

BUILDER'S INFORMATION PLATE
HUNTER MARINE CORPORATION

H460

HUNTER MARINE CORP.



A



MAXIMUM

$$10 \text{ [person icon]} + \text{[bag icon]} = \underline{2460\text{kg}}$$

LIGHTSHIP DISPLACEMENT = 11,360Kg (24,902Lb)

FULL LOAD DISPLACEMENT = 13,820Kg (30,404Lb)

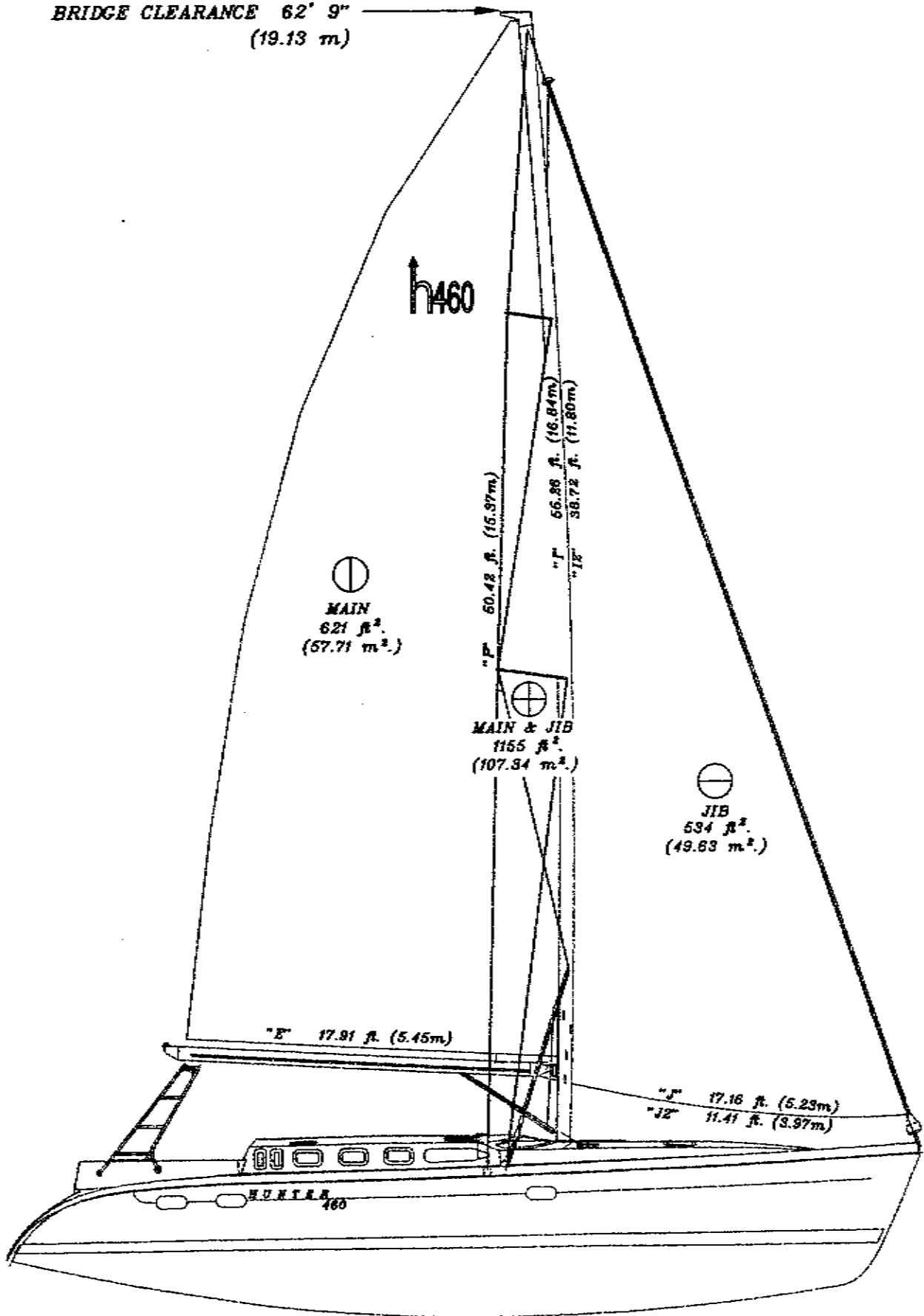
SINK @ FULL LOAD = 85mm (3.34")

EACH HUNTER 460 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 1999

PAGE - 35

BRIDGE CLEARANCE 62' 9"
(19.13 m)



HUNTER

460 STANDARD SAILPLAN

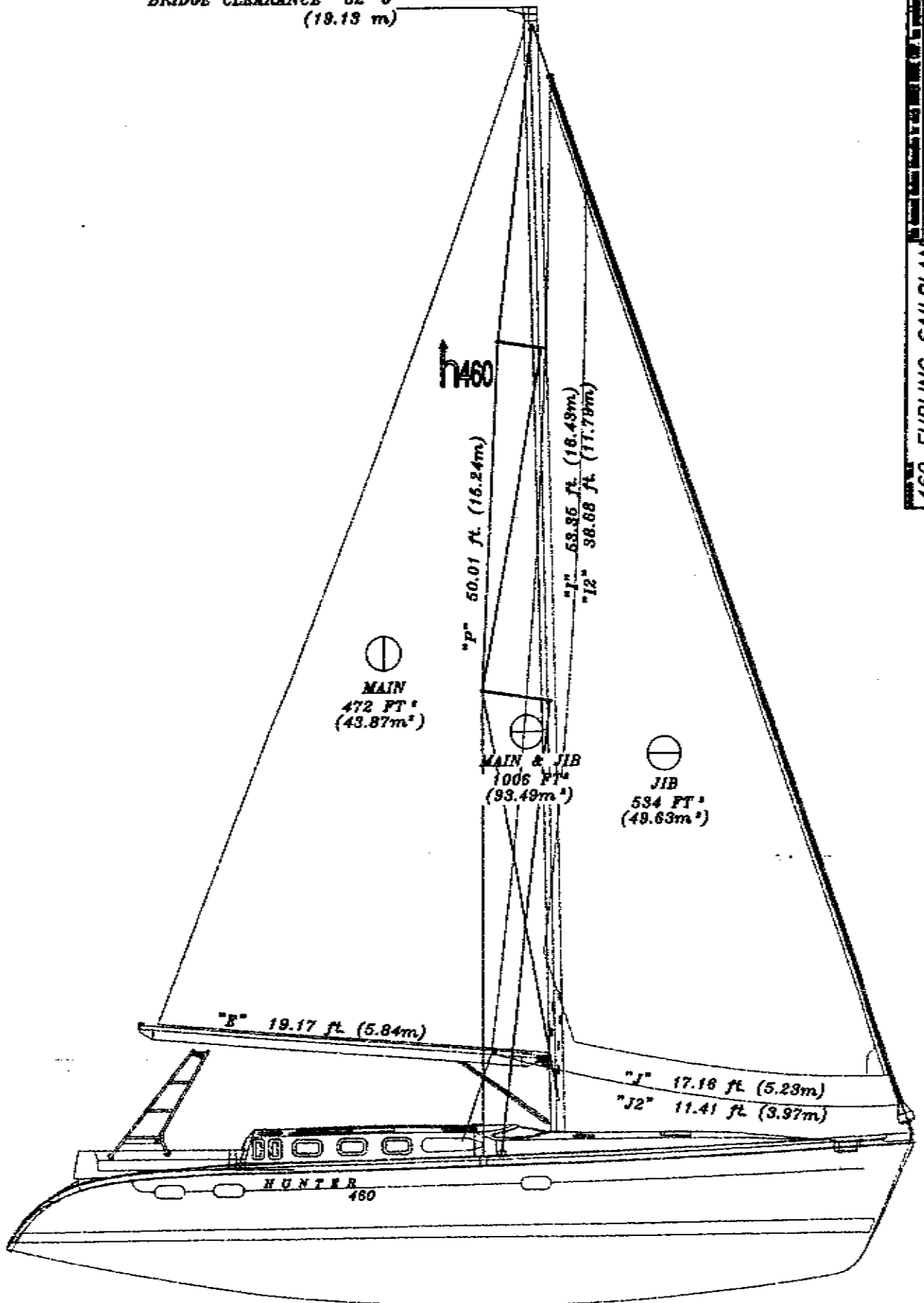
NO. 460035A

NAME

ENGINEERING DEPT.

11/13/98

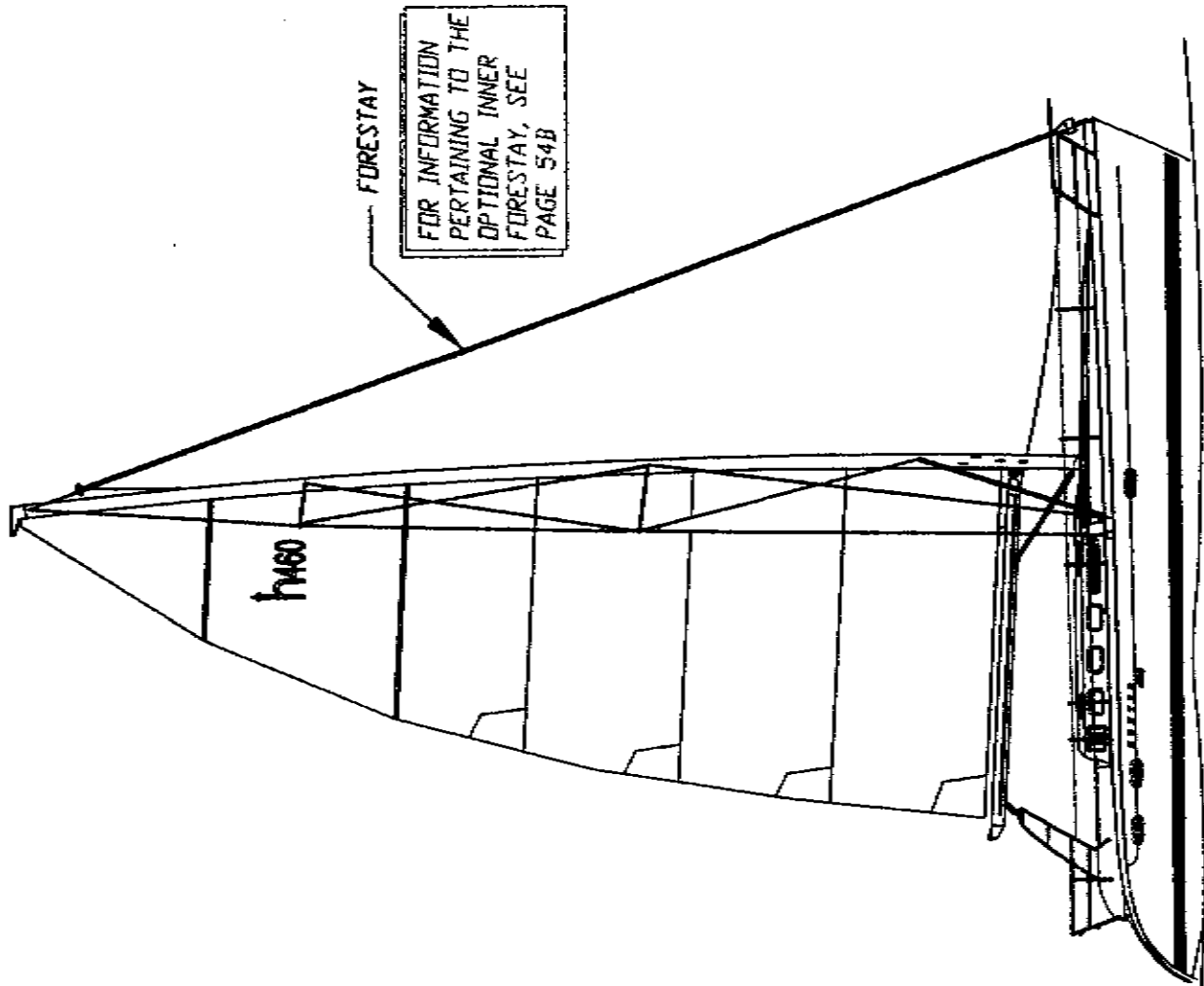
BRIDGE CLEARANCE 62' 9"
(19.13 m)



460 FURLING SAILPLAN

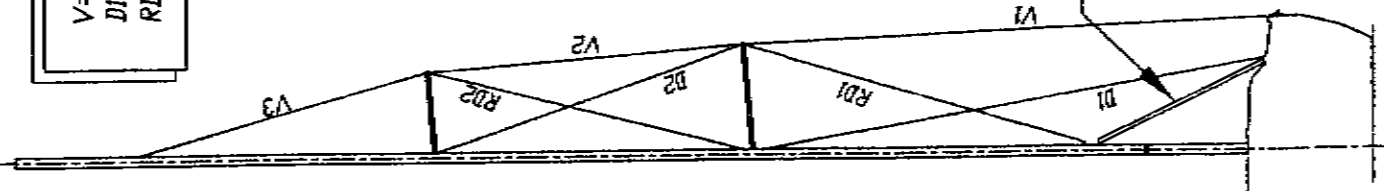
| | |
|-------------------|----------|
| NO. 14000348 | NONE |
| ENGINEERING DEPT. | 11/13/08 |

HUNTER



V= VERTICAL SHROUD
 DI= DIAGONAL SHROUD
 RD= REVERSE DIAGONAL SHROUD

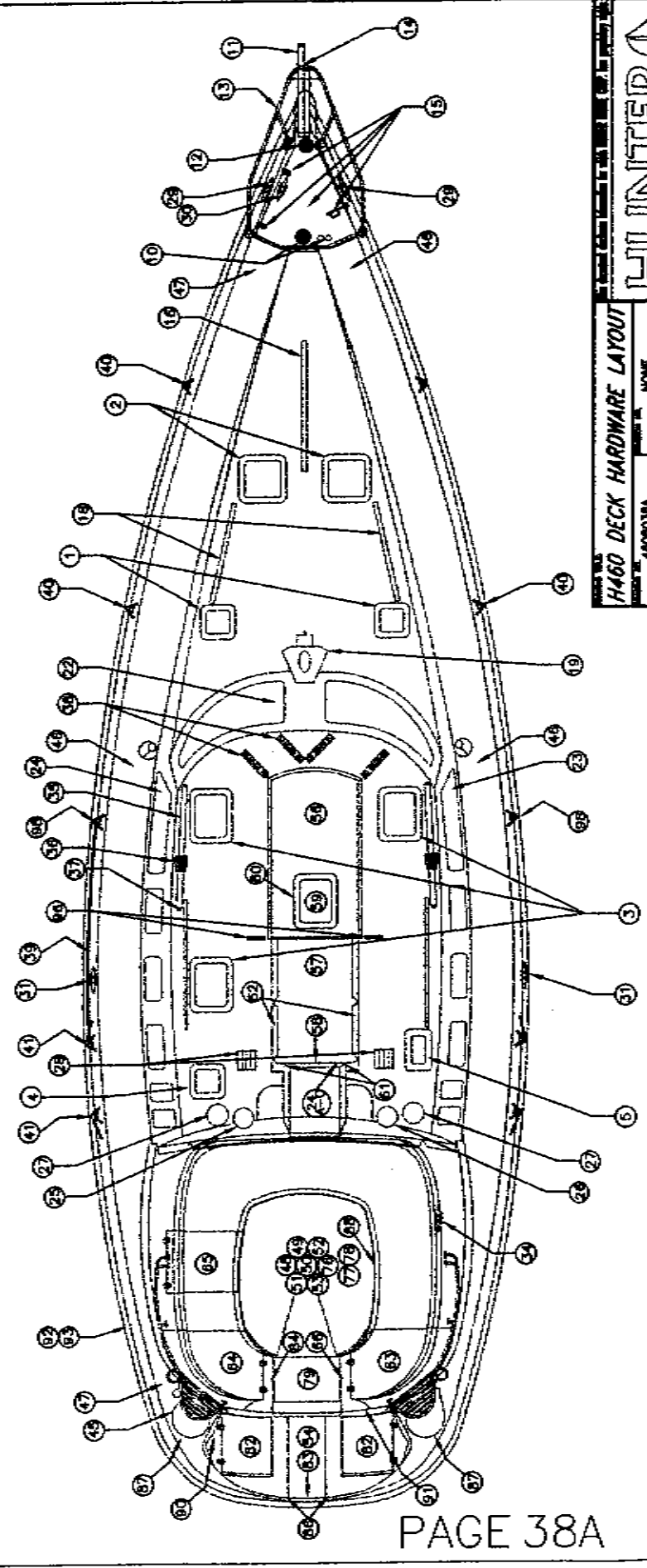
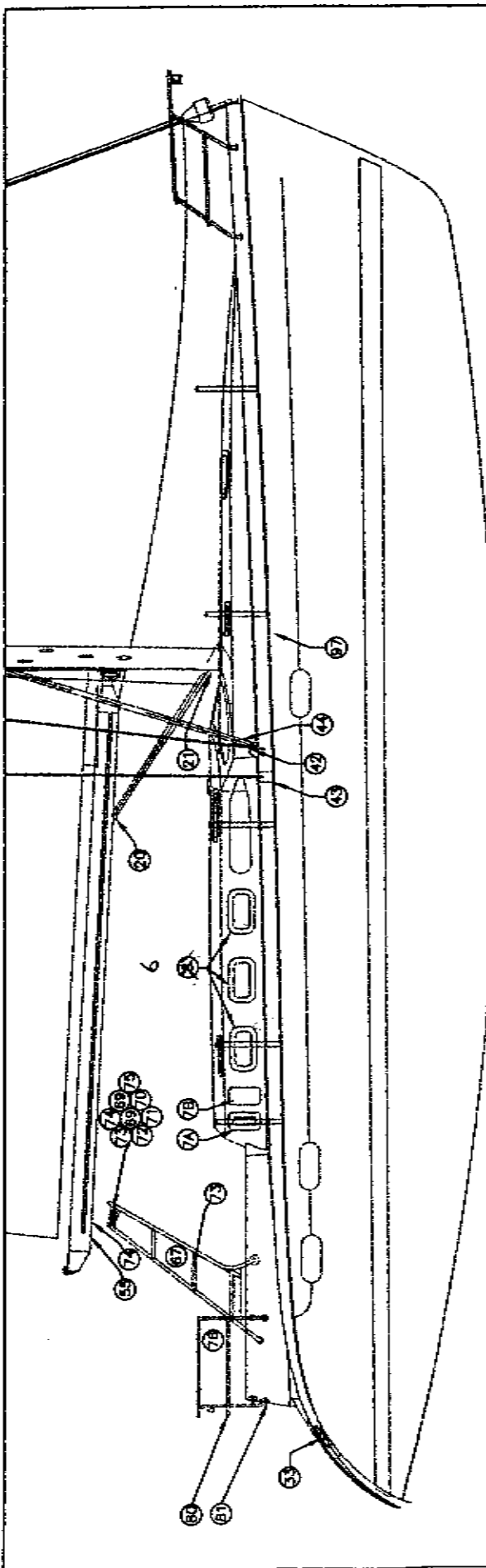
NOTE:
 STRUTS UTILIZED ON
 STANDARD MASTS
 ONLY.

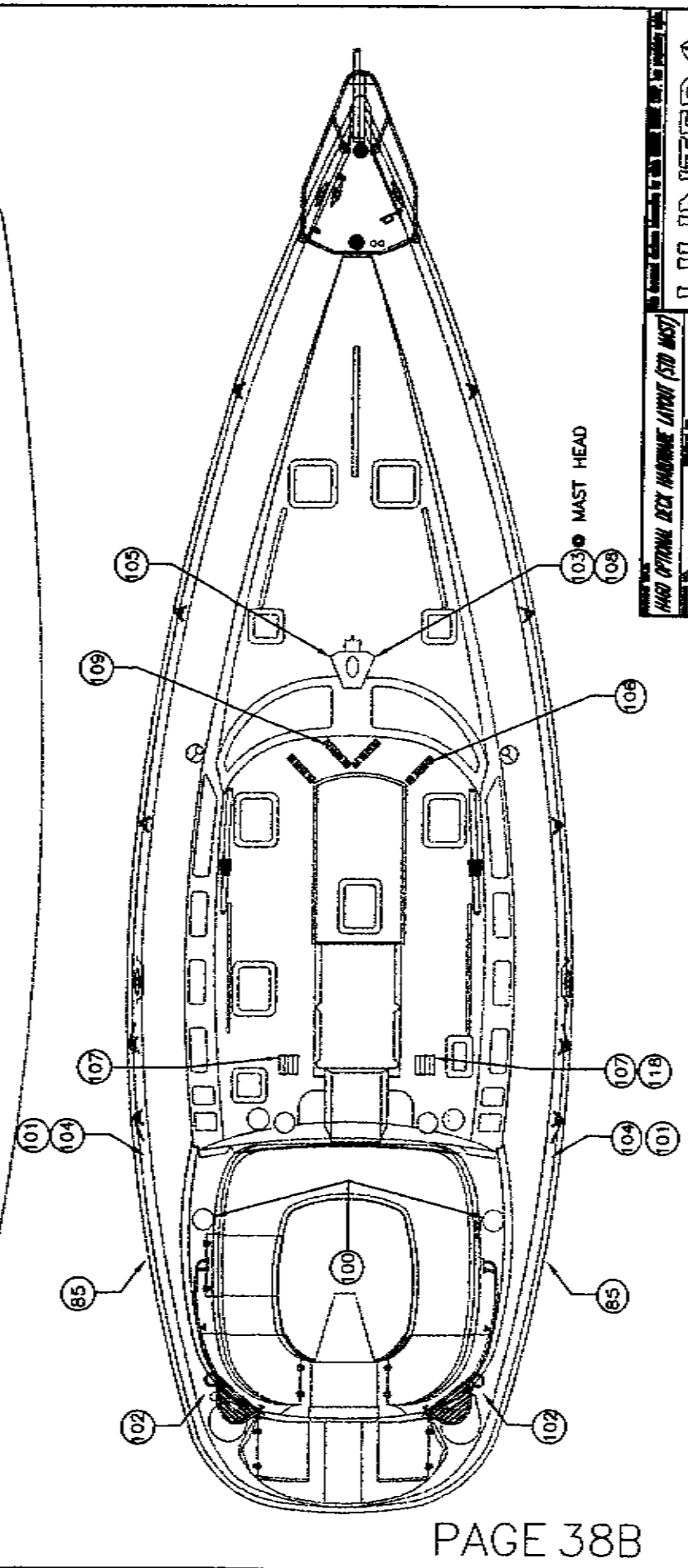
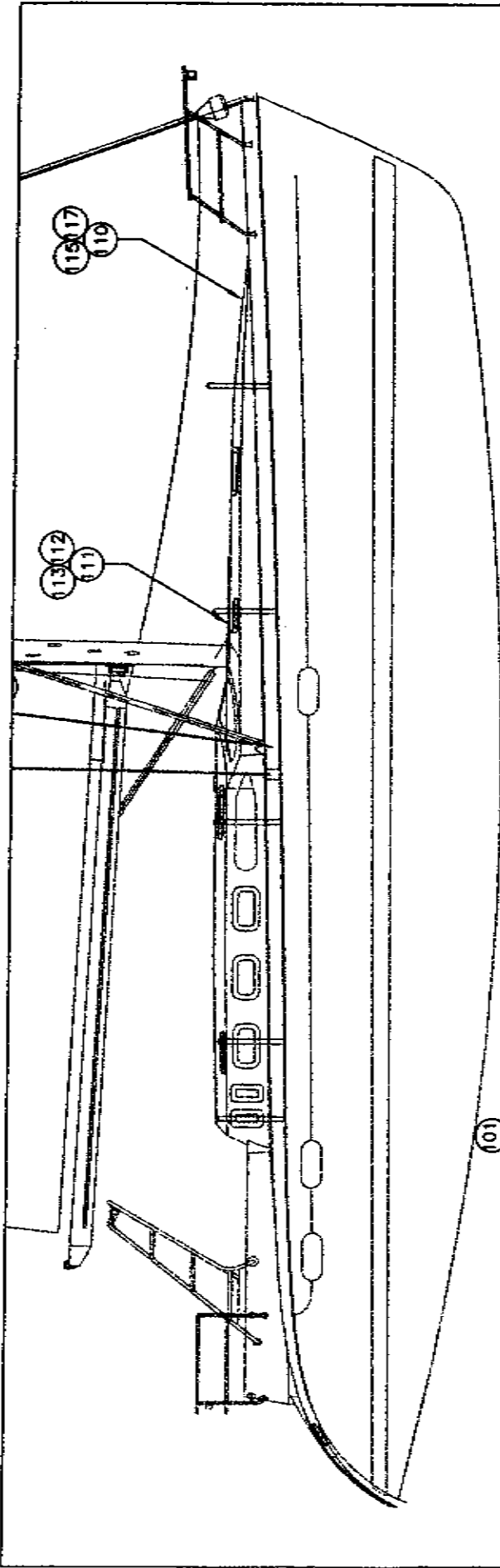


DIMENSIONS, CAPACITIES, ETC.

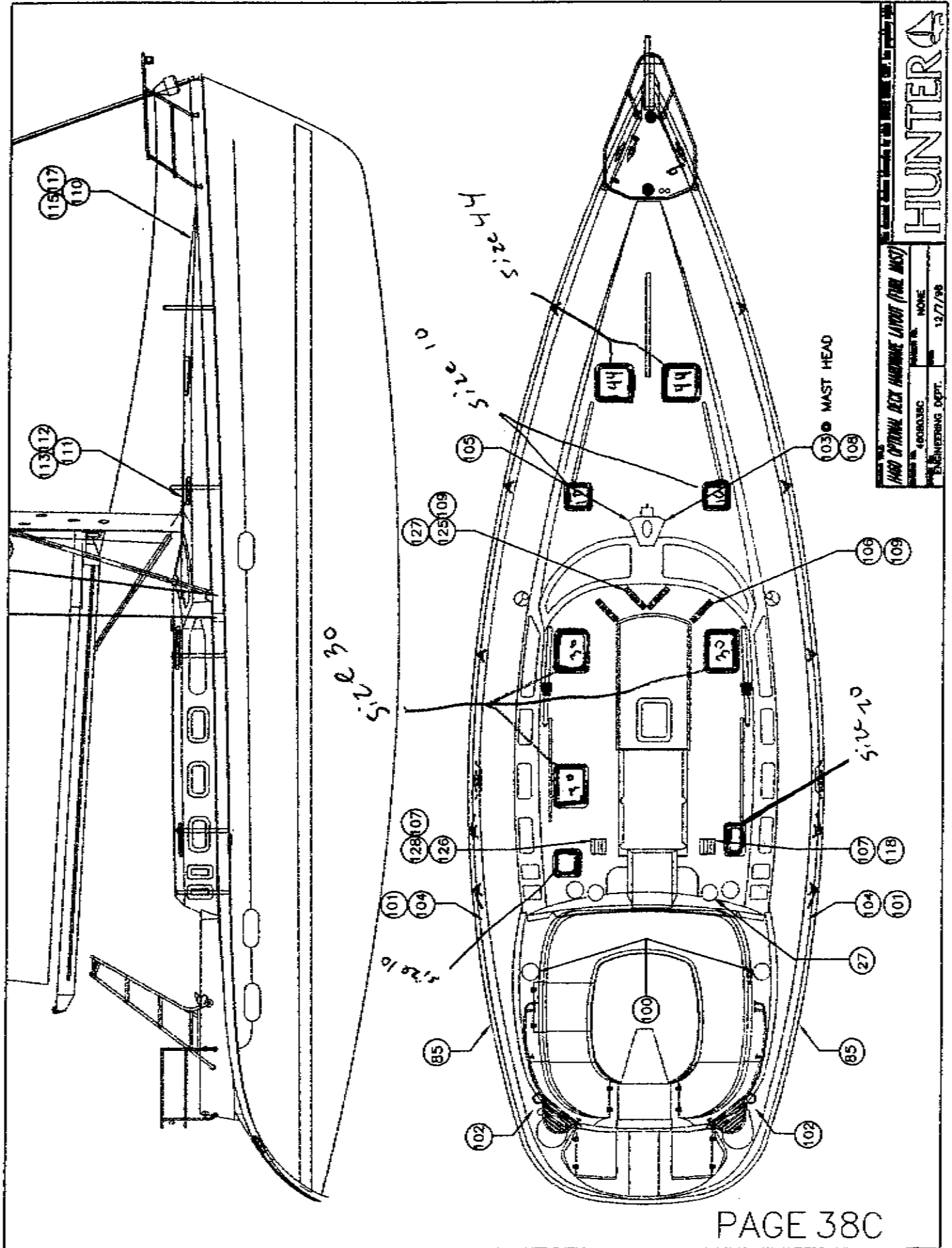
HUNTER 460

| | | |
|--|---|----------------------------------|
| LENGTH OVERALL (LOA)..... | 44'3" | 13.49m |
| LENGTH OF WATERLINE (LWL)..... | 38'8" | 11.79m |
| BEAM (MAX)..... | 14'0 | 4.27m |
| DRAFT | 5'6" | 1.68m |
| DISPLACEMENT..... | 28,000 lbs. | 12,698 kg |
| BALLAST | 9,500 lbs. | 4,309 kg |
| | | |
| SAIL AREA (100% TRAIANGLES)..... | 908.1 sq. ft. | 84.4 sq.m |
| SAIL AREA (ACTUAL W/STANDARD SAILS)..... | 1155 sq. ft. | 81.29 sq.m |
| I..... | 55.26 ft. | 16.84m |
| J..... | 17.16 ft. | 5.23m |
| P..... | 50.42 ft. | 15.37m |
| E..... | 17.91 ft. | 5.45m |
| MAST HEIGHT (FROM WATERLINE)..... | 62' 9" | 19.13m |
| | | |
| HEADROOM..... | 6'6" | 1.98m |
| | | |
| WATER CAPACITY..... | 200 U.S. gal. | 757 liters |
| HOLDING TANK CAPACITY..... | 50 U S gal. | 189 liters |
| FUEL TANK CAPACITY..... | 100 US gal. | 378 liters |
| LPG TANK CAPACITY..... | 10 lbs. | 4.54 kg |
| | | |
| BATTERY CAPACITY..... | 85 amp (1) 235 amp (2) | START BATTERY HOUSE BATTERIES |
| ELECTRICAL VOLTAGES..... | 12 V.D.C./ 110 V.A.C. (SELECT OVERSEAS MODELS 220 V) | |
| INBOARD ENGINES..... | 62 hp 76 hp OPTIONAL | 37.3 kw 47.3 kw OPTIONAL |
| OPTIONAL GENERATOR..... | | 6 kw |
| MAXIMUM LOADING..... | 10 PEOPLE | 2460 kg (INCLUDING LUGGAGE) |
| LIFTING POINTS..... | INDICATED BY "SLING" LABELS ON HULL | |
| PROP DIAMETER & PITCH | 2 BLADE | |
| YANMAR 4JH2TE (62 H.P.) | 18" X 17 R.H.(457.2mm X 431.8mm) | |
| YANMAR 4JH2HTE (76 H.P.) | NOT OFFERED | |
| | 3 BLADE | |
| YANMAR 4JH2TE (62 H.P.) | 18" X 16 R.H.(457.2mm X 406.4mm) | |
| YANMAR 4JH2HTE (76 H.P.) | 18" X 17 R.H.(457.2mm X 431.8mm) | |





HUNTER
 HAD OPTIMAL DECK HARDWARE LAYOUT (530 HRS)
 14000398
 NAME: NONE
 DATE: 12/7/96
 ENGINEERING DEPT.



HUNTER

HARD OPTIMAL DECK HARDWARE LAYOUT (700L MMS)

4800338C

DATE: 12/7/98

ENGINEERING DEPT.

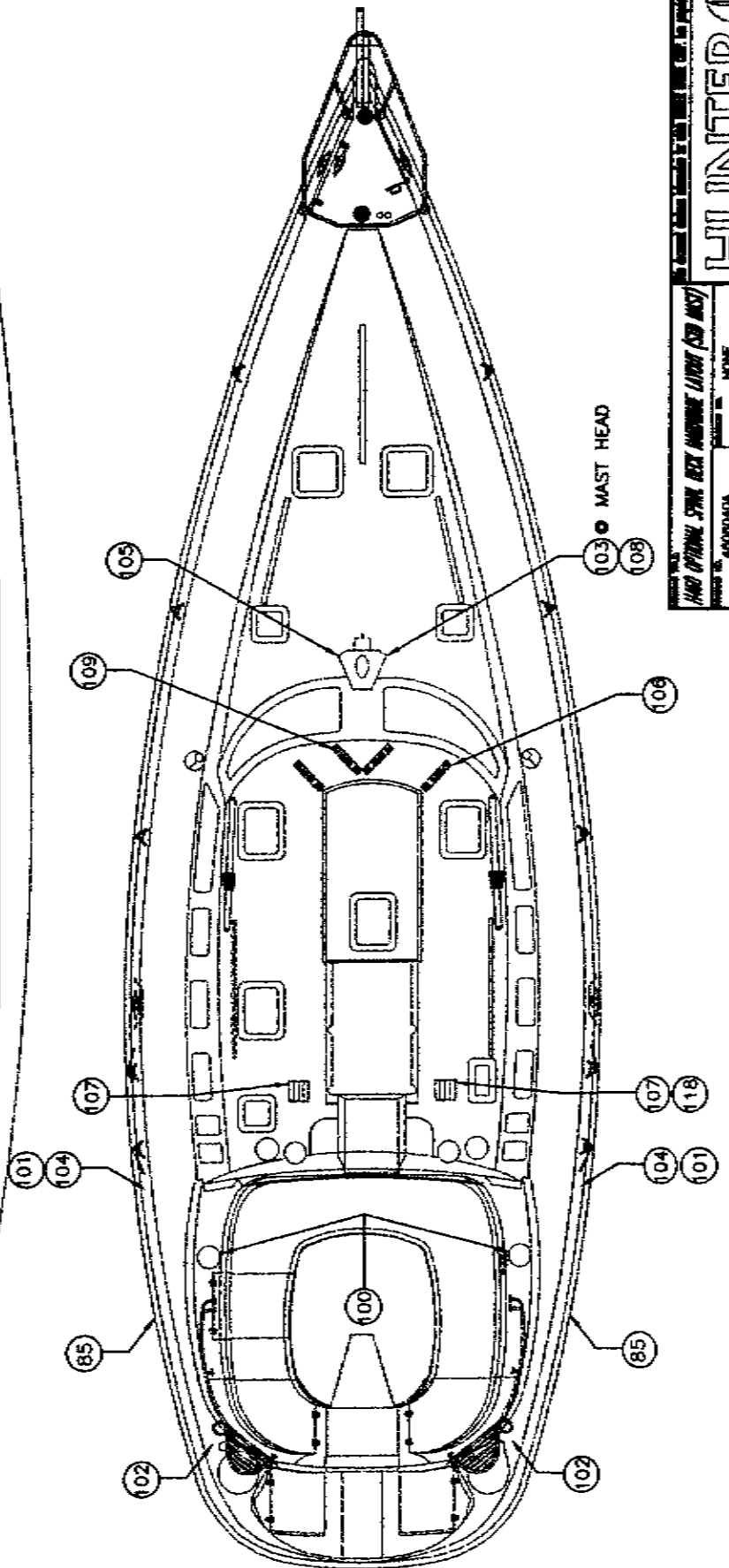
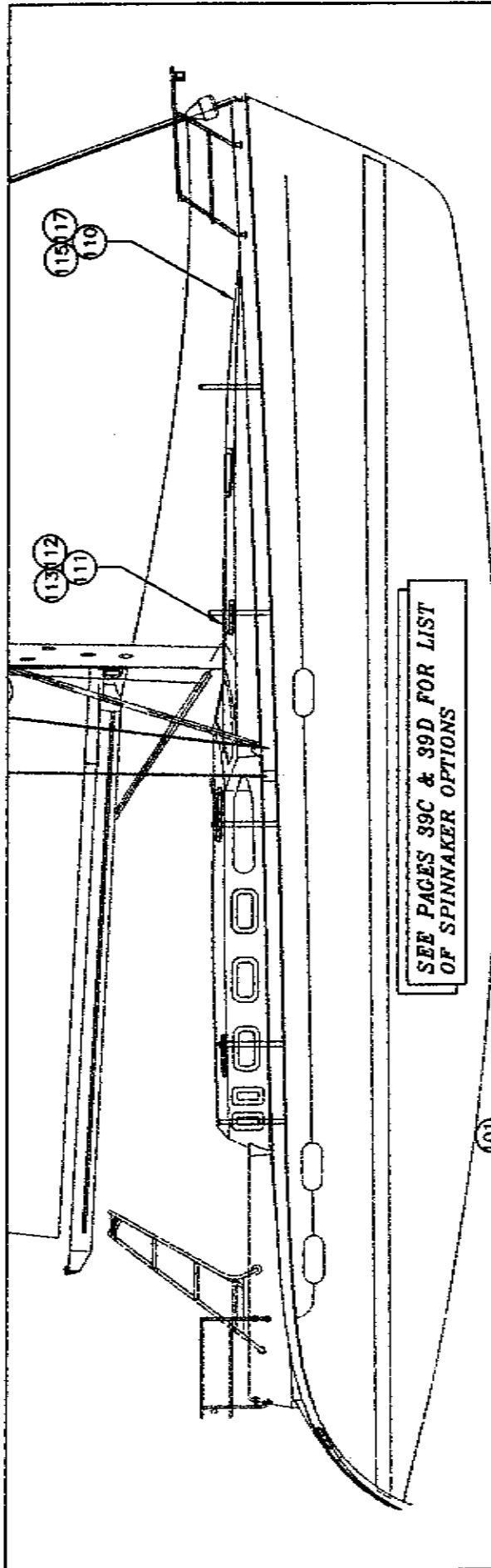
NO. NONE

| REVISION # | 3/23/89 | | | | | |
|---------------------------|------------------------|------------------------|------------------|----------------|-------|-----------------|
| HUNTER P460 DECK HARDWARE | | | | | | |
| | GEN. DESCR. | LOC. & TYPE | VENDOR | MDL/NAME# | #REQ. | PART # DWG # |
| 1 | HATCH | FWD. HEAD | LEWMAR | COAST S-10 | 2 | 300210 |
| | SCREEN | " | " | " | 2 | 300220 |
| | TRIM RING | " | " | " | 2 | 300230 |
| 2 | HATCH | FWD.S/R CABIN TOP | LEWMAR | COAST S-44 | 2 | NEW |
| | SCREEN | " | " | " | | NEW |
| | TRIM RING | " | " | " | | NEW |
| 3 | HATCH | MAIN SALOON & GALLEY | LEWMAR | COAST S-30 | 3 | 301050 |
| | SCREEN | " | " | " | 3 | 301060 |
| | TRIM RING | " | " | " | 3 | 301070 |
| 4 | HATCH | GALLEY | LEWMAR | COAST S-10 | 1 | 300210 |
| | SCREEN | " | " | " | 1 | 300220 |
| | TRIM RING | " | " | " | 1 | 300230 |
| 5 | HATCH | AFT HEAD | LEWMAR | COAST S20 | 1 | 300910 |
| | SCREEN | " | " | " | 1 | 300920 |
| | TRIM RING | " | " | " | 1 | 300940 |
| 6 | HATCH | HOUSE SIDE | LEWMAR | COAST S-20 | 8 | 300910 |
| | SCREEN | " | " | " | 8 | 300920 |
| | TRIM RING | " | " | " | 8 | 300940 |
| 7A | PORTLIGHT | HOUSE SIDE | LEWMAR | SIZE 0 | 2 | 300484 |
| | SCREEN | " | " | " | 2 | 300490 |
| 7B | AFT FIXED CABIN WINDOW | P & S AFT HOUSE SIDE | NO. FLORIA GLASS | PLEXI | 2 | 425540 |
| 8 | FIXED PORTLIGHT | HULL SIDE | | | 3 | 424660 |
| | TRIM RING | " | | | 3 | 300290 |
| 9 | FIXED PORTLIGHT | HULL SIDE | LEWMAR | | 2 | 300850 |
| | SCREEN | " | " | " | 2 | 300880 |
| 10 | WINDLASS | ANCHOR LKR. | HORIZON | 1500GD | 1 | 310520 |
| | DUAL CONTROL BOX | WINDLASS | | | 1 | 310550 |
| | DECK SWITCH - UP | WINDLASS | | | 1 | 310570 |
| | DECK SWITCH - DOWN | WINDLASS | | | 1 | 310600 |
| 11 | BOW ROLLER | BOW | HUNTER | 450 | 1 | 304400 4462044A |
| 12 | FURLING UNIT | STEM | FURLEX | | 1 | NEW N/A |
| 13 | BOW RAIL | BOW | HUNTER | C/O 450 | 1 | 307820 4462024A |
| 14 | BOW LIGHT | ON BOW PULPIT | C/O 410 | EL0344 | 1 | 255806 |
| 15 | ANCHOR HATCH | BOW | | FIBERGLASS | 1 | N/A |
| | ANCHOR LATCH (HANDLE) | ANCHOR LOCKER | | C/O 450 | 1 | 315700 N/A |
| | STRIKER PLATE | ANCHOR LOCKER | | C/O 450 | 1 | 309740 |
| | HINGE | ANCHOR LOCKER | | C/O 450 | 2 | 315059 |
| | EYE STRAP | ANCHOR LOCKER | | C/O 450 | 4 | 315590 |
| | BUNGEE CORD | ANCHOR LOCKER | | C/O 450 | 1 | 318530 |
| 16 | HANDRAILS | FWD. TRUNK CENTER | 48" | WOOD | 1 | |
| 17 | HANDRAILS | FWD TRUNK EDGE | 24" | WOOD | 2 | |
| 18 | HANDRAILS | CABIN TOP | 48" | WOOD | 2 | |
| 19 | MAST STEP | MID DECK | SELDEN | 450 | 1 | |
| 20 | VANG BLOCK | | SCHAEFER | 705-55 | 1 | 302630 |
| 21 | VANG BLOCK | | SCHAEFER | 705-45 | 1 | 302340 |
| 22 | CABIN WINDSHIELD | | NO. FLORIA GLASS | NEW DESIGN | 1 SET | P4655 N/A |
| 23 | CABIN SIDE PLEXI (P&S) | FWD END OF CABIN SIDES | NO. FLORIA GLASS | NEW DESIGN | 1 SET | P4614 |
| 24A | PIN BOARDS-TOP | COMPANIONWAY | NO. FLORIA GLASS | PLEXI (TOP) | 1 | P4612 |
| 24B | PIN BOARDS-MID | COMPANIONWAY | NO. FLORIA GLASS | PLEXI (MID) | 1 | P4613 |
| 24C | PIN BOARDS-BOTTOM | COMPANIONWAY | NO. FLORIA GLASS | PLEXI (BOTTOM) | 1 | P4624 |
| 25 | WINCH | HALYARD | LEWMAR | COAST STD.44ST | 1 | 308620 |
| 26 | WINCH | HALYARD-ELEC. | LEWMAR | COAST 48EST | 1 | 308890 |
| 27 | WINCH | COCKPIT / JIB SHEET | LEWMAR | COAST 48ST | 2 | 308630 |
| 28 | SHEETSTOPPER | PORT & STBD | SPINNLOCK | XT/3 TRIPLE | 2 | 304020 |
| 29 | CLEAT | BOW | NORTH/JUDD | 14051 | 2 | 308835 |
| 30 | CLEAT | ANCHOR LOCKER | NORTH/JUDD | 14051 | 1 | 308835 |
| 31 | CLEAT | MIDSHIPS | NORTH/JUDD | 14051 | 2 | 308835 |
| 33 | CLEAT | STERN | NORTH/JUDD | 14051 | 2 | 308835 |
| 34 | CLEAT (FURL) | ON ARCH | 4" SILVER | C/O 450 | 1 | 303850 |
| 35 | JIB TRACK | MID TRUNK | SCHAEFER | C/O 450 | 2 | 303152 |
| 36 | JIB CARS | | SCHAEFER | C/O 450 | 2 | 302190 |
| 37 | JIB TRACK ENDS | | SCHAEFER | C/O 450 | 4 | 302170 |
| 38 | DK. ORGANIZER (TRIPLE) | 2 PORT & 2 STBD@ MAST | HARKEN | 1590 | 4 | 303305 |
| 39 | LIFE LINES | ABOVE GUNN'LS | | | | NEW |
| 40 | STANCHION W/ BASE | ALONG GUNN'LS | | C/O 410 | 6 | 305140 N/A |
| 41 | STANCHION GATE | PORT AND STARBOARD | | 380 GATE FWD | 2 PR | 304975 |

| REVISION # | HUNTER P460 DECK HARDWARE | | | | | | |
|------------|--------------------------------|----------------------|--------------|----------------|-------|--------|----------|
| | GEN.DESCR. | LOC. & TYPE | VENDOR | MDL/NAME# | #REQ. | PART # | DWG # |
| 42 | CHAIN PLATE | UPPER SHROUD | NEW DESIGN | | 2 | NEW? | |
| 43 | CHAIN PLATE | LOWER SHROUD | NEW DESIGN | | 2 | NEW? | 4462020A |
| 44 | STRUTS | MAST | NEW LENGTH | | 2 | NEW? | 4462034A |
| 45 | FILL PLATE | DIESEL | | PL1126 | 1 | 356181 | 4462037A |
| 46 | FILL PLATE | WATER | | PL1130 | 3 | 356199 | |
| 47 | FILL PLATE | WASTE | | PL1140 | 2 | 356217 | |
| 48 | STEERING CONSOLE | IN COCKPIT | HUNTER | C/O360 | 1 | | *** |
| 49 | WHEEL | WHITEWATER | 42" | WHITEWATER | 1 | 310850 | |
| 50 | STEERING SYSTEM | IN CONSOLE | EDSON | C/O 380 | 1 | 311630 | |
| | | | | | 1 | 311695 | |
| 51 | SHIFT CONTROL | PEDESTAL | | C/O 410 | 1 | | N/A |
| 52 | QUAD COVER | COCKPIT | C/O 380 | GLASS PART | 1 | | *** |
| 53 | GRABRAIL, AFT CONSOLE | STEERING CONSOLE | C/O 380 | | 1 EA | 307130 | *** |
| | GRAB HANDLE, CONSOLE | STEERING CONSOLE | C/O 380 | | | 305080 | *** |
| 54 | EMERG.TILL ACCESS | IN QUAD COVER | | C/O 380 | 1 | 300520 | |
| 55 | MAINSHEET BLOCK | AFT END BOOM | HARKEN | | | 303302 | |
| 56 | SEA HOOD | FWD OF COMPANIONWAY | | NEW DESIGN | 1 | | N/A |
| 57 | SLIDING HATCH | COMPANIONWAY | | NEW LENGTH | 1 | P4628 | |
| 58 | SLIDER STOP | COMPANIONWAY HATCH | HUNTER | STARBOARD | 1 | | |
| 59 | SOLAR PANEL | ON SEA HOOD | | C/O 410 | 1 | 258092 | |
| 60 | SOLAR PANEL MOUNT PLATE | | ON SEA HOOD | GLASS PART | 1 | | 4462027A |
| 61 | COMPANIONWAY TRACK/SLIDER | | HUNTER | | 1 PR | P4632 | |
| 62 | COMPANIONWAY HANDRAIL | COMPANIONWAY | | SOUTHCOAST | PR | 307280 | |
| 63 | STBD GULLWING SEAT | COCKPIT | HUNTER | C/O 380 | 1 | FRP | *** |
| | HINGES | GULLWING | | C/O 380 | 2 | 314900 | *** |
| | EYE STRAP | GULLWING | | | | 315590 | |
| 64 | PORT GULLWING SEAT | COCKPIT | HUNTER | C/O 380 | 1 | FRP | *** |
| | HINGES | GULLWING | | | 2 | 314900 | |
| | EYE STRAP | GULLWING | | | | 315590 | |
| 65 | EURO HATCH | COCKPIT | HUNTER | C/O 380 | 1 | FRP | *** |
| | EURO HATCH HINGE | | | | 2 | 314900 | |
| | SPRING CLAMP | EURO HATCH | | 502-2 | PR | 303800 | |
| | SPRING CLAMP | EURO HATCH | | 502-1 | PR | 303790 | *** |
| | EYE STRAP | EURO HATCH | | | 2 | 315590 | |
| 66 | MANUAL BILGE PUMP | IN COCKPIT | C/O 410 | PL0371 | 1 | 352185 | N/A |
| 67 | ARCH | ABOVE COCKPIT | HUNTER | STAINLESS | 1 | | *** |
| 68 | MAINSHEET TRAVELER TRACK | ON ARCH | HARKEN 516-5 | AS ON 450 | 1 | | |
| 70 | CONTROL BLOCK | | HARKEN 1845 | MOUNTED ON CAR | 2 | | |
| 72 | FIXED CONTROL BLOCK | MOUNTED ON ARCH | HARKEN 132 | | 2 | | |
| 73 | CLEAT AND BLOCK | PIVOTING EXIT BLOCK | HARKEN 141 | PIVOTING BLOCK | 2 | | |
| 74 | SHACKLE | 5/16" D SHACKLE | | INVENTORY | 2 | | |
| 75 | TRAVELER CAR | AS PER 450 | HARKEN 1928 | | 1 | | |
| 76 | ENGINE PANEL | ON COCKPIT CONSOLE | YANMAR "C" | C/O 450 | 1 | 312130 | |
| 77 | LIGHT ON CONSOLE | ON ARCH | | C/O 380 | 1 | | 4465007A |
| 78 | SPEAKERS | ON COCKPIT CONSOLE | | C/O 380 | 2 | | |
| 79 | HELM SEAT | COCKPIT | HUNTER | C/O 380 | 1 | FRP | *** |
| | HINGES | HELM SEAT | | C/O 380 | 2 | 314920 | |
| | RUBBER LATCHES | HELM SEAT | | C/O 380 | 2 | 315430 | |
| | EYE STRAP | HELM SEAT | | C/O 380 | 2 | 315590 | |
| 80 | STERN RAIL | STERN | | C/O 380 | ST | 306785 | *** |
| 81 | STERN LIGHT | ON SERN RAIL | C/O 380 | EL0389 | 1 | 255878 | |
| 82 | SWIMSEAT LID | STERN | HUNTER | C/O 380 | 2 | FRP | *** |
| | HINGE (SWIMSEAT LOCKER) | STERN | | C/O 380 | 4 | 314900 | |
| | RUBBER LATCH | SWIMSEATS | | C/O 380 | 2 | 315430 | |
| 83 | SWIM LADDER | STERN | WINDLINE | C/O 380 | 1 | 303650 | 4462015A |
| 84 | COCKPIT SHOWER | COCKPIT | | | 1 | 351287 | |
| 86 | SWIM GRAB HANDLE | STERN | | C/O 410 | 2 | 307800 | N/A |
| 87 | LPG LOCKER LID | PORT COCKPIT COAMING | HUNTER | C/O 380 | 1 SET | FRP | *** |
| | PULL, PROPANE LOCKER | LPG LOCKER | | | 2 | 315023 | *** |
| | STAINLESS, 1/8 x1 304 TRUE BAR | | | C/O 380 | 2 | 705235 | *** |
| | EYE STRAP | LPG LOCKER | | C/O 380 | 4 | 315590 | *** |
| 88 | PORTLIGHT | COCKPIT | LEWMAR | | 1 | 300590 | *** |
| 89 | HATCH | HULLSIDE | LEWMAR | HW0074 | 2 | 300850 | *** |

| REVISION # | 3/23/99 | | | | | |
|-------------------------------------|-----------------------------|----------------------------------|----------------|---------------------------|--------|-----------|
| HUNTER P460 DECK HARDWARE | | | | | | |
| GEN.DESCR. | LOC. & TYPE | VENDOR | MDL/NAME/# | #REQ. | PART # | DWG # |
| 90 | SHORE WATER | | PL1175 | 1 | 331700 | |
| 91 | SHORE PWR. | TRANSOM | | 1 | 331780 | |
| " | " | " | " | 1 | 331820 | |
| 92 | RUBRAIL | GUNN'L | BARBOUR | 380 STYLE (ROUND) | 100 | NEW STYLE |
| 93 | KEEPER, RUBRAIL | GUNN'L | BARBOUR | | | NEW STYLE |
| 94 | CHEEK BLOCK (JOB SHEET) | AFT OUTBRD CABIN TOP | | | | 302760 |
| 96 | CHAFE GUARD | CABIN HOUSE TOP | HUNTER | SS CHAFE GUARD | 2 | P4666 |
| 97 | SS RUB RAIL INSERT | PT & STBD RUBRAIL | | SS RUB RAIL | | P4653 |
| 98 | SS VENTED STANCHION | PT & STBD SS VENTED STAN | HUNTER | SAME AS 420 | | 305145 |
| OPTIONAL GEAR (STD MAST) | | | | | | |
| SPIN OPTION | | | | | | |
| 100 | WINCH | COCKPIT / SPINN SHEET | LEWMAR | COAST STD.50ST | 2 | 308640 |
| 101 | SNATCH BLOCK | MID RAIL | SCHAEFER | 11-99 | 2 | 303143 |
| 102 | SPIN BLOCK | AFT RAIL | SCHAEFER | 10-15 | 2 | 303192 |
| 103 | SPIN. MAST BLOCK | MAST STEP | RUTGERSON | | 1 | 302263 |
| 104 | PADEYE | ON RAIL AFT OF GATE | SCHAEFER | 78-99 | 2 | 303740 |
| 105 | SPINNAKER MAST BLOCK | MAST HEAD | RUTGERSON | 600 W/SPRING | 1 | 302263 |
| 106 | DK ORGANIZER (QUAD) | PORT SIDE AT MAST | HARKEN | | 2 | 303307 |
| | | REPLACES ONE TRIPLE FROM ITEM 38 | | (REDUCE #38 TO 2) | | |
| 107 | SHEET STOPPER | PORT SIDE | SPINLOCK | XT/4 | 1 | 304030 |
| | | REPLACES ONE TRIPLE FROM ITEM 28 | | | | |
| SPINNAKKE SHEETS | | | | | | |
| STAYSAIL OPTION | | | | | | |
| 108 | STAYSAIL MAST BLOCK | MAST STEP | RUTGERSON | 600 W/SPRING | 1 | 302263 |
| 109 | DK ORGANIZER (QUAD) | STBD SIDE AT MAST | HARKEN | | 2 | 303307 |
| | | REPLACES ONE TRIPLE FROM ITEM 38 | | (REDUCE #38 TO 2) | | |
| 110 | INNER FORESTAY BASE | | SCHAEFER | | 1 | NEW |
| 111 | STRAP IFS | JUST FWD OF MAST | | C/O 450 | | 304270 |
| 112 | U-BOLT | JUST FWD OF MAST | | | | 318030 |
| 113 | PADEYE | FWD OF MAST | SCHAEFER 78-01 | | 2 | 303760 |
| 114 | HALYARD, STAYSAIL | IN MAST | | C/O 450 | | 400155?? |
| 115 | INNER FORESTAY, W/REL LEVER | | | C/O 450 | | 400185?? |
| 116 | SHEETS, STAYSAIL | | | C/O 450 | | 400170 |
| 117 | TURNBUCKLE | | | C/O 450 | | 400200 |
| 118 | SHEET STOPPER | STBD SIDE | SPINLOCK | XT/4 | 1 | 304030 |
| | | REPLACES ONE TRIPLE FROM ITEM 28 | | | | |
| SPIN & STAYSAIL OPTION | | | | | | |
| 100 | WINCH | COCKPIT / SPINN SHEET | LEWMAR | COAST STD.50ST | 2 | 308640 |
| 101 | SNATCH BLOCK | MID RAIL | SCHAEFER | 11-99 | 2 | 303143 |
| 102 | SPIN BLOCK | AFT RAIL | SCHAEFER | 10-15 | 2 | 303192 |
| 103 | SPIN. MAST BLOCK | MAST STEP | RUTGERSON | | 1 | 302263 |
| 104 | PADEYE | ON RAIL AFT OF GATE | SCHAEFER | 78-99 | 2 | 303740 |
| 105 | SPINNAKER MAST BLOCK | MAST STEP | RUTGERSON | 600 W/SPRING | 1 | 302263 |
| 106 | DK ORGANIZER (QUAD) | PORT & STBD | HARKEN | | 4 | 303307 |
| | | REPLACES ITEM 38 | | | | |
| 107 | SHEET STOPPER | PORT & STBD | SPINLOCK | XT/4 | 2 | 304030 |
| | | REPLACES ITEM 28 | | | | |
| 108 | STAYSAIL MAST BLOCK | MAST STEP | RUTGERSON | 600 W/SPRING | 1 | 302263 |
| | | | | | | |
| 110 | INNER FORESTAY BASE | | SCHAEFER | | 1 | NEW |
| 111 | STRAP IFS | JUST FWD OF MAST | | C/O 450 | | 304270 |
| 112 | U-BOLT | JUST FWD OF MAST | | | | 318030 |
| 113 | PADEYE | FWD OF MAST | SCHAEFER 78-01 | | | 303760 |
| 114 | HALYARD, STAYSAIL | IN MAST | | 7/16 X 107'?????? C/O 450 | | 400155?? |
| 115 | INNER FORESTAY, W/REL LEVER | | | 1x19 x44'???? C/O 450 | | 400185?? |
| 116 | SHEETS, STAYSAIL | | | 7/16x40' C/O 450 | | 400170 |
| 117 | TURNBUCKLE | | | 1/4" T-BOLT W/TOX C/O 450 | | 400200 |
| OPTIONAL GEAR (FURLING MAST) | | | | | | |
| FURLING, NO SPIN OR STAYSAIL | | | | | | |
| 125 | DK ORGANIZER (QUAD) | PORT SIDE AT MAST | HARKEN | | 2 | 303307 |
| | | REPLACES ONE TRIPLE FROM ITEM 38 | | (REDUCE #38 TO 2) | | |
| 126 | SHEET STOPPER | PORT SIDE | SPINLOCK | XT/4 | 1 | 304030 |
| | | REPLACES ONE TRIPLE FROM ITEM 28 | | | | |

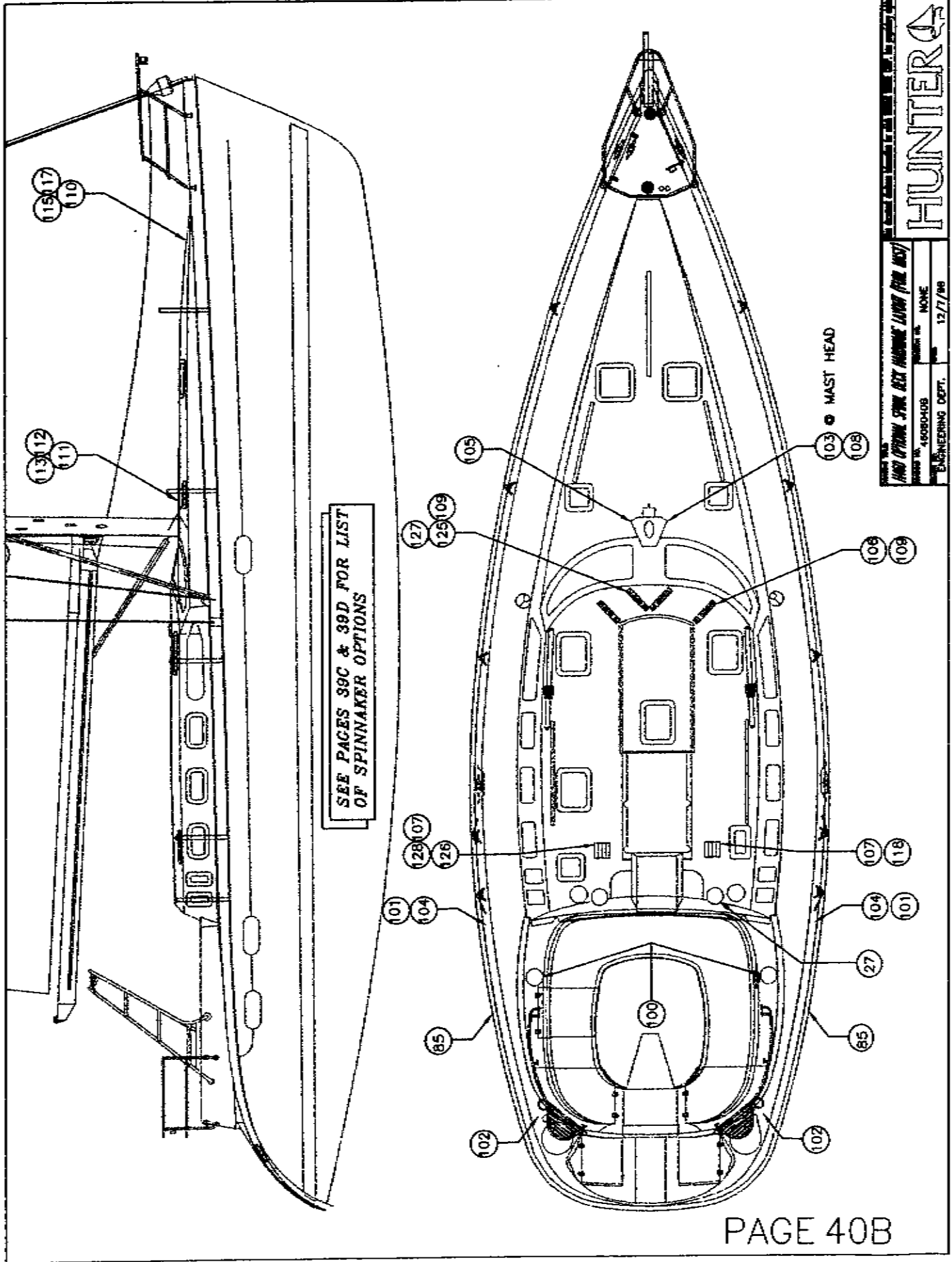
| REVISION # | 3/23/99: | | | | | | |
|-----------------------------------|-----------------------------|----------------------------------|--------------------|-------------------|--------|----------|--|
| HUNTER P460 DECK HARDWARE | | | | | | | |
| GEN.DESCR. | LOC. & TYPE | VENDOR | MDL/NAME# | #REQ. | PART # | DWG # | |
| SPIN OPTION | | | | | | | |
| 100 | WINCH | COCKPIT / SPINN.SHEET | LEWMAR | COAST STD.50ST | 2 | 308640 | |
| 101 | SNATCH BLOCK | MID RAIL | SCHAEFER | 11-99 | 2 | 303143 | |
| 102 | SPIN BLOCK | AFT RAIL | SCHAEFER | 10-15 | 2 | 303192 | |
| 103 | SPIN. MAST BLOCK | MAST STEP | RUTGERSON | | 1 | 302263 | |
| 104 | PADEYE | ON RAIL AFT OF GATE | SCHAEFER | 78-99 | 2 | 303740 | |
| 105 | SPINNAKER MAST BLOCK | MAST HEAD | RUTGERSON | 600 W/SPRING | 1 | 302263 | |
| 127 | ORGANIZER, 3DECK STACK | PORT SIDE AT MAST | HARKEN | 1503 | 2 | 303370 | |
| | | REPLACES ONE TRIPLE FROM ITEM 38 | | (REDUCE #38 TO 2) | | | |
| 107 | SHEET STOPPER | PORT SIDE | SPINLOCK | XT/4 | 1 | 304030 | |
| | | REPLACES ONE TRIPLE FROM ITEM 28 | | | | | |
| 128 | SHEET STOPPER | PORT SIDE | SPINLOCK | XT/H | 1 | ??? | |
| STAYSAIL OPTION | | | | | | | |
| 85 | PADEYE | ON RAIL AMIDSHIPS | SCHAEFER | 78-99 | 2 | 303775 | |
| 108 | STAYSAIL MAST BLOCK | MAST STEP | RUTGERSON | 600 W/SPRING | 1 | 302263 | |
| 109 | DK ORGANIZER (QUAD) | PORT & STBD AT MAST | HARKEN | | 4 | 303307 | |
| | | REPLACES ITEM 38 | | | | | |
| 110 | INNER FORESTAY BASE | | SCHAEFER | | 2 | NEW | |
| 111 | STRAP IFS | JUST FWD OF MAST | | C/O 450 | | 304270 | |
| 112 | U-BOLT | JUST FWD OF MAST | | | | 318030 | |
| 113 | PADEYE | FWD OF MAST | SCHAEFER 78-01 | | | 303760 | |
| 114 | HALYARD, STAYSAIL | IN MAST | 7/16 X 107'??????? | C/O 450 | | 400155?? | |
| 115 | INNER FORESTAY, W/REL LEVER | | 1x19 x44'????? | C/O 450 | | 400185?? | |
| 116 | SHEETS, STAYSAIL | | 7/16x40' | C/O 450 | | 400170 | |
| 117 | TURNBUCKLE | | 1/4" T-BOLT W/TGC | C/O 450 | | 400200 | |
| 118 | SHEET STOPPER | STBD SIDE | SPINLOCK | XT/4 | 2 | 304030 | |
| | | REPLACES ITEM 28 | | | | | |
| SPIN & STAYSAIL OPTION | | | | | | | |
| 100 | WINCH | COCKPIT / SPINN.SHEET | LEWMAR | COAST STD.50ST | 2 | 308640 | |
| 101 | SNATCH BLOCK | MID RAIL | SCHAEFER | 11-99 | 2 | 303143 | |
| 102 | SPIN BLOCK | AFT RAIL | SCHAEFER | 10-15 | 2 | 303192 | |
| 103 | SPIN. MAST BLOCK | MAST HEAD | RUTGERSON | | 1 | 302263 | |
| 104 | PADEYE | ON RAIL AFT OF GATE | SCHAEFER | 78-99 | 4 | 303740 | |
| 105 | SPINNAKER MAST BLOCK | MAST STEP | RUTGERSON | 600 W/SPRING | 1 | 302263 | |
| 127 | ORGANIZER, 3DECK STACK | PORT SIDE AT MAST | HARKEN | 1503 | 2 | 303370 | |
| | | REPLACES ONE TRIPLE FROM ITEM 38 | | (REDUCE #38 TO 2) | | | |
| 107 | SHEET STOPPER | PORT SIDE | SPINLOCK | XT/4 | 1 | 304030 | |
| | | REPLACES ONE TRIPLE FROM ITEM 28 | | | | | |
| 128 | SHEET STOPPER | PORT SIDE | SPINLOCK | XT/H | 1 | ??? | |
| 108 | STAYSAIL MAST BLOCK | MAST STEP | RUTGERSON | 600 W/SPRING | 1 | 302263 | |
| 109 | DK ORGANIZER (QUAD) | PORT & STBD AT MAST | HARKEN | | 4 | 303307 | |
| | | REPLACES ITEM 38 | | | | | |
| 110 | INNER FORESTAY BASE | | SCHAEFER | | 1 | NEW | |
| 111 | STRAP IFS | JUST FWD OF MAST | | C/O 450 | | 304270 | |
| 112 | | JUST FWD OF MAST | | | | 318030 | |
| 113 | PADEYE | FWD OF MAST | SCHAEFER 78-01 | | 2 | 303760 | |
| 114 | HALYARD, STAYSAIL | IN MAST | 7/16 X 107'??????? | C/O 450 | | 400155?? | |
| 115 | INNER FORESTAY, W/REL LEVER | | 1x19 x44'????? | C/O 450 | | 400185?? | |
| 116 | SHEETS, STAYSAIL | | 7/16x40' | C/O 450 | | 400170 | |
| 117 | TURNBUCKLE | | 1/4" T-BOLT W/TGC | C/O 450 | | 400200 | |
| 118 | SHEET STOPPER | STBD SIDE | SPINLOCK | XT/4 | 2 | 304030 | |
| | | REPLACES ONE ITEM 28 | | | | | |



HUNTER

HARD OPTIMAL SPIN ACFT ANTIWAVE LIGHT (300 INCH)

| | | | |
|-------------------|-----------|------|---------|
| MODEL NO. | 46000-01A | NOTE | |
| ENGINEERING DEPT. | | DATE | 12/7/88 |



SEE PAGES 39C & 39D FOR LIST OF SPINNAKER OPTIONS

HUNTER

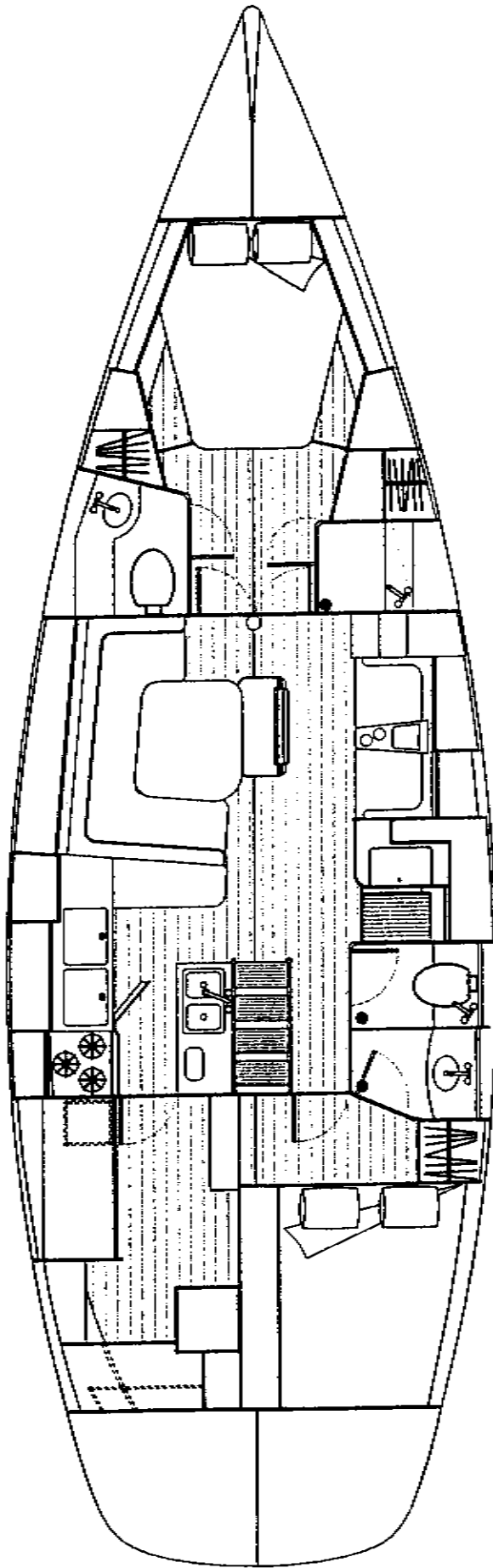
1981 OPTION SPINNAKER LISTING (FOR INFO)

DATE: 12/17/88

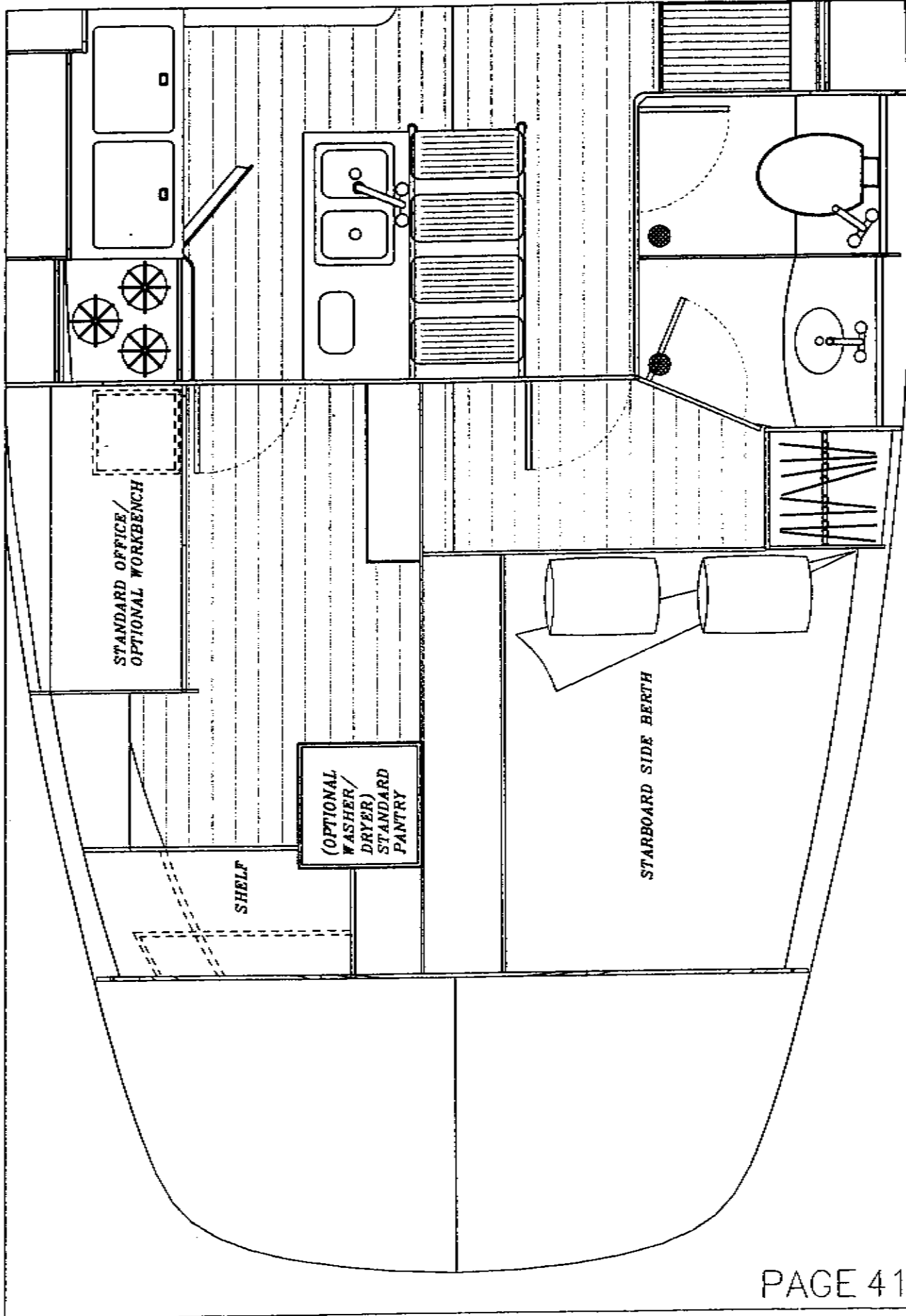
DESIGNER: NONE

ENGINEERING DEPT.

