

H U N T E R M A R I N E



3 4 0

HUNTER 340



Whether you are ready to set sail for the islands or just around the buoys, the Hunter 340 can really make a difference. Starting with the tall, fractional rig – which is a direct descendent of the B&R rig that powered *Hunter's Child* to a second place finish in the recent BOC – Hunter has engineered the mast to carry less weight aloft with smaller sections. This is accomplished by utilizing swept-back spreaders and reverse diagonals as well as mast support struts. This combination provides superior strength without a backstay and increases the stability at the same time. By using a large roach main as the power sail, Hunter has eased the effort in sail handling and allowed for real versatility for all wind and sea conditions. Your benefit: better performance with less effort.

The deck layout reflects the innovation that accompanies the rig. An integrated arch protects the cockpit from snapping main sheets and blistering sun with the optional bimini. This arch keeps the cockpit clear and open. A custom console stands ready with the standard VHF and instruments. Single lever control and fold down table along with engine instrumentation complete the command station. The swim platform and walkthrough transom complete with shower and folding ladder are perfect for water sports or for boarding the tender. Storage is everywhere you look and the non-skid is first rate.

Comfort is truly important aboard whether for a week or a year, so Hunter has created an interior that not only looks good, but works for you as well. Two private, large staterooms along with an enormous head with shower and a salon that can seat eight plus a gourmet galley will keep all the crew happy.

If you're looking for major comfort in a mid-size package and performance is important, then the Hunter 340 could be your answer. You owe yourself a test sail today!



The integrated arch keeps the cockpit clear with the traveler up top and makes a great attachment point for the optional bimini.



Headroom in the master stateroom is excellent. The queen-size berth is accompanied by two hanging lockers and plenty of stowage.



Custom consoles provide added space for instruments and the drop leaf table is perfect for entertaining.



Forward, the guest stateroom is totally private and will hold all the gear your family or friends would need.



The full service galley is U-shaped and Corian®-covered for beauty and durability. A hidden trash bin, full range with oven, microwave, and large Icebox is all standard; a Chef's Delight!



The covered marine head doubles as a shower seat in the enlarged head. Corian® counters and plenty of dry storage is a must.



Access to the 27 horsepower freshwater-cooled Yanmar is excellent on all four sides. The insulation will keep it quiet and cool.



The rounded cockpit is pushed right to the gunnels to provide maximum useable space.



All lines are led aft for short-handed sailing and the coaming wells keep it all organized.



The stainless steel anchor roller leads into a deep well that can handle all the chain and rode you need.

While everyone else was complaining about the high cost of marine hardware and accessories, Hunter was doing something about it. The Hunter Cruise Pac® was developed to make all the accessories and hardware you need standard equipment. We buy top-quality gear in very large quantities. The result? Equally large savings. The Hunter 340 Cruise Pac® Isn't just sails, winches, and running rigging – it's things like galley, anchor, fire extinguisher, running lights, life jackets – even a copy of US Sailing's *Basic Cruising Manual*. We invite you to compare the Standard Equipment list below with that of any other manufacturer. You'll discover that Hunter is going the distance for you with more – and better gear. For less.

RIGGING

- Large roach mainsail w/flaking system
- 110% furling genoa
- Furling system
- Mainsail cover
- Boom vang
- Single line reefing system
- Internal halyards led to cockpit
- (2) Sets triple line stoppers and organizers
- (2) Two speed self-tailing winches
- Anodized fractional rig w/support struts
- Inboard jib track w/cars
- Mainsheet on arch
- Windex® wind vane

DECK/HULL

- Stainless arch w/mainsheet
- Stainless bow pulpit
- Stainless stern rail with seats
- Double lifelines w/gates
- Stainless handrails
- Windshield
- Two-tone non-skid deck
- Anchor well w/space for windlass
- Stainless stem fitting w/anchor roller
- (5) Cockpit/transom storage lockers
- Integrated swim platform
- Stainless telescoping swim ladder
- (2) Dorade vents
- (4) Opening hatches w/screens
- (4) Opening ports w/screens
- (4) Fixed hull ports
- Through-bolted hull/deck joint
- One piece continuous rub rail
- (4) Dock cleats
- (2) Spring cleats
- Shoal or deep keel

COCKPIT

- Integrated wheel console includes:
 - folding cockpit table, S/S guard, drink holders, lighted compass, storage, wheel brake and single lever engine control
- Walk-through transom
- Hinging helmsman seat
- Wrap-around coamings
- Halyard stowage wells
- Hot/cold cockpit shower
- Manual bilge pump
- Stainless steel cockpit arch

ELECTRONICS

- VHF radio w/stainless antenna
- Knotmeter with log
- Depthsounder
- Stereo w/2 speakers

AUXILIARY POWER 3GM30FEU

- 27 hp Yanmar diesel, freshwater cooled
- 30 gal. (110 l) fuel tank

ELECTRICAL

- Dockside power w/cord
- Multiple AC outlets in cabin
- AC/DC switch panel
- Dual 12v battery switch
- Battery charger
- Electric automatic bilge pump
- Tank monitors
- Running lights w/steaming and anchor light
- Cabin lighting

CABIN

- Selected hardwood trim
- Hardwood cabin sole
- Fully enclosed head w/shower
- Molded vanity w/Corian® top
- 30 gal. (110 l) holding tank
- Hot/cold pressure water
- (3) Hanging lockers
- Private aft cabin
- Private forward cabin
- Dinette converts to double berth

GALLEY

- Corian® countertop
- Microwave
- Double stainless steel sink
- Hot/cold pressure water
- Two burner, LPG stove w/oven
- 75 gal. (285 l) freshwater capacity
- Icebox
- Dishware
- Built-in trash receptacle

GENERAL SAFETY GROUP

- Anchor and line
- (4) Life jackets
- Flares
- Throwable device
- (2) Fire extinguishers
- Emergency tiller
- US Sailing's *Basic Cruising Manual*

OPTIONS:

- Deep keel
- Arch-mounted bimini system
- In-mast furling
- Raytheon® Autohelm® GPS
- Raytheon® Autohelm® Windmachine
- Raytheon® Autohelm® 4000 autopilot
- Accord window shades
- Cockpit cushions
- Mainsheet traveler
- Electric anchor windlass
- Refrigeration
- Spinnaker winches
- Air conditioning



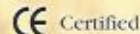
HUNTER®
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 AN EMPLOYEE OWNERSHIP COMPANY
WE GO THE DISTANCE

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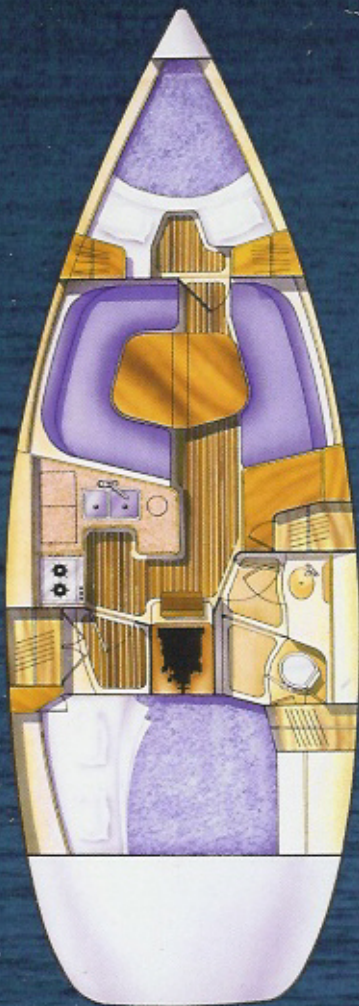


Marine Industry Certified Manufacturer



Certified by National Marine Manufacturers' Association

BR3400 2/01 6K



We Go The Distance.

The Hunter Marine Team is committed to crafting the best boat possible. To this goal we continue to develop innovative and affordable solutions to sailing's challenges, for this and the next generation of sailboats.

It is our desire that your time on the water be the basis of your fondest memories.



S P E C I F I C A T I O N S

Length Overall	
33'9"	10.29 m
Hull Length	
33'6"	10.21 m
Waterline Length	
28'7"	8.71 m
Beam	
11'8"	3.54 m
Shoal Draft	
4'6"	1.37 m
Deep Draft	
6'0"	1.83 m
Ballast	
4,100 lb	1,861 kg
Displacement	
11,030 lb	5,008 kg
Mast Height (From dwl)	
55'9"	16.99 m
Sail Area (Actual)	
682 ft ²	63.30 m ²
I	
43'0"	13.10 m
J	
11'6"	3.50 m
P	
44'0"	13.41 m
E	
16'0"	4.88 m
Headroom	
6'4"	1.93 m
Fuel Capacity	
30 gal	110 L
Water Capacity	
75 gal	280 L
Hold Tank Capacity	
30 gal	110 L
Water Heater	
6 gal	23 L
Auxiliary Power (Yanmar)	
27 hp	20.0 kw
CE Classification	
A	



HUNTER OWNER'S MANUAL

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- Marine Rigging Guide
- Winch Maintenance Manual
- Steering Maintenance Guide
- Sailmaker Information
- Water Strainer
- Bilge Pump
- Toilet Manual
- Stove Manual
- Hot Water Manual
- Microwave Manual (except where not provided)
- Other:

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HUNTER MARINE'S OWNER AND FOUNDER
WARREN R. LUHRS
BRIEF HISTORY

Born in 1944 in East Orange, New Jersey, Warren R. Luhrs' ancestry goes back to his great-grandfather, Henry, who helped pioneer railroading and clipper ships in America, and to his great-uncle, John, who helped build the famous St. Petersburg-to-Moscow railroad for Czar Alexander II.

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

The Luhrs' family sea tradition was carried on during the great depression by Warren Luhrs' father, Henry, who worked at a small boat manufacturer in Morgan, New Jersey, and later started his own company. When war broke out in Europe, the Coast Guard asked Henry Luhrs to repair their boats and install ice sheathing on their bows.

After World War II, 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. He constructed lap strake sea skiffs using assembly-line techniques. Henry personally "shook down" his prototypes with family trips up the Hudson River to Lake Champlain.

The sea skiff is a class of boat which 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 water line to increase stability in rough water or a following sea. Such skiffs can either be smooth-sided or of lapstrake construction.

Henry Luhrs' basic philosophy was to emulate the late Henry Ford in building an inexpensive boat for the average man, thus enabling him to enjoy the luxury of boating. He was both designer and engineer, creating innovative and progressive new models. He designed the change in the line of the bow from straight to curved at a time when all boats were being built with the straight square effect. It is believed he was also the first designer-builder to popularize a small boat with a fly-bridge.

In 1960, Luhrs acquired the Ulrichsen Boat Company, Marlboro, New Jersey. It was here, too, that the Luhrs' Alura Fiberglass Division was located. In 1965, Henry sold his company to Bangor Arrostock 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 Hunter Marine Corporation, Silverton Marine Corporation, Mainship Motor Yachts and Luhrs Fishing Boats with its Alura division. Hunter Marine produces sailboats while the other companies produce powerboats.

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

HUNTER MARINE LIMITED WARRANTY

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, Hunter will repair or replace any part judged to be defective by Hunter.

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. The obligation of Hunter under this limited warranty is limited to the repair or replacement of hulls, that it determines to be structurally defective. This is your sole and exclusive remedy.

Hunter also warrants to the first-use purchaser and any subsequent owner during the warranty period that the boat will be free from gel-coat 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. Dur-

ing 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. Transportation, hauling, launching, bottom paint, storage, dockage, cradling rental, rigging and derigging, or other similar costs will not be paid by Hunter. It is recommended that the repair be done during a seasonal haul out for service or storage.

The following circumstances will void the bottom blister limited warranty:

- (1) If the gel-coat has been sanded, sandblasted, or suggested 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, gel-coat, 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.

HUNTER MARINE LIMITED WARRANTY

RESTRICTIONS APPLICABLE TO WARRANTIES (continued)

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY AND ALL OTHER REMEDIES AND WARRANTIES EXPRESSED AND IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS. SOME STATES OR COUNTRIES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THE PURCHASER ACKNOWLEDGES THAT NO OTHER REPRESENTATIONS WERE MADE TO HIM OR HER WITH RESPECT TO THE QUALITY AND FUNCTION OF THE BOAT.

ANY CONSEQUENTIAL DAMAGES WHICH MAY BE INCURRED ARE EXCLUDED AND JUDGED DEFECTIVE BY HUNTER. SOME STATES OR COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL 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 OR COUNTRY TO COUNTRY.

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 returned to Hunter within fifteen (15) days of delivery. Responsibility for sending the completed Registration Form remains with the dealer.

Return to 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

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. The transfer of the ownership of the boat will not extend the expiration dates of the limited warranties.

HUNTER MARINE LIMITED WARRANTY

EPOXY BARRIER COAT

Should a customer wish to have an epoxy barrier coat applied to his hull, example Interlux Interprotect 1000, 2000 or West systems or Vc Tar, this will not void the five Year Blister Warranty.

Hunter Marine refers to epoxy barrier coatings as mentioned above, not epoxy primer paints.

If an epoxy barrier coat is applied to a Hunter vessel, it must be registered with the Warranty Department prior to application of the product. If the dealer applies bottom paint only, sanding will not be allowed and the no sanding system must be used.

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.

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 functions. Please take the time to study this manual and its recommendations for your sailing pleasure.

We stand behind the quality of your boat with a warranty which you should also review. To insure your warranty is valid, please fill out 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 first owners to be registered. The warranty data should also be recorded in the space below for your own reference.

This manual has been compiled to help you to operate your craft with safety and pleasure. It contains details of the craft, the equipment supplied or fitted, its systems, and information

on its operation and maintenance. Please read it carefully, and familiarize yourself with the craft before using it.

If this is your first craft, or you are changing to a type of craft you are not familiar with, for your own comfort and safety, please ensure that you obtain handling and operating experience before assuming 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 SECURE PLACE, AND HAND IT OVER TO THE NEW OWNER WHEN YOU SELL THE CRAFT.

You also need to fill out and mail the warranty cards on your diesel auxiliary, stove, head, electric water pump and other accessories. These are enclosed in the manufacturers' manuals which are included 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 COMMUNICATIONS.**

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		
STREET ADDRESS		
CITY	STATE/COUNTRY	ZIP CODE

A copy of *Chapman's Piloting, Seamanship and Small Boat Handling* is provided with your Hunter Marine boat as part of the standard equipment. Any questions regarding the meaning of terminology used in this manual may be referenced in your *Chapman's*.

GLOSSARY OF SAILING TERMS

A

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

B

Back: when a wind backs, it shifts counterclockwise.

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* which supports the deck; 3, on the beam means that an object is at right angles to the centerline.

Bear a way: 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 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 the *quarter*.

Bulkhead: partition wall in a boat normally fitted *athwartships*.

C

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 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 or 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 fitting 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 corner 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 planing 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 hold; 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

GLOSSARY OF SAILING TERMS

drawn into the hull, when entering shallow waters and recovering on to a trailer.

E

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 direction.

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

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

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 boats *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 keep 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.

H

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.

Hawse 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.

I

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.

K

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 triangular 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 is blowing.

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 travelled 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 the boat's head right into the wind.

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

Lurch: the sudden roll of a boat.

M

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 a fiberglass hull to strengthen it.

Meridian: an imaginary line encircling the Earth which 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.

N

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

GLOSSARY OF SAILING TERMS

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.

O

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

One the wind: *close hauled*.

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

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

P

Painter: the bow line by which a dinghy, or *tender*, is towed or made fast.

Pintle: a rudder fitting with a long pin which slips 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 the wind on which a boat may sail; the boat's *course* relative to the direction of the wind.

Port: the left-hand side of a 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 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 all-round 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. (3km).

Rigging screw: a deck fitting with which the tension of *standing rigging*, e.g. *stays*, *shrouds*, is adjusted.

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

Run: to sail 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 which allow water to drain off the deck; 2, drain cockpit through hull.

Seacock: a valve which 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 open 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 *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 wood 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 wires by unlaying the strands and interweaving them.

Split pin: see **Cotter pin**.

Spreaders: horizontal struts attached to the mast, which extend 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 *guard rails* or *lifelines*.

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

Standing rigging: the shrouds and stays which are permanently set up and support the masts.

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

Starboard tack: a boat is on the starboard tack when the wind strikes the starboard side first and the boom is out to *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 timber at the bow, from the *keel* upwards, to which the planking is attached.

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

GLOSSARY OF SAILING TERMS

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

T

Tack: 1, the lower forward corner of a sail; 2, to turn the boat through the wind so that it blows on the opposite side 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* which 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 principally by the gravitational attraction of the moon.

Toe rail: a low strip of metal or moulding 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 which 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 tension of the *sheets*.

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

Traveller: 1, a ring or hoop which can be hauled along a *spar*; 2, a fitting which 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 the 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 a 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 a *displacement hull* and affects a boat's *ratting*.

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 which 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*).

Y

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

EXPLANATION OF SAFETY PRECAUTIONS

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



DANGER

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 Coast Guard office for information. Outside 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 your local boating authorities.

MINIMUM RECOMMENDED SAFETY EQUIPMENT

- Required life saving equipment including life vests and throwables
- Required fire extinguishing equipment
- First Aid kit
- Emergency Position Indicating Radio Beacon (EPIRB)
- Manual bailing device
- Anchor with sufficient line and/or chain
- flashlight with good batteries
- Binoculars
- VHF radio
- Navigational charts for the appropriate areas
- Flares
- Fog bell
- Noise emitting device
- Radar reflector
- Sufficient food and water provisions
- Auxiliary starting battery
- Space fuses and bulbs
- Sunglasses and sunblock
- Blanket

The required safety equipment you must have on board may vary by region or body of water. Therefore, please check with the local boating authorities prior to leaving on your trip 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 their packaging, if so provided. In addition, throwable flotation devices must be immediately available for use.



WARNING

LIFE SAVING HAZARD: It is especially important that children, handicapped people and non-swimmers wear a life jacket at all times. Children and non-swimmers need special instruction in the use of life jackets.

FIRE EXTINGUISHERS


Approved fire extinguishers are required on most boats, therefore check with your local authorities. 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 what type of fire extinguishers are on boards.

EXPLANATION OF SAFETY PRECAUTIONS


FLARES

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

	WARNING
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

Do not drink alcohol while boating. The combination of noise, sun, wind and motion all combine to produce fatigue on the water. The effects of alcohol are greater on the water than on land.


	WARNING
IMPAIRED OPERATION HAZARD; Operating any boat while intoxicated or under the influence of other drugs is both dangerous and illegal. Impaired vision or judgment on the water may 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. This is especially true of sailboats. Keep a watch to 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.

	WARNING
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.	

PRE-DEPARTURE CHECKLIST

- Check bilge for excess water
- Check weather conditions and tides**
- Check food supply
- Foul weather gear
- Linen, sleeping bags
- Fuel
- Water
- Sunscreens and sunglasses
- Tools
- Docking and anchor gear
- Check radio operations
- Navigation charts and instruments
- Float plans to a friend or Coast Guard (See next page)**
- Fuel for stove
- Cooking and eating utensils
- Check battery water level
- Oil level, tight Vp-belts
- Check for loose electrical connections in engine compartment
- Secure tools or any loose equipment in engine compartment so as not to get fouled in engine
- AC systems off; electrical cord stowed
- Doors and drawers secured
- Check steering lock to lock
- Check mast for rigging irregularities and tightness
- Halyards and sheets are clear and ready to run
- No lines or other obstructions near the propeller or bow
- Anchor ready to run
- Check lifelines for tightness
- Turn on fuel and water lines
- Stow all loose gear
- Open engine cooling water intake thru-hull valve

FLOAT PLAN

1. Name of person reporting and telephone number: _____

2. Description of boat:

NAME _____ TYPE _____
MAKE _____ LENGTH _____ REGISTRATION # _____
HULL COLOR _____ STRIPE COLOR _____ DECK COLOR _____
OTHER DISTINGUISHING MARKS _____

3. Persons aboard:

NUMBER

NAME _____ AGE _____ PHONE # _____

ADDRESS _____

NAME _____ AGE _____ PHONE # _____

ADDRESS _____

NAME _____ AGE _____ PHONE # _____

ADDRESS _____

4. Engine:

TYPE _____ H.P. _____ FUEL CAPACITY _____

5. Safety Equipment:

PFDs Flares Mirror Flashlight
 Food Water EPIRB Raft/Dinghy

6. Radio:

TYPE _____ FREQUENCIES _____

7. Trip Expectations:

DEPARTING AT (APPROX. TIME) ON (DATE) FROM (LOCATION)
GOING TO (LOCATION) RETURNING (DATE) IN NO EVENT LATER THAN (TIME & DATE)

8. Automobile:

LICENSE # _____ STATE _____

MAKE _____ COLOR _____ PARKED AT _____

9. If not returned by _____, call the Coast Guard or: _____
at: _____

AFTER SAILING CHECKLIST

When leaving your Hunter at the dock for more than a short time, it is a good idea to review the following checklist to make sure everything is in order.

This will help protect the various parts of your boat and add considerably to their attractiveness and usable life.

- Flake or furl mainsail and cover, or remove and bag.
- Remove and stow all portable deck hardware such as snatch blocks, winch handles, etc.
- Secure the boom to the topping lift and set it firmly amidships with the mainsheet purchase. (It is also a good idea to rig a line from the steering wheel or tiller to a convenience cleat to keep the rudder from swinging back and forth with the motion of the water or employ the wheel brake if so equipped.)
- Attach the shackle ends of all halyards to convenient fittings and take up slack. Find a location leading away from the mast to keep the halyard from slapping the mast.
- Coil and stow all lines in line lockers.
- Cover the winches and steering pedestal when leaving the boat for several days or more.
- Close all fuel lines and seacocks.
- Switch off the electrical system.
- Pump out the bilge.
- Check air vents, secure ports and hatches, swab the deck, and clean deck stainless, particularly if you have operated in saltwater.
- Make a final check of mooring lines, chafing gear, fenders, etc.
- Cover windshield.

SAFE BOATING TIPS

DOCKING

Docking your boat should be handled carefully to avoid potential damage. Under normal wind and water conditions, the following considerations should be made:

1. Whenever possible, your approach should be made against the prevailing wind and current to assist in stopping the boat. Where these conditions are contrary, the strongest should be used to determine approach.
2. Approaching the dock: Dock lines and fenders should be at ready, loose gear stowed and decks cleared. Determine the direction of wind and current, and, once you decide which side of the boat will be against the dock, rig dock lines and fenders on the appropriate side. One dock line should be

attached to the bow cleat, another to the stem cleat opposite the side that will lie against the dock.

NOTE: If the boat is to lie against a piling, rig a fender board across two or more fenders.

3. Typing up: Attached bow and stern lines to dock, hauling boat in with fenders against dock. Rig crossing spring lines to limit motion forward and aft. Be sure to allow some slack in all lines to compensate for tidal activity if present. Never use bow rail, stern rail or stanchions to secure vessel, even for brief periods. For other types of moorings, or for abnormal wind or water conditions, consult your *Chapman's* or other approved boating guide.

ANCHORING

Your Hunter comes with an on-deck anchor well and a Danforth type anchor as standard equipment. The anchor is selected to suit the size and weight of your boat under normal anchoring conditions, and provides its best holding characteristic in muddy or sandy bottoms.

When anchoring, pay particular attention to the scope of your anchor rode (i.e., the relationship between the depth of the water and the length of the rode). A good rule of thumb is to allow a scope of about 7:1 (a rode seven times as long as the vertical distance from the bow to the bottom). A helpful aid is to mark the rode every 20 feet or so with knots or other types of indicators. Before dropping anchor, make sure the bitter end is secured to the cleat in the anchor well.

Also, be sure to consider wind direction, currents, mean low tide depths and other local conditions when anchoring, as well as the positions of any boats already anchored nearby.



CAUTION

Anchoring in unusual water and/or weather conditions will require additional precautions. Consult your *Chapman's* or other approved guide for suggestions.

To weigh anchor, motor or sail (under main only) forward slowly. When at a point directly above the anchor, a quick tug should free it from the bottom. Take care not to damage the topsides when hauling.

SAFE BOATING TIPS

DIESEL ENGINE

An engine owner's manual is supplied with your boat and should be read thoroughly. The manual contains technical specifications, running instructions and a maintenance schedule on lubricants and fluids. For long engine life, follow routine maintenance schedules.

You should check engine oil, transmission fluid and coolant levels. Water, rust, scale and dirt will cause serious damage to the injectors on diesel engines. You should check your filters frequently and change when necessary. Check fuel line connections for proper tightness.



DANGER

EXTREME HAZARD: Carbon monoxide gas (CO) is colorless, odorless and extremely dangerous. All engines and fuel burning appliances produce CO as exhaust. Direct and prolonged exposure to CO will cause BRAIN DAMAGE or DEATH. Signs of exposure to CO include nausea, dizziness and drowsiness. Refer to BOATING SAFETY for more information.



WARNING

EXPLOSION/FIRE HAZARD - Fuel system connections that are too loose or too tight can leak, resulting in fuel loss, environmental pollution and explosion/fire hazard.

When you start your engine, run it a minimum of 15 minutes to bring it up to operating temperature. This insures that any condensation is evaporated. Your engine should "run-out" at 3/4 throttle at least once a month to clean out carbon buildup and moisture.

FUELING YOUR DIESEL ENGINE



WARNING

EXPLOSION/FIRE HAZARD

- Store flammable material in safety-approved containers. Keep containers in a locker designed by the boat manufacturer for that purpose. Never store flammable material in a non-vented space.
- Observe "No-Smoking" while fueling.
- run exhaust blower at least 4 minutes before starting engine. Check bilge and engine compartment for fumes.
- Keep ventilation system free of obstructions. Never modify the vent system.
- Fill less than rated capacity of tank. Allow for fuel expansion.
- If fuel enters bilge, do not start engine. Determine cause and severity. Contact a knowledgeable marine service to remove fuel. Do not pump bilge overboard. Contact Coast Guard for additional advise. (See *Environmental Considerations - Fuel & Oil Spillage.*)
- Inspect fuel system regularly for leaks.



CAUTION

Follow engine manufacturer's recommendations for types of fuel and oil. Use of improper products can damage the engine and void the warranty.

Notice: Use fresh fuel. Fuel that has been in a tank too long can form gum and varnish, which may affect performance.

Inspect diesel fuel filters regularly. Diesel fuel must be kept as clean as possible. Keep fuel tank full.

SAFE BOATING TIPS

STARTING YOUR DIESEL ENGINE

1. Visually check engine compartment to see that the throttle linkage, shifting controls, electrical connections and fuel lines are properly secured.
2. *Before each start* check oil in engine and transmission.
3. Insure that engine shut-off cable is properly secured and operating. Only on 340 and down.
4. Place the shift lever in the neutral position. Pull out the button beside the shift lever to disengage the shift. On single lever controls, life the collar under the shift lever knob and move the lever forward to advance the throttle for neutral warm-up.
5. Insert the starter key and turn to the "on" position.
6. Press the starter button and hold until engine starts, then release. The buzzer and/or light should then go off. **Press the starter button no longer than 5 seconds continuously.**
7. Allow cold engine to warm up a minimum of five minutes.
8. When warm-up is completed, return the hand lever to neutral position, and push the button back in to re-engage the shift. The shift is ready for shift and throttle operation.
9. Check that the lube oil pressure warning light and the charge lamp go off. If any of the warning lamps do not go off above, 1,000 rpm, the engine is malfunctioning and should be stopped immediately. Consult your nearest engine dealer.

NOTE: To stop engine at any time, pull "engine stop" lever all the way out. Not all engines are equipped with pull stops. 340 and down.



CAUTION

Follow engine manufacturer's recommendations for types of fuel and oil. Use of improper products can damage the engine and void the warranty.

MOTORING YOUR DIESEL ENGINE

Before departure, remember to unplug the shore power. When the engine is warm, but prior to releasing the dock lines, move the shift lever to forward and to reverse to insure that it engages properly. To increase RPMs, push throttle lever forward and pull back to decrease RPMs. **IMPORTANT:** When sailing, it is best to start the engine before the sails are lowered. This way, it is still possible to maneuver if the engine should not start.



CAUTION

Your rigging will conduct electricity. **Always check for overhead high tension wires before proceeding.** Once clear, you may increase your speed in a reasonable and safe manner as desired.

ELECTRICAL SYSTEM

Your Hunter is fitted with an electrical system designed for both AC and DC. While in port, you can operate any tool, appliance or other device designed to function on regular house current simply by plugging your dockside power cord into a convenient outlet on shore and turning your AC main breaker on.



WARNING

ELECTROCUTION HAZARD: If polarity is reversed, **DO NOT** use the shore power source. Immediately turn off the power source and disconnect the shore power cord. Reversed polarity is a dangerous and potentially lethal condition which may cause shock, electrocution, or death.

SAFE BOATING TIPS

ELECTRICAL SYSTEM (continued)

To minimize shock hazard, connect and disconnect cable as follows:

1. Turn off the boat's shore connection switch before connecting or disconnecting shore power cable.
2. Connect shore power cable at the boat first.
3. If polarity warning indicator is activated, immediately disconnect cable and have the fault corrected by a qualified electrician.
4. Disconnect shore power cable at shore outlet first.
5. Close inlet cover tightly.

DO NOT ALTER SHORE POWER CABLE CONNECTORS.

Storage: Your shore power cable set is intended for use outdoors. To prolong the life of the set, store indoors when not in use.

General: The metallic parts of your cable set are made to resist corrosion. In a salt water environment, life of the product can be increased by periodically wiping the exposed parts with fresh water, drying and spraying with a moisture repellent.

A soiled cable can be cleaned with grease cutting household detergent. A periodic application of vinyl protector will help both ends and cable maintain their original appearance.

In case of salt water immersion, rinse plug end and/or connector end thoroughly in fresh water, shake or blow out excess water and allow to dry. Spray with a moisture repellent before re-use.



WARNING

Do not allow your dockside power cord to come in contact with the water. Never operate any AC power tool or other electrical equipment while you or the device are in contact with the water, as this may cause electrocution resulting in shock or death.

When leaving port, disconnect the dockside power cord and turn the main DC breaker on. This allows you to use the ship's lights and other equipment designed to operate on direct current. Keep in mind that your DC power source is a 12-volt battery, just as with your automobile, and it must be charged regularly by operating the engine (or by running the battery charger, if you have that option installed). Unless a state of charge is maintained, there may not be enough power to operate the starter motor. Dangerous situations can result if the engine cannot be started when needed.

Make a regular visual check of batteries to insure proper water level and inspect terminals for signs of corrosion. If your boat sits for long periods without use, it is often a good idea to remove the batteries and attach them to a trickle charger to keep them fully charged and ready to use.



WARNING

EXPLOSION/FIRE HAZARD - Ensure adequate ventilation of battery to prevent buildup of gases, especially hydrogen.



WARNING

WHEN CHARGING THE BATTERY:

- Battery electrolyte contains sulfuric acid. Protect your eyes, skin and clothing. In case of contact, flush thoroughly with water and get prompt medical attention, especially if your eyes are affected.
- Batteries generate hydrogen gas which can be highly explosive. Do not smoke or allow flames or sparks near a battery, especially during charging.
- Charge the battery in a fully ventilated place.

SAFE BOATING TIPS

COOKING STOVE

LPG is a popular choice in cooking fuel aboard sailboats. LPG is an explosive gas however, and should be treated with great care. Please refer to the stove manual for detailed instructions.



WARNING

EXPLOSION/FIRE/ASPHYXIATION HAZARD

- Open flame cooking appliances consume oxygen. This can cause asphyxiation or death.
- Maintain open ventilation.
- Liquid fuel may ignite, causing severe burns.
- Use fuel appropriate for type of stove.
- turn off stove burner before filling.
- do not use stove for comfort heating.

FIRE/ASPHYXIATION HAZARD

Use special care with flames or high temperatures near urethane foam, if used in construction of your boat. Burning, welding, lights, cigarettes, space heaters and the like can ignite urethane foam. Once ignited, it burns rapidly, producing extreme heat, releasing hazardous gases and consuming much oxygen.

TOILET

IMPORTANT: When not in use, lever must be left in the "dry" position to prevent flooding.

Before using, please the lever in the "wet" position and pump slowly to partly fill and wet the inside of the bowl. Return to "dry" position.

After using, return the lever to the "wet" position for flushing and pump until the bowl is thoroughly cleaned. Continue with several more full strokes to flush discharge lines. Return lever to the "dry" position and pump slowly until bowl is empty.

NOTICE:

- there is a possibility of being fined for having an operable direct overboard discharge of waste in some waters. Removing seacock handle, in closed position, or other means must be used to avoid fine.
- It is illegal for any vessel to dump plastic trash anywhere in the ocean or navigable waters of the United states.



CAUTION


Do not place facial tissue, paper towels or sanitary napkins in head. Such material can damage the waste disposal system and the environment.

SAFE BOATING TIPS

PUMPS

All pumps should be checked frequently to insure proper operation. This is an especially important regular maintenance item since functioning of a pump could save your vessel from serious damage at some future time.

Bilge pump - Inspect all hoses for chafing and dry rot. See that the hose clamps are tight. Check that the bilge pump impeller area is clean and free of obstructions. Inspect electrical wiring for corrosion. Make sure float switch moves freely and is making an electrical connection.

	WARNING
SINKING HAZARD - Ensure proper bilge pump operation.	

	CAUTION
Run pump only as long as necessary to remove water. Running dry can damage pump motor.	

WATER SYSTEM OPERATION

Fill fresh water tank at deck fill. The tank filler cap will be marked "water". When tank is full, water will back up through the vent hose and exit through a vent located on the side of the hull. Use tank gauge for filling. D.C. main should be turned on first.

To activate the water system, turn on D.C. main, flip the "water pressure" switch on the electrical panel. This will start the pump and pressurize the system. When the pressure builds, the pump will shut off. With continued use of fresh water the pressure in the system is reduced, automatically restarting the pump. Make sure there is water in the system while pump is in operation to prevent damage to the motor. The pump will also run if there is a leak.


NOTE: Intermittent operation of the freshwater pump while all faucets are closed usually indicates a leak somewhere in the lines. Trace the lines to locate the leak and repair.


The water heater operates either on 120 or 240 volts AC or when the engine is running. To obtain hot water from the engine, it must run a minimum of one-half hour.

Pressure water pumps are the demand type. Once the circuit breaker switch is on, opening the faucet will produce water flow.

To operate shower, turn on hot and cold faucets until desired temperature is reached, while shower head is retracted at sink. Pull the shower head out and use. The faucets must be turned off to prevent system drainage.

Opening the faucet will allow the pump to empty the tank. Flushing the tank and lines will be necessary for winterization. Refer to Maintenance & Winterization section for more information.

	CAUTION
Run pump only as long as necessary to remove water. Running dry can damage pump motor.	

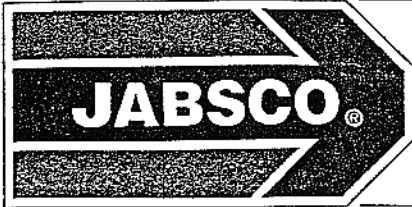
	WARNING
SINKING HAZARD - To ensure the safety of your vessel, always disconnect shore water and power connections when leaving your boat unattended.	

SAFE BOATING TIPS

WASTE DISCHARGE

The Hunter is equipped with a head waste holding tank, hose lines, and thru-hull fittings for either overboard discharge, using the standard equipped handpump, deck pumpout at dockside or Macerator Pump. Tank levels will be indicated on the gauge located below the main electrical panel. Famil-

iarize yourself with the locations of the deck pumpout, overboard discharge thru-hull, and vent locations pictured in the Waste Water System section, as well as your local boating regulations concerning the overboard discharge of raw sewage.



Model 45510-1000

TWO POSITION Y-VALVE

FEATURES

- Corrosion Resistant Polyester and Stainless Construction
- Includes Stainless Steel Locking Ring to secure valve in Holding Tank position
- Ideal for Marine Sewage and Bilge Pumpout Systems
- Full Port Openings

SPECIFICATIONS

Ports:	1-1/2" ID Hose
Body Material:	Polyester
Shipping Weight:	1.1 lb (0,5 kg)
Mounting:	No. 10 Screw (4)

APPLICATION

The Jabsco Y-Valve was designed for installation in on-board sewage handling systems and bilge evacuation systems.

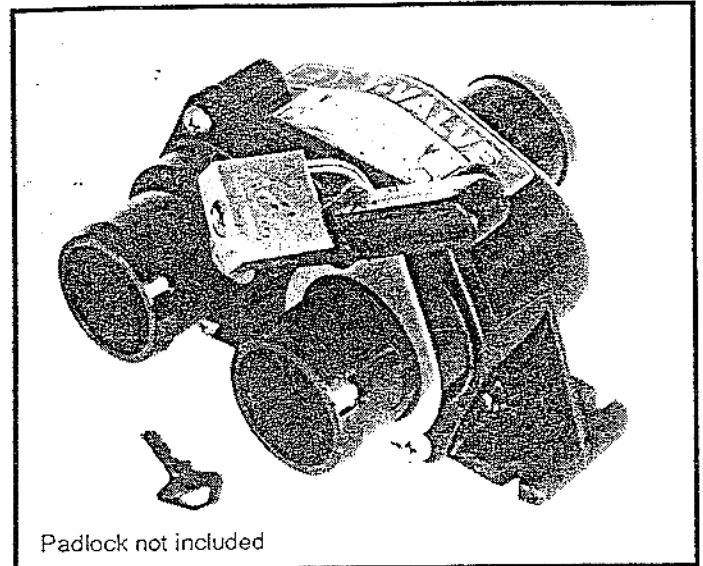
SEWERAGE SYSTEMS: Current U.S. Coast Guard Marine Sanitation Regulations allow the boat operator to discharge untreated human waste when outside the 3 mile coastal limit. When the Y-Valve is installed in the holding tank discharge line (diagram 1), it allows the operator to choose between pumpout through a deck fitting or directly through the seacock.

IT IS IMPORTANT TO NOTE THAT IT IS ILLEGAL TO DISCHARGE SEWAGE EFFLUENT THAT IS NOT TREATED TO U.S. COAST GUARD STANDARDS WITHIN THE 3 MILE COASTAL LIMIT. IT IS NOT ILLEGAL TO HAVE A SYSTEM THAT ALLOWS OVERBOARD DISCHARGE OF UNTREATED SEWAGE INSTALLED ON BOARD A BOAT AS LONG AS OVERBOARD SYSTEM IS NOT USED WITHIN THE 3 MILE COASTAL LIMIT.

Be environmentally responsible. Do not discharge waste in discharge restricted areas. Do not discharge bilge water contaminated with oil or fuel.

When the Y-Valve is installed in the marine toilet discharge line (diagram 2) it allows the operator to choose between storing the toilet discharge effluent in the holding tank, or discharging directly overboard (when legal).

BILGE SYSTEMS: For boats with 2 separate bilge areas, the Y-Valve allows the operator to pump out either bilge section with only one pump. By simply selecting the appropriate valve selector lever either of the 2 bilges can be evacuated. (Diagram 3.)



Padlock not included

Model 45510-1000

INSTALLATION

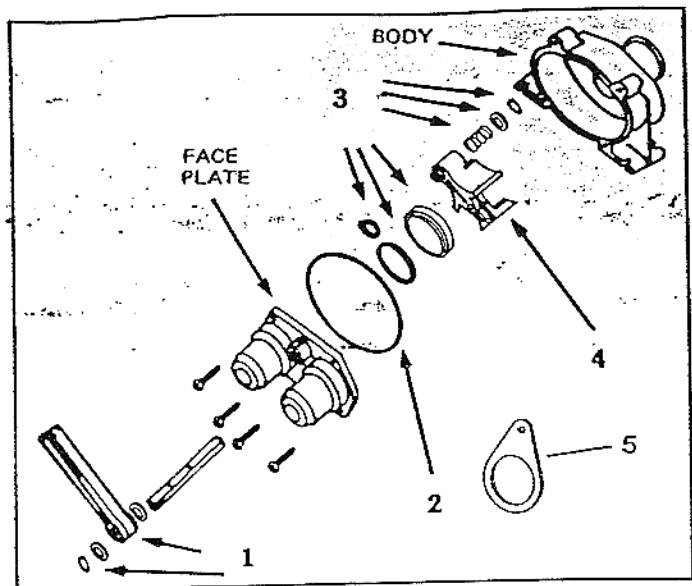
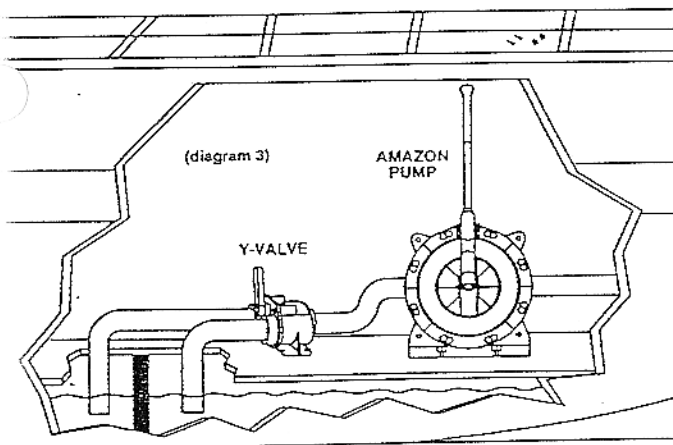
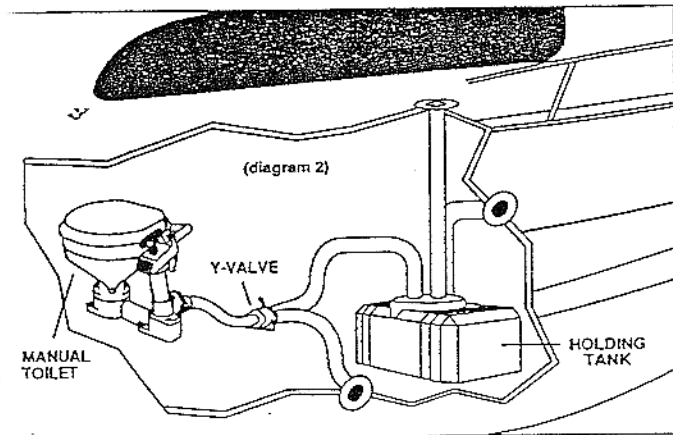
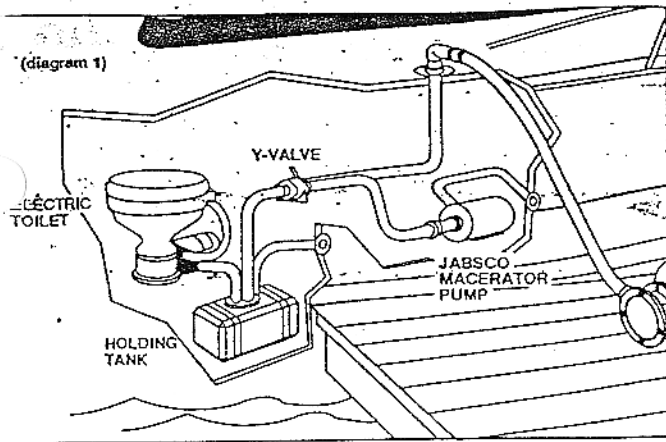
Lay out the system that the Y-Valve will be installed in so that all hoses can be installed without sharp bends, kinks or loops that trap fluids. After choosing a convenient, accessible location for the Y-Valve, be sure that there is adequate room to swing the selector lever. Mark locations for mounting screw holes. Be sure to choose a mounting location which is as flat as possible to prevent damage to the Y-Valve from mounting on uneven surfaces. Fasten the Y-Valve using #10 stainless steel fasteners. Before connecting hoses to the Y-Valve, position the selector lever locking ring on the port that is to be connected with the waste holding tank. This will allow the valve to be secured in the holding tank position with either a small padlock or wire seal when operating in no-discharge zones. Attach inlet and outlet hoses to the appropriate ports and secure with stainless steel band clamps.

It is recommended that all hoses used in waste systems should be the heavy, non-collapsible fabric reinforced hose. Vacuum cleaner type hose and vinyl hoses will collapse under the vacuum of a dockside pumpout system, or will allow sewer gas to permeate into the boat. All hoses should be double clamped with stainless steel band type clamps. Generally, sealing compounds are not necessary when making hose connections.

OPERATION

The Y-Valve is designed with a simple and positive diverter mechanism. When choosing the discharge hose system to use, simply orient the selector lever on the Y-Valve over the hose desired to be open to flow. When selecting the particular hose for flow, be sure that the lever is securely positioned against the positive stop. This will prevent bypass into the hose that has been chosen to be shut off. When fitted with a selector lever locking ring, the lever may be secured in the holding tank position by inserting a small padlock* (with 1/4" or smaller shackle) through the hole in the locking ring and the hole in the selector lever.

* padlock not included



PARTS LIST

Key	Description	Part Number	Qty.
1	Selector Lever ¹	45559-0000	1
2	O-Ring Gasket	45559-0001	1
3	Valve Seal Mechanism ²	45559-0002	1
4	Swivel Block	45559-0003	1
5	Locking Ring ³	45507-0001	1

¹ Includes Shaft Spring Retainer

² Includes Seal Disk and O-Ring, Shaft O-Ring, Shaft Spring, Shaft Snap Ring

³ To update an old style Y-Valve, order both a locking ring and selector lever-part numbers 45507-0001 and 45559-0000.

MAINTENANCE

If the Y-Valve becomes damaged or clogged with debris during service, it will be necessary to disassemble the unit. Empty all hoses and the Y-Valve of waste liquids and thoroughly flush the system with clean water. Re-flush the system with a water and bactericide mixture and flush again with clean water.

Remove all hoses from the Y-Valve and remove the Y-Valve to an area where it can be conveniently disassembled. Remove the 4 screws located on the face plate. Remove face plate and shaft/handle assembly from body. Remove all debris from the valve and inspect for damaged components.

If any parts of the shaft/handle, or port seal assembly need to be replaced, the shaft/handle assembly must be disassembled. **DO NOT REMOVE THE RETAINING RING AT THE SPRING END OF THE SHAFT.** Remove the retaining ring at the handle end of the shaft. **SLIDE** the handle and washers off the shaft and slide shaft and swivel block out of the bore in the face plate. Replace all damaged parts and reassemble items on the shaft. The spring must be compressed to allow the retainer ring to snap into the slot on the shaft. Reassemble the Y-Valve and reinstall in the waste system. **CHECK SYSTEM FOR LEAKS.**

THE PRODUCT DESCRIBED HEREIN IS SUBJECT TO THE JABSCO ONE YEAR LIMITED WARRANTY, WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.

ITT Jabsco

Division of ITT Fluid Technology Corporation

U.S.A. ITT Jabsco, 1485 Dale Way, P.O. Box 2158, Costa Mesa, CA 92628-2158; Tel: (714) 545-8251; Fax: (714) 957-0609

UNITED KINGDOM
ITT Jabsco
Wotton, Herts.

CANADA
ITT Fluid Products
Guelph, Ontario

JAPAN
NHK Jabsco Co., LTD.
Yokohama, Kanagawa

GERMANY
Mintec, GmbH
Norderstedt

ENVIRONMENTAL CONSIDERATIONS

FUEL AND OIL SPILLAGE

The spilling of fuel or oil into our waterways contaminates the environment and is dangerous to wildlife. Never discharge or dispose of fuel or oil into the water as it is prohibited and you could be fined. Two common, accidental types of discharge are --- overfilling the fuel tank, and pumping contaminated bilge water into the sea.



WARNING

EXPLOSION/FIRE/POLLUTION HAZARD - Fill fuel tank to less than rated capacity. Overfilling forces fuel out the tank vents which can cause explosion, fire, or environmental pollution. Also, allow for fuel expansion.

DISCHARGE AND DISPOSAL OF WASTE

Waste means all forms of garbage, plastics, recyclables, food, wood, detergents, sewage, and even fish parts in certain waters. We recommend that you bring back everything you take out with you for proper disposal ashore.

Your marine toilet holding tank must, in many areas, be pumped out by an approved pump-out facility, normally found at marinas.

EXHAUST EMISSIONS

Hydrocarbon exhaust emissions pollute our water and air. Keep your engine properly tuned to reduce emis-

sions and improve performance and economy.

ANTI-FOULING PAINTS

The use of anti-fouling paints is common for boats kept in the water. Be aware of environmental regulations that may govern your paint choice. These regulations may affect which paint may be used, and also the application or removal. Contact your local boating authorities for information.



WARNING

EXPLOSION/FIRE HAZARD - Ventilate when painting or cleaning. Ingredients may be flammable and/or explosive.

CLEANING CHEMICALS

Cleaning chemicals should be used sparingly and not discharged into waterways. Never mix cleaners and be sure to use plenty of ventilation in enclosed areas. Do not use products which contain phosphates, chlorine, solvents, non-biodegradable or petroleum based products.

Common household cleaning agents may cause hazardous reactions. Fumes can last for hours, and chemical ingredients can attack people, property and the environment.

INSTRUCTIONS FOR PREPARATION FOR BOTTOM PAINTING

WARNING!

Do not use any sanding, sandblasting or other abrasive preparation of the bottom as this will void your hull blistering warranty. More information on the warranty is available in this owner's manual.

BOTTOM PAINTING

Choose a bottom paint system that suits the environment in your area.

Follow the procedure recommended by the manufacturer of the paint, while making sure not to void the Hunter

Hull Blistering Warranty. The procedure for preparing for and painting the bottom varies between paint manufacturers, but should always include dewaxing, etching and sometimes priming of the surface.

EPOXY BARRIER COAT

Sanding of the gel-coat bottom surface will be permitted should a customer wish to have an epoxy barrier coat applied to the hull, (example Interlux Interprotect 1000, 2000, West system or VCTAR). This will not void the Five Year Blister Warranty.

Hunter Marine refers to epoxy barrier coatings as mentioned above, not epoxy primer paints.

If an epoxy barrier coat is applied to a Hunter vessel, it must be registered with the Warranty Department prior

to application of the product. If the dealer applies bottom paint only, sanding will not be allowed and the no sanding system must be used.



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.).

ENGINE, TRANSMISSION and DRIVETRAIN

ENGINE

Follow the fuel and lubrication requirements in the Engine Manual. Check the engine oil level before and after operation and use quality motor oil (refer to Engine Manual). Be certain the proper amount of oil is in the crankcase at all times.

Engine Alignment: The engine should be aligned by experienced marine service personnel. Final alignment should be done after launching, with all normal gear aboard. A description of the procedure follows:

The coupling flanges must come together evenly at all points, a feeler gauge is used to check the gap. If adjustment is necessary, the engine is tilted up or down and/or side to side until the flanges meet equally. Severe vibration will result from misalignment and can cause strut bearing and shaft damage. Alignment should be checked again after several weeks of use. Routine checks of coupling bolts are a must to ensure they are tight.

Shaft alignment:

Any questions or problems concerning the engine, please contact the U.S. distributor, Mack Boring at (201) 964-0700, or your local Yanmar service agent.

TRANSMISSION

Follow the lubrication requirements of the Engine Manual. The oil level should be checked immediately after operation.

STUFFING BOX

The stuffing box is held to the stern bearing by a rubber hose secured with hose clamps. (See the Shaft and Propeller section) The clamps should be tight and no water should leak from this location. While underway a slight drip from the stuffing box at the shaft exit is necessary (three to five drops a minute) and is normal.

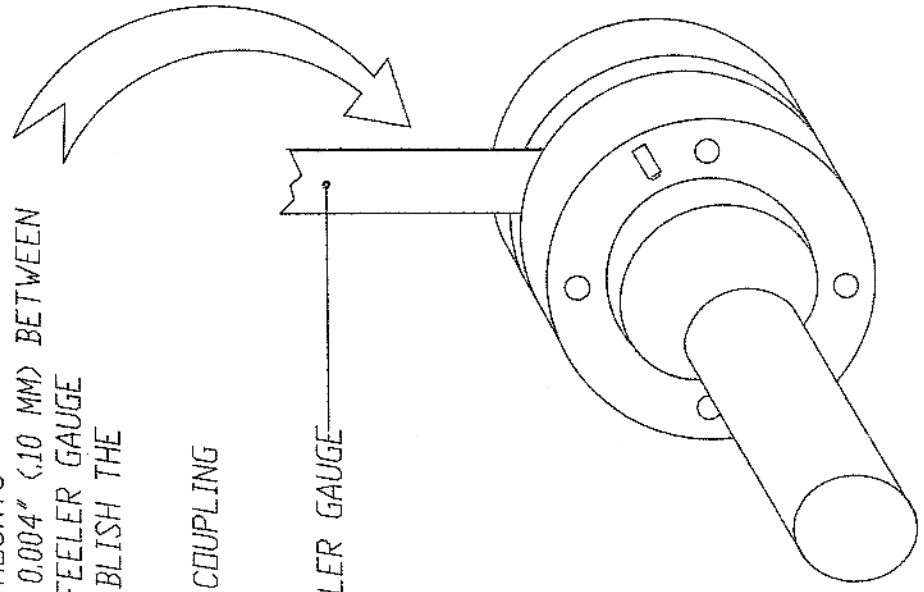
To adjust, loosed the locknut, tighten the gland nut one

quarter turn, and retighten the lock nut. If excessive water flow persists after adjustment, replace the packing with 3/16" (or 5mm) square flex packing and then adjust as above.

NOTE: Some models use a packless sealing system. Page 56 or Pages 56A, B, C reflects the type of stuffing box used on this model.

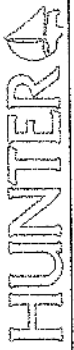
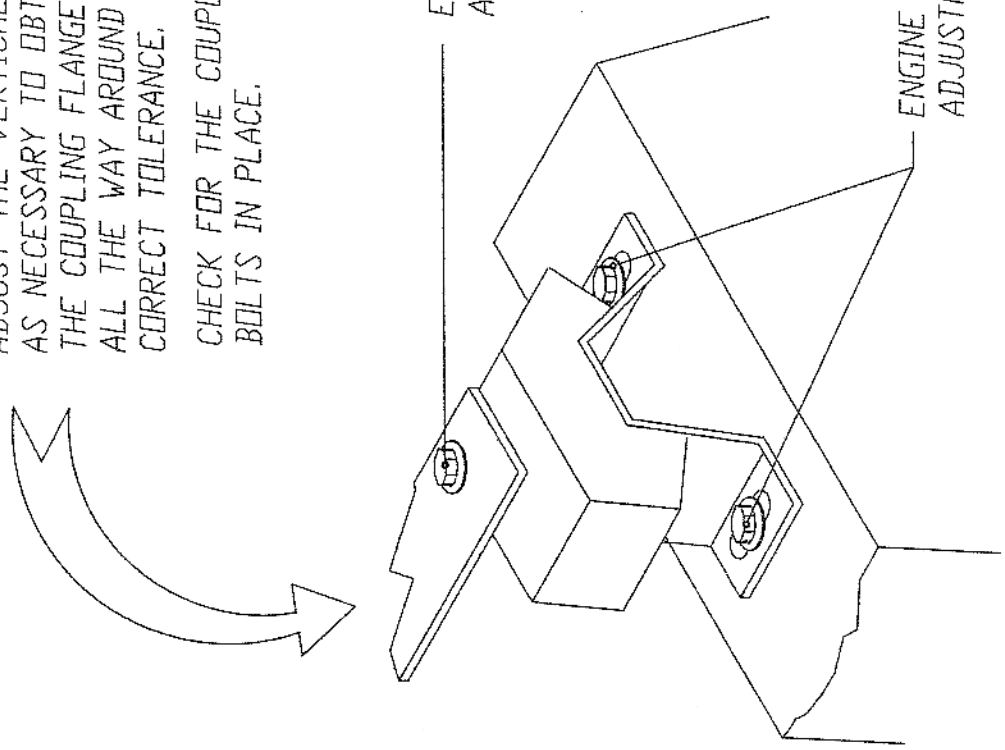
ADJUST THE VERTICAL & HORIZONTAL ENGINE MOUNTS AS NECESSARY TO OBTAIN A MAXIMUM GAP OF 0.004" (0.10 MM) BETWEEN THE COUPLING FLANGE FACES. USE A 0.004" FEELER GAUGE ALL THE WAY AROUND THE COUPLING TO ESTABLISH THE CORRECT TOLERANCE.

CHECK FOR THE COUPLING GAP WITHOUT THE COUPLING BOLTS IN PLACE.



ENGINE VERTICAL ADJUSTMENT

ENGINE HORIZONTAL ADJUSTMENT



MAINTENANCE

STEERING

Refer to the manufacturer's instruction for maintaining pedestal steering system. Cables should be routinely inspected for proper tension. Lightly oil all cables.



WARNING

CONTROL HAZARD - Inspect and maintain steering system regularly. An improperly maintained system may fail, causing sudden loss of steering control, resulting in personal injury and property damage.

ELECTRICAL SYSTEMS

The electrical system is a 12-volt, negative ground installation, plus a shore power system of either 110V or 240V. The owner should inspect batteries, terminals and cables weekly for signs of corrosion, cracks, and electrolyte leakage. Battery terminals are to be kept clean and greased. Refer to separate instructions on batteries, wiring diagram, and electronics.



WARNING

SHOCK/FIRE HAZARD - Replace breaker or fuse with same amperage device. Never alter overcurrent protection.



WARNING

SHOCK/FIRE HAZARD

- Disconnect electrical system from its power source before performing maintenance. Never work on the electrical system while it is energized.
- Electrical appliances must be within the rated amperage of the boat circuits.
- Observe boat carefully while the electrical system is energized. The only electrical components which can be left unattended are the automatic bilge pump, fire protection and alarm circuits.
- Only a qualified marine electrical technician may service the boat's electrical system.



CAUTION

- Turn off engine before inspecting or servicing battery.
- Disconnect battery cables before working on electrical system to prevent arcing or damage to alternator.

MAINTENANCE

COMPASSES

A boat compass rarely exists in an environment that is completely free from magnetic materials or influences.

The compass on your boat should be adjusted by a certified compass adjuster and have a deviation table made for it.

If you must depend solely on your compass for navigation, make a quick check for any objects near the compass that may cause additional, unmeasured deviation. Typical objects that may fall in this category include: knives, small radios, flashlights or other tools.

MAINTENANCE

PLUMBING SYSTEMS

All pumps should be checked frequently to insure proper operation. This is an especially important regular maintenance item since proper functioning of a pump could save your vessel from serious damage in the future.

Inspect all hoses for chafing and deterioration. See that hose clamps are tight. Check that the pump impeller area is clean and free of obstructions.

Inspect electrical wiring for corrosion. Make sure float switches move freely and are making an electrical connection

The owner should become familiar with the layout of the water and waste systems by walking through the boat

with the diagrams provided in this manual. It is especially important that the owner knows all thru-hull valve locations and inspects for leaks frequently. Refer to plumbing diagrams in Specifications and Technical section of this manual.

General Thru-hull List (varies from boat to boat --- see diagrams in Systems and Circuits section).

- 1) engine cooling system
- 2) Galley sink
- 3) Head Sink
- 4) Head toilet (water intake)
- 5) Holding tank discharge
- 6) Scupper drains

FUEL SYSTEM

The owner should inspect the condition of fuel lines for cracks or leaks. A primary source of fuel-related problems is water in the system. The owner should use only well maintained fueling facilities and make sure fuel fill caps are tightly secured after filling. Check and maintain fuel fil-

ters periodically. Refer to your Engine Manual for additional information. Periodically, add biocide to prevent bacteria and fungi from contaminating diesel fuel which may contain some water. Carefully follow manufacturer's instructions and clean filter regularly.

GENERAL CARE

CLEANING FIBERGLASS SURFACES:

Fiberglass surfaces should be cleaned regularly. Normal accumulations of surface 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 stubborn dirt, grease or oil, use a mild detergent and a soft brush. Rinse with clean fresh water. Avoid the plexiglass companionway slider, windshield, deck hatches and fixed ports when using a deck brush, since these surfaces can scratch.

It is a good idea to wax the fiberglass once or twice a year to maintain a deep, glossy appearance. Your local

marine supply should be able to provide an appropriate wax.



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.).

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.

MAINTENANCE

GENERAL CARE (continued)

SAIL CARE

Sunlight is a sail's worst enemy, so **cover the main sail when not in use.** (An ultraviolet guard, fitted down the leech of a roller headsail, will protect the exposed part from the weathering effect of the sun and from dirt and grit). Mildew, which discolors, is prevented by storing sails dry and by hand washing twice a season. Check all sails regularly for chafe, particularly where they chafe on deck fittings or rigging, at reef points, batten sleeves and

the foot of the headsail. Sail batten pockets should be inspected on a regular basis.

To stow the mainsail, start at the leech and flake it on top of the boom, left and right, in about 18-9in. (46-cm) folds, while pulling the leech aft. Secure with a sail tie and continue to the luff. Lash to the boom with sail ties or shock cord.

FABRIC CARE

Vinyl: Clean with mild soap and water. Wipe with vinyl or upholstery cleaner monthly, and especially before and after storage.

Leather: Mild soap and water. Blot dry. Do not scrub as this will stretch and scratch. Wipe with leather cleaner/oil to preserve and help prevent cracks before and after storage.

Fabric: Blot dry. Do not machine wash. Use only mild soap and water. Wipe with a clean white cloth. If stain persists, dry clean. Be sure to treat cleaned surfaces with

Scotch Guard. Stretched or loose covers may be steam cleaned. If foam is removed they will restuff easier if wrapped with thin plastic.

Storage: Cover with airflow fabric to reduce dust built up. Do not use plastic as this will cause cushions to sweat and mildew.

Cushions: If wet, prop cushions vertically to promote airflow around each cushion. Cushions can be cleaned by most dry cleaners. **Dry clean only.**

GENERAL HARDWARE MAINTENANCE

Check all fittings regularly to be sure screws are tight. Occasionally lubricate (use silicone lubricants) all moving parts on such fittings as blocks, turnbuckles and cam cleats, as well as the locking pins of snatch blocks, track slides, spinnaker poles, etc. Inspect cleats and fairleads

for roughness and smooth with fine grained emery paper if necessary. Also, replace any missing or damaged cotter pins in turnbuckles and shackles, and either tape them or use protective covers manufactured for that purpose. Grease winches a minimum of once yearly.



CAUTION

DO NOT USE ACETONE OR OTHER HARSH SOLVENTS TO CLEAN THE VINYL SOFT HEADLINER. USE A MILD DETERGENT WITH WATER.

MAINTENANCE

ELECTROLYSIS AND GALVANIC PROTECTION

Salt water allows electric current to flow from anodic to cathodic material. Any two metals from two components, and their relative positions in the galvanic rating table, will determine which loses material (the anode) and which remains largely undisturbed (the cathode). The rate of wear is determined by the distance apart on the galvanic table of two metals. Thus a sacrificial zinc anode is often fitted to the underwater area of a boat to attract any destructive currents away from bronze or steel propeller shafts, for example.

It is not enough to know that your boat does not suffer from electrolysis: a newcomer in the adjacent marina berth

may start a too-friendly association with metal components on it. An easy place to fit an anode is on the propeller shaft, or covering the propeller nut. The anode should not be painted because this will only defeat the purpose.

To prevent electrolysis in sea water, the difference between the voltage of two adjacent metals should not exceed 0.20V. Zinc and carbon steel, for example, used together, risk corrosion, while lead and active stainless steel are compatible. Metals with a high voltage corrode faster and need a larger area to diffuse the electrochemical reaction.

TEAK CARE

Teak wood is a high quality, extremely durable wood with a high oil content. In order to help you protect the original beauty of your teak interior, we have sealed the beauty of your interior with a 3 to 4 coat finish system of high quality Seafin Teak Oil, manufactured by *Dalys*, address below (wood finishing products). This material is a penetrating oil that dries to a low sheen to seal and protect

the wood from moisture and weathering. It creates a durable, nonslip surface to repel water and resist wear. It won't chip, peel or blister. It reduces work and maintenance cost because it is easy to maintain and repair. With proper maintenance it will outlive urethane varnish on interior and even exterior surfaces. (Floor, bulkheads, trim wood and furniture).

MAINTENANCE

When oiled surfaces require renewing, simply wipe the surface area free of loose dirt, dust or other contaminants. Dampen a cloth with the Seafin Teak Oil and wipe

on. Let stand for 5-15 minutes, then polish dry. If your dinette table has an epoxy finish, simply clean with furniture polish.

REPAIRS

When woodwork is damaged from scrapes or abrasions that go into or thru the finish, take the following steps:

1. Take 180 to 200 grit wet/dry sandpaper to smooth out rough spots.
2. Wipe clean of dust and dirt with a clean rag. Note --- before applying oil, wood surface must be dry.
3. Wipe or brush on oil, allow to penetrate 5-15 minutes while surface is still wet.
4. Sand until smooth with a 400A wet/dry sandpaper.
5. Wipe dry with a clean rag. Allow 8-12 hours drying time.

6. Apply second coat, sand, repeat above procedure.

This process may be repeated as many times as needed to bring damaged area back up to its original finish. If you have trouble with getting the same sheen, you may apply with a completely dampened/rung out cloth, a very light coat over this area and/or whole surface area to get an even sheen.

Dalys
3525 Stoneway North
Seattle, WA 98103

CERTIFICATION DETAILS

CE CERTIFIED

Your Hunter has been manufactured in the United States and has been certified by IMCI to be in compliance with the relevant parts of the Recreational Craft Directive 94/25/EC from the European Parliament. The CE mark means your craft meets or exceeds all current International Organization for Standardization (ISO) standards and directives in effect at the time of manufacture. The builder's plate (copy provided on page 35 of this manual), affixed to your boat, describes various parameters involved in the design of your boat. Please refer to it regularly when operating your boat.

Following are the Design Categories, established by the Recreation Craft directive, which is to be considered a guideline of use application as per the directive's criteria. This criteria is NOT established by Hunter Marine Corporation, and the category assigned is only a reference to the assigned category. The safety of the captain and crew of any vessel is not measurable by such categories, and you should not interpret these categories as an indication of your safety in such conditions. The skill of the captain and crew, together with proper preparation, appropriate safety equipment for the given conditions, and a well maintained vessel are critical to safe sailing.

CE CRAFT DESIGN CATEGORIES

Category A - "Ocean": Craft designed for extended voyages where conditions experienced may exceed wind force 8 (Beaufort Scale) and include significant wave heights of 4 m, for vessels that are largely self-sufficient.

Category B - "Offshore": Craft designed for offshore voyages where conditions up to and including wind force 8 and significant wave heights up to and including 4 m may be experienced.

Category C - "Inshore": Craft designed for voyages in coastal waters, large bays, estuaries, lakes and rivers, where conditions up to and including wind force 6 and significant wave heights up to and including 2 m may be experienced.

Category D - "Sheltered waters": Craft designed for voyages on small lakes, rivers and canals, where conditions up to and including wind force 4 and significant wave heights up to and including 0.5 m may be experienced.

For additional information, contact:

International Marine Certification Institute (IMCI)
Treves Centre, rue de Treves 45
1040 Brussels, Belgium
FX: (32) 2238-7700

NMMA CERTIFIED

Your Hunter has been judged by the National Marine Manufacturers Association (NMMA) to be in compliance with the applicable federal regulations and American Boat and

Yacht Council (ABYC) standard and recommended practices in effect at the time of manufacture.

For additional information, contact:

National Marine Manufacturers Association
200 E. Randolph Dr., Suite 5100
Chicago, IL 60611
PH: (1) 312-946-6200 FX: (1) 312-946-0388

STORAGE/WINTERIZATION

IMPORTANT

Winter storage is recommended to be done in one of the following three ways, either: 1) by blocking the boat via a cradle; or 2) with chained stands on level ground; or 3) by storing the boat in the water with a bubbler system to prevent icing. Damage to your boat, including engine misalignment caused by twisting, is not covered by the warranty.

SAILS

Sails should be properly folded and stowed in a dry, well ventilated place. Many sailboat owners send their sails back to the sail manufacturer at the end of each season. The sailmaker will check the stitching and sailcloth for wear and store the sails until the start of the next season.

ELECTRICAL

Remove battery from boat. (Refer to Engine Manual) and charge. It is a good idea to also remove the electronics (radio, radar, etc.) and store in a safe place.

CUSHIONS

Cushions should be removed and stored at home if possible. If not, prop them vertically to promote airflow around each cushion. *Dry Clean Only!*

HATCHES

Tenting the deck during storage will help prevent ice from forming and damaging hatches and deck fittings. The installation of a passive vent will help with ventilation while the boat is in storage.

WATER SYSTEM

Open a faucet and allow the pump to empty the tank. Then add approximately two gallons of nontoxic antifreeze solution to the tank and repeat the pumping out procedure.

A second method is to disconnect the hoses at the pump, allowing them to drain. Find the lowest point in the system and disconnect the fitting. Open all faucets to allow the lines to drain. If possible, use a short piece of hose on the faucet to blow through the lines to clear all water. A diluted solution with baking soda will help freshen the system.

WATER HEATER

Open valve and drain fully. Leave valve open during lay-up time.

TOILET AND HOLDING TANK

Drain and flush toilet. Using non toxic antifreeze in a 50/50 mixture with water, pump through toilet and into holding tank.

OUTBOARD ENGINE

Take it home and store it in a safe place. Be very careful storing the gas tank as the gasoline is very flammable. Refer to "Engine Manual" for specific maintenance schedule.

INBOARD ENGINE

Winterizing Fresh Water Cooled Diesel Engines

Step

1. Drain crankcase and transmission and refill with fresh lubricant as specified in owner's manual. Change oil filters.
2. Drain and clean all fuel filters and change elements, gaskets and seals. Bleed all air from fuel systems.
3. Start engine and bring up to operating temperature. Slowly remove the radiator cap on expansion tank. Using an antifreeze hydrometer, check the antifreeze for proper protection (add antifreeze to lower the freezing point of the antifreeze solution). If the antifreeze solution is dirty, more than 2 years old, or weak, it should be completely drained and replaced with proper mixture of permanent antifreeze and water.
4. Close the seacock, remove the raw water pick up hose from the raw water pump and immerse end into a 5 gallon bucket of antifreeze solution. Start engine and run till antifreeze solution comes out exhaust stack or until bucket is empty. Attach the raw water pick up hose to the raw water pump. Tighten all clamps. **Note: This procedure bypasses the sea strainer to prevent antifreeze from crystallizing sea strainer which warranty will not cover.**
5. Loosen water pump and alternator belts to lessen tension on belts during winter.
6. For engines equipped with a hand crank - pull compression release levers and turn engine slowly with the hand crank. Slowly pour about 2 ounces of engine oil into the intake pipe or manifold while hand cranking the engine. This will allow for a thin coat of oil on the valves and upper cylinder. **DO NOT USE** the starter to turn engine or serious engine damage may result.

