Route 441, Post Office Box 1030 Alachua, FL 32616; Tel: (386) 462-3077; Fax: (386) 462-4077; info@huntermarine.com



HUNTER MARINE CORPORATION ROUTE 441, POST OFFICE BOX 1030 ALACHUA, FLORIDA 32616 Tel: (386) 462-3077 Fax: (386) 462-4077 E-MAIL: info@huntermarine.com

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Welcome to THE HUNTER MARINE FAMILY

Congratulations on your new sailing yacht manufactured by Hunter Marine. We have engineered and constructed your boat to be as fine a yacht as any afloat. In order to get the best performance and most enjoyment from your boat you should be familiar with its various elements and their functions. For your sailing pleasure and safety, please take time to study this manual.

We stand behind the quality of your boat with a warranty, which you should review. To insure the validity of your warranty, please complete the attached card and send it to us within ten (10) days of the purchase date. Section 15 of the U.S. Federal Boat Safety Act requires registration of a boat's first owner. The warranty data should also be recorded in the space below for your own reference.

This manual has been compiled to help you operate your craft with safety and pleasure. It

contains details of the craft; equipment supplied or fitted, systems, and information on operation and maintenance. Please read it carefully, and familiarize yourself with the craft before using it. If this is your first sailboat or you are changing to a type of craft you are not familiar with, please ensure that you obtain proper handling and operating experience before you assume command of the craft. Your dealer or national sailing federation or yacht club will be pleased to advise you of local sea schools or competent instructors.

PLEASE KEEP THIS MANUAL IN A SAFE PLACE AND HAND IT OVER TO THE NEW OWNER IF YOU SELL THE CRAFT.

You should also complete the warranty cards for your engine and other accessories. These are enclosed in the manufacturers' manuals that are packaged with your owner's manual.

OWNER INFORMATION CARD

HULL IDENTIFICATION NUMBER IS ON THE STARBOARD AFT SIDE OF THE HULL OR TRANSOM. THIS NUMBER MUST BE GIVEN IN ALL NECESSARY CORRESPONDENCE.

HULL NO.	DATE DELIV	ERED TO OWNER	
YACHT NAME			
OWNER NAME			
STREET ADDRESS			
CITY	STATE/COUNTRY	ZIP CODE	
HOME PORT			
ENGINE MODEL	SERIAL NO.	PROPELLER SIZE	
DEALER	PHO	NE	
STREET ADDRESS			
CITY	STATE/COUN	TRY	ZIP CODE

Hunter • Warranty

E R°



Hunter offers a limited warranty on every Hunter boat sold through an authorized Hunter dealer. A copy of this warranty is included here, and in your Operator's Manual. If for some reason you are not able to understand, read, or view this manual, please contact your local dealer for a replacement copy.

We stand behind the quality of your boat with a warranty, which you should review. To insure the validity of your warranty, please complete the attached card and send it to us within ten (10) days of the purchase date. Section 15 of the U.S. Federal Boat Safety Act requires registration of a boat's first owner. The warranty data should also be re-corded in the space below for your own reference.

> The following warranties apply to all 2008 Model Year boats produced by HUNTER MARINE CORPORATION:

> > LIMITED ONE-YEAR WARRANTY

Hunter Marine warrants to the first-use purchaser and any subsequent owner during the warranty period that any part manufactured by Hunter will be free of defects caused by faulty workmanship or materials for a period of twelve (12) months from the date of delivery to the first-use purchaser under normal use and service. During this period, as the sole and exclusive remedy, Hunter's obligation under the warranty is limited to the repair or replacement of any such defective part.

LIMITED FIVE-YEAR HULL STRUCTURE AND BOTTOM BLISTER WARRANTY

Hunter warrants to the first-use purchaser and any subsequent owner during the warranty period that the hull of each boat will be free from structural defects in materials and workmanship for a period of five (5) years from the date of delivery to the first-use purchaser under normal use and service.

This limited warranty applies only to the structural integrity of the hull and the supporting pan/grid or stringer system. Hulls, pan/grid or stringers modified in any way or powered with engines other than the type and size installed or specified by Hunter are not covered by this limited warranty. As the sole and exclusive remedy, Hunter's obligation under the warranty is limited to repair or replacement of any such defective part.

Hunter also warrants to the first-use purchaser and any subsequent owner during the warranty period that the boat will be free from gelcoat blistering on underwater surfaces of the hull, excluding the keel and rudder, for a period of five (5) years from the date of delivery to the first-use purchaser under normal use and service. During this period, Hunter will supply or reimburse an authorized Hunter dealer for all of the parts and labor required to repair a blistered underwater surface of the hull. The labor cost reimbursement will be based on the Labor Allowance Schedule established by Hunter from time to time, however if the repair is performed by a non-Hunter dealer, the repair cost must be authorized by Hunter in advance and be based on a reasonable number of hours as determined by Hunter. Hunter will not pay transportation, hauling, launching, bottom paint, storage, dockage, cradling rental, rigging and derigging, or other similar costs. It is recommended that the repair be done during a seasonal haul out for service or storage.

PLEASE KEEP THIS MANUAL IN A SAFE PLACE AND HAND IT OVER TO THE NEW OWNER IF YOU SELL THE CRAFT.

You should also complete the warranty cards for your engine, and other accessories. These are enclosed in the manufacturers' manuals that are packaged with your owner's manual. When purchased from Hunter or dealer with a new Boat.

HUNTER EXPRESSLY DISCLAIMS THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. NEITHER HUNTER OR THE SELLING DEALER SHALL HAVE ANY RESPONSIBILITY FOR LOSS OF USE OF A BOAT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, OR CONSEQUENTIAL DAMAGES. The following circumstances will void the bottom blister limited warranty:

(1) If the gel-coat has been sanded, sandblasted, or subjected to abrasion or impact.

(2) If the instructions provided in the Hunter Owner's Manual are not followed according to Hunter's required bottom preparation procedures.

RESTRICTIONS APPLICABLE TO WARRANTIES #

These limited warranties do not cover:

(1.) Paint, window glass, Gelcoat, upholstery damage, plastic finishes, engines, engine parts, bilge pumps, stoves, blowers, pressure water pumps, propellers, shafts, rudders, controls, instruments, keels and equipment not manufactured by HUNTER. Any warranty made by the manufacturer of such items will be, if possible, given on to the first use purchaser.

(2.) Problems caused by improper maintenance, storage, cradling, blocking, normal wear and tear, misuse, neglect, accident, corrosion, electrolysis or improper operation.

(3) Boats used for commercial activities including charter.

THESE LIMITED WARRANTIES ARE YOUR SOLE AND EXCLUSIVE REMEDIES AND ARE EXPRESSLY IN LIEU OF ANY AND ALL OTHER REMEDIES AND WARRANTIES EXPRESSED AND IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHETHER ARISING BY LAW, CUSTOM, CONDUCT, OR USAGE OF TRADE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. IN THE EVENT THAT IMPLIED WARRANTIES ARE FOUND TO EXIST UNDER THE LAW OF A PARTICULAR STATE, NOTWITHSTANDING THE EXCLUSION CONTAINED HEREIN, THE DURATION OF ANY SUCH IMPLIED WARRANTY SHALL BE LIMITED TO THE DURATION OF THE APPLICABLE LIMITED WARRANTY STATED HEREIN. THE PURCHASER ACKNOWLEDGES THAT NO OTHER REPRESENTATIONS WERE MADE TO HIM OR HER WITH RESPECT TO THE QUALITY OR FUNCTION OF THE BOAT. ANY ORAL STATEMENT OR PRINTED MATERIAL ADVERTISING THE BOAT WHICH SPEAKS TO ANY PERFORMANCE CHARACTERISTIC OF THE BOAT OR ANY OF ITS COMPONENTS SHALL BE CONSIDERED AND CON-STRUED AS AN ESTIMATED DESCRIPTION ONLY AND SHOULD NOT BE RELIED UPON AS AN EXPRESS WARRANTY OR AS THE BASIS OF THE BARGAIN FOR THE BOAT OR ANY OF ITS COMPONENTS.

ANY CONSEQUENTIAL, INDIRECT OR INCIDENTAL DAMAGES WHICH MAY BE INCURRED ARE EXCLUDED AND PURCHASER'S REMEDY IS LIMITED TO REPAIRS OR REPLACEMENT OF ANY PART(S) JUDGED DEFECTIVE BY HUNTER MARINE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL OR INDIRECT DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. Hunter • Warranty

	OWNER INFORMATI	ON CARD
		RBOARD AFT SIDE OF THE HULL OR LL NECESSARY CORRESPONDENCE.
HULL NO.		
DATE DELIVERED TO	OWNER	
YACHT NAME		
OWNER NAME		
STREET ADDRESS		
CITY	STATE/COUNTRY	ZIP CODE
HOME PORT		
ENGINE MODEL	SERIAL NO	PROPELLER SIZE
DEALER		PHONE
STREET ADDRESS		
CITY	STATE/COUNTRY	ZIP CODE
CUSTOMER SERVICE	/ WARRANTY	

WARRANTY REGISTRATION

These limited warranties shall not be effective unless the HUNTER Warranty Registration Form and Pre-Delivery Service Record, which are furnished with each new boat, are filled out completely and re-turned to HUNTER within ten (10) days of delivery.

Return of the Warranty Registration Form to HUNTER, signed by both Dealer and Owner, is critical. Warranty coverage cannot be initiated until the completed form is received at HUNTER.

All repairs and/or replacements will be made by an authorized Hunter dealer, or at the option of Hunter, at the Hunter plant. If the repairs are of such a nature that the warranty work must be performed at the HUNTER plant, transportation costs to and from the HUNTER plant shall be paid by the owner. The labor cost reimbursement will be based on a Labor Allowance Schedule established by HUNTER and where not applicable, on a reasonable number of hours as determined by HUNTER. Any repairs and replacements must be approved in advance by an authorized HUNTER service representative.

■ TRANSFER OF LIMITED WARRANTIES #

For 1995 and later hull numbers, the limited warranties will be transferred to a subsequent purchaser of the boat if:

(1) A notice of the transfer of ownership of the boat is given by the subsequent purchaser in writing to Hunter within thirty (30) days of the transfer.

(2) The notice shall include the name, address and telephone number of the subsequent purchaser, the date of purchase, the hull number and the name of the seller of the boat.

Hunter will mail to the subsequent purchaser notice of the expiration dates of the limited warranties (see form letter, attached). The transfer of the ownership of the boat will not extend the expiration dates of the limited warranties.

