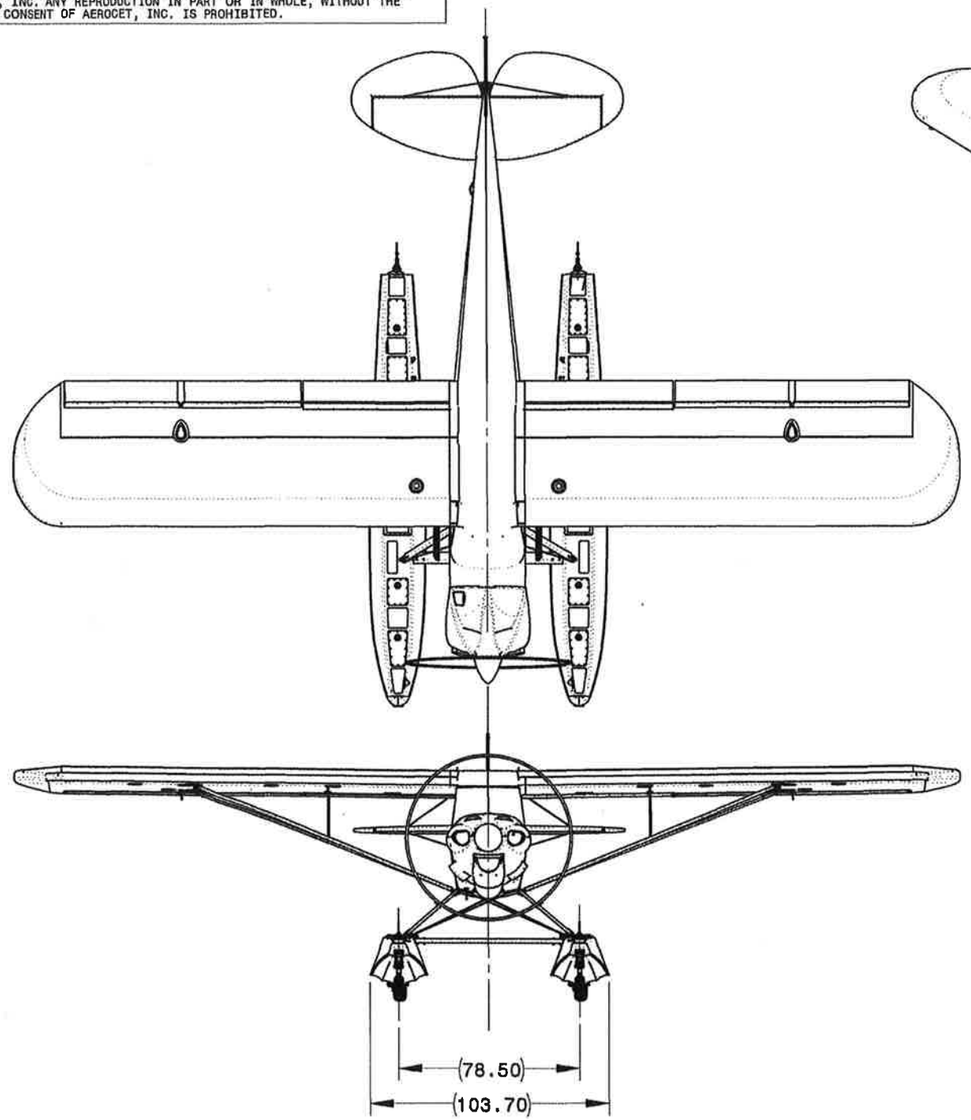
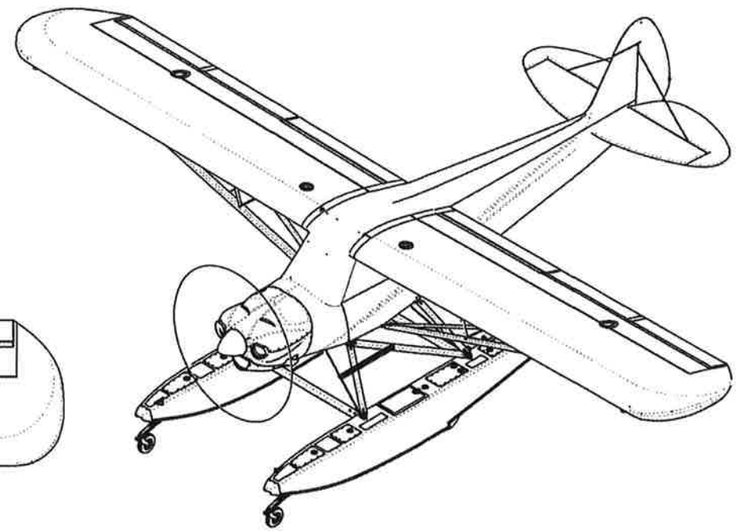
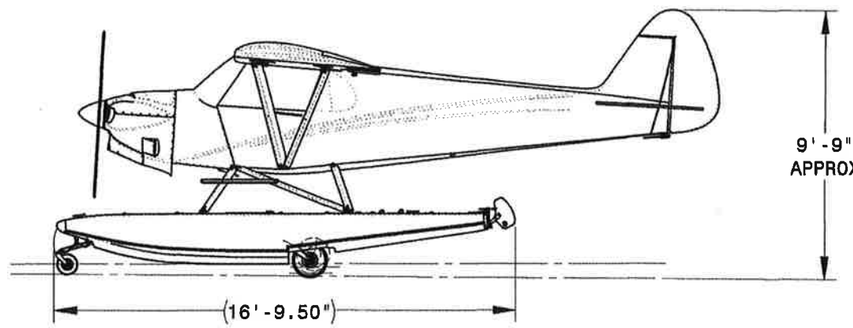
REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	RB	4/30/14	

Experimental Only







TOP LEVEL INSTALLATION ASSEMBLIES				
ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION
1	1	ASSY	15-15100	STRUT INSTALLATION
2	1	ASSY	15-15200	WATER RUDDER RIGGING
3	1	ASSY	15-15400	ELECTRIC & HYDRAULIC INSTALLATION
4	1	ASSY	15-15300	BOARDING STEP INSTALLATION

NOTES:

1) THIS IS THE TOP LEVEL INSTALLATION DRAWING FOR AEROCET MODEL 1500 AMPHIBIOUS FLOATS TO CUB CRAFTERS CC11 EXPERIMENTAL LIGHT SPORT AIRCRAFT, (ELSA).

2) INSTALLATION IS SUBJECT TO LIMITATIONS AND CONDITIONS LISTED IN SUPPLEMENTAL AIRPLANE FLIGHT MANUAL (SAFM).

NOTES: (CONT'D)

3) FLOATS ARE ASSEMBLED PER AEROCET DRAWING 15-20010. LOCATE AND SORT PARTS AND HARDWARE FOR USE.

4) HOIST AIRCRAFT ACCORDING CUB CRAFTERS' INSTRUCTIONS ASSURING PROPER SAFETY MEASURES, AND REMOVE LANDING GEAR.

5) INSTALL THE FLOAT ASSEMBLY TO THE AIRCRAFT USING DRAWINGS LISTED IN TABLE.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ±1/32 | DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 | ANGLES ±1°
RADII ±.032
SURFACE N/A
FINISH N/A
USED ON ASSEMBLY 15-15000 MDL

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN RB	4/25/14
CHECKED	
APPROVED	4/30/14

AEROCET INCORPORATED
Priest River, Idaho

AEROCET MODEL 1500 AMPHIBIOUS FLOAT INSTALLATION, CUB CRAFTERS CC11 AIRCRAFT

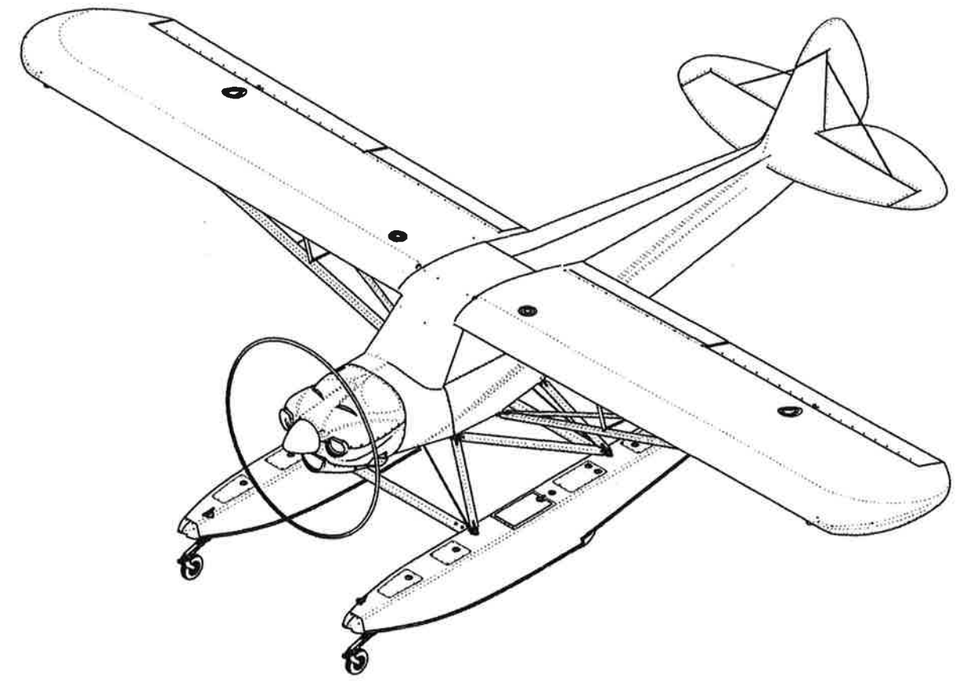
SIZE B | DWG. NO. 15-15010 | REV. I/R
SCALE 1:64 | CAD FILE: 15\15-15010 | SHEET 1 OF 1

REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	RB	4/16/14	

1) SHOWING BILL OF MATERIALS AND OVERVIEW

PARTS LIST FOR 15-15100 STRUT INSTALLATION

ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION	ALTERNATES COMMENTS
1	1	ASSY	15-15120-L	STRUT ASSEMBLY, FWD, LHS	
2	1	ASSY	15-15120-R	STRUT ASSEMBLY, FWD, RHS	
3	2	PART	15-15121	DECK FITTING, FWD	
4	2	PART	15-15124	FUSELAGE FITTING, FWD	
5	1	ASSY	15-15130-L	STRUT ASSEMBLY, AFT	
6	1	ASSY	15-15130-R	STRUT ASSEMBLY, AFT	
7	2	PART	15-15131	DECK FITTING, AFT	
8	1	ASSY	15-15140	STRUT ASSEMBLY, DIAGONAL	
9	1	ASSY	15-15140	STRUT ASSEMBLY, DIAGONAL	
10	2	PART	15-15176	FITTING, FWD TIE ROD ATTACHMENT	
11	2	ASSY	15-15190-1	TIE ROD ASSEMBLY (1/4-28 ROUND; 48.625 LENGTH)	-2 ACCEPTABLE
12	2	ASSY	15-15194-1	TIE ROD ASSEMBLY (1/4-28 ROUND; 45.875 LENGTH)	-2 ACCEPTABLE
13	1	ASSY	15-20010	TSO ASSEMBLY, AEROCET MODEL 1500 FLOATS	
14	4	PART	15-21101	DECK LUG	
15	2	PART	15-21105-1	TIE ROD ATTACHMENT, LOWER, 23 DEG.	
16	2	PART	15-21105-2	TIE ROD ATTACHMENT, LOWER, 26 DEG.	
17	4	HRDWR	AN4-15A	BOLT - MACHINE, AIRCRAFT	
18	4	HRDWR	AN5-15A	BOLT - MACHINE, AIRCRAFT	
19	2	HRDWR	AN5-23A 22A	BOLT - MACHINE, AIRCRAFT	
20	4	HRDWR	AN5-31A	BOLT - MACHINE, AIRCRAFT	
21	4	HRDWR	AN5-32A	BOLT - MACHINE, AIRCRAFT	
22	4	HRDWR	AN6-16A	BOLT - MACHINE, AIRCRAFT	
23	4	HRDWR	AN6-25A	BOLT - MACHINE, AIRCRAFT	
24	2	HRDWR	AN6-33A	BOLT - MACHINE, AIRCRAFT	
25	10	HRDWR	MS21044N5	NUT, SELF-LOCKING, REGULAR HEIGHT	
26	2	HRDWR	MS21044N6	NUT, SELF-LOCKING, REGULAR HEIGHT	
27	4	HRDWR	MS21083N4	NUT, SELF-LOCKING, LOW HEIGHT	
28	4	HRDWR	MS21083N5	NUT, SELF-LOCKING, LOW HEIGHT	
29	8	HRDWR	MS21083N6	NUT, SELF LOCKING, LOW HEIGHT	
30	3	HRDWR	NAS1149C0532R	WASHER, FLAT, STAINLESS	
31	2	HRDWR	NAS1149C0563R	WASHER, FLAT, STAINLESS	
32	2	HRDWR	NAS1149C0616R	WASHER, FLAT, STAINLESS	
33	6	HRDWR	NAS1149C0632R	WASHER, FLAT, STAINLESS	
34	2	HRDWR	NAS1149C0663R	WASHER, FLAT, STAINLESS	
35	4	HRDWR	NAS1149D0416K	WASHER, FLAT	
36	4	HRDWR	NAS1149D0463K	WASHER, FLAT	
37	12	HRDWR	NAS1149D0516K	WASHER, FLAT	
38	12	HRDWR	NAS1149D0563K	WASHER, FLAT	
39	8	HRDWR	NAS1149D0616K	WASHER, FLAT	
40	8	HRDWR	NAS1149D0663K	WASHER, FLAT	



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS N/A | DECIMALS N/A | ANGLES N/A
RADII N/A
SURFACE N/A
FINISH N/A
USED ON ASSEMBLY 15-15010

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN RB	2/25/13
CHECKED	
APPROVED	4/16/14

AEROCET INCORPORATED
Priest River, Idaho

STRUT INSTALLATION, AEROCET MODEL 1500 FLOATS, CC11 AIRCAFT

SIZE B | DWG. NO. 15-15100 | REV. I/R
SCALE 1:48 | CAD FILE: 15\15-15100 | SHEET 1 OF 5

2) SHOWING DECK LUG AND LOWER TIE ROD ATTACHMENT INSTALLATION

NOTES:

1) PREPARE AND ASSEMBLE FLOAT PAIR PER DRAWING NUMBER 15-20010.

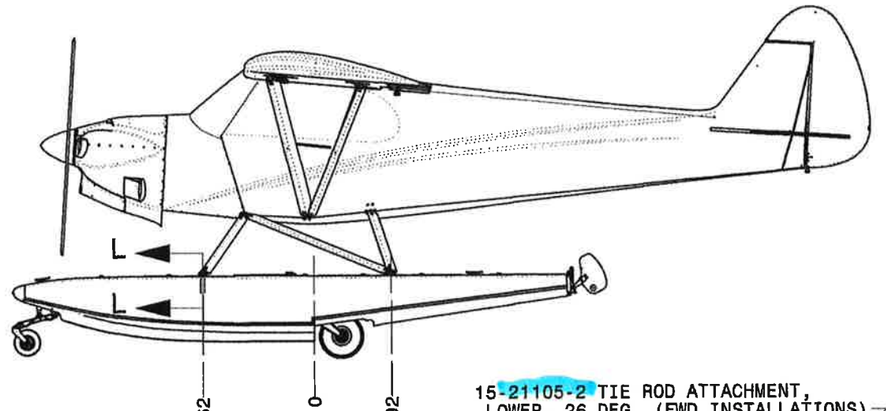
2) INSTALLATION OF AEROCET MODEL 1500 FLOATS REQUIRES THE AIRCRAFT INCLUDE FLOAT FITTING INSTALLED ACCORDING TO CUB CRAFTERS DRAWING NUMBER SC45000.

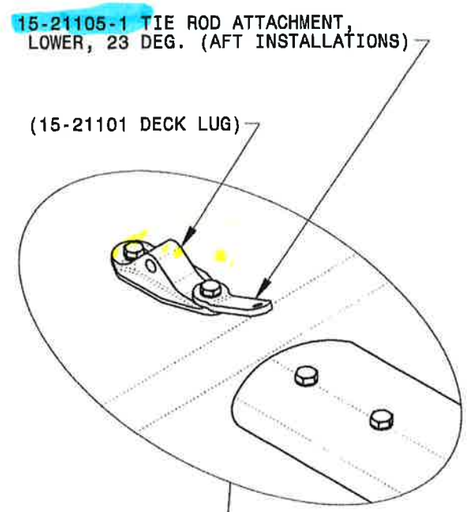
3) SUPPORT AIRCRAFT AND REMOVE LANDING GEAR ACCORDING TO AIRCRAFT MAINTENANCE MANUAL. (RECOMMEND USING LIFTING EYES ON THE TOP OF THE AIRCRAFT FUSELAGE.)

4) INSTALL DECK LUGS AND LOWER TIE ROD ATTACHMENTS AS SHOWN ON SHEET 2. ALIGN THE TIE ROD ATTACHMENTS TO OPPOSITE UPPER ATTACHMENTS TO EASE ADJUSTMENT OF THE TIE RODS LATER.

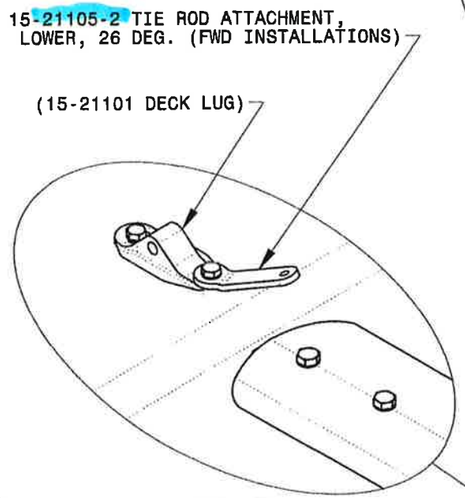
5) IN GENERAL, AEROCET RECOMMENDS APPLICATION OF CORROSION INHIBITING COMPOUNDS TO FASTENERS AS THEY ARE INSTALLED. RECOMMENDED PRODUCTS INCLUDE EZ TURN LUBRICANT, ACF-50, AND ANTI-SIEZE (ESPECIALLY ON STAINLESS THREADS).

6) FASTENER TORQUE VALUE PER AC43.13-1 UNLESS OTHERWISE NOTED.

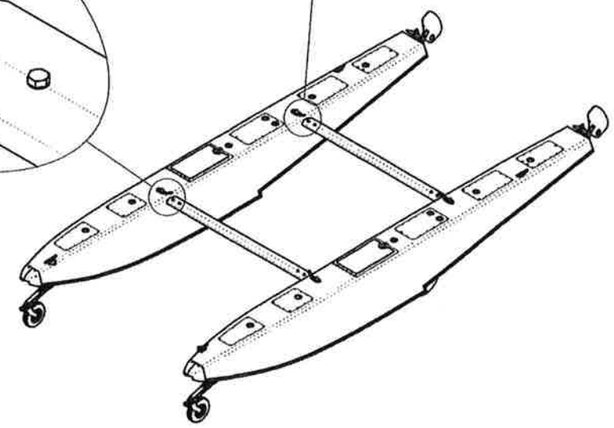




DETAIL F
SCALE 1 : 4



DETAIL E
SCALE 1 : 4



SECTION L-L
SCALE 1 : 4

SHOWING TYPICAL INSTALLATION OF 15-21101 DECK LUGS LOCATIONS AT FLOAT STATIONS -37.862 AND 26.292

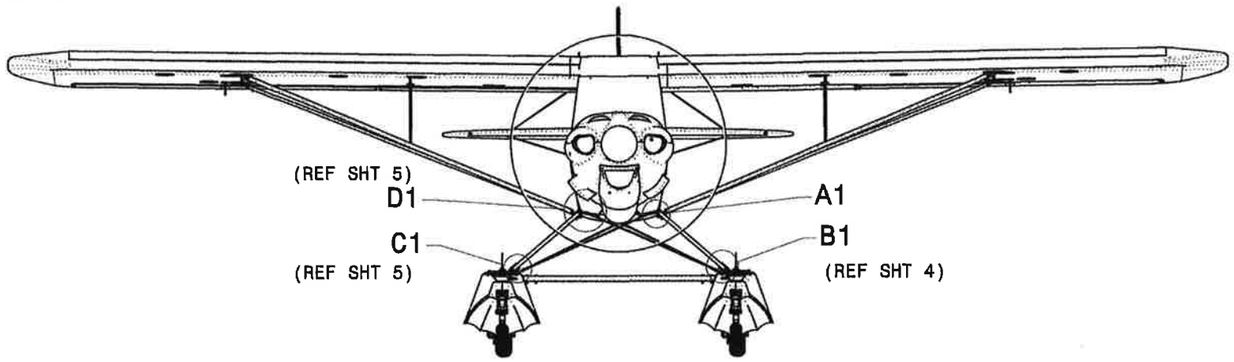
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	
TOLERANCES ARE:		APPROVALS	DATE
FRACTIONS N/A / DECIMALS N/A / ANGLES N/A		DRAWN RB	2/26/13
RADII N/A		CHECKED	
SURFACE N/A		APPROVED	4/16/14
FINISH N/A		REV APPV'L N/A	N/A
USED ON ASSEMBLY 15-15010			

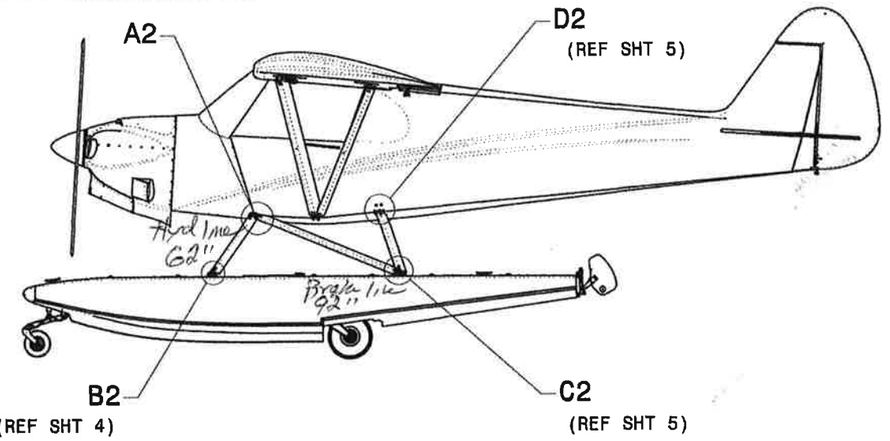
AEROCET INCORPORATED
Priest River, Idaho

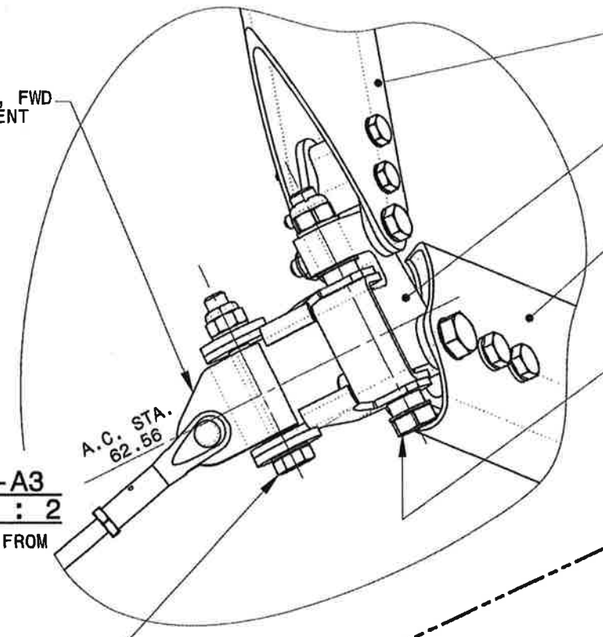
STRUT INSTALLATION, AEROCET MODEL 1500 FLOATS, CC11 AIRCAFT

SIZE	DWG. NO.	REV.
B	15-15100	I/R
SCALE 1:48	CAD FILE: 15\15-15100	SHEET 2 OF 5

3) SHOWING DETAIL LAYOUT AND FWD UPPER INSTALLATION







VIEW A3-A3
SCALE 1 : 2
AS VIEWED FROM ABOVE

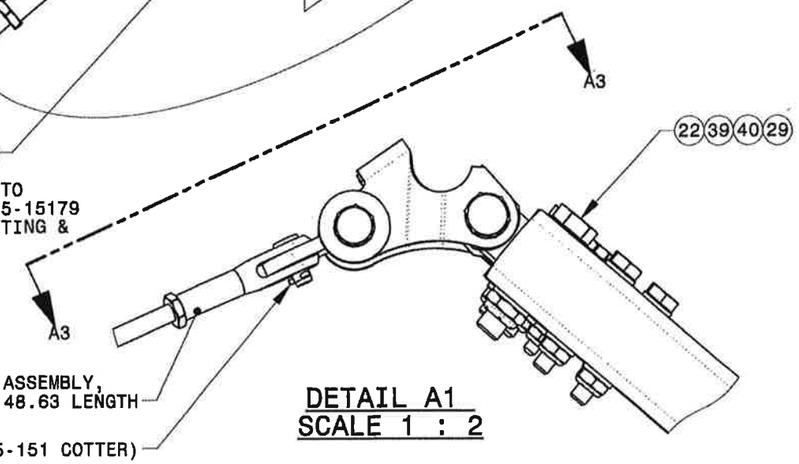
15-15140 STRUT ASSEMBLY, DIAGONAL (DIAGONAL STRUT IS SYMMETRIC, ORIENT FASTENER HEADS TO OUTBOARD SIDES)

15-15124 FUSELAGE FITTING, FWD

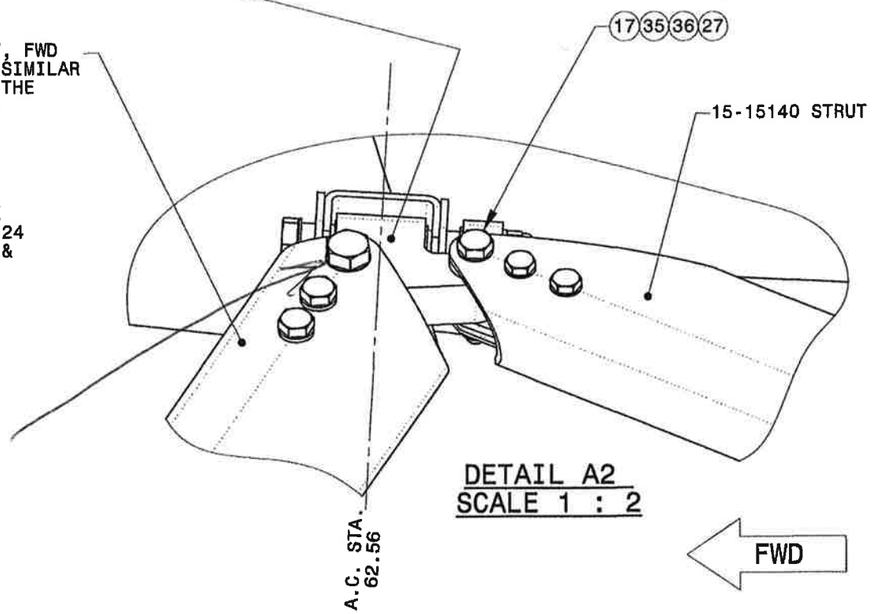
15-15120 STRUT ASSEMBLY, FWD -L, LHS SHOWN, -R, RHS SIMILAR FASTENERS ORIENTED TO THE OUTBOARD SIDE AS SHOWN

(24)(33)(32)(33)(33)(34)(26)
USE WASHERS TO MINIMIZE ANY GAP BETWEEN 15-15124 FUSELAGE FITTING, FWD & AIRCRAFT BRACKETS

(25)(31)(10)(30)(19)
USE WASHER ON FWD SIDE TO MINIMIZE GAP BETWEEN 15-15179 TIE ROD ATTACHMENT FITTING & AIRCRAFT BRACKET



DETAIL A1
SCALE 1 : 2



DETAIL A2
SCALE 1 : 2

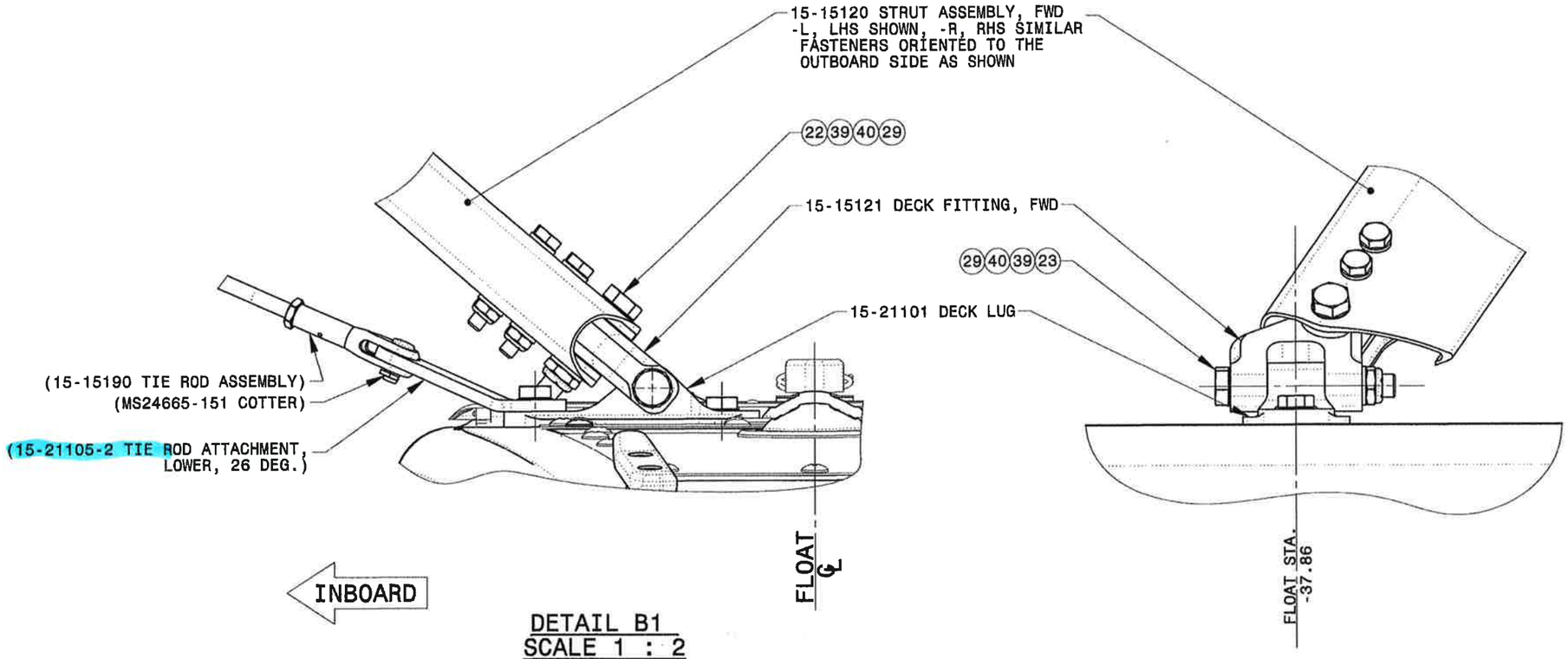
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.
TOLERANCES ARE:			APPROVALS / DATE
FRACTIONS N/A	DECIMALS N/A	ANGLES N/A	DRAWN RB 2/25/13
RADII N/A			CHECKED
SURFACE N/A			APPROVED 4/16/14
FINISH N/A			REV APPV'L N/A N/A
USED ON ASSEMBLY 15-15010			