STORAGE/WINTERIZATION

7. Tape the openings of the intake and exhaust manifolds with duck tape to help prevent corrosion of the upper cylinder during lay up.

8. Scrape all rust or corrosion from exposed metal parts and surfaces. Scrub all metal surfaces with detergent and rinse thoroughly. Paint any bare metal.

9. Place a dust cover over engine. Do not leave the engine exposed to rain and sea breeze.

10. Disconnect the battery cables, remove the battery from the boat. Clean the terminal ends and battery with a solution of baking soda and water, rinse thoroughly with clean water. Apply a light coat of grease on the terminal end of the battery and cables. Store the battery in a cool, dry place. Use a trickle charger to keep battery charged. Do not charge battery near any open flame or in a confined area.

CAUTION: Wear safety goggles and rubber gloves to protect your eyes and skin.

Winterizing Raw Water Cooled Diesel Engines

Step

1. Drain crankcase and transmission and refill with fresh oil as specified in owner's manual. Change oil filters.

2. Close seacock, remove raw water pick up hose from water pump, attach a 4-foot length of hose to water pump and immerse in a 5 gallon bucket of antifreeze solution. Remove hose from engine or manifold that leads to exhaust elbow. Attach about a 4-foot length of hose and immerse one end in the bucket of antifreeze solution. Start engine and run until water begins to warm up (about 3 to 5 min.) and thermostat opens. Stop engine. Replace hose that leads to exhaust elbow. Start engine and let run till water comes out exhaust pipe. Stop engine, remove hose from water pump to bucket, attach hose from seacock to water pump and tighten all hose clamps. **Note: This procedure bypasses the sea strainer to prevent antifreeze from crystallizing sea strainer which warranty will not cover.**

3. Loosen water pump and alternator belts to lessen tension on belts during winter.

4. Drain and clean all fuel filters and change elements, gaskets and seals. Bleed all air from fuel systems.

5. Pull compression release levers and turn engine slowly with the hand crank. Slowly pour about 2 ounces of engine oil into the intake pipe or manifold while hand cranking the engine. **DO NOT USE** the starter to turn engine or serious engine damage may result.

6. Tape the openings of the intake and exhaust manifolds with duck tape to help prevent corrosion of the upper cylinder during lay up.

7. Scrape all rust or corrosion from exposed metal parts and surfaces. Scrub all metal surfaces with detergent and rinse thoroughly. Paint any bare metal.

8. Place a dust cover over engine. Do not leave the engine exposed to rain and sea breeze.

9. Disconnect the battery cables, remove the battery from the boat. Clean the terminal ends and battery with a solution of baking soda and water, rinse thoroughly with clean water. Apply a light coat of grease on the terminal end of the battery and cables. Store the battery in a cool, dry place. Use a trickle charger to keep battery charged. Do not charge battery near any open flame or in a confined area.

CAUTION: Wear safety goggles and rubber gloves to protect your eyes and skin.

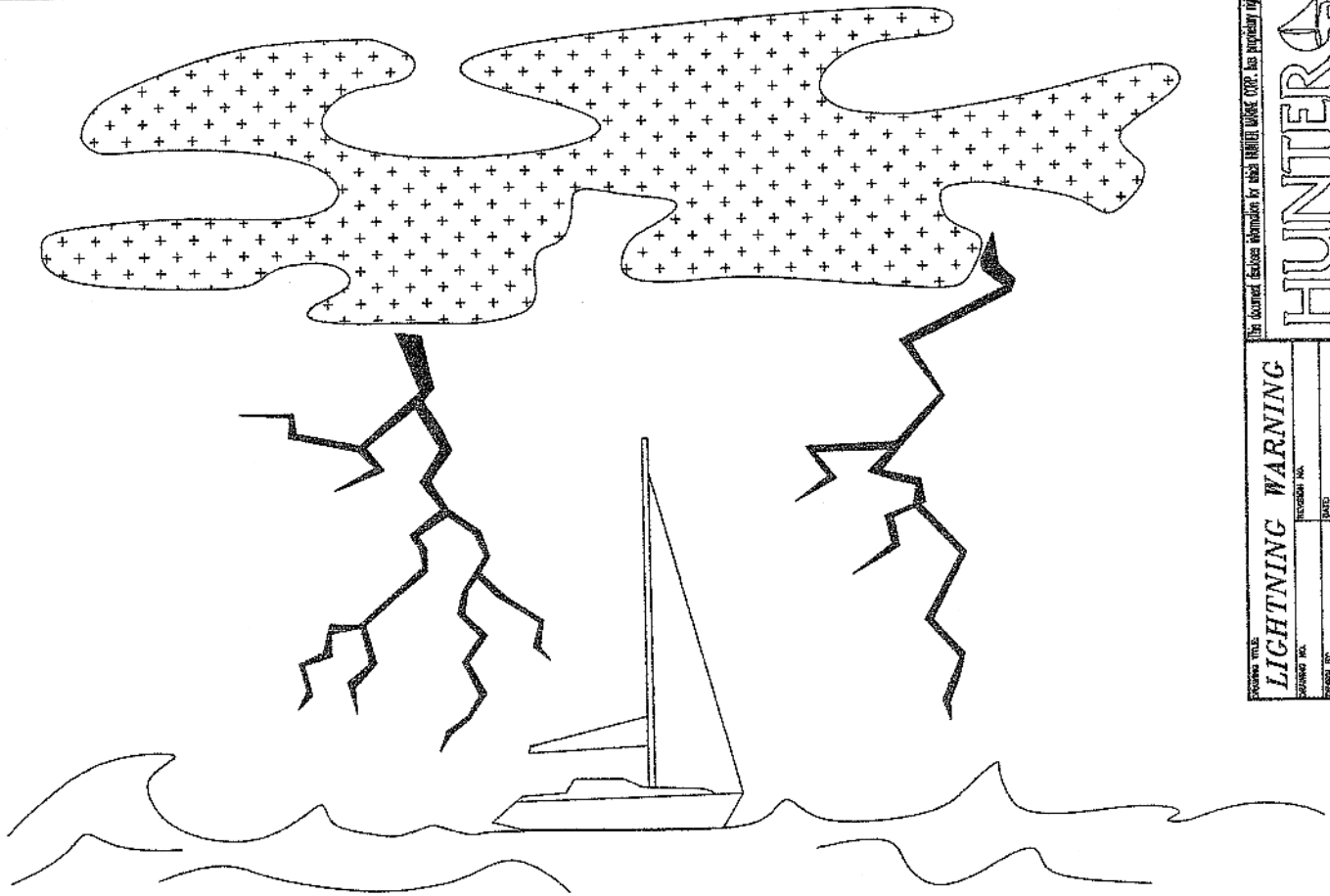
DEPARTURE FROM THE BOAT

The check list for leaving a boat unattended is very important because items overlooked often will not be remembered until you are far from the boat and corrective actions are impractical or impossible. Primary choices for this list are items relating to the safety and security of the unattended craft --- turning off fuel valves, the proper settings for electrical switches, pumping out the bilge and leaving the switch on automatic (or arranging for periodic pumping out). Other departure check list items are securing ports, windows, hatches, and doors.

ROUTINE MAINTENANCE

Routine maintenance check lists should include items based on how much the boat is used (usually in terms of engine hours) and on calendar dates (weekly, monthly, or seasonal checks). Typical of the former are oil level checks and changes, and oil and fuel filter changes.

On a calendar basis the lists should note such matters as electrolyte levels in storage-batteries, pressure gauges on dry-chemical fire extinguishers, and all navigation lights. Check the operation of automatic bilge alarms or pump switches by running water into the boat. Periodically close and open seacocks several times to ensure their free and easy operation in case they are needed in an emergency. Equipment and supplies carried on board for emergencies should be inspected for any signs of deterioration.

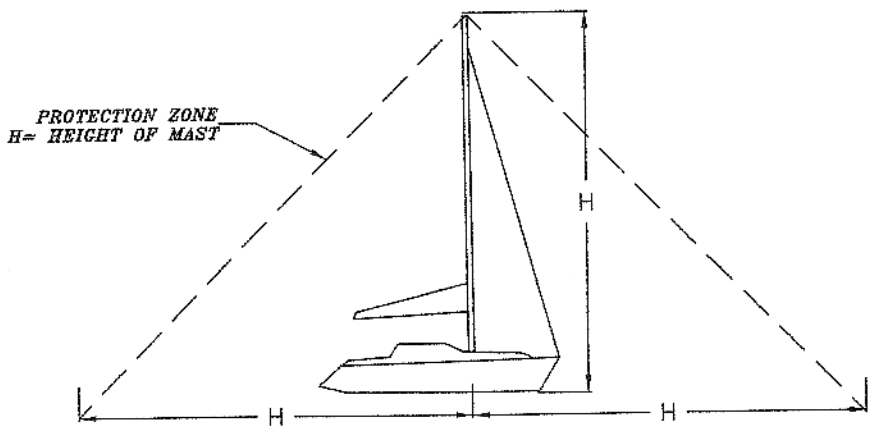


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LIGHTNING WARNING
 HUNTER MARINE GROUP, INC.
 10000 W. 10TH AVENUE
 DENVER, CO 80202

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. SYSTEM. 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 AFTER THE THREAT OF LIGHTNING HAS PASSED.

FAILURE TO FOLLOW PRECAUTIONS MAY RESULT IN SEVERE INJURY OR DEATH



BUILDER'S INFORMATION PLATE
HUNTER MARINE CORPORATION

H340

HUNTER MARINE CORP.



0609



MAXIMUM

$$10 \text{ [person icon]} + \text{[bag icon]} = \underline{1550\text{kg}}$$

LIGHTSHIP DISPLACEMENT = 5,183Kg (11,403Lb)

FULL LOAD DISPLACEMENT = 6,733Kg (14,831Lb)

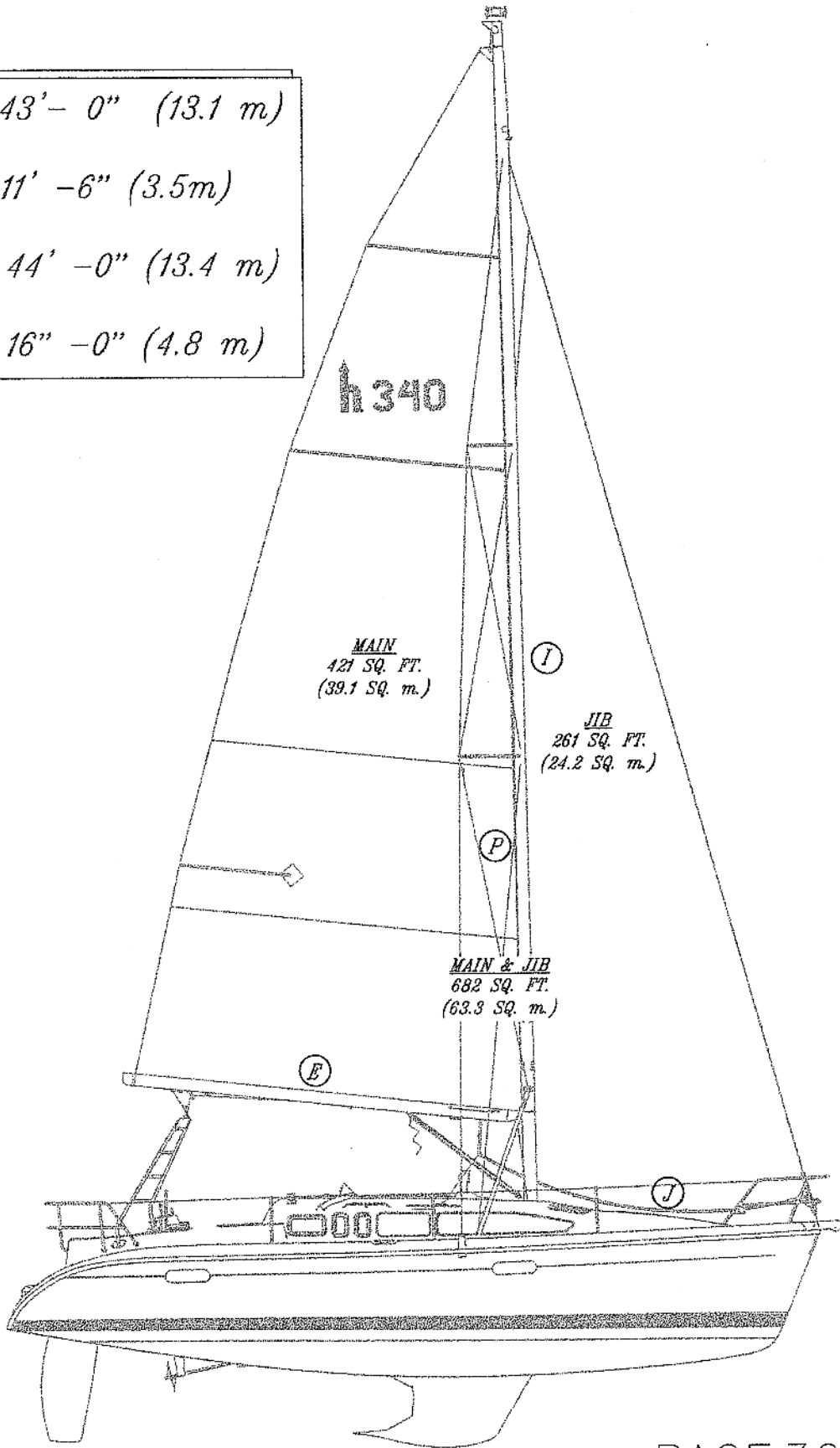
SINK @ FULL LOAD = 84mm (3.31")

EACH HUNTER 340 MODEL WITH THE CE MARK IS AND WILL CONTINUE TO BE IDENTICAL TO THE INDIVIDUAL UNIT OF THAT MODEL WHICH WAS OFFICIALLY INSPECTED AND APPROVED

MODEL YEAR 2000

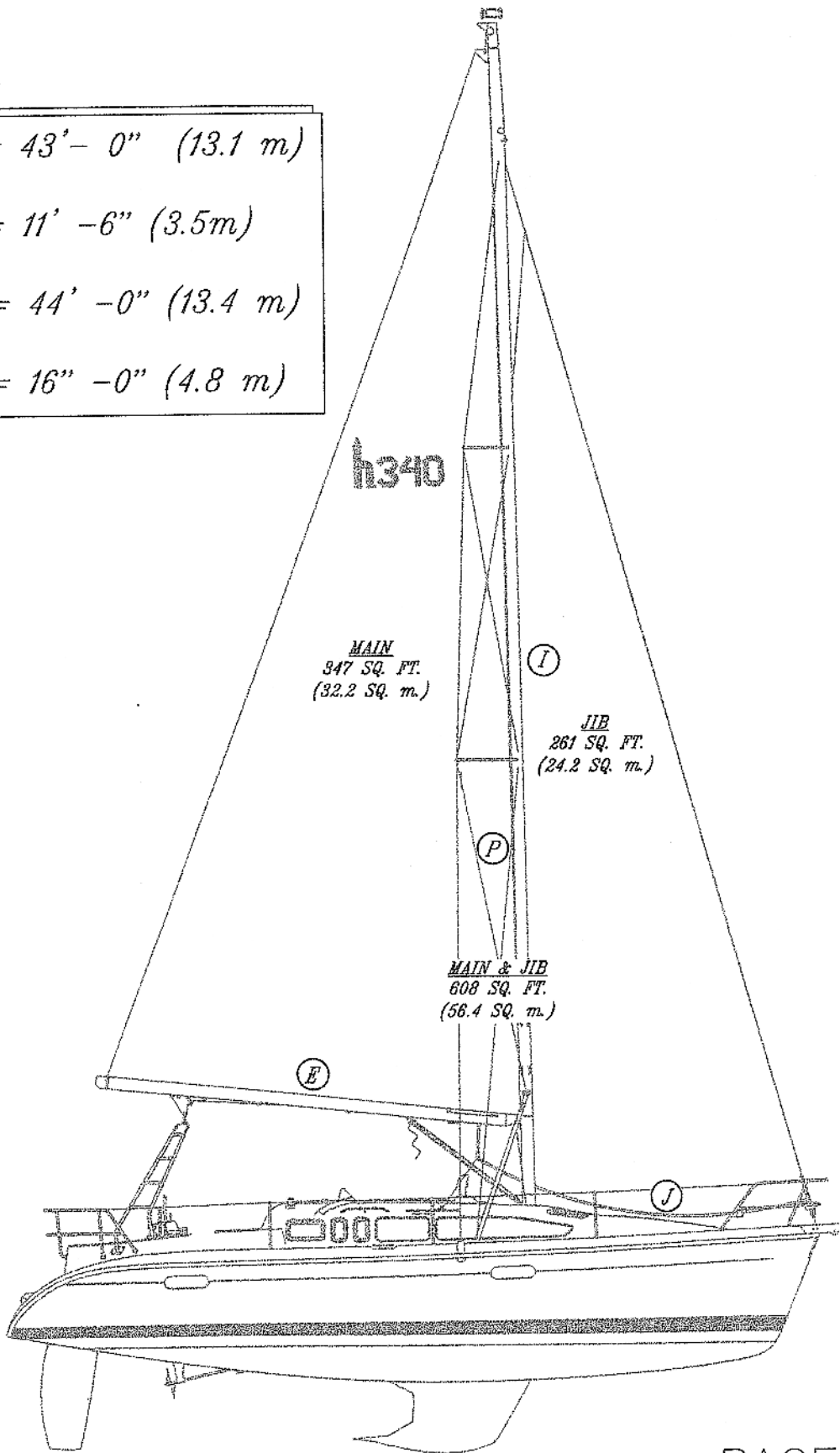
PAGE-35

$I = 43' - 0''$ (13.1 m)
 $J = 11' - 6''$ (3.5 m)
 $P = 44' - 0''$ (13.4 m)
 $E = 16'' - 0''$ (4.8 m)

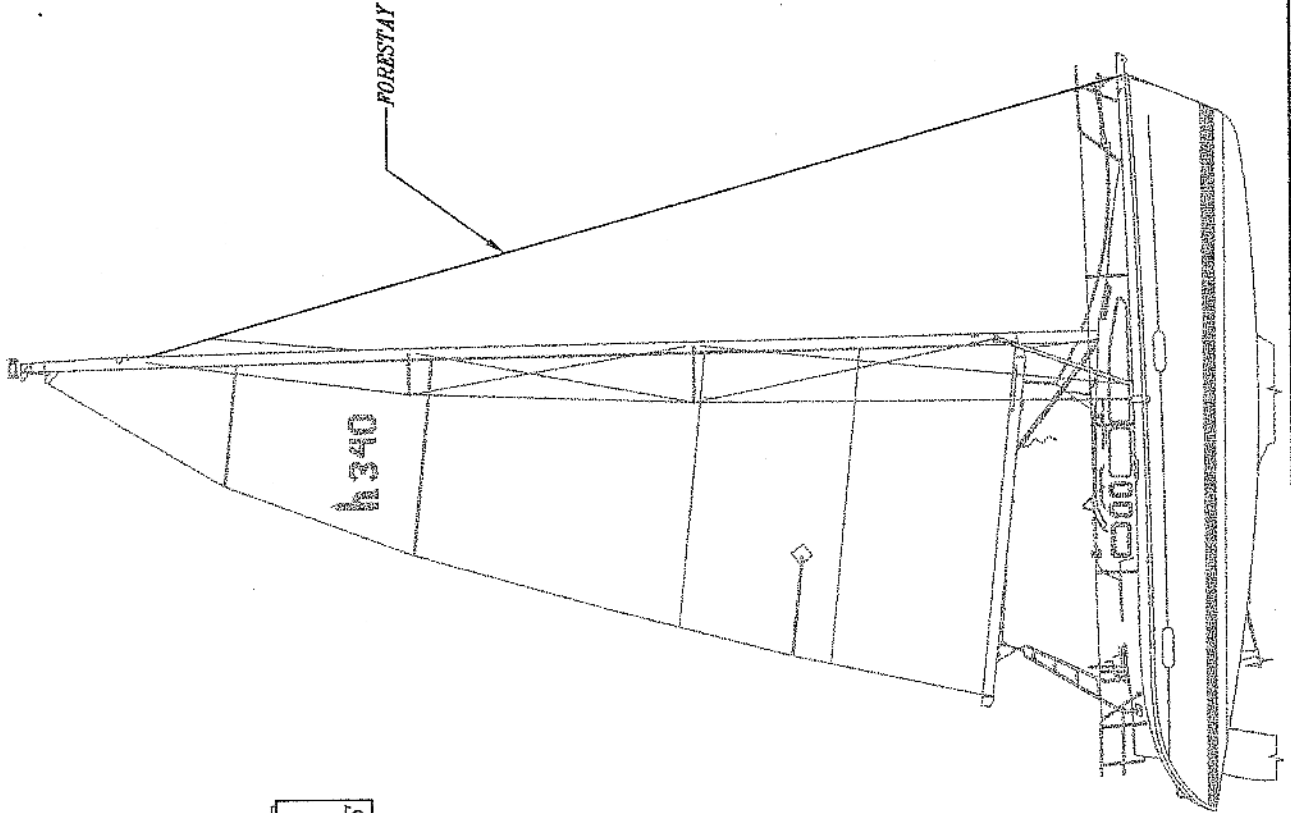


HUNTER
 H340 STANDARD MAST SAILPLAN
 DRAWING NO. 3408036A
 DATE 9/28/99
 ENGINEERING DEPT.
 NONE

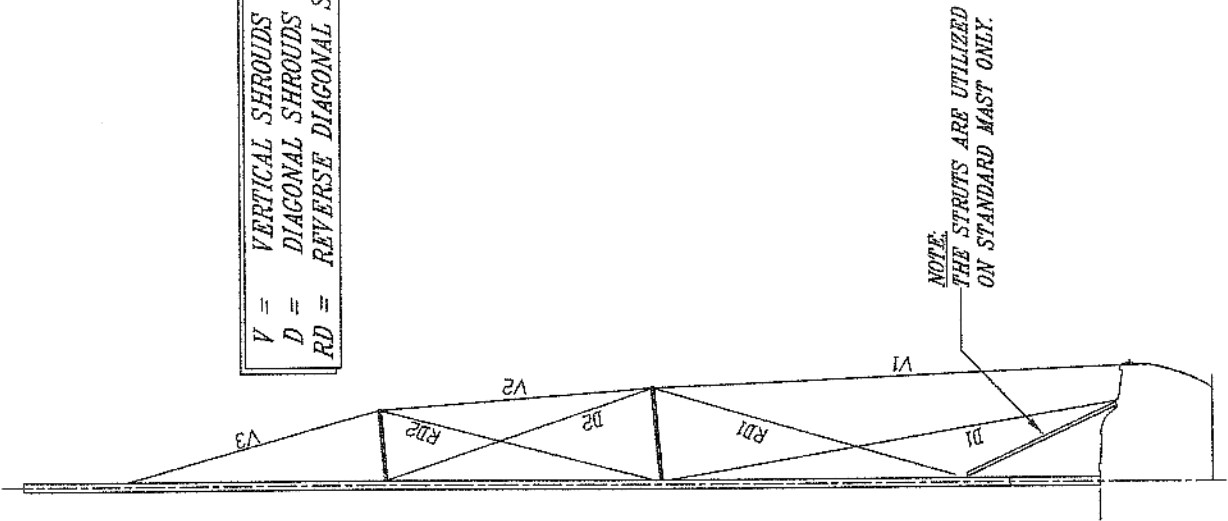
$I = 43' - 0''$ (13.1 m)
 $J = 11' - 6''$ (3.5 m)
 $P = 44' - 0''$ (13.4 m)
 $E = 16'' - 0''$ (4.8 m)



HUNTER®
 H340 FURLING SAILPLAN
 DRAWING NO. 34080368
 REVISION NO. NONE
 DATE 9/28/99
 DRAWN BY ENGINEERING DEPT.



V = VERTICAL SHROUDS
 D = DIAGONAL SHROUDS
 RD = REVERSE DIAGONAL SHROUDS



HUNTER & COMPANY
 THE HUNTER DESIGN INFORMATION FOR EACH HUNTER YACHT CORP. IS PROPRIETARY.

PROJECT TITLE	H340 MAST / RIG DETAILS
PROJECT NO.	3408038C
DESIGNER	ENGINEERING DEPT.
PERSONAL NO.	NONE
DATE	9/28/99

DIMENSIONS, CAPACITIES, ETC.

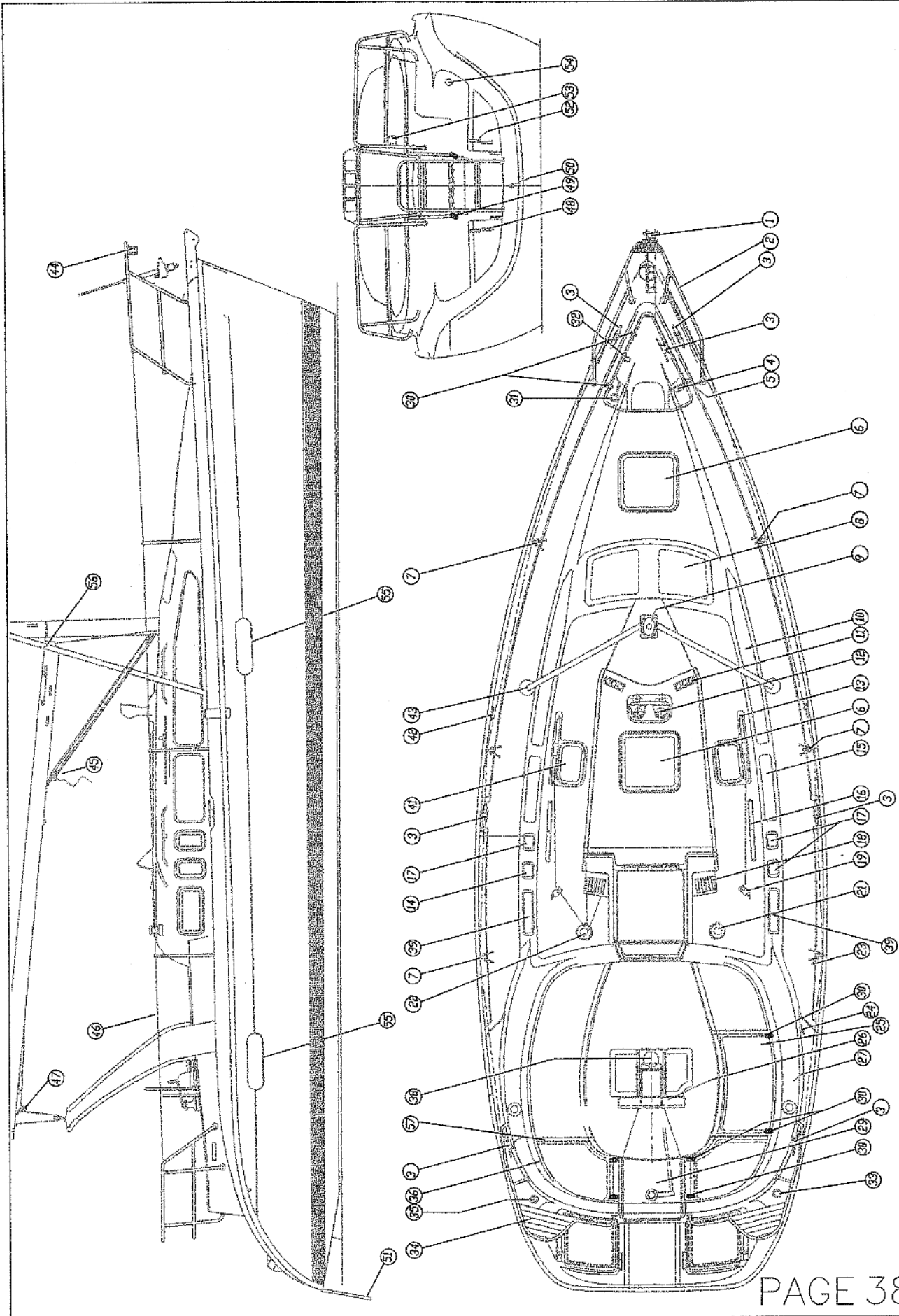
HUNTER 340

LENGTH OVERALL (LOA).....	33'9"	10.29m
LENGTH OF WATERLINE (LWL).....	28'7"	8.70m
BEAM (MAX).....	11'8"	3.54m
DRAFT (SHOAL).....	4'6"	1.37m
DRAFT (DEEP).....	6'0"	1.83m
DISPLACEMENT.....	11,403 lbs.	5,183 kg
BALLAST (SHOAL KEEL).....	4,100 lbs.	1,861 kg
BALLAST (DEEP KEEL).....	3,500 lbs.	1,589 kg
SAIL AREA (100% TRANGLES).....	599 sq. ft.	55.65 sq.m
SAIL AREA (ACTUAL W/STANDARD SAILS).....	682 sq. ft.	63.36 sq.m
I.....	43'0"	13.10m
J.....	11'6"	3.5m
P.....	44'0"	13.41m
E.....	16'0"	4.88m
MAST HEIGHT (FROM WATERLINE).....	55'9"	16.99m
HEADROOM.....	6'4"	1.93m
WATER CAPACITY.....	75 U.S. gal.	284 liters
HOLDING TANK CAPACITY.....	30 U S gal.	110 liters
FUEL TANK CAPACITY.....	30 US gal.	110 liters
LPG TANK CAPACITY.....	4 lbs.	1.82 kg
BATTERY CAPACITY.....	DEALER SUPPLIED	
ELECTRICAL VOLTAGES.....	SEE ELECTRICAL DRAWINGS	
INBOARD ENGINES.....	27 hp	20.1 kw
MAXIMUM LOADING.....	10 PEOPLE	1550 kg (INCL. LUGGAGE)
LIFTING POINTS.....	INDICATED BY "SLING" LABELS ON HULL	

The current advice information for which HUNTER MARINE CORP. has proprietary rights.

HUNTER MARINE CORP.
H340 INFORMATION AND SPECIFICATIONS PAGE
HUNTER NO. 3408037 VERSION NO. NONE
DESIGNED BY: ENGINEERING DEPT. DATE: 10/3/99

HUNTER



H340 DECK HARDWARE LIST

PART	PART#	MANUFACTURER	QTY
1 ANCHOR ROLLER	HW1610	SOUTH COAST	1
2 BOW RAIL	HW2348	SOUTH COAST	1
3 MOORING/ANCHOR CLEAT	HW0977		7
4 ANCHOR WELL LATCH	HW4481		1
5 ANCHOR WELL STRIKER PLATE	HW		1
6 HATCH	HW4854	LEWMAR	2
TRIM RING	HW0384	LEWMAR	2
SCREEN	HW0084-A	LEWMAR	2
7 LIFE LINE STANCHION	HW1747	SOUTHCOAST	6
8 CABIN WINDSHIELD (PLEXI)	PX0011	VIPLEX	1
9 MAST STEP	RI0522-A	ZSPARS 1103	1
10 WINDOW (PLEXI) PORT SIDE	PX0325		1
WINDOW (PLEXI) STBD SIDE	PX0326		1
11 HALYARD ORGANIZER	HW0170		2
12 DORADE	HW4857		2
13 JIB TRACK ASSEMBLY			
TRACK	HW0274		2
ENDS	HW0215		4
CAR	HW0217		2
14 OPENING PORT	HW0043	LEWMAR	1
15 WINDOW (PORT)	PX0323		1
WINDOW (STBD)	PX0324		1
16 GRAB HANDLE	HW2445		2
17 WINDOW (PLEXI NONOPENING)	PX0361		3
18 HALYARD STOPPER	HW1259		2
19 JIB JAMMER	HW0400	SPINLOCK JP/50	2
21 CABIN TOP WINCH CST 40	HW2520		1
22 CABIN TOP WINCH CST 30	HW2519		1
23 JIB FURLER LEAD BLOCK	HW0267		3
24 JIB FURLER CLEAT	HW0980		1
25 LAZARETTE COVER		GLASS PART	1
26 STEERING PEDESTAL	HW3307	EDSON RACK/PINION	1
27 ARCH		GLASS PART	1
29 STEERING LINKAGE	HW3307	EDSON	1
30 HINGE	HW1209		12
31 WATER FILL	PL1130		1
32 ANCHOR LINE U-BOLT	HW5512		1
33 WASTE PUMP OUT	PL1140		1
34 STERN RAIL	HW2246		2
35 DIESEL FILL	PL1126		1
36 GULL WING SEAT		GLASS PART	2
38 COMPASS	LGO135		1
39 OPENING PORT	HW0008	LEWMAR	2
41 DECK HATCH	HW0083	LEWMAR COAST 20	2
42 CHAIN PLATE	DWG# 3402001		2
43 LOWERS CHAINPLATE	DWG # 30620021		2
44 BOW LIGHT	ELO380		1

H340 DECK HARDWARE LIST

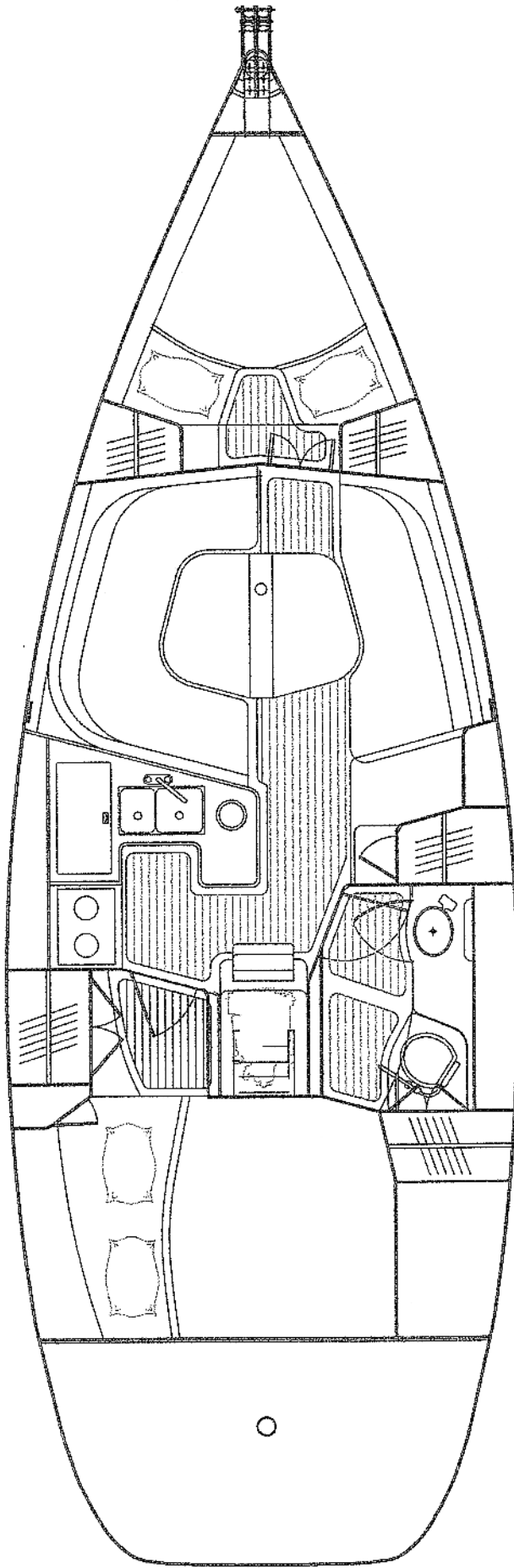
45 BOOM VANG			
VANG BLOCK	HW0211	SCHAEFER	1
VANG BLOCK	HW0280	SCHAEFER	1
46 LIFE LINES	RI1222		
47 MAIN SHEET SYSTEM			
BOOM BLOCK MS.	HW0330	HARKEN 1540	1
STAND UP SPRING	HW0389	HARKEN 071	2
ARCH MS. BLOCK	HW0416	HARKEN 1540	2
STRAP EYE	HW0390	HARKEN 1558	2
48 SWIM PLATFORM HANDLE	HW2404		2
49 HELMSEAT HINGES	HW4175		2
50 PROPANE LOCKER DRAIN	PLO840		1
51 SWIM LADDER	HW	TYP 310	1
52 SWIM SEAT LATCHES	HW4358		2
53 STERN LIGHT	ELO390		1
54 SHORE POWER	LGO100		1
55 FIXED HULL PORT	PX0144		4
56 STRUT	DWG# 30630003		2
57 GULL WING SEAT HANDLE	HW2318	TYP 310	2

OPTIONAL GEAR

59 WINDLASS	HW	SL ATLANTIC 1000	1
28 TRAVELER ASSEMBLY			
TRAVELER BAR	HW	HARKEN 1510-5' 6"	1
TRAVELER CAR	HW0340	HARKEN 1508	1
TRAVELER END CAPS	HW0343	HARKEN 1524	2
STAND UP TOGGLE	HW0340	HARKEN 1561	1
PORT CONTROL BLOCK	HW0341	HARKEN 1516	1
STBD. CONTROL BLOCK	HW0342	HARKEN 1516	1
TRAVELER CONTROL BLOCK	HW0340	HARKEN 1845	2
3" HARKEN BLOCK	HW	HARKEN 1540	1
OVER THE TOP BLOCKS	PR5108	SCHAEFFER 506-40	4
CAM CLEATS	PR5109	HARKEN 365	2

SPINNAKER GEAR

37 SPINN. WINCH	HW2519	LEWMAR CST 30	2
58 BLOCK	HW0276	SCHAEFER 505-15	2
60 MAST STEP BLOCK	RI0448	ZSPARS 275	1
SPINN. LINE KIT	RI0244		1
(SPINNAKER HALYARD)			1
(SPINNAKER SHEETS)			1



FOR FURTHER DETAILS, CONTACT HUNTER MARINE CORPORATION, 10000 HUNTER BOULEVARD, HUNTERDON, NJ 07001

HUNTER

H340 INTERIOR LAYOUT

OWNER NO. 3408041A REGION NO. NONE

ISSUED BY ENGINEERING DEPT. DATE 10/3/99

TABLE INSTRUCTIONS

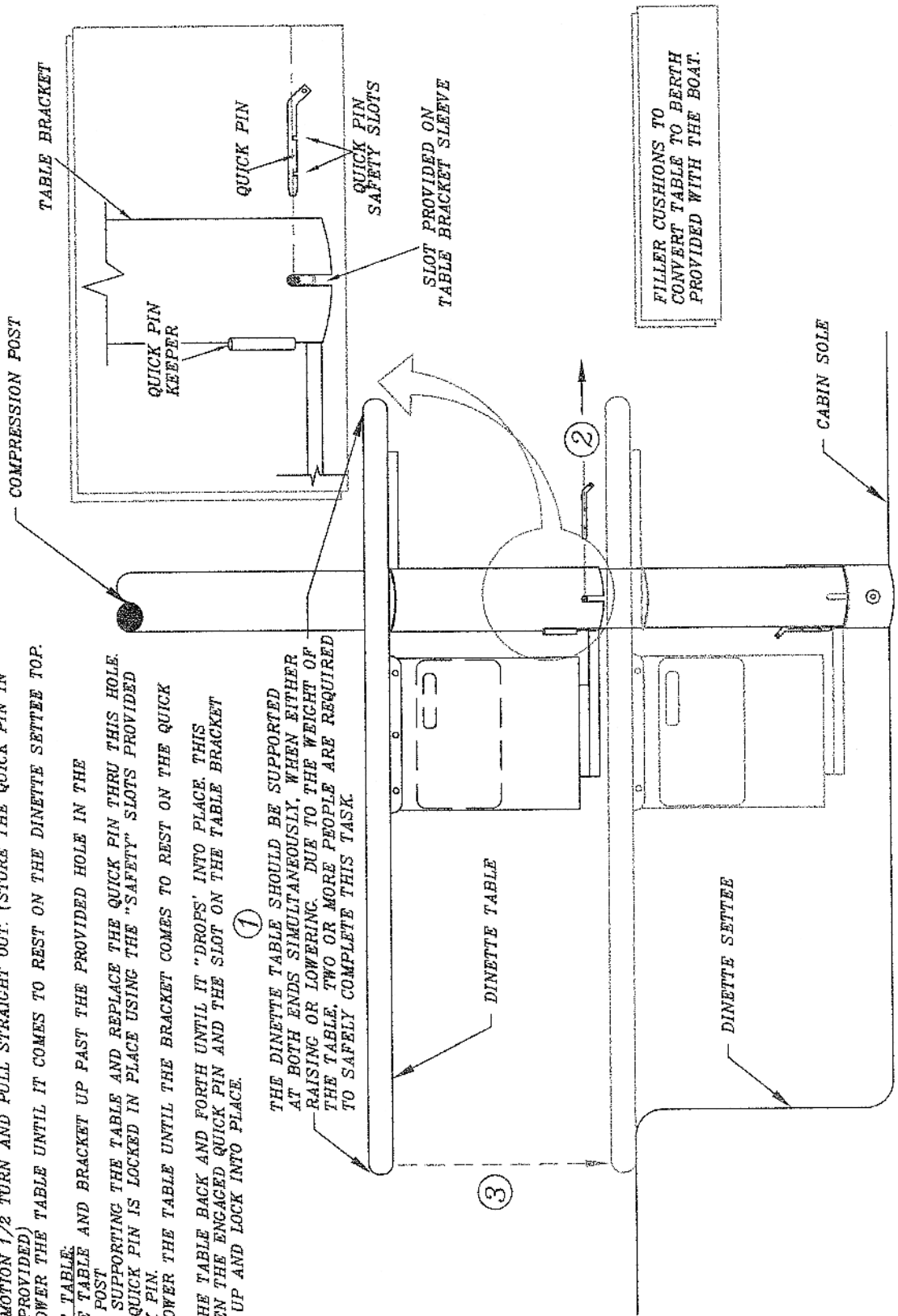
- TO LOWER THE TABLE.
1. LIFT UP ON THE TABLE TO RELIEVE PRESSURE ON THE QUICK PIN SUPPORTING THE TABLE BRACKET.
 2. CONTINUE SUPPORTING THE TABLE AND REMOVE THE QUICK PIN BY TURNING IT IN A CLOCKWISE MOTION 1/2 TURN AND PULL STRAIGHT OUT. (STORE THE QUICK PIN IN THE KEEPER PROVIDED)
 3. SLOWLY LOWER THE TABLE UNTIL IT COMES TO REST ON THE DINETTE SETTEE TOP.

TO RAISE THE TABLE.

1. RAISE THE TABLE AND BRACKET UP PAST THE PROVIDED HOLE IN THE COMPRESSION POST.
2. CONTINUE SUPPORTING THE TABLE AND REPLACE THE QUICK PIN THRU THIS HOLE. ENSURE THE QUICK PIN IS LOCKED IN PLACE USING THE "SAFETY" SLOTS PROVIDED ON THE QUICK PIN.
3. SLOWLY LOWER THE TABLE UNTIL THE BRACKET COMES TO REST ON THE QUICK PIN.
4. ROTATE THE TABLE BACK AND FORTH UNTIL IT "DROPS" INTO PLACE. THIS HAPPENS WHEN THE ENGAGED QUICK PIN AND THE SLOT ON THE TABLE BRACKET SLEEVE LINE UP AND LOCK INTO PLACE.

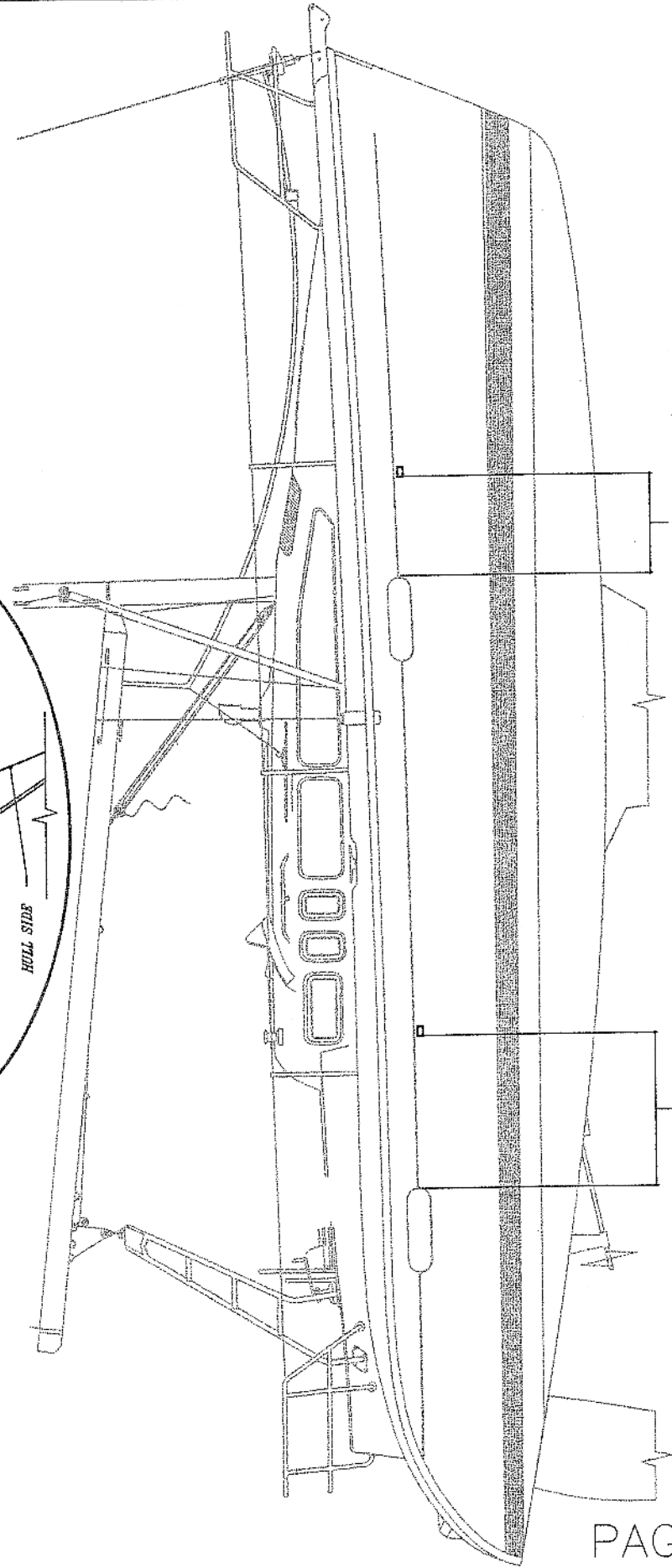
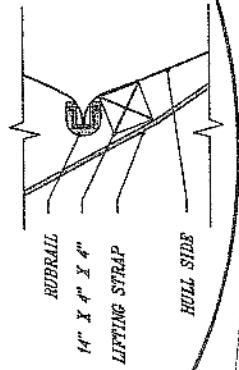
①

THE DINETTE TABLE SHOULD BE SUPPORTED AT BOTH ENDS SIMULTANEOUSLY, WHEN EITHER RAISING OR LOWERING. DUE TO THE WEIGHT OF THE TABLE, TWO OR MORE PEOPLE ARE REQUIRED TO SAFELY COMPLETE THIS TASK.



HUNTER
 H340 DINETTE TABLE OPERATION
 DRAWING NO. 3408041B
 REVISION NO. NONE
 DATE 10/4/99
 ENGINEERING DEPT.

NOTE: TO AVOID DAMAGING THE RUBRAIL WHEN LIFTING THE BOAT, A 14" X 4" PIECE OF 4" X 4" WOOD SHOULD BE PLACED IN BETWEEN THE LIFTING STRAP AND THE HULL, JUST BELOW THE RUBRAIL



25" (635 mm)
FROM FWD EDGE OF WINDOW

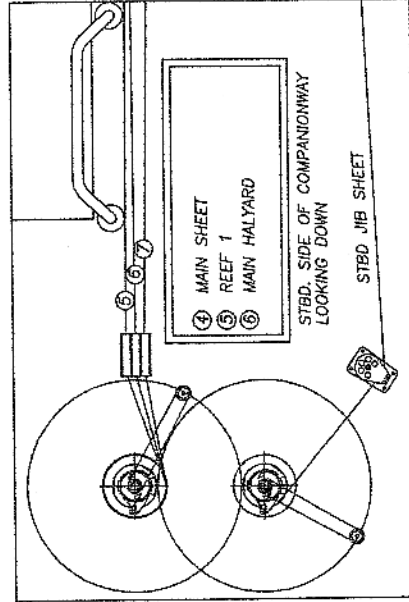
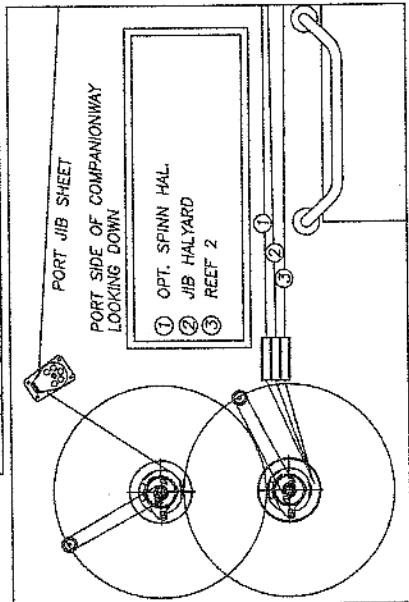
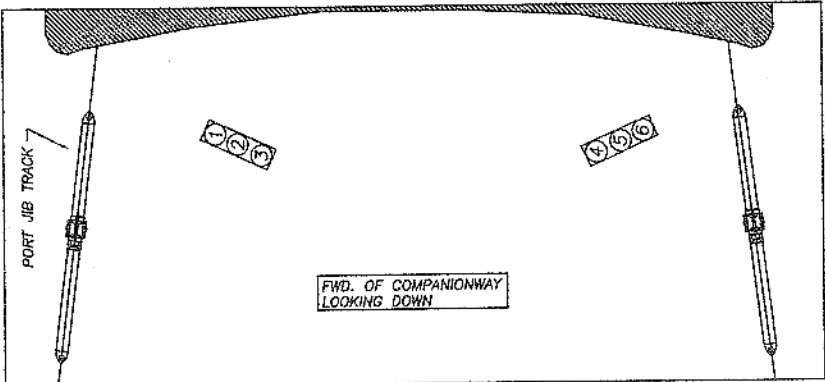
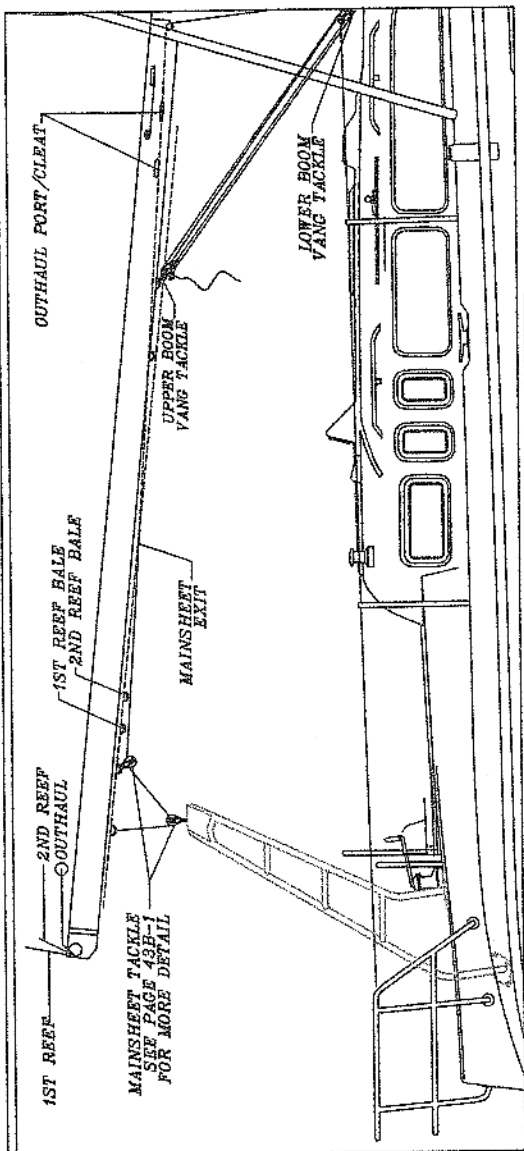
39" (990.6 mm)
FROM FWD EDGE OF WINDOW

SLING LOCATIONS

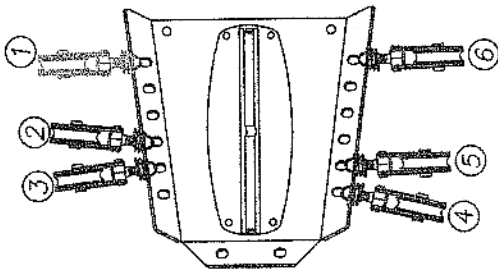
<small>ISSUES THIS</small> H340 LIFTING SLINGS LOCATION	
<small>ISSUES NO.</small> 3408041C	<small>ISSUES TO</small> NONE
<small>ISSUES BY</small> ENGINEERING DEPT.	<small>DATE</small> 10/3/99

HUNTER

The Hunter Group is a division of Hunter Marine Corp. All products are made in the USA.



STANDARD MAST STEP W\SPINNAKER OPTION

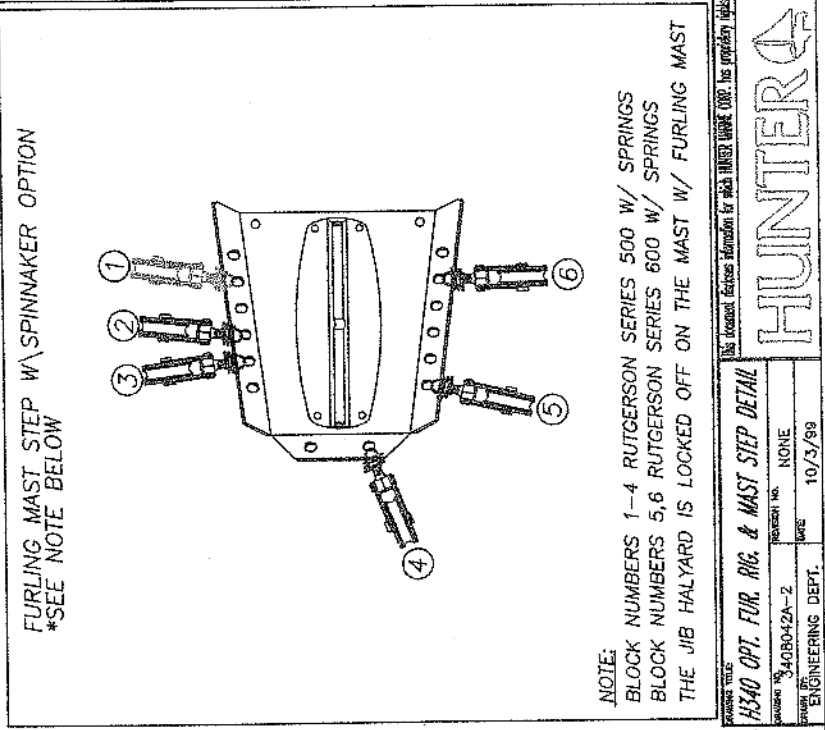
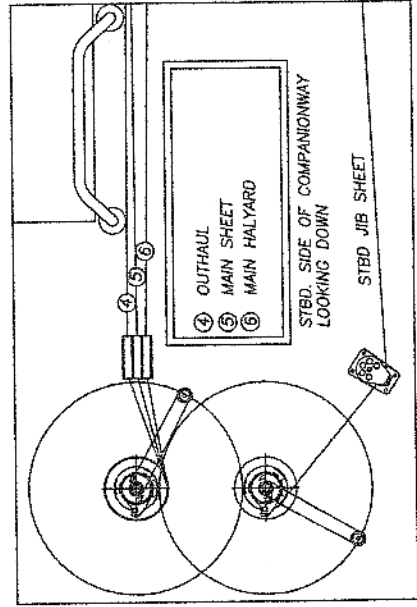
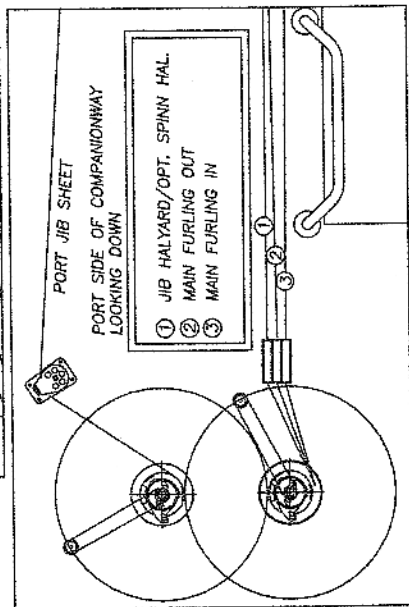
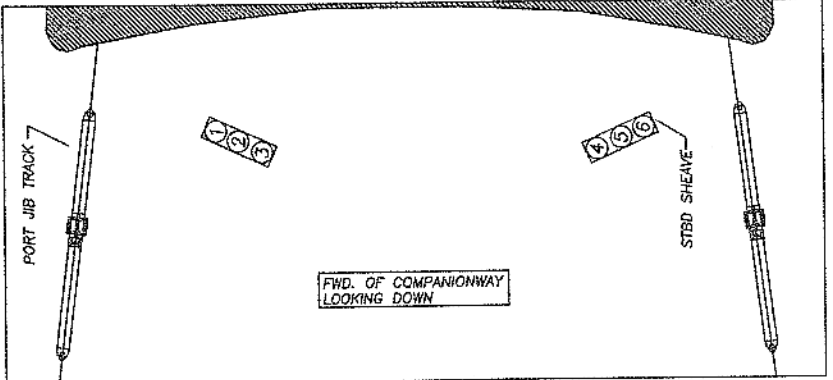
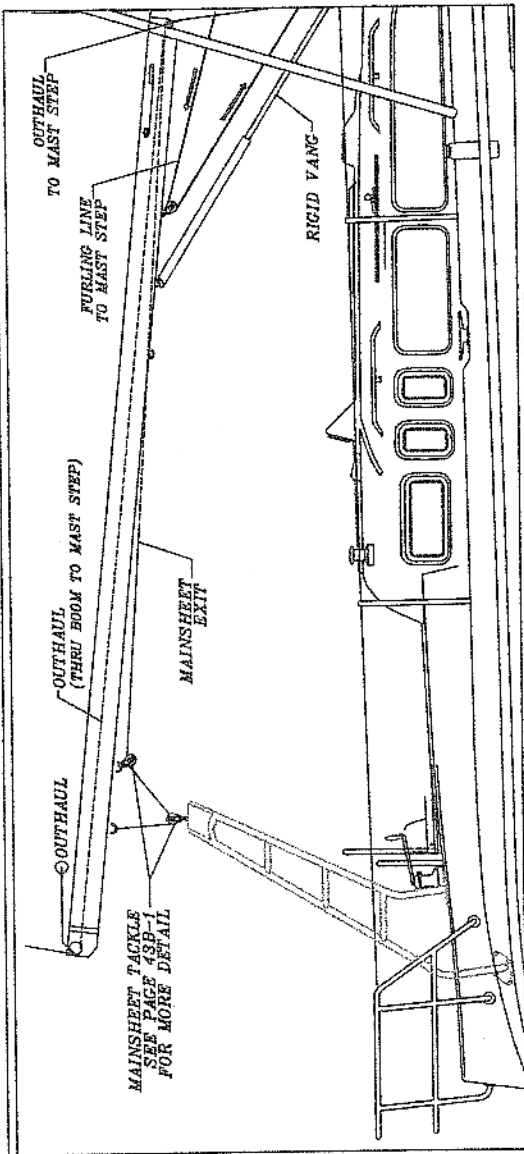


NOTE:
ALL BLOCKS RUTGERSON SERIES 500 W/ SPRINGS

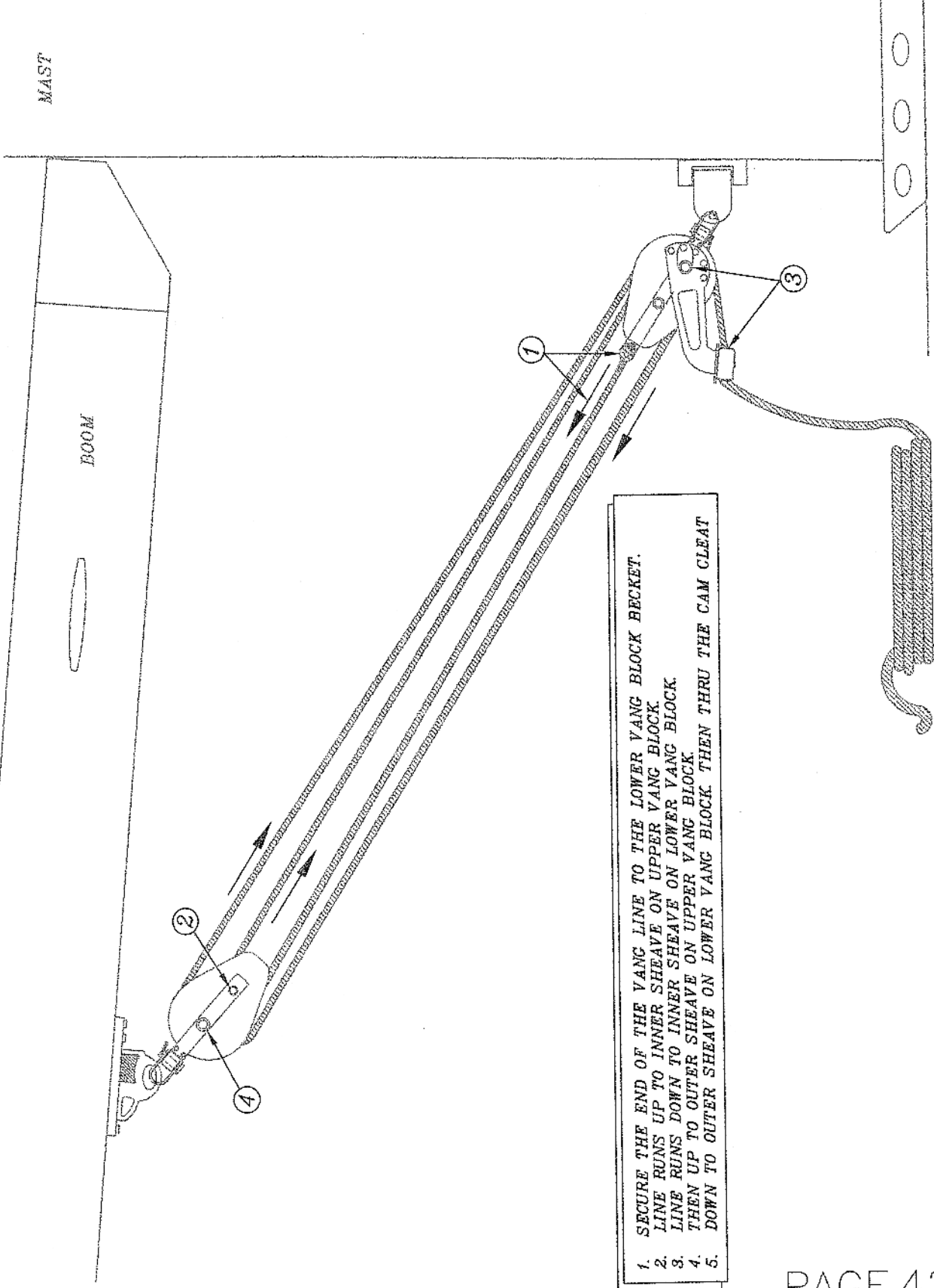
THIS DOCUMENT CONTAINS INFORMATION FOR WHICH HUNTER WOULD OWE THE PROPRIETARY RIGHTS.

HUNTER

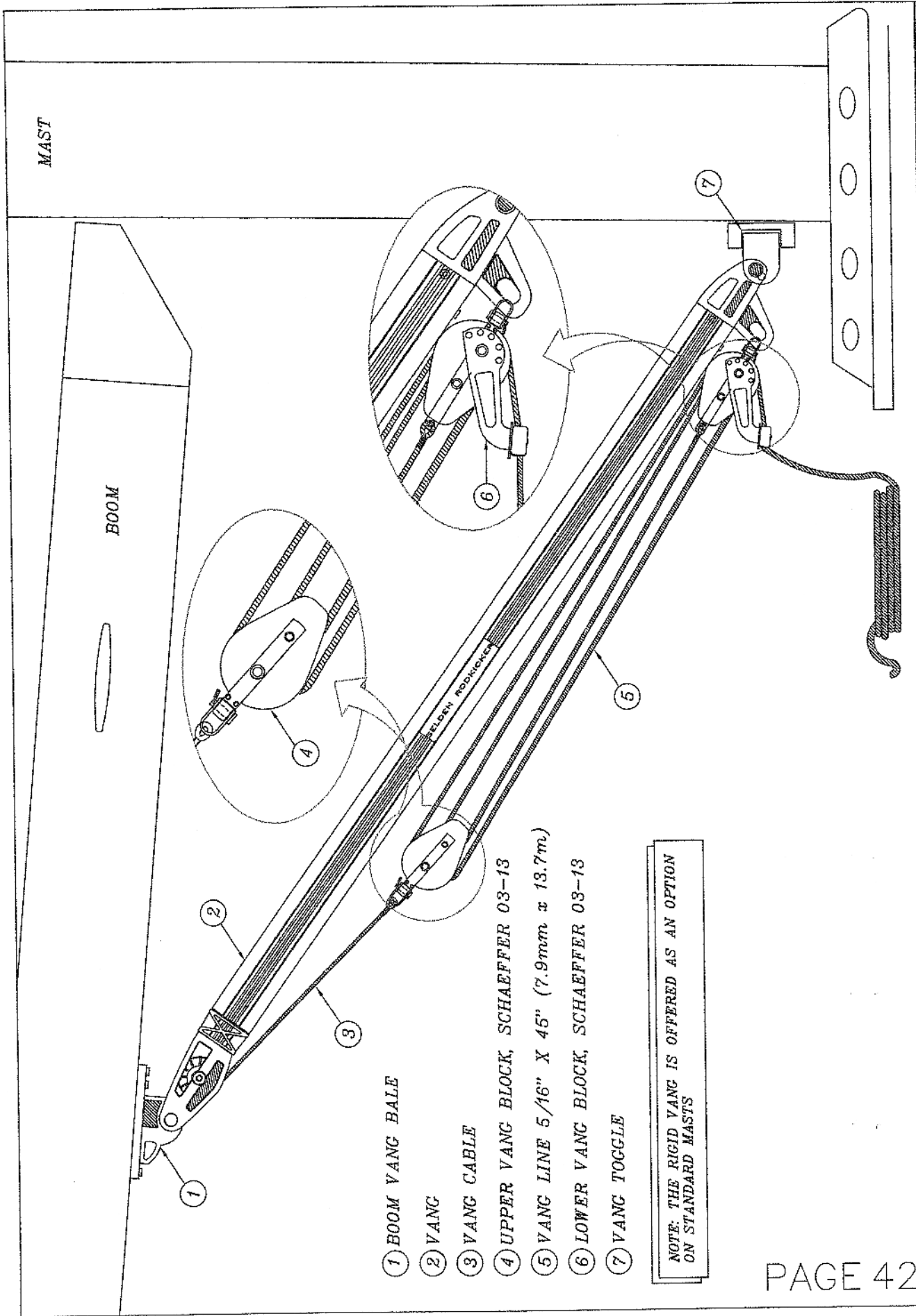
FORMING TITLE: H340 STD. RUN. RIG. & MAST STEP DETAIL
 DRAWING NO. 340B042A-1
 REVISION NO. NONE
 DATE: 10/3/89
 ENGINEERING DEPT.



HUNTER
 H340 OPT. FUR. RIG. & MAST STEP DETAIL
 DRAWING NO. 3408042A-2
 REVISION NO. NONE
 DATE 10/3/99
 ENGINEERING DEPT.



1. SECURE THE END OF THE VANG LINE TO THE LOWER VANG BLOCK BECKET.
2. LINE RUNS UP TO INNER SHEAVE ON UPPER VANG BLOCK.
3. LINE RUNS DOWN TO INNER SHEAVE ON LOWER VANG BLOCK.
4. THEN UP TO OUTER SHEAVE ON UPPER VANG BLOCK.
5. DOWN TO OUTER SHEAVE ON LOWER VANG BLOCK THEN THRU THE CAM CLEAT



MAST

BOOM

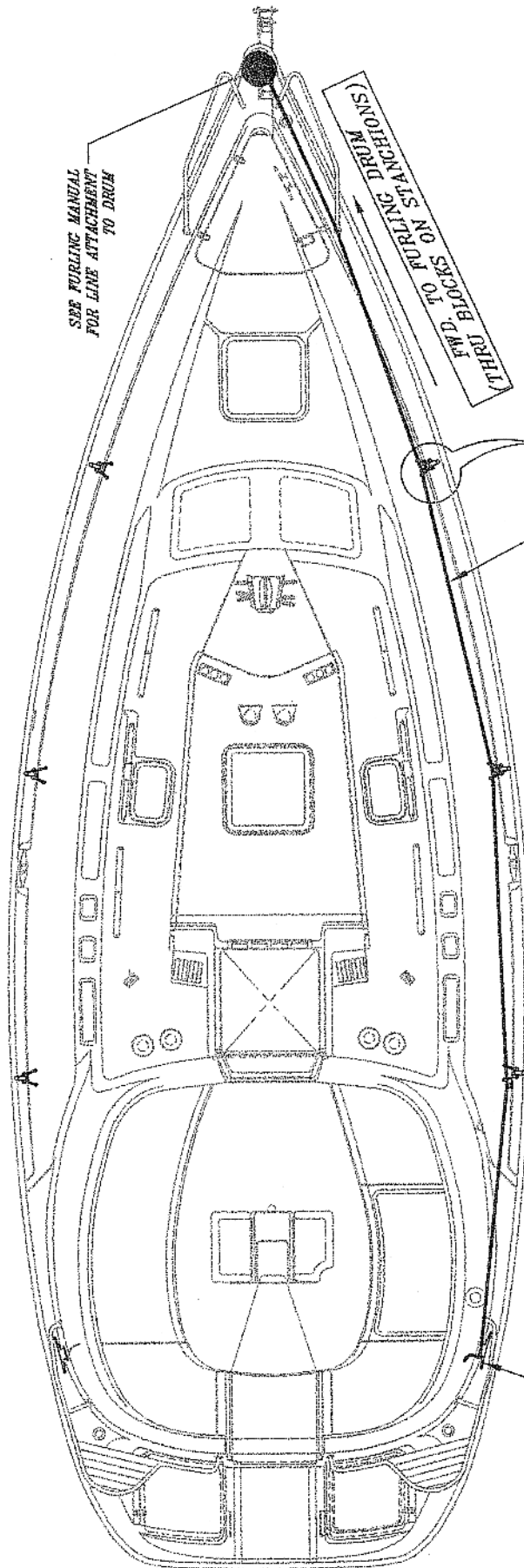
- ① BOOM VANG BALE
- ② VANG
- ③ VANG CABLE
- ④ UPPER VANG BLOCK, SCHAEFFER 03-13
- ⑤ VANG LINE 5/16" X 45" (7.9mm x 13.7m.)
- ⑥ LOWER VANG BLOCK, SCHAEFFER 03-13
- ⑦ VANG TOGGLE

NOTE: THE RIGID VANG IS OFFERED AS AN OPTION ON STANDARD MASTS

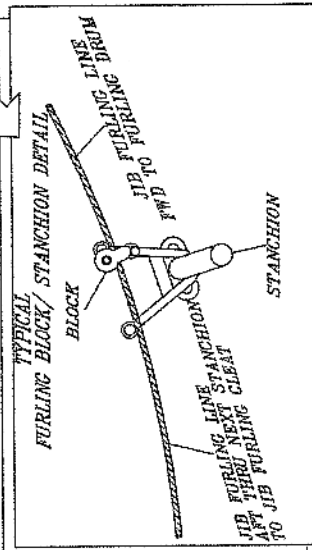
OWNER'S TITLE
H340 RIGID VANG DETAILS (FURLING OPTION)
REVISION NO. 3408042B-2 REVISION NO. NONE
POWER ENGINEERING DEPT. DATE 11/03/99

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HUNTER

JIB FURLING SYSTEM



JIB FURLING LINE



AFT TO JIB FURLING CLEAT ON COCKPIT COAMING

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H340 JIB FURLING LINE LAYOUT

DESIGN NO.	3408042C	REVISION NO.	NONE
DATE	10/14/99	ENGINEERING DEPT.	