CUSTOMER SATISFACTION SURVEYS

During the first year of ownership, the first purchaser will receive two Customer Satisfaction Surveys - the first (CSS#1) will be received shortly after taking delivery and focuses on the dealer's ability to sell and commission the boat, and the Owner's initial satisfaction. The second survey (CSS#2), nine to ten months into ownership, "measures" dealer service capability and allows the owner to evaluate most of the boat's functional systems and characteristics. Both surveys are dependent upon receipt of the first purchaser's Warranty Registration Form.

SAMPLE FORM LETTER

March 12, 1997

Mr. John Smith 1456 Joy Street Sarasota, FL 34266

Dear Mr. Smith,

Thank you for providing written notice of transfer of ownership. We are pleased you have selected a Hunter sailboat and we will make every effort to assure Hunter ownership will be a satisfying experience for you.

Based on the information you have provided, we tre pleased to notify you of the expiration dates of the limited warranties.

- The limited one-year New Boat warrant, expires (d)
- The limited five-year Hull Structure and Bottom Blister warranty expires (d)_____

Should you require assistance at any time during ownership, we encourage you to contact your Hunter dealer or to call us directly at 986-462-3077.

Please confirm the information at the bottom of the page and advise us if any corrections are required.

Customer Service Manager

Hull No: HUN		Model:	
Telephone: (H)		(B)	
Date of Purchase:		· · · · · · · · · · · · · · · · · · ·	
Purchased From:	Name:		
 Address:			
City/State		Zip	
		() Private Owner	() Dealer

Hunte	er • Warranty
Notes:	

HUNTER MARINE'S OWNER AND FOUNDER WARREN R. LUHRS

BRIEF BACKGROUND

Warren Luhrs was born in East Orange, New Jersey in 1944 into a family with an established tradition in the maritime and transportation industries. His greatgrandfather, Henry, was a railroad and clipper-shipping pioneer in America, while his great-uncle John helped build the famous St. Petersburg to Moscow railroad for Czar Alexander II.

Henry Luhrs owned shares in twentytwo different ocean-going vessels – barks, brigs, and schooners - and was the principal owner of the bark *Sophia R. Luhrs*, named for his wife. He was also a partner with Albert Sprout, who managed the shipyard where the *Sophia R. Luhrs* was built in Melbridge, Maine.

Warren Luhrs' father Henry worked at a small boat manufacturer in Morgan, New Jersey, and later started his own company, continuing the Luhrs' family sea tradition during the great depression. During World War II he repaired boats and installed ice sheathing on their bows for the Coast Guard.

After the War, Henry built 27-foot fishing boats and in 1948 began to construct custom-built pleasure craft. He then turned to skiffs and in 1952 incorporated as Henry Luhrs Sea Skiffs, where he constructed lapstrake sea skiffs using assembly-line techniques. Henry personally "shook down" his prototypes on family trips up the Hudson River to Lake Champlain.

The sea skiff is a class of boat that has been very popular, owing to its seaworthiness. It features a sharp bow, which reduces pounding in surf or choppy seas, and a hull whose forward section is rounded below the waterline to increase stability in rough water or a following sea. Such skiffs can either be smooth sided or of a lapstrake construction.

Inspired by Henry Ford, Henry Luhrs' aimed to give the average man the opportunity to enjoy the luxury of boating by building an affordable and reliable boat. He was both designer and engineer, and his progressive new models exhibited his talent for innovation. He successfully changed the line of the bow from straight to curved at a time when the industry trend was a straight square effect, and he is believed to be the first designer-builder to popularize a small boat with a fly bridge.

In 1960, Luhrs acquired the Ulrichsen Boat Company of Marlboro, New Jersey. It was here that Luhrs' Alura fiberglass division was located. In 1965, Henry sold his company to Bangor Arrostook Railroad, which was to become the recreational conglomerate Bangor-Punta. It was also during this period that Silverton of Tom's River, New Jersey was purchased by John and Warren Luhrs.

Today, Warren R. Luhrs and his brother John own the Luhrs Group of marine manufacturers, which consists of Silverton Marine, Mainship Motor Yachts, and Luhrs Fishing Boats with its Alura division, as well as Hunter Marine, which exclusively manufactures sailboats.

In January of 1996, the Luhrs family transferred a portion of the Luhrs Group to its employees through an ESOP program.

Α

Aback: describes a sail when the wind strikes it on the lee side.

Abaft: towards the boat's stern.

Abeam: at right angles to the *center-line* of the boat.

Aft: at or near the stern.

Amidships: the center of the boat, *athwartships* and fore and aft.

Anti-fouling: a poisonous paint compound used to protect the underwater part of a hull from marine growths.

Apparent wind: The direction and speed of the wind felt by the crew. It is a combination of *true wind* and that created by the movement of the boat. Astern: behind the boat; to go astern is to drive the boat in reverse.

Athwartships: at right angles to the fore and aft line of the boat.

В

Back: when a wind backs, it shifts anticlockwise.

Back a sail: to sheet it to windward so that the wind fills on the side that is normally to *leeward*.

Backstay: a stay that supports the mast from aft and prevents its forward movement.

Ballast: extra weight, usually lead or iron, placed low in the boat or externally on the keel to provide stability.

Ballast keel: a mass of ballast bolted to the keel to increase stability and prevent a keel boat from capsizing.

Batten: a light, flexible strip fed into a batten pocket at the *leech* of the sail to support the *roach*.

Beam: 1, the maximum breadth of a boat; 2, a transverse member that supports the deck; 3, on the beam means that an object is at right angles to the centerline.

Bear away: to steer the boat away from the wind.

Bearing: the direction of an object from an observer, measured in degrees true or magnetic.

Beat: to sail a *zigzag course* towards the wind, *close-hauled* on alternate *tacks*.

Belay: to make fast a rope around a *cleat*, usually with a figure-of-eight knot.

Bend: 1, to secure a sail to a spar before hoisting; 2, to moor a boat; 3, a sleeping place on board.

Bight: a bend or loop in a rope.

Bilge: the lower, round part inside the hull where the water collects.

Block: a pulley in a wooden or plastic case, consisting of a *sheave* around which a rope runs. It is used to change the direction of pull.

Boot-topping: a narrow colored stripe painted between the bottom paint and the *topside* enamel.

Bottlescrew: see Rigging screw.

Broach: when a boat *running* downwind slews broadside to the wind and *heels* dangerously. It is caused by heavy following seas or helmsman's error.

Broad reach: the point of sailing between a beam *reach* and a *run*, when the wind blows over a guarter.

Bulkhead: a partition wall in a boat normally fitted athwartships

С

Caulk: to make the seams between wooden planks watertight by filling with cotton, oakum or a compound.

Cavitation: the formation of a vacuum around a propeller, causing a loss in efficiency.

Center-board: a board lowered through a slot in the *keel* to reduce *leeway*.

Center-line: center of the boat in a fore and aft line.

Center of effort (COE): the point at which all the forces acting on the sails are concentrated.

Center of lateral resistance (CLR): the underwater center of pressure about which a boat pivots when changing *course*.

Chain pawl: a short lug which drops into a toothed rack to prevent the anchor chain running back.

Chain plate: a metal plate bolted to the boat to which the *shrouds* or *backstays* are attached.

Chart datum: reference level on a chart below which the tide is unlikely to fall. Soundings are given below chart datum. The datum level varies according to country and area.

Chine: the line where the bottom of the hull meets the side at an angle. **Cleat:** a wooden, metal or plastic fit-

ting around which rope is secured. **Clevis pin:** a locking pin through which a split ring is passed to prevent accidental withdraw.

Clew: the after, lower center of a sail where the foot and *leech* meet.

Close-hauled: the *point* of *sailing* closest to the wind; see also *beat*.

Close reach: the *point* of *sailing* between *close-hauled* and a beam reach, when the wind blows forward of the *beam*.

Close-winded: describes a boat able to sail very close to the wind.

Coaming: the raised structure surrounding a hatch, cockpit, etc., which prevents water entering.

Cotter pin: soft, metal pin folded back on itself to form an eye.

Course: the direction in which a vessel is steered, usually given in degrees; true, magnetic or compass.

Cringle: 1, a rope loop, found at either end of a line of reef points; 2, an eye in a sail.

D

Dead run: running with the wind blowing exactly aft, in line with the *centerline*.

Deviation: the difference between the direction indicated by the compass needle and the magnetic *meridian*; caused by object aboard.

Displacement: 1, the weight of water displaced by a boat is equal to the weight of the boat; 2, a displacement hull is one that displaces its own weight in water and is only supported by buoyancy, as opposed to a planning hull which can exceed its hull, or displacement, speed.

Downhaul: a rope fitted to pull down a sail or spar.

Draft: the vertical distance from the waterline to the lowest point of the keel.

Drag: 1, an anchor drags when it fails to hole; 2, the force of wind on the sails, or water on the hull, which impedes the boat's progress.

Drift: 1, to float with the current or wind; 2, US the speed of a current

(rate UK); 3, UK: the distance a boat is carried by a current in a given time. **Drogue:** a sea anchor put over the stern of a boat or life raft to retard *drift*. **Drop keel:** a retractable *keel* which can be drawn into the hull, when entering shallow waters and recovering on to a trailer.

Ε

Eye of the wind: direction from which the true wind blows.

F

Fair: well-faired line or surface is smoother with no bumps, hollows or abrupt changes in directions.

Fairlead: a fitting through which a line is run to alter the lead of the line.

Fathom: the measurement used for depths of water and lengths or rope. 1 fathom = 6 ft. or 1.83m.

Fid: a tapered tool used for *splicing* heavy rope and for sail-making, often hollow.

Fiddle: a raised border for a cabin table, chart table etc., to prevent objects falling off when the boat *heels*.

Fix: the position of the vessel as plotted from two or more position lines.

Forestay: the foremost stay, running from the masthead to the stemhead, to which the headsail is hanked.

Freeboard: vertical distance between the *waterline* and the top of the deck.

G

Genoa: a large headsail, in various sizes, which overlaps the mainsail and is hoisted in light to fresh winds on all points of *sailing*.

Gimbals: two concentric rings, pivoted at right angles, which keeps objects horizontal despite the boat's motion, e. g. compass and cooker.

Go about: to turn the boat through the eye of the wind to change tack.

Gooseneck: the fitting attaching the boom to the mast, allowing it to move in all directions.

Goosewing: to boom-out the headsail to windward on a run by using a *whisker pole* to hold the sail on the opposite side to the mainsail.

Ground tackle: general term used for anchoring gear.

Guard rail: a metal rail fitted around the boat to prevent the crew falling overboard.