AEROCET INCORPORATED
Priest River, Idaho

STRUT INSTALLATION, AEROCET MODEL 1500 FLOATS, CC11 AIRCAFT

SIZE B | DWG. NO. 15-15100 | REV. I/R
SCALE 1:48 | CAD FILE: 15\15-15100 | SHEET 3 OF 5

4) SHOWING FWD, LOWER INSTALLATION



INBOARD

DETAIL B1
SCALE 1 : 2

FWD LOWER ATTACHMENTS
LHS FLOAT AS VIEWED FROM FRONT

FORWARD

DETAIL B2
SCALE 1 : 2

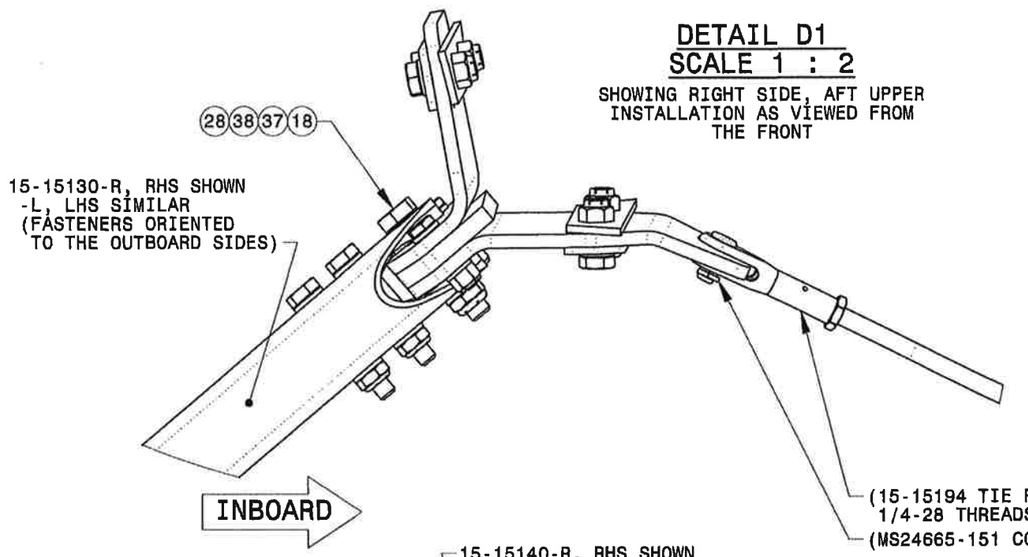
FWD LOWER ATTACHMENTS
LHS FLOAT AS VIEWED FROM LEFT SIDE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	AEROCET Priest River, Idaho
TOLERANCES ARE: FRACTIONS N/A; DECIMALS N/A; ANGLES N/A; RADII N/A		APPROVALS / DATE	STRUT INSTALLATION, AEROCET MODEL 1500 FLOATS, CC11 AIRCAFT
SURFACE N/A		DRAWN RB 2/26/13	
FINISH N/A		CHECKED	
USED ON ASSEMBLY 15-15010		APPROVED 4/14/14	
		REV APPV'L N/A N/A	SIZE B; DWG. NO. 15-15100; REV. I/R
			SCALE 1:48; CAD FILE: 15\15-15100; SHEET 4 OF 5

5) SHOWING AFT INSTALLATION (UPPER AND LOWER)

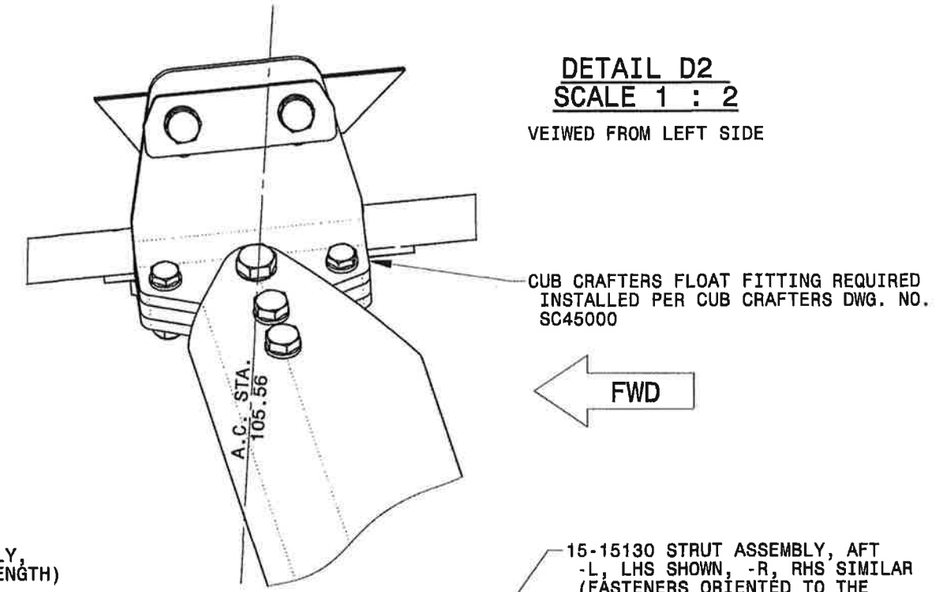
DETAIL D1
SCALE 1 : 2

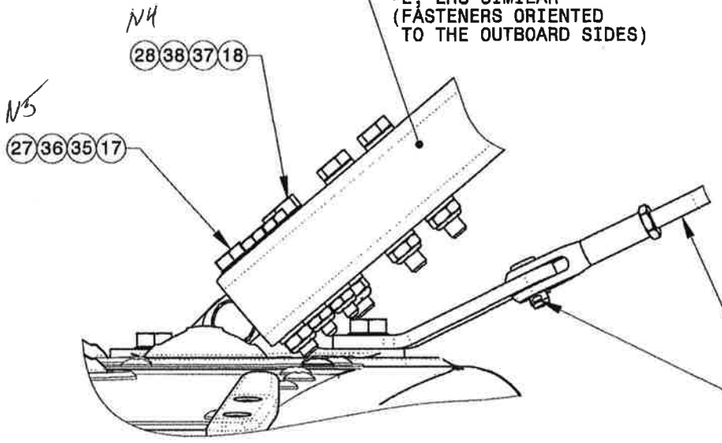
SHOWING RIGHT SIDE, AFT UPPER INSTALLATION AS VIEWED FROM THE FRONT



DETAIL D2
SCALE 1 : 2

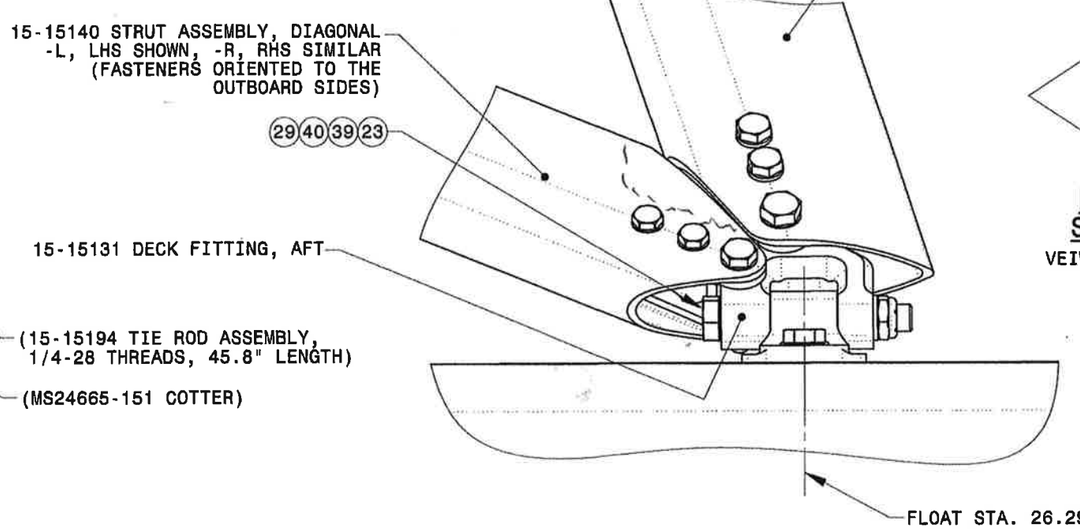
VEIWED FROM LEFT SIDE





DETAIL C1
SCALE 1 : 2

SHOWING RIGHT SIDE, AFT LOWER INSTALLATION AS VIEWED FROM THE FRONT



DETAIL C2
SCALE 1 : 2

VEIWED FROM LEFT SIDE

DIAGONAL AND REAR STRUT ASSEMBLY INSTALLATION
AIRCRAFT FUSELAGE IS HIDDEN TO SHOW FITTING DETAILS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.
TOLERANCES ARE:			APPROVALS / DATE
FRACTIONS N/A	DECIMALS N/A	ANGLES N/A	DRAWN RB 2/26/13
RADII N/A			CHECKED
SURFACE N/A			APPROVED 4/14/14
FINISH N/A			REV APPV'L N/A N/A
USED ON ASSEMBLY 15-15010			

AEROCET INCORPORATED
Priest River, Idaho

STRUT INSTALLATION, AEROCET MODEL 1500 FLOATS, CC11 AIRCAFT

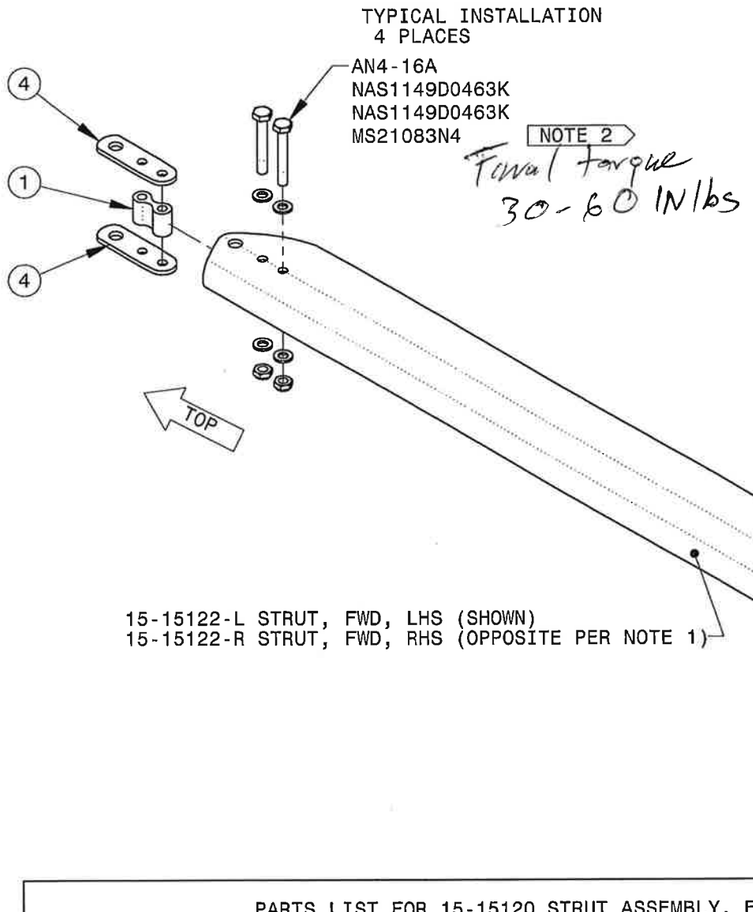
SIZE B | DWG. NO. 15-15100 | REV. I/R
SCALE 1:48 | CAD FILE: 15\15-15100 | SHEET 5 OF 5

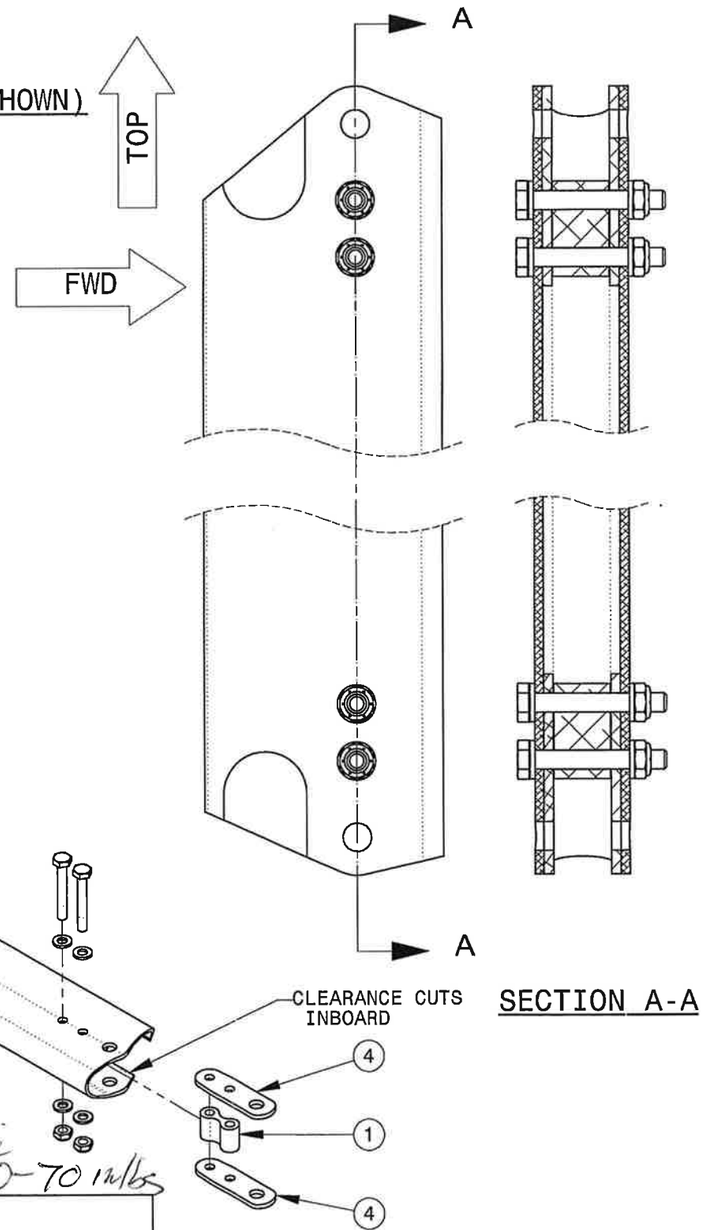
REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	RB	11/14/13	

Experimental Only

15-15120-L SHOWN (BOLTS & CLEARANCE CUTS ORIENTED AS SHOWN)

15-15120-R (BOLTS & CLEARANCE CUTS ORIENTED OPPOSITE)





SECTION A-A

CUSTOMER COPY

PARTS LIST FOR 15-15120 STRUT ASSEMBLY, FWD, -L OR -R					
ITEM NO.	15-15120-L QTY	15-15120-R QTY	TYPE	PART NUMBER	DESCRIPTION
1	2	2	PART	15-15105	SPACER, STRUT
2	1	-	PART	15-15122-L	STRUT, FWD, LHS
3	-	1	PART	15-15122-R	STRUT, FWD, RHS
4	4	4	PART	15-15125	STRAP INSERT, FWD STRUT ASSEMBLY
5	4	4	HRDWR	AN4-16A	BOLT - MACHINE, AIRCRAFT
6	4	4	HRDWR	MS21083N4	NUT, SELF-LOCKING, LOW HEIGHT
7	8	8	HRDWR	NAS1149D0463K	WASHER, FLAT

NOTES:

1) 15-15130-L STRUT ASSEMBLY, LHS SHOWN.
   15-15130-R STRUT ASSEMBLY, RHS (REVERSE FASTENER ORIENTATION, BOLT HEADS TO OUTBOARD SIDE & CLEARANCE CUTS TO THE INBOARD)

2) FINAL TORQUE AT INSTALLATION OF MS21083N4 NUTS 30-60IN-LBS. THIS ASSEMBLY MAY BE LEFT LOOSE, PARTS SIMPLY PACKAGED AND MARKED TOGETHER FOR INSTALLATION PUFPOSES. (REF DWG. NO. 15-15100)

3) PARTS SHALL BE MARKED CLEARLY AND LEGIBLY BY THE MOST PRACTICAL METHOD. IT MAY BE HELPFUL (NOT REQ'D) TO PFOVIDE IDENTIFICATION OF THE TOP END OF THE ASSEMBLY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.		AEROCET INCORPORATED Priest River, Idaho
TOLERANCES ARE: FRACTIONS ±1/32; DECIMALS .X ±.1, .XX ±.02, .XXX ±.010; ANGLES ±1°; RADII ±.032	APPROVALS	DATE	STRUT ASSEMBLY, FWD, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT
	DRAWN RB	2/9/13	
	CHECKED		
SURFACE 125 RMS	APPROVED	11/14/13	
FINISH N/A			SIZE B; DWG. NO. 15-15120; REV. I/R
USED ON ASSEMBLY 15-15100			SCALE 1:2; CAD FILE: 15\15-15120; SHEET 1 OF 1

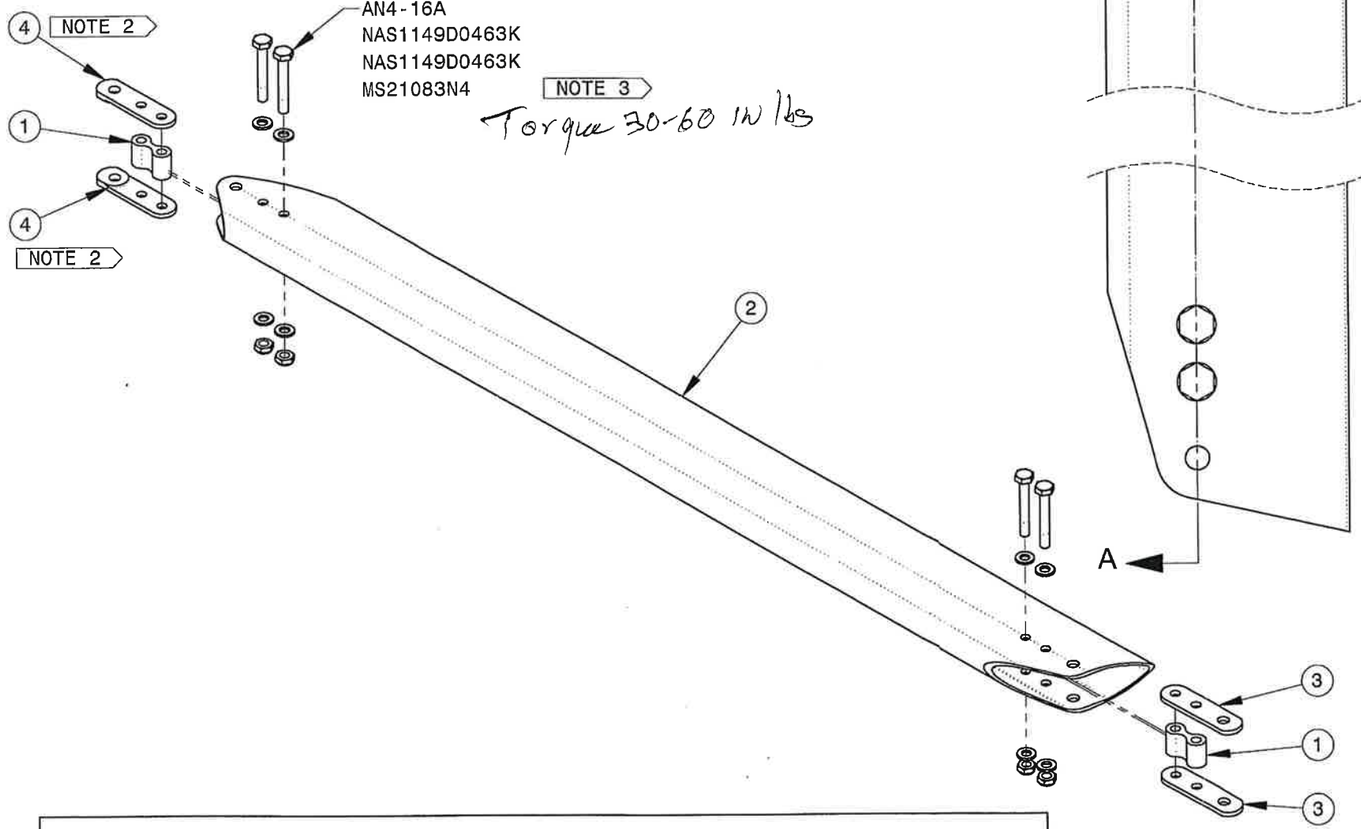
REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	RB	11/14/13	

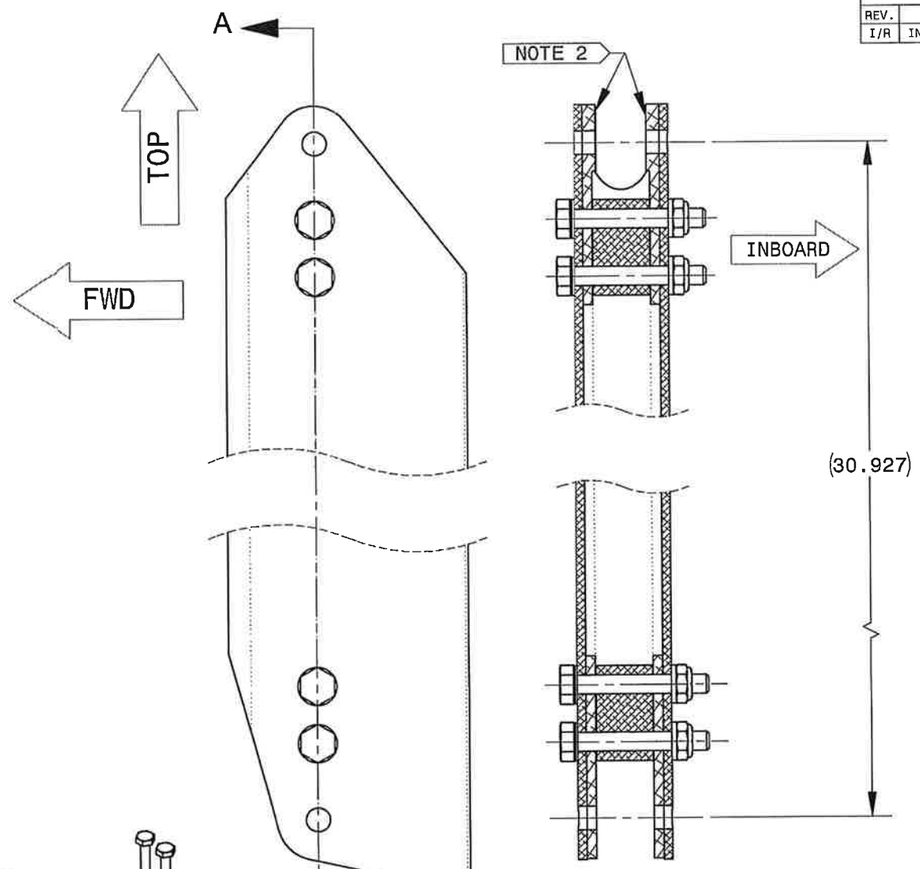
15-15130-L SHOWN (BOLTS ORIENTED AS SHOWN)

15-15130-R (BOLTS ORIENTED OPPOSITE)

Experimental Only

CUSTOMER COPY





SECTION A-A

PARTS LIST FOR 15-15130 STRUT ASSEMBLY, AFT -L OR -R				
ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION
1	2	PART	15-15105	SPACER, STRUT
2	1	PART	15-15132	STRUT, AFT
3	2	PART	15-15134	STRAP INSERT, AFT LOWER, STRUT ASSEMBLY
4	2	PART	15-15135	STRAP INSERT, AFT UPPER, STRUT ASSEMBLY
5	4	HRDWR	AN4-16A	BOLT - MACHINE, AIRCRAFT
6	4	HRDWR	MS21083N4	NUT, SELF-LOCKING, LOW HEIGHT
7	8	HRDWR	NAS1149D0463K	WASHER, FLAT

NOTES:

1) 15-15130-L STRUT ASSEMBLY, LHS SHOWN. 15-15130-R STRUT ASSEMBLY, RHS (REVERSE FASTENER ORIENTATION, BOLT HEADS TO OUTBOARD SIDE)

2 NOTE ORIENTATION OF 15-15107 STRAP INSERTS WITH HEAVY SIDE OF THE LUGS FACING INWARD.

3 TORQUE MS21083N4 NUTS 30-60IN-LBS.

4) PARTS SHALL BE MARKED CLEARLY AND LEGIBLY BY THE MOST PRACTICAL METHOD. IT MAY BE HELPFUL (NOT REQ'D) TO PROVIDE IDENTIFICATION OF THE TOP END OF THE ASSEMBLY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ±1/32 | DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 | ANGLES ±1°
RADII ±.032
SURFACE 125 RMS
FINISH N/A
USED ON ASSEMBLY 15-15100

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN RB	2/9/13
CHECKED	
APPROVED	11/14/13

AEROCET INCORPORATED
Priest River, Idaho

STRUT ASSEMBLY, AFT, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT

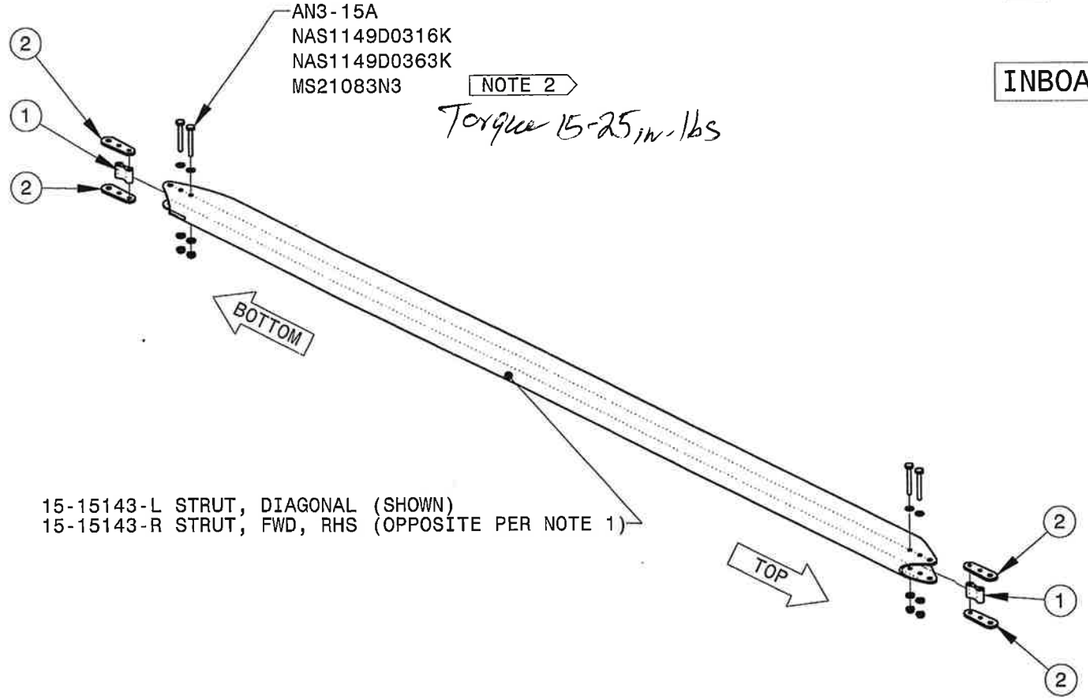
SIZE B | DWG. NO. 15-15130 | REV. I/R
SCALE 1:2 | CAD FILE: 15\15-15130 | SHEET 1 OF 1

REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	RB	11/14/13	

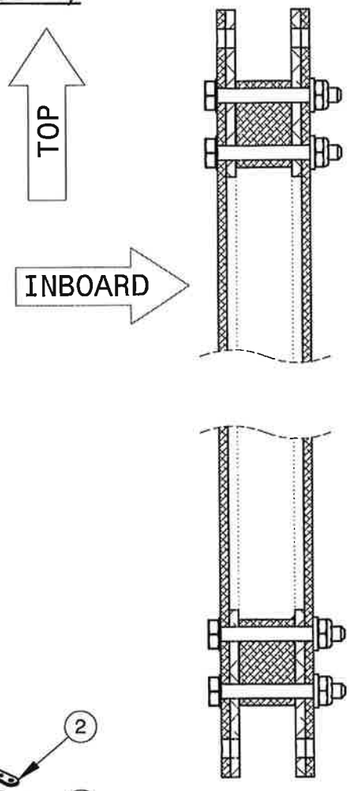
15-15140-L SHOWN (BOLTS & CLEARANCE CUTS ORIENTED AS SHOWN)

15-15140-R (BOLTS & CLEARANCE CUTS ORIENTED OPPOSITE)

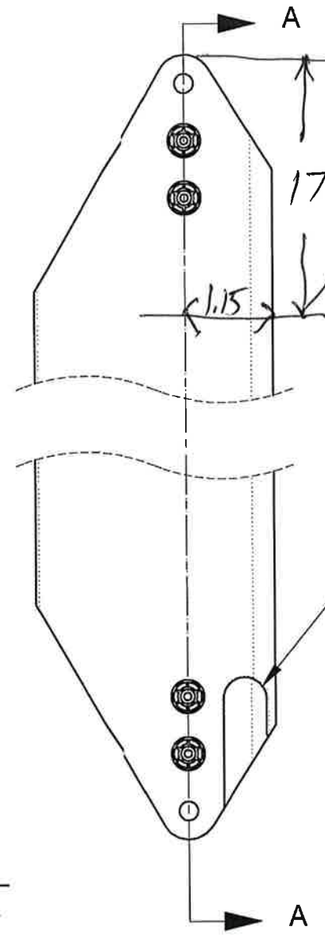
Experimental Only



15-15143-L STRUT, DIAGONAL (SHOWN)
15-15143-R STRUT, FWD, RHS (OPPOSITE PER NOTE 1)



SECTION A-A
SCALE 1 : 2



NOTES:

1) 15-15140-L STRUT ASSEMBLY, DIAGONAL, LHS SHOWN. 15-15140-R STRUT ASSEMBLY, DIAGONAL, OPPOSITE, (FASTENERS & CLEARANCE CUTS ORIENTED TO THE INBOARD.)

2 FINAL TORQUE AT INSTALLATION OF MS21083N3 NUTS 15-25IN-LBS. THIS ASSEMBLY, LEFT LOOSE OR WITH PARTS SIMPLY PACKAGED TOGETHER FOR INSTALLATION PURPOSES. (REF DWG. NO. 15-15100)

3) PARTS SHALL BE MARKED CLEARLY AND LEGIBLY BY THE MOST PRACTICAL METHOD.

