REPORT OF MARINE SURVEY

SAILING VESSEL

"Maggie Tulliver"

JIM BROWN 31' Trimaran

PREPARED EXCLUSIVELY FOR:

Scott Brown 30 Topham Road Toronto, Ontario M4B 3K2

CONDUCTED BY:

CAPT.EDWARD WOJTECKI
MARINE SURVEYOR AND CONSULTANT
UNIT #4 – 88 LAKEPORT ROAD
ST CATHARINES, ON
L2N 4P8
(905) 938-3617

Overview

About the designer:

Jim Brown has been designing multihull boats since the 1960's, following his association with designer Arthur Piver. Best known for his work on the SEARUNNER Trimaran Series, Jim is the author of several books about trimarans and the inventor of the CONSTANT CAMBER construction method. He has conducted boatbuilding training programs for USAID and Save the Children Foundation in Africa, Tuvalu and the Philippines. Recently he designed the WINDRIDER 16, a radical, roto-molded trimaran for Wilderness Systems. In 1996, he and his wife Joanna cruised to the Bahamas, Cuba and Mexico aboard "Scrimshaw", their 27-year-old SEARUNNER 31 Trimaran.

About the design:

The Searunner 31 came in two configurations. Open wing decks and enclosed. The open version ("A" frame) was suitable for extended voyaging reducing the likely hood of under deck pounding from waves. The enclosed version with side decks, added additional stowage and ease of movement.

The Searunner 31 is a center cockpit design. Starting forward and working aft. The fore peak has light stowage for anchors and rode. Stepping aft under the fore hatch is the head. Aft of the head is a change area and small wash basin. A small step up and aft is the sleeping quarters. Port and starboard bunks with stowage under the floor boards and stowage under the bunks. Another step up and aft puts you in the center cockpit with seating port and starboard with coaming box out board for light stowage. The tiller is located here and the floor lifts out to expose the center board trunk and pennant. Light stowage and fuel tank also are located here. Aft and down puts you in the stern castle. Galley and navigation area are immediately below the companionway. Aft of the galley and Nav area is the drop table settee area with bench seating for 4 people. The table stows and forms a double bunk.

Design commentary by the designer:

The original design parameter was to create the smallest seagoing trimaran that could accommodate a family of four with two teenage boys – our family – and which I could build myself. Another requirement was demount ability. I was not alone among those who, during the back yard builder's "multihull hysteria" of the 1960's and 70's, needed to build in one location and launch somewhere else. Consequently she has the "A-Frame" crossbeams, which are welded aluminum trusses that permit the three hulls to be separated. The boat is not "trailer able" as such, for it is difficult to get all three hulls on one trailer, but demount ability allowed us to build the boat at our canyon home where the only vehicular access was via a steep logging road.

Also in the original A-Frame concept was the desire to minimize the pounding of wave tops underneath the wings, which is the Achilles Heel of most cruising multihull. In SCRIMSHAW the outboard two-thirds of each wing, for their full length, exposes only open netting and the A-Frame tubing to the waves - no fixed solid surfaces - and this virtually eliminates under wing pounding.

JIM BROWN

<u>Captain Edward A. Wojtecki</u> Marine Surveys and Consultation

SURVEY SUMMARY:

This is to certify that on March 22, 2012 I personally surveyed the 31' Jim Brown sailing trimaran Maggie Tulliver bearing the hull identification 31E-1509. The vessel was surveyed on the hard while located at the Toronto Multihull Cruising Club, 16 Regatta Road, Toronto, Ontario. The purpose of the survey was to determine the condition and value of the vessel for insurance purposes.

Problems indicated in this report are in no way intended to present a poor impression of the vessel or to detract from her value. Most problems mentioned are normal for a vessel of her age and type.

Defects not readily visible and not reasonably access able for inspection or discovery without removal of structure, sheathing, liners, joinery, fittings, tanks, machinery and equipment, especially without disassembly or removing those and any other barriers preventing inspection, are not and can not be covered by this report.