Gudgeon: a rudder fitting. It is the eye into which the *pintle* fits.

Guy: a steadying rope for a spar; a spinnaker guy controls the fore and aft position of the spinnaker pole; the foreguy holds the spinnaker pole forward and down.

Gybe: to change from one *tack* to another by turning the stern through the wind.

Η

Halyard: rope used to hoist and lower sails.

Hank: fitting used to attach the *luff* of a sail to a stay.

Hatch: an opening in the deck giving access to the interior.

Hawes pipe: see Navel pipe.

Head-topwind: when the bows are pointing right into the wind.

Headfoil: a streamlined surround to a *forestay*, with a groove into which a headsail *luff* slides.

Heads: the toilet.

Headway: the forward movement of a boat through the water.

Heave-to: to *back* the jib and lash the tiller to *leeward*; used in heavy weather to encourage the boat to lie quietly and to reduce *headway*.

Heaving line: a light line suitable for throwing ashore.

Heel: to lean over to one side.

Isobars: lines on a weather map joining places of equal atmospheric pressure.

J

Jackstay: a line running fore and aft, on both sides of the boat, to which safety harnesses are clipped.

Jury: a temporary device to replace lost or damaged gear.

Κ

Keel: the main backbone of the boat to which a *ballast keel* is bolted or through which the *centerboard* passes.

Kicking strap: a line used to pull the boom down, to keep it horizontal, particularly on a reach or run.

L

Lanyard: a short line attached to one object, such as a knife, with which it is secured to another.

Leech: 1, the after edge of a triangle sail; 2, both side edges of a square sail.

Leehelm: the tendency of a boat to bear away from the wind.

Lee shore: a shore on to which the wind blows.

Leeward: away from the wind; the direction to which the wind blows.

Leeway: the sideways movement of a boat off its *course* as a result of the wind blowing on one side of the sails.

Lifeline: a wire or rope rigged around the deck to prevent the crew falling overboard.

Limber holes: gaps left at the lower end of frames above the *keel* to allow water to drain to the lowest point of the *bilges*.

List: a boat's more or less permanent lean to one side, owing to the improper distribution of weight, e.g., *ballast* or water.

Log: 1, an instrument for measuring a boat's speed and distance traveled through the water; 2, to record in a book the details of a voyage, usually distances covered and weather.

Luff: the forward edge of a sail. To luff up is to turn a boat's head right into the wind.

Luff groove: a groove in a wooden or metal spar into which the *luff* of a headsail is fed.

Lurch: the sudden roll of a boat.

Μ

Marlin spike: a pointed steel or wooden spike used to open up the strands of rope or wire then splicing.

Mast Step: the socket in which the base of the mast is located.

Measured mile: a distance of one nautical mile measured between buoys or *transits/ranges* ashore, and marked on the chart.

Member: a part of the skeleton of the hull, such as a *stringer* laminated into fiberglass hull to strengthen it.

Meridian: an imaginary line encircling the Earth that passes through the poles and cuts at right angles through the Equator. All lines of longitude are meridians.

Mizzen: 1, the shorter, after-mast on a *ketch* or *yawl*; 2, the fore and aft sail set on this mast.

Ν

Navel pipe: a metal pipe in the foredeck through which the anchor chain passes to the locker below.

Noon Sight: a vessel's latitude can be found, using a sextant, when a heavenly body on the observer's *meridian* is at its greatest altitude. The sight of the sun at noon is the one most frequently taken.

0

Off the wind: with the sheets slacked off, not *close-hauled*.

On the wind: close-hauled.

Out haul: a rope used to pull out the foot of a sail.

Overall length (OAL): the boat's extreme length, measured from the foremost past of the bow to the aftermost part of the stern, excluding bowspirt, self-steering gear etc.

Ρ

Painter: the bow line by which a dinghy, or *tender*, is towed or made fast. **Pintle:** a rudder fitting with a long pin

that fits into the *gudgeon* to form a hinged pivot for the rudder.

Pitch: 1, the up and down motion of the bows of a boat plunging over the waves; 2, the angle of the propeller blades.

Point of sailing: the different angles from which a boat may sail; the boat's *course* relative to the direction of the wind.

Port: the left-hand side of the boat, looking forward (opp. of *starboard*).

Port tack: a boat is on a port tack when the wind strikes the port side first and the mainsail is out to *starboard*. A boat on the port tack gives way to a boat on a starboard tack.

Position line/ Line of position: a line drawn on a chart, as a result of taking a bearing, along which the boat's position must be, i.e. two position lines give a fix.

Pulpit: a metal *guard rail* fitted at the bows of a boat to provide safety for the crew.

Pushpit: a metal *guard rail* fitted at the stern.

Q

Quarter: the portion of the boat midway between the stern and the beam; on the quarter means about 45 degrees *abaft* the beam.

R

Rake: the fore and aft deviation from the perpendicular of a mast or other feature of a boat.

Range: 1, see *transit;* 2, of tides, the difference between the high and low water levels of a tide; 3, the distance at which a light can be seen.

Rating: a method of measuring certain dimensions of a yacht to enable it to take part in handicap races.

Reach: to sail with the wind approximately on the *beam*; all sailing points between running and *close-hauled*.

Reef: to reduce the sail area by folding or rolling surplus material on the boom or *forestay*.

Reefing pennant: strong line with which the *luff* or leech *cringle* is pulled down to the *boom* when reefing.

Rhumb line: a line cutting all *meridians* at the same angle; the *course* followed by a boat sailing in a fixed direction.

Riding light to anchor light: an allaround white light, usually hoisted on the forestay, to show that a boat under 50 ft. (15m.)is at anchor. It must be visible for 2 mls. (3 km.).

Rigging screw: a deck fitting with which the tensions of standing rigging, e.g. stays, shrouds, etc. are adjusted.

Roach: the curved part of the *leech* of a sail that extends beyond the direct line from head to *clew*.

Run: to run with the wind *aft* and with the *sheets* eased well out.

Running rigging: all the moving lines, such as *sheets* and *halyards*,

used in the *setting* and *trimming* of sails.

S

Scope: the length of rope or cable paid out when mor anchoring.

Scuppers: 1, holes in the toe rail that allow water to drain off the deck; 2, drain cockpit through hull.

Seacock: a valve that shuts off an underwater inlet or outlet passing through the hull.

Seize: to bind two ropes together, or a rope to a *spar*, with a light line.

Serve: to cover and protect a *splice* or part of a rope with twine bound tightly against the lay.

Serving mallet: tool with a grooved head, used when serving a rope to keep the twine at a constant and high tension.

Set: 1, to hoist a sail; 2, the way in which the sails fit; 3, the direction of tidal current or steam.

Shackle: a metal link with a removable bolt across the end; of various shapes: D, U.

Sheave: a grooved wheel in a *block* or *spar* for a rope to run on.

Sheet: the rope attached to the *clew* of a sail or to the boom, enabling it to be controlled or *trimmed*.

Shrouds: ropes or wires, usually in pairs, led from the mast to the *chain plates* at deck level to prevent the mast falling sideways; part of the standing rigging.

Sloop: a single-masted sailing boat with a mainsail and one head sail.

Spar: a general term for any wooden or metal pole, e.g., mast or boom, used to carry or give shape to sails.

Spindrift: spray blown along the surface of the sea.

Spinnaker: a large, light, balloon shaped sail set when *reaching* or *running*.

Splice: to join ropes or wire by unlaying the strands and interweaving them.

Split pin: see cotter pin.

Spreaders: horizontal struts attached to the mast, which extends to the *shrouds* and help to support the mast.

Stall: a sail stalls when the airflow over it breaks up, causing the boat to lose way.

Stanchion: upright metal post bolted to the deck to support guardrails or lifelines.

Standing part: the part of a line not used when making a knot; the part of a rope that is made fast, or around which the knot is tied.

Standing rigging: the shrouds and stays that are permanently set up and support the mast.

Starboard: right-hand side of a boat looking forward (opp. of *port*).

Starboard tack: a boat is the starboard tack when the wind strikes the starboard side first and the boom is out to the *port*.

Stay: wire or rope which supports the mast in a fore and aft direction; part of the *standing rigging*.

Steerage way: a boat has steerage way when it has sufficient speed to allow it to be steered, or to answer the helm.

Stem: the timer at the bow, from the keel upward, to which the planking is attached.

Sternway: the backward, stern-first movement of a boat.

Stringer: a fore and aft member, fitted to strengthen the frames.

Т

Tack: 1, the lower forward corner of a sail; 2, to turn the boat through the wind so that it blows on the opposite sides of the sails.

Tacking: working to windward by sailing *close-hauled* on alternate *courses* so that the wind is first on one side of the boat, then on the other.

Tack pennant: a length of wire with an eye in each end, used to raise the tack of a headsail some distance off the deck.

Tackle: a purchase system comprising of rope and *blocks* that is used to gain mechanical advantage.

Tang: a strong metal fitting by which *standing rigging* is attached to the mast or other *spar*.

Tender of dinghy: a small boat used to ferry stores and people to a yacht.

Terminal fitting: fitting at the end of a wire rope by which a *shroud* or stay can be attached to the mast, a *tang* or a *rigging screw/ turnbuckle*.

Tide: the vertical rise and fall of the oceans caused by the gravitational attraction of the moon.

Toe rail: a low strip of metal or molding running around the edge of the deck.

Topping lift: a line from the masthead to a spar, normally the boom, which is used to raise it.

Topsides: the part of a boat's hull that is above the waterline.

Track: 1, the course a boat has made good; 2, a fitting on the mast or boom into which the slides on a sail fit; 3, a fitting along which a traveller runs, used to alter the angle of the sheets.

Transit: two fixed objects are in transit when seen in line; two transit give position fix.

Traveller: 1, a ring or hoop that can be hauled along a *spar*, 2, a fitting that slides in a *track* and is used to alter the angle of the *sheets*.

Trim: 1, to adjust the angle of the sails, by means of *sheets*, so that they work most efficiently; 2, to adjust the boat's load, and thus the fore and aft angle at which it floats.

True wind: the direction and speed of the wind felt when stationary, at anchor or on land.

Turnbuckle: see Rigging screw.

U

Under way: a boat is under way when it is not made fast to shore, at anchor or aground.

Uphaul: a line used to raise something vertically, e.g., the spinnaker pole.

V

Veer: 1, the wind veers when it shifts in clockwise direction; 2, to pay out anchor cable or rope in a gradual, controlled way.

W

Wake: the disturbed water left *astern* of a boat.

Waterline: the line along the hull at which a boat floats.