PARTS LIST FOR 15-15140 STRUT ASSEMBLY, DIAGONAL, (LHS & RHS AS SHOWN)

ITEM NO.	15-15140-R QTY	15-15140-L QTY	TYPE	PART NUMBER	DESCRIPTION
1	2	2	PART	15-15141	SPACER, DIAGONAL STRUT
2	4	4	PART	15-15142	STRAP INSERT, DIAGONAL STRUT ASSEMBLY
3	-	1	PART	15-15143-L	STRUT, DIAGONAL
4	1	-	PART	15-15143-R	STRUT, DIAGONAL
5	4	4	HRDWR	AN3-15A	BOLT - MACHINE, AIRCRAFT
6	4	4	HRDWR	MS21083N3	NUT, SELF-LOCKING, LOW-HEIGHT
7	4	4	HRDWR	NAS1149D0316K	WASHER, FLAT
8	4	4	HRDWR	NAS1149D0363K	WASHER, FLAT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ±1/32 | DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 | ANGLES ±1°
RADII ±.032
SURFACE 125 RMS
FINISH N/A
USED ON ASSEMBLY 15-15100

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN RB	2/9/13
CHECKED	
APPROVED	11/14/13

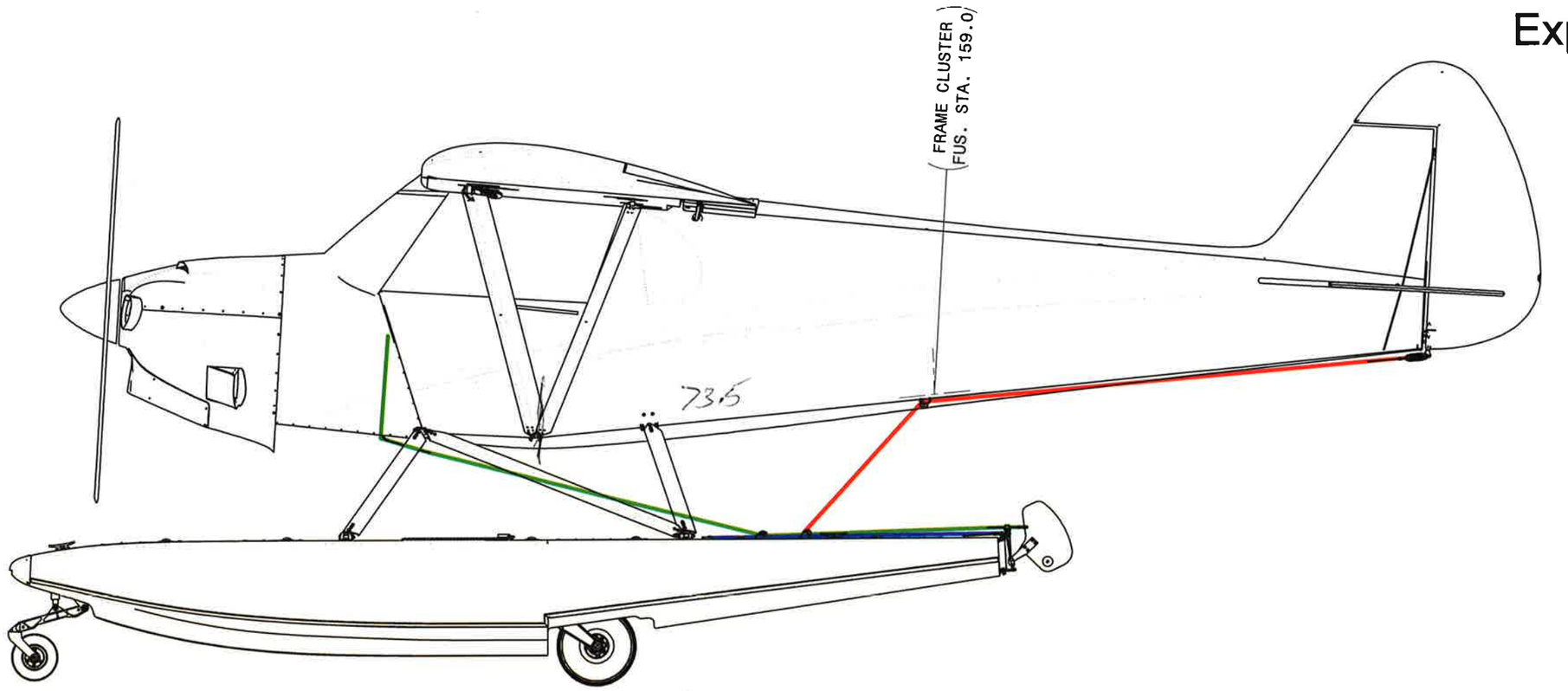
AEROCET INCORPORATED
Priest River, Idaho

STRUT ASSEMBLY, DIAGONAL, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT

SIZE B | DWG. NO. 15-15140 | REV. I/R
SCALE 1:4 | CAD FILE: 15\15-15140 | SHEET 1 OF 1

REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
N/A	INITIAL RELEASE	RB	4/23/14	TH

Experimental Only



NOTES:

1) THIS DRAWING COVERS THE INSTALLATION OF AEROCET MODEL 1500 TWIN AMPHIBIOUS FLOATS TO CUB CRAFTER'S CC11 STYLE EXPERIMENTAL AIRCRAFT.

2) WATER RUDDER ASSEMBLY IS CONSTRUCTED PER AEROCET DRAWING 15-24000 AND INSTALLED USING ATTACHMENT BOLTS PROVIDED.

3) WATER RUDDER STEERING CABLES CONNECT THE TILLER ASSEMBLIES TO THE AIR RUDDER VIA A SERIES OF PULLEYS AND TERMINATING AT THE TAILWHEEL FORK. EXISTING TAILWHEEL IS REMOVED.

4) AN INTERCONNECT (OR BALANCE) CABLE CONNECTS THE FLOAT RUDDERS TO ONE ANOTHER. THIS CAUSES BOTH RUDDERS TO FUNCTION SIMULTANEOUSLY DURING WATER TAXIING OPERATIONS.

5) WATER RUDDER RETRACT CABLES ARE ATTACHED TO EACH RUDDER BLADE. THESE ARE ROUTED EXTERNALLY ACROSS THE FLOATS TO A PULLEY AT A SUITABLE ANGLE TO MEET THE FAIRLEAD TUBE. THE RETRACT CABLES FROM EACH FLOAT ARE JOINED TO A SINGLE CABLE NEAR THE FAIRLEAD TUBE. A SECURING DEVICE WITHIN THE COCKPIT ALLOWS THE RUDDERS TO BE RETRACTED FROM WATER SERVICE DURING STEP-TAXI, TAKE-OFF, LANDING AND FLIGHT CONDITIONS. EXTENSION SPRINGS IN THE RUDDER ASSEMBLIES PROVIDE POSITIVE RUDDER BLADE DEPLOYMENT WHEN THIS LINE IS RELEASED.

6) FOR ACCEPTABLE METHODS AND PRACTICES FOR INSTALLATION AND AIRWORTHINESS REFER TO AC43-13 AND TO ILLUSTRATIONS IN THIS DRAWING.

NOTES: (CONT'D)

7) ALL CABLE (WIRE ROPE) ASSEMBLIES SHALL BE CONSTRUCTED TO SUIT INSTALLATION AS SHOWN IN THIS DRAWING.

AEROCET RECOMMENDS USE OF AIRCRAFT CONTROL CABLE (WIRE ROPE) PER MIL-DTL-83420, TYPE I, 3/32" DIAMETER, OF 7 X 7 OR 7 X 19 CONSTRUCTION.

COMPOSITIONS A OR B (CARBON STEEL OR CORROSION RESISTANT STEEL, RESP.) SHALL BE ACCEPTABLE FOR USE.

SPECIFICATION P/N: M83420/2-015 7 X 7 (CRES); OR
M83420/1-015 7 X 7 (CARBON STEEL); OR

M83429/2-004 7 X 19 (CRES); OR
M82420/1-004 7 X 19 (CARBON STEEL).

8) WATER RUDDER RETRACTION DEVICE MUST DEMONSTRATE APPROXIMATELY 6.25" OF TRAVEL AT THE TILLERS. THE RUDDER BLADES SHOULD BE SET APPROXIMATELY 1/2" FROM THE UPPER TILLER STOP WHEN IN THE RETRACTED CONDITION AND CONTACT THE LOWER TILLER STOP WHEN IN THE DEPLOYED CONDITION. RIGGING SHOULD JUST START TO RELAX IN THIS POSITION, BUT EXCESSIVE SAG SHOULD BE AVOIDED. (DUE TO TRAVEL DIFFERENTIAL AT THE SPLICE, THE TRAVEL AT THE RETRACT HANDLE WILL BE ABOUT 7.25" TO 7.5".)

9) SAFETY ANY TURNBUCKLES WITH MS21256-1 TURNBUCKLE CLIP MS20995C32 OR AN995C32 SAFETY WIRE. REFERENCE SHEET 6 FOR A VARIETY OF TURNBUCKLES THAT MAY BE USED.

NOTES: (CONT'D)

10) AEROCET RECOMMENDS USE OF CORROSION INHIBITING COMPOUNDS ON ALL FASTENERS. REFERENCE TABLE ON SHEET 6 FOR A VARIETY OF RECEMMENDED PRODUCTS.

11) SEAL FLOATS AT RIGGING PENETRATION POINTS WHERE INDICATED, USING SIKA-FLEX 292 OR EQUIVALENT URETHANE ADHESIVE.

12) NICOPRESS SLEEVE(S), TERMINALS OR TURNBUCKLES MUST NOT INTERFERE WITH THE OPERATION OF THE CABLE. (e.g. THE FULL MOTION OF THE AFFECTED CABLE MUST NOT CAUSE THE SLEEVE TO STRIKE PULLEYS OR OTHER STRUCTURE IN THAT LOCALE.)

13) PARTS AND HARDWARE REQUIRED FOR INSTALLATION ARE SHOWN ON SHEET 6 IN THE PARTS LIST.

ADDITIONAL PRODUCTS BEYOND THOSE NORMALLY SUPPLIED AS PART OF AN INSTALLATION FROM AEROCET ARE ALSO LISTED SEPERATELY. MANY OF THESE ARE AVAILABLE FROM AEROCET OR FROM OTHER AVIATION SOURCES.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS N/A | DECIMALS N/A | ANGLES N/A
RADII N/A
SURFACE N/A
FINISH N/A
USED ON ASSEMBLY N/A

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

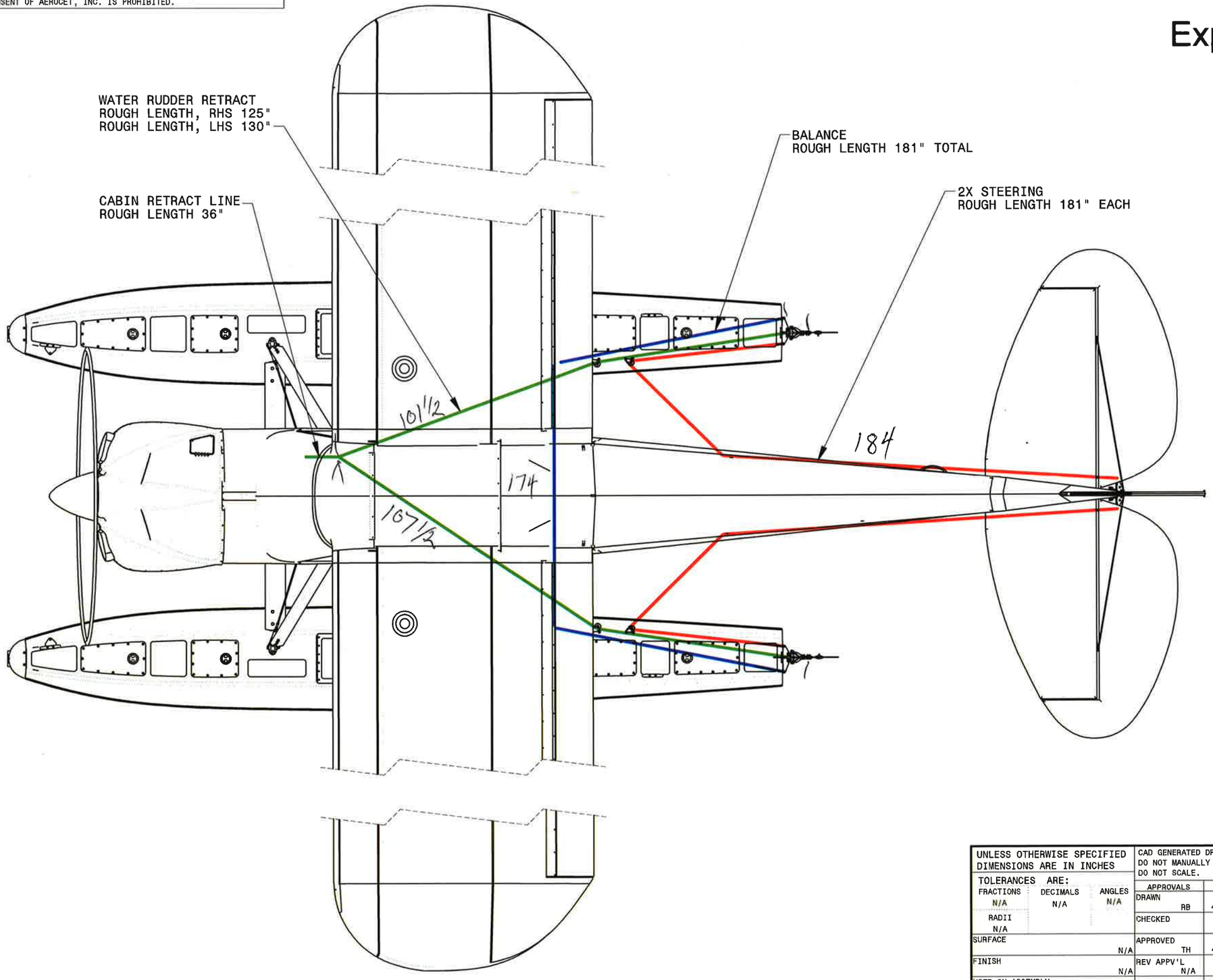
APPROVALS	DATE
DRAWN RB	4/18/14
CHECKED	
APPROVED TH	4/23/14

AEROCET INCORPORATED
Priest River, Idaho

WATER RUDDER RIGGING, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT

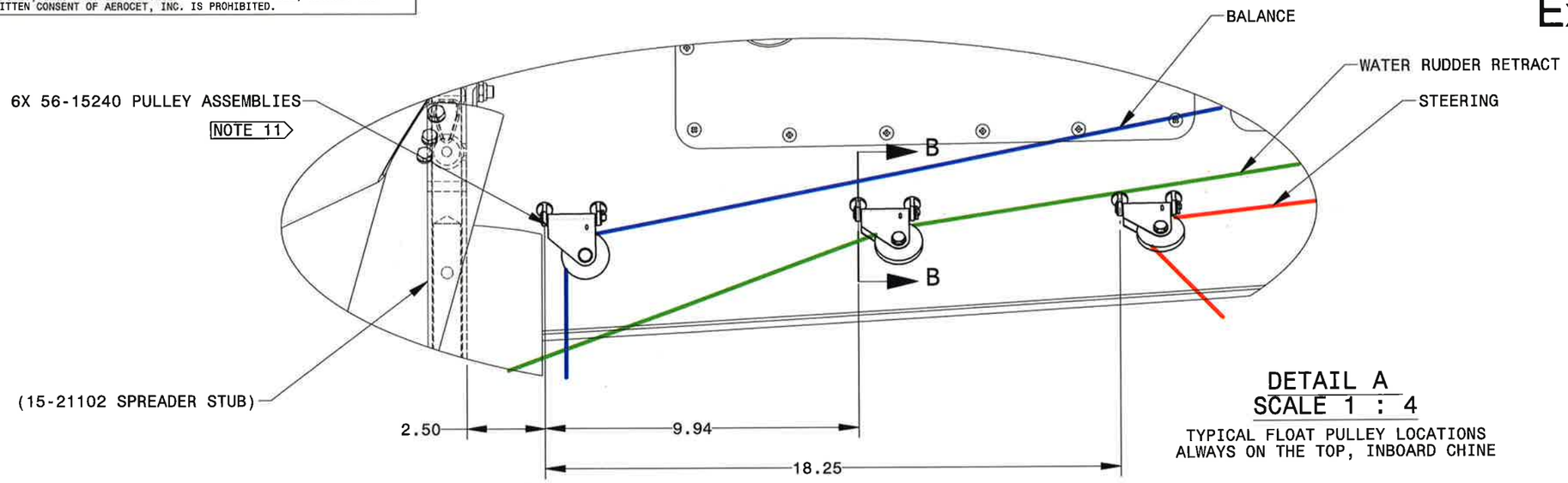
SIZE B | DWG. NO. 15-15200 | REV. I/R
SCALE 1:24 | CAD FILE: 15\15-15200 | SHEET 1 OF 7

Experimental Only



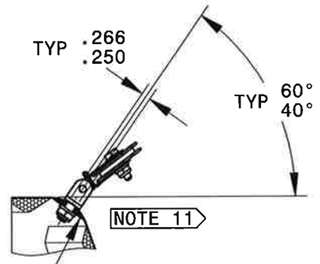
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS N/A · DECIMALS N/A · ANGLES N/A RADII N/A SURFACE N/A FINISH N/A USED ON ASSEMBLY N/A	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE. APPROVALS / DATE DRAWN RB 4/22/14 CHECKED APPROVED TH 4/23/14 REV APPV'L N/A N/A	AEROCET INCORPORATED Priest River, Idaho WATER RUDDER RIGGING, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT SIZE B · DWG. NO. 15-15200 · REV. I/R SCALE 1:24 · CAD FILE: 15\15-15200 · SHEET 2 OF 7

Experimental Only

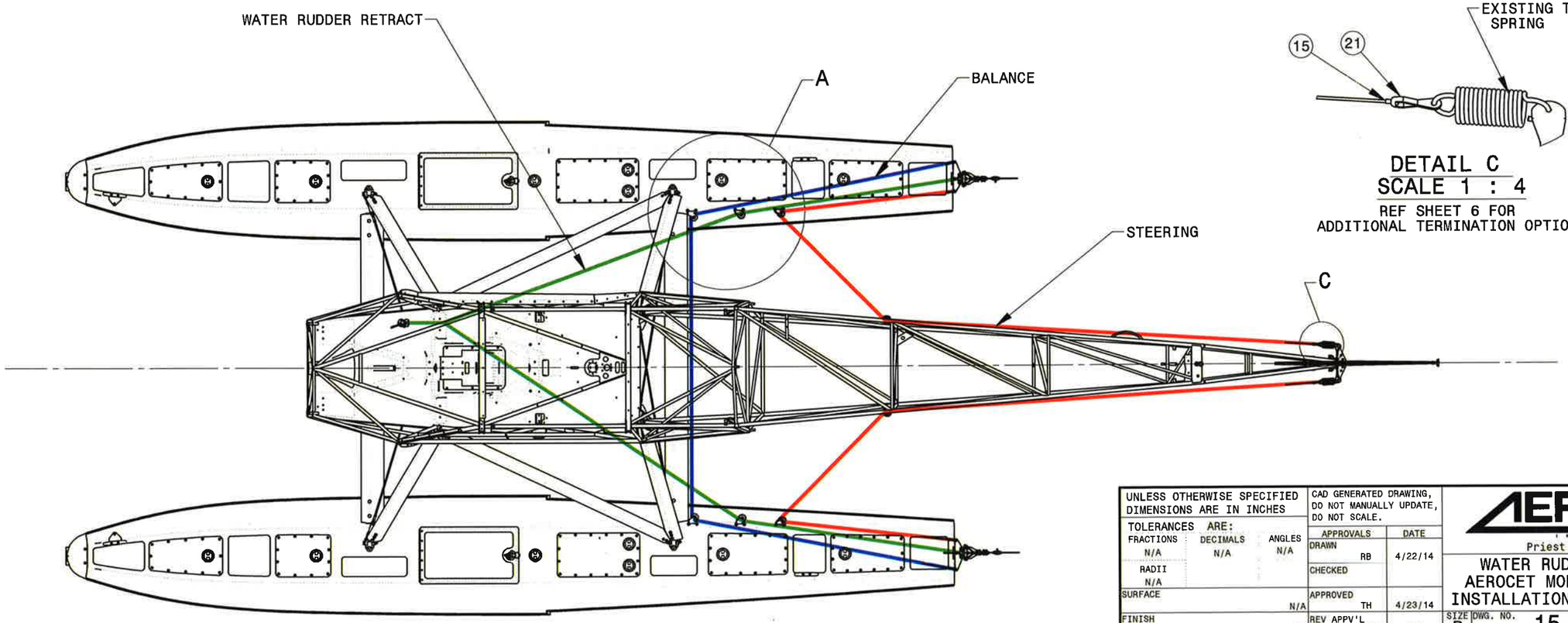


DETAIL A
SCALE 1 : 4

TYPICAL FLOAT PULLEY LOCATIONS
ALWAYS ON THE TOP, INBOARD CHINE



SECTION B-B
SCALE 1 : 4



DETAIL C
SCALE 1 : 4

REF SHEET 6 FOR
ADDITIONAL TERMINATION OPTIONS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	
TOLERANCES ARE: FRACTIONS N/A; DECIMALS N/A; ANGLES N/A		APPROVALS	DATE
RADII N/A		DRAWN RB	4/22/14
SURFACE N/A		CHECKED	
FINISH N/A		APPROVED TH	4/23/14
USED ON ASSEMBLY N/A		REV APPV'L N/A	N/A

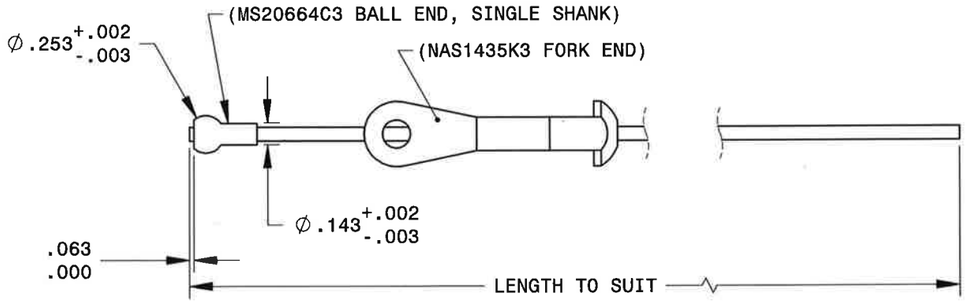
AEROCET INCORPORATED
Priest River, Idaho

WATER RUDDER RIGGING, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT

SIZE	DWG. NO.	REV.
B	15-15200	I/R

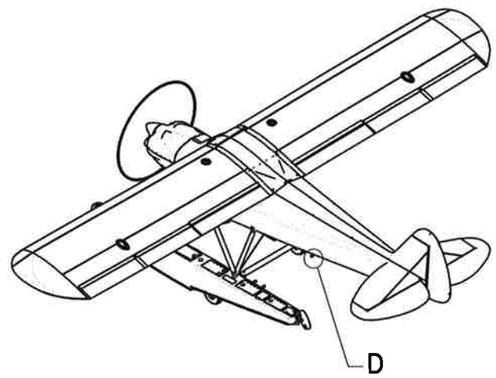
SCALE	CAD FILE:	SHEET
1:24	15\15-15200	3 OF 7

Experimental Only



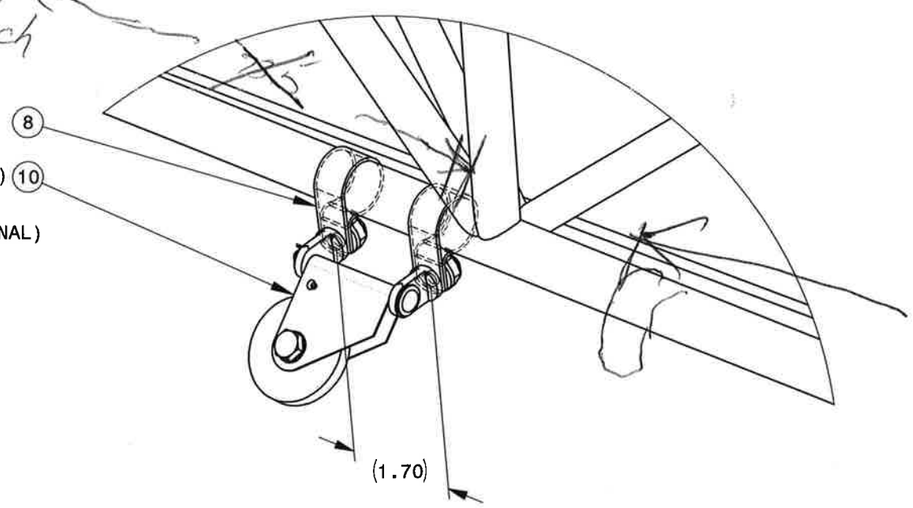
TYPICAL CABLE TERMINATION USING BALL END

SWAGING SHALL BE ACCOMPLISHED BY UNIFORMLY COLD-WORKING THE BALL END UNTIL ITS DIMENSIONS CONFORM TO THE DIMENSIONS SHOWN



Front of strut attach Plate rear lip

All edge



56-15240 SWIVEL PULLEY (SHOWN)
(USES AEROCET CLEVIS PIN) OR

35-34039 SWIVEL PULLEY (OPTIONAL)
(USES THREADED FASTENER)

NOTE ORIENTATION OF PULLEY

8 9¾

DETAIL D
SCALE 1 : 2

FABRIC HIDDEN TO SHOW DETAILS
SHOWING 56-15240 SWIVEL PULLEY INSTALLATION,
JUST AHEAD OF FRAME CLUSTER AT AIRCRAFT STA. 159.0

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	
TOLERANCES ARE: FRACTIONS N/A; DECIMALS N/A; ANGLES N/A		APPROVALS	DATE
RADII N/A		DRAWN RB	4/22/14
SURFACE N/A		CHECKED	
FINISH N/A		APPROVED TH	4/23/14
USED ON ASSEMBLY N/A		REV APPV'L N/A	N/A

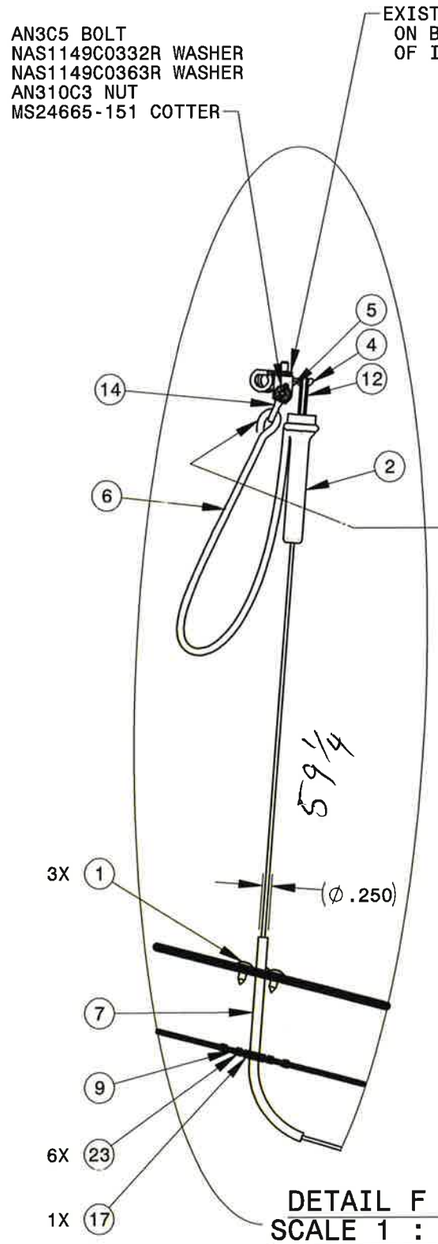
AEROCET INCORPORATED
Priest River, Idaho

WATER RUDDER RIGGING, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT

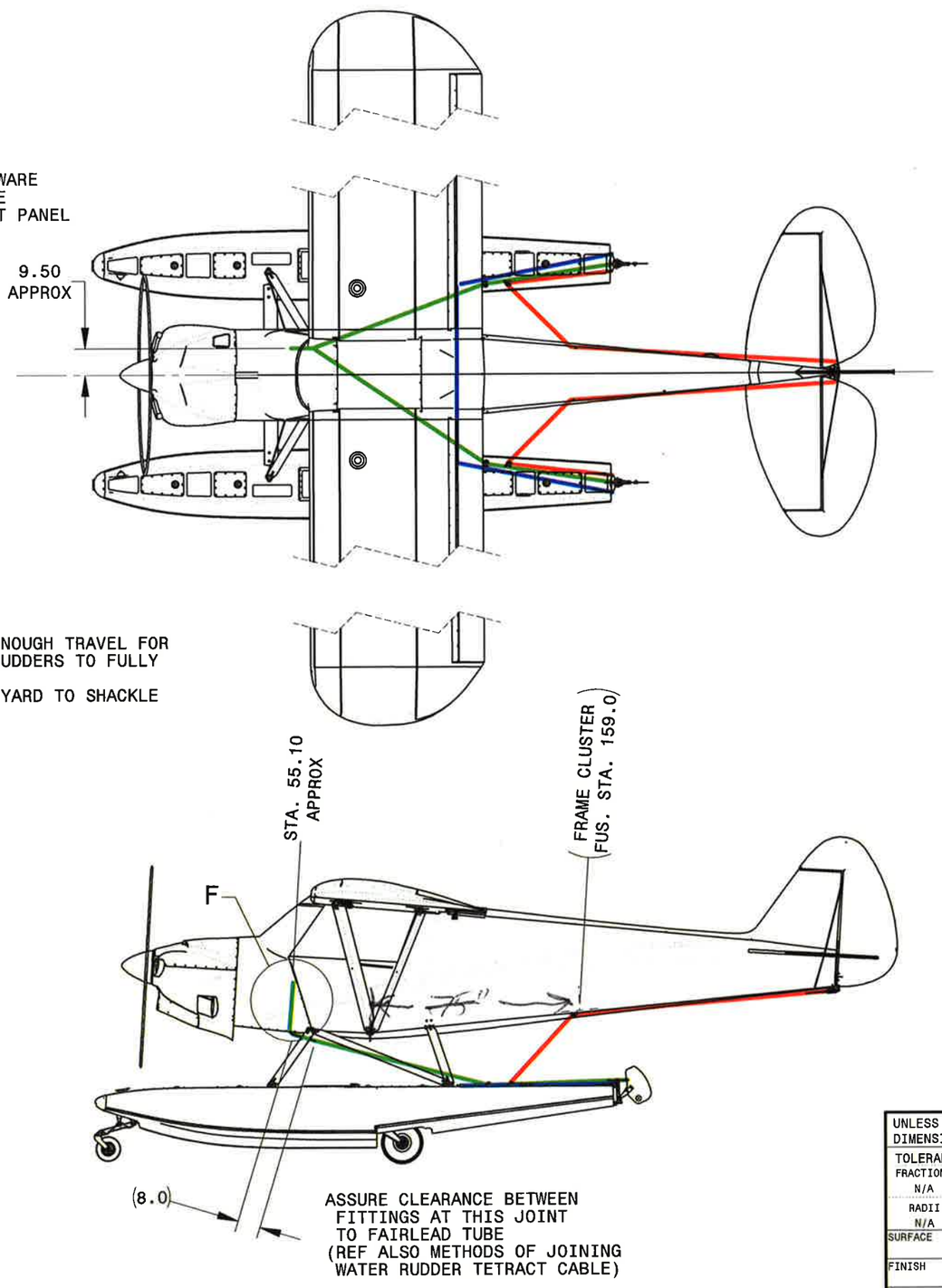
SIZE	DWG. NO.	REV.
B	15-15200	I/R

SCALE 1:96 | CAD FILE: 15\15-15200 | SHEET 4 OF 7

Experimental Only

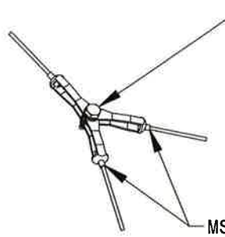


DETAIL F
SCALE 1 : 4



ASSURE CLEARANCE BETWEEN FITTINGS AT THIS JOINT TO FAIRLEAD TUBE
(REF ALSO METHODS OF JOINING WATER RUDDER TETRACT CABLE)

METHODS OF JOINING WATER RUDDER RETRACT CABLE



(1X) AN3C5 BOLT
(3X) NAS1435K3 FORK ENDS
(3X) MS20664C3 BALL ENDS
(1X) NAS1149C0363R WASHER
(1X) AN310C3 NUT
(1X) MS24665-151 COTTER