ARCH INSTALLATION: NOTES AND TOOL LIST

NOTES:

1. IMPORTANT: COMPLETELY READ ALL OF THE INSTALLATION INSTRUCTIONS BEFORE BEGINNING.
2. THIS JOB REQUIRES THREE PEOPLE. IT IS IMPORTANT THAT THE ARCH CONTINUE BEING SUPPORTED ONCE IT HAS BEEN SET IN PLACE, UNTIL BEING FULLY SECURED TO THE DECK.
3. WHEN INSTALLING ARCH: TO AVOID POSSIBLE INJURY, ORIENT THE DIRECTION OF THE ARCH (LEANING FORWARD) PRIOR TO BEGINNING THE INSTALLATION PROCESS.
4. SEE BELOW FOR A LIST OF TOOLS SUGGESTED FOR THE INSTALLATION PROCESS
- 5.. IMPORTANT: REMEMBER TO CHECK ALL THE ARCH BOLTS / NUTS AFTER THE INITIAL SEA TRIAL AND RETIGHTEN AS NECESSARY

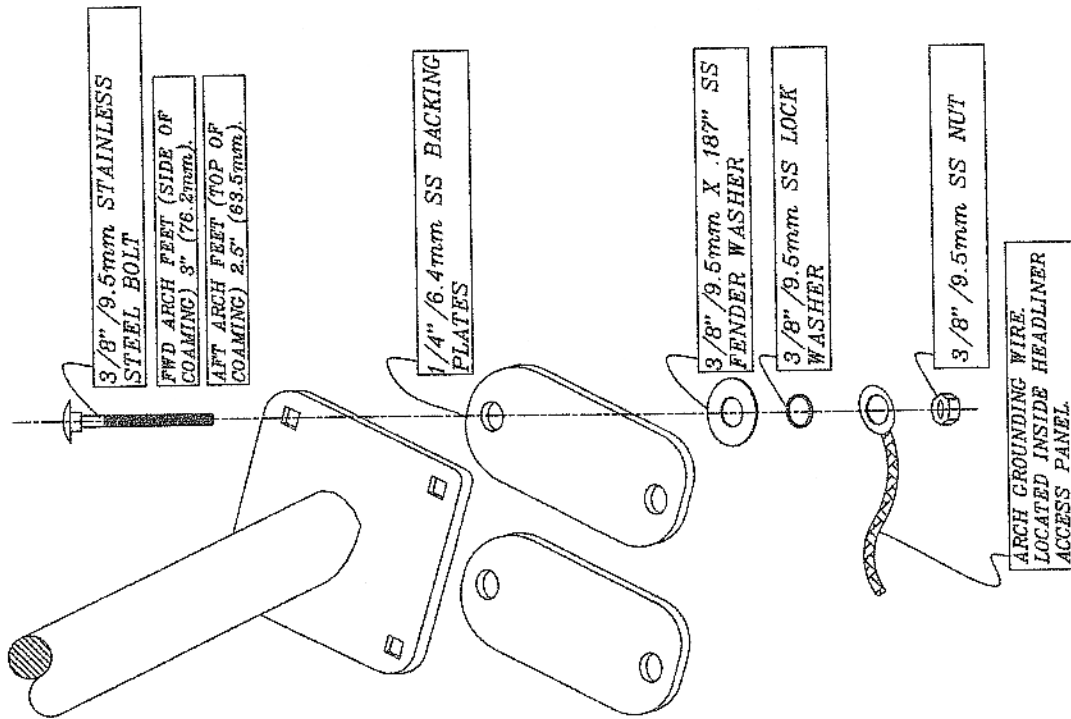
SUGGESTED TOOL LIST:

- 3/8" DRIVE RATCHET
- 6" EXTENSION
- 9/16" DEEP & REGULAR SOCKET
- 9/16" WRENCH
- SCREW DRIVER--PHILLIPS HEAD
- RATCHET STRAP
- CAULK GUN
- TUBE OF SEALANT (3M 5200)
- NEVER SEIZE (BOLT LUBE)
- RAZOR KNIFE
- RAGS
- ALCOHOL / CLEAN UP



1. REMOVE ALL ACCESSORIES STOWED IN THE COCKPIT LOCKERS. THIS WILL ALLOW EASIER ACCESS TO FASTEN THE ARCH BOLTS.
2. REMOVE ANY SEALANT IN THE ARCH PRE DRILLED HOLES.
3. CLEAN AROUND THE MOUNTING HOLES USING ALCOHOL.
4. APPLY A GENEROUS AMOUNT OF 3M 5200 SEALANT AT THE ARCH MOUNTING FOOT DECK MOUNTING HOLE LOCATIONS.
5. TO AVOID POSSIBLE INJURY, ORIENT THE ARCH (LEANING FORWARD) PRIOR TO PLACING IT ON THE BOAT.
6. PLACE THE ARCH ON THE DECK OF THE BOAT. ALIGN THE FORWARD MOST ARCH FOOT HOLE WITH THE MATCHING PRE DRILLED FWD MOST DECK COAMING HOLE.
7. INSERT A (3.0" (76.2mm)) STAINLESS STEEL BOLT THRU THE FWD MOST ARCH FOOT INTO THE COAMING.
8. ACCESS THE UNDERSIDES OF THE DECK AT THE ARCH FOOT LOCATIONS AS FOLLOWS:
 AFT PORT FWD: THRU ACCESS PANEL IN THE PT. SIDE AFT STATEROOM HEADLINER.
 PORT AFT: THRU PORT SIDE GULLWING LOCKER
 STBD FWD: THRU STBD. SIDE GULLWING LOCKER
 STBD. AFT: THRU PORT SIDE GULLWING LOCKER
9. INSTALL THE (1/4" (6.4mm)) BACKING PLATE ON THE INSIDE OF THE COAMING. THEN INSTALL THE S.S. WASHER, LOCK WASHER AND THE S.S. NUT AS WELL. (NOTE: THERE EXISTS CASES WHERE A BACKING PLATE IS NOT ABLE TO BE INSTALLED. IF THIS IS ENCOUNTERED, USE (1/4" 6.4mm)) S.S. FENDER WASHERS INSTEAD. (IT IS IMPORTANT TO APPLY A SMALL AMOUNT OF NEVER SEIZE TO THE BOLT TO PREVENT "GAULING" OF THE THREADS.)
10. COMPLETELY TIGHTEN THE FORWARD MOST BOLT.
11. REPEAT THIS PROCEDURE FOR THE REMAINING THREE FEET. INSERTING ONLY ONE BOLT AT FIRST AND COMPLETELY TIGHTENING IT DOWN STARTING WITH THE ARCH FOOT DIRECTLY ACROSS FROM THE BOLT ALREADY INSTALLED. REPEAT THIS FOR THE NEXT TWO.
12. NOTE: IT MAY BE NECESSARY TO USE A RATCHET STRAP TO "PULL" THE ARCH INTO ALIGNMENT WITH THE REMAINING MOUNTING HOLES.
13. INSERT THE REST OF THE S.S. FASTENERS INTO THE MOUNTING HOLES. INSTALL ALL THE S.S. BACKING PLATES, WASHERS AND NUTS FROM THE UNDERSIDE OF THE DECK (AT THIS TIME, BE SURE TO INSTALL THE ARCH GROUNDING WIRE, LOCATED IN THE HEADLINER ACCESS PANEL. SEE DIAGRAM FOR INSTALLATION DETAILS.)
14. RECHECK THE ARCH FIT ONTO THE DECK.
15. SECURELY TIGHTEN ALL THE NUTS AND BOLTS USING A CROSS TIGHTENING PATTERN. (DO NOT FORGET TO USE A SMALL AMOUNT OF LUBRICANT FOR THE BOLTS).
16. CLEAN OFF THE EXCESS SEALANT AROUND THE ARCH FEET AND COAMING AREAS USING ALCOHOL.
17. RECHECK THE BOLTS AFTER THE INITIAL SEA TRIAL AND TIGHTEN AS NECESSARY.

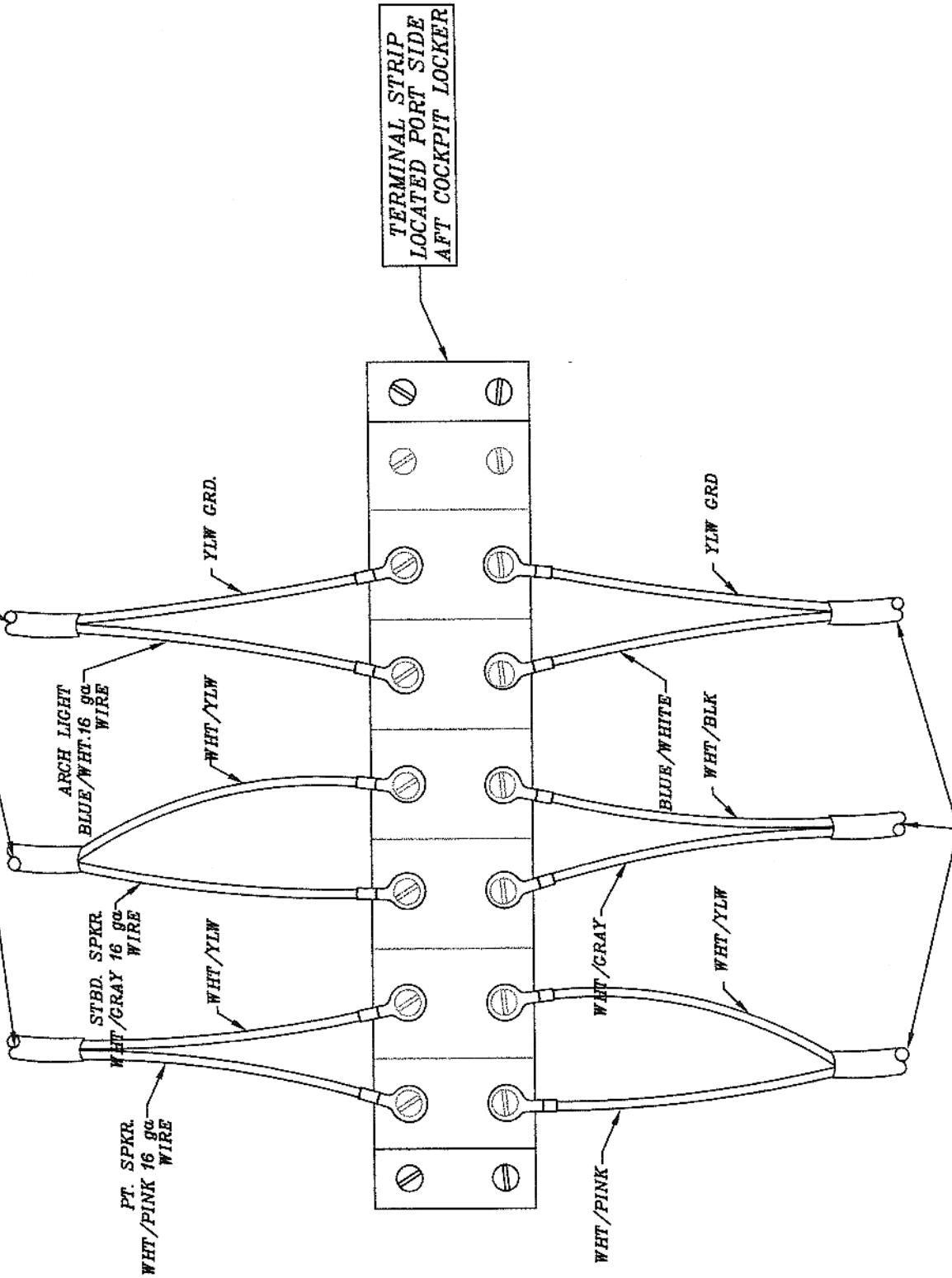
TYPICAL ARCH FOOT



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HUNTER

AL340 ARCH INSTALLATION INSTRUCTIONS CONT	
<small>FORM NO. 3-408043A-2</small>	<small>REVISION NO. NONE</small>
<small>ENGINEERING DEPT.</small>	<small>DATE 6/8/99</small>

WIRES TO ARCH SPEAKERS
AND ARCH LIGHT



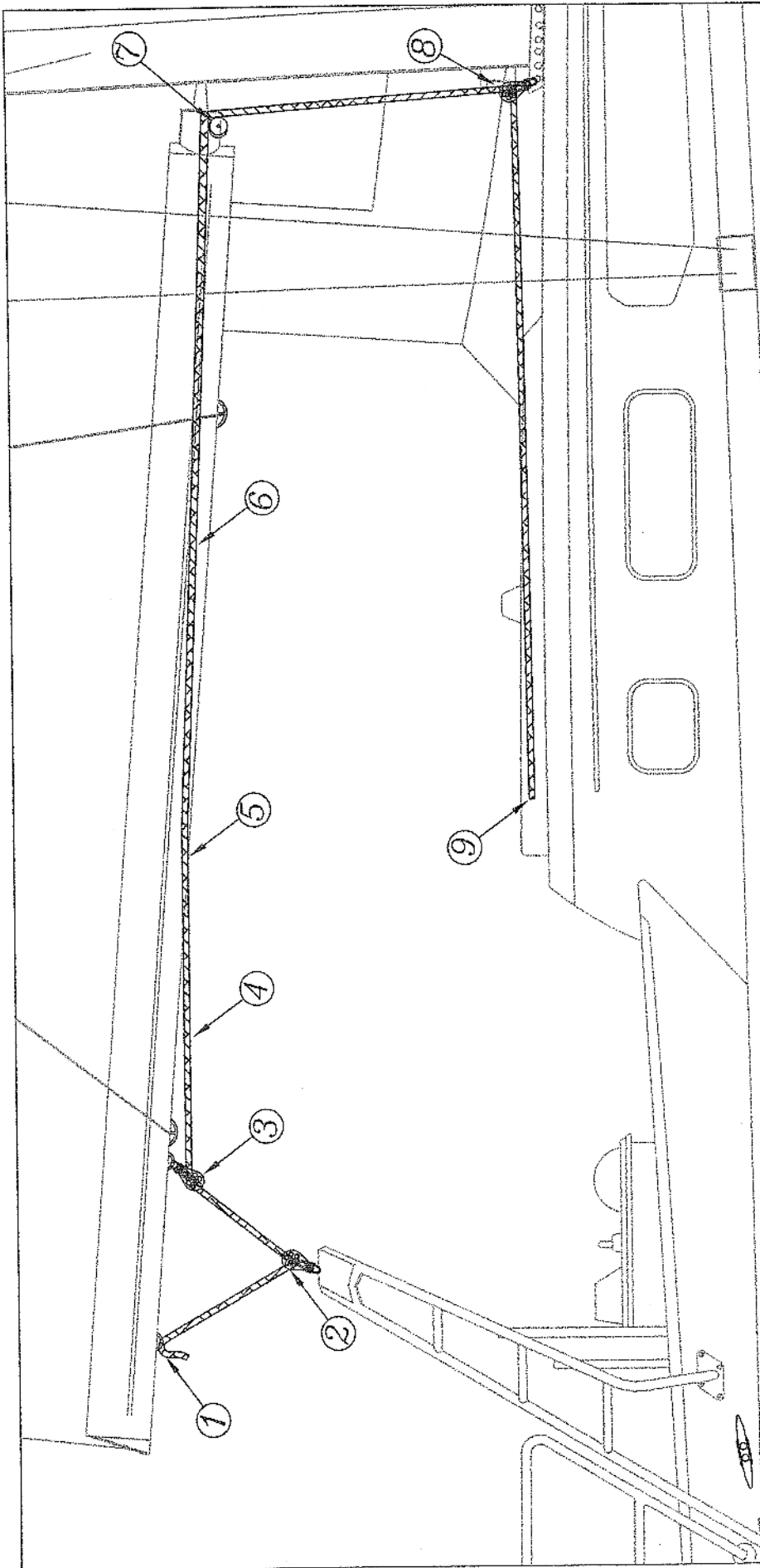
WIRES TO
HEADLINER
ALL 16 ga.

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HUNTER

H340 ARCH WIRING TERMINAL STRIP SCHEMATIC

REVISED BY:	SCALE:	NONE
DATE:	DATE:	7/28/00
3408043A-3	ENGINEERING DEPT	



1. BOOM BALE (MANSHEET PURCHASE END TIE OFF)
2. ARCH MANSHEET BRIDLE / (OPT TRAVELER SYSTEM)
3. BOOM BALE AND MANSHEET BLOCK
4. MANSHEET BOOM EXIT
5. MANSHEET RUN INSIDE BOOM
6. MANSHEET SHEAVE INSIDE FWD BOOM END
7. MANSHEET BLOCK AT MAST STEP (SEE PG 42A-1)
8. MANSHEET RUN AFT TO COCKPIT

HUNTER
 H340 MANSHEET PURCHASE LAYOUT
 NUMBER NO. NONE
 DATE 10/4/99
 ENGINEERING DEPT.

BOOM
BALE

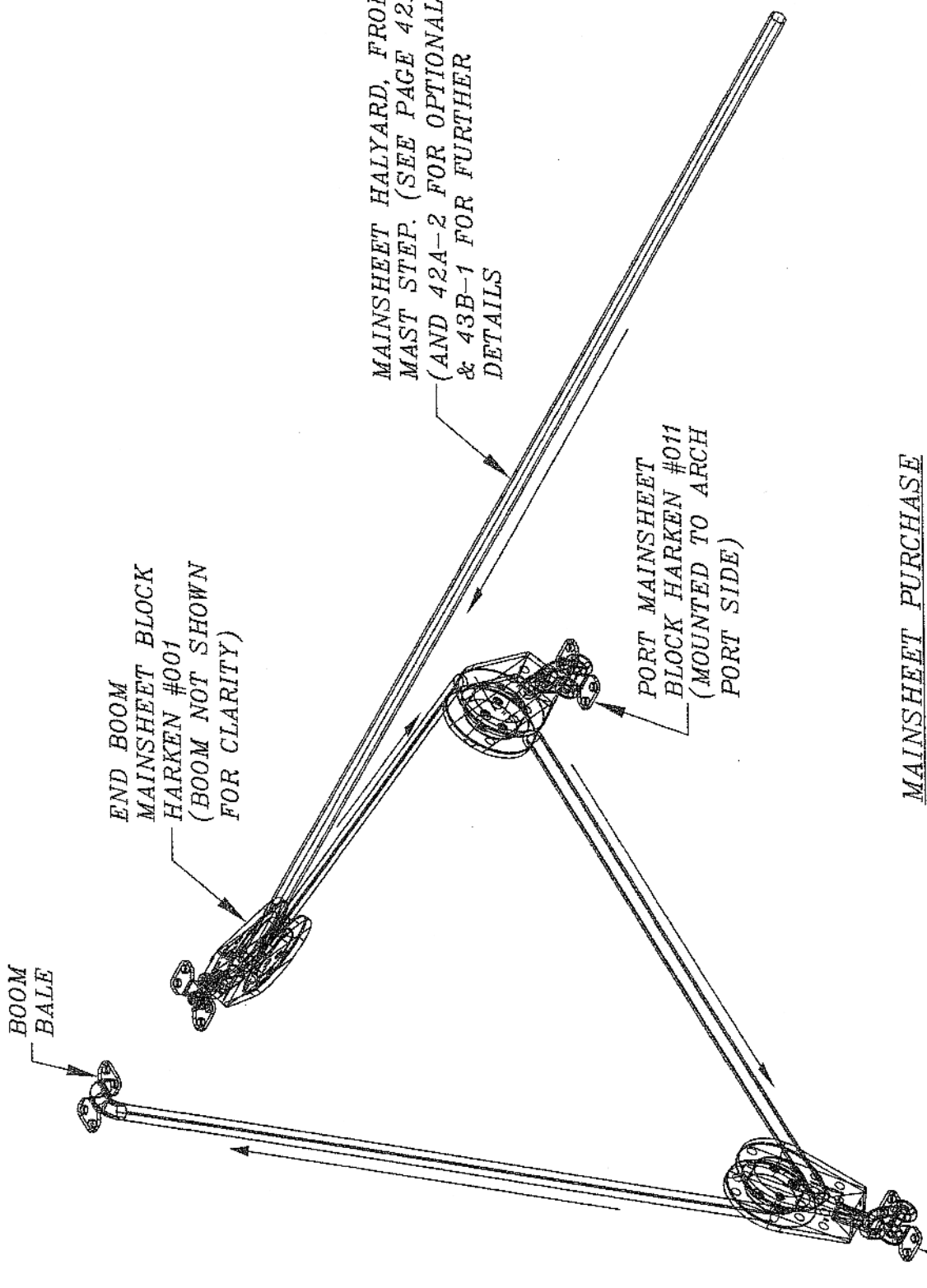
END BOOM
MANSHEET BLOCK
HARKEN #001
(BOOM NOT SHOWN
FOR CLARITY)

MANSHEET HALYARD, FROM
MAST STEP. (SEE PAGE 42A-1
(AND 42A-2 FOR OPTIONAL)
& 43B-1 FOR FURTHER
DETAILS

PORT MANSHEET
BLOCK HARKEN #011
(MOUNTED TO ARCH
PORT SIDE)

MANSHEET PURCHASE
(ARCH NOT SHOWN FOR CLARITY)

STBD MANSHEET
BLOCK HARKEN #011
(MOUNTED TO ARCH
STBD SIDE)



ISSUE TITLE: H340 STD. MANSHEET PURCHASE

DRAWING NO. 3408043B-2

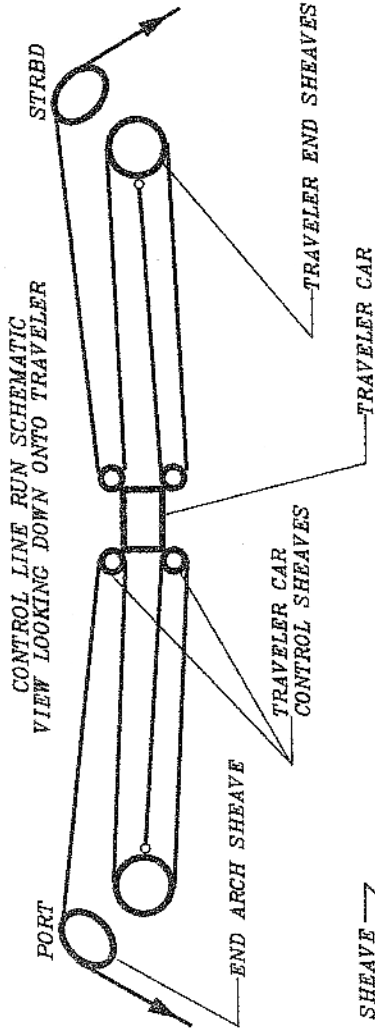
DESIGNER: NONE

DATE: 10/4/99

ENGINEERING DEPT.

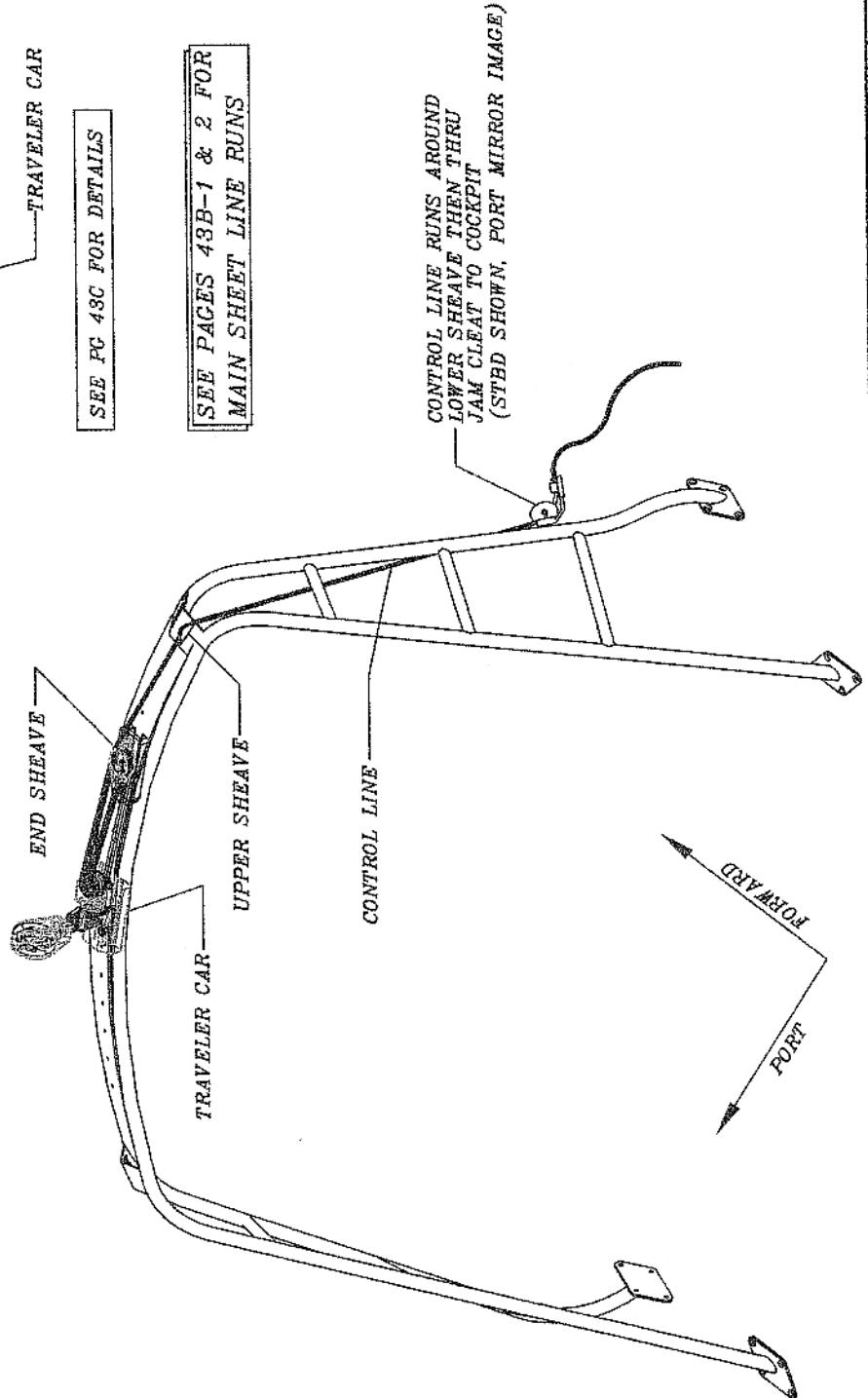
This document describes information for which HUNTER MARINE CORP. has proprietary rights.

HUNTER



SEE PC 43C FOR DETAILS

SEE PAGES 43B-1 & 2 FOR
MAIN SHEET LINE RUNS



POWER FILE: H340 OPT. TRAV. CONTROL LINE DETAILS

PROJECT NO. 40804-3B-3

PERSON NO. NONE

DATE 10/4/99.

ENGINEERING DEPT.

HUNTER

BOOM TOPPING LIFT CONNECTS
TO BOOM USING A 1/4" (6.4mm)
D-SHACKLE.

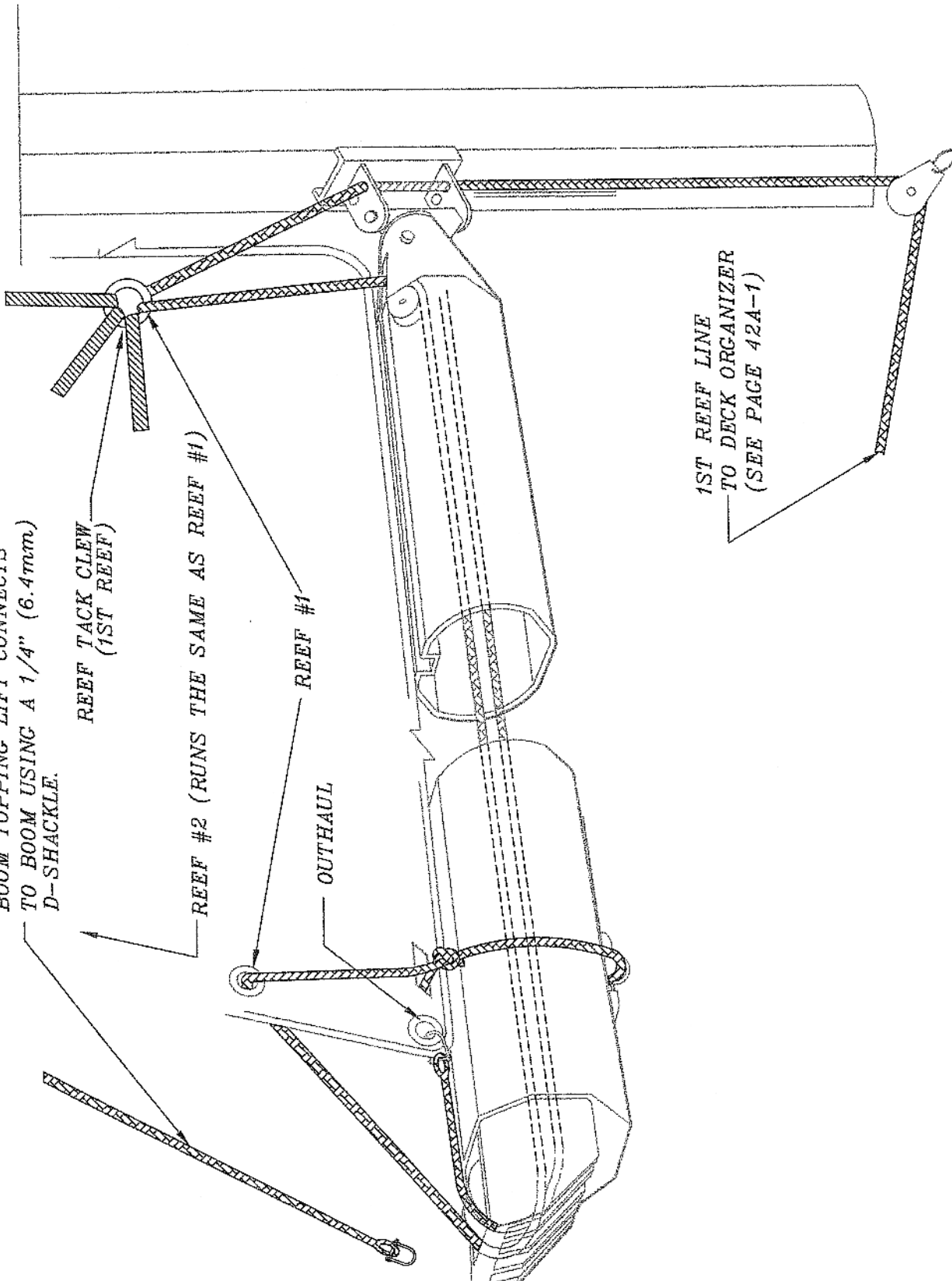
REEF TACK CLEW
(1ST REEF)

REEF #2 (RUNS THE SAME AS REEF #1)

REEF #1

OUTHHAUL

1ST REEF LINE
TO DECK ORGANIZER
(SEE PAGE 42A-1)



FOR GENERAL REFERENCE INFORMATION OR WITH LIMITED WARRANTY, CONTACT THE PROPRIETARY GROUP

HUNTER

PROJECT TITLE: **H340 BOOM AND REEF LAYOUT**

PROJECT NO.: 3408044A

DESIGN NO.: NONE

DATE: 10/5/99

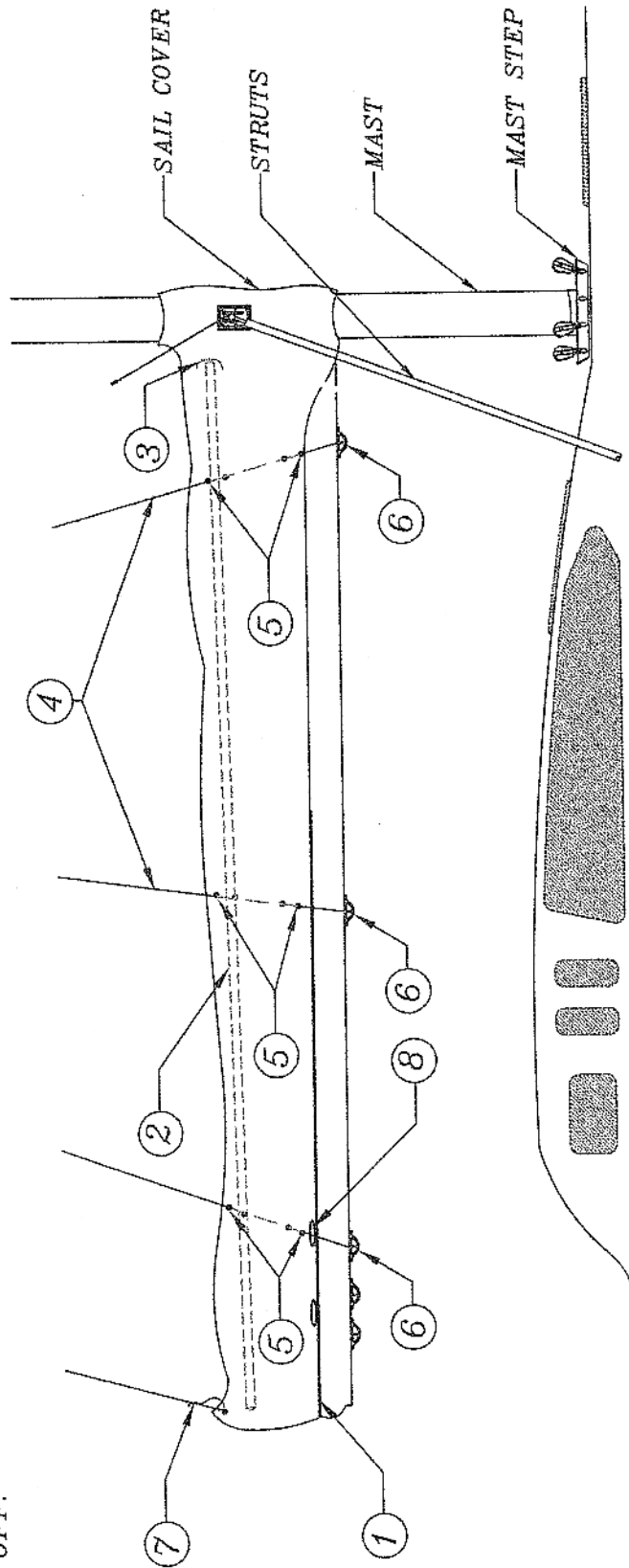
ENGINEERING DEPT.

SLIDE THE BOLTROPE ON THE TWO HALVES OF THE COVER INTO THE BOLTROPE TRACKS (1) ON BOTH SIDES OF THE BOOM. START FROM THE AFT END AND MAKE YOUR WAY FORWARD.

INSTALL THE PVC BATTENS (2) INTO EACH HALF OF THE SAIL COVER. THERE ARE POCKETS (3) THAT OPEN TOWARDS THE FRONT, ON THE INSIDE OF THE COVER. SLIDE THE BATTENS INTO PLACE FROM THE FRONT, AND ROLL THE INSIDE LIP OF THE POCKET BACK IN ORDER TO HOLD THE BATTENS STATIONARY.

FEED THE LAZYJACK LINES (4) DOWN THROUGH THE GROMMETS/RINGS (5) IN THE SAIL COVER, STARTING AT THE TOP AND COMING OUT AT THE BOTTOM OF THE COVER. DEAD END THE LINES TO THE BAILS ON THE UNDERSIDE OF THE BOOM (6).

TIE THE AFT END OF THE SAIL COVER UP TO THE TOPPING LIFT LINE USING THE PIECE OF STRING PROVIDED (7). USE HALF HITCH KNOTS TO SECURE THE COVER IN PLACE AT THE OUTER END OF THE BOOM. THE REEF LINES RUN OUT THROUGH THE COVER SLOTS (8) AND TIE OFF.



SAIL COVER ONLY OFFERED ON STANDARD MAST BOATS

For correct lock-up information for each HUNTER YACHTS CUP, see page 144B

HUNTER

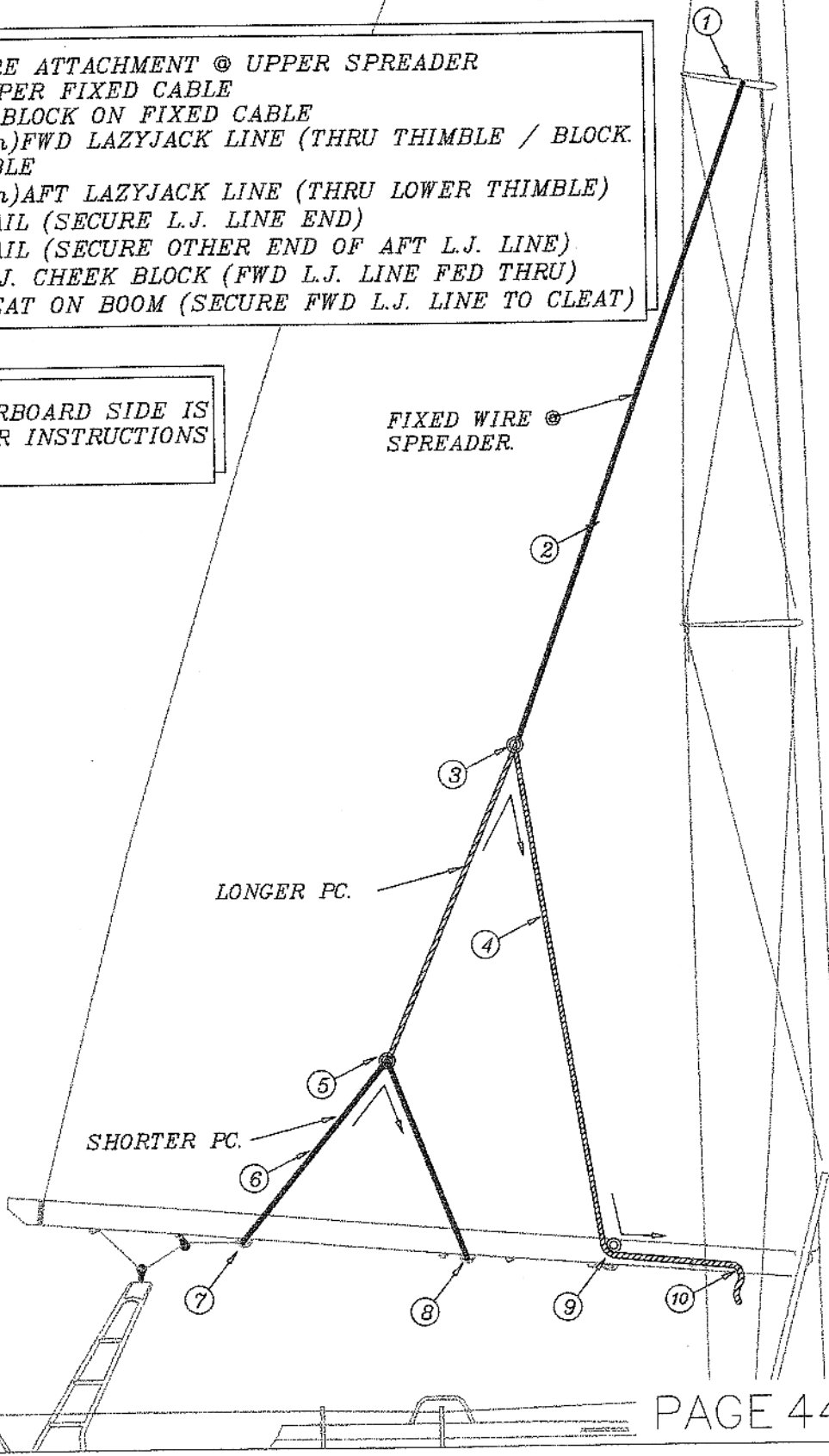
PROJECT TITLE: H340 HUNTER LAZYJACK SAIL COVER
 DRAWING NO.: 3-108044B
 SCALE: NONE
 DATE: 3/11/99
 DRAWN BY: ENGINEERING DEPT.

h340

HUNTER

1. LAZYJACK WIRE ATTACHMENT @ UPPER SPREADER
2. LAZYJACK UPPER FIXED CABLE
3. THIMBLE OR BLOCK ON FIXED CABLE
4. 5/16" (7.9mm) FWD LAZYJACK LINE (THRU THIMBLE / BLOCK)
5. LOWER THIMBLE
6. 5/16" (7.9mm) AFT LAZYJACK LINE (THRU LOWER THIMBLE)
7. AFT BOOM BAIL (SECURE L.J. LINE END)
8. MID BOOM BAIL (SECURE OTHER END OF AFT L.J. LINE)
9. FWD BOOM L.J. CHEEK BLOCK (FWD L.J. LINE FED THRU)
10. LAZYJACK CLEAT ON BOOM (SECURE FWD L.J. LINE TO CLEAT)

NOTE: THE STARBOARD SIDE IS SHOWN. MIRROR INSTRUCTIONS FOR PORT



FOR COMPLETE INSTRUCTIONS REFER TO MAIN MATHS WIRE. (SEE THE PROPRIETARY SYSTEM)

PROVING TITLE: H340 LAZY JACKS INSTALLATION INSTRUCTIONS

PROJECT NO. 3408044C	SCALE NONE	DATE
ISSUED BY: ENGINEERING DEPT	DATE 10/4/99	

REEFING INSTRUCTIONS

1. SHACKLE TACK REEF BLOCKS TO FIRST AND SECOND REEF TACK CRINGLES.
2. RUN BOTH REEFING LINES AS ILLUSTRATED IN THE BOOM & REEF LAYOUT. BOTH PORTIONS OF THE REEFING LINE LEADING TO THE REEF TACK BLOCK MUST RUN THROUGH THE GOOSE NECK ON THE AFT OF THE SPAR. THE SHORTER REEF LINE WILL BE USED ON THE FIRST REEF (STARBOARD SIDE, GREEN) THE LONGER REEF LINE ON THE SECOND REEF (PORT SIDE, RED.)
3. RAISE THE MAIN SAIL.
4. EASE THE MAINSHEET AND VANG.
5. LOWER THE MAIN SAIL TO APPROXIMATELY THE FIRST REEF POSITION.
6. TAKE UP THE SLACK IN THE FIRST REEF LINE UNTIL THE TACK AND THE CLEW ARE DOWN TO ABOUT 2" ABOVE THE BOOM.
7. ADJUST THE MAIN HALYARD SO THAT THE TACK REEF BLOCK IS NOT CONTACTING THE GOOSE NECK ON THE FRONT OF THE SPAR AND IS APPLYING TENSION TO THE LUFF OF THE MAIN ABOVE THE REEF, NOT BELOW. THERE WILL BE APPROXIMATELY 6" (150mm) OF STRETCH IN THE MAIN LUFF AND MAIN HALYARD WHEN THE REEFING LINE IS TENSIONED, SO MAKE SURE THAT THIS IS ALLOWED FOR WHEN ADJUSTING THE MAIN HALYARD TO LOCATE THE TACK REEF BLOCK.
8. ALSO, TENSION THE REEF LINE WITH THE APPROPRIATE SELF-TAILING WINCH UNTIL THE CLEW REEF CRINGLE IS BROUGHT DOWN TO THE BOOM.
9. CONFIRM THAT THE TACK REEF BLOCK IS STILL CLEAR OF THE TACK SHACKLE AND THAT ONLY THE MAIN LUFF ABOVE THE REEF CRINGLE IS TENSIONED, NOT THE LUFF BETWEEN THE CRINGLE AND THE TOP STACKED SAIL SLIDE. EASE THE REEF LINE AND READJUST THE HALYARD IF NECESSARY.
10. MARK THE HALYARD AT THE STOPPER WITH A 1" (25mm) SINGLE BAND OF INDELIBLE MARKER INK. BY DROPPING THE HALYARD TO THIS MARK EVERY TIME A REEF IS REQUIRED THE HALYARD IS AUTOMATICALLY IN THE CORRECT POSITION FOR THE REEF.
11. REPEAT THE PROCEDURE FOR THE SECOND REEF, USING DOUBLE BANDS TO MARK THE HALYARD IN THE CORRECT POSITION.

REEFING PROCEDURE

1. HEAD UP INTO THE WIND.
2. EASE THE MAINSHEET AND VANG.
3. CHECK THE TOPPING LIFT FOR ADEQUATE BOOM SUPPORT.

SHAKING OUT A REEF

1. HEAD UP INTO THE WIND.
2. EASE THE MAINSHEET AND VANG. RELEASE THE TENSION ON THE TOPPING LIFT. (IF NEEDED)
3. RELEASE THE REEF STOPPER AND REMOVE REEF LINE FROM WINCH.

4. LOWER THE MAIN HALYARD TO THE APPROPRIATE MARK, AND SNUB THE LINE WITH THE STOPPER.
5. TENSION THE REEFING LINE WITH THE SELF-TAILING WINCH UNTIL THE REEF CLEW IS BROUGHT DOWN TO THE BOOM. APPLY STOPPER AND TENSION THE MAIN HALYARD BACK UP. EASE THE TOPPING LIFT. (IF NEEDED)

4. TENSION THE MAIN HALYARD TO RAISE SAIL, MAKING SURE REEF LINES RUN FREELY WHILE SAIL IS BEING RAISED. APPLY STOPPER TO MAIN HALYARD.
5. RE-TENSION VANG AND MAINSHEET. EASE THE TOPPING LIFT. (IF NEEDED)

OWNER TITLE: **H340 STANDARD REEFING INSTRUCTIONS**

FORM NO. 3408045 FORM NO. NONE DATE 10/4/98

ENGINEERING DEPT.

The correct fabric material for this Hunter Sloop 1000. See previous page.

HUNTER

340 SELDEN STANDARD RUNNING RIGGING SPECIFICATIONS

BOAT: h340	FILE NAME: R10911	REVISION: LENGTHENED TRAVELER CONTROLS 12/12/97
BY: KJC	DATE: 11/20/96	ADDED BOOM TOPPING LIFT 9/4/98
PARTNUMBER: 406772	DATE: 11/20/96	ADDED THIMBLE TO ADJUSTABLE L.J. LINE 11/20/98

OPT/STD	ITEM	QUANTITY	LINE SIZE	LINE TYPE	COLOR	END 1	LENGTH	END 2
1 STD	MAIN HALYARD	1	7/16" (11mm)	XLS EXTRA	BLUE	HEADBOARD SHACKLE	34.3 m 113 ft	BARE
2 STD	JIB HALYARD	1	3/8" (9.5mm)	XLS	RED	SMALL EYE	31.0 m 102 ft	BARE
3 OPT.	MAIN TRAVELER LINE	2	5/16" (8mm)	LS	WHITE	SMALL EYE	7.9 m 26 ft	BARE
4 STD	MAINSHEET	1	3/8" (9.5mm)	XLS	BLUE FLECK	SMALL EYE	19.3 m 63 ft	BARE
5 STD	REEFING LINE #1	1	3/8" (9.5mm)	LS	GREEN FLECK	BARE	20.4 m 67 ft	BARE
6 STD	REEFING LINE #2	1	3/8" (9.5mm)	LS	RED FLECK	BARE	28.9 m 95 ft	BARE
7 STD	JIB SHEET	2	7/16" (11mm)	LS	RED FLECK	BARE	11.4 m 38 ft	BARE
8 OPT	SPINN. SHEET	2	3/8" (9.5mm)	LS	BLACK FLECK	BARE	22.9 m 75 ft	BARE
9 OPT	SPINNAKER HALYARD	1	3/8" (9.5mm)	XLS	BLACK	SNAP SHACKLE NF11000s	28.5 m 94 ft	BARE
10 STD	VANG	1	3/8" (9.5mm)	LS	WHITE	SMALL EYE	9.6 m 31 ft	BARE
11 STD	BOOM TOPPING LIFT	2	5/16" (8mm)	LS	WHITE	SMALL EYE	30.3 m 99 ft	BARE
12 STD	LAZY JACK WIRE	2	1/8" (3.2mm)	PLASTIC COATED 7x7 WIRE	WHITE	EYE & THIMBLE, SMALL SHACKLE	5.2 m 17 ft	EYE & LARGE THIMBLE
13 STD	LAZY JACK LINE	2	5/16" (8mm)	LS	WHITE	BARE	4.9 m 16 ft	BARE
14 STD	ADJUSTABLE LAZY JACK LINE	2	5/16" (8mm)	LS	WHITE	BARE	9.0 m 30 ft	SPLICE & SS THIMBLE

HUNTER
 H340 STANDARD RUNNING RIGGING SPECS.
 DRAWING NO. 340S046A
 ENGINEERING DEPT. DATE 10/4/99
 REVISION NO. NONE

FURLING RUNNING RIGGING SPECIFICATIONS

BOAT: h340
 BY: KJC
 CHECKED BY:

FILE NAME: 340 SELDEN RUNNING
 DATE: 2/6/98
 REVISION: b
 add 12' to spinnaker halyard
 3/1/99

OPT/STD	ITEM	QUANTITY	LINE SIZE	LINE TYPE	COLOR	END 1	LENGTH	END 2
1 STD	JIB HALYARD	1	3/8" (9.5mm)	XLS	RED	SMALL EYE	34.8 m 114 ft	BARE
2 OPT	MAIN TRAVELER LINE	2	5/16" (8mm)	LS	WHITE	SMALL EYE	7.9 m 26 ft	BARE
3 STD	MAINSHEET	1	3/8" (9.5mm)	XLS	BLUE FLECK	SMALL EYE	19.3 m 63 ft	BARE
4 STD	JIB SHEET	2	7/16" (11mm)	LS	RED FLECK	BARE	11.4 m 38 ft	BARE
5 OPT	SPINN. SHEET	2	3/8" (9.5mm)	LS	BLACK FLECK	BARE	22.9 m 75 ft	BARE
6 STD	MAIN FURLING LINE	1	3/8" (9.5mm)	LS	BLUE	BARE	11.0 m 36 ft	BARE
7 OPT	SPINNAKER HALYARD	1	3/8" (9.5mm)	XLS	BLACK	SNAP SHACKLE NF11000s	32.3 m 106 ft	BARE
8 STD	BOOM TOPPING LIFT	1	5/16" (8mm)	XL	WHITE	SMALL EYE W/D-SHACKLE	29.6 m 97 ft	BARE

HUNTER

H340 FURLING RUNNING RIGGING SPECS.

DRAWING NO. 3-1080-46B
 DATE 10/4/99
 REVISION NO. NONE
 DEPT. ENGINEERING, DEPT.

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h340 B&R RIG WITH STRUTS DESCRIPTION

The B&R rig, utilized on the Hunter 340, eliminates the need for a backstay to allow for a more efficient mainsail shape. Fixed backstays are commonly being designed out of today's performance-oriented boats to allow the mainsail to incorporate a full roach design - a more aerodynamic shape both for racing and cruising performance.

To accomplish this, the B&R rig has 30 degree swept spreaders, creating 120 degrees between each rigging point. This tri-pod arrangement has excellent strength for sailboat rigs, and has been used for years to support huge radio towers.

The latest advancement to the B&R rig is the addition of mast struts. These struts stabilize the lower section of the mast, allowing compression loads to be spread, reducing the point loading at the mast base. They also create a strong point for the boom and spinnaker pole loadings. The struts function also allow us to use a smaller mast section reducing weight aloft to decrease the heeling and pitching moments, making for a more comfortable ride. Additionally, they provide a secure handhold when going forward.

The struts perform an important structural function, **therefore never sail your boat without the struts properly fitted.** If your 340 is equipped with the in-mast furling option, the mast is a larger section size and the struts are not utilized.

Additional support is given to the B&R rig (and is unique to it) with the

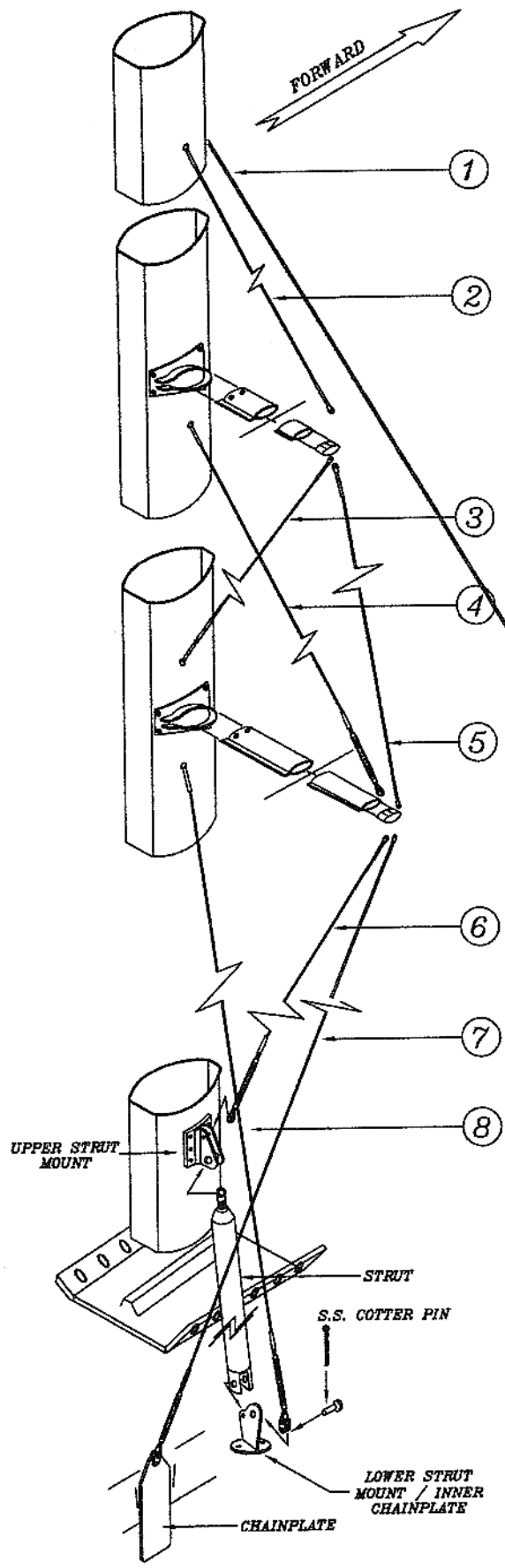
addition of reverse diagonal rigging. For example, the diagonals that you see beginning by the top of the mast strut, ending at the tip of the spreader, supports and stabilizes the upper section of the mast as it creates a triangle with the upper shroud.

The B&R rig is designed to be pre-bent to further add rigidity to the mast section and eliminate the need for adjustable rigging (like backstay adjusters). This design should prove more reliable than a rig with adjustable backstays or runners, as there is less chance for error.

The large main, small jib, sail plan on the 340 also eliminates the need for large overlapping headsails (genoas), as the driving power comes from the much improved shape and size of the mainsail. This allows for an easier tacking small jib, creating good performance and more comfortable sailing as it is less work for the crew.

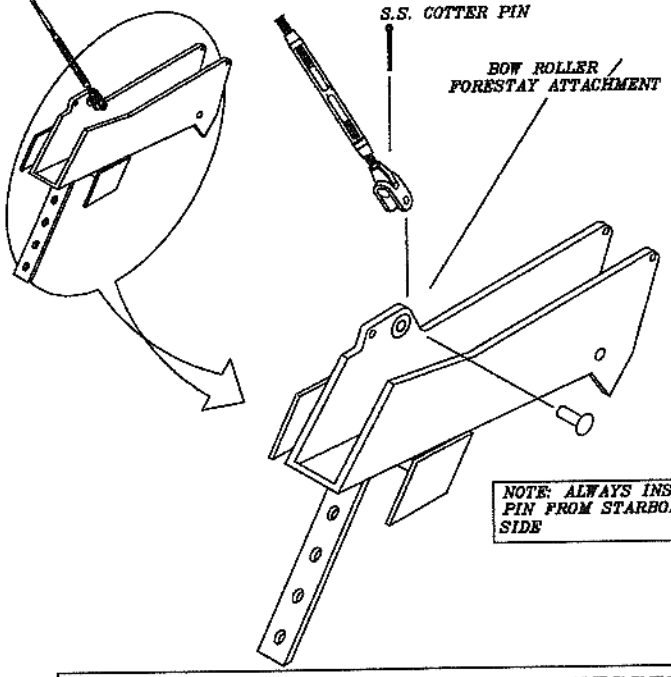
As the large main is creating additional mainsheet and leech loading, Hunter has included a cockpit arch whereby the mainsheet and leech loads are directed to the strong part of the boom (the outboard end) and is located at the heaviest loading point of the mainsail. The cockpit arch serves addition safety and comfort functions as handholds and cockpit canvas attachment points.

B&R rigs have been used on thousands of sailboats, and we are proud to incorporate this successful design on your new Hunter.



- ① FORESTAY 1/4" (6.4mm) 1 X 19
- ② D3 1/4" (6.4mm) 1 X 19
- ③ RD2 3/16" (4.8mm) 1 X 19
- ④ D2 3/16" (4.8mm) 1 X 19
- ⑤ V2 1/4" (6.4mm) 1 X 19
- ⑥ RD1 3/16" (4.8mm) 1 X 19
- ⑦ V1 9/32" (7.1mm) 1 X 19
- ⑧ D1 1/4" (6.4mm) 1 X 19

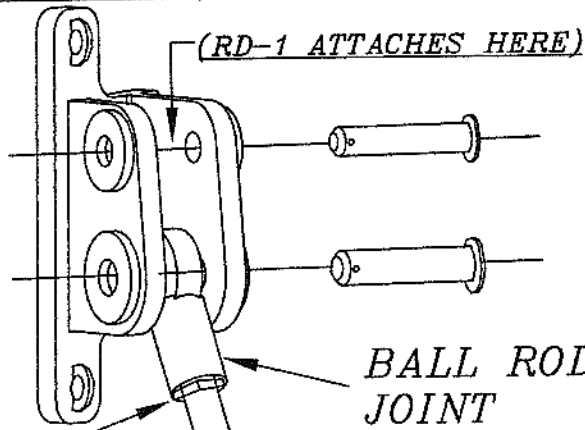
NOTES:
 1. SEE PAGES 49A & B FOR FURTHER SPREADER TIP INFORMATION
 2. SEE PAGES 50A FOR STANDARD MAST STANDING RIGGING LENGTHS AND OTHER INFORMATION.
 3. SEE PAGES 51 FOR FITTING DESCRIPTIONS



NOTE: ALWAYS INSERT PIN FROM STARBOARD SIDE

NOTE: NEVER TRY TO SAIL THE VESSEL WITHOUT THE STRUTS IN PLACE AND PROPERLY FASTENED (SEE PAGE 48B)
NOTE: IN-MAST FURLING OPTION USES A LARGER MAST SECTION AND THUS DOES NOT UTILIZE THE STRUTS. SEE FOLLOWING PAGE FOR MORE INFO.

(UPPER STRUT MOUNT
ON EA. SIDE OF MAST)



STEP TWO
ADJUST THREADS UNTIL BALL ROD
JOINT IS ABLE TO BE EASILY PINNED
IN STRUT BRACKET

STEP THREE
PIN BALL ROD JOINT AND TIGHTEN
JAM NUT AGAINST END OF STRUT &
BALL JOINT ROD

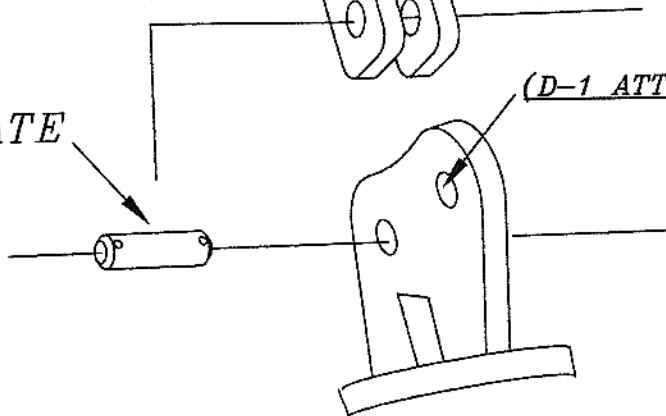
JAM NUTS

STRUT

STEP ONE
PIN LOWER END OF STRUT TO
CHAINPLATE AND ADD SPLIT
RINGS

LOWERS
CHAINPLATE

(D-1 ATTACHES HERE)

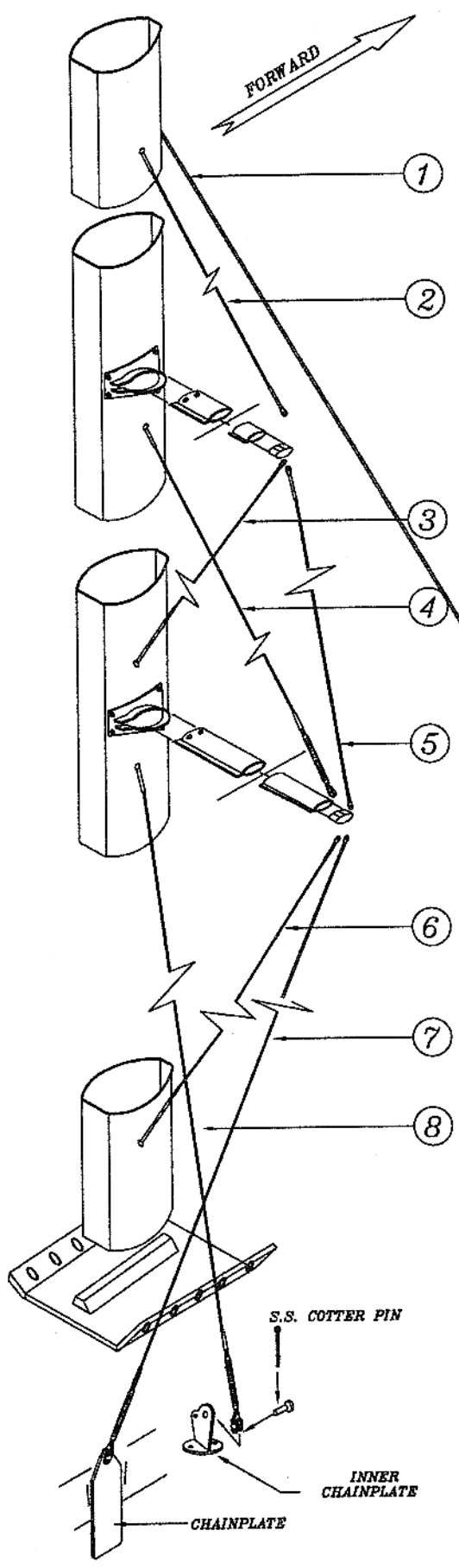


THE HUNTER ENGINEERING DEPARTMENT IS A DIVISION OF HUNTER ENGINEERING CORP. 10/4/98

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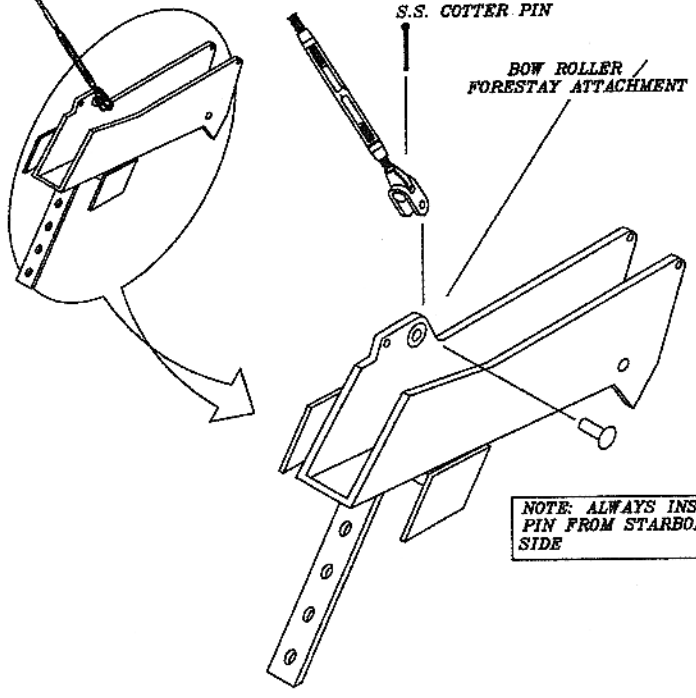
H340 STRUT ASSEMBLY

PROJECT NO.	34080488
REVISION NO.	NONE
DATE	10/4/98
ENGINEERING DEPT.	



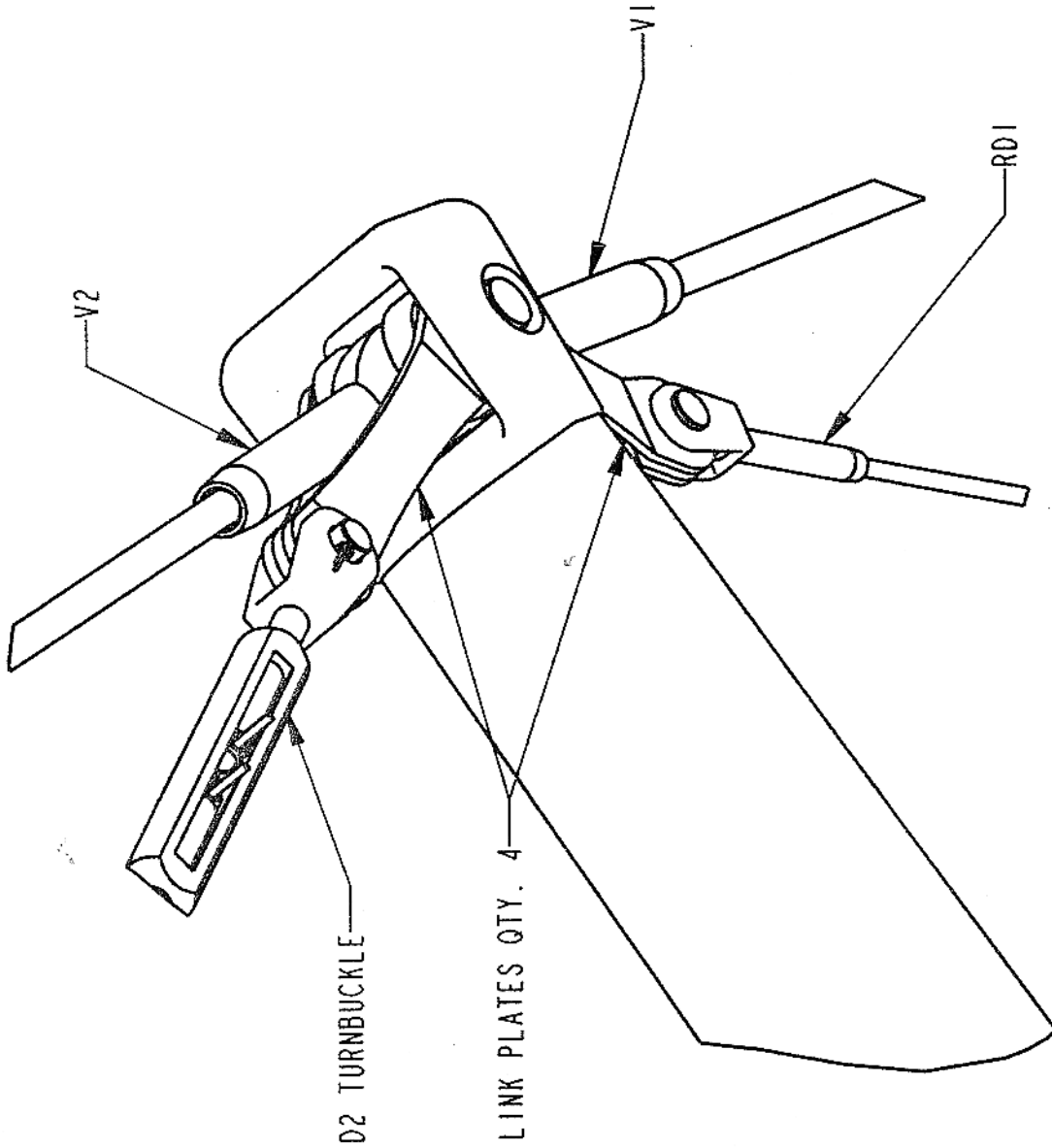
- ① FORESTAY 1/4" (6.4mm) 1 X 19
- ② D3 1/4" (6.4mm) 1 X 19
- ③ RD2 3/16" (4.8mm) 1 X 19
- ④ D2 3/16" (4.8mm) 1 X 19
- ⑤ V2 1/4" (6.4mm) 1 X 19
- ⑥ RD1 3/16" (4.8mm) 1 X 19
- ⑦ V1 9/32" (7.1mm) 1 X 19
- ⑧ D1 1/4" (6.4mm) 1 X 19

NOTES:
 1. SEE PAGES 49A & B FOR FURTHER SPREADER TIP INFORMATION
 2. SEE PAGES 50A FOR STANDARD MAST STANDING RIGGING LENGTHS AND OTHER INFORMATION.
 3. SEE PAGES 51 FOR FITTING DESCRIPTIONS

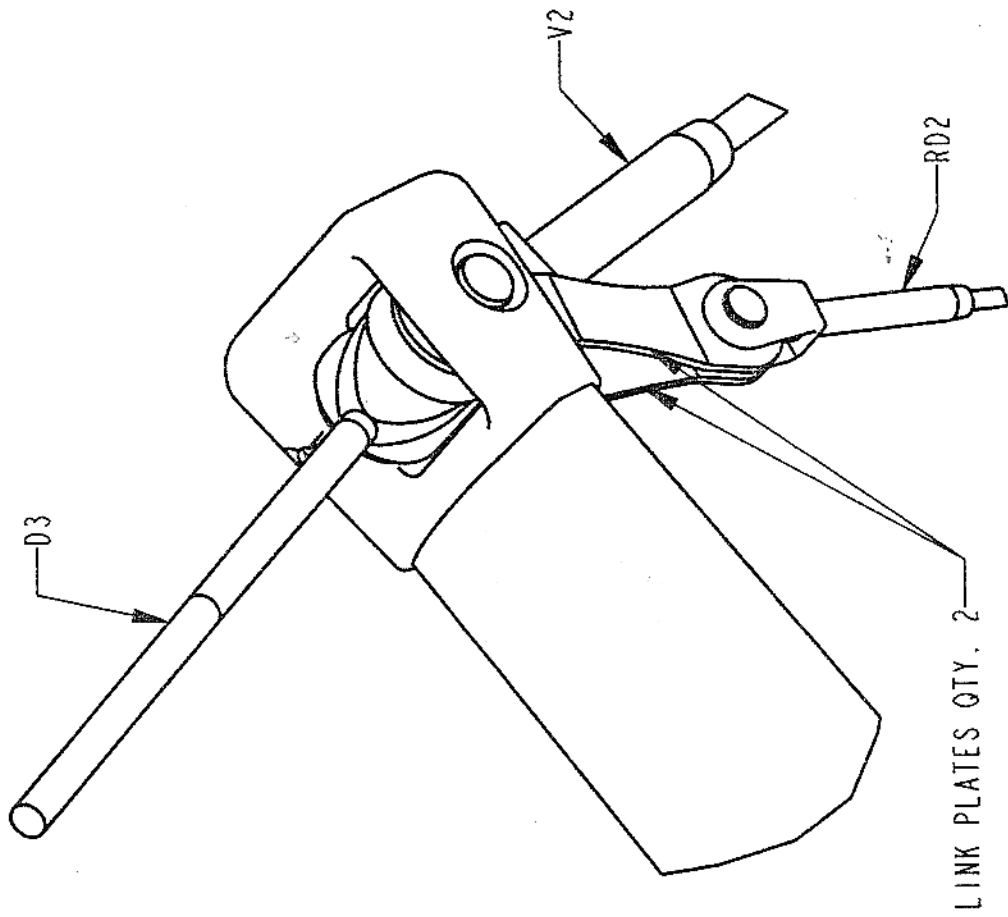


NOTE: ALWAYS INSERT PIN FROM STARBOARD SIDE

NOTE: IN-MAST FURLING OPTION USES A LARGER MAST SECTION AND THUS DOES NOT UTILIZE THE STRUTS.