Waterline length (WL): the length of a boat from *stem* to *stern* at the *waterline*. It governs the maximum speed of *displacement hull* and effects a boats *rating*.

Weather helm: (opp. of lee helm).

Weather side: the side of a boat on which the wind is blowing.

Wetted surface: the area of the hull under water.

Whisker pole: a light pole used to hold out the *clew* of a headsail when *running*.

Winch: a mechanical device, consisting usually of a metal drum turned by a handle, around which a line is wound to give the crew more purchasing power when hauling taut a line, e.g. a jib *sheet*.

Windage: those parts of a boat that increase *drag*, e.g., rigging, spars, crew, etc.

Windlass: a *winch* with a horizontal shaft and a vertical handle, used to haul up the anchor chain.

Windward: the direction from which the wind blows; towards the wind (opp. of leeward).

Υ

Yawl: a two masted boat with a mizzen stepped aft of the rudder stock/ post.

FLOAT PLAN

1. Name of person reporting and telephone number:

2. Description of boat			
NAME	Т	YPE	
MAKE	LENGTH	REGISTRATION#	
HULL COLOR	STRIPE COLOR	DECK COLOR	
OTHER DISTINGUISHING	G MARKS		
3. Number of Persons at	ooard		
NAME	AGE	PHONE #	
ADDRESS			
NAME	AGE	PHONE #	
ADDRESS			
NAME	AGE	PHONE #	
ADDRESS			
4. Engine TYPE	H.P.	FUEL CAPACITY	
5. Safety equipment PFDs Flares Food Water 6. Radio TYPE		Flashlight	
	FREQUENCIES		
7. Trip Expectations DEPARTURE TIME	DATE	FROM	
DESTINATION	RETURN DATE	NO LATER THAN	
8. Automobile: LICENSE #	STATE	MAKE	
COLOR	PARKED AT		
9. If not returned by-			
Contact the Coast Guar	d or-		
CALL -		AT-	

EXPLANATION OF SAFETY PRECAUTIONS

This manual contains safety precautions that must be observed when operating or servicing your boat. Review and understand these instructions.

<u>A DANGER</u>

Denotes an extreme intrinsic hazard exists which would result in high probability of death or irreparable injury if proper precautions are not taken

WARNING

Denotes a hazard exists which can result in injury or death if proper precautions are not taken

CAUTION

Denotes a reminder of safety practices or directs attention to unsafe practices which could result in personal injury or damage to the craft or components

SAFE BOATING TIPS

BE PREPARED

Take a safe boating course. In the U.S., contact your local Boating Industry for details.

Carry all safety equipment required by the laws that apply to your area. Requirements are generally available from the Coast Guard or your local boating industry.

WARNING

As the owner of the craft, obtaining and maintaining necessary safety equipment is your responsibility. For more information about equipment required, contact local boating authorities

MINIMUM RECOMMENDED SAFETY EQUIPMENT

- Required life saving equipment, including life vests and throwables.
- First Aid kit
- Anchor with sufficient line and/or chain
- Flashlight with good batteries •
- Binoculars
- Appropriate navigational charts
- Flares •
- Noise emitting device

Sufficient food and water provi-• sions

- Sunglasses and block
- Blanket •
- Oar(s)

The legally required on-board safety equipment may vary by region or body of water. Please check with local authorities prior to departure for a safety examination.

LIFE JACKETS

A life jacket may save your life, but only if you wear it. Keep jackets in a readily accessible place - not in a closed compartment or stored under other gear. Remove them from any packaging, and keep throwable floatation devices ready for immediate use.

WARNING

It is very important that children, handicapped people, and non-swimmers wear lifejackets at all times. Make sure all passengers are properly instructed in use of life saving gear

FIRE EXTINGUISHERS

Approved fire extinguishers are reguired on most boats, local authorities can provide details. All passengers should know the location and operating procedure of each fire extinguisher. Fire extinguishers are normally classified according to fire type. Be familiar with the type of fire extinguishers you have on board.

SAFE BOATING TIPS

FLARES

Most boats operating on coastal waters are required to carry approved visual distress signals, therefore check with your local authorities as to which types are required.

FIRE/EXPLOSION HAZARD; Pyrotechnic signaling devices can cause injury and property damage if not handled properly. Follow manufacturer's directions regarding the proper use of signaling devices.

DRUGS AND BOATING

Consumption of alcohol while boating is not recommended. The combination of noise, sun, wind, and motion act to produce fatigue on the water, and can exaggerate the effects of alcohol.

IMPAIRED OPERATION HAZARD Operating any boat while is intoxicated or under the influence of drugs is both dangerous and illegal. Impaired vision or judgment on the water can lead to accidents and personal injury

BEFORE GETTING UNDERWAY

- Leave a float plan (example included).
- Perform a pre-departure checklist (example included).
- Check the weather. Do not venture out if the weather is, or will be, threatening.

WHILE UNDERWAY

- Keep a good lookout. Keep a watch to the leeward under the headsail. Keep away from swimmers, divers, and skiers.
- Know and obey local boating laws.
- Respect bad weather, and be prepared for quickly changing conditions.

MARNING

COLLISION HAZARD Use extra caution in shallow water or where underwater/floating objects may be present. Hitting an object at speed or severe angle can seriously injure people and damage your boat

LAUNCHING & RETRIEVING PROCEDURES

LAUNCHING

1. Remove any and all tie down straps and ropes securing the boat to the trailer, as well as any lines securing the rudder in the upright position or on centerline. The only attachment of the boat to the trailer should be the strap from the bow eye to the trailer winch.

2. The spar can be raised before or after launch, depending on the time available before and the docking facilities available after launch. Beware of nearby power lines before raising spar.

3. Attach the necessary bow and stern mooring lines and fenders if necessary. Do not lower the fenders over the side until the boat is clear of the trailer.

4. Initially slacken the trailer winch and familiarize yourself with its gear switch action and return the winch to the locked position.

5. Load all loose gear and provisions aboard by lowering the swim ladder in the transom.

6. Back the boat and trailer down the ramp until the back wheels of the vehicle are just clear of the water, Retrieve the bow and stern lines as necessary. Loosen the trailer winch and bow strap.

7. Once the boat is floating free, push the boat clear of the trailer guides to the available dock, maintaining control with the mooring lines.

8. Slowly pull the empty trailer out of the water, being careful that boat and people stay clear.

9. Park the trailer and vehicle and return to the boat.

RETRIEVING

- 1. Raise centerboard and rudder.
- 2. Back trailer into water.

3. Maneuver boat between trailer guides and up to the winch.

4. Connect bow strap and with winch in correct gear, winch boat up and snug against bow stop.

5. Center boat between upright aft trailer guides.

6. Slowly pull boat from water until the weight of the boat is on the trailer.

7. Confirm alignment on trailer. Put trailer back in water if necessary to realign boat.

8. Make sure that rudder is pinned or tied in upright position so that the tip doesn't drag on ground.

9.De-rig and unstep mast if not already done. Beware of nearby power lines when lowering mast.

10. Tie boat to trailer, and secure mast.

GENERAL CARE

NOTICE

Your new Hunter is built using the ACP process. This is not a Fiberglass® boat!

The outer skin is a weatherable ABS plastic known as Luran® S and is built by BASF. The outer plastic skin is approximately .170" thick.

CLEANING LURAN® S SURFACES

Luran® S (acrylonitrile/styrene/acrylate) should be cleaned regularly. Normal accumulations of

dirt can be removed simply by occasional rinsings with water. If your boat is operated in salt water, more frequent rinsing will be required. To remove dirt, grease or oil, use soap and water or isopropyl alcohol. For stubborn stains, you can use mineral spirits but never leave a rag with mineral spirits on it lying on your boat.

You can wax the surface if you would like, but be aware this will make the boat slippery. For light scratches you can use a wax with a light rubbing compound or a mirror glaze which is available at any hardware store. For more extensive repairs, contact the factory.

When storing, please open the drain plugs so the boat can breathe. When trailering make sure the boat is well supported so as not to

dent the hull.

CAUTION

Never leave a rag with mineral spirits sitting on the boat as this will attack the plastic and void the warranty. Never use acetone or other solvents. They will damage the finish on your boat.

CLEANING ACRYLIC

Use only mild soap and water to clean acrylics. Do not use products containing solvents such as ammonia, which is found in many window cleaners.

CAUTION

Use care when cleaning acrylic. Dry cloth and many glass cleaners will scratch. Solvents will attack the surface.

WARNING

Cleaning agents and paint ingredients may be flammable and/or explosive, or dangerous to inhale. Be sure to use adequate ventilation, and appropriate safety clothing (gloves, safety glasses, respirator, etc.).

GENERAL CARE

SHALLOW SURFACE SCRATCHES

Remove the scratches by lightly hand wet sanding the surface with 600 grit sandpaper. Sand only until the scratches are removed (to retain as much thickness as possible). This will create a dull surface. To improve the surface

COSMETIC DAMAGE

Cosmetic damage is defined as a problem that does not affect the overall structure of the part or area. They are usually appearance concerns, such as scratches, surface mars, and minor dents. It is very important to ascertain the full extent of the damaged area. If any jagged edges or cracks are present, see the consequential damage section.

Mask off the damaged area, lightly hand sand (220 grit) the damaged area to remove any surface ridges and to promote adhesion. Sand in

This type of damage can be holes, cracks, or large dents. Cracks, even those found around holes, must be prevented from growing. To do this, the ends must be found and blunted (by drilling small holes). Once this is done, the crack can be ground or routed into a V groove. This allows it to be filled easily and promotes a good bond. We suggest using a Dremel tool, being sure to work in a wellventilated area.

Mask off the damaged area and lay down a bead of Plexus adhesive in a 1:1 ratio into the damaged area, slightly under filling the V groove. gloss, sand the area with 1000 grit, then 1500 grit sandpaper. The surface should be starting to recover some of the gloss. To further increase the gloss level, polish the area with ultra fine polish (automotive polishes suitable for clearcoat).

one direction only. In a well-ventilated area, apply a thin layer of Plexus adhesive in a 1:1 ratio to the damaged area. After the Plexus has dried, smooth the area with a fine (220 grit) sandpaper. Now, apply a thin layer of MA310 Plexus or Marine Tex to fill in any imperfections, and allow to dry. Lightly sand with a 220 grit sandpaper, followed by a 400 grit sandpaper, then a 600 grit sandpaper. Finally, apply an Krylon Fusion to match the color.