MS20664C3 BALL END, SINGLE SHANK

(3X) AN100C4 THIMBLE
(3X) MS51844-23 NICOPRESS SLEEVE
(28-2-G PLATED SLEEVE)
(REF TYPICAL NICOPRESS INSTALLATION SHOWN SHT 7)

MS51844-23 NICOPRESS SLEEVE
(28-2-G PLATED SLEEVE)
(REF TYPICAL NICOPRESS INSTALLATION SHOWN SHT 7)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	
TOLERANCES ARE: FRACTIONS N/A	DECIMALS N/A	ANGLES N/A	APPROVALS / DATE
RADII N/A			DRAWN RB 4/22/14
SURFACE N/A			CHECKED
FINISH N/A			APPROVED TH 4/23/14
USED ON ASSEMBLY N/A			REV APPV'L

AEROCET
Priest River, Idaho

WATER RUDDER RIGGING, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT

SIZE B | DWG. NO. 15-15200 | REV. I/R
SCALE 1:48 | CAD FILE: 15\15-15200 | SHEET 5 OF 7

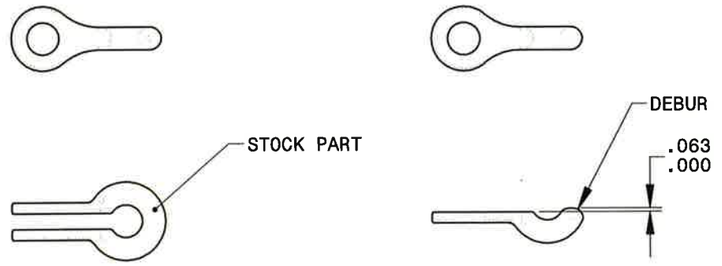
MISCELANEOUS ITEMS THAT ARE NOT NORMALLY SUPPLIED WITH AEROCET KITS
USEAGE OF THE FOLLOWING IS RECOMMENDED AT THE DISCRETION OF THE OWNER OR INSTALLER
(SEE ALSO TURNBUCKLE OPTIONS ON FOLLOWING SHEET)

QTY	TYPE	PART NUMBER	DESCRIPTION	DRAWING LOCATIONS (CALLOUTS) OR INTENDED USES	COMMENTS
2	HRDWR	MS20668-3	TERMINAL, WIRE ROPE, SWAGING, EYE END		USAGE IS OPTIONAL
1	HRDWR	MS20995C32	SAFETY WIRE, STAINLESS	TURNBUCKLES (IF APPLICABLE)	
1	BULK	SIKA-FLEX 292 (WHITE)	MARINE GRADE URETHANE ADHESIVE/SEALANT	SEALANT AT HULL PENETRATION POINTS	3M 5200 OR EQUIVALENT
1	BULK	MIL-PRF-907	ANTISEIZE COMPOUND	TURNBUCKLES AND FASTENERS	OR EQUIVALENT (MANY PRODUCTS MEET MIL-PRF-907 AND ARE READILY AVAILABLE.) NOTE: LOCTITE MARINE GRADE ANTISEIZE MAY WORK WELL IN SOME CASES. THIS PRODUCT CONTAINS NO METALS, IS WATER RESISTANT AND PREVENTS GAVANIC CORROSION.
1	BULK	EZ-TURN LUBRICANT	CORROSION RESISTING AND LUBRICATION COMPOUND	METAL FASTENER ASSEMBLIES	PUR-AL-KETONE, LPS 3 OR SIMILAR

PARTS LIST FOR 15-15200 WATER RUDDER RIGGING

ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION	ALTERNATE PN
1	3	HRDWR	10R X 1/2 TAS	TRUSS HEAD SCREW, STAINLESS	
2	1	PART	15-15212	HANDLE, WATER RUDDER RETRACT	
3	2	PART	15-15215	SET SCREW, STAINLESS, 6-32 X .25	
4	1	HRDWR	15-15216	SHACKLE - WIRE ROPE, TRIMMED	AN115-21; AN115C-21; MS20115F3; MS20115-3; MS20115K3 - TRIMMED PER DETAIL
5	1	PART	15-15217	BRACKET, 90°, #10 FASTENERS	
6	1	PART	15-15218	LANYARD, Ø3/16", WATER RUDDER RETRACT HANDLE	
7	1	ASSY	22-15220	FAIRLEAD ASSEMBLY, TUBE STYLE, WATER RUDDER RETRACT CABLE	
8	4	PART	22-15231	CLAMP, LOOP TYPE	
9	1	PART	22-15232	SKIN DOUBLER, FAIRLEAD TUBE ASSEMBLY INSTALLATION	
10	8	ASSY	56-15240	SWIVEL PULLEY ASSEMBLY, FLOAT MOUNTED	
11	7	HRDWR	AN3C5	BOLT - MACHINE, AIRCRAFT, STAINLESS	
12	1	HRDWR	AN100C4	THIMBLE, WIRE CABLE	
13	7	HRDWR	AN310C3	NUT, CASTELLATED, STAINLESS	
14	1	HRDWR	MS20115-3	SHACKLE - WIRE ROPE	
15	8	HRDWR	MS20664C3	BALL END, SINGLE SHANK	
16	7	HRDWR	MS24665-151	COTTER PIN	
17	1	HRDWR	MS35489-6	RUBBER GROMMET	
18	2	HRDWR	MS51844-23	NICOPRESS SLEEVE	28-2-G
19	1	HRDWR	NAS1149C0316R	WASHER, FLAT, STAINLESS	
20	7	HRDWR	NAS1149C0363R	WASHER, FLAT, STAINLESS	
21	2	HRDWR	NAS1435E3	EYE END	
22	6	HRDWR	NAS1435K3	FORK END	
23	6	HRDWR	NAS9301-4-02	BLIND RIVET	CR3213-4-02 (CHERRYMAX)

Experimental Only

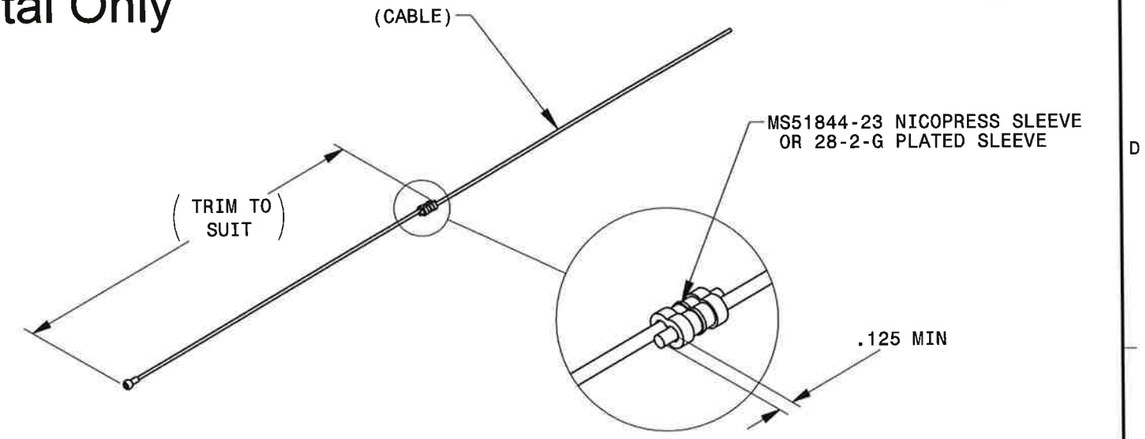


DETAIL OF 15-15216 SHACKLE, TRIMMED
(REF AEROCET DWG. NO. 15-15216)

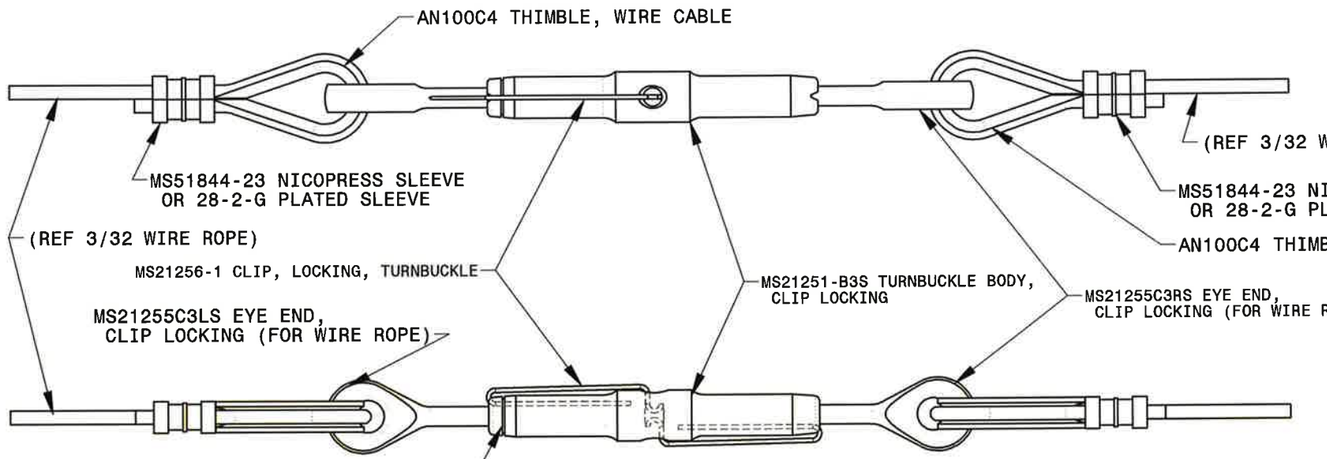
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	AEROCET INCORPORATED Priest River, Idaho	
TOLERANCES ARE: FRACTIONS N/A; DECIMALS N/A; ANGLES N/A; RADII N/A	APPROVALS / DATE	WATER RUDDER RIGGING, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT	
SURFACE N/A	DRAWN RB 4/18/14		
FINISH N/A	CHECKED		
USED ON ASSEMBLY N/A	APPROVED TH 4/23/14	SIZE B; DWG. NO. 15-15200; REV. I/R	
	REV APPV'L N/A N/A	SCALE 1:96; CAD FILE: 15\15-15200; SHEET 6 OF 7	

Experimental Only

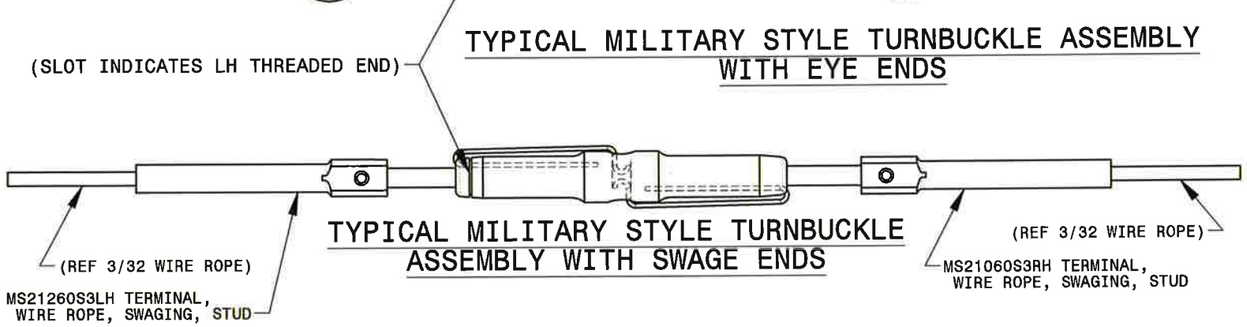
MILITARY STANDARD TURNBUCKLE OPTIONS NOTE: ENDS MAY BE SUBSTITUTED TO SUIT INSTALLATION						
ITEM NO.	EYED ENDS QTY	SWAGED STUD ENDS QTY	CLEVIS ENDS QTY	TYPE	PART NUMBER	DESCRIPTION
1	2	-	-	HRDWR	AN100C4	THIMBLE, WIRE CABLE
2	1	1	1	HRDWR	MS21251-B3S	TURNBUCKLE BODY, CLIP LOCKING
3	-	-	2	HRDWR	MS21252C3LS	CLEVIS END, TURNBUCKLE, CLIP LOCKING
4	1	-	-	HRDWR	MS21255C3LS	EYE END, TURNBUCKLE, CLIP LOCKING (FOR WIRE ROPE)
5	1	-	-	HRDWR	MS21255C3RS	EYE END, TURNBUCKLE, CLIP LOCKING (FOR WIRE ROPE)
6	2	2	2	HRDWR	MS21256-1	CLIP, LOCKING, TURNBUCKLE
7	-	1	-	HRDWR	MS21260S3RH	TERMINAL, WIRE ROPE, SWAGING, STUD
8	-	1	-	HRDWR	MS21260S3RH	TERMINAL, WIRE ROPE, SWAGING, STUD
9	2	-	-	HRDWR	MS51844-23	NICOPRESS SLEEVE



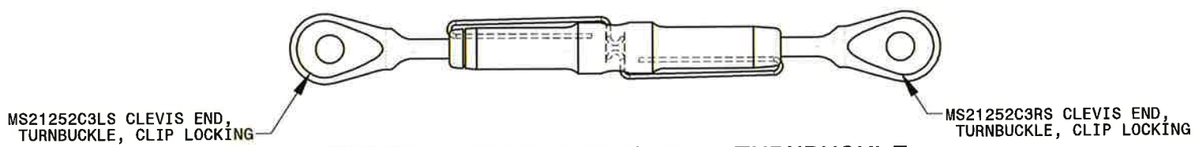
TYPICAL MS51844-23 INSTALLATION



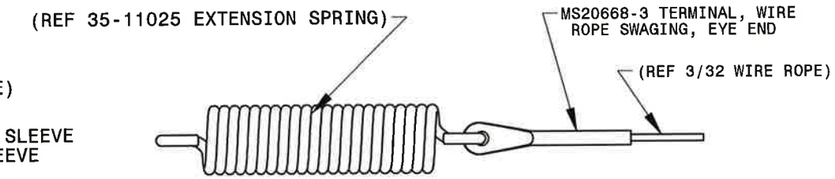
TYPICAL MILITARY STYLE TURNBUCKLE ASSEMBLY WITH EYE ENDS



TYPICAL MILITARY STYLE TURNBUCKLE ASSEMBLY WITH SWAGE ENDS



TYPICAL MILITARY STYLE TURNBUCKLE ASSEMBLY WITH CLEVIS ENDS



OPTIONAL WATER RUDDER CONTROL CABLE TERMINATION (REF SHEET 3, SEC. B-1)

TURNBUCKLE ASSEMBLY NOTES (FROM MS33736D):

1) PRIOR TO SAFETYING, BOTH THREADED TERMINALS SHALL BE THREADED AND EQUAL DISTANCE INTO THE TURNBUCKLE BODY AND SHALL BE THREADED TO A DEPTH SUCH THAT NOT MORE THAN THREE FULL THREADS OF ANY TERMINAL ARE EXPOSED OUTSIDE THE BODY.

2) AFTER THE TURNBUCKLE HAS BEEN ADJUSTED TO ITS LOCKING POSITION, WITH THE SLOT INDICATOR GROOVE ON THE TERMINALS AND SLOT INDICATOR NOTCH ON BODY ALIGNED, INSERT THE END OF THE LOCKING CLIP INTO THE TERMINAL BODY AS ILLUSTRATED IN [THE FIGURES SHOWN] UNTIL THE U CURVED END OF THE LOCKING CLIP IS OVER THE HOLE IN THE CENTER OF THE BODY. PRESS THE LOCKING CLIP WILL EXPAND AND LATCH IN THE BODY SLOT. TO CHECK PROPER SEATING OF THE LOCKING CLIP, ATTEMPT TO REMOVE PRESSED U END FROM BODY HOLE WITH FINGERS ONLY. (DO NOT USE TOOLS AS LOCKING CLIP COULD BECOME DISTORTED.)

3) LOCKING CLIPS ARE FOR ONE TIME USE ONLY AND SHALL NOT BE REUSED.

4) BOTH LOCKING CLIPS MAY BE INSERTED IN THE SAME HOLE OF THE TURNBUCKLE BODY OR IN OPPOSITE HOLES.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	
TOLERANCES ARE:		APPROVALS	DATE
FRACTIONS N/A	DECIMALS N/A	ANGLES N/A	DRAWN RB	4/22/14
RADII N/A			CHECKED	
SURFACE N/A			APPROVED TH	4/23/14
FINISH N/A			REV APPV'L N/A	N/A
USED ON ASSEMBLY N/A				

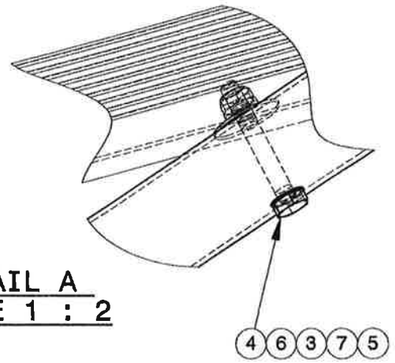
AEROCET INCORPORATED
Priest River, Idaho

WATER RUDDER RIGGING, AEROCET MODEL 1500 FLOAT INSTALLATION, CC11 AIRCRAFT

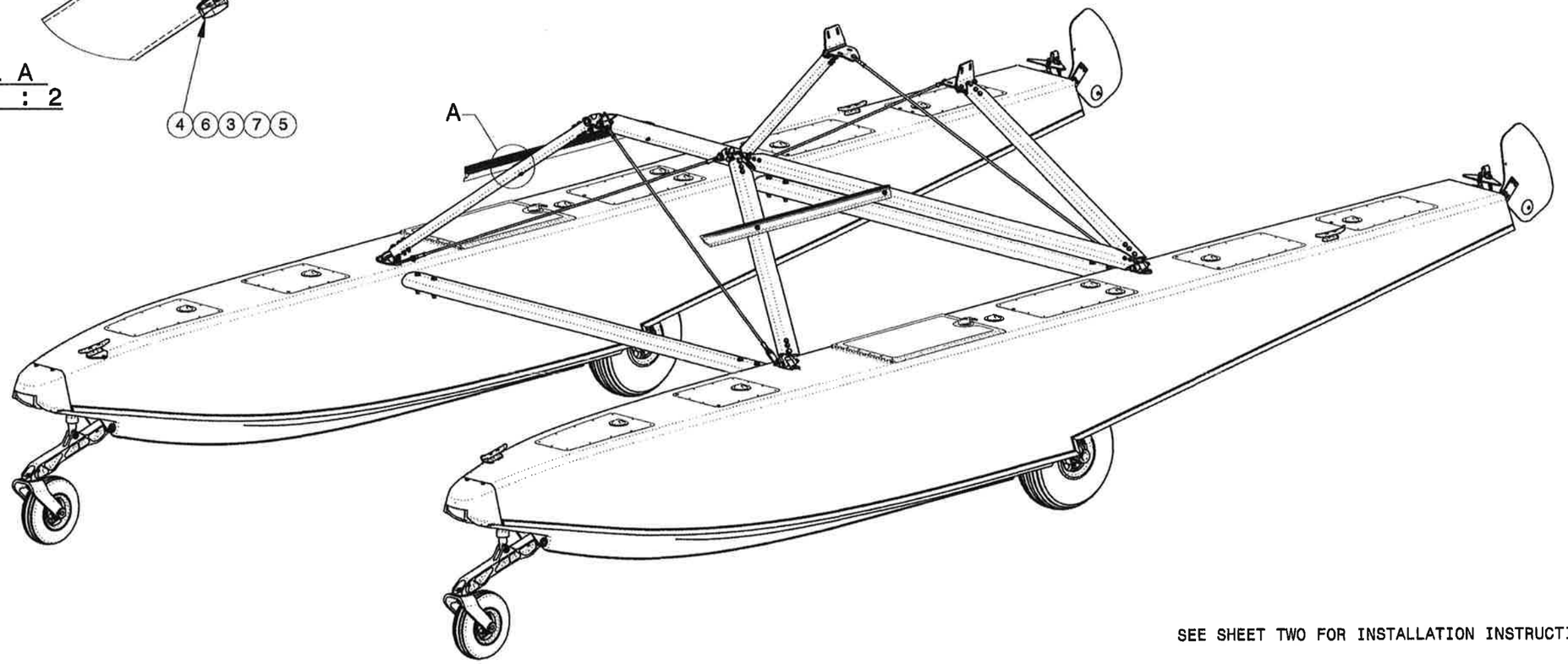
SIZE	DWG. NO.	REV.
B	15-15200	I/R

SCALE 1:1 | CAD FILE: 15\15-15200 | SHEET 7 OF 7

REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	RB	4/18/14	



DETAIL A
SCALE 1 : 2



SEE SHEET TWO FOR INSTALLATION INSTRUCTIONS

PARTS LIST FOR 15-15300 BOARDING STEP INSTALLATION

ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION
1	1	PART	15-15302-L	BOARDING STEP, LEFT SIDE
2	1	PART	15-15302-R	BOARDING STEP, RIGHT SIDE
3	4	PART	35-32137	STEP WASHER
4	4	HRDWR	AN4-16A	BOLT - MACHINE, AIRCRAFT
5	4	HRDWR	MS21083N4	NUT, SELF-LOCKING, LOW HEIGHT
6	4	HRDWR	NAS1149D0416K	WASHER, FLAT
7	4	HRDWR	NAS1149D0463K	WASHER, FLAT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS N/A | DECIMALS N/A | ANGLES N/A
RADII N/A
SURFACE N/A
FINISH N/A
USED ON ASSEMBLY 15-15010

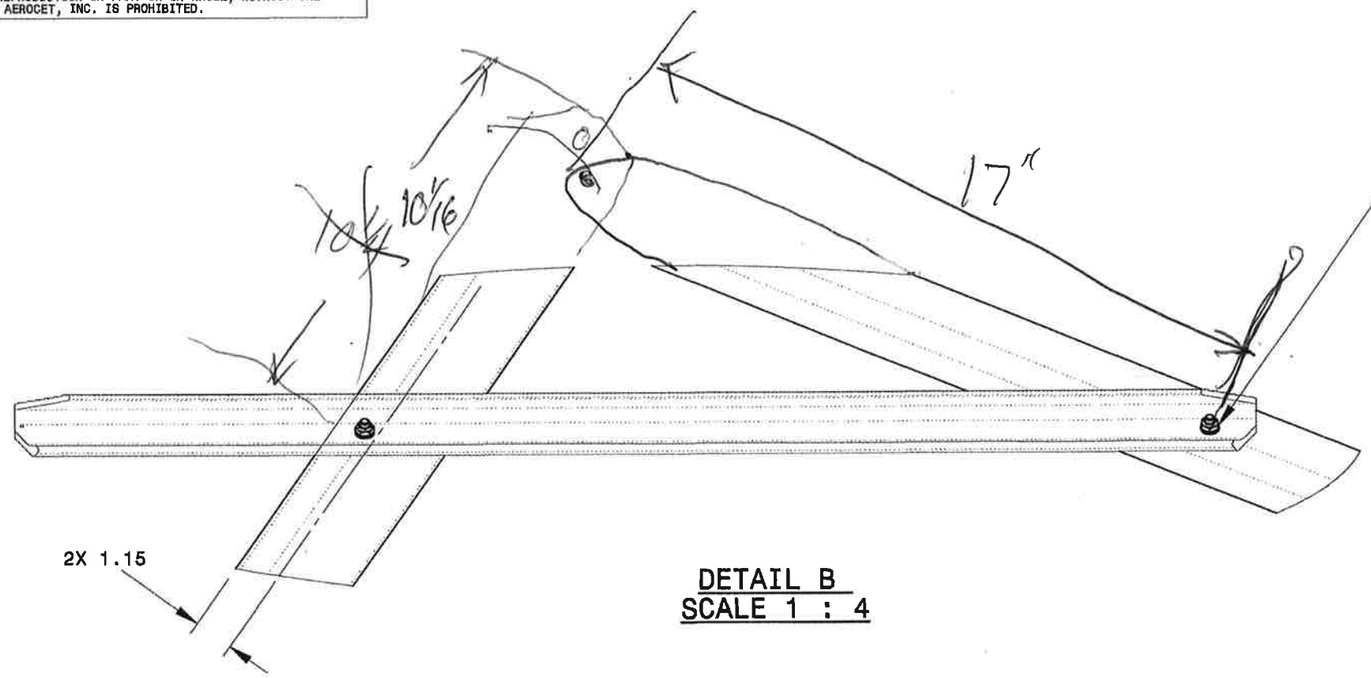
CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN RB	3/14/13
CHECKED	
APPROVED	

AEROCET INCORPORATED
Priest River, Idaho

BOARDING STEP INSTALLATION, AEROCET MODEL 1500 FLOATS ON CC11 AIRCRAFT

SIZE B | DWG. NO. 15-15300 | REV. I/R
SCALE 1:16 | CAD FILE: 15\15-15300 | SHEET 1 OF 2

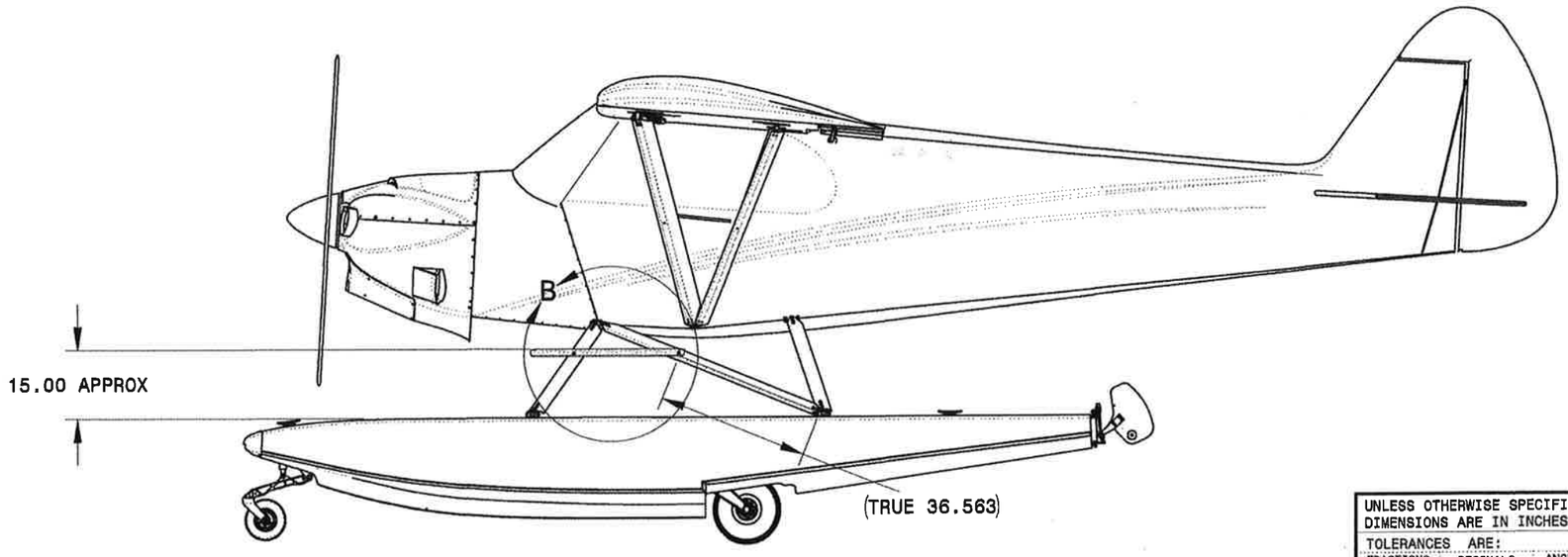


LOCATE PRE-DRILLED BOARDING STEP AS SHOWN (15"FROM FLOAT DECK AND 1.15" FROM LEADING EDGE)

MARK STRUT AND DRILL DIAGONAL ∅.250-∅.265 THRU

WITH HARDWARE LOOSELY INSTALLED TO THE DIAGONAL STRUT, LEVEL STEP TO FLOAT DECK, TEMPORARILY AFFIX IT AND BACK DRILL THROUGH THE FWD STRUT AND BOARDING STEP TOGETHER

DETAIL B
SCALE 1 : 4



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.
TOLERANCES ARE:			APPROVALS / DATE
FRACTIONS N/A	DECIMALS N/A	ANGLES N/A	DRAWN RB 3/20/13
RADII N/A			CHECKED
SURFACE N/A			APPROVED 4/16/14
FINISH N/A			REV APPV'L N/A N/A
USED ON ASSEMBLY 15-15010			

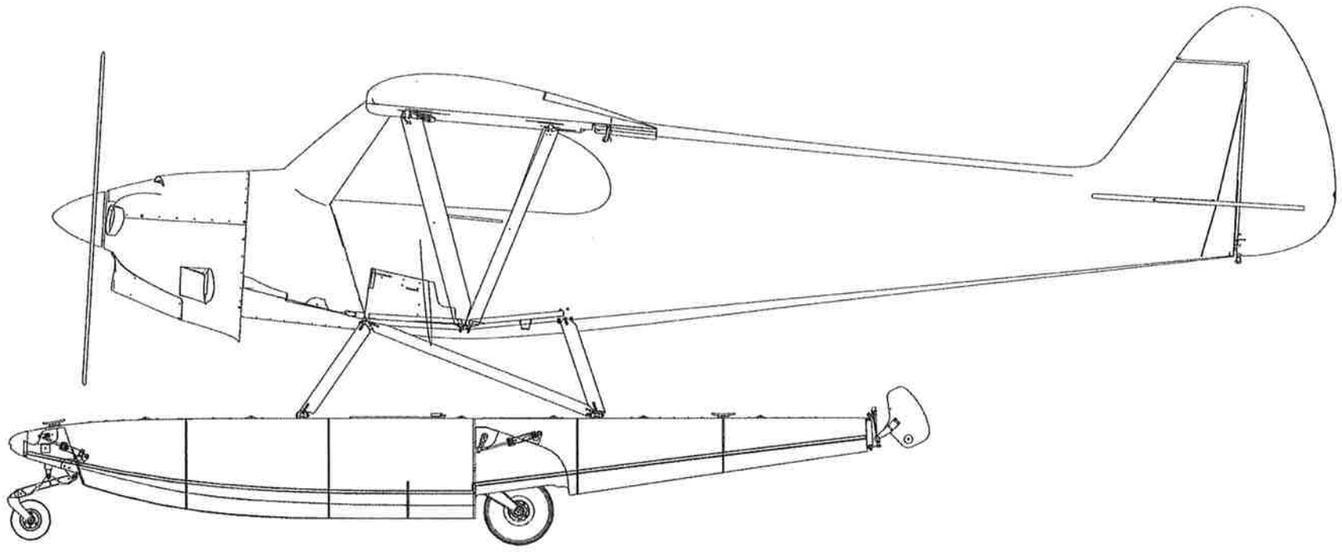
AEROCET INCORPORATED
Priest River, Idaho

BOARDING STEP INSTALLATION, AEROCET MODEL 1500 FLOATS ON CC11 AIRCRAFT

SIZE	DWG. NO.	REV.
B	15-15300	P01
SCALE 1:32	CAD FILE: 15\15-15300	SHEET 2 OF 2

VR RCB

REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	RB	4/30/14	



ITEM NO.	QTY	PART NUMBER	DESCRIPTION
1	1	15-47500	HYDRAULIC HAND PUMP INSTALLATION
2	1	15-47502	IN-AIRCRAFT HYDRAULIC LINE INSTALLATION
3	1	15-60000	ELECTRICAL INSTALLATION

NOTES:

1) REFERENCE DRAWINGS FOR EACH OF THESE SUBASSEMBLIES FOR DETAILS AND INFORMATION.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
±1/32	.X ±.1	±1°
RADII ±.032	.XX ±.02	
	.XXX ±.010	