This survey is based on facts observed, discovered and presented at the time of survey and represents the honest and unbiased opinion of the surveyor and neither the surveyor nor his agents are to be held responsible for any inaccuracies, omissions, errors in judgment, or negligence. It is submitted in good faith and in no way offers. Expressly or implied, any form of warranty or guarantee concerning the condition of the above mentioned yacht. This survey does not include a determination of the vessel's seaworthiness, nor does it include stability tests or sea trials necessary to such a determination.

It is the experience of the surveyor that develops an opinion as to the vessel's **RATING OF CONDITION**. The grading condition, as developed by **BUC RESEARCH**, and accepted in the marine industry, for a vessel at the time of survey, determines the adjustment to the range of base values in the **BUC USED BOAT PRICE GUIDE**, for a similar vessel sold within a given time period, as a consideration to determine the Market Value. Additional online resources such as multihull brokerage firms have been canvassed to gather market conditions and sales.

EXCELLENT CONDITION is a vessel that is maintained in Bristol Fashion usually better than factory new, loaded with extras, a rarity.

ABOVE AVERAGE CONDITION, has had above average care and is equipped with extra electrical or electronic gear.

AVERAGE CONDITION, ready for sale requiring no additional maintenance and normally equipped for immediate use.

FAIR CONDITION requires normal maintenance in order to prepare for sale.

POOR CONDITION, substantial yard work required and lacking any extras.

RESTORABLE CONDITION, enough of hull and engine exists to restore the vessel to useable condition

OVERALL CONDITIONS & REMARKS

Is this vessel considered a good marine risk: yes No D

It is the opinion of this surveyor that the vessel listed in this report namely the Maggie Tulliver was found in ABOVE AVERAGE condition. This boat is currently under going an exterior refit and the vessels underlying structure is sound. Some present deficiencies were noted, but not serious, but should be attended to.

The vessel is recommended as a good risk for insurance coverage at this time, but the following recommendations (marked with asterisk *) should be complied with. Other recommendations are listed for your information.

Valuation as listed is based on conditions listed in this report herein, review of similar vessel listings and by researching assorted published material.

VALUATION:

Over all vessel condition:

Above Average

Present day market value:

\$38,000 Can. Funds

Replacement cost:

\$110,000 Can. Funds

CaptXEdward Wojtecki

Use of this survey constitutes acceptance of all provisions and limitations stated in this survey report. All provisions of this report are not transferable, except for the above named client's purposes of insuring and/or financing the vessel.

RECOMMENDATIONS

- 1. Figure 1 Repair Items. Forward beams, port and starboard have a ferrous nut that is corroded and should be replaced.
- 2. Figure 2 Repair items. Several bolts on the A frame starboard side are ferrous and should be replaced with a stainless version.
- 3. Figure 3 Repair items. Port side steering cable turning block is lifting off its support. Tighten the bolts.
 - 4. Starboard and port hatch gasket is compressed due to age and considerations should be given to replacing with a rubber bulb style gasket.

Repair items

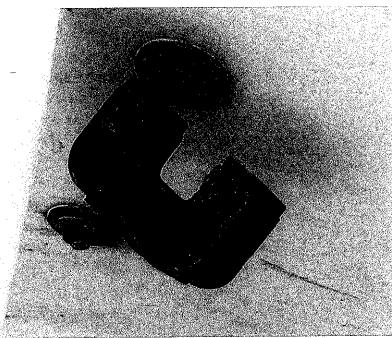


Figure 1 Port and starboard forward beam underside. The bolts need to be replaced with stainless bolts.

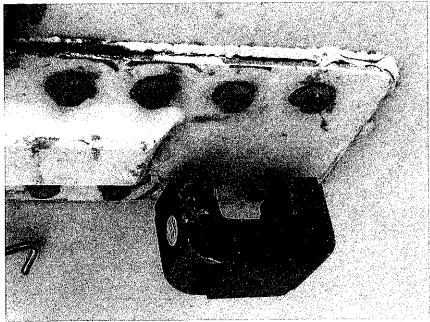


Figure 2 Ferrous bolts should be replaced with stainless. This piece is on the starboard "A" frame under side.