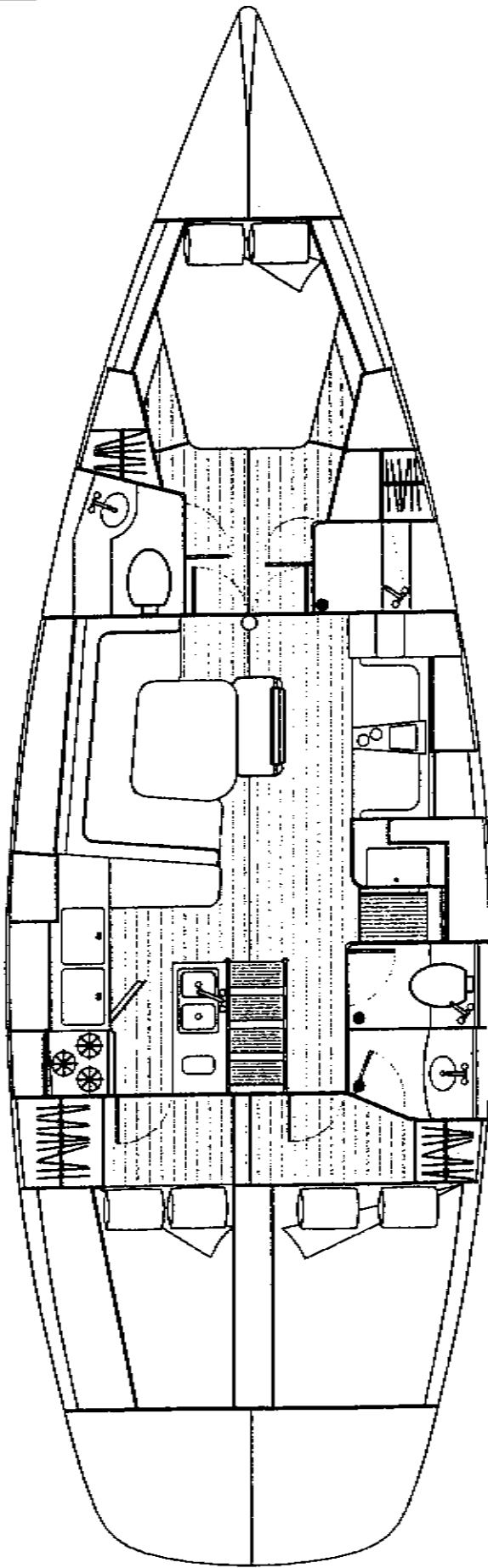
460 STANDARD INTERIOR



| | |
|---|----------|
| HUNTER | |
| 460 STANDARD CABIN INTERIOR LAYOUT | |
| PROJECT NO. 460R041A | PHONE |
| ENGINEERING DEPT. | 11/12/98 |



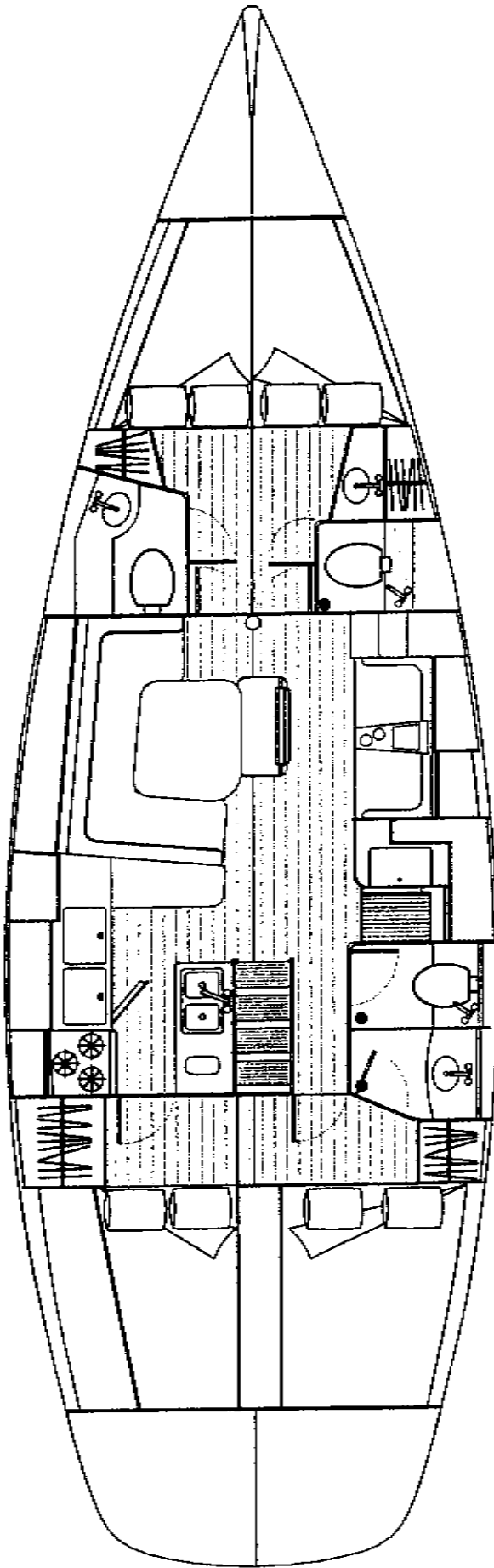
460 TRI CABIN OPTION INTERIOR



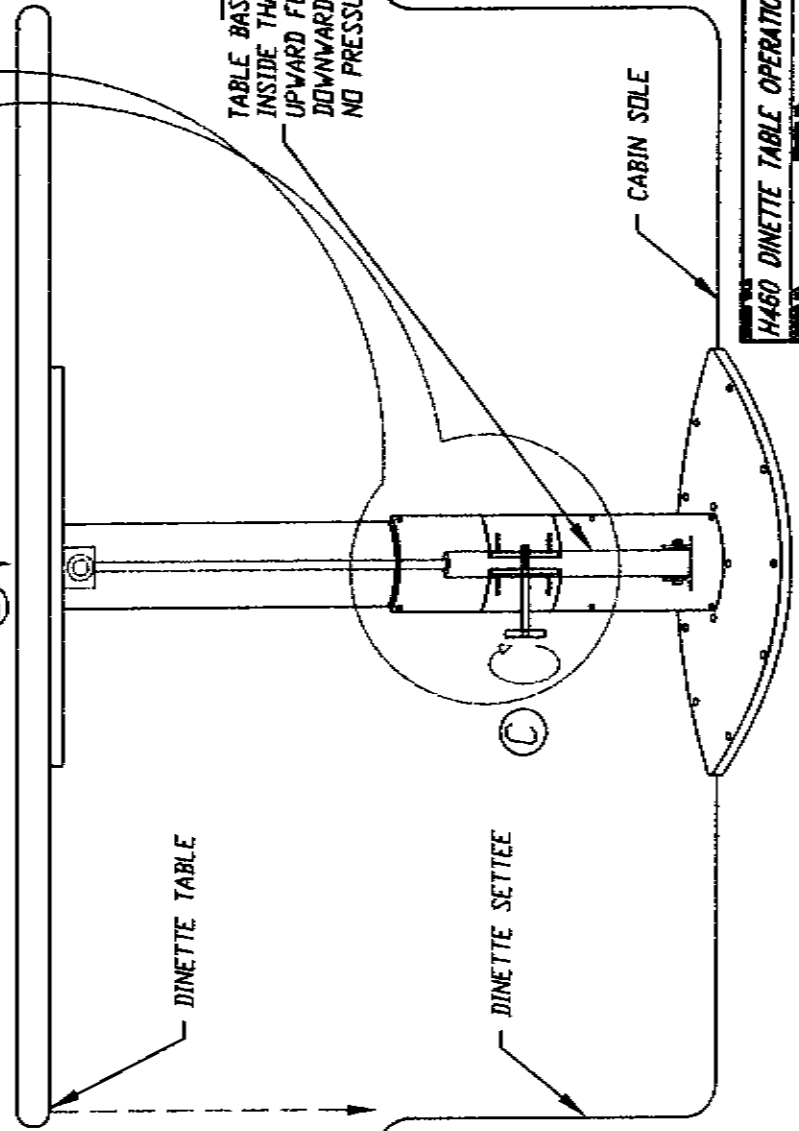
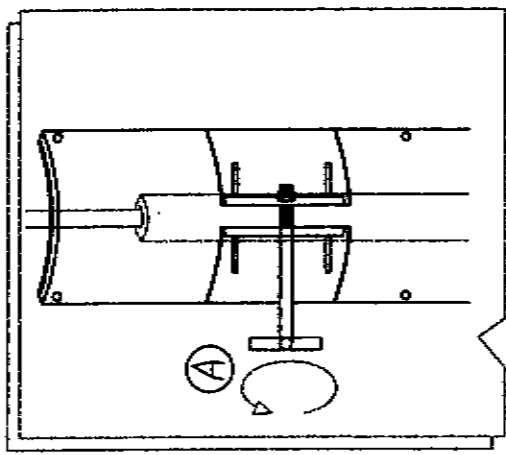
| | |
|-------------------------------------|------------|
| 460 TRI CABIN (OPT) INTERIOR LAYOUT | |
| 4608041C | DATE: NONE |
| ENGINEERING DEPT. | 11/12/98 |

HUNTERCRAFT

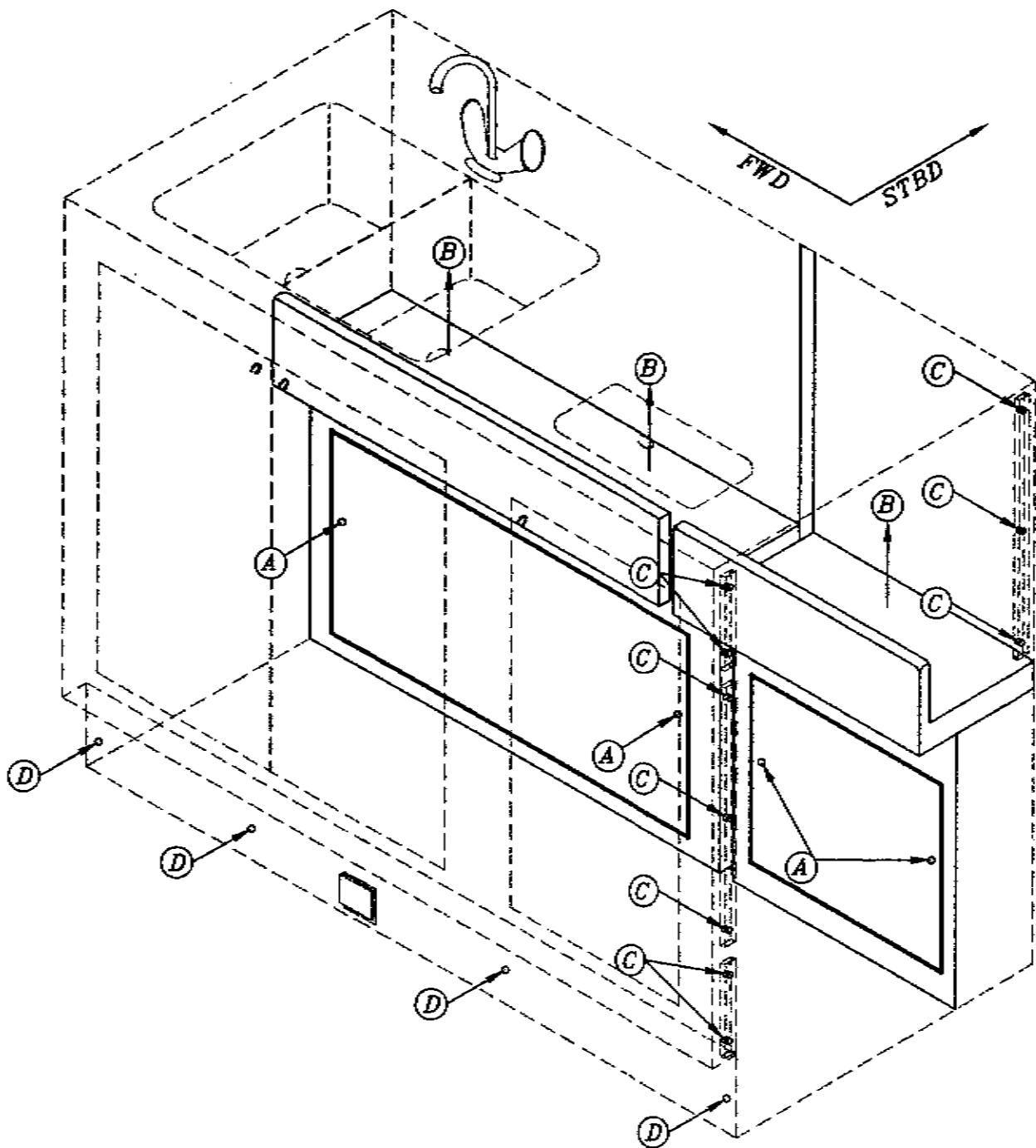
460 QUAD CABIN OPTION INTERIOR



- EXAMPLE: TO LOWER
- Ⓐ LOOSEN CLAMP WITH COUNTER CLOCKWISE MOTION
 - Ⓑ AT THE CENTER OF THE TABLE, APPLY DOWNWARD PRESSURE UNTIL THE TABLE REACHES THE DESIRED HEIGHT.
 - Ⓒ CONTINUE APPLYING PRESSURE WHILE RE-TIGHTENING THE CLAMP IN A CLOCKWISE MOTION
 - Ⓓ SEE NOTE BELOW BEFORE ADJUSTING.
- TO RAISE:
- A. LOOSEN CLAMP
 - B. TABLE RAISES AUTOMATICALLY.
 - C. RE-TIGHTEN THE CLAMP



Ⓓ NOTE:
 TABLE BASE FITTED WITH 'GAS SHOCK'
 INSIDE THAT CONSTANTLY APPLIES AN
 UPWARD FORCE. TO LOWER, APPLY
 DOWNWARD PRESSURE. TO RAISE,
 NO PRESSURE OR LIFTING IS NEEDED.

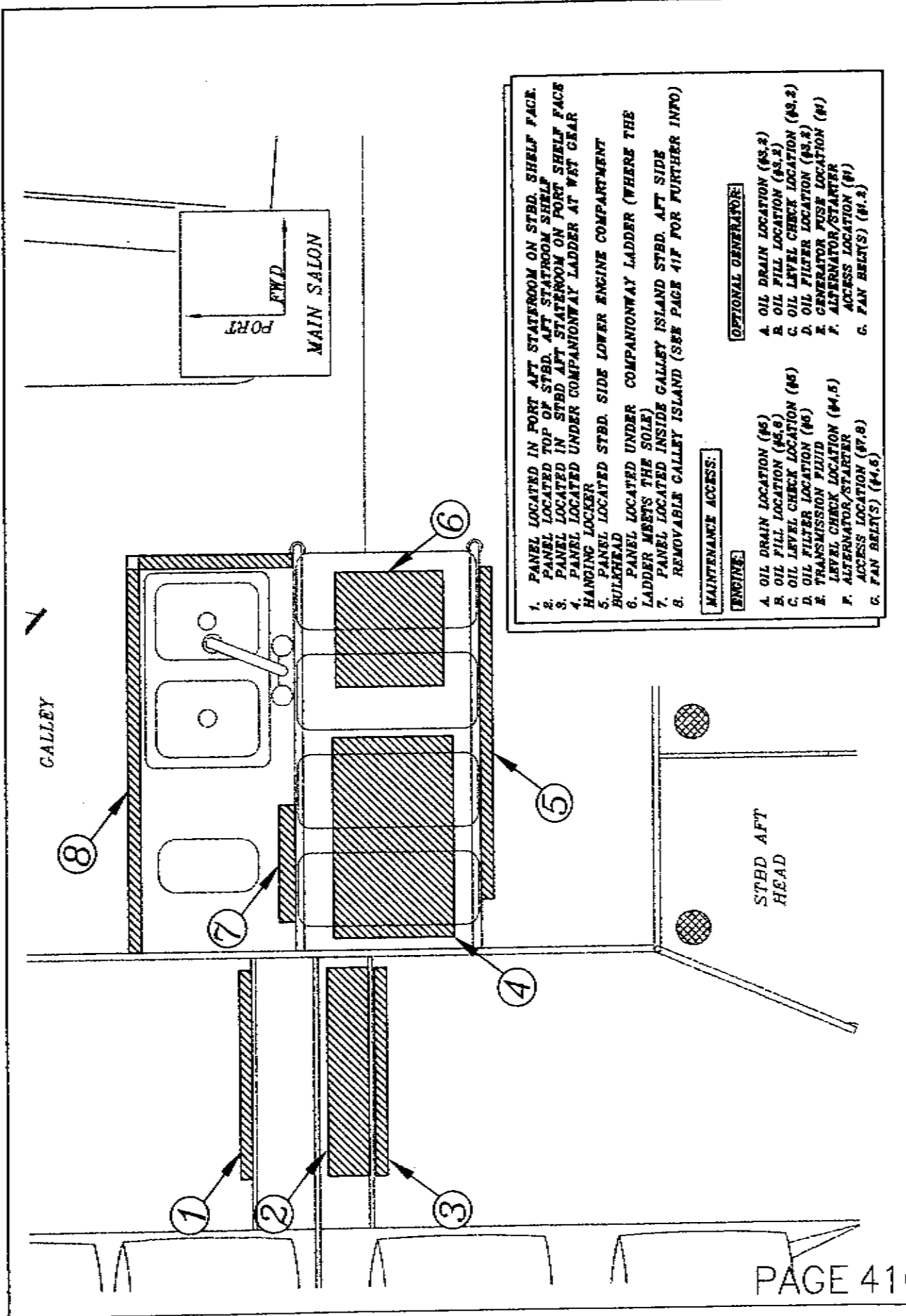


TO ACCESS ENGINE COMPARTMENT THRU GALLEY:

THIS IS POSSIBLE BY TWO WAYS.

1. REMOVE LOWER CABINET FACE ACCESS PANELS FASTENERS (A) . (AND /OR) LIFT UP AND REMOVE CABINET SHELVING (B). THIS WILL PROVIDE ACCESS TO THE ENGINE BEHIND THE GALLEY.
2. REMOVE THE BATTENS INSIDE THE CABINET (C) . THEY ARE LOCATED AT AFT OF THE UNIT. (ONE PIECE TO THE STBD, AND THREE PIECES TO THE PORT) ALSO REMOVE THE FASTENERS LOCATED ON THE INBOARD FACE OF THE GALLEY TOE KICK (D) . AT THIS POINT THE WHOLE GALLEY UNIT SHOULD NOW PIVOT TO THE PORT, ON THE TOE KICK, PROVIDING ACCESS TO THE ENGINE.

PAGE 41F



1. PANEL LOCATED IN PORT AFT STATEROOM ON STBD. SHELF FACE.
2. PANEL LOCATED TOP OF STBD. AFT STATEROOM SHELF
3. PANEL LOCATED IN STBD AFT STATEROOM ON PORT SHELF FACE
4. PANEL LOCATED UNDER COMPANIONWAY LADDER AT WET GEAR HANGING LOCKER
5. PANEL LOCATED STBD. SIDE LOWER ENGINE COMPARTMENT BULKHEAD
6. PANEL LOCATED UNDER COMPANIONWAY LADDER (WHERE THE LADDER MEETS THE SOLE)
7. PANEL LOCATED INSIDE GALLEY ISLAND STBD. AFT SIDE
8. REMOVABLE GALLEY ISLAND (SEE PAGE 41F FOR FURTHER INFO)

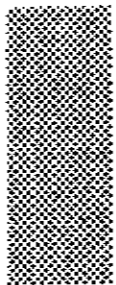
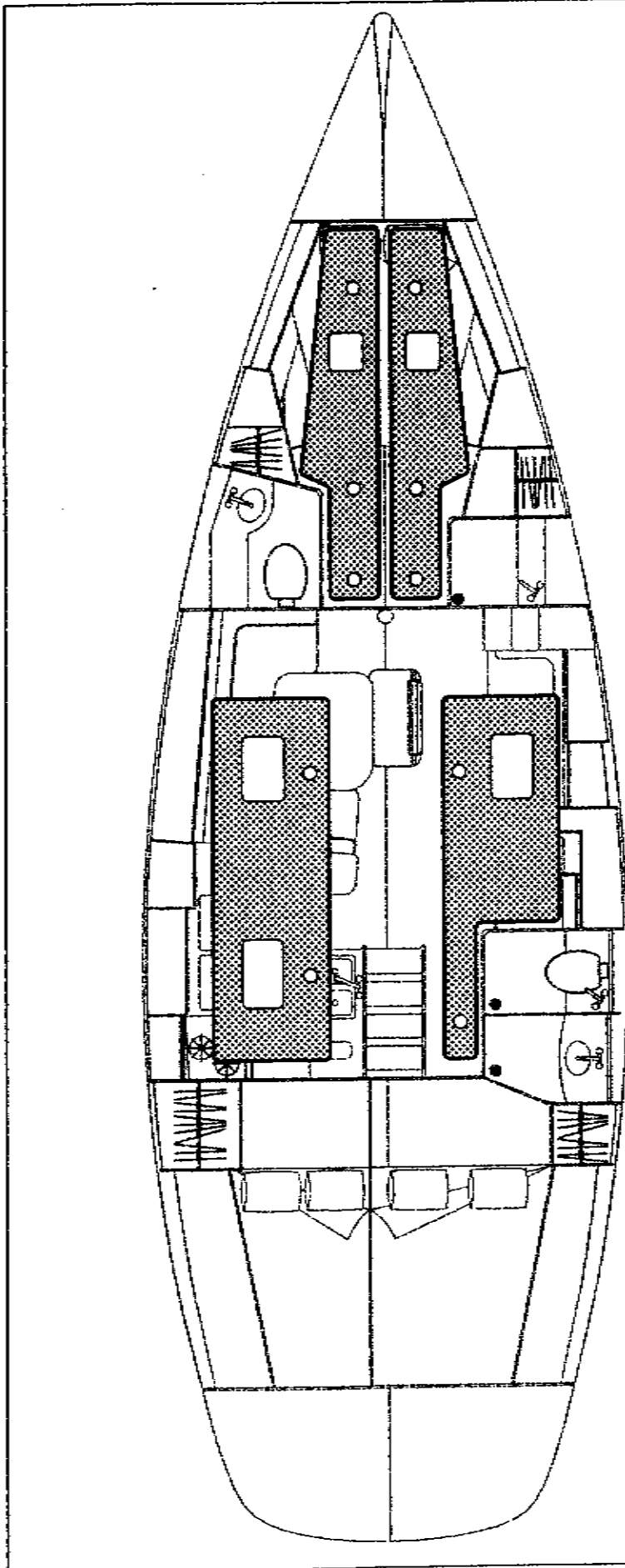
MAINTENANCE ACCESS:

ENGINE:

- A. OIL DRAIN LOCATION (#5)
- B. OIL FILL LOCATION (#5.8)
- C. OIL LEVEL CHECK LOCATION (#6)
- D. OIL FILTER LOCATION (#6)
- E. TRANSMISSION FLUID LEVEL CHECK LOCATION (#4.5)
- F. ALTERNATOR/STARTER ACCESS LOCATION (#7.8)
- G. FAN BELT(S) (#4.6)

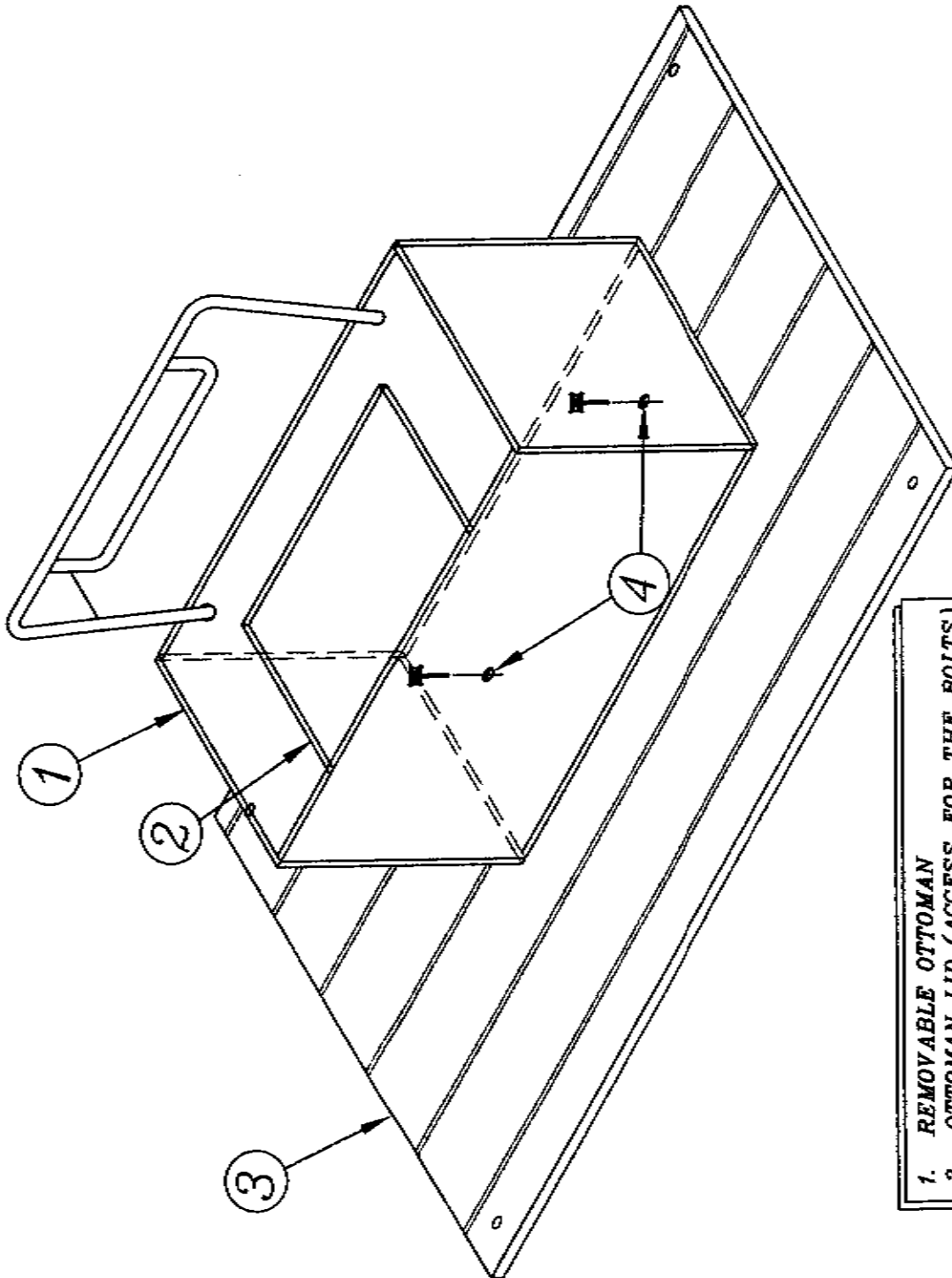
OPTIONAL GENERATOR:

- A. OIL DRAIN LOCATION (#8.2)
- B. OIL FILL LOCATION (#8.2)
- C. OIL LEVEL CHECK LOCATION (#8.2)
- D. OIL FILTER LOCATION (#8.2)
- E. GENERATOR FUSE LOCATION (#8)
- F. ALTERNATOR/STARTER ACCESS LOCATION (#8)
- G. FAN BELT(S) (#8.2)



LOCATION OF "SOFT" HEADLINER ACCESS PANELS.

SEE "WHISPER" INSERT IN OWNERS MANUAL FOR FURTHER INSTRUCTIONS

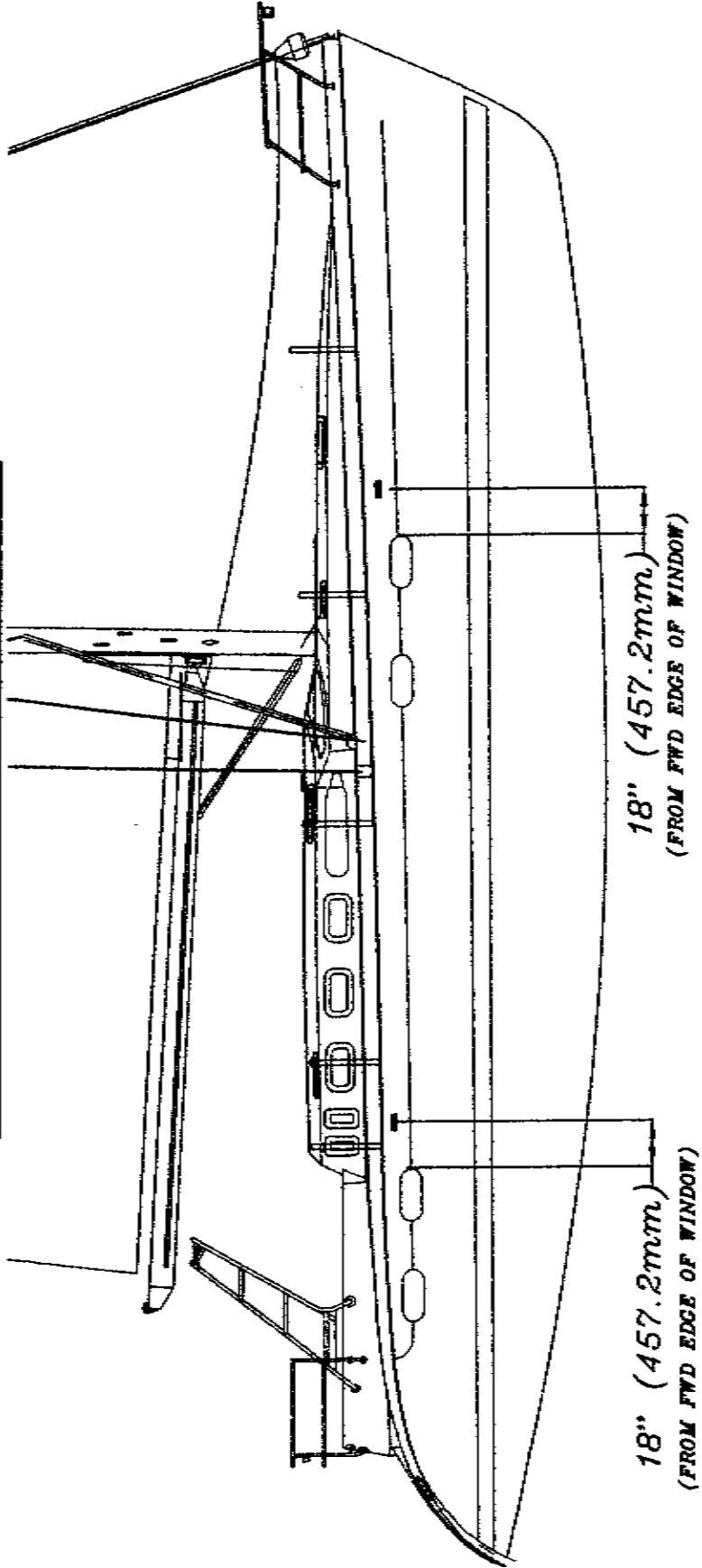


1. REMOVABLE OTTOMAN
2. OTTOMAN LID (ACCESS FOR THE BOLTS)
3. FLOOR BOARD SECTION
(SECURED IN THE FOUR CORNERS)
4. OTTOMAN SECURING BOLTS

NOTE: BE SURE THE OTTOMAN IS TIGHTLY SECURED AT ALL TIMES. THERE EXISTS A POSSIBILITY OF INJURY IF IT IS NOT.

IMPORTANT

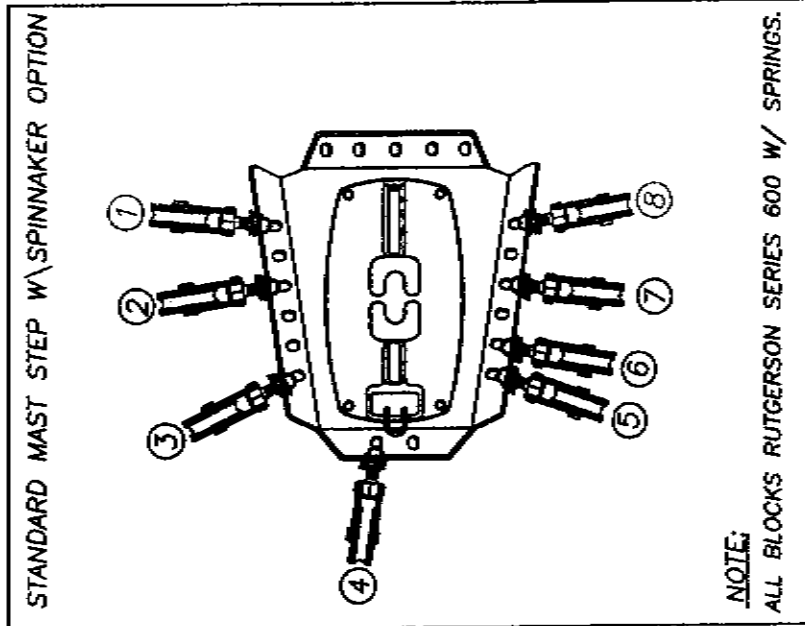
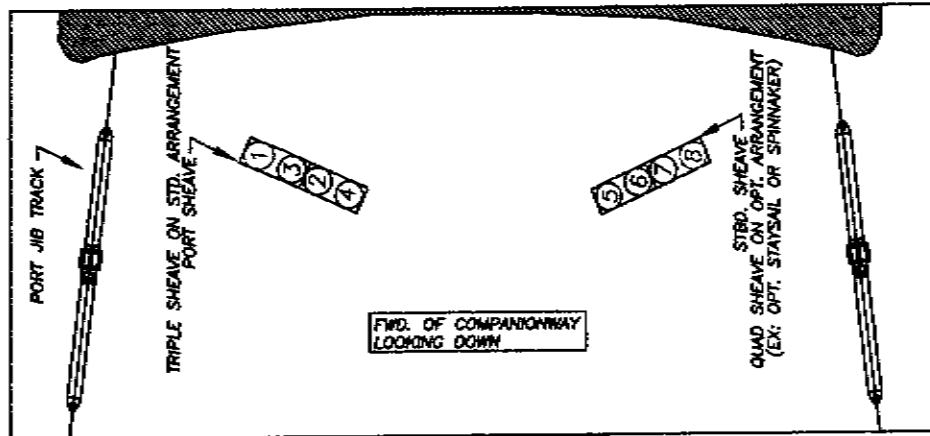
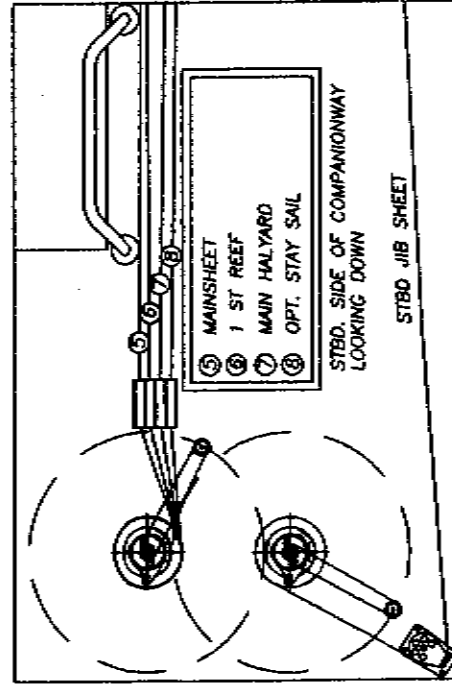
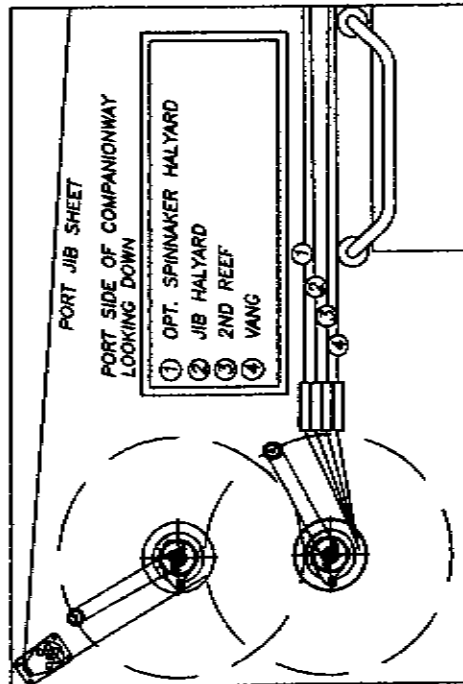
NOTE: BE AWARE OF THE STAINLESS STEEL RUB RAIL INSERT WHEN LIFTING THE BOAT. IT IS NECESSARY TO PROTECT THE RUB RAIL FROM THE LIFTING STRAPS TO AVOID DAMAGE.



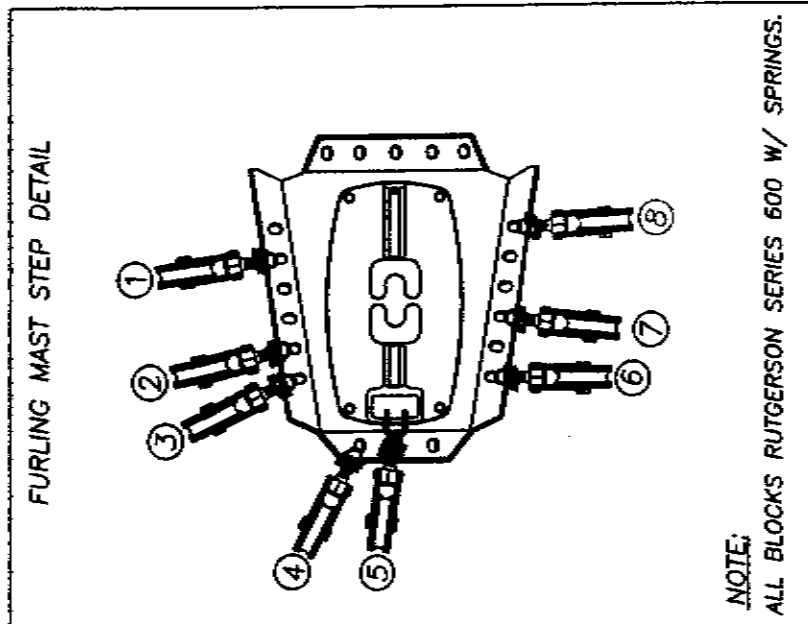
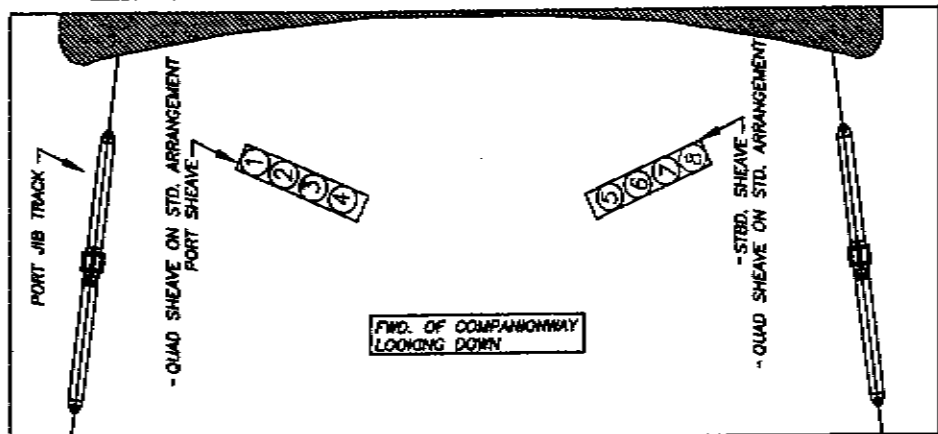
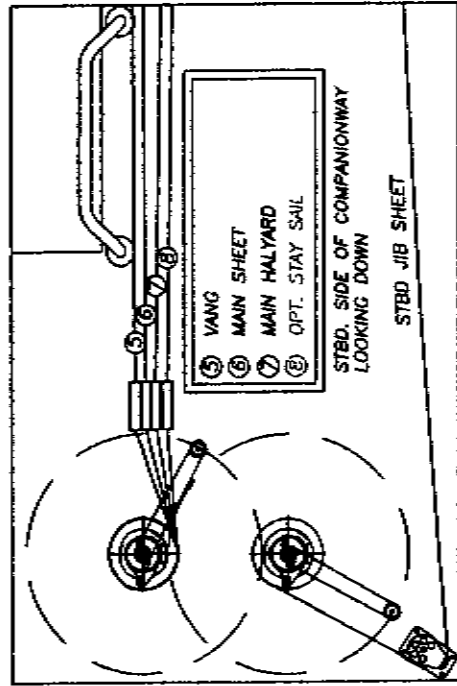
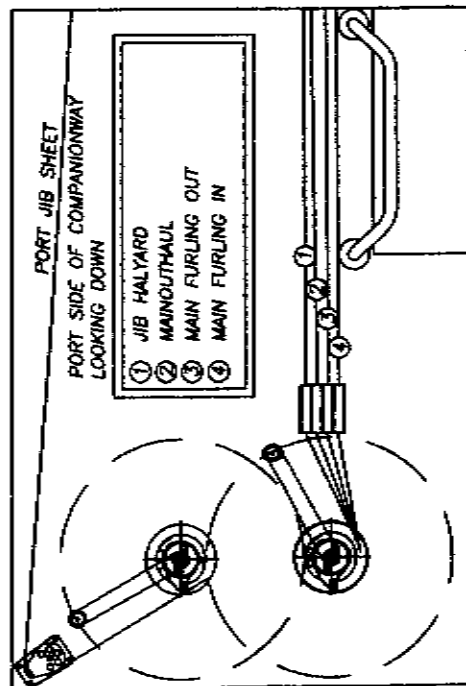
SLING LOCATIONS

| | |
|---|---------|
| HUNTER | |
| HULL SLING LOCATION/RUB RAIL PROTECTION DWG | |
| 4428041J | NONE |
| ENGINEERING DEPT. | 2/22/98 |

SELDEN STANDARD MAST STEP

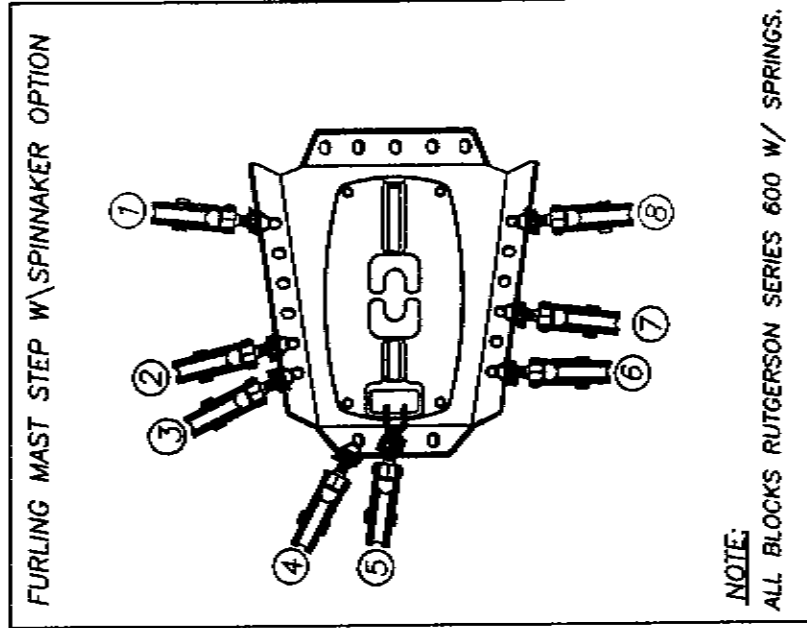
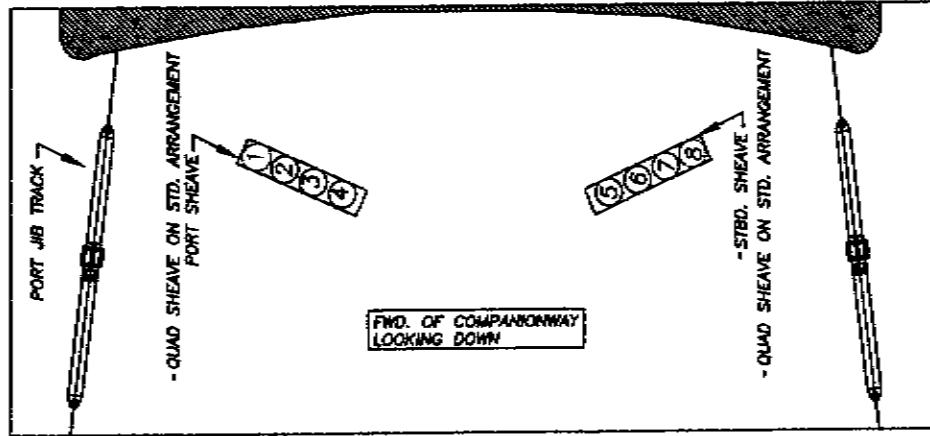
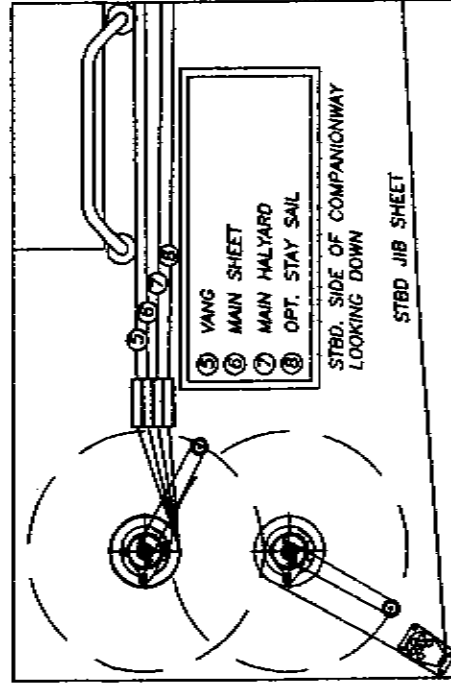
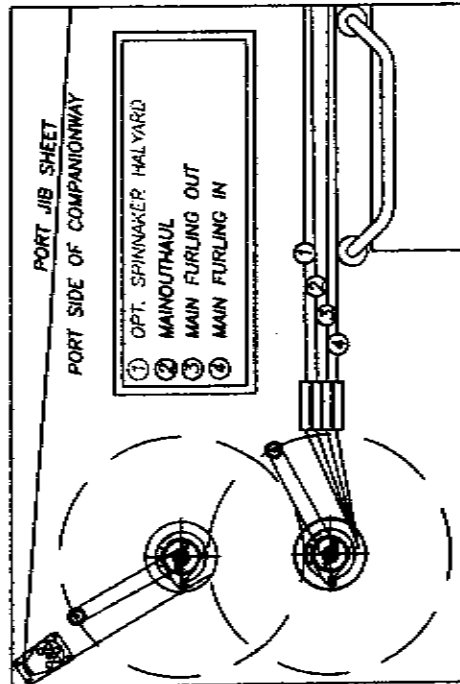


**SELDEN FURLIN' MAST STEP LAYOUT
WITHOUT SPINNER OPTION**



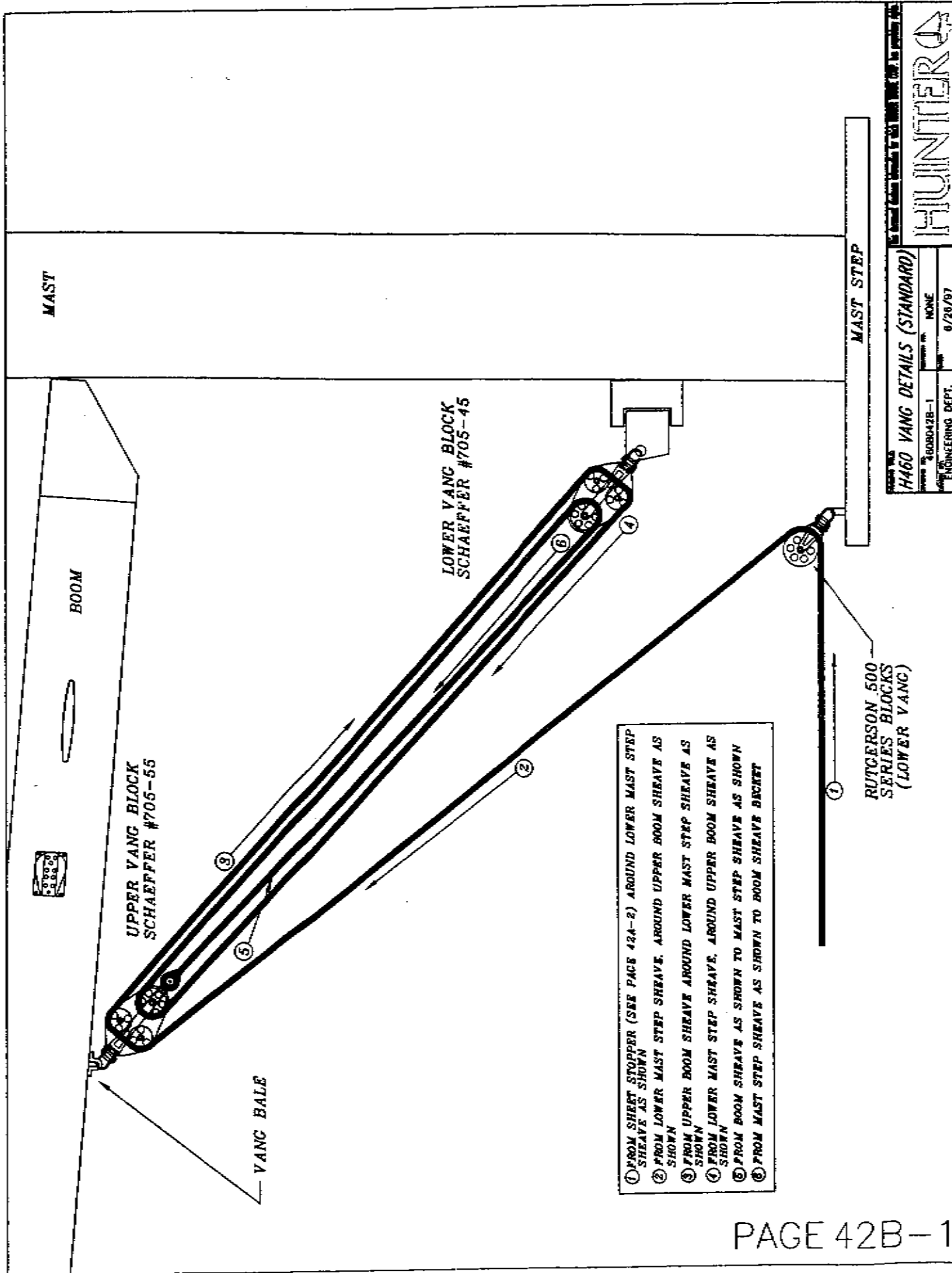
NOTE:
ALL BLOCKS RUTGERSON SERIES 600 W/ SPRINGS.

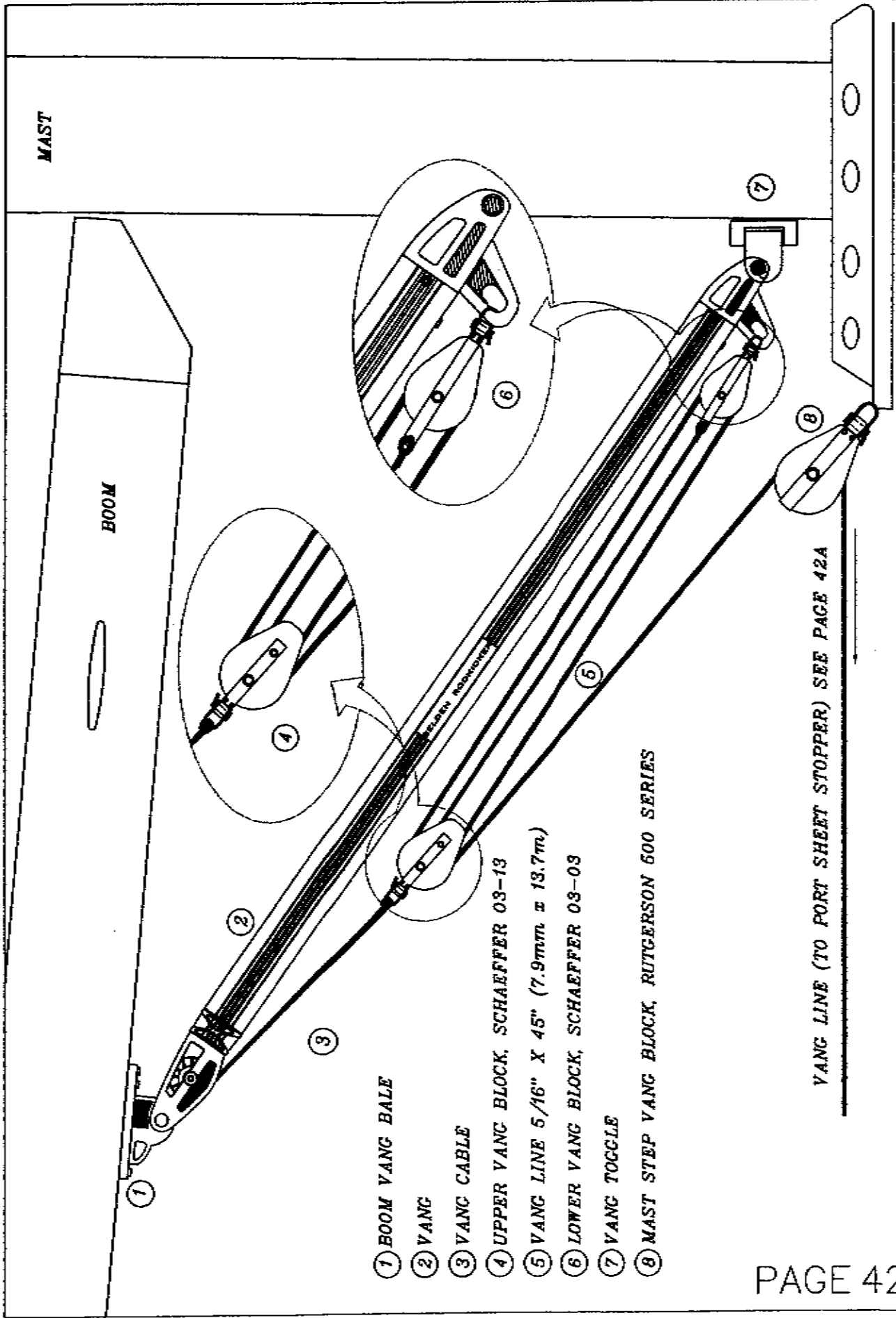
SELDEN FURLIN' MAST STEP LAYOUT WITH SPINNAKER OPTION



NOTE: ON FURLING MASTS, WHEN AN OPTIONAL SPINNAKER IS PRESENT, THE JIB HALYARD IS "LOCKED OFF", AND THE TAIL END OF THE HALYARD IS STOWED IN THE HOLE ON THE LOWER PORT SIDE OF THE MAST. IF A SPINNAKER IS DESIRED, THE PORT SIDE DEFLECTOR SHEAVE SHOULD BE CHANGED OUT AND REPLACED BY TWO TRIPLE, STACKED SHEAVES, INSTEAD OF A SINGLE QUAD.

① ② ③
④ ⑤ ⑥ ⑦ ⑧





MAST

BOOM

- ① BOOM VANG BALE
- ② VANG CABLE
- ③ VANG
- ④ UPPER VANG BLOCK, SCHAEFFER 03-13
- ⑤ VANG LINE 5/16" X 45" (7.9mm x 13.7m)
- ⑥ LOWER VANG BLOCK, SCHAEFFER 03-03
- ⑦ VANG TOGGLE
- ⑧ MAST STEP VANG BLOCK, RUTGERSON 600 SERIES

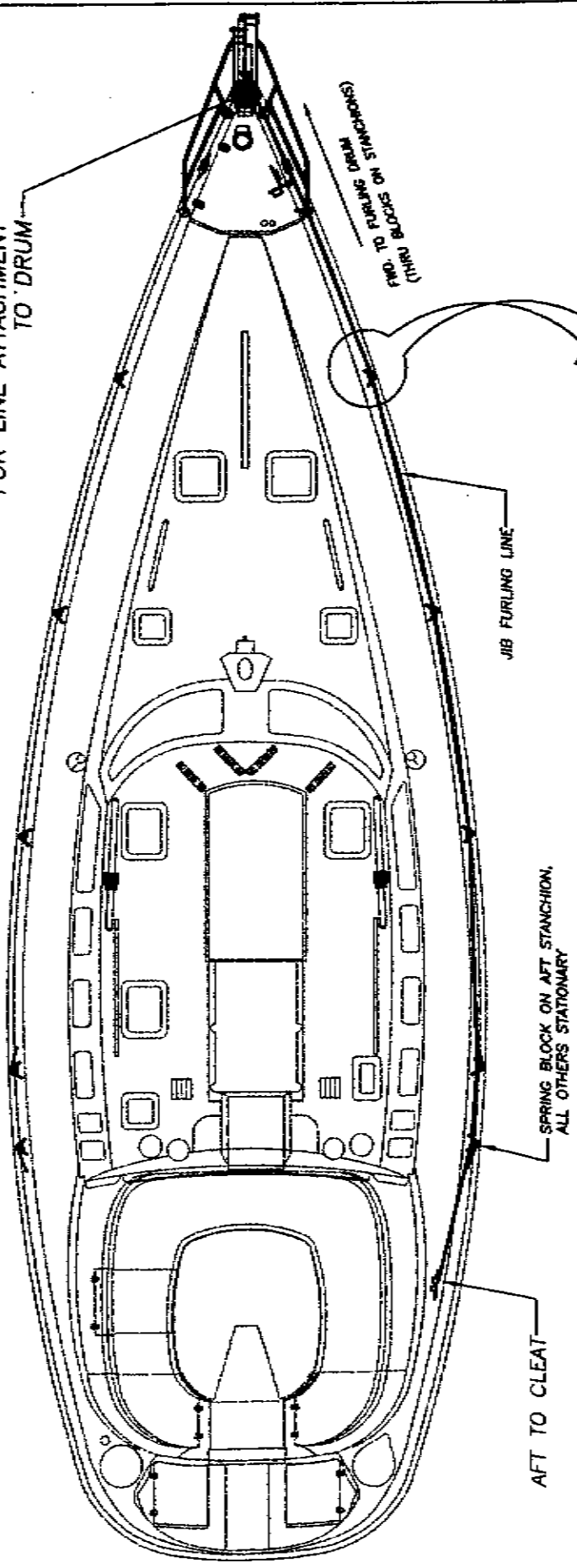
VANG LINE (TO PORT SHEET STOPPER) SEE PAGE 42A

HUNTER
 HUNTER & COMPANY
 11120 W. 11TH AVE. SUITE 100
 DENVER, CO 80233
 TEL: 303-751-1000
 FAX: 303-751-1001
 WWW: WWW.HUNTER.COM

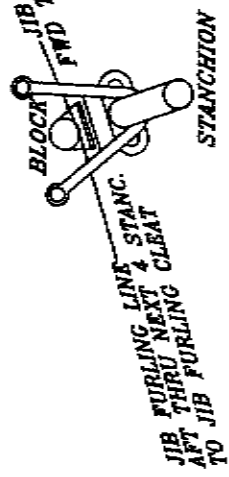
JIB FURLING SYSTEM

SEE FURLING MANUAL
FOR LINE ATTACHMENT
TO DRUM

FWD. TO FURLING DRUM
(THRU BLOCKS)



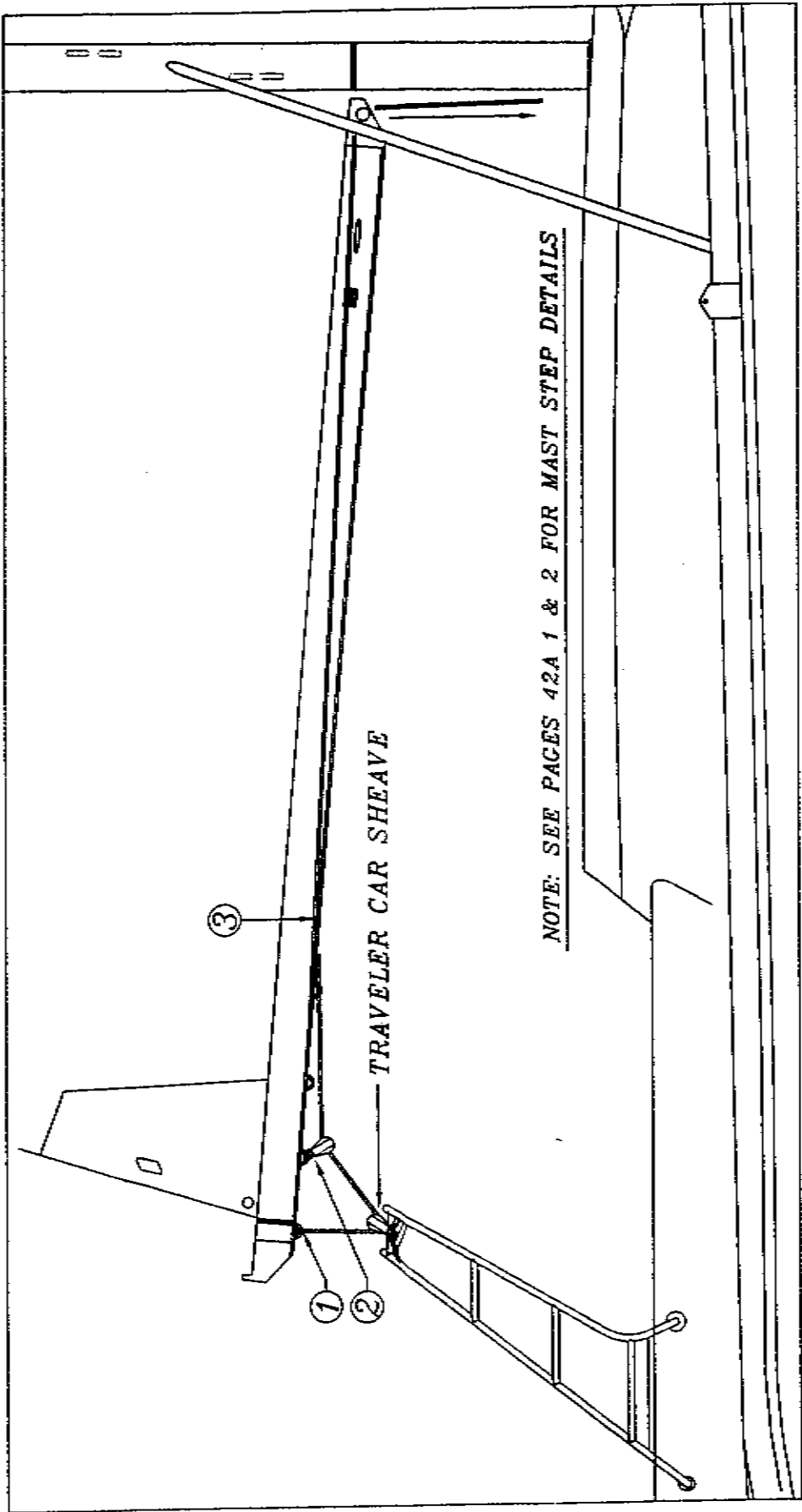
FURLING BLOCK/ STANCHION DETAIL



MAINSHEET PURCHASE

- ① BALE, MAINSHEET END
- ② BALE, MAINSHEET BLOCK
- ③ EXIT, MAINSHEET

NOTE:
SEE PAGE 43C FOR TRAVELER DETAILS



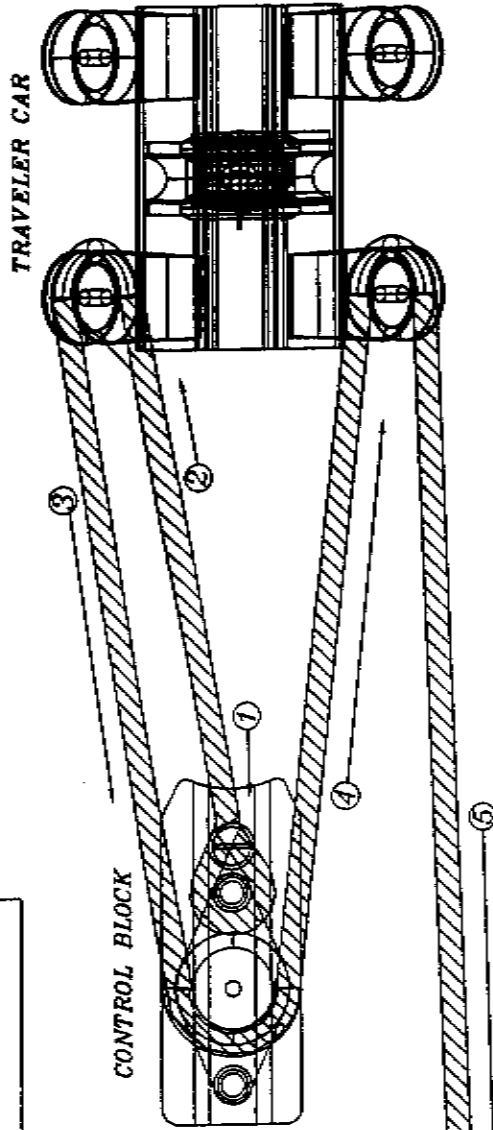
NOTE: SEE PAGES 42A 1 & 2 FOR MAST STEP DETAILS

H460 MAINSHEET PURCHASE (STD)

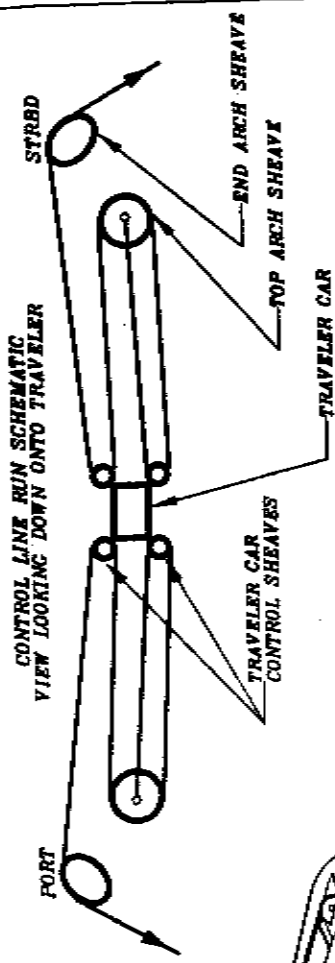
| | | | |
|-------------------|----------|------|---------|
| PROJECT NO. | 4508043A | REV. | NONE |
| ENGINEERING DEPT. | | DATE | 5/28/98 |

HUNTER

NOTE: ARCH & TRAVELER BAR NOT SHOWN FOR CLARITY.
 STARBOARD SIDE SHOWN, PORT SIDE IS MIRROR IMAGE
 SEE PREVIOUS PAGE FOR MORE DETAILS

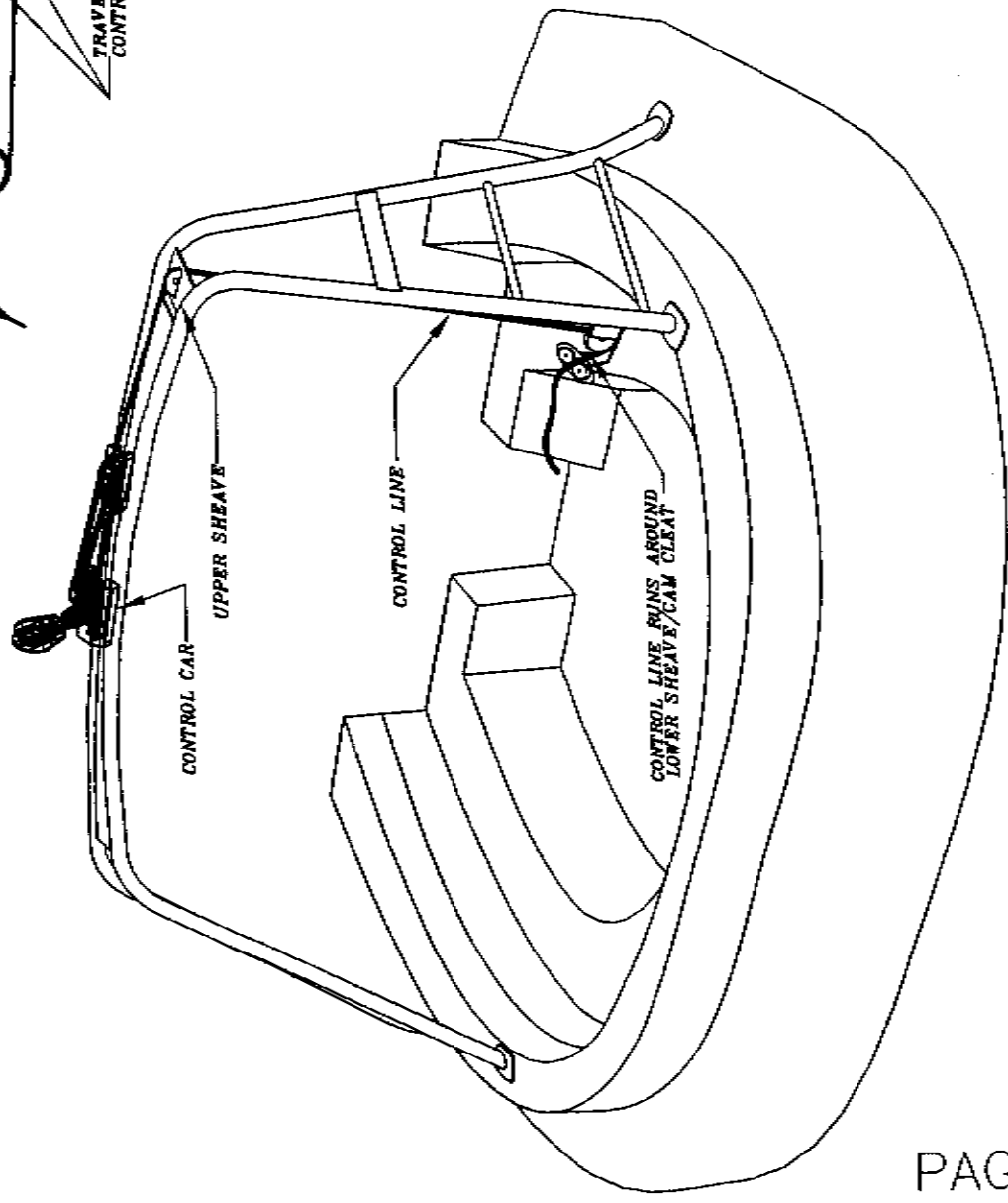


- ① SECURE END OF CONTROL LINE TO BECKET ON CONTROL BLOCK
- ② LEAD LINE AROUND FWD. SIDE OF AFT TRAVELER CAR SHEAVE AS SHOWN
- ③ LEAD LINE FROM AFT SIDE OF AFT TRAVELER CAR SHEAVE TO AFT SIDE OF CONTROL BLOCK SHEAVE
- ④ LEAD LINE FROM FWD. SIDE OF CONTROL BLOCK SHEAVE TO AFT SIDE OF FWD. TRAVELER CAR SHEAVE
- ⑤ LEAD LINE FROM FWD. SIDE OF FWD. TRAVELER CAR SHEAVE TO STAND UP SHEAVE
- ⑥ LEAD LINE AROUND STAND UP SHEAVE THEN DOWN THRU ARCH AND AROUND LOWER SHEAVE TO CAM CLEAT



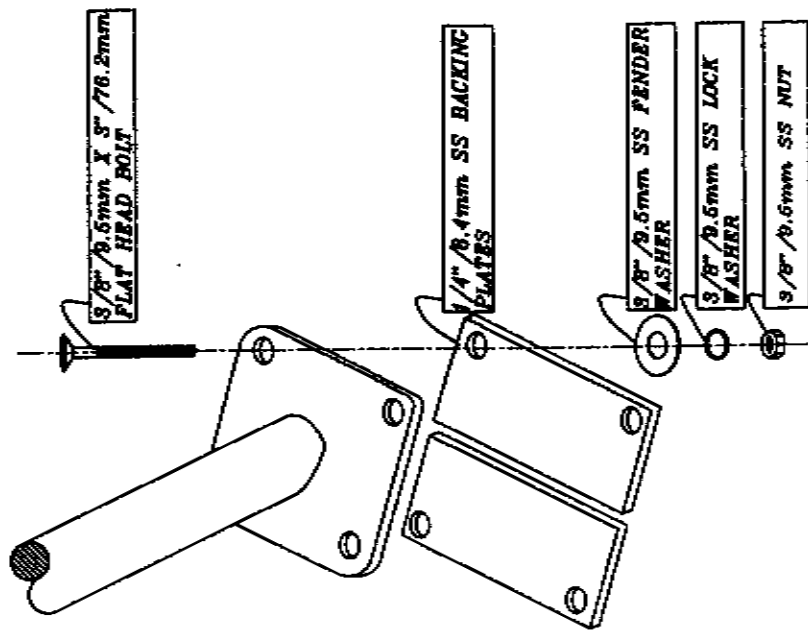
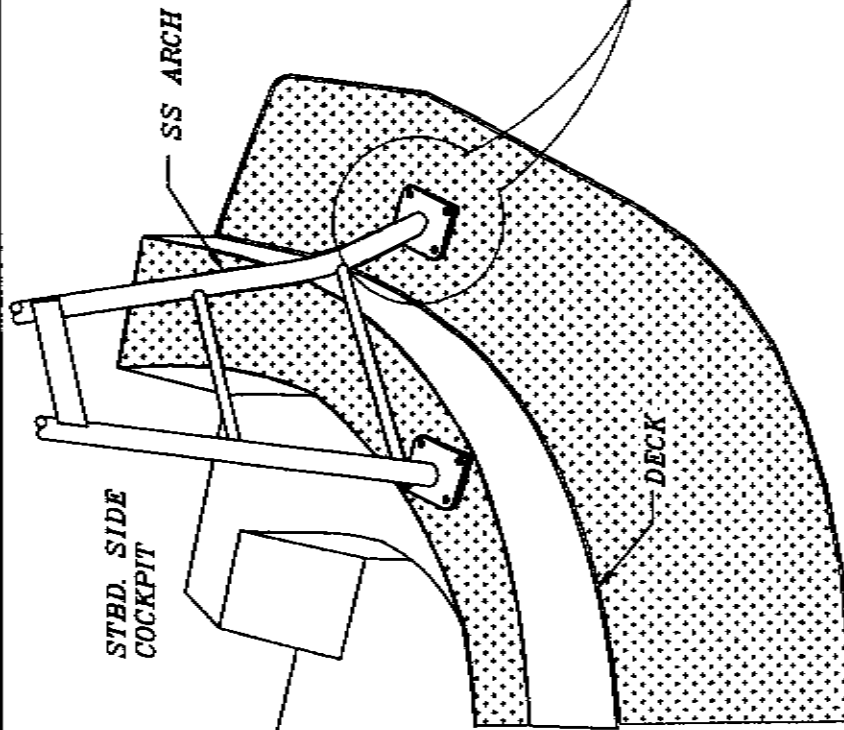
SEE PC 48B FOR DETAILS

SEE PAGE 45A FOR MAIN SHEET LINE RUNS



NOTE: PORT SIDE SHOWN, STBD SIDE IS A MIRROR IMAGE.

| | |
|---------------------------------|--------|
| HUNTER | |
| H460 TRAV. CONTROL LINE DETAILS | |
| NO. 4608043C | NONE |
| ENGINEERING DEPT. | 3/3/88 |



1. REMOVE ALL ACCESSORIES STOWED IN THE AFT COCKPIT LOCKERS.
2. ACCESS ARCH FOOT LOCATIONS:
 STBD FWD: THRU ACCESS PANEL IN AFT STRM. HEADLINER
 STBD AFT: THRU STBD SIDE LAZZARETTE
 PORT FWD: THRU ACCESS HOLE IN PORT SIDE AFT SWIM LOCKER
 PORT AFT: THRU PORT SIDE LAZZARETTE
 (IT MAY BE NECESSARY TO CLIMB INTO THE LOCKER FOR EASIER ACCESS.)
3. CLEAN AREAS AROUND THE ARCH MOUNTING HOLES AND APPLY DOW 795 SEALANT GENEROUSLY AROUND HOLES.
4. ALIGN THE ARCH FEET PRE-DRILLED HOLES AND THE COAMING PRE-DRILLED MOUNTING HOLES.
5. INSTALL THE (3/8" / 9.5mm) FLAT HEAD BOLTS THRU THE ARCH FEET AND DOWN INTO THE DECK
6. INSTALL THE (1/4" / 6.4mm) ARCH FEET BACKING PLATES ON THE UNDERSIDE OF THE DECK AND ALIGN WITH THE ARCH MOUNTING HOLES. SEE ACCESS LOCATIONS ABOVE. THE F.H. BOLTS NOW SHOULD PASS THRU THE ARCH FEET, THE DECK LAMINATE, AND THE ARCH BACKING PLATES.
7. LOOSELY INSTALL THE FENDER WASHERS, LOCK WASHERS AND NUTS FROM THE UNDERSIDE OF THE DECK. APPLY A SMALL AMOUNT OF NEVER SEIZE TO THE BOLTS TO PREVENT GAULING OF THE THREADS
8. CHECK FOR EVEN SPACING OF THE ARCH ONTO THE COAMING AND ADJUST ACCORDINGLY
9. SECURELY TIGHTEN ALL ARCH MOUNTING NUTS USING A "CROSS TIGHTENING" PATTERN. THIS WILL ALLOW BOTH SIDES OF THE ARCH TO TIGHTEN EVENLY AGAINST THE COAMING.
10. CLEAN OFF EXCESS SEALANT AROUND ARCH AND COAMING AREAS USING ALCOHOL.
11. APPLY A "FINAL" HEAD OF SEALANT AROUND EACH ARCH FOOT

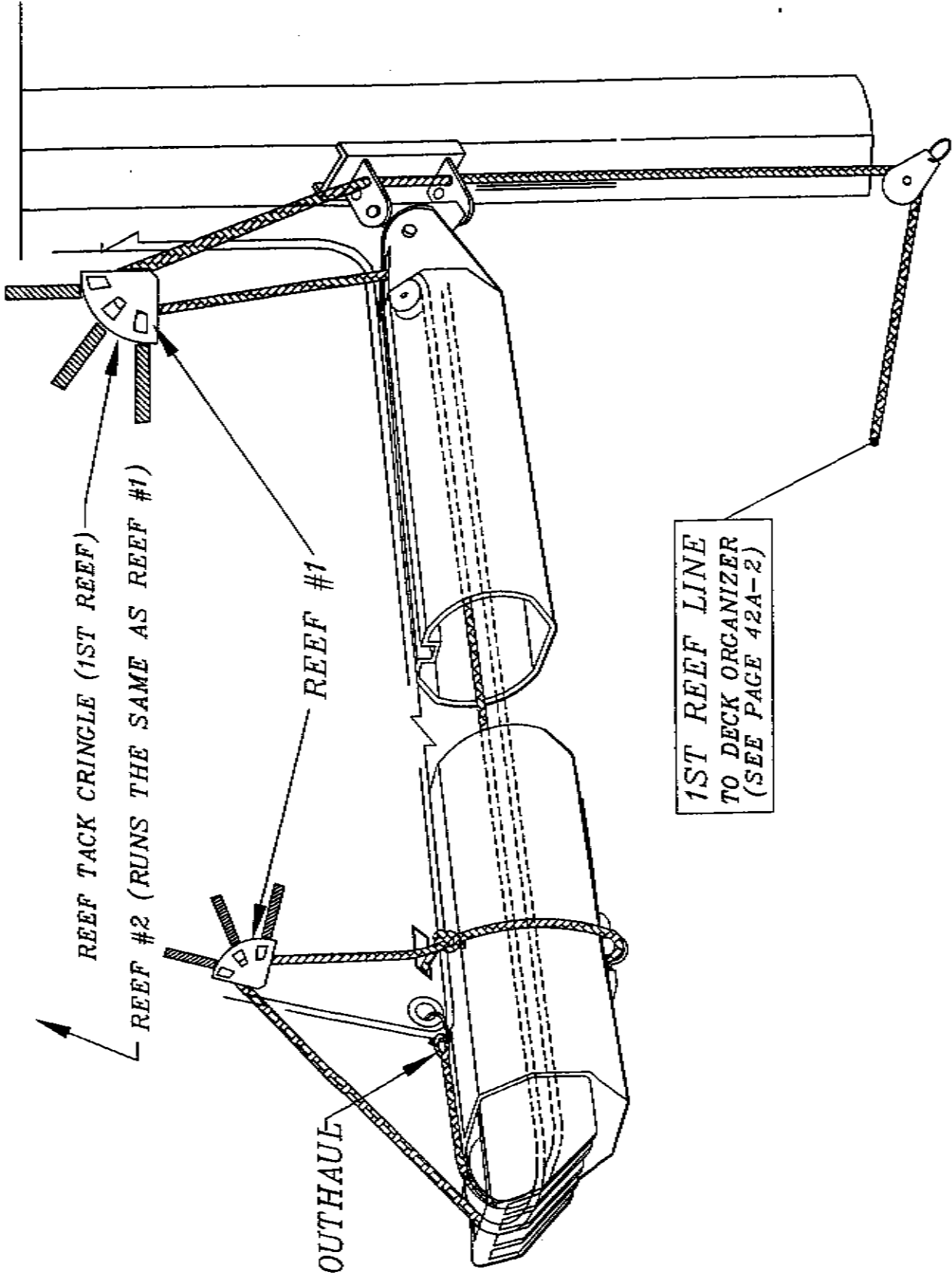
SUGGESTED TOOL LIST:
 3/8" DRIVE RATCHET
 6" EXTENSION
 9/16" DEEP & REGULAR SOCKET
 9/16" WRENCH
 SCREW DRIVER--PHILLIPS HEAD
 CAULK GUN
 TUBE OF SEALANT (DOW 795)
 NEVER SEIZE (BOLT LUBE)
 RAZOR KNIFE
 RAGS
 ALCOHOL / CLEAN UP

THIS JOB REQUIRES THREE PEOPLE! ONCE ARCH HAS BEEN SET IN PLACE, CONTINUE HOLDING ARCH UPRIGHT UNTIL IT HAS BEEN SECURED COMPLETELY.