SURFACE N/A

FINISH N/A

USED ON ASSEMBLY 15-15010

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN RB	4/30/14
CHECKED	
APPROVED	4/30/14

AEROCET INCORPORATED
Priest River, Idaho

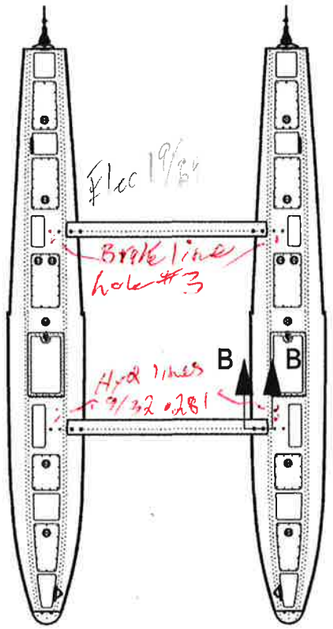
ELECTRIC AND HYDRAULIC INSTALLATION, AEROCET MODEL 1500 FLOATS, CC11 AIRCRAFT

SIZE B | DWG. NO. 15-15400 | REV. I/R

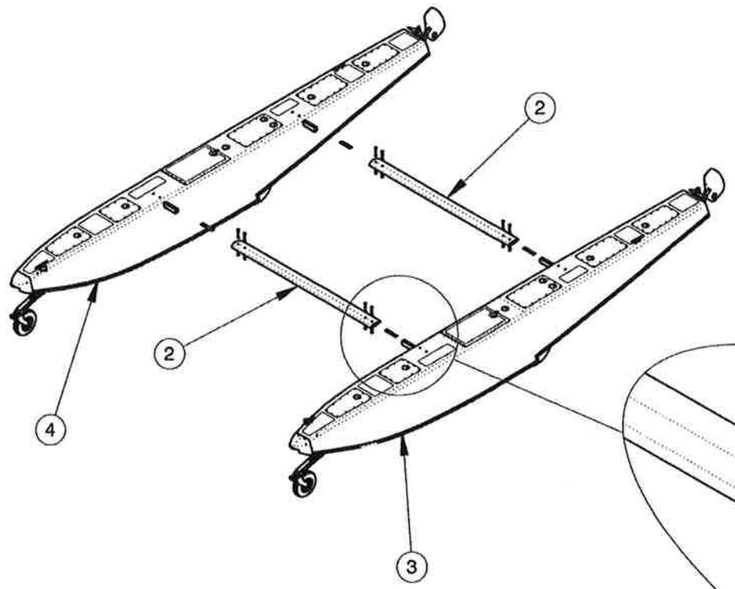
SCALE 1:32 | CAD FILE: 15\15-15400 | SHEET 1 OF 1

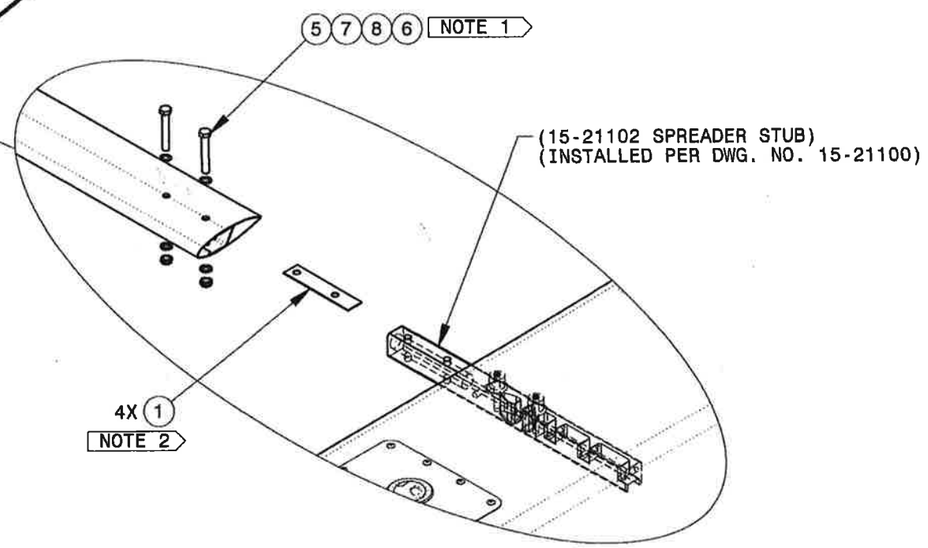
REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	RB	4/16/14	

Experimental Only

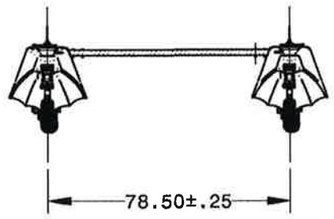


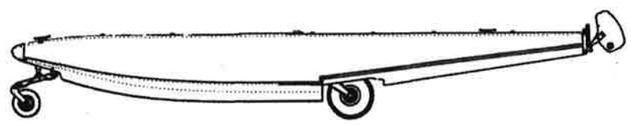
SECTION B-B
(SEE SHEET 2)





DETAIL A
SCALE 1 : 8





NOTES:

1. TORQUE NUTS 100-200IN-LBS.
2. SIZE AND INSTALLATION OF 15-20012 SHIM PER SHEET 2.

PARTS LIST FOR 15-20010 SPREADER INSTALLATION, AEROCET MODEL 1500 FLOATS

ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION	COMMENTS/ALTERNATES
1	4	PART	15-20012-40	SHIM, SPREADER BAR	OR -30, -20 AS REQ'D
2	2	PART	15-20015	SPREADER BAR, 1500 SERIES FLOATS	
3	1	ASSY	15-40000-L	FLOAT ASSEMLY, LHS, AEROCET MODEL 1500 FLOATS	
4	1	ASSY	15-40000-R	FLOAT ASSEMLY, RHS, AEROCET MODEL 1500 FLOATS	
5	8	HRDWR	AN6-23A	BOLT - MACHINE, AIRCRAFT	
6	8	HRDWR	MS21083N6	NUT, SELF LOCKING, LOW HEIGHT	
7	8	HRDWR	NAS1149D0616K	WASHER, FLAT	
8	8	HRDWR	NAS1149D0663K	WASHER, FLAT	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS N/A | DECIMALS N/A | ANGLES N/A
RADII N/A
SURFACE N/A
FINISH N/A
USED ON ASSEMBLY
SPECIFIC AIRCRAFT INSTALLATION

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN RB	2/27/13
CHECKED	
APPROVED	4/16/14

AEROCET INCORPORATED
Priest River, Idaho

SPREADER INSTALLATION, AEROCET MODEL 1500 FLOAT ASSEMBLY

SIZE B | DWG. NO. 15-20010 | REV. I/R
SCALE 1:48 | CAD FILE: 15\15-20010 | SHEET 1 OF 2

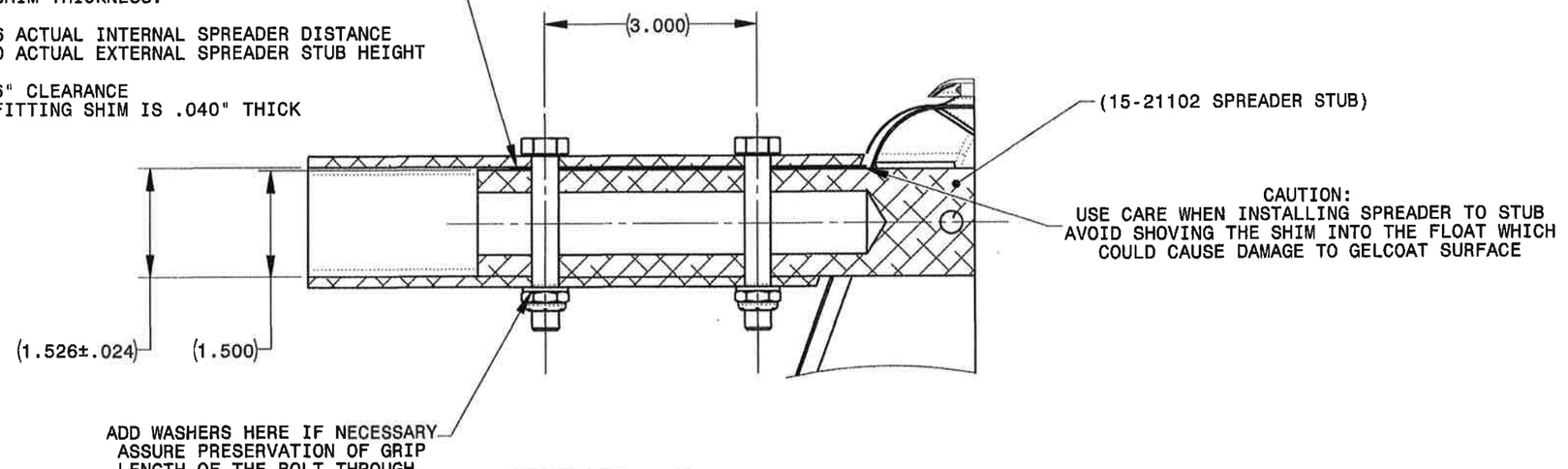
Experimental Only

15-20012-40 SHOWN (.04" THICKNESS) MINIMIZE GAP BY INSTALLING SHIM(S) THAT WILL FIT (SUCH AS -20 OR -30)
MEASURE THE DIFFERENCE BETWEEN 15-21102 SPREADER STUB & 15-20015 SPREADER BAR TO DETERMINE PROPER THICKNESS

TO DETERMINE SHIM THICKNESS:

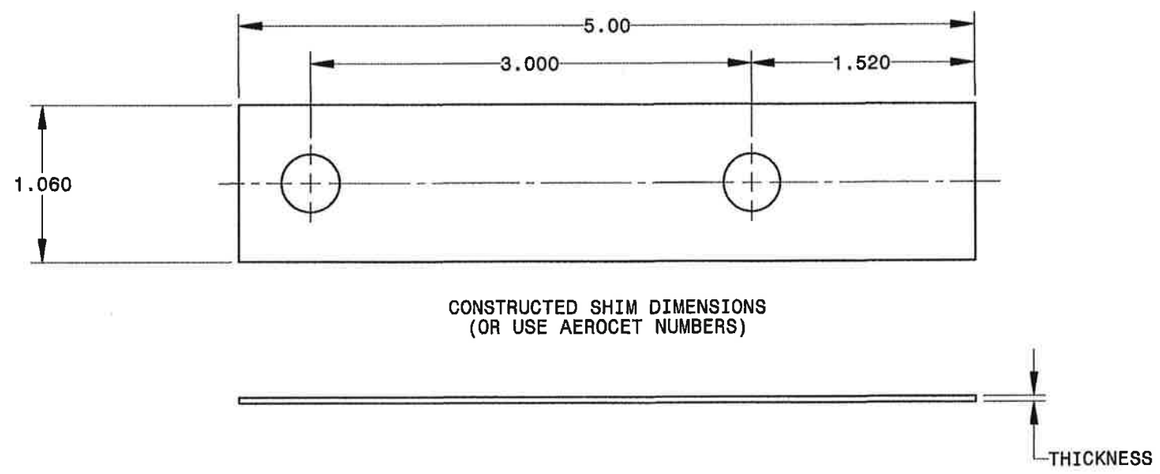
EXAMPLE: 1.546 ACTUAL INTERNAL SPREADER DISTANCE
1.500 ACTUAL EXTERNAL SPREADER STUB HEIGHT

=0.046" CLEARANCE
BEST FITTING SHIM IS .040" THICK



CAUTION:
USE CARE WHEN INSTALLING SPREADER TO STUB AVOID SHOVING THE SHIM INTO THE FLOAT WHICH COULD CAUSE DAMAGE TO GELCOAT SURFACE

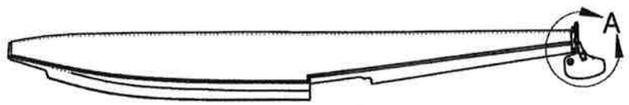
SECTION B-B
SCALE 1 : 2



CONSTRUCTED SHIM DIMENSIONS
(OR USE AEROCET NUMBERS)

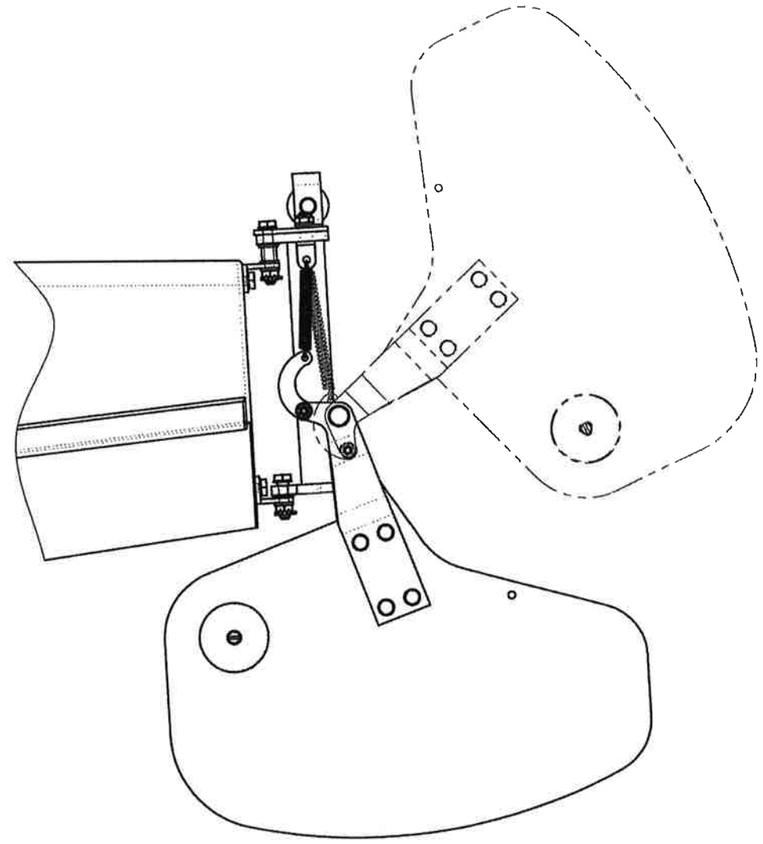
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ±1/32 · DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 · ANGLES ±1° RADII ±.032 SURFACE N/A FINISH N/A USED ON ASSEMBLY SPECIFIC AIRCRAFT INSTALLATION	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE. APPROVALS · DATE DRAWN RB 3/19/13 CHECKED APPROVED 4/16/14 REV APPV'L N/A N/A	AEROCET INCORPORATED Priest River, Idaho SPREADER INSTALLATION, AEROCET MODEL 1500 FLOAT ASSEMBLY SIZE B · DWG. NO. 15-20010 · REV. I/R SCALE 1:48 · CAD FILE: 15\15-20010 · SHEET 2 OF 2

REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	RB	10/3/13	



PARTS LIST FOR 15-24000 RUDDER ASSEMBLY
(PARTS ARE THE SAME, SOME ARE ORIENTED DIFFERENTLY PER NOTE 1)

ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION	COMMENTS
1	2	HRDWR	15-24003C6A	BOLT - MACHINE, STAINLESS (PER AEROCET SPECIFICATION)	ALT. USE AN3C6A
2	4	HRDWR	15-24003C7A	BOLT - MACHINE, STAINLESS (PER AEROCET SPECIFICATION)	ALT. USE AN3C7A
3	1	HRDWR	15-24003C10	BOLT - MACHINE, STAINLESS (PER AEROCET SPECIFICATION)	ALT. USE AN3C10
4	2	PART	15-24004	TILLER ATTACH BRACKET, AEROCET 1500 SERIES FLOATS	
5	2	PART	15-24006	RUDDER LINK	
6	2	PART	15-24007	RUDDER LINK BUSHING, AEROCET 1500 SERIES FLOATS	
7	1	PART	15-24009	PULLEY BUSHING, TILLER ASSEMBLY	
8	1	ASSY	15-24010	TILLER POST ASSEMBLY, AEROCET 1500 SERIES FLOATS	
9	1	PART	15-24014	TILLER BAR	
10	1	PART	15-24015	PULLEY BRACKET, TILLER ASSEMBLY	
11	1	PART	15-24016	RUDDER STOP, TILLER ASSEMBLY	
12	1	PART	15-24017	PULLEY, TILLER ASSEMBLY	
13	1	PART	15-24018	TILLER BUSHING, UPPER, AEROCET 1500 SERIES FLOATS	
14	1	PART	15-24019	TILLER BUSHING, LOWER, AEROCET 1500 SERIES FLOATS	
15	1	PART	15-24020	RUDDER BLADE, MODEL 1500 SERIES FLOATS	
16	1	PART	22-24007	BOLT - MACHINE, STAINLESS	ALT. USE AN5C30
17	4	PART	22-24154-4A	BOLT - MACHINE, STAINLESS	ALT. USE AN4C4A
18	1	PART	22-24154-10	BOLT - MACHINE, STAINLESS	ALT. USE AN4C10
19	1	PART	22-24154-14	BOLT - MACHINE, STAINLESS	ALT. USE AN4C14
20	2	PART	22-34023	WATER RUDDER RETRACT SPRING	
21	1	PART	22-34025-1	RUDDER YOKE, LHS, NO COUNTERSINKS	
22	1	PART	22-34025-2	RUDDER YOKE, RHS, NO COUNTERSINKS	
23	2	PART	22-34031	RUDDER YOKE BUSHING	
24	1	PART	56-10158	ZINC ANODE ASSEMBLY	OPTIONAL (REF NOTE 3)
25	2	HRDWR	AN43B-C6A	EYEBOLT	
26	1	HRDWR	AN310C3	NUT, PLAIN, CASTELLATED, AIRFRAME	
27	2	HRDWR	AN310C4	NUT, CASTELLATED, STAINLESS	
28	1	HRDWR	AN310C5	NUT, CASTELLATED, STAINLESS	
29	6	HRDWR	MS21083C3	NUT, SELF-LOCKING, LOW HEIGHT, STAINLESS	
30	6	HRDWR	MS21083C4	NUT, SELF-LOCKING, LOW-HEIGHT, STAINLESS	
31	1	HRDWR	MS24665-151	COTTER PIN	
32	3	HRDWR	MS24665-153	COTTER PIN	
33	1	HRDWR	MS24665-300	COTTER PIN	
34	13	HRDWR	NAS1149C0332R	WASHER, FLAT, STAINLESS	
35	1	HRDWR	NAS1149C0363R	WASHER, FLAT, STAINLESS	
36	10	HRDWR	NAS1149C0416R	WASHER, FLAT, STAINLESS	
37	4	HRDWR	NAS1149C0463R	WASHER, FLAT, STAINLESS	
38	2	HRDWR	NAS1149C0563R	WASHER, FLAT, STAINLESS	
39	1	HRDWR	TFI-0506-04	PLAIN BEARING, FLANGED (iglide P/N)	
40	3	HRDWR	TFI-0506-06	PLAIN BEARING, FLANGED (iglide P/N)	



DETAIL A
SCALE 1 : 4

*SEE NOTES ON SHEET 2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS N/A | DECIMALS N/A | ANGLES N/A
RADII N/A
SURFACE N/A
FINISH N/A
USED ON ASSEMBLY 15-21000

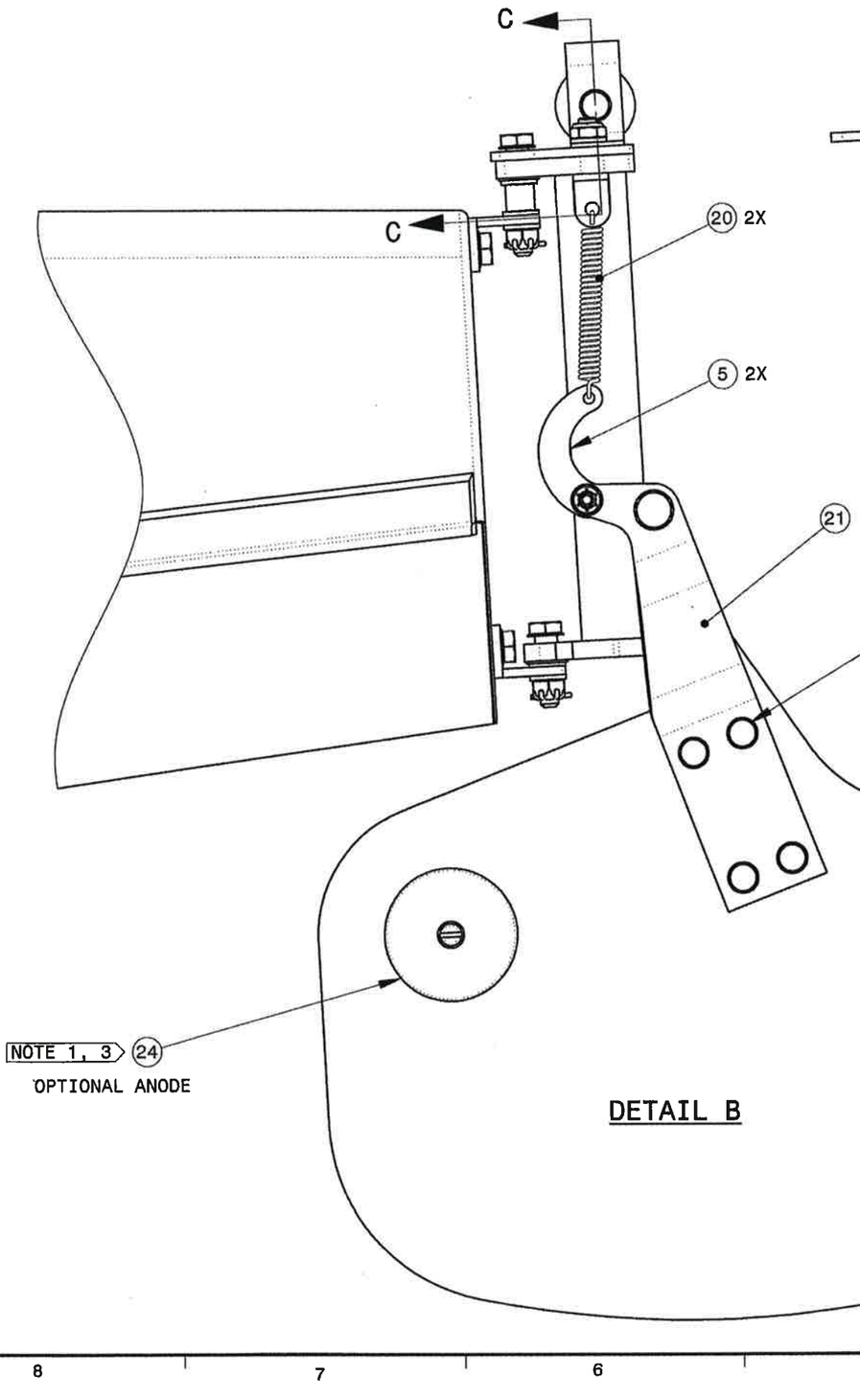
CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN RB	7/19/12
CHECKED	
APPROVED	10/3/13

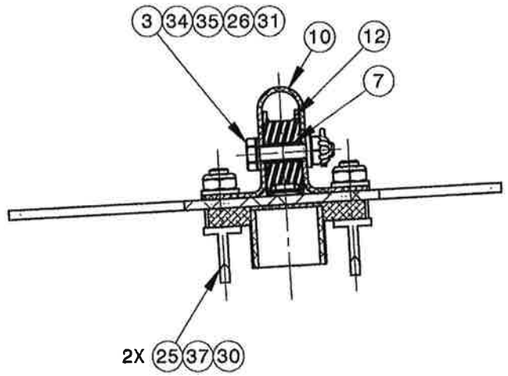
AEROCET INCORPORATED
Priest River, Idaho

RUDDER ASSEMBLY, AEROCET 1500 SERIES FLOAT

SIZE B | DWG. NO. 15-24000 | REV. I/R
SCALE 1:48 | CAD FILE: 15\15-24000 | SHEET 1 OF 5



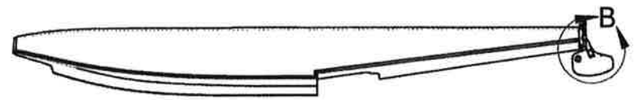
DETAIL B



SECTION C-C

NOTE 1, 2

(FASTENER ORIENTATION SHOWN FOR LHS INSTALLATION - HEADS TO THE OUTBOARD. APPEARANCES ONLY)



SCALE 1: 48

NOTES:

1. 15-24000-L, RUDDER ASSEMBLY, LHS SHOWN.
   15-24000-R, RUDDER ASSEMBLY, RHS SIMILAR, WITH ATTACHMENT HARDWARE BEING ORIENTED HEAD-SIDE TO THE OUTBOARD SIDE (FOR APPEARANCES ONLY).

   15-24014 TILLER BAR IS INSTALLED WITH SHORT END TO THE INBOARD SIDE.

2. PREFERRED FASTENER MATERIAL:
   TYPE 316 STAINLESS STEEL PER ASTM F593
   ACCEPTABLE ALTERNATE MATERIAL:
   18-8 OR TYPE 304 STAINLESS STEEL PER ASTM F593

   ACCEPTABLE ALTERNATE FASTENER SPECIFICATIONS:
   HEX BOLTS -- ANSI/ASME B18.2.1
   WASHERS -- ANSI/ASME B18.22.1
   ELASTIC STOP NUTS -- IFI 100/107

   (IT IS AEROCET'S EXPERIENCE THAT 400 SERIES CRES USED WITH AN BOLTS DOES STAIN, THOUGH IT MAY NOT CORRODE AS MUCH AS STEEL. NUTS AND SOME OTHER HARDWARE ARE SOMETIMES AVAILABLE IN 300 SERIES AND ARE MUCH BETTER FOR USE HERE, WITH THE WATER RUDDER ASSEMBLIES.)

3. 56-10158 (ZN CR1)(1 7/8") ZINC ATTACHMENT PROVIDED AS OPTION ONLY, PER CUSTOMER REQUEST.

   TO INSTALL ANODE:

   A) DRILL EXISTING HOLE ∅.194/.206 THRU.

   B) ABRADE FINISH OF THE RUDDER BLADE TO BARE METAL BENEATH ZINC ANODE ONLY.

   C) INSTALL HARDWARE TO HAND TORQUE, ASSURING BOND BETWEEN ANODE THE RUDDER BLADE.

   D) TRIM EXCESS FASTENER LENGTH TO SUIT. REMOVE BURRS AND SHARP EDGES.

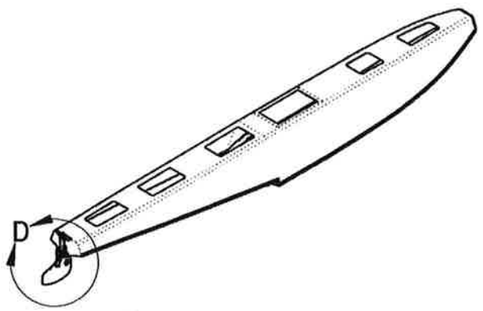
4. ALL FASTENERS THAT PENETRATE FLOAT HULL SHALL BE SEALED WITH SIKA-FLEX 292 OR EQUIVALENT ONE-PART URETHANE ADHESIVE. (SUCH AS 3M 5200) DO NOT USE SILICONE.