DRAWING TITLE: **SELDEN MAST LOWER SPREADER TIP**
 HUNTERA
 REVISION NO. _____ DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____
 DATE: _____
 HUNTERA

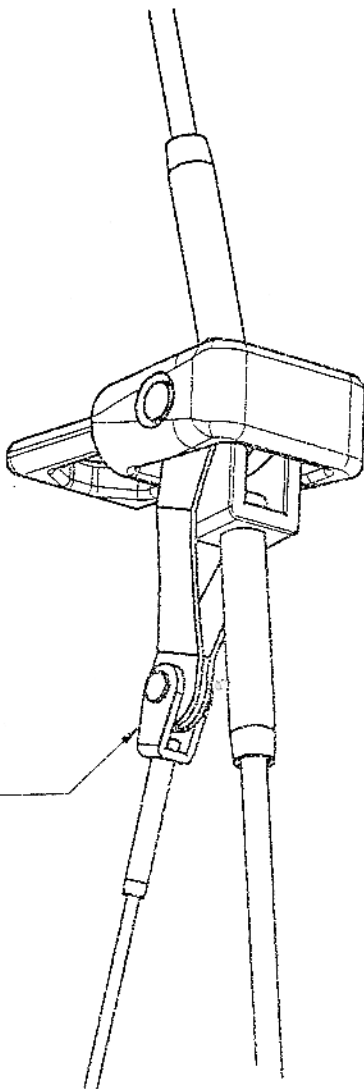


DRAWING TITLE: **SELDEN MAST UPPER SPREADER TIP**
 PARTIAL NO.: E
 DRAWING NO.: 10000
 SCALE: 1:1
 DATE: 10-14-10

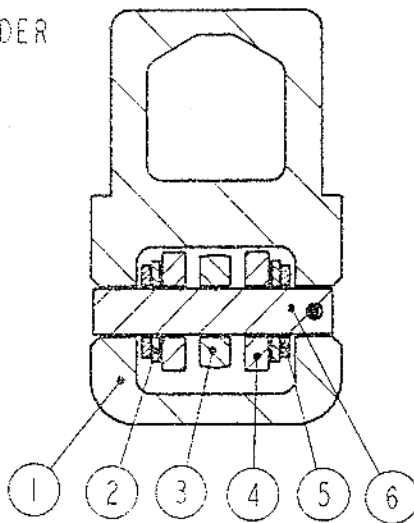
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HUNTERA

UPPER SPREADER



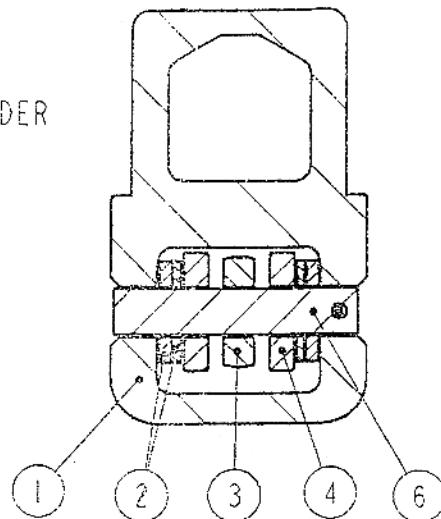
NYLON WASHERS
BETWEEN STRIPS
TO FILL OUT
EXCESSIVE PLAY



1. SPREADER TIP CASTING
2. NYLON WASHER
3. MARINE EYE
4. TOGGLE
5. LINK PLATES
6. SPREADER TIP PIN

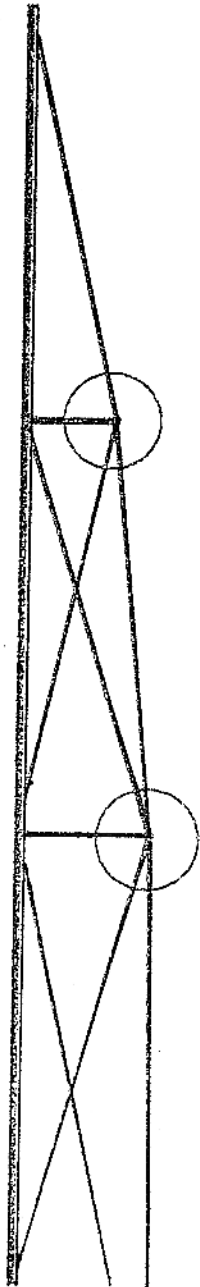
NOTE: OTHER LINK PLATES
WILL ATTACH TO SPREADER
TIP ON EITHER SIDE OF #3.

LOWER SPREADER

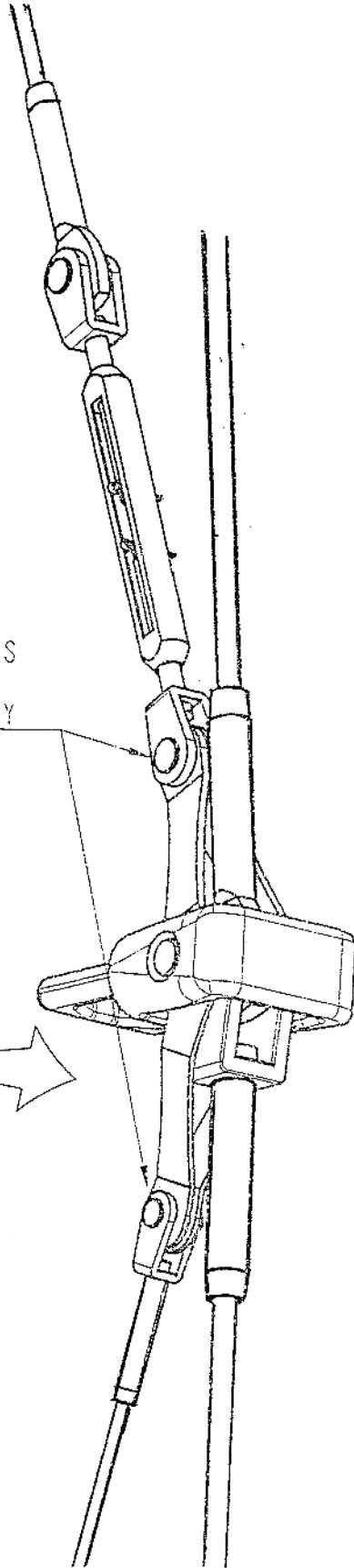


HUNTER
 be deemed address information for such HUNTER WORK CORP. for proprietary info.

PARTS TITLE SELDEN MAST SPREADER TIP DETAIL	
EXCISE NO. 4608049C	NONE
DATE 3/3/99	ENGINEERING DEPT.



NYLON WASHERS
BETWEEN STRIPS
TO FILL OUT
EXCESSIVE PLAY



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DRAWING TITLE: SELDEN MAST SPREADER TIP DETAIL CONT		HUNTER ENGINEERING CO.
DRAWING NO. 4008049D	REVISION NO. NONE	DATE 3/3/99
DRAWN BY ENGINEERING DEPT.		

h340 STANDARD STANDING RIGGING SPECIFICATIONS

REVISION: ADDED SUNSAIL SPECS 9/17/99

BY: KJC DATE: 26-May-98

OPT/STD	ITEM	QUANTITY	WIRE SIZE	UPPER END	LENGTH	LOWER END
1	D3	2	1/4" (6.4mm) 1x19	GIBB 841 SHROUD TERMINAL	11 ft. 10 3/4 in.	MARINE EYE W/ 1/2" PIN
2	V2	2	1/4" (6.4mm) 1x19	JAW TOGGLE W/ 1/2" PIN	12 ft. 4 in.	MARINE EYE W/ 1/2" PIN
1	D2	2	3/16" (5mm) 1x19	GIBB 741 T-HOOK	11 ft. 9 1/4 in.	6-12-12 TURNBUCKLE W/ JAW TOGGLE WITH 3/8" PIN
2	V1	2	9/32" (7mm) 1x19	JAW TOGGLE W/ 1/2" PIN	20 ft. 3 3/4 in.	9-16-16 TURNBUCKLE W/ JAW TOGGLE FOR 1/2" PIN
3	D1	2	1/4" (6.4mm) 1x19	GIBB 840 SHROUD TERMINAL	19 ft. 2 in.	8-12-12 TURNBUCKLE W/ JAW FOR 3/8" PIN
3	UPPER DIAMOND, RD2	2	3/16" (5mm) 1x19	RIGGING TOGGLE JAW W/ 3/8" PIN	12 ft. 4 in.	6-10-10 TURNBUCKLE WITH GIBB 740 SHROUD TERMINAL
4	LOWER DIAMOND, RD1	2	3/16" (5mm) 1x19	RIGGING TOGGLE JAW W/ 3/8" PIN	14 ft. 6 1/2 in.	6-10-10 TURNBUCKLE WITH UPSET TOGGLE
5	FORESTAY %%	1	1/4" (6.4mm) 1x19	MARINE EYE	45 ft. 1 in.	OS JAW TOGGLE, SHIP TOGGLE LOOSE WITH PINS

** LENGTH INCLUDES LINK PLATE IF USED

ALL ADJUSTABLE RIGGING IS DIMENSIONED WITH TURNBUCKLES 2/3 OPEN
 %% FORESTAY PROVIDED BY FURLEX, EXCEPT FOR SUNSAIL BOATS

HUNTERA
 H340 STANDARD STANDING RIGGING SPECS.
 DRAWING NO. 3-408050A
 REVISION NO. NONE
 DATE 10/4/98
 ENGINEERING DEPT.

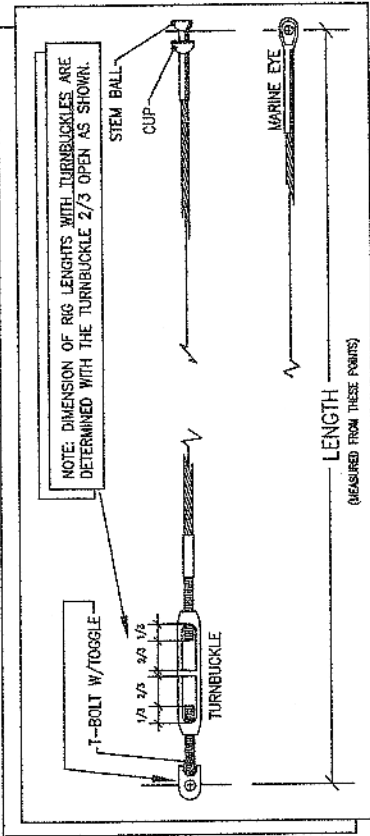
340 SELDEN FURLING MAST STANDING RIGGING

PART NUMBER		406835	DATE	REVISION:			
OPT/STD	ITEM	QUANTITY	WIRE SIZE	UPPER END	LENGTH	LOWER END	
1 STD	HEADSTAY %%	1	1/4" (6mm) 1x19	MARINE EYE RIGGING	45 ft. 1 in	JAW TOGGLE LOOSE, 1/2" PIN	
2 STD	V2	2	1/4" (6mm) 1x19	TOGGLE JAW W/ 1/2" PIN	14 ft. 1/4 in	MARINE EYE w/ 1/2" PIN	
3 STD	D3	2	1/4" (6mm) 1x19	841-1/4" SHROUD TERMINAL	13 ft. 3 1/4 in	MARINE EYE w/ 1/2" PIN	
4 STD	V1	2	9/32" (7mm) Dyform	RIGGING TOGGLE JAW W/ 1/2" PIN	17 ft. 4 1/8 in	TURNBUCKLE 9-16-16, TOGGLE FOR 1/2" PIN	
5 STD	D1	2	1/4" (6mm) 1x19	841-1/4" SHROUD TERMINAL	16 ft. 1 in	TURNBUCKLE 8-12-12 W/ JAW TOGGLE FOR 3/8"	
6 STD	D2	2	3/16" (4.75mm) 1x19	GIBB 740-3/16 T-HOOK SHROUD TERMINAL	13 ft. 4 1/4 in	TURNBUCKLE 6-10-10 TOGGLE W/ 3/8"	
7 STD	RD1	2	3/16" (4.75mm) 1x19	RIGGING TOGGLE JAW	11 ft. 11 in	GIBB T-BALL SHROUD TERMINAL	
8 STD	RD2	2	3/16" (4.75mm) 1x19	RIGGING TOGGLE JAW W/ 3/8" PIN	13 ft. 9 3/4 in	TURNBUCKLE 6-10-10 GIBB T-BALL SHROUD TERMINAL	

DRAWING TITLE: H340 FURLING STANDING RIGGING SPECS.
 DRAWING NO: 3408050B
 REVISION: NONE
 DATE: 10/4/98
 DEPT: ENGINEERING DEPT.

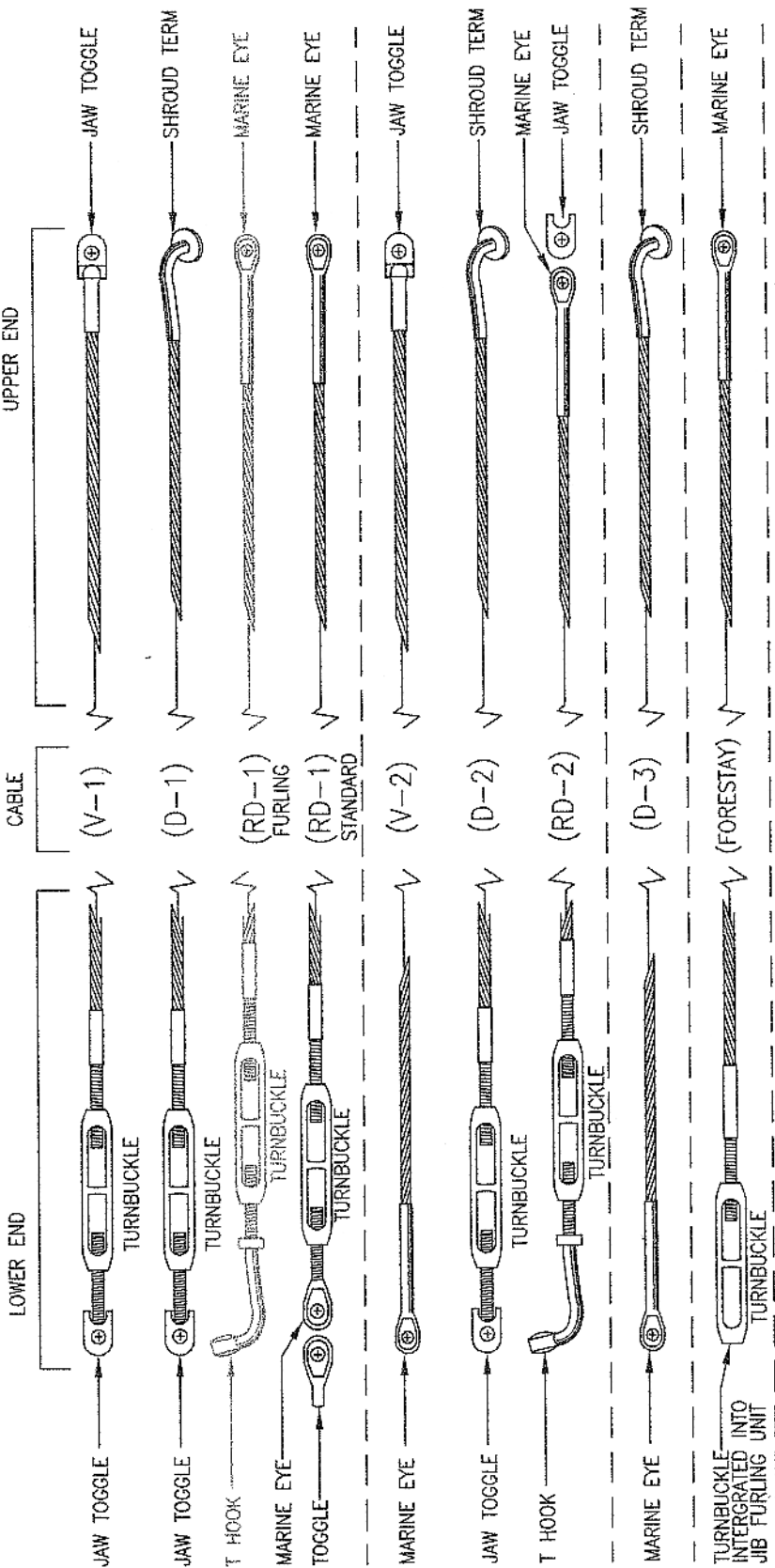
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V = VERTICAL
 D = DIAGONAL
 RD = REVERSE DIAGONAL
 1 = LOWER
 2 = INTER.
 3 = UPPER

NOTE: SEE PAGES 50A & 50B FOR ACTUAL RIG LENGTHS.



DRAWING TITLE: **340 RIGGING LENGTHS DETAIL**
 DRAWING NO.: 3408051
 PERSON NO.: NONE
 DATE: 10/5/99
 DRAWN BY: ENGINEERING DEPT

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HUNTERA

TUNING THE H340 B&R RIG

The easiest method for tuning the B&R rig is to perform step one as follows before the mast is stepped, with it lying aft side down on two sawhorses. Begin with all rigging slack. If the mast is already stepped, loosen all the rigging, and then proceed to step one.

1. Start with all the rigging slack. Then induce the mast bend by tightening the reverse diagonals (diamonds). Measure the bend by tensioning a line or the main halyard between the masthead and the gooseneck. The maximum amount of bend should be no more than 8" [203mm] for the standard rig and no more than 2" [50mm] for the furling mast. Measured perpendicular from the aft face of the mast to the halyard at the deepest part of the bend. It can be less than that based on the sail shape and your own preference. The bend should also be evenly distributed along the mast to give a smooth shape. Keep in mind that bending a furling mast may make it more difficult to furl and will not do much to flatten the sail as in a standard rig. It is very important that the mast also be straight from side to side at this time. Tighten or loosen the reverse diagonals to achieve this.
2. Step the mast with all shrouds attached but with the turnbuckles completely loosened (if the mast was not already stepped).
3. Attach the jib halyard to a cleat on the bow to support the mast in a raked position (the masthead should be about 2'-0" [~600mm] behind the step). Attach the verticals and tighten them until you can just see the hole for the cotter pin in the turnbuckle. Tighten the jib halyard until you can attach the forestay. At this point the masthead should be raked so that a weight hung on the main halyard hangs about 1' behind the mast step.
4. Use the main halyard to check that the mast is centered from side to side. Pull it tight and mark the halyard next to the verticals chainplate. Now do the same to the other side to see if the marks line up. If not, tighten and/or loosen the verticals until the marks line up. Once the masthead is centered, begin tightening the verticals until the turnbuckles are approximately half closed. While tightening the verticals you may notice the bend in the mast increasing. Now you can tighten the lowers which will tend to straighten the lower part of the mast. Be sure to tighten port and starboard sides evenly.
5. Now you should tighten the headstay until it is approximately half closed as well. This should induce the appropriate amount of headstay tension. Never use anything more than a pair of wrenches to tighten your rigging. If you use an extended piece of pipe on the handle of a wrench you can over tighten the rigging and do damage to the mast or rigging.
6. On the Hunter 340 it is necessary to go up the mast in a bosun's chair to tighten the number 2 diagonal shroud (D2 or intermediate shroud). Always use caution when "going aloft". You should always use a mountain climbing harness or Bosun's Chair intended for this use. Always tie into the harness with the halyard using a bowline and then secure the shackle as a back up as the knot is more reliable than a mechanical fastener. The person hoisting you aloft should keep the halyard stopper closed to prevent falls. Good communication between the two of you is also important. Tighten the D2 until it has just become tight and then add two complete turns. While at the first spreader, look up the back of the mast to see if it is straight (rather than bent from side to side). If it is not straight then adjust the appropriate D2 to straighten it.
7. Have the person on deck carefully lower you. They should keep the halyard wrapped at least twice around the winch and should always have one hand able to stop the halyard from running free. Once on deck look up the back of the mast and see if it is straight (rather than bent from side to side). If not then adjust the lowers (D1) until it is.

TUNING THE H340 B&R RIG

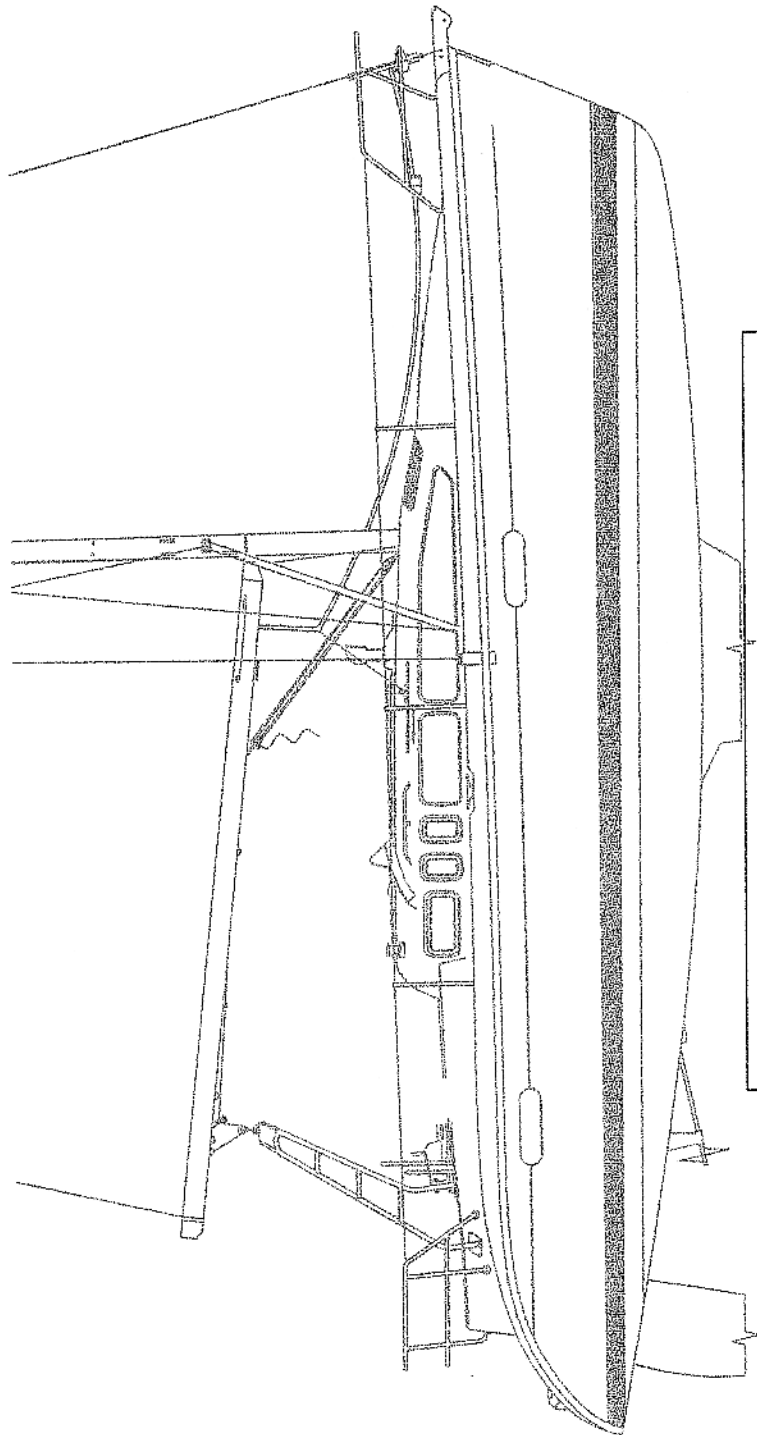
8. If you have the standard rig you need to attach the struts at this time. Attach the lower end of the strut to the smaller hole in the chainplate. Adjust the length by turning the ball joint bearing in the upper end of the strut until the holes in the pin can be attached. It is normal to have some play between the strut and the chainplate and strut bracket

9. The final test is to go sailing in 10-15 knots of wind. If when sailing upwind, the shrouds on the leeward side are slack then tighten them to remove about half the slack keeping note of the number of turns. Then tack and do the same to the other side. Do this until you are happy with the tension and the leeward side does not get loose when the boat is heeled. Now sight up the mast to be sure it is still relatively straight from side to side. If it is not then adjust to appropriate rigging to correct it. For example: if the mast is straight until the upper spreader and then hooks to the windward side then you will have to revisit steps 6 and 7 above. Remember to always tighten the leeward shroud, tack and tighten the new leeward shroud the same amount. This prevents damage to the turnbuckles and is also much easier to do. Keep in mind it is also possible to have something too tight such as a diagonal shroud.

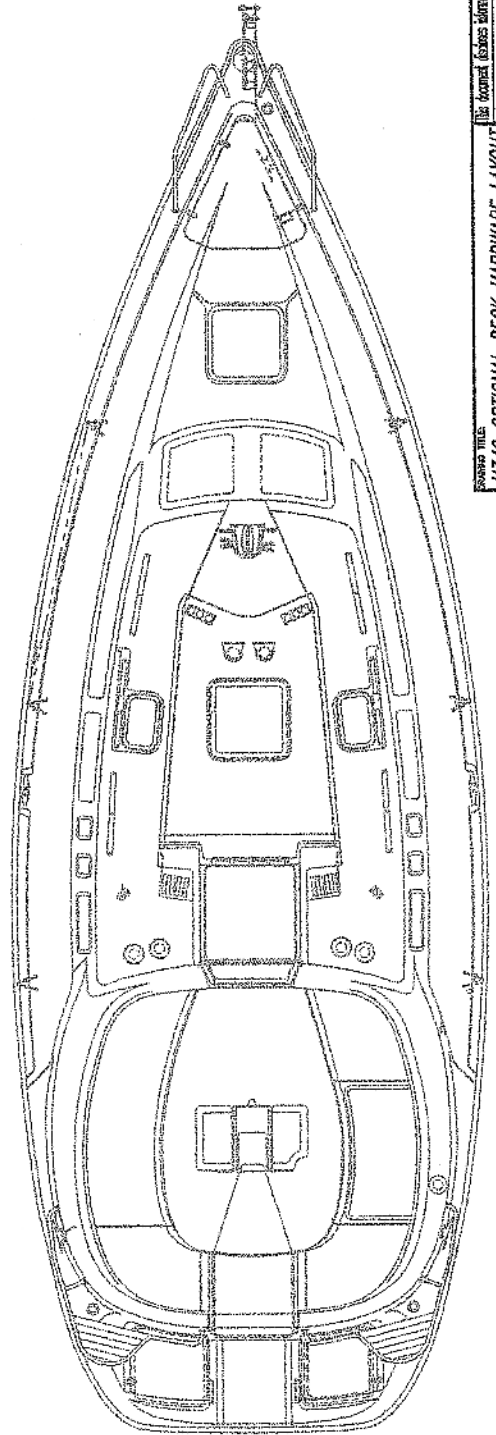
10. At this point you should have adequate headstay tension. The sails are built for about 10" [250mm] of headstay sag, the bend in the standard mast should be about 4" [100mm] and 1" [25mm] in the furling mast and it should be nearly straight from side to side when sailing upwind. If any of these are not true then revisit the appropriate step above to correct it. If the sag in the headstay is too much then adding tension to the verticals will fix it.

11. Once the rig is tuned you should make sure to add the cotter pins to all the rigging bending back the ends and taping them to prevent snagged lines, sails and fingers.

Remember that rigging, like everything else, can age. As it gets older it may need to be replaced. The frequency for which this becomes necessary depends on the climate and conditions in which the boat is sailed. For example: if you sail in the Caribbean it should be replaced every 2-3 years compared to every 10 for the great lakes. You should consult a professional rigger for advice.



SEE PAGES 38 THRU 40 FOR THE OPTIONAL DECK HARDWARE



HUNTER
 The fastest fastest selection for each HUNTER YACHT CLUB, the proprietary right

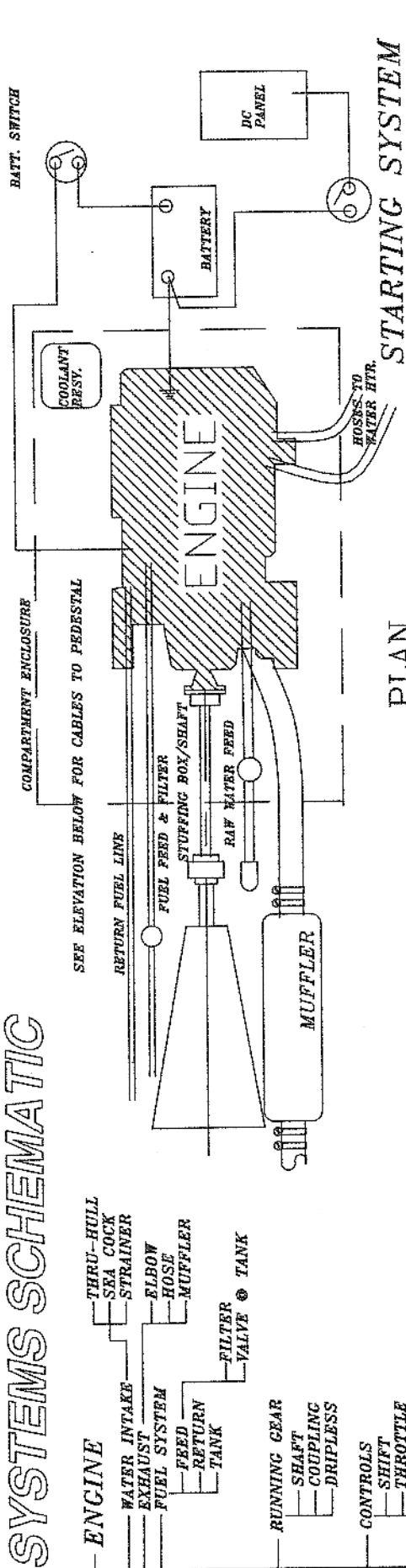
PROJECT TITLE H340 OPTIONAL DECK HARDWARE LAYOUT	
DRAWING NO. 340B054	DESIGN NO. NONE
DATE 10/3/99	DEPT. ENGINEERING DEPT.

ENGINE OPERATING INSTRUCTIONS:

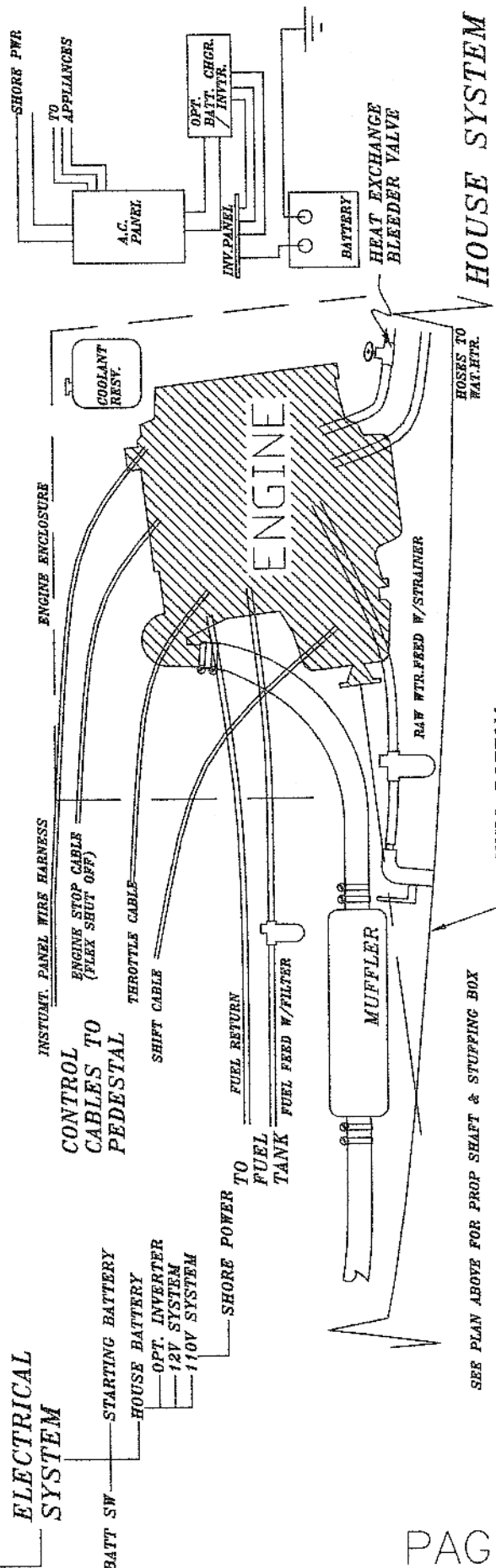
- ① FILL DIESEL TANK WITH DIESEL FUEL
- ② CHECK ENGINE OIL LEVEL (SEE YANMAR MANUAL)
- ③ OPEN ENGINE RAW WATER PICKUP SEACOCK (SEE PAGE 60A)
- ④ TURN ON "START BATTERY SELECTOR SWITCH" (LOCATED INSIDE THE STBD GULLWING LOCKER)
- ⑤ ENSURE THE ENGINE ON/OFF PLUNGER (LOCATED UNDER THE HELMSMAN SEAT) IS PUSHED COMPLETELY IN. (REMEMBER PUSHED IN IS ON, PULLED OUT IS OFF).
- ⑥ TURN KEY TO START POSITION, RELEASE WHEN ENGINE STARTS
NOTE" IF ENGINE APPEARS TO HAVE TROUBLE STARTING, SEE YANMAR MANUAL
- ⑦ TO SHUT ENGINE DOWN: PUSH THE BLACK PLUNGER KNOB (LOCATED BELOW THE HELMSMAN SEAT) OUT UNTIL ENGINE STOPS RUNNING, THEN TURN KEY TO OFF POSITION.

WARNING: DO NOT LEAVE AFT HATCHES/ PORTS OPEN WHILE ENGINE IS RUNNING. THERE EXISTS A POSSIBILITY OF EXHAUST POISONING, OR EVEN DEATH.

SYSTEMS SCHEMATIC



ELECTRICAL SYSTEM



NOTE: THIS DWG. IS SCHEMATIC FORM SEE SPECIFIC SYSTEM DECS. FOR BATTERIES/SWITCHES/CHARGER ETC. LOCATIONS AND WIRE RUNS.

REVISED THIS DATE: 10/6/99

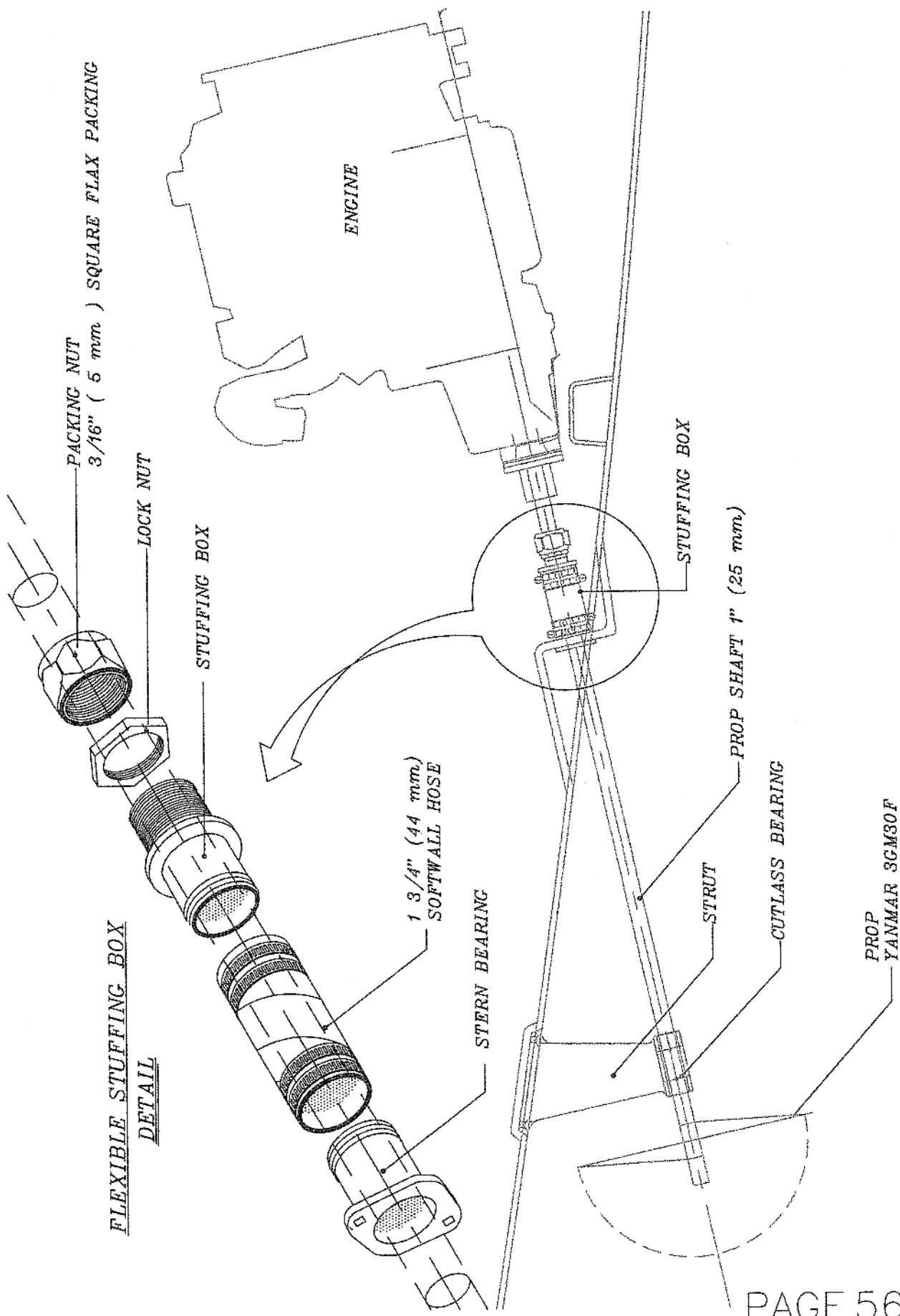
H340 ENGINE COMPARTMENT LAYOUT

REVISION NO. NONE

ENGINEERING DEPT. DATE: 10/6/99

HUNTER

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FLEXIBLE STUFFING BOX
DETAIL

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 H340 STUFFING BOX DETAIL
 DRAWING NO. 34-08056
 REVISION NO. NONE
 DATE 10/5/99
 DRAWN BY ENGINEERING DEPT.

FRESH WATER SYSTEM OPERATION:

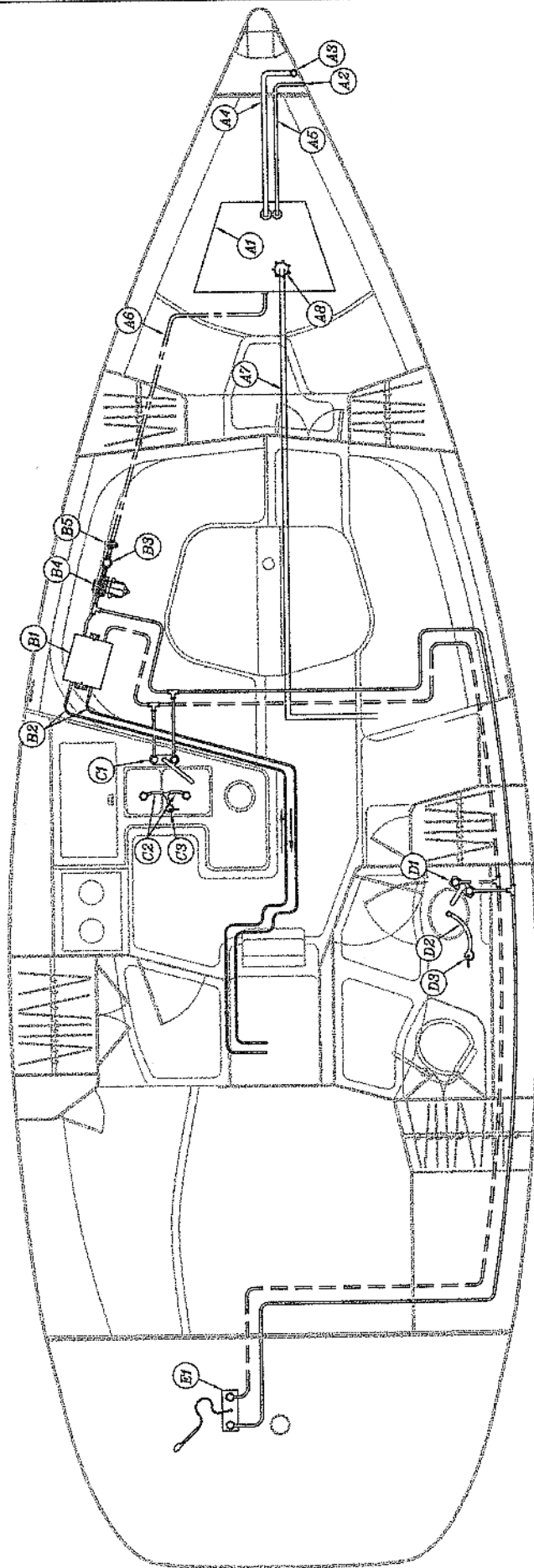
- ① FILL TANK WITH FRESH WATER (SEE PAGE 60B FOR FILL LOCATIONS)
- ② OPEN MANIFOLD VALVE (SEE PAGE 57B-1 FOR MANIFOLD LOCATION)
- ③ TURN BATTERY SELECTOR SWITCH TO THE (1, 2 OR BOTH) POSITION
"FLIP" MAIN PANEL BREAKERS @ BATTERY SWITCH TO THE "ON" POSITION
(PANEL LOCATED IN THE STARBOARD AFT CULLWING LOCKER)
- ④ TURN ON "D.C. MAIN" BREAKER ON MAIN BREAKER PANEL
- ⑤ TURN ON "WATER PRESSURE" BREAKER ON MAIN BREAKER PANEL
- ⑥ "HOT WATER" IS ATTAINABLE BASICALLY IN TWO WAYS...
 - Ⓐ BY HEATING THE WATER THRU THE ENGINE HEAT EXCHANGER UNIT
 - Ⓑ BY SUPPLYING 110V.A.C. BY "DOCKSIDE SHORE POWER".
- ⑦ TO HEAT BY "ENGINE" SEE PAGE 55 FOR ENGINE OPERATING INSTRUCTIONS.

NOTE: WHEN COOLANT IS INSTALLED, BLEED AIR FROM HEAT EXCHANGER LINES TO WATER HEATER. CRANK ENGINE, OPEN BLEEDER VALVE (SEE PAGE 55B) UNTIL AIR IS GONE FROM LINES

- ⑧ TO HEAT BY "SHORE POWER"
 - Ⓐ HOOK UP SHORE POWER CABLE/S
 - Ⓑ TURN ON A.C. MAIN BREAKER ON MAIN BREAKER PANEL
 - Ⓒ TURN ON "WATER HEATER" BREAKER ON MAIN BREAKER PANEL

NOTE: AS WITH ALL WATER HEATERS, BE SURE WATER TANK IS FULL BEFORE APPLYING POWER TO UNIT, TO AVOID DAMAGE TO HEATING ELEMENT

HOT WATER QUEST LINES
 COLD WATER QUEST LINES
 FRESH WATER FEED LINES TO MANIFOLD



SEE FOLLOWING PAGE FOR THE WATER SYSTEM DESCRIPTIONS.

HUNTER
 H340 FRESH WATER SYSTEM LAYOUT
 DRAWING NO. 408057B-1
 REVISION NO. NONE
 DATE 10/5/99
 DESIGNED BY: ENGINEERING DEPT.

FRESH WATER SYSTEM LAYOUT LIST

A1 FWD WATER TANK (75 GALLONS/284 LITERS)
A2 TANK FILL VENT LOCATION (3/4" / 19.1mm HULL FITTING)
A3 TANK FILL LOCATION (1 1/2" / 38.1mm DECK FITTING)
A4 FILL HOSE RUN (1 1/2" / 38.1mm SHEILDVAC)
A5 VENT HOSE RUN (3/4" / 19.1mm)
A6 FWD WATER TANK FEED LINE TO WATER PUMP (1 1/2" / 38.1mm)
A7 TANK SENDING UNIT/ POWER LEADS
A8 TANK SENDING UNIT LOCATION

B1 WATER HEATER (6 GALLONS/23 LITERS)
B2 WATER HEATER HEAT EXCHANGER LINES TO ENGINE
B3 IN LINE WATER FILTER (LOCATED UNDER FWD STBD SETTEE)
B4 12 VOLT D.C. WATER PUMP
B5 WATER TANK ON/OFF VALVE

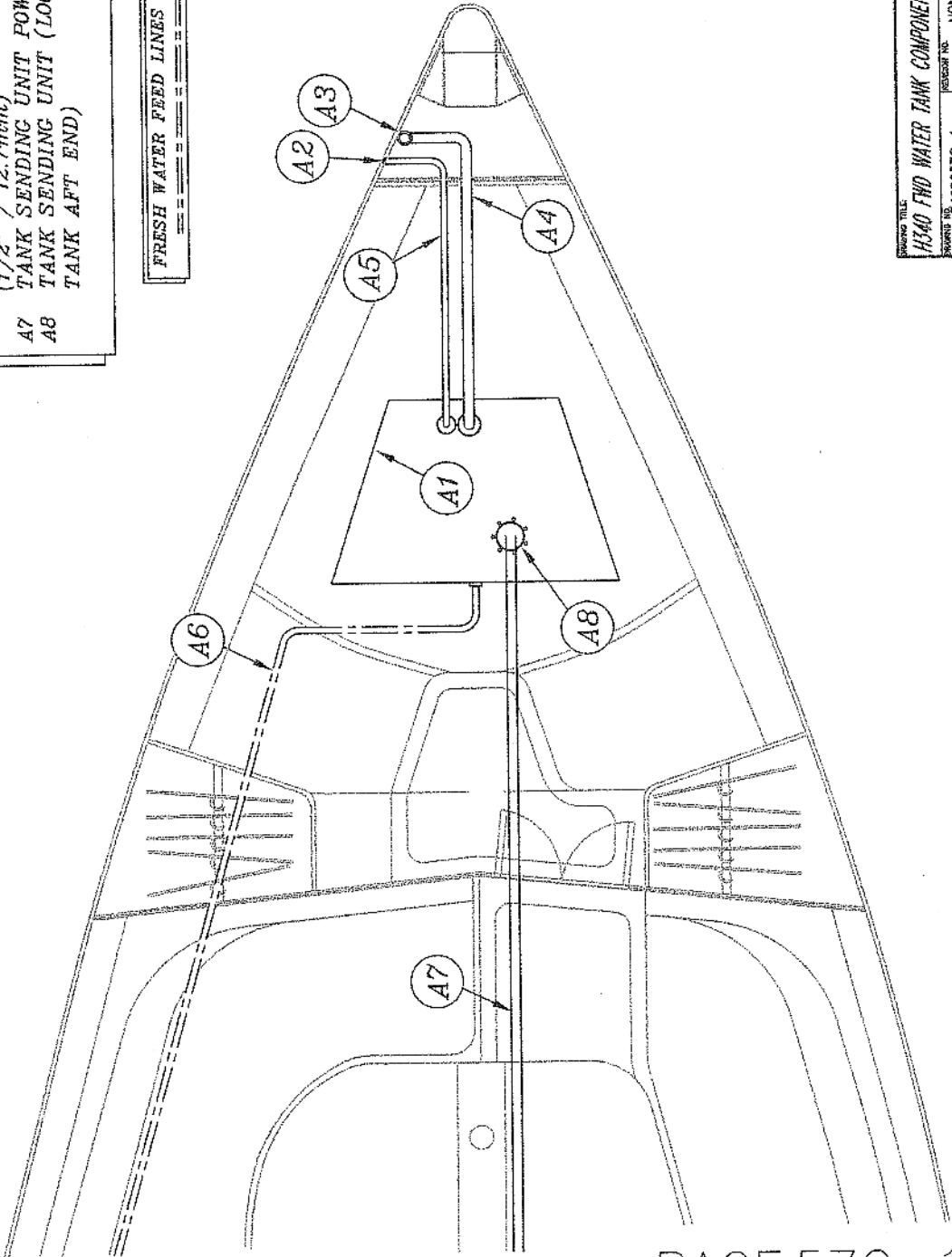
C1 GALLEY FAUCET
C2 GALLEY SINK DRAIN HOSE RUN (1 1/4" / 31.8mm SHEILDVAC)
C3 GALLEY SINK DRAIN SEACOCK (1 1/4" / 31.8mm)

D1 HEAD VANITY/ SHOWER FAUCET (SEE PG 59B FOR MORE DETAILS)
D2 HEAD VANITY SINK DRAIN HOSE RUN (1" / 25.4mm)
D3 HEAD VANITY SINK DRAIN SEACOCK (1" / 25.4mm)

E1 TRANSOM SHOWER WATER SYSTEM COMPONENTS

- A1 FWD WATER TANK (LOCATED UNDER FWD BERTH)
- A2 75 GALLONS / 284 LITERS
- A3 TANK FILL VENT THRU HULL (3/4" / 19.1mm)
- A4 TANK FILL DECK PLATE (1 1/2" / 38.1mm)
- A5 TANK FILL HOSE RUN (1 1/2" / 38.1mm)
- A6 TANK VENT HOSE RUN (3/4" / 19.1 mm)
- A7 TANK FEED LINE TO WATER FILTER AND PUMP (1/2" / 12.7mm)
- A8 TANK SENDING UNIT POWER / GAUGE LEADS

FRESH WATER FEED LINES TO ON / OFF VALVE



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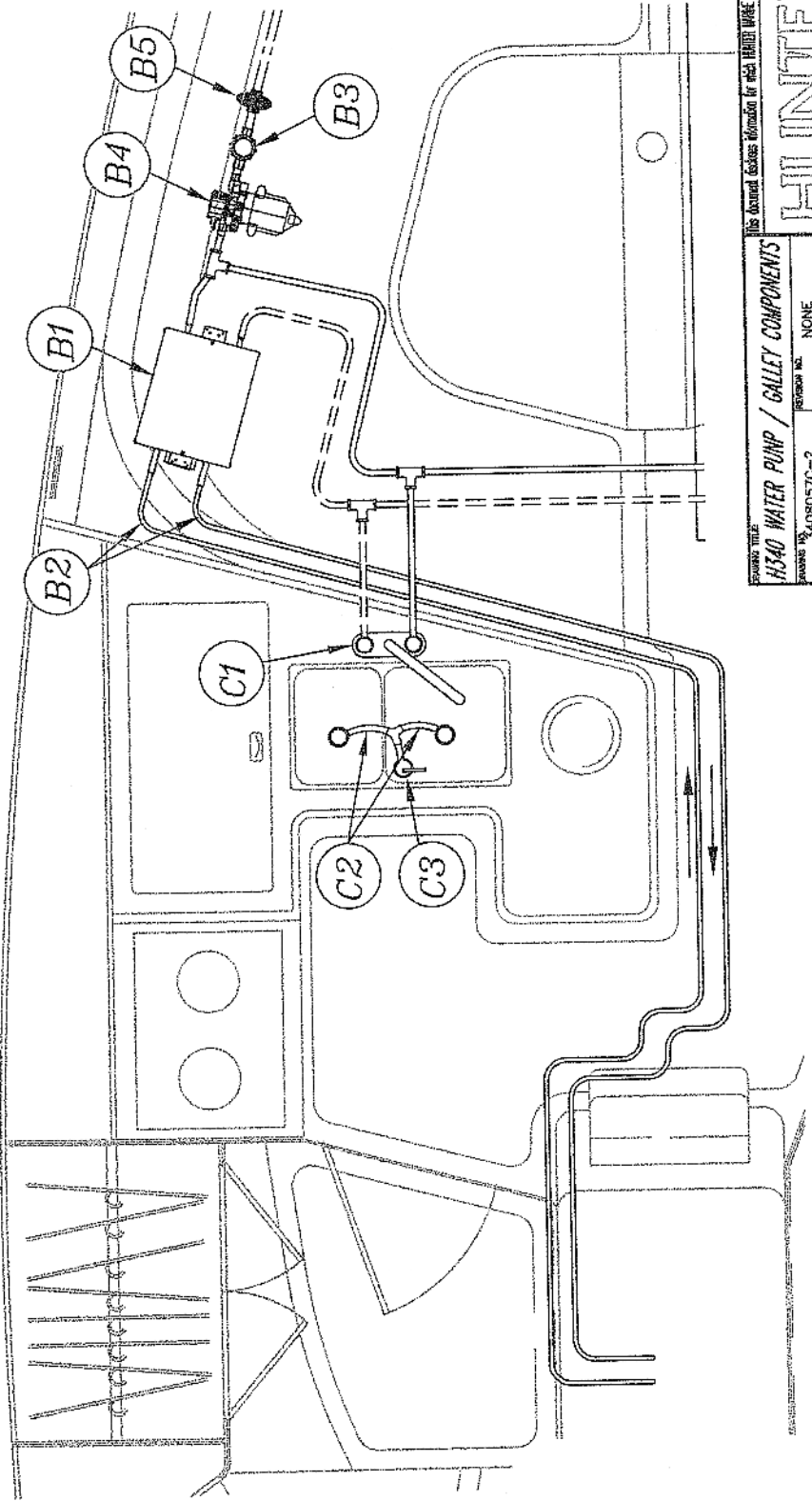
13340 FWD WATER TANK COMPONENT DETAIL	
DRAWING NO.	3-408057C-1
REVISION NO.	NONE
DRAWN BY	ENGINEERING DEPT.
DATE	10/8/99

- B1 SYSTEM WATER HEATER (6 GALLONS / 23 LITERS)
- B2 HEAT EXCHANGER LINE RUNS TO / FROM ENGINE
- B3 IN LINE WATER FILTER (ACCESS UNDER AFT PORT SETTEE)
- B4 12 VOLT D.C. WATER PUMP (PRESSURIZES SYSTEM)
- B5 TANK (ON/OFF) VALVE LOCATED @ AFT END OF FWD PORT SETTEE.
- C1 GALLEY SINK FAUCET
- C2 GALLEY FAUCET SINK DRAIN HOSE RUN TO SEACOCK (1 1/2" / 38.1mm) SHEILDVAC
- C3 GALLEY DRAIN DISCHARGE SEACOCK (1 1/2" / 38.1mm)

== == == == ==
 HOT WATER QUEST LINES (1/2" / 12.7mm)
 == == == == ==

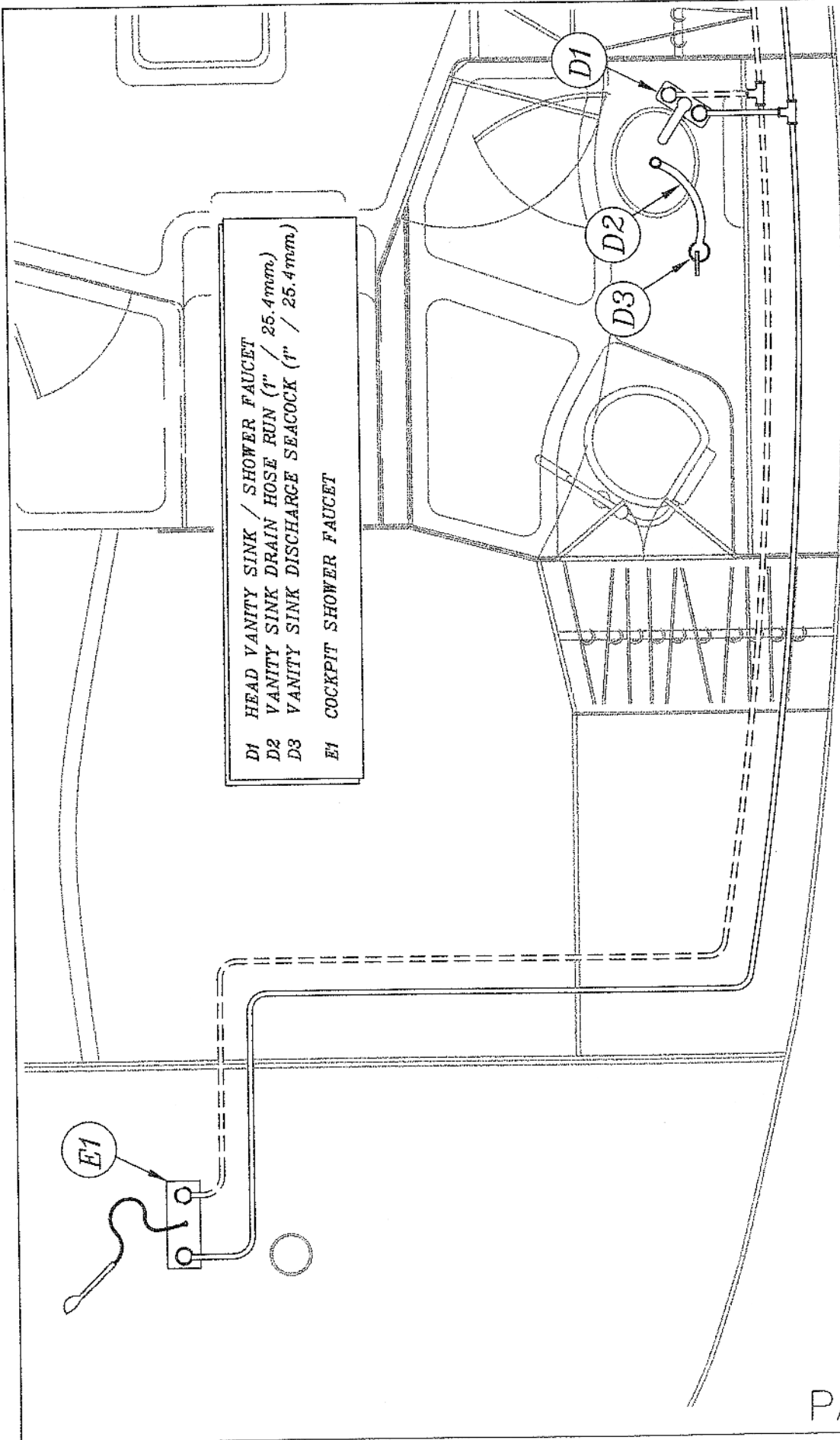
== == == == ==
 COLD WATER QUEST LINES (1/2" / 12.7mm)
 == == == == ==

== == == == ==
 FRESH WATER FEED LINE TO ON / OFF VALVE
 == == == == ==



DRAWING TITLE: **H340 WATER PUMP / GALLEY COMPONENTS**
 DRAWING NO: 4080570-2
 REVISION NO: NONE
 DRAWN BY: [blank]
 DATE: 10/8/98
 ENGINEERING DEPT.

HUNTER



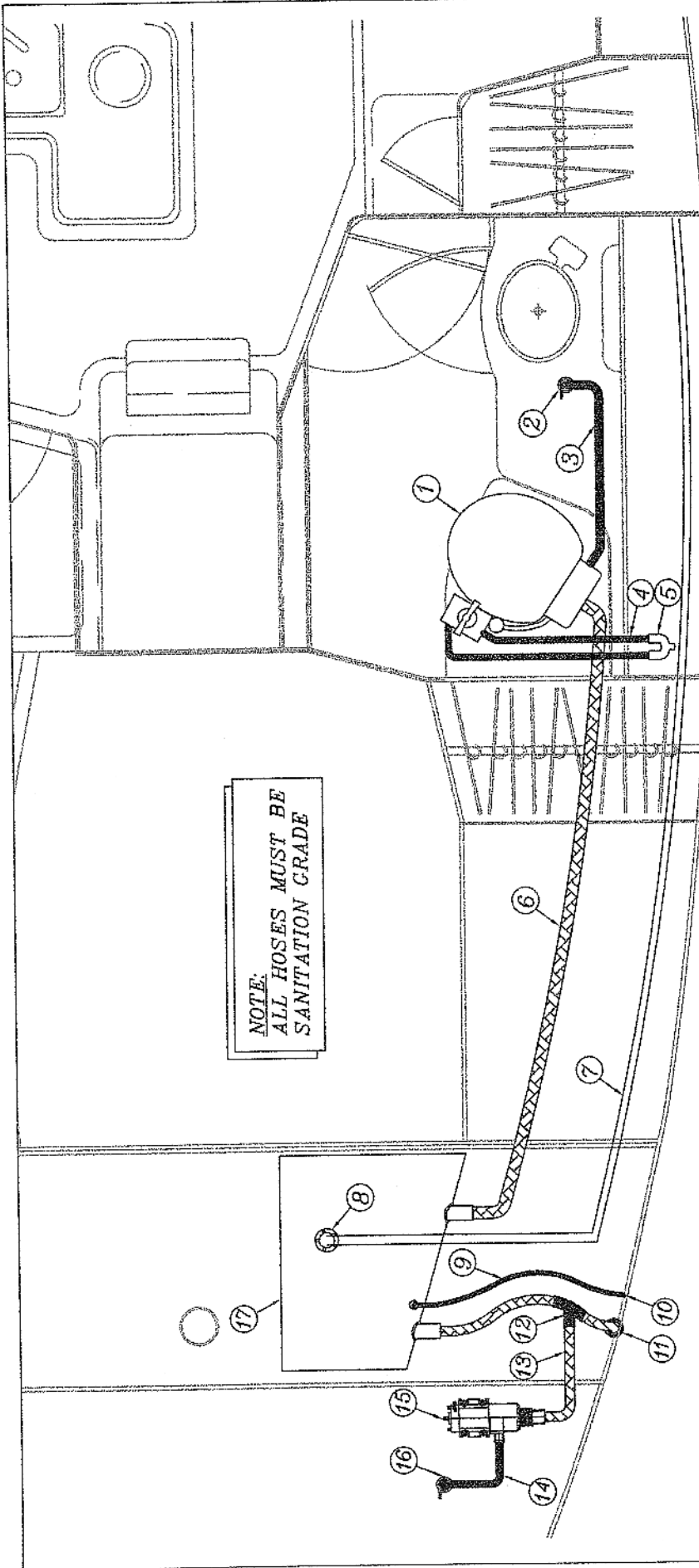
- D1 HEAD VANITY SINK / SHOWER FAUCET
- D2 VANITY SINK DRAIN HOSE RUN (1" / 25.4mm.)
- D3 VANITY SINK DISCHARGE SEACOCK (1" / 25.4mm.)
- E1 COCKPIT SHOWER FAUCET

HOT WATER QUEST LINES (1/2" / 12.7mm.)
 COLD WATER QUEST LINES (1/2" / 12.7mm.)

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HUNTER

PROJECT TITLE: /340 HEAD / TRANSON SHOWER COMPONENT DETAILS	
DESIGN NO: 3-40807C-3	REVISION NO: NONE
DRAWN BY: ENGINEERING DEPT.	DATE: 10/8/99

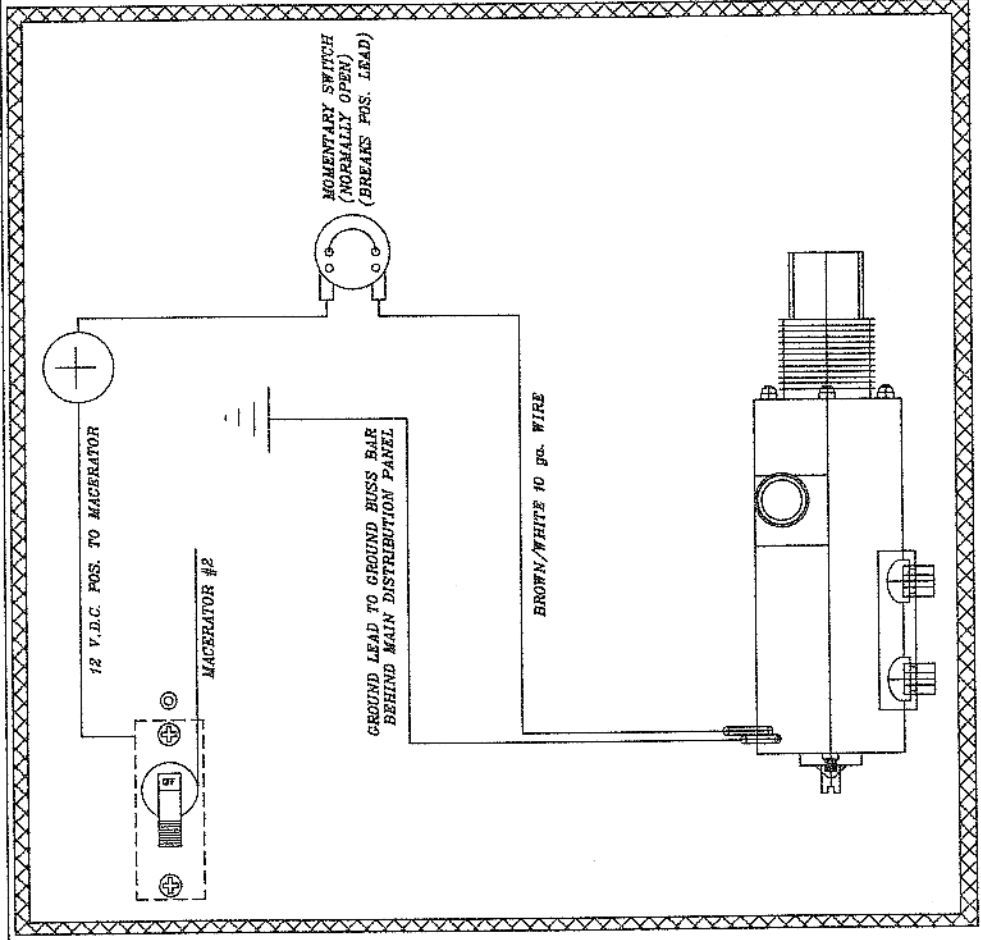


NOTE:
ALL HOSES MUST BE
SANITATION GRADE

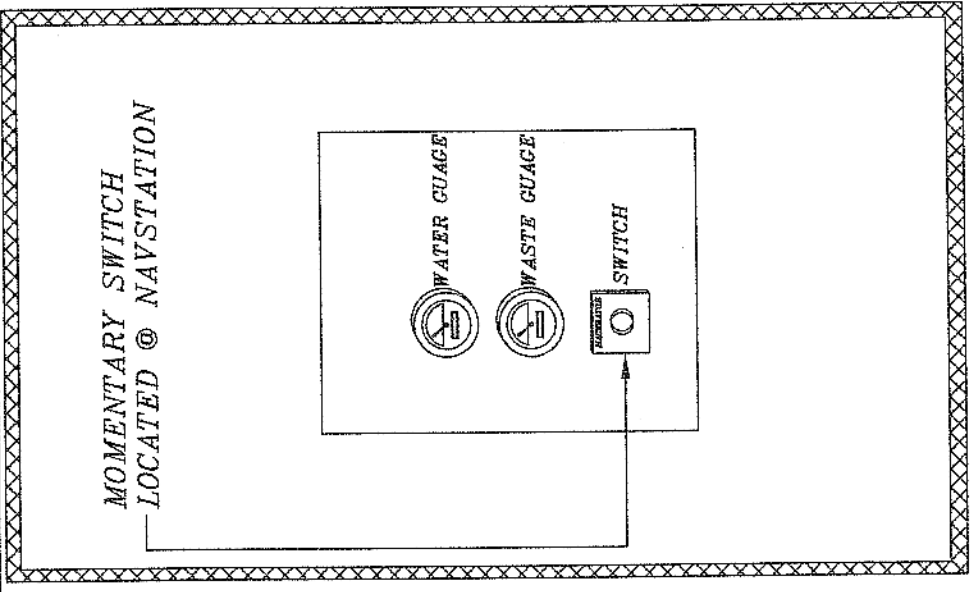
1. HEAD
2. HEAD RAW WATER INTAKE VALVE (3/4" / 19.1mm)
3. RAW WATER FEED LINE TO HEAD (3/4" / 19.1mm)
4. RAW WATER LINE TO VENTED LOOP (3/4" / 19.1mm)
5. VENTED LOOP (3/4" / 19.1mm)
6. WASTE HOSE INTO TANK FROM HEAD (1 1/2" / 38.1mm)
7. MACERATOR POWER LEADS TO MOMENTARY SWITCH @ PANEL
8. HOLDING TANK SENDING UNIT
9. WASTE TANK VENT HOSE (3/4" / 19.1mm)
10. WASTE TANK VENT HULL FITTING (3/4" 19.1mm)
11. WASTE TANK PUMP OUT DECK PLATE (1 1/2" / 38.1mm)
12. PUMP OUT / MACERATOR HOSE TEE
13. WASTE HOSE FROM TANK TO MACERATOR (1 1/2" / 38.1mm)
14. MACERATOR DISCHARGE HOSE TO SEACOCK (1" / 24.5mm)
15. 12 V.D.C. MACERATOR PUMP
16. MACERATOR DISCHARGE SEACOCK (1" / 25.4mm)
17. WASTE HOLDING TANK (80 GALLONS / 114 LITERS)

HUNTERA
 H340 STD. WASTE SYSTEM LAYOUT
 DRAWING NO. 340B058A
 REVISION NO. NONE
 SCALE 3/4" = 1'-0"
 DATE 10/12/99
 ENGINEERING DEPT.
 THE HUNTERA BOATWORKS DIVISION OF HUNTERA MARINE CORP. HAS PROPRIETARY RIGHTS

THE MACERATOR MOMENTARY SWITCH IS PROVIDED TO PROHIBIT THE "DRY RUNNING" OF THE MACERATOR. TO OPERATE THE MACERATOR, TURN THE MACERATOR BREAKER TO THE "ON" POSITION. WHILE EITHER WATCHING THE WASTE TANK LEVEL INDICATOR, OR LISTENING TO THE PITCH OF THE PUMP, PUSH THE MOMENTARY SWITCH IN. THIS WILL ACTIVATE THE MACERATOR. ONCE THE TANK LEVEL INDICATOR REACHES "EMPTY", OR THE PITCH CHANGES NOTICEABLY, RELEASE THE MOMENTARY SWITCH AND TURN THE BREAKER TO THE "OFF" POSITION. (NOTE: OCCASIONALLY THE TANK SENDING UNIT BECOMES STUCK, AND DOES NOT GIVE AN ACCURATE READING, THEREFORE IT IS MORE EFFECTIVE AND SAFER FOR THE OPERATOR USES THE "LISTENING" METHOD TO DETERMINE IF THE TANK HAS BEEN EMPTIED.)