IMPORTANT: REMEMBER TO CHECK ALL NUTS AND BOLTS AFTER INITIAL SEA TRIAL AND RETIGHTEN AS NECESSARY.

4460 ARCH INSTALLATION INSTRUCTIONS
 4500043D
 NONE
 3/3/99
 ENGINEERING DEPT.





REEF TACK CRINGLE (1ST REEF)

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

REEF #1

OUTHHAUL

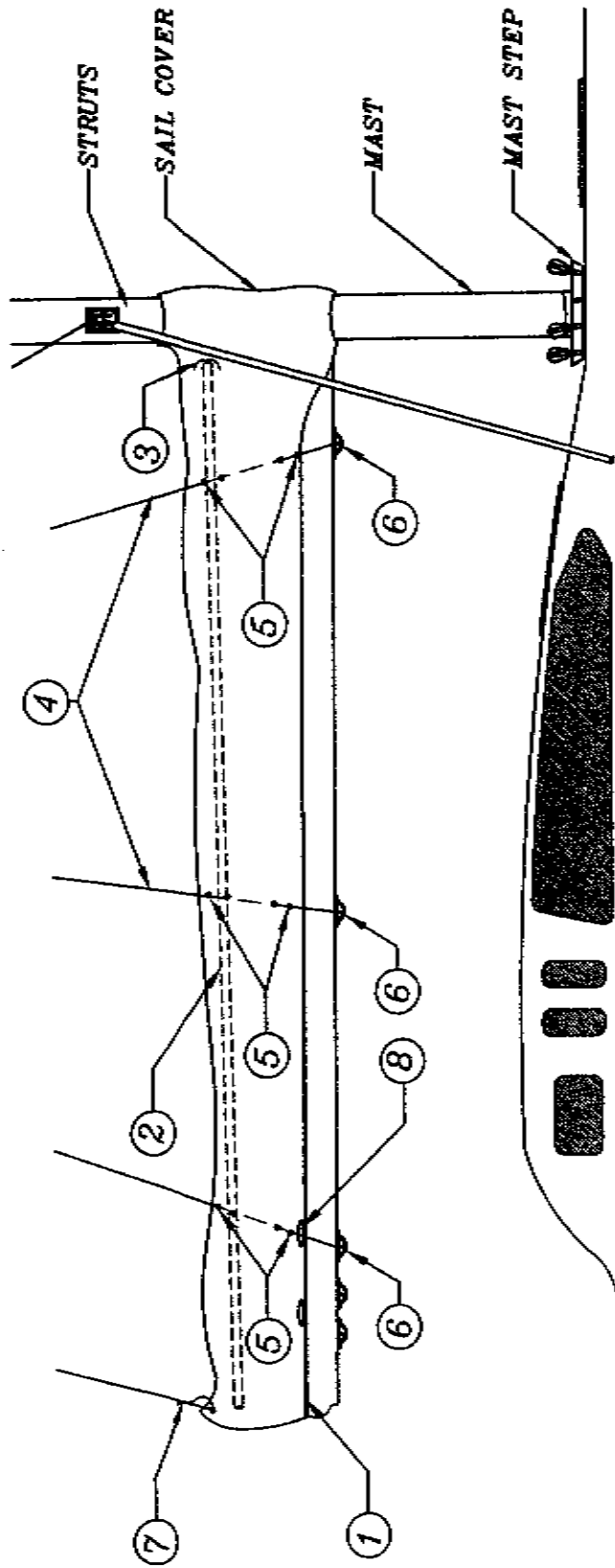
1ST REEF LINE
TO DECK ORGANIZER
(SEE PAGE 42A-2)

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

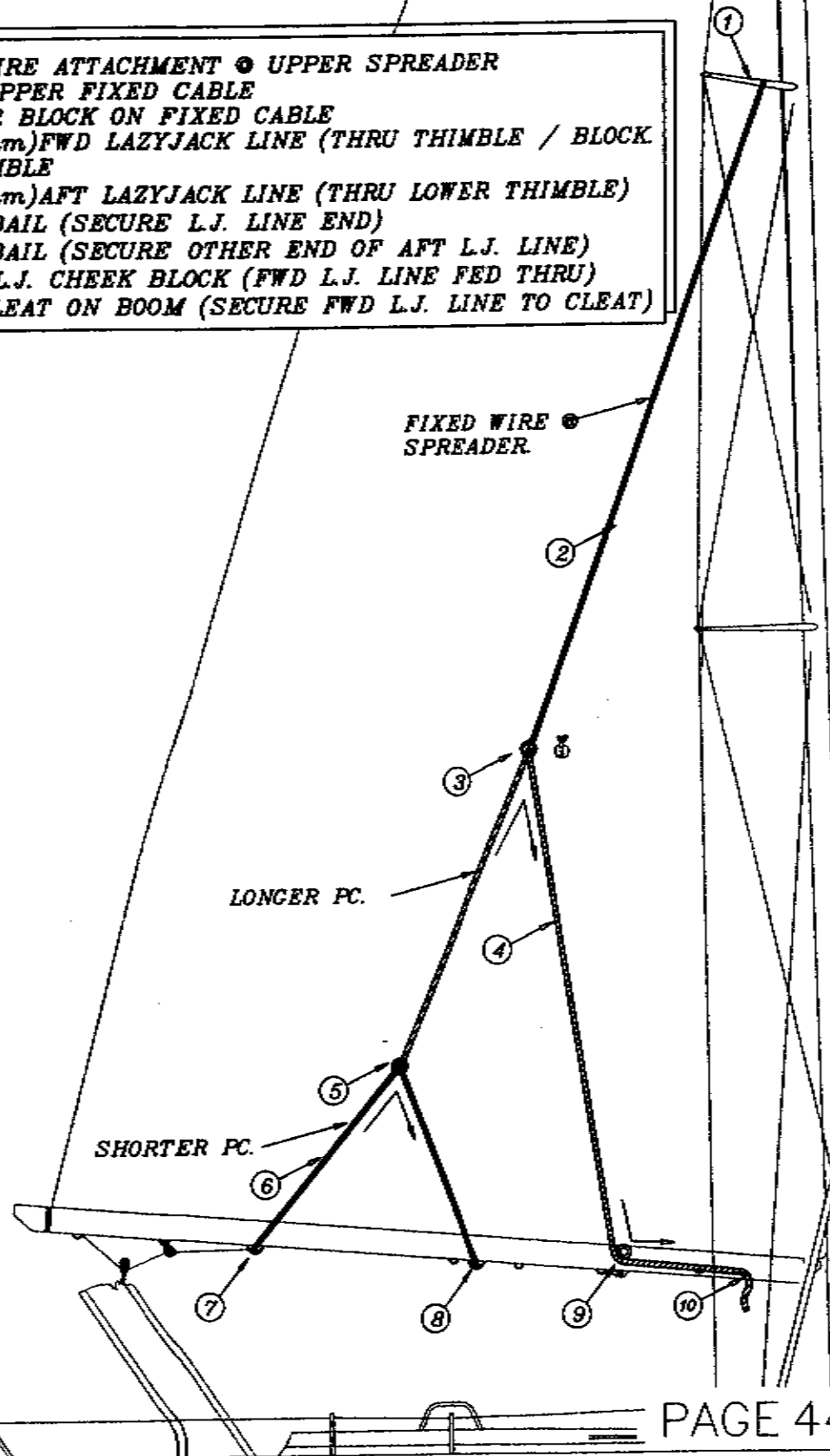
H460 HUNTER LAZYJACK SAIL COVER
4605044B
ENGINEERING DEPT

DATE: NONE
3/11/98

HUNTER

h460

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)



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.
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)

SHAKING OUT A REEF

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

H460 SELDEN RUNNING RIGGING SPECIFICATIONS

BOAT: H460

BY: KJC

DATE: 7/24/98

REVISION:

DATE:

CHECKED BY:

| 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 | 39.0 m | BARE |
| 2 STD | JIB HALYARD | 1 | 7/16" (11MM) | XLS EXTRA | RED | EYE | 40.1 m | BARE |
| 3 STD | MAIN TRAVELER LINE | 2 | 5/16" (8MM) | LS | WHITE | SMALL EYE | 7.0 m | BARE |
| 4 STD | MAINSHEET | 1 | 7/16" (11MM) | XLS | BLUE FLECK | SMALL EYE | 22.8 m | BARE |
| 5 STD | BOOM TOPPING LIFT | 1 | 3/8" (9.5MM) | LS | WHITE | BARE | 33.0 m | BARE |
| 6 STD | REEFING LINE #1 | 1 | 7/16" (11MM) | LS | GREEN FLECK | BARE | 24.8 m | BARE |
| 7 STD | REEFING LINE #2 | 1 | 7/16" (11MM) | LS | RED FLECK | BARE | 35.2 m | BARE |
| 8 STD | JIB SHEET | 2 | 1/2" (12.5MM) | LS | RED FLECK | BARE | 15.2 m | BARE |
| 9 OPT | CRUISING SPINN. SHEET | 2 | 7/16" (11MM) | LS | BLACK FLECK | BARE | 30.5 m | BARE |
| 10 OPT | SPINNAKER HALYARD | 1 | 7/16" (11MM) | XLS | BLACK | SNAP SHACKLE NF11000s | 40.1 m | BARE |
| 11 OPT | STAYSAIL HALYARD | 1 | 7/16" (11MM) | XLS | GREEN | SNAP SHACKLE NF11000s | 32.7 m | BARE |
| 12 OPT | STAYSAIL SHEETS | 2 | 7/16" (11MM) | LS | GREEN FLECK | BARE | 12.2 m | BARE |
| 13 STD | LAZY JACK WIRE | 2 | 5/32" (4MM) | PLASTIC COATED 1x19 WIRE | WHITE | EYE & THIMBLE, SMALL SHACKLE | 4.9 m | EYE & THIMBLE, HARKEN 125 OR SCHAEFER 300-02 |
| 14 STD | FIXED LAZY JACK LINE | 2 | 3/8" (9.5MM) | LS | WHITE | BARE | 7.1 m | BARE |
| 15 STD | ADJUSTABLE LAZY JACK LINE | 2 | 3/8" (9.5MM) | LS | WHITE | SS THIMBLE SPLICED | 12.2 m | BARE |

FURLING MAST RUNNING RIGGING SPECIFICATIONS

BOAT: H460 FILE NAME: H460 SELDEN RUNNING REVISION: REMOVED MAIN HALYARD 8/28/98

BY: KJC DATE: 2/6/98

CHECKED BY: DATE:

| OPT/STD | ITEM | QUANTITY | LINE SIZE | LINE TYPE | COLOR | END 1 | LENGTH | END 2 |
|---------|-----------------------|----------|---------------|-----------|-------------|-----------------------|--------|-------|
| 1 STD | JIB HALYARD | 1 | 7/16" (11MM) | XLS EXTRA | RED | EYE | 40.1 m | BARE |
| 2 STD | MAIN TRAVELER LINE | 2 | 5/16" (8MM) | LS | WHITE | SMALL EYE | 7.9 m | BARE |
| 3 STD | MAINSHEET | 1 | 7/16" (11MM) | XLS | BLUE FLECK | SMALL EYE | 22.8 m | BARE |
| 4 STD | BOOM TOPPING LIFT | 1 | 3/8" (9.5MM) | LS | WHITE | BARE | 33.0 m | BARE |
| 5 STD | JIB SHEET | 2 | 1/2" (12.5MM) | LS | RED FLECK | BARE | 15.2 m | BARE |
| 6 STD | MAIN FURLING LINE | 1 | 3/8" (9.5MM) | LS | BLUE | BARE | 12.3 m | BARE |
| 7 OPT | CRUISING SPINN. SHEET | 2 | 7/16" (11MM) | LS | BLACK FLECK | BARE | 30.5 m | BARE |
| 8 OPT | SPINNAKER HALYARD | 1 | 7/16" (11MM) | XLS | BLACK | SNAP SHACKLE NF11000% | 40.1 m | BARE |
| 9 OPT | STAYSAIL, HALYARD | 1 | 7/16" (11MM) | XLS | GREEN | SNAP SHACKLE NF11000% | 32.7 m | BARE |
| 10 OPT | STAYSAIL SHEETS | 2 | 7/16" (11MM) | LS | GREEN FLECK | BARE | 12.2 m | BARE |

HUNTER

H460 RUNNING RIGGING SPECS. (FURL.)

Project No. 48080489 DATE 11/12/98

ENGINEERING DEPT.

H460 B&R RIG WITH STRUTS DESCRIPTION

The B&R rig, utilized on the Hunter H460, 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 H460 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 lower section of the mast as it creates a triangle with

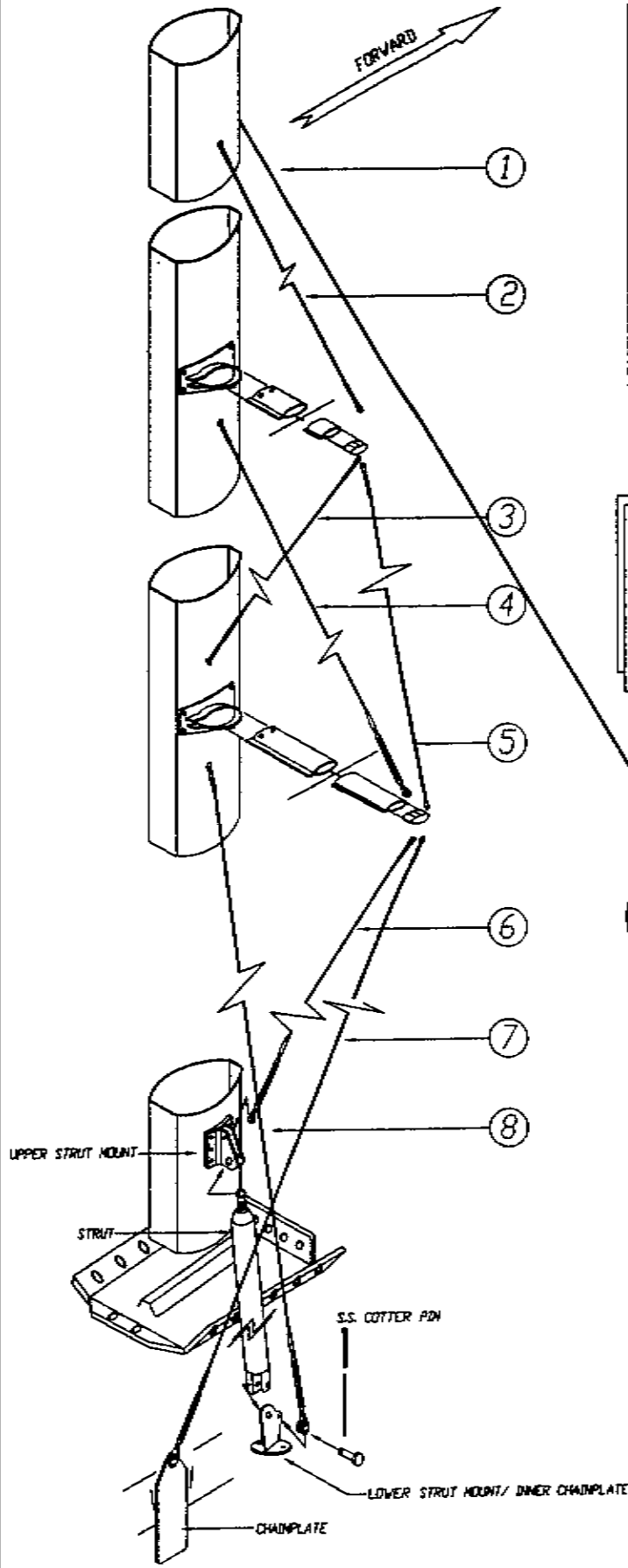
the lower shroud. The top RD2 runs from above the lower spreader base to the end of the top spreader, and stabilizes the top section of the mast.

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 H460 also eliminates the need for large overlapping headsails (genoa's), 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.

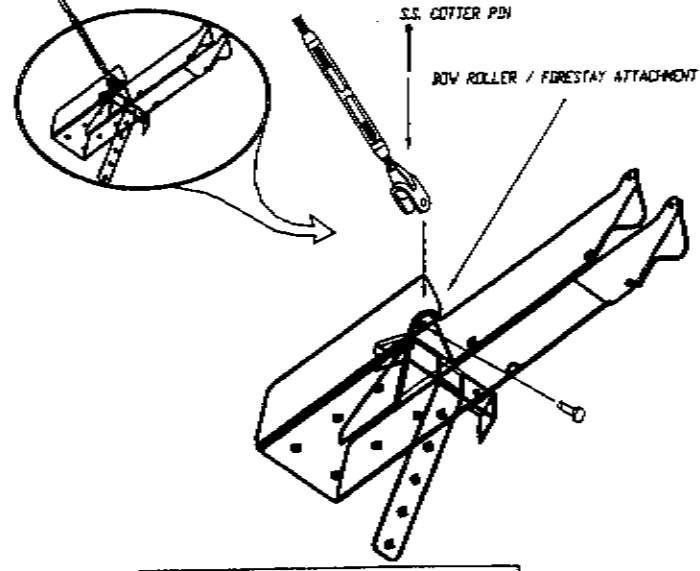
As the large main is creating additional mainsheet and leech loading, Hunter has included a cockpit arch whereby the mainsheet and leech loads are directed to the strong part of the boom (the outboard end) and is located at the heaviest loading point of the mainsail. The cockpit arch serves addition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

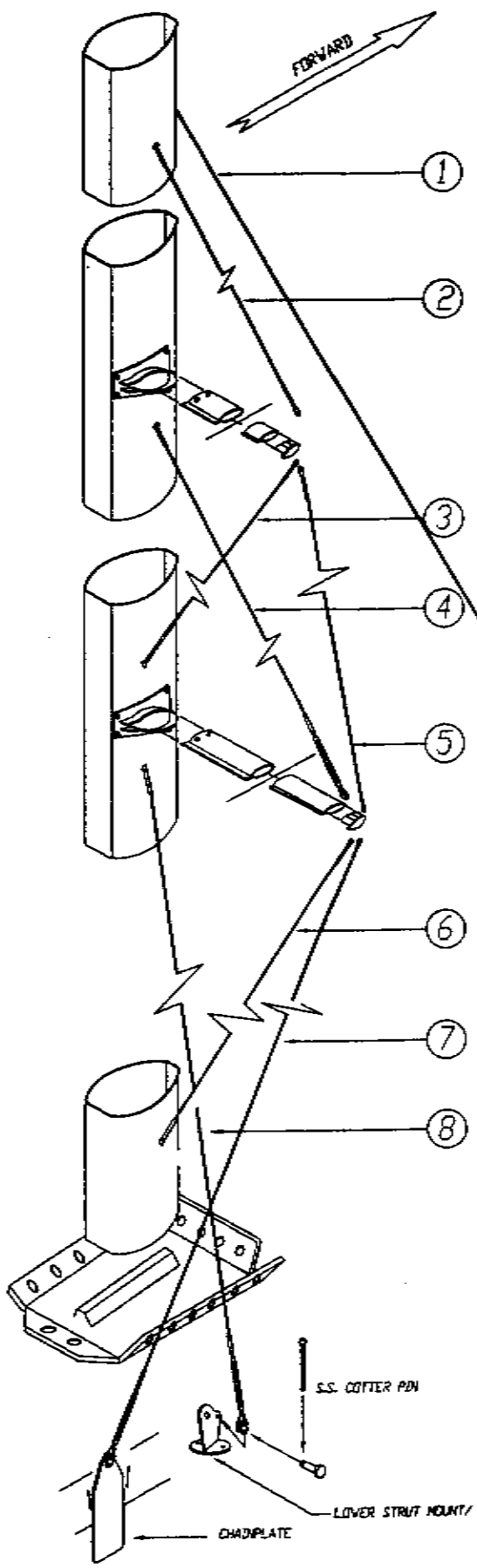


- ① FORESTAY 3/8" (9.5mm) 1 X 19
- ② D3 3/8" (9.5mm) 1 X 19
- ③ RD2 1/4" (6.4mm) 1 X 19
- ④ D2 5/16" (7.9mm) 1 X 19
- ⑤ V2 3/8" (9.5mm) 1 X 19
- ⑥ RD1 1/4" (6.4mm) 1 X 19
- ⑦ V1 3/8" (9.5mm) DYFORM
- ⑧ D1 3/8" (9.5mm) DYFORM

NOTE: SEE PAGES 49A & B FOR SPREADER TIP DETAILS.
 SEE PAGE 50A FOR STANDARD RIG STANDING RIG LENGTHS.
 SEE PAGE 51 FOR FITTINGS DESC.

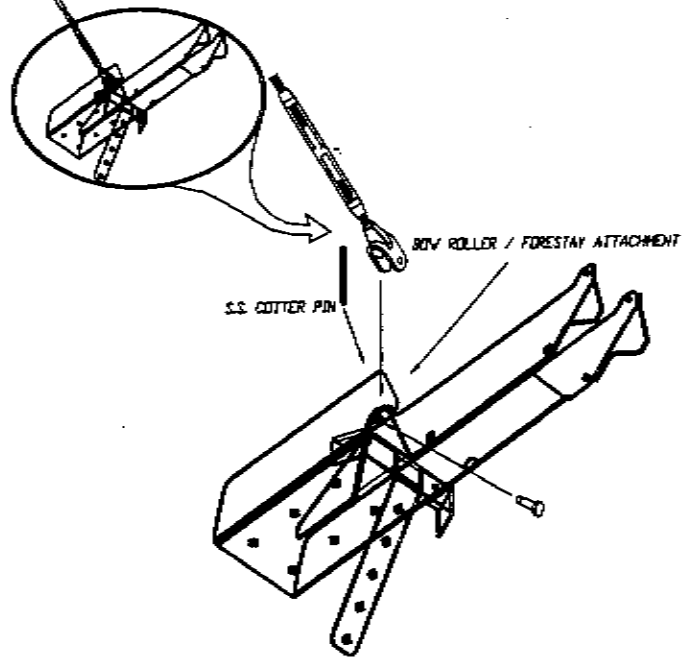


NOTE: NEVER TRY TO SAIL THE VESSEL WITHOUT THE STRUTS IN PLACE AND PROPERLY FASTENED (SEE PAGE 48B)
 NOTE: IN-MAST FURLING OPTION USES A LARGER MAST SECTION AND THE STRUTS ARE NOT UTILIZED. SEE FOLLOWING PAGE.



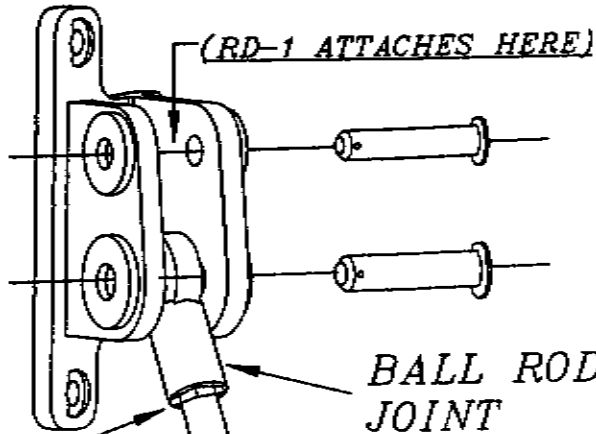
- ① FORESTAY 3/8" (9.5mm) 1 X 19
- ② D3 3/8" (9.5mm) 1 X 19
- ③ RD2 1/4" (6.4mm) 1 X 19
- ④ D2 5/16" (7.9mm) 1 X 19
- ⑤ V2 3/8" (9.5mm) 1 X 19
- ⑥ RD1 1/4" (6.4mm) 1 X 19
- ⑦ V1 3/8" (9.5mm) DYFORM
- ⑧ D1 3/8" (9.5mm) DYFORM

NOTE: SEE PAGES 49A & B FOR SPREADER TIP DETAILS.
SEE PAGE 50B FOR FURLING RIG LENGTHS.
SEE PAGE 51 FOR FITTINGS DESC.



NOTE: IN-MAST FURLING OPTION USES A LARGER MAST SECTION AND THE STRUTS ARE NOT UTILIZED.

(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

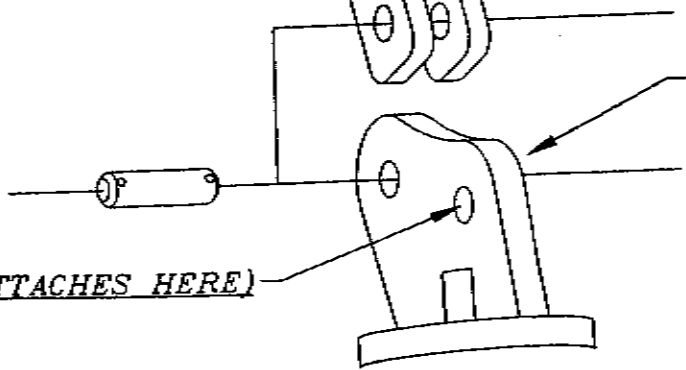
JAM NUTS

STRUT

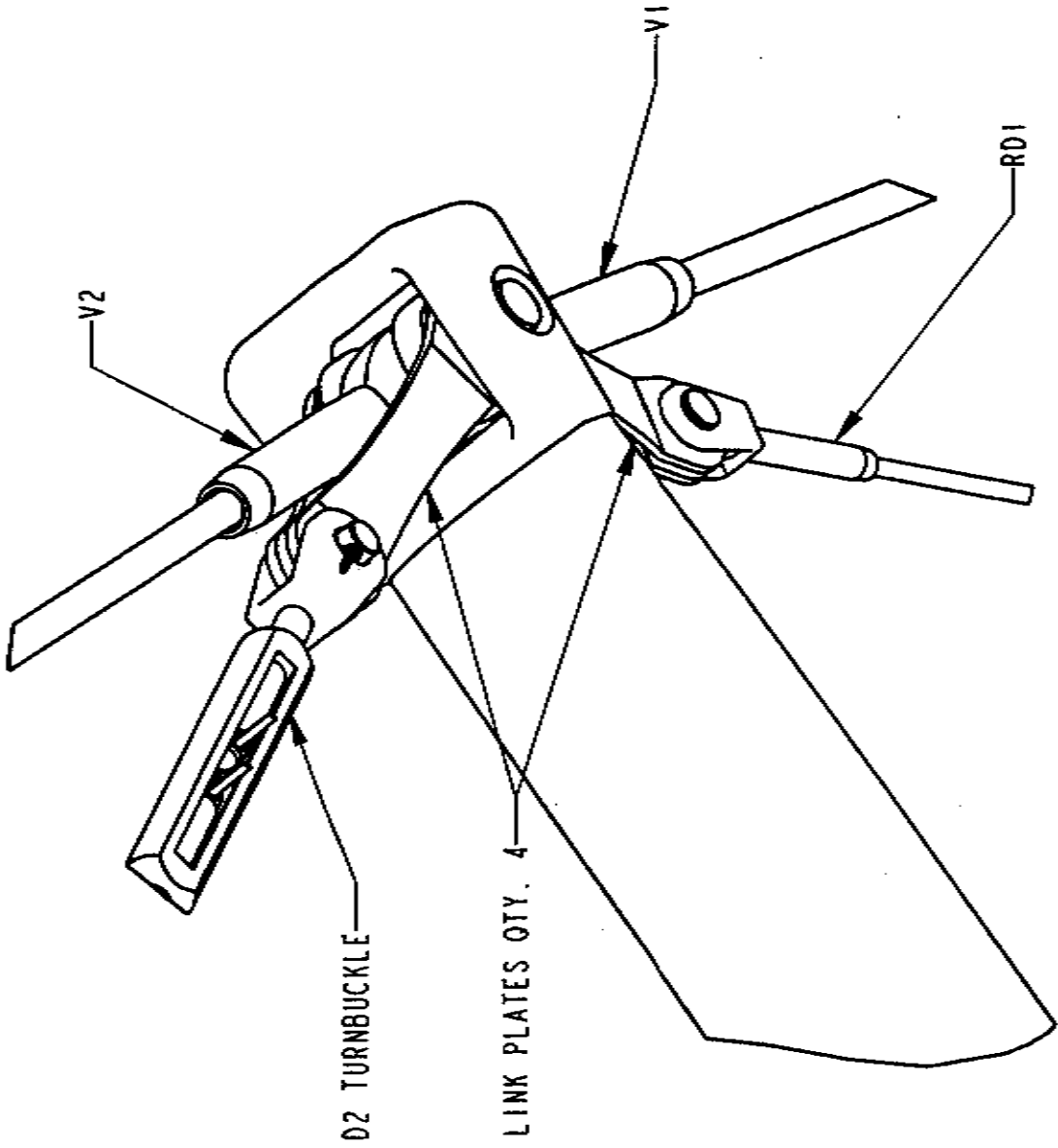
STEP ONE
PIN LOWER END OF STRUT TO
CHAINPLATE AND ADD SPLIT
RINGS

LOWERS
CHAINPLATE

(D-1 ATTACHES HERE)



HUNTERC
H460 STRUT ASSEMBLY
14600-48B NONE 2/13/88
ENGINEERING DEPT.

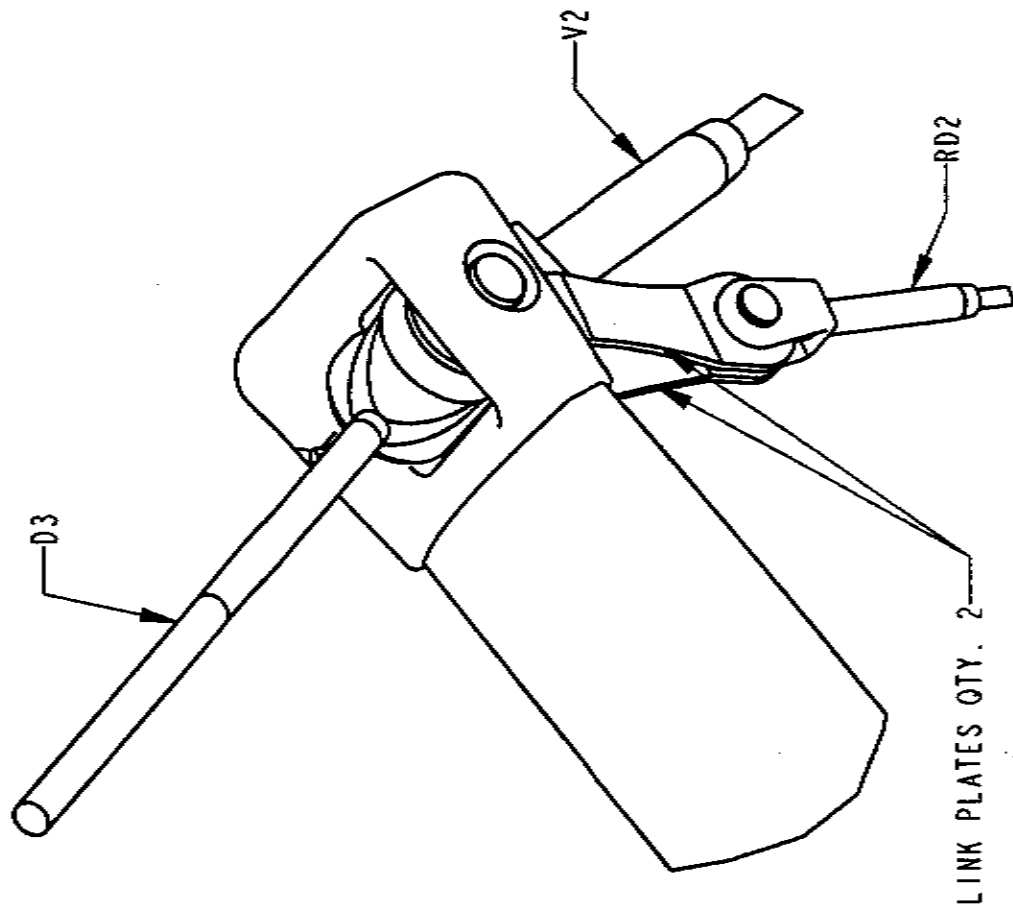


See Hunter website for full specifications. No parting rights.

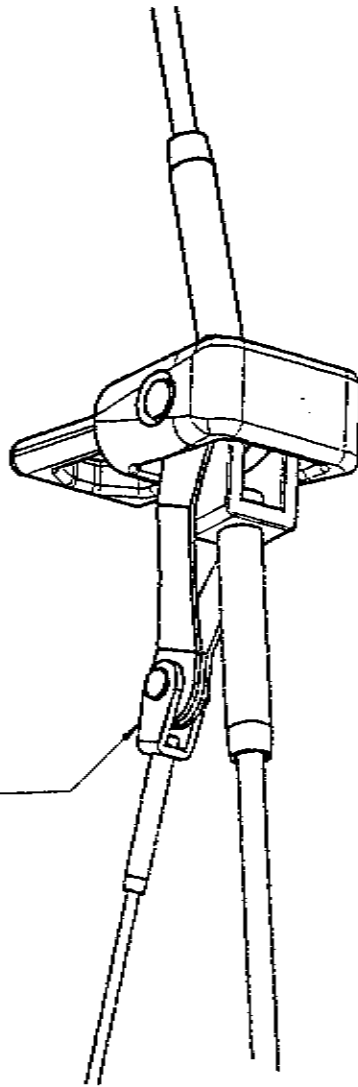
SEALER MUST LOWER SPREADER TIP

HUNTER

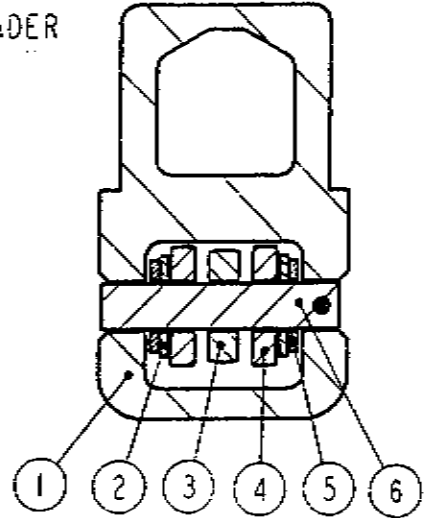
| | | | |
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| Part No. | REV. | DATE | BY |
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UPPER SPREADER



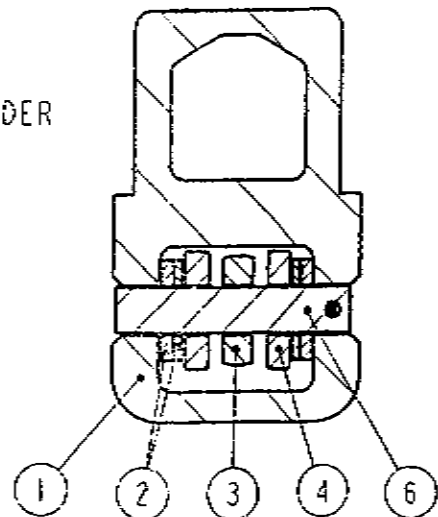
NYLON WASHERS
BETWEEN STRIPS
TO FILL OUT
EXCESSIVE PLAY



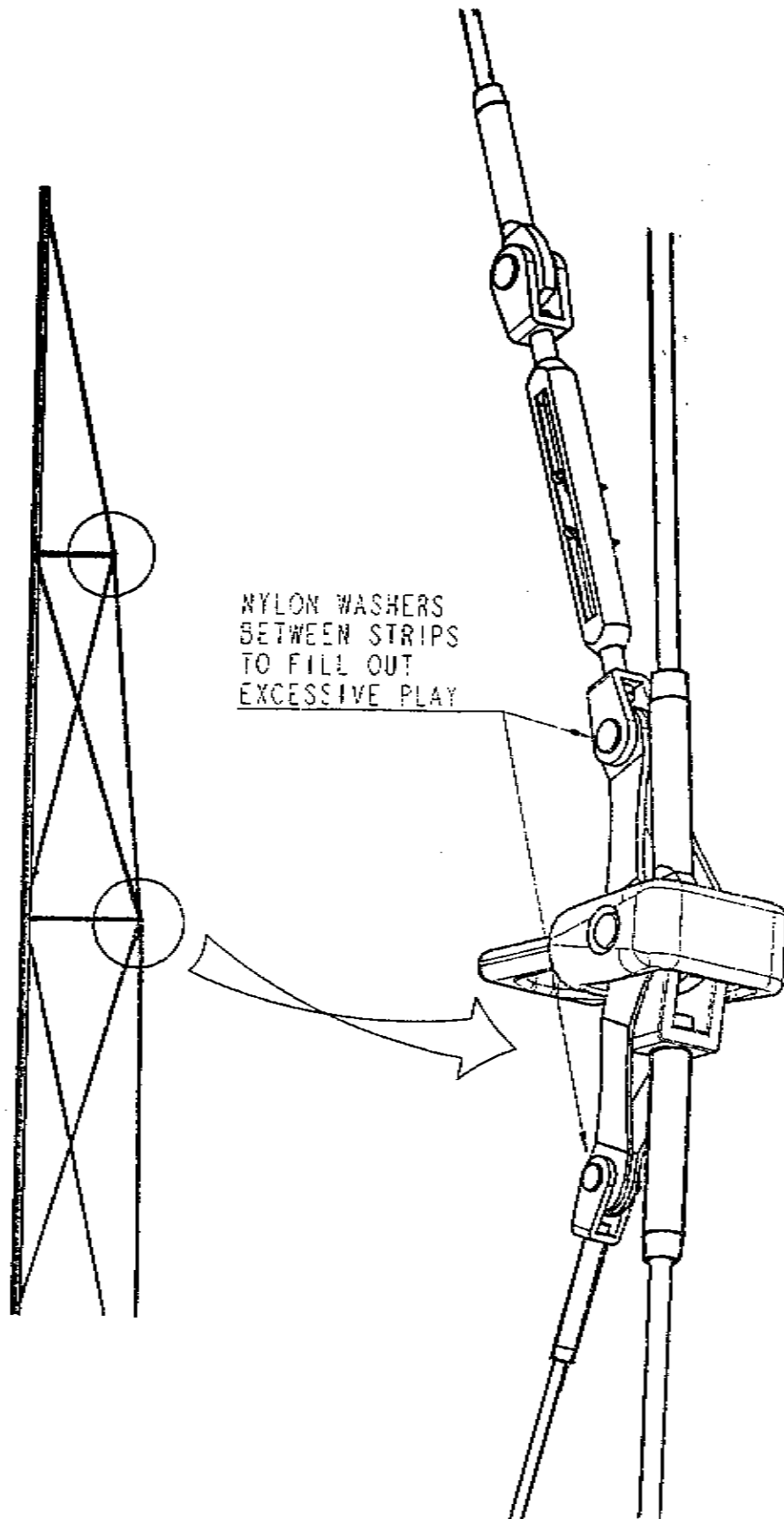
1. SPREADER TIP CASTING
2. NYLON WASHER
3. MARINE EYE
4. TOGGLE
5. LINK PLATES
6. SPREADER TIP PIN

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

LOWER SPREADER



HUNTER & ...
 SLDEN MAST SPREADER TIP DETAIL
 4008049C
 NONE
 3/3/89
 ENGINEERING DEPT.



NYLON WASHERS
 BETWEEN STRIPS
 TO FILL OUT
 EXCESSIVE PLAY

H460 SELDEN STANDARD STANDING RIGGING SPECIFICATIONS

BY: K/JC DATE: 25-Jan-98 REVISION: SHORTEN V1 BY 1.5" FROM 24'-1" TO 23'-11.5" 3/18/99

| OPT/STD | ITEM | QUANTITY | WIRE SIZE | UPPER END | LENGTH | LOWER END |
|---------|--------------------|----------|---------------------|---------------------------|------------------------------|---|
| 1 STD | D3 | 2 | 3/8" (9.5mm) 1x19 | 841-3/8 SHROUD TERMINAL | 4.089 m 13 ft. 5 in. | MARINE EYE FOR 5/8" PIN |
| 2 STD | V2 | 2 | 3/8" (9.5mm) 1x19 | JAW TOGGLE FOR 5/8" PIN | 5.293 m 17 ft. 4 3/8 in. | MARINE EYE FOR 5/8" PIN |
| 1 STD | D2 | 2 | 5/16" (8mm) 1x19 | 841-5/16 SHROUD TERMINAL | 5.197 m 17 ft. | 10-16-16 TURNBUCKLE W/ EYE FOR 5/8" PIN |
| 2 STD | V1 | 2 | 3/8" (9.5mm) DYFORM | JAW TOGGLE FOR 5/8" PIN | 7.303 m 23 ft. 11 1/2 in. | 12-20-20 TURNBUCKLE |
| 3 STD | D1 | 2 | 3/8" (9.5mm) DYFORM | 841-3/8 SHROUD TERMINAL | 7.112 m 23 ft. 4 in. | 12-20-20 TURNBUCKLE |
| 3 STD | UPPER DIAMOND, RD2 | 2 | 1/4" (6.4mm) 1x19 | JAW TOGGLE W/ 1/2" PIN | 5.197 m 17 ft. | 8-12-12 T-TANG W/ 841-1/4 BACKING PLATE |
| 4 STD | LOWER DIAMOND, RD1 | 2 | 1/4" (6.4mm) 1x19 | JAW TOGGLE W/ 1/2" PIN | 4.645 m 15 ft. 2 7/8 in. | 8-12-12 TURNBUCKLE WITH UPSET EYE/JAW TOGGLE (1/2" PIN) |
| 5 OPT. | INNER FORESTAY | 1 | 9/32" (7.1mm) 1x19 | 841-9/32 SHROUD TERMINAL | 12.579 m 41 ft. 3 1/4 in. | FORESTAY QUICK RELEASE LEVER W/ 1/2" PIN |
| 5 STD | FORESTAY | 1 | 3/8" (9.5mm) 1x19 | MARINE EYE WITH 5/8" HOLE | 17.729 m 58 ft. 2 in. | GIBB 10-20-20 TURNBUCKLE W/ JAW TOGGLE LOOSE |

H460 SELDEN FURLING STANDING RIGGING SPECIFICATIONS

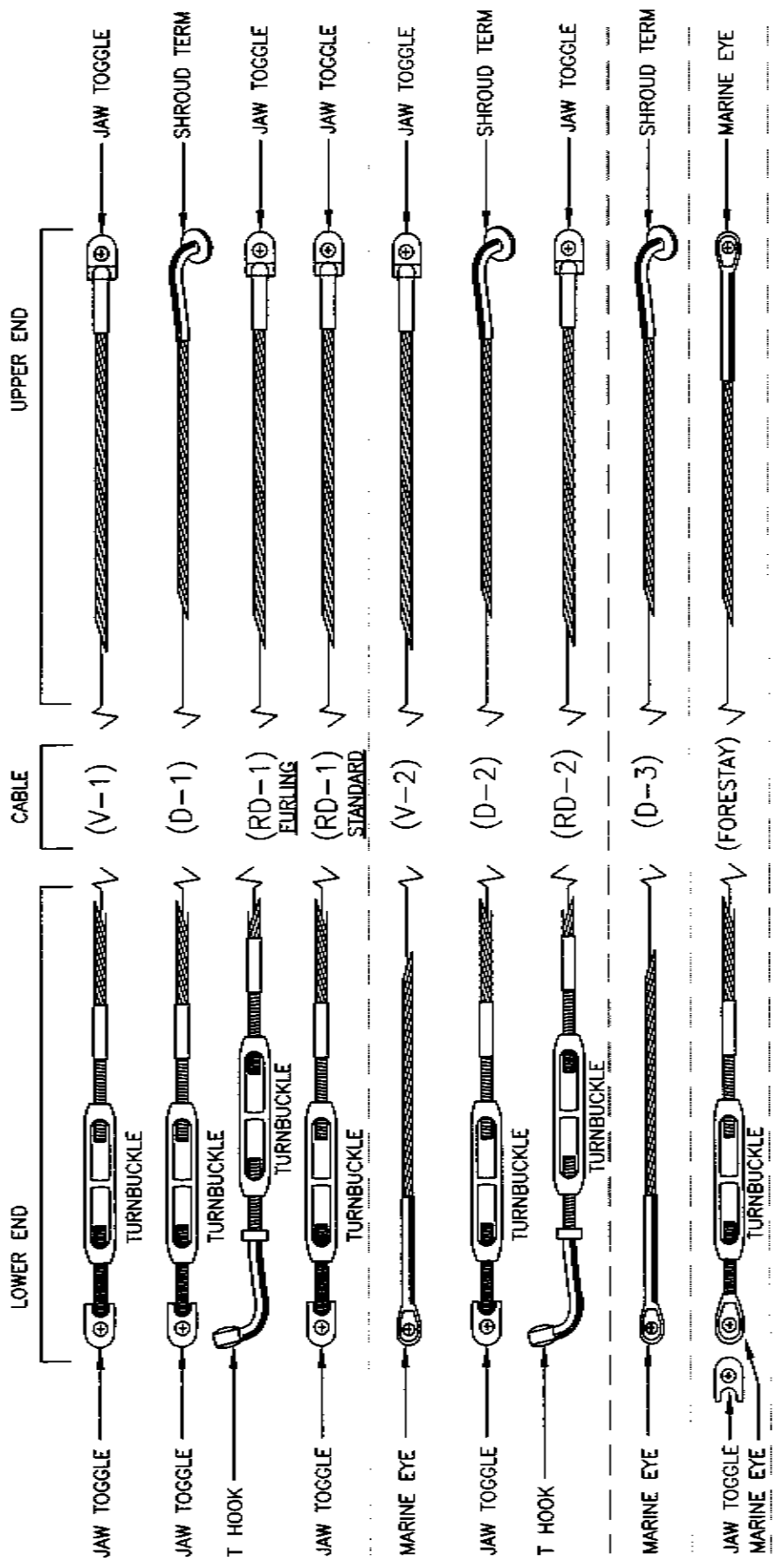
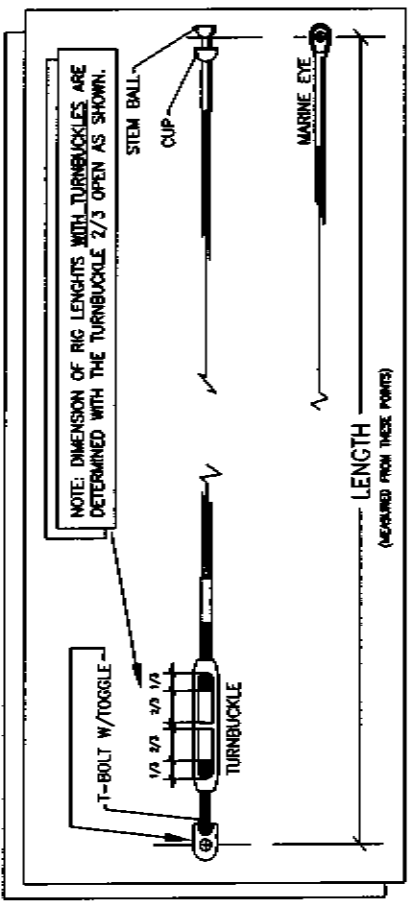
BY: **KJC** DATE: **12-Nov-98** REVISION:

| OPT/STD | ITEM | QUANTITY | WIRE SIZE | UPPER END | LENGTH | LOWER END |
|---------|---------------------------|----------|----------------------|---|---------|---|
| 1 | STD D3 | 2 | 3/8" (9.5mm) 1 X 19 | RBS 10, BC10, SB12 STEMBALL IN BACKING SHELL | 4.54 m | 14.91 ft. ME12 MARINE EYE |
| 2 | STD V2 | 2 | 3/8" (9.5mm) 1 X 19 | RTJ1220 JAW TOGGLE | 5.24 m | 17.18 ft. ME12 MARINE EYE |
| 1 | STD D2 | 2 | 5/16" (8mm) 1 X 19 | RTJ1220 JAW TOGGLE | 5.15 m | 16.88 ft. TB122020 12-20-20 TURNBUCKLE |
| 2 | STD V1 | 2 | 3/8" (9.5mm) DYFORM | RBS 07A, SB10 STEMBALL IN BACKING SHELL | 6.92 m | 22.69 ft. 10-16-16 TURNBUCKLE W/ EYE |
| 3 | STD D1 | 2 | 3/8" (9.5mm) DYFORM | RBS 10, BC10, SB12 STEMBALL IN BACKING SHELL | 6.67 m | 21.87 ft. 12-20-20 TURNBUCKLE W/ JAW TOGGLE |
| 3 | STD UPPER DIAMOND, RD2 | 2 | 1/4" (6.4mm) 1 X 19 | MEO8 MARINE EYE | 5.15 m | 16.90 ft. 8-12-12 STEMBALL TURNBUCKLE IN BACKING SHELL |
| 4 | STD LOWER DIAMOND, RD1 | 2 | 1/4" (6.4mm) 1 X 19 | MEO8 MARINE EYE | 6.04 m | 19.82 ft. 8-12-12 STEMBALL TURNBUCKLE WITH JAW TOGGLE |
| | OPT. INNER FORESTAY | 1 | 9/32" (7.1mm) 1 X 19 | SBENG116 J2001616, MEO9, STEMBALL, EYE, JAW TOGGLE SBENG220, | 12.49 m | 40.98 ft. FORESTAY QUICK RELEASE LEVER |
| 5 | STD FORESTAY | 1 | 3/8" (9.5mm) 1 X 19 | J2002020, MEO12, STEMBALL EYE, JAW TOGGLE | 17.32 m | 56.81 ft. GIBB 10-20-20 TURNBUCKLE W/ JAW TOGGLE LOOSE |

H460 STANDING RIGGING SPECS. (FURL)
 Part No. 46080508 Revision No. NONE
HI INTERD

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

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



HUNTER
 H460 RIGGING LENGTHS DETAIL
 DRAWING NO. 4608051
 PERSONAL FILE NONE
 DATE 11/12/96
 ENGINEERING DEPT

TUNING THE H460 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 10" (254.0mm) for the standard rig and no more than 2" (50 mm) 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 1-1/2' 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 H460 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. If not 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. If not then adjust the lowers (D1) until it is.
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

TUNING THE H460 B&R RIG

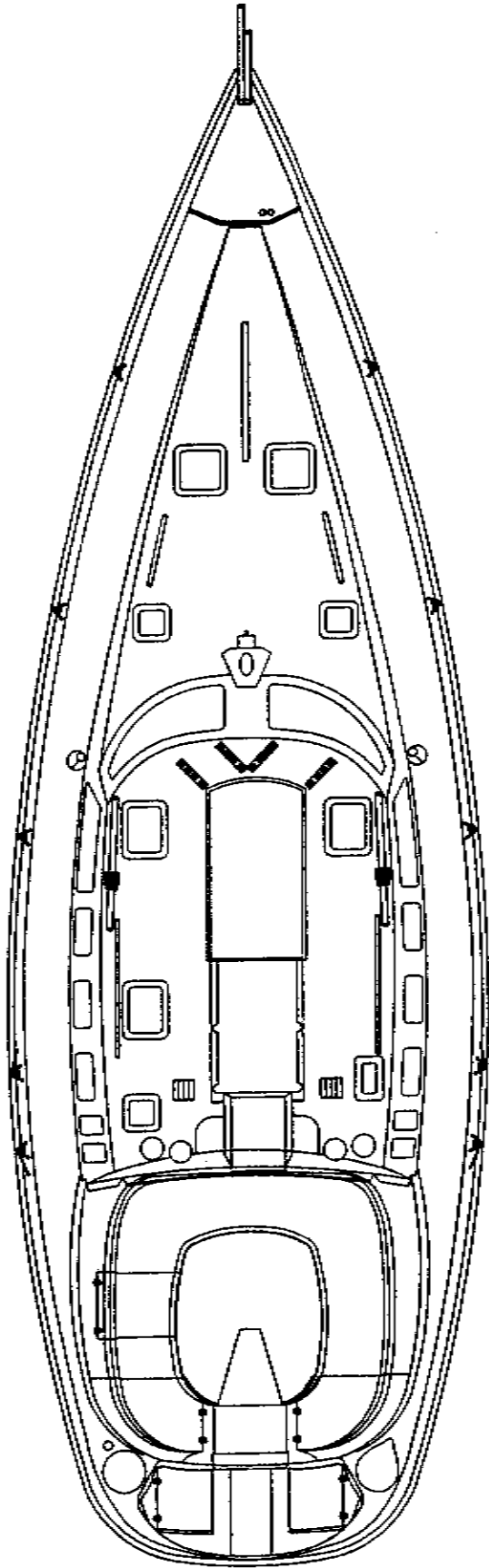
the ball joint bearing in the upper end of the strut until the holes in the pin can be attached. It is normal to have some play between the strut and the chainplate and strut bracket

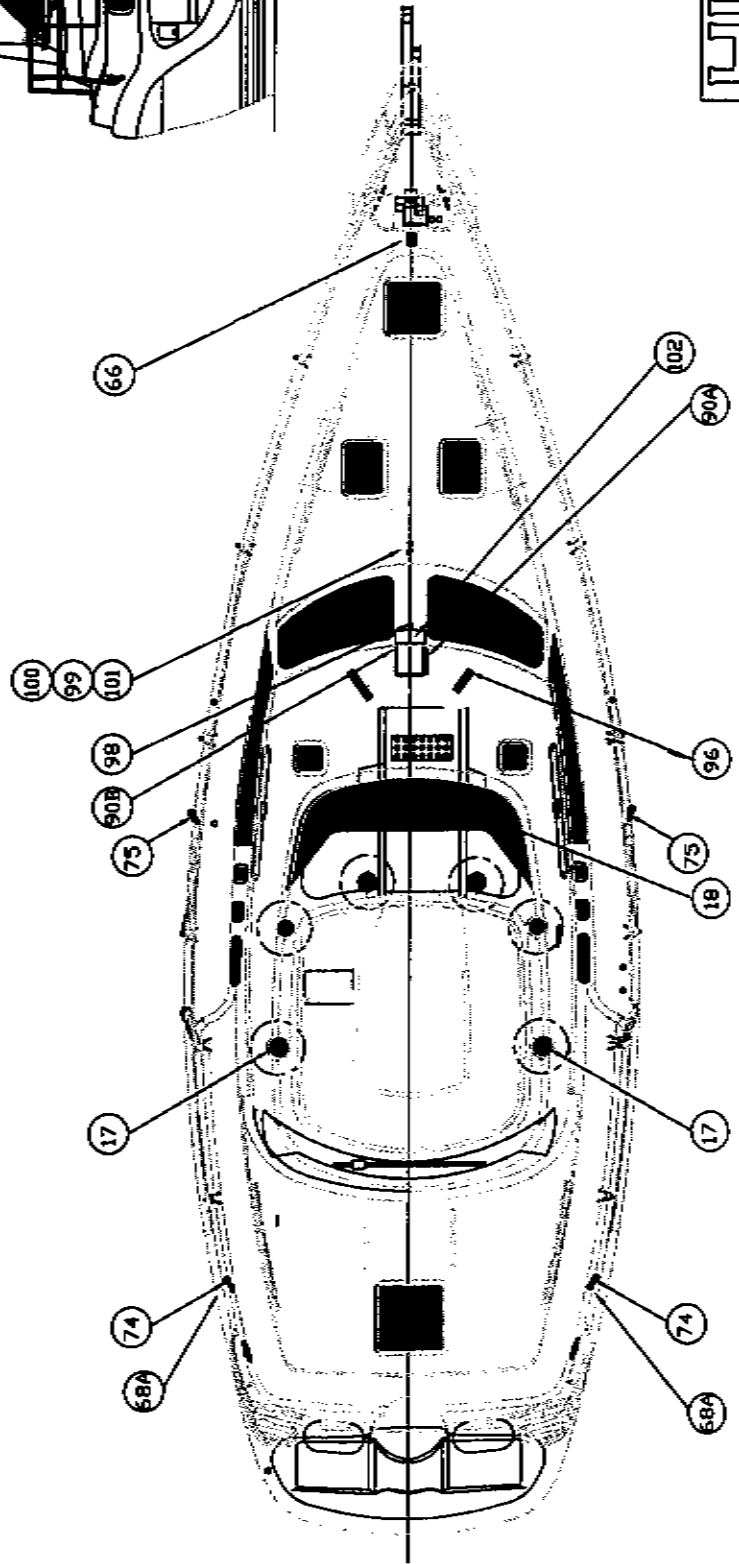
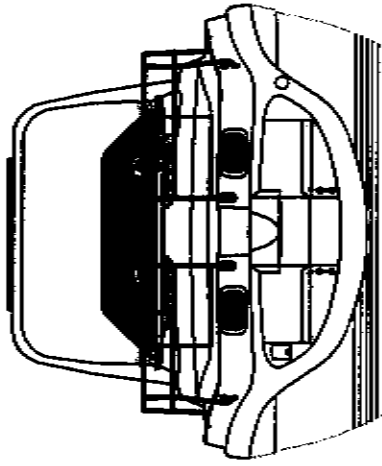
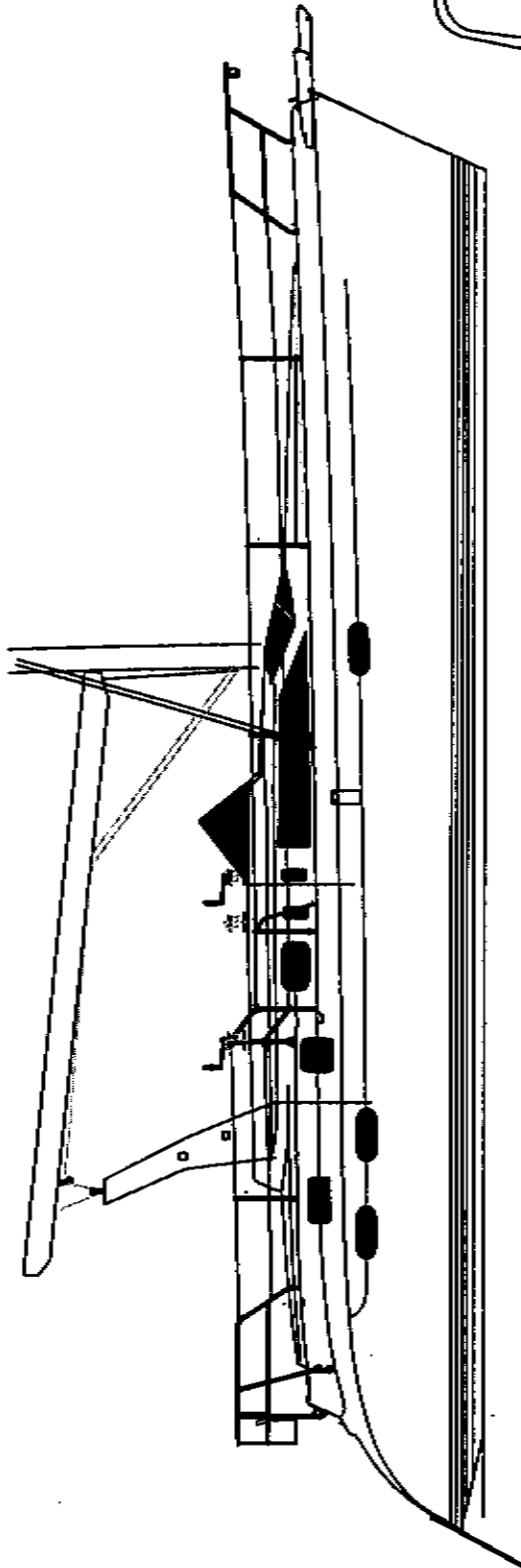
Caribbean it should be replaced every 2-3 years compared to every 10 for the great lakes. You should consult a professional rigger for advice.

9. The final test is to go sailing in 10-15 knots of wind. First, adjust the tension in the shrouds. 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 14" of headstay sag, the bend in the standard mast should be about 1' and 4" 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

SEE PAGES 38B & 38C ALSO 40A & 40B FOR
OPTIONAL DECK HARDWARE INFORMATION.

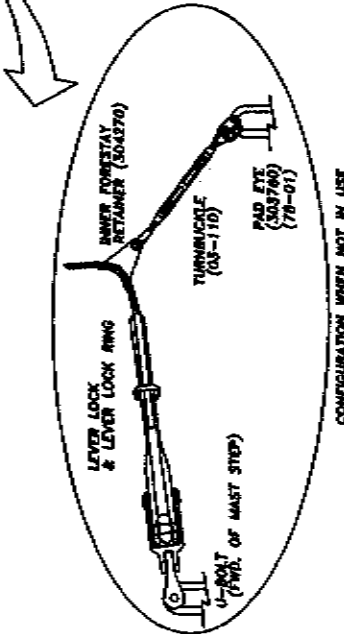
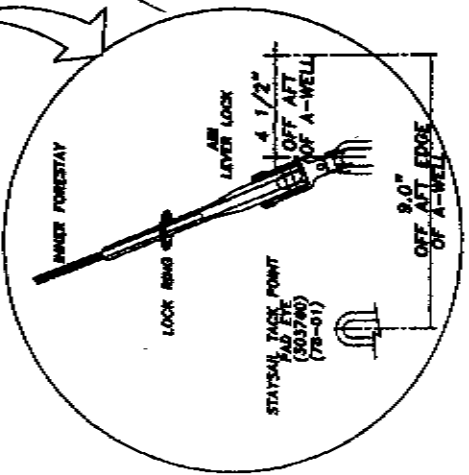
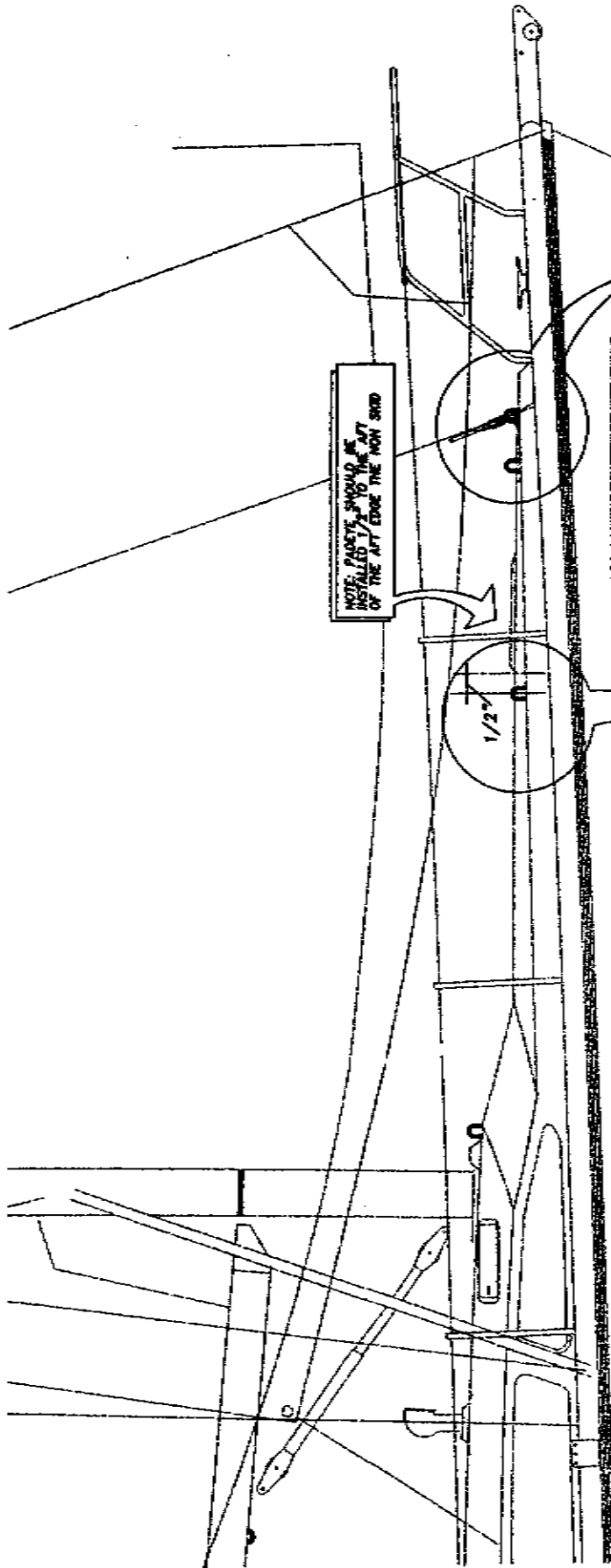




HUNTER

H-450 OPT HDWE
 446DI401 THAW SPIN. & STAYS.
 & DOWNMANOPT. LAYERS

OPTIONAL SPINNAKER/STAYSAIL/HDWE. LAYOUT



| OPTIONAL GEAR | | | | |
|-------------------------------|-----------------------|-----------------|----------------|-------------|
| SPIN. WINCH OPTION | | | | |
| 17 WINCH | COCKPIT / SPINN.SHEET | LEWMAR | COAST STD.50ST | 2 HW2553 |
| 75 SNATCH BLOCK | MID RAIL | SCHAEFER | 11--99 | 2 |
| SPIN OPTION | | | | |
| 74 SPIN BLOCK | AFT COAMINGS | SCHAEFER | 10--15 | 2 |
| 90A SPIN. MAST BLOCK | | Z-SPAR | PN288 | 1 |
| SPIN. MAST HEAD BLOCK | MAST HEAD | HARKEN | 1540 | 1 |
| CRUSING SPINN. SHEET | | | | 2 R10905-09 |
| SPINN. HALYARD | | | | 1 R10905-10 |
| CRUISING SPIN. OPTION | | | | |
| 68A PAD EYE | | SCHAEFFER 78-99 | | 2 HWO841 |
| STAYSAIL OPTION | | | | |
| 98 U - BOLT | IN FRONT OF MAST | EPCO | | 1 HW5512 |
| 101 PADEYE | IN FRONT OF MAST | SCHAEFER | 78-01 | 1 HW0850 |
| 100 TURNBUCKLE | IN FRONT OF MAST | JOHNSON | 03-110 | 1 RIO124 |
| 99 INNER FORSTAY RETAINER | IN FRONT OF MAST | | | 1 RIO122 |
| 66 INNER FORESTAY BASE | | ABI | 2140CH | 1 HW1617 |
| INNER FORESTAY MOUNTING HDWR. | | | | |
| 90B STAYSAIL MAST BLOCK | | Z-SPAR | PN288 | 1 |
| 96 DK ORGANIZER (SIX) | STARBOARD | HARKEN | 1503 | 2 HW0384 |
| | REPLACES ITEM# 95 | | | |
| 1B SHEET STOPPER (QUAD) | STARBOARD | SPINLOCK | QUAD(XT/4) | 1 HW1283 |
| | REPLACES ITEM # 97 | | | |
| STAYSAIL HALYARD | | | | 1 R10905-11 |
| STATSAIL SHEETS | | | | 2 R10905-12 |
| FURLING OPTION | | | | |
| 102 FURLING MAST STEP | | Z-SPAR | | 1 RIO499 |
| | | | | |
| | | | | |
| | | | | |
| | | | | 4452063A |

ENGINE OPERATING INSTRUCTIONS:

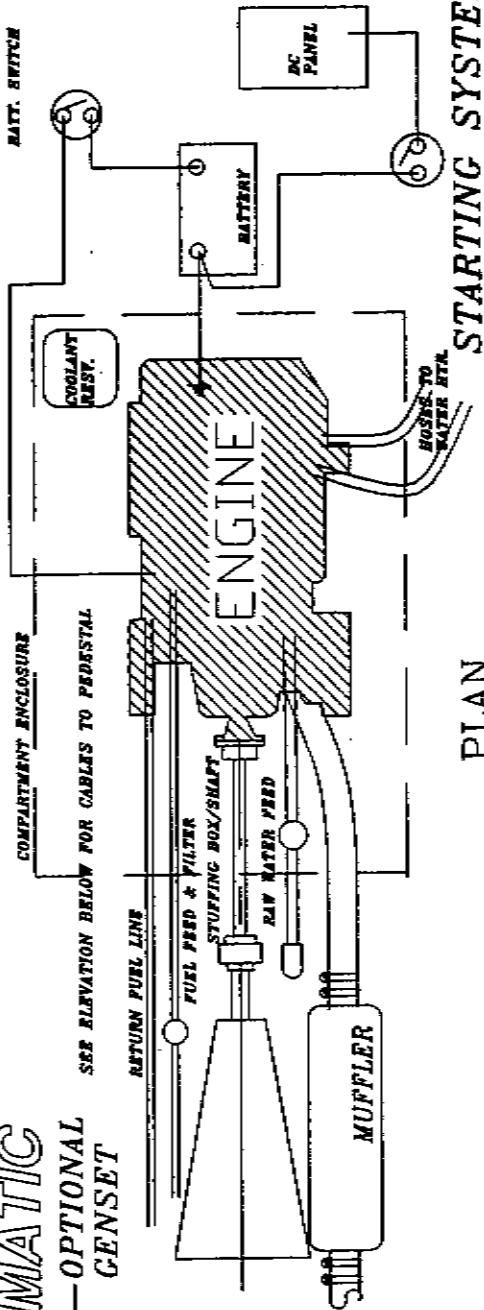
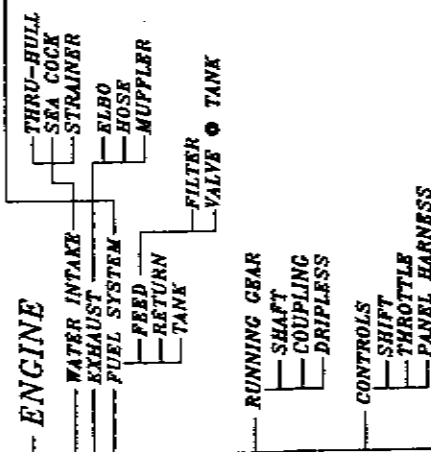
- ① FILL DIESEL TANK WITH DIESEL FUEL
- ② CHECK ENGINE OIL LEVEL (SEE YANMAR MANUAL)
- ③ OPEN ENGINE RAW WATER PICKUP SEACOCK (SEE PAGE 60A)
- ④ TURN ON "START BATTERY SELECTOR SWITCH" (LOCATED AT NAVIGATION STATION)
- ⑤ TURN KEY TO START POSITION, RELEASE WHEN ENGINE STARTS
NOTE' IF ENGINE APPEARS TO HAVE TROUBLE STARTING, SEE YANMAR MANUAL
- ⑥ TO SHUT ENGINE DOWN: PUSH RED BUTTON AT KEY SWITCH PANEL
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.

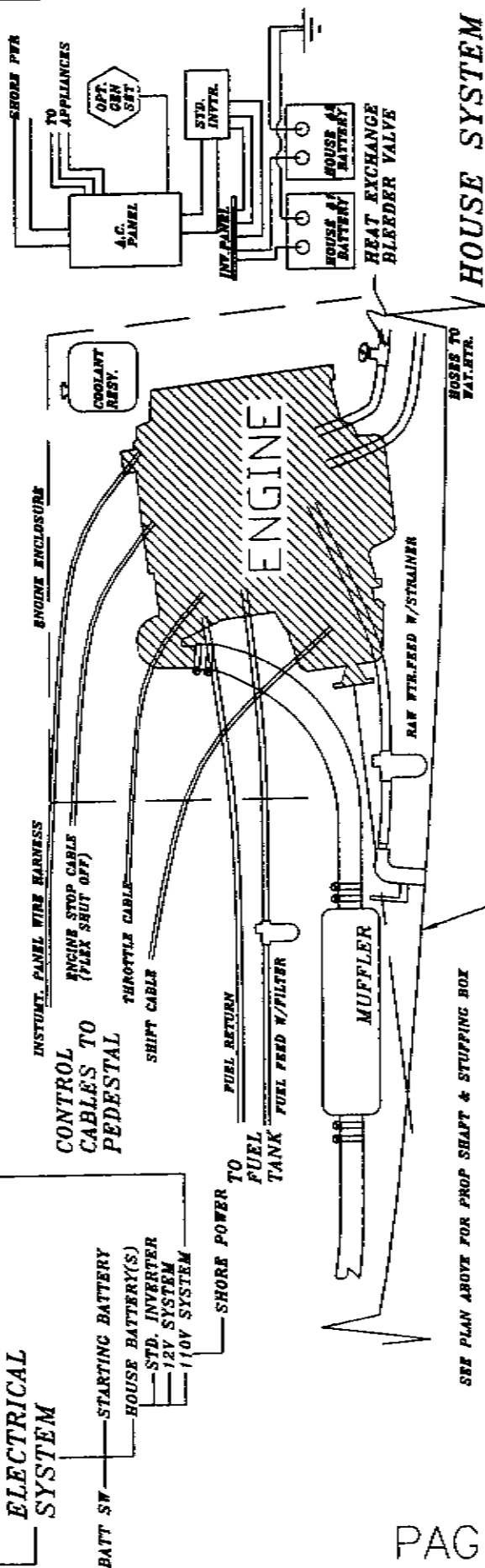
SEE PAGE 63E-1 FOR OPTIONAL GENERATOR OPERATING INSTRUCTIONS

SYSTEMS SCHEMATIC

OPTIONAL GENSET



PLAN



SEE PLAN ABOVE FOR PROP SHAFT & STUFFING BOX

ELEVATION

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

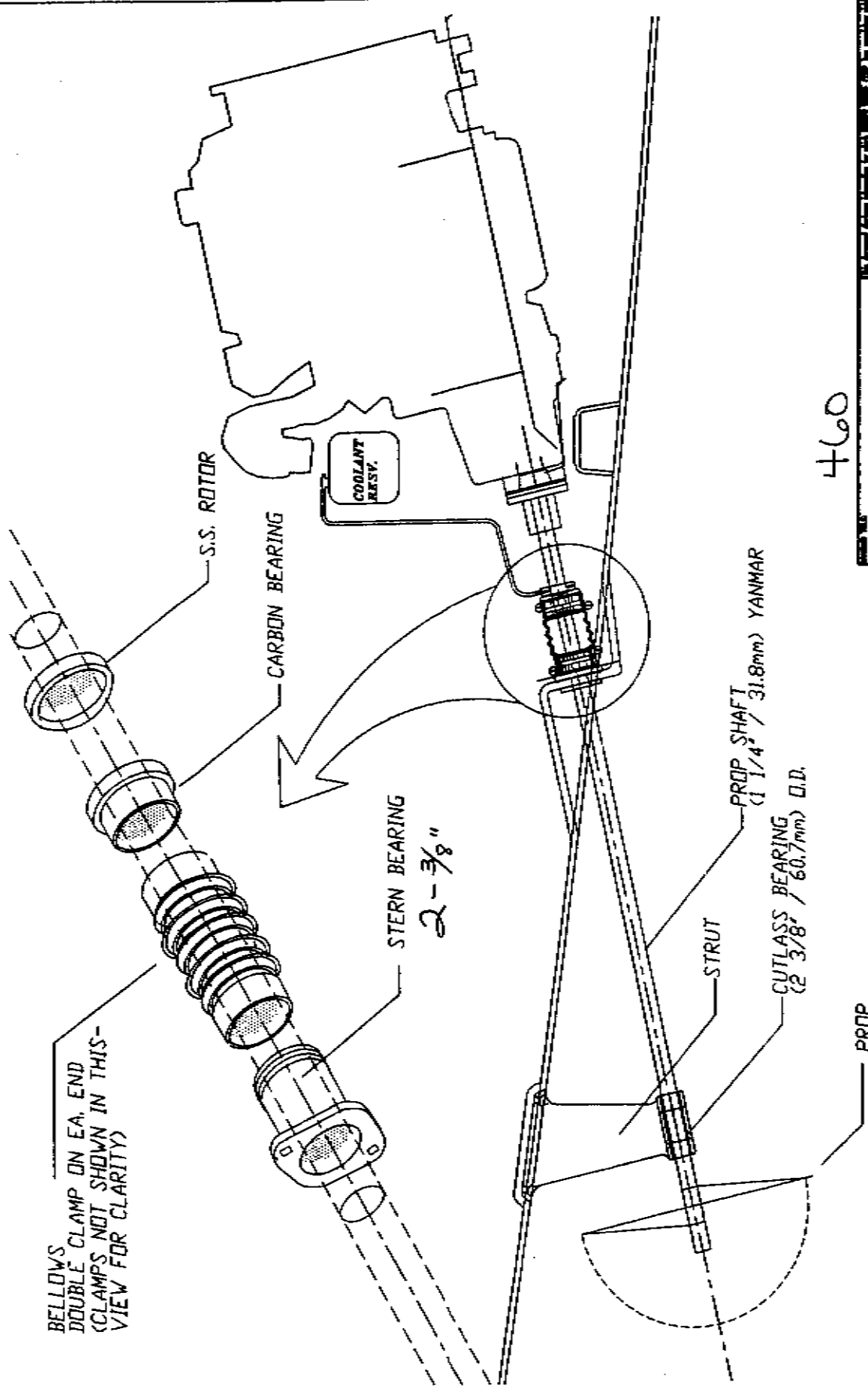
stern bearing

5" long x 1/2 OD x 1/4"

DRIPLESS PACKING GLAND
DETAIL

SEE FOLLOWING PAGES FOR DETAILED
INSTALLATION & TROUBLESHOOTING DETAILS

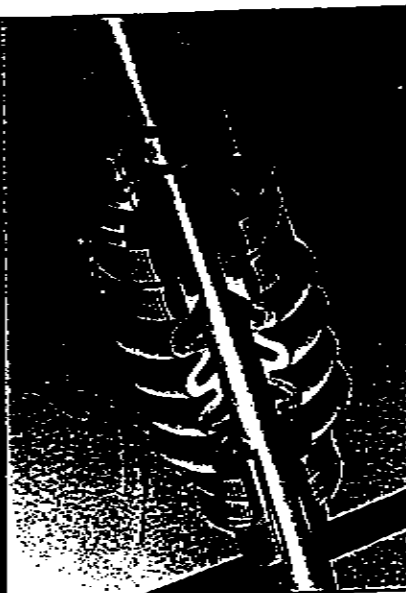
BELLOWS
DOUBLE CLAMP ON EA. END
(CLAMPS NOT SHOWN IN THIS-
VIEW FOR CLARITY)



PROP
SEE PAGE 37 FOR LIST OF PROP SIZES

460

PACKLESS SEALING SYSTEM



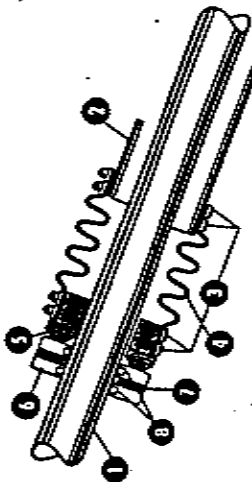
SHAFT SEAL

INSTALLATION INSTRUCTIONS

For Shafts:
3/4" to 3 3/4"
(22mm to 90mm)

STANDARD P.S.S. SHAFT SEAL:

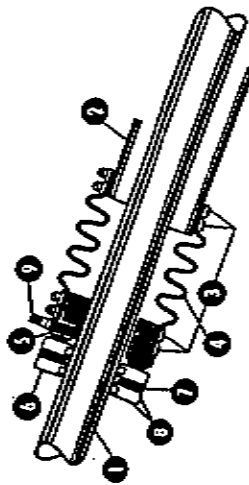
Hull Speed Under 12 knots.
(Boats equipped with water injected stuffing box, use high speed.)