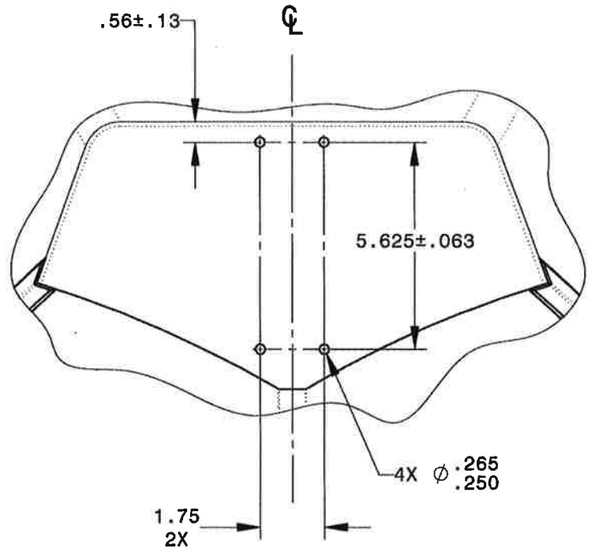
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS N/A · DECIMALS N/A · ANGLES N/A RADII N/A SURFACE N/A FINISH N/A USED ON ASSEMBLY 15-21000	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	APPROVALS	DATE
		DRAWN RB	8/6/13
		CHECKED	
		APPROVED	10/3/13
		REV APPV'L N/A	N/A

AEROCET INCORPORATED
Priest River, Idaho

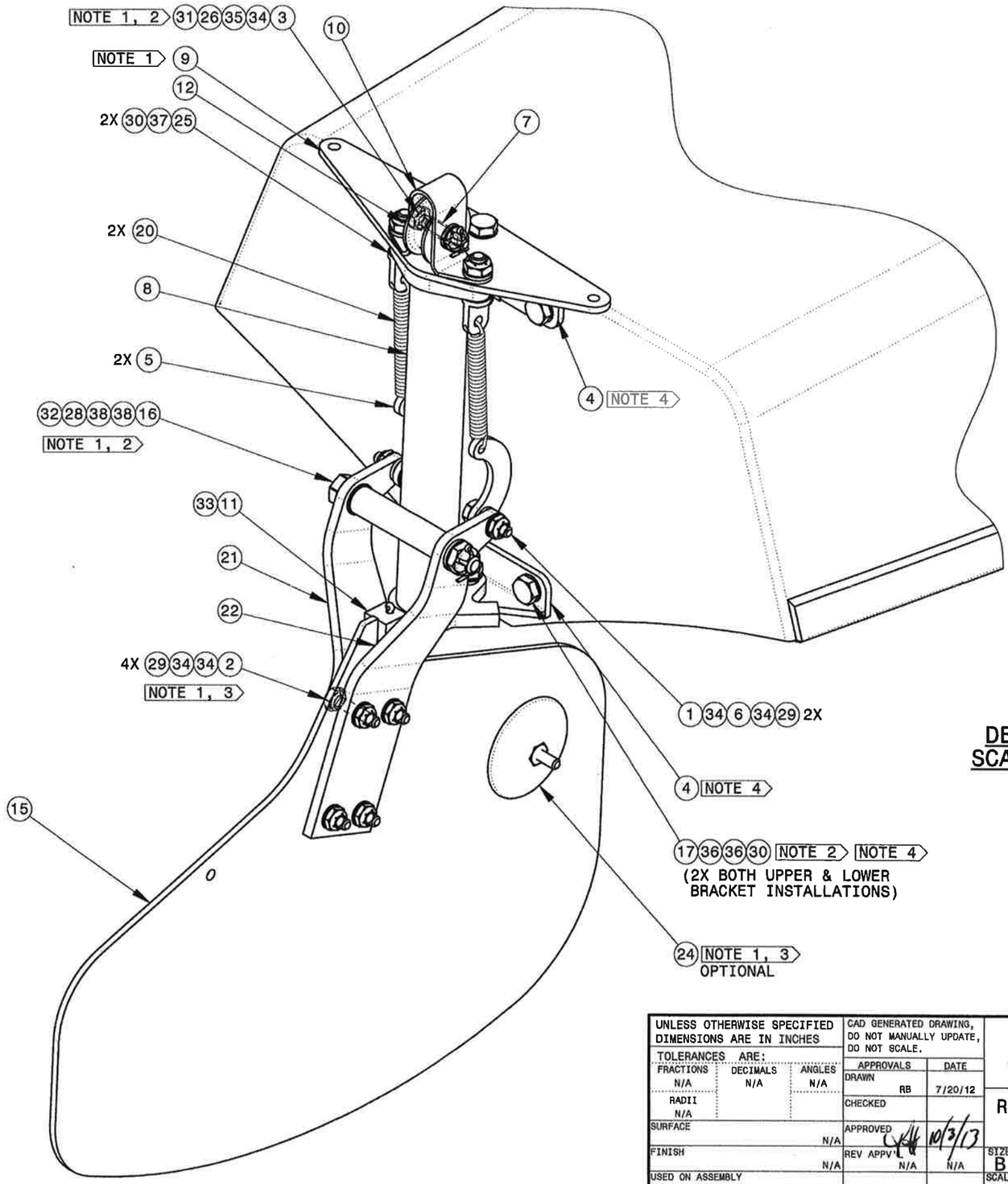
RUDDER ASSEMBLY, AEROCET 1500 SERIES FLOAT

SIZE B · DWG. NO. 15-24000 · REV. I/R
SCALE 1:2 · CAD FILE: 15\15-24000 · SHEET 2 OF 5





REAR VIEW
NORMAL TO TRANSOM
SHOWING MOUNTING HOLES



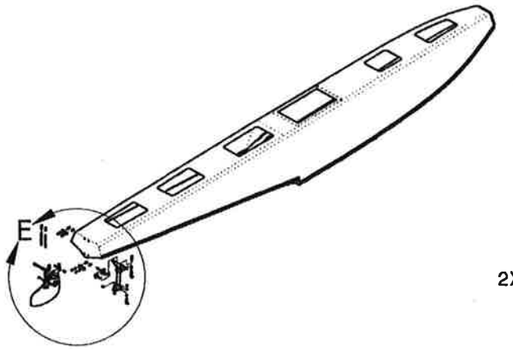
DETAIL D
SCALE 1 : 2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.
TOLERANCES ARE:			APPROVALS / DATE
FRACTIONS N/A	DECIMALS N/A	ANGLES N/A	DRAWN RB 7/20/12
RADII N/A			CHECKED
SURFACE N/A			APPROVED 10/3/13
FINISH N/A			REV APPV'L N/A N/A
USED ON ASSEMBLY 15-21000			

AEROCET INCORPORATED
Priest River, Idaho

RUDDER ASSEMBLY, AEROCET 1500 SERIES FLOAT

SIZE	DWG. NO.	REV.
B	15-24000	I/R
SCALE 1:48	CAD FILE: 15\15-24000	SHEET 3 OF 5



(30)(36)(36)(17)
(2X BOTH UPPER & LOWER BRACKET INSTALLATIONS)

(4)

2X (30)(37)(25)

2X (20)

MS24665-153
(26)(35)(34)(3)

(10)

NOTE 1 (9)

(19)(36)(40)(13)(37)(27)
MS24665-153

NOTE 1, 2
MS24665-153 (28)(38)(38)(16)

2X (23)

(1)(34)(6)(34)(29) 2X

(21)

(5) 2X

(22)

4X (29)(34)(34)(2)
NOTE 1, 3

Hole
Small

(15)

(17)(36)(36)(30)
(2X BOTH UPPER & LOWER BRACKET INSTALLATIONS)
NOTE 2 NOTE 4

(4)

(12)

(7)

(8)

(18)(36)(39)(14)(37)(27) MS24665-153

MS24665-300

(11)

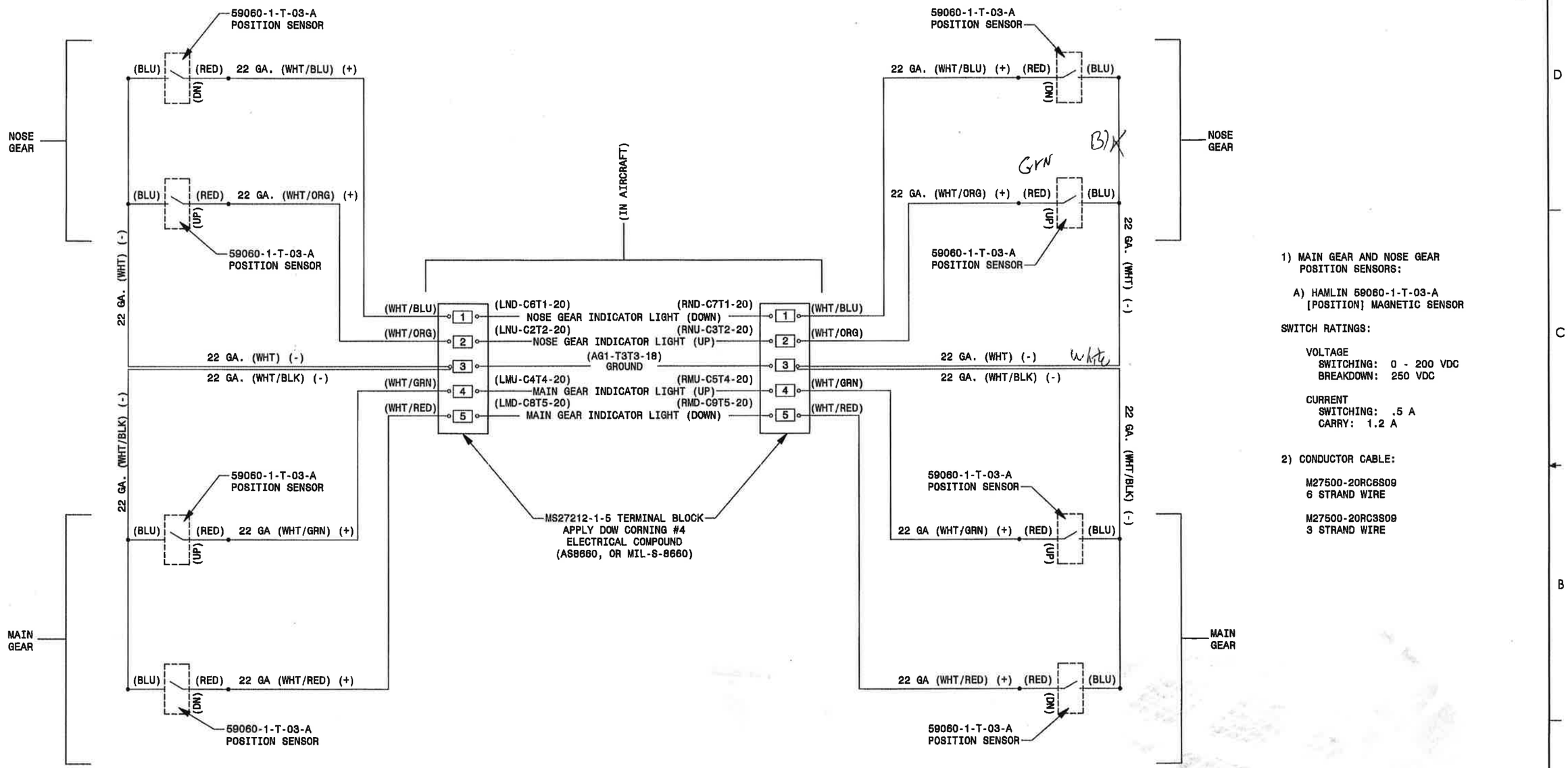
(24) NOTE 1, 3
OPTIONAL

2X (40)

DETAIL E
SCALE 1 : 4

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS N/A · DECIMALS N/A · ANGLES N/A RADII N/A SURFACE N/A FINISH N/A USED ON ASSEMBLY 15-21000	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE. APPROVALS · DATE DRAWN RB 7/20/12 CHECKED APPROVED 10/3/12 REV APPV'L N/A N/A	AEROCET INCORPORATED Priest River, Idaho RUDDER ASSEMBLY, AEROCET 1500 SERIES FLOAT SIZE B · DWG. NO. 15-24000 · REV. I/R SCALE 1:48 · CAD FILE: 15\15-24000 · SHEET 4 OF 5

REVISIONS					
REV.	SHT. NO.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	1	INITIAL RELEASE	BT	1/17/2014	



LEFT FLOAT ASS'Y

RIGHT FLOAT ASS'Y

1) MAIN GEAR AND NOSE GEAR POSITION SENSORS:

A) HAMLIN 59060-1-T-03-A [POSITION] MAGNETIC SENSOR

SWITCH RATINGS:

VOLTAGE
SWITCHING: 0 - 200 VDC
BREAKDOWN: 250 VDC

CURRENT
SWITCHING: .5 A
CARRY: 1.2 A

2) CONDUCTOR CABLE:

M27500-20RC6S09
6 STRAND WIRE

M27500-20RC3S09
3 STRAND WIRE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS N/A DECIMALS N/A ANGLES N/A
SURFACE N/A
FINISH N/A
MATERIAL N/A
USED ON ASSEMBLY N/A

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

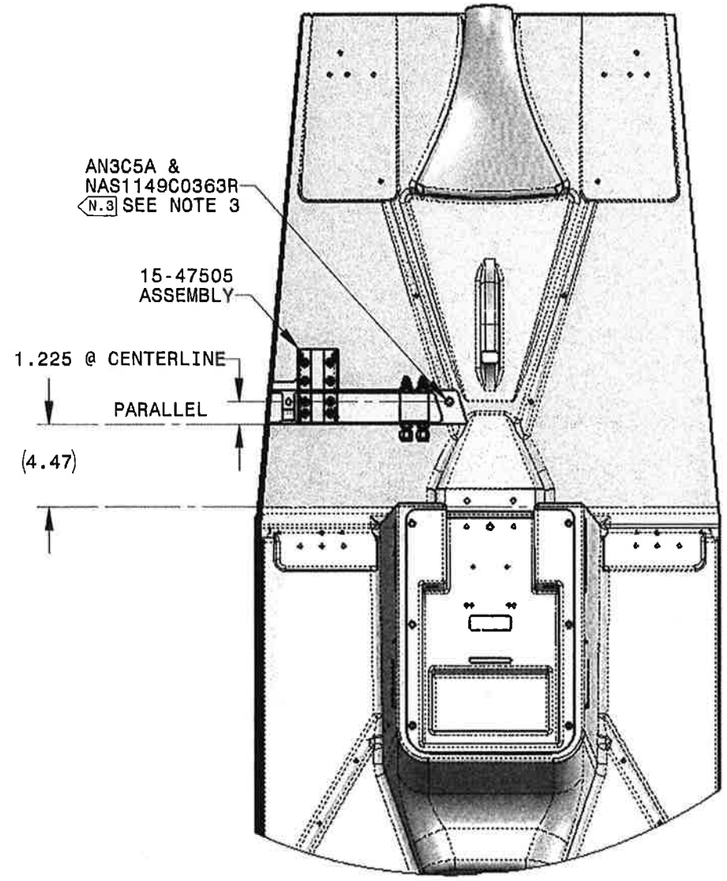
APPROVALS		DATE
DRAWN	BT	7/11/2013
CHECKED		
APPROVED		1/17/14

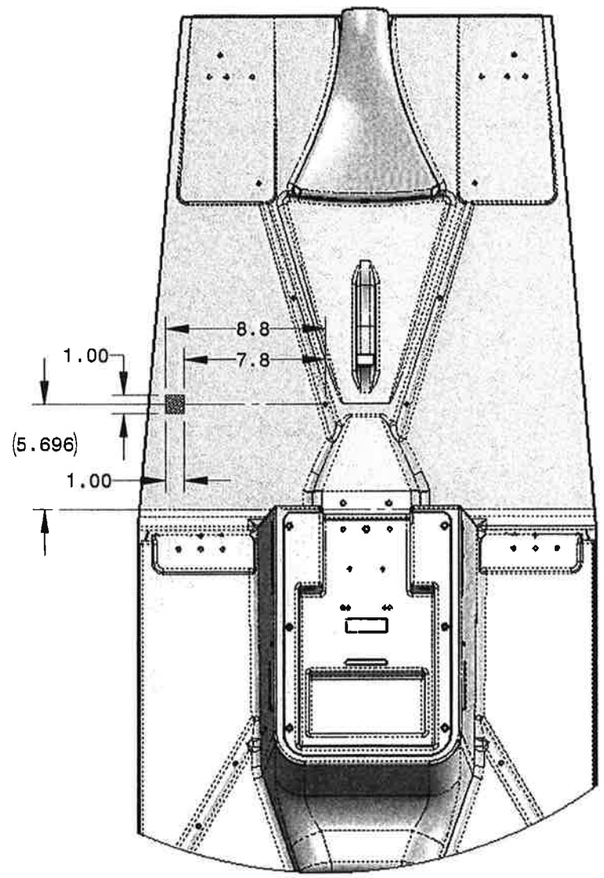
AEROCET INCORPORATED
Priest River, Idaho

FLOAT WIRING SCHEMATIC

SIZE B | DWG. NO. 15-46010 | REV. I/R
SCALE 1:1 | CAD FILE: 15/15-46010 | SHEET 1 OF 1

REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	BT	4/18/14	





1) REMOVE EXISTING SCREW ON RAISED FLOOR RIB WHERE MOUNTING PLATE ASSEMBLY IS TO BE POSITIONED.

2) LOCATE MOUNTING PLATE ASSEMBLY ON FLOORBOARD AS SHOWN, PARALLEL TO LEADING EDGE OF PEDESTAL.

N.3 3) INSTALL BOLT AND FLAT WASHER THRU SLOTTED HOLE AND POSITION PLATE ASSEMBLY AGAINST SIDE WALL BEFORE SECURING. FOR REFERENCE ONLY.

4) SCRIBE LINE WORK ON FLOORBOARD AS SHOWN OR USE DIMPLE PATTERN ON FLOORBOARD FOR LAYOUT.

5) SCRIBE A SQUARE PATTERN, 1.00 X 1.00, CENTERED ON CENTERLINE PREVIOUSLY ESTABLISHED.

USING A DREMEL TOOL OR SUITABLE ROTARY FILE, CUT-OUT THE 1.00 X 1.00 PATTERN. **TAKE CARE TO NOT DAMAGE TUBING OR OTHER STRUCTURE BENEATH THE FLOORBOARD.**

MOUNTING PLATE INSTALLATION

NOTE: THIS BOM CONTINUES ON SHEET 2.

ITEM NO.	QTY.	TYPE	PART NUMBER	DESCRIPTION
1	1	ASSY	15-47505	MOUNTING PLATE, MAIN, HYDRAULIC HAND PUMP, ASSEMBLY
2	1	PART	15-47526	MOUNTING CLAMP, .63 TUBE, ASSEMBLY, HYD. HAND PUMP
3	1	HRDWR	AN3C5A	BOLT - MACHINE, AIRCRAFT, STAINLESS
4	1	HRDWR	AN316C5R	JAM NUT, RIGHT HAND THREADS
5	1	HRDWR	MS21083N5	NUT, SELF-LOCKING, LOW HEIGHT
6	1	HRDWR	NAS1149C0363R	WASHER, FLAT, STAINLESS
7	1	HRDWR	NAS1149C0532R	WASHER, FLAT, STAINLESS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
±1/32	.X ±.1	±1°
RADII ±.032	.XX ±.02	
	.XXX ±.010	

SURFACE NA

FINISH NA

USED ON ASSEMBLY NA

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

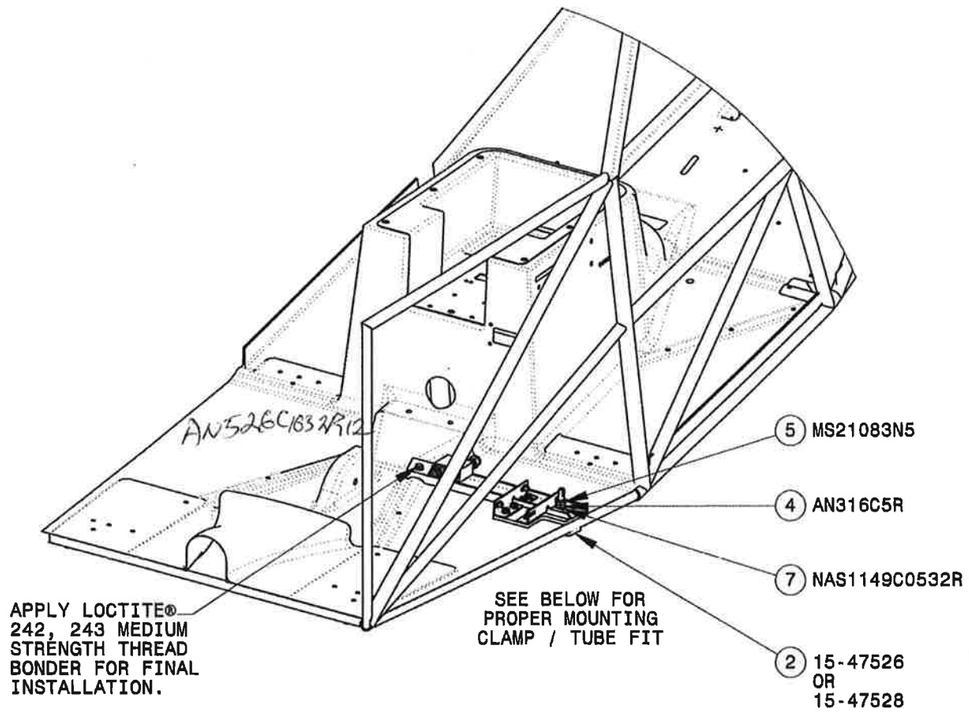
APPROVALS	DATE
DRAWN BT	3/13/14
CHECKED	
APPROVED	4/18/14

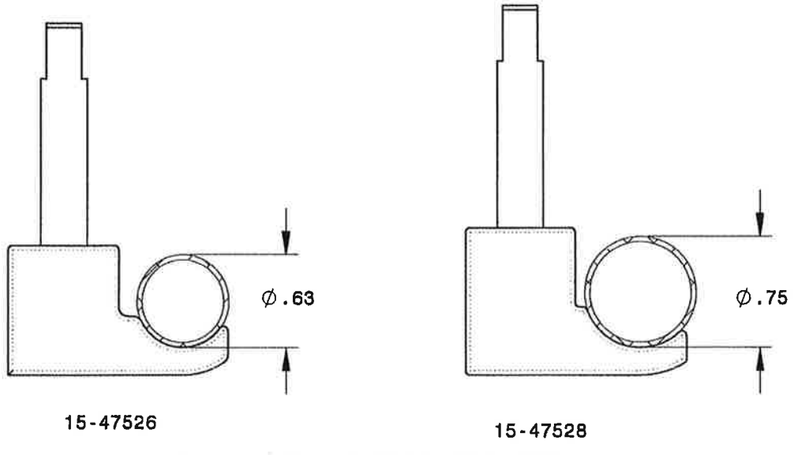
AEROCET INCORPORATED
Priest River, Idaho

HYDRAULIC HAND PUMP, INSTALLATION, AEROCET MODEL 1500 FLOATS

SIZE B | DWG. NO. 15-47500 | REV. I/R

SCALE 1:48 | CAD FILE: 15\15-47500 | SHEET 1 OF 4





MOUNTING CLAMPS SHOWN PER TUBE SIZE

6) SECURE THE MOUNTING PLATE ASSEMBLY TO FLOORBOARD AS FOLLOWS:

a. TWO SIZES OF TUBE STRUCTURE EXISTS AT THE ATTACHMENT LOCATION. DETERMINE IF TUBE IS .63 OR .75 DIAMETER, AND USE THE CORRECT MOUNTING CLAMP ASSEMBLY AS LISTED.

FOR Ø.63 TUBE, USE 15-47526, FOR Ø.75 TUBE USE 15-47528.

b. MANEUVER THE APPROPRIATE MOUNTING CLAMP THRU THE HOLE CUT-OUT, AND POSITION THE CLAMP RADIUS UNDER THE TUBE AS SHOWN. WHILE PULLING THE CLAMP STUD UP, POSITION THE MOUNTING PLATE OVER THE STUD AND IN APPROXIMATE POSITION ON THE FLOORBOARD. A PUTTY KNIFE OR TRICEPS MAY BE NECESSARY TO HOLD CLAMP STUD IN POSITION.

INSTALL FLAT WASHER AND JAM NUT ON MOUNTING CLAMP STUD, AND TIGHTEN ONLY TO REMOVE SLACK.
INSTALL FLAT WASHER AND BOLT TO SLOTTED HOLE ON OPPOSITE SIDE OF PLATE ALLOWING FOR CLEARANCE TO ADJUST PLATE FOR FINAL POSITIONING.

POSITION THE PLATE SO THE MOUNTING CLAMP IS SQUARELY ON THE TUBE FRAME AND THE STUD IS PROTRUDING STRAIGHT AND VERTICAL THRU THE MOUNTING PLATE. TIGHTEN BOTH THE JAM NUT AND THE BOLT UNTIL SECURE. **TAKE CARE NOT TO OVER TIGHTEN JAM NUT, DAMAGING TUBE.**

COMPLETE ASSEMBLY BY SECURING CLAMP MOUNT WITH SELF LOCKING NUT.

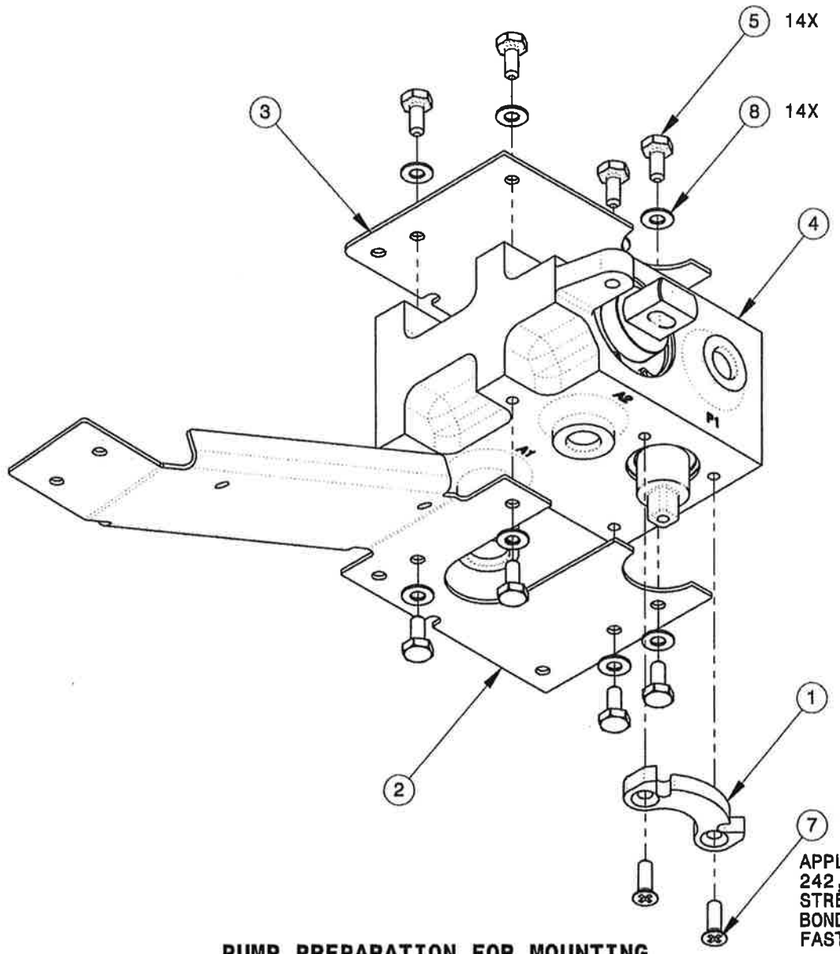
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	
TOLERANCES ARE:		APPROVALS	DATE
FRACTIONS ±1/32	DECIMALS .X ±.1 .XX ±.02 .XXX ±.010	DRAWN BT	4/16/14
ANGLES ±1°		CHECKED	
RADII ±.032		APPROVED	4/18/14
SURFACE NA			
FINISH NA			
USED ON ASSEMBLY NA			

AEROCET INCORPORATED
Priest River, Idaho

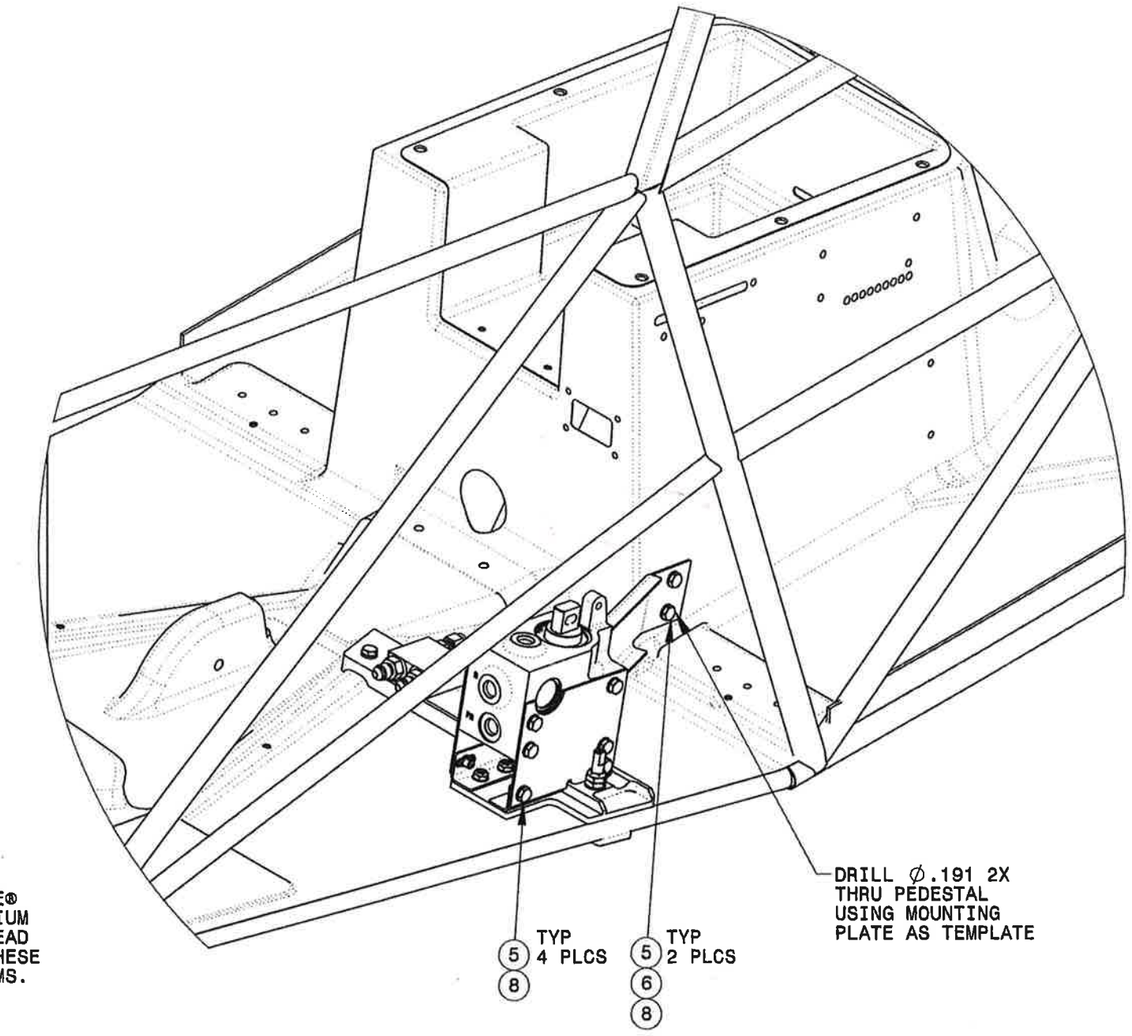
HYDRAULIC HAND PUMP, INSTALLATION, AEROCET MODEL 1500 FLOATS

SIZE	DWG. NO.	REV.
B	15-47500	I/R

SCALE	CAD FILE:	SHEET
1:12	15\15-47500	SHEET 2 OF 4



PUMP PREPARATION FOR MOUNTING



PUMP INSTALLATION

BOM TABLE				
ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION
1	1	PART	15-47195	DETENT, INDEX STOP, HYDRAULIC HAND PUMP
2	1	PART	15-47521	MOUNTING PLATE, RIGHT SIDE, HYDRAULIC HAND PUMP
3	1	PART	15-47522	MOUNTING PLATE, LEFT SIDE, HYDRAULIC HAND PUMP
4	1	ASSY	66-47050	HYDRAULIC HAND PUMP. CORE BLOCK ASSEMBLY
5	14	HRDWR	AN3-3A 4	BOLT - MACHINE, AIRCRAFT
6	2	HRDWR	MS21044C3	NUT, SELF-LOCKING, STAINLESS, REGULAR HEIGHT
7	2	HRDWR	MS24694C51	MACHINE SCREW, FLAT COUNTERSUNK HEAD, 100°
8	14	HRDWR	NAS1149C0332R	WASHER, FLAT, STAINLESS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ±1/32 | DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 | ANGLES ±1°
RADII ±.032
SURFACE NA
FINISH NA
USED ON ASSEMBLY NA

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN BT	3/13/14
CHECKED	
APPROVED	4/18/14

AEROCET INCORPORATED
Priest River, Idaho

HYDRAULIC HAND PUMP, INSTALLATION, AEROCET MODEL 1500 FLOATS

SIZE B | DWG. NO. 15-47500 | REV. I/R
SCALE 1:4 | CAD FILE: 15\15-47500 | SHEET 3 OF 4

NOTES:

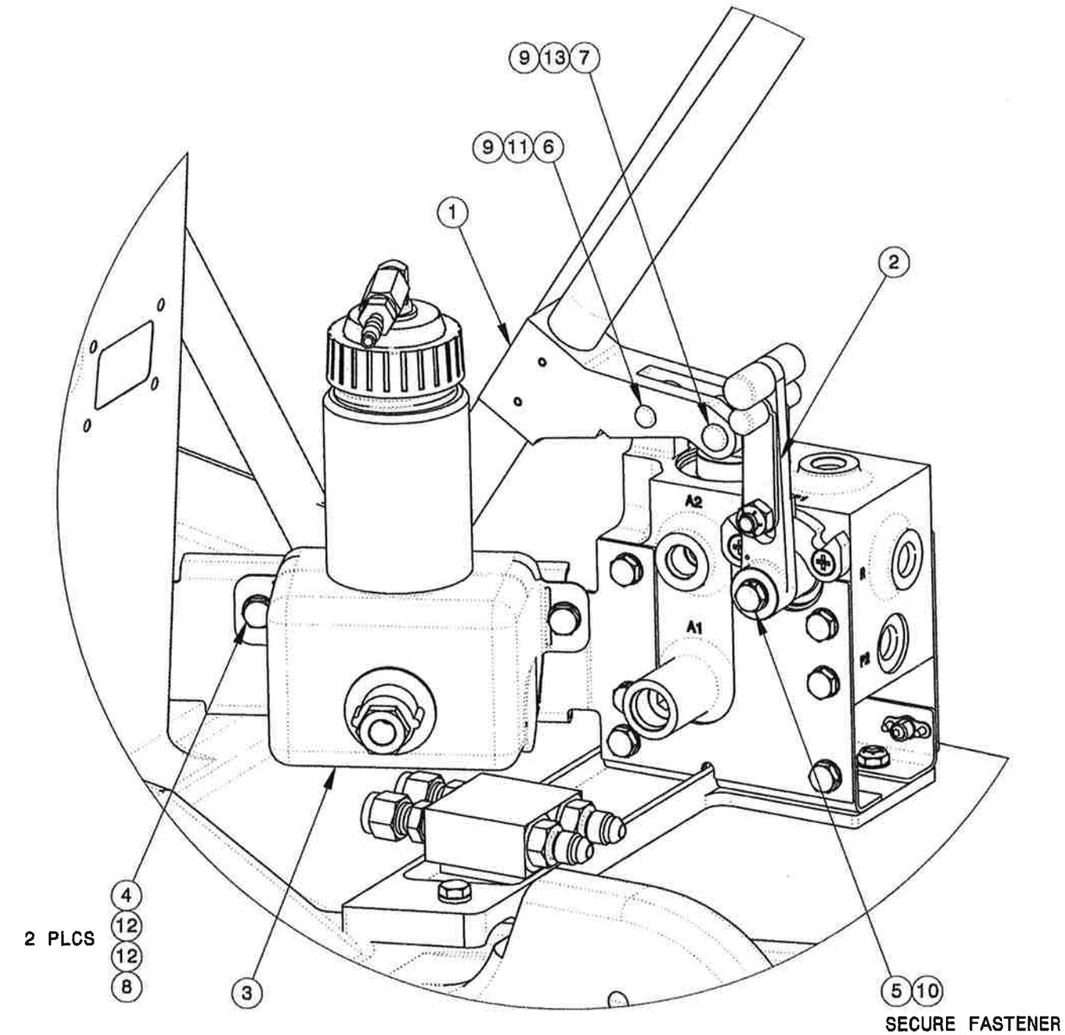
1) INSTALL THE DIRECTIONAL CONTROL HANDLE IN THE UP POSITION AS SHOWN. ASSURE THE HANDLE TRAVELS 90° AND REACHES THE DETENT STOPS IN BOTH DIRECTIONS.