CONSEQUENTIAL DAMAGE

The Plexus will expand as it hardens. Skim the excess Plexus (if any) from the repair area keeping it level with the surrounding area. Allow to dry for 1 hour. Sand the damaged area until the surface is flush with the surrounding area. Apply a thin layer of MA310 Plexus or Marine Tex to fill any voids. Allow the filler to dry, then wet sand with 220, 400, then 600 grit sandpaper.

After sanding the repaired area flush to the surrounding area, paint can then be applied. Recommended paints are 1501 Krylon Fusion 2320 gloss white.

SAFETY CONSIDERATIONS:

Use of solvents requires adequate ventilation,

keeping in mind that they are usually highly flammable. Use proper procedures to avoid injury. In some instances, the use of these materials is controlled. Check all regulations prior to using.

Keep in mind that a repair can only attempt to match the performance predicted in the original part. The repair may not be quite as strong or stiff as the original part. The overall part/system behavior has probably changed. Always follow all warnings and instructions given by the manufacturers of the products used for repairs.

This information is provided for your guidance only. We urge you to make all tests you deem appropriate prior to use. No warranties, either expressed or implied, including warranties or merchantability or fitness for a particular purpose, are made regarding products described or information set forth, or that such products or information may be used without infringing patents of others.

	HUNTER
	LIGHTNING WARNING
LIGHTNING STORM WARNING: 1. ALL WHIP ANTENNAS SHOULD BE TIED DURING STORM, UNLESS PART OF THE LIGHTNING PROTECTION SYSTEM. 2. PRECAUTIONS: DURING LIGHTNING STORMS: A. THE SHIPS OCCUPANTS SHOULD TAKE SHELTER INSIDE A CLOSED AREA OF THE BOAT. EXAMPLE: BELOW DECK. B. OCCUPANTS SHOULD NOT HAVE ANY BODY PARTS IN THE WATER. C. AVOID CONTACT WITH ANY COMPONENTS OF THE L.P.S. AND D. AVOID ALL CONTACT WITH ANY METAL OBJECTS. 3. SEE DIAGRAM BELOW FOR INFORMATION ON THE LIGHTNING PROTECTION ZONE. 4. IF LIGHTNING SHOULD STRIKE THE SHIP, INSPECT ALL ELECTRONICS, ELECTRIC GEAR, COMPASS AND L.P.S. SYSTEM FOR POSSIBLE DAMAGE. RECALIBRATE AS NECESSARY. NOTE: BEGIN CHECKING ELECTRONICS <u>AFTER</u> THE THREAT OF LIGHTNING HAS PASSED. FAILURE TO FOLLOW PRECAUTIONS MAY RESULT IN SEVERE INJURY OR DEATH	
PROTECTION ZONE H= HEIGHT OF MAST	

A.C.P.

ADVANCED COMPOSITE PROCESS

• ACP: The most innovative Boatbuilding process today

ACP is a plastic based process which uses and outer plastic skin, a central foam core and an inner fiberglass skin. The outer plastic skin is 1/4" thick and is a on extrusion of high impact resistant ABS and UV resistant plexiglas. The plastic components are formed by using a process known as thermoforming which uses a vacuum to draw heated plastic onto a mold.

Repairs can be made quickly, cleanly and easily using our two part patch kit. Should you have any questions, a Hunter service consultant can walk you through almost any repair over the phone.

• Send in the reinforcements

This plastic skin is then reinforced with a foam core by placing the plastic hull in a matched mold with a 1" gap between the plastic and the mold. Liquid foam is then injected into the void under high pressure. The foam expands, conforming to the shape of the hull, and becomes the middle layer of the composite.

The third strain consists of fiberglass cloth. The cloth in attached to the mold during the foaming process and is integrated into the hull as the foam expands.

• Benefits

- ♦ **Strength:** ACP is five times stronger than fiberglass and because there are no fiber to breakdown, the hull will not become "soft".
- ♦ **Cost:** the ACP process is less labor intensive resulting in a lower priced boat.
- ♦ **Environmentally Friendly:** The ACP process is much more environmentally friendly then fiberglass production. The amended Clean Air Act, which took effect in 1996, greatly restricted all fiberglass manufactured by putting a severe limit on styrene emissions.

DIMENSIONS, CAPACITIES, ETC.

DESCRIPTION:

H140

Lenght overall (LOA) — — — — — — — — — — — — — — — — — — —	14' 0" (4.29m)
Beam (MAX)	5' 10" (1.77m)
Draft: Centerboard up	6" (152.4mm)
Centerboard down	3' (0.91m)
Displacement — — — — — — — — — — — — — — — — — — —	225lbs (102kg)
Sail Area (TOTAL) ————————————————————	102sq. ft (9.48 sq.m)
Mast height	21' 6" (6.52m)
Engine (not supplied) size recom – — — — — — — –	2 H.P. MAX (1.4kW)
Maximum loading (Persons/Luggage) — — — — — — —	4 Persons + Luggage = 926lbs. (420kg)

▼ CAUTION ▼

Use a light colored material (white, tan, light grey) to cover your boat in order to minimize heat buildup and potential sun damage. Do not use a dark cover or dark shrinkwrap for storage.





H140 Standing & Running Rigging Specifications

H-140 LINE CHART

	ST	ANDARD LINE B	AG			(St. Headstay Only)
Mainsheet	Jib Sheet	Main Halyard	Outhaul	Vang	Roller Furling	Jib Halyard
3/8" @ 23'	1/4" @ 20'	1/4" @ 40'	3/16" @ 10'	1/4"LS @ 12'	5/32" @ 15'	1/4" @ 30'
		add shackle		add vang block		add shackle
23	20	40	10	12	15	30
				-		
Centerboard Cont	rol:			Roller Furler pigta	ils:	
	Shockcord (5' of 5	5/16")		Sails East	- 22 1/2"	
	line (6' of 3/16")			Neil Pryd	e - 17 1/2"	
				North - 17	7 1/2"	
Long Batten with	End:					
	North Standard M	ain:		Line Lengths for li	fting (3 point):	
		Top- 41 1/4"			2 @ 55"	
		Mid- 18 1/2"			1 @ 80"	
		Bottom- 18 1/2"			•	
	Performance: 47 3	5/8"		Hiking Strap: 57"	Finished Length	
		Neil Pryde: 35 1/2"			add 1-Dwyer eye s	strap
		Sails East: 47 3/4"			add 1- Harken eye	
					add 2-3' x 3/16" lii	ne