- 1 Propeller Shaft
- 2 Shaft Log (Stem Tube)
- 3 Stainless Steel Hose Clamps (4)
- 4 Reinforced Bellows (1)
- 5 Carbon Graphite Flange (1)
- 6 Stainless Steel Rotor (1)
- 7 Stainless Steel Set Screws (5 total / 4 for Rotor, 1 Spare)
- 8 Nitrite O-Rings (2 in Rotor / 2 Spare)

HIGH SPEED P.S.S. SHAFT SEAL:

Hull speed over 12 knots and boats with water injected stuffing box.



- 1 Propeller Shaft
- 2 Shaft Log (Stem Tube)
- 3 Stainless Steel Hose Clamps (4)
- 4 Reinforced Bellows (1)
- 5 Carbon Graphite Flange (1)
- 6 Stainless Steel Rotor (1)
- 7 Stainless Steel Set Screws (5 total / 4 for Rotor, 1 Spare)
- 8 Nitrite O-Rings (2 in Rotor / 2 Spare)
- 9 Nylon Hose Barb Fitting

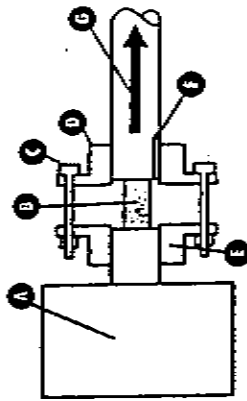
READ INSTRUCTIONS THOROUGHLY

- Do not use grease or oil to slide the stainless steel rotor down the shaft.
- Do not allow petroleum based antifreeze to come in contact with face of the seal when winterizing engine.
- Install the P.S.S. Only when the boat is out of the water.
- Do not damage the carbon flange or stainless steel rotor while unpacking and handling.
- Do not tighten nylon hose barb fitting or replace with stainless or

INSTALLATION INSTRUCTIONS

1. Unbolt the shaft coupling from the transmission coupling.
 2. Remove the shaft coupling from the shaft. (On most installations the coupling is fixed to the shaft by two set screws that are wired together).
- Helpful hint: Removing the shaft from the shaft coupling may be difficult. The drawing below shows the use of a spacer as a press between the propeller shaft and the transmission coupling.

REMOVING THE SHAFT COUPLING:



- 1 Transmission Coupling
- 2 Spacer
- 3 Shaft Coupling
- 4 Key
- 5 Shaft

- A. Insert a spacer (with a diameter smaller than the shaft) between the shaft and transmission coupling.
- B. Bolt the transmission coupling and shaft coupling back together with the spacer fit between (note: this may require longer bolts). The spacer will act as a press to drive the shaft from the shaft coupling as the bolts are tightened.

3. Remove the old stuffing box and rubber hose to expose the shaft lug (stern tube).

If your boat is equipped with a bolt-on or rigid stuffing box, please refer to heading: Bolt-on or rigid stuffing boxes.

If your boat is equipped with a threaded stuffing box, please refer to heading: Threaded stuffing boxes.

4. Slide the open end of the bellows and two hose clamps over the shaft log. The carbon flange (5) should already be securely attached to the bellows.

5. Clean the shaft (6) with very fine sand paper or emery paper (400 to 600 grit), paying particular attention to the shaft keyway to make certain there are no burrs or sharp edges that could tear the O-rings.

6. Make sure the O-rings (8) are positioned in the grooves of the rotor (spare O-rings are provided) and that the set screws (7) are backed out so that they do not extend into the inside bore of the rotor. Slide the stainless steel rotor (6) onto the shaft using a water soluble lubricant like dish soap to help the rotor slide easily. Do not use grease or oil.

- Attach shaft and shaft coupling (do not forget to secure coupling with set screws. Wire set screws together to avoid loosening).
- Position the bellow on the stern tube so the carbon is centered around shaft (the carbon graphite flange is bored larger than the shaft to compensate for vibration or misalignment). Clamp the cuff of the bellow to the shaft log with the two stainless steel hose clamps.
- Slide the stainless steel rotor down the shaft so it just comes in contact with the carbon graphite flange. Mark this "neutral" position on the shaft just in front of the stainless steel rotor with a marker or tape.
- Using the stainless steel rotor, compress the bellow the amount indicated on the bellow compression chart (the "neutral" mark on the shaft is used as a reference to measure the amount of compression). While keeping the bellow compressed, tighten the two set screws to secure the rotor to the shaft. Once these set screws are secured, a second pair of screws are stacked on top of the first to act as locking screws to prevent the lower screws from possibly backing away from the shaft.

BELLOW COMPRESSION CHART:

| Shaft diameter | Compression amount |
|------------------------------------|--------------------|
| 3/4" to 1 1/8" (22mm to 30mm) | 3/4" (20mm) |
| 1 1/4" to 2" (32mm to 55mm) | 1" (25mm) |
| 2 1/4" to 3 3/4" (60mm to 95mm) | 1" (25mm) |

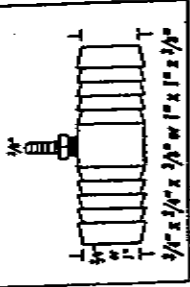
Note: amount of compression may vary depending on motor mounts and shaft misalignment.

- High speed seals with nylon hose barb fitting reference 11-A; Standard speed seals reference 11-B.

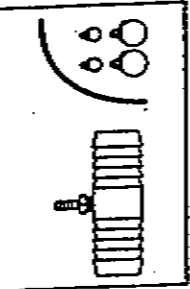
11-A. High speed seals with a nylon hose barb fitting require that water be plumbed into the seal to cool and lubricate the seal. There are three methods for plumbing water into the seal:

- Remove the plug from heat exchanger and replace plug with a hose barb fitting (this plug would normally be used to drain water from the engine). Run a reinforced hose to the shaft seals nylon hose barb (3/8"). Secure both with hose clamps.
- Cut into the exhaust line of the cooling system before hot water is discharged overboard. Fit T-adaptor into line and plumb water into shaft seal nylon hose barb (3/8"), using reinforced hose. Secure all connections with hose clamps.

T-ADAPTER



TEKIT



Note: P.Y.I. T-adapter fittings or T-adaptor kits (T-adaptor, 6' reinforced hose, 4 hose clamps) are available for 3/4" or 1" internal hose diameters.

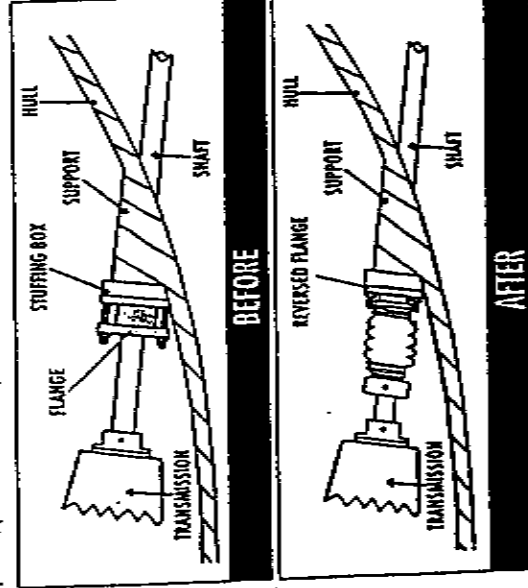
- For keel cooled or in-line systems, water can be plumbed into the seal from an underwater scoop.

11-B. Standard speed seals. When a boat with a watertight (P.S.) seal goes back in the water, there will be an air pocket trapped in the shaft log (stern tube). This air pocket must be vented when the boat is launched, so water can reach the face of the seal to help cool and lubricate it. To vent the air pocket, simply compress the bellow (push the carbon away from the stainless steel rotor with your hand) so that water fills the shaft log (stern tube). A small amount of water will enter the boat at this time and will stop as soon as you release the bellow, allowing the two faces to come back in contact.

This procedure should be done every time the boat goes back in the water and is not required with high speed seals.

BOLT-ON OR RIGID STUFFING BOXES:

If your stuffing box is a bolt-on or rigid type, you will need to reverse the flange that was used to compress the packing. This flange will be bolted to the face of the bolt-on stuffing box and sealed with a gasket so no water can leak through. Once reversed, the bellow can be fit over the tube that was used to compress the packing. When completed, proceed with step #4 of instructions.



THREADED STUFFING BOX:

If your old stuffing box was threaded directly into the hull, you will need to cover the threads with a liquid gasket material like "Form-a-gasket" to prevent the threads from cutting into the bellow. When completed, proceed with step #4 of instructions.

BREAK-IN PERIOD:

There is, on average, a 10 minute break-in period when the carbon graphite flange will polish the face of the stainless steel rotor. During this break-in period there will be a very fine black mist being emitted when shaft is turning at high R.P.M.'s.

TROUBLESHOOTING:

- Spray or mist during operation:

Dimensions provided in the bellow compression chart are an average and should act as a guide. If you should experience any spray or misting during high speed operation (after break-in period), add an additional 1/8" compression to the bellow with the rotor and repeat until the spray has stopped.

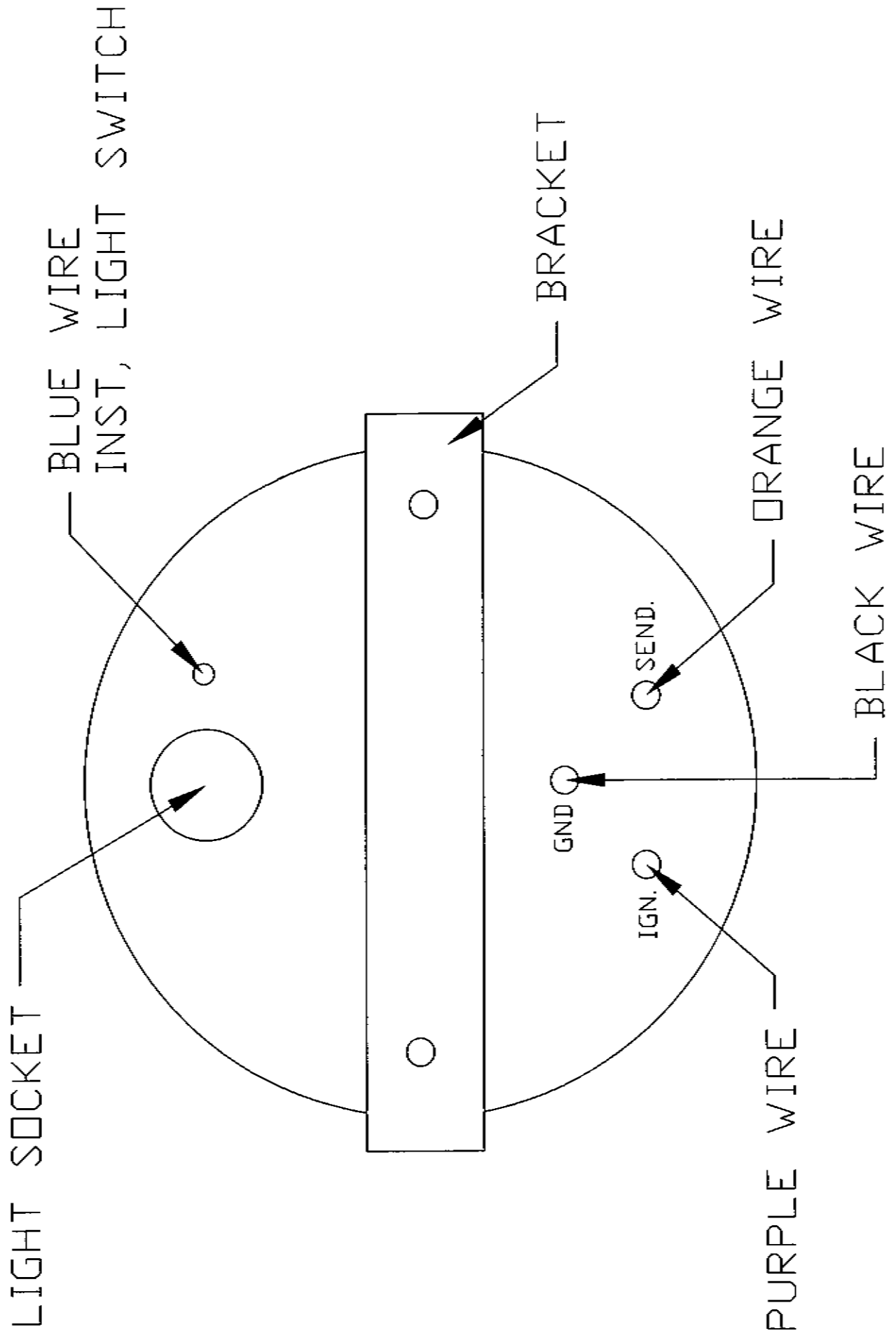
- Dripping while not operational:

If the seal leaks when the shaft is not turning, some foreign material such as grease or oil may be prohibiting the two faces from seating properly. To clean this foreign material from the two faces, insert a clean cloth rag between the carbon graphite and stainless steel rotor and rotate it around the shaft vigorously. As you do this, water will flush both faces of any impurities. Remove the rag from the seal and the leak should stop.



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E-Mail: pyi@pyi.com

460 Tachometer



| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|---------------------------------------|----|--------------|
| |BB020025 | 30 | 5 | H460-ENGINE CONTROL | EA | 1.0000 |
| 56 |256742 | 50 | 300 | BUSS BAR #M449 - 10 GANG | EA | 1.0000 |
| 34 |312590 | 60 | 150 | PANEL, ENGINE, "C" #12974-91160, H460 | EA | 1.0000 |
| 56 |313010 | 80 | 150 | CONTROL RIGHT HAND MV-2 BERKELEY #3 | EA | 1.0000 |
| 26 |313173 | 35 | 150 | CABLE, CONTROL CCL172 3300-22' | EA | 1.0000 |
| 26 |313177 | 30 | 150 | CABLE CONTROL 33C #20' | EA | 1.0000 |
| 26 |313185 | 70 | 150 | CABLE BRAKE, 44386 MORSE | EA | 1.0000 |
| 27 |460210 | 10 | 600 | CABLE TIES 8" BLACK W/EYE | EA | 20.0000 |
| 27 |466670 | 20 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 20.0000 |
| |BB030001 | 20 | 5 | SHAFT INSTALLATION SUB ASSEMBLY | EA | 1.0000 |
| |BB030005 | 10 | 5 | H460-SHAFT INSTALLATION | EA | 1.0000 |
| 27 |101130 | 80 | 105 | CAULK 5200 | TB | 0.5000 |
| 26 |316570 | 50 | 150 | STRUT H-42 H-43 #SEF 4855 | EA | 1.0000 |
| 27 |462290 | 30 | 600 | F/H PHIL 3/8-16 X 3" S/S M/S | EA | 4.0000 |
| 27 |465110 | 10 | 600 | NUT HEX 3/8-16 S/S H/N | EA | 4.0000 |
| 27 |469270 | 40 | 600 | WASHER FLAT 3/8" S/S F/W | EA | 4.0000 |
| 27 |469510 | 20 | 600 | WASHER LOCK 3/8" S/S L/W | EA | 4.0000 |
| |BB030015 | 20 | 5 | H460-SHAFT THRU HULL MOUNTING | EA | 1.0000 |
| 27 |101130 | 70 | 105 | CAULK 5200 | TB | 0.2500 |
| 26 |310290 | 90 | 150 | STERN BEARING (2-3/8 OD) | EA | 1.0000 |
| 26 |312971 | 60 | 150 | SEAL, SHAFT, DRIPLESS, 01-114-212 | EA | 1.0000 |
| 27 |460370 | 20 | 600 | CAR HD 3/8-16 X 2" S/S C/B | EA | 2.0000 |
| 27 |465110 | 10 | 600 | NUT HEX 3/8-16 S/S W/N | EA | 2.0000 |
| 27 |469510 | 30 | 600 | WASHER LOCK 3/8" S/S L/W | EA | 2.0000 |
| 27 |469610 | 40 | 500 | WASHER NEO 3/8" S/S W/N/B 7/8 O | EA | 2.0000 |
| |BB030025 | 30 | 5 | H460-SHAFT MOUNTING | EA | 1.0000 |
| 26 |316310 | 10 | 150 | SHAFT, PROP, 1.25"X67.39" W/YANMAR C | EA | 2.0000 |
| 96 |316630 | 70 | 888 | NUT - HEAVY - 1 1/4" PROP SHAFT | EA | 2.0000 |
| 96 |316640 | 40 | 888 | NUT - JAM - 1 1/4" PROP SHAFT | EA | 1.0000 |
| 96 |333475 | 30 | 888 | PROP. SHAFT KEY FOR 1 1/4" S/S SHAF | EA | 1.0000 |
| 96 |333480 | 20 | 888 | PIN, PROPELLER SHAFT FOR 1 1/4" SHAF | EA | 1.0000 |
| 27 |460190 | 60 | 600 | CABLE TIES 15" W/O EYE BLACK | EA | 1.0000 |
| |BB040001 | 30 | 5 | ENGINE COOLING SYSTEM SUB ASSEMBLY | EA | 1.0000 |
| |BB040005 | 10 | 5 | H460-ENGINE COOLING | EA | 1.0000 |
| 27 |101130 | 110 | 105 | CAULK 5200 | TB | 0.2500 |
| 26 |286370 | 100 | 560 | LABEL, THRUHULL, "ENGINE PICKUP" | EA | 1.0000 |
| 26 |352635 | 20 | 250 | BRASS THRU HULL FITTING 1" #65-BN7- | EA | 1.0000 |
| 26 |352761 | 30 | 150 | STRAINER, 1" LINE 18005 | EA | 1.0000 |
| 26 |353193 | 120 | 250 | CLAMP DG-20 | EA | 2.0000 |
| 26 |353391 | 50 | 250 | HOSE CLAMP #16 | EA | 4.0000 |
| 26 |353877 | 60 | 250 | BALL VALVE (1") BRASS #70-105-10 | EA | 1.0000 |
| 26 |355353 | 80 | 250 | BARB, PIPE TO HOSE, PVC #9003 (1") | EA | 1.0000 |
| 26 |355821 | 130 | 250 | ELBOW 90 DEG. STR/ELL BR. 1" | EA | 1.0000 |
| 26 |358197 | 90 | 250 | HOSE SHIELD FLEX 1" TYPE 100-0316 | FT | 5.0000 |

HUNTER
 H460 ENGINE ASSEMBLY PARTS LIST
 NUMBER 10 460080D NONE
 DATE 11/21/88
 ENGINEERING DEPT

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|--------------------------------------|----|--------------|
| 27 |466670 | 10 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 4.0000 |
| 27 |467010 | 140 | 600 | P/H PHIL #8 X 7/8 S/S T/A | EA | 3.0000 |
| 26 |P4621 | 160 | 999 | NIPPLE, 1"X4" BRASS, H420 | EA | 1.0000 |
| |BB040015 | 20 | 5 | H460-COOLANT ANTI SIPON | EA | 1.0000 |
| 26 |311850 | 50 | 150 | VACUUM BREAK 1/8" 28.5'30'33.5'40' | EA | 1.0000 |
| 26 |311870 | 40 | 550 | SYPHON VENTED LOOP 1" X 180 DEG. | EA | 1.0000 |
| 10 |359004 | 20 | 250 | COUPLING, HALF, 1/8"S/S 4464K72 | EA | 1.0000 |
| 10 |706393 | 30 | 240 | STAINLESS, 1/8X3/4, "TRUE BAR"304 SS | FT | 0.6660 |
| 10 |707700 | 10 | 240 | TUBING, 1" 16GA 304 X 20'2" | FT | 1.3330 |
| 26 |353391 | 10 | 250 | HOSE CLAMP #16 | EA | 4.0000 |
| 26 |358197 | 20 | 250 | HOSE SHIELD FLEX 1" TYPE 100-0346 | FT | 1.5000 |
| 26 |358197 | 30 | 250 | HOSE SHIELD FLEX 1" TYPE 100-0346 | FT | 2.0000 |
| 27 |466350 | 70 | 600 | P/H PHIL #14 X 1" S/S T/A | EA | 2.0000 |
| |BB040025 | 30 | 5 | H460-COOLANT OVER FLOW | EA | 1.0000 |
| 26 |312000 | 10 | 388 | OVERFLO BOTTLE W/HOSE (ENGINE) | EA | 1.0000 |
| 27 |466350 | 20 | 600 | P/H PHIL #14 X 1" S/S T/A | EA | 2.0000 |
| |BB050001 | 40 | 5 | ENGINE FUEL SUPPLY SUB ASSEMBLY | EA | 1.0000 |
| |BB050005 | 10 | 5 | H460-ENGINE FUEL SYSTEM | EA | 1.0000 |
| 56 |253826 | 10 | 300 | PANEL, UP7-WF, 7 POSITION TANK DISPL | EA | 1.0000 |
| 27 |257714 | 30 | 300 | TERMINAL C1514-10R 450/LB BLU | EA | 2.0000 |
| 26 |318430 | 250 | 150 | NEOPREME RUBBER 60 1/4" | FT | 16.0000 |
| 26 |353157 | 70 | 250 | FUEL VENT #503-4 (WATER) | EA | 1.0000 |
| 26 |353355 | 90 | 250 | HOSE CLAMP #10 | EA | 4.0000 |
| 26 |353427 | 100 | 250 | HOSE CLAMP #24 | EA | 4.0000 |
| 26 |354260 | 140 | 999 | FITTING, 5/16" BARBX3/3" MPT BRASS | EA | 2.0000 |
| 26 |354633 | 210 | 200 | FUEL PLUG BRASS 1/4" | EA | 4.0000 |
| 26 |355317 | 130 | 250 | BARB, PIPE TO HOSE PVC #9001 (1/2" | EA | 1.0000 |
| 31 |356181 | 120 | 200 | DECK PLATE FUEL (DIESEL) GREEN | EA | 1.0000 |
| 26 |357101 | 160 | 270 | BRACKET, "J"HOOK, FUEL, H/DWN, H45 | EA | 3.0000 |
| 26 |357819 | 60 | 250 | HOSE 5/8 FUEL SAEJ1527A2 TYPE A | FT | 3.0000 |
| 26 |358251 | 80 | 250 | HOSE FUEL FILL 1 1/2" 375-1126 TY A | FT | 2.0000 |
| 27 |460210 | 20 | 600 | CABLE TIES 8" BLACK W/EYE | EA | 20.0000 |
| 27 |466670 | 50 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 20.0000 |
| 28 |656700 | 40 | 300 | WIRE, DUPLEX, UL BOAT CABLE 16/2 BL | FT | 32.0000 |
| 26 |P4616 | 240 | 999 | TANK, FUEL, 93GAL, H460 | EA | 1.0000 |
| |BB050015 | 20 | 5 | H460-FUEL FILTER MOUNTING | EA | 1.0000 |
| 26 |352512 | 50 | 999 | FILTER, RACOR 660R-RAC-02 | EA | 1.0000 |
| 26 |353319 | 10 | 250 | HOSE CLAMPS #6 NARROW BAND | EA | 10.0000 |
| 26 |354260 | 60 | 999 | FITTING, 5/16" BARBX3/3" MPT BRASS | EA | 2.0000 |
| 26 |355749 | 20 | 250 | ELBOW 90 DEGREE STR/ELL BR. 3/8" | EA | 2.0000 |
| 26 |357801 | 30 | 250 | HOSE, FUEL, 5/16" TYPE "A" | FT | 23.0000 |
| 26 |357801 | 40 | 250 | HOSE, FUEL, 5/16" TYPE "A" | FT | 18.0000 |
| 27 |461410 | 80 | 600 | F/H PHIL #10 X 1 1/4" TEAK WOOD W/S | EA | 3.0000 |
| 27 |466710 | 70 | 600 | P/H PHIL #14 X 1 1/4" S/S T/A | EA | 2.0000 |

HUNTER

H460 ENGINE ASSEMBLY PARTS LIST CONT

DATE: 11/21/98

DRAWN BY: NONE

CHECKED BY: 460058E

ENGINEERING DEPT

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|---------------------------------------|--------|--------------|
| |BB060001 | 50 | 5 | ENGINE EXHAUST SUB ASSEMBLY | EA | 1.0000 |
| |BB06005 | 10 | 5 | H460-ENGINE EXHAUST | EA | 1.0000 |
| 26 |353265 | 60 | 250 | CLAMP #DGS6 ALUM. 27P | EA | 3.0000 |
| 26 |353535 | 40 | 250 | HOSE CLAMP # 52 | EA | 8.0000 |
| 26 |356095 | 50 | 999 | MUFFLER, TO PRINT KH HUN2180 | H41 EA | 1.0000 |
| 26 |358503 | 20 | 250 | HOSE 3" CORRIGATED EXHAUST TYPE 20 FT | | 4.0000 |
| 26 |358503 | 30 | 250 | HOSE 3" CORRIGATED EXHAUST TYPE 20 FT | | 13.0000 |
| 10 |358845 | 10 | 150 | TUBE GLASS 3" X 1/4 S-500 | FT | 0.6500 |

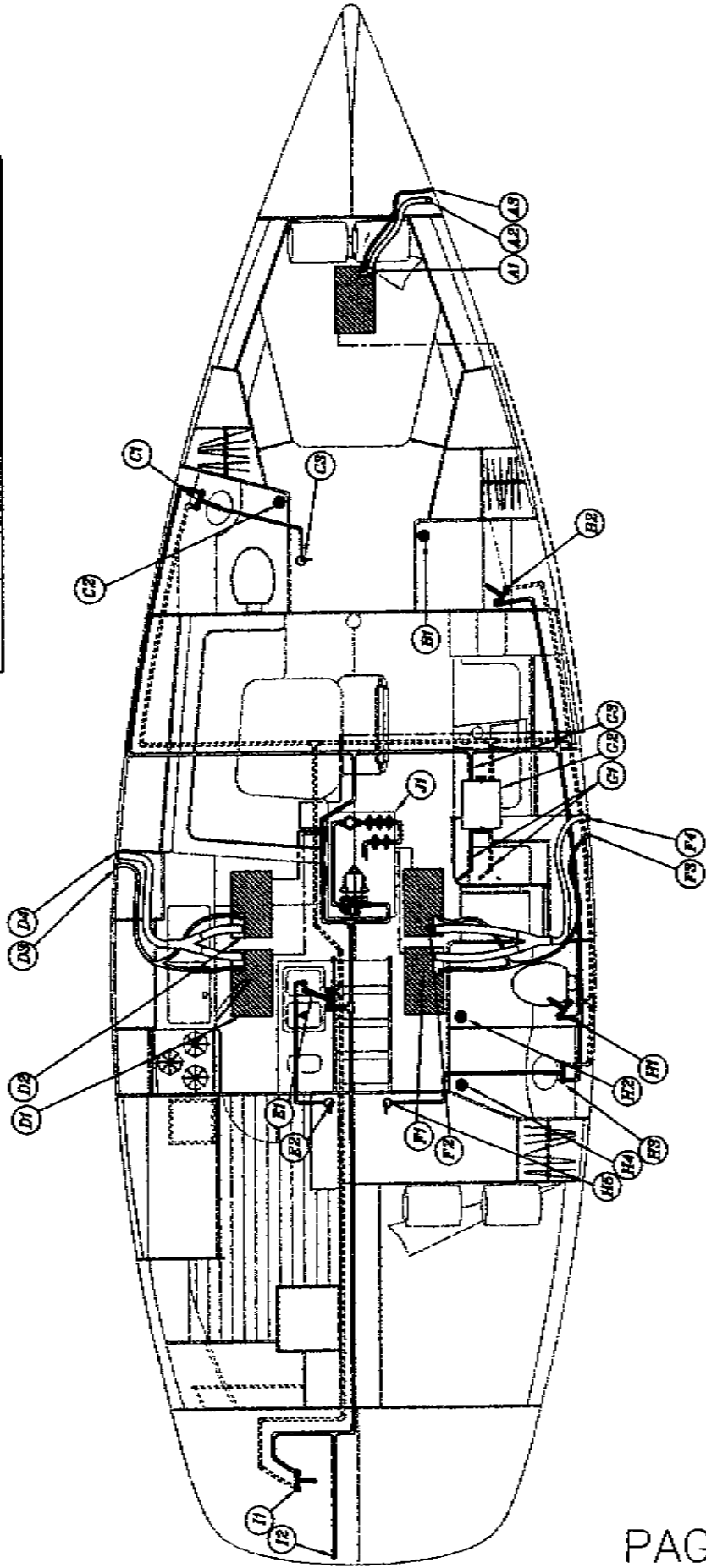
HUNTER
 H460 ENGINE ASSEMBLY PARTS LIST CONT
 PART NO. 4608036F
 NONE
 11/21/88
 ENGINEERING DEPT

FRESH WATER SYSTEM OPERATION:

- ① FILL TANK/S WITH FRESH WATER (SEE PAGE 60 FOR FILL LOCATIONS)
 - ② OPEN DESIRED MANIFOLD VALVE/S (SEE PAGE 57B-1 FOR MANIFOLD LOCATION)
 - ③ TURN HOUSE BATTERY SELECTOR SWITCH TO DESIRED HOUSE BATTERY "FLIP" MAIN PANEL BREAKERS @ BATTERY SWITCH TO THE "ON" POSITION (SEE PAGE 63A-8 FOR SWITCH LOCATION)
 - 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 EXCHANGER UNIT
 - Ⓑ BY SUPPLYING 110V.A.C. BY "DOCKSIDE SHORE POWER" OR GENERATOR POWER.
 - ⑦ TO HEAT BY "ENGINE" SEE PAGE 55 FOR ENGINE OPERATING INST.
- NOTE: WHEN COOLANT IS INSTALLED, BLEED AIR FROM HEAT EXCHANGER LINES TO WATER HEATER. CRANK ENGINE, OPEN BLEEDER VALVE (SEE PAGE 55A) 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
 - ⑨ TO HEAT BY "GENERATOR POWER"... SEE PAGE 63E-1 FOR GENERATOR OPER. INSTRUCTIONS THEN FOLLOW STEPS #8 B & C (THIS PAGE) UNDER "TO HEAT BY SHORE POWER".

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

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

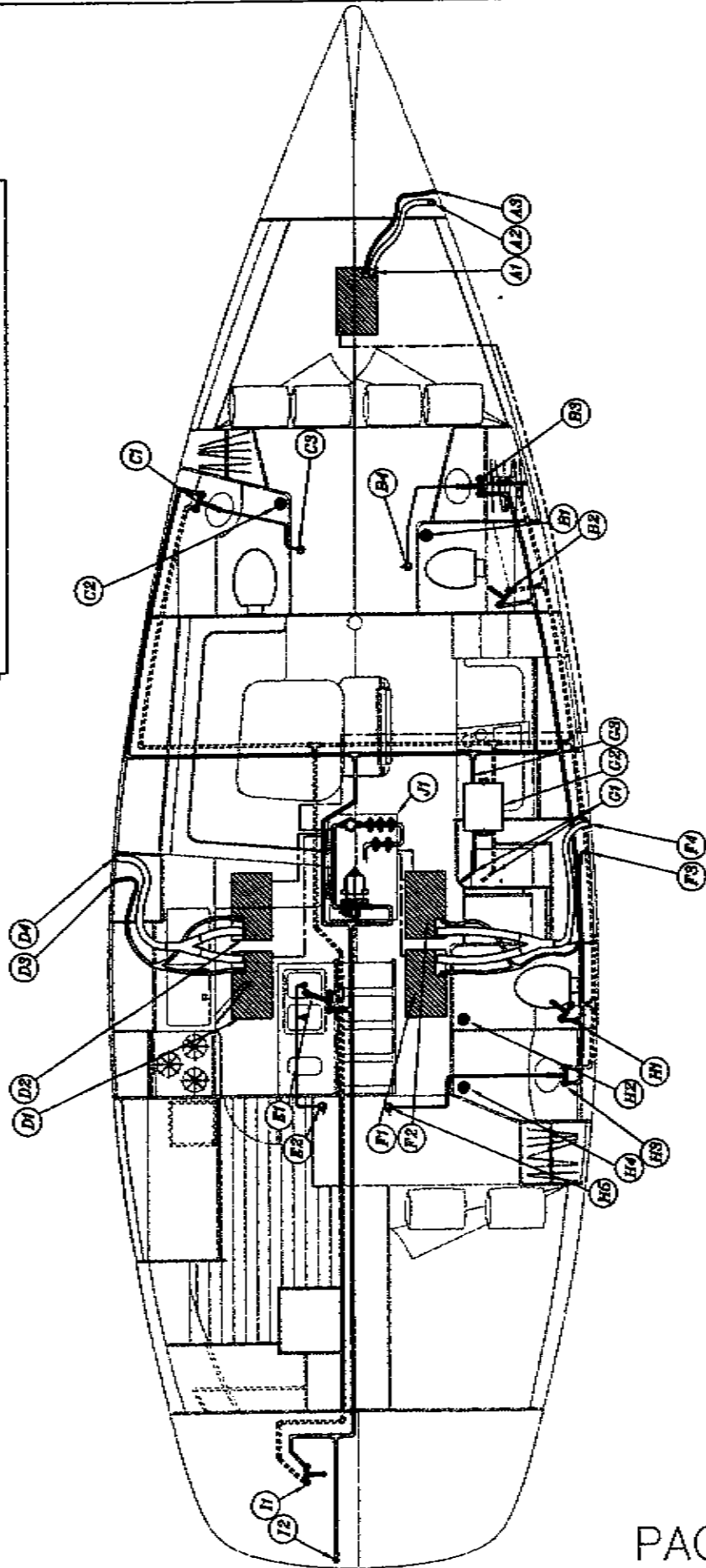


FRESH WATER SYSTEM LAYOUT LIST

| | | |
|---|----|--|
| FWD WATER TANK COMPONENTS | A1 | FWD WATER TANK (66 GALLONS/249 LITERS) |
| | A2 | TANK FILL LOCATION (DECK FITTING) |
| | A3 | TANK FILL VENT LOCATION (HULL FITTING) |
| FWD STBD. VANITY COMPONENTS | B1 | FWD STBD. (OPTIONAL) SHOWER DRAIN (SEE PG. 57B-6) |
| | B2 | FWD STBD. SHOWER FAUCET |
| FWD PORT HEAD COMPONENTS | C1 | FWD PT. VANITY FAUCET |
| | C2 | FWD PT. SOLE DRAIN (SEE PG. 57B-6) |
| | C3 | FWD PT. VANITY SINK DRAIN (SEACOCK FITTING) |
| PORT WATER TANKS COMPONENTS | D1 | PORT AFT WATER TANK (36 GALLONS/132 LITERS) |
| | D2 | PORT FWD WATER TANK (18 GALLONS/68 LITERS) |
| | D3 | PORT FWD AND PORT AFT WATER TANK FILL VENT (VENTED STANCHION/DECK HDWR.) |
| | D4 | PORT FWD AND PORT AFT WATER TANK FILL LOCATIONS (DECK FITTING) |
| | | ** (ONE VENT LOCATION FOR BOTH TANKS) |
| | | ** (ONE FILL LOCATION FOR BOTH TANKS) |
| GALLEY SINK COMPONENTS | E1 | GALLEY FAUCET |
| | E2 | GALLEY SINK DRAIN (SEACOCK FITTING) |
| STBD. WATER TANKS COMPONENTS | F1 | AFT STBD. WATER TANK (21 GALLONS/79 LITERS) |
| | F2 | FWD STBD. WATER TANK (45 GALLONS/170 LITERS) |
| | F3 | STBD. FWD AND STBD. AFT WATER TANK FILL VENT (VENTED STANCHION/DECK HDWR.) |
| | F4 | STBD. FWD AND STBD. AFT WATER TANK FILL LOCATION (DECK FITTING) |
| | | ** (ONE VENT LOCATION FOR BOTH TANKS) |
| | | ** (ONE FILL LOCATION FOR BOTH TANKS) |
| WATER HEATER COMPONENTS | G1 | WATER HEATER HEAT EXCHANGER LINES TO ENGINE |
| | G2 | WATER HEATER (11 GALLONS/41.7 LITERS) |
| | G3 | IN LINE CHECK VALVE (PREVENTS HOT WATER BACK FILL) |
| AFT HEAD COMPONENTS | H1 | AFT HEAD SHOWER FAUCET |
| | H2 | AFT HEAD SHOWER DRAIN (SEE PG. 57B-6) |
| | H3 | AFT HEAD VANITY FAUCET |
| | H4 | AFT VANITY SHOWER DRAIN (SEE PG. 57B-6) |
| | H5 | AFT HEAD VANITY SINK DRAIN (SEACOCK FITTING) |
| TRANSOM SHOWER/ SHORE WATER COMPONENTS | I1 | TRANSOM SHOWER FAUCET |
| | I2 | SHORE WATER INLET FITTING |
| MANIFOLD COMPARTMENT COMPONENTS | J1 | SEE PAGE 57B-5 FOR THE WATER MANIFOLD COMPARTMENT LAYOUT |

HUNTER
 1480 FRESH WATER SYSTEM LAYOUT LIST (700 CUB.)
 1808057B-2 NONE 11/21/98
 ENGINEERING DEPT

HOT WATER QUEST LINES 1/2" (12.7mm)
 COLD WATER QUEST LINES 1/2" (12.7mm)
 FRESH WATER FEED LINES TO MANIFOLD



FRESH WATER SYSTEM LAYOUT LIST

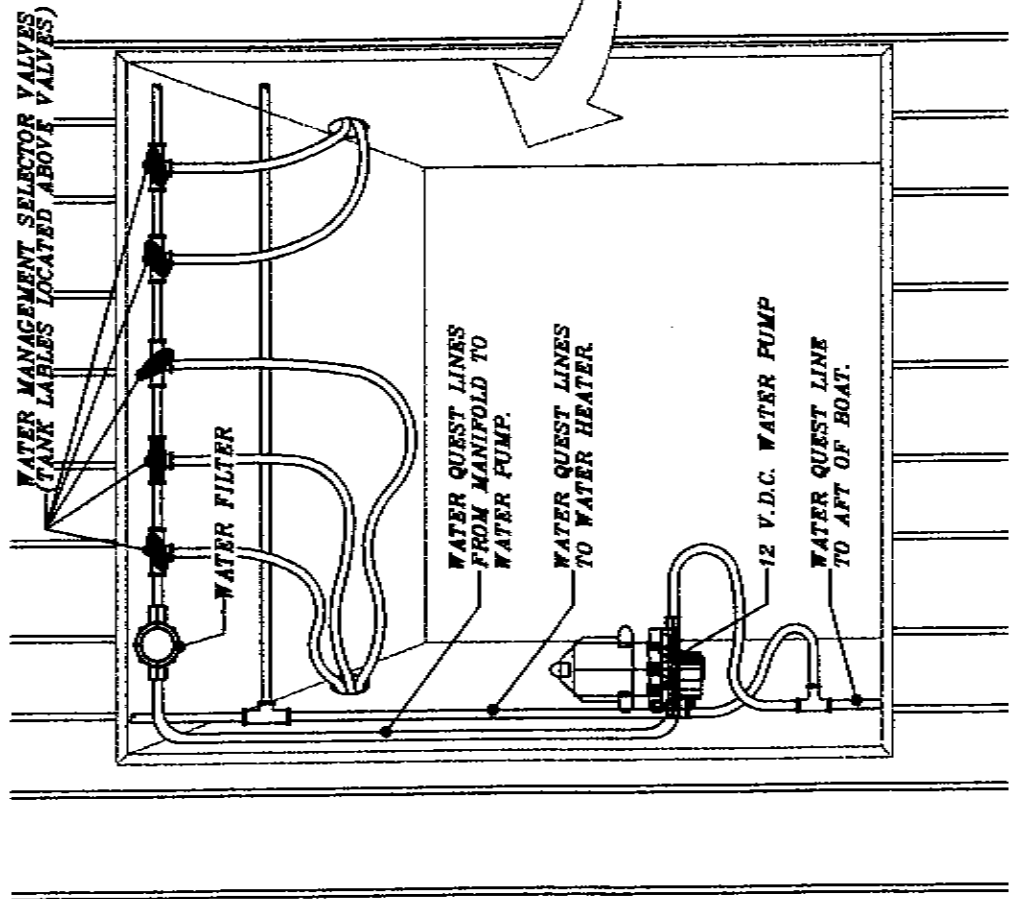
| | |
|---|--|
| FWD WATER TANK COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">A1</div> FWD WATER TANK (68 GALLONS/249 LITERS) <div style="border: 1px solid black; padding: 2px; display: inline-block;">A2</div> TANK FILL LOCATION (DECK FITTING) <div style="border: 1px solid black; padding: 2px; display: inline-block;">A3</div> TANK FILL VENT LOCATION (HULL FITTING) |
| FWD STBD. VANITY COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">B1</div> FWD STBD. SHOWER DRAIN (SEE PG. 57B-6) <div style="border: 1px solid black; padding: 2px; display: inline-block;">B2</div> FWD STBD. SHOWER FAUCET <div style="border: 1px solid black; padding: 2px; display: inline-block;">B3</div> FWD STBD. VANITY FAUCET (OPT.) <div style="border: 1px solid black; padding: 2px; display: inline-block;">B4</div> FWD STBD. VANITY SINK DRAIN (SEACOCK FITTING) |
| FWD PORT HEAD COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">C1</div> FWD PT. VANITY/SHOWER FAUCET <div style="border: 1px solid black; padding: 2px; display: inline-block;">C2</div> FWD PT. SHOWER DRAIN (SEE PG. 57B-6) <div style="border: 1px solid black; padding: 2px; display: inline-block;">C3</div> FWD PT. VANITY SINK DRAIN (SEACOCK FITTING) |
| PORT WATER TANKS COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">D1</div> PORT AFT WATER TANK (36 GALLONS/132 LITERS) <div style="border: 1px solid black; padding: 2px; display: inline-block;">D2</div> PORT FWD WATER TANK (18 GALLONS/68 LITERS) <div style="border: 1px solid black; padding: 2px; display: inline-block;">D3</div> PORT FWD AND PORT AFT WATER TANK FILL VENT (VENTED STANCHION/DECK HDWR.) <div style="border: 1px solid black; padding: 2px; display: inline-block;">D4</div> PORT FWD AND PORT AFT WATER TANK FILL LOCATIONS (DECK FITTING) *(ONE VENT LOCATION FOR BOTH TANKS) *(ONE FILL LOCATION FOR BOTH TANKS) |
| GALLEY SINK COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">E1</div> GALLEY FAUCET <div style="border: 1px solid black; padding: 2px; display: inline-block;">E2</div> GALLEY SINK DRAIN (SEACOCK FITTING) |
| STBD. WATER TANKS COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">F1</div> AFT STBD. WATER TANK (21 GALLONS/79 LITERS) <div style="border: 1px solid black; padding: 2px; display: inline-block;">F2</div> FWD STBD. WATER TANK (45 GALLONS/170 LITERS) <div style="border: 1px solid black; padding: 2px; display: inline-block;">F3</div> STBD. FWD AND STBD. AFT WATER TANK FILL VENT (VENTED STANCHION/DECK HDWR.) <div style="border: 1px solid black; padding: 2px; display: inline-block;">F4</div> STBD. FWD AND STBD. AFT WATER TANK FILL LOCATION (DECK FITTING) *(ONE VENT LOCATION FOR BOTH TANKS) *(ONE FILL LOCATION FOR BOTH TANKS) |
| WATER HEATER COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">G1</div> WATER HEATER HEAT EXCHANGER LINES TO ENGINE <div style="border: 1px solid black; padding: 2px; display: inline-block;">G2</div> WATER HEATER (11 GALLONS/41.7 LITERS) <div style="border: 1px solid black; padding: 2px; display: inline-block;">G3</div> IN LINE CHECK VALVE (PREVENTS HOT WATER BACK FILL) |
| AFT HEAD COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">H1</div> AFT HEAD SHOWER FAUCET <div style="border: 1px solid black; padding: 2px; display: inline-block;">H2</div> AFT HEAD SHOWER DRAIN (SEE PG. 57B-6) <div style="border: 1px solid black; padding: 2px; display: inline-block;">H3</div> AFT HEAD VANITY FAUCET <div style="border: 1px solid black; padding: 2px; display: inline-block;">H4</div> AFT VANITY SHOWER DRAIN (SEE PG. 57B-6) <div style="border: 1px solid black; padding: 2px; display: inline-block;">H5</div> AFT HEAD VANITY SINK DRAIN (SEACOCK FITTING) |
| TRANSOM SHOWER/ SHORE WATER COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">I1</div> TRANSOM SHOWER FAUCET <div style="border: 1px solid black; padding: 2px; display: inline-block;">I2</div> SHORE WATER INLET FITTING |
| MANIFOLD COMPARTMENT COMPONENTS | <div style="border: 1px solid black; padding: 2px; display: inline-block;">J1</div> SEE PAGE 57B-5 FOR THE WATER MANIFOLD COMPARTMENT LAYOUT |

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HARD FRESH WATER SYSTEM LAYOUT LIST (ROUND CAB)

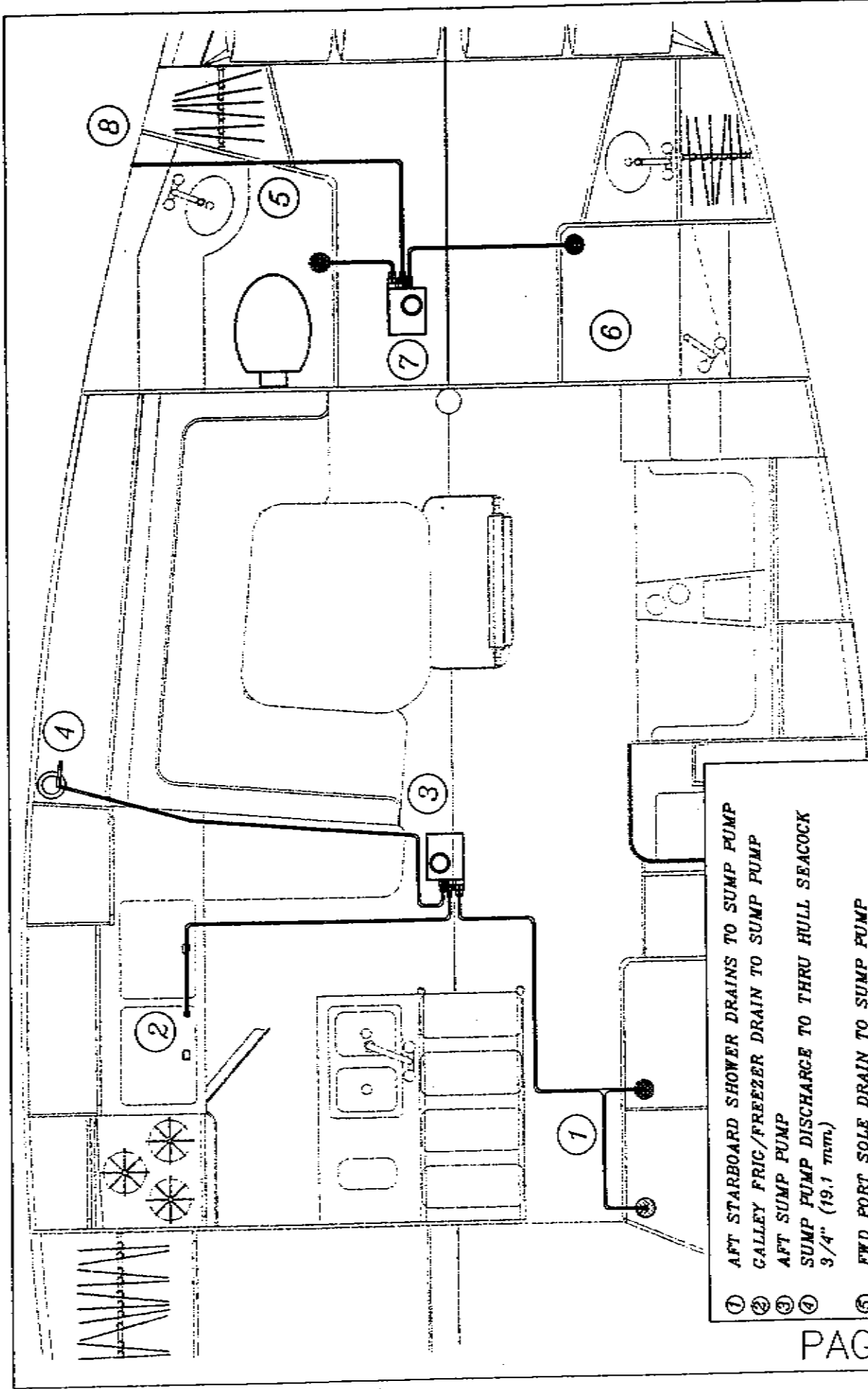
NO. 560057B-A NONE 11/21/96

ENGINEERING DEPT



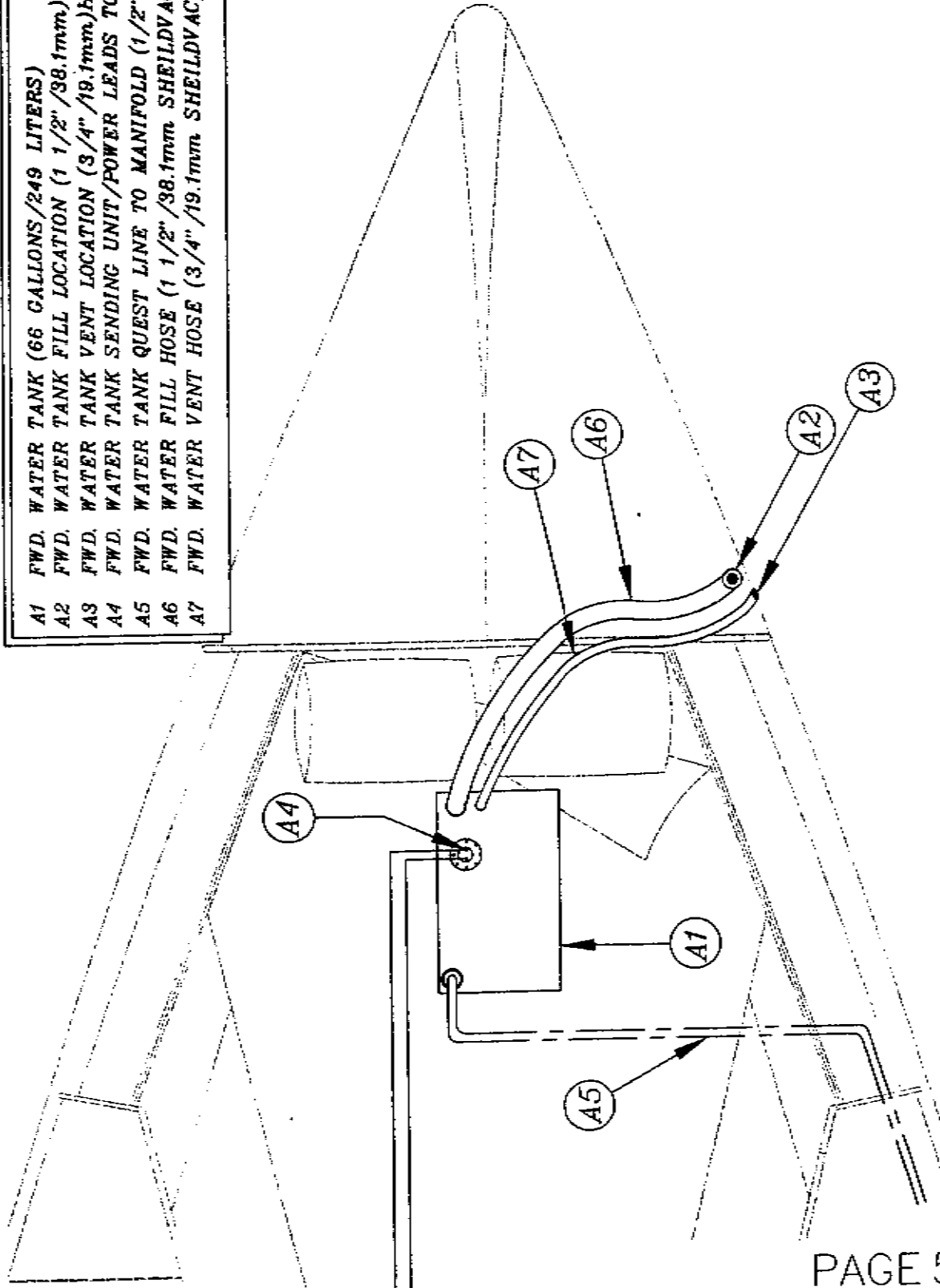
FWD
STBD

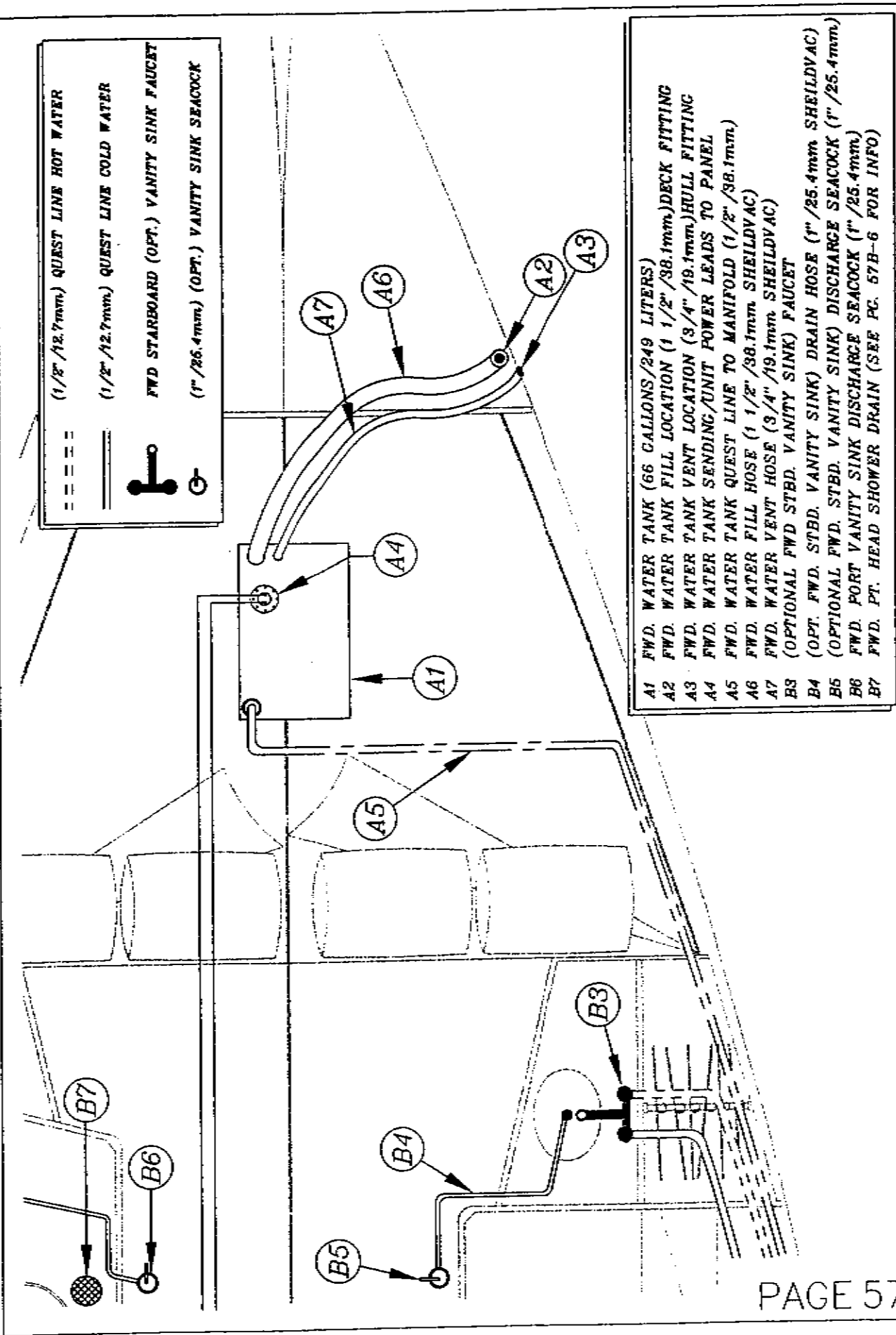
MANIFOLD COMPARTMENT LOCATED FORWARD OF COMPANIONWAY LADDER.



- ① AFT STARBOARD SHOWER DRAINS TO SUMP PUMP
 - ② GALLEY FRIG/FREEZER DRAIN TO SUMP PUMP
 - ③ AFT SUMP PUMP
 - ④ SUMP PUMP DISCHARGE TO THRU HULL SEACOCK
3/4" (19.1 mm)
 - ⑤ FWD PORT SOLE DRAIN TO SUMP PUMP
 - ⑥ FWD STARBOARD SHOWER DRAIN TO SUMP PUMP
 - ⑦ FWD SUMP PUMP
 - ⑧ SUMP PUMP DISCHARGE TO THRU HULL
3/4" (19.1 mm)
- SEE PAGE 59D FOR INFORMATION

- A1 FWD. WATER TANK (66 GALLONS/249 LITERS)
- A2 FWD. WATER TANK FILL LOCATION (1 1/2" /38.1mm) DECK FITTING
- A3 FWD. WATER TANK VENT LOCATION (3/4" /19.1mm) HULL FITTING
- A4 FWD. WATER TANK SENDING UNIT/POWER LEADS TO PANEL
- A5 FWD. WATER TANK QUEST LINE TO MANIFOLD (1/2" /12.7mm)
- A6 FWD. WATER FILL HOSE (1 1/2" /38.1mm SHEILDVAC)
- A7 FWD. WATER VENT HOSE (3/4" /19.1mm SHEILDVAC)

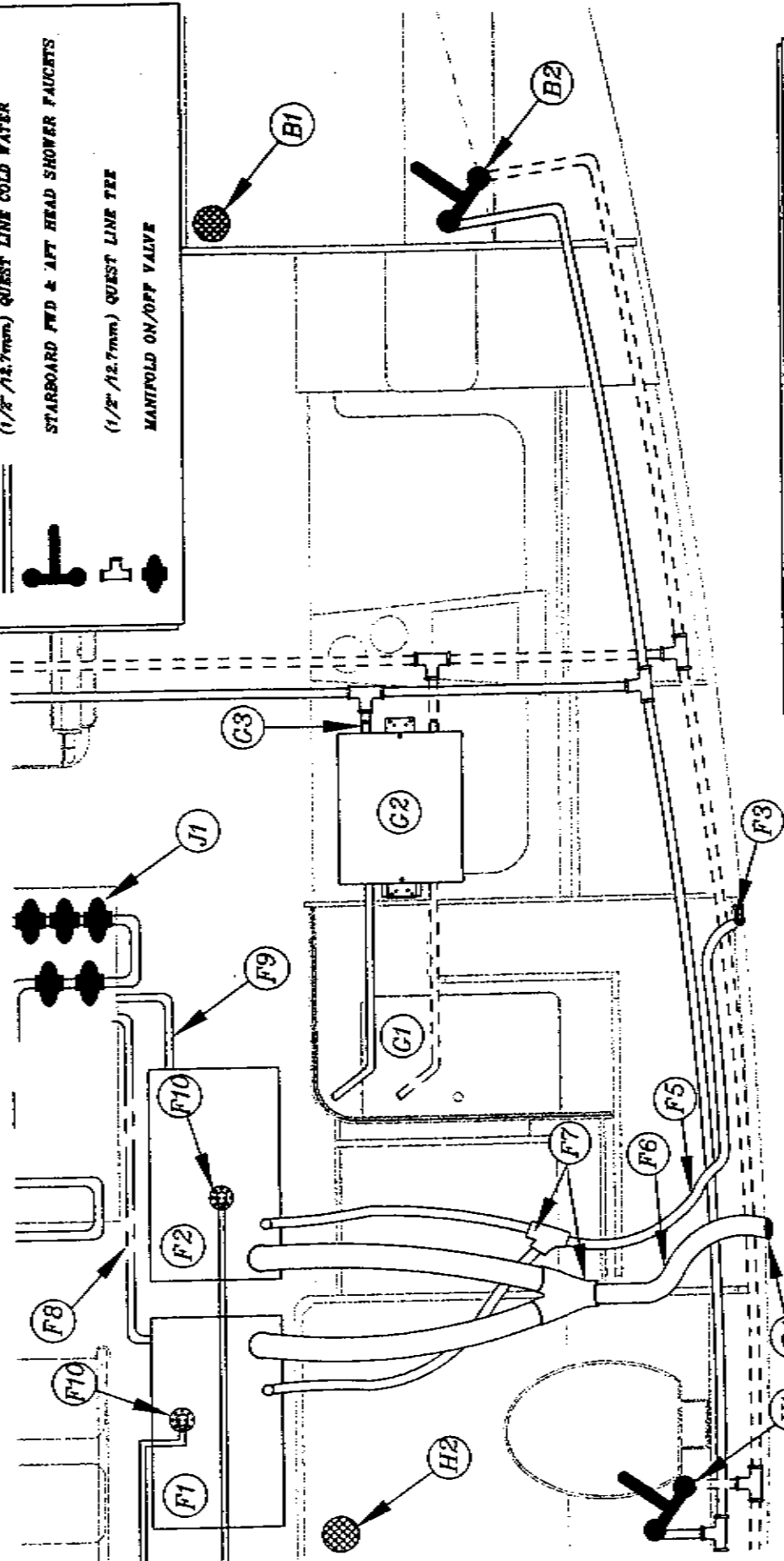




- - - - - (1/2" / 12.7mm) QUEST LINE HOT WATER
 _____ (1/2" / 12.7mm) QUEST LINE COLD WATER
 [Faucet symbol] FWD STARBOARD (OPT.) VANITY SINK FAUCET
 [Seacock symbol] (1" / 25.4mm) (OPT.) VANITY SINK SEACOCK

A1 FWD. WATER TANK (66 GALLONS/249 LITERS)
 A2 FWD. WATER TANK FILL LOCATION (1 1/2" / 38.1mm) DECK FITTING
 A3 FWD. WATER TANK VENT LOCATION (3/4" / 19.1mm) HULL FITTING
 A4 FWD. WATER TANK SENDING/UNIT POWER LEADS TO PANEL
 A5 FWD. WATER TANK QUEST LINE TO MANIFOLD (1/2" / 38.1mm)
 A6 FWD. WATER FILL HOSE (1 1/2" / 38.1mm) SHEILDVAC)
 A7 FWD. WATER VENT HOSE (3/4" / 19.1mm) SHEILDVAC)
 B3 (OPTIONAL) FWD STBD. VANITY SINK) FAUCET
 B4 (OPT. FWD. STBD. VANITY SINK) DRAIN HOSE (1" / 25.4mm) SHEILDVAC)
 B5 (OPTIONAL) FWD. STBD. VANITY SINK) DISCHARGE SEACOCK (1" / 25.4mm)
 B6 FWD. PORT VANITY SINK DISCHARGE SEACOCK (1" / 25.4mm)
 B7 FWD. PT. HEAD SHOWER DRAIN (SEE PG. 57B-6 FOR INFO)

(1/2" / 12.7mm) QUEST LINE HOT WATER
 (1/2" / 12.7mm) H2O SUPPLY LINE
 (1/2" / 12.7mm) QUEST LINE COLD WATER
 STARBOARD FWD & AFT HEAD SHOWER FAUCETS
 (1/2" / 12.7mm) QUEST LINE TEE
 MANIFOLD ON/OFF VALVE



- F6 STBD. WATER TANK(S) VENT ROSE (3/4" / 19.1mm. SHEILDVAC HOSE)
- F8 STBD. WATER TANK(S) FILL ROSE (1 1/2" / 38.1mm SHEILDVAC HOSE)
- F7 TANK FILL/VENT "Y"
- F8 STBD. APT WATER TANK QUEST LINE TO MANIFOLD (1/2" / 38.1mm)
- F9 STBD. FWD. WATER TANK QUEST LINE TO MANIFOLD (1/2" / 38.1mm)
- F10 STBD. FWD/AFT. WATER TANK SENDING UNITS
- H1 AFT STBD. HEAD SHOWER FAUCET
- H2 AFT STBD. HEAD SHOWER DRAIN (SEE PG 57B-6 FOR INFO)

- B1 FWD. STBD. VANITY SHOWER FAUCET
- B2 FWD. STBD. VANITY SHOWER FAUCET
- J1 WATER MANIFOLD ACCESS COMPARTMENT (SEE PG 57B-6 FOR INFO)
- C1 WATER HEATER HEAT EXCHANGE LINES TO ENGINE
- C2 WATER HEATER (11 GALLONS/41.7 LITERS)
- C3 IN LINE CHECK VALVE (PREVENTS HOT WATER BACK FILL)
- F1 STBD. APT WATER TANK (36 GALLONS/132 LITERS)
- F2 STBD. FWD. WATER TANK (18 GALLONS/68 LITERS)
- F3 STBD. WATER TANKS VENT LOCATION (VENTED STANCHION DECK HARDWARE) (3/4" / 19.1mm) NOTE: ONE LOCATION VENTS BOTH TANKS
- F4 STBD. WATER TANKS FILL LOCATION (1 1/2" / 38.1mm) DECK FITTING NOTE: ONE LOCATION FILLS BOTH TANKS

HUNTER

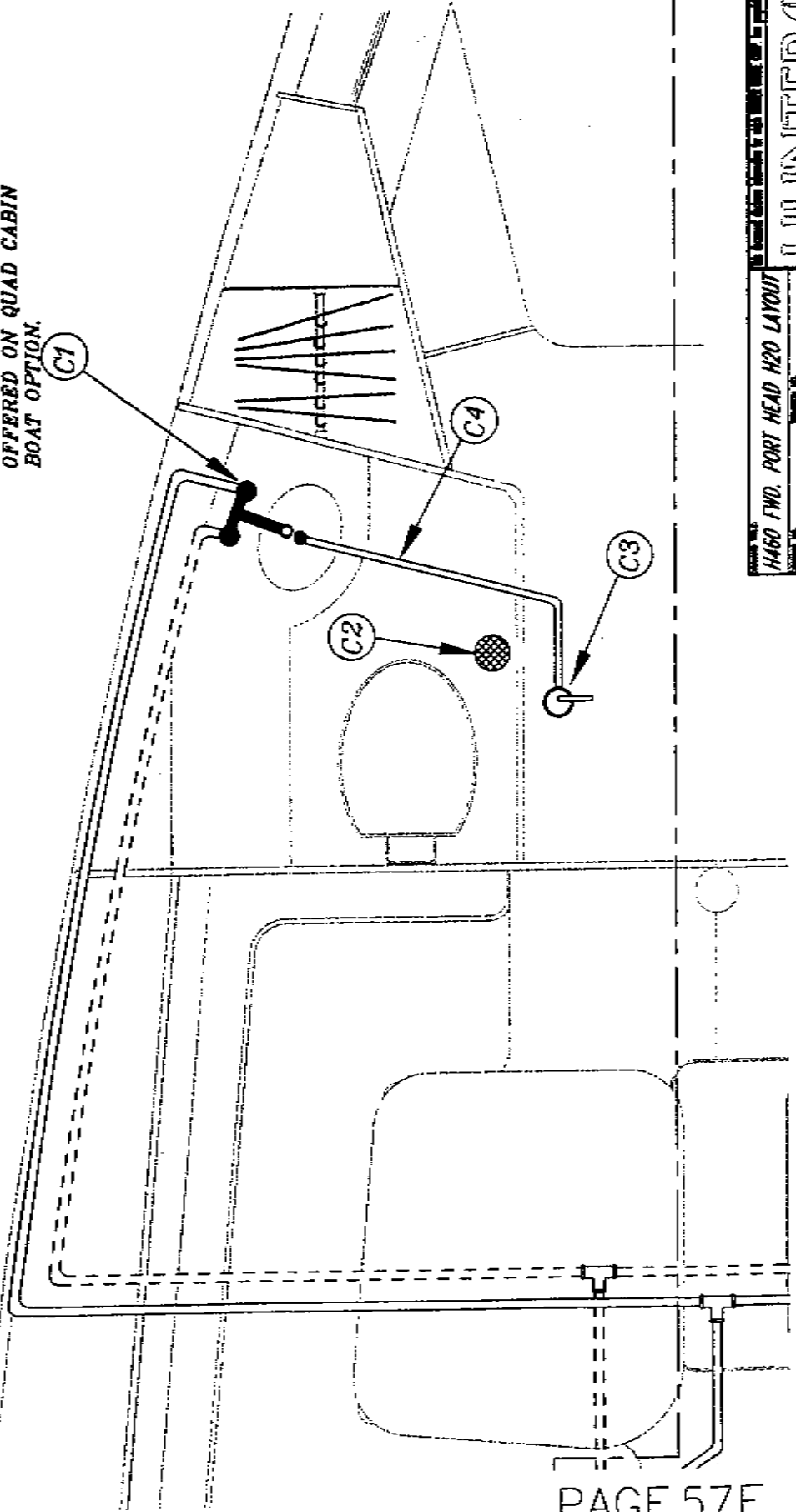
H460 FWD STARBOARD H2O LAYOUT

DRAWING NO. 4600057D
 DATE 1/1/80
 ENGINEERING DEPT.

- - - - - 1/2" /12.7mm) QUEST LINE HOT WATER
 = = = = = (1/2" /12.7mm.) QUEST LINE COLD WATER
 [] (1/2" /12.7mm) QUEST LINE TEE
 [] (1" /25.4) FWD PORT HEAD VANITY SEACOCK
 FWD PORT HEAD SHOWER & VANITY FAUCETS

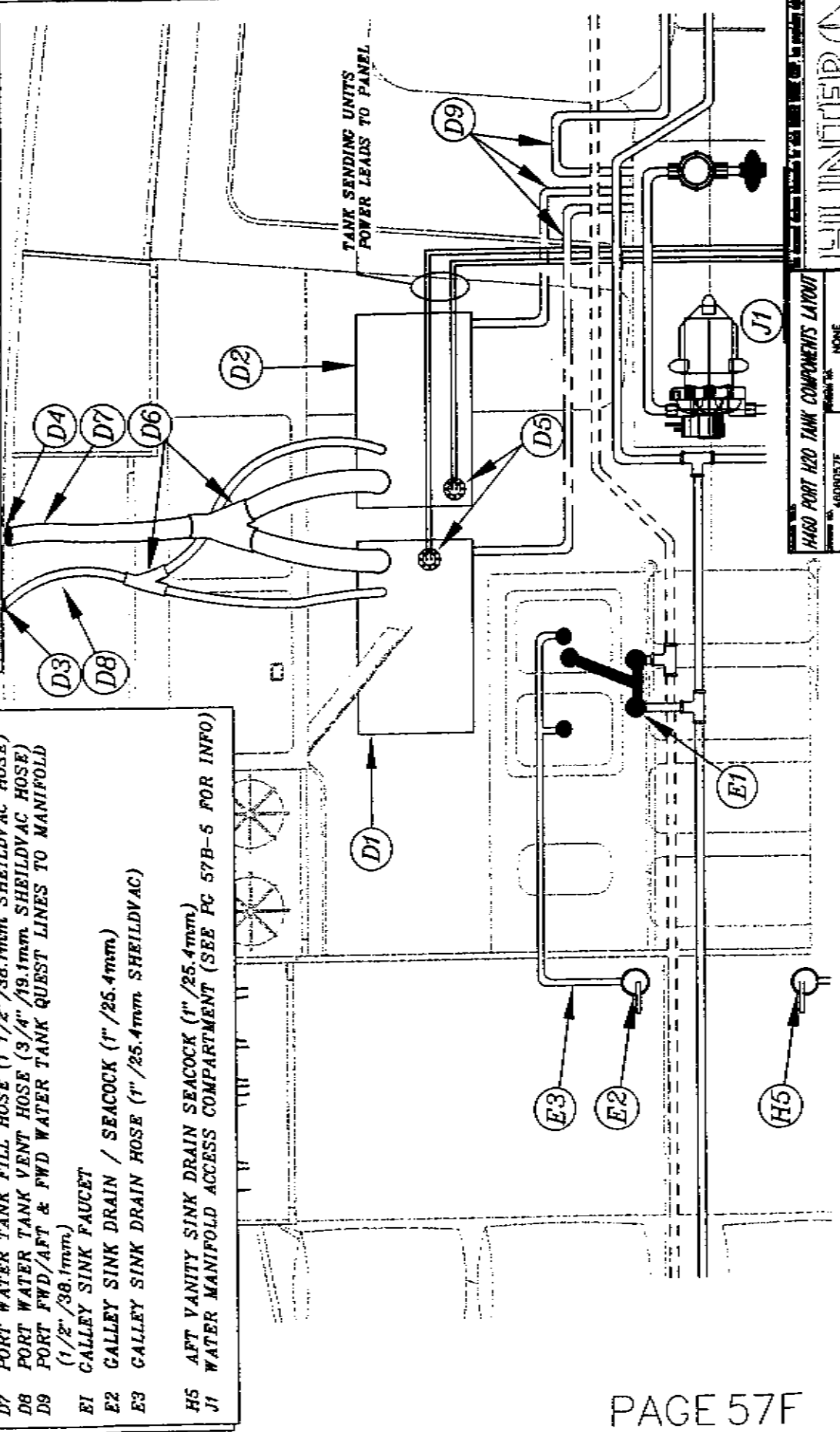
C1 FWD. PORT HEAD VANITY/SHOWER FAUCET (SHOWER OPTL.)
 C2 FWD. PORT HEAD SHOWER DRAIN (SEE PC 57B-6 FOR INFO)
 C3 FWD. PORT HEAD VANITY SINK DISCHARGE SEACOCK
 (1" /25.4mm.)
 C4 FWD. PORT HEAD VANITY SINK DRAIN HOSE (1" /25.4mm.
 SHEILDVAC)

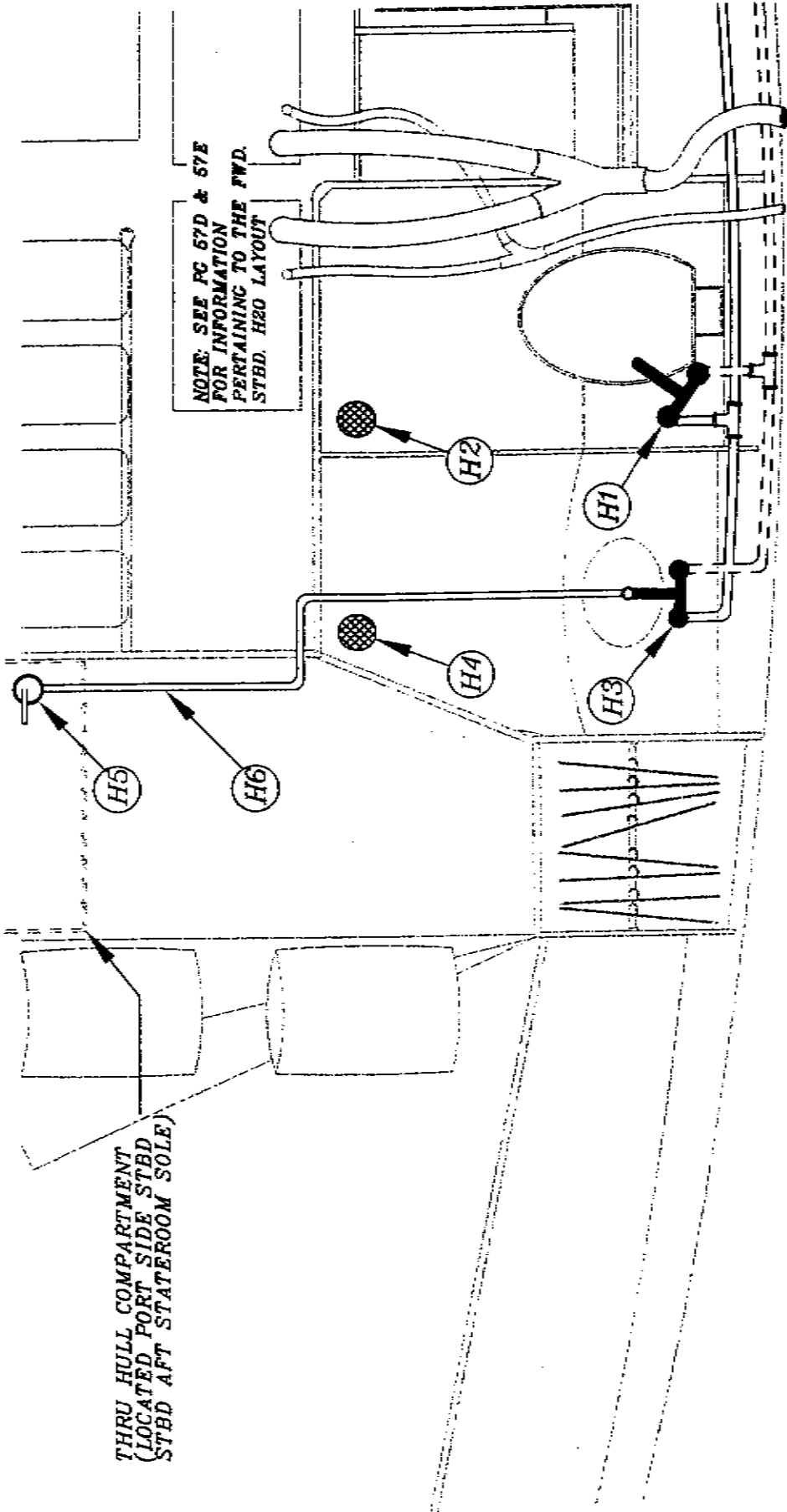
VANITY/SHOWER FAUCET
 OFFERED ON QUAD CABIN
 BOAT OPTION.