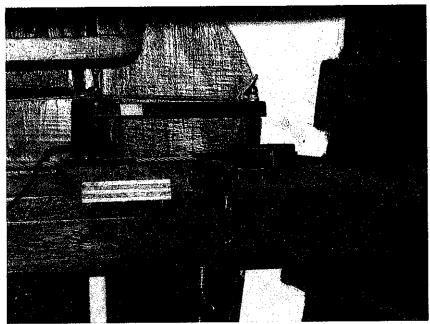


Figure 3 Port side steering cable turning block is lifting from it's support piece. Tighten bolts down

Sail and powered pleasure craft over 9 m and up to 12 m (29'6"- 39'4")



Personal Lifesaving Appliances

- 1. One (1) Canadian-approved personal flotation device or lifejacket of appropriate size for each person on board
- 2. One (1) buoyant heaving line at least than 15 m (49'3") long
- 3. One (1) lifebuoy attached to a buoyant line at least 15 m (49'3") long
- 4. One (1) reboarding device

Note: A reboarding device is only required if the vertical height that must be climbed to reboard the pleasure craft from the water is over 0.5 m (1'8").

Visual Signals

- 5. One (1) watertight flashlight
- 6. Twelve (12) Canadian-approved flares of Type A (Rocket Parachute), B (Multi-Star), C (Hand), or D (smoke signals)

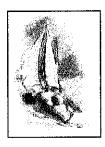
Note:

- 1. Not more than six (6) of which are of Type D (smoke signals).
- 2. Flares are not required for a pleasure craft that:
 - Is operating on a river, canal or lake in which it can never be more than one (1) nautical mile (1.852 km) from shore; or
 - Has no sleeping quarters and is engaged in an official competition or in final preparation for an official competition.













Vessel Safety Equipment

- 7. One (1) anchor and at least 30 m (98'5") of cable, rope or chain in any combination
- 8. One (1) manual bilge pump

OR

Bilge-pumping arrangements

Note: A bailer or manual bilge pump is not required for a pleasure craft that cannot hold enough water to make it capsize or a pleasure craft that has watertight compartments that are sealed and not readily accessible.

Navigation equipment

9. One (1) sound-signalling appliance that meets the requirements set out in the $\underline{Collision}$ Regulations

A sound-signalling device

- 10. Navigation lights that meet the requirements set out in the Collision Regulations
- 11. One (1) magnetic compass

Firefighting Equipment

12. One (1) 10BC fire extinguisher if the pleasure craft is equipped with motor

AND

- 13. One (1) 10BC fire extinguisher if the pleasure craft is equipped with a fuel-burning cooking, heating or refrigeration appliance
- 14. One (1) radar reflector is required under certain conditions



Captain Edward A. Wojtecki

Marine Surveys

CONDITION AND	VALUE	SURVEY	FOR	YACHT INSURANCE /
FINANCING				

Vessel: MAGGIE TULLIVER.

Date: MAR - 21 /12

Requested by: Scott BROWN.

Telephone: 416-757-48d6

Email: sbrown@sbpi.com.

Date of Survey: march 21/12

Location: ToRONO MULTI HULL CLUB

Sea Trial ____

REASON FOR SURVEY

Insurance coverage

Financing ____ Assess Overall Condition ____

DESCRIPTION

Type of Vessel: SAILING TRIMARAN.

Hull ID#: 31E-1509

Vessel-Documentation:

Year/Builder: 2002 KENTH THOMPSON.

Designer: Im BROWN.