FORESTAY (1) 1/8 1×19

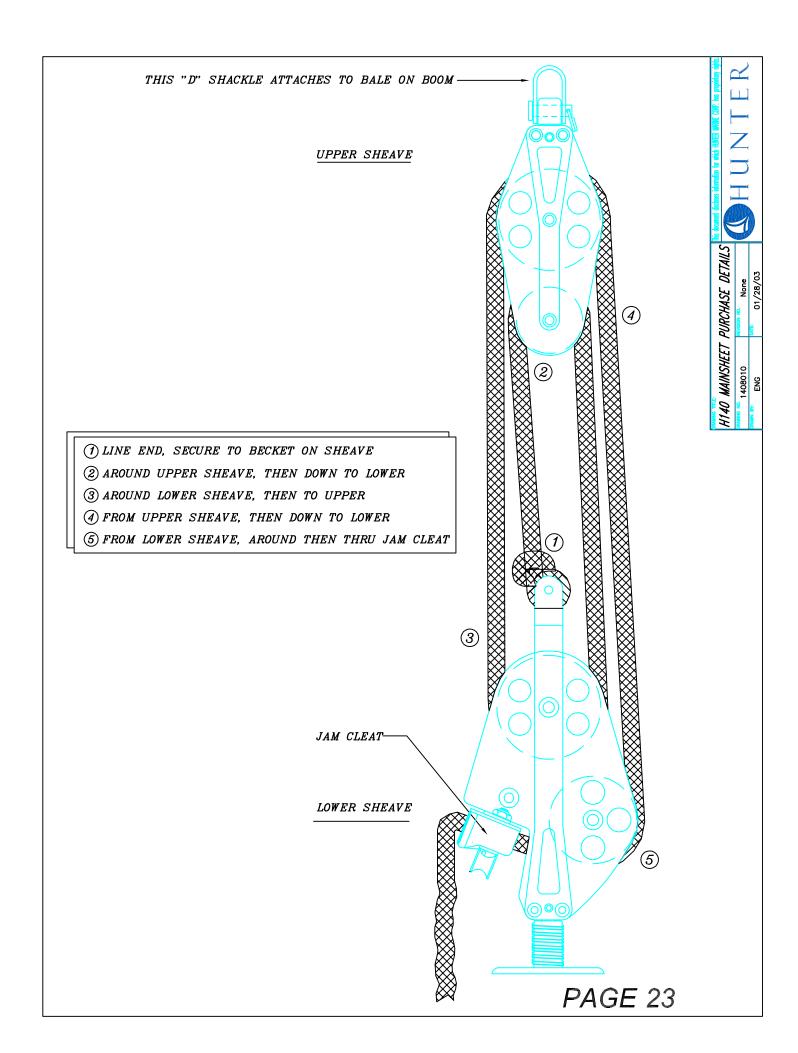
FORK W/PIN		MARINE EYE
	12/3-1/1/	

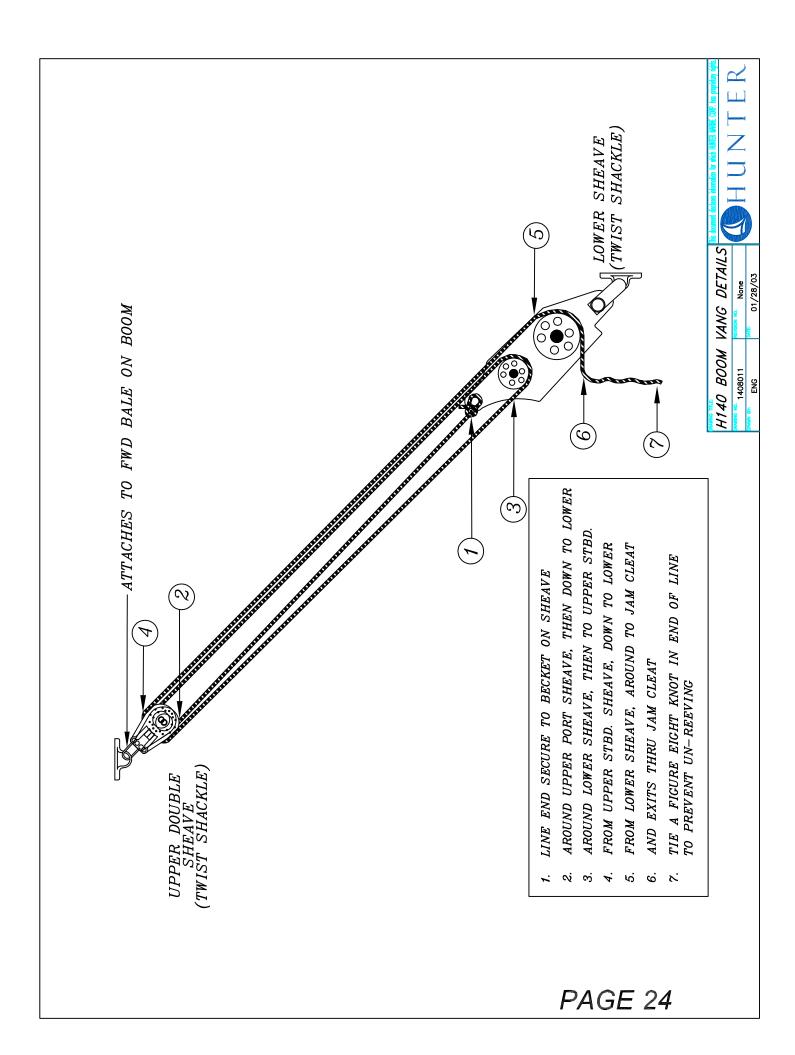
SHROUDS (2) 1/8 1×19

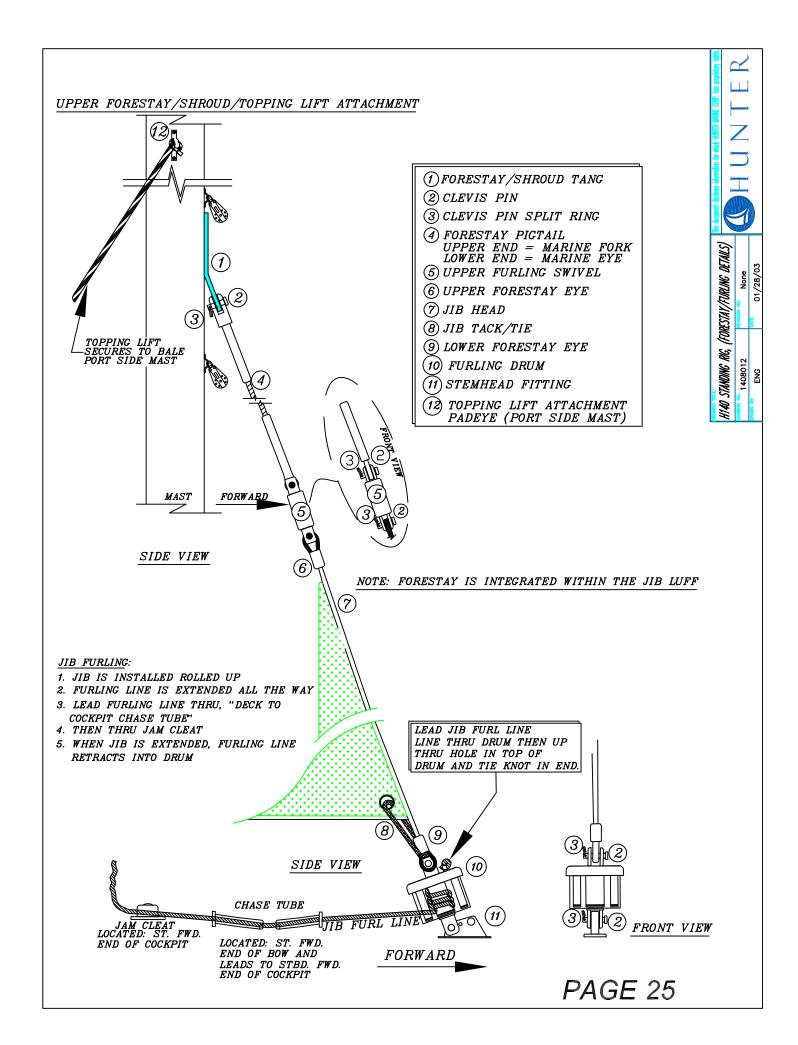
FORK W/PIN		EYE
FURK W/FIN	12/6//	L.L.
	12.0.	

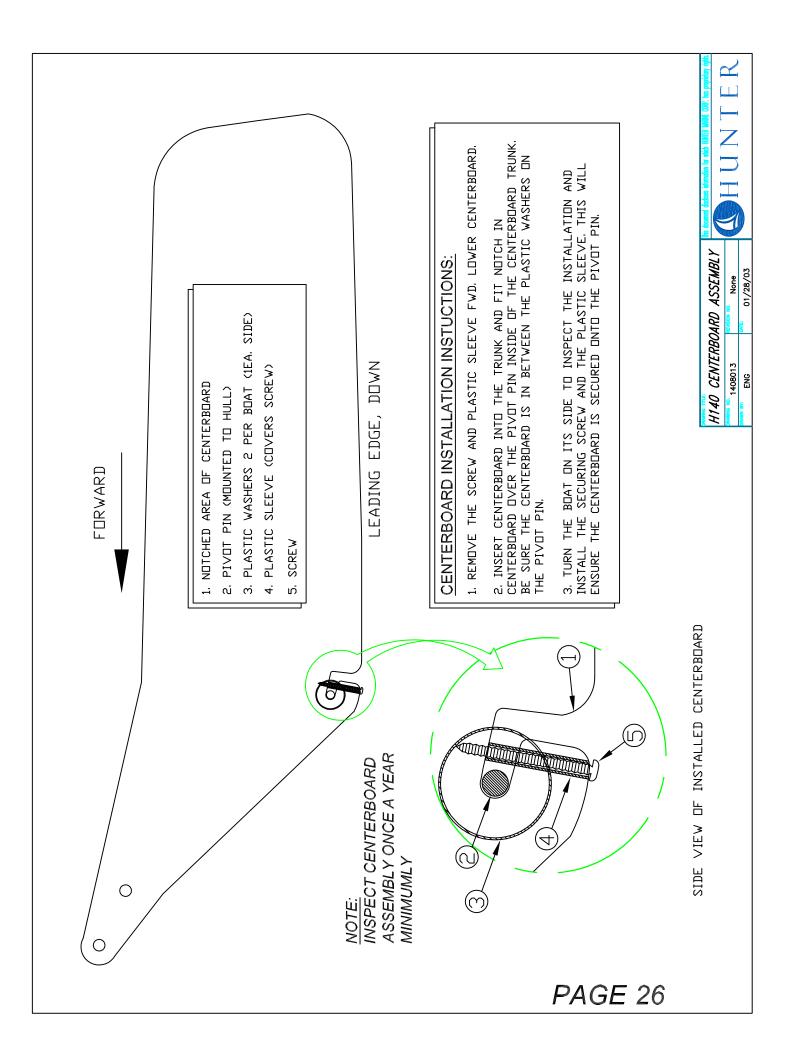
JIB FURLING TAIL

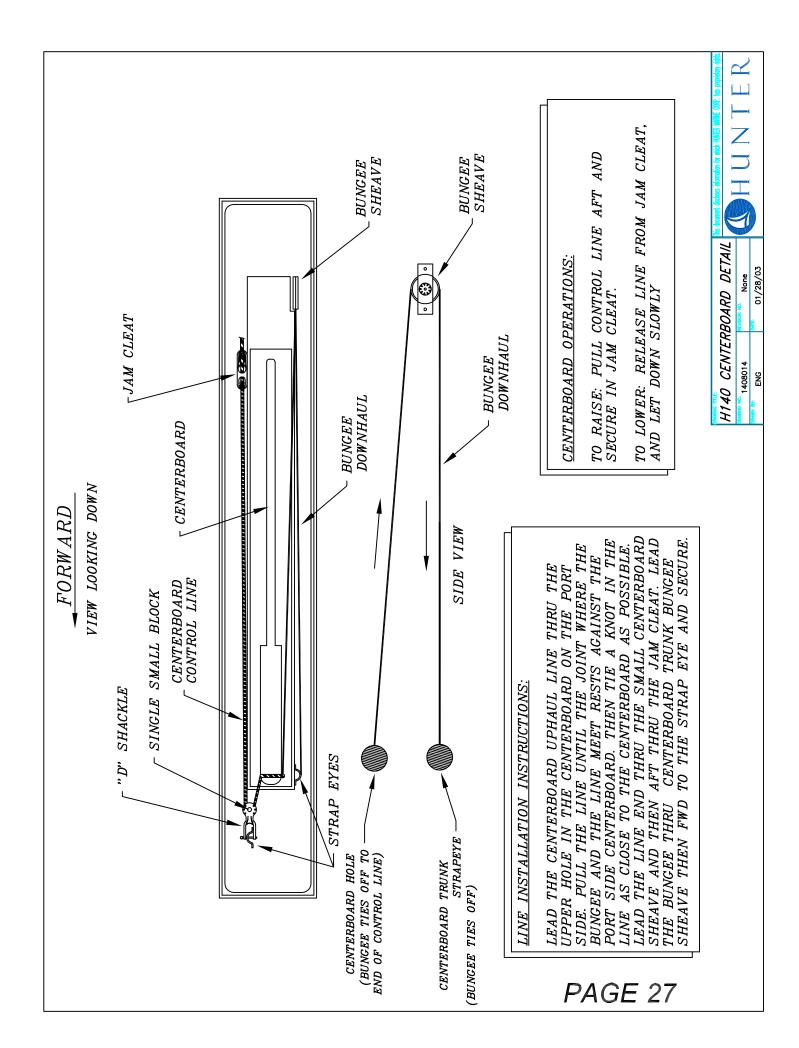
FORK W/PIN		MARINE EYE
	1'5-1/2''	