- D1 PORT AFT WATER TANK (96 GALLONS/132 LITERS)
- D2 PORT FWD. WATER TANK (18 GALLONS/68 LITERS)
- D3 PORT WATER TANKS VENT LOCATION (VENTED STANCHION DECK HARDWARE) (3/4" /19.1mm) NOTE: ONE LOCATION VENTS BOTH TANKS.
- D4 PORT WATER TANKS FILL LOCATION (1 1/2" /38.1mm) DECK FITTING NOTE: ONE LOCATION FILLS BOTH TANKS.
- D5 PORT FWD./AFT WATER TANKS SENDING UNITS
- D6 TANK FILL/VENT "Y"
- D7 PORT WATER TANK FILL HOSE (1 1/2" /38.1mm SHEILDVAC HOSE)
- D8 PORT WATER TANK VENT HOSE (3/4" /19.1mm SHEILDVAC HOSE)
- D9 PORT FWD./AFT & FWD WATER TANK QUEST LINES TO MANIFOLD (1/2" /38.1mm)
- E1 GALLEY SINK FAUCET
- E2 GALLEY SINK DRAIN / SEACOCK (1" /25.4mm)
- E3 GALLEY SINK DRAIN HOSE (1" /25.4mm SHEILDVAC)
- H5 AFT VANITY SINK DRAIN SEACOCK (1" /25.4mm)
- J1 WATER MANIFOLD ACCESS COMPARTMENT (SEE PG 57B-5 FOR INFO)

(1/2" /12.7mm) QUEST LINE HOT WATER
 (1/2" /12.7mm) H2O SUPPLY LINE
 (1/2" /12.7mm) QUEST LINE COLD WATER
 (1" /25.4mm) AFT HEAD VANITY/GALLEY SINK SEACOCKS
 GALLEY SINK FAUCET
 (1/2" /12.7mm) QUEST LINE TEE





NOTE: SEE PG 57D & 57E FOR INFORMATION PERTAINING TO THE FWD. STBD. H2O LAYOUT

THRU HULL COMPARTMENT (LOCATED PORT SIDE STBD STBD AFT STATEROOM SOLE)

- H1 AFT HEAD SHOWER FAUCET
- H2 AFT HEAD SHOWER DRAIN (SEE PG 57-B FOR INFO)
- H3 AFT HEAD VANITY SINK FAUCET
- H4 AFT VANITY SOLE DRAIN (SEE PG 57-B FOR INFO)
- H5 AFT HEAD VANITY SINK DRAIN SEACOCK (1" / 25.4mm)
- H6 AFT HEAD VANITY SINK DRAIN HOSE (1" / 25.4mm SHEILDVAC)

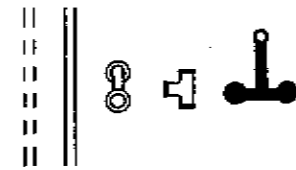
- ===== (1/2" 12.7mm) QUEST LINE HOT WATER
- ==== (1/2" 12.7mm) QUEST LINE COLD WATER
- ⊕ (1" / 25.4mm) AFT VANITY SINK SEACOCK
- ⊖ AFT HEAD VANITY SINK/SHOWER FAUCETS

H460 AFT HEAD H2O LAYOUT

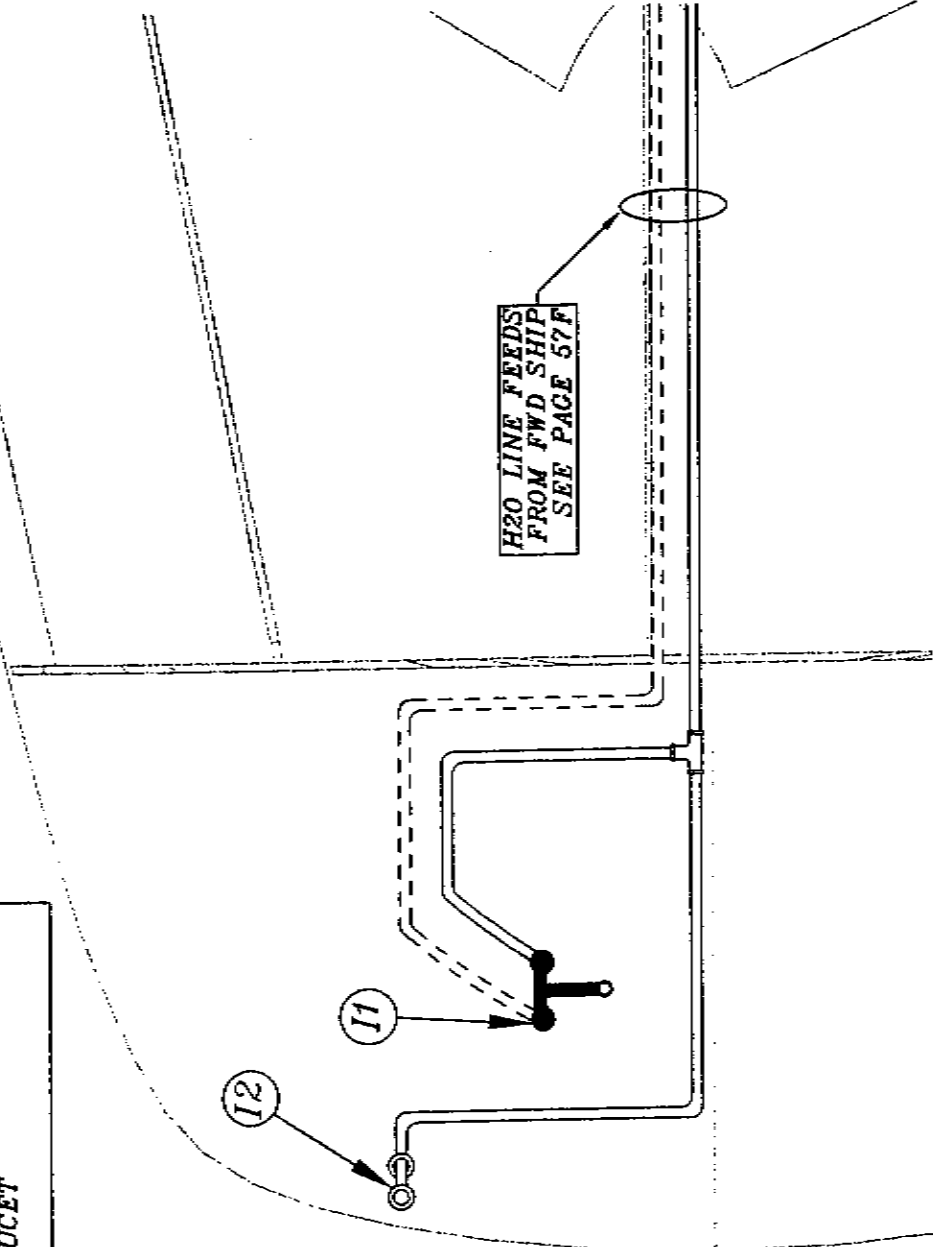
45060070 NONE 1/12/88
ENGINEERING DEPT.

HUNTER

(1/2" / 12.7mm) QUEST LINE HOT WATER
 (1/2" / 12.7mm) QUEST LINE COLD WATER
 FRESH "SHORE" WATER INLET
 (1/2" / 12.7mm) QUEST LINE TEE
 TRANSOM SHOWER FAUCET



11 TRANSOM SHOWER FAUCET
 12 TRANSOM FRESH WATER INLET



H2O LINE FEEDS
 FROM FWD SHIP
 SEE PAGE 57F

400 FRESH WATER TRANSOM SHOWER/WATER INLET LAYOUT
 4008057H NONE 1/11/00
 ENGINEERING DEPT.
HUNTER

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|---------------------------------------|----|--------------|
| | ...BD010001 | 390 | 5 | PLUMBING ASSEMBLY | EA | 1.0000 |
| |BD020001 | 10 | 5 | FRESH WATER PLUMBING SUB ASSEMBLY | EA | 1.0000 |
| |BD020005 | 10 | 5 | H460-FWD WATER TANK ASSEMBLY | EA | 1.0000 |
| 25 |102030 | 150 | 105 | FOAM FILLER CF124 (750 ML) | EA | 2.5000 |
| 27 |257570 | 180 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 2.0000 |
| 26 |286100 | 210 | 210 | LABEL PHENOLIC "FWD WATER TANK" | EA | 1.0000 |
| 26 |353157 | 30 | 250 | FUEL VENT #503-4 (WATER) | EA | 1.0000 |
| 26 |353355 | 40 | 250 | HOSE CLAMP #10 | EA | 3.0000 |
| 26 |353427 | 50 | 250 | HOSE CLAMP #24 | EA | 4.0000 |
| 26 |354867 | 160 | 250 | ELBOW PVC 1 1/2" SLIP X MPT | EA | 1.0000 |
| 26 |355425 | 60 | 250 | BARB 1/2" MPT X 3/4" HB SHIELDS WHITE | EA | 1.0000 |
| 26 |355479 | 200 | 250 | ADAPTER 1 1/2" X 1 1/2" #341513 | EA | 1.0000 |
| 26 |355767 | 190 | 250 | ELBOW, ST PLSTC 3/4" | EA | 1.0000 |
| 31 |356199 | 70 | 200 | DECK PLATE WATER BLUE | EA | 1.0000 |
| 26 |357981 | 80 | 250 | HOSE SHIELDVAC 1 1/2" (145-1120) | FT | 7.0000 |
| 26 |358017 | 90 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 8.0000 |
| 26 |358089 | 100 | 250 | HOSE CUFFS 3/4" (142-0340) | EA | 2.0000 |
| 26 |358143 | 110 | 250 | HOSE CUFFS 1 1/2" (142-1120) | EA | 2.0000 |
| 26 |359025 | 120 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 2.0000 |
| 26 |359043 | 130 | 250 | TUBING 3/8 I.D. X 1/2" O.D. *COLD WA | FT | 25.0000 |
| 28 |460050 | 290 | 600 | BANDING BUCKLE PVC | EA | 8.0000 |
| 28 |460090 | 280 | 600 | BANDING MATERIAL PVC | FT | 4.0000 |
| 27 |465770 | 20 | 600 | O/H PHIL #10 X 3/4" S/S T/A | EA | 3.0000 |
| 28 |656700 | 140 | 300 | WIRE, DUPLEX, UL BOAT CABLE 16/2 BL | FT | 28.0000 |
| 24 |P4617 | 230 | 999 | TANK, WATER, STBD, 66G, 103066, H460 | EA | 1.0000 |
| |BD020025 | 40 | 5 | H460-FWD VANITY PLUMBING | EA | 1.0000 |
| 43 |351375 | 10 | 250 | FAUCET - VANITY - W/O SHOWER #10-30 | EA | 1.0000 |
| 26 |355407 | 70 | 250 | BARB, PIPE TO HOSE, PVC #8005 (1.5") | EA | 1.0000 |
| 26 |359025 | 20 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 2.0000 |
| 26 |359043 | 30 | 250 | TUBING 3/8 I.D. X 1/2" O.D. *COLD WA | FT | 2.0000 |
| 26 |359044 | 50 | 250 | TUBING, QUEST, RED STRIPE, *HOT* | FT | 2.0000 |
| 26 |359115 | 40 | 250 | ELBOW STR. 1/2" MPT X 1/2" PPT HOSE | EA | 2.0000 |
| |BD020045 | 50 | 5 | H460-PORT WATER TANK | EA | 1.0000 |
| 26 |353355 | 30 | 250 | HOSE CLAMP #10 | EA | 4.0000 |
| 26 |353427 | 40 | 250 | HOSE CLAMP #24 | EA | 8.0000 |
| 26 |354867 | 580 | 250 | ELBOW PVC 1 1/2" SLIP X MPT | EA | 1.0000 |
| 26 |355335 | 610 | 250 | BARB, PIPE TO HOSE PVC #3002 (3/4") | EA | 1.0000 |
| 26 |355461 | 570 | 250 | FITTING, 1.5" *Y" TEE SLIPXSLIP PVC | EA | 1.0000 |
| 26 |355479 | 550 | 250 | ADAPTER 1 1/2" X 1 1/2" #341513 | EA | 4.0000 |
| 26 |355767 | 590 | 250 | ELBOW, ST PLSTC 3/4" | EA | 1.0000 |
| 31 |356199 | 60 | 200 | DECK PLATE WATER BLUE | EA | 1.0000 |
| 26 |357981 | 80 | 250 | HOSE SHIELDVAC 1 1/2" (145-1120) | FT | 4.0000 |
| 26 |357981 | 85 | 250 | HOSE SHIELDVAC 1 1/2" (145-1120) | FT | 2.3330 |
| 26 |358017 | 99 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 6.0000 |
| 26 |358017 | 95 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 1.0000 |
| 26 |358089 | 100 | 250 | HOSE CUFFS 3/4" (142-0340) | EA | 4.0000 |
| 26 |358143 | 110 | 250 | HOSE CUFFS 1 1/2" (142-1120) | EA | 4.0000 |
| 26 |359025 | 120 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 2.0000 |
| 26 |359043 | 130 | 250 | TUBING 3/8 I.D. X 1/2" O.D. *COLD WA | FT | 2.0000 |
| 32 |465770 | 70 | 600 | O/H PHIL #10 X 3/4" S/S T/A | EA | 3.0000 |
| 27 |656700 | 140 | 300 | WIRE, DUPLEX, UL BOAT CABLE 16/2 BL | FT | 16.5000 |

HUNTER

460 FRESH WATER SYSTEM PARTS LIST

46000071

ENGINEERING DEPT.

3/23/89

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|---------------------------------------|----|--------------|
| 24 |P4615 | 530 | 999 | TANK, WATER, 18GAL, H460 | EA | 1.0000 |
| 26 |P4623 | 620 | 999 | LABEL, "PORT FWD WATER TANK" H420 | EA | 1.0000 |
| |BD020055 | 60 | 5 | H460-STBD WATER TANK | EA | 1.0000 |
| 26 |353355 | 40 | 250 | HOSE CLAMP #10 | EA | 4.0000 |
| 26 |353427 | 50 | 250 | HOSE CLAMP #24 | EA | 8.0000 |
| 26 |354867 | 250 | 250 | ELBOW PVC 1 1/2" SLIP X MPT | EA | 1.0000 |
| 26 |355335 | 320 | 250 | BARB, PIPE TO HOSE PVC #8002 (3/4") | EA | 1.0000 |
| 26 |355461 | 260 | 250 | FITTING, 1.5" Y TEE SLIPXSLIP PVC | EA | 1.0000 |
| 26 |355479 | 230 | 250 | ADAPTER 1 1/2" X 1 1/2" #341513 | EA | 4.0000 |
| 26 |355767 | 290 | 250 | ELBOW, ST PLSTC 3/4" | EA | 1.0000 |
| 31 |356199 | 70 | 200 | DECK PLATE WATER BLUE | EA | 1.0000 |
| 26 |357981 | 75 | 250 | HOSE SHIELDVAC 1 1/2" (145-1120) | FT | 2.3300 |
| 26 |357981 | 80 | 250 | HOSE SHIELDVAC 1 1/2" (145-1120) | FT | 4.5000 |
| 26 |358017 | 100 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 5.5000 |
| 26 |358017 | 105 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 1.0000 |
| 26 |358089 | 300 | 250 | HOSE CUFFS 3/4" (142-0340) | EA | 4.0000 |
| 26 |358143 | 110 | 250 | HOSE CUFFS 1 1/2" (142-1120) | EA | 4.0000 |
| 26 |359025 | 120 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 2.0000 |
| 26 |359043 | 140 | 250 | TUBING 3/8 I.D. X 1/2" O.D. "COLD WA | FT | 2.0000 |
| 27 |465770 | 20 | 600 | O/H PHIL #10 X 3/4" S/S T/A | EA | 3.0000 |
| 28 |656700 | 240 | 300 | WIRE, DUPLEX, UL BOAT CABLE 16/2 BL | FT | 12.0000 |
| 24 |P4620 | 170 | 999 | TANK, WATER, STBD, 45GAL, H460 | EA | 1.0000 |
| 26 |P4622 | 85 | 999 | LABEL, "STBD FWD WATER TANK" H420 | EA | 1.0000 |
| |BD020065 | 70 | 5 | H460-FRESH WATER PUMP | EA | 1.0000 |
| 53 |102180 | 10 | 78 | FREEZE BAN | GL | 5.0000 |
| 27 |257570 | 60 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 2.0000 |
| 26 |351951 | 70 | 250 | PUMP, FRESH WATER, 2088-423-244, 2.8G | EA | 1.0000 |
| 26 |352095 | 80 | 250 | PUMP STRAINER #36400-1010 | EA | 1.0000 |
| 26 |355461 | 150 | 250 | FITTING, 1.5" Y TEE SLIPXSLIP PVC | EA | 1.0000 |
| 26 |359025 | 90 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 2.0000 |
| 26 |359043 | 120 | 250 | TUBING 3/8 I.D. X 1/2" O.D. "COLD WA | FT | 1.3300 |
| 26 |359061 | 100 | 250 | COUPLING, QC33F, 1/2" X 1/2" FEMALE | EA | 2.0000 |
| 27 |466570 | 20 | 600 | P/H PHIL #10 X 1" S/S T/A | EA | 27.0000 |
| 27 |469590 | 30 | 600 | WASHER NEO 1/4" S/S W/N/B | EA | 4.0000 |
| 28 |654500 | 40 | 300 | WIRE BLACK SC-12 GAUGE | FT | 17.0000 |
| 28 |655200 | 110 | 300 | WIRE BROWN SC-12 GAUGE | FT | 17.0000 |
| 28 |656500 | 50 | 300 | CONDUIT 3/4" 125-0340 | FT | 6.0000 |
| |BD020075 | 80 | 5 | H460-WATER MANIFOLD | EA | 1.0000 |
| 26 |353193 | 90 | 250 | CLAMP DG-20 | EA | 2.0000 |
| 26 |358971 | 30 | 250 | SHUT OFF VALVE 1/2" X 1/2" | EA | 5.0000 |
| 26 |359061 | 50 | 250 | COUPLING, QC33F, 1/2" X 1/2" FEMALE | EA | 11.0000 |
| 26 |359079 | 100 | 250 | TEES 1/2" X 1/2" X 1/2" 1500 (T333T) | EA | 6.0000 |
| 26 |359115 | 110 | 250 | ELBOW STR. 1/2" MPT X 1/2" PPT #QSE | EA | 5.0000 |
| 26 |359205 | 80 | 250 | ELBOW 1/2" X MPT X 1/2" MPT #E33T/15 | EA | 2.0000 |
| 32 |461330 | 70 | 600 | F/H PHIL #10 X 1 1/2" S/S T/A | EA | 6.0000 |
| 27 |466670 | 10 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 6.0000 |

HUNTER
 460 FRESH WATER SYSTEM PARTS LIST CONT
 DRAWING NO. 46000272
 NONE
 3/25/98
 ENGINEERING DEPT.

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|-------------------------------------|---------|--------------|
| |BD020085 | 90 | 5 | H460-GALLEY FAUCET | EA | 1.0000 |
| 43 |351285 | 30 | 250 | FAUCET - GALLEY W/HANDLES - #10-310 | EA | 1.0000 |
| 26 |359025 | 40 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 4.0000 |
| 26 |359043 | 110 | 250 | TUBING 3/8 I.D. X 1/2" O.D."COLD WA | FT | 18.0000 |
| 26 |359044 | 120 | 250 | TUBING,QUEST, RED STRIPE,"HOT" | FT | 27.0000 |
| 26 |359079 | 80 | 250 | TEES 1/2X1/2X1/2-1500 (T333T) | EA | 2.0000 |
| 26 |359115 | 100 | 250 | ELBOW STR. 1/2" MPT X 1/2 FPT | EQSE EA | 6.0000 |
| |BD020095 | 100 | 5 | H460-FRESH WATER INLET | EA | 1.0000 |
| 34 |353859 | 20 | 250 | CHECK VALVE 1/2" | EA | 1.0000 |
| 34 |354327 | 70 | 250 | NIPPLES BRASS 1/2" X 2" | EA | 1.0000 |
| 34 |356433 | 10 | 250 | FRESH WATER INLET FITTING #499-000 | EA | 1.0000 |
| 34 |359025 | 30 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 4.0000 |
| 34 |359079 | 40 | 250 | TEES 1/2X1/2X1/2-1500 (T333T) | EA | 1.0000 |
| 26 |359205 | 50 | 250 | ELBOW 1/2" X MPT X 1/2"MPT #E33T/15 | EA | 1.0000 |
| |BD020115 | 110 | 5 | H460-AFT SHOWER | EA | 1.0000 |
| 43 |351303 | 10 | 250 | FAUCET - VANITY - W/SHOWER #10-324 | EA | 1.0000 |
| 61 |351447 | 70 | 250 | SHOWER HOLDER HAND #100100-SD | EA | 1.0000 |
| 26 |359025 | 20 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 8.0000 |
| 26 |359043 | 80 | 250 | TUBING 3/8 I.D. X 1/2" O.D."COLD WA | FT | 17.0000 |
| 26 |359044 | 90 | 250 | TUBING,QUEST, RED STRIPE,"HOT" | FT | 17.0000 |
| 26 |359079 | 30 | 250 | TEES 1/2X1/2X1/2-1500 (T333T) | EA | 2.0000 |
| 26 |359115 | 40 | 250 | ELBOW STR. 1/2" MPT X 1/2 FPT | EQSE EA | 2.0000 |
| |BD020125 | 120 | 5 | H460-AFT VANITY FAUCET | EA | 1.0000 |
| 43 |351375 | 10 | 250 | FAUCET - VANITY - W/O SHOWER #10-30 | EA | 1.0000 |
| 26 |359025 | 20 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 8.0000 |
| 26 |359043 | 30 | 250 | TUBING 3/8 I.D. X 1/2" O.D."COLD WA | FT | 11.0000 |
| 26 |359044 | 40 | 250 | TUBING,QUEST, RED STRIPE,"HOT" | FT | 11.0000 |
| |BD020175 | 130 | 5 | H460-AFT COCKPIT FAUCET | EA | 1.0000 |
| 31 |351267 | 10 | 250 | SHOWER, STOWAWAY #48500 | EA | 1.0000 |
| 26 |359025 | 20 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 2.0000 |
| 26 |359043 | 30 | 250 | TUBING 3/8 I.D. X 1/2" O.D."COLD WA | FT | 15.0000 |
| 26 |359044 | 40 | 250 | TUBING,QUEST, RED STRIPE,"HOT" | FT | 15.0000 |
| 26 |359115 | 60 | 250 | ELBOW STR. 1/2" MPT X 1/2 FPT | EQSE EA | 2.0000 |
| 27 |460250 | 70 | 500 | CABLE TIES BLACK, 15" W/ EYE | EA | 15.0000 |
| 27 |465770 | 80 | 600 | O/H PHIL #10 X 3/4" S/S T/A | EA | 15.0000 |
| 27 |466670 | 90 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 15.0000 |
| |BD020185 | 140 | 5 | H460-STB AFT WATER TANK | EA | 1.0000 |
| 27 |257570 | 190 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 2.0000 |
| 26 |353355 | 320 | 250 | HOSE CLAMP #10 | EA | 6.0000 |
| 26 |353427 | 60 | 250 | HOSE CLAMP #24 | EA | 8.0000 |
| 26 |354849 | 350 | 250 | TEE,PVC, 3/4" HOSE | EA | 1.0000 |

HUNTER
 460 FRESH WATER SYSTEM PARTS LIST CONT.
 400057K
 NONE
 3/23/99
 ENGINEERING DEPT.

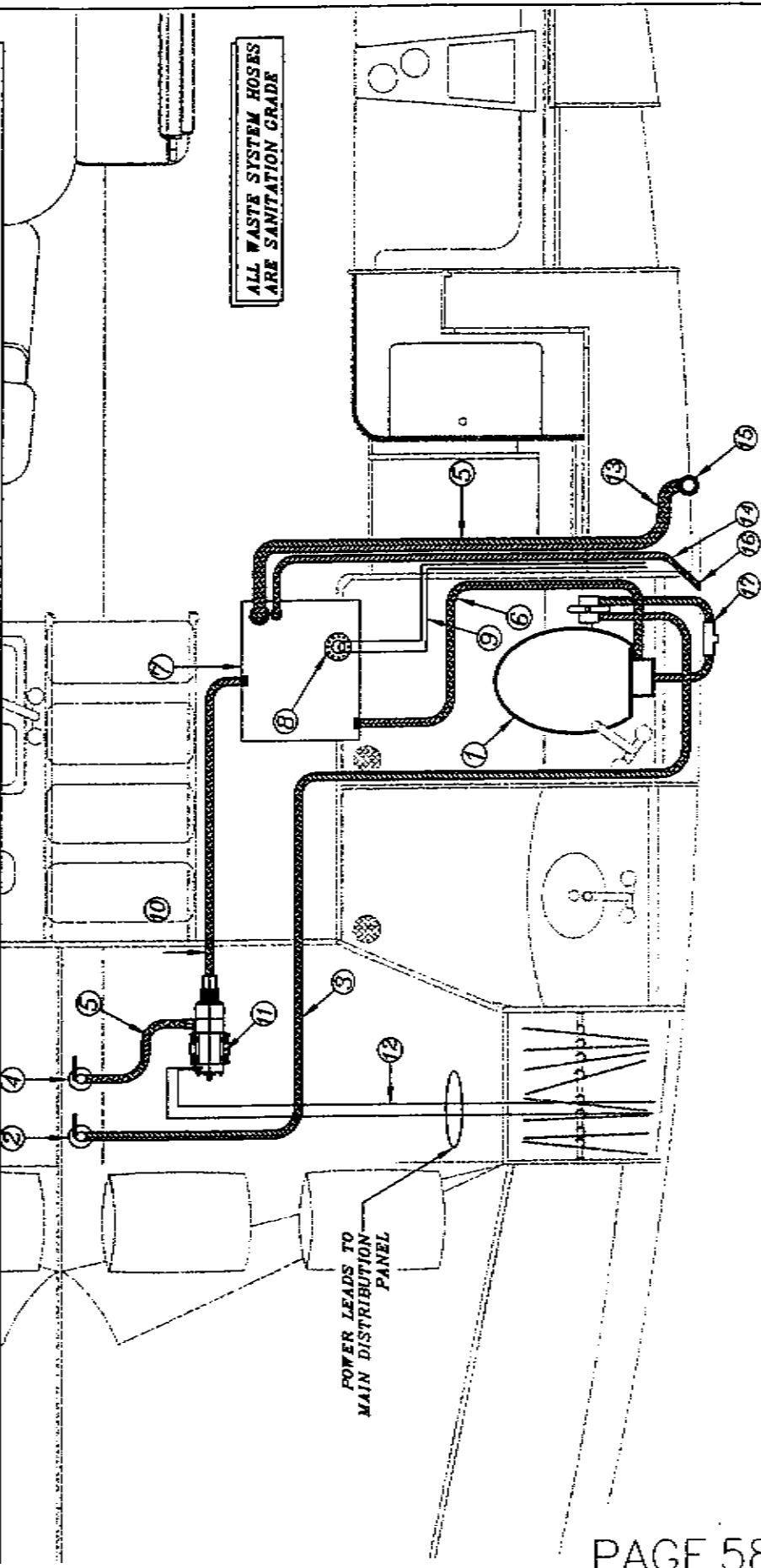
| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|---------------------------------------|------|--------------|
| 26 |354867 | 180 | 250 | ELBOW PVC 1 1/2" SLIP X MPT | EA | 1.0000 |
| 26 |355335 | 170 | 250 | BARB, PIPE TO HOSE PVC #8002 (3/4") | EA | 1.0000 |
| 26 |355479 | 360 | 250 | ADAPTER 1 1/2" X 1 1/2" #341513 | EA | 1.0000 |
| 26 |355767 | 200 | 250 | ELBOW, ST PLSTC 3/4" | EA | 1.0000 |
| 26 |357981 | 80 | 250 | HOSE SHIELDVAC 1 1/2" (145-1120) | FT | 6.0000 |
| 26 |358017 | 90 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 8.5000 |
| 26 |358017 | 370 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 3.0000 |
| 26 |358089 | 100 | 250 | HOSE CUFFS 3/4" (142-0340) | EA | 2.0000 |
| 26 |358089 | 340 | 250 | HOSE CUFFS 3/4" (142-0340) | EA | 4.0000 |
| 26 |358143 | 110 | 250 | HOSE CUFFS 1 1/2" (142-1120) | EA | 2.0000 |
| 26 |359025 | 120 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 2.0000 |
| 26 |359043 | 130 | 250 | TUBING 3/8 I.D. X 1/2" O.D. "COLD WA | FT | 2.0000 |
| 26 |359205 | 140 | 250 | ELBOW 1/2" X MPT X 1/2" MPT #E33T/15 | EA | 1.0000 |
| 27 |460250 | 20 | 600 | CABLE TIES BLACK, 15" W/ EYE | EA | 10.0000 |
| 27 |656700 | 150 | 300 | WIRE, DUPLEX, UL BOAT CABLE 16/2 BL | FT | 22.0000 |
| 10 |P4619 | 240 | 999 | TANK, WATER, STBD APT, 21GAL, H460 | EA | 1.0000 |
| 26 |P4622 | 270 | 999 | LABEL, "STBD FWD WATER TANK" H420 | EA | 1.0000 |
| |BD020195 | 160 | 5 | PORT AFT WATER TANK | EA | 1.0000 |
| 27 |257570 | 30 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 2.0000 |
| 26 |286130 | 40 | 210 | LABEL PHENOLIC "PORT WATER TANK" | EA | 1.0000 |
| 26 |353355 | 50 | 250 | HOSE CLAMP #10 | EA | 2.0000 |
| 26 |353427 | 60 | 250 | HOSE CLAMP #24 | EA | 4.0000 |
| 26 |354849 | 280 | 250 | TEE, PVC, 3/4" HOSE | EA | 1.0000 |
| 26 |354867 | 70 | 250 | ELBOW PVC 1 1/2" SLIP X MPT | EA | 1.0000 |
| 26 |355335 | 80 | 250 | BARB, PIPE TO HOSE PVC #8002 (3/4") | EA | 1.0000 |
| 26 |355479 | 300 | 250 | ADAPTER 1 1/2" X 1 1/2" #341513 | EA | 1.0000 |
| 26 |355767 | 100 | 250 | ELBOW, ST PLSTC 3/4" | EA | 1.0000 |
| 26 |357981 | 130 | 250 | HOSE SHIELDVAC 1 1/2" (145-1120) | FT | 2.0000 |
| 26 |358017 | 140 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 7.0000 |
| 26 |358089 | 150 | 250 | HOSE CUFFS 3/4" (142-0340) | EA | 2.0000 |
| 26 |358143 | 160 | 250 | HOSE CUFFS 1 1/2" (142-1120) | EA | 2.0000 |
| 26 |359025 | 170 | 250 | SEATING 1/2 O.D. 500FNCR-2 | EA | 2.0000 |
| 26 |359043 | 180 | 250 | TUBING 3/8 I.D. X 1/2" O.D. "COLD WA | FT | 3.0000 |
| 27 |460250 | 200 | 600 | CABLE TIES BLACK, 15" W/ EYE | EA | 10.0000 |
| 28 |656700 | 210 | 300 | WIRE, DUPLEX, UL BOAT CABLE 16/2 BL | FT | 19.0000 |
| 24 |P4618 | 220 | 999 | TANK, WATER, 35G, AFT, PORT, H460 | EA | 1.0000 |
| |BD030001 | 20 | 5 | WASTE WATER PLUMBING ASSEMBLY | EA | 1.0000 |
| |BD030005 | 1 | 5 | ANCHOR WALL DRAIN | EA | 1.0000 |
| 51 |314250 | 10 | 250 | MIDGET CLAMSHELL VENT | EA | 4.0000 |
| 32 |466850 | 50 | 600 | P/H PHIL #6 X 5/16" TY A S/S H29.5 | EA | 12.0000 |
| |BD030025 | 10 | 5 | H460-FWD WASTE TANK | EA | 1.0000 |
| 56 |253700 | 10 | 300 | GUAGE, WASTE WATER, HTG-1 | EA | 1.0000 |
| 26 |253754 | 210 | 300 | SENDER, WASTE TANK, 2SECTION SH2 | H EA | 1.0000 |
| 27 |257570 | 20 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 2.0000 |
| 24 |352941 | 220 | 250 | TANK, HOLDING, H460, 209022 | EA | 1.0000 |
| 26 |353157 | 30 | 250 | FUEL VENT #503-4 (WATER) | EA | 1.0000 |
| 26 |353355 | 40 | 250 | HOSE CLAMP #10 | EA | 3.0000 |
| 26 |353427 | 50 | 250 | HOSE CLAMP #24 | EA | 4.0000 |
| 26 |354687 | 290 | 250 | PLUG, PVC-DWD, 1 1/2" MPT | EA | 1.0000 |
| 26 |354885 | 300 | 250 | ELBOW 90DEGREE 1 1/2" SLIP X SLIP | EA | 2.0000 |
| 26 |355335 | 70 | 250 | BARB, PIPE TO HOSE PVC #8002 (3/4") | EA | 1.0000 |
| 26 |355425 | 80 | 250 | BARB 1/2" MPT X 3/4" HB SHIELDS WHITE | EA | 1.0000 |

HUNTER
 400 FRESH WATER SYSTEM PARTS LIST CONT.
 40080571
 NONE
 3/25/80
 ENGINEERING DEPT.

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|--|----|--------------|
| 26 |353427 | 60 | 250 | HOSE CLAMP #24 | EA | 2.0000 |
| 26 |353931 | 70 | 250 | BALL VALVE 3/4" #70-104-10 | EA | 1.0000 |
| 26 |354057 | 80 | 250 | BARB, HOSE, BRASS, 3/4" | EA | 1.0000 |
| 26 |355767 | 90 | 250 | ELBOW, ST PLSTC 3/4" | EA | 1.0000 |
| 26 |358035 | 100 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 8.0000 |
| 26 |358035 | 110 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 10.5000 |
| 26 |358035 | 120 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 7.0000 |
| 26 |358413 | 160 | 250 | HOSE, SANI, 1.5" "LOW PERM" 104-1126 | FT | 6.0000 |
| 27 |464070 | 130 | 600 | HEX HD 5/16 X 1 1/2" S/S L/B | EA | 4.0000 |
| 27 |469530 | 150 | 600 | WASHER LOCK 5/16" S/S L/W | EA | 4.0000 |
| 27 |469610 | 140 | 600 | WASHER NEO 3/8" S/S W/N/B 7/8 O | EA | 4.0000 |
| |BD030045 | 70 | 5 | H460-PORT FWD VANITY | EA | 1.0000 |
| 26 |286280 | 10 | 560 | LABEL, THRUHULL, VANITY DISCHARGE | EA | 1.0000 |
| 43 |350655 | 20 | 250 | SINK DRAIN #SW2 90DEGREE #907014 | EA | 1.0000 |
| 26 |352635 | 30 | 250 | BRASS THRU HULL FITTING 1" #65-BN7- | EA | 1.0000 |
| 26 |353373 | 40 | 250 | HOSE CLAMP #12 | EA | 4.0000 |
| 26 |353877 | 100 | 250 | BALL VALVE (1") BRASS #70-105-10 | EA | 1.0000 |
| 26 |354075 | 50 | 250 | BARB, HOSE, BRASS, 1" | EA | 1.0000 |
| 26 |358071 | 70 | 250 | HOSE SHIELDVAC 1" (140-1000) LH | FT | 7.5000 |
| 26 |358107 | 80 | 250 | HOSE CUFFS 1" (100-1000) | EA | 2.0000 |
| 26 |355443 | 140 | 250 | ADAPTER, 1.5"MPT X 1.5"SLIP PVC SCH4 | EA | 2.0000 |
| 26 |355479 | 90 | 250 | ADAPTER 1 1/2" X 1 1/2" #341513 | EA | 2.0000 |
| 26 |355803 | 120 | 150 | ELBOW 90 DEG. STR/ELL BR. 3/4" | EA | 1.0000 |
| 31 |356217 | 130 | 200 | DECK PLATE WASTE BROWN | EA | 1.0000 |
| 26 |357108 | 330 | 150 | TUBE, TANK, FWD WASTE DISCH. H460 | EA | 1.0000 |
| 26 |358035 | 310 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 15.0000 |
| 26 |358143 | 145 | 250 | HOSE CUFFS 1 1/2" (142-1120) | EA | 15.0000 |
| 26 |358413 | 180 | 250 | HOSE, SANI, 1.5" "LOW PERM" 104-1126 | FT | 0.5000 |
| 25 |358683 | 100 | 250 | PIPE 1 1/2" PVC SCH160 | FT | 0.3330 |
| 32 |465770 | 190 | 600 | O/H PHIL #10 X 3/4" S/S T/A | EA | 1.0000 |
| 28 |656700 | 200 | 300 | WIRE, DUPLEX, UL BOAT CABLE 16/2 BL | FT | 28.0000 |
| |BD030035 | 40 | 5 | H460-FWD HEAD PLUMBING | EA | 1.0000 |
| 26 |286430 | 10 | 560 | LABEL, THRUHULL, *HEAD PICKUP* | EA | 1.0000 |
| 26 |314430 | 170 | 200 | CHAFE GUARD, PLASTIC, 2" 450 | EA | 2.0000 |
| 26 |350295 | 180 | 250 | TOLIET, MANUAL *HOUSEHOLD* #29120-000 | EA | 1.0000 |
| 26 |352293 | 30 | 250 | VENTED LOOP, W/VALVE, 3/4" PVC | EA | 1.0000 |
| 26 |352617 | 40 | 250 | BRASS THRU HULL FITTING 3/4" #65-BN | EA | 1.0000 |
| 26 |353355 | 50 | 250 | HOSE CLAMP #10 | EA | 7.0000 |

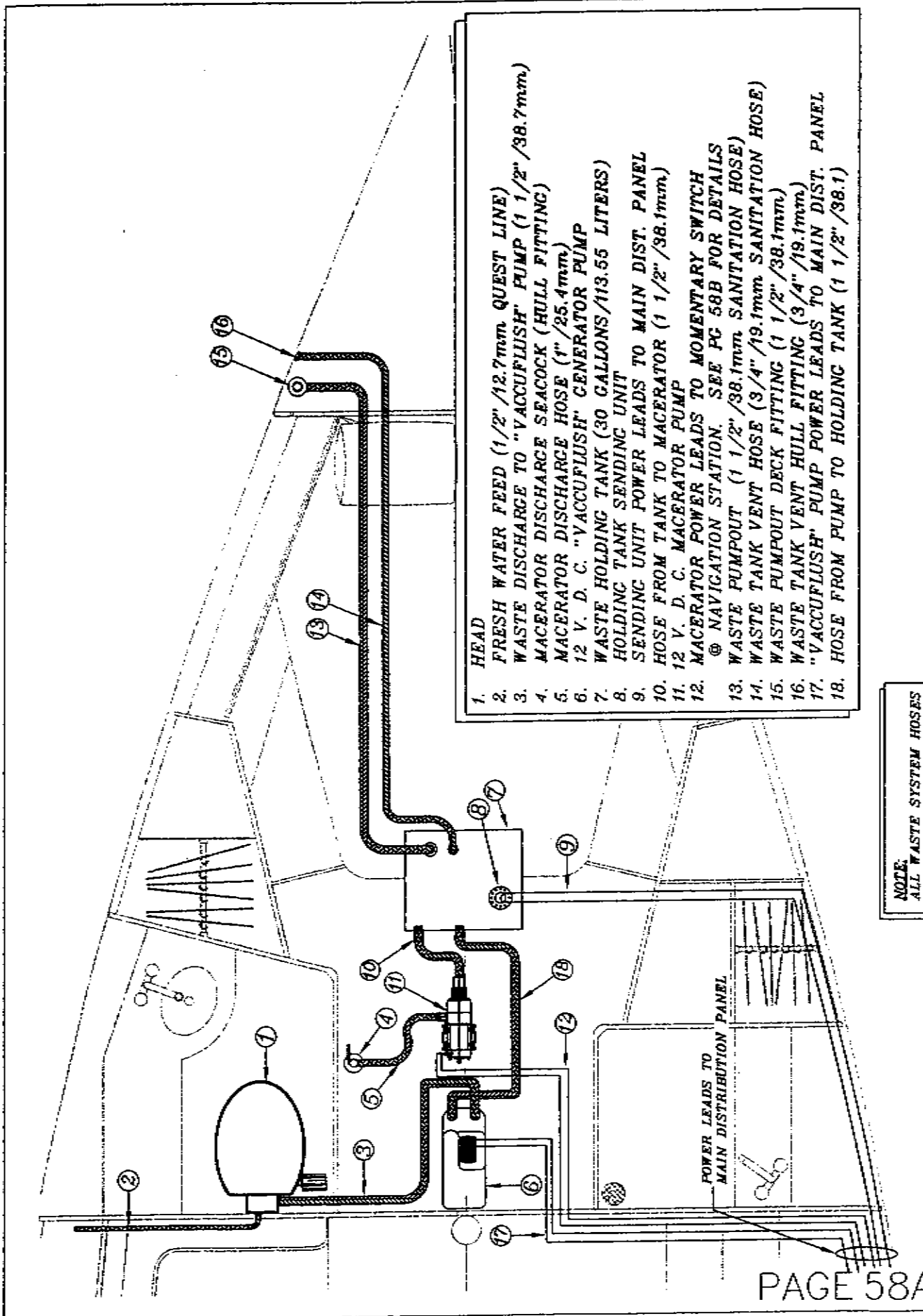
HUNTERCRAFT
 460 FRESH WATER SYSTEM PARTS LIST CONT.
 DRAWING NO. H460057M
 4600057M
 ENGINEERING DEPT.
 3/25/09

1. HEAD
2. HEAD RAW WATER PICKUP SEACOCK (HULL FITTING)
3. RAW WATER PICKUP TO HEAD. (3/4" /19.1mm SANITATION HOSE)
4. MACERATOR DISCHARGE SEACOCK (HULL FITTING)
5. MACERATOR DISCHARGE HOSE (1" /25.4mm)
6. WASTE HOSE INTO TANK FROM HEAD (1 1/2" /38.1mm)
7. WASTE HOLDING TANK (20 GALLONS /75.70 LITERS)
8. HOLDING TANK SENDING UNIT
9. SENDING UNIT POWER LEADS TO MAIN DIST. PANEL
10. HOSE FROM TANK TO MACERATOR (1 1/2" /38.1mm)
11. 12 V. D. C. MACERATOR PUMP
12. MACERATOR POWER LEADS TO MOMENTARY SWITCH @ NAVIGATION STATION. SEE PC 58B FOR DETAILS
13. WASTE PUMPOUT (1 1/2" /38.1mm SANITATION HOSE)
14. WASTE TANK VENT HOSE (3/4" /19.1mm SANITATION HOSE)
15. WASTE PUMPOUT DECK FITTING (1 1/2" /38.1mm)
16. WASTE TANK VENT HULL FITTING (3/4" /19.1mm)
17. (3/4" /19.1mm) VENTED LOOP



ALL WASTE SYSTEM HOSES ARE SANITATION GRADE

POWER LEADS TO MAIN DISTRIBUTION PANEL

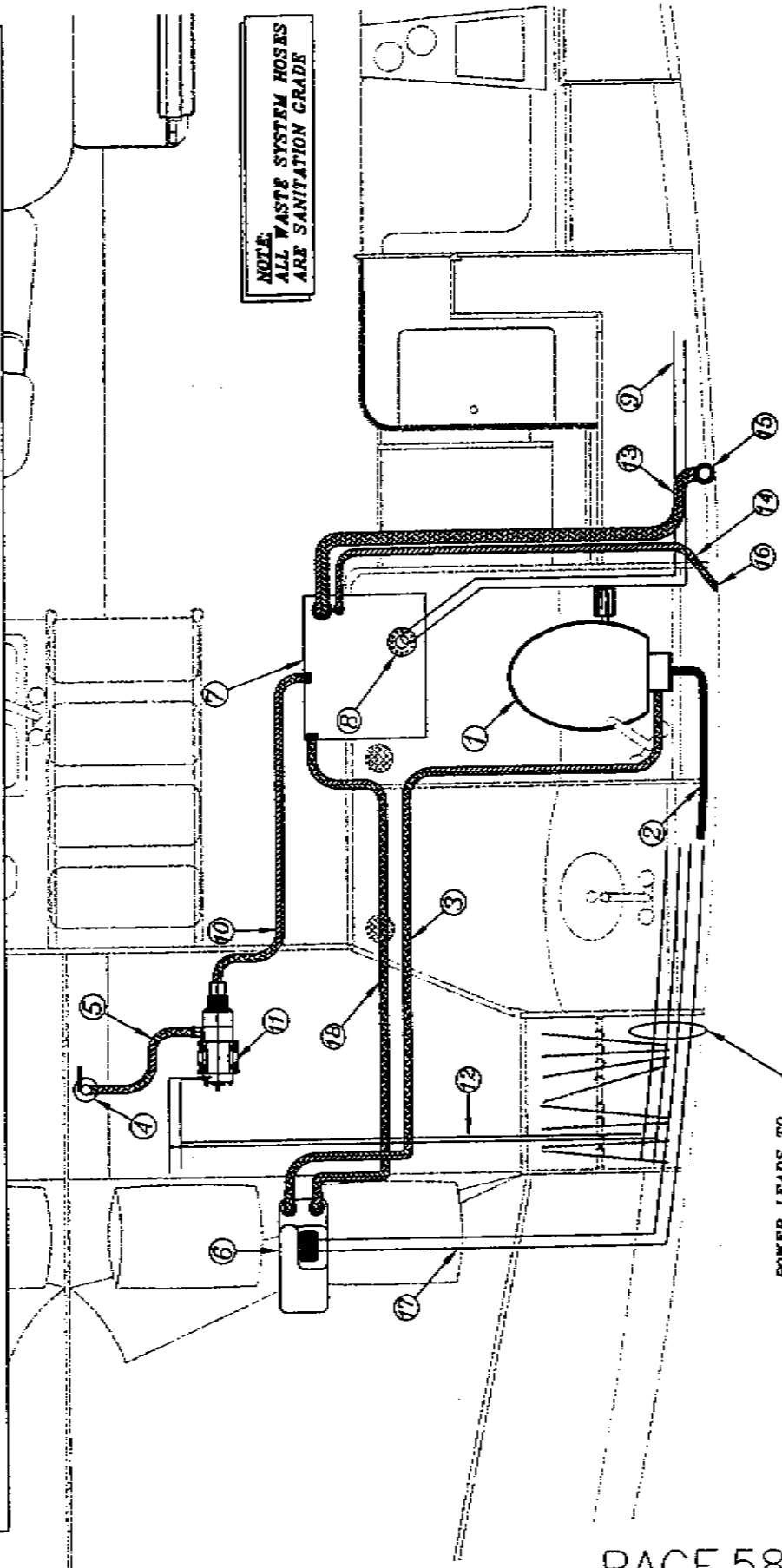


1. HEAD
2. FRESH WATER FEED (1/2" /12.7mm QUEST LINE)
3. WASTE DISCHARGE TO "VACCUFLUSH" PUMP (1 1/2" /38.7mm)
4. MACERATOR DISCHARGE SEACOCK (HULL FITTING)
5. MACERATOR DISCHARGE HOSE (1" /25.4mm)
6. 12 V. D. C. "VACCUFLUSH" GENERATOR PUMP
7. WASTE HOLDING TANK (30 GALLONS/113.55 LITERS)
8. HOLDING TANK SENDING UNIT
9. SENDING UNIT POWER LEADS TO MAIN DIST. PANEL
10. HOSE FROM TANK TO MACERATOR (1 1/2" /38.1mm)
11. 12 V. D. C. MACERATOR PUMP
12. MACERATOR POWER LEADS TO MOMENTARY SWITCH
13. NAVIGATION STATION. SEE PG 58B FOR DETAILS
14. WASTE PUMP/OUT (1 1/2" /38.1mm SANITATION HOSE)
15. WASTE TANK VENT HOSE (3/4" /19.1mm SANITATION HOSE)
16. WASTE PUMP/OUT DECK FITTING (1 1/2" /38.1mm)
17. WASTE TANK VENT HULL FITTING (3/4" /19.1mm)
18. "VACCUFLUSH" PUMP POWER LEADS TO MAIN DIST. PANEL

NOTE:
ALL WASTE SYSTEM HOSES
ARE SANITATION GRADE.

1. HEAD
2. FRESH WATER FEED (1 1/2" /12.7mm QUEST LINE)
3. WASTE DISCHARGE TO "VACCUFLUSH" PUMP
4. MACERATOR DISCHARGE SEACOCK (HULL FITTING)
5. MACERATOR DISCHARGE HOSE (1" /25.4mm)
6. 12 V. D. C. "VACCUFLUSH" GENERATOR PUMP
7. WASTE HOLDING TANK (20 GALLONS /75.70 LITERS)
8. HOLDING TANK SENDING UNIT
9. SENDING UNIT POWER LEADS TO MAIN DIST. PANEL
10. HOSE FROM TANK TO MACERATOR (1 1/2" /38.1mm)
11. 12 V. D. C. MACERATOR PUMP
12. MACERATOR POWER LEADS TO MOMENTARY SWITCH @ NAVIGATION STATION. SEE PC 58B FOR DETAILS
13. WASTE TANK VENT HOSE (3/4" /19.1mm SANITATION HOSE)
14. WASTE TANK VENT DECK FITTING (1 1/2" /38.1mm)
15. WASTE TANK VENT HULL FITTING (3/4" /19.1mm)
16. "VACCUFLUSH" PUMP POWER LEADS TO MAIN DIST. PANEL
17. HOSE FROM TANK TO HOLDING TANK (1 1/2" /38.1mm)
18. HOSE FROM TANK TO MACERATOR (1 1/2" /38.1mm)

NOTE:
ALL WASTE SYSTEM HOSES
ARE SANITATION GRADE



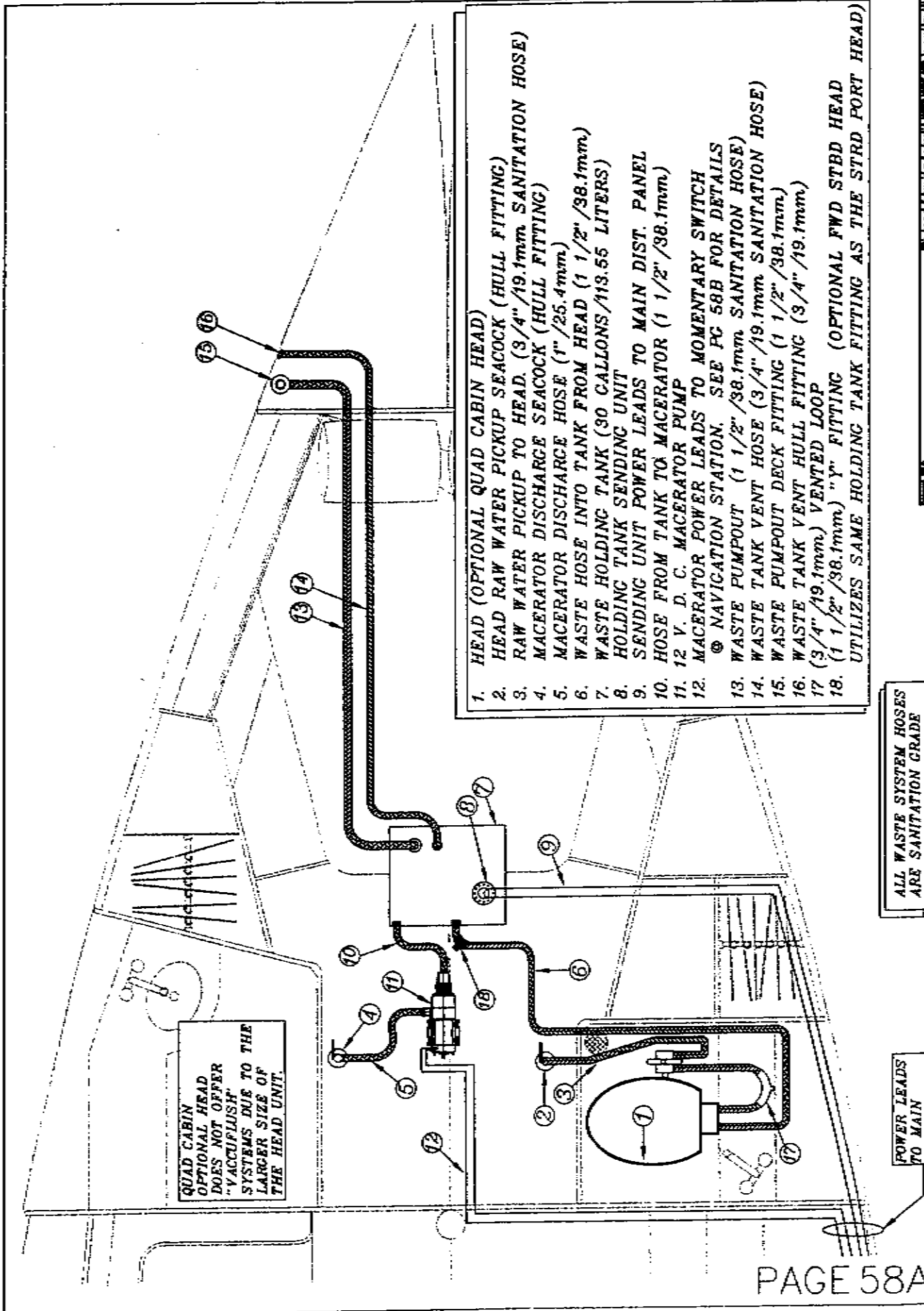
POWER LEADS TO
MAIN DISTRIBUTION
PANEL

HUNTER

400 (OPT) AT HEAD FACILITY WASTE SYSTEM LAYOUT

PC 58055A-4 Number: NONE Date: 1/19/99

ENGINEERING DEPT.



QUAD CABIN
OPTIONAL HEAD
DOES NOT OFFER
"VACUFLUSH"
SYSTEMS DUE TO THE
LARGER SIZE OF
THE HEAD UNIT.

1. HEAD (OPTIONAL QUAD CABIN HEAD)
2. HEAD RAW WATER PICKUP SEACOCK (HULL FITTING)
3. RAW WATER PICKUP TO HEAD. (3/4" /19.1mm SANITATION HOSE)
4. MACERATOR DISCHARGE SEACOCK (HULL FITTING)
5. MACERATOR DISCHARGE HOSE (1" /25.4mm)
6. WASTE HOSE INTO TANK FROM HEAD (1 1/2" /38.1mm)
7. WASTE HOLDING TANK (90 GALLONS/113.55 LITERS)
8. HOLDING TANK SENDING UNIT
9. SENDING UNIT POWER LEADS TO MAIN DIST. PANEL
10. HOSE FROM TANK TO MACERATOR (1 1/2" /38.1mm)
11. 12 V. D. C. MACERATOR PUMP
12. MACERATOR POWER LEADS TO MOMENTARY SWITCH
⊗ NAVIGATION STATION. SEE PG 58B FOR DETAILS
13. WASTE PUMPOUT (1 1/2" /38.1mm SANITATION HOSE)
14. WASTE TANK VENT HOSE (3/4" /19.1mm SANITATION HOSE)
15. WASTE PUMPOUT DECK FITTING (1 1/2" /38.1mm)
16. WASTE TANK VENT HULL FITTING (3/4" /19.1mm)
17. (3/4" /19.1mm) VENTED LOOP
18. (1 1/2" /38.1mm) "Y" FITTING (OPTIONAL FWD STBD HEAD UTILIZES SAME HOLDING TANK FITTING AS THE STRD PORT HEAD)

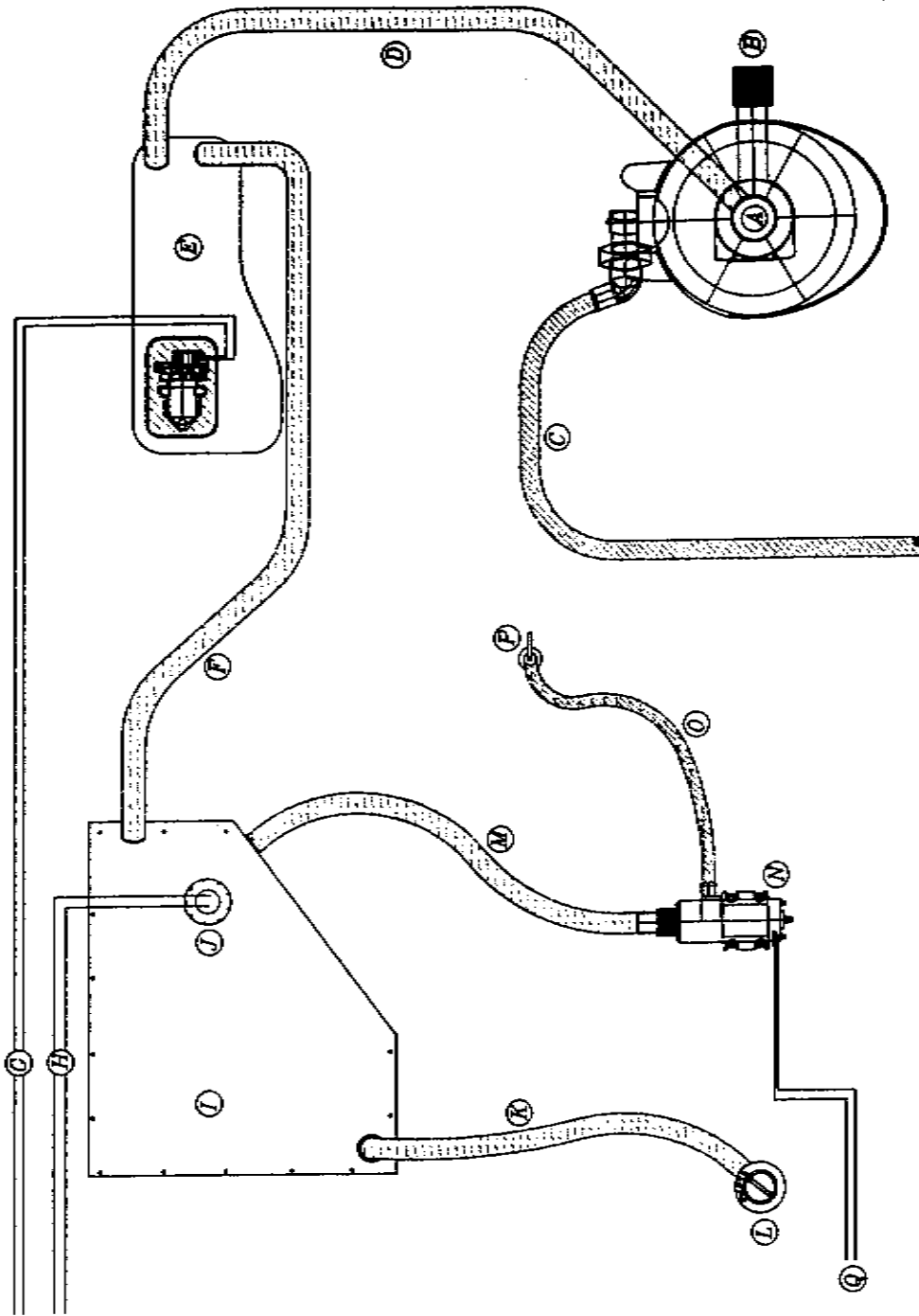
ALL WASTE SYSTEM HOSES
ARE SANITATION GRADE

POWER LEADS
TO MAIN
DISTRIBUTION
PANEL

HUNTER

450 (PT) QUAD CABIN STD HEAD WASTE SYSTEM LAYOUT

| | | |
|-------------------|------------|---------|
| Model No. | 5808058A-5 | None |
| Revision No. | | 1/18/99 |
| Engineering Dept. | | |

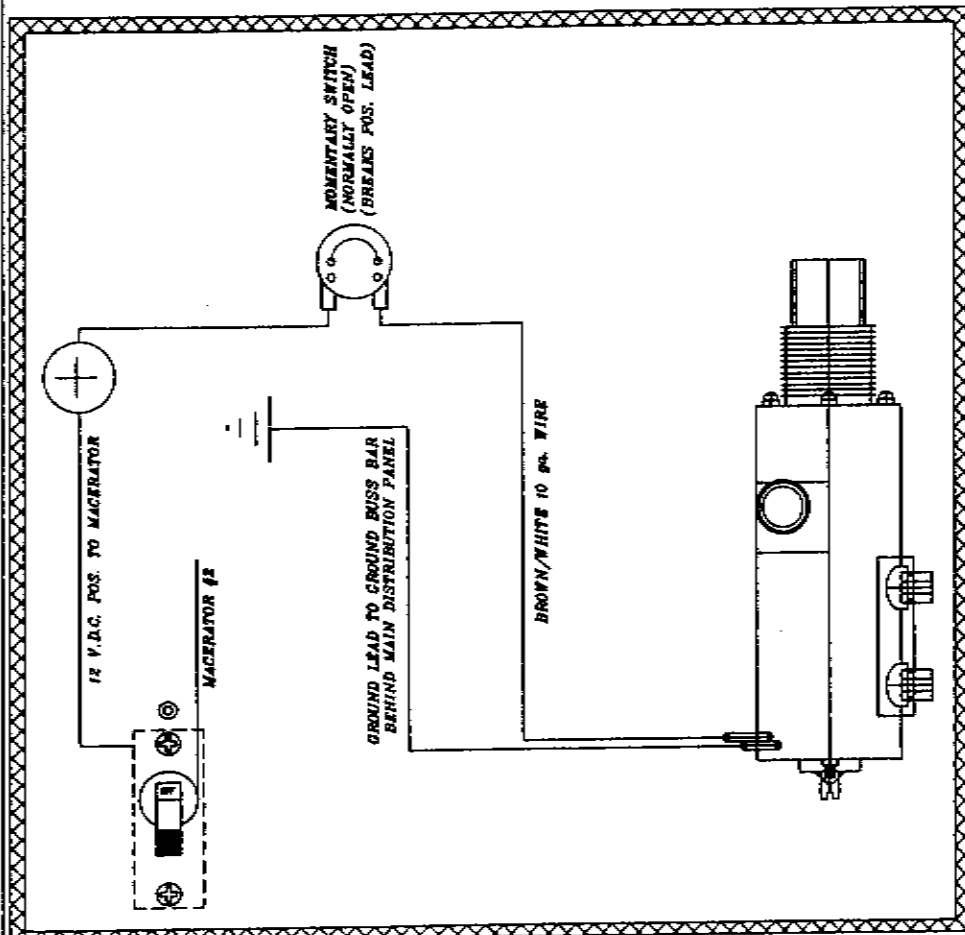


- (A) "VACUFLUSH" HEAD
- (B) PEDAL TO ENGAGE FLUSHING SEQUENCE
- (C) FRESH H2O QUEST LINE FEED. TEED FROM CLOSEST SOURCE. (EX. VANITY SINK OR SHOWER)
- (D) WASTE HOSE FROM HEAD TO GENERATOR.
- (E) "VACUFLUSH" GENERATOR PUMP
- (F) WASTE HOSE FROM GEN. TO HOLDING TANK
- (G) GEN. POWER LEAD TO MAIN DIST. PANEL
- (H) SENDING UNIT POWER LEAD TO MAIN DIST. PANEL
- (I) TYP. WASTE HOLDING TANK
- (J) SENDING UNIT.
- (K) WASTE HOSE TO DECK PUMP OUT.
- (L) DECK FITTING.
- (M) WASTE HOSE FROM TANK TO MACER.
- (N) MACERATOR
- (O) WASTE HOSE FROM TANK TO MACER.
- (P) WASTE HOSE FROM MACER. TO SEACOCK.
- (Q) MACER DISCHARGE THRU HULL SEACOCK

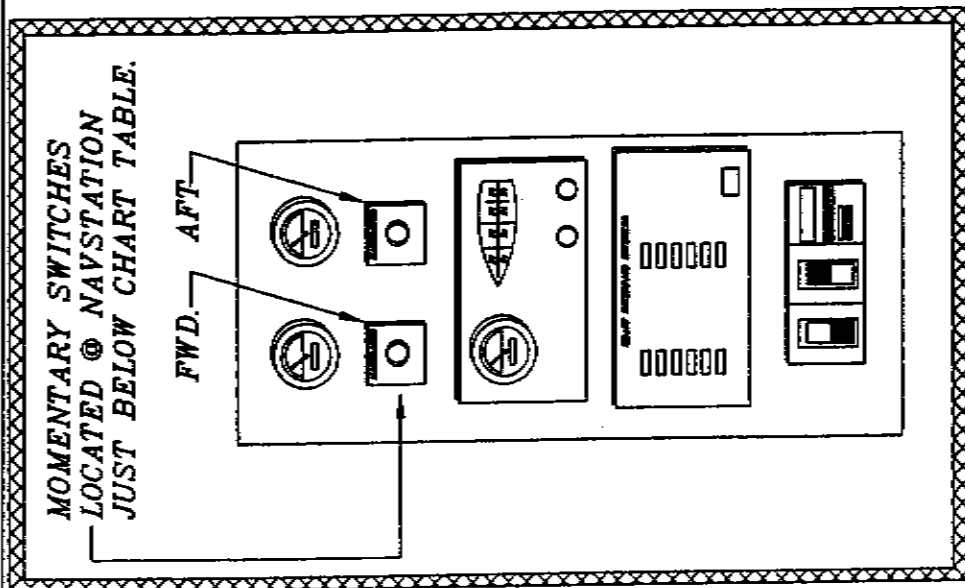
- (A) "VACUFLUSH" HEAD
- (B) PEDAL TO ENGAGE FLUSHING SEQUENCE
- (C) FRESH H2O QUEST LINE FEED. TEED FROM CLOSEST SOURCE. (EX. VANITY SINK OR SHOWER)
- (D) WASTE HOSE FROM HEAD TO GENERATOR.
- (E) "VACUFLUSH" GENERATOR PUMP
- (F) WASTE HOSE FROM GEN. TO HOLDING TANK
- (G) GEN. POWER LEAD TO MAIN DIST. PANEL
- (H) SENDING UNIT POWER LEAD TO MAIN DIST. PANEL
- (I) TYP. WASTE HOLDING TANK
- (J) SENDING UNIT.
- (K) WASTE HOSE TO DECK PUMP OUT.
- (L) DECK FITTING.
- (M) WASTE HOSE FROM TANK TO MACER.
- (N) MACERATOR
- (O) WASTE HOSE FROM TANK TO MACER.
- (P) WASTE HOSE FROM MACER. TO SEACOCK.
- (Q) MACER DISCHARGE THRU HULL SEACOCK

HUNTER
 ADD'D PT. "MOUNTAIN" DECK WASTE SYSTEM SCHEMATIC
 808058A-6 NONE 1/19/99
 ENGINEERING DEPT.

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, THEREFORE IT IS MORE EFFECTIVE AND SAFER FOR THE PUMP IF THE OPERATOR USES THE "LISTENING" METHOD TO DETERMINE IF THE TANK HAS BEEN EMPTIED.



MACERATOR SCHEMATIC
TYPICAL

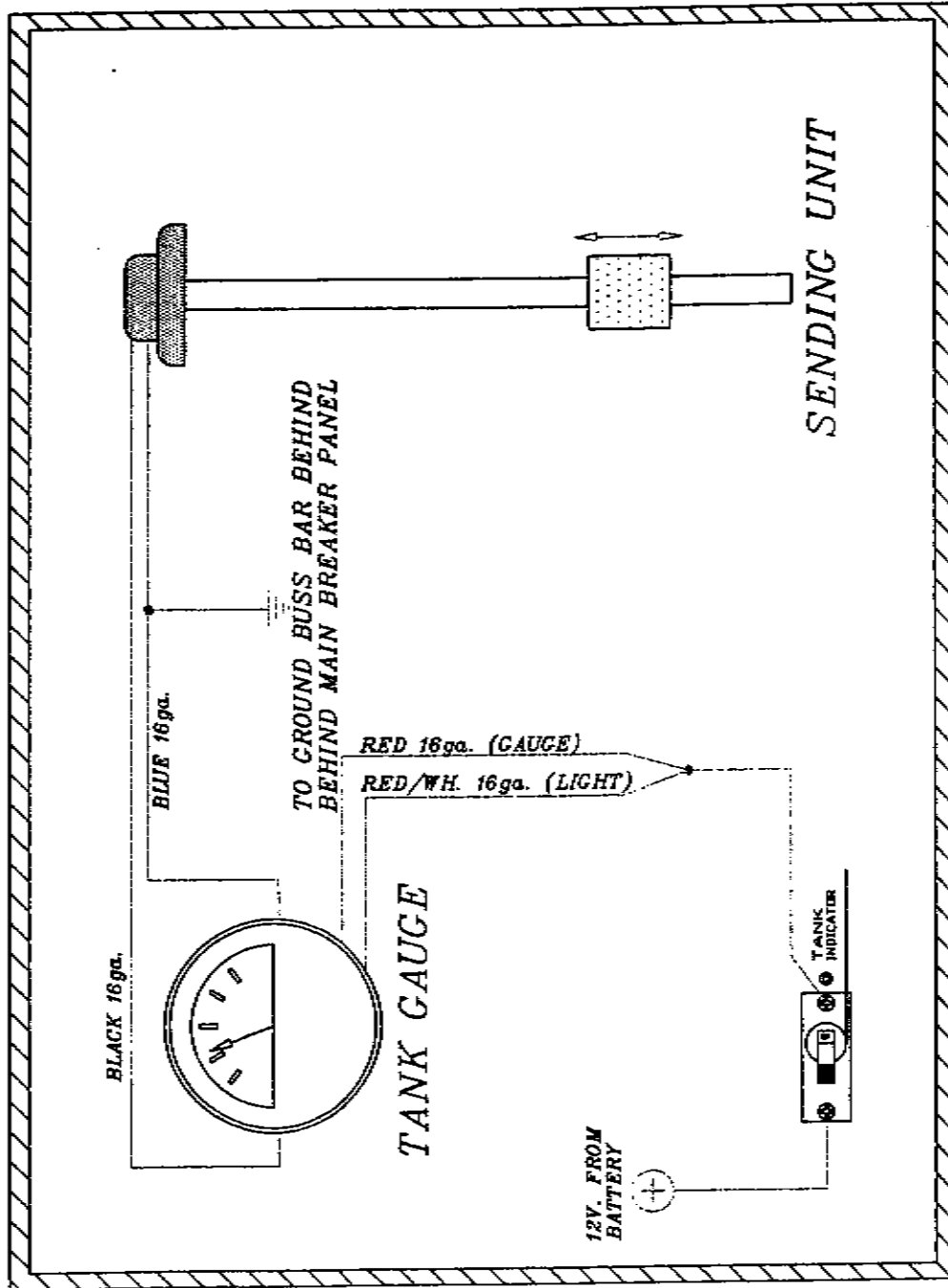


MOMENTARY SWITCH LOCATION

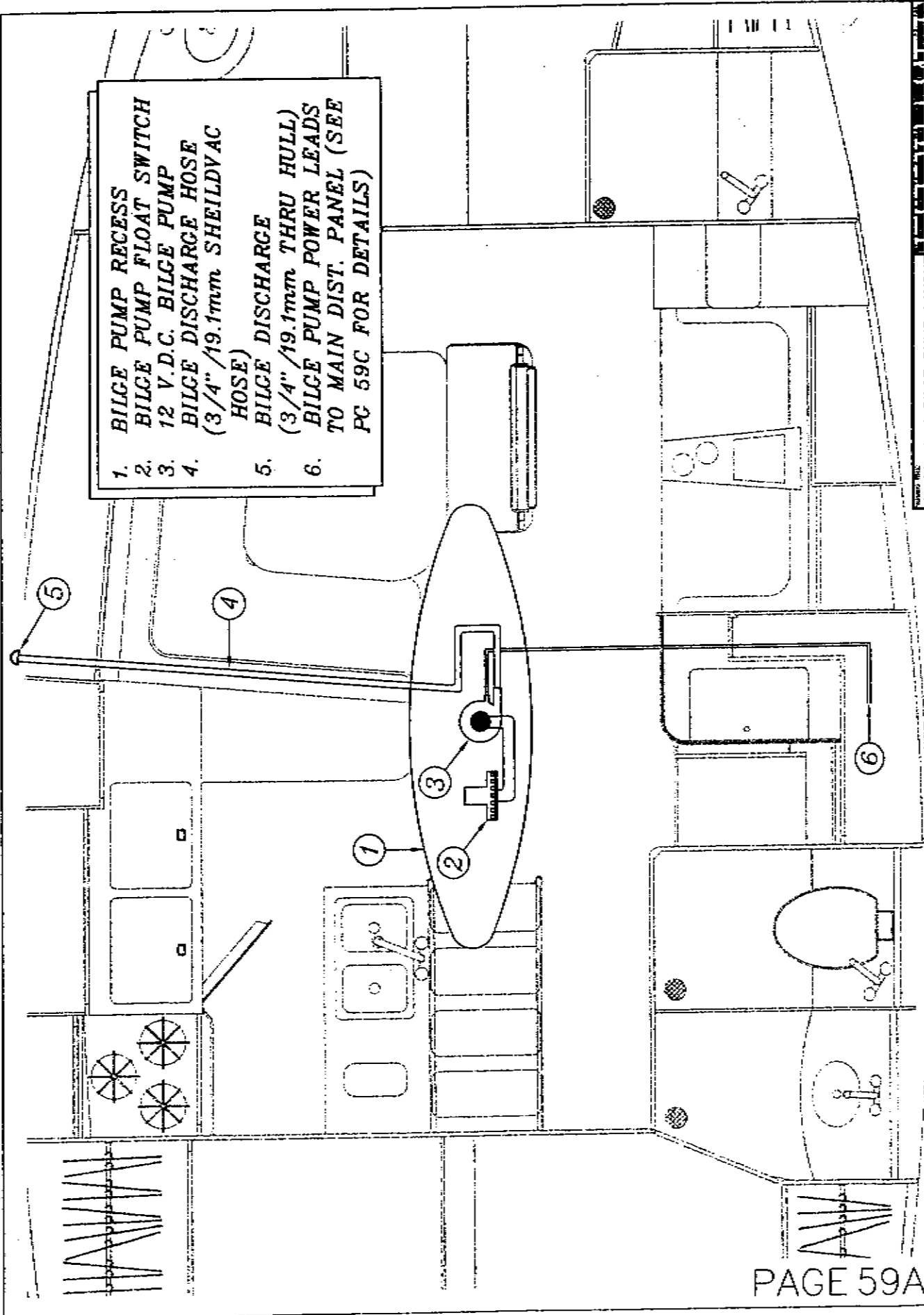
H460 BASIC MACERATOR WIRING SCHEMATIC

12080380 NONE 1/20/88
ENGINEERING DEPT

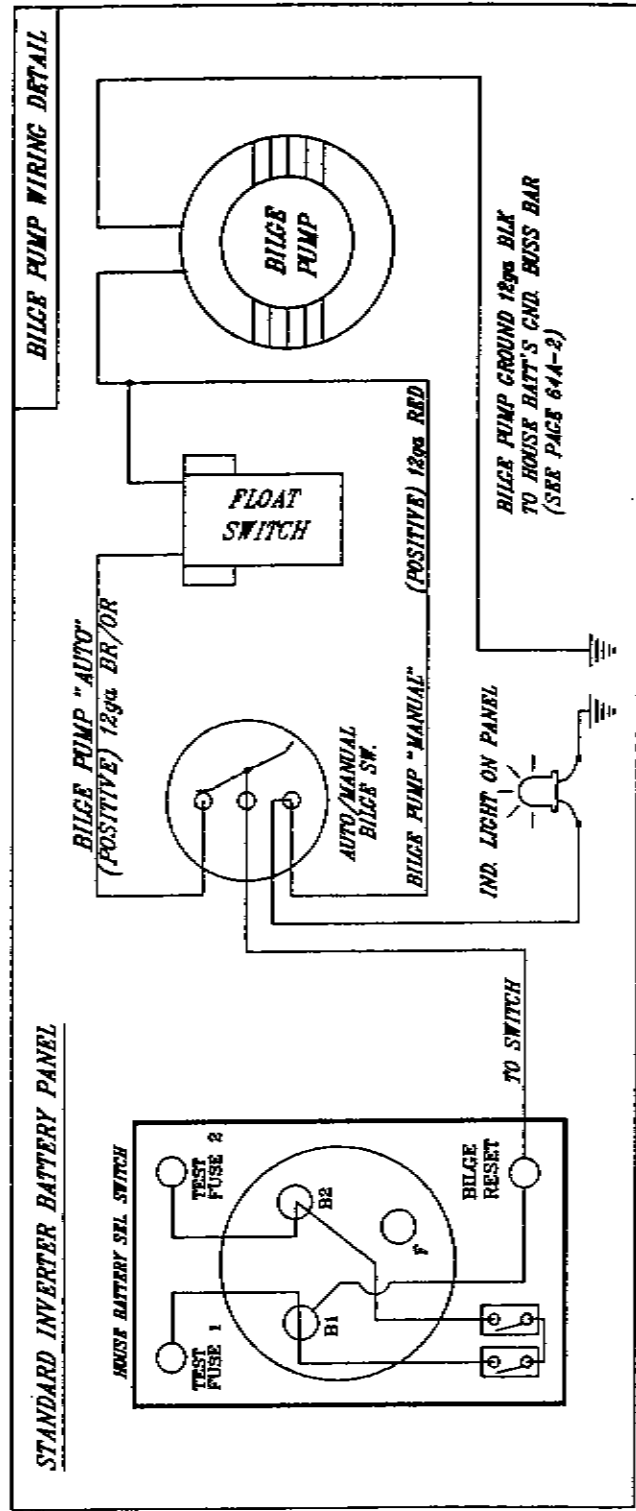
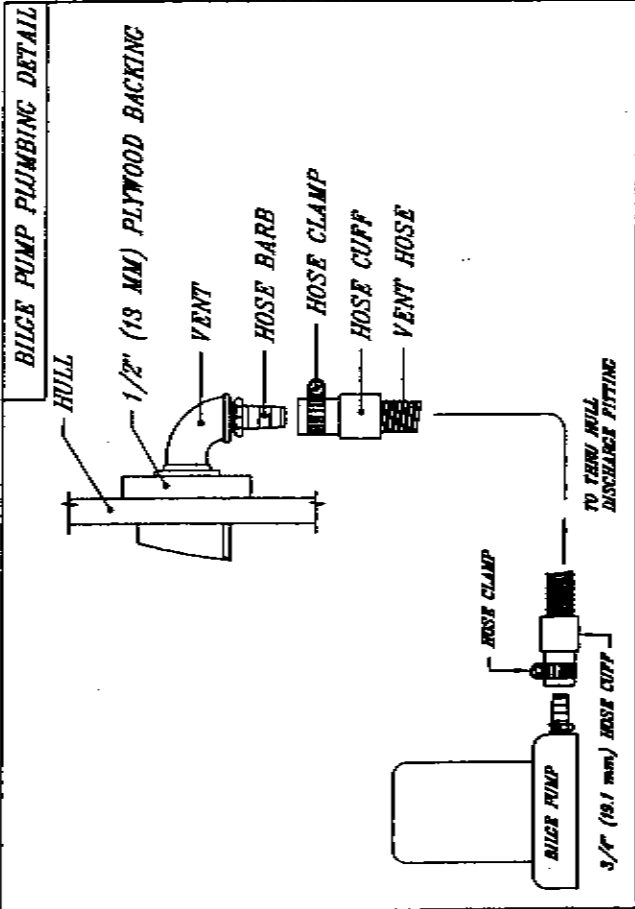
HUNTER

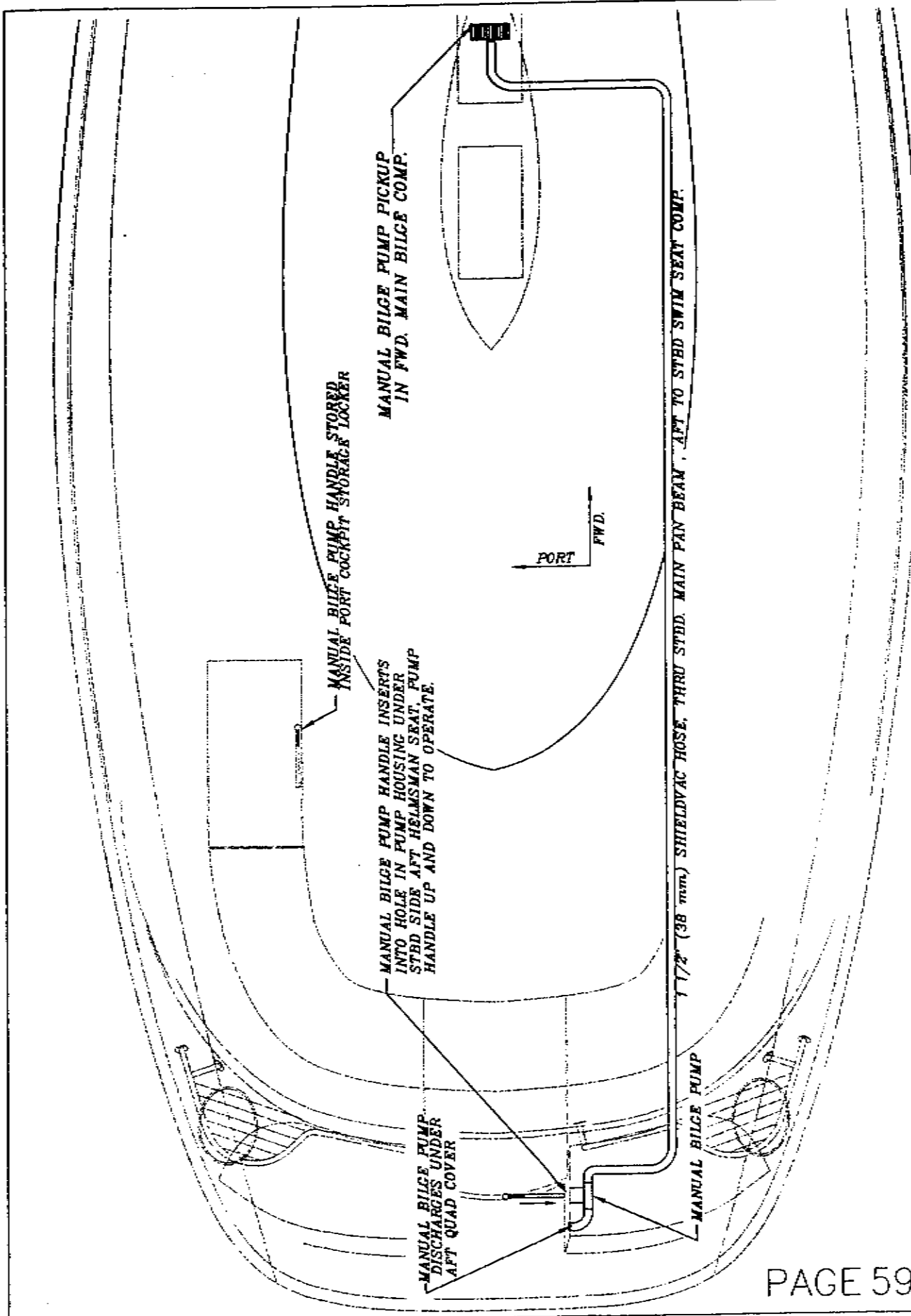


NOTE:
 ALWAYS KEEP WASTE DISCHARGE BALL
 VALVES CLOSED WHEN SYSTEM IS NOT IN USE.