   COMPLETE INSTALLATION BY WRAPPING FASTENER AND CONTROL ARM WITH SAFETY WIRE, HOLES PROVIDED.

2) ALLOW THE FASTENERS HOLDING THE HYDRAULIC RESERVOIR TANK, TO REMAIN LOOSE UNTIL INSTALLING THE FEED TUBE FROM THE PUMP, (FOLLOWING INSTALLATION STEP).

   ALLOWABLE CLEARANCE IN THE TANK MOUNTING HOLES WILL REDUCE STRAIN ON TANK FITTING WHEN TIGHTENED TOGETHER WITH FEED TUBE ASSEMBLY.

   NOTE: THE 3" EXTENTION TUBE ON TOP OF THE HYDRAULIC RESERVOIR TANK IS PERMANENTLY FIXED. ACCESS THE TANK ONLY THROUGH THE BLACK CAP ON TOP.



TANK AND HANDLE INSTALLATION

ITEM NO.	QTY.	TYPE	PART NUMBER	DESCRIPTION
1	1	ASSY	15-47129	MAIN PUMP HANDLE, ASSEMBLY, HYDRAULIC HAND PUMP.
2	1	ASSY	15-47189	DIRECTIONAL CONTROL HANDLE, HYDRAULIC HAND PUMP
3	1	ASSY	15-47400	HYDRAULIC RESERVOUR TANK, ASSEMBLY
4	2	HRDWR	AN3-5A ~~4A~~	BOLT - MACHINE, AIRCRAFT
5	1	HRDWR	AN3H3A	BOLT - MACHINE. AIRCRAFT
6	1	HRDWR	MS20392-2C33	CLEVIS PIN
7	1	HRDWR	MS20392-3C33	CLEVIS PIN
8	2	HRDWR	MS21044N3	NUT, SELF-LOCKING, REGULAR HEIGHT
9	2	HRDWR	MS24665-132	COTTER PIN
10	1	HRDWR	NAS1149C0332R	WASHER, FLAT, STAINLESS
11	1	HRDWR	NAS1149D0316K	WASHER, FLAT
12	4	PART	NAS1149D0332J	WASHER, FLAT
13	1	HRDWR	NAS1149D0416K	WASHER, FLAT

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ±1/32 | DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 | ANGLES ±1°
RADII ±.032
SURFACE NA
FINISH NA
USED ON ASSEMBLY NA

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

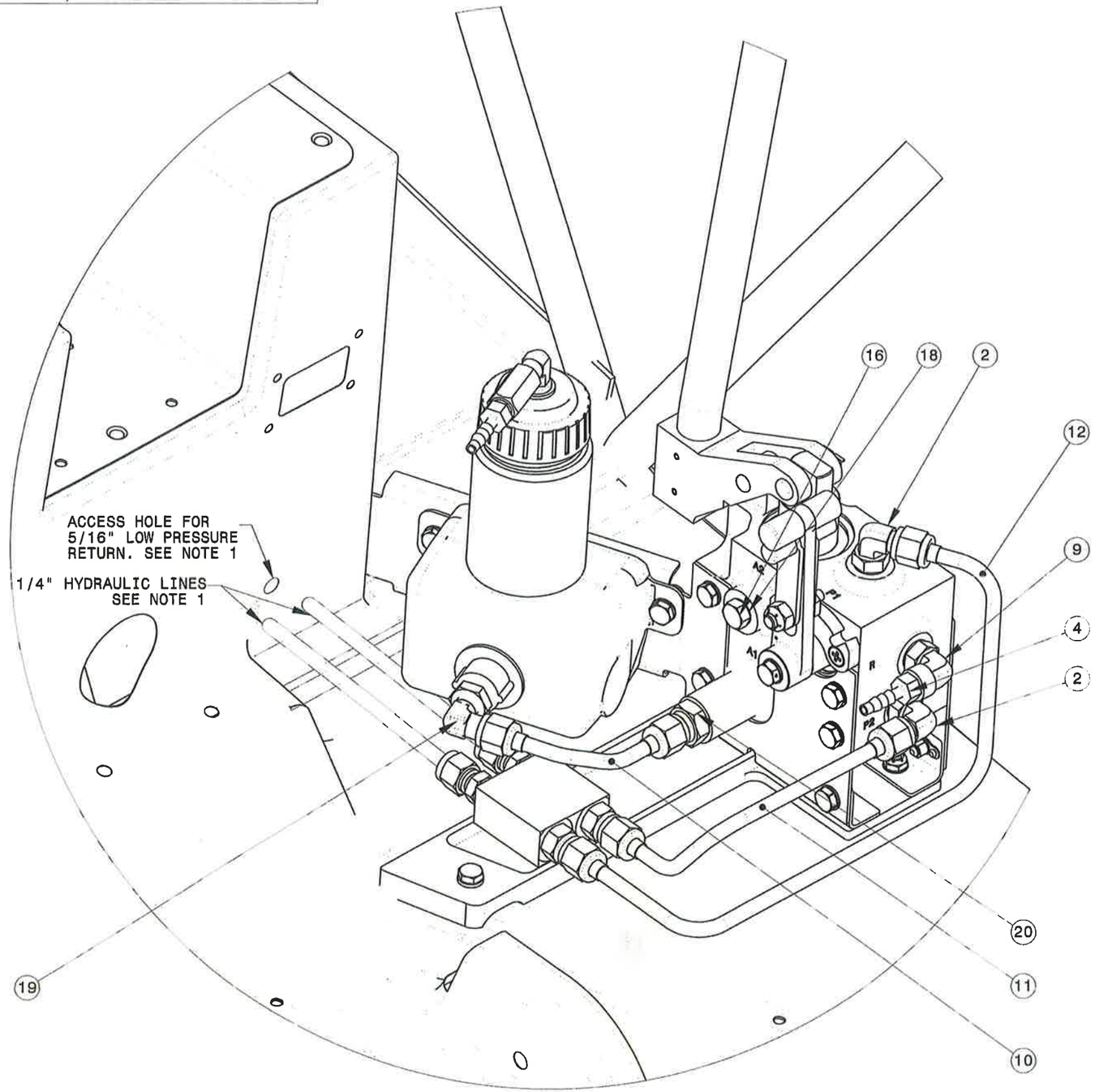
APPROVALS	DATE
DRAWN BT	3/13/14
CHECKED	
APPROVED	4/18/14

AEROCET INCORPORATED
Priest River, Idaho

HYDRAULIC HAND PUMP, INSTALLATION, AEROCET MODEL 1500 FLOATS

SIZE B | DWG. NO. 15-47500 | REV. I/R
SCALE 1:48 | CAD FILE: 15\15-47500 | SHEET 4 OF 4

REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	BT	4/28/14	



NOTES:

1) DRILL THREE CLEARANCE HOLES THRU PEDESTAL WALL TO ALLOW TUBE ACCESS INTO LOWER FUSELAGE ACCESS SPACE.

   a. SIZE HOLES TO ACCEPT 2 EACH MS35489-6 GROMMETS OR EQUIVALENT FOR 1/4" NYLON TUBING, (HYDRAULIC PRESSURE LINES).

   b. SIZE ONE HOLE TO ACCEPT MS35489-9 GROMMET OR EQUIVALENT FOR 5/16" VINYL, FUEL AND OIL TUBING, (LOW PRESSURE RETURN LINE).

   c. ALIGN THE TWO 1/4" TUBE HOLES THRU THE PEDESTAL, WITH THE TUBE PORTS ON THE MOUNTING MANIFOLD, LOCATED JUST BENEATH THE RESERVOIR TANK. FACING AFT.

   d. LOCATE THE 5/16" TUBE HOLE THRU THE PEDESTAL, FOR THE LOW PRESSURE RETURN LINE, (NOT SHOWN) JUST ABOVE TWO 1/4" PRESSURE LINE HOLES, PREVIOUSLY LOCATED.

2) ATTACH AND TIGHTEN THE O-RING BOSS TUBE FITTINGS AND TUBE ASSEMBLIES IN APPROXIMATE ORIENTATIONS SHOWN.

   TIGHTEN RESERVOIR TANK FASTENERS TOGETHER WITH THE MATING TUBE ASSEMBLY, TO HELP ALIGN COMPONENTS AND REDUCE TENSION.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ARE:

FRACTIONS	DECIMALS	ANGLES
±1/32	.X ±.1	±1°
RADII ±.032	.XX ±.02	
	.XXX ±.010	

SURFACE NA

FINISH NA

USED ON ASSEMBLY

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

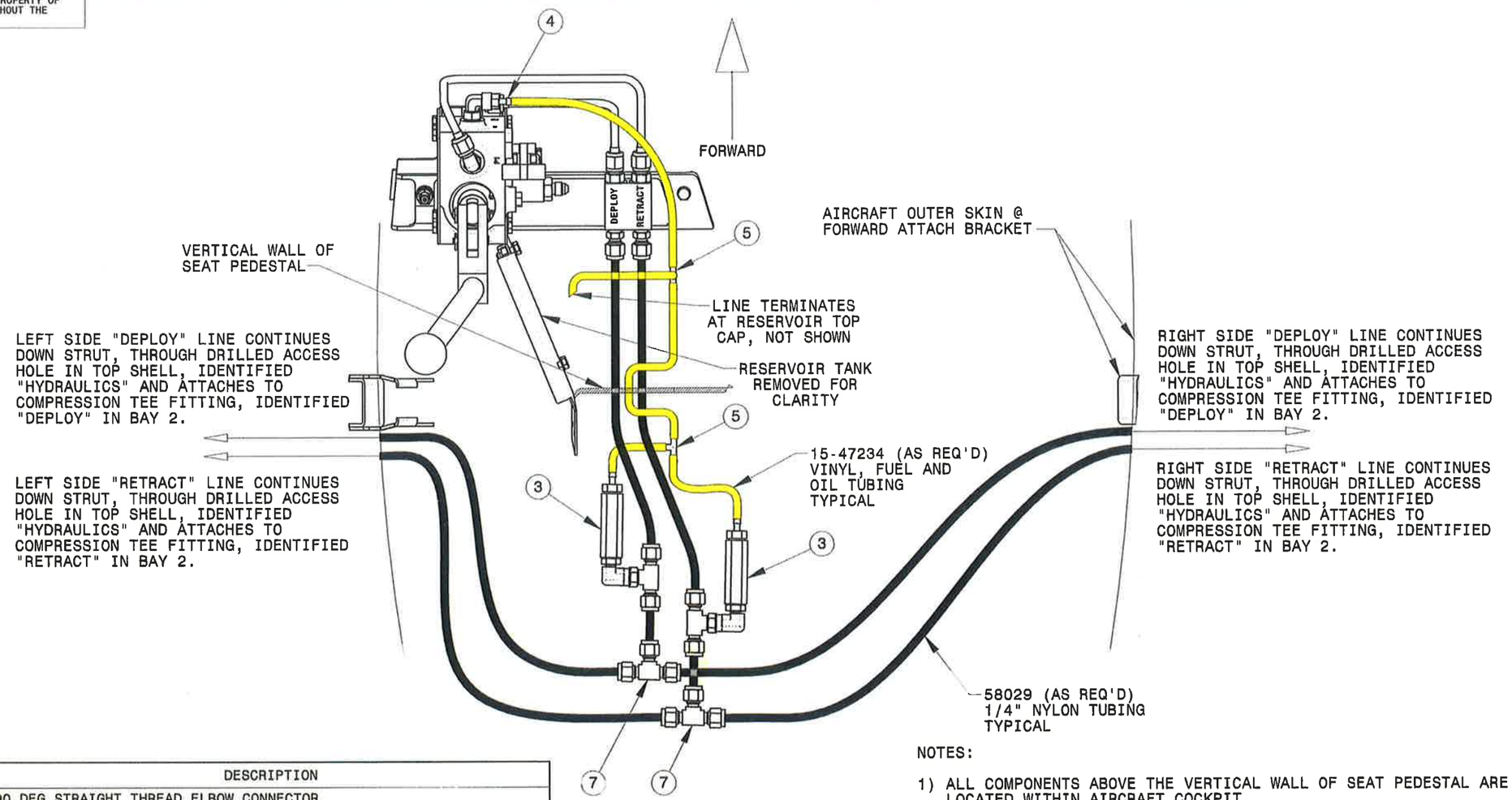
APPROVALS	DATE
DRAWN BT	4/25/14
CHECKED	
APPROVED	4/28/14

AEROCET INCORPORATED
Priest River, Idaho

IN-AIRCRAFT HYDRAULIC LINE INSTALLATION

SIZE	DWG. NO.	REV.
B	15-47502	I/R

SCALE 1:48 | CAD FILE: 15\15-47502 | SHEET 1 OF 4



ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION
2	2	HRDWR	4 C50X-D	90 DEG STRAIGHT THREAD ELBOW CONNECTOR
3	2	ASSY	15-47230	PRESSURE RELIEF, VALVE, ASSEMBLY
4	1	PART	15-47232	3/16 HOSE BARB X 1/8-27 NPT MALE, NYLON
5	2	PART	15-47233	3/16 HOSE BARB TEE, NYLON
6	1	PART	15-47234	3/16 I.D X 3/16 O.D. X 1/16 WALL, VINYL, FUEL AND OIL TUBING
7	2	PART	15-47250	1/4 TUBE, TEE
8	2	PART	15-47254	3/16 TUBE 1/8 NPT, 90 ELBOW
9	1	HRDWR	15-47260	90 DEG STRAIGHT THREAD ADAPTER, INTERNAL PIPE / SAE O-RING BOSS
10	1	ASSY	15-47430	HYDRAULIC LINE, RESERVOIR, LINE 1
11	1	ASSY	15-47435	HYDRAULIC LINE, PRESSURE, LINE 1
12	1	ASSY	15-47440	HYDRAULIC LINE, PRESSURE, LINE 2
13	1	BULK	58028	.110 ID X 3/16 OD TYPE NYLON TUBING, AS REQUIRED
14	1	BULK	58029	.150 ID X 1/4 OD TYPE NYLON TUBING, AS REQUIRED
15	1	BULK	59127	3/8' HEAT SHRINK TUBE, INSULATION SLEEVING, AS REQUIRED
16	1	HRDWR	AS5168D04	PLUG, FLARED TUBE (AN806-4D, OBS.)
17	8	HRDWR	C750LP0C	LOW PROFILE CABLE TIE, UV BLACK
18	1	HRDWR	MS28778-4	O-RING, STRAIGHT THREAD TUBE FITTING BOSS
19	1	HRDWR	MS20824D	ELBOW, FLARED TUBE AND PIPE THREAD, 90 DEG.(AN822-4D)
20	1	HRDWR	SAE 070120-4-6	STRAIGHT THREAD FITTING, SAE -6 TO SAE -4 FLARED TUBE

NOTES:

1) ALL COMPONENTS ABOVE THE VERTICAL WALL OF SEAT PEDESTAL ARE LOCATED WITHIN AIRCRAFT COCKPIT.
   ALL COMPONENTS BELOW ARE BENEATH FLOOR AND ACCESSED THRU THE LOWER FUSELAGE ACCESS PANEL.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS ±1/32 | DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 | ANGLES ±1°
RADII ±.032
SURFACE NA
FINISH NA
USED ON ASSEMBLY

CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

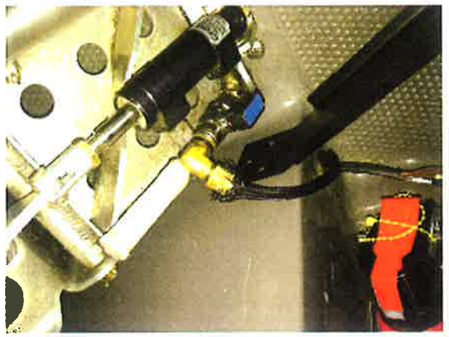
APPROVALS	DATE
DRAWN BT	4/25/14
CHECKED	
APPROVED	4/25/14

AEROCET INCORPORATED
Priest River, Idaho

IN-AIRCRAFT HYDRAULIC LINE INSTALLATION

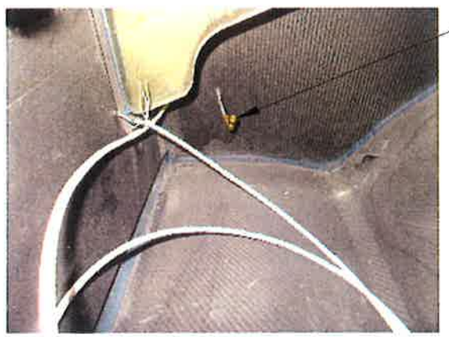
SIZE B | DWG. NO. 15-47502 | REV. I/R
SCALE 1:48 | CAD FILE: 15\15-47502 | SHEET 2 OF 4

FIGURE 1



REPLACE EXISTING 90° ELBOW AT BRAKE PEDAL CYLINDER, 2 PLACES, WITH 15-47254, 3/16 TUBE X 1/8-27 NPT, 90° ELBOW.
ATTACH 58028, .110 ID X 3/16 OD TYPE NYLON TUBING "AS REQUIRED". ROUTE THRU PEDESTAL, OUT AT FORWARD ATTACH BRACKET, DOWN DIAGONAL STRUT AND THRU DRILLED ACCESS HOLE IN TOP SHELL IDENTIFIED "BRAKE".

FIGURE 2

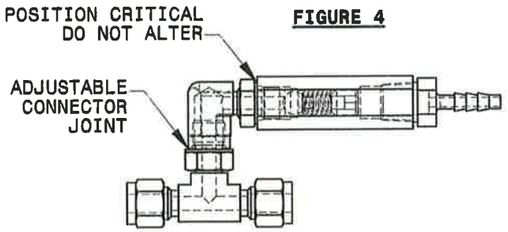


TERMINATE THE BRAKE LINE TUBING IN FLOAT BAY 5 AT THE EXISTING 90° COMPRESSION TUBE UNION, LOCATED AS SHOWN, PASSING THRU BULKHEAD.
NOTE: APPLY HEAT SHRINK TUBING, ITEM 59127 TO NYLON TUBE PRIOR TO INSTALLING THRU PEDESTAL, STRUT, OR TOP SHELL TO REDUCE CHAFING AND WEAR. SECURE WITH CABLE TIES, ITEMS C750LPOC.

FIGURE 3

TYPICAL ORDER OF INSTALLATION FOR BOTH 1/4" AND 3/16" COMPRESSION TUBE FITTINGS.

FIGURE 4



THE PRESSURE RELIEF VALVE ASSEMBLIES ARE PRE-SET TO OPERATE AT 300 psi. IT IS PERMISSIBLE TO ROTATE THE TUBE CONNECTOR TEE, ON THE ELBOW CONNECTOR. FOR EASE OF LOCATING THE UNIT WITHIN THE LOWER FUSELAGE.
AVOID LOOSENING THE ELBOW FROM THE VALVE BODY. THIS WILL RESULT IN A PRESSURE SETTING CHANGE, ADVERSELY AFFECTING THE OPERATION OF THE HYDRAULIC HAND PUMP.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.
TOLERANCES ARE:			APPROVALS / DATE
FRACTIONS ±1/32	DECIMALS .X ±.1, .XX ±.02, .XXX ±.010	ANGLES ±1°	DRAWN BT 4/25/14
RADII ±.032			CHECKED
SURFACE NA			APPROVED 4/28/14
FINISH NA			
USED ON ASSEMBLY			

AEROCET INCORPORATED
Priest River, Idaho

IN-AIRCRAFT HYDRAULIC LINE INSTALLATION

SIZE B | DWG. NO. 15-47502 | REV. I/R
SCALE 1:48 | CAD FILE: 15\15-47502 | SHEET 3 OF 4

REVISIONS				
REV.	DESCRIPTION	DRAWN	DATE	APPROVED
I/R	INITIAL RELEASE	BT	4/28/14	TH
A	ADDED PART # C750LP0C, 8 EA. TO BOM	BT	5/1/14	

NOTES:

1) AIRCRAFT SHOWN, RIGHT SIDE AIRFRAME AND FLOORBOARD FOR CLARITY. GEAR ADVISORY MOUNTED IN APPROXIMATE INSTRUMENT PANEL LOCATION.

2) INSTALL 35A-65701, GC700 GEAR ADVISORY, IN AN AVAILABLE INSTRUMENT CUTOUT. REFER TO FIGURE 2, SHT 3 FOR MOUNTING ILLUSTRATIONS.

   INSTALL 7277-2-1, 1 AMP CIRCUIT BREAKER IN ACCESSIBLE LOCATION ON INSTRUMENT PANEL.

3) REFERENCE DWG. 15-60015, FLOAT WIRING SCHEMATIC. PLUG 25 PIN HARNESS CONNECTOR TO THE BACK OF THE GC700 AND SECURE WITH TWO THUMB SCREWS.

   CONNECT WIRE LEAD AUD-C18-20, TO THE APPROPRIATE AUDIO SYSTEM INPUT FOR INTERCOM FUNCTION.

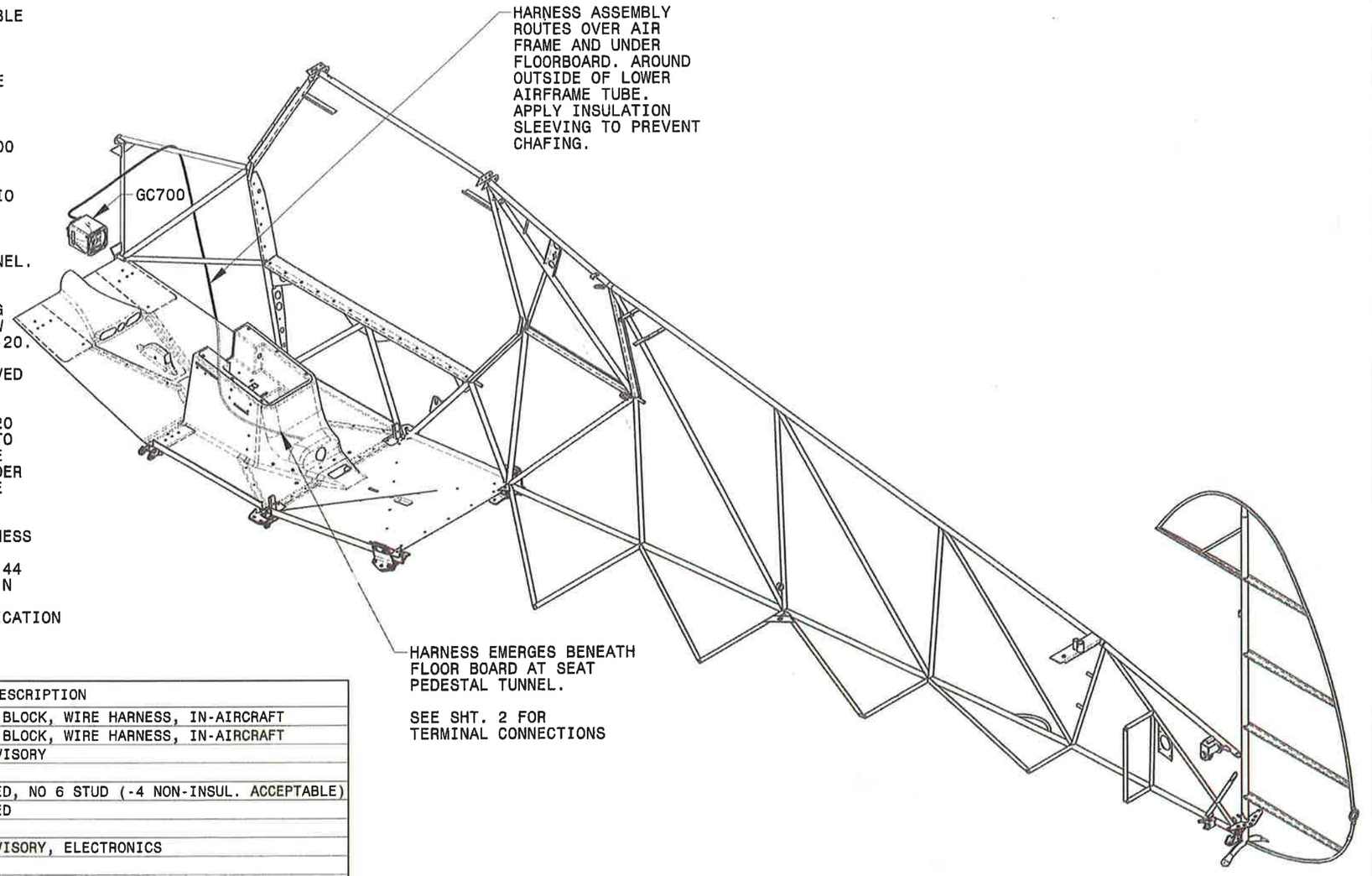
   CONNECT WIRE LEADS AG2-C13-20 & AG3-C1-20 TO GROUND, UTILIZE THE AIRFRAME GROUND LUG BEHIND INSTRUMENT PANEL.

   CONNECT WIRE LEAD PWR-C12B1-20, TO ONE SIDE OF 1 AMP CIRCUIT BREAKER, IN PANEL. ATTACH 20 AWG TERMINAL LUG AND WIRE, TO THE OTHER SIDE OF CIRCUIT BREAKER. ALLOW APPROXIMATELY 96" WIRE LENGTH. IDENTIFY AS PWR-C12B1-20.

4) THE FORWARD, RIGHT SIDE, INTERIOR PANEL MUST BE REMOVED TO PROCEED WITH HARNESS INSTALLATION.

5) BUNDLE THE REMAINING CONNECTOR LEADS, INCLUDING THE 20 AWG. POWER LINE TOGETHER, APPLY INSULATION SLEEVING TO PROTECT HARNESS BUNDLE AS IT ROUTES OVER THE AIRFRAME TUBE (SHOWN) AND BENEATH THE FLOORBOARD. EMERGING UNDER THE SEAT PEDESTAL, ACCESSIBLE THRU THE LOWER FUSELAGE ACCESS PANEL. APPROX. 4-5 FEET OF SLEEVING REQUIRED.

6) COMPLETE THE IN-COCKPIT INSTALLATION BY SECURING HARNESS WITH WIRE TIES AS NECESSARY.
   CONNECT GC700 TO THE AIRCRAFT PITOT SYSTEM UTILIZING 44 NSR, SEMI-RIGID TUBING, 264-N 04, UNION TEE, AND 268-N 04-02 MALE CONN.
   IDENTIFY CIRCUIT BREAKER 7277-2-1, IN PANEL. IDENTIFICATION LABEL #36-15604, MAY BE USED.
   REPLACE THE FORWARD, RIGHT SIDE, INTERIOR PANEL.



ITEM NO.	QTY	TYPE	PART NUMBER	DESCRIPTION
1	1	PART	15-60010	IDENTIFICATION LABEL, TERMINAL BLOCK, WIRE HARNESS, IN-AIRCRAFT
2	1	PART	15-60010-1	IDENTIFICATION LABEL, TERMINAL BLOCK, WIRE HARNESS, IN-AIRCRAFT
3	1	ASSY	15-60015-1	WIRE HARNESS ASSEMBLY, GEAR ADVISORY
4	1	PART	15-65511	MOUNTING BEZEL, GEAR ADVISORY
5	22	HRDWR	35A-60156-4	TERMINAL, RING TONGUE, INSULATED, NO 6 STUD (-4 NON-INSUL. ACCEPTABLE)
6	2	PART	35A-60156-10	TERMINAL, RING TONGUE, INSULATED
7	1	ASSY	35A-65701	GC700 GEAR ADVISORY ASSEMBLY
8	1	PART	36-15604	CIRCUIT BREAKER LABEL, GEAR ADVISORY, ELECTRONICS
9	1	BULK	44 NSR	NYLOSEAL SEMI-RIGID TUBING
10	1	HRDWR	264-N 04	NYLO-SEAL UNION TEE
11	1	HRDWR	268-N 04-02	1/4 TUBE TO 1/8" NPT NYLOSEAL MALE CONNECTOR
12	1	HRDWR	7277-2-1	1 AMP KLIXON CIRCUIT BREAKER
13	1	BULK	59127	3/8' HEAT SHRINK TUBE, INSULATION SLEEVING, AS REQUIRED
14	1	PART	ASP-1BV	BREATHER VENT
15	8	HRDWR	C750LP0C	LOW PROFILE CABLE TIE, UV BLACK
16	2	HRDWR	D-406-0001	CONN. BUTT SPLICE, 22-18 AWG RED
17	4	HRDWR	MS21044C04	NUT, SELF-LOCKING, STAINLESS
18	2	HRDWR	MS27212-1-5	TERMINAL BLOCK
19	4	HRDWR	MS35206-215	MACHINE SCREW, PAN HEAD
20	4	HRDWR	MS35214-26	MACHINE SCREW - PAN-HEAD
21	10	HRDWR	MS35338-136	SPLIT LOCK WASHER, (OR MS35333-154, INTERNAL TOOTH LOCK WASHER)
22	10	HRDWR	MS35649-264	LIGHT HEX NUT (6-32 THREADS)
23	4	HRDWR	NAS1149CN432R	WASHER, FLAT, STAINLESS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ARE:
FRACTIONS ±1/32 | DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 | ANGLES ±1°
RADII ±.032

SURFACE NA
FINISH NA
USED ON ASSEMBLY 15-15100

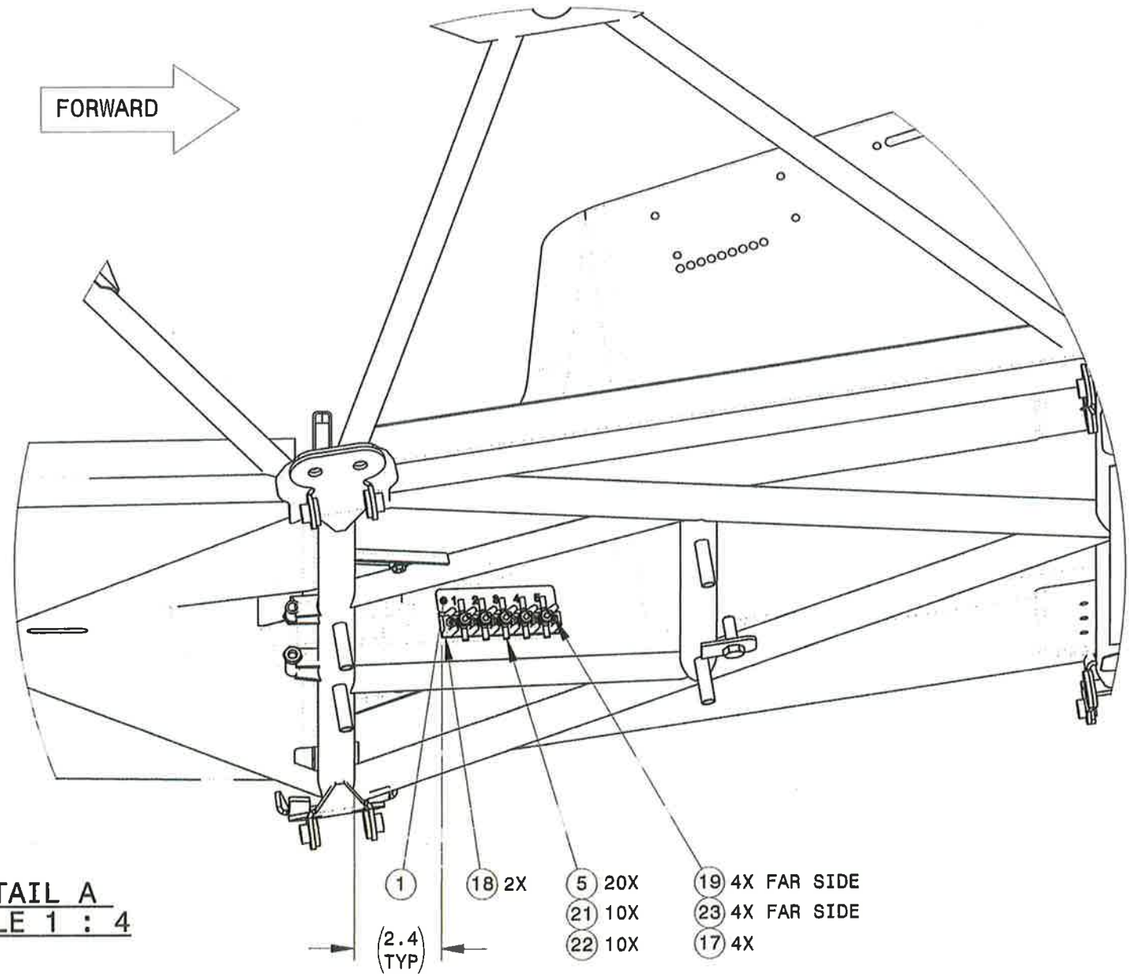
CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.