MACERATOR SCHEMATIC TYPICAL



MOMENTARY SWITCH LOCATION

POWER TITLE: H540 MACERATOR WIRING SCHEMATIC

DESIGNED BY: 3408058B

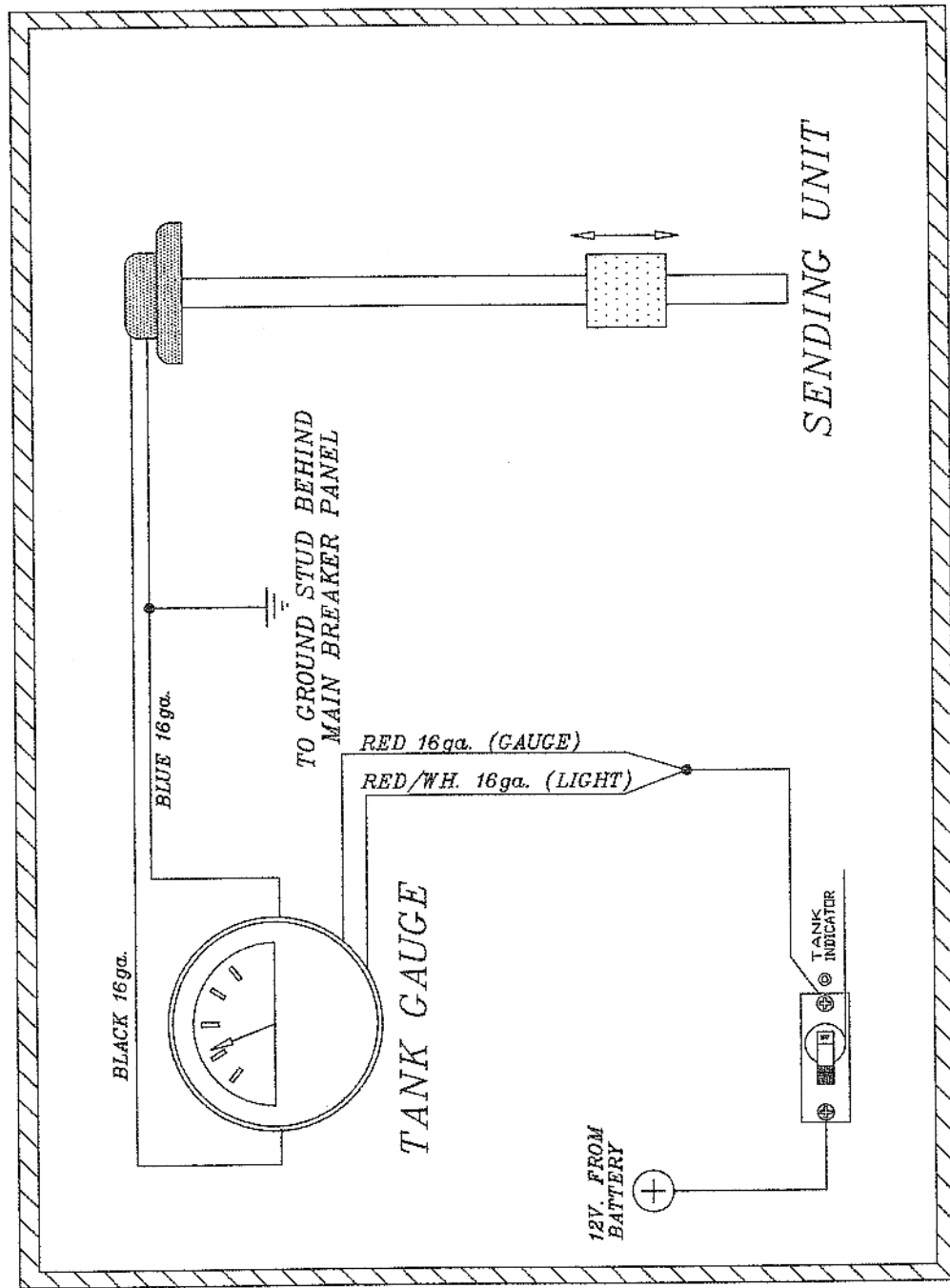
PROJECT NO.: NONE

DRAWN BY: ENGINEERING DEPT

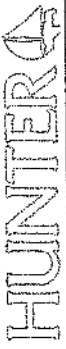
DATE: 10/12/99

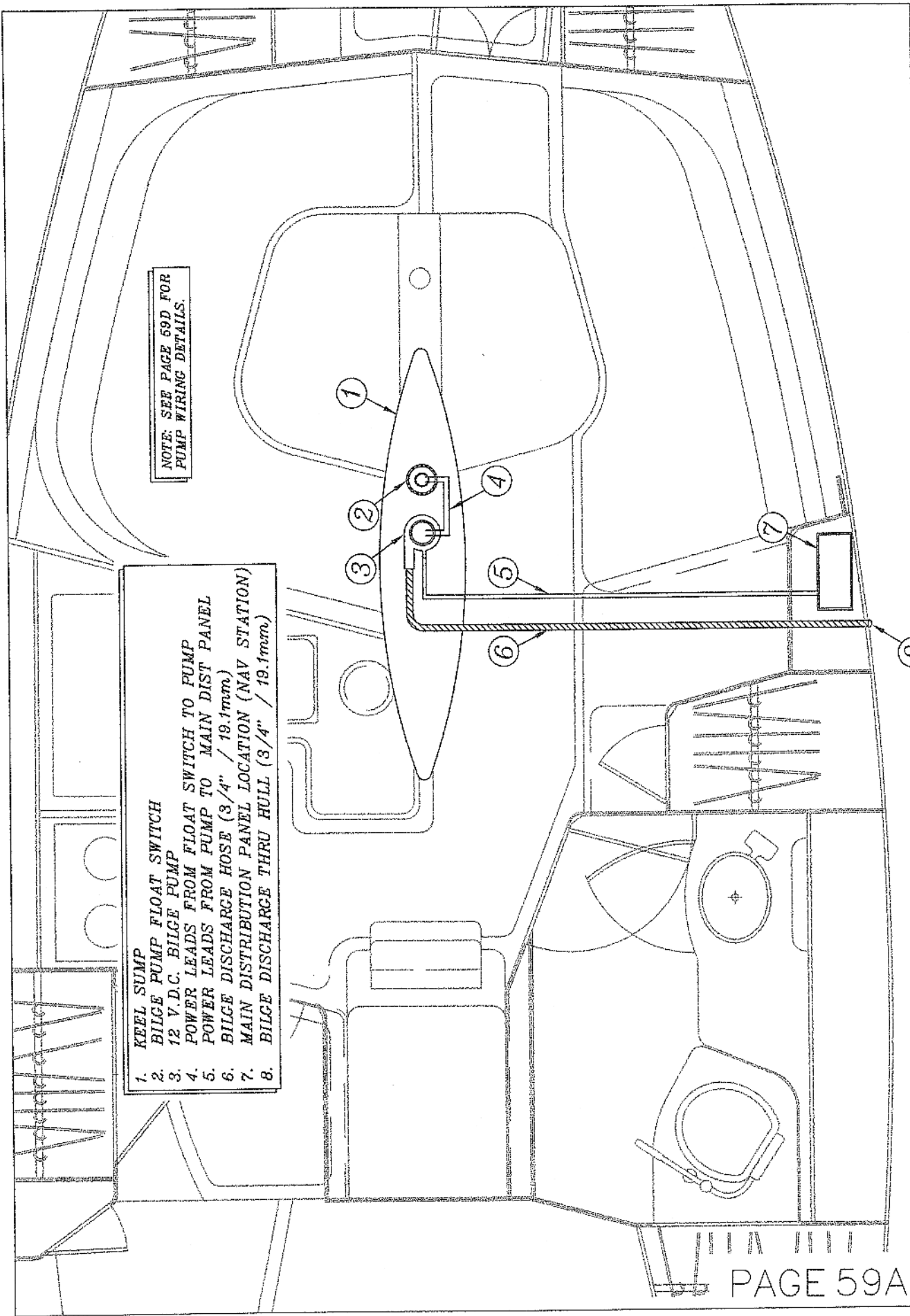
The lowest grades obtained for which HUNTER WARE CORP. has prepared plans.

HUNTER



NOTE:
 ALWAYS KEEP WASTE DISCHARGE THRU HULL BALL
 VALVE CLOSED WHEN SYSTEM IS NOT IN USE.





NOTE: SEE PAGE 69D FOR PUMP WIRING DETAILS.

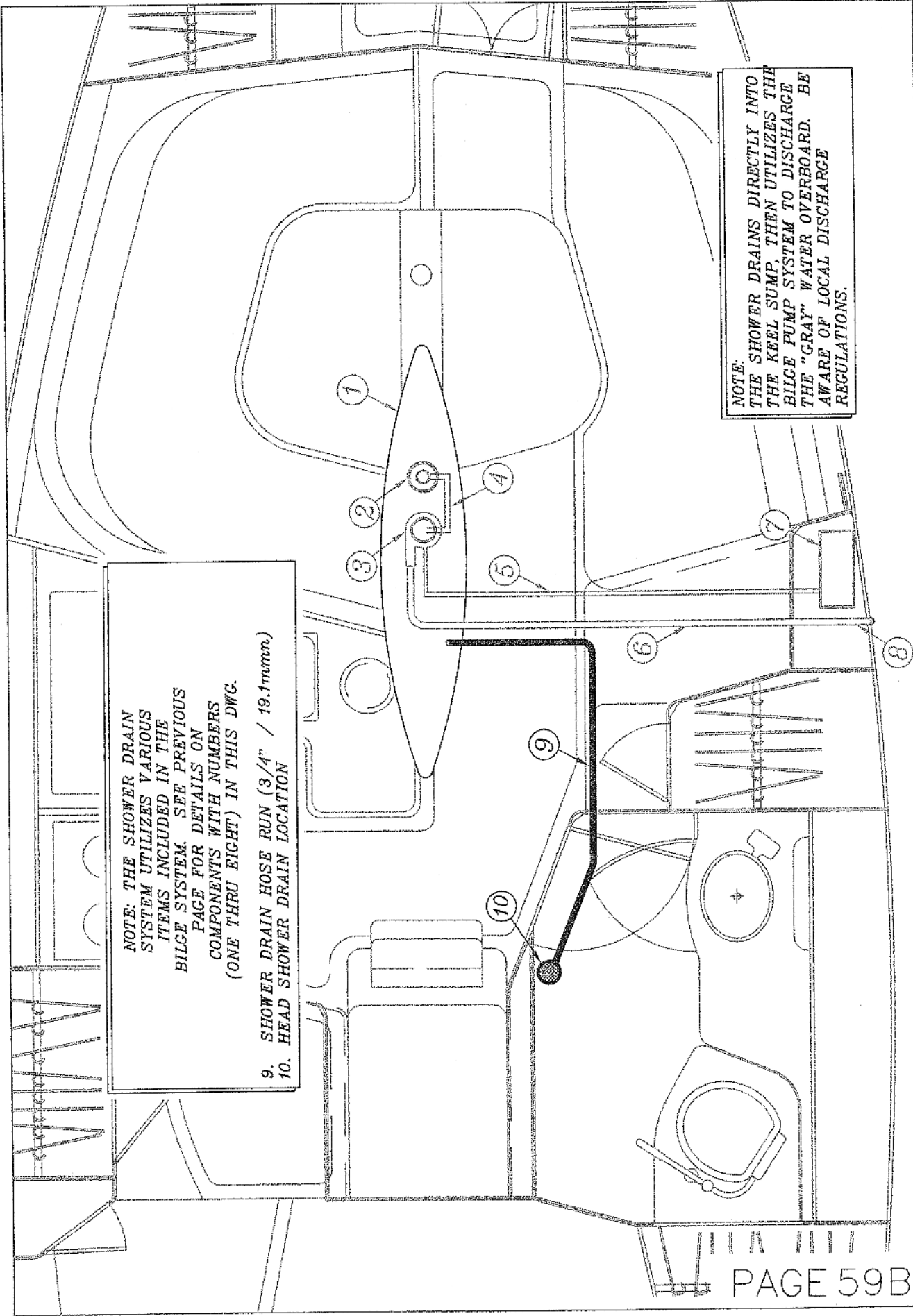
- 1. KEEL SUMP
- 2. BILGE PUMP FLOAT SWITCH
- 3. 12 V.D.C. BILGE PUMP
- 4. POWER LEADS FROM FLOAT SWITCH TO PUMP
- 5. POWER LEADS FROM PUMP TO MAIN DIST PANEL
- 6. BILGE DISCHARGE HOSE (3/4" / 19.1mm)
- 7. MAIN DISTRIBUTION PANEL LOCATION (NAV STATION)
- 8. BILGE DISCHARGE THRU HULL (3/4" / 19.1mm)

THIS DOCUMENT CONTAINS INFORMATION FOR WHICH HUNTERA MARINE CORP. HAS PROPRIETARY RIGHTS.

H340 MAIN BILGE PUMP LAYOUT

DRAWING NO. 3408059A	DESIGNER NO. NONE
ENGINEERING DEPT.	DATE 10/13/99

HUNTERA



NOTE: THE SHOWER DRAIN SYSTEM UTILIZES VARIOUS ITEMS INCLUDED IN THE BILGE SYSTEM. SEE PREVIOUS PAGE FOR DETAILS ON COMPONENTS WITH NUMBERS (ONE THRU EIGHT) IN THIS DWG.

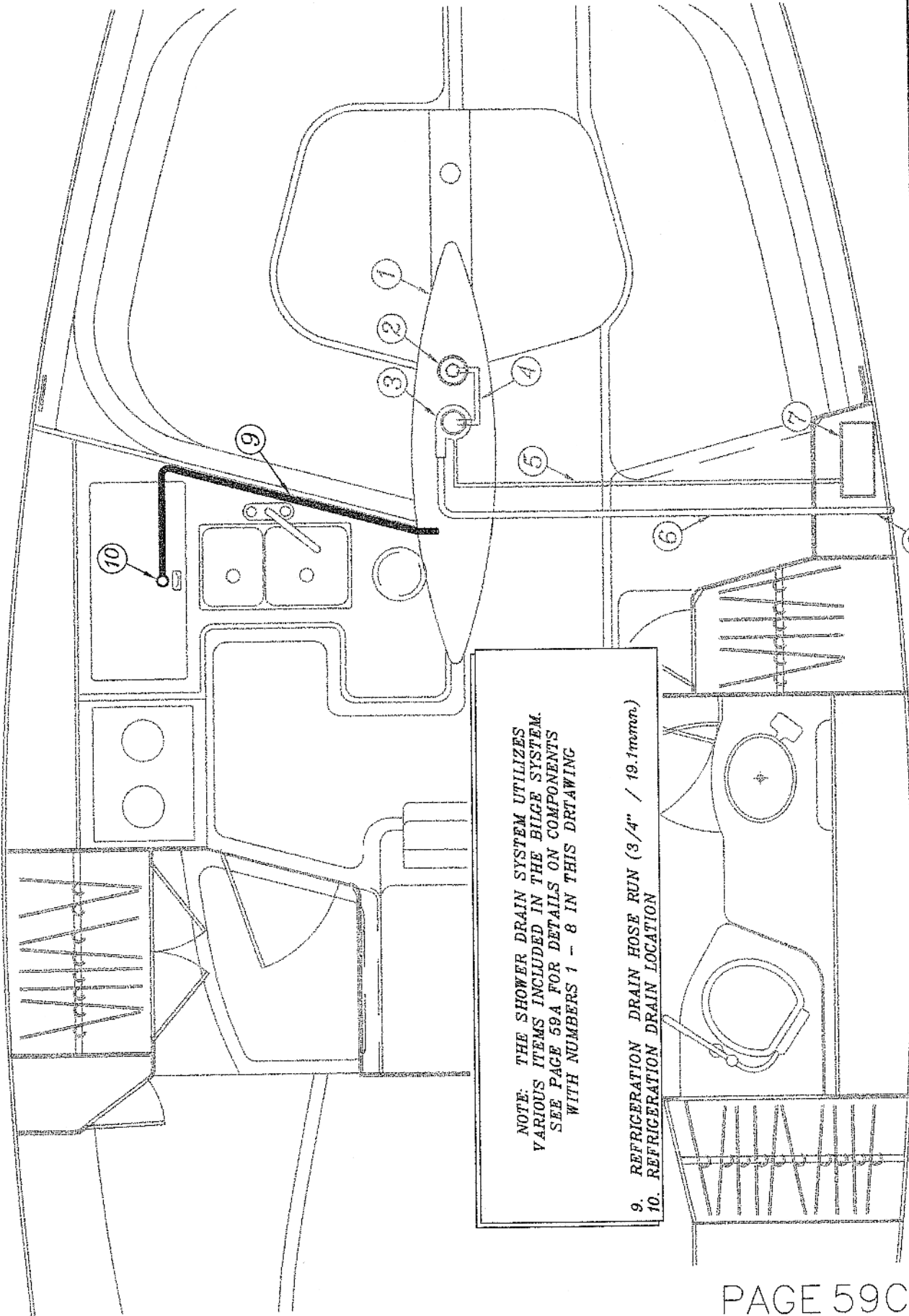
9. SHOWER DRAIN HOSE RUN (3/4" / 19.1mm)

10. HEAD SHOWER DRAIN LOCATION

NOTE: THE SHOWER DRAINS DIRECTLY INTO THE KEEL SUMP, THEN UTILIZES THE BILGE PUMP SYSTEM TO DISCHARGE THE "GRAY" WATER OVERBOARD. BE AWARE OF LOCAL DISCHARGE REGULATIONS.

OWNER TITLE: H340 SHOWER DRAIN LAYOUT
DESIGNER NO.: 3408059B
ENGINEERING DEPT.:
DATE: 10/13/99
REVISION NO.: NONE

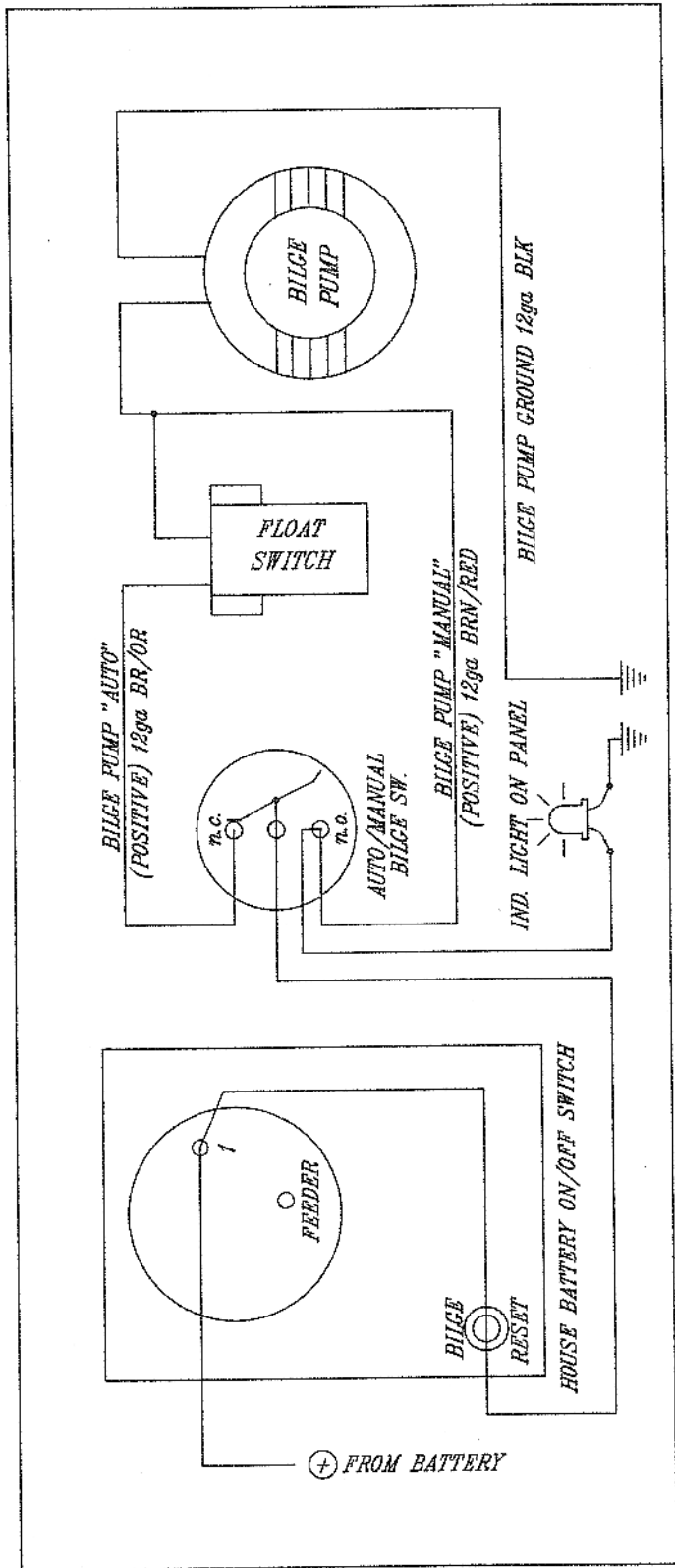
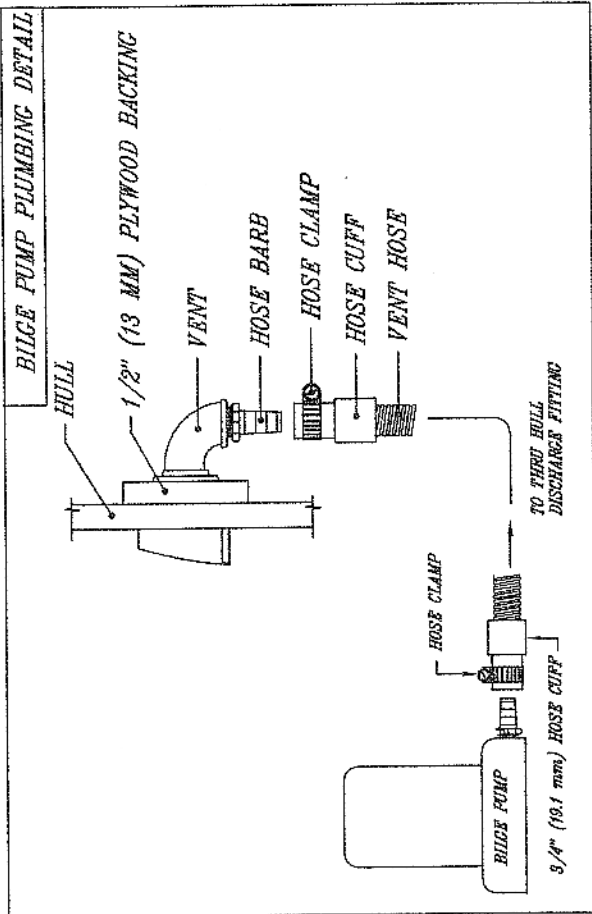
HUNTER



NOTE: THE SHOWER DRAIN SYSTEM UTILIZES VARIOUS ITEMS INCLUDED IN THE BILGE SYSTEM. SEE PAGE 59A FOR DETAILS ON COMPONENTS WITH NUMBERS 1 - 8 IN THIS DRAWING

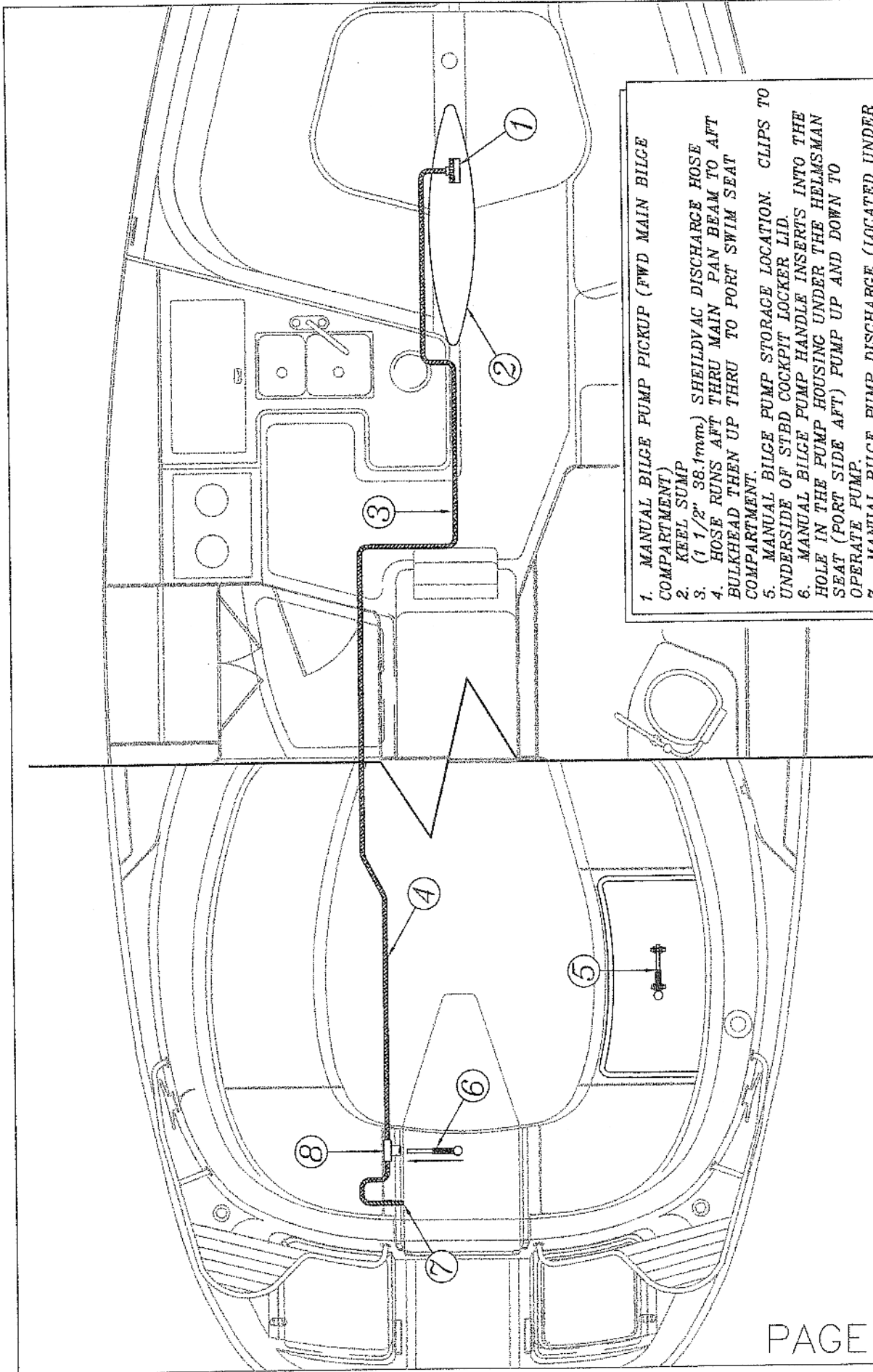
9. REFRIGERATION DRAIN HOSE RUN (3/4" / 19.1mm) (cont.)

10. REFRIGERATION DRAIN LOCATION



DRAWING TITLE: H340 BILGE PUMP WIRING DETAILS
 DRAWING NO.: 340805SD
 PERSONNEL: NONE
 DATE: 10/13/99
 ENGINEERING DEPT.:
 HUNTER

STANDARD BILGE PUMP WIRING

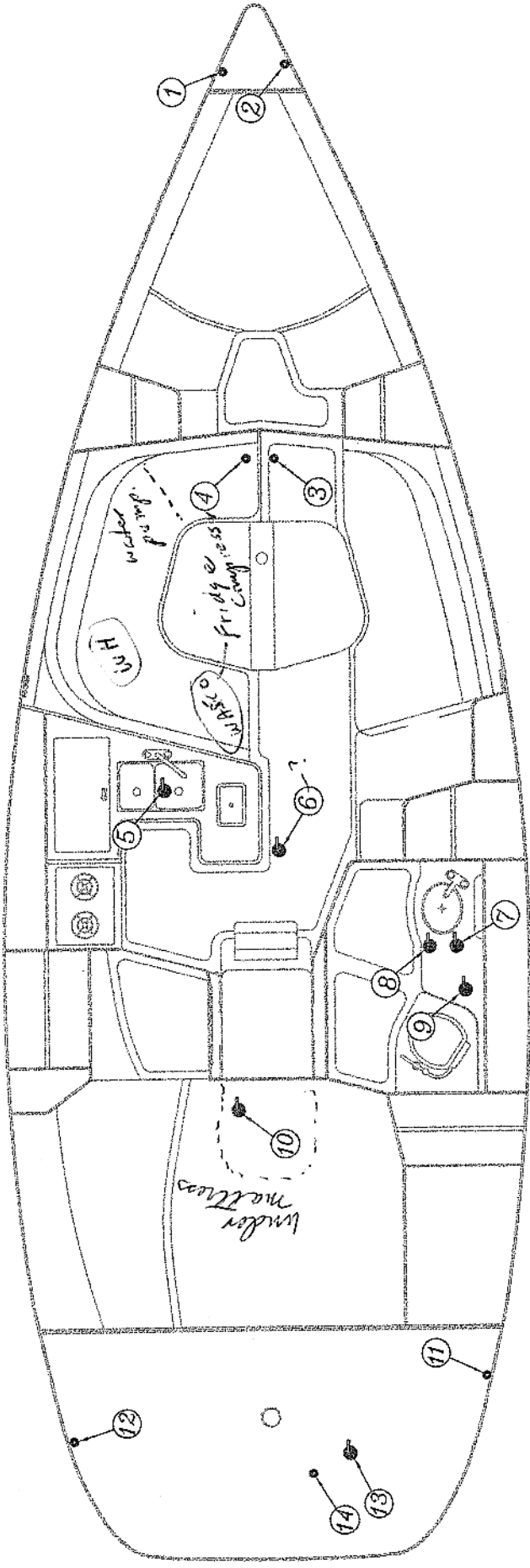


1. MANUAL BILGE PUMP PICKUP (FWD MAIN BILGE COMPARTMENT)
2. KEEL SUMP
3. (1 1/2" 38.1mm) SHEILDVAC DISCHARGE HOSE
4. HOSE RUNS AFT THRU MAIN PAN BEAM TO AFT BULKHEAD THEN UP THRU TO PORT SWIM SEAT COMPARTMENT.
5. MANUAL BILGE PUMP STORAGE LOCATION. CLIPS TO UNDERSIDE OF STBD COCKPIT LOCKER LID.
6. MANUAL BILGE PUMP HANDLE INSERTS INTO THE HOLE IN THE PUMP HOUSING UNDER THE HELMSMAN SEAT (PORT SIDE AFT) PUMP UP AND DOWN TO OPERATE PUMP.
7. MANUAL BILGE PUMP DISCHARGE (LOCATED UNDER AFT QUAD COVER)
8. MANUAL BILGE PUMP

HUNTER

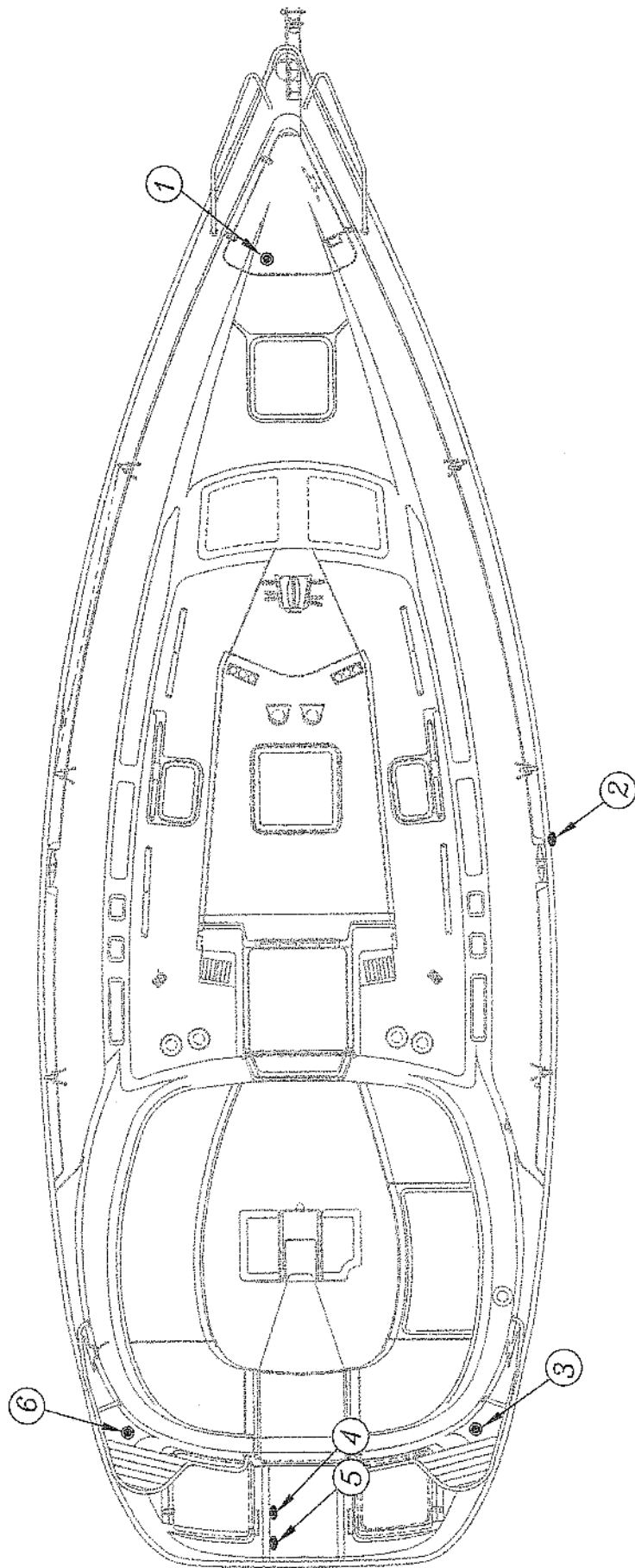
DRAWING TITLE	
H340 MANUAL BILGE PUMP LAYOUT	
DRAWING NO. 3-408058E	REVISION NO. NONE
DESIGNED BY	DATE 10/13/89
ENGINEERING DEPT.	

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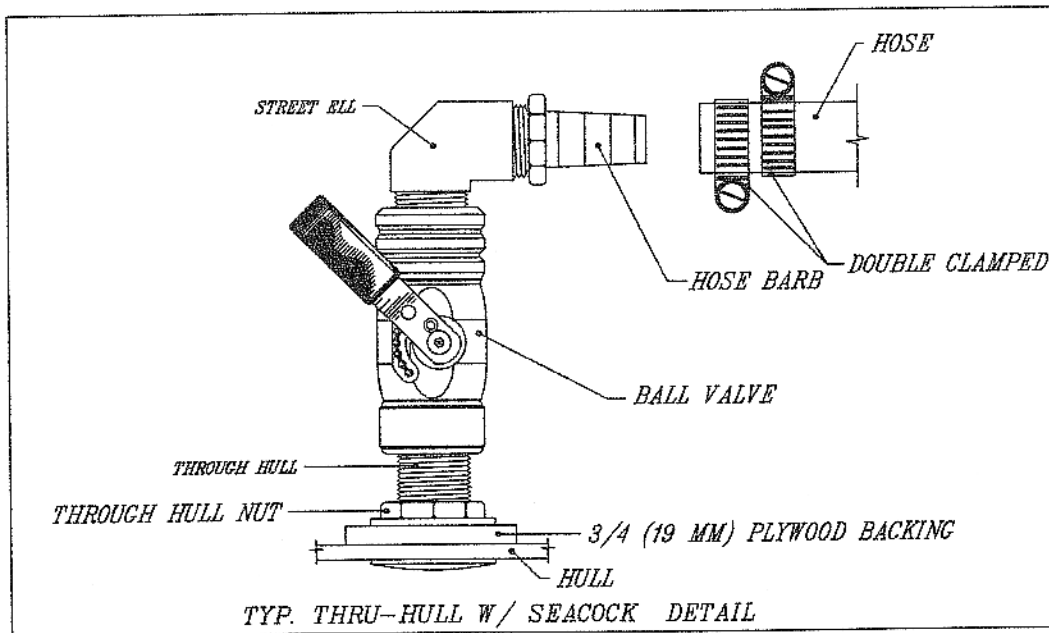
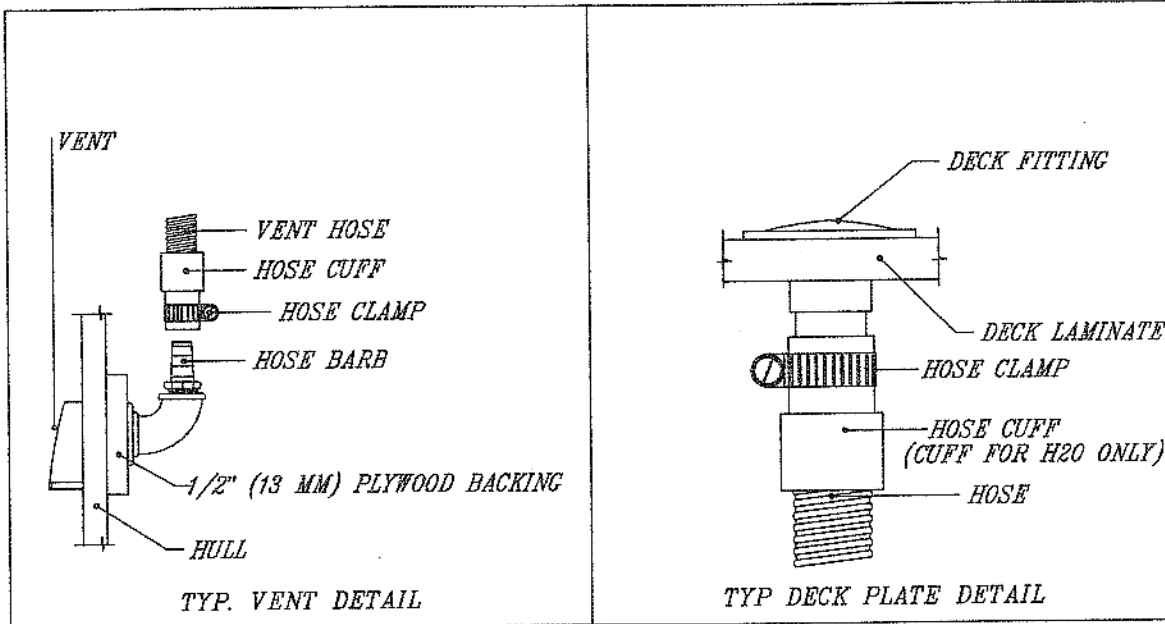
1. WATER TANK VENT HOSE (3/4" / 19.1mm)
2. ANCHOR LOCKER DRAIN (3/4" / 19.1mm)
3. DEPTH TRANSDUCER (UNDER CABIN SOLE)
4. KNOT METER TRANSDUCER (PT FWD SETTEE)
5. GALLEY DRAIN DISCHARGE SEACOCK (1 1/4" / 32mm)
6. A.C. RAW WATER PICKUP SEACOCK (3/4" / 19.1mm)
7. A.C. RAW WATER DISCHARGE SEACOCK (1/2" / 12.7mm)
8. VANITY DRAIN DISCHARGE SEACOCK (1" / 25.4mm)
9. HEAD RAW WATER INTAKE SEACOCK (3/4" / 19.1mm)
10. ENGINE RAW WATER INTAKE SEACOCK (3/4" / 19.1mm)
11. WASTE TANK VENT HOSE (3/4" / 19.1mm)
12. FUEL TANK VENT (5/8" / 15.9mm)
13. MACERATOR DISCHARGE SEACOCK (1 1/2" 38.1mm)
14. ENGINE EXHAUST (2" / 50.8mm)

SEE PAGE 60C FOR
DETAILS ON TYPICAL
THRU HULL DECK FITTINGS

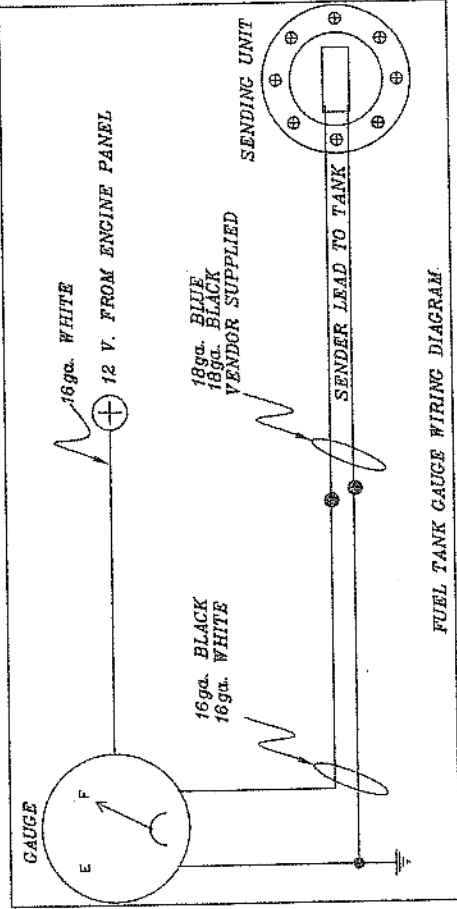


1. POTABLE WATER FILL LOCATION (1 1/2" / 38.1mm)
2. ELECTRIC BILGE DISCHARGE (1" / 25.4mm)
3. WASTE TANK DECK PUMPOUT (1 1/2" / 38.1mm)
4. MANUAL BILGE PUMP DISCHARGE (1" / 25.4mm)
5. L.P.C. LOCKER DRAIN (3/4" / 19.1mm)
6. FUEL DECK FILL (1 1/2" / 38.1mm)

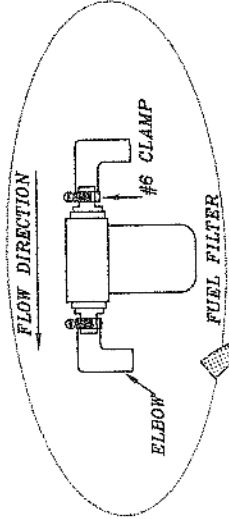
SEE PAGE 60C FOR
 DETAILS ON TYPICAL
 THRU HULL / DECK FITTINGS



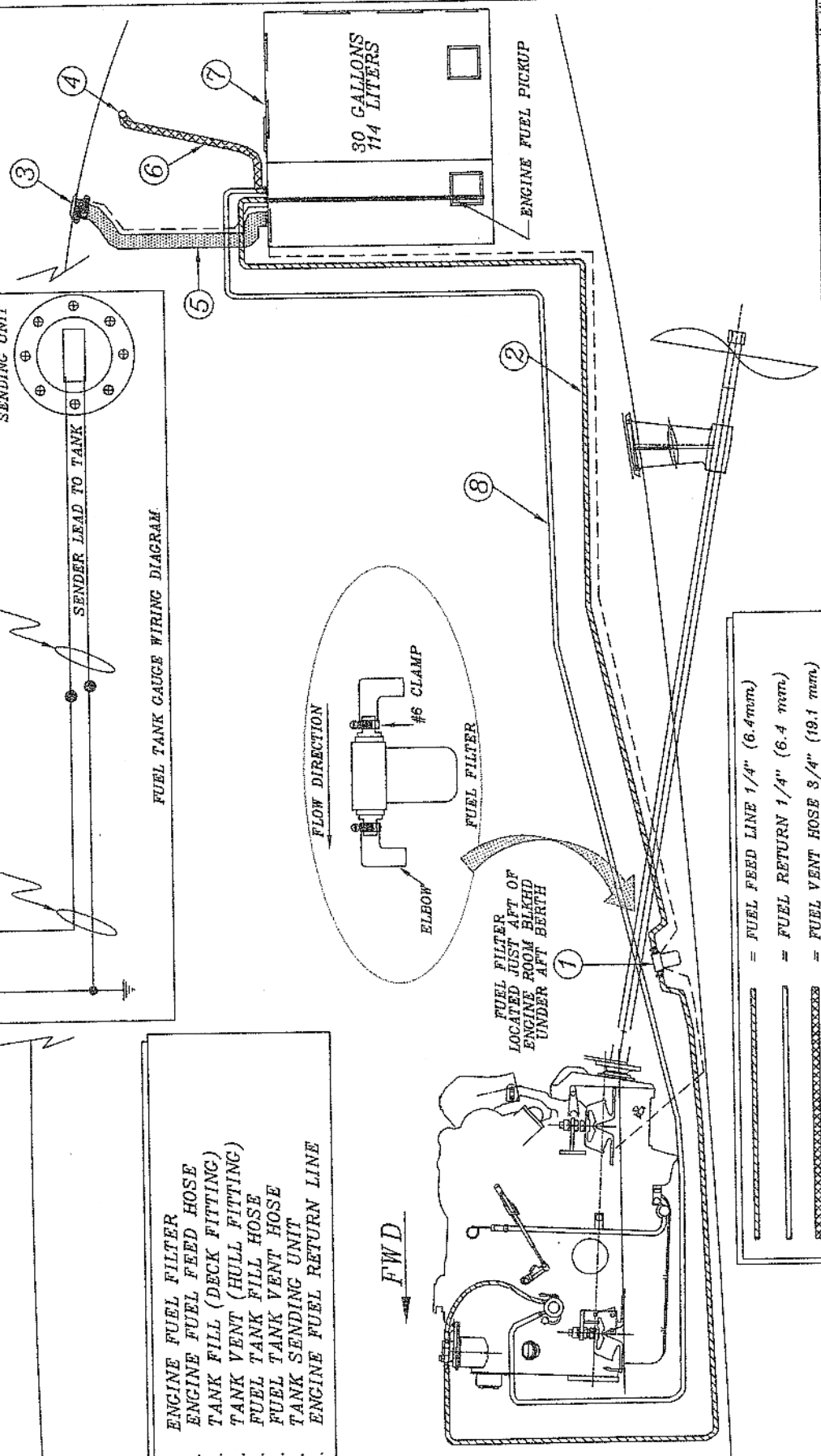
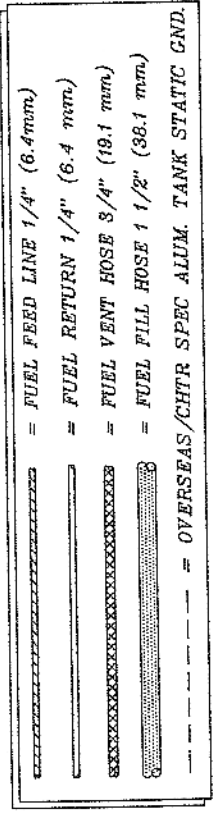
HUNTER
 H340 TYP. THRU HULL/DECK FITTINGS
 DRAWING NO. 3408060C
 REVISION NO. NONE
 DATE 10/13/99
 DEPT. OF ENGINEERING

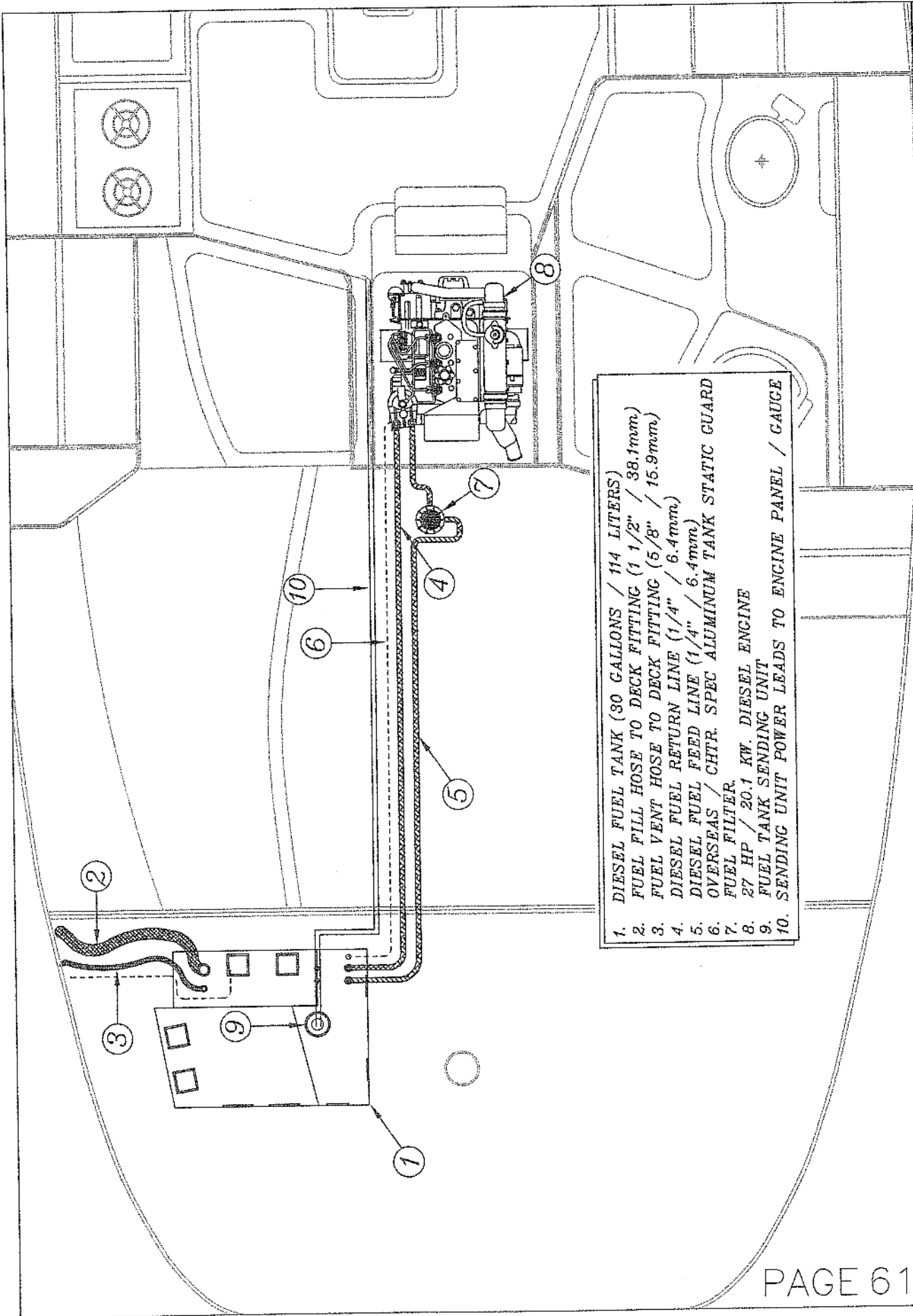


1. ENGINE FUEL FILTER
2. ENGINE FUEL FEED HOSE
3. TANK FILL (DECK FITTING)
4. TANK VENT (HULL FITTING)
5. FUEL TANK FILL HOSE
6. FUEL TANK VENT HOSE
7. TANK SENDING UNIT
8. ENGINE FUEL RETURN LINE

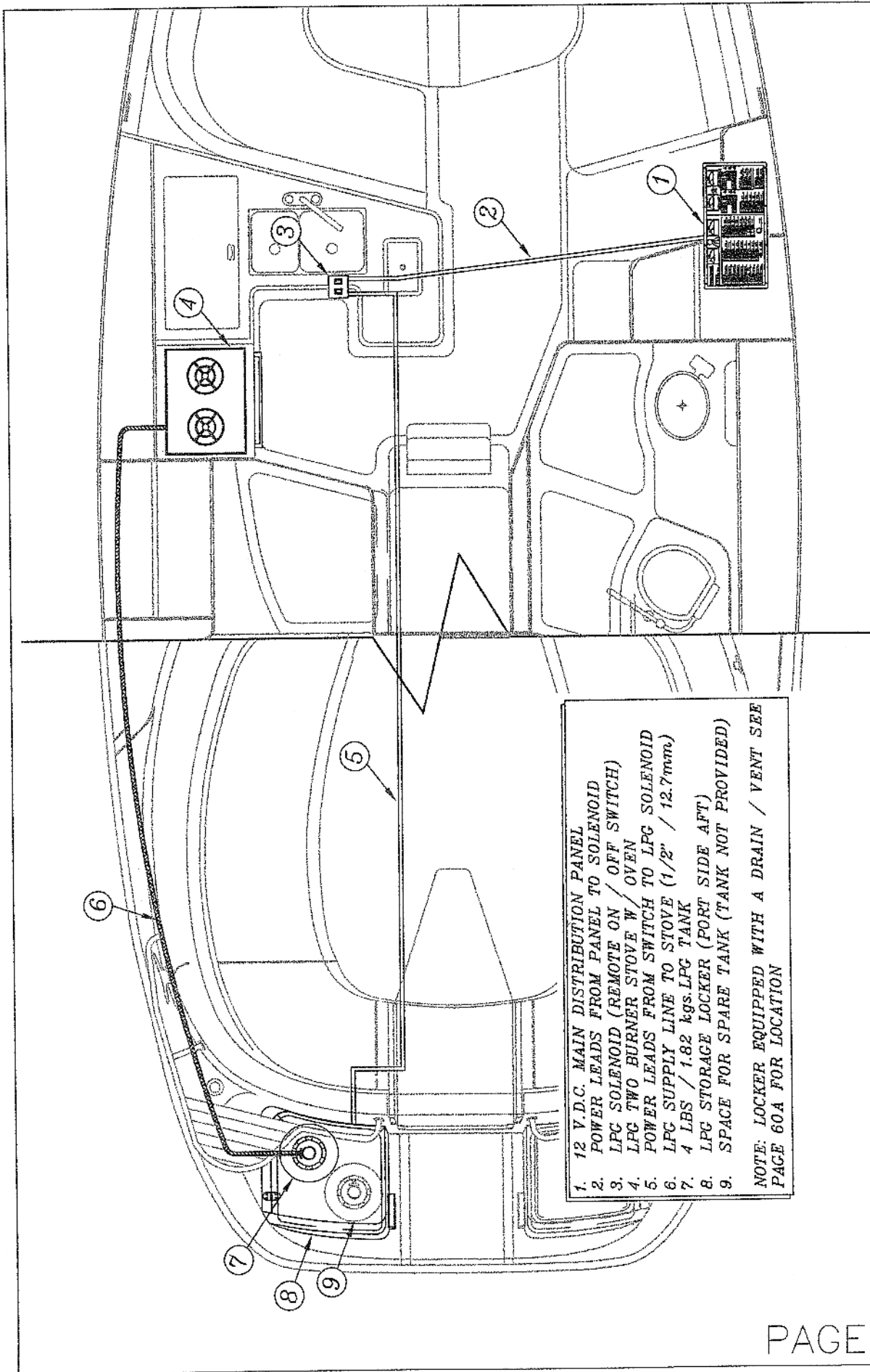


FUEL FILTER
LOCATED JUST AFT OF
ENGINE ROOM BLKHD
UNDER AFT BERTH



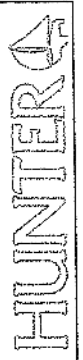


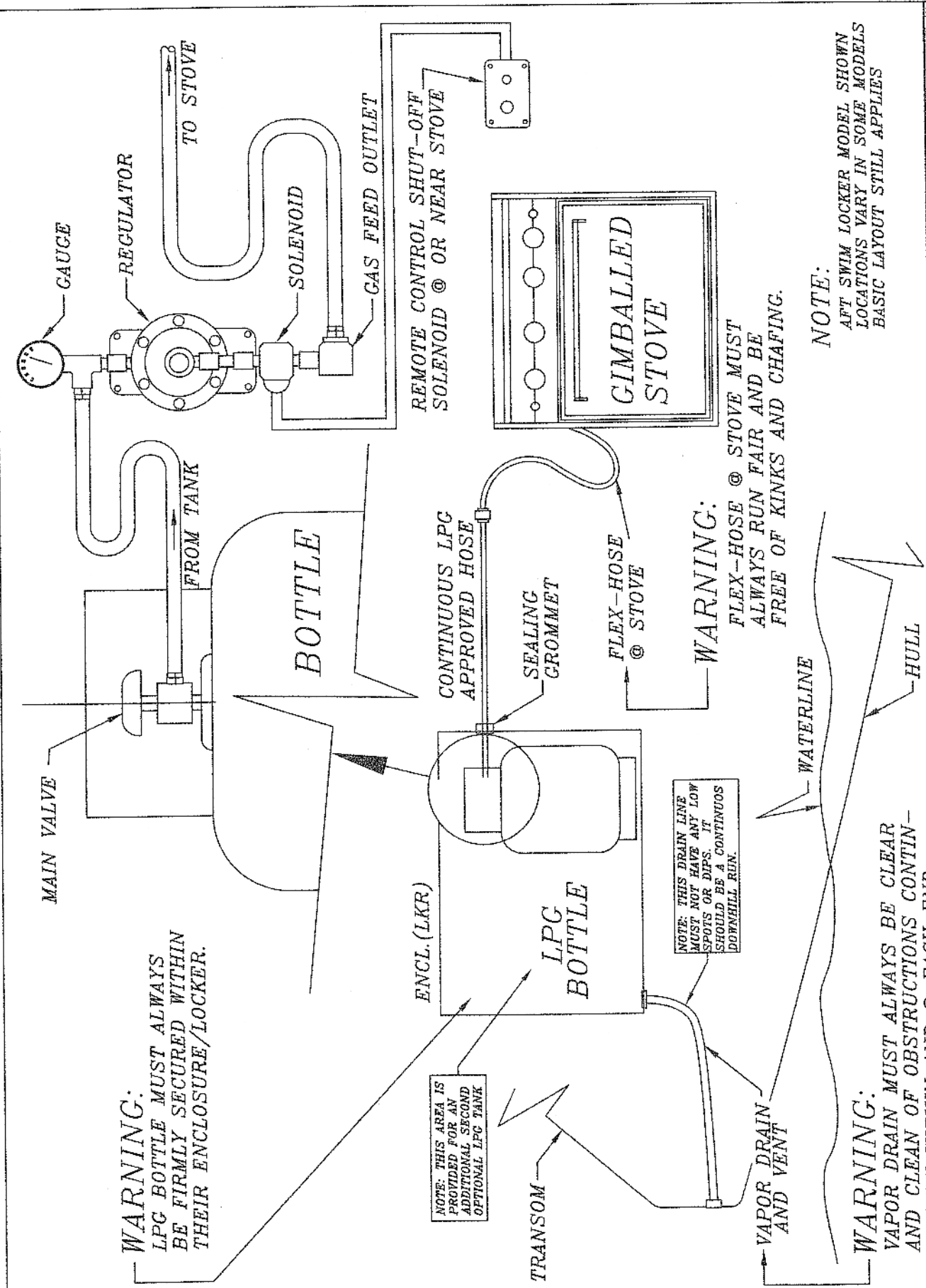
1. DIESEL FUEL TANK (30 GALLONS / 114 LITERS)
2. FUEL FILL HOSE TO DECK FITTING (1 1/2" / 38.1mm)
3. FUEL VENT HOSE TO DECK FITTING (5/8" / 15.9mm)
4. DIESEL FUEL RETURN LINE (1/4" / 6.4mm)
5. DIESEL FUEL FEED LINE (1/4" / 6.4mm)
6. OVERSEAS / CHTR. SPEC ALUMINUM TANK STATIC GUARD
7. FUEL FILTER.
8. 27 HP / 20.1 KW DIESEL ENGINE
9. FUEL TANK SENDING UNIT
10. SENDING UNIT POWER LEADS TO ENGINE PANEL / GAUGE



1. 12 V.D.C. MAIN DISTRIBUTION PANEL
2. POWER LEADS FROM PANEL TO SOLENOID
3. LPG SOLENOID (REMOTE ON / OFF SWITCH)
4. LPG TWO BURNER STOVE W/ OVEN
5. POWER LEADS FROM SWITCH TO LPG SOLENOID
6. LPG SUPPLY LINE TO STOVE (1/2" / 12.7mm)
7. 4 LBS / 1.82 kgs. LPG TANK
8. LPG STORAGE LOCKER (PORT SIDE AFT)
9. SPACE FOR SPARE TANK (TANK NOT PROVIDED)

NOTE: LOCKER EQUIPPED WITH A DRAIN / VENT SEE PAGE 60A FOR LOCATION





WARNING:
LPG BOTTLE MUST ALWAYS BE FIRMLY SECURED WITHIN THEIR ENCLOSURE/LOCKER.

NOTE: THIS AREA IS PROVIDED FOR AN ADDITIONAL SECOND OPTIONAL LPG TANK

NOTE: THIS DRAIN LINE MUST NOT HAVE ANY LOW SPOTS OR DIPS. IT SHOULD BE A CONTINUOUS DOWNHILL RUN.

WARNING:
FLEX-HOSE @ STOVE MUST ALWAYS RUN FAIR AND BE FREE OF KINKS AND CHAFING.

NOTE:
AFT SWIM LOCKER MODEL SHOWN
LOCATIONS VARY IN SOME MODELS
BASIC LAYOUT STILL APPLIES

WARNING:
VAPOR DRAIN MUST ALWAYS BE CLEAR AND CLEAN OF OBSTRUCTIONS CONTINUOUSLY WITHIN AND @ EACH END.

HUNTERA
 H340 L.P.G. SYSTEM LAYOUT
 DRAWING NO. 3400002B
 REVISION NO. NONE
 DATE 11/11/99
 ENGINEERING DEPT.
 The above is a schematic diagram for which HUNTERA ACCEPTS NO LIABILITY.

H340 ELECTRICAL SYSTEMS

H340 ELECTRICAL SYSTEM CONTENTS

PAGES 63A-10 THRU 63C-3 CONTAINS A.C. POWER SYSTEMS
(110 V.A.C.) (220 V.A.C. ON OVERSEAS MODELS)

NOTE TO CONSUMER: THE FOLLOWING PAGES PROVIDE DETAILED INFORMATION, SCHEMATICS ETC. PERTAINING TO THE H340 **STANDARD** ELECTRICAL SYSTEMS AS WELL AS THE **OPTIONAL** ELECTRICAL SYSTEM.

BE SURE TO READ THE DRAWING TITLE IN THE TITLE BLOCK TO ENSURE YOU ARE REFERRING TO THE CORRECT SYSTEM FOR YOUR MODEL.

BASIC POWER SYSTEMS / MAIN DIST. PANEL DESCRIPTION	PAGES 63A-2 THRU 63A-6
SELECTOR SWITCH PANELS.....	PAGE 63A-7
POWER SYSTEMS TROUBLESHOOTING GUIDE	PAGES 63A-8 & 63A-9
<hr/>	
A.C. DISTRIBUTION PANEL SCHEMATIC:	PAGES 63A-10
A.C. POWER WIRING.....	PAGE 63A-11
OPTIONAL AIR CONDITIONING SYSTEM	PAGES 63B-1 & 63B-2
CHARGING SYSTEM.....	PAGES 63C-1 THRU 63C-3

PAGES 64A-1 THRU 64J CONTAINS D.C. POWER SYSTEMS
(12 VOLT D.C.)