1. BILGE PUMP RECESS
2. BILGE PUMP FLOAT SWITCH
3. 12 V.D.C. BILGE PUMP
4. BILGE DISCHARGE HOSE (3/4" / 19.1mm SHEILDVAC HOSE)
5. BILGE DISCHARGE (3/4" / 19.1mm THRU HULL)
6. BILGE PUMP POWER LEADS TO MAIN DIST. PANEL (SEE PC 59C FOR DETAILS)





MANUAL BILGE PUMP HANDLE STORED
INSIDE PORT COCKPIT STORAGE LOCKER

MANUAL BILGE PUMP HANDLE INSERTS
INTO HOLE IN PUMP HOUSING UNDER
STBD SIDE AFT HELMSMAN SEAT. PUMP
HANDLE UP AND DOWN TO OPERATE.

MANUAL BILGE PUMP
DISCHARGES UNDER
AFT QUAD COVER

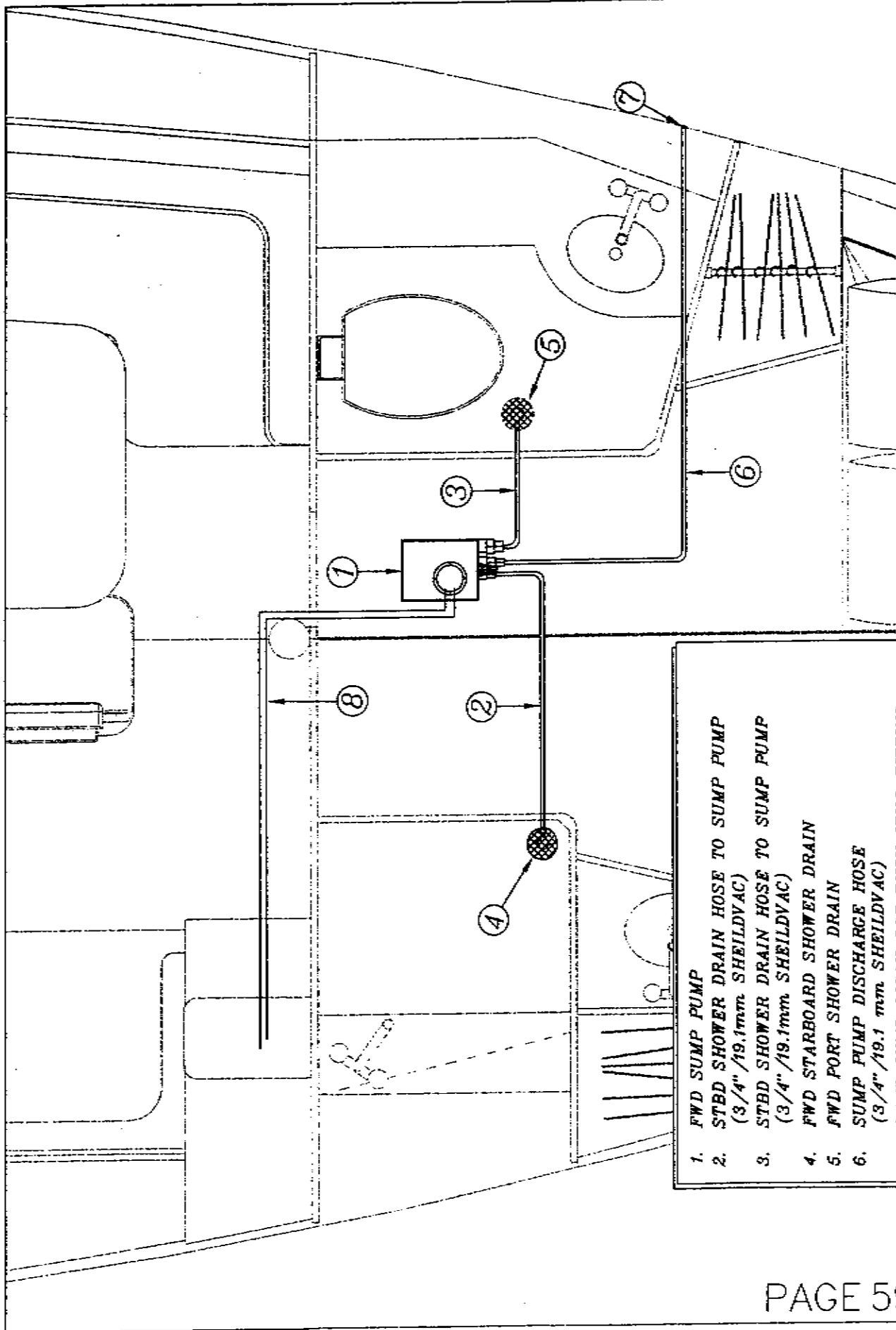
MANUAL BILGE PUMP PICKUP
IN FWD. MAIN BILGE COMP.

PORT
FWD.

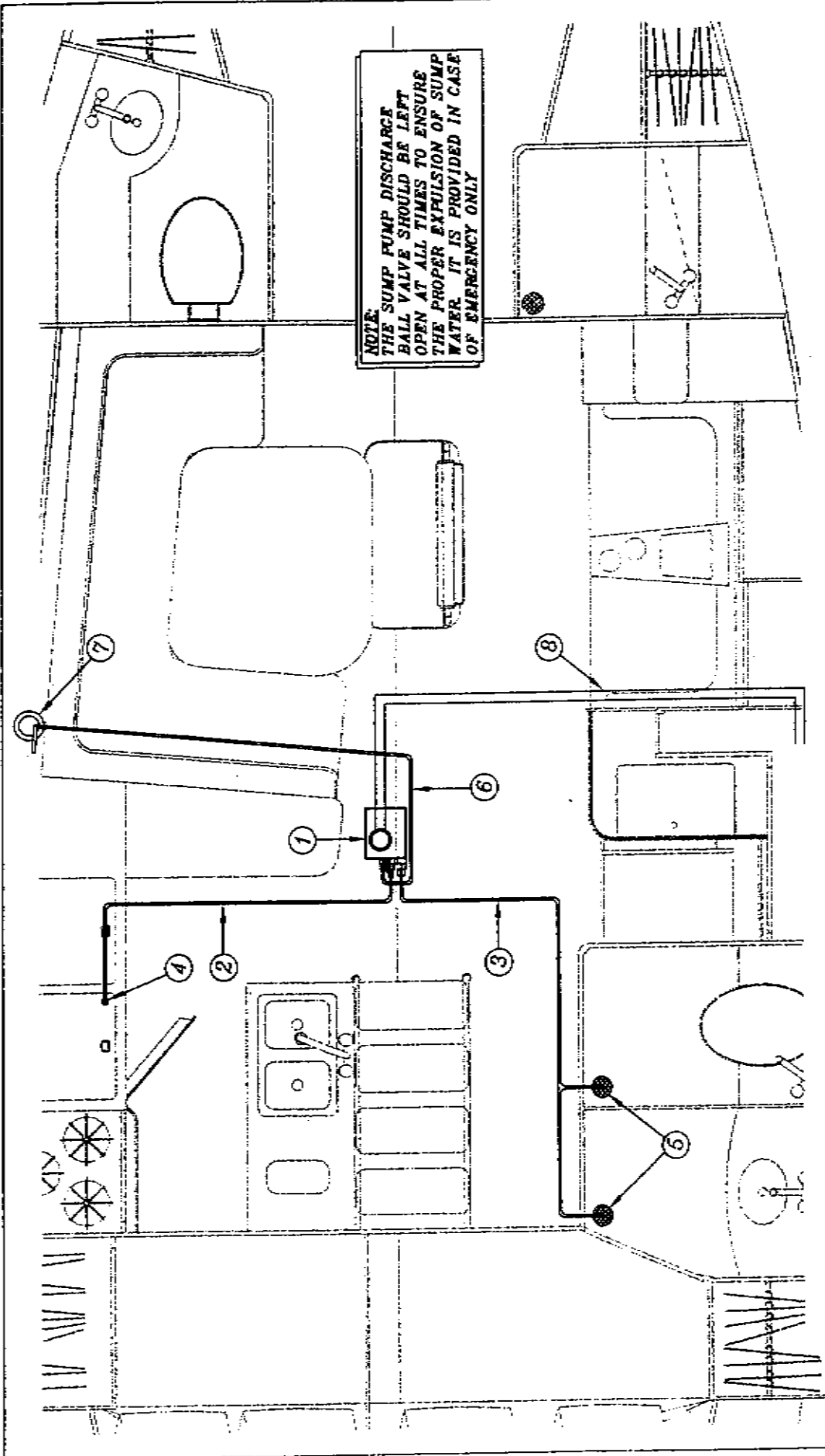
1 1/2" (38 mm) SHIELDVAC HOSE, THRU STBD. MAIN PAN BEAM, AFT TO STBD SWIM SEAT COMP.

MANUAL BILGE PUMP

| | |
|--------------------------------------|---------|
| HUNTER | |
| H460 MANUAL BILGE PUMP LAYOUT | |
| 4008039C | NONE |
| ENGINEERING DEPT | 1/22/99 |



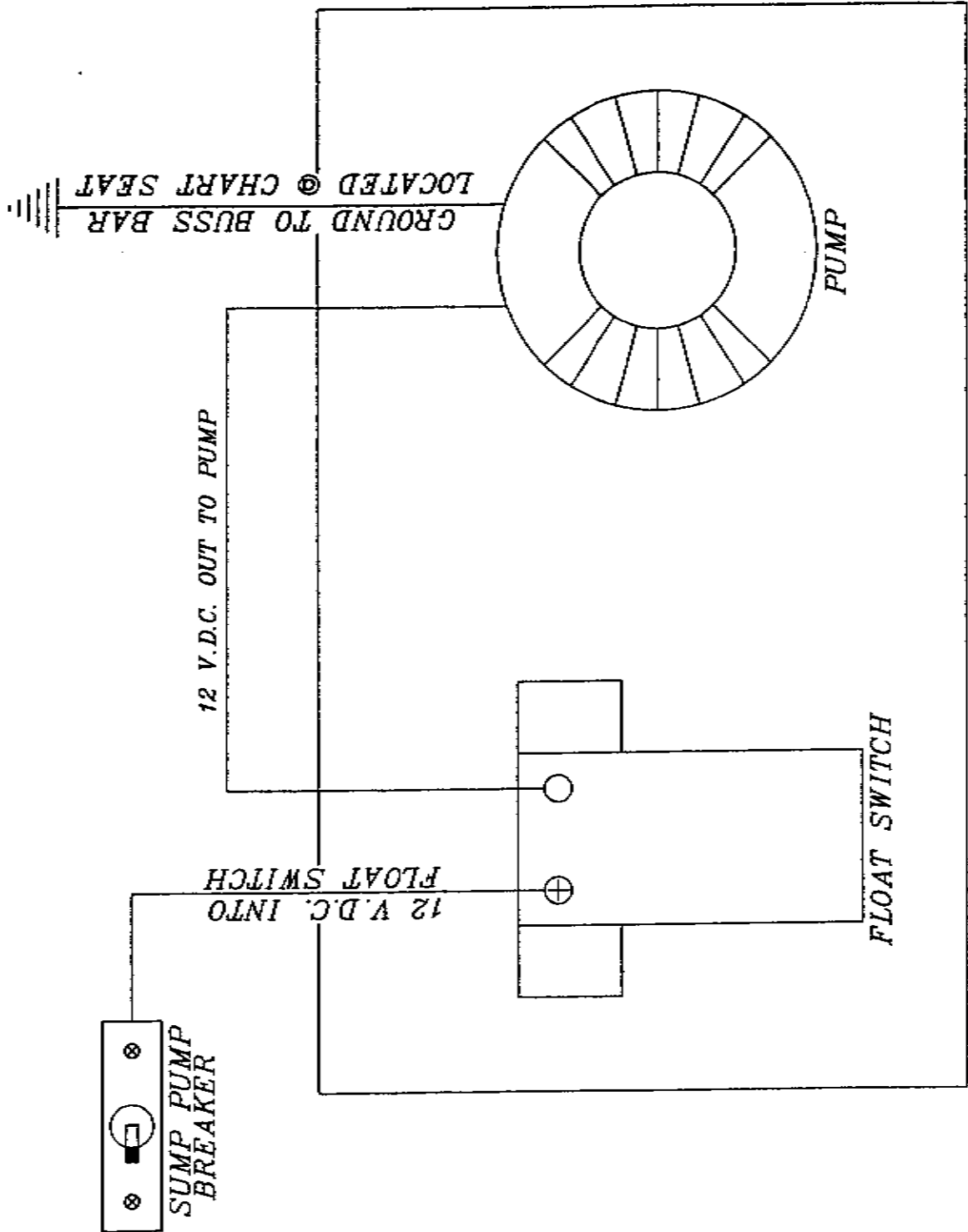
- 1. FWD SUMP PUMP
- 2. STBD SHOWER DRAIN HOSE TO SUMP PUMP
(3/4" /19.1mm SHEILDVAC)
- 3. STBD SHOWER DRAIN HOSE TO SUMP PUMP
(3/4" /19.1mm SHEILDVAC)
- 4. FWD STARBOARD SHOWER DRAIN
- 5. FWD PORT SHOWER DRAIN
- 6. SUMP PUMP DISCHARGE HOSE
(3/4" /19.1 mm SHEILDVAC)
- 7. SUMP PUMP DISCHARGE THRU HULL FITTING
(3/4" /19.1 mm SHEILDVAC)
- 8. SUMP PUMP POWER LEADS TO MAIN DIST. PANEL



NOTE:
 THE SUMP PUMP DISCHARGE BALL VALVE SHOULD BE LEFT OPEN AT ALL TIMES TO ENSURE THE PROPER EXPULSION OF SUMP WATER. IT IS PROVIDED IN CASE OF EMERGENCY ONLY.

- 5. STBD. AFT SHOWER DRAIN(S)
- 6. SUMP PUMP DISCHARGE HOSE (3/4" /19.1 mm SHEILDVAC)
- 7. SUMP PUMP DISCHARGE THRU HULL BALL VALVE (3/4" /19.1 mm SHEILDVAC)
- 8. SUMP PUMP POWER LEADS TO MAIN DIST. PANEL

- 1. AFT SUMP PUMP
- 2. FRIG/FREEZER DRAIN HOSE TO SUMP PUMP (3/4" /19.1mm SHEILDVAC)
- 3. STBD AFT SHOWER DRAIN HOSE TO SUMP PUMP (3/4" /19.1mm SHEILDVAC)
- 4. FRIG/FREEZER DRAIN



SUMP BOX

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|--|------|--------------|
| |BD030065 | 80 | 5 | H460-AFT WASTE TANK | EA | 1.0000 |
| 56 |253700 | 10 | 300 | GUAGE, WASTE WATER, HTG-1 | EA | 1.0000 |
| 26 |253754 | 180 | 300 | SENDER, WASTE TANK, 2SECTION SH2 | H EA | 1.0000 |
| 27 |257570 | 80 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 2.0000 |
| 26 |314430 | 240 | 200 | CHAFE GUARD, PLASTIC, 2" 450 | EA | 1.0000 |
| 26 |314440 | 130 | 200 | CHAFE GUARD, PLASTIC, 3" H450 | EA | 1.0000 |
| 24 |353031 | 190 | 250 | TANK, HOLDING, AFT, PLASTIC 30GAL | H EA | 1.0000 |
| 26 |353157 | 150 | 250 | FUEL VENT #503-4 (WATER) | EA | 1.0000 |
| 26 |353355 | 40 | 250 | HOSE CLAMP #10 | EA | 3.0000 |
| 26 |353427 | 20 | 250 | HOSE CLAMP #24 | EA | 4.0000 |
| 26 |353913 | 210 | 250 | BALL VALVE 1/2" #70-103-10 | EA | 1.0000 |
| 26 |354327 | 220 | 250 | NIPPLES BRASS 1/2" X 2" | EA | 1.0000 |
| 26 |354867 | 160 | 250 | ELBOW PVC 1 1/2" SLIP X MPT | EA | 1.0000 |
| 26 |355335 | 140 | 250 | BARB, PIPE TO HOSE PVC #8002 (3/4") | EA | 1.0000 |
| 26 |355425 | 30 | 250 | BARB 1/2" MPT X 3/4" HB SHIELDS WHITE | EA | 1.0000 |
| 26 |355479 | 120 | 250 | ADAPTER 1 1/2" X 1 1/2" #341513 | EA | 2.0000 |
| 26 |355803 | 250 | 150 | ELBOW 90 DEG. STR/ELL BR. 3/4" | EA | 1.0000 |
| 31 |356217 | 50 | 200 | DECK PLATE WASTE BROWN | EA | 1.0000 |
| 26 |358035 | 60 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 9.5000 |
| 26 |358413 | 90 | 250 | HOSE, SANI, 1.5" *LOW PERM* 104-1126 | FT | 11.0000 |
| 26 |358413 | 110 | 250 | HOSE, SANI, 1.5" *LOW PERM* 104-1126 | FT | 4.0000 |
| 28 |656700 | 70 | 300 | WIRE, DUPLEX, UL BOAT CABLE 16/2 BL | FT | 30.0000 |
| |BD030085 | 91 | 5 | H460-GALLEY DRAIN PLUMBING | EA | 1.0000 |
| 26 |285250 | 10 | 560 | LABEL, THRUHULL, "GALLEY DISCHARGE" | EA | 1.0000 |
| 26 |314430 | 150 | 200 | CHAFE GUARD, PLASTIC, 2" 450 | EA | 2.0000 |
| 43 |351015 | 140 | 250 | SINK, NY1019-12 DOUBLE | EA | 1.0000 |
| 43 |351033 | 130 | 250 | DRAIN, 1 1/4" NY1039-00 | EA | 2.0000 |
| 43 |351069 | 20 | 250 | DRAIN, SINK, 90DEG. #101041-00 | EA | 2.0000 |
| 26 |352653 | 30 | 250 | BRASS THRU HULL FITTING 1 1/4" #65- | EA | 1.0000 |
| 26 |353391 | 40 | 250 | HOSE CLAMP #16 | EA | 12.0000 |
| 26 |353967 | 50 | 250 | BALL VALVE 1 1/4" #70-106-10 | EA | 1.0000 |
| 26 |354111 | 60 | 250 | BARB, HOSE, BRASS, 1 1/4" | EA | 1.0000 |
| 26 |354759 | 160 | 250 | STREET ELBOW 90DEG BRASS 1 1/4" | EA | 1.0000 |
| 26 |354795 | 70 | 250 | TEE, PVC HOSE BARB 1 1/4" | EA | 1.0000 |
| 26 |358053 | 80 | 250 | HOSE SHIELDVAC 1 1/4" (#145-1140) | FT | 2.5000 |
| 26 |358053 | 90 | 250 | HOSE SHIELDVAC 1 1/4" (#145-1140) | FT | 3.0000 |
| 26 |358053 | 110 | 250 | HOSE SHIELDVAC 1 1/4" (#145-1140) | FT | 6.0000 |
| 26 |358125 | 120 | 250 | HOSE CUFFS 1 1/4" (#142-1140) | EA | 6.0000 |
| |BD030095 | 100 | 5 | H460-ICE BOX DRAIN PLUMBING | EA | 1.0000 |
| 11 |350659 | 40 | 250 | SINK DRAIN, 1" WHITE PLASTIC | EA | 1.0000 |
| 26 |353373 | 30 | 250 | HOSE CLAMP #12 | EA | 2.0000 |
| 26 |358071 | 10 | 250 | HOSE SHIELDVAC 1" (#140-1000) LH | FT | 7.0000 |
| 26 |358107 | 20 | 250 | HOSE CUFFS 1" (#100-1000) | EA | 2.0000 |
| |BD030110 | 110 | 5 | H460-PORT LOCKER | EA | 1.0000 |
| 31 |355245 | 20 | 250 | THRU HULL 3/4" #323-S STR. PLAS | EA | 1.0000 |
| |BD030125 | 130 | 5 | H460-AFT VANITY DRAIN | EA | 1.0000 |
| 26 |286280 | 10 | 560 | LABEL, THRUHULL, VANITY DISCHARGE | EA | 1.0000 |
| 26 |314440 | 100 | 200 | CHAFE GUARD, PLASTIC, 3" H450 | EA | 1.0000 |

HUNTER
 H460 WATER DRAINAGE SYSTEM PARTS LIST
 48080590 NONE
 3/25/80
 ENGINEERING DEPT.

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|--|----|--------------|
| 26 | ...353931 | 70 | 250 | BALL VALVE 3/4" #70-104-10 | EA | 1.0000 |
| 26 | ...354057 | 80 | 250 | BARB, HOSE, BRASS, 3/4" | EA | 1.0000 |
| 26 | ...358035 | 100 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 9.0000 |
| 26 | ...358035 | 110 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 7.0000 |
| 26 | ...358035 | 120 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 8.0000 |
| 26 | ...358413 | 150 | 250 | HOSE, SANI, 1.5" "LOW PERM" 104-1126 | FT | 1.0000 |
| 26 | ...358413 | 170 | 250 | HOSE, SANI, 1.5" "LOW PERM" 104-1126 | FT | 6.0000 |
| 27 | ...464070 | 130 | 600 | HEX HD 5/16 X 1 1/2" S/S L/B | EA | 4.0000 |
| 27 | ...469610 | 140 | 600 | WASHER NEO 3/8" S/S W/N/B 7/8 O | EA | 4.0000 |
| | ..BD030115 | 20 | 5 | H460-AFT HEAD PLUMBING | EA | 1.0000 |
| 26 | ...286430 | 10 | 560 | LABEL, THROUGHULL, "HEAD PICKUP" | EA | 1.0000 |
| 26 | ...314430 | 140 | 200 | CHAPE GUARD, PLASTIC, 2" 450 | EA | 1.5000 |
| 26 | ...350295 | 160 | 250 | TOLIET, MANUAL "HOUSEHOLD" #29120-000 | EA | 1.0000 |
| 26 | ...352293 | 30 | 250 | VENTED LOOP, W/VALVE, 3/4" PVC | EA | 1.0000 |
| 26 | ...352617 | 40 | 250 | BRASS THRU HULL FITTING 3/4" #65-BN | EA | 1.0000 |
| 26 | ...353355 | 50 | 250 | HOSE CLAMP #10 | EA | 7.0000 |
| 26 | ...353931 | 60 | 250 | BALL VALVE 3/4" #70-104-10 | EA | 1.0000 |
| 26 | ...354057 | 70 | 250 | BARB, HOSE, BRASS, 3/4" | EA | 1.0000 |
| 26 | ...355821 | 150 | 250 | ELBOW 90 DEG. STR/ELL BR. 1" | EA | 1.0000 |
| 26 | ...358035 | 80 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 9.0000 |
| 26 | ...358035 | 90 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 7.0000 |
| 26 | ...358035 | 100 | 250 | HOSE, WHITE, 3/4"D. SANTI HOSE, 148-03 | FT | 9.0000 |
| 27 | ...464070 | 110 | 600 | HEX HD 5/16 X 1 1/2" S/S L/B | EA | 4.0000 |
| 27 | ...469530 | 130 | 600 | WASHER LOCK 5/16" S/S L/H | EA | 4.0000 |
| 27 | ...469610 | 120 | 600 | WASHER NEO 3/8" S/S W/N/B 7/8 O | EA | 4.0000 |
| | ..BD040330 | 90 | 5 | H460-LPG MOUNTING | EA | 1.0000 |
| 41 | ..307150 | 40 | 550 | RAIL, GALLEY STOVE, TO PRINT, H376 | EA | 1.0000 |
| 41 | ..307330 | 120 | 550 | STOVE SPLASH GUARD S/S H-35.5 | EA | 1.0000 |
| 41 | ..316810 | 50 | 250 | STOVE, 3BURNER, LPG, 60351H, | EA | 1.0000 |
| 56 | ..316933 | 60 | 250 | PANEL ONLY - LPG | EA | 1.0000 |
| 34 | ..316940 | 70 | 250 | REGULATOR, WALLMT, W/FITTINGS | EA | 1.0000 |
| 26 | ..316950 | 130 | 300 | HOSE LPG 3/4" 25' #93162 | EA | 1.0000 |
| 96 | ..317040 | 80 | 250 | TANK, ALUM 10#, VERTICAL DOT | EA | 2.0000 |
| 37 | ..466670 | 100 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 6.0000 |
| 37 | ..466790 | 90 | 600 | P/H PHIL #5 X 1/2" S/S T/A | EA | 5.0000 |
| 43 |350655 | 20 | 250 | SINK DRAIN #SW2 90DEGREE #927014 | EA | 1.0000 |
| 26 |352635 | 30 | 250 | BRASS THRU HULL FITTING 1" #65-BN7- | EA | 1.0000 |
| 26 |353373 | 40 | 250 | HOSE CLAMP #12 | EA | 2.0000 |
| 26 |353877 | 50 | 250 | BALL VALVE (1") BRASS #70-105-10 | EA | 1.0000 |
| 26 |354075 | 60 | 250 | BARB, HOSE, BRASS, 1" | EA | 1.0000 |
| 26 |358071 | 80 | 250 | HOSE SHIELDVAC 1" (140-1000) LH | FT | 9.0000 |
| 26 |358107 | 90 | 250 | HOSE CUFFS 1" (100-1000) | EA | 2.0000 |
| |BD030205 | 131 | 5 | MANUAL BILGE PUMP | EA | 1.0000 |
| 32 |303790 | 50 | 200 | SPRING CLAMP #502-1 | PR | 1.0000 |
| 31 |352185 | 60 | 250 | PUMP BILGE THRU/DECK #D23604/BP1740 | EA | 1.0000 |
| 26 |352851 | 70 | 250 | NAVY PUMP STRAINER #722 | EA | 1.0000 |
| 26 |353427 | 80 | 250 | HOSE CLAMP #24 | EA | 4.0000 |
| 56 |353427 | 90 | 250 | HOSE CLAMP #24 | EA | 4.0000 |
| 26 |354345 | 100 | 250 | BRASS NIPPLE 1 1/4" (CLOSE) | EA | 1.0000 |
| 34 |355029 | 160 | 250 | ELL. 90 DEG. (PVC) 1 1/2" FPT | EA | 1.0000 |
| 31 |355299 | 110 | 250 | THRU HULL 1 1/2" #328-8 PVC | EA | 1.0000 |

HI INTER
 H460 WATER DRAINAGE SYSTEM PARTS LIST CONT
 4000059H
 NONE

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|---|----|--------------|
| 26 |357981 | 120 | 250 | HOSE SHIELDVAC 1 1/2" (145-1120) | FT | 25.0000 |
| 25 |357981 | 130 | 250 | HOSE SHIELDVAC 1 1/2" (145-1120) | FT | 3.0000 |
| 26 |358143 | 140 | 250 | HOSE CUFFS 1 1/2" (142-1120) | EA | 2.0000 |
| 26 |358143 | 150 | 250 | HOSE CUFFS 1 1/2" (142-1120) | EA | 2.0000 |
| 32 |465210 | 30 | 600 | NUT LOCK 10-24 S/S L/N | EA | 4.0000 |
| 32 |466030 | 20 | 600 | O/H PHIL 10-24 X 2" S/S M/S | EA | 4.0000 |
| 32 |466930 | 10 | 600 | P/H PHIL #8 X 1/2" S/S T/A | EA | 4.0000 |
| 32 |469170 | 40 | 600 | WASHER FINISH #10 F/W S/S | EA | 4.0000 |
| |BD030215 | 132 | 5 | SCUPPER DRAIN | EA | 1.0000 |
| |BD030235 | 170 | 5 | LPG BOX DRAIN | EA | 1.0000 |
| 26 |353157 | 40 | 250 | FUEL VENT #503-4 (WATER) | EA | 2.0000 |
| 34 |353355 | 10 | 250 | HOSE CLAMP #10 | EA | 4.0000 |
| 34 |355191 | 20 | 250 | THRU HULL 3/4" 90% | EA | 2.0000 |
| 26 |355425 | 50 | 250 | BARB 1/2" MPTX 3/4" HB SHIELDS WHITE | EA | 2.0000 |
| 34 |357891 | 30 | 250 | HOSE WATER 3/4" BLACK TYPE HEATER HW | FT | 2.0000 |
| 34 |357891 | 35 | 250 | HOSE WATER 3/4" BLACK TYPE HEATER HW | FT | 1.0000 |
| |BD040001 | 30 | 5 | COMBINED PLUMBING/ELECTRICAL SUB AS | EA | 1.0000 |
| |BD040015 | 10 | 5 | H460-FWD SHOWER SUMP | EA | 1.0000 |
| 10 |256445 | 220 | 350 | ABS, SHOWER DRAIN, BEIGE | EA | 2.0000 |
| 10 |309575 | 10 | 350 | ABS, BEIGE, .125X43"X96" | SF | 0.5000 |
| 27 |257570 | 10 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 2.0000 |
| 26 |350421 | 20 | 250 | COVER, DRAIN, S/S 4" W/SCREWS H280 | EA | 1.0000 |
| 26 |350655 | 30 | 250 | SINK DRAIN #SW2 90DEGREE #907014 | EA | 1.0000 |
| 26 |352023 | 40 | 210 | SUMP PUMP, 4137-1 | EA | 1.0000 |
| 26 |353355 | 50 | 250 | HOSE CLAMP #10 | EA | 2.0000 |
| 26 |353373 | 60 | 250 | HOSE CLAMP #12 | EA | 2.0000 |
| 26 |355191 | 210 | 250 | THRU HULL 3/4" 90% | EA | 1.0000 |
| 26 |358017 | 80 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 10.5000 |
| 26 |358071 | 90 | 250 | HOSE SHIELDVAC 1" (140-1000) LH | FT | 2.5000 |
| 26 |358089 | 100 | 250 | HOSE CUFFS 3/4" (142-0340) | EA | 2.0000 |
| 26 |358107 | 110 | 250 | HOSE CUFFS 1" (100-1000) | EA | 2.0000 |
| 27 |466670 | 120 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 15.0000 |
| 27 |654500 | 130 | 300 | WIRE BLACK SC-12 GAUGE | FT | 15.0000 |
| 28 |656400 | 150 | 300 | CONDUIT 3/8" 125-0380 | FT | 5.0000 |
| |BD040020 | 20 | 5 | H460-STB FWD SHOWER DRAIN | EA | 1.0000 |
| 26 |350421 | 3 | 250 | COVER, DRAIN, S/S 4" W/SCREWS H280 | EA | 1.0000 |
| 26 |350655 | 20 | 250 | SINK DRAIN #SW2 90DEGREE #907014 | EA | 1.0000 |
| 26 |353373 | 30 | 250 | HOSE CLAMP #12 | EA | 2.0000 |
| 26 |358071 | 40 | 250 | HOSE SHIELDVAC 1" (140-1000) LH | FT | 6.0000 |
| 26 |358107 | 50 | 250 | HOSE CUFFS 1" (100-1000) | EA | 2.0000 |
| 27 |461050 | 10 | 600 | P/H PHIL #10 X 1" S/S T/A | EA | 3.0000 |
| |BD040025 | 30 | 5 | H460-FWD HEAD MACERATOR | EA | 1.0000 |
| 56 |250425 | 150 | 300 | PANEL, SWITCH, MOMENT. *MACERATOR* 30AM | EA | 1.0000 |
| 27 |257552 | 10 | 600 | TERMINAL C1210-SC 180/LB YELLOW | EA | 2.0000 |
| 26 |286310 | 20 | 560 | LABEL, THRUHULL, *MACERATOR DISCHARGE | EA | 1.0000 |
| 26 |351969 | 30 | 250 | PUMP MACERATOR #18590-500 L-400 | EA | 1.0000 |
| 26 |352635 | 40 | 250 | BRASS THRU HULL FITTING 1" #65-BN7- | EA | 1.0000 |

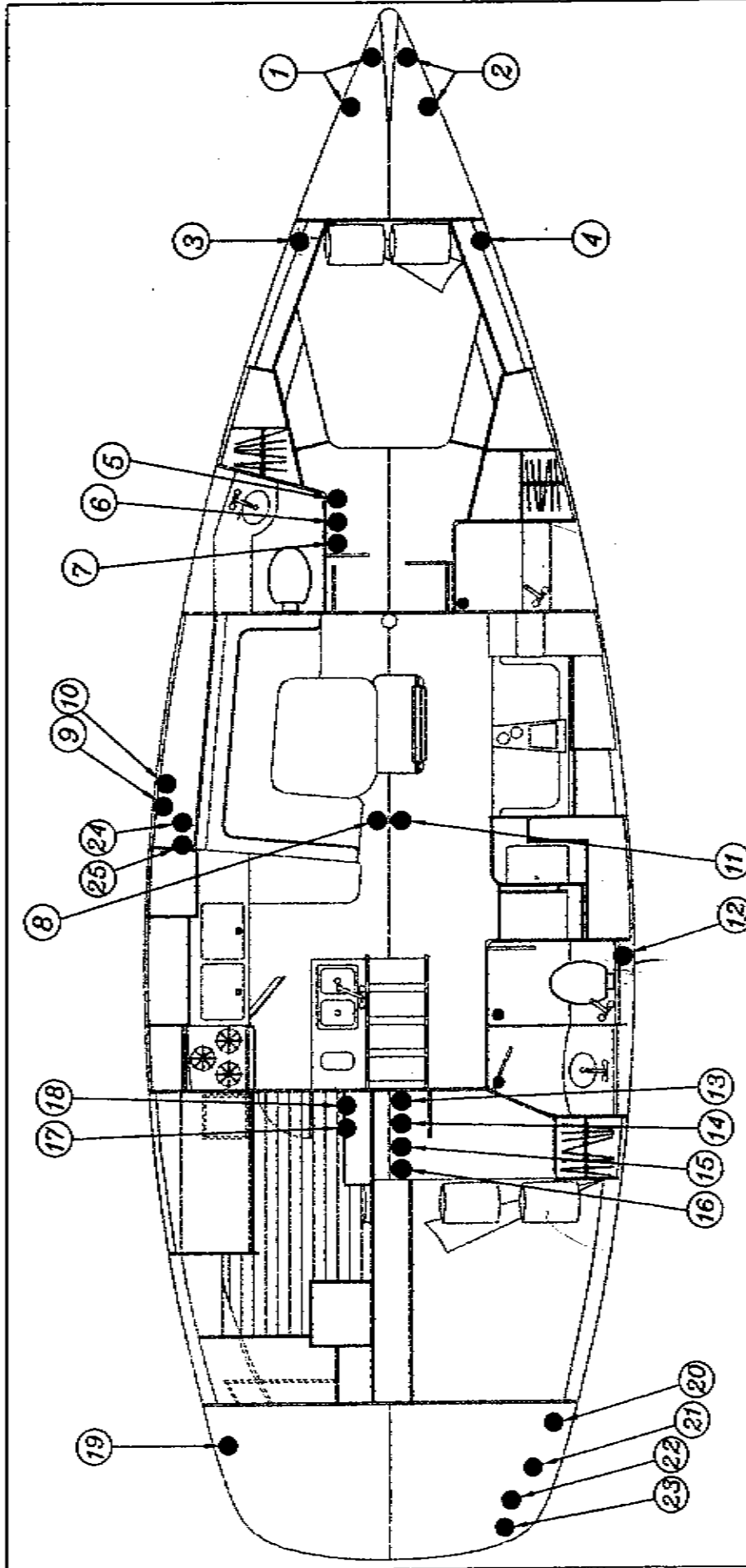
HUNTER
 H460 WATER DRAINAGE SYSTEM PARTS LIST CONT
 NAME
 48080081
 3/25/09
 ENGINEERING DEPT.

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|--|----|--------------|
| 26 |353391 | 50 | 250 | HOSE CLAMP #16 | EA | 3.0000 |
| 26 |353427 | 60 | 250 | HOSE CLAMP #24 | EA | 4.0000 |
| 26 |353877 | 70 | 250 | BALL VALVE (1") BRASS #70-105-10 | EA | 1.0000 |
| 26 |354075 | 80 | 250 | BARB, HOSE, BRASS, 1" | EA | 1.0000 |
| 26 |354813 | 170 | 250 | ELBOW - PVC - 1 1/2 SLIP X 1 1/2 FP | EA | 1.0000 |
| 26 |355479 | 180 | 250 | ADAPTER 1 1/2" X 1 1/2" #341513 | EA | 1.0000 |
| 26 |358197 | 100 | 250 | HOSE SHIELD FLEX 1" TYPE 100-0346 | FT | 4.0000 |
| 27 |466570 | 110 | 600 | P/H PHIL #10 X 1" S/S T/A | EA | 4.0000 |
| 27 |654400 | 120 | 300 | WIRE BLACK SC-10 GAUGE | FT | 45.0000 |
| 27 |655800 | 130 | 300 | WIRE BROWN W/WHITE STRIPE 10GA. TINN | FT | 45.0000 |
| |BD040045 | 41 | 5 | MAIN BILGE PUMP | EA | 1.0000 |
| 26 |253916 | 10 | 200 | SWITCH, BILGE, AUTO. | EA | 1.0000 |
| 27 |257570 | 20 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 3.0000 |
| 26 |352318 | 140 | 150 | THRU-HULL, CHR, 1", 65-CN7-51 | EA | 1.0000 |
| 26 |353373 | 30 | 250 | HOSE CLAMP #12 | EA | 2.0000 |
| 26 |353643 | 40 | 250 | BILGE PUMP #02 1500GPH | EA | 1.0000 |
| 26 |355353 | 160 | 250 | BARB, PIPE TO HOSE, PVC #8003 (1") | EA | 1.0000 |
| 26 |358071 | 60 | 250 | HOSE SHIELD VAC 1" (140-1000) LH | FT | 14.0000 |
| 26 |358107 | 70 | 250 | HOSE CUFFS 1" (100-1000) | EA | 2.0000 |
| 27 |461850 | 110 | 600 | P/H PHIL #8 X 3/4" S/S T/A | EA | 2.0000 |
| 27 |466670 | 120 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 12.0000 |
| 27 |654500 | 80 | 300 | WIRE BLACK SC-12 GAUGE | FT | 22.0000 |
| 27 |655600 | 90 | 300 | WIRE BROWN W/ORANGE STRIPE 12GA. | FT | 22.0000 |
| 27 |655700 | 170 | 300 | WIRE BROWN W/RED STRIPE 12 GA | FT | 22.0000 |
| |BD040065 | 50 | 5 | H460 - AFT HEAD MACERATOR COMPONENT | EA | 1.0000 |
| 56 |250425 | 150 | 300 | PANEL, SWITCH, MOMENT. *MACERATOR*30AM | EA | 1.0000 |
| 27 |257552 | 10 | 600 | TERMINAL C1210-SC 180/LB YELLOW | EA | 2.0000 |
| 26 |286310 | 20 | 560 | LABEL, THRUHULL, *MACERATOR DISCHARGE | EA | 1.0000 |
| 26 |351969 | 30 | 250 | PUMP MACERATOR #18590-500 L-400 | EA | 1.0000 |
| 26 |352635 | 40 | 250 | BRASS THRU HULL FITTING 1" #65-3N7- | EA | 1.0000 |
| 26 |353391 | 50 | 250 | HOSE CLAMP #16 | EA | 3.0000 |
| 26 |353427 | 60 | 250 | HOSE CLAMP #24 | EA | 4.0000 |
| 26 |353877 | 70 | 250 | BALL VALVE (1") BRASS #70-105-10 | EA | 1.0000 |
| 26 |354075 | 80 | 250 | BARB, HOSE, BRASS, 1" | EA | 1.0000 |
| 26 |354867 | 160 | 250 | ELBOW PVC 1 1/2" SLIP X MPT | EA | 1.0000 |
| 26 |358197 | 100 | 250 | HOSE SHIELD FLEX 1" TYPE 100-0346 | FT | 4.0000 |
| 27 |466570 | 110 | 600 | P/H PHIL #10 X 1" S/S T/A | EA | 4.0000 |
| 27 |654400 | 120 | 300 | WIRE BLACK SC-10 GAUGE | FT | 28.0000 |
| 27 |655800 | 130 | 300 | WIRE BROWN W/WHITE STRIPE 10GA. TINN | FT | 28.0000 |
| |BD040075 | 60 | 5 | H460-AFT SHOWER SUMP | EA | 1.0000 |
| 10 |256445 | 220 | 350 | ABS, SHOWER DRAIN, BEIGE | EA | 2.0000 |
| 10 |309575 | 10 | 350 | ABS, BEIGE, .125X48"X96" | SF | 0.5000 |
| 27 |257570 | 10 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 3.0000 |
| 26 |350421 | 20 | 250 | COVER, DRAIN, S/S 4" W/SCREWS H280 | EA | 2.0000 |
| 26 |350655 | 30 | 250 | SINK DRAIN #SW2 90DEGREE #907014 | EA | 2.0000 |
| 26 |352023 | 40 | 210 | SUMP PUMP, 4137-1 | EA | 1.0000 |
| 26 |352317 | 200 | 150 | THRU-HULL, 3/4"CHR, 65-CN7-50 | EA | 1.0000 |
| 26 |353355 | 50 | 250 | HOSE CLAMP #10 | EA | 2.0000 |
| 26 |353373 | 60 | 250 | HOSE CLAMP #12 | EA | 6.0000 |

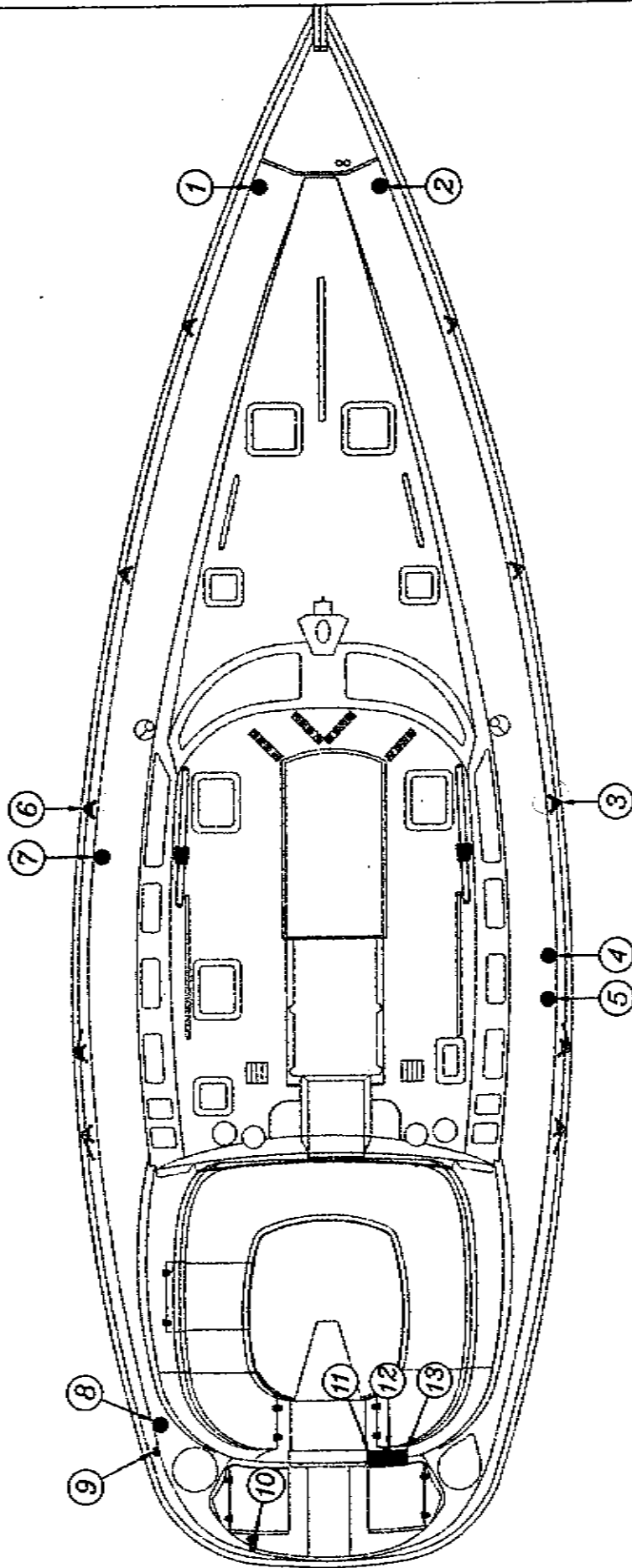
HUNTER
 H460 WATER DRAINAGE SYSTEM PARTS LIST CONT.
 DRAWING NO. 4600038J
 DATE 3/25/89
 ENGINEERING DEPT.

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|-------------|------|-----|-------------------------------------|----|--------------|
| 26 |353931 | 190 | 250 | BALL VALVE 3/4" #70-104-10 | EA | 1.0000 |
| 26 |355335 | 170 | 250 | BARB, PIPE TO HOSE PVC #8002 (3/4") | EA | 1.0000 |
| 26 |355803 | 180 | 150 | ELBOW 90 DEG.STR/KLL BR. 3/4" | EA | 1.0000 |
| 26 |355821 | 160 | 250 | ELBOW 90 DEG.STR/KLL BR. 1" | EA | 1.0000 |
| 26 |358017 | 80 | 250 | HOSE SHIELDVAC 3/4" (140-0340) | FT | 15.0000 |
| 26 |358071 | 90 | 250 | HOSE SHIELDVAC 1" (140-1000) LH | FT | 2.0000 |
| 26 |358071 | 130 | 250 | HOSE SHIELDVAC 1" (140-1000) LH | FT | 3.0000 |
| 26 |358071 | 140 | 250 | HOSE SHIELDVAC 1" (140-1000) LH | FT | 7.0000 |
| 26 |358089 | 100 | 250 | HOSE CUFFS 3/4" (142-0340) | EA | 2.0000 |
| 26 |358107 | 120 | 250 | HOSE CUFFS 1" (100-1000) | EA | 6.0000 |
| 27 |461850 | 110 | 600 | F/H PHIL #8 X 3/4" S/S T/A | EA | 2.0000 |
| 26 |P4636 | 210 | 999 | TEE, 1" PVC, HOSE BARB H46 | EA | 1.0000 |

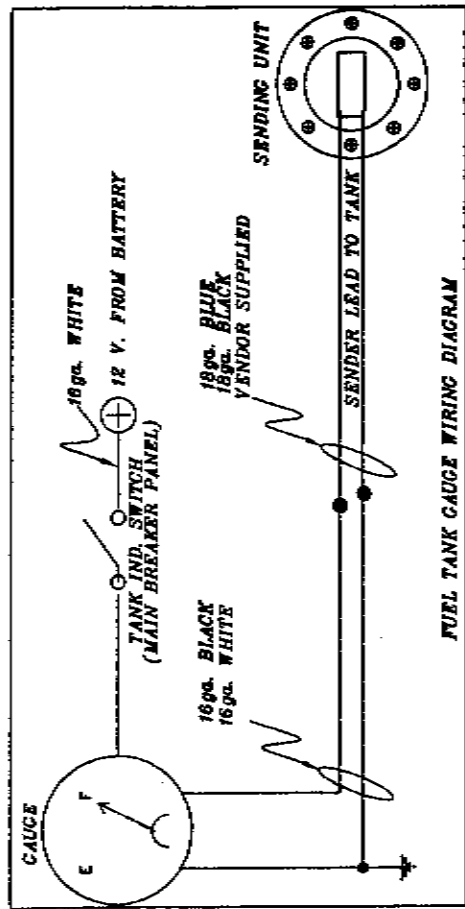
HUNTER
 H460 WATER DRAINAGE SYSTEM PARTS LIST CONT.
 4608059K NONE
 ENGINEERING DEPT. 3/25/99



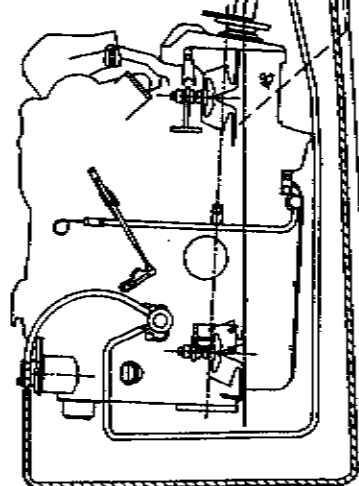
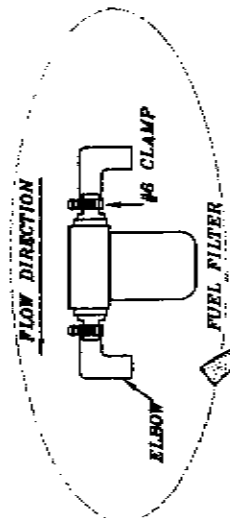
- | | |
|---------------------------------|---------------------------------------|
| 1. PORT ANCHOR WELL DRAIN | 14. AFT VANITY DRAIN DISCHARGE |
| 2. STARBOARD ANCHOR WELL DRAIN | 15. AFT HEAD RAW WATER PICK UP |
| 3. FWD WASTE TANK VENT | 16. AFT MACERATOR DISCHARGE |
| 4. FWD WATER TANK VENT | 17. ENGINE RAW WATER PICKUP |
| 5. FWD MACERATOR DISCHARGE | 18. GALLEY DRAIN DISCHARGE |
| 6. FWD VANITY DRAIN DISCHARGE | 19. PORT LFG LOCKER DRAIN |
| 7. FWD HEAD RAW WATER PICK UP | 20. STBD LFG LOCKER DRAIN |
| 8. A.C RAW WATER PICK UP | 21. AFT AC RAW WATER DISCHARGE |
| 9. BILGE PUMP DISCHARGE | 22. ENGINE EXHAUST DISCHARGE |
| 10. SUMP PUMP DISCHARGE | 23. GENERATOR EXHAUST DISCHARGE |
| 11. REFRIG. RAW WATER PICK UP | 24. FWD AC RAW WATER DISCHARGE |
| 12. AFT WASTE TANK VENT | 25. REFRIGERATION RAW WATER DISCHARGE |
| 13. GENERATOR RAW WATER PICK UP | |



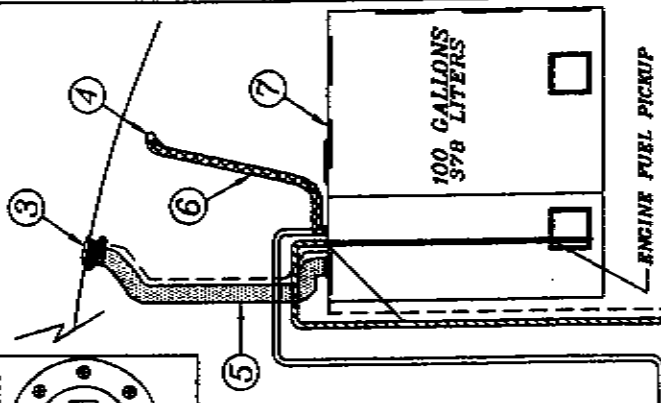
- | | |
|---|--|
| 1. FWD WASTE TANK PUMP OUT LOCATION | 7. PORT WATER TANK FILL LOCATION |
| 2. FWD WATER TANK FILL LOCATION | 8. FUEL TANK FILL LOCATION |
| 3. STBD. WATER TANK VENT LOCATION (VENTED STANCHION) | 9. FUEL TANK FILL VENT LOCATION |
| 4. STBD. WATER TANK FILL LOCATION | 10. "SHORE" WATER INLET VALVE LOCATION |
| 5. AFT HOLDING TANK PUMP OUT LOCATION | 11. SHORE POWER # 1 INLET LOCATION |
| 6. PORT WATER TANK VENT LOCATION (VENTED STANCHION) | 12. SHORE POWER #2 INLET LOCATION |
| | 13. TV COAX/PHONE INLET LOCATION |



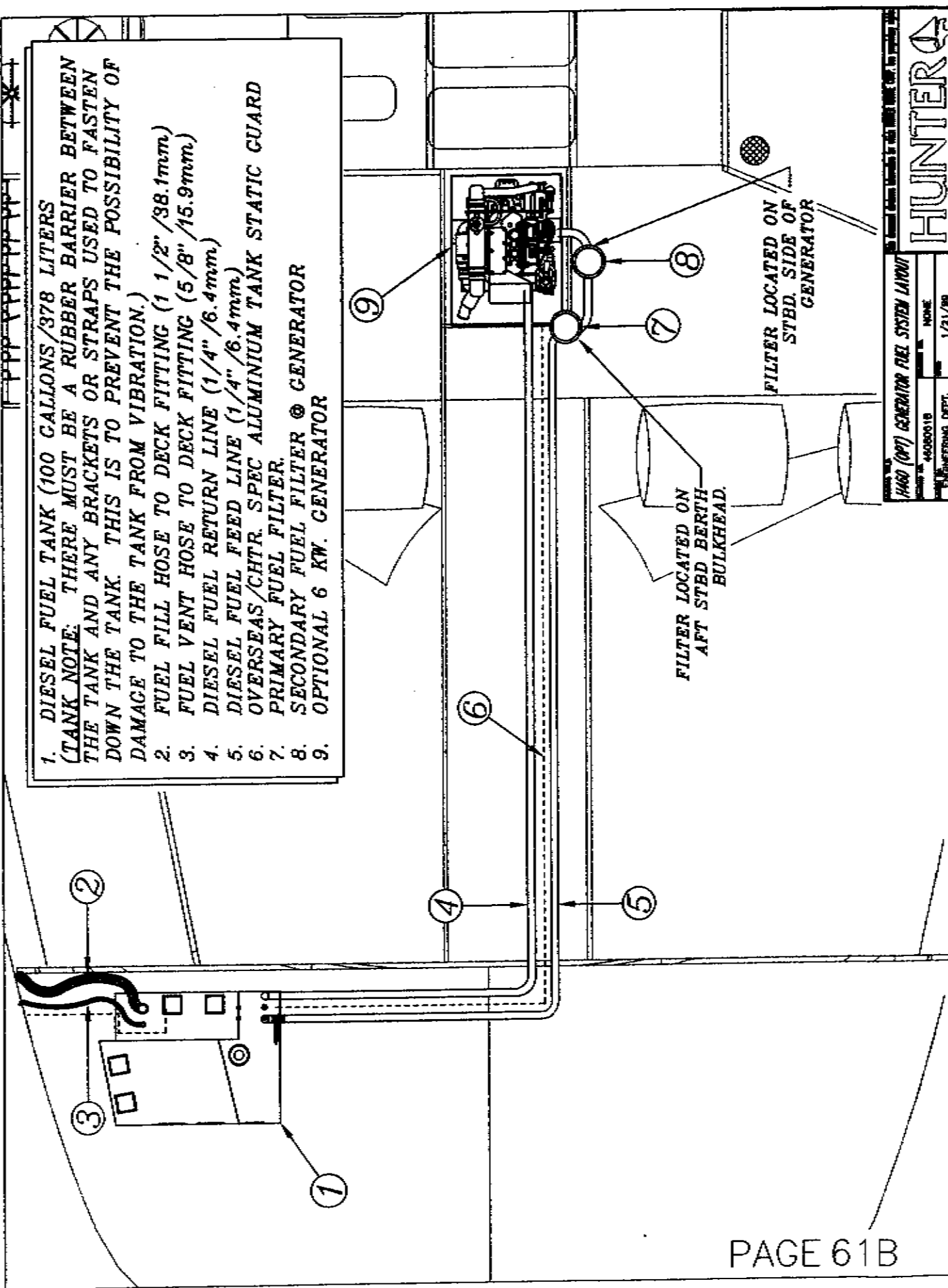
1. ENGINE FUEL FILTER
2. ENGINE FUEL HOSE
3. DIESEL FILL (DECK FITTING)
4. DIESEL TANK VENT (HULL FITTING)
5. DIESEL FILL HOSE
6. DIESEL VENT HOSE
7. TANK SENDING UNIT



- FUEL FEED LINE 6/16" (7.9 mm)
- FUEL RETURN 6/16" (7.9 mm)
- FUEL VENT HOSE 3/4" (19.1 mm)
- FUEL FILL HOSE 1 1/2" (38.1 mm)
- OVERSEAS/CHTR SPEC ALUM. TANK STATIC GND.



1. DIESEL FUEL TANK (100 GALLONS/378 LITERS
(TANK NOTE: THERE MUST BE A RUBBER BARRIER BETWEEN THE TANK AND ANY BRACKETS OR STRAPS USED TO FASTEN DOWN THE TANK. THIS IS TO PREVENT THE POSSIBILITY OF DAMAGE TO THE TANK FROM VIBRATION.)
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 ALUMINIUM TANK STATIC GUARD
7. PRIMARY FUEL FILTER.
8. SECONDARY FUEL FILTER @ GENERATOR
9. OPTIONAL 6 KW. GENERATOR



FILTER LOCATED ON AFT STBD BERTH BULKHEAD.

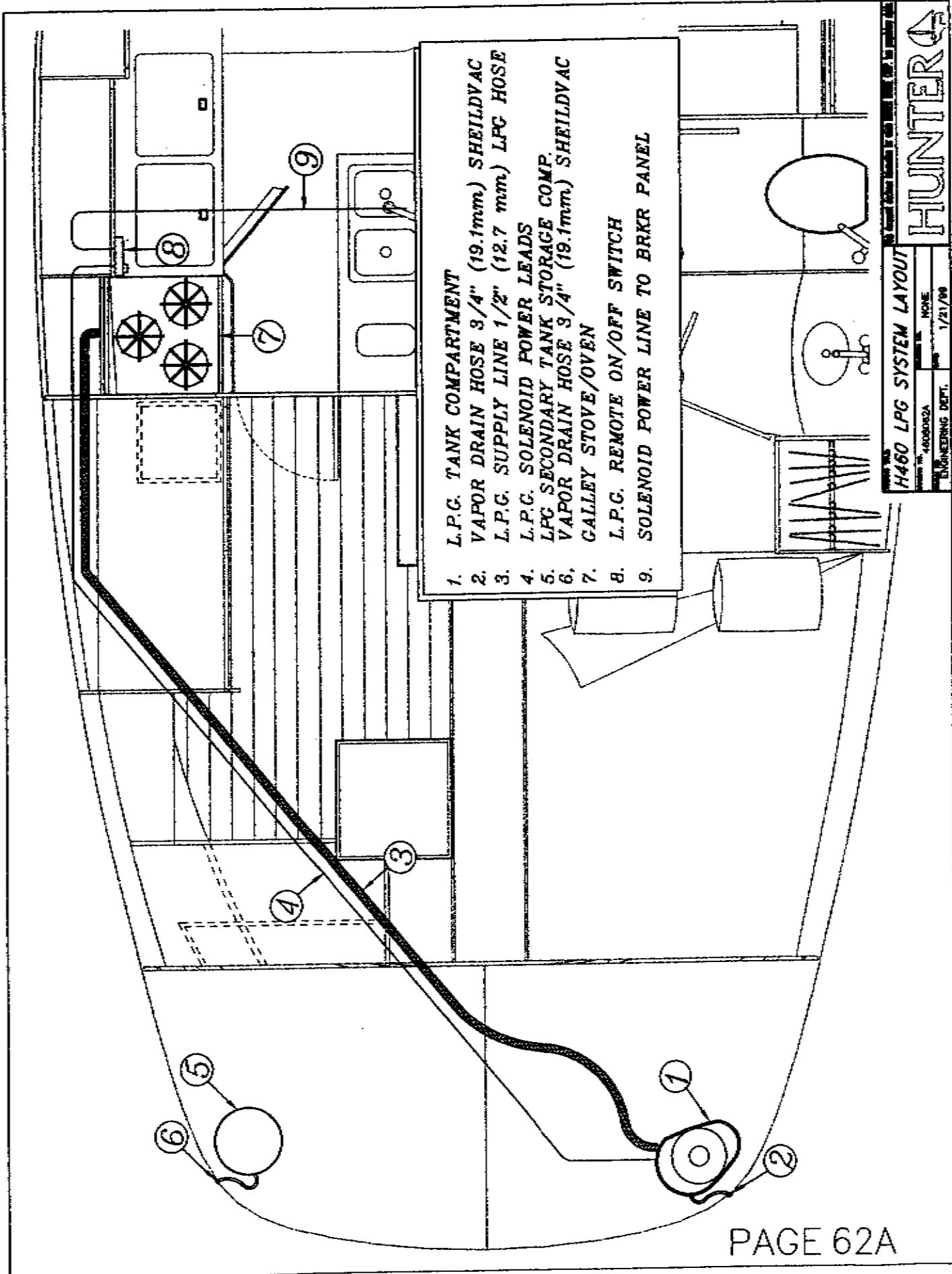
FILTER LOCATED ON STBD. SIDE OF GENERATOR

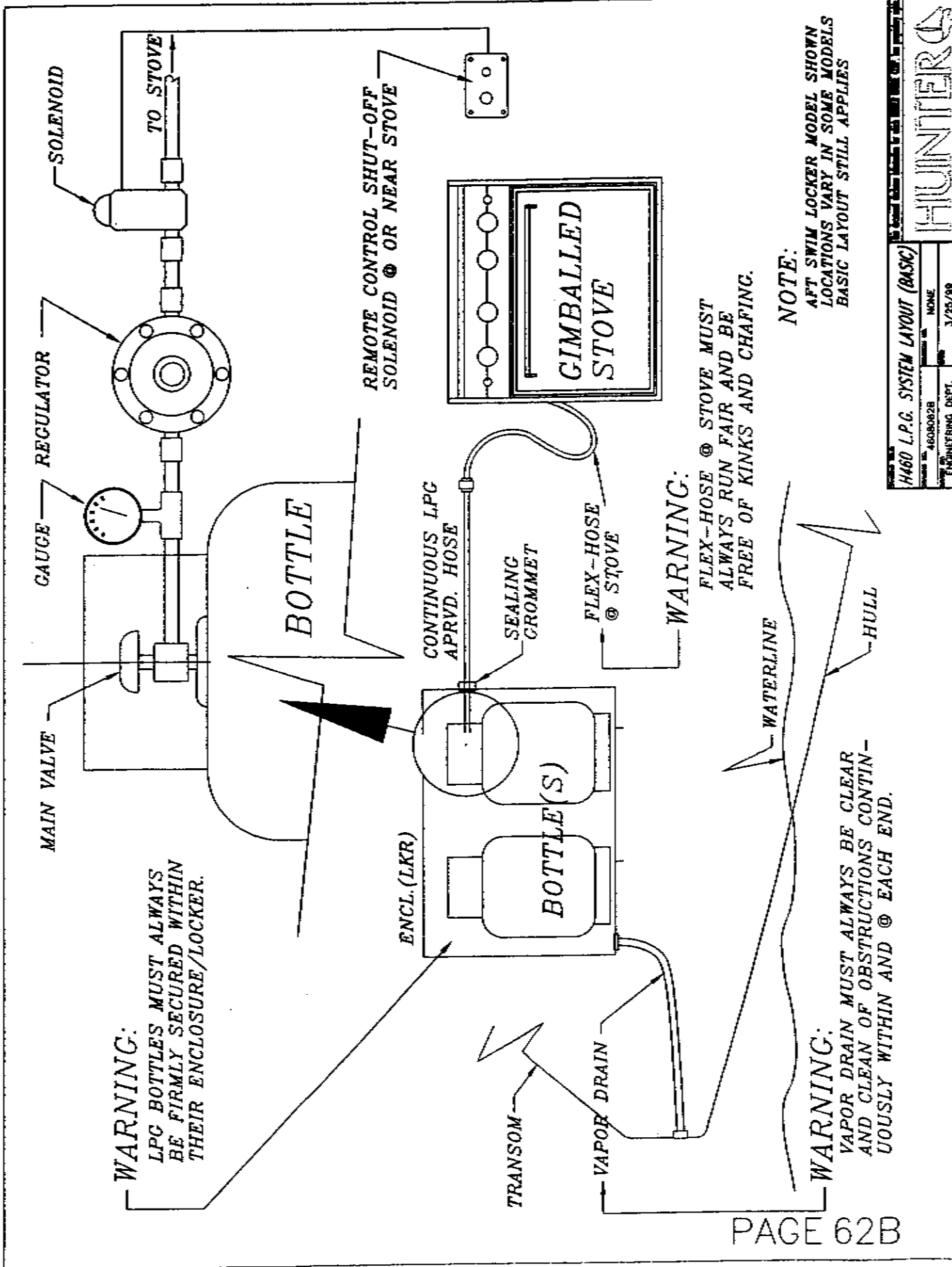
11460 (OPT) GENERATOR FUEL SYSTEM LAYOUT

4408001B NONE 1/21/80

ENGINEERING DEPT.

HUNTER





NOTE TO CONSUMER

THE FOLLOWING PAGES PROVIDE DETAILED INFORMATION, SCHEMATICS ETC. PERTAINING TO THE H460 STANDARD ELECTRICAL SYSTEMS AS WELL AS THE OPTIONAL ELECTRICAL SYSTEMS.