APPROVALS	DATE
DRAWN BT	4/28/14
CHECKED	
APPROVED TH	4/28/14

AEROCET INCORPORATED
Priest River, Idaho

ELECTRICAL INSTALLATION, AEROCET MODEL 1500 FLOATS

SIZE B | DWG. NO. 15-60000 | REV. A
SCALE 1:64 | CAD FILE: 15\15-60000 | SHEET 1 OF 3



DETAIL A
SCALE 1 : 4

LOWER FUSELAGE VIEW
LEFT SIDE TERMINAL BLOCK SHOWN
RIGHT SIDE IS MIRROR IMAGE

NOTES:

1) MOUNT TERMINAL BLOCKS, MS27212-1-5 TO PEDESTAL SIDE WALLS, LOCATED IN LOWER FUSELAGE TUNNEL, APPROXIMATELY AS SHOWN, (LEFT SIDE).

   LOCATE AND DRILL THE TWO OUTERMOST HOLES OF BLOCK, WITH #31 DRILL, 2 PLACES. SECURE WITH FASTENERS AS LISTED.

2) REFER TO DWG. 15-60015, FLOAT WIRING SCHEMATIC, FOR IN-AIRCRAFT HARNESS CONNECTOR INSTALLATION.

   SORT AND SEPARATE WIRE CONDUCTORS IDENTIFIED TO TERMINATE AT TERMINAL BLOCK LUGS 1-5, LEFT SIDE AND RIGHT SIDE ACCORDINGLY.

   SECURE TO AIRFRAME WITH WIRE TIES AS NECESSARY, AND ASSURE WIRE BUNDLES ARE PROTECTED WITH INSULATION SLEEVING AT CONTACT POINTS.

   TRIM WIRE LEADS TO LENGTH AND CRIMP RING TONGUE TERMINALS TO LEAD ENDS. CONNECT LEADS IN POSITION TO HIGH SIDE OF TERMINAL BLOCKS, REF. FIGURE 3, SHT.3.

3) REFER TO DWG. 15-46010, FLOAT WIRING SCHEMATIC, FOR IN-FLOAT WIRE HARNESS CONNECTOR INSTALLATION. REFER TO SHT. 3, FOR HARNESS ROUTING ILLUSTRATION.

   ROUTE LEFT AND RIGHT SIDE HARNESS ASSEMBLIES THRU DIAGONAL STRUTS AND BACK TO THE INSTALLED TERMINAL BLOCK POSITIONS.

   TRIM WIRE LEADS TO LENGTH, RE-IDENTIFY CONDUCTOR LEADS AS NECESSARY, CRIMP RING TONGUE TERMINALS TO WIRE ENDS AND CONNECT LEADS IN POSITION TO LOW SIDE OF TERMINAL BLOCKS,REF. FIGURE 3, SHT.3.

   SECURE TO AIRFRAME WITH WIRE TIES AS NECESSARY, AND ASSURE WIRE BUNDLES ARE PROTECTED WITH INSULATION SLEEVING AT CONTACT POINTS.

4) SPLICE CONDUCTOR LEADS FROM TERMINAL BLOCK LUGS #3 TOGETHER. IDENTIFY AS AG1-T3T3-18, AND CONNECT TO GROUND. UTILIZE THE AIRFRAME GROUND LUG IN THE LOWER FUSELAGE ACCESS AREA.

5) CONNECT THE 20 AWG POWER CONDUCTOR TO THE 12 VOLT SUPPLY LUG OF THE ELECTRICAL MASTER SOLENOID, LOCATED IN THE LOWER FUSELAGE ACCESS AREA.

6) VERIFY ELECTRICAL OPERATION OF THE GC700 UPON COMPLETION OF THIS INSTALLATION, REF. A-10039, SERVICE MANUAL AND ICA, AEROCET GC700 GEAR ADVISORY.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ±1/32 · DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 · ANGLES ±1° RADII ±.032	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE.	APPROVALS	DATE
		DRAWN BT	4/28/14
		CHECKED	
SURFACE NA		APPROVED TH	4/28/14
FINISH NA		REV APPV'L	5/1/14
USED ON ASSEMBLY 15-15100			

AEROCET
Priest River, Idaho

ELECTRICAL INSTALLATION, AEROCET MODEL 1500 FLOATS

SIZE	DWG. NO.	REV.
B	15-60000	A

SCALE 1:64 · CAD FILE: 15\15-60000 · SHEET 2 OF 3

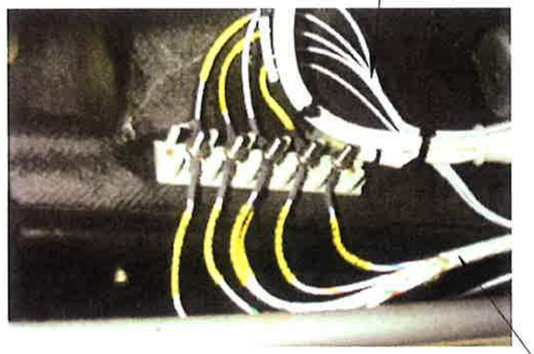
FIGURE 1

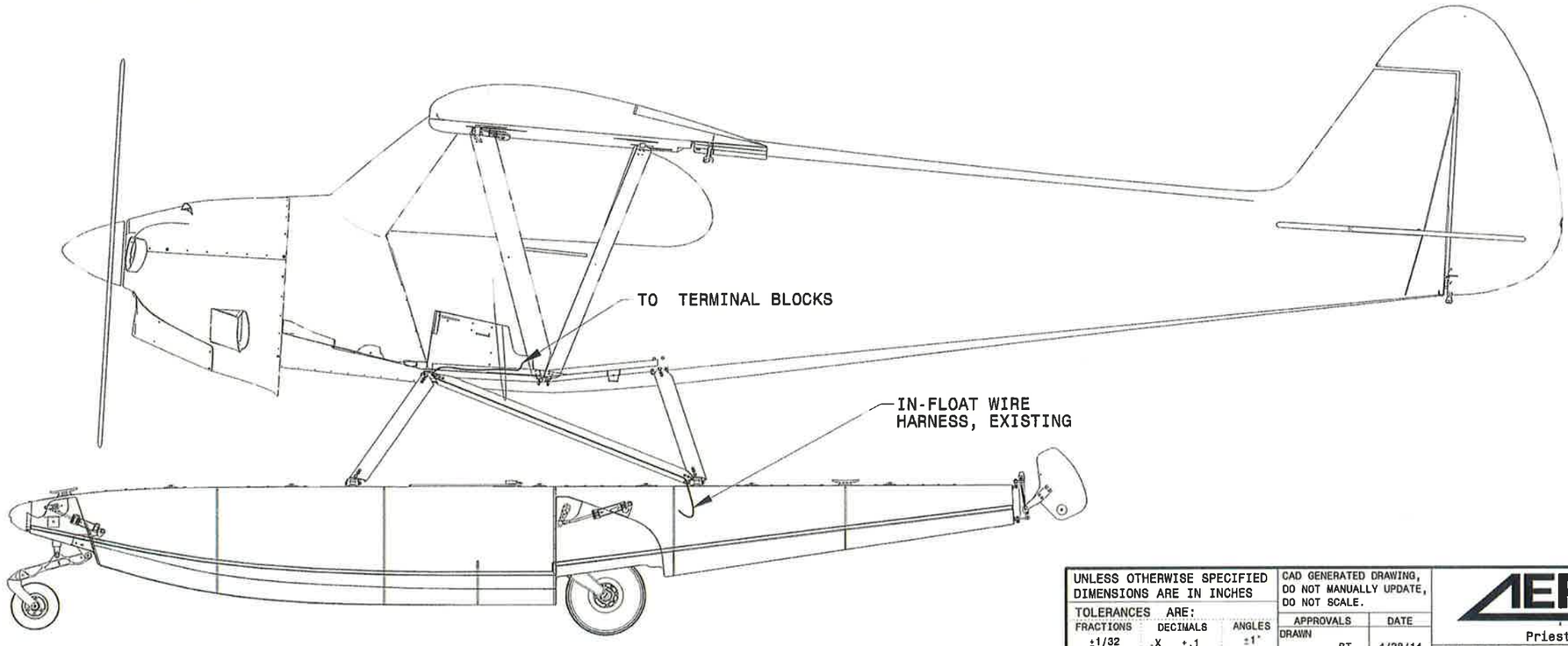
WIRE HARNESS ROUTING

FIGURE 2

GC700 INSTALLATION

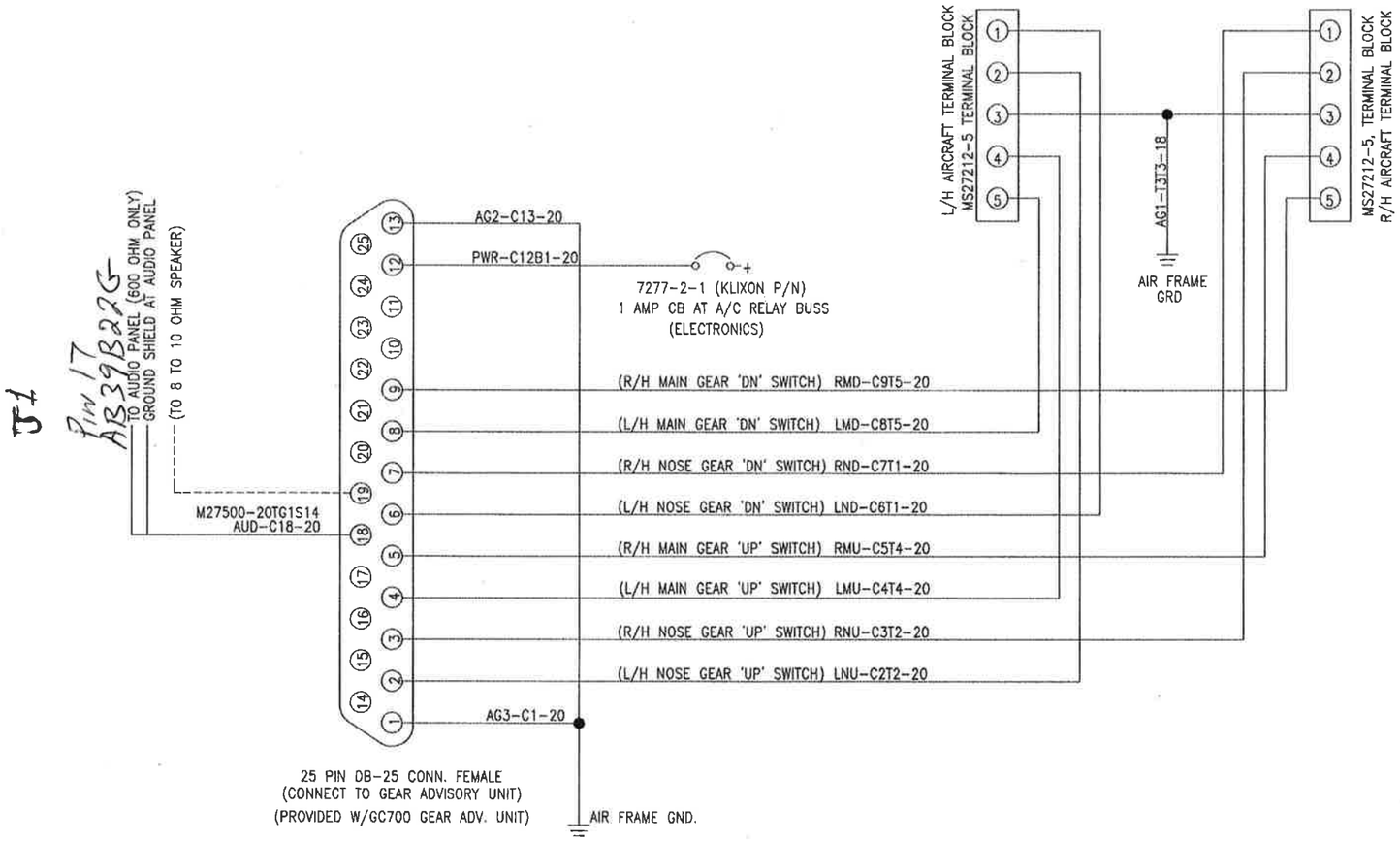
FIGURE 3





UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS ±1/32 · DECIMALS .X ±.1, .XX ±.02, .XXX ±.010 · ANGLES ±1° RADII ±.032 SURFACE NA FINISH NA USED ON ASSEMBLY 15-15100	CAD GENERATED DRAWING, DO NOT MANUALLY UPDATE, DO NOT SCALE. APPROVALS · DATE DRAWN BT 4/28/14 CHECKED APPROVED TH 4/28/14 REV APPV'L CHH 5/1/14	AEROCET INCORPORATED Priest River, Idaho ELECTRICAL INSTALLATION, AEROCET MODEL 1500 FLOATS SIZE B · DWG. NO. 15-60000 · REV. A SCALE 1:64 · CAD FILE: 15\15-60000 · SHEET 3 OF 3

REV.	DATE	DESCRIPTION	BY	CHECKED
I/R	1/17/14	INITIAL RELEASE	BT	TH
A	3/4/14	CHANGED DRAWING NUMBER, WAS: 15-15415, NOW OBSOLETE. CHANGED TITLE BLOCK AND ALL REFERENCES OF SAME. CHANGED NOTATION, WAS: (PROVIDED W/GC600 GEAR ADV. UNIT), IS: (PROVIDED W/GC700 GEAR ADV. UNIT).	BT	



NOTES:
1) UNSHIELDED WIRE PER MIL-W-22759/16, SIZED AS SHOWN. LEADS FROM DB25 CONNECTOR ARE 20 AWG. OTHER WIRE LEAD SIZES ARE 12 AND 18 AWG.
SHIELDED WIRE PER MIL-C-27500, SIZED AS SHOWN. LEADS FROM DB25 CONNECTOR ARE 20 AWG.

A) COLORATION IS OPTIONAL AS SHOWN IF IDENTIFIED BY OTHER ACCEPTABLE MEANS SUCH AS PRINTED IDENTIFICATION TUBING. SUCH IDENTIFICATION MUST BE LOCATED AS CLOSELY TO TERMINALS AS IS PRACTICAL, AND SHALL BE READILY VISIBLE FOR ROUTINE MAINTENANCE AND TROUBLESHOOTING.

B) WIRE IDENTIFICATION SHALL INCLUDE ABREVIATED DESCRIPTION OF DESTINATION OR FUNCTION, CONNECTOR PIN POSITION NUMBER, AND WIRE SIZE AWG. (E.G. AUDIO, CONNECTOR PIN 18, WIRE 20 AWG. ="AUD-C18-20").

2) ROUTING, TERMINAL BLOCKS, CIRCUIT BREAKERS AND RELAYS PER AEROCET DWG. NO. 15-154XX.

4) SEE TABLE ON SHEET 2 FOR WIRE IDENTIFICATION AND DESCRIPTION.

5) ACCEPTABLE PART NUMBERS FOR DB25 CONNECTOR OR EQUIVELANTS ARE:
(DIGI-KEY, TYCO, AMP OR EDMO)
D-SUB RECEPTACLE = 609-1471-ND or 865625SLTLF
CRIMP SOCKET = 205090-1
BACKSHELL/CLAMP = 925GME-ND or 977-025-020R121
4-40 JACKSCREWS = 160-02TSA-ND or 160-000-050R031
HEAT SHRINK TUBING = M23053/5-104

TOLERANCES: EXCEPT WHERE NOTED
TOLERANCING AND DIMENSIONING PER ANSI Y14.5M
LINEAR
.X = ± 0.1/64
.XX = ± N/A
.XXX = ± N/A
ANGULAR: ± N/A DECIMAL
FRACTIONAL: ± N/A
FINISH REQUIREMENTS: N/A
REMOVE ALL BURRS AND EDGES .010-.015 CONSECTIVELY
SURFACE:
FLATNESS/LARITY: N/A
PARALLELISM: N/A
MATERIAL SPECIFIED: N/A
DIMENSIONS IN INCHES
TOLERANCES APPLY BEFORE PLATING

DESCRIPTION:
FLOAT WIRING SCHEMATIC
CUBCRAFTER CC11
AEROCET 1500
AMPHIB FLOATS

AEROCET
PRESCOTT, AZ

FILE NO.	DRAWN BY:	DATE:	SCALE:	REVISIONS
	BT	4/3/13	NONE	
LOCATION:	ENGR.	DATE:	SIZE	
	TH	1/17/14	B	A

USED ON: 15-60015 SHT. 1 of 2

WIRE IDENTIFICATION AND DESCRIPTION TABLE

			SEE NOTE 9 **15-60015**	**-1**
	WIRE I.D. NO.	**DESCRIPTION 1**	**DESCRIPTION 2**	**SIZE (AWG)***	**LENGTH CC11**
***	AG1-T3T3-18	GROUND, AIRFRAME	T-BLOCK POSITION 3 (LHS), & T-BLOCK POSITION 3 (RHS)	18*	
	AG2-C13-20	GROUND, AIRFRAME	CONNECTOR PIN 13 (TO GROUND)	20*	36"
	AG3-C1-20	GROUND, AIRFRAME	CONNECTOR PIN 1 (TO GROUND)	20*	36"
	AUD-C18-20	AUDIO	CONNECTOR PIN 18	20**	36"
	LMD-C8T5-20	LEFT MAIN DOWN INDICAOTR	CONNECTOR PIN 8, T-BLOCK POSITION 6, LHS	20*	96"
	LMU-C4T4-20	LEFT MAIN UP INDICATOR	CONNECTOR PIN 4, T-BLOCK POSITION 4, LHS	20*	96"
	LND-C6T1-20	LEFT NOSE DOWN INDICATOR	CONNECTOR PIN 6, T-BLOCK POSITION 1, LHS	20*	96"
	LNU-C2T2-20	LEFT NOSE UP INDICATOR	CONNECTOR PIN 2, T-BLOCK POSITION 2, LHS	20*	96"
	PWR-C12B1-20	POWER, GEAR ADVISORY, ELECTRONICS	CONNECTOR PIN 12, 1 AMP CIRCUIT BREAKER (AT BUSS)	20*	36"
	RMD-C9T5-20	RIGHT MAIN DOWN INDICATOR	CONNECTOR PIN 9, T-BLOCK POSITION 6, RHS	20*	96"
	RMU-C5T4-20	RIGHT MAIN UP INDICATOR	CONNECTOR PIN 5, T-BLOCK POSITION 4, RHS	20*	96"
	RND-C7T1-20	RIGHT NOSE DOWN INDICATOR	CONNECTOR PIN 7, T-BLOCK POSITION 1, RHS	20*	96"
	RNU-C3T2-20	RIGHT NOSE UP INDICATOR	CONNECTOR PIN 3, T-BLOCK POSITION 2, RHS	20*	96"
	SPK-C19-20	8 TO 10 OHM SPEAKER	CONNECTOR PIN 19	20*	36"

*WIRE SIZES TO BE MARKED ACTUAL SIZE IN FASHION SHOWN
**SHIELDED WIRE
***CUT TO FIT AND IDENTIFIED AT THE AIRCRAFT

NOTES:

1) AG2-C13-20 (PIN 13). WITHIN CONNECTOR SHELL, SPLICE 20 AWG (BLACK) WIRE TO PIN 1.

2) AUD-C18-20 (PIN 18). SHIELDED CONDUCTOR. ADD 20 AWG (BLACK) WIRE, 3-1/2" LONG, SPLICED TO SHIELD WRAP, 1" FROM END OF CONDUCTOR.
STRIP AND TIN BOTH LEAD ENDS 7/16 LONG.

AT CONNECTOR END, ADD 2 EA. 20 AWG (BLACK) WIRES, SPLICED TO SHIELD WRAP, TERMINATE AT PIN 1. AND SOLDER OTHER TO METAL SHELL INSIDE CONNECTOR HOUSING.

3) SPK-C19-20 (PIN 19). FOLD BACK 1/2" AT CONDUCTOR END AND SHRINK TUBE TO INSULATE. (NOT USED).

4) ONLY SHIELDED WIRE AND SPLICED LEAD AT PIN 18 ARE STRIPPED AND TINNED, ALL OTHER WIRE LEADS ARE CUT TO LENGTH ONLY.

5) IDENTIFY ALL WIRE LEADS WITH PRINTED HEAT-SHRINKABLE SLEEVES ON THE WIRES OUTER COVERING.

POSITION SLEEVES 3" FROM EACH END AND AT MID-LENGTH OF WIRE, OR NO GREATER THAN 6' INTERVALS.
WIRES LESS THAN 3-1/2" NEED NOT BE IDENTIFIED.

NOTE: INCLUDE WITH HARNESS ASSEMBLY:
3 SLEEVES EACH, FOR THOSE WIRE POSITIONS MARKED WITH ("***", CUT TO FIT AND IDENTIFIED AT THE AIRCRAFT).

6) DB-25, D-SUBMINIATURE CONNECTOR = MILITARY QUALITY, 25 PIN FEMALE, CRIMP OR SOLDER TYPE 20 AWG TERMINATION, HOOD TYPE COMPOSITE OR PLASTIC WITH ROTATING MALE JACK SCREWS, SHELL TYPE ZINC PLATED WITH CHROMATE SEAL. OR EQUIVALENT.

7) NOTE: ONLY THOSE WIRES THAT LIST LENGTH, ARE INCLUDED IN HARNESS ASSEMBLY. ALL OTHERS ARE CUT TO FIT AND IDENTIFIED BY THE TECHNICIAN IN THE AIRCRAFT.

8) ORDER HARNESS SIZE BY BASE NUMBER 15-60015, ADDING " -X" FOR AIRCRAFT TYPE.

EXAMPLE; "15-60015-1", FITS CUBCRAFTER CC11 A/C.

TOLERANCES, EXCEPT WHERE NOTED
TOLERANCES AND DIMENSIONS PER ANSI Y14.5M
LINEAR
.X ± .1 N/AR
.XX ± .01 N/A
.XXX ± .005
ANGULAR ± N/A DEGREES
FRACTIONAL ± N/A
FINISH REQUIREMENTS N/A RMS
REMOVE ALL BURRS AND EDGES .005-.015
DIMENSIONS N/A
ANGLE N/A
PERPENDICULARITY N/A
PARALLELISM N/A
MATERIAL FINISH N/A
DRAWING IS SUBJECT TO CHANGE WITHOUT NOTICE
DIMENSIONS APPLY BEFORE PLATING

DESCRIPTION:
FLOAT WIRING SCHEMATIC
CUBCRAFTER CC11
AEROCET 1500 AMPHIB FLOATS

AEROCET
PRIEST RIVER, ID

FILE NO.	DRAWN BY:	DATE:	SCALE:		REVISIONS
---	BT	4/23/13	NONE		
LOCATION	CHKR.	DATE:	SIZE	15-60015	
---	TH	6/18/13	B		I/R
	REV	DATE		USED ON: -	SHT. 2 of 2

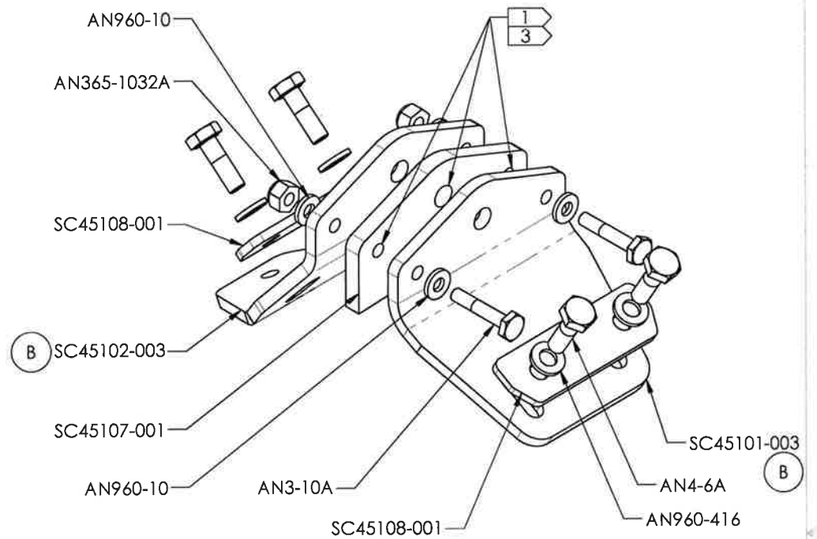
NOTES:

1. MATCH DRILL UPON ASSEMBLY.
2. REMOVE EXISTING HARDWARE AND REPLACE WITH REQUIRED HARDWARE.
3. FLOAT FITTING CENTER SPACER (SC45107-001) MUST BE FLIPPED OVER, DEPENDING ON SIDE, TO FIT TIGHTLY AGAINST THE FUSELAGE PRIOR TO MATCH DRILLING.
4. WATER RUDDER HANDLE/GUIDE INSTALLATION TO BE INSTALLED ON THE RIGHT SIDE OF THE AIRCRAFT FOR AMPHIB APPLICATIONS.

REFERENCE

REVISIONS						
REV.	EO#	FIRST S/N	LAST S/N	SUMMARY OF CHANGES (SEE EO FOR COMPLETE DETAILS)	DRAWN	APPROVED
NC	0	11-00001	AND ON	INITIAL RELEASE	JPB	SJH 04-21 -2008
A	1	11-00001	AND ON	ADDED NOTE 4. ALL SERIAL NUMBERS APPLICABLE. ADDED NHA AND AMPHIB PART NUMBER. UPDATED TO CURRENT STANDARDS AND TEMPLATES.	SJH	SJH 11-05-2010
B	2	11-00001	AND ON	UPDATED PART NUMBERS. UPDATED TO CURRENT STANDARDS.	MRG	ECL 01-24-2013

-001



ITEM NO.	PART NUMBER	DESCRIPTION	-001
17	SP45101-001	BAUMANN STRAIGHT FLOATS	ALT
	SP45101-005	BAUMANN AMPHIBIOUS FLOATS	1
15	SC45108-001	FITTING, FLOAT, DOUBLER PLATE	4
14	SC45107-001	FITTING, FLOAT, CENTER SPACER	2
B 13	SC45102-003	FITTING, FLOAT, LOWER ANGLE	2
12	SC45101-003	FITTING, FLOAT, UPPER ANGLE	2
11	SC45002-001	WATER RUDDER ATTACH BRACKET	2
10	SC45001-001	RETRACT CABLE HOOK	1
9	AN960-416	WASHER, FLAT	8
8	AN960-10	WASHER, FLAT	17
7	AN365-1032A	NUT, NYLON LOCK	9
6	AN100C-4	THIMBLE CABLE	1
5	AN4-6A	BOLT	8
4	AN3-10A	BOLT	4
3	AN3-7A	BOLT	4
2	AN3-6A	BOLT	2
1	AN3-4A	BOLT	1

NONE	NONE	SSC10000	CCPS020
MATERIAL	PROTECTIVE COATING	NEXT HIGHER ASSEMBLY	CCPS018
			CCPS005
			CCPS001
			PROCESS SPECIFICATION(S)

TOLERANCES, UNLESS OTHERWISE SPECIFIED:
DIMENSIONS: .X ±.1 .XX ±.04 .XXX ±.010
ANGLES: X ±2° .X ±1°
ALL DIMENSIONS IN INCHES

CUBCRAFTERS
PHONE: (509) 248-9491 YAKIMA, WA FAX: (509) 248-1421

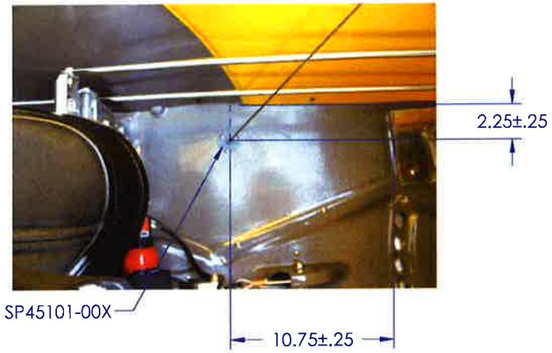
TITLE: **FLOAT INSTALLATION**

SIZE B DWG NO. SC45000 REV B
SCALE: NONE SHEET: 1 OF 2

EN-302_06.05.31

DETAIL A

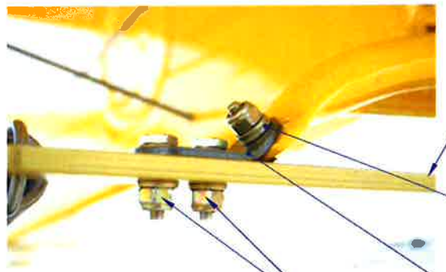
DETAIL B



RETRACT CABLE GUIDE VIEW

DETAIL D

SECTION C-C



DETAIL D
BOTH SIDES

RETRACT CABLE VIEW

TOLERANCES, UNLESS OTHERWISE SPECIFIED:

DIMENSIONS: .X ±.1 .XX ±.04 .XXX ±.010
ANGLES: X ±2° .X ±1°

ALL DIMENSIONS IN INCHES

CUBCRAFTERS
PHONE: (509) 248-9491 YAKIMA, WA FAX: (509) 248-1421

TITLE: **FLOAT INSTALLATION**

SIZE B | DWG NO. SC45000 | REV B

SCALE: NONE | SHEET: 2 OF 2