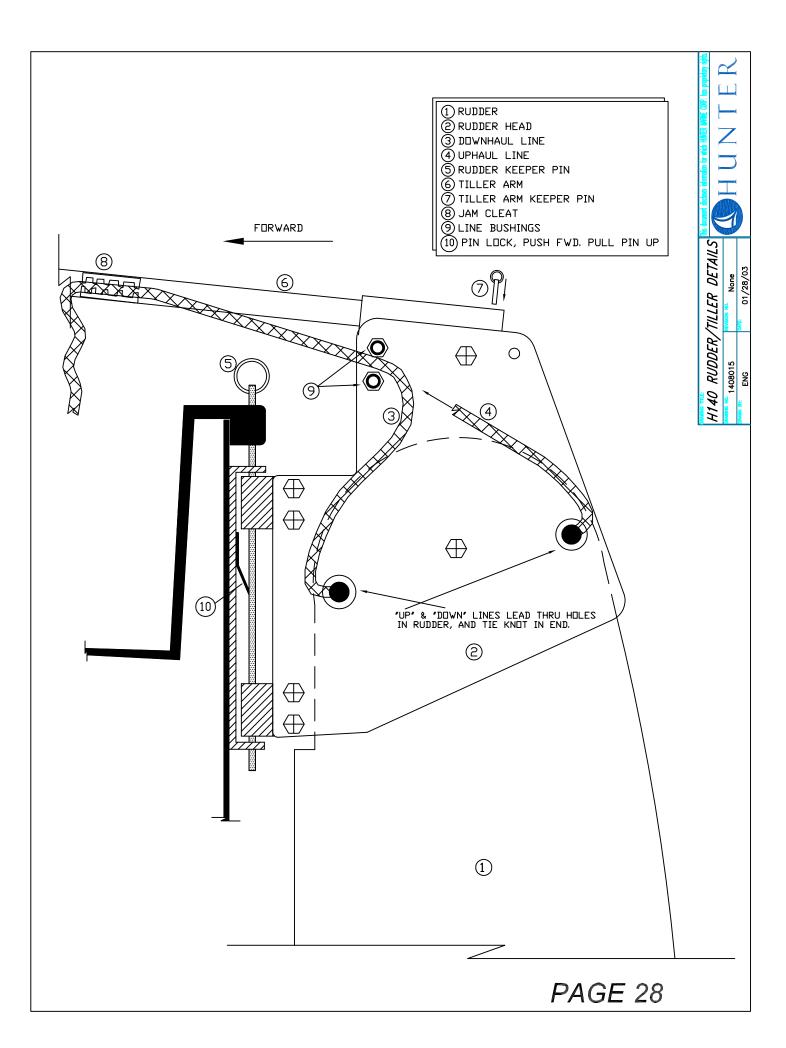


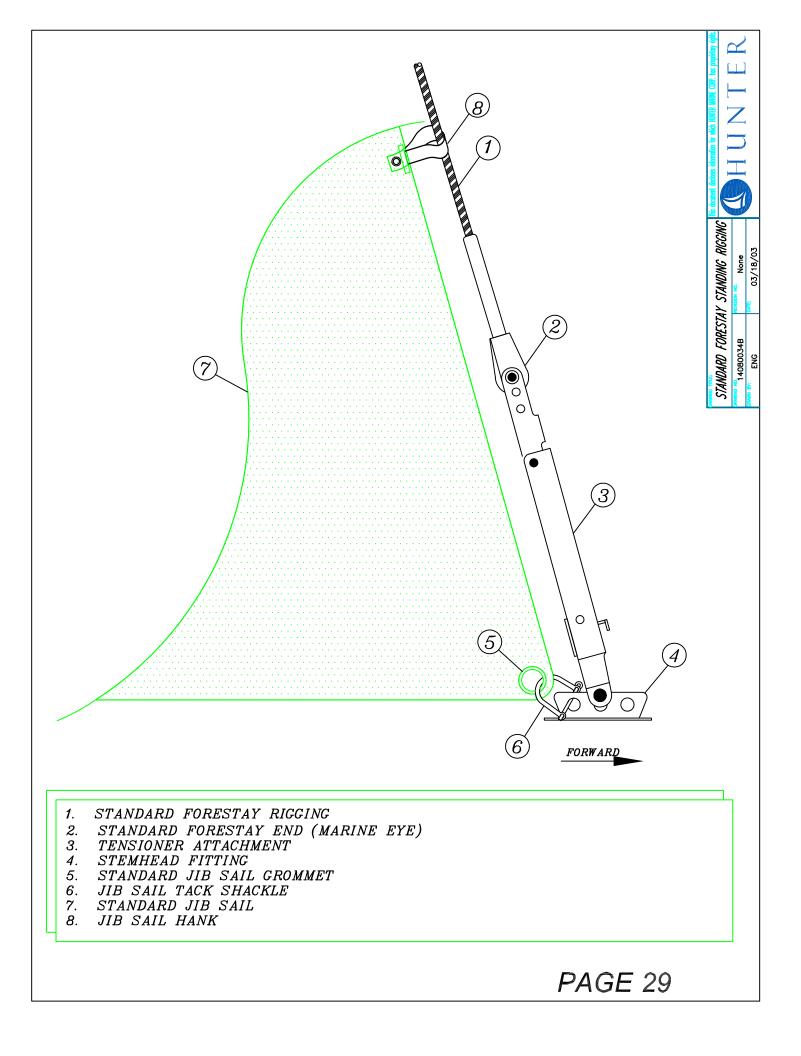












HUNTER 140 QUICK START GUIDE

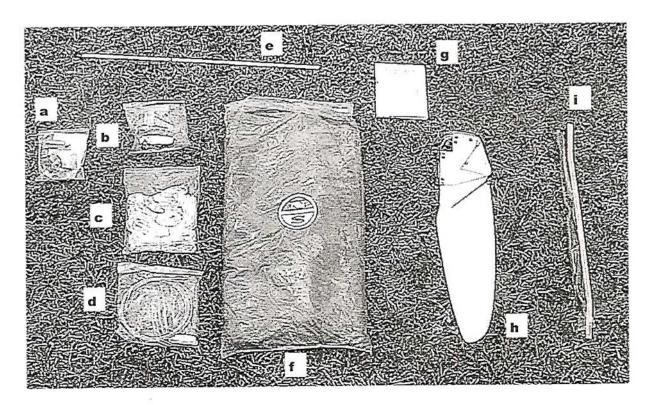
Introduction

Thank you for purchasing the Hunter 140. For your safety, comfort, and enjoyment it is very important to rig your new boat correctly the first time. Please follow the instructions carefully. This quick start guide assumes that you have a basic knowledge of sailboats and sailing. If you don't, find a friend who does to help you with the initial set up. Finally, this quick start guide is intended only to facilitate rigging and assembly, not as a sailing tutorial.

PREPARING COMPONENTS FOR RIGGING

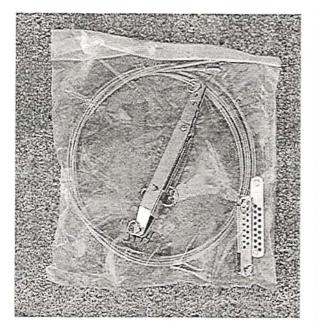
UNPACK AND IDENTIFY ALL PIECES

Caution: Do not use a knife to open rig box. The sails are packed inside and could be damaged.



a) [optional] jib furling kit b) mainsheet blocks c) running rigging bag [ropes] d) standing rigging [wires] e) batten f) sails g) owner's manual h) rudder i) tiller *see next page for close-ups of a,b,d

DETAILS OF PACKETS FOR STANDING RIGGING, MAINSHEET BLOCKS, AND OPTIONAL JIB FURLING KIT



STANDING RIGGING

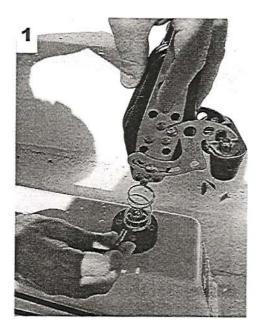
MAINSHEET BLOCKS



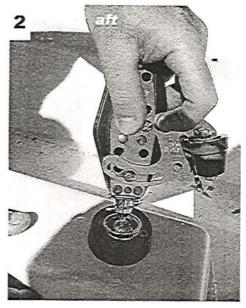
JIB FURLING KIT

INSTALL MAINSHEET BLOCKS ON HULL AND BOOM

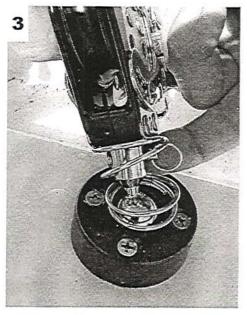
note: there will be an extra shackle included with the cleat block; you will not need it



place spring on base



Insert post on mainsheet block through swivel base and secure with clevis pin



attach ring to pin



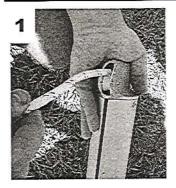
Shackle block to aft bale on boom



Insert pin and attach ring

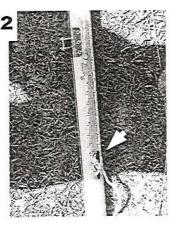
RUN HALYARDS AND INSTALL BOOM VANG BLOCK ON MAST

note: the boom block for the vang is already crimped to the vang line

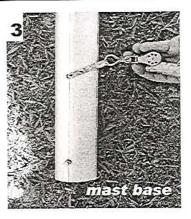


run main halyard so that the shackle side is aft, then run jib halyard through the block which is attached to the front of the mast (not pictured)

*the jib halyard is not included on roller furling boats

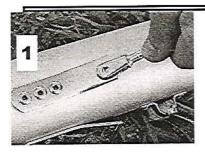


Secure halyards to cleat on mast to keep it out of the way

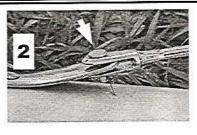


Shackle loose vang block to mast

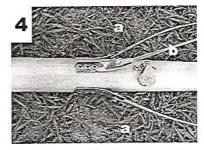
ATTACH STANDING RIGGING TO MAST AND TO ADJUSTERS



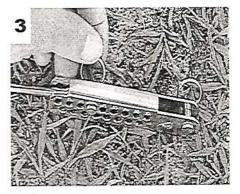
use the rigging jaw to slightly bend the tangs away from mast



Insert clevis pin through jaw and tang and fix with cotter pin



Do this for both shrouds (a) and headstay (b) *no headstay with roller furling boats

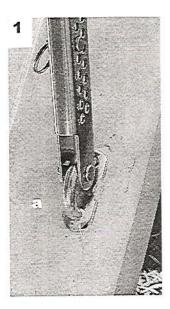


Attach adjusters to shrouds. Start with shrouds at hole position #4. It may be necessary to adjust later.