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

H460 ELECTRICAL SYSTEM CONTENTS

PAGES 63A-2 THRU 63H CONTAINS A.C. POWER SYSTEMS (110 V.A.C.) (220 V.A.C. ON OVERSEAS MODELS)

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| SELECTOR SWITCH PANELS..... | PAGES 63A-8 & 63A-9 |
| POWER SYSTEMS TROUBLESHOOTING GUIDE | PAGES 63A-10 THRU 63A-13 |
| A.C. POWER PANEL SCHEMATICS: STD AND W/OPT. GENERATOR..... | PAGES 63A-14 & 63A-15 |
| A.C. POWER WIRING..... | PAGES 63B & 63C |
| OPTIONAL AIR CONDITIONING SYSTEM | PAGES 63D-1 THRU 63D-4 |
| OPTIONAL GENERATOR SYSTEM | PAGES 63E-1 THRU 63E-3 |
| INVERTER / CHARGER SYSTEM | PAGES 63F-1 THRU 63F-3 |
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| OPTIONAL WASHER/DRYER SYSTEM..... | PAGE 63H |

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

| | |
|--|------------------------|
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| 12 VOLT DECK WIRING | PAGES 64C |
| OPTIONAL WINDLASS | PAGES 64D-1 & 64D-2 |
| OPTIONAL ELECTRIC HALYARD | PAGES 64E-1 & 64E-2 |
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| COURTESY LIGHT WIRING | PAGE 64G |
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| DC CONSUMER NOTES..... | PAGE 64I |

SHORE POWER WIRING.....PAGE 65A

ELECTRIC WIRING COLOR / GAUGE CHART.....PAGE 65B

H460 POWER SYSTEMS OPERATIONS PROCEDURES

| POWER SOURCE: | TO OPERATE: |
|---|---|
| <p>"D.C. MAIN"</p> | <p>TURN ON "D.C. MAIN" BRKR. ON D.C. SIDE OF MAIN DISTRIBUTION PANEL. IT IS NOT NECESSARY TO TURN ON THE INVERTER/DRAW SEL. SW. TO EITHER THE #1, #2, OR BOTH POSITION, THIS PORTION OF THE INV/DRAW SEL. SW. IS FOR THE CHARGING/INVERTING SYSTEM (AND ISOLATION OF) ONLY. IT IS NECESS. HOWEVER TO TURN ON EITHER THE "PANEL #1", OR "PANEL #2", BREAKER'S LOCATED ON THE BOTTOM OF THE INV/DRAW SEL. SW. PANEL TO PROVIDE POWER TO D.C. PANEL FROM EITHER THE HOUSE BATT. #1 OR HOUSE BATT. #2. (PANEL #1 "BREAKER" = HOUSE BATTERY #1) (PANEL #2 "BREAKER" = HOUSE BATTERY #2) IF NO POWER; CHECK 300 amp IN LINE FUSE AT EACH HOUSE BATTERY IN HOUSE BATTERY COMPARTMENT, AND/OR BATTERY CONNECTIONS IF NECESSARY.</p> |
| <p>SHORE POWER "A"</p> | <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: INVERTER CAUSES APPROX. 15 SECOND DELAY) 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 LOCATED IN HEADLINER STBD. AFT STRM. (ON 220V A.C. MODEL'S IN STBD. AFT SWIMSEAT LOCKER.)</p> |
| <p>SHORE POWER "B"</p> | <p>1. CONNECT SHORE POWER CABLE #2, TO SUPPLY POWER TO "B" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL</p> <p>2. TURN ON MAIN BREAKER ON SHORE POWER "B" SIDE OF PANEL</p> <p>3. "B" SIDE OF A.C. POWER MAIN DISTRIBUTION PANEL SHOULD NOW BE OPERABLE</p> <p>IF NO POWER TO "B" SIDE OF PANEL CHECK THE FOLLOWING:</p> <p>1. BREAKER AT DOCKSIDE POWER SUPPLY BOX</p> <p>2. BREAKER #2 LOCATED IN HEADLINER STBD. AFT STRM. (ON 220V A.C. MODEL'S IN STBD. AFT SWIMSEAT LOCKER.)</p> |
| <p>"INVERTER" WHEN IN INVERT MODE (CONVERTS 12V D.C. TO 110V A.C.)</p> | <p>1. CHOOSE HOUSE BATTERY/S TO DRAW POWER FROM BY TURNING INV/DRAW (HOUSE BATT'S) SEL. SWITCH TO 1,2, OR BOTH POSITION, LOCATED AFT END PORT SETTEE MAIN CABIN (THIS SW. PROVIDES ISOLATION CAPABILITY IN THE EVENT OF A BAD BATTERY. FOR EX. A DEAD CELL)</p> <p>2. TURN THE INVERTER REMOTE SWITCH (LOCATED AT NAV. STATION) TO THE "ON" POSITION, LOCATED AFT END PORT SETTEE IN MAIN CABIN.</p> <p>3. TURN ON DESIRED BREAKER (EX. OUTLETS) ON "A" SIDE OF A.C. MAIN DISTRIBUTION PANEL</p> <p>NOTE: IT TAKES 100.C. AMPS TO CREATE 1A.C. AMP. IF THE BATTERY VOLTAGE DROPS BELOW 10.5V. THE INVERTER WILL AUTOMATICALLY SHUT DOWN. (SEE "BATT. SEL. SW" & "METERS" ON PAGE 63A-6) NOTE: THE INVERTER WILL NOT POWER THE WATER HEATER OR AIR COND. SYSTEM, THE WATER HEATER IS POWERED BY "SHORE POWER A" CABLE OR OPT. GENERATOR. THE AIR COND'S ARE POWERED BY THE "SHORE POWER B" CABLE OR THE OPT. GENERATOR. NOTE: IF ANY OTHER APPLIANCES ARE TO BE USED WITH AIR COND'S RUNNING WHEN ON SHORE POWER BOTH "SHORE POWER A" AND "SHORE POWER B" CABLES MUST BE CONNECTED.</p> |
| <p>POWERS "A" SIDE OF A.C. PANEL ONLY WHEN INVERTING</p> | <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 INV/DRAW (HOUSE BATT'S) SELECTOR SWITCH TO THE #2 POSITION</p> <p>3. TURN THE #1 BREAKER LOCATED AT THE BOTTOM OF THE INV/DRAW SEL. SWITCH PANEL TO THE "ON" POSITION. AND TURN THE #2 BREAKER TO THE "OFF" POSITION.</p> <p>4. TURN INVERTER REMOTE SWITCH TO THE "ON" POSITION</p> <p>THIS PROCEDURE ALLOWS INVERTER TO SUPPLY 110V A.C. POWER TO "A" SIDE OF A.C. PANEL BY DRAWING POWER FROM HOUSE BATTERY #2. WHILE D.C. SIDE OF PANEL DRAWS POWER FROM HOUSE BATTERY #1. THIS ISOLATION PROCEDURE COMES IN HANDY FOR EXAMPLE WHEN USING A HIGHER AMPERAGE APPLIANCE OFF OF THE INVERTER THAT MIGHT CAUSE A MOMENTARY VOLTAGE DROP THAT COULD EFFECT EQUIP. (SUCH AS THE OPT. AUTOPILOT) THAT IS VOLTAGE SENSITIVE CAUSING THE UNIT TO TURN OFF. (THIS APPLIES WHEN THERE IS NO SHORE OR GENERATOR POWER BEING SUPPLIED TO PANEL.) THE INVERTER AUTOMATICALLY TRANSFERS SHORE POWER TO THE A.C. PANEL WHEN "SHORE POWER A" CABLE CONNECTED AND DOCKSIDE POWER PRESENT AT A.C. PANEL, BYPASSING THE INVERT MODE CAPABILITIES.</p> |
| <p>BUILT IN INVERTER- TRANSFER SWITCH.</p> | <p>1. TURN (START) BATTERY SWITCH TO THE "ON" POSITION</p> <p>2. CHECK SEA STRAINER AND OPEN RAW WATER SEACOCK. SEE PAGE 80 FOR LOCATIONS</p> <p>3. START GENERATOR (FOLLOW STARTING INSTRUCTIONS PROVIDED IN THE "GENERATOR MANUAL")</p> <p>3. RAISE SLIDE BAR ON "A" SIDE OF A.C. PANEL AND TURN GENERATOR BREAKER TO THE "ON" POSITION TO POWER "A" SIDE OF A.C. MAIN DISTRIBUTION PANEL.</p> <p>4. TO POWER "B" SIDE OF A.C. PANEL (TO USE AIR COND'S) RAISE SLIDE BAR ON "B" SIDE OF A.C. PANEL AND TURN PARALLEL BREAKER TO THE "ON" POSITION</p> |
| <p>OPTIONAL GENERATOR</p> | <p>1. TURN (START) BATTERY SWITCH TO THE "ON" POSITION</p> <p>2. CHECK SEA STRAINER AND OPEN RAW WATER SEACOCK. SEE PAGE 80 FOR LOCATIONS</p> <p>3. START GENERATOR (FOLLOW STARTING INSTRUCTIONS PROVIDED IN THE "GENERATOR MANUAL")</p> <p>3. RAISE SLIDE BAR ON "A" SIDE OF A.C. PANEL AND TURN GENERATOR BREAKER TO THE "ON" POSITION TO POWER "A" SIDE OF A.C. MAIN DISTRIBUTION PANEL.</p> <p>4. TO POWER "B" SIDE OF A.C. PANEL (TO USE AIR COND'S) RAISE SLIDE BAR ON "B" SIDE OF A.C. PANEL AND TURN PARALLEL BREAKER TO THE "ON" POSITION</p> |

H460 POWER SYSTEMS OPERATIONS PROCEDURES

H460 BATTERY CHARGING SYSTEMS OPERATION PROCEDURES

ENGINE ALTERNATOR

1. TURN (START) BATTERY SELECTOR SWITCH TO THE "ON" POSITION, LOCATED ON STBD. AFT ENGINE ROOM BULK. IN AFT STRM.
2. CHECK SEA STRAINER & OPEN RAW WATER SEACOCK, SEE PAGE 60 FOR LOCATIONS
3. START SHIP'S ENGINE (FOLLOW STARTING INSTRUCTIONS IN THE "ENGINE MANUAL")
4. TURN "IN/DRAW" (HOUSE) BATTERY SWITCH TO THE "BOTH" POSITION

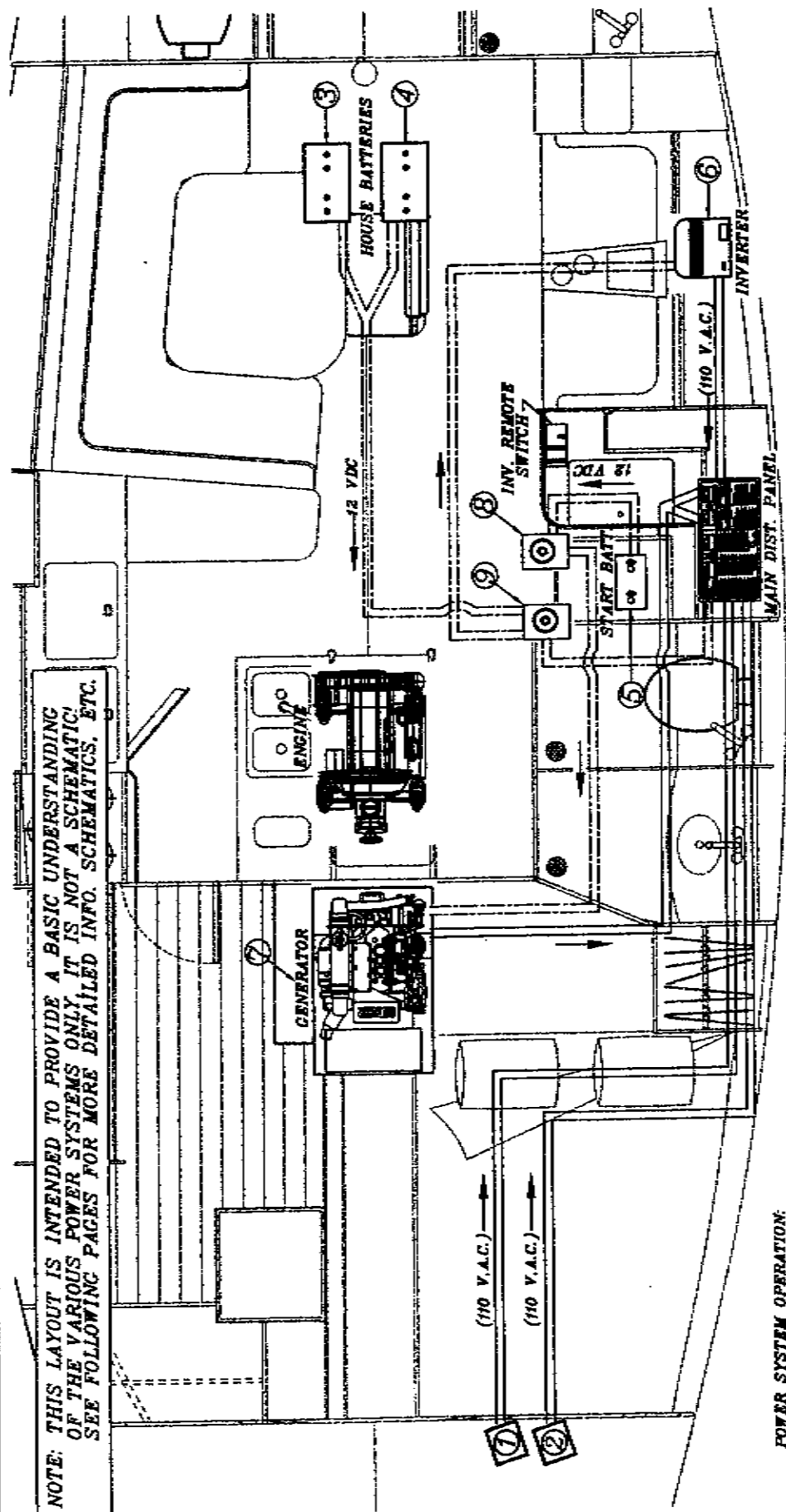
INVERTER INVERTER HAS A BUILT IN AUTO. CHARGING SYSTEM

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
2. TURN INVERTER REMOTE SWITCH (LOCATED AT NAV. STATION) TO THE "OFF" POSITION
3. TURN INVERTER/DRAW (HOUSE BATT'S) SELECTOR SWITCH TO THE "BOTH" POSITION, LOCATED AFT END PORT SETTEE MAIN CABIN.
NOTE: IT IS NOT NECESSARY TO TURN ON THE "START" BATTERY SWITCH TO PROVIDE CHARGING POWER TO THE START BATTERY.
NOTES: WHEN LEAVING BOAT UNATTENDED, BE SURE INVERTER REMOTE SWITCH IS IN THE "OFF" POSITION, 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 HOUSE BATTERIES TO BE DRAINED. WHEN THE INVERTER REMOTE 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

OPTIONAL GENERATOR

1. TURN (START) BATTERY SWITCH TO THE "ON" POSITION, LOCATED ON STBD. AFT ENGINE ROOM BULK. IN AFT STRM.
2. CHECK SEA STRAINER & OPEN RAW WATER SEACOCK, SEE PAGE 60 FOR LOCATIONS
2. START GENERATOR (FOLLOW STARTING INSTRUCTIONS IN THE "GENERATOR MANUAL")
4. TURN THE INVERTER REMOTE SWITCH TO THE "OFF" POSITION.
5. TURN THE IN/DRAW SELECTOR SWITCH TO THE "BOTH" POSITION

NOTE: THIS LAYOUT IS INTENDED TO PROVIDE A BASIC UNDERSTANDING OF THE VARIOUS POWER SYSTEMS ONLY. IT IS NOT A SCHEMATIC! SEE FOLLOWING PAGES FOR MORE DETAILED INFO. SCHEMATICS, ETC.



POWER SYSTEM OPERATION:

- ① SHORE POWER "A" POWERS "A" SIDE OF A.C. PANEL
- ② SHORE POWER "B" POWERS "E" SIDE OF A.C. PANEL
- ③ & ④ HOUSE BATTERY PROVIDES 12V.D.C. VOLTAGE TO D.C. SIDE OF DISTRIBUTION PANEL AND INVERTER.
- ⑤ START BATTERY PROVIDES 12 V.D.C. POWER TO ENGINE & GEN. STARTERS. (NOTE: ISOLATOR PREVENTS INVERTER FROM DRAWING POWER FROM START BATTERY.
- ⑥ INVERTER CONVERTS 12 V.D.C. TO A.C. VOLTAGE AND POWERS "A" SIDE OF A.C. PANEL ONLY. (WITH THE EXCEPTION OF THE WATER HEATER) (LOCATED UNDER CHART SEAT, SHOWN HERE FOR CLARITY)
- ⑦ OPT. GENERATOR PROVIDES A.C. POWER TO BOTH "A" & "E" SIDES OF PANEL WHEN GENERATOR AND PARALLEL BREAKERS ARE IN THE "ON" POSITION WHILE GENERATOR RUNNING.

- ⑧ START BATTERY "ON/OFF" SWITCH
- ⑨ INVERTER/ DRAW SELECTOR SWITCH
- ⊙ = BATTERY SELECTOR SWITCHES
- = POWER FLOW DIRECTION

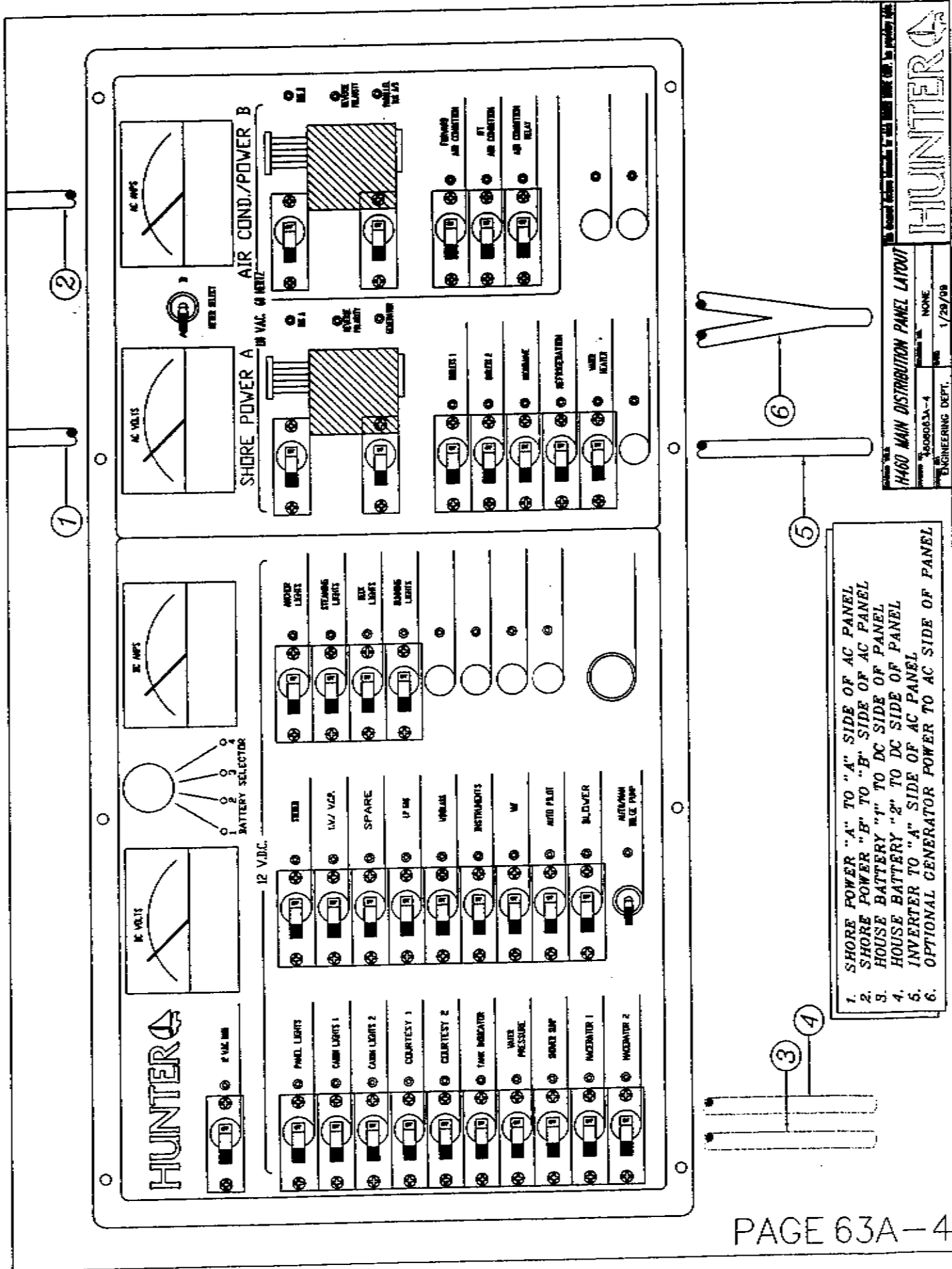
===== = 12 V.D.C.
 ===== = 110 V.A.C. (220 V.A.C. OVERSEAS MODELS)

HUNTER

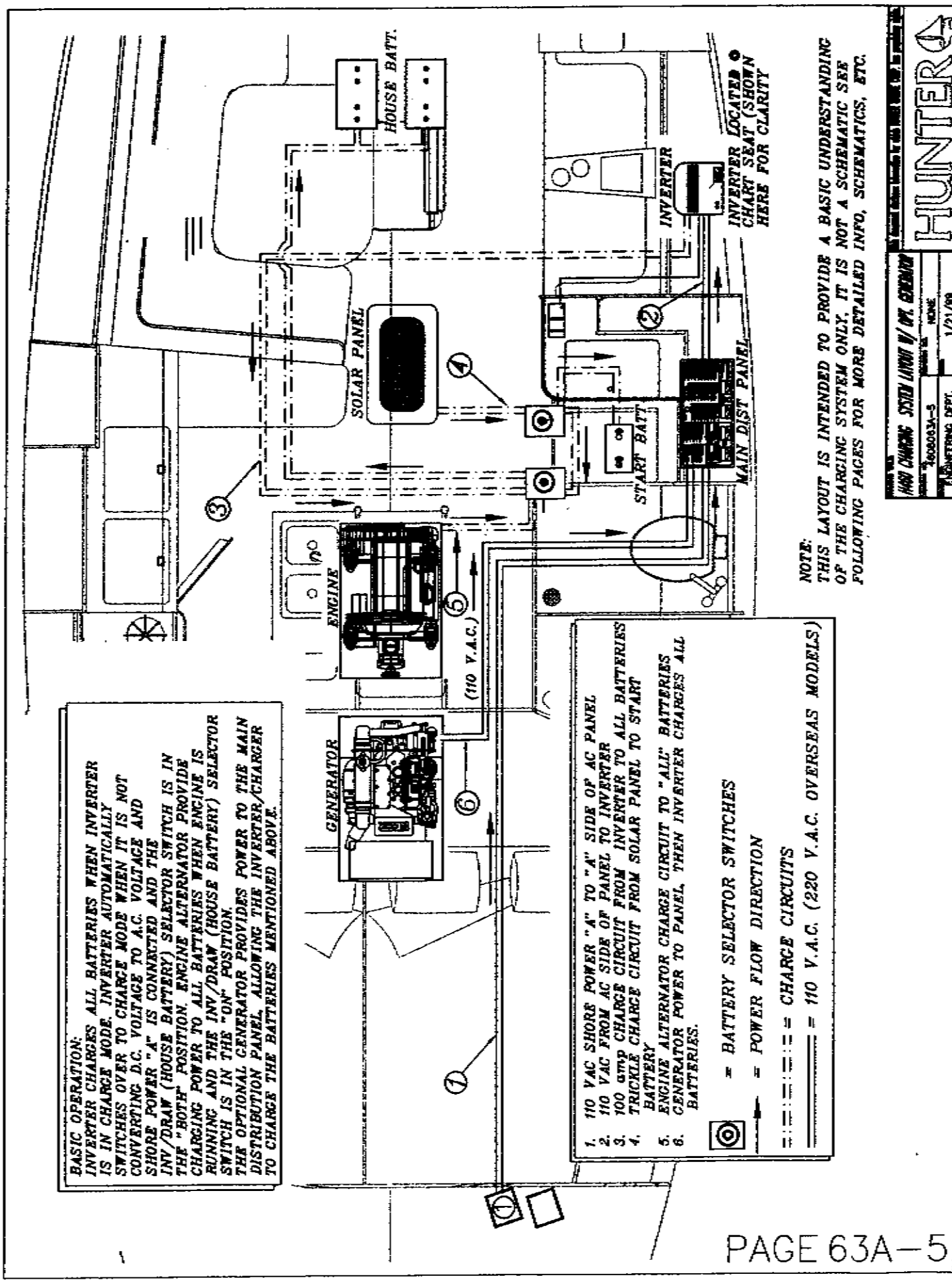
H460 BASIC POWER SYSTEM LAYOUT

460003A-3 NONE 1/21/99

ENGINEERING DEPT.



1. SHORE POWER "A" TO "A" SIDE OF AC PANEL
2. SHORE POWER "B" TO "B" SIDE OF AC PANEL
3. HOUSE BATTERY "1" TO DC SIDE OF PANEL
4. HOUSE BATTERY "2" TO DC SIDE OF PANEL
5. INVERTER TO "A" SIDE OF AC PANEL
6. OPTIONAL GENERATOR POWER TO AC SIDE OF PANEL



BASIC OPERATION:
 INVERTER CHARGES ALL BATTERIES WHEN INVERTER IS IN CHARGE MODE. INVERTER AUTOMATICALLY SWITCHES OVER TO CHARGE MODE WHEN IT IS NOT CONVERTING D.C. VOLTAGE TO A.C. VOLTAGE AND SHORE POWER "A" IS CONNECTED AND THE INV/DRAW (HOUSE BATTERY) SELECTOR SWITCH IS IN THE "BOTH" POSITION. ENGINE ALTERNATOR PROVIDE CHARGING POWER TO ALL BATTERIES WHEN ENGINE IS RUNNING AND THE INV/DRAW (HOUSE BATTERY) SELECTOR SWITCH IS IN THE "ON" POSITION.
 THE OPTIONAL GENERATOR PROVIDES POWER TO THE MAIN DISTRIBUTION PANEL, ALLOWING THE INVERTER/CHARGER TO CHARGE THE BATTERIES MENTIONED ABOVE.

1. 110 VAC SHORE POWER "A" TO "A" SIDE OF AC PANEL
 2. 110 VAC FROM AC SIDE OF PANEL TO INVERTER
 3. 100 amp CHARGE CIRCUIT FROM INVERTER TO ALL BATTERIES
 4. TRICKLE CHARGE CIRCUIT FROM SOLAR PANEL TO START BATTERY
 5. ENGINE ALTERNATOR CHARGE CIRCUIT TO "ALL" BATTERIES
 6. GENERATOR POWER TO PANEL, THEN INVERTER CHARGES ALL BATTERIES.
- [Target Symbol] = BATTERY SELECTOR SWITCHES
 [Arrow Symbol] = POWER FLOW DIRECTION
 [Dashed Line Symbol] = CHARGE CIRCUITS
 [Solid Line Symbol] = 110 V.A.C. (220 V.A.C. OVERSEAS MODELS)

NOTE:
 THIS LAYOUT IS INTENDED TO PROVIDE A BASIC UNDERSTANDING OF THE CHARGING SYSTEM ONLY. IT IS NOT A SCHEMATIC SEE FOLLOWING PAGES FOR MORE DETAILED INFO, SCHEMATICS, ETC.

HUNTER

HUNTER CHARGING SYSTEM LAYOUT BY DR. GENDRON
 HUNTER # 200803A-5
 HUNTER # NONE
 ENGINEERING DEPT. 1/21/99

12 V.D.C. DISTRIBUTION PANEL

| BREAKER | DESCRIPTION |
|------------------|--|
| D.C. MAIN | SUPPLIES 12 V.D.C. POWER FROM HOUSE BATTERIES 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 1 | SUPPLIES POWER TO CABIN LIGHTS FORWARD OF THE GALLEY AND NAVIGATION STATION |
| CABIN LIGHTS 2 | SUPPLIES POWER TO CABIN LIGHTS AFT OF THE GALLEY AND NAVIGATION STATION |
| COURTESY 1 | SUPPLIES POWER TO SWITCHED CTSY. LIGHTS, THESE ARE THE FRIDGE/FREEZER, BILGE COMPTS. AND COCKPIT |
| COURTESY 2 | SUPPLIES POWER TO ALL CABIN SOLE LIGHTS LOCATED AT THE GALLEY, NAV. STA., AFT STRM. FWD STRM |
| COCKPIT LIGHTS | SUPPLIES POWER TO COCKPIT LIGHTS IN THE ARCH |
| WATER PUMP | SUPPLIES POWER TO FRESH WATER PUMP TO PRESSURIZE H2O SYSTEM. |
| SUMP PUMP | SUPPLIES POWER TO BOTH FWD. AND AFT SHOWER SUMP BOXES. (SELF CONTAINED FLOAT SWITCH IN EACH SUMP ACTIVATES PUMP INSIDE EACH SUMP BOX. (SEE PAGE 58A FOR SUMP LOCATIONS) |
| TV/VCP | SUPPLIES POWER TO TV/VCP (VIDEO CASSETTE PLAYER) |
| STEREO | SUPPLIES POWER TO STEREO UNIT AND AMPLIFIER |
| 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 WHEN VESSEL UNDERWAY BY ENGINE POWER. (ALONG W/RUNNING LTS.) |
| DECK LITES | SUPPLIES POWER TO DECK LIGHT (IS COMBINATION WITH STEAMING LIGHT) PROVIDES LIGHT TO DECK BELOW. |
| RUNNING LIGHTS | SUPPLIES POWER TO THE BOW, STERN, & COMPASS LIGHT. USE AT NIGHT UNDER SAIL AND/OR ENGINE POWER. |
| INSTRUMENTS | SUPPLIES POWER TO KNOT, DEPTH, & SPEED REPEATERS LOCATED ON HELM CONSOLE. |
| VHF | SUPPLIES POWER TO THE VHF RADIO LOCATED INSIDE COMPANIONWAY OPENING |
| NAV. INST. | THIS BREAKER PROVIDED FOR OPTIONAL NAVIGATION INSTRUMENTS SUCH AS RADAR. |
| 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) |
| AUTOPILOT | THIS BREAKER PROVIDED FOR AN OPTIONAL AUTOPILOT SYSTEM. |
| MACERATOR 1 | SUPPLIES POWER TO FWD. MACERATOR (LOCATED UNDER FWD. STRM BUNK) |
| MACERATOR 2 | SUPPLIES POWER TO AFT MACERATOR (LOCATED UNDER AFT STRM. BUNK, NOTE: THESE DEVICES ARE USED FOR DIRECT OVERBOARD DISCHARGE OF RAW SEWAGE, BE AWARE OF YOUR LOCAL BOATING REG. BEFORE USING. |
| L. P. GAS | SUPPLIES POWER TO L.P. GAS SWITCH AT GALLEY. SEE "SEAWARD MANUAL" FOR OPER. & SAFETY INST. |
| BLOWER | SUPPLIES POWER TO ENGINE ROOM COOLING FAN & SHOULD BE "ON" WHEN RUNNING ENG. OR OPT. GEN |
| TANK INDICATOR | SUPPLIES POWER TO TANK SELECTOR SWITCH (AT NAV STATION) ROTATE SWITCH TO DESIRED TANK, TO VIEW TANK LEVEL ON LEVEL GAUGE. |
| BILGE PUMP | TOGGLE SWITCH STAYS IN THE "AUTO" POSITION, THIS ALWAYS FEEDS POWER TO THE FLOAT SWITCH (AS LONG AS BATTERIES ARE CONNECTED AND HAVE AMPLE CHARGE) FOR MANUAL USE, PUSH SWITCH TO "MANUAL" ILLUMINATED L.E.D. INDICATES POWER TO PUMP AND PUMP SHOULD BE RUNNING. PRIOR TO LEAVING VESSEL "MANUALLY" TEST PUMP AND CHECK BATTERY LEVEL. SEE BATTERY SELECT SWITCH BELOW. |
| BATT. SEL. SW. | USE TO REVIEW STATUS OF EA. BATTERY ROTATE TO SELECT BATTERY, VIEW STATUS ON METERS. |
| METERS | D.C. VOLTS DISPLAYS AVAILABLE VOLTAGE FROM SELECTED BATTERY D.C. AMPS DISPLAYS AMPERAGE BEING DRAWN FROM SELECTED BATTERY. |
| SPARES/ACCESSORY | 1 15amp BREAKER PROVIDED FOR ADDITIONAL 12 V.D.C. ACCESSORY |
| YELLOW L.E.D.'S | LIGHT EMITTING DIODES ILLUMINATE WHEN 12 V.D.C. POWER PRESENT. |
| NOTE: | IF THE OPTIONAL AUTOPILOT WAS INSTALLED AT THE FACTORY, THE "INSTRUMENTS" POWER LEADS ARE WIRED TO THE AUTOPILOT BREAKER. THIS ALLOWS THESE UNITS TO WORK SIMULTANEOUSLY OFF THE AUTOPILOT BREAKER. SEE PAGE 64A FOR BREAKER AMPERAGES. |

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

BREAKERS

DESCRIPTION

"A" SIDE OF A.C. PANEL

| | |
|-----------------|---|
| REFRIGERATION | SUPPLIES POWER TO REF. COMPRESSOR, ADJUST THERMOSTATS INSIDE FRIDGE/FREEZER TO DESIRED TEMP. |
| SHORE POWER "A" | PROVIDES A.C. VOLTAGE TO "A" SIDE OF MAIN DISTRIBUTION PANEL WHEN SHORE POWER CORD "A" IS CONNECTED TO OUTLET AT DOCKING FACILITY. |
| GENERATOR | SUPPLIES POWER FROM GENERATOR TO SHORE POWER "A" (AND SHORE POWER "B" IF DESIRED) PANEL. NOTE: TO PROVIDE POWER TO SHORE POWER "B" SIDE OF PANEL MOVE SLIDE BAR UP AND TURN ON THE PARALLEL BREAKER ON THE SHORE POWER "B" SIDE OF PANEL. |
| OUTLETS 1 | PROVIDES A.C. POWER TO THE OUTLETS ON THE PORT SIDE OF BOAT. |
| OUTLETS 2 | PROVIDES A.C. POWER TO THE OUTLETS ON THE STBD. SIDE OF BOAT. |
| MICROWAVE | SUPPLIES POWER TO OUTLET BEHIND MICRO. IN WHICH MICROWAVE IS PLUGGED INTO. |
| 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. |
| REFRIGERATION | SUPPLIES POWER TO REF. COMPRESSOR, ADJUST THERMOSTATS INSIDE FRIDGE/FREEZER TO DESIRED TEMP. |

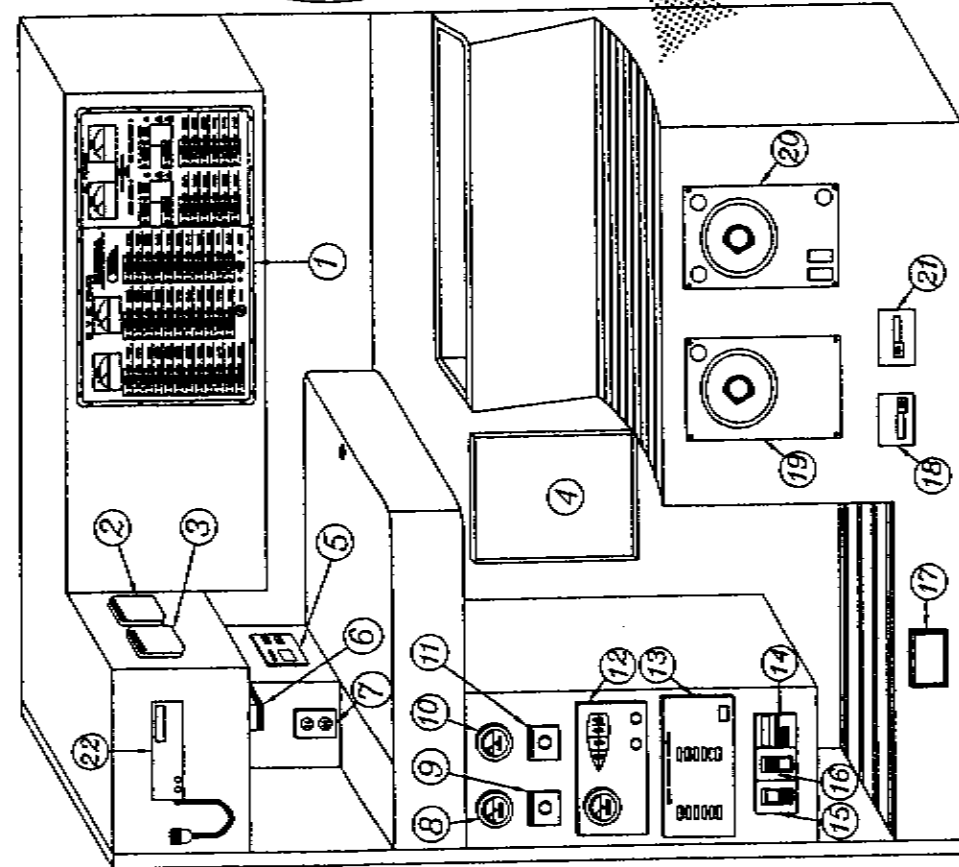
"B" SIDE OF PANEL

| | |
|-------------------|---|
| SHORE POWER "B" | PROVIDES A.C. VOLTAGE TO THIS SIDE OF PANEL WHEN SHORE POWER CORD "B" IS CONNECTED TO OUTLET AT DOCKING FACILITY. |
| PARALLEL | PROVIDES POWER FROM GENERATOR TO THIS SIDE OF PANEL (MOVE SLIDE BAR UP TO TURN BREAKER ON.) |
| FWD/AFT AIR COND. | PROVIDES POWER TO EITHER FWD. OR AFT AIR COND. UNITS (SEE "MARINE AIR MANUAL" FOR OPER. INSTRUCTIONS. |
| AIR COND. RELAY | PROVIDES POWER TO RAW WATER CIRCULATION PUMP USED TO COOL AIR COND. COMPRESSORS UNITS, THIS BREAKER MUST BE ON WHEN OPERATING AIR COND. UNIT/S. |

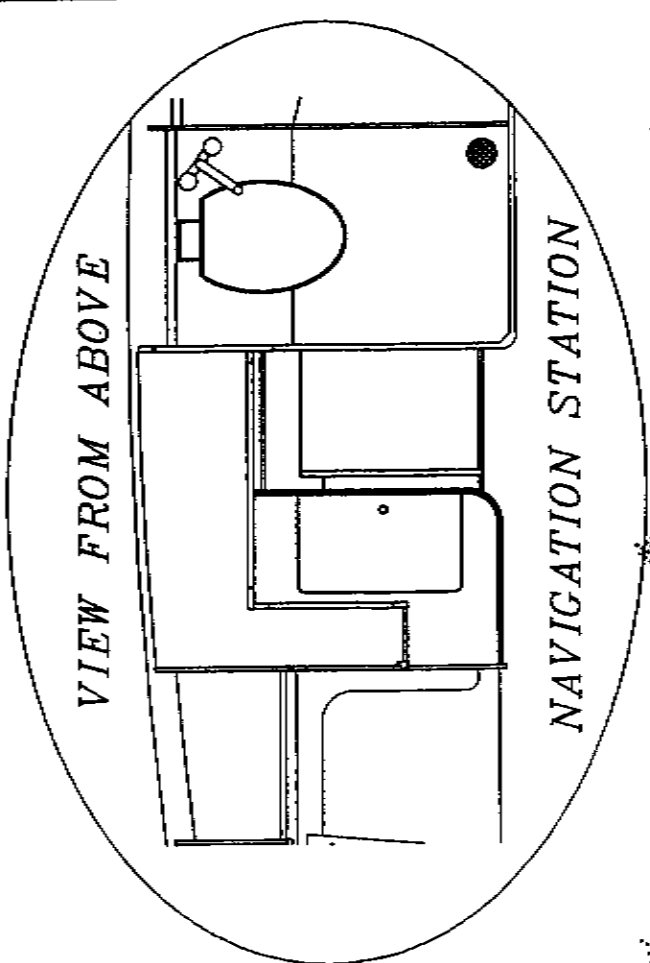
MISC. INFO

| | |
|-------------------|---|
| SPARE/ACCESSORY | 3 15amp BREAKERS PROVIDED FOR ADDITIONAL 12V.D.C. ACCESSORIES |
| RED L.E.D.'S | ILLUMINATE WHEN A.C. POWER PRESENT. |
| METER SEL. SWITCH | ALLOWS VOLTAGE BEING SUPPLIED AND AMPERAGE BEING DRAWN TO BE DISPLAYED ON VOLT & AMP METERS SWITCH POSITION "A" = "A" SIDE OF PANEL. SWITCH POSITION "B" = "B" SIDE OF PANEL. |
| REV. POLARITY | IF REVERSED POLARITY L.E.D.'S ILLUMINATE AFTER CONNECTING SHORE POWER HAVE DOCKSIDE POWER CHECKED BY QUALIFIED PERSONELL. |
| NOTE: | SEE PAGE 63A-14 FOR BREAKER AMPERAGES |

NOTE: A PRUDENT MARINER REALIZES THAT THE RESOURCES TO POWER A VESSEL ARE LIMITED. WHEN USING THE INVERTER OR GENERATOR 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.

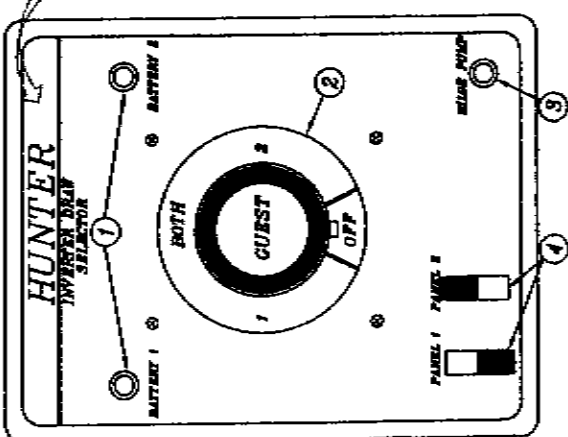


1. MAIN DISTRIBUTION PANEL
2. (OPTIONAL) AUTOPILOT MASTERVIEW
3. (OPTIONAL) AUTOPILOT REMOTE
4. NAVIGATION STATION ACCESS PANEL
5. FWD. AIR CONDITIONING CONTROL UNIT
6. NAVIGATION STATION CHART LIGHT
7. NAVIGATION STATION CFI OUTLET
8. FWD. (#1) WASTE TANK LEVEL INDICATOR
9. FWD. (#1) MACERATOR MOMENTARY SWITCH
10. AFT (#2) WASTE TANK LEVEL INDICATOR
11. AFT (#2) MACERATOR MOMENTARY SWITCH



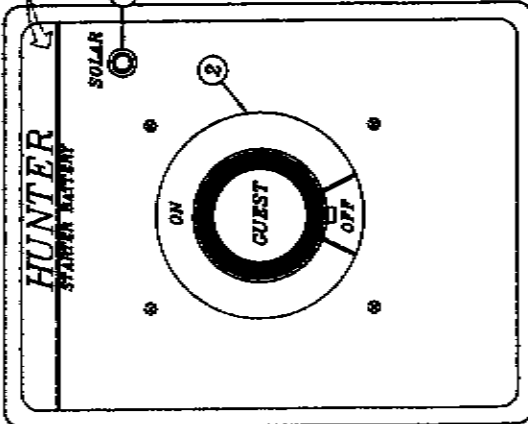
12. FUEL/WATER TANK SELECTOR SWITCH
LEVEL INDICATOR LOCATION ALSO.
13. INVERTER REMOTE SWITCH PANEL
14. (OPTIONAL) GENERATOR HOURS METER
15. (OPTIONAL) GENERATOR PREHEAT/STOP SWITCH
16. (OPTIONAL) GENERATOR START SWITCH
17. NAVIGATION STATION COURTESY LIGHT
18. ANCHOR WINDLESS RESET BREAKER
19. START BATTERY ON/OFF SWITCH
20. INVERTER DRAW (HOUSE BATT. SELECTOR) SWITCH
21. ELECTRIC HALYARD RESET BREAKER.
(NOT OFFERED ON ROLLER FURLING MAST BOATS)
22. LOCATION OF VHF RADIO FOR OVERSEAS MODELS
ONLY (ON DOMESTIC BOATS: RADIO LOCATED PORT
SIDE COMPANIONWAY ENTRANCE.)

INVERTER/DRAW (HOUSE BATTERY) SELECTOR SWITCH



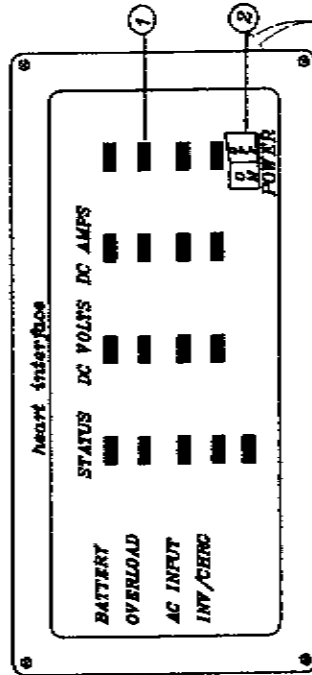
1. IN LINE FUSES FROM HOUSE BATTERY #1 OR #2 (TEST CIRCUIT) USED TO DISPLAY AVAILABLE VOLTAGE FROM HOUSE BATTERIES. SEE BATTERY SELECTOR SWITCH & METERS PAGE 63A-6.
 2. INVERTER/DRAW SELECTOR SWITCH SUPPLIES POWER TO THE PANEL FROM EITHER #1 OR #2 HOUSE BATTERIES. SEE BATTERY SELECTOR SWITCH & METERS PAGE 63A-6.
 3. BILGE PUMP RESET. PUSH TO RESTORE POWER TO BILGE PUMP.
 4. HOUSE BATTERY BREAKERS SUPPLY POWER FROM HOUSE BATTERIES 1 & 2 TO MAIN DC PANEL.
- PANEL #1- HOUSE BATTERY #1
PANEL #2- HOUSE BATTERY #2
SEE PAGE 63A-9 "INVERTER" FOR OPERATING DETAILS

STAMP BATTERY ON/OFF SAFETY SWITCH PANEL



1. ON/OFF SWITCH SUPPLIES POWER FROM STAMP BATTERY TO ENGINE AND OPTIONAL GENERATOR STARTERS)
2. SOLAR PANEL CHARGE CIRCUIT FUSE.

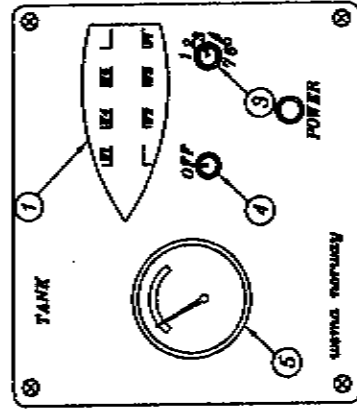
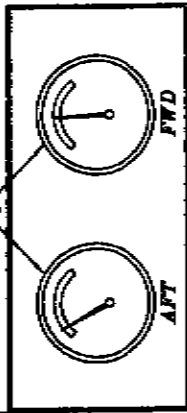
INVERTER REMOTE ON/OFF SWITCH PANEL



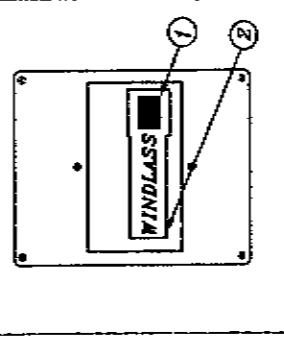
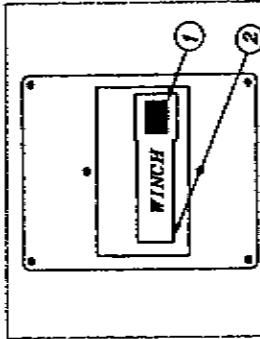
1. INVERTER STATUS DISPLAY
 2. INVERTER ON/OFF SWITCH
- SEE PAGE 63A-9 "INVERTER" FOR OPERATION DETAILS.

1. (TEST) ON/OFF BUTTON. PUSH TO TRIP RESET
 2. "RESET" PUSH UP TO RESTORE POWER.
- NOTE: WINDLASS PANEL SUPPLIES POWER TO THE WINDLASS MOTOR. THE "WINDLASS BREAKER" ON THE DC MAIN DISTRIBUTION PANEL SUPPLIES POWER TO THE UP/DOWN CONTROLS IN THE ANCHORWELL LOCKER.
- THE BILGE PUMP RESET SUPPLIES POWER TO THE SWITCH (LOCATED ON STD SIDE BLEND OF COMPANIONWAY OPENING) WHICH SUPPLIES POWER TO THE WINDLASS. WINDLASS IS OPTIONAL ELECTRIC BILGE PUMP IS STD. (EXCEPT ON PURLING MASTS)

1. TANK SELECTION DISPLAY
 2. WASTE GAUGES #1 & #2
 3. TANK SELECTION ROTARY SWITCH
 4. TANK GAUGES ON/OFF SWITCH
 5. WATER/FUEL TANK GAUGES
- OPERATION: TURN #4 SWITCH "ON" ROTATE #3 TO DESIRED TANK. TANK SELECTED ILLUMINATES ON DISPLAY. TANK LEVEL IS DISPLAYED ON GAUGE.



WATER/FUEL TANK SELECTION AND LEVEL GAUGES



PROJECT NO. H407 NAV STATION SELECTOR SWITCH PANELS
 DRAWING NO. 63063A-9
 SHEET NO. NONE
 DATE 1/21/99
 ENGINEERING DEPT.

HUNTER

12V.D.C. SYSTEM TROUBLESHOOTING GUIDE

TO POWER PANEL: TURN ON "D.C. MAIN" BREAKER ON PANEL, IT IS NOT NECESSARY TO TURN INV/DRAW SELECTOR SWITCH ON.
 IF NO POWER TO PANEL, CHECK BREAKER/S ON INV/DRAW SELECTOR SW. PANEL
 "BREAKER" # 1= HOUSE BATTERY # 1
 # 2= HOUSE BATTERY # 2
 AND 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 PANEL" ABOVE BATTERY TERMINALS CLEAN? SEEK QUALIFIED PERSONELL |
| CABIN LIGHTS | WON'T ILLUMINATE | SEE "TO POWER PANEL" ABOVE BULB/S NEED REPLACING? |
| COURTESY LIGHTS | WON'T ILLUMINATE | SEE "TO POWER PANEL" ABOVE BULB/S NEED REPLACING? |
| COCKPIT LIGHTS | WON'T ILLUMINATE | SEE "TO POWER PANEL" ABOVE BULB/S NEED REPLACING? |
| WATER PUMP | NO POWER CYCLES ON/OFF EXCESSIVELY | SEE "TO POWER PANEL" ABOVE FAUCETS OFF? LEAK IN SYSTEM SEE PAGE 57A FOR CONNECTION LOC. |
| SUMP PUMP | WON'T PUMP WHEN SUMP BOX FILLED (PUMP WON'T QUIT RUNNING) PUMP MAKES NOISE, DOESN'T PUMP PUMP RUNS BUT DOESN'T PUMP | SEE "TO POWER PANEL" ABOVE IS FLOAT SWITCH STUCK? DEBRIS IN PUMP IMPELLER? DISCHARGE HOSE CLOGGED? |
| TV/VCP | WON'T TURN ON | SEE "TO POWER PANEL" ABOVE REPLACE BATTERIES IN REMOTE |
| STEREO | WON'T TURN ON | SEE "TO POWER PANEL" ABOVE CHECK INLINE FUSE BEHIND STEREO. |
| ANC., ST., DECK, & RUNNING. LIGHTS | WON'T ILLUMINATE | SEE "TO POWER PANEL" ABOVE CHECK CONNECTIONS IN ACCESS PANEL AT TOP OF COMPRESSION POST BULB/S NEED REPLACING? |
| INSTRUMENTS | REPEATERS DON'T OPERATE | SEE "TO POWER PANEL" ABOVE DO TRANSDUCERS NEED CLEANING? SEE "INSTRUMENTS" MANUAL |
| V.H.F. RADIO | WON'T OPERATE TURNS ON WON'T TRANSMIT/RECEIVE | SEE "TO POWER PANEL" ABOVE RADIO TURNED ON? ANTENNA CONNECTED PROPERLY? |
| OPT. NAV. INST. | WON'T OPERATE | SEE "TO POWER PANEL" ABOVE IS UNITS ON? |
| WINDLASS | UP/DOWN CONTROLS DON'T OPERATE WINDLASS | SEE "TO POWER PANEL" ABOVE IS RESET "TRIPPED" ON WINDLASS RESET PANEL? |
| OPT. AUTO PILOT | WON'T OPERATE WON'T HOLD STEADY COURSE CONSTANTLY ADJUSTING HELM | SEE "TO POWER PANEL" ABOVE 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. |
| MACERATOR/S | WON'T TURN ON RUNS BUT DOESN'T DISCHARGE PUMP MAKES NOISE, DOESN'T PUMP | SEE "TO POWER PANEL" IS DISCHARGE SEACOCK OPEN? IS WASTE DECK FITTING SECURE, IS IT PULLING AIR THRU? IF SO, TIGHTEN CAP OR REPLACE O- RING ON CAP. IS TANK VENT (HULL FITTING) CLOGGED? SEE PAGE 60 FOR LOCATIONS LODGED DEBRIS, TURN OFF POWER TO PUMP, INSERT SCREWDRIVER INTO PUMP ARMATURE AT END OF PUMP AND TURN TO DISLodge DEBRIS |
| NOTE: COMPONENT/S FAILURE COULD ALSO BE THE RESULT OF A POOR "GROUND" CONNECTION. SEE PAGE 64B FOR GROUND SYSTEM 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. | | |

12V. D.C. SYSTEM TROUBLESHOOTING GUIDE CONT:

| COMPONENT | SYMPTOM | POSSIBLE SOLUTION/S |
|-------------|---|---|
| L.P. GAS | NO POWER TO SWITCH AT GALLEY SYSTEM TURNS ON, NO GAS PRESENT | SEE "TO POWER PANEL" PREV. PAGE IS TANK VALVE OPEN? IS TANK EMPTY? SEE "STOVE/OVEN" MANUAL |
| BLOWER | WON'T TURN ON | SEE "TO POWER PANEL" PREV. PAGE |
| 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 INV/DRAW BATT. SWITCH PANEL, AND (IF APPLIES) RESET ON MAIN DISTRIBUTION PANEL. BATTERY CONNECTIONS GOOD? DEBRIS IN PUMP IMPELLER? DISCHARGE HOSE CLOGGED? |
| VOLT METER | NO VOLTAGE DISPLAYED | SEE "TO POWER PANEL" PREV. PAGE IS SEL. BATT. SW. ON #4? IF SO THIS POSITION AVAILABLE FOR ADDITIONAL BATTERY, USE #1,2, OR 3 POSITION. CK. FUSES ON INV/DRAW SEL. SW. PANEL ARE BATTERY CONNECTIONS GOOD? HAVE BATTERIES CHECKED HAVE METER CHECKED BY QUALIFIED PERSONELL. |
| AMP METER | NO AMPERAGE DISPLAYED | IS D.C. MAIN ON? IS ANYTHING IN THE 12V. SYSTEM TURNED ON & RUNNING? HAVE METER CHECKED BY QUALIFIED PERSONELL. |
| SOLAR PANEL | NO OUTPUT TO BATTERY/S | CK. FUSE ON START BATTERY ON/OFF SWITCH PANEL. |

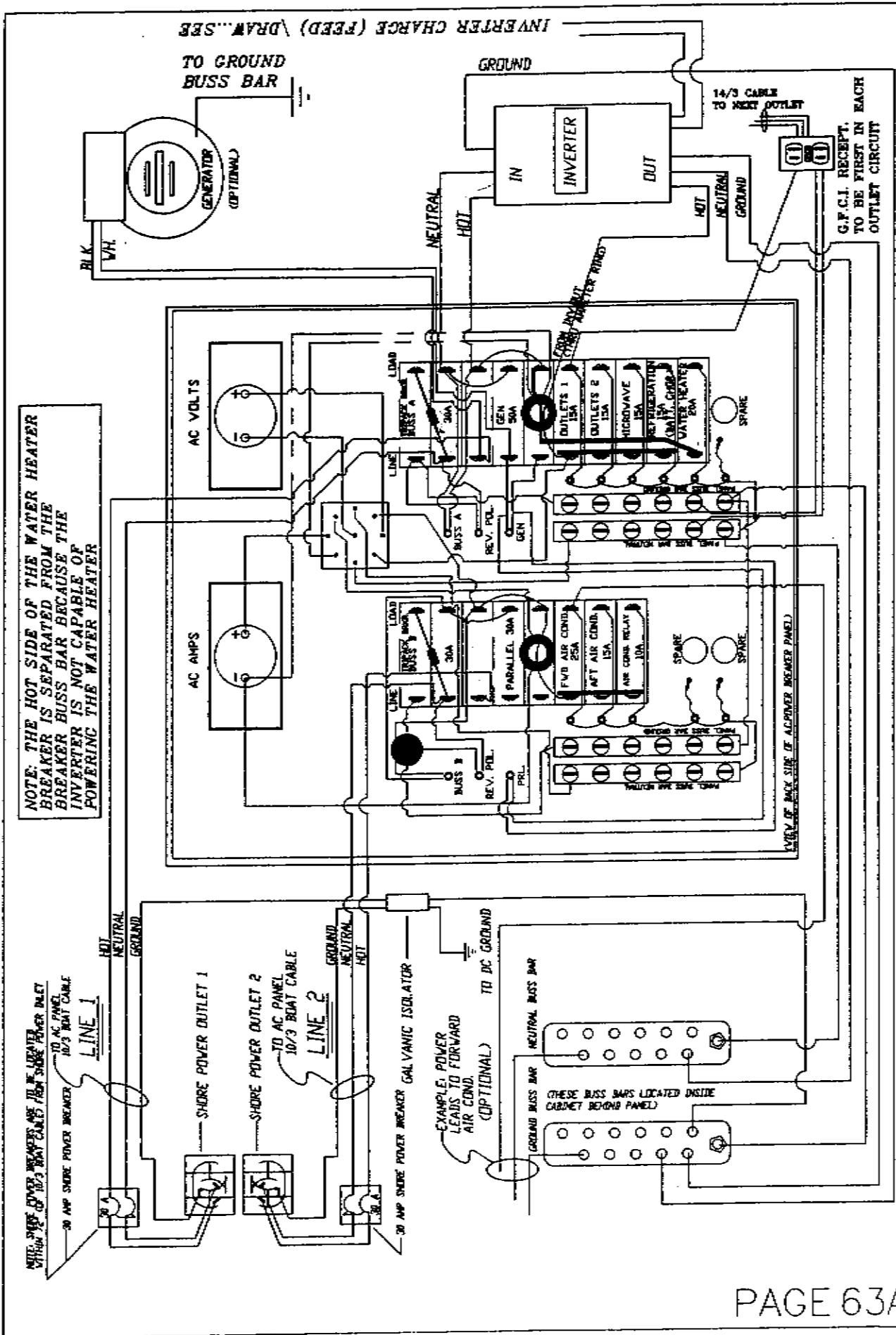
110V.A.C. (220V. OVERSEAS MODELS) SYSTEM TROUBLESHOOTING GUIDE

| COMPONENT | SYMPTOM | POSSIBLE SOLUTION/S |
|------------------------|---|--|
| SHORE POWER "A" | NO POWER TO PANEL | SEE "POWER SYSTEM OPERATIONS" PAGE 63A-2 CHECK DOCKSIDE BREAKER AND/OR BREAKER LOCATED INSIDE STARBOARD AFT STATEROOM HEADLINER (220V. MODELS INSIDE STB. SWIMSEAT LOCKER) CHECK RESET/S ON INVERTER. SEE "INV MANUAL" FOR LOCATION OF RESETS |
| OUTLETS #1 & 2 | NO POWER | SEE "POWER SYSTEM OPERATIONS" PAGE 63A-2 IS OUTLET BREAKER/S ON? CHECK RESET ON G.F.I. OUTLETS AT GALLEY & AT NAV. STATION. CHECK INPUT/OUTPUT RESETS ON OPT. INVERTER MODELS SEE "INV MANUAL" FOR LOCATION OF RESETS. |
| MICROWAVE | NO POWER | IS BREAKER ON? SEE "POWER SYSTEM OPERATIONS" PAGE 63A-2 IS MICROWAVE ON? SEE "MICRO MANUAL" |
| REFRIGERATION | WONT GET COLD | SEE "POWER SYSTEM OPERATIONS" PAGE 63A-2 THERMOSTATS TURNED ON? SEEK QUALIFIED PERSONELL |
| WATER HEATER | NO POWER WONT HEAT WATER WATER TO COLD/HOT | IS BREAKER ON? SEE "POWER SYSTEM OPERATIONS" PAGE 63A-2 CHECK "RESET" ON WATER HEATER SEE "WATER HEATER MANUAL" FOR LOCATION. SEE "WATER HEATER MANUAL" FOR THERMOSTAT ADJUSTMENT AND/OR ELEMENT REPLACEMENT, SEEK QUALIFIED PERSONELL |
| INVERTER/BATT. CHARGER | INV. NOT SUPPLYING A.C.POWER INV. ON BUT UNABLE TO OPERATE DESIRED APPLIANCE/S | IS INVERTER REMOTE SWITCH AT NAV. STATION ON? IS DESIRED APPLIANCE BREAKER ON? IS BATTERY VOLTAGE LOW? SEE VOLTAGE DISPLAY ON INVERTER REMOTE PANEL, SELECT OTHER BATTERY ON INVERTER/DRAW SELECTOR SWITCH PANEL IN AFT STRM. ARE YOU ASKING THE INVERTER TO POWER MORE THAN IT IS CAPABLE? SEE "INVERTER MANUAL" FOR INFORMATION REGARDING POWER OUTPUT CAPABILITIES. |
| INVERTER/BATT. CHARGER | NOT CHARGING BATTERY/S | IS SHORE POWER "A" ON? SEE "POWER SYSTEM OPERATIONS" PAGE 63A-2 IS INVERTER DRAW SELECTOR SWITCH IN "BOTH" POSITION? CHECK IN-LINE FUSE AT BATTERY/S ARE BATTERY CONNECTIONS GOOD? INVERTER REMOTE SWITCH SHOULD BE IN THE "OFF" POSITION. (THIS IS NECESSARY IN THE EVENT YOU "LOSE" SHORE POWER, THE INVERTER DOESN'T GO INTO INVERT MODE CAUSING BATT./S TO DRAIN IF YOU LEFT AN A.C. APPLIANCE ON.. |

110V.A.C. (220V. OVERSEAS MODELS) SYSTEM TROUBLESHOOTING GUIDE

CONT:

| COMPONENT | SYMPTOM | POSSIBLE SOLUTIONS |
|---|--|--|
| SHORE POWER "B" | NO POWER TO PANEL | IS SHORE POWER "B" BREAKER ON? CHECK DOCKSIDE BREAKER CHECK SHORE POWER BREAKER LOCATED IN HEADLINER STBD. AFT STRM. (ON 220V.A.C. MODELS IN STBD. AFT SWIMSEAT LOCKER.) |
| AIR COND. FWD/AFT | WONT TURN ON TURNS ON THEN SHUTS DOWN OTHER | ARE APPROPRIATE BREAKER/S ON? SEE "POWER SYSTEMS OPERATION" PAGE 63A-2 SEE "MARINE AIR" MANUAL IS AIR COND. RELAY "ON" ? IS AIR COND. RAW WATER SEACOCK OPEN? IF SO, IS WATER CIRCULATING? SEE PAGE 60 FOR AIR COND. DISCHARGE THRUHULL LOCATION. IF NOT IS AIR COND. PICKUP BEING RESTRICTED BY DEBRIS? SEE "MARINE AIR" MANUAL |
| OPTIONAL GENERATOR (APPLIES TO BOTH "A" & "B" SIDES OF A.C. PANEL) | | |
| GENERATOR | NO POWER TO STARTER RUNNING, BUT NO POWER AT PANEL. WONT START GEN. STARTS THEN SHUTS DOWN | IS START BATT. SELECTOR SWITCH ON? IS "GENERATOR BREAKER" ON "A" SIDE OF PANEL ON? (MOVE SLIDE BAR UP TO TURN THIS BREAKER ON). IS "PARALLEL BREAKER" ON "B" SIDE OF PANEL ON? (TO POWER "B" SIDE OF A.C. PANEL) SEE GENERATOR MANUAL DID YOU FOLLOW PROPER STARTING PROCEDURE AS DESCRIBED IN THE "GENERATOR MANUAL"? DO YOU HAVE AN AMPLE AMOUNT OF DIESEL FUEL? REMEMBER THE GENERATOR FUEL PICKUP TUBE IS SHORTER THAN THE PICKUP TUBE FOR THE ENGINE, THIS PREVENTS GENERATOR FROM DRAINING TANK SINCE ENGINE POWER IS MORE IMPORTANT THAN GENERATOR POWER. REFER TO GENERATOR MANUAL FOR POSSIBLE FUSE OR RESET ON GENERATOR. IS RAW WATER PICKUP SEACOCK OPEN? IS RAW WATER PICKUP BEING RESTRICTED BY DEBRIS? |



NOTE: THE HOT SIDE OF THE WATER HEATER BREAKER IS SEPARATED FROM THE BREAKER BUSS BAR BECAUSE THE INVERTER IS NOT CAPABLE OF POWERING THE WATER HEATER

NOTE: SHORE POWER BREAKERS ARE TO BE LOCATED WITHIN 5 FEET OF 10/3 BAY CABLES FROM SHORE POWER INLET WHICH IS TO BE LOCATED WITHIN 5 FEET OF 10/3 BAY CABLE

30 AMP SHORE POWER BREAKER

LINE 1

SHORE POWER OUTLET 1

SHORE POWER OUTLET 2

TO AC PANEL 10/3 BOAT CABLE

LINE 2

GROUND NEUTRAL HOT

30 AMP SHORE POWER BREAKER GALVANIC ISOLATOR

TO DC GROUND (OPTIONAL)

EXAMPLE: POWER LEADS TO FORWARD AIR COND.

GROUND BUSS BAR

NEUTRAL BUSS BAR

THESE BUSS BARS LOCATED INSIDE CABINET BEHIND PANEL

GROUND BUSS BAR

NEUTRAL BUSS BAR

GROUND BUSS BAR

NEUTRAL BUSS BAR

GROUND BUSS BAR

NEUTRAL BUSS BAR

GROUND BUSS BAR

NEUTRAL BUSS BAR

GROUND BUSS BAR

NEUTRAL BUSS BAR

GROUND BUSS BAR

NEUTRAL BUSS BAR

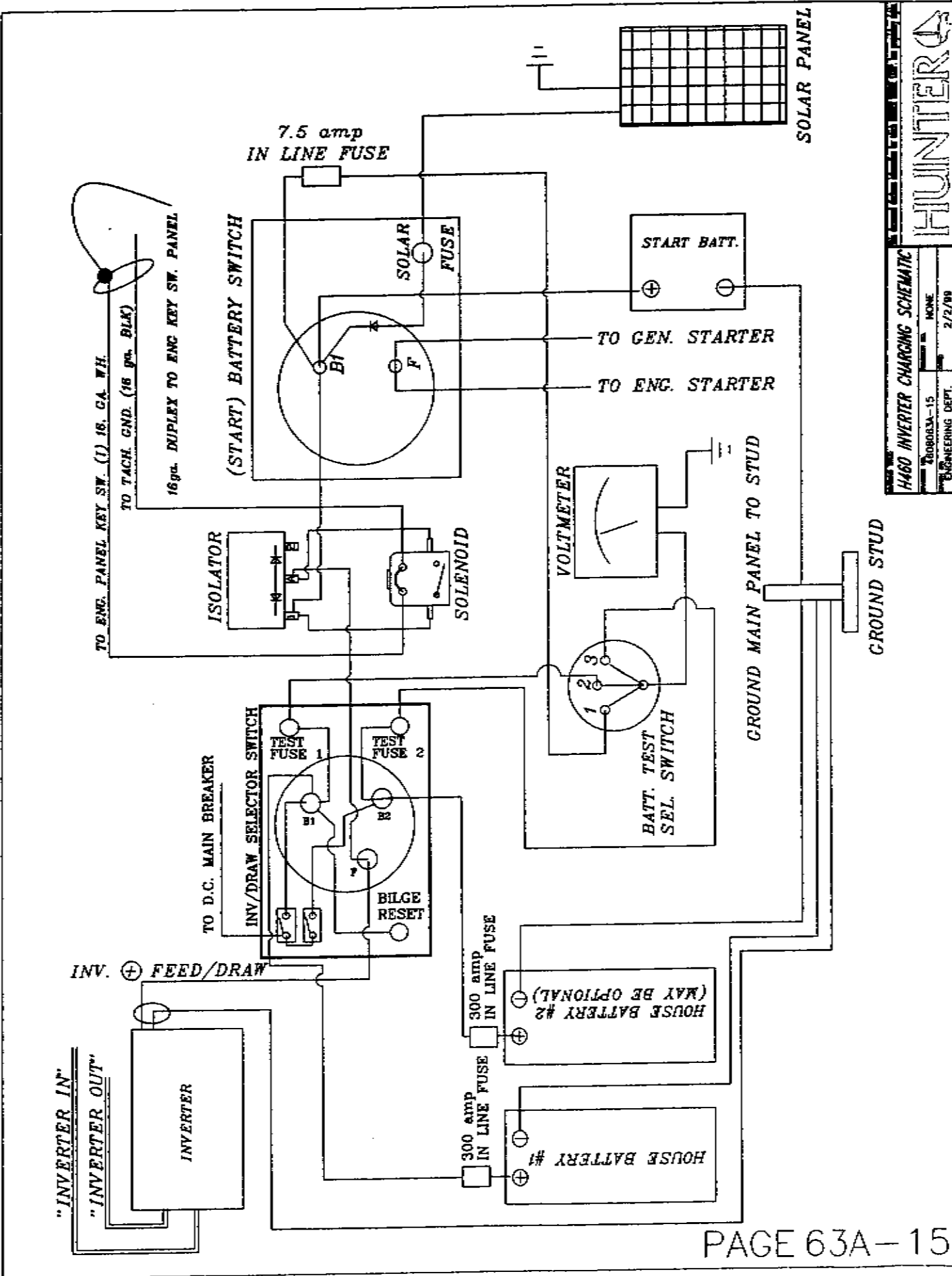
GROUND BUSS BAR

NEUTRAL BUSS BAR

NOTE: IF OPTIONAL WASHER/DRYER CHOSEN INSTALL BREAKER (CORRECT AMPERAGE) BUT DO NOT CONNECT HOT SIDE OF BREAKER TO BREAKER BUSS BAR, THE INVERTER IS NOT CAPABLE TO POWER THE WASHER/DRYER

H460 AC PANEL SCHEMATIC
 HUNTERCO
 REV. 10/85
 2/2/99

HUNTERCO



H460 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:

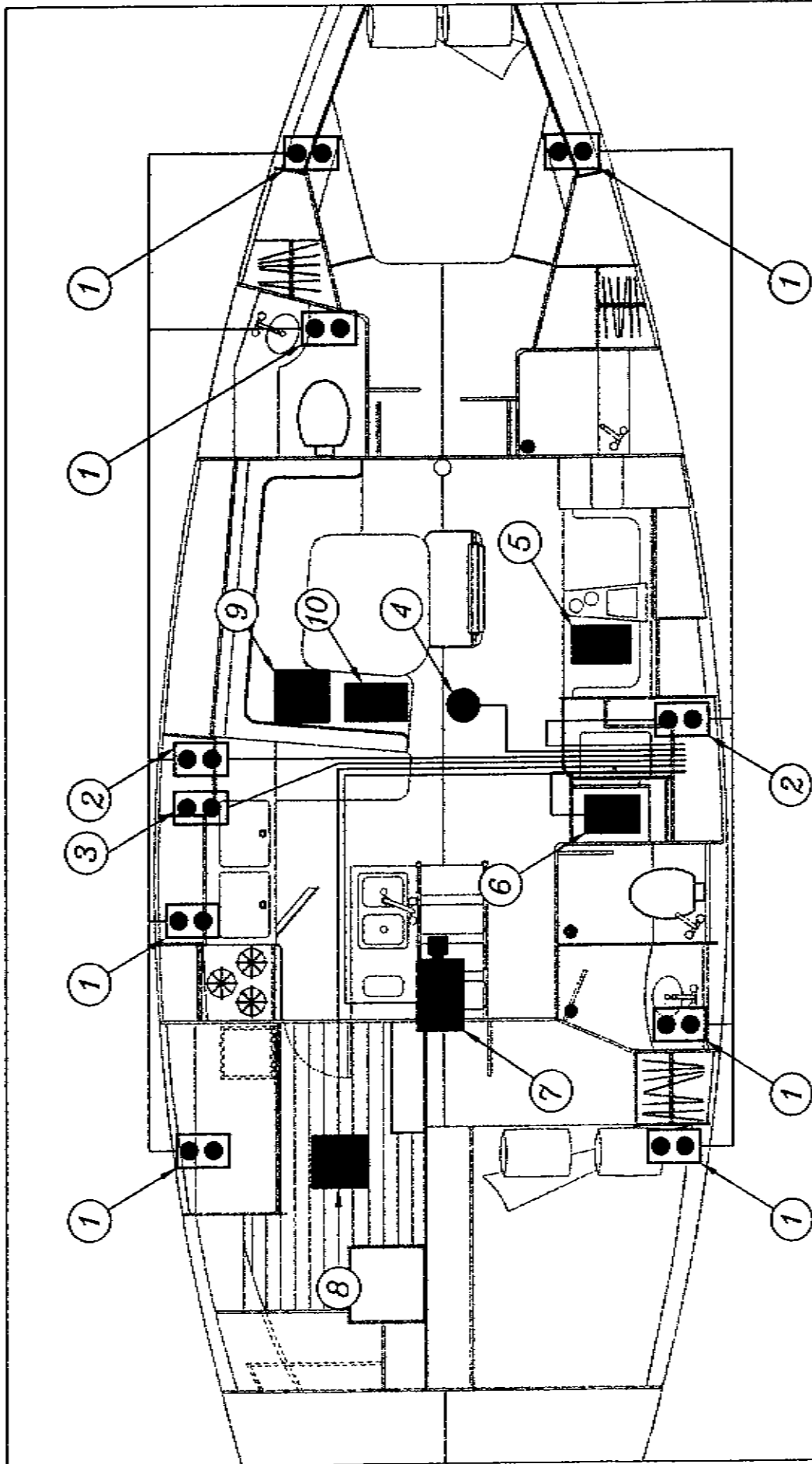
| | |
|-------------------|---------------------|
| COFFEE MAKER..... | 800 - 1,000 WATTS |
| FRYING PAN..... | 1,000 - 2,500 WATTS |
| TOASTER..... | 800 - 1,000 WATTS |
| FAN..... | 75 - 300 WATTS |
| RADIO..... | 60 - 150 WATTS |
| TV..... | 250 - 600 WATTS |
| HOT PLATE..... | 800 - 1,200 WATTS |
| 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:

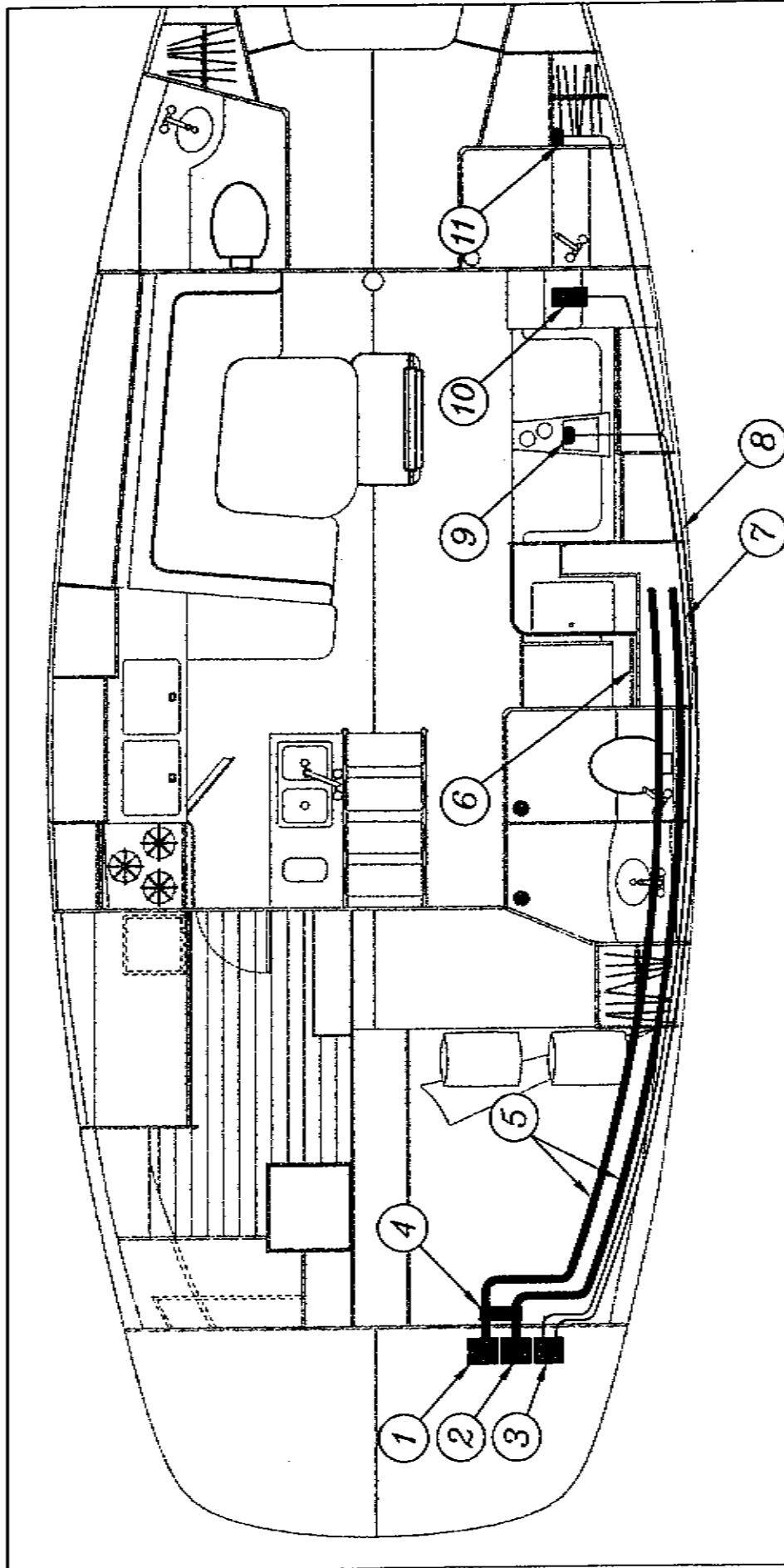
| | |
|------------------------------|---------------------------------------|
| SMALLER MODEL INVERTER..... | 1,000 WATTS |
| LARGER MODEL INVERTER..... | 2,000 WATTS (THIS MODEL ON YOUR BOAT) |
| SMALLER MODEL GENERATOR..... | 5,500 WATTS |
| LARGER MODEL GENERATOR..... | 8,000 WATTS |
| SHORE POWER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



- | | |
|-------------------------------|---|
| 1. POWER OUTLETS | 6. INVERTER |
| 2. CFI POWER OUTLETS | 7. OPTIONAL GENERATOR |
| 3. MICROWAVE OVEN OUTLET | 8. (OPT) AFT AIR CONDITIONER COMPRESSOR |
| 4. AIR CONDITIONER WATER PUMP | 9. (OPT) FWD AIR CONDITIONER COMPRESSOR |
| 5. WATER HEATER | 10. 110 VAC REFRIGERATION COMPRESSOR |



- | | |
|-----|---------------------------------------|
| 1. | SHORE POWER "1" INLET |
| 2. | SHORE POWER "2" INLET |
| 3. | TV COAX/PHONE LINE INLET |
| 4. | 80 AMP SHORE POWER BREAKERS |
| 5. | (LOCATED IN STBD COCKPIT LOCKER) |
| 6. | 10/3 SHORE POWER CABLE TO MAIN PANEL |
| 7. | MAIN DISTRIBUTION PANEL @ NAV STATION |
| 8. | TELEPHONE LINE WIRE RUN |
| 9. | MAIN SALON PHONE JACK |
| 10. | TV COAX OUTLET |
| 11. | (LOCATED BEHIND TV/VCP FWD SALON) |
| 12. | FWD STATEROOM PHONE JACK |
| 13. | (LOCATED ON TOP OF STBD HANGING LCKR) |

HUNTER
 HUNTER AC POWER HEADLINE WIRING SCHEMATIC
 ADDRESS: NONE
 ENGINEERING DEPT. 2/2/00

SECTION 63D...OPTIONAL AIR COND. SYSTEMS

BASIC OPERATING INSTRUCTIONS:

- ① CHOOSE POWER SOURCE (SHORE POWER OR GENERATOR) SEE PAGES 63A-2
- ② CHECK AIR COND. SEA STRAINER, (AFT MAIN BILGE) CLEAN IF NECESSARY
- ③ OPEN THE RAW WATER PICKUP SEACOCK (3/4" /19.1mm.)
- ④ ENSURE THE 1/2" (12.7mm) DISCHARGE SEACOCK IS OPEN.
(SEACOCK ACCESSED THRU HOLE IN SETTEE BACK, BEHIND STBD FWD SETTEE CUSHION)
- ⑤ TURN A.C. (BUS "B") BREAKERS (FWD, AFT & RELAY) ON AT MAIN A.C. PANEL
- ⑥ TURN ON UNIT AT THERMOSTAT DISPLAY PANEL AND SET TEMP.