D.C. DISTRIBUTION. PANEL SCHEMATIC	PAGES 64A-1 & 64A-2
12 VOLT LIGHTING.....	PAGES 64B-1 & 64B-2
BILGE PUMP SCHEMATIC.....	PAGE 64C
STEREO LAYOUT.....	PAGE 64D
INSTRUMENTS LAYOUT.....	PAGE 64E
VHF RADIO LAYOUT.....	PAGE 64F
OPTIONAL REFRIGERATION SYSTEM.....	PAGE 64G-1 THRU 64G-3
OPTIONAL WINDLASS SYSTEM.....	PAGES 64H-1 THRU 64H-3
OPTIONAL ELEC. HALYARD SYSTEM.....	PAGES 64I-1 THRU 64I-3
OPTIONAL AUTOPILOT LAYOUT.....	PAGE 64J
WIRE CHASE LOCATIONS.....	PAGE 64K

SHORE POWER WIRING.....	PAGE 65A
ELECTRIC WIRING COLOR / GUAGE CHART.....	PAGE 65B

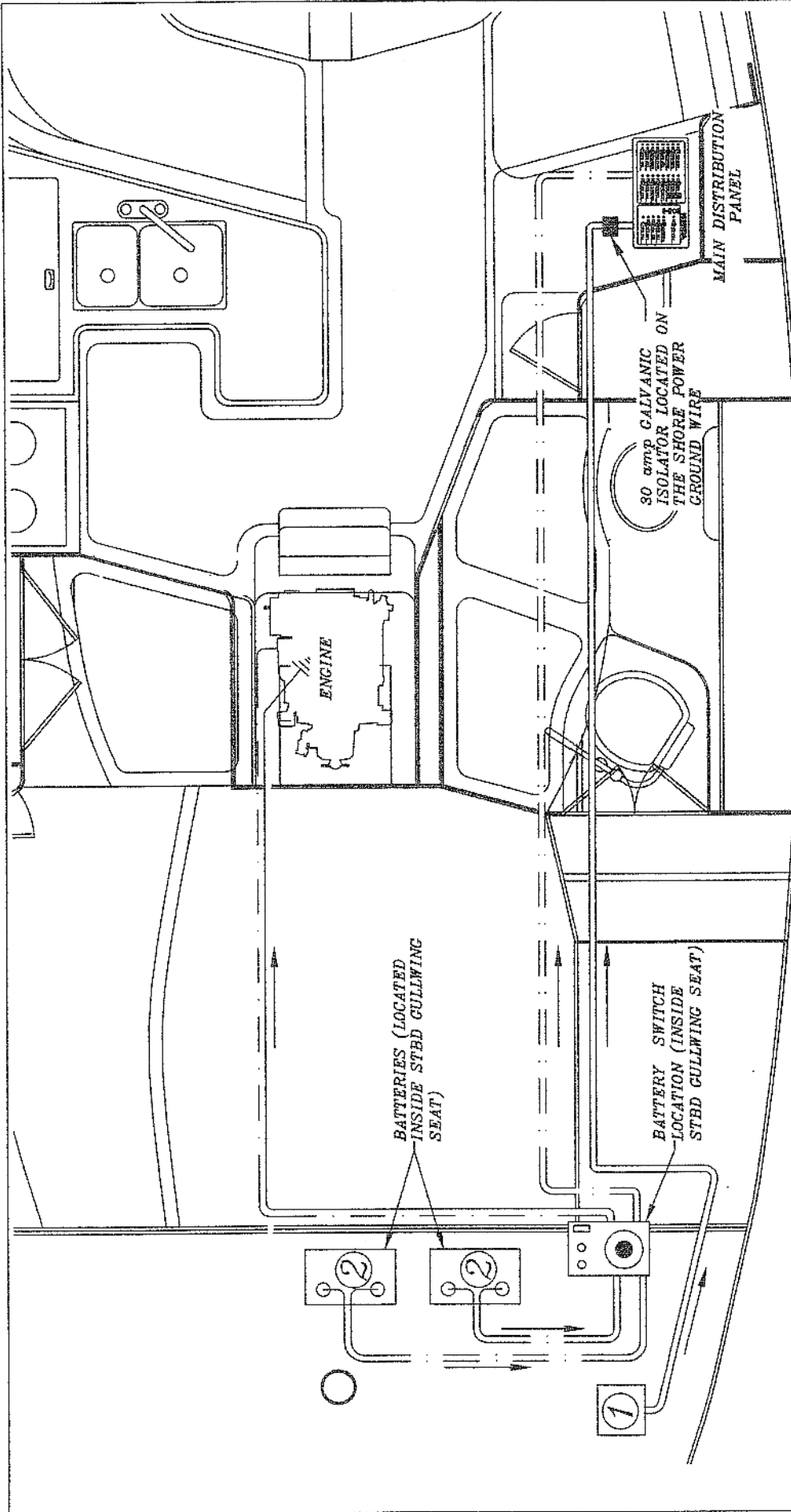
H340 POWER SYSTEMS OPERATION PROCEDURES

POWER SOURCE:	TO OPERATE:
D.C. MAIN	<p>STD. BATTERY CHARGER MODEL: TURN BATTERY SWITCH (LOCATED STBD GULLWING LOCKER) TO THE "1, 2, OR BOTH" POSITION, THEN TURN "ON" THE "D.C. MAIN" BREAKER. ON D.C. SIDE OF MAIN DISTRIBUTION PANEL.</p> <p>IF NO POWER: CHECK 50a. RESET ON THE BATTERY SWITCH PANEL AND/OR BATTERY CONNECTIONS IF NECESSARY.</p>
D.C. MAIN	<p>OPTIONAL INVERTER MODEL: TURN ON "D.C. MAIN" BRKR. ON D.C. SIDE OF MAIN DISTRIBUTION PANEL.</p> <p>TURN ON THE HOUSE/START BATTERY BREAKER LOCATED ON THE BOTTOM OF THE BATTERY ON/OFF SW. PANEL TO PROVIDE POWER TO D.C. PANEL FROM THE BATTERIES</p> <p>IF NO POWER: CHECK 200 amp IN LINE FUSE AT BATTERIES (LOCATED IN STBD SIDE AFT SWIM LOCKER).</p>
SHORE POWER "A"	<p>1. CONNECT SHORE POWER CABLE #1, TO SUPPLY POWER TO "A" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL</p> <p>2. TURN ON MAIN BREAKER ON SHORE POWER "A" SIDE OF PANEL</p> <p>3. "A" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL SHOULD NOW BE OPERABLE (NOTE: APPROX. 15 SECOND DELAY ON OPT. INV. MODELS)</p> <p>IF NO POWER TO "A" SIDE OF PANEL CHECK THE FOLLOWING:</p> <p>1. BREAKER AT DOCKSIDE POWER SUPPLY BOX</p> <p>2. BREAKER #1 INSIDE STBD COCKPIT SEAT LOCKER</p>
OPTIONAL INVERTER WHEN IN INVERT MODE (CONVERTS 12V.D.C. TO 110V.A.C.)	<p>1. TURN THE HOUSE BATTERY SELECTOR SWITCH INSIDE THE STBD SWIM LOCKER TO THE "ON" POSITION</p> <p>2. TURN THE INVERTER ON (LOCATED STBD AFT STATEROOM SHELF)</p> <p>3. TURN ON DESIRED BREAKER (EX. OUTLETS) ON "A" SIDE OF A.C. MAIN DISTRIBUTION PANEL</p> <p>NOTE: IT TAKES 10D.C. AMPS TO CREATE 1A.C. AMP, IF THE BATTERY VOLTAGE DROPS BELOW 10.5V. THE INVERTER WILL AUTOMATICALLY SHUT DOWN. (SEE "SEL. SW" & "METERS" ON PAGE 63A-7) ALSO THE OUTPUT OF THE INVERTER IS NOT CAPABLE OF POWERING THE WATER HEATER OR AIR COND. SYSTEM. THE WATER HEATER IS POWERED BY "SHORE POWER A" CABLE OR HEAT WATER USING THE ENGINE SEE PG 57A</p>
POWERS "A" SIDE OF A.C. PANEL ONLY WHEN INVERTING	<p>TO POWER D.C. SIDE OF PANEL AND "A" SIDE OF A.C. PANEL SIMULTANEOUSLY USING INVERTER:</p> <p>1. TURN ON D.C. MAIN BREAKER ON D.C. SIDE OF MAIN DISTRIBUTION PANEL</p> <p>2. TURN THE SELECTOR SWITCH TO THE "ON" POSITION</p>
USED WHEN NO SHORE POWER OR GEN. POWER BEING USED.	<p>3. TURN INVERTER ON</p> <p>THIS PROCEDURE ALLOWS INVERTER TO SUPPLY 110V.A.C. POWER TO "A" SIDE OF A.C. PANEL BY DRAWING POWER FROM THE BATTERIES (THIS APPLIES WHEN THERE IS NO SHORE POWER BEING SUPPLIED TO PANEL)</p>
BUILT IN INVERTER. TRANSFER SWITCH.	<p>THE INVERTER AUTO. TRANSFERS SHORE POWER TO THE A.C. PANEL WHEN "SHORE POWER A" CABLE CONNECTED AND DOCKSIDE POWER PRESENT AT A.C. PANEL</p> <p>BYPASSING THE INVERT MODE CAPABILITIES.</p>

H340 POWER SYSTEMS OPERATION PROCEDURES CONT

H340 BATTERY CHARGING SYSTEMS OPERATION PROCEDURES

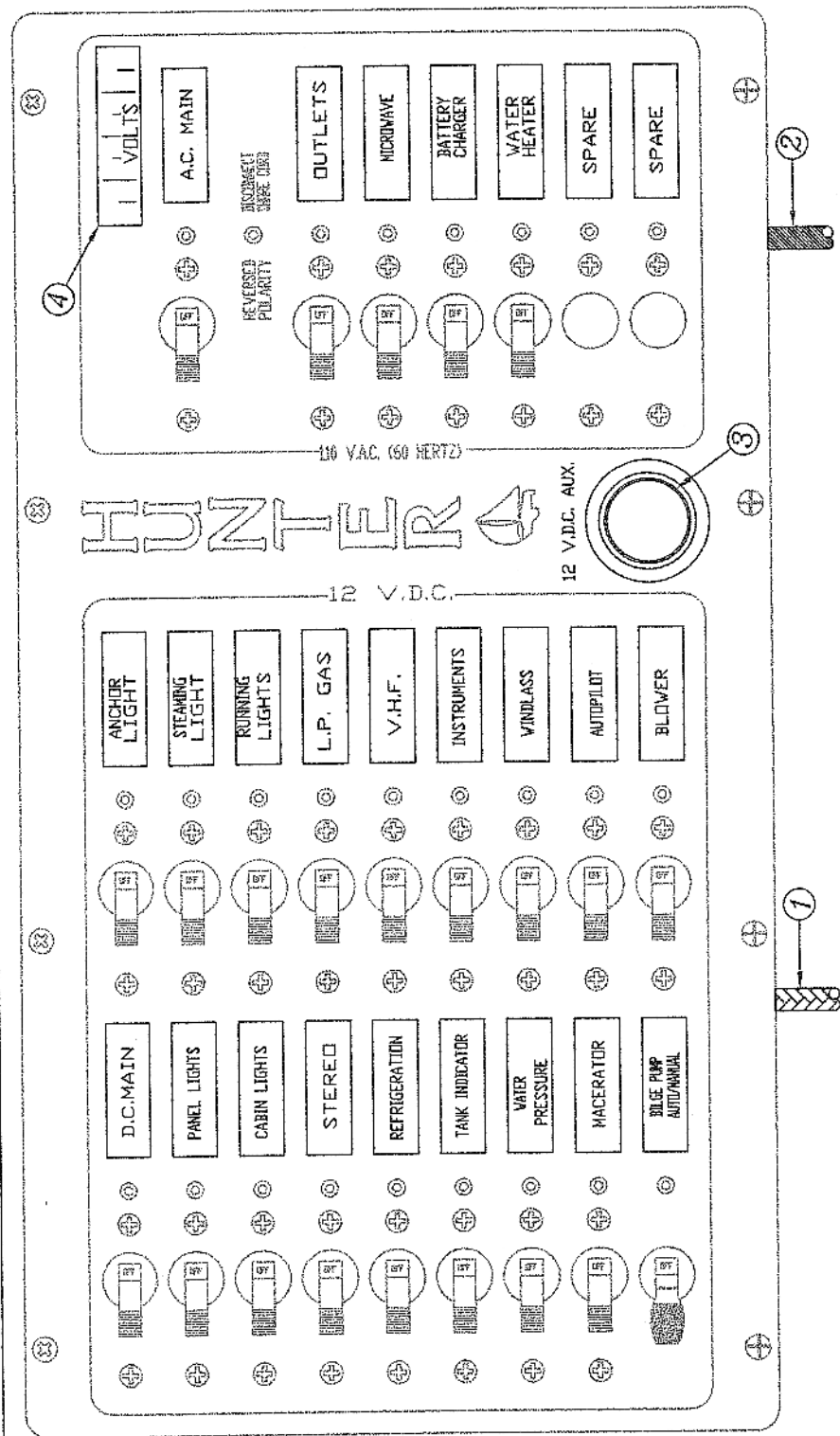
STD. BATT. CHARGER	<p>1. CONNECT SHORE POWER CABLE #1 TO POWER "A" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL AND TURN ON "SHORE POWER A" MAIN BREAKER</p> <p>2. TURN "BATTERY CHARGER" BREAKER (LOCATED ON "A" SIDE OF A.C. PANEL) TO THE "ON" POSITION NOTE: IT IS NOT NECESSARY TO TURN ON THE "HOUSE/START" SWITCH TO PROVIDE CHARGING POWER TO THE HOUSE/START BATTERIES.</p>
ENGINE ALTERNATOR	<p>1. TURN BATTERY SELECTOR SWITCH TO THE "ON" POSITION</p> <p>2. CHECK SEA STRAINER & OPEN RAW WATER SEACOCK. SEE PAGE 60A FOR LOCATION</p> <p>3. START SHIP'S ENGINE (FOLLOW STARTING INSTRUCTIONS IN THE "ENGINE MANUAL.")</p>
OPTIONAL INVERTER INVERTER HAS A BUILT IN AUTO. CHARGING SYSTEM	<p>1. CONNECT SHORE POWER CABLE #1 TO POWER "A" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL AND TURN ON "SHORE POWER A" MAIN BREAKER</p> <p>2. TURN INVERTER OFF</p> <p>3. TURN BATTERY ON/OFF SWITCH TO THE "ON" POSITION</p> <p>NOTES: WHEN LEAVING BOAT UNATTENDED, BE SURE INVERTER IS OFF, THIS WAY IF SHORE POWER IS LOST FOR ANY REASON, THIS WILL PREVENT THE INVERTER FROM CONVERTING 12V D.C. TO A.C. VOLTAGE CAUSING THE BATTERIES TO BE DRAINED. WHEN THE INVERTER SWITCH IS IN THE "OFF" POSITION THE INVERTER AUTOMATICALLY GOES INTO CHARGE MODE INVERTER CHARGE MODE WORKS ONLY WHEN THERE IS POWER TO THE "A" SIDE OF THE A.C. PANEL</p>



1. SHORE POWER INLET, SUPPLIES A.C. POWER FROM DOCKSIDE RECEPTACLE TO A.C. SIDE OF MAIN DISTRIBUTION PANEL
 2. BATTERIES SUPPLY 12 V.D.C. POWER TO BOTH THE D.C. SIDE OF MAIN DISTRIBUTION PANEL & ENGINE STARTER

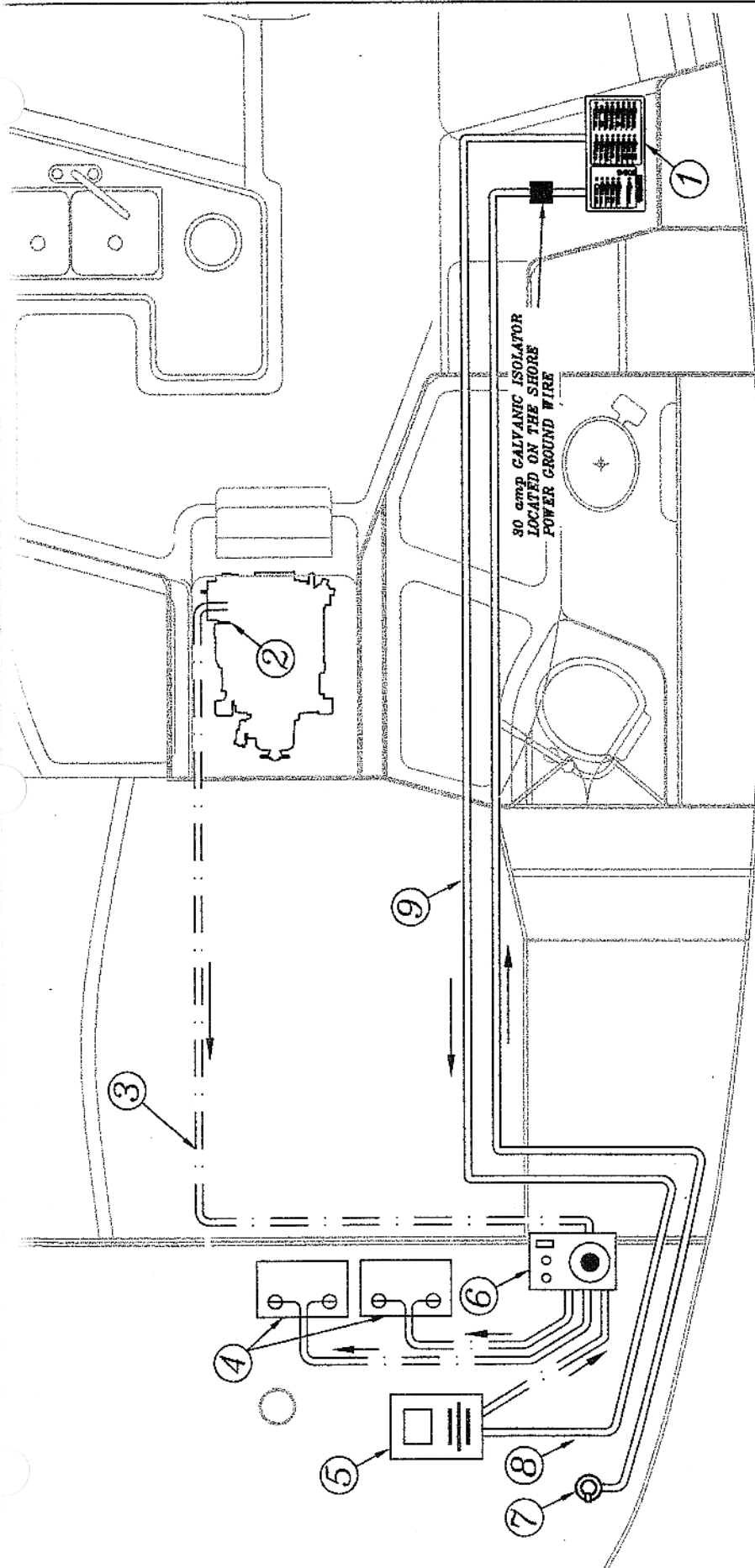
== : 110 V.A.C. POWER LEADS (220 VOLTS ON SELECT OVERSEAS MODELS)
 == : 12 V.D.C. POWER LEADS
 → : POWER FLOW DIRECTION

For complete details information for which HUNTERA WIRE, INC. has proprietary rights.
HUNTERA
H340 BASIC POWER (SUPPLY) SYSTEM LAYOUT
 DRAWING NO. 340B063A-3
 REVISION NO. NONE
 DESIGNED BY ENGINEERING DEPT. DATE 2/11/88



1. HOUSE BATTERY TO D.C. SIDE OF MAIN DISTRIBUTION PANEL
 2. SHORE POWER TO A.C. SIDE OF MAIN DISTRIBUTION PANEL
 3. 12 V.D.C. AUXILIARY OUTLET FOR ACCESSORY. (EXAMPLE: CELL PHONE)
 4. LOCATION OF AVAILABLE VOLTS / AMP DRAW METER

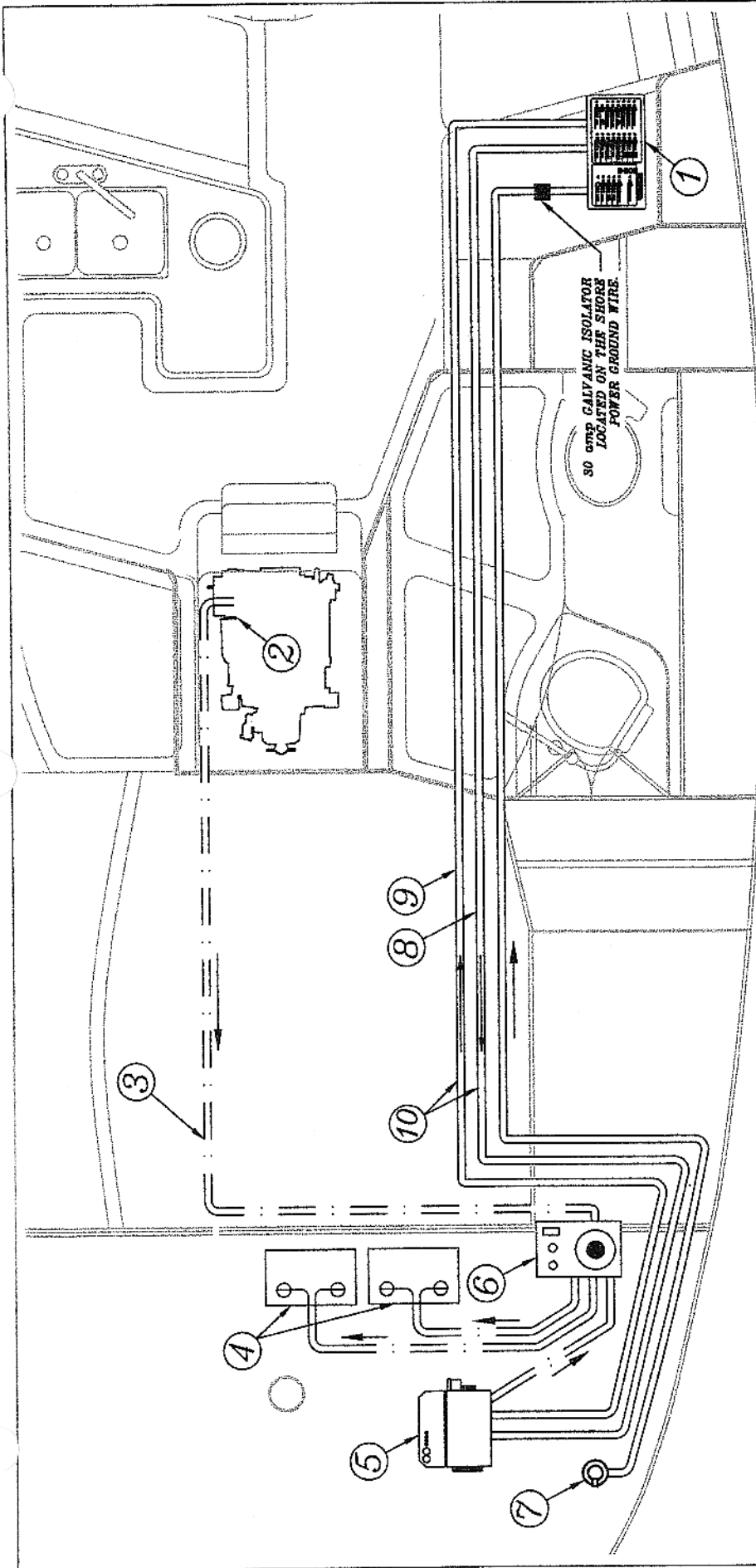
NOTES:
 A. SEE PAGES 63A-7 AND 8 FOR FURTHER DESCRIPTIONS OF THE BREAKERS.
 B. NOTE: SOME EQUIPMENT, IF OPTIONED, MAY CHANGE THE CONFIGURATION OF THE ABOVE BREAKER LAYOUT. FOR EXAMPLE: IF AN INVERTER IS PRESENT, THEN THE BATTERY CHARGER BREAKER BECOMES A SPARE. ALSO, IF AN AUTOPILOT SYSTEM OR A WINDLASS IS NOT OPTIONED, THESE BREAKERS WILL BECOME SPARES AS WELL. IF ANY CIRCUITS ARE DESIRED TO BE ADDED ON TO THESE BREAKERS, BE AWARE OF THE AMPERAGE DRAW AND ENSURE THIS DOES NOT EXCEED THE BREAKER'S RECOMMENDED LIMITS.



1. MAIN DISTRIBUTION PANEL (LOCATED @ NAV STATION)
2. ENGINE ALTERNATOR CHARGE CIRCUIT
3. BATTERIES (LOCATED IN STBD GULLWING LOCKER)
4. BATTERY SELECTOR SWITCH (LOCATED IN STBD GULLWING LOCKER)
5. STANDARD BATTERY CHARGER (LOCATED IN STBD GULLWING LOCKER)
6. BATTERY SELECTOR SWITCH (LOCATED IN STBD GULLWING LOCKER)
7. SHORE POWER INLET. SUPPLIES POWER TO A.C. SIDE OF PANEL FROM DOCK SIDE RECEPTACLE.
8. A.C. POWER FROM DISTRIBUTION PANEL TO BATTERY CHARGER
9. 14/8 BOAT CABLE

= 110 V.A.C. POWER LEADS
 (220 V. ON SOME OVERSEAS MODELS)
 = CHARGING CIRCUIT
 = POWER FLOW DIRECTION

HUNTER 4
 H340 BASIC CHARGING SYSTEM LAYOUT
 DRAWING NO. 3408063A-5
 ENGINEERING DEPT. DATE: 2/11/98
 NONE



1. MAIN DISTRIBUTION PANEL (LOCATED @ NAV STATION)
 2. ENGINE ALTERNATOR CHARGE CIRCUIT
 3. BATTERIES (LOCATED IN STBD GULLWING LOCKER)
 4. BATTERIES (LOCATED ON STBD AFT STATEROOM SHELF)
 5. OPTIONAL INVERTER (LOCATED ON STBD AFT STATEROOM SHELF)
- *NOTE: THE INVERTER'S CASING IS CONNECTED TO A GROUNDING STUD USING A 4 GAUGE CABLE.
6. BATTERY SELECTOR SWITCH (LOCATED IN STBD GULLWING LOCKER)
 7. SHORE POWER INLET. SUPPLIES POWER TO A.C. SIDE OF PANEL FROM DOCK SIDE RECEPTACLE.
 8. A.C. POWER FROM DISTRIBUTION PANEL TO INVERTER
 9. A.C. POWER FROM INVERTER TO DISTRIBUTION PANEL
 10. 10/3 BOAT CABLES (1 WIRE TO & 1 WIRE FROM)

— = 110 V.A.C. POWER LEADS
 (220 V. ON SOME OVERSEAS MODELS)
 - - - = CHARGING CIRCUIT
 → = POWER FLOW DIRECTION

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HUNTER

H340 OPTIONAL INVERTER SYSTEM LAYOUT

PROJECT NO.	340B03A-6	REVISION NO.	NONE
DATE		DATE	10/19/99
ENGINEERING DEPT.			

H340 12 V.D.C. DISTRIBUTION PANEL

BREAKER	DESCRIPTION
12 V. D.C. MAIN	SUPPLIES 12 V.D.C. POWER TO ALL BREAKERS ON D.C. SIDE OF PANEL.
PANEL LIGHTS	ILLUMINATES BOTH A.C. & D.C. SIDES OF THIS PANEL FOR NIGHT USE
CABIN LIGHTS	SUPPLIES POWER TO ALL INTERIOR LIGHTS AND COCKPIT LIGHT
STEREO	SUPPLIES POWER TO STEREO UNIT
REFRIGERATION	SUPPLIES POWER TO REF. COMPRESSOR, ADJUST THERMOSTATS INSIDE FRIDGE/FREEZER TO DESIRED TEMP.
TANK INDICATOR	SUPPLIES POWER TO FUEL TANK GAUGES
WATER PRESSURE	SUPPLIES POWER TO FRESH WATER PUMP TO PRESSURIZE WATER SYSTEM.
MACERATOR	SUPPLIES POWER TO MACERATOR (LOCATED INSIDE STBD AFT SWIM LOCKER), NOTE: THESE DEVICES ARE USED FOR DIRECT OVERBOARD DISCHARGE OF RAW SEWAGE, BE AWARE OF YOUR LOCAL BOATING REG. BEFORE USING.
BILGE PUMP	TOGGLE SWITCH STAYS IN THE "AUTO" POSITION, THIS ALWAYS FEEDS POWER TO THE FLOAT SWITCH (AS LONG AS BATTERY IS CONNECTED AND HAS AMPLE CHARGE). FOR MANUAL USE, PUSH SWITCH TO "MANUAL" ILLUMINATED LIGHT INDICATES POWER TO PUMP, THUS PUMP SHOULD BE RUNNING. PRIOR TO LEAVING VESSEL "MANUALLY" TEST PUMP AND CHECK BATTERY LEVEL. SEE BATTERY SELECT SWITCH BELOW.
ANCHOR LIGHT	SUPPLIES POWER TO 360 DEGREE LIGHT AT TOP OF MAST, USE WHEN ANCHORED AT NIGHT.
STEAMING LIGHT	SUPPLIES POWER TO STEAMING LIGHT LOCATED ON FWD. SIDE OF MAST APPROXIMATELY AT THE HEIGHT OF THE LOWER SPREADERS. USE AT NIGHT (WITH RUNNING LIGHTS) WHEN VESSEL UNDERWAY BY ENGINE POWER.
RUNNING LIGHTS	SUPPLIES POWER TO THE BOW, STERN , & COMPASS LIGHT. USE AT NIGHT UNDER SAIL AND/OR ENGINE POWER.
L. P. GAS	SUPPLIES POWER TO L.P. GAS SWITCH AT GALLEY. SEE "L.P. GAS MANUAL" FOR OPER. & SAFETY INST.
VHF	SUPPLIES POWER TO THE VHF RADIO
INSTRUMENTS	SUPPLIES POWER TO DEPTH, & SPEED REPEATERS LOCATED ON HELM CONSOLE.
OPT. WINDLASS	SUPPLIES POWER TO UP/DOWN CONTROLS AT ANCHOR WELL. NOTE: BECAUSE THE WINDLASS DRAWS IT'S POWER FROM THE START BATTERY, IT IS GOOD PRACTICE TO START THE SHIPS ENGINE PRIOR TO OPERATING WINDLASS TO PREVENT BATTERY DRAIN. (IF NO POWER CHECK RESET ON REMOTE PANEL @ NAV STATION)
OPT. AUTOPILOT	THIS BREAKER PROVIDED FOR AN OPTIONAL AUTOPILOT SYSTEM.
BLOWER	SUPPLIES POWER TO THE VENTILATION BLOWER IN THE ENGINE BOX
SPARE/S	*SEE NOTATION BELOW
12V.D.C. AUX.	THIS POWER PLUG PROVIDED FOR CELLPHONE, LAPTOP COMPUTER, ETC.
INDICATOR LIGHTS	INDICATORS ILLUMINATE WHEN 12 V.D.C. POWER PRESENT.
NOTES:	IF THE OPTIONAL AUTOPILOT WAS INSTALLED AT THE FACTORY, THE "INSTRUMENTS" POWER LEADS ARE WIRED TO THE AUTOPILOT BREAKER. (THIS APPLIES TO THE OPTIONAL G.P.S. AS WELL) THIS ALLOWS THESE UNITS TO WORK SIMULTANEOUSLY OFF THE AUTOPILOT BREAKER. SEE PAGE 64A-1 FOR BREAKER AMPERAGES. SEE NOTATION BELOW. *NOTE THE SPARE BREAKERS ON THIS PANEL EXIST BECAUSE THIS MODEL MAY NOT HAVE OPTIONED THE COINCIDING ACCESSORY FOR THAT BREAKER. FOR EXAMPLE, ON THIS PANEL, THE AUTOPILOT AND WINDLASS ARE OPTIONAL ITEMS AND MAY NOT HAVE BEEN REQUESTED. IF THIS IS THE CASE WITH YOUR MODEL, THEN THESE BREAKERS WILL THEN BECOME SPARES. BE AWARE OF THE BREAKER'S AMPERAGES TO BE SURE THAT IT IS COMPATIBLE WITH ANY DEVICE THAT IS TO BE CONNECTED TO IT. (ADDITIONAL " SPARE BRKRS" LOCATION PROVIDED ON A.C. SIDE OF THE PANEL ONLY)

110V.A.C. (220 OVERSEAS MODELS) DISTRIBUTION PANEL

BREAKERS

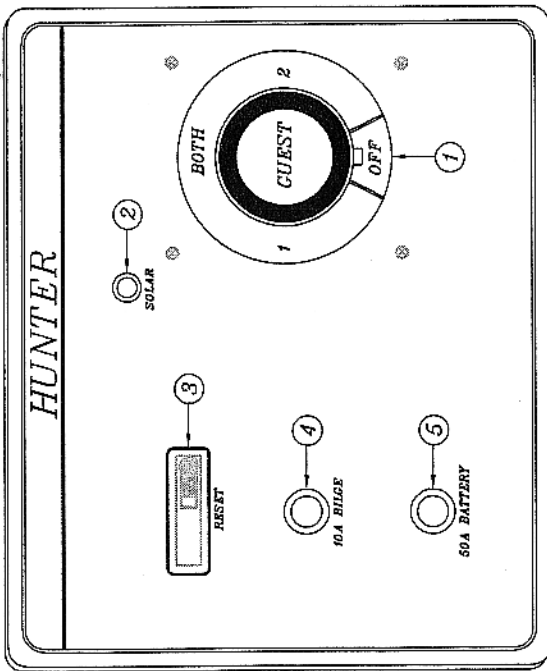
DESCRIPTION

"A" SIDE OF A.C. PANEL

A.C. MAIN	PROVIDES A.C. VOLTAGE TO THIS SIDE OF PANEL WHEN SHORE POWER CORD "A" IS CONNECTED TO OUTLET AT DOCKSIDE POWER SUPPLY.
OUTLETS	PROVIDES A.C. POWER TO THE BOAT'S OUTLETS
MICROWAVE	SUPPLIES POWER TO OUTLET BEHIND MICROWAVE IN WHICH MICROWAVE IS PLUGGED INTO.
BATT. CHARGER	PROVIDES POWER TO BATTERY CHARGER WHICH IN TURN PROVIDES CHARGING POWER TO BATTERIES. NOTE: IF OPTIONAL INVERTER CHOSEN THIS BREAKER IS NOT UTILIZED AND IS AVAILABLE AS A "SPARE" BREAKER. *SEE BELOW
WATER HEATER	SUPPLIES POWER TO WATER HEATER. BE SURE TANK IS FULL AND SYSTEM IS FREE FROM AIR BEFORE APPLYING POWER TO HEATER TO PREVENT ELEMENT BURNOUT. NOTE DO NOT TRY TO POWER WATER HEATER OFF OF THE OPTIONAL INVERTER, IT IS NOT CAPABLE OF SUPPLYING ENOUGH POWER TO POWER UNIT.
MISC. INFO	
SPARE BREAKERS	*SEE BELOW
LED INDICATORS	ILLUMINATE WHEN A.C. POWER PRESENT.
METER GAUGE	ALLOWS VOLTAGE BEING SUPPLIED TO BE DISPLAYED
REV. POLARITY	IF REVERSED POLARITY INDICATOR ILLUMINATES AFTER CONNECTING SHORE POWER HAVE DOCKSIDE POWER CHECKED BY QUALIFIED PERSONNEL.
NOTE:	SEE PAGE 64A-1 FOR BREAKER AMPERAGES
SPARE BREAKERS	BE AWARE OF THE SPARE BREAKER'S AMPERAGE TO BE SURE THAT IT IS COMPATIBLE WITH ANY DEVICE CONNECTED TO THESE BREAKERS (ADDITIONAL "SPARE BREAKER" LOCATIONS PROVIDED ONLY)
<p>NOTE: A PRUDENT MARINER REALIZES THAT THE RESOURCES TO POWER A VESSEL ARE LIMITED. WHEN USING THE BATTERY CHARGER OR INVERTER ONE SHOULD BE CONSERVATIVE AND AWARE OF THE AMOUNT OF POWER BEING SUPPLIED VERSES POWER BEING DRAWN THIS IS ESPECIALLY IMPORTANT WHEN USING OPTIONAL INVERTER POWER. CONSULT THE "INVERTER MANUAL" FOR POWER OUTPUT CAPABILITIES.</p>	

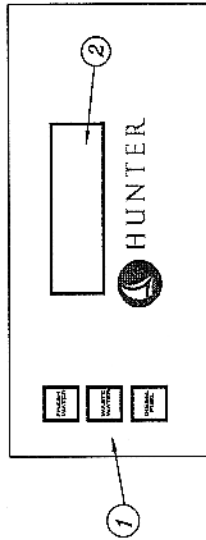
H340 SYSTEMS PANELS

BATTERY SELECTOR SWITCH / FUSE PANEL
LOCATED IN STBD AFT GULLWING LOCKER

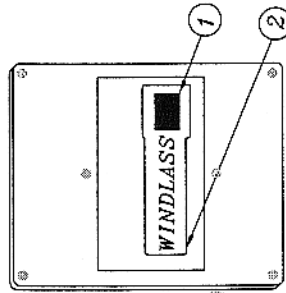


1. DUAL HOUSE / START BATTERY SELECTOR SWITCH.
- #1: DRAWS POWER FROM # 1 BATTERY
- #2: DRAWS POWER FROM #2 BATTERY (OPTIONAL)
- BOTH: DRAWS POWER FROM BOTH SIMULTANEOUSLY.
2. SOLAR PANEL FUSE UNUSED ON THIS MODEL
3. 30 amp RESET BREAKER FOR SHORE POWER INLET.
4. 10 amp BILGE PUMP RESET LOCATION
5. 50 amp D.C. MAIN RESET LOCATION

WATER/WASTE/FUEL TANK SELECTOR AND
LEVEL GAUGES

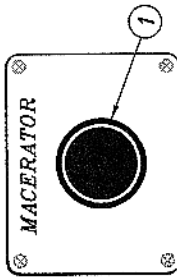


1. TANK SELECTOR SWITCHES
2. TANK SELECTION DISPLAY

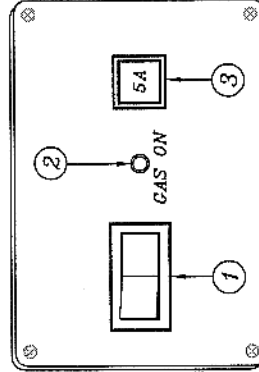


1. (TEST) ON/OFF BUTTON, PUSH TO TRIP
RESET
2. "RESET" PUSH UP TO RESTORE POWER.

NOTE: WINDLASS PANEL SUPPLIES POWER
TO THE OPTIONAL WINDLASS MOTOR. THE
"WINDLASS BREAKER" ON THE DC MAIN
DISTRIBUTION PANEL, SUPPLIES POWER TO
THE UP/DOWN CONTROLS.



1. MACERATOR MOMENTARY SWITCH BUTTON.
ENGAGES MACERATOR PUMP. SEE PAGE 58B
FOR OPERATION DETAILS AND SCHEMATIC.
- NOTE: MACERATOR BUTTON LOCATED AT THE
NAVIGATION STATION.



1. SOLENOID ON / OFF SWITCH (L.P. GAS EMERGENCY SHUTOFF SWITCH)
2. L.E.D. INDICATOR (INDICATES THERE IS GAS BEING SENT TO THE SYSTEM)
3. 5 amp FUSE FOR SOLENOID POWER

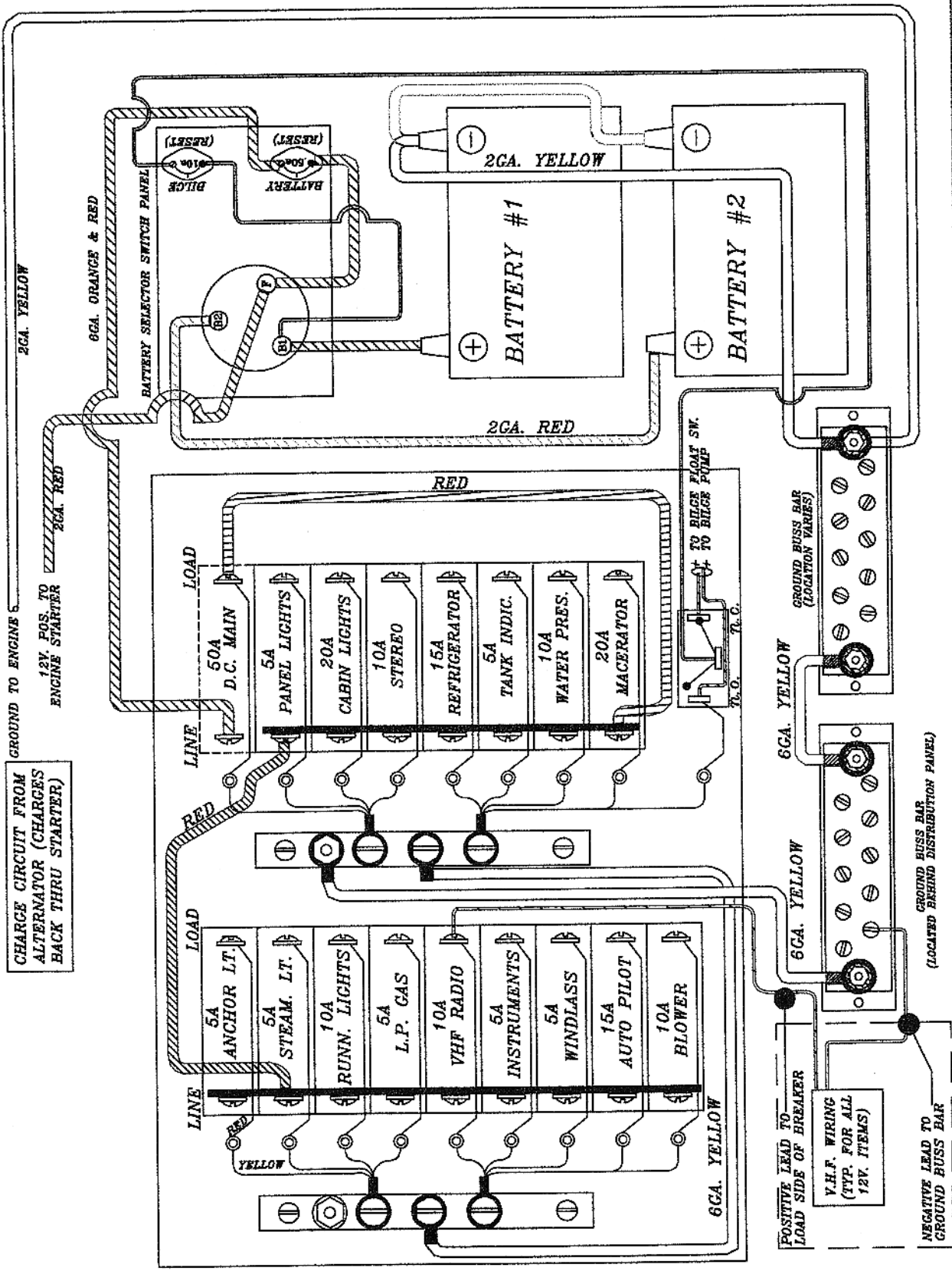
H340 SYSTEM PANELS		HUNTER
DESIGN NO.	3408063A-8	ISSUE NO.
REVISION		DATE
ENGINEERING DEPT.		10/21/99

12V.D.C. SYSTEM TROUBLESHOOTING GUIDE

TO POWER D.C. PANEL:	STD. BATTERY CHARGER MODEL TURN BATTERY SWITCH TO	
THIS IS TO POWER PANEL FOR CHARGING, SEE PAGE 63A-2	THE "ON" POSITION, THEN TURN "ON" "D.C. MAIN" BREAKER ON MAIN DIST. PANEL. IF NO POWER TO PANEL: CHECK THE "RESET" ON THE BATTERY SWITCH PANEL AND / OR BATTERY CONNECTIONS IF NECESSARY.	
TO POWER D.C. PANEL:	OPTIONAL INVERTER MODEL, TURN ON "D.C. MAIN" BREAKER ON PANEL, IT IS	
THIS IS TO POWER PANEL FOR CHARGING, SEE PAGE 63A-2	NECESSARY TO TURN ON THE BATTERY SWITCH TO THE "ON" POSITION TO SUPPLY POWER TO D.C. PANEL IF NO POWER TO PANEL: CHECK THE 50amp RESET BREAKER AND/OR THE 200 a. IN LINE FUSES AT THE BATTERY SWITCH OR THE BATTERY CONNECTIONS IF NECESSARY.	
COMPONENT	SYMPTOM	POSSIBLE SOLUTION/S
D.C. MAIN	NO POWER TO PANEL	SEE "TO POWER PANEL" ABOVE BATTERY/S CHARGED?
PANEL LIGHTS	PANEL WON'T ILLUMINATE	SEE "TO POWER TO PANEL" ABOVE BATTERY TERMINALS CLEAN? SEEK QUALIFIED PERSONELL
CABIN LIGHTS	WON'T ILLUMINATE	SEE "TO POWER PANEL" ABOVE BULB/S NEED REPLACING?
STEREO	WON'T TURN ON STEREO TURNS ON, NO SOUND	SEE "TO POWER PANEL" ABOVE IS STEREO UNIT ON? ARE VOLUME CONTROLS TURNED DOWN?
REFRIGERATION	WON'T GET COLD UNIT KEEPS TURNING OFF	SEE "TO POWER PANEL" ABOVE. IS THERMOSTAT TURNED ON? SEEK QUALIFIED PERSONELL
TANK INDICATOR	TANK LEVEL GAUGES DON'T ILLUMINATE TANK LEVEL DISPLAYED IS INCORRECT	SEE "TO POWER PANEL" ABOVE TANK SENDING UNIT NEEDS CLEANING
WATER PRESSURE	NO POWER CYCLES ON/OFF EXCESSIVELY	SEE "TO POWER PANEL" ABOVE FAUCETS OFF? LEAK IN SYSTEM SEE PLUMBING FOR INFO
MACERATOR	RUNS BUT DOESN'T DISCHARGE PUMP MAKES NOISE, DOESN'T PUMP	IS DISCHARGE SEACOCK OPEN? IS WASTE DECK FITTING SECURE, IS IT PULLING AIR THRU? IF SO REPLACE O- RING ON CAP. IS TANK VENT (HULL FITTING) CLOGGED? SEE PAGE 60A FOR LOCATIONS LODGED DEBRIS, TURN OFF POWER TO PUMP, INSERT SCREWDRIVER INTO PUMP ARMATURE AT END OF PUMP AND TURN TO DISLodge DEBRIS
BILGE PUMP	WON'T OPERATE AUTO OR MANUAL PUMP MAKES NOISE, DOESN'T PUMP PUMP RUNS BUT DOESN'T DISCHARGE	BATTERY LEVEL O.K.? SEE VOLT METER CHECK BILGE RESET ON STRT.BATT. SEL. SWITCH PANEL UNDER CHART TABLE. BATTERY CONNECTIONS GOOD? DEBRIS IN PUMP IMPELLER? DISCHARGE HOSE CLOGGED?
NOTE: COMPONENT/S FAILURE COULD ALSO BE THE RESULT OF A POOR "GROUND" CONNECTION. SEE GROUNDING SYSTEM FOR GROUND LAYOUT AND GROUND STUD / BUSSBAR LOCATIONS. DUE TO VIBRATION, WEATHER CONDITIONS, ECT. OCCASIONAL INSPECTION, CLEANING AND TIGHTENING OF THESE TERMINALS (BY QUALIFIED PERSONELL) MAY BE NECESSARY.		

110 V.A.C. SYSTEM TROUBLESHOOTING GUIDE

COMPONENT	SYMPTOM	POSSIBLE SOLUTION/S
ANCHOR, STEAMING, DECK, & RUNNING LIGHTS	WON'T ILLUMINATE	SEE "TO POWER PANEL" PREV. PAGE CHECK CONNECTIONS IN ACCESS PANEL TOP OF COMPRESSION POST. BULBS NEED REPLACING?
L.P. GAS	NO POWER TO TO SWITCH AT GALLEY SYSTEM TURNS ON, NO GAS PRESENT	SEE "TO POWER PANEL" ABOVE IS TANK VALVE OPEN? IS TANK EMPTY? SEE STOVE / OVEN MANUAL
VHF RADIO	WON'T OPERATE TURNS ON, WON'T TRANSMIT/RECEIVE	SEE "TO POWER PANEL" PREV. PAGE RADIO TURNED ON? ANTENNA CONNECTED PROPERLY?
INSTRUMENTS	REPEATERS DON'T OPERATE	SEE "TO POWER PANEL" PREV. PAGE DO TRANSDUCERS NEED CLEANING? SEE INSTRUMENTS MANUAL
WINDLASS	UP/DOWN CONTROLS DON'T OPERATE WINDLASS	SEE "TO POWER PANEL" PREV. PAGE WINDLASS SWITCH AT WINDLASS RESET PANEL ON? IS RESET TRIPPED?
OPTIONAL AUTO PILOT	WON'T OPERATE WON'T HOLD STEADY COURSE CONSTANTLY ADJUSTING HELM	SEE "TO POWER PANEL" PREV. PAGE IS THERE ANY METAL OBJECTS NEAR THE FLUX GATE COMPASS LOCATED IN THE STBD. AFT MAIN BUNK COMP? SENSITIVITY SETTING SET TO HIGH, SEE "AUTO PILOT MANUAL" FOR SENS. ADJ.
BLOWER	WON'T OPERATE	SEE "TO POWER PANEL" PREV. PAGE IS UNIT "ON"?
<p>NOTE: COMPONENT/S FAILURE COULD ALSO BE THE RESULT OF A POOR "GROUND" CONNECTION. SEE GROUNDING SYSTEM FOR GROUND LAYOUT AND GROUND STUD / BUSSBAR LOCATIONS. DUE TO VIBRATION, WEATHER CONDITIONS, ECT. OCCASIONAL INSPECTION, CLEANING AND TIGHTENING OF THESE TERMINALS (BY QUALIFIED PERSONELL) MAY BE NECESSARY.</p>		



CHARGE CIRCUIT FROM ALTERNATOR (CHARGES BACK THRU STARTER)

2GA. YELLOW

12V. POS. TO ENGINE STARTER

2GA. RED

6GA. ORANGE & RED

BATTERY SELECTOR SWITCH PANEL

(RESET)

(RESET)

BILGE

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GROUND TO ENGINE

50A D.C. MAIN

LOAD

5A PANEL LIGHTS

20A CABIN LIGHTS

10A STEREO

15A REFRIGERATOR

5A TANK INDIC.

10A WATER PRES.

20A MACERATOR

RED

LOAD

5A ANCHOR LT.

5A STEAM. LT.

10A RUNN. LIGHTS

5A L.P. GAS

10A VHF RADIO

5A INSTRUMENTS

5A WINDLASS

15A AUTO PILOT

10A BLOWER

6GA. YELLOW

GROUND BUSS BAR

(LOCATED BEHIND DISTRIBUTION PANEL)

6GA. YELLOW

GROUND BUSS BAR

(LOCATED BEHIND DISTRIBUTION PANEL)

6GA. YELLOW

GROUND BUSS BAR

(LOCATED BEHIND DISTRIBUTION PANEL)

6GA. YELLOW

GROUND BUSS BAR

(LOCATED BEHIND DISTRIBUTION PANEL)

6GA. YELLOW

GROUND BUSS BAR

(LOCATED BEHIND DISTRIBUTION PANEL)

6GA. YELLOW

GROUND BUSS BAR

(LOCATED BEHIND DISTRIBUTION PANEL)

6GA. YELLOW

GROUND BUSS BAR

(LOCATED BEHIND DISTRIBUTION PANEL)

6GA. YELLOW

GROUND BUSS BAR

(LOCATED BEHIND DISTRIBUTION PANEL)

POSITIVE LEAD TO LOAD SIDE OF BREAKER

V.H.F. WIRING (TYP. FOR ALL 12V. ITEMS)

NEGATIVE LEAD TO GROUND BUSS BAR

TO BILGE FLOAT SW.

TO BILGE PUMP

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HUNTER

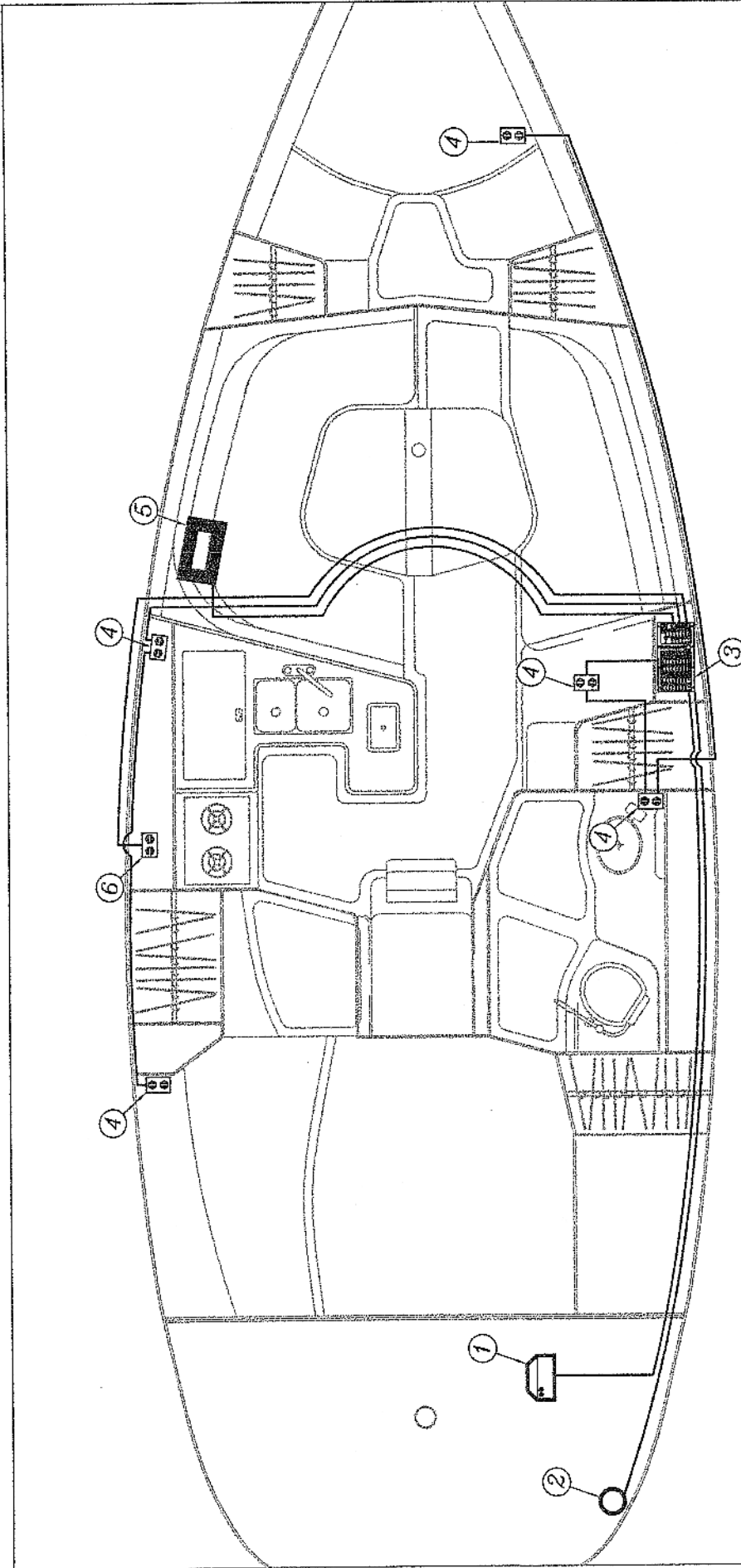
H340 STANDARD A.C. PANEL SCHEMATIC

DATE: 10/22/99

ENGINEERING DEPT.

3408053A-11

NONE



1. STANDARD BATTERY CHARGER / OPTIONAL INVERTER (LOCATED STBD AFT GULLWING LOCKER) (14/3 BOAT CABLE)
2. SHORE POWER INLET (LOCATED @ STBD AFT DECK) (10/3 BOAT CABLE)
3. MAIN DISTRIBUTION PANEL (LOCATED @ NAV STATION) (ALL WIRES LEAD TO THE A.C. SIDE)
4. OUTLETS (NOTE: OUTLET NOT PROVIDED IN THE HEAD ON SOME SELECT OVERSEAS MODELS) (14/3 BOAT CABLE)
5. GFI OUTLETS (LOCATED IN GALLEY (PT) AND @ NAV STATION (STBD)) (14/3 BOAT CABLE)
6. MICROWAVE OUTLET (ONLY OUTLET ON CIRCUIT) (14/3 BOAT CABLE)
7. WATER HEATER (LOCATED UNDER PORT SETTEE AFT CORNER) (14/3 BOAT CABLE)

H340 WATTAGE DEMAND FOR ELECTRICAL EQUIPMENT AND APPLIANCES

NOTE: A PRUDENT MARINER REALIZES THAT THE RESOURCES TO POWER A VESSEL ARE LIMITED. WHEN USING THE ALTERNATE POWER SOURCES ONE SHOULD BE CONSERVATIVE AND AWARE OF THE AMOUNT OF POWER BEING SUPPLIED VERSES POWER BEING DRAWN THIS IS ESPECIALLY IMPORTANT WHEN USING THE INVERTER POWER. CONSULT THE "INVERTER MANUAL" FOR POWER OUTPUT CAPABILITIES.

FIXED APPLIANCES:

SEE MANUALS AND/OR SPECIFICATION SHEETS IN YOUR OWNER'S PACK

PORTABLE APPLIANCES:

BELOW ARE APPROXIMATE EXAMPLES OF THE AMPERAGE DRAW ASSOCIATED WITH CERTAIN ITEMS.

APPLIANCES: / WATTS:

- COFFEE MAKER.....800 - 1,000 WATTS
- FRYING PAN.....1,000 - 2,500 WATTS
- TOASTER.....800 - 1,000 WATTS
- FAN.....75 - 300 WATTS
- RADIO.....60 - 150 WATTS
- TV.....250 - 600 WATTS
- HOT PLATE.....800 - 1,200 WATTS
- HAIR DRYER.....700 - 1,100 WATTS
- SHAVER.....50 - 100 WATTS
- CLOCK.....25 - 50 WATTS
- BLENDER.....250 - 350 WATTS
- TOASTER OVEN.....1,250 - 1,700 WATTS

ALTERNATE POWER SOURCES: / PROVIDED WATTS:

- SMALLER MODEL INVERTER.....1,000 WATTS (THIS MODEL ON YOUR BOAT)
- LARGER MODEL INVERTER.....2,000 WATTS
- SMALLER MODEL GENERATOR.....5,500 WATTS
- LARGER MODEL GENERATOR.....8,000 WATTS
- SHORE POWER (PER INLET).....3,500 WATTS

EXAMPLE: TV (250-600)+ TOASTER (800-1,000)+ HAIR DRYER (700-1,100) = TOTAL (1,750-2,700) THUS, IF THE WATTS BEING USED EXCEEDS THE WATTS BEING PRODUCED, THEN SOME OF THE ITEMS IN USE WILL NOT BE FUNCTIONAL. AGAIN, IT IS IMPORTANT TO BE AWARE OF THE AMPERAGE DRAW VERSUS THE AMPERAGE OUTPUT AT ALL TIMES.

Form ID: H340 WATTAGE DEMAND INFORMATION

FORM NO. 34063A-13

ISSUED BY: ENGINEERING DEPT.

DATE: 1/19/00

REVISION: NONE

File format tables attached to each HUNTER DEPT. CAP. file posted 1/19/00



SECTION 63B...OPTIONAL AIR CONDITIONING SYSTEMS

BASIC OPERATING INSTRUCTIONS:

- ① CONNECT SHORE POWER CORD
- ② CHECK AIR COND. SEA STRAINER, (MAIN BILGE COMP.) CLEAN IF NECESSARY
- ③ OPEN RAW WATER PICKUP SEACOCK MAIN BILGE COMP.
- ④ OPEN RAW WATER DISCHARGE SEACOCK LOWER AFT VANITY CABINET
- ⑤ TURN ON A.C. MAIN BREAKER ON A.C. DISTRIBUTION PANEL
- ⑥ TURN ON AIR COND. BREAKER
- ⑦ TURN ON UNIT AT E.C.U. (ENVIRONMENT CONTROL UNIT) DISPLAY PANEL AND SET TEMP.

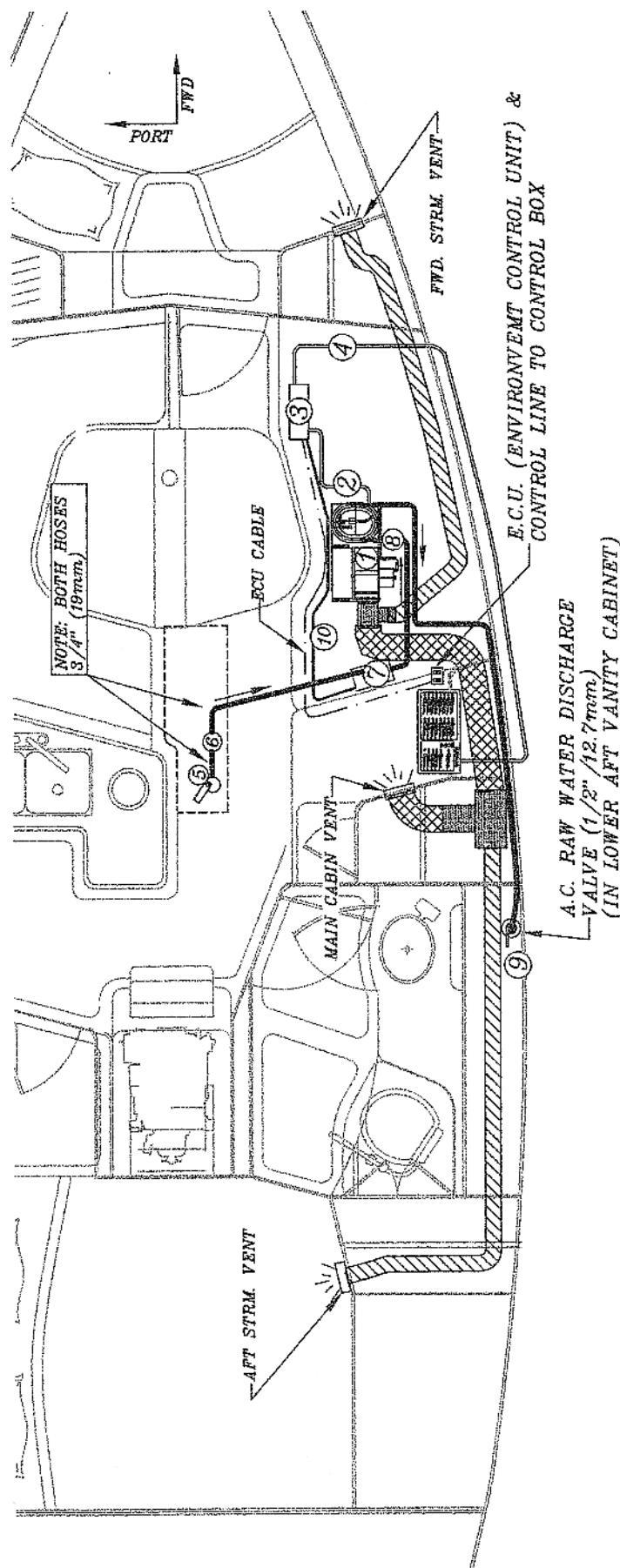
NOTE:

WHEN USING AIR CONDITIONING SYSTEM WITH OTHER APPLIANCES
"POWER UP" THE AIR CONDITIONING FIRST.

IF THERE IS NO POWER AT PANEL WHEN CONNECTED
TO SHORE POWER, CHECK MAIN BREAKER INSIDE STARBOARD
AFT COCKPIT LOCKER ON BATTERY SWITCH PANEL
(ON SELECT 220 V. MODELS A.C. BREAKER IS NEXT TO BATTERY SWITCH PANEL)

SEE AIR CONDITIONING MANUAL FOR DETAILED OPERATING /
PROGRAMMING / TROUBLESHOOTING INSTRUCTIONS

SAVING TIME
H340 OPTIONAL AIR COND. OPER. INST
FORM NO. 3-408063B-1 REVISION NO. NONE
DATE 2/18/98
ENGINEERING DEPT.
HUNTERC



- ① AIR COND. UNIT
- ② CONTROL LINE FROM CONTROL BOX TO A.C. UNIT
- ③ CONTROL BOX
- ④ 10/3 POWER LEAD FROM PANEL TO CONTROL BOX
- ⑤ RAW WATER PICKUP
- ⑥ RAW WATER SEA STRAINER
- ⑦ RAW WATER PUMP
- ⑧ RAW WATER FEED HOSE TO A.C. UNIT, 5/8" (16mm)
- ⑨ RAW WATER HOSE TO HULL DISCHARGE FITTING, 5/8" (16mm)
- ⑩ PUMP POWER LEADS FROM CONTROL BOX

LINETYPES:

- = 3" (76.2mm) VENT HOSE
- = 5" (112mm) VENT HOSE
- = E.C.U. CABLE

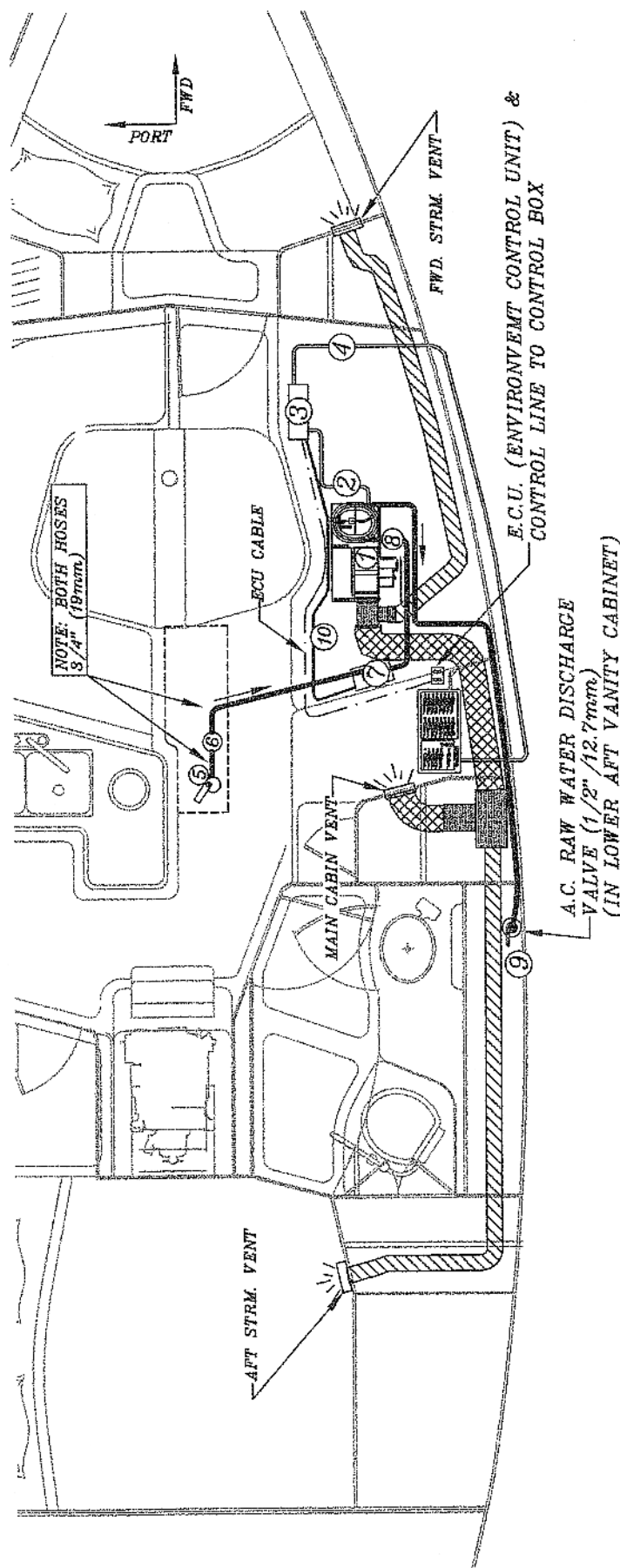
NOTES:

1. THE A.C. DISCHARGE BALL VALVE SHOULD BE LEFT OPEN AT ALL TIMES TO ENSURE PROPER SYSTEM CIRCULATION. IT IS PROVIDED IN CASE OF EMERGENCY ONLY.
2. SEE PAGE 63B-1 OR THE SYSTEM'S OWNERS MANUAL FOR OPERATING INSTRUCTIONS.

HUNTER

1340 OPTIONAL AIR COND. SYSTEM LAYOUT	
DRAWING NO. 34080639-2	REVISION NO. NONE
ENGINEERING DEPT.	DATE 2/18/98

All reserved design information is the property of HUNTER MARINE CORP. for proprietary rights.



- ① AIR COND. UNIT
- ② CONTROL LINE FROM CONTROL BOX TO A.C. UNIT
- ③ CONTROL BOX
- ④ 10/8 POWER LEAD FROM PANEL TO CONTROL BOX
- ⑤ RAW WATER PICKUP
- ⑥ RAW WATER SEA STRAINER
- ⑦ RAW WATER PUMP
- ⑧ RAW WATER FEED HOSE TO A.C. UNIT, 5/8" (16mm)
- ⑨ RAW WATER HOSE TO HULL DISCHARGE FITTING, 5/8" (16mm)
- ⑩ PUMP POWER LEADS FROM CONTROL BOX

- LINETYPES:
- = 3" (76.2mm) VENT HOSE
 - = 5" (112mm) VENT HOSE
 - = E.C.U. CABLE

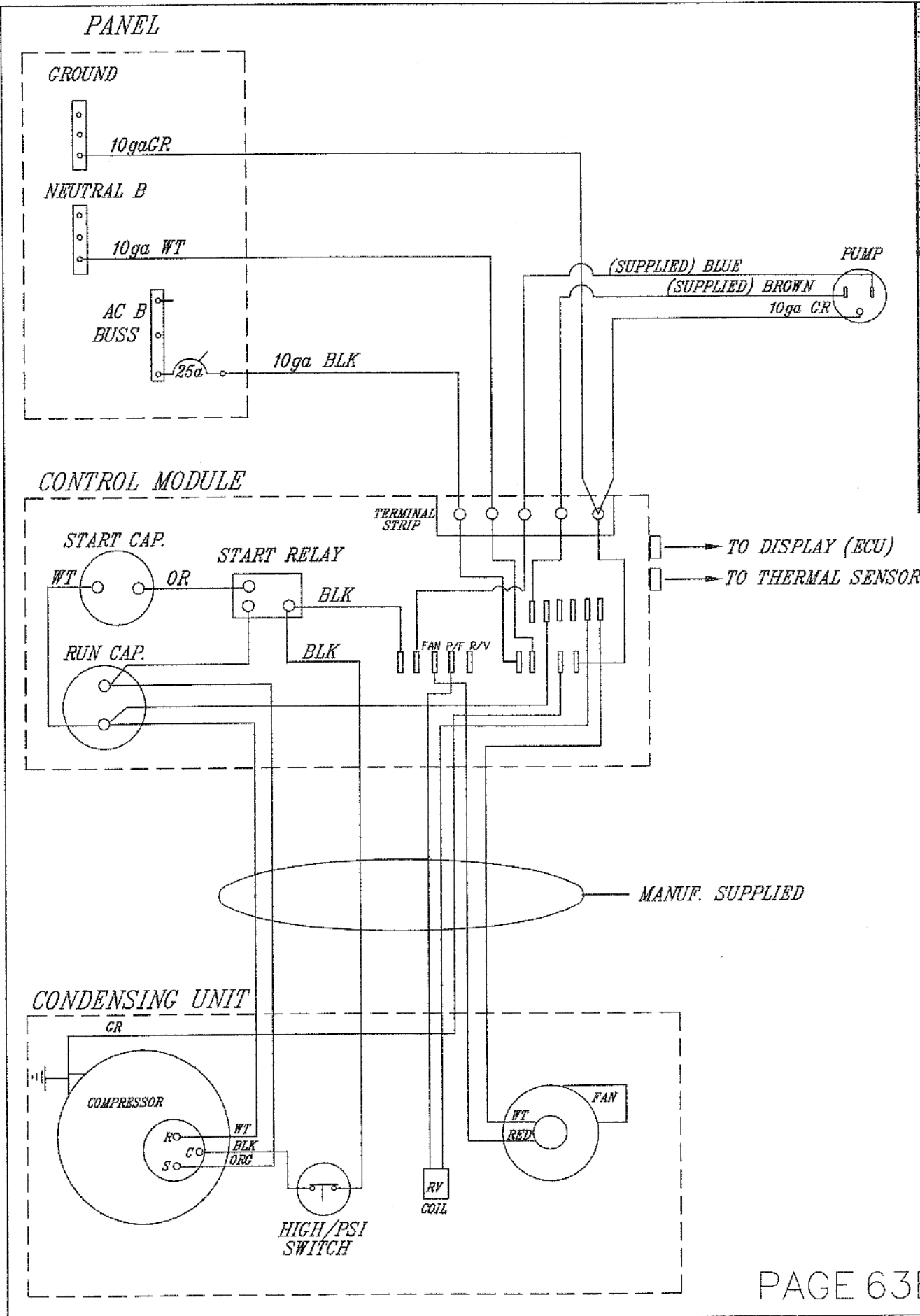
NOTES:

1. THE A.C. DISCHARGE BALL VALVE SHOULD BE LEFT OPEN AT ALL TIMES TO ENSURE PROPER SYSTEM CIRCULATION. IT IS PROVIDED IN CASE OF EMERGENCY ONLY.
2. SEE PAGE 63B-1 OR THE SYSTEM'S OWNERS MANUAL FOR OPERATING INSTRUCTIONS.