Use of Vessel: P. FASURE

Market Value: \$ 38,000 CAN FUNDS

Replacement Value: # 110,000 CAN- FunDS

DIMENSIONS & CONSTRUCTION

(dimensions are approximations & not measured)

Beam: 18 6" Draft: 30 /66 Displacement: 6500 10. Ballast: None

Type of Construction: Lamposite

Fastenings: WOOD SCREW/FIBERGLASS -Keel Bolts: N/A

Hull Deck Joint: LAP Joint /GLASSET OVER

GENERAL CONDITION OF STRUCTURE

HULL & BOTTOM

GOOD/ FAIR POOR COMMENTS Overall Condition by visual inspection NO DISTORTIONS MOTED Condition of topside finish Condition of bottom & Paint - HOME . Any structural defects/delaminating Gel coat condition - NONE Deficiencies affecting insurability/value

UNDERWATER GEAR

Type:

Secure: N/A

Evidence of corrosion or wear: NA

Comments: NA

ABOVE DECKS	COOD	ELA KEDA	DOOD	COMMENTS
Condition overall:	GOOD	FAIR	POOR	COMMENTS
Surfaces:				
	,			
Windows, frames, ports:	T.			
Wandawana	G	.	,	"A" FRAME PAINT IS CHIPPED
Hardware:	В	₩1	_	'A" FRAME PAINT IS CHIPPED & REQUIRES TOUCH UP,
INTERIOR				•
	GOOD	FAIR	POOR	COMMENTS PICTURES PROVIDED IN ADDITIONAL PICTURES
Condition of joiner work:		0	L	ADD TIONAL PICTURES
Condition of surfaces:				
Condition of surfaces.	*			
Cushions soft goods:		Ö		
	_			•
General house keeping:	52			
	-/		_	
Ventilation:			□	
Are internal supports intact?	Yes N	0 🗓	Commen	t
Att methal supports muce.				
Accommodation space separate from engine?	Yes N	0 🗆	Commen	ıt
MACHINERY NA.				•
Type: 14/A	Serial N	umber:	A h	
			•	
Model: i→/A·	Reducti	on Gear	:: N/A	
Condition of:	GOOD	FAIR	e POOR	R COMMENTS
Engine (s) on surface: N/A				
1.				
Transmission (s): v/A				
Accessories: NA				
Accessories: N/P	u		u	

Fluids: HA	GOOD	FAIR	POOR □	COMMENTS			
Intake hose & clamps: µ/A							
Mounts: NA			0				
Stuffing box: N/A	0		П				
Flame arrestor: N/A	0	Ħ	0				
Accessibility of machinery:			0				
Ventilation: µ/A			0				
Exhaust system: WA	ū	0					
Engine instruments: µ/A	0	п	D				
Engine (s) operational? : Yes 🗆 No 🗆 (Comment						
Any major deficiencies?: Yes □ No □	Comment						
Engines fitted: One 🗆 Two 🗆			-				
Engine hours: port: starb	oard:						
AUXILIARY MACHINERY				i-			
Type: HONDA 8HP. HIGH THRUST Model and Serial number: BAAT # 1100753							
Overall condition: Good Working Hours: NA Condition							
FUEL SYSTEM Fuel: GAS. Tank (s) and Material: PLASTIC							

Capacity: 59AL.

Condition of: Tank (s): ✓/A	GOOD	FAIR	POOR	COMMENT
Accessibility: N/A		Ċ	□	
Properly secured and bonded: M/A		а	ū	
Properly ventilated: \aleph / \lozenge	D			
Fill hose and deck plate: N/A.	ū		a	
Feed hose: N/A	□	0		
Vent hose: N/A		ם	П	
Fuel shut off valve: A/A		0		
ELECTRICAL SYSTEM				
Voltage: 12 volt to 24 volt = 32 vol			Jause.	BATTERT
Voltage: 12 volt to 24 volt = 32 vol Battery selector: ONE:			∤ouse Essel	BATTER! FOR WINTER)
Voltage: 12 volt to 24 volt = 32 vol		one h off v		BATTER! FOR WINTER) COMMENT CHOCK / STRAPS / PLASTIC BOX
Voltage: 12 volt 1 24 volt 1 32 vol Battery selector: ONE: Condition of:	atteries: (one h off v		
Voltage: 12 volt to 24 volt = 32 vol Battery selector: DNE: Condition of: Battery installation:	GOOD	FAIR	POOR	
Voltage: 12 volt to 24 volt = 32 volt Battery selector: DNE: Condition of: Battery installation: Wire type:	GOOD	FAIR	POOR	
Voltage: 12 volt to 24 volt = 32 vol Battery selector: ONE: Condition of: Battery installation: Wire type: Organization:	GOOD	FAIR	POOR	
Voltage: 12 volt to 24 volt = 32 vol Battery selector: ONE: Condition of: Battery installation: Wire type: Organization: Switchboard:	GOOD	FAIR	POOR	