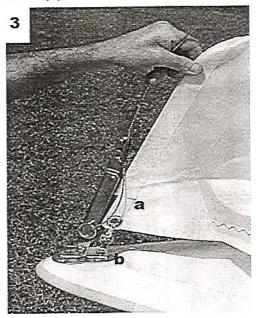
IF YOU HAVE A ROLLER FURLING RIG, TURN TO PAGE 7

RIGGING THE NON-FURLING RIG FOR SAILING CAUTION: MAKE SURE THERE ARE NO POWER LINES IN THE AREA

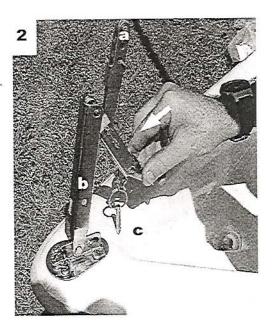
Note: before rigging, make sure the boat is secure on a trailer or dolly



Insert mast base into mast step (not shown) and attach shroud wires to port and starboard ubolts (a)



Attach tack of jib sail (a) to the aft hole in the stemhead fitting (b)

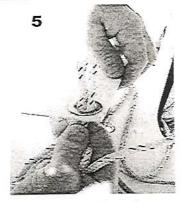


Raise mast, and pin headstay (a) to tensioner (b) then tension rig by closing lever. secure tensioner closed using pin (c) The wires should be tight but not extremely so. Adjust tension by raising or lowering shrouds in adjuster plates while tensioner is open.

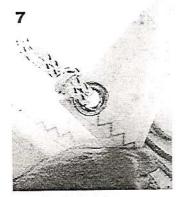
RIGGING THE NON-FURLING RIG FOR SAILING (cont'd)



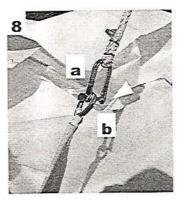
Fold jib sheet in half, loop in one hand and free ends in the other



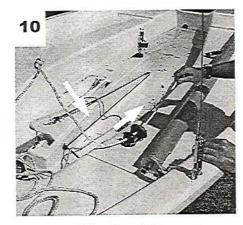
Insert looped end through clew eye of jib



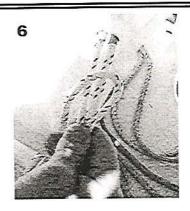
Pull tight



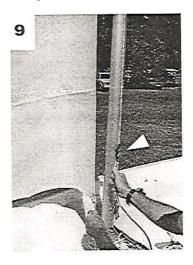
Attach shackle on jib halyard (a) to thimble in head of jib (b)



Pull ends of jib sheet through respective jib sheet cleats, making sure the sheets pass forward of the mast.

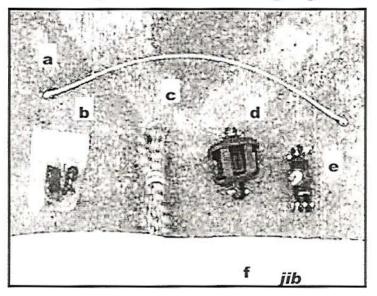


Bring free ends through looped end



Raise jib and tie off halyard on mast cleat

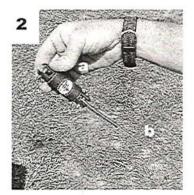
Components of furling rig



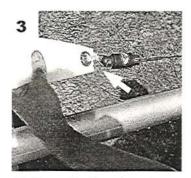
a) pigtail b) furling line cleat c) furling line d)furling drum e) swivel f) furling jib not pictured: instruction sheet for cleat



Attach pigtail (a) to headstay tang (b) Standard headstay is not used as it is incorporated into the luff of the furling jib

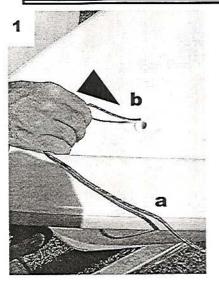


Attach furling swivel (a) to pigtail (b)



Using clevis pin, attach swivel to thimble on head of furling jib

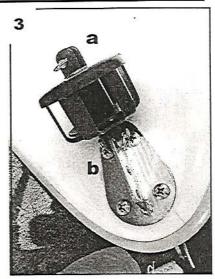
RIGGING THE FURLING RIG (cont'd)



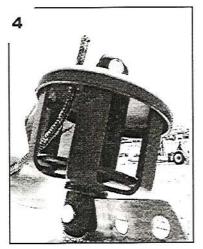
Feed furling line (a) into hole on deck (b) in bow of the boat



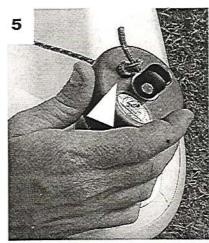
Pass line thru until it comes out in cockpit. Leave line protruding at both ends. Install cleat per instructions on sheet



Attach furling drum (a) to aftmost hole in stemhead fitting



Feed furling line up through drum and out the hole in top of drum



Tie a stopper knot in the end of the line to prevent it from slipping into drum



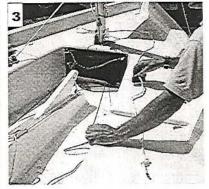
Wind line around drum approx 15 times in a counterclockwise fashion



Uncleat main halyard and raise mast with jib head attached

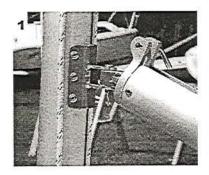


Using main halyard, one person pull mast forward until it is possible to attach jib tack to furling drum

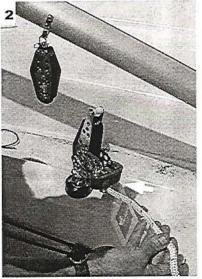


Run jibsheets through respective port and starboard cleats (as shown on page 6)

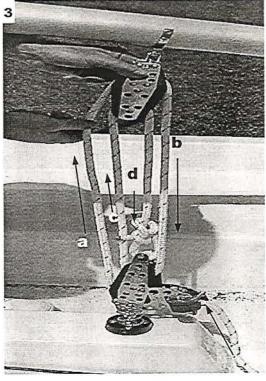
RIGGING THE MAINSAIL*(see note below)



Attach boom to gooseneck of mast



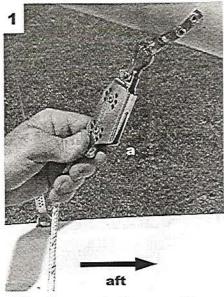
Pass sheet through block from cleat side



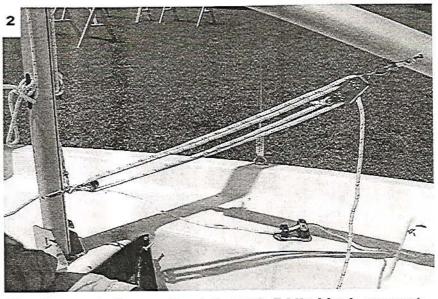
Run sheet through boom block as pictured, tie off on lower block

* note: due to variations in wire length, it is not possible to specify a setting for proper rig tension. It may be necessary to adjust the shroud position in the adjusters to achieve desired tension. The rig should be tight but not extremely tight.

ATTACHING BOOM VANG



Attach vang to boom with vjam(a) facing aft

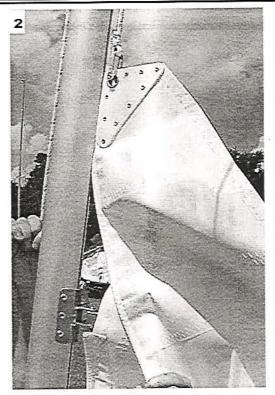


Run free end of vang sheet through fiddle block on mast as shown above. Vang may also be installed as shown on p. 29B-6 of the H140 owners manual.

RAISING THE MAINSAIL



Insert batten into sail and make sure boat is facing into the wind

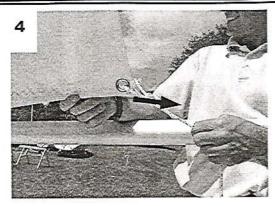




Raise sail and cleat halyard

Attach main halyard to mainsail head and feed sail into groove on mast

RAISING THE MAINSAIL (cont'd)

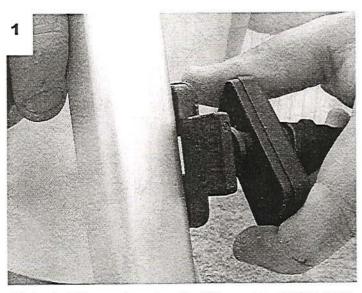


Tie outhaul to clew of mainsail and run through boom bale. (not pictured, located on aft end of boom) to tighten sail and raise boom. Make sure there is enough slack in the vang and sheet to allow for boom to rise

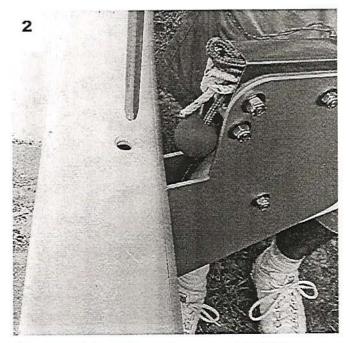


Pull outhaul forward through mainsheet bale and to outhaul cleat on boom. See owners manual for details.

INSTALLING TILLER & RUDDER (see owners manual for details of rudder assembly)

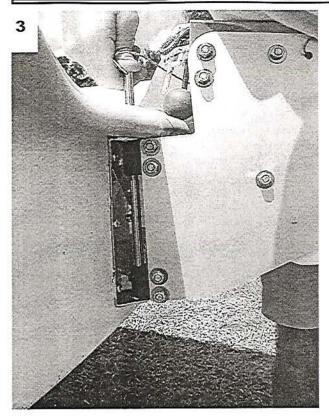


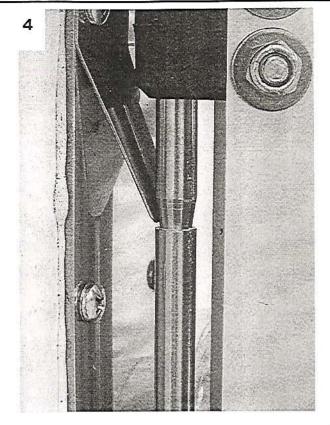
Attach tiller extension to tiller arm. Make sure male piece fits in female bracket so that the cap can cover both



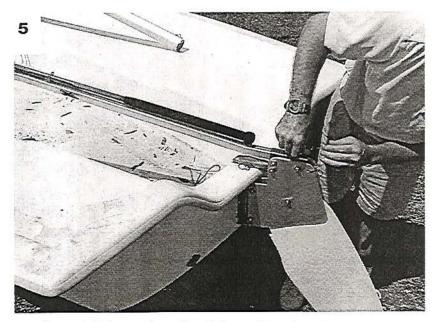
Place rudder into gudgeon assembly

INSTALLING TILLER & RUDDER (cont'd)





Insert pin through rudder assembly. Make sure pin groove drops below spring plate. (see next drawing for close up)



Insert tiller extension into rudder head and secure with small cotter pin.