HUNTERA

This document describes functions for each HUNTERA VENT ORF. Its symbols refer to:

1/340 OPTIONAL AIR COND. SYSTEM LAYOUT	
FIGURE NO. 3-08063B-2	REVISION NO. NONE
ENGINEERING DEPT.	DATE 2/18/98



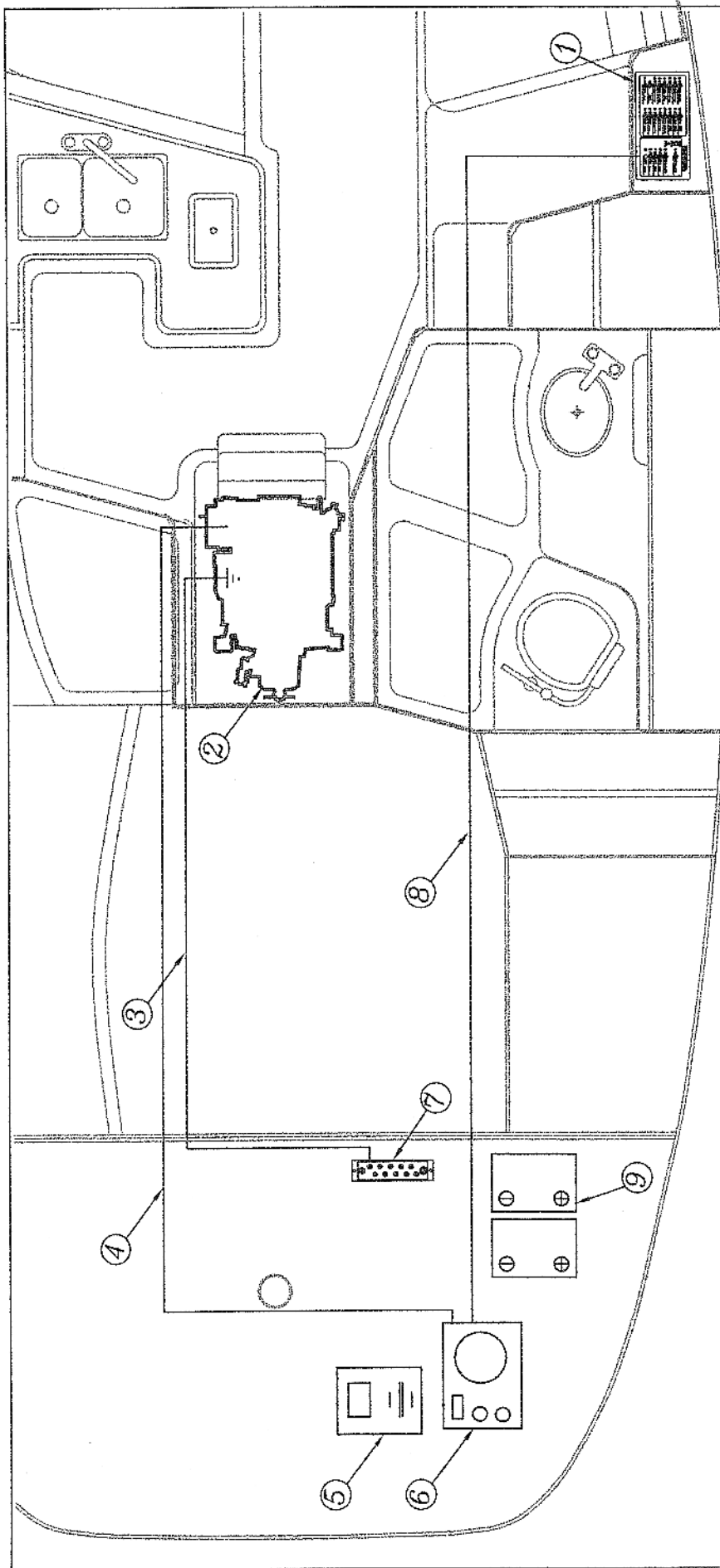
SECTION 63C...BATTERY CHARGING SYSTEM

BASIC OPERATING INSTRUCTIONS:

- ① CONNECT SHORE POWER TO DOCKSIDE SUPPLY AND SHORE POWER INLET ON STERN OF BOAT STBD. SIDE
- ② TURN ON "A.C. MAIN" BREAKER
- ③ TURN ON "BATTERY CHARGER" BREAKER

NOTE:

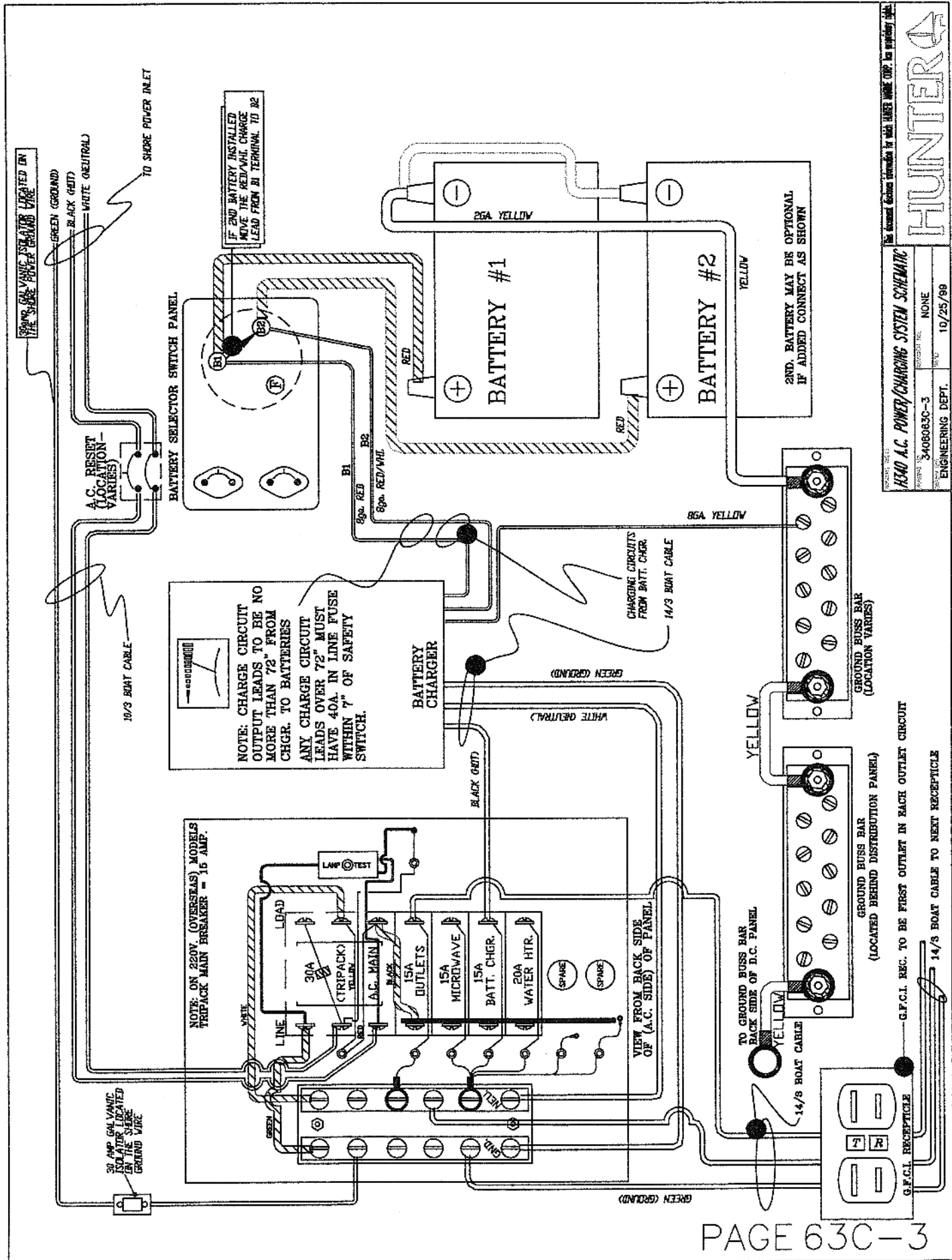
CHECK FOR CORRECT FLUID LEVEL IN BATTERIES PRIOR TO USING CHARGER / OPT INVERTER.
USING THE ENGINE ALTERNATOR AS A CHARGING SOURCE WILL SIGNIFICANTLY REDUCE THE
DRAIN ON THE HOUSE / START BATTERIES.



MAIN DISTRIBUTION PANEL

1. ENGINE
2. FROM GROUND BUSS BAR TO ENGINE GROUND
3. FROM BATTERY SWITCH TO ENGINE STARTER
4. BATTERY CHARGER / OPT. INVERTER
5. BATTERY SELECTOR SWITCH PANEL
6. GROUND BUSS BAR
7. CHARGER / OPT. INVERTER POWER LEADS FROM PANEL 110 V.A.C. (220 V.A.C. ON SOME SELECT OVERSEAS MODELS)
8. START / HOUSE BATTERIES
9. NOTES: SHORE POWER RUN NOT SHOWN FOR CLARITY. SEE PAGES 63A-5 AND 6 FOR FURTHER INFORMATION. ALSO SEE NEXT PAGE FOR SCHEMATICS.

NOTES: SHORE POWER RUN NOT SHOWN FOR CLARITY. SEE PAGES 63A-5 AND 6 FOR FURTHER INFORMATION. ALSO SEE NEXT PAGE FOR SCHEMATICS.



HUNTER

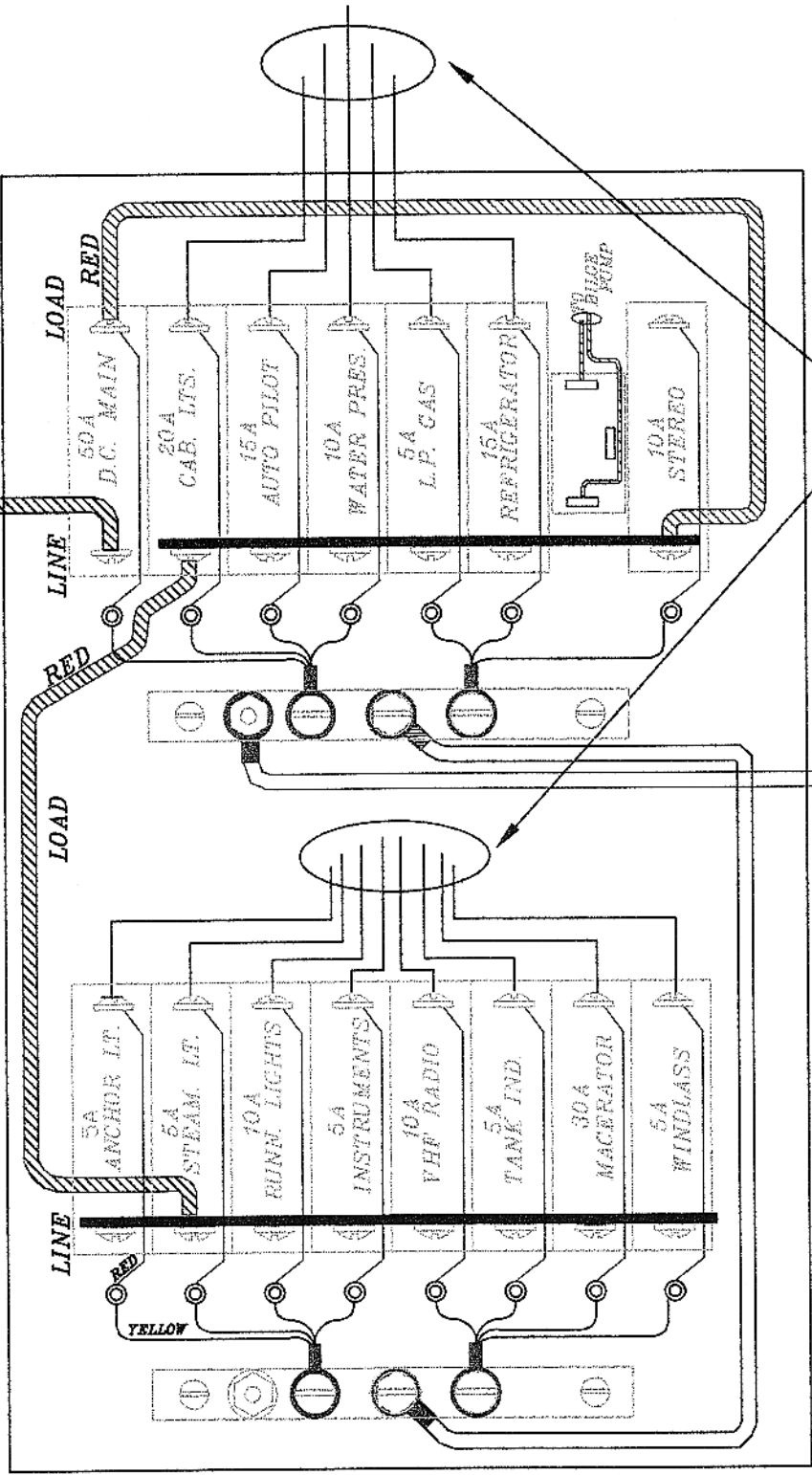
14340 A.C. POWER/CHARGING SYSTEM SCHEMATIC

REVISED TEL. NONE

REV. 10/25/99

ENGINEERING DEPT.

6CA. ORANGE & RED 12V. POS. FROM BATTERY
SELECTOR SWITCH PANEL ("F" TERMINAL)

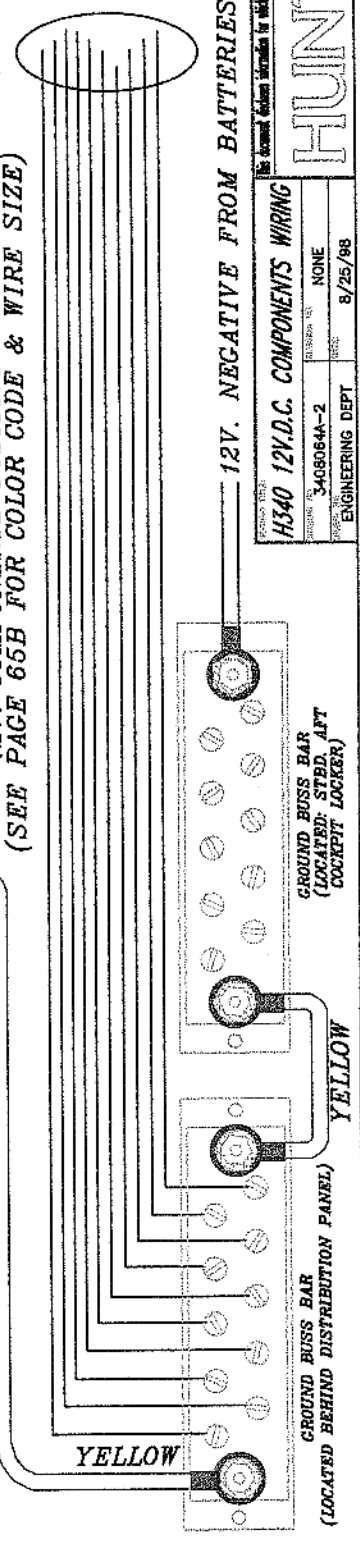


VIEW FROM BACK SIDE
OF (12 V.D.C.) PANEL

12V. COMPONENT POSITIVE LEADS
(SEE PAGE 65B FOR COLOR CODE & WIRE SIZE)

12V. COMPONENT NEGATIVE LEADS

6CA. YELLOW



12V. NEGATIVE FROM BATTERIES

FOR MORE INFO: H340 12V.D.C. COMPONENTS WIRING

FIGURE NO. 34050644-2

REVISION: NONE

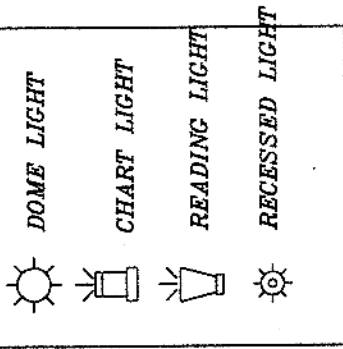
DATE: 8/25/98

ENGINEERING DEPT

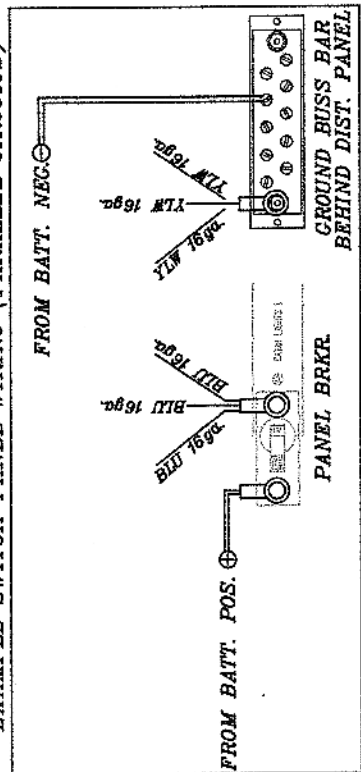
FOR COMMENTS AND INFORMATION TO WHICH NUMBER WOULD APPLY, SEE PRECEDING PAGE.

HUNTER

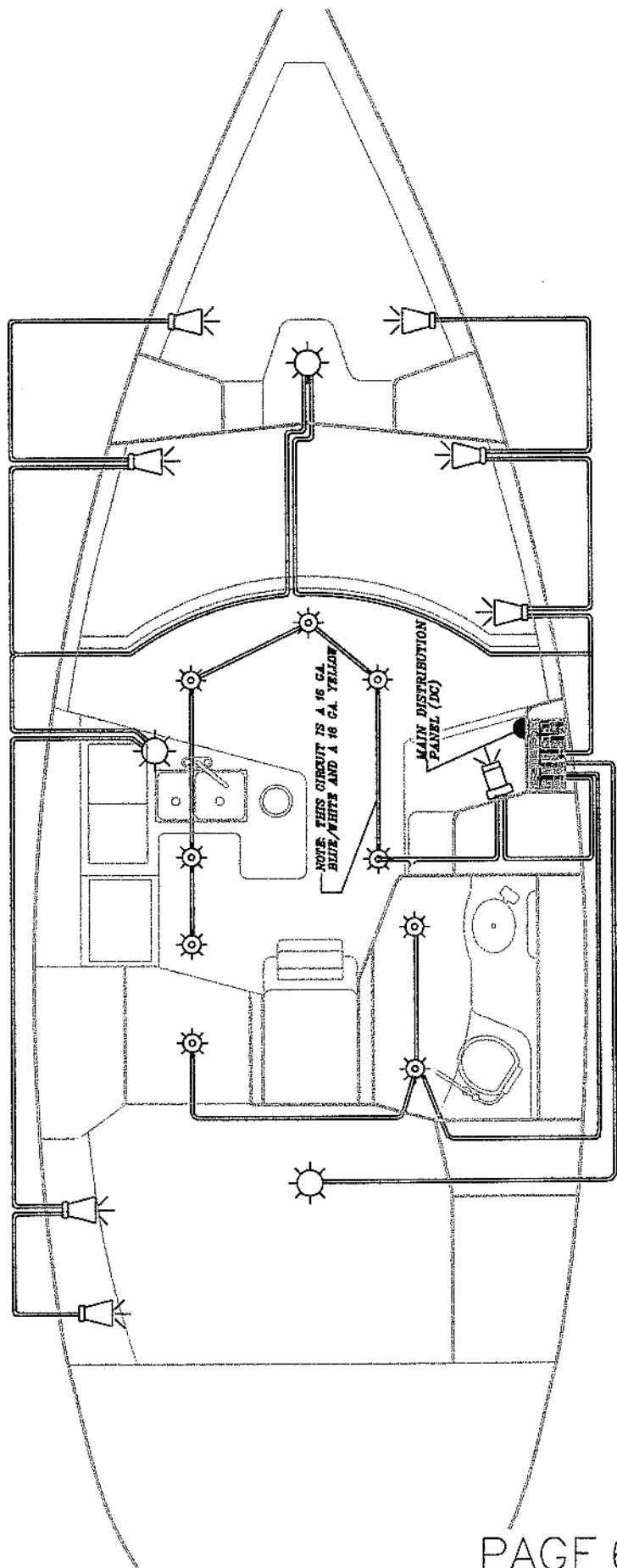
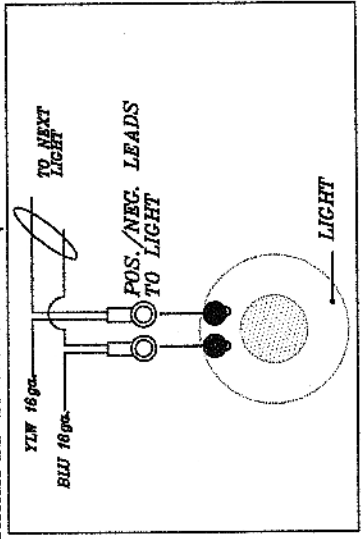
INTERIOR LIGHTS



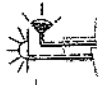
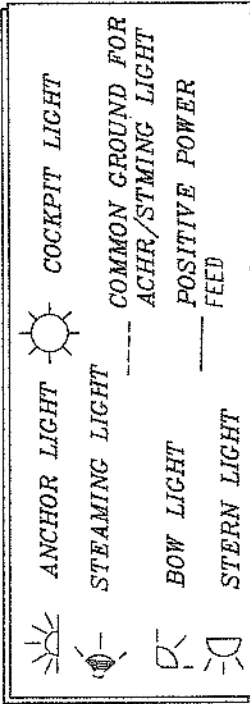
EXAMPLE SWITCH PANEL WIRING (PARALLEL CIRCUITS)



EXAMPLE LIGHT WIRING (PARALLEL CIRCUIT)

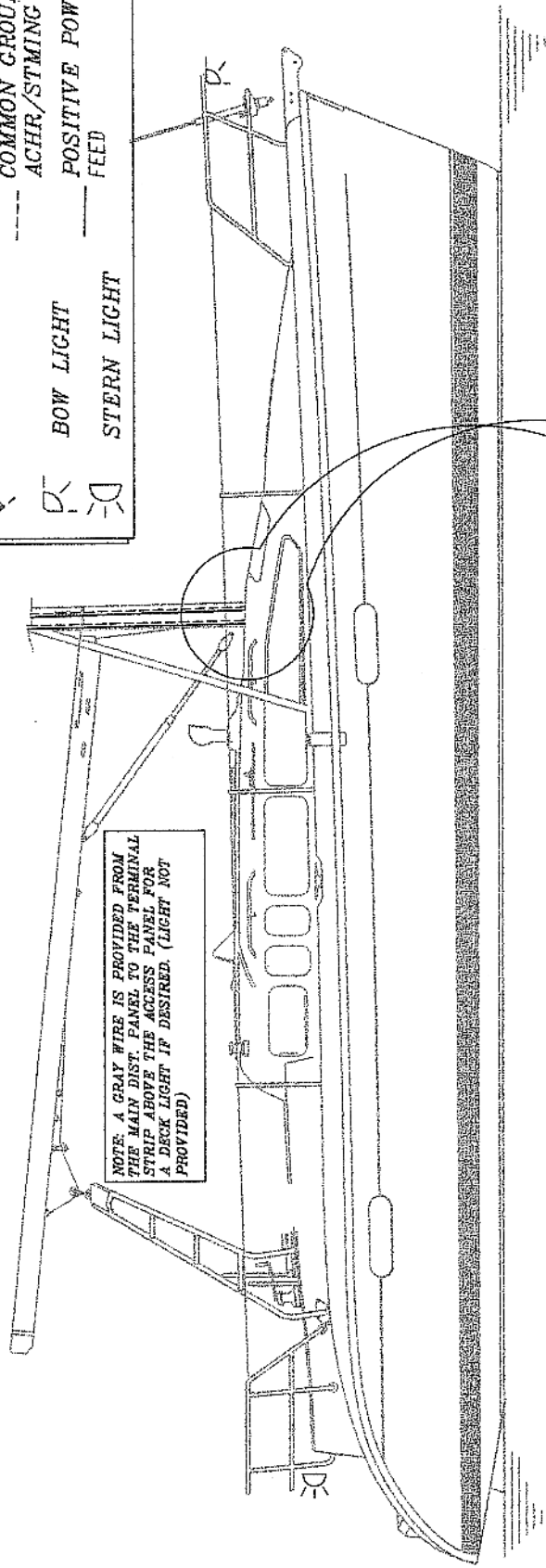


EXTERIOR LIGHTS

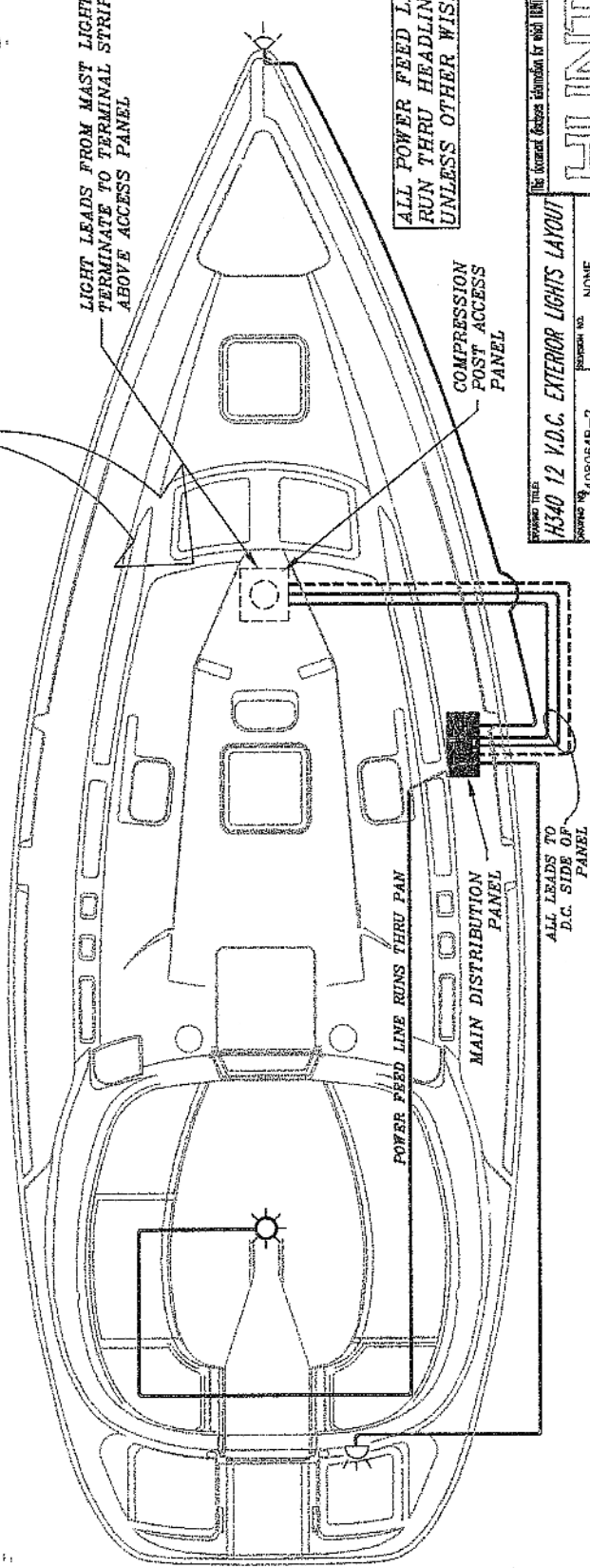


NOTE: ANCHOR & STEAMING LIGHT ARE COMBINED INTO ONE FIXTURE.

NOTE: A GRAY WIRE IS PROVIDED FROM THE MAIN DIST. PANEL TO THE TERMINAL STRIP ABOVE THE ACCESS PANEL FOR A DECK LIGHT IF DESIRED. (LIGHT NOT PROVIDED)



LIGHT LEADS FROM MAST LIGHTS TERMINATE TO TERMINAL STRIP ABOVE ACCESS PANEL



POWER FEED LINE RUNS THRU PAN

MAIN DISTRIBUTION PANEL

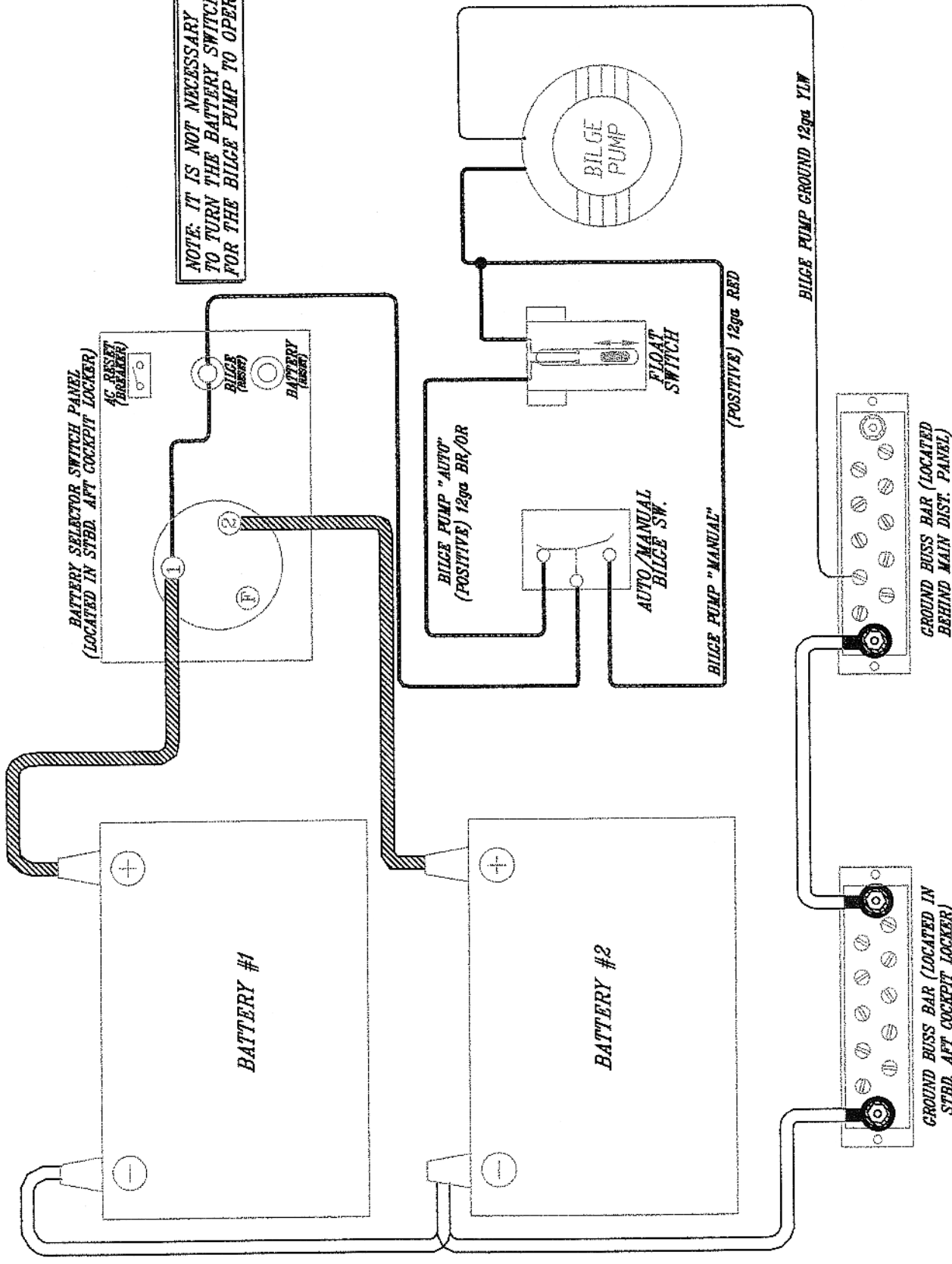
ALL LEADS TO D.C. SIDE OF PANEL

COMPRESSION POST ACCESS PANEL

ALL POWER FEED LINES RUN THRU HEADLINER, UNLESS OTHERWISE NOTED.

PROJECT TITLE: H340 12 V.D.C. EXTERIOR LIGHTS LAYOUT
 DRAWING NO: 4408064B-2
 REVISION NO: NONE
 DATE: 3/2/96
 DESIGNED BY: [blank]
 CHECKED BY: [blank]
 ENGINEERING DEPT. [blank]

HUNTER

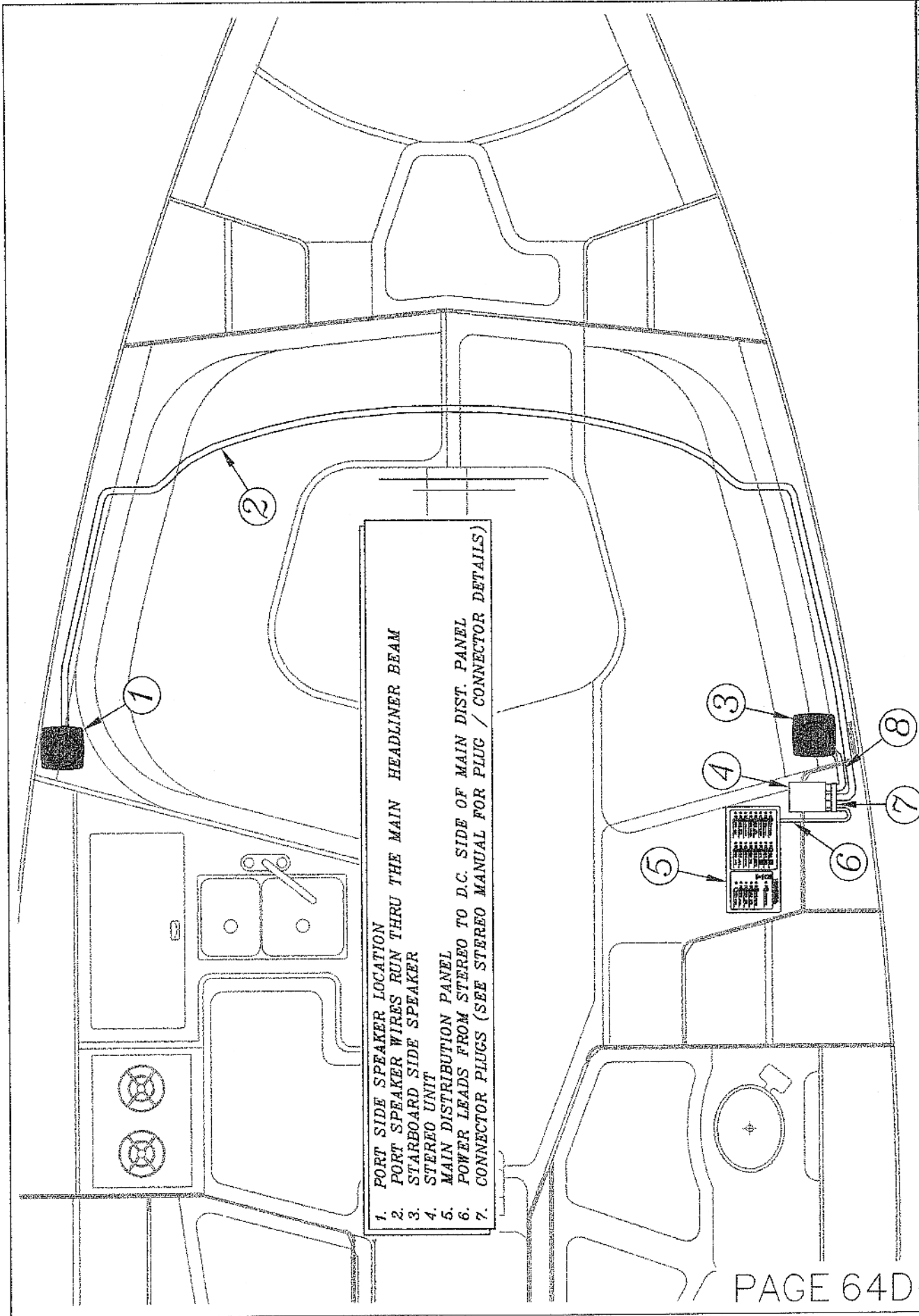


See General Electric literature for Mch 14827 (MRE DCP, See part 1000)

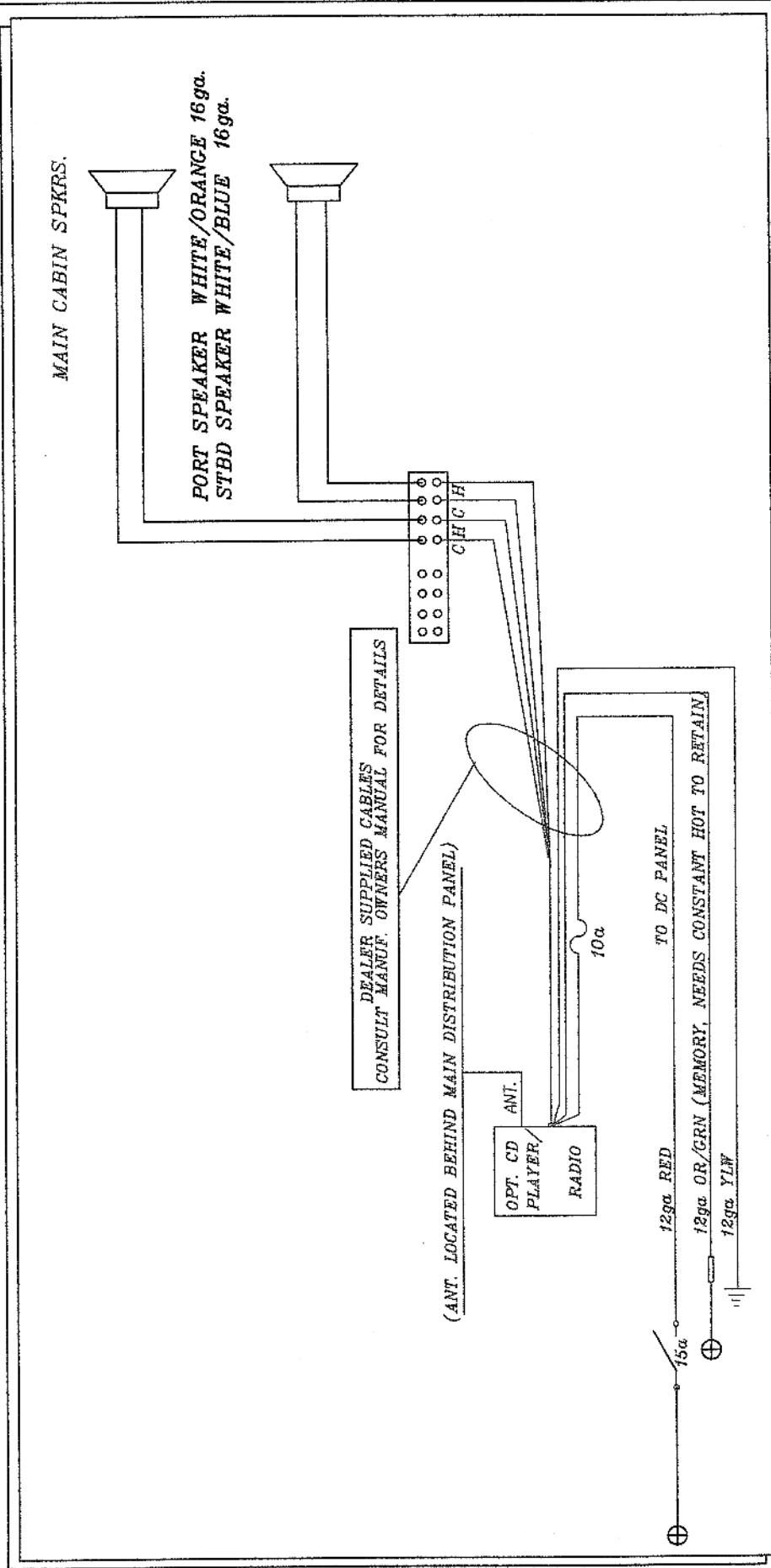
HUNTER

H340 BILGE SYSTEM SCHEMATIC

REVISED BY:	3408094C	DATE:	3/2/98
DESIGNED BY:	NONE		
ENGINEERING DEPT.			



1. PORT SIDE SPEAKER LOCATION
2. PORT SPEAKER WIRES RUN THRU THE MAIN HEADLINER BEAM
3. STARBOARD SIDE SPEAKER
4. STEREO UNIT
5. MAIN DISTRIBUTION PANEL
6. POWER LEADS FROM STEREO TO D.C. SIDE OF MAIN DIST. PANEL
7. CONNECTOR PLUGS (SEE STEREO MANUAL FOR PLUG / CONNECTOR DETAILS)

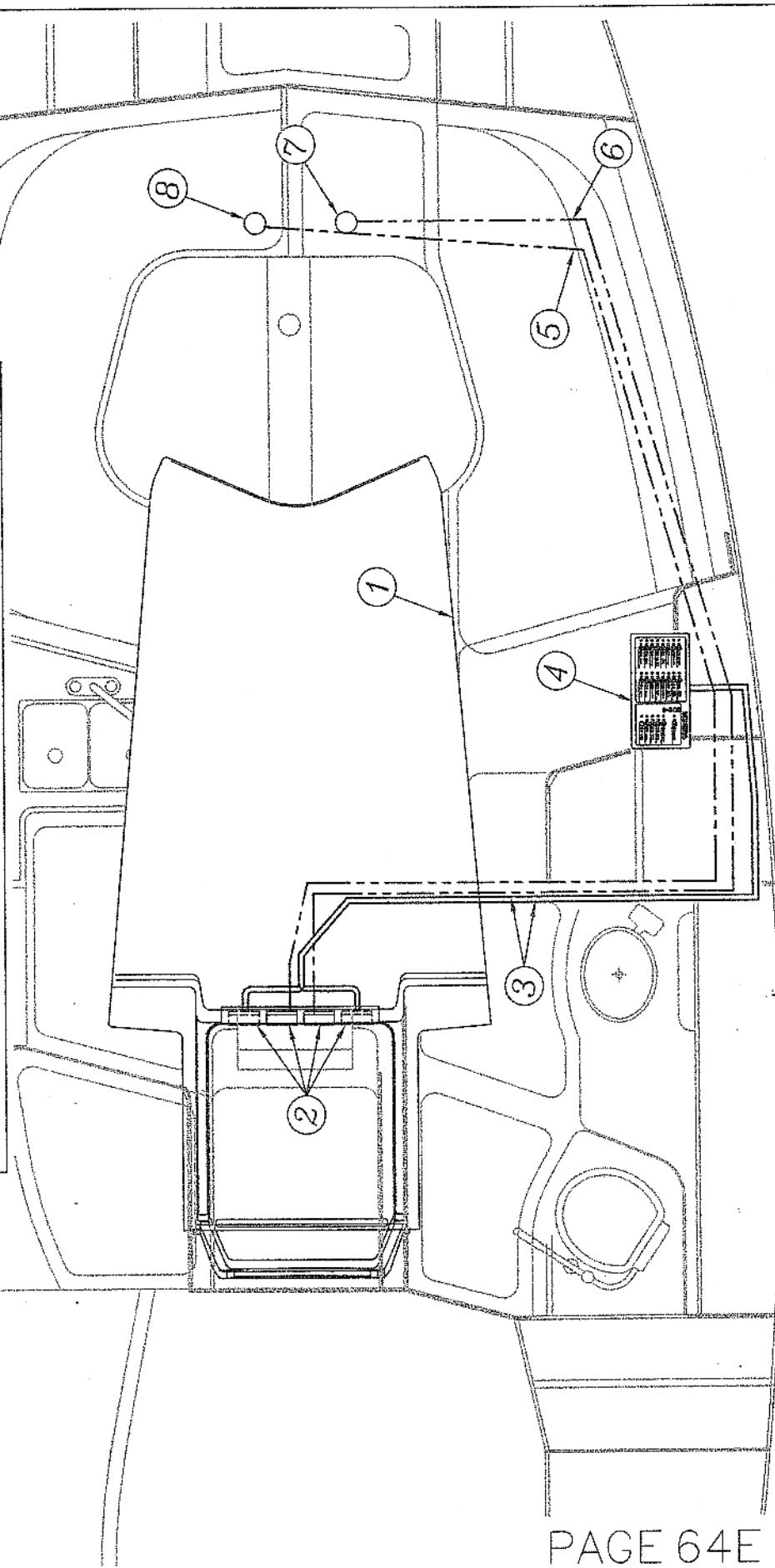


HUNTER

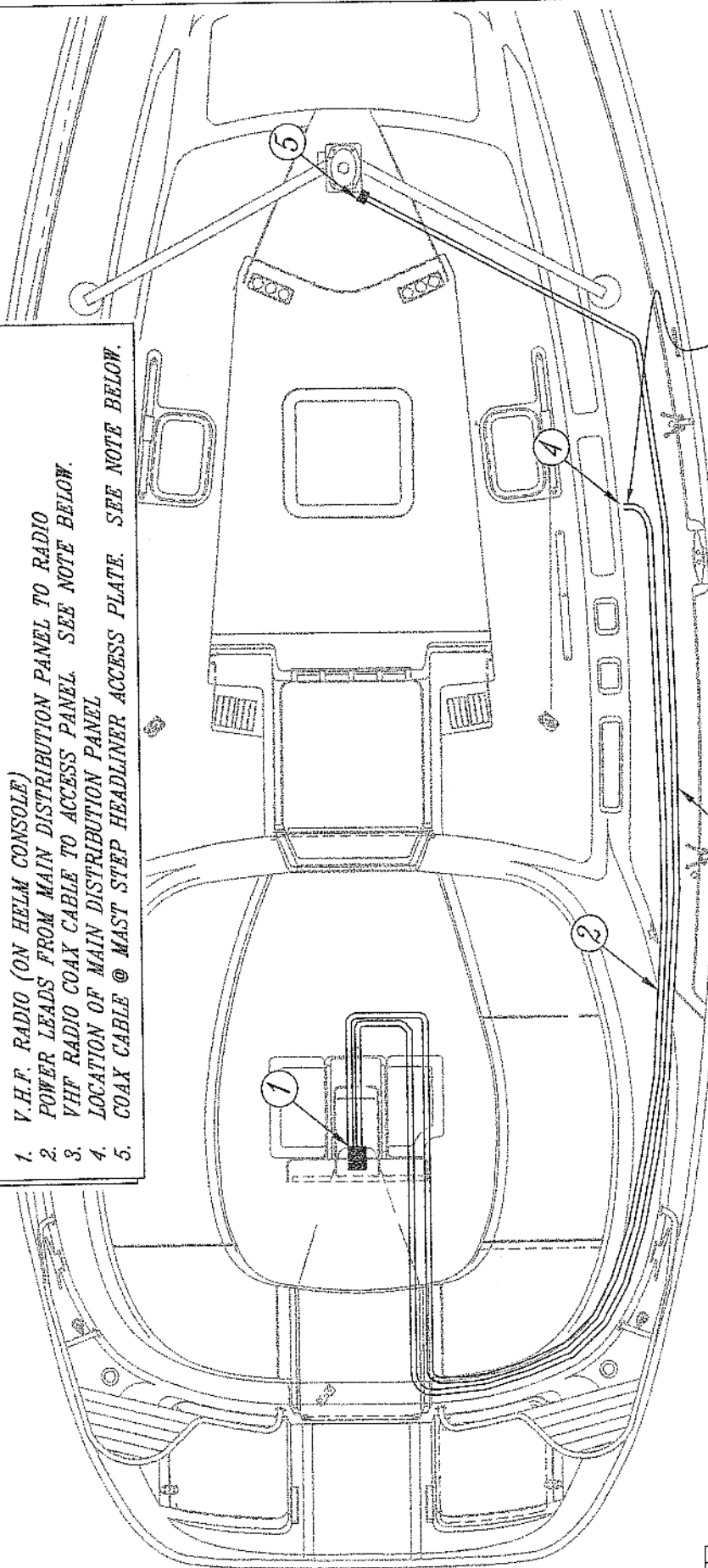
H340 STEREO WIRING SCHEMATIC

REVISION NO.	NONE
ISSUED NO.	3-408064D-2
DATE	10/26/99
ENGINEERING DEPT.	

1. SEAHOOD OUTLINE (DECK PART)
2. INSTRUMENT DISPLAY LOCATION (ON SEAHOOD)
3. POWER LEADS TO MAIN DISTRIBUTION PANEL TO DISPLAY
4. MAIN DISTRIBUTION PANEL
5. CABLE TO KNOT TRANSDUCER DISPLAY
6. CABLE TO DEPTH TRANSDUCER DISPLAY
7. DEPTH TRANSDUCER (LOCATED @ FWD BILGE COMP.)
8. KNOT TRANSDUCER (LOCATED @ PT FWD SETTEE COMP.)



1. V.H.F. RADIO (ON HELM CONSOLE)
2. POWER LEADS FROM MAIN DISTRIBUTION PANEL TO RADIO
3. VHF RADIO COAX CABLE TO ACCESS PANEL. SEE NOTE BELOW.
4. LOCATION OF MAIN DISTRIBUTION PANEL
5. COAX CABLE @ MAST STEP HEADLINER ACCESS PLATE. SEE NOTE BELOW.



COAX CABLE W/CONNECTOR TO ACCESS PANEL ABOVE COMPRESSION POST.
 COAX CABLE CONTINUES THRU AND UP TO TOP OF MAST. LOWER END
 CONNECTS TO END OF CABLE IN ACCESS PANEL. UPPER END CONNECTS TO ANTENNA

LINE RUNS:
 POWER LEADS...FROM MAIN DIST. PANEL DOWN, THEN AFT THRU PAX, UP & AROUND Q-BERTH BULKHEAD, FWD & UP TO RADIO.
 ANTENNA (COAX) LEAD.....FROM MAST STEP. CABLE RUNS THRU HEADLINER AFT INTO COCKPIT LOCKER, THEN FWD. BETWEEN DECK & HEADLINER THEN UP TO RADIO.

OWNER TITLE: **H340 VHF RADIO LAYOUT**

DESIGN NO. 3408054F

REVISION NO. NONE

DATE 3/2/98

ENGINEERING DEPT.

HUNTER

SECTION 64G...REFRIGERATION SYSTEM

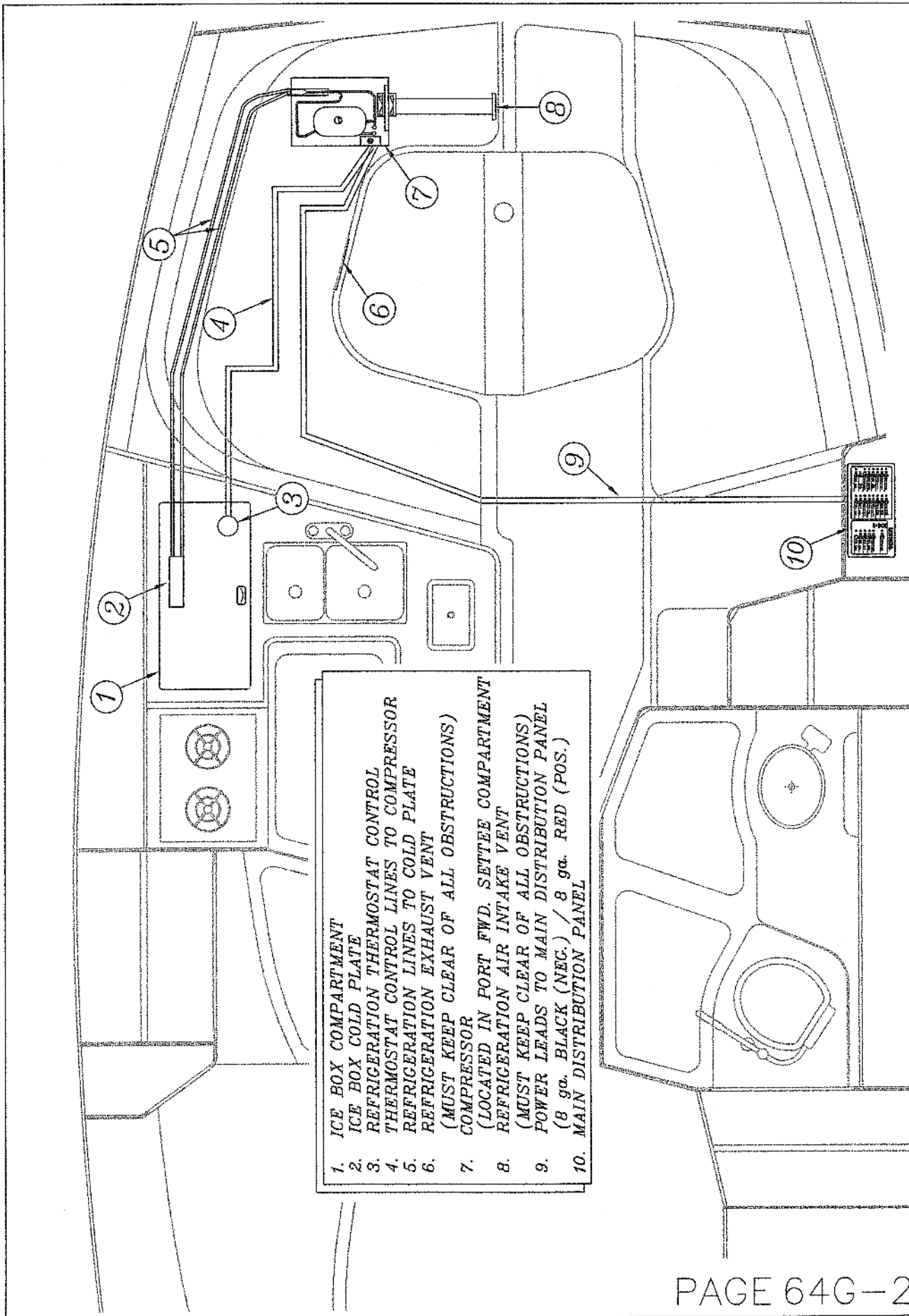
BASIC OPERATING INSTRUCTIONS:

- ① TURN THE BATTERY SELECTOR SWITCH TO (1, 2, OR BOTH)
(LOCATED IN THE STBD AFT COCKPIT LOCKER)
- ② TURN ON MAIN D.C. BREAKER AT MAIN BREAKER PANEL
- ③ TURN ON REFRIGERATION BREAKER
- ④ SET THERMOSTATS TO DESIRED TEMP.

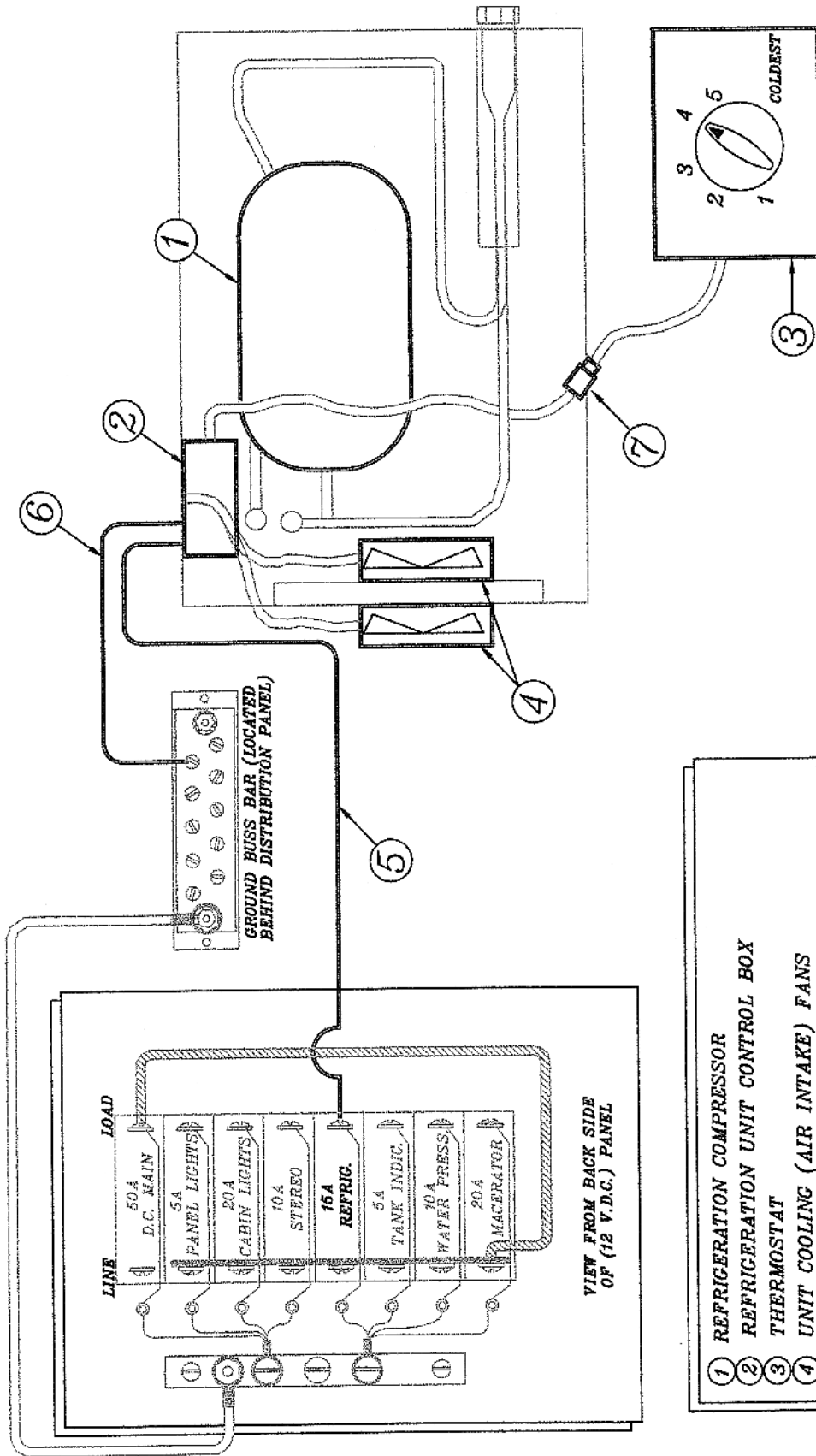
NOTE:

IF LEAVING UNIT ON WHEN AWAY FROM BOAT
BE SURE SHORE POWER CABLES ARE CONNECTED AND
BATTERY CHARGER IS ON TO PREVENT BATTERY DRAIN.

FORWARD TITLE		HUNTER	
13340 REFRIG. (OPTIONAL) OPER. INSTRUCTIONS		The document contains information for which HUNTER MARINE CORP. has proprietary rights.	
FORM NO.	408064G-1	ISSUE NO.	NONE
ISSUED BY	ENGINEERING DEPT.	DATE	2/18/86



1. ICE BOX COMPARTMENT
 2. ICE BOX COLD PLATE
 3. REFRIGERATION THERMOSTAT CONTROL
 4. THERMOSTAT CONTROL LINES TO COMPRESSOR
 5. REFRIGERATION LINES TO COLD PLATE
 6. REFRIGERATION EXHAUST VENT
 (MUST KEEP CLEAR OF ALL OBSTRUCTIONS)
 7. COMPRESSOR
 (LOCATED IN FWD. SETTEE COMPARTMENT
 REFRIGERATION AIR INTAKE VENT
 (MUST KEEP CLEAR OF ALL OBSTRUCTIONS)
 9. POWER LEADS TO MAIN DISTRIBUTION PANEL
 (8 ga. BLACK (NEG.) / 8 ga. RED (POS.)
 10. MAIN DISTRIBUTION PANEL



- ① REFRIGERATION COMPRESSOR
- ② REFRIGERATION UNIT CONTROL BOX
- ③ THERMOSTAT
- ④ UNIT COOLING (AIR INTAKE) FANS
- ⑤ 12V. POSITIVE FROM LOAD SIDE (8CA. RED) OF BREAKER TO REFRIGERATION UNIT
- ⑥ GROUND FROM REFRIGERATION UNIT (8CA. YELLOW) TO GROUND BUSS BAR BEHIND BREAKER PANEL
- ⑦ THERMOSTAT CONNECTOR PLUG

NOTE: SEE REFRIGERATION MANUAL FOR CONTROL BOX HOOKUP DETAILS

H340 REFRIGERATION SCHEMATIC
 PART NO. 3408084G-3
 REVISION NO. NONE
 DATE 3/8/88
 ENGINEERING DEPT.

SECTION 64H...OPTIONAL WINDLASS SYSTEM

BASIC OPERATING INSTRUCTIONS:

LOWERING ANCHOR...

- ① TURN ON BATTERY SWITCH
- ② TURN ON WINDLASS BRKR. ON MAIN D.C. BREAKER PANEL.
- ③ PUSH WINDLASS "DOWN" BUTTON ON FOREDECK AFT OF ANCHOR WELL.

NOTE: "BUMP" SWITCH UNTIL ANCHOR CLEARS ANCHOR ROLLER AND HULL BEFORE LETTING ANCHOR DOWN FREELY.

RAISING ANCHOR....

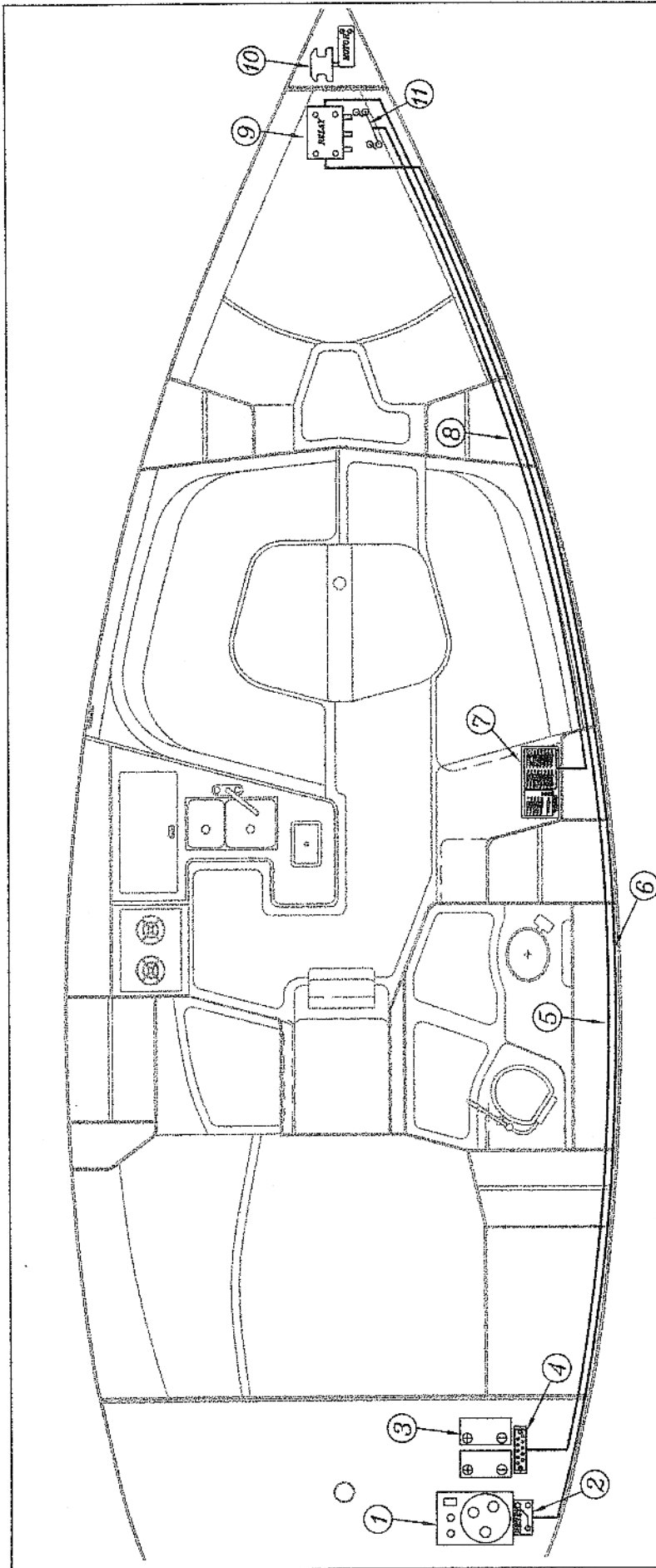
- ① START BOAT ENGINE, THIS WILL ALLOW CONTROL OF BOAT WHEN ANCHOR BECOMES FREE, AS WELL AS REDUCING LOAD ON BATTERY.
- ③ PUSH WINDLASS "UP" BUTTON BEING CAREFUL AS THE ANCHOR APPROACHES THE HULL AND ANCHOR ROLLER. CONTINUE UNTIL THE ANCHOR RESTS IN THE STEMHEAD PROPERLY.

NOTE: IF IT APPEARS THERE IS NO POWER TO THE WINDLASS, CHECK RESET BRKR. IN STBD. AFT COCKPIT LOCKER. IF WINDLASS BECOMES INOPERABLE ELECTRICALLY, A MANUAL WINCH HANDLE IS SUPPLIED, SEE THE WINDLASS MANUAL SUPPLIED IN YOUR OWNERS MANUAL PACKAGE FOR INSTRUCTIONS.

FOR YOUR INFO: This document contains information for which HUNTER WINDLASS (O.P.) has registered a patent.