NAVIGATION & ELECTRONICS			フ&۷	MTION.
Compass: AIRGUIDE Calibrat	ed: Yes [□ No	- CAR	ID HOT POSTED
VHF: GPS: V	Depth Se	ounder:		Knot Meter:
Autopilot: Radar: N/A	Chart p	lotter:	н/н	Log:
Wind instruments: N/A	AM/FM	/CD:		
Galley				
Stove top (oven):	Good	Fair	Poor	
Refrigerator/ice box:		O	Ċ	
Ventilation:				
Microwave: N	0	. 0		
Galley equipment secured:		П		
Stove surround fire protection:				
AIR CONDITIONING/HEAT N				
Pump and compressor:				
Heater exhaust:			G	
STEERING		,		
Overall condition:				
Cable/hydraulics:		13		SELURE PORT SIDE TURNING BLOCK. SEE

Secured:

		GOOD	FAIR	POOR	COMMENT
Bilge pumps manual:					·
Bilge pumps electric: N/A . Bilge pump engine driven: N/A .		-	ο.	а	
Bilge pump engine driven: \mathcal{H}/\mathcal{H} .			0	0	
THRUHULL FITTINGS					
Condition of:					
Operable/accessibility:					
Hose & clamps					
SAFETY EQUIPMENT PORTABLE FIRE EXTINGUISHER (s)		GOOD	FAIR	POOR	COMMENT
Condition:					
Built in System: N/A.			D	0	
FUME DETECTORS Carbon Monoxide/Dioxide: N/A				B	
Propane: N/A.					
LIFE PRESERVERS					
Condition:					
Accessibility:		D/	<u> </u>	-	
ADDITIONAL GEAR					
Life Ring:	EPIRB:	A/H		Rad	ar Reflector: N/A
Overboard Pole: N/A	Life raft	: N/A			rch Light: 🅦/A
Horn /Whistle:	M.O.B. I	Light: 🗸		Flar	res:
Charts:	Oily Wat	er Discha	rge Plac	ard: N/	, h ∙
Nav. Lights: 🗸			σ		

Anchor (s): FORTRESS # 18 200 CQR # 25 150' Rode: Zoo' of 1/2" 150' of NYLON Dock Lines: 8 Fenders: 6 Boarding Ladder: ONE	RODE - G RODE - G 5/8" NTLA	SO CHAIN	
TYPE OF RIG: Mast Step:	GOOD FA	AIR POOR	R COMMENT
Chain plates:			
Standing Rigging:			
Running Rigging:		0 .0	
Mast, Boom, Spreaders:	Q	0 0	
Turnbuckles:	1	D 0	l ·
Winches:		<u> </u>	3
Sails:			WA. W.S.S. \
Furler: N/A		A	OLDER SERVICABLE BEHOA

DEFINITION OF TERMS

ADDITIONAL REMARKS

Definition of words and terms that are used in this survey report.