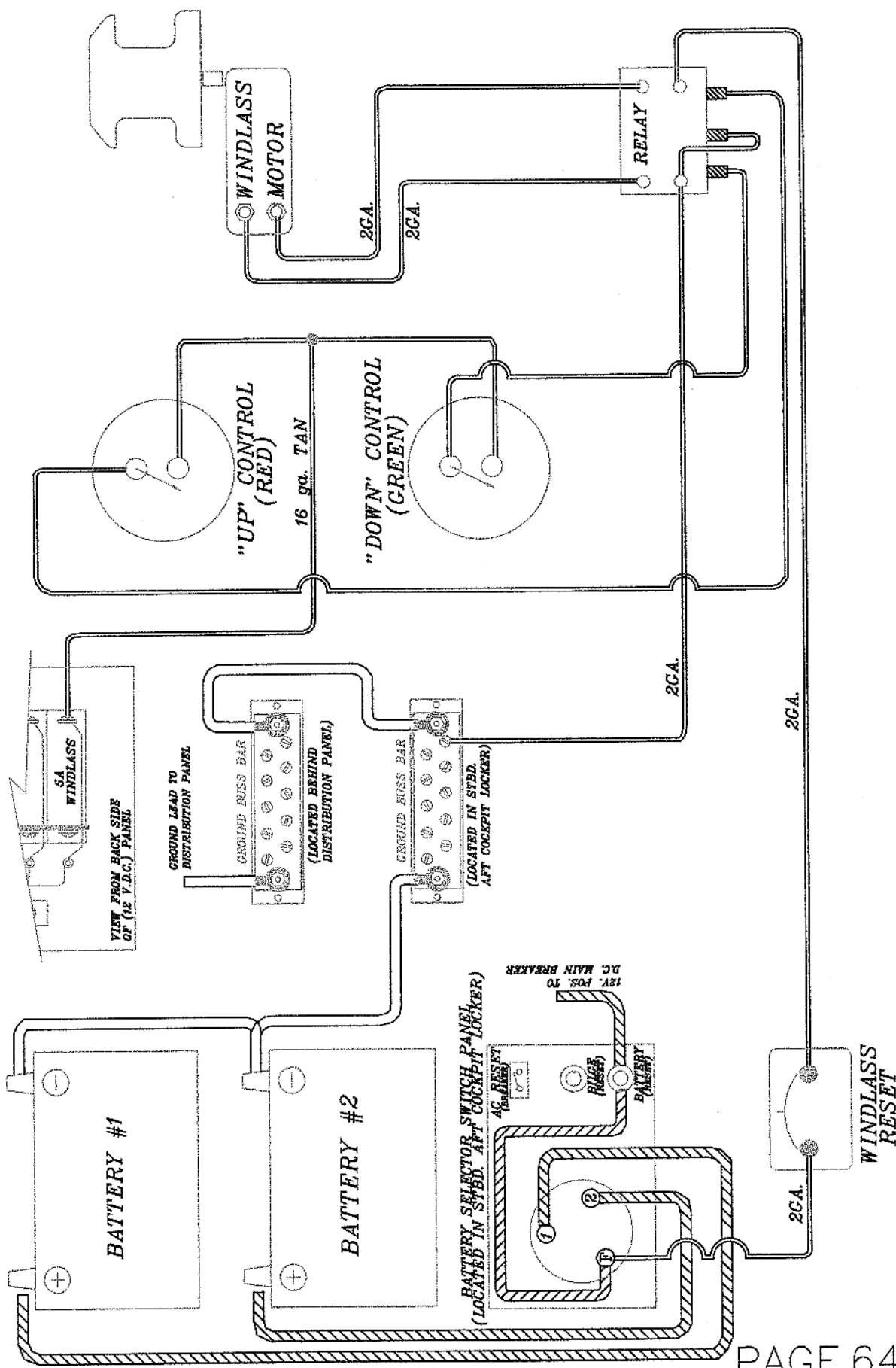
HUNTER WINDLASS (OPTIONAL) OPERATING INST.	
FORM NO. 3408064H-1	REVISION NO. NONE
SHEET NO. ENGINEERING DEPT.	DATE 5/2/86

HUNTER



1. BATTERY SWITCH (LOCATED IN STBD AFT GULLWING LOCKER)
2. OPTIONAL WINDLASS BREAKER (LOCATED NEAR THE BATTERY SWITCH)
3. BATTERIES (LOCATED IN STBD AFT GULLWING LOCKER)
4. GROUND BUSS BAR (LOCATED IN STBD AFT GULLWING LOCKER)
5. GROUND WIRE TO RELAY SWITCH
6. POWER LEAD FROM BREAKER TO RELAY SWITCH
7. MAIN DISTRIBUTION PANEL
8. POWER LEADS TO THE "UP AND DOWN" CONTROL
9. WINDLASS RELAY SWITCH
10. OPTIONAL WINDLASS LOCATION
11. OPTIONAL WINDLASS "UP AND DOWN" CONTROLS

NOTE: SEE FOLLOWING PAGE FOR SCHEMATIC AND WIRE SPECIFICATIONS

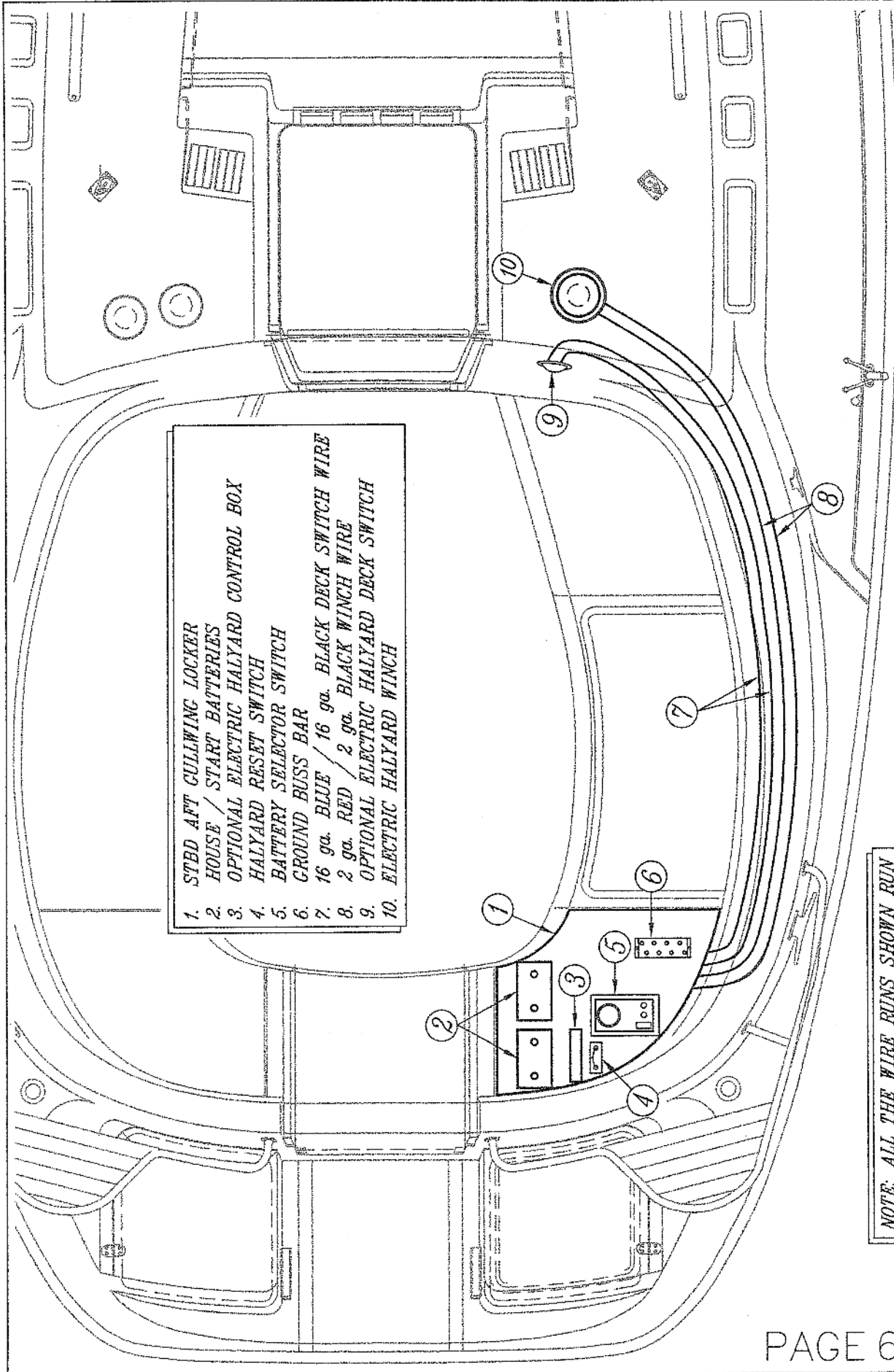


HUNTER
 H340 WINDLASS SCHEMATIC
 PART NO. 340804H-3
 REV. 3/6/88
 ENGINEERING DEPT.
 NONE
 3/6/88

SECTION 64I..OPTIONAL ELEC. HALYARD SYSTEM

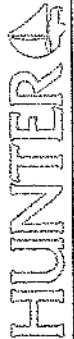
BASIC OPERATING INSTRUCTIONS:

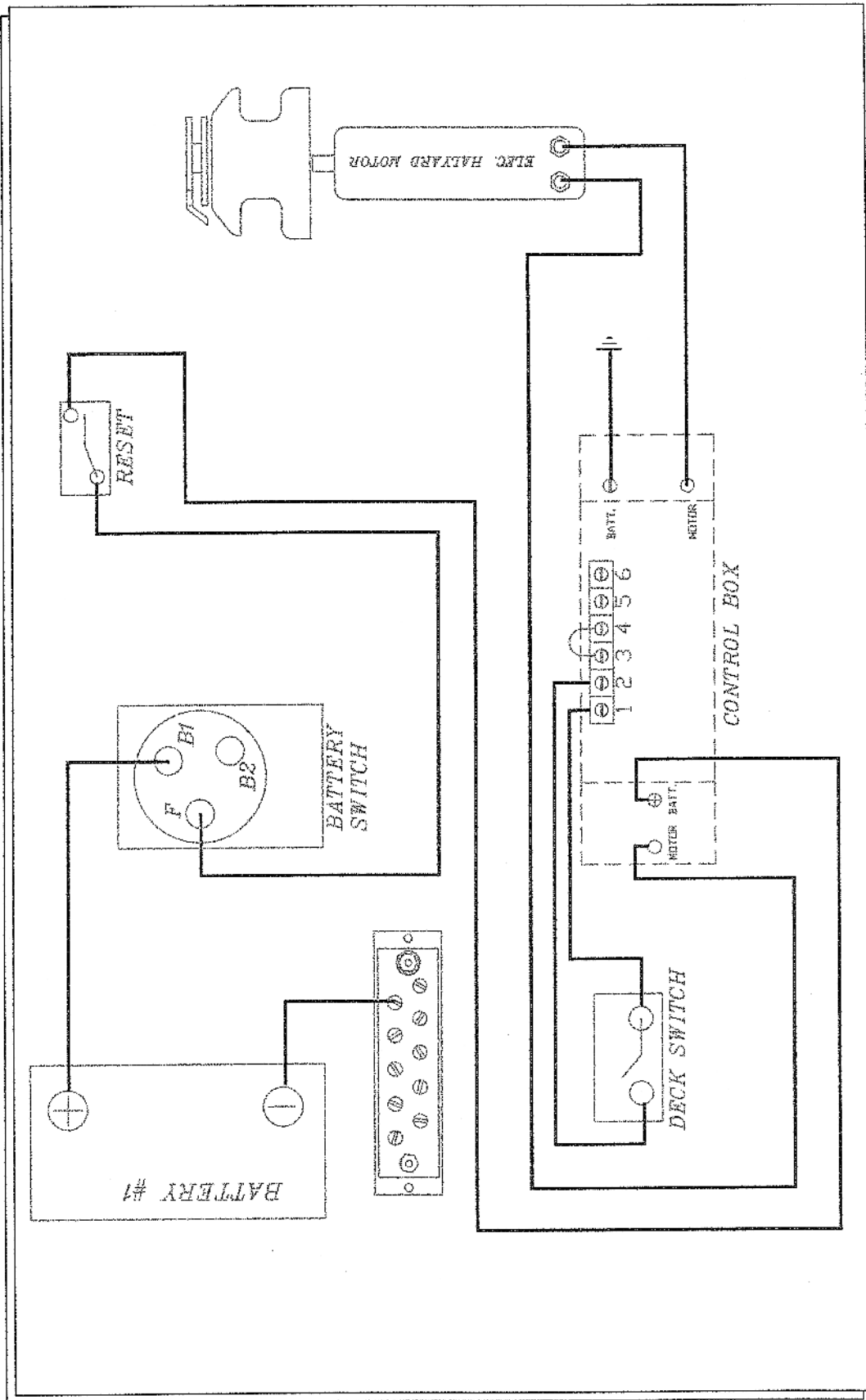
- ① TURN ON "BATTERY" SWITCH
- ② HALYARD SWITCH ON DECK SHOULD NOW OPERATE WINCH

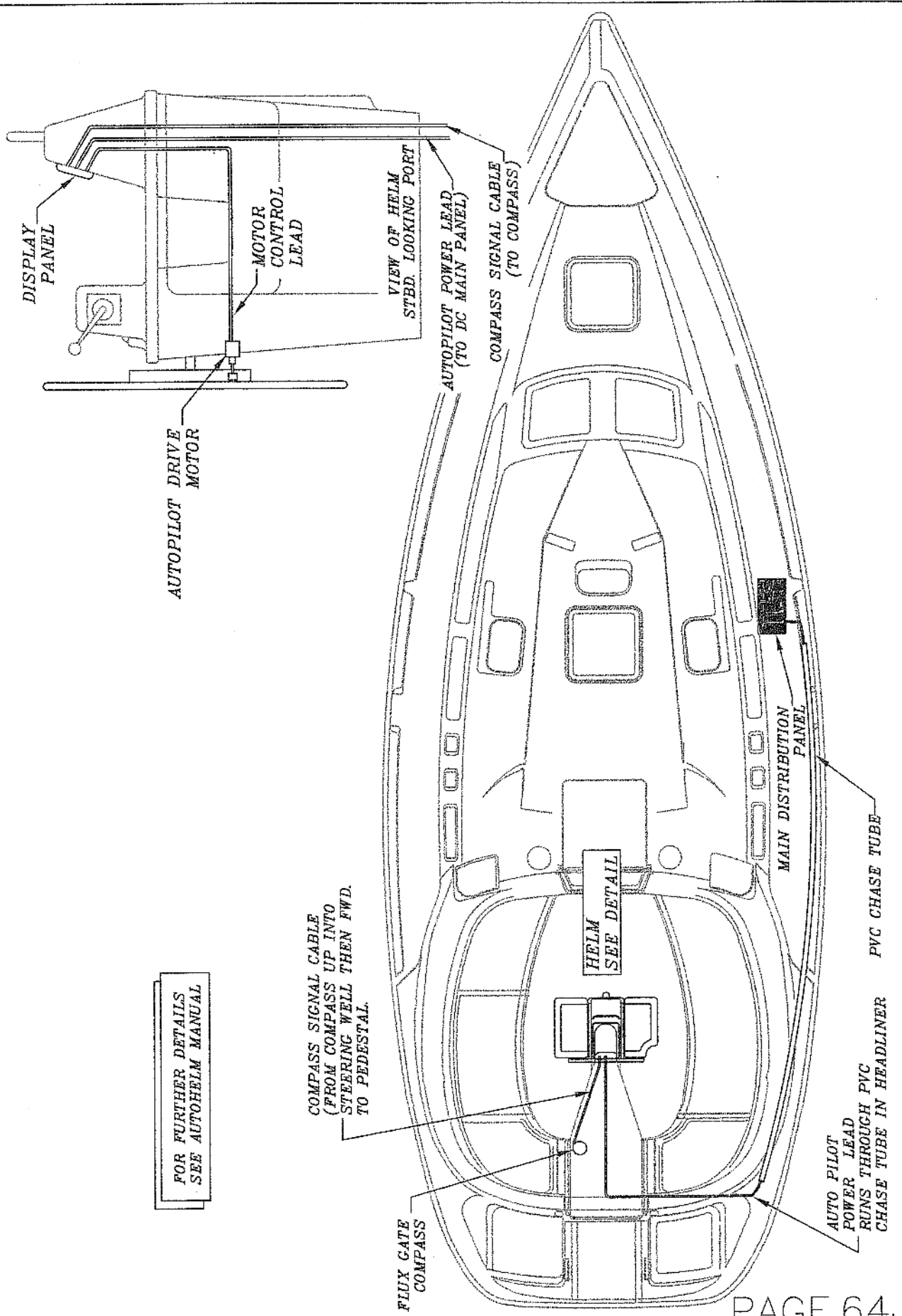


1. STBD AFT CULLWING LOCKER
2. HOUSE / START BATTERIES
3. OPTIONAL ELECTRIC HALYARD CONTROL BOX
4. HALYARD RESET SWITCH
5. BATTERY SELECTOR SWITCH
6. GROUND BUSS BAR
7. 16 ga. BLUE / 16 ga. BLACK DECK SWITCH WIRE
8. 2 ga. RED / 2 ga. BLACK WINCH WIRE
9. OPTIONAL ELECTRIC HALYARD DECK SWITCH
10. ELECTRIC HALYARD WINCH

NOTE: ALL THE WIRE RUNS SHOWN RUN AFT INSIDE THE HEADLINER.
SEE FOLLOWING PAGE FOR SCHEMATIC DETAILS AND WIRE SPECS.





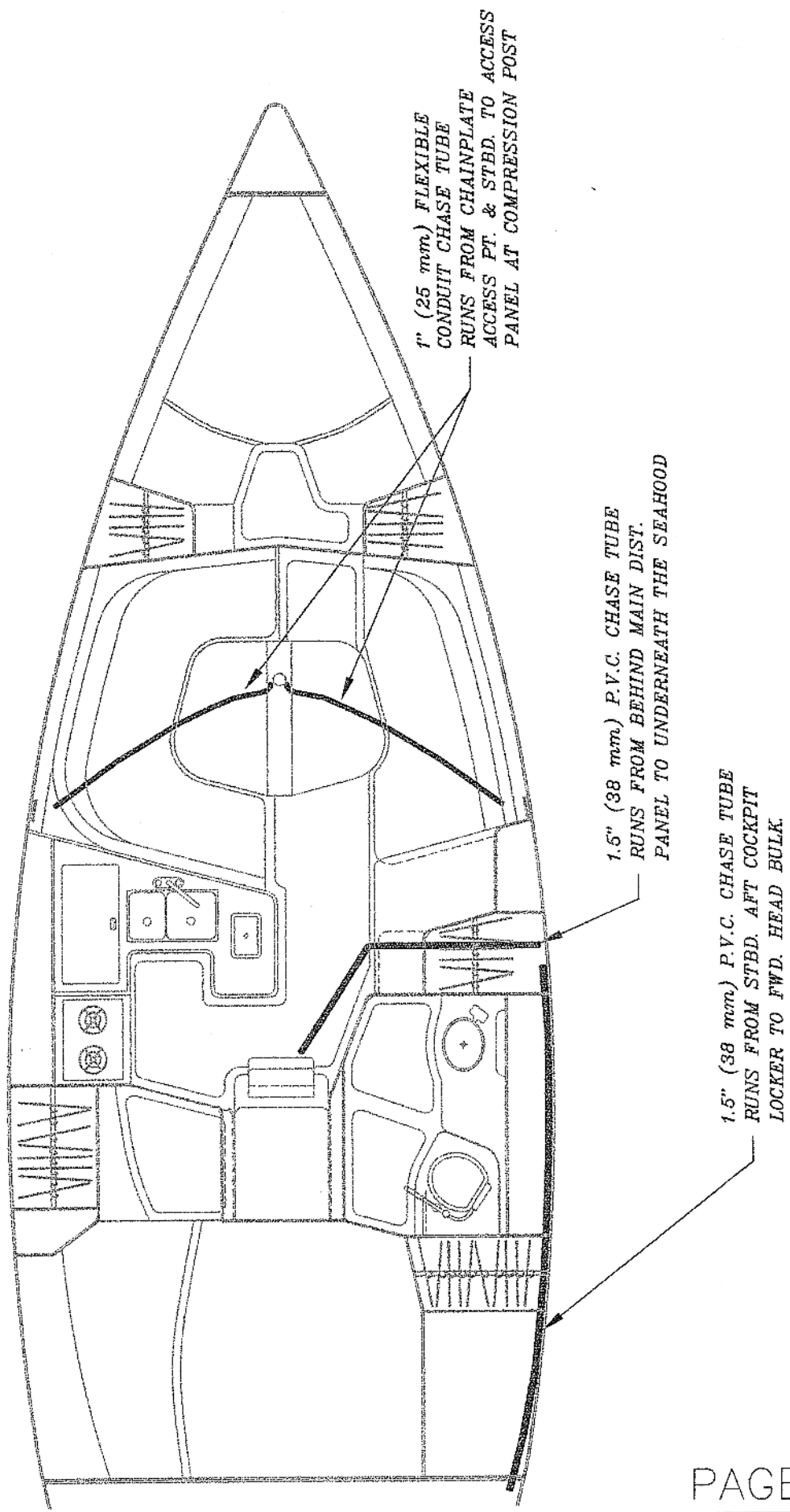


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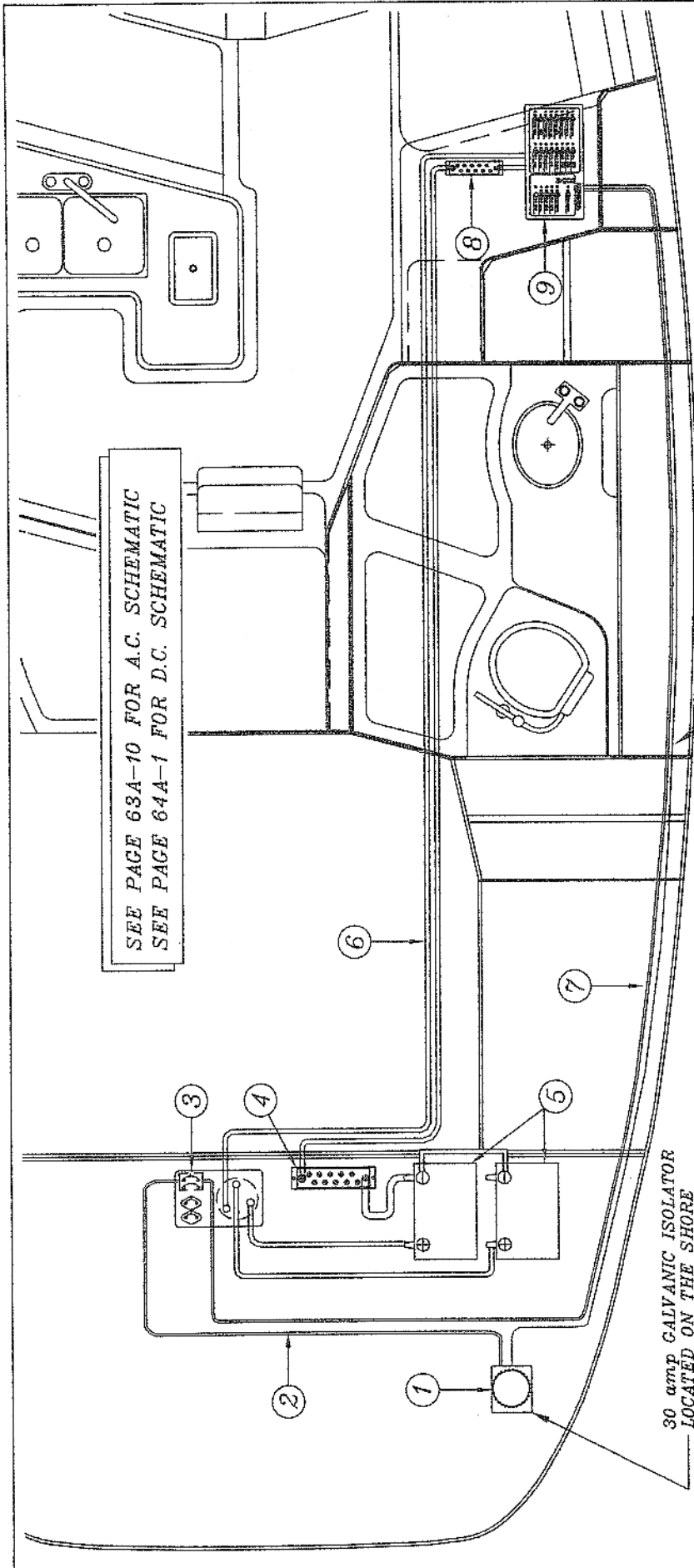
A340 OPTIONAL AUTOPILOT LAYOUT

DESIGN NO. 3408064J	REVISION NO. NONE
DATE 3/3/98	ENGINEERING DEPT.



FORWARD TITLE
H340 WIRE CHASE LOCATION LAYOUT
REVISION NO. NONE
DATE 3/9/98
ENGINEERING DEPT.

SEE DOCUMENT FOR MORE INFORMATION FOR HUNTER MARINE CORP. OR PROPRIETARY TYPE.
HUNTER



SEE PAGE 63A-10 FOR A.C. SCHEMATIC
SEE PAGE 64A-1 FOR D.C. SCHEMATIC

NOTE, THESE WIRES ARE AS FOLLOWS:
* HOT (BLACK) & NEUTRAL (WHITE)
FROM BATTERY SWITCH PANEL
* AND THE GROUND (GREEN) FROM
THE INLET TO MAIN DISTRIBUTION PANEL

30 amp GALVANIC ISOLATOR
LOCATED ON THE SHORE
POWER GROUND WIRE

1. SHORE POWER INLET
2. HOT / NEUTRAL INLET TO A.C. RESET ON THE BATTERY SWITCH PANEL
3. BATTERY SELECTOR SWITCH (WITH A.C. RESET)
4. BATTERY GROUND BUSS BAR (#1)
5. HOUSE / START BATTERIES
6. LEADS FROM BATTERY SWITCH TO MAIN DISTRIBUTION PANEL AND BATTERY SWITCH
7. 10/3 BOAT CABLE TO MAIN DISTRIBUTION PANEL AND BATTERY SWITCH
8. BATTERY GROUND BUSS BAR (#2)
9. MAIN DISTRIBUTION PANEL LOCATED @ NAVIGATION STATION)

H340 ELECTRICAL AMPERAGE DATA

12V.D.C. SYSTEM	
CIRCUIT/BREAKER	AMPERAGE
D.C. MAIN	50amp
PANEL LIGHTS	5amp
CABIN LIGHTS 1	20amp
CABIN LIGHTS 2	20amp
COURTESY 1	10amp
COURTESY 2	10amp
TANK INDICATOR	5amp
WATER PRESSURE	10amp
FWD.SHOWER SUMP	10amp
AFTSHOWER SUMP	10amp
MACERATOR 1	20amp
MACERATOR 2	20amp
STEREO	15amp
STEREO W/AMPLIFIER	20amp
REFRIGERATION	15amp
L.P. GAS	5amp
WINDLASS (SWITCH)	5amp
INSTRUMENTS	5amp
G.P.S.	5amp
V.H.F.	10amp
AUTO-PILOT	VARIES PER MODEL
ANCHOR LIGHT	5amp
STEAMING LIGHT	5amp
DECK LIGHT	15amp
RUNNING LIGHTS	10amp (LGR. MOD.)
RUNNING LIGHTS	5amp (SM. MOD.)
COMPASS (TIES TO RUN. LIGHTS)	300amp
BATTERY CABLES	
ENGINE STARTER CABLE	
HALYARD WINCH	
WINDLASS (MOTOR) CABLE	

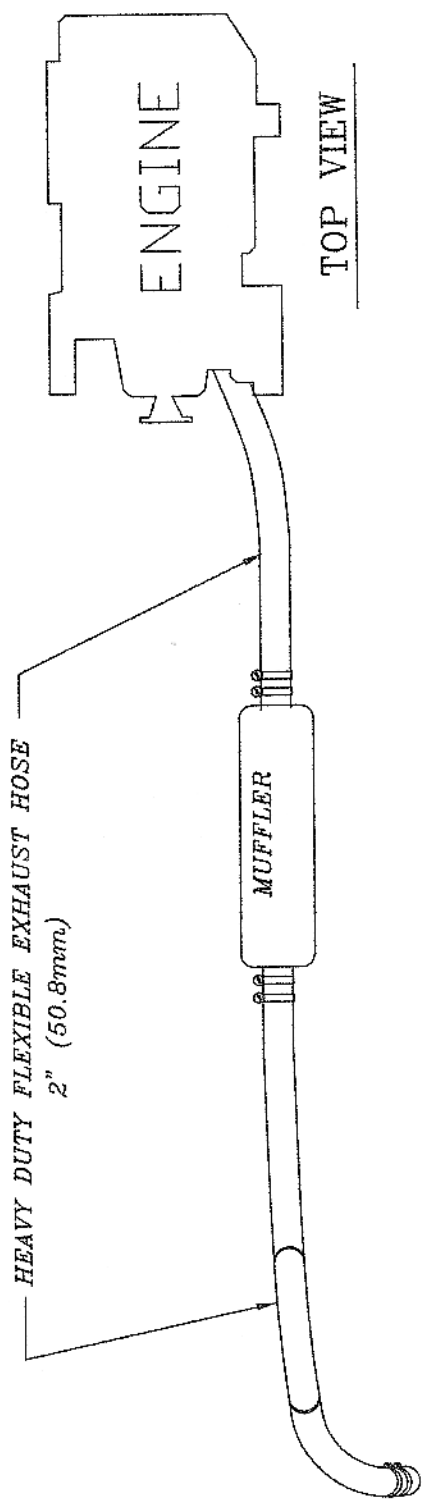
110V.A.C. SYSTEM	
SHORE POWER A.C. MAIN/S	30 amp
OUTLETS	15amp
MICROWAVE OVEN	15amp
WATER HEATER	20amp
BATTERY CHARGER	15amp
INVERTER	INTERNAL
AIR CONDITIONING	25amp

220V.A.C. SYSTEM (ON SELECT OVERSEAS MODELS ONLY)	
SHORE POWER A.C. MAIN/S	15 amp
OUTLETS	10amp
MICROWAVE OVEN	10amp
WATER HEATER	10amp
BATTERY CHARGER	10amp
INVERTER	N/A
AIR CONDITIONING	15amp

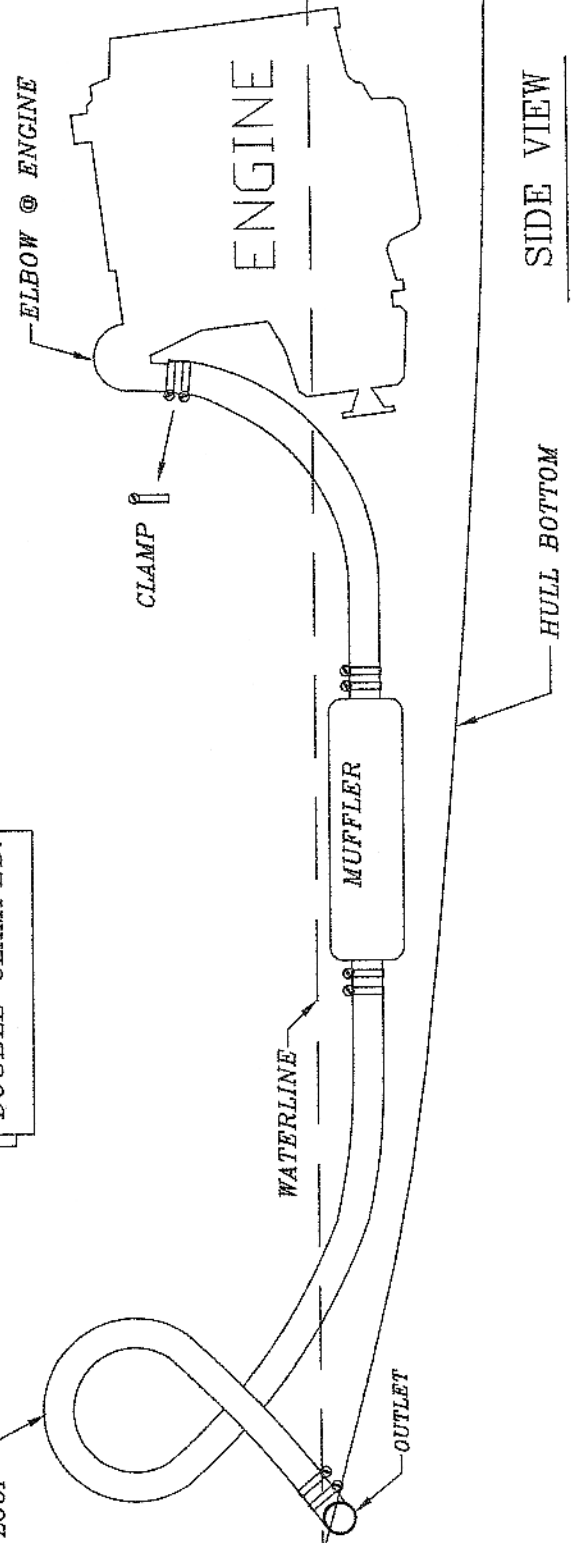
NOT ALL FEATURES APPLY TO ALL BOAT MODELS

H340 ELECTRICAL WIRING/CABLE DATA

DESCRIPTION	PRT. NUMBER	WIRE SIZE	WIRE COLOR
LPG SWITCH/POWER	659802	16 gauge	ORANGE/RED
SENDER GUAGES	658600	16 gauge	RED/BLUE
FUEL SENDER	658100	16 gauge	PINK,ORANGE/WHITE
GROUND	659800	16 gauge	YELLOW
FWD WATER SENDER	659806	16 gauge	ORANGE/BLUE, PINK/BLACK
GROUND	659800	16 gauge	YELLOW
WATER PUMP	655200	12 gauge	BROWN
GROUND	659700	12 gauge	YELLOW
VACCU FLUSH	652202	10 gauge	BROWN/RED
GROUND	659800	16 gauge	YELLOW
AFT WASTE SENDER	659805	16 gauge	ORANGE/GREEN, PINK/GRAY
GROUND	659800	16 gauge	YELLOW
AFT SUMP PUMP	655400	12 gauge	BROWN/BLACK
GROUND	659700	12 gauge	YELLOW
FWD MACERATOR	655800	10 gauge	BROWN/WHITE
GROUND	659800	16 gauge	YELLOW
SOLAR PANEL	653640	16/2 DUPLEX	RED/YELLOW
VHF	653300	16 gauge	RED/WHITE
GROUND	659800	16 gauge	YELLOW
COURTESY LIGHTS	655100	16 gauge	BLUE/WHITE
GROUND	659800	16 gauge	YELLOW
CABIN LIGHTS	655000	16 gauge	BLUE
GROUND	659800	16 gauge	YELLOW
PORT FWD SPEAKERS	653620	16 gauge	WHITE/RED
STBD FWD SPEAKERS	653622	16 gauge	WHITE/BROWN
PORT MAIN SPEAKERS	653623	16 gauge	WHITE/ORANGE
STBD MAIN SPEAKERS	653624	16 gauge	WHITE/BLUE
PORT AFT SPEAKER	653625	16 gauge	WHITE/GREEN
STBD AFT SPEAKER	653626	16 gauge	WHITE/VIOLET
PORT ARCH SPEAKER	653627	16 gauge	WHITE/PINK
PORT GROUND	653629	16 gauge	WHITE/YELLOW
STBD ARCH SPEAKER	653630	16 gauge	WHITE/GRAY
STBD GROUND	659800	16 gauge	WHITE/BLACK
COMPASS BOW LIGHT	659804	16 gauge	GRAY/WHITE
STERN LIGHT		16 gauge	GRAY/YELLOW
GROUND	659800	16 gauge	YELLOW
MAST LIGHT	657300	16 gauge	GRAY
STEAMING LIGHT	656800	16 gauge	GRAY/GREEN
ANCHOR LIGHT	656900	16 gauge	GRAY/RED
HOUSE BATTERY	653610	2/O, 2 gauge	RED
GROUND	653900	2/O, 2 gauge	YELLOW
AC/DC PANEL	657900	6 gauge	ORANGE/RED,ORANGE/GREEN
GROUND	653618	6 gauge	YELLOW
ENGINE	654100	1/O, 2 gauge	RED
HALYARD	654010	1/O, 2 gauge	YELLOW
T.V. / V.C.R.	658400	10 gauge	RED
GROUND	653631	10 gauge	YELLOW
REFRIGERATION	659800	8 gauge	RED/BLACK
FREEZER	658900	8 gauge	RED/WHITE
GROUND	653615	8 gauge	YELLOW
STEREO OUT	657600	12 gauge	ORANGE/GREEN
STEREO POWER	658500	12 gauge	RED
GROUND	659700	12 gauge	YELLOW
INVERTER GROUND	653642	4 gauge	GREEN/YELLOW
WINDLASS SWITCH	659200	16 gauge	TAN
MANUAL BILGE	655700	12 gauge	BROWN/RED
AUTO BILGE	655600	12 gauge	BROWN/ORANGE
GROUND	659700	12 gauge	YELLOW
AFT MACERATOR	652400	10 gauge	BROWN
AFT SUMP PUMP	655400	12 gauge	BROWN/BLACK
FWD SUMP PUMP	654600	12 gauge	BROWN/YELLOW
AUTO PILOT	658700	10 gauge	RED
GROUND	653615	10 gauge	YELLOW
CHAINPLATE	653642	4 gauge	GREEN/YELLOW
BATTERY CHARGER # 1	658000	8 gauge	ORANGE/RED
BATTERY CHARGER # 2	657800	8 gauge	ORANGE/GREEN



ALL HOSES ARE
DOUBLE CLAMPED.

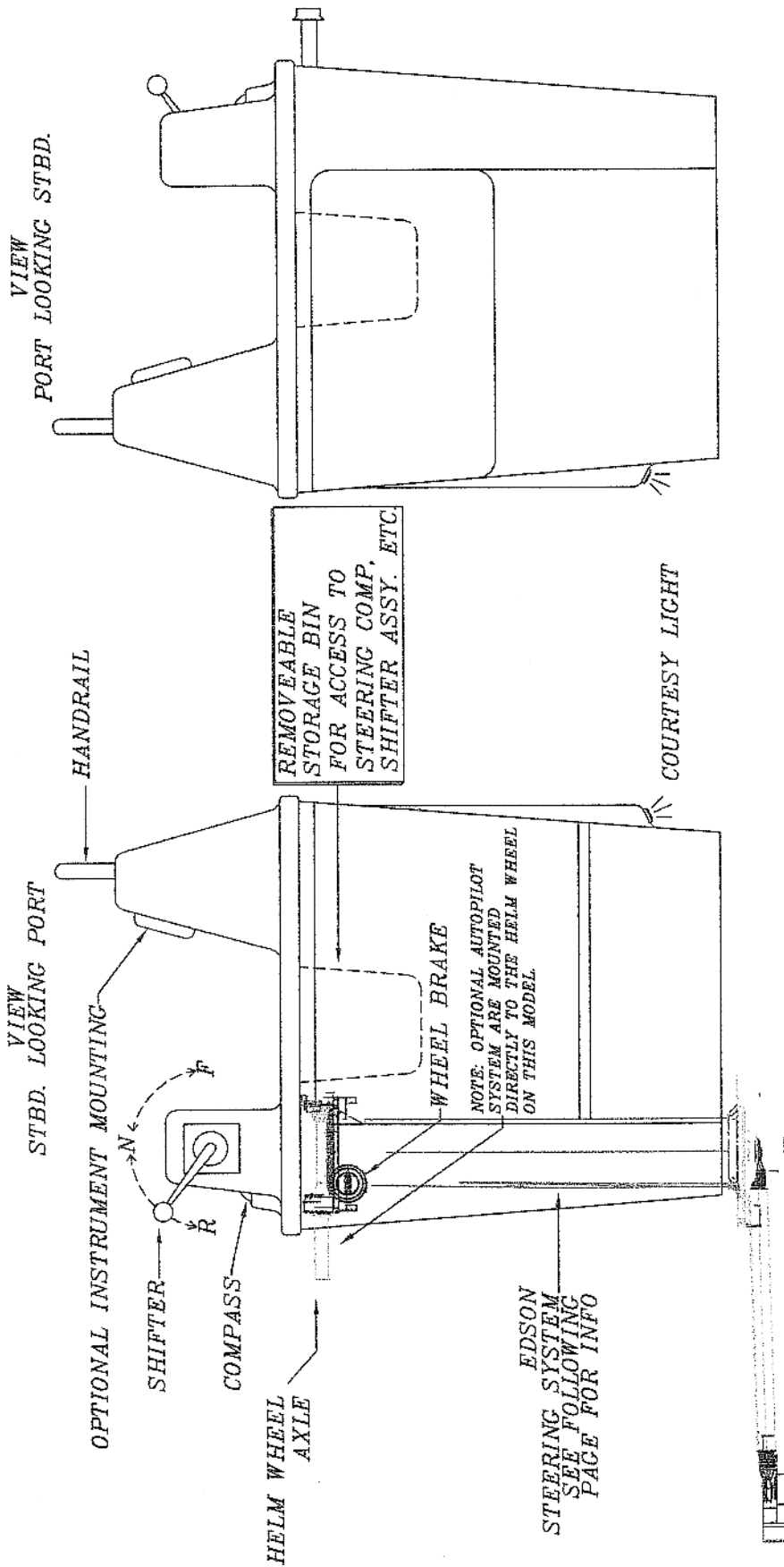


REVISED TITLE: H340 EXHAUST SYSTEM LAYOUT

THE ORIGINAL DESIGN MEMORANDUM FOR WHICH HUNTER-WALKER CORP. HAS PROPRIETARY RIGHTS

DESIGN NO.	3408066	REVISION NO.	NONE
DEPT.	ENGINEERING DEPT.	DATE	1/18/00

HUNTER-WALKER



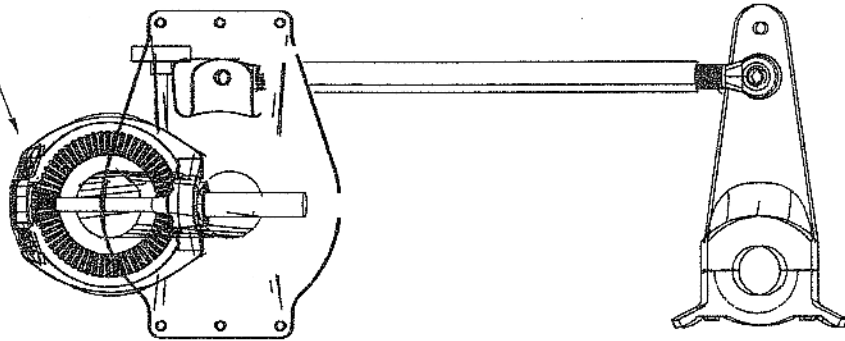
IMPORTANT:

SEE EDSON STEERING MAINTENANCE UNDER "MAINTENANCE" FOR A COMPLETE DESCRIPTION OF STEERING COMPONENTS AND VITAL ROUTINE MAINTENANCE PROCEDURES.

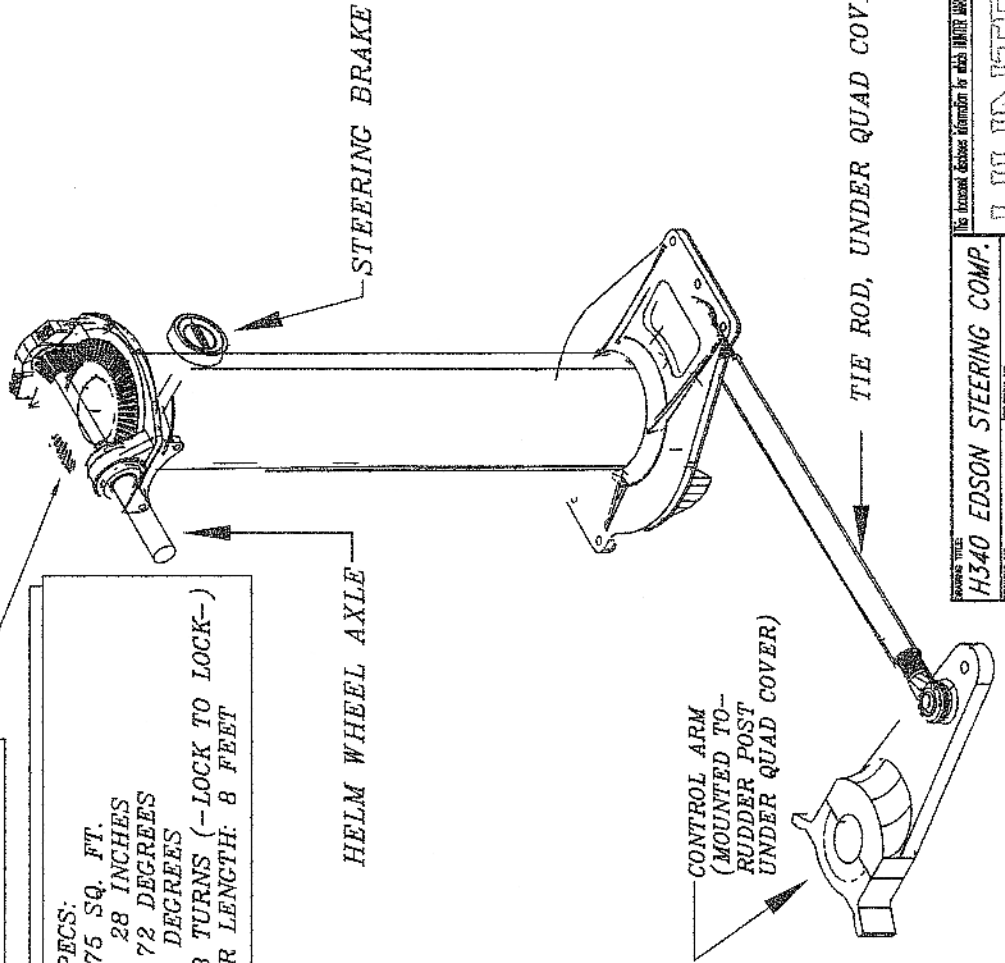
NOTE: THIS UNIT IS INSIDE COCKPIT CONSOLE, CONSOLE NOT SHOWN FOR CLARITY

H340 STEERING SPECS:
 RUDDER AREA: 8.75 SQ. FT.
 WHEEL DIAMETER: 28 INCHES
 RUDDER TRAVEL: 72 DEGREES
 OFFSET ANGLE: 4 DEGREES
 WHEEL TRAVEL: 1.8 TURNS (-LOCK TO LOCK--)
 EQUIVALENT TILLER LENGTH: 8 FEET

PLAN VIEW



ISO VIEW



NO. HUNTER DESIGN NUMBER OR HUNTER PART NO. OR, HAS PREVIOUS EDITIONS

HUNTER	
H340 EDSON STEERING COMP.	
DESIGN NO.	3408097B
REVISED NO.	NONE
DATE	10/27/99
ENGINEERING DEPT.	

EDSON ENGINEERING BULLETIN

CD-i COMPACT RACK AND PINION PEDESTAL STEERING MAINTENANCE

THE EDSON CD-i GEARED STEERING SYSTEM HAS BEEN DESIGNED FOR YEARS OF TROUBLE-FREE SERVICE. BUT AS WITH ALL SYSTEMS USED IN THE HARSH MARINE ENVIRONMENT, PROPER MAINTENANCE AND CARE IS REQUIRED SO THAT THE SYSTEM REMAINS IN LIKE-NEW CONDITION.

THE EDSON CD-i SYSTEM SHOULD BE LUBRICATED WITH HEAVY-DUTY TEFLON GREASE, SUCH AS EDSON'S PART #827. THE TOP RACK AND PINION GEARS, UPPER AND LOWER GREASE FITTINGS FOR THE NEEDLE BEARINGS REQUIRE ANNUAL LUBRICATION.

RACK AND PINION TEETH: GRADUALLY TURN THE WHEEL FROM PORT TO STARBOARD WHILE APPLYING GREASE TO THE INDIVIDUAL TEETH TO INSURE THAT THE ENTIRE TOOTH SURFACES ARE BEING LUBRICATED.

DOWNTUBE NEEDLE BEARINGS: GREASE FITTINGS ARE LOCATED ON THE INSIDE OF THE DOWNTUBE JUST BELOW THE WHEEL SHAFT AND JUST ABOVE THE LOWER END OF THE

DOWNTUBE ON THE FORWARD SIDE. BOTH BEARINGS SHOULD BE LUBRICATED AT THESE LOCATIONS. BECAUSE OF THE VERY TIGHT TOLERANCES OF THE BEARINGS, A LITTLE GREASE GOES A LONG WAY- DO NOT OVER LUBRICATE THE SYSTEM. THE SYSTEM SHOULD BE LUBRICATED AT LEAST ONCE A YEAR.

DRAG LINK END FITTINGS: THE BALL JOINT AT BOTH ENDS OF THE DRAG LENGTHS SHOULD BE LUBRICATED ANNUALLY WITH TEFLON GREASE AS WELL. APPLY A SMALL AMOUNT OF GREASE TO THE BALL JOINT AND MOVE THE BALL SIDE-TO-SIDE TO LUBRICATE THE ENTIRE BEARING SURFACE. REMOVING THE DRAG LINK ENDS FROM THE TILLER ARMS MAY BE NECESSARY.

SPECIAL INFORMATION FOR EDSON INTERNAL CD-i STEERING SYSTEMS INSTALLED ON HUNTER YACHTS:

BOTH THE DOWNTUBE AND STEERING SHAFT BEARINGS REQUIRE LUBRICATION WITH TEFLON GREASE. THE UPPER BEARING GREASE FITTING IS LOCATED JUST UNDER THE TOP BOWL CASTING ON THE FORWARD SIDE OF THE OUTER TUBE. THE LOWER BEARING GREASE FITTING IS LOCATED JUST ABOVE DECK LEVEL ON THE FORWARD SIDE OF THE OUTER TUBE. THE STEERING WHEEL SHAFT NEEDLE BEARING GREASE FITTING IS LOCATED ON THE TOP OF THE AFT BEARING RACE. THE FORWARD BEARING IS SEALED AND REQUIRES NO LUBRICATION.

IMPORTANT

TO PROPERLY MAINTAIN THE MOVING PARTS IN THE EDSON CD-i COMPACT RACK AND PINION STEERING SYSTEM, IT IS NECESSARY TO REMOVE THE COMPASS AND ITS CYLINDER. FOR PROPER ALIGNMENT WHEN REINSTALLING THE COMPASS, WE RECOMMEND PLACING THREE OR FOUR PIECES OF TAPE ON THE PEDASTAL AND COMPASS. SLIT THE TAPE WHEN REMOVING THE COMPASS FOR VISUAL REALIGNMENT, YOUR COMPASS MUST THEN BE CHECKED FOR ACCURACY BEFORE USING THE BOAT

THE LATEST RELEASE INFORMATION FOR ALL HUNTER YACHTS. SEE HUNTER.COM

HUNTER

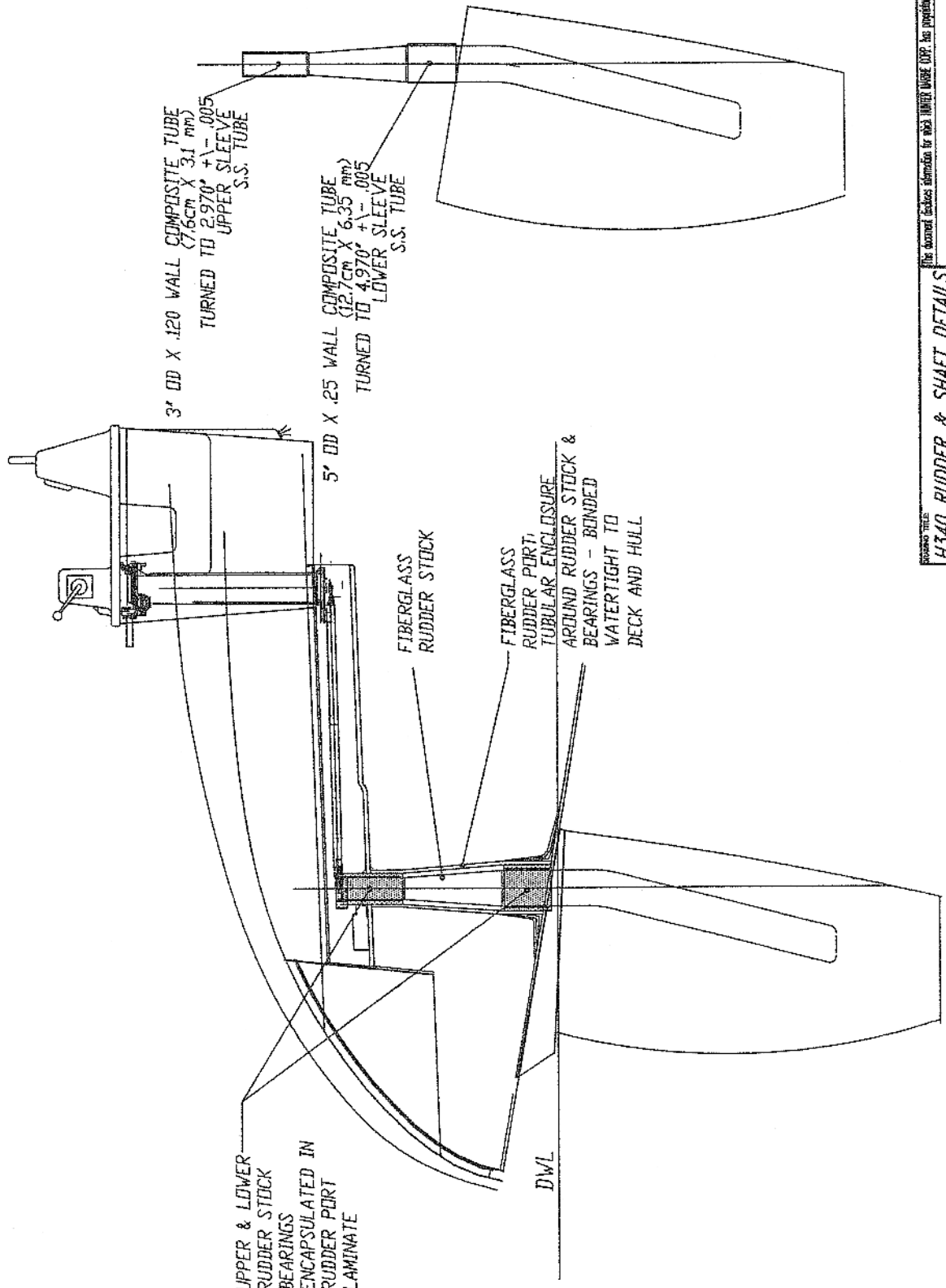
H340 EDSON STEERING MAINTENANCE

ISSUE NO. NONE

ISSUE DATE 10/27/99

ISSUE NO. 3400087C

ISSUE DEPT. ENGINEERING DEPT.



3' OD X .120 WALL COMPOSITE TUBE
 (7.6cm X 3.1 mm)
 TURNED TO 2.970' ± .005
 UPPER SLEEVE
 S.S. TUBE

5' OD X .25 WALL COMPOSITE TUBE
 (12.7cm X 6.35 mm)
 TURNED TO 4.970' ± .005
 LOWER SLEEVE
 S.S. TUBE

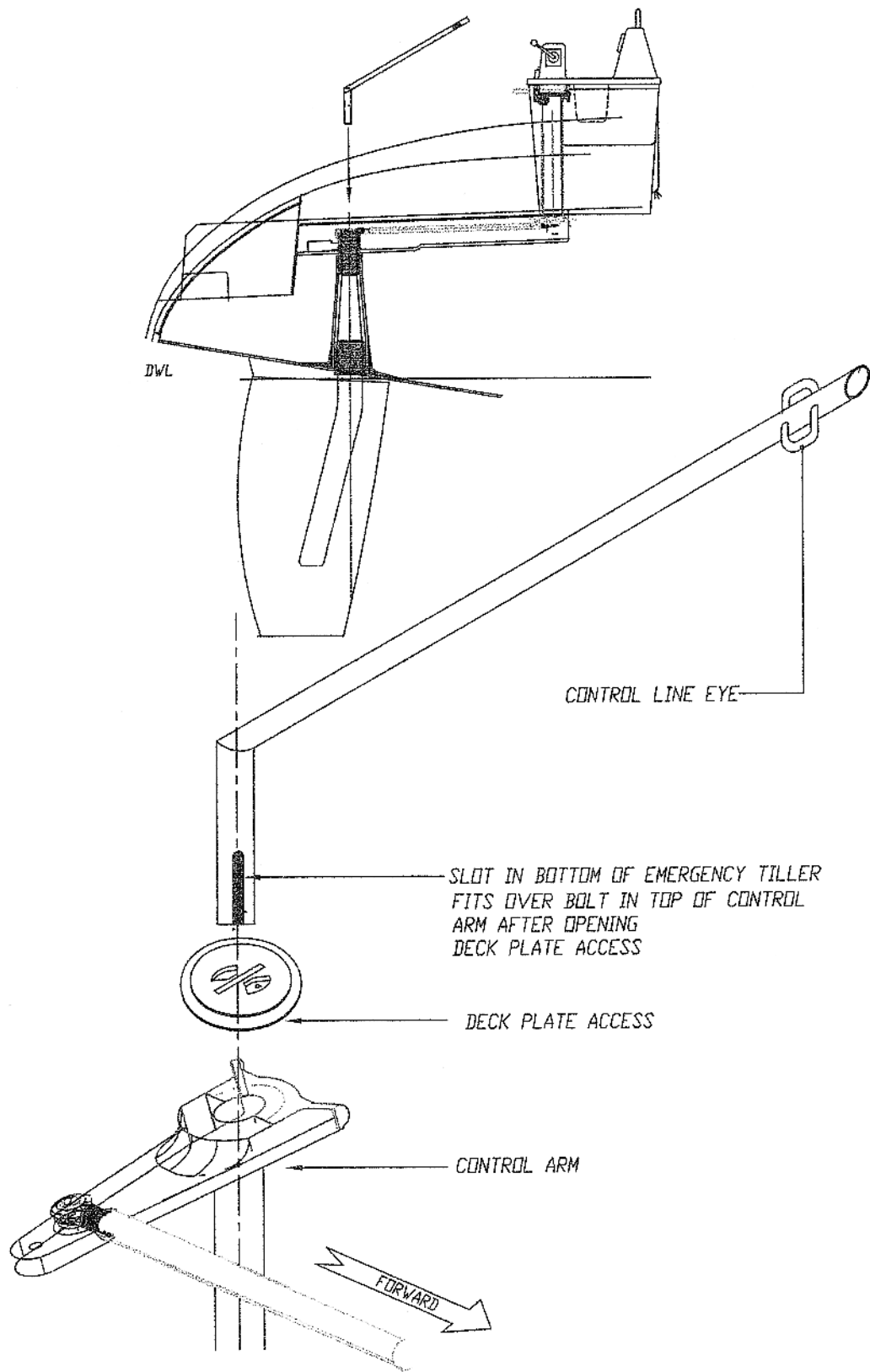


UMHW
 UPPER BEARING
 NYLON TUBE



UMHW
 LOWER BEARING
 NYLON TUBE

ISSUED TITLE: H340 RUDDER & SHAFT DETAILS
 DRAWING NO.: 340B058
 REVISION NO.: NONE
 DATE: 10/27/99
 DEPT.: ENGINEERING DEPT.
 HUNTER

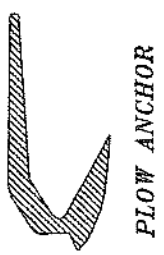
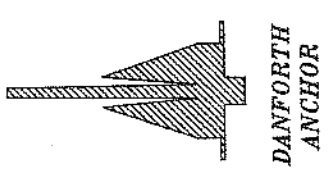


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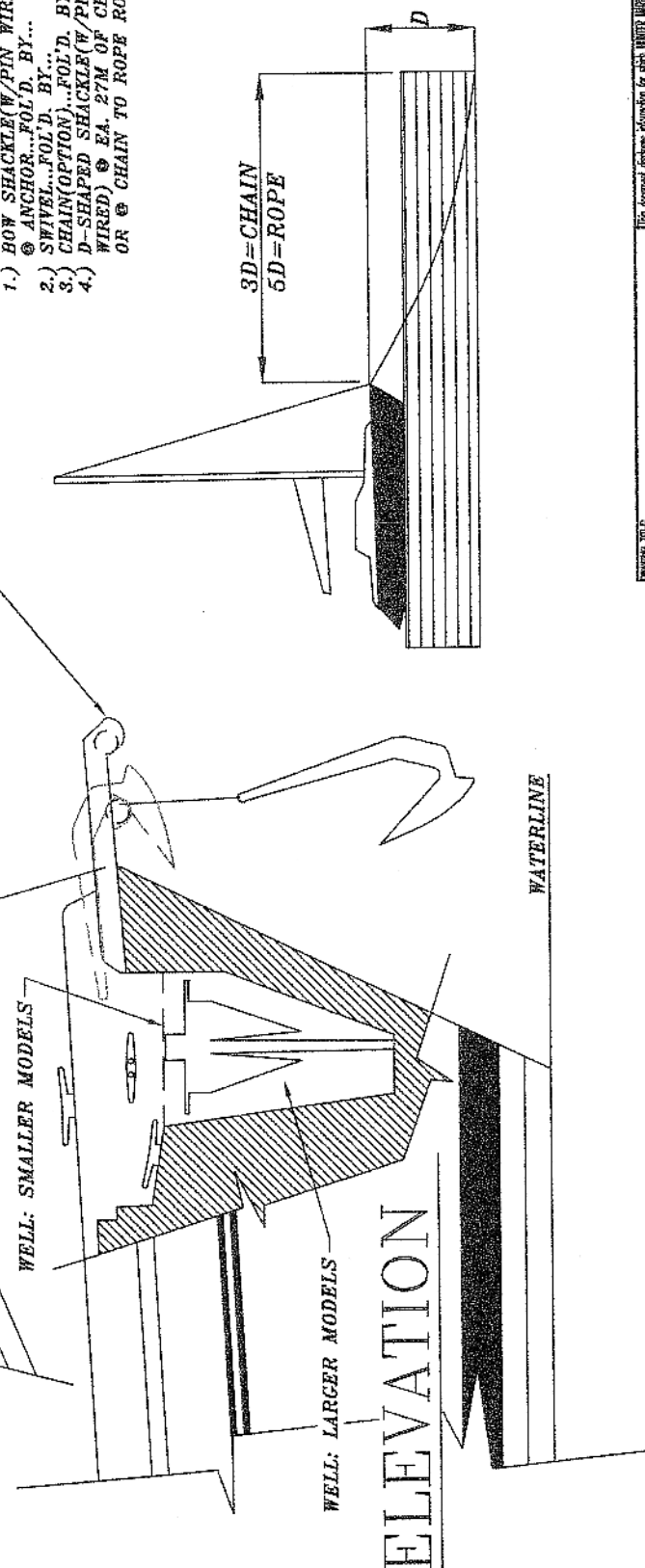
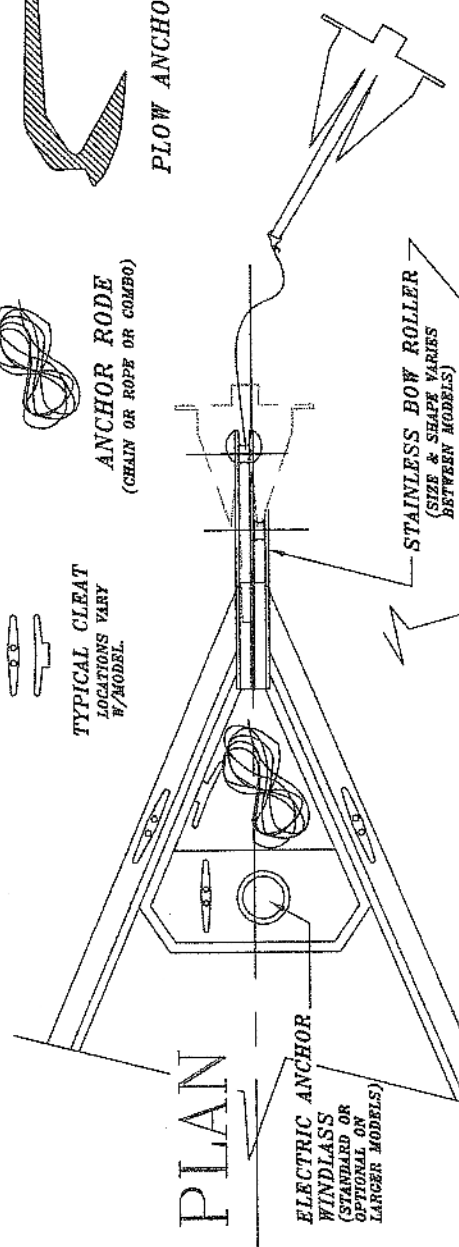
H340 EMERGENCY TILLER

REVISION NO.	NO. 01
DATE	10/27/99
DESIGNED BY	ENGINEERING DEPT.
DRAWN BY	
CHECKED BY	
APPROVED BY	

HUNTER



- GROUND TACKLE:**
- 1.) BOW SHACKLE(W/PIN WIRED)
@ ANCHOR...FOL'D. BY...
 - 2.) SWIVEL...FOL'D. BY...
 - 3.) CHAIN(OPTION)...FOL'D. BY...
 - 4.) D-SHAPED SHACKLE(W/PIN WIRED) @ EA. 27M OF CHAIN OR @ CHAIN TO ROPE RODE.



FOR TECHNICAL DRAWING INFORMATION FOR THIS HUNTER MARK CORP. LOG REGULATORY DEPT.

HUNTER

H340 BASIC ANCHORING DIAGRAM	
DATE: 3-4-08-070	REVISED: NONE
DESIGNED BY: ENGINEERING DEPT.	DATE: 12/27/99

H U N T E R M A R I N E



3 4 0

HUNTER 340 TERE 340



Whether you are ready to set sail for the islands or just around the buoys, the Hunter 340 can really make a difference. Starting with the tall, fractional rig – which is a direct descendent of the B&R rig that powered *Hunter's Child* to a second place finish in the recent BOC – Hunter has engineered the mast to carry less weight aloft with smaller sections. This is accomplished by utilizing swept-back spreaders and reverse diagonals as well as mast support struts. This combination provides superior strength without a backstay and increases the stability at the same time. By using a large roach main as the power sail, Hunter has eased the effort in sail handling and allowed for real versatility for all wind and sea conditions. Your benefit: better performance with less effort.

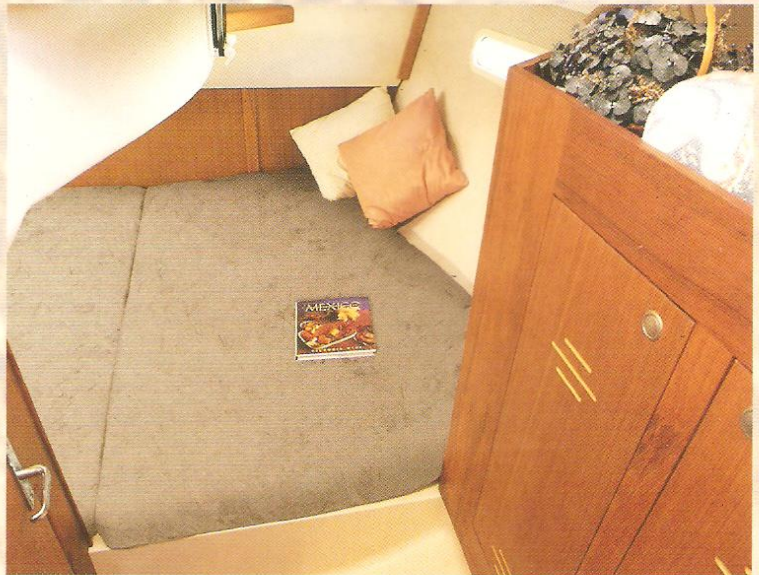
The deck layout reflects the innovation that accompanies the rig. An integrated arch protects the cockpit from snapping main sheets and blistering sun with the optional bimini. This arch keeps the cockpit clear and open. A custom console stands ready with the standard VHF and instruments. Single lever control and fold down table along with engine instrumentation complete the command station. The swim platform and walkthrough transom complete with shower and folding ladder are perfect for water sports or for boarding the tender. Storage is everywhere you look and the non-skid is first rate.

Comfort is truly important aboard whether for a week or a year, so Hunter has created an interior that not only looks good, but works for you as well. Two private, large staterooms along with an enormous head with shower and a salon that can seat eight plus a gourmet galley will keep all the crew happy.

If you're looking for major comfort in a mid-size package and performance is important, then the Hunter 340 could be your answer. You owe yourself a test sail today!



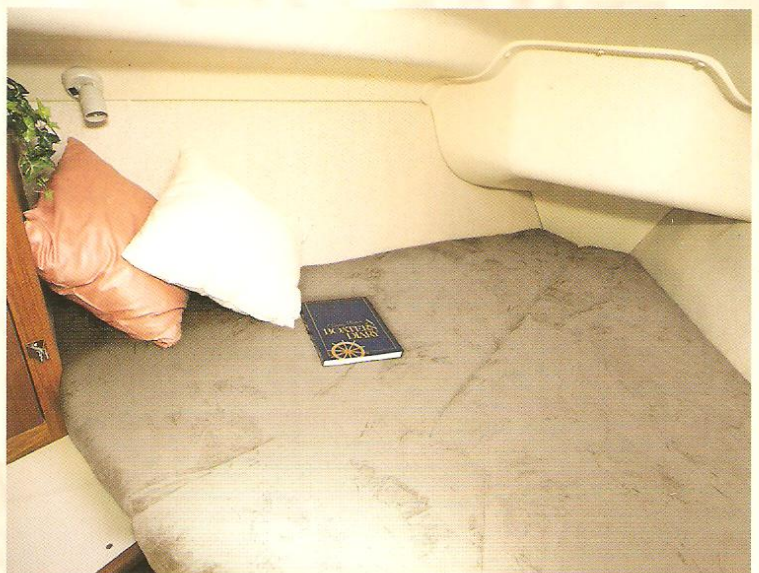
The integrated arch keeps the cockpit clear with the traveler up top and makes a great attachment point for the optional bimini.



Headroom in the master stateroom is excellent. The queen-size berth is accompanied by two hanging lockers and plenty of stowage.



Custom consoles provide added space for instruments and the drop leaf table is perfect for entertaining.



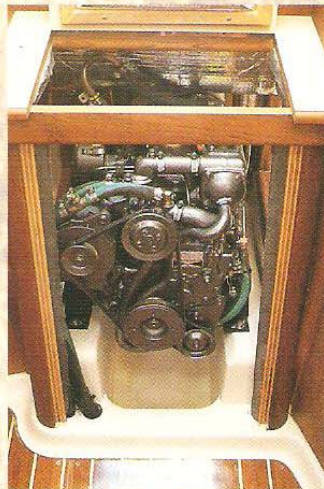
Forward, the guest stateroom is totally private and will hold all the gear your family or friends would need.



The full service galley is U-shaped and Corian®-covered for beauty and durability. A hidden trash bin, full range with oven, microwave, and large icebox is all standard; a Chef's Delight!



The covered marine head doubles as a shower seat in the enlarged head. Corian® counters and plenty of dry storage is a must.



Access to the 27 horsepower freshwater-cooled Yanmar is excellent on all four sides. The insulation will keep it quiet and cool.



The rounded cockpit is pushed right to the gunnels to provide maximum useable space.



All lines are led aft for short-handed sailing and the coaming wells keep it all organized.



The stainless steel anchor roller leads into a deep well that can handle all the chain and rode you need.

hardware and accessories, Hunter was doing something about it. The Hunter Cruise Pac® was developed to make all the accessories and hardware you need standard equipment. We buy top-quality gear in very large quantities. The result? Equally large savings. The Hunter 340 Cruise Pac® isn't just sails, winches, and running rigging – it's things like galley, anchor, fire extinguisher, running lights, life jackets – even a copy of US Sailing's *Basic Cruising Manual*. We invite you to compare the Standard Equipment list below with that of any other manufacturer. You'll discover that Hunter is going the distance for you with more – and better gear. For less.

RIGGING

- Large roach mainsail w/flaking system
- 110% furling genoa
- Furling system
- Mainsail cover
- Boom vang
- Single line reefing system
- Internal halyards led to cockpit
- (2) Sets triple line stoppers and organizers
- (2) Two speed self-tailing winches
- Anodized fractional rig w/support struts
- Inboard jib track w/cars
- Mainsheet on arch
- Windex® wind vane

DECK/HULL

- Stainless arch w/mainsheet
- Stainless bow pulpit
- Stainless stern rail with seats
- Double lifelines w/gates
- Stainless handrails
- Windshield
- Two-tone non-skid deck
- Anchor well w/space for windlass
- Stainless stem fitting w/anchor roller
- (5) Cockpit/transom storage lockers
- Integrated swim platform
- Stainless telescoping swim ladder
- (2) Dorade vents
- (4) Opening hatches w/screens
- (4) Opening ports w/screens
- (4) Fixed hull ports
- Through-bolted hull/deck joint
- One piece continuous rub rail
- (4) Dock cleats
- (2) Spring cleats
- Shoal or deep keel

COCKPIT

- Integrated wheel console includes:
 - folding cockpit table, S/S guard, drink holders, lighted compass, storage, wheel brake and single lever engine control
- Walk-through transom
- Hinging helmsman seat
- Wrap-around coamings
- Halyard stowage wells
- Hot/cold cockpit shower
- Manual bilge pump
- Stainless steel cockpit arch

ELECTRONICS

- VHF radio w/stainless antenna
- Knotmeter with log
- Depthsounder
- Stereo w/2 speakers

AUXILIARY POWER

- 27 hp Yanmar diesel, freshwater cooled
- 30 gal. (110 l) fuel tank

ELECTRICAL

- Dockside power w/cord
- Multiple AC outlets in cabin
- AC/DC switch panel
- Dual 12v battery switch
- Battery charger
- Electric automatic bilge pump
- Tank monitors
- Running lights w/steaming and anchor light
- Cabin lighting

CABIN

- Selected hardwood trim
- Hardwood cabin sole
- Fully enclosed head w/shower
- Molded vanity w/Corian® top
- 30 gal. (110 l) holding tank
- Hot/cold pressure water
- (3) Hanging lockers
- Private aft cabin
- Private forward cabin
- Dinette converts to double berth

GALLEY

- Corian® countertop
- Microwave
- Double stainless steel sink
- Hot/cold pressure water
- Two burner, LPG stove w/oven
- 75 gal. (285 l) freshwater capacity
- Icebox
- Dishware
- Built-in trash receptacle

GENERAL SAFETY GROUP

- Anchor and line
- (4) Life jackets
- Flares
- Throwable device
- (2) Fire extinguishers
- Emergency tiller
- US Sailing's *Basic Cruising Manual*

OPTIONS:

- Deep keel
- Arch-mounted bimini system
- In-mast furling
- Raytheon® Autohelm® GPS
- Raytheon® Autohelm® Windmachine
- Raytheon® Autohelm® 4000 autopilot
- Accord window shades
- Cockpit cushions
- Mainsheet traveler
- Electric anchor windlass
- Refrigeration
- Spinnaker winches
- Air conditioning



HUNTER®

MARINE CORPORATION
AN EMPLOYEE OWNERSHIP COMPANY

WE GO THE DISTANCE

Route 441 • Post Office Box 1030 • Alachua, Florida USA 32615

Phone (904) 462-3077 • FAX (904) 462-4077

NATIONAL CUSTOMER HOTLINE U.S. 1-800-771-5556

www.huntermarine.com

e-mail: sales@huntermarine.com • customerservice@huntermarine.com



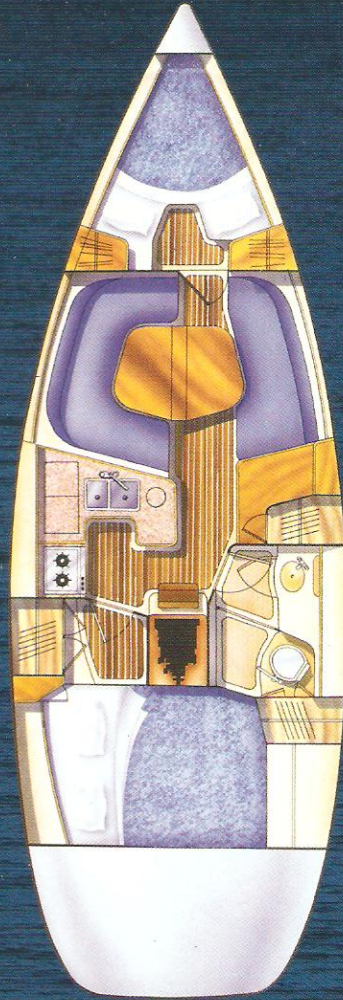
Marine Industry Certified Manufacturer



Certified



Certified by National Marine Manufacturers' Association



We Go The Distance.

The Hunter Marine Team is committed to crafting the best boat possible. To this goal we continue to develop innovative and affordable solutions to sailing's challenges, for this and the next generation of sailboats.

It is our desire that your time on the water be the basis of your fondest memories.



S P E C I F I C A T I O N S

Length Overall	
33'9"	10.29 m
Hull Length	
33'6"	10.21 m
Waterline Length	
28'7"	8.71 m
Beam	
11'8"	3.54 m
Shoal Draft	
4'6"	1.37 m
Deep Draft	
6'0"	1.83 m
Ballast	
4,100 lb	1,861 kg
Displacement	
11,030 lb	5,008 kg
Mast Height (From dwl)	
55'9"	16.99 m
Sail Area (Actual)	
682 ft ²	63.30 m ²
I	
43'0"	13.10 m
J	
11'6"	3.50 m
P	
44'0"	13.41 m
E	
16'0"	4.88 m
Headroom	
6'4"	1.93 m
Fuel Capacity	
30 gal	110 L
Water Capacity	
75 gal	280 L
Hold Tank Capacity	
30 gal	110 L
Water Heater	
6 gal	23 L
Auxiliary Power (Yanmar)	
27 hp	20.0 kw
CE Classification	
A	