NEW New installation or equipment

GOOD Nearly new with only minor structural / cosmetic issues noted

FAIR Functional as appears with minor repairs

POOR Unusable, requires repairs or replacement of item, system component to be considered Functional

POWERS UP Electronic item operates, but reliability and all functions of operation cannot be confirmed

NOT PROVEN Installed and appeared functional, but operation was not confirmed

N/A Not Applicable

Additional Photographs



Figure 1 Sea Runner 31

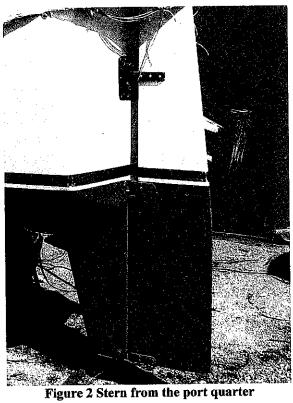




Figure 3 Interior float detail

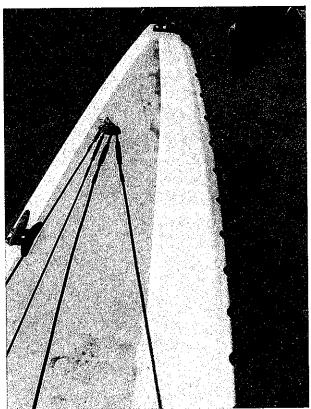


Figure 4 Fore deck port float

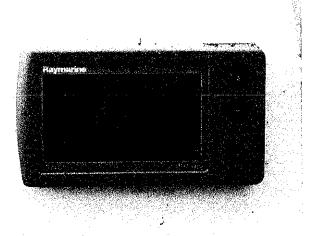


Figure 5 Speed depth



Figure 6 Autopilot

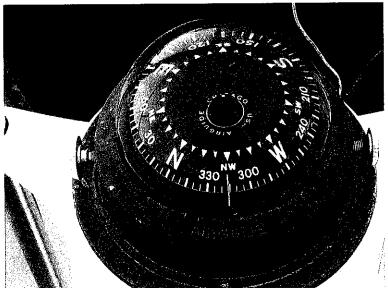


Figure 7 Compass

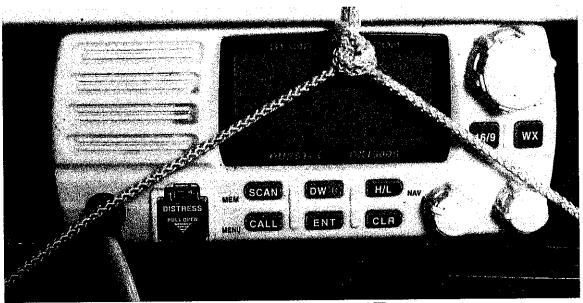


Figure 8 Standard Horizon VHF

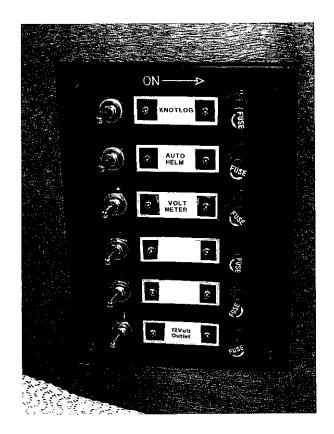


Figure 9 Panel one

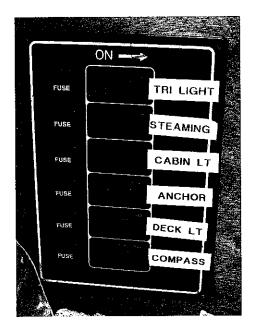


Figure 10 Panel two

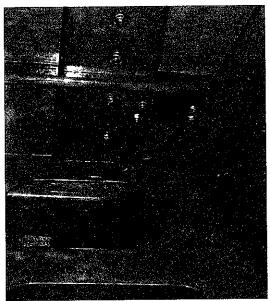
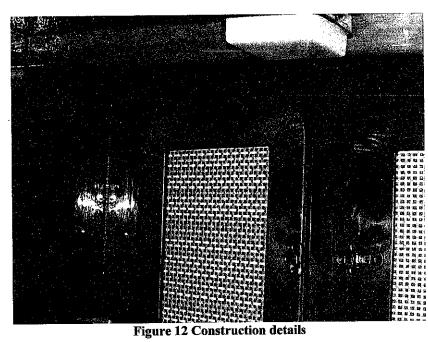


Figure 11 Construction details



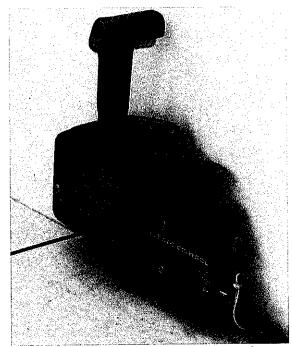


Figure 13 Honda single lever control

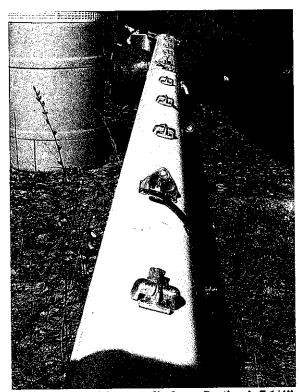


Figure 14 35' aluminum spar with mast climbers. Section is 7 1/4" x 4 1/8" approx.

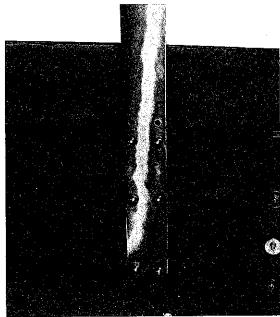
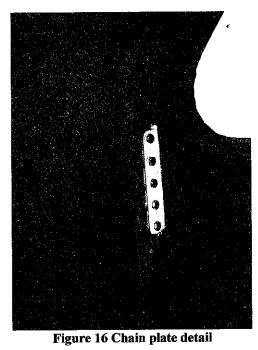


Figure 15 Interior pictures chain plate detail



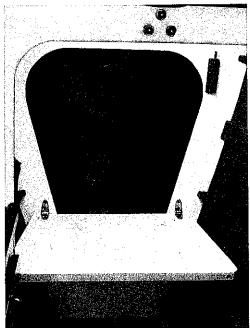




Figure 18 Lower forestay attachment point



Figure 19 Instrument thru hulls



Figure 20 Anchor rode

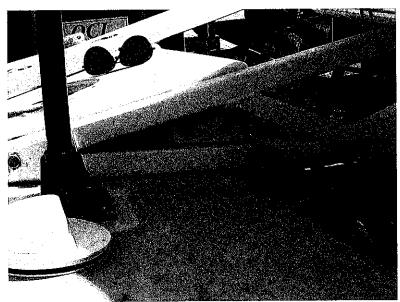


Figure 21 "A" frame detail

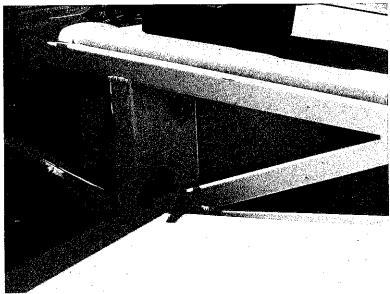


Figure 22 "A" Frame detail

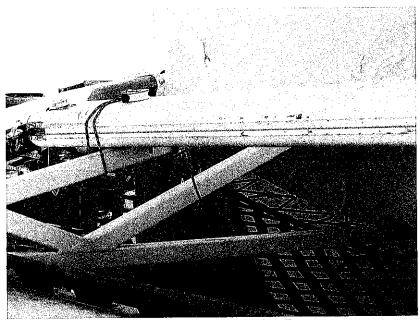


Figure 23 "A" frame detail

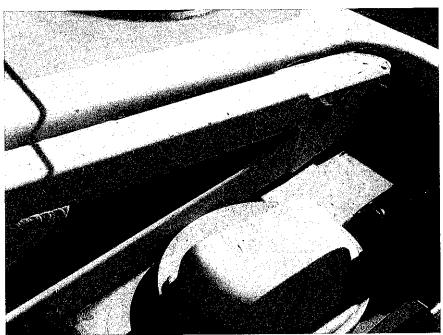


Figure 24 "A" Frame detail

				•
				•
			y.	