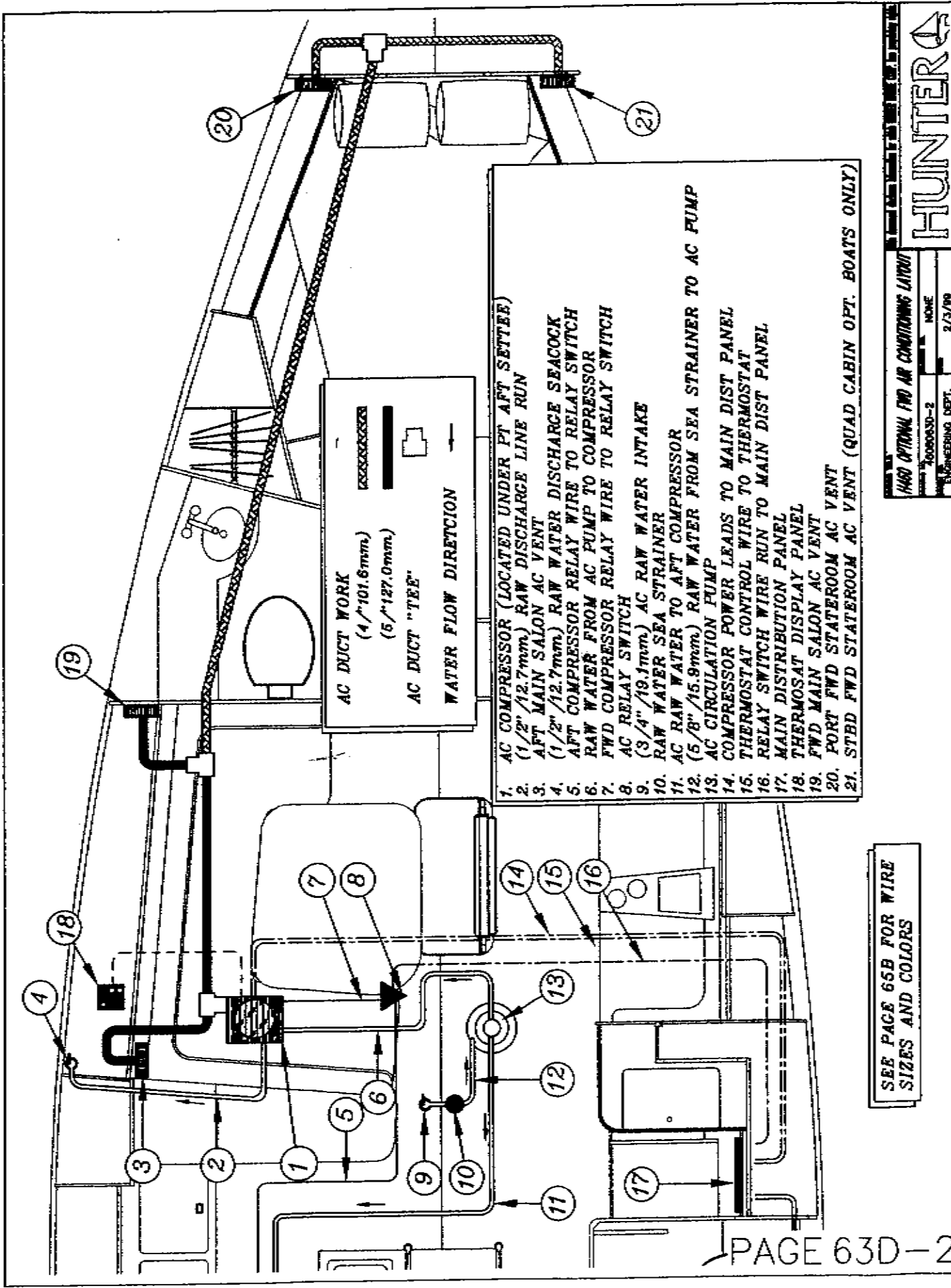
NOTE:

IF ANY OTHER APPLIANCES ARE TO BE USED WHEN AIR CONDITIONER IS RUNNING WHEN ON SHORE POWER, BOTH "SHORE POWER A" AND "SHORE POWER B" CABLES MUST BE HOOKED UP.

IF THERE IS NO POWER AT PANEL WHEN CONNECTED TO SHORE POWER, CHECK MAIN BREAKERS INSIDE STBD AFT COCKPIT LOCKER

SEE AIR CONDITION MANUAL FOR DETAILED OPERATING PROGRAMMING/TROUBLESHOOTING INSTRUCTIONS

RECEIVED 11



AC DUCT WORK
 (4" 101.6mm.)
 (5" 127.0mm.)

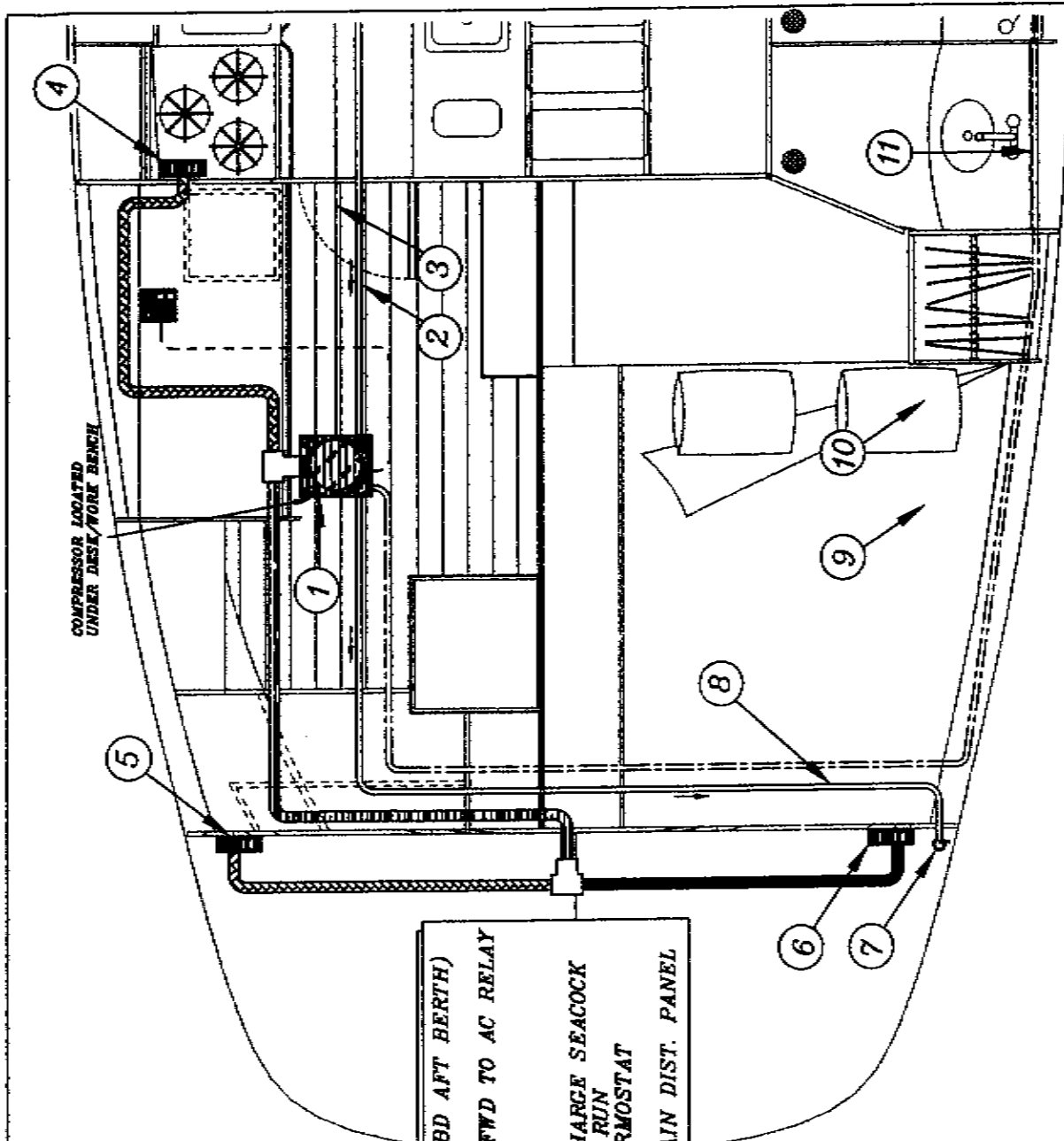
AC DUCT "TEE"

WATER FLOW DIRETCION

1. AC COMPRESSOR (LOCATED UNDER PT AFT SETTEE)
2. (1/2" / 12.7mm.) RAW DISCHARGE LINE RUN
3. AFT MAIN SALON AC VENT
4. (1/2" / 12.7mm.) RAW WATER DISCHARGE SEACOCK
5. AFT COMPRESSOR RELAY WIRE TO RELAY SWITCH
6. RAW WATER FROM AC PUMP TO COMPRESSOR
7. FWD COMPRESSOR RELAY WIRE TO RELAY SWITCH
8. AC RELAY SWITCH
9. (3/4" / 19.1mm.) AC RAW WATER INTAKE
10. RAW WATER SEA STRAINER
11. AC RAW WATER TO AFT COMPRESSOR
12. (5/8" / 15.9mm.) RAW WATER FROM SEA STRAINER TO AC PUMP
13. AC CIRCULATION PUMP
14. COMPRESSOR POWER LEADS TO MAIN DIST PANEL
15. THERMOSTAT CONTROL WIRE TO THERMOSTAT
16. RELAY SWITCH WIRE RUN TO MAIN DIST PANEL
17. MAIN DISTRIBUTION PANEL
18. THERMOSTAT DISPLAY PANEL
19. FWD MAIN SALON AC VENT
20. FWD FWD STATEROOM AC VENT
21. STBD FWD STATEROOM AC VENT (QUAD CABIN OPT. BOATS ONLY)

SEE PAGE 63B FOR WIRE SIZES AND COLORS

HUNTER
 1440 OPTIONAL FWD AIR CONDITIONING LAYOUT
 200063D-2
 NONE
 ENGINEERING DEPT. 2/3/90



AC DUCT WORK
 (4" / 101.6mm)
 (5" / 127.0mm)
 (6" / 152.4mm)

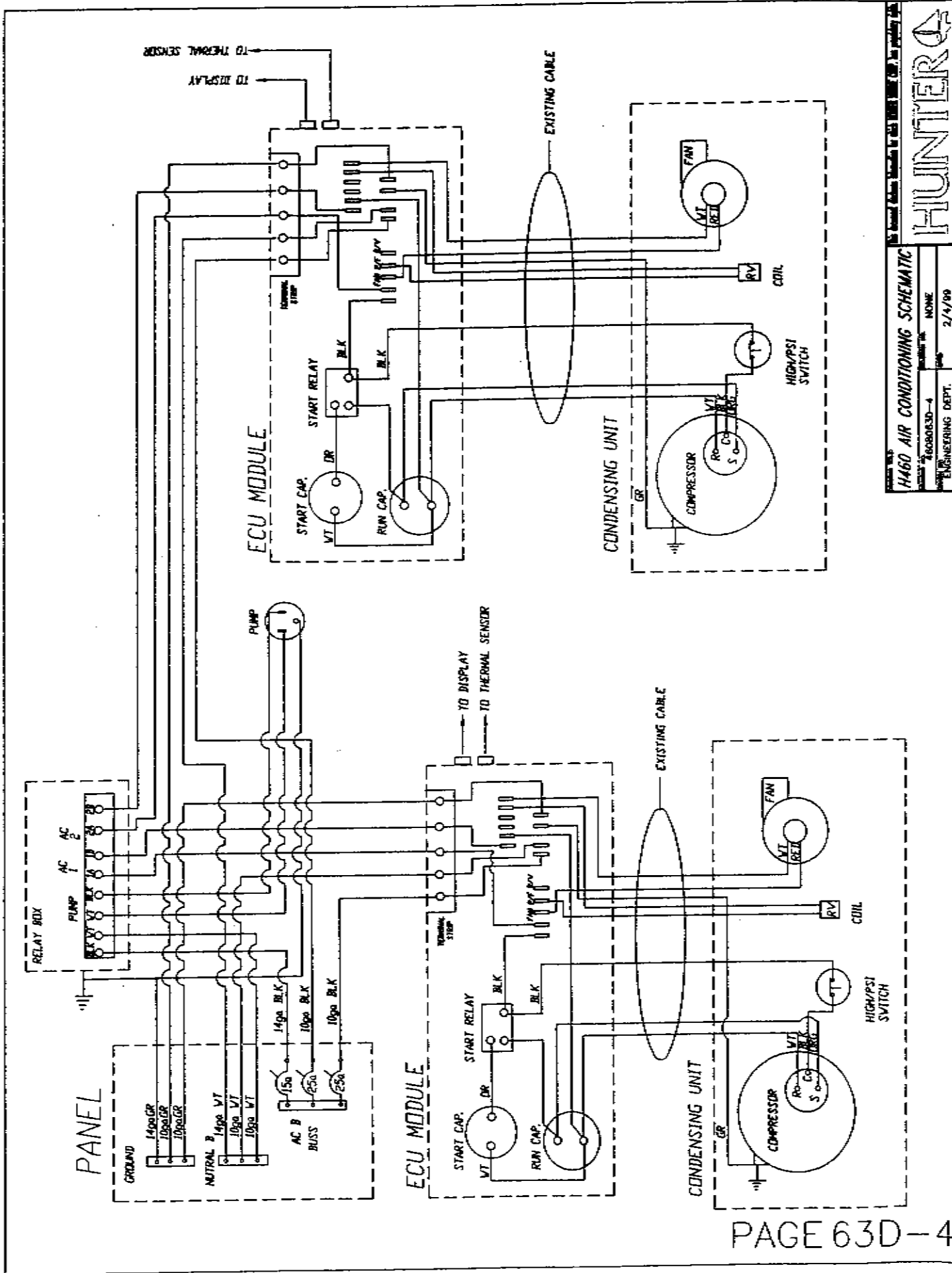
AC DUCT "TEE"

WATER FLOW DIRECTION

AC LAYOUT IS THE SAME FOR ALL OPTIONS OFFERED ON THIS MODEL

1. AC COMPRESSOR (LOCATED UNDER STBD AFT BERTH)
2. RAW WATER FROM AC PUMP
3. AFT COMPRESSOR RELAY WIRE RUN FWD TO AC RELAY
4. GALLEY AC VENT
5. PORT AFT STATEROOM AC VENT
6. STBD AFT STATEROOM AC VENT
7. (1/2" / 12.7mm) AC RAW WATER DISCHARGE SEACOCK
8. (1/2" / 12.7mm) AC DISCHARGE HOSE RUN
9. THERMOSTAT CONTROL WIRE TO THERMOSTAT
10. THERMOSTAT DISPLAY PANEL
11. AC COMPRESSOR POWER LEADS TO MAIN DIST. PANEL

SEE PAGE 65B FOR WIRE SIZES AND COLORS



SECTION 63E OPTIONAL GENERATOR SYSTEM...

BASIC OPERATING INSTRUCTIONS: (NOTE: READ GENERATOR MANUAL BEFORE OPERATING GEN.)

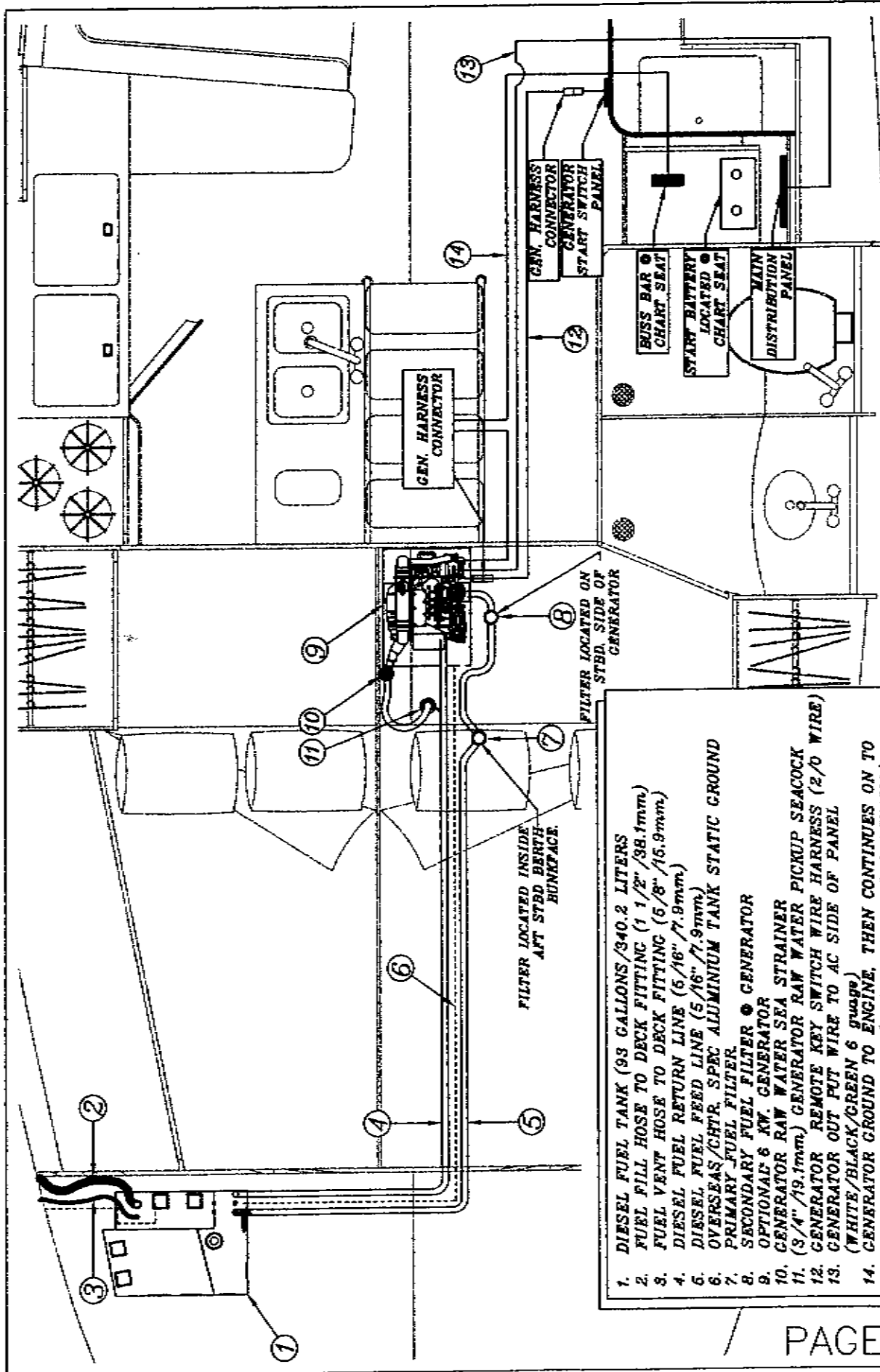
- ① FILL DIESEL FUEL TANK WITH DIESEL FUEL
- ② CHECK OIL LEVEL IN GENERATOR (SEE GEN. MANUAL FOR INST.)
- ③ TURN ON START BATTERY SELECTOR SWITCH (AT NAV. STA.)
- ④ CHECK SEA STRAINER (INSIDE SHAFT LOG COMPARTMENT, AFT OF ENGINE)
- ⑤ OPEN RAW WATER SEACOCK (INSIDE SHAFT LOG COMPARTMENT, AFT OF ENGINE)
- ⑥ PUSH START SWITCH ON GEN. START PANEL AT NAV. STATION TO START GEN. DO NOT RUN STARTER FOR MORE THAN 10 SECONDS AT A TIME WITH 15 SECONDS INBEETWEEN. IF GENERATOR DOESN'T START CONSULT THE GENERATOR MANUAL.
- ⑦ TURN ON THE "GENERATOR" BREAKER ON "A" SIDE OF MAIN A.C. PANEL. TO POWER "B" SIDE. RAISE THE SLIDE BAR ON "B" SIDE OF MAIN A.C. PANEL AND TURN "PARALLEL" BREAKER "ON". A.C. PANEL SHOULD NOW BE OPERABLE.
- ⑧ TO SHUT GEN. DOWN PUSH STOP SWITCH UNTIL GEN STOPS.

NOTE: SEE GENERATOR MANUAL FOR PROPER MAINTENANCE, TROUBLESHOOTING, ETC.

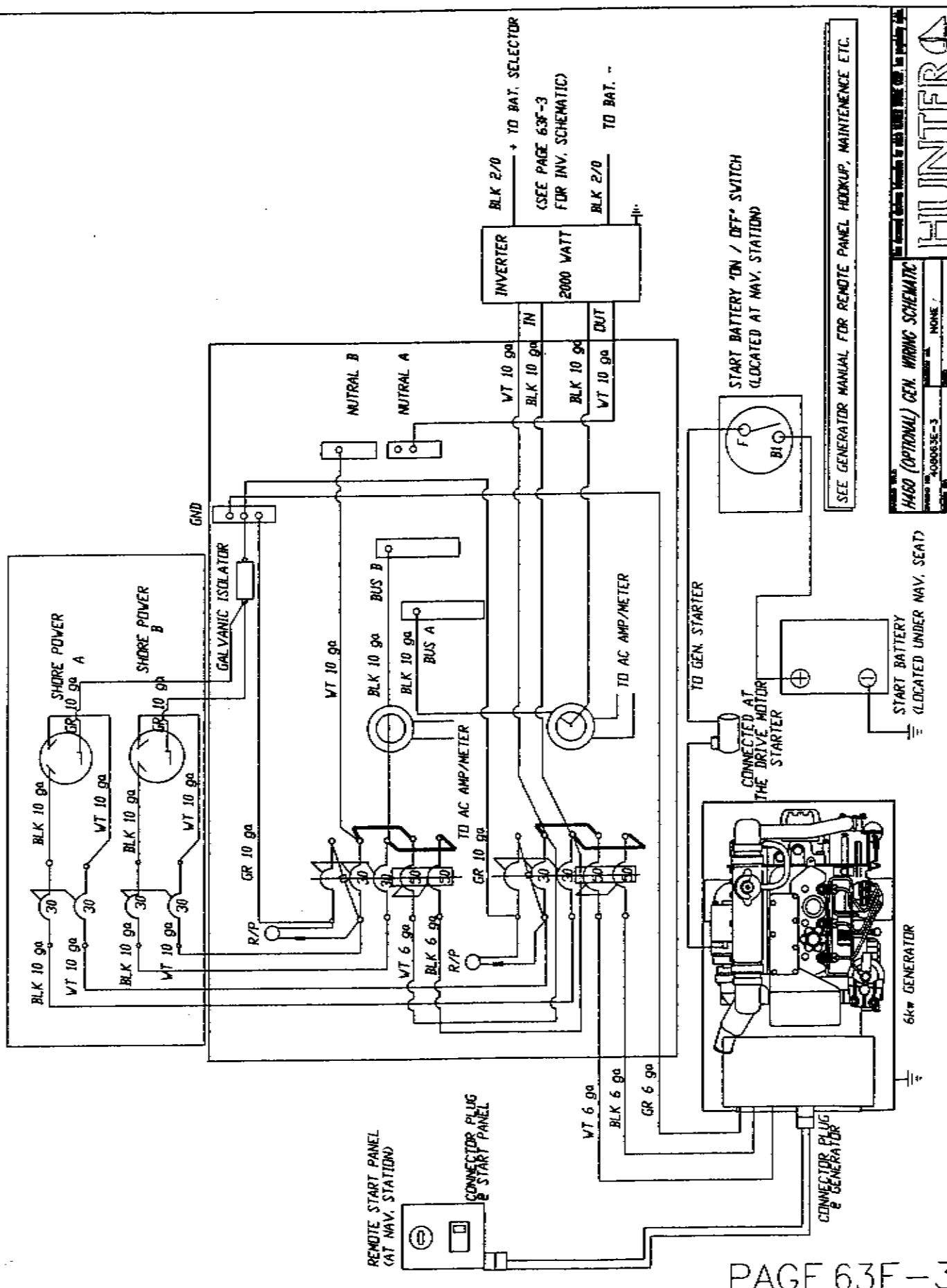
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HUNTERA

OPERATION INSTRUCTIONS
808083E-1
ENGINEERING DEPT.
DATE: 2/3/08



1. DIESEL FUEL TANK (93 GALLONS/340.2 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 (5/16" / 7.9mm)
5. DIESEL FUEL FEED LINE (5/16" / 7.9mm)
6. OVERSEAS/CHTR. SPEC ALUMINIUM TANK STATIC GROUND
7. PRIMARY FUEL FILTER
8. SECONDARY FUEL FILTER @ GENERATOR
9. OPTIONAL 6 KW. GENERATOR
10. GENERATOR RAW WATER SEA STRAINER
11. (3/4" / 19.1mm) GENERATOR RAW WATER PICKUP SEACOCK
12. GENERATOR REMOTE KEY SWITCH WIRE HARNESS (2/0 WIRE)
13. GENERATOR OUT PUT WIRE TO AC SIDE OF PANEL (WHITE/BLACK/GREEN 6 #4000)
14. GENERATOR GROUND TO ENGINE, THEN CONTINUES ON TO BUSS BAR AT CHART SEAT (SEE PG 64A-2 FOR DETAILS)



SEE GENERATOR MANUAL FOR REMOTE PANEL HOOKUP, MAINTENANCE ETC.

HUNTER 4
 H460 (OPTIONAL) GEN. WIRING SCHEMATIC
 PART NO. 40003E-3
 REV. 2/3/99
 ENGINEERING DEPT.

SECTION 63F.....INVERTER SYSTEM

BASIC OPERATING INSTRUCTIONS: (FOR INVERTING D.C. POWER TO A.C. POWER)

- ① TURN INVERTER THE DRAW SELECTOR (HOUSE BATTERY) SWITCH TO EITHER THE "1, 2, OR BOTH" POSITIONS.
- ② TURN ON INVERTER REMOTE PANEL AT THE NAVIGATION STATION.
- ③ TURN ON APPROPRIATE APPLIANCE BREAKER ON A.C. SIDE OF PANEL.

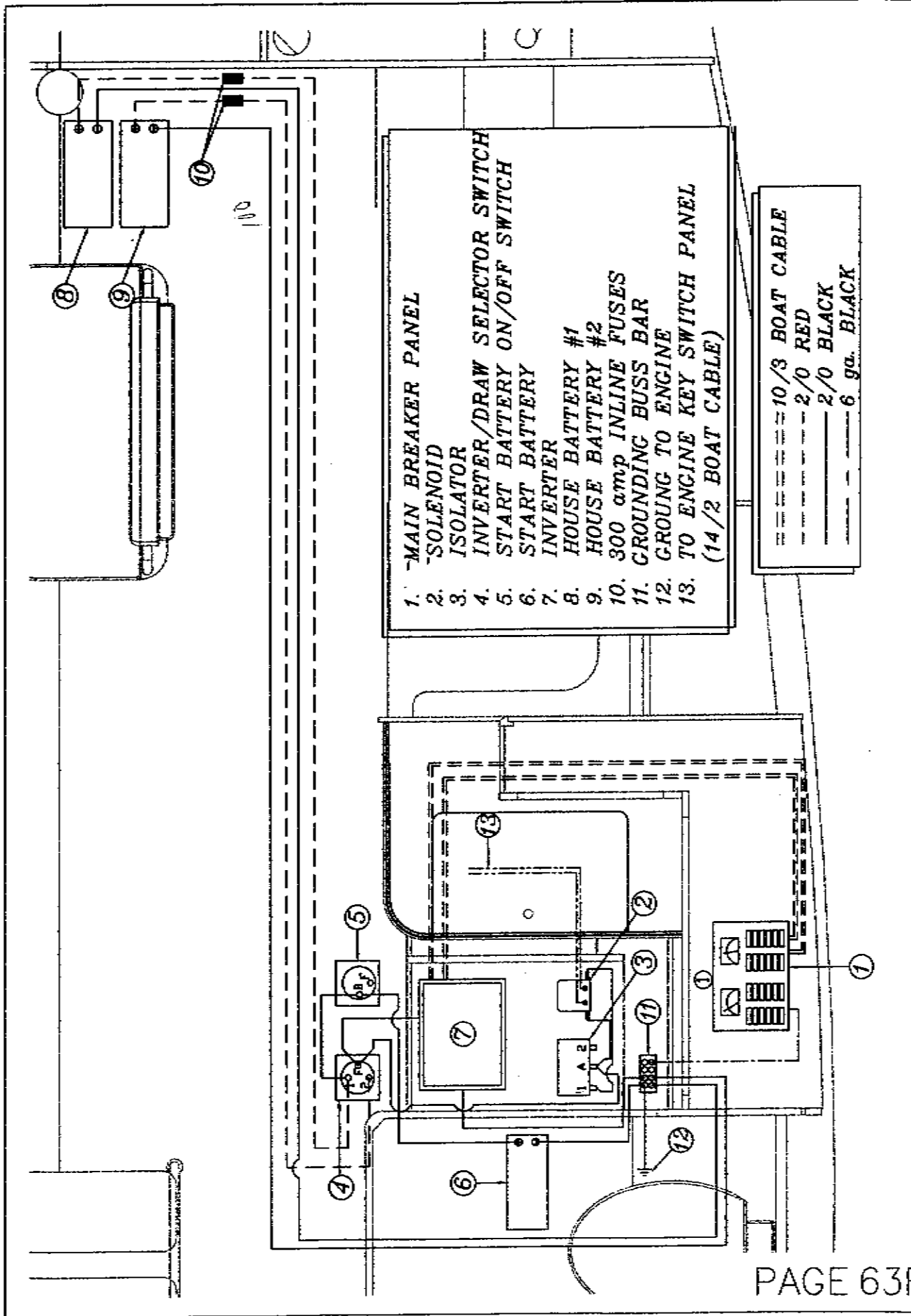
NOTE:

READ "INVERTER" SECTION ON PAGE 63A-2 FOR INVERTER SYSTEM DETAILS

SEE INVERTER MANUAL FOR TECHNICAL DATA, TROUBLESHOOTING, ETC.
OPERATING/PROGRAMMING INSTRUCTIONS

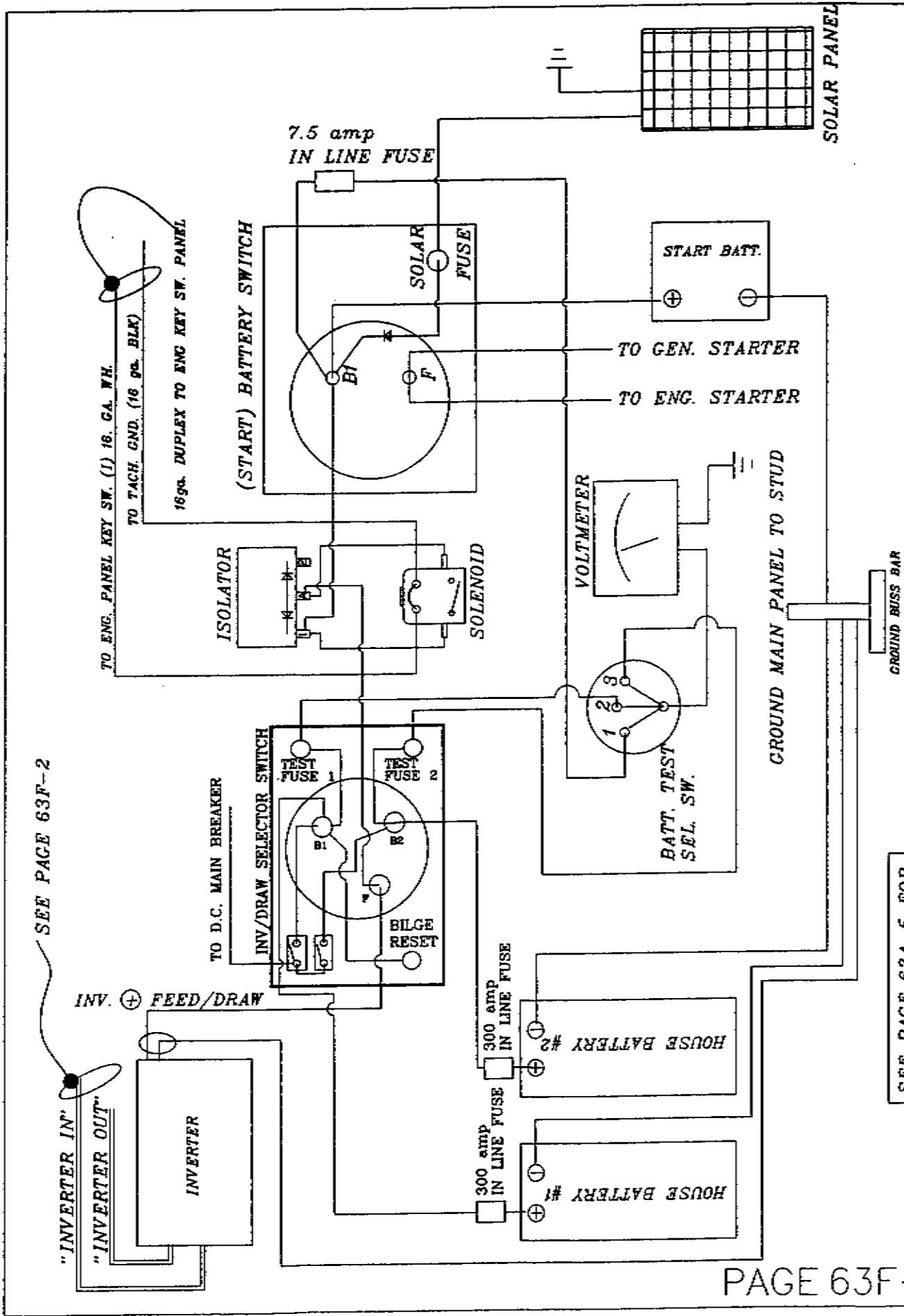
| | |
|--------------------------------------|--------|
| 1460 INVERTER OPERATING INSTRUCTIONS | |
| 260063F-1 | HOME |
| ENGINEERING DEPT. | 2/3/99 |

HUNTERC



1. MAIN BREAKER PANEL
2. SOLENOID
3. ISOLATOR
4. INVERTER/DRAW SELECTOR SWITCH
5. START BATTERY ON/OFF SWITCH
6. START BATTERY
7. INVERTER
8. HOUSE BATTERY #1
9. HOUSE BATTERY #2
10. 300 amp INLINE FUSES
11. GROUNDING BUSS BAR
12. GROUNDING TO ENGINE
13. TO ENGINE KEY SWITCH PANEL (14/2 BOAT CABLE)

| | |
|-------|-----------------|
| ----- | 10/3 BOAT CABLE |
| ----- | 2/0 RED |
| ----- | 2/0 BLACK |
| ----- | 6 ga. BLACK |



SEE PAGE 63F-2

INV. FEED/DRAW

TO D.C. MAIN BREAKER

TO ENG. PANEL KEY SW. (1) 16 GA. WH.

TO TACH. GND. (16 ga. BLK)

18 ga. DUPLEX TO ENG KEY SW. PANEL

(START) BATTERY SWITCH

7.5 amp
IN LINE FUSE

SOLAR
FUSE

TO GEN. STARTER

TO ENG. STARTER

ISOLATOR

SOLENOID

VOLTMETER

BATT. TEST
SEL. SW.

GROUND MAIN PANEL TO STUD

GROUND BUSS BAR

SOLAR PANEL

"INVERTER IN"
"INVERTER OUT"
INVERTER

300 amp
IN LINE FUSE

300 amp
IN LINE FUSE

HOUSE BATTERY #2

HOUSE BATTERY #1

SEE PAGE 63A-5 FOR
COMPONENT LOCATIONS

HUNTER

H460 INVERTER SYSTEM SCHEMATIC

REVISED 2/72/90

DATE: 2/72/90

BY: ENGINEERING DEPT.

NO. 1608083F-3

REV. NO. NONE

SECTION 63G...REFRIGERATION SYSTEM

BASIC OPERATING INSTRUCTIONS:

- ① CHECK SEA STRAINER & OPEN RAW WATER PICK UP SEACOCK (IN MID CABIN MAIN BILGE LOCKER)
- ② ENSURE THE 3/4" (19.1mm) DISCHARGE SEACOCK IS OPEN.
(SEACOCK ACCESSED THRU HOLE IN SETTEE BACK, BEHIND AFT PORT SETTEE CUSHION.)
- ③ SELECT HOUSE #1 OR #2 AT INVERTER / DRAW SELECTOR SWITCH,
UNLESS ON SHORE POWER OR GENERATOR (LOCATED AT NAVIGATION STATION)
- ④ TURN ON MAIN A.C. BREAKER AT MAIN "A" SIDE BREAKER PANEL
- ⑤ TURN ON REFRIG. BREAKER
- ⑥ SET THERMOSTATS TO DESIRED TEMP.

NOTE: KEEP SEA STRAINER CLEAN TO PREVENT IMPROPER CIRCULATION
IF LEAVING UNIT ON WHEN AWAY FROM BOAT
BE SURE SHORE POWER CABLES ARE CONNECTED.
INVERTER WILL PREVENT BATTERY DRAIN
(INVERTER "CHARGE" CIRCUIT
IS AUTOMATIC IF SHORE POWER IS CONNECTED AND HAS
POWER TO MAIN DISTRIBUTION PANEL.)

OPERATING INSTRUCTIONS FOR HOLDOVER PLATE SYSTEM

OPERATING INSTRUCTIONS FOR THE REFRIGERATION SYSTEM
ON THE HUNTER 450 AND 460.

TURN THE BREAKER ON AT THE SHIP'S PANEL AND SET BOTH THERMOSTATS TO THE COLDEST SETTING. ATTACH A THERMOMETER TO THE FREEZER PLATES NEAR THE SENSING TUBE OF THE THERMOSTAT. PLACE ANOTHER THERMOMETER IN THE CENTER OF THE REFRIGERATOR. ALLOW THE SYSTEM TO RUN UNTIL THE FREEZER PLATE REACHES -4°F . TURN THE FREEZER THERMOSTAT COUNTERCLOCKWISE UNTIL YOU HEAR A CLICK WHICH INDICATES THAT THE THERMOSTAT HAS SATISFIED. WHEN THE REFRIGERATOR BOX REACHES 38° , TURN THE REFRIGERATOR THERMOSTAT COUNTERCLOCKWISE UNTIL THE SYSTEM CYCLES OFF.

KEEP IN MIND THAT THE FREEZER OPERATES DIFFERENTLY THAN THE REFRIGERATOR. IN THE FREEZER, THE THERMOSTAT CONTROLS THE PLATE TEMPERATURE AND IN THE REFRIGERATOR, THE THERMOSTAT CONTROLS THE BOX TEMPERATURE.

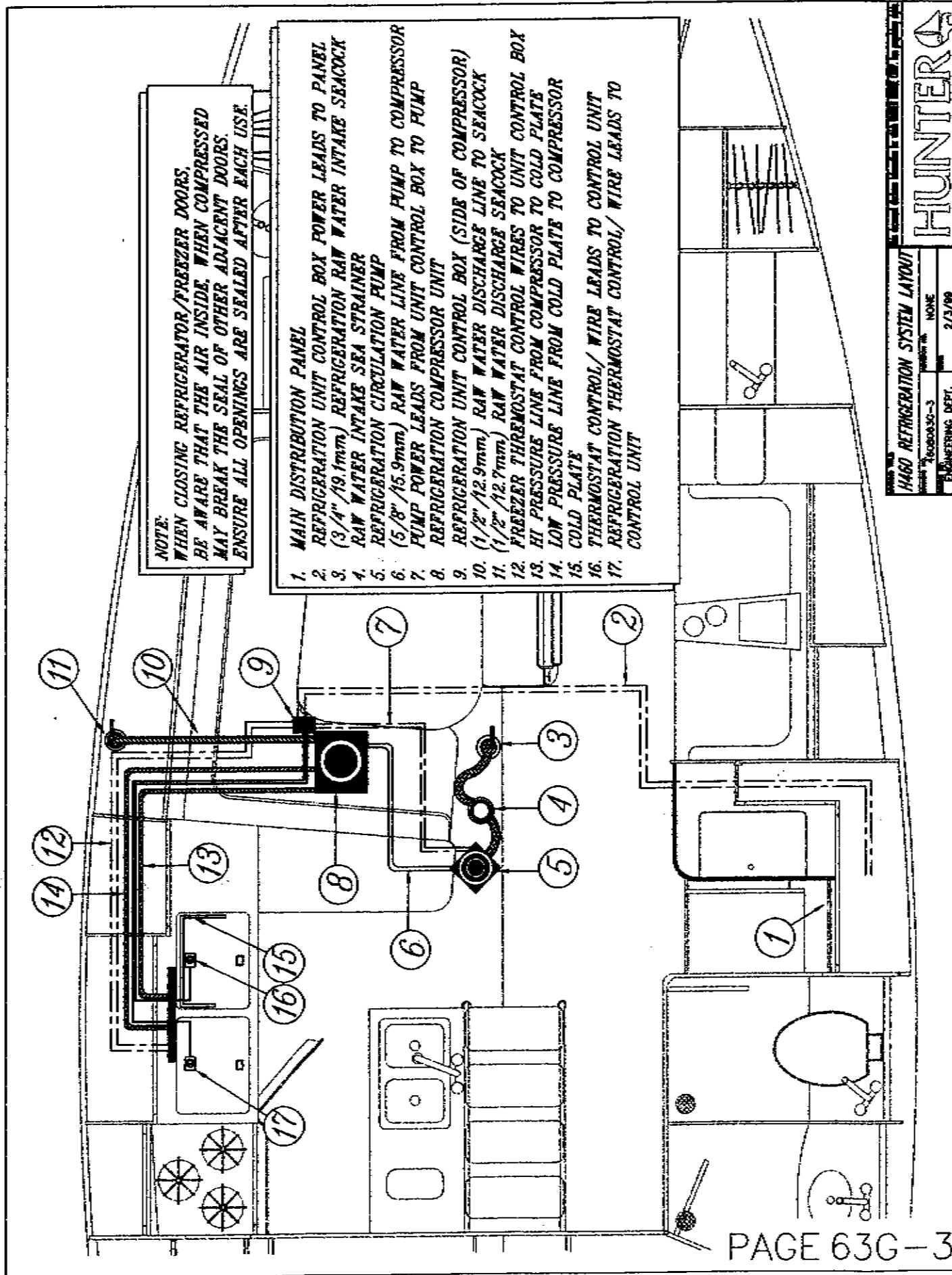
DRIVING THE FREEZER PLATE TEMPERATURE LOWER THAN -4°F WILL RESULT IN EXTENDED RUN TIME AND WILL NOT ACHIEVE ANY BETTER PERFORMANCE.

THIS SYSTEM IS NOT FROST FREE. FROST MAY BUILD UP ON THE PLATES WHICH WILL REQUIRE PERIODIC DEFROSTING.

IF IT BECOMES NECESSARY TO DEFROST THE PLATES, TURN THE SYSTEM OFF AT THE SHIP'S PANEL, REMOVE THE DRAIN PLUG FROM THE BOTTOM OF THE REFRIGERATOR AND POUR SOME TAP WATER OVER THE PLATES. WIPE WITH A CLEAN CLOTH AND THEN REPLACE THE DRAIN PLUG. (NOTE: THE DRAIN PLUG MUST BE IN PLACE FOR PROPER OPERATION OF THE SYSTEM.) TURN THE SYSTEM ON TO RESUME OPERATION. IT IS NOT NECESSARY TO MAKE ANY ADJUSTMENTS TO THE THERMOSTATS AFTER DEFROSTING.

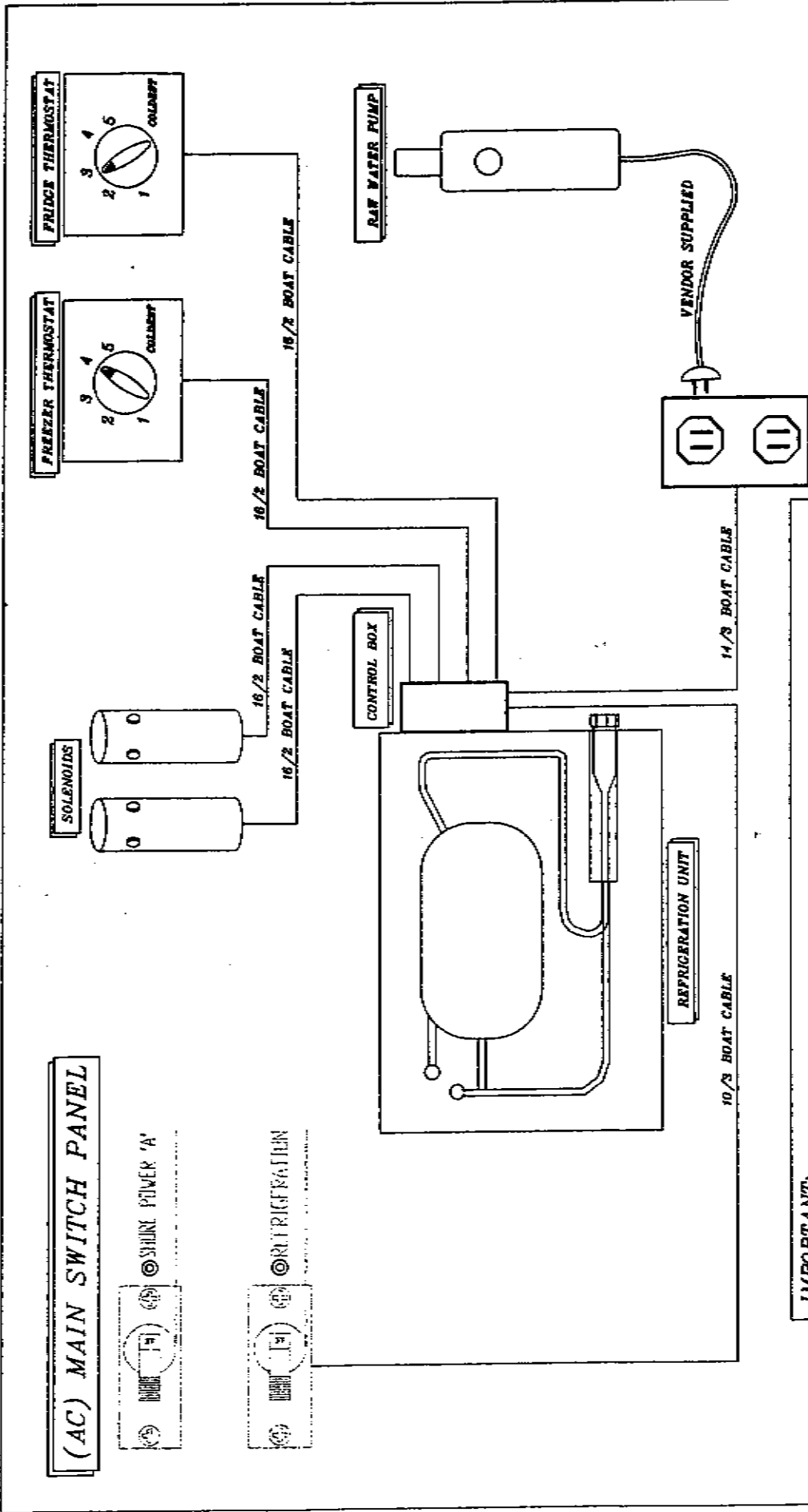
LIVE ABOARDS, MAY EXPERIENCE THE NEED FOR MORE FREQUENT DEFROSTING DUE TO HEAVIER USE. UNDER THESE CONDITIONS THEY MAY ALSO EXPERIENCE EXTENDED DUTY CYCLES.

1460 HOLDOVER PLATE SYSTEM INSTRUCTIONS
460063G-2
ENGINEERING DEPT.
NONE
2/3/99
HUNTER



NOTE:
 WHEN CLOSING REFRIGERATOR/FREEZER DOORS,
 BE AWARE THAT THE AIR INSIDE, WHEN COMPRESSED
 MAY BREAK THE SEAL OF OTHER ADJACENT DOORS.
 ENSURE ALL OPENINGS ARE SEALED AFTER EACH USE.

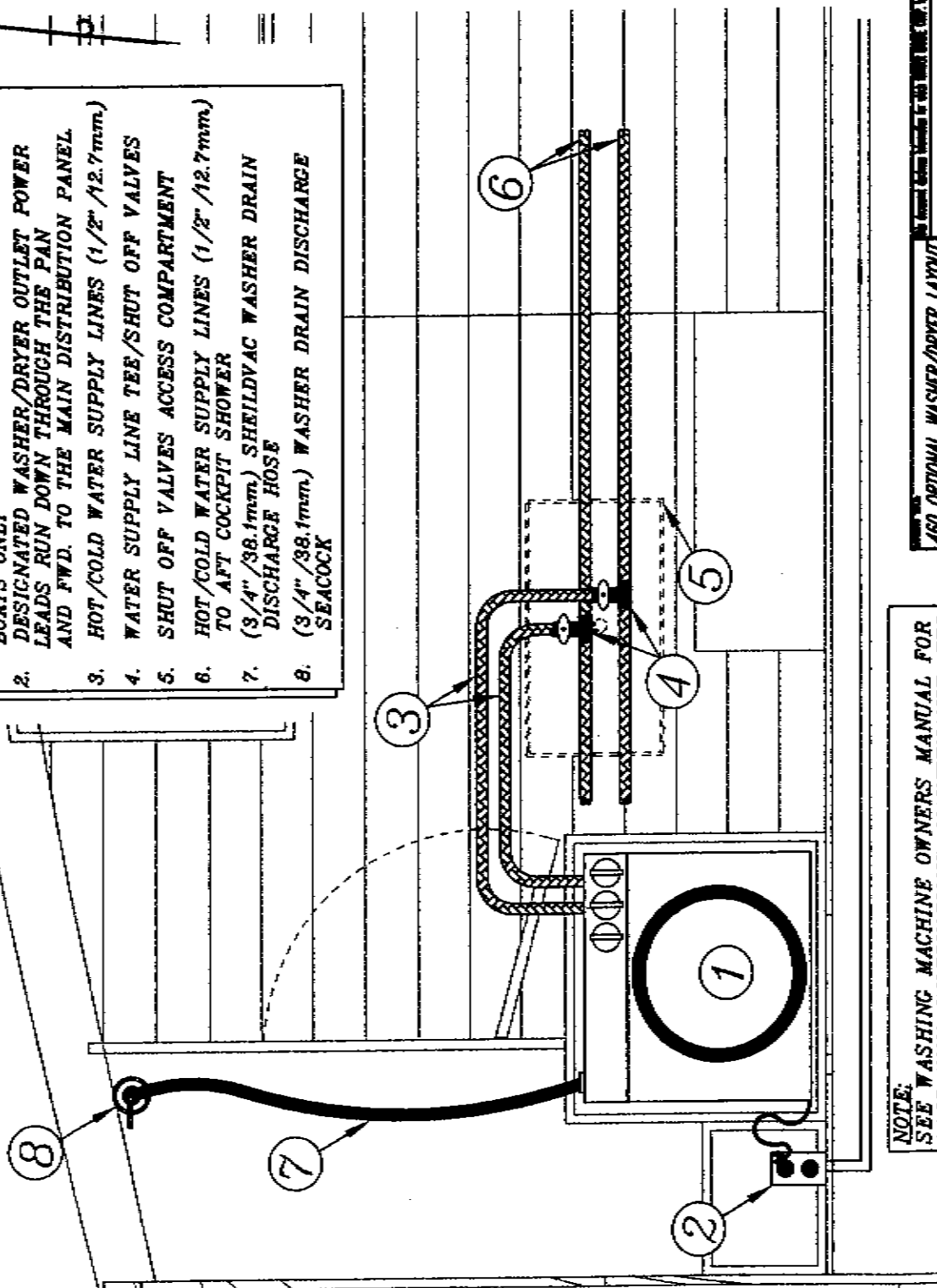
- MAIN DISTRIBUTION PANEL**
1. REFRIGERATION UNIT CONTROL BOX POWER LEADS TO PANEL
 2. (3/4" /19.1mm) REFRIGERATION RAW WATER INTAKE SEACOCK
 3. RAW WATER INTAKE SEA STRAINER
 4. REFRIGERATION CIRCULATION PUMP
 5. (5/8" /15.9mm) RAW WATER LINE FROM PUMP TO COMPRESSOR
 6. PUMP POWER LEADS FROM UNIT CONTROL BOX TO PUMP
 7. REFRIGERATION COMPRESSOR UNIT
 8. REFRIGERATION UNIT CONTROL BOX (SIDE OF COMPRESSOR)
 9. (1/2" /12.9mm) RAW WATER DISCHARGE LINE TO SEACOCK
 10. (1/2" /12.7mm) RAW WATER DISCHARGE SEACOCK
 11. FREEZER THERMOSTAT CONTROL WIRES TO UNIT CONTROL BOX
 12. HI PRESSURE LINE FROM COMPRESSOR TO COLD PLATE
 13. LOW PRESSURE LINE FROM COLD PLATE TO COMPRESSOR
 14. COLD PLATE
 15. THERMOSTAT CONTROL/ WIRE LEADS TO CONTROL UNIT
 16. REFRIGERATION THERMOSTAT CONTROL/ WIRE LEADS TO CONTROL UNIT
 - 17.



IMPORTANT:
 THE REFRIGERATION RAW WATER PUMP PLUGS DIRECTLY INTO AN A.C. RECEPTACLE LOCATED INSIDE THE PORT SETTEE ON THE AFT INTERIOR FACE. THE RECEPTACLE IS WIRED DIRECTLY TO THE REFRIGERATION CONTROL BOX. THIS WAS DONE TO SIMPLIFY THE "CHANGING OUT" OF THE WATER PUMP IN CASE OF A MALFUNCTION. BE AWARE OF THE RECEPTACLE THE PLUG WAS ORIGINALLY PLUGGED INTO. (UPPER OR LOWER PLUG). DUE TO THE FACT THAT THE OTHER RECEIVER MAY NOT HAVE A POWER FEED OR MAY BE ASSIGNED TO THE OPTIONAL AIR CONDITIONING RAW WATER PUMP.

NOTE:
 BE SURE THAT THE WASHER DISCHARGE SEACOCK IS OPEN DURING DRAINAGE, AND CLOSED WHEN MACHINE IS NOT IN USE. IMPORTANT: BE AWARE OF LOCAL REGULATIONS REGARDING OVERBOARD DISCHARGES OF "GRAY WATER" BEFORE USING THIS SYSTEM.

- NOTES:** WHEN A WASHER AND DRYER IS OPTIONED, A 15 amp FUSE IS INSTALLED @ THE MAIN BREAKER PANEL, LOCATED @ NAV STATION.
1. WASHER/DRYER UNIT LOCATED IN PORT AFT STRM. IN OFFICE/WORK BENCH OPTIONED BOATS ONLY
 2. DESIGNATED WASHER/DRYER OUTLET POWER LEADS RUN DOWN THROUGH THE PAN AND FWD. TO THE MAIN DISTRIBUTION PANEL
 3. HOT/COLD WATER SUPPLY LINES (1/2" /12.7mm.)
 4. WATER SUPPLY LINE TEE/SHUT OFF VALVES
 5. SHUT OFF VALVES ACCESS COMPARTMENT
 6. HOT/COLD WATER SUPPLY LINES (1/2" /12.7mm.) TO AFT COCKPIT SHOWER
 7. (3/4" /38.1mm.) SHEILDVAC WASHER DRAIN DISCHARGE HOSE
 8. (3/4" /38.1mm.) WASHER DRAIN DISCHARGE SEACOCK



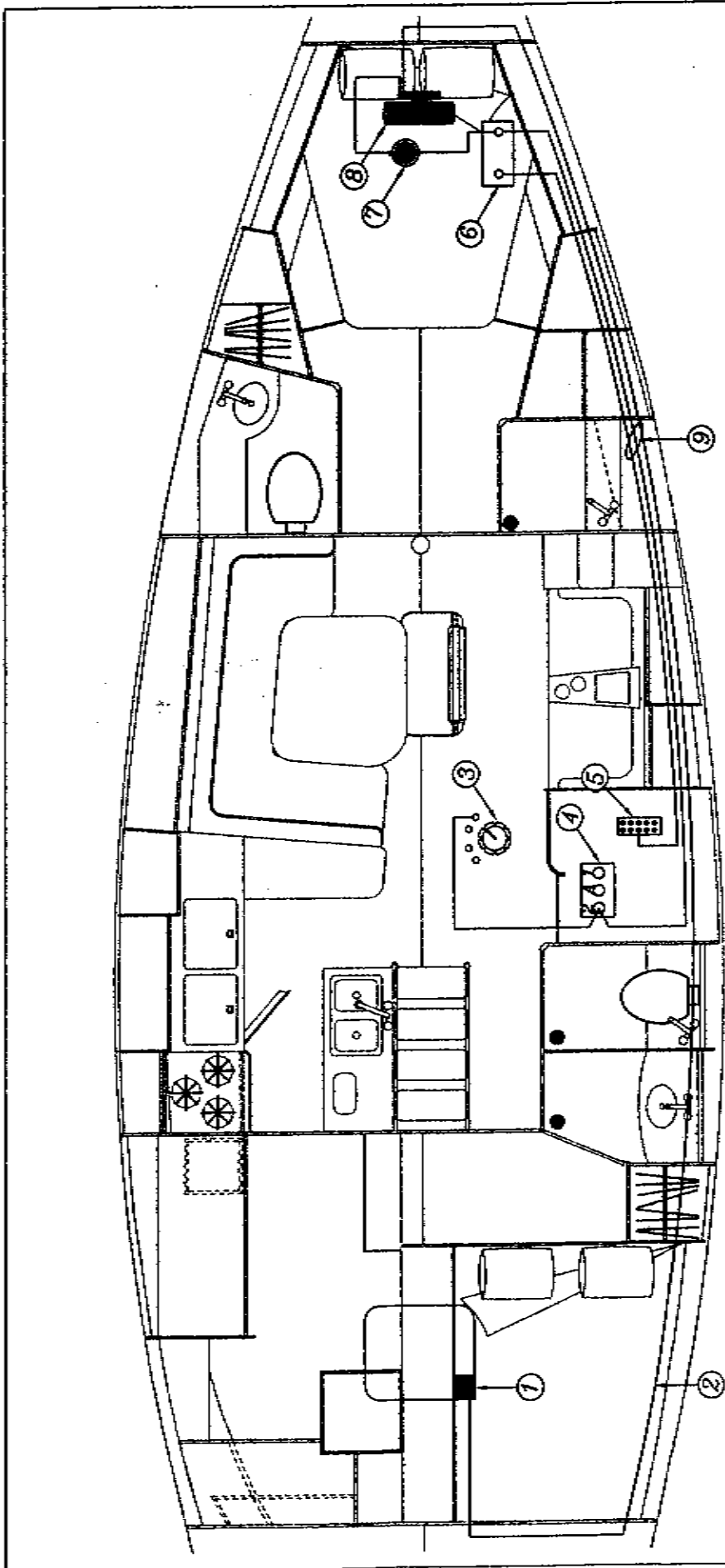
NOTE:
 SEE WASHING MACHINE OWNERS MANUAL FOR OPERATING INSTRUCTIONS, MAINTENANCE, ETC.

HUNTER 460 OPTIONAL WASHER/DRYER LAYOUT

PROJECT NO. 460063H MODEL NO. NONE 2/11/99

ENGINEERING DEPT.

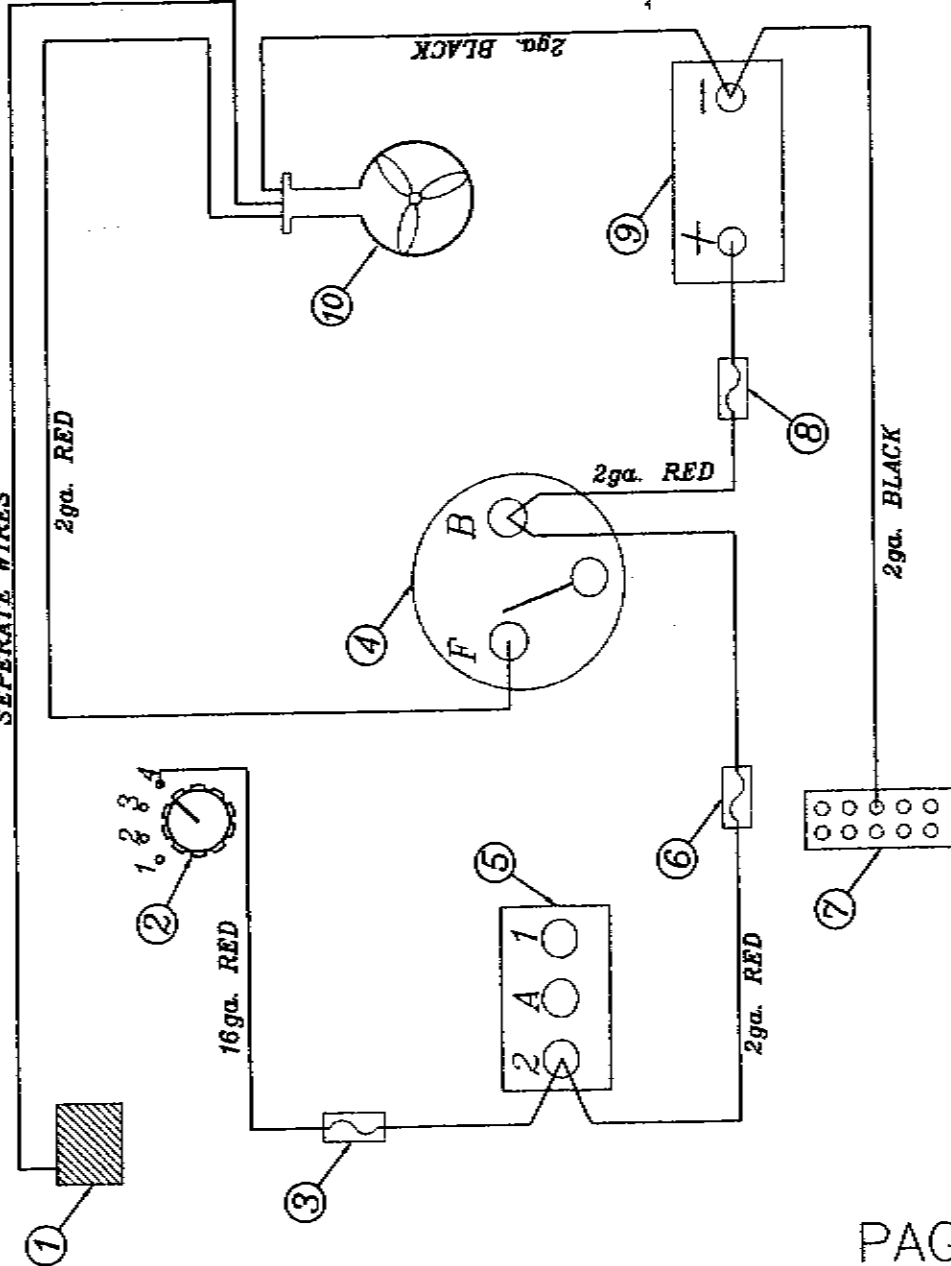
HUNTER 4



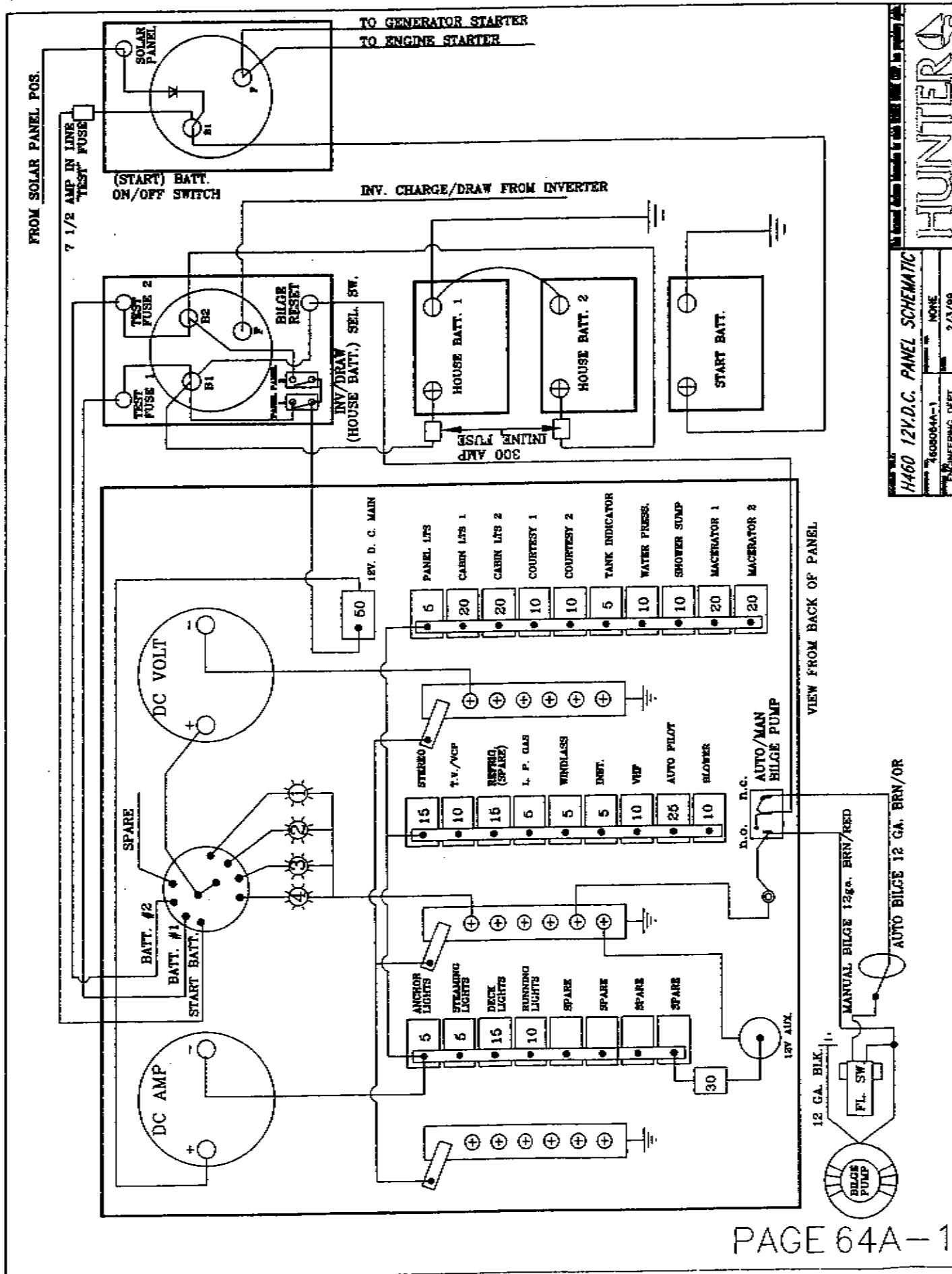
- IMPORTANT NOTES:**
1. BOW THRUSTER REMOTE CONTROL LOCATION (ON COCKPIT CONSOLE)
 2. REMOTE WIRE RUNS (THRU HEADLINER) 4 WIRES
 3. BATTERY TEST PANEL SELECTOR SWITCH (● MAIN DIST. PANEL)
 4. ISOLATOR LOCATION (UNDER NAVIGATION SEAT)
 5. GROUNDING STUD LOCATION (BEHIND NAVIGATION STATION)
 6. POWER SOURCE (BATTERY LOCATION) UNDER FWD V-BERTH)
 7. BATTERY ON / OFF SWITCH LOCATION (UNDER FWD V-BERTH)
 8. BOW THRUSTER
 9. POWER / ISOLATOR LEADS (THRU PAN)

1. SEE PAGE 63J FOR MORE DETAILS AND A SCHEMATIC FOR THE OPTIONAL BOW THRUSTER AND ITS COMPONENTS
2. SEE BOW THRUSTER OWNERS MAUNAL FOR GUIDELINES, INSTRUCTIONS AND MAINTENANCE. (EX: OIL FILL RESIVOIR AND BATTERY STATUS WHEN NOT IN USE.)

16 ga. (BLUE, RED,
GRAY, BLACK) 4
SEPERATE WIRES



1. BOW THRUSTER REMOTE CONTROL BOX (LOCATED @ COCKPIT CONSOLE)
2. BATTERY TEST SWITCH (LOCATED @ NAVIGATION STATION)
3. 30 amp IN-LINE FUSE
4. BATTERY ON/OFF SWITCH (LOCATED FWD BULKHEAD)
5. ISOLATOR (LOCATED UNDER NAVIGATION SEAT)
6. 300 amp IN-LINE FUSE
7. GROUND BUSS BAR (LOCATED UNDER NAVIGATION SEAT)
8. 200 amp IN-LINE FUSE
9. BATTERY (LOCATED UNDER FWD V-BERTH)
10. OPTIONAL 12 VOLT BOW THRUSTER



HUNTER

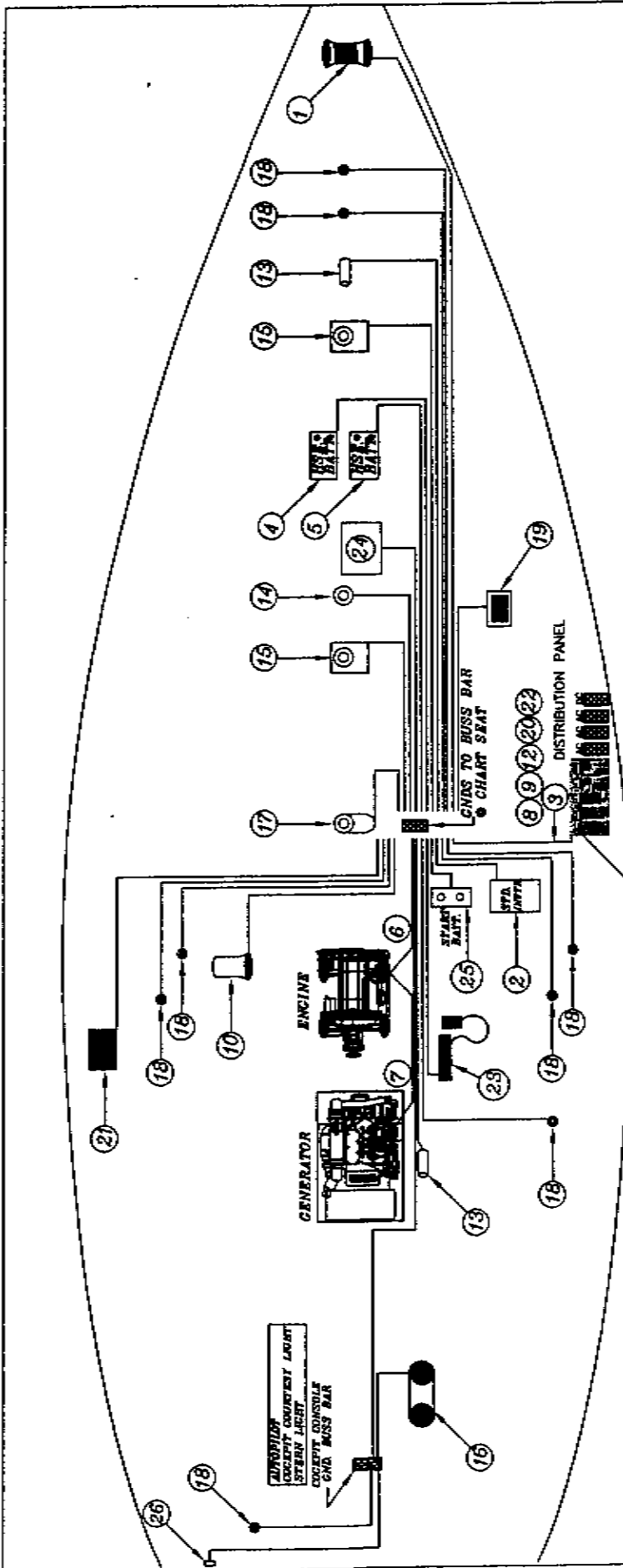
H460 12V.D.C. PANEL SCHEMATIC

6080044-1

NONE

ENGINEERING DEPT

2/3/89



GROUND WIRE/CABLE SPecs: (ALL WIRES NOTED BELOW ARE (BLACK) GROUND)

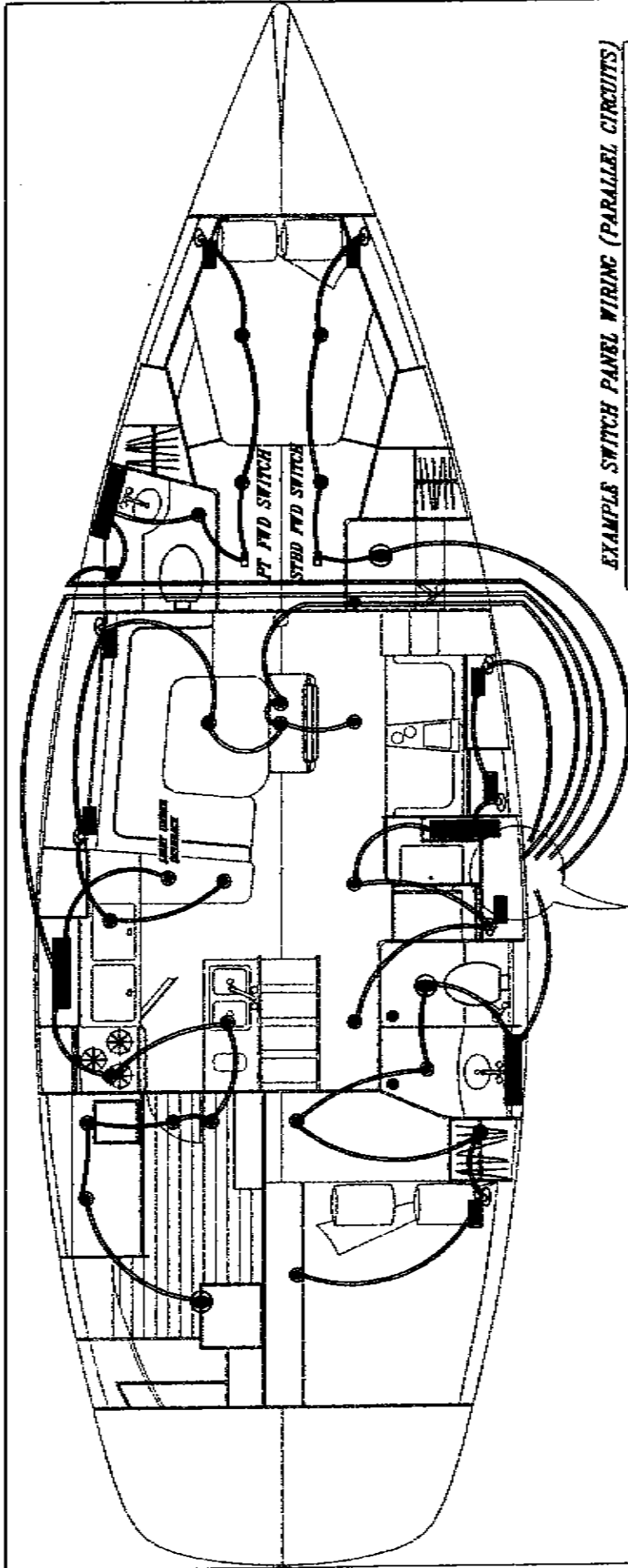
- | | |
|---|---|
| 1 WINDLASS (OPTIONAL).....2 ga. WIRE | 14 BLOE PUMP.....12 ga. WIRE |
| 2 INVERTER.....2/0 CABLE | 15 SHOWER SUMP(S).....18 ga. WIRE |
| 3 PANEL GND. TO BUSS BAR.....6 ga. WIRE | 16 OPTIONAL AUTO PILOT.....8 ga. WIRE |
| 4 HOUSE BATT. #1 GND TO BUSS BAR.....2/0 CABLE | 17 WATER PRESSURE PUMP.....12 ga. WIRE |
| 5 HOUSE BATT. #2 GND TO BUSS BAR.....2/0 CABLE | 18 TANK SEND UNIT.....16 ga. WIRE |
| 6 ENGINE GND. TO BUSS BAR.....2/0 CABLE | 19 TV/VCR.....16 ga. WIRE |
| 7 GENERATOR (OPTIONAL) GND. TO ENGINE.....2/0 CABLE | 20 STEREO.....16 ga. WIRE |
| 8 TO PORT CTSY LIGHTS.....16 ga. WIRE | 21 L.P.C. SOLENOID.....16 ga. WIRE |
| 9 ALL CABIN LIGHTS.....16 ga. WIRE | 22 INSTRUMENTS.....MANUF. SUPPLIED CABLE |
| 10 OPTIONAL ELEC. HALTARD.....2 ga. WIRE | 23 VHF RADIO.....18 ga. WIRE |
| 11 COCKPIT GROUND TO BACK OF PANEL.....6 ga. WIRE | 24 ANC./STEAM./DECK/RUNNING LIGHTS |
| 12 STARBOARD CTSY. LIGHTS.....16 ga. WIRE | (TERMINAL STRIP ATOP COMP POST).....16 ga. WIRE |
| 13 MACERATOR(S).....10 ga. WIRE | 25 START BATTERY.....2/0 CABLE |
| | 26 STERN LIGHT.....16 ga. WIRE |

NOTE: WIRE RUNS & COMPNTS. ARE SHOWN IN SCHEMATIC FORM FOR CLARITY

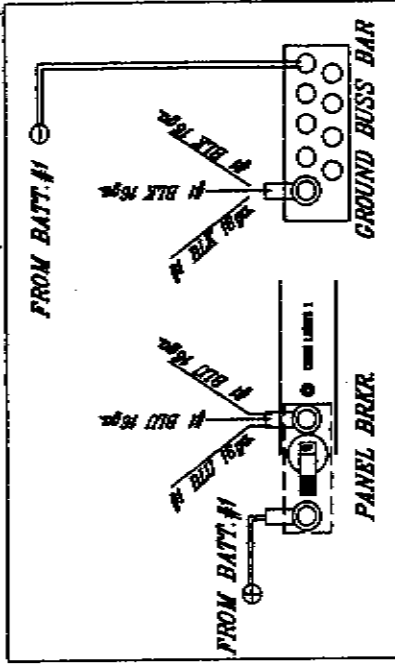
1460 D.C. GROUNDING SYSTEM LAYOUT

| | | | |
|-------------------|--------|------|--------|
| NO. 1460 | REV. 1 | DATE | 2/3/99 |
| 1460DCA-2 | REV. 1 | DATE | NONE |
| ENGINEERING DEPT. | | | |

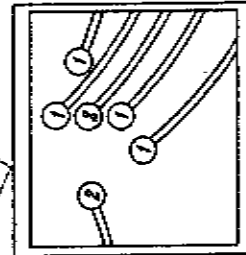
HUNTER



EXAMPLE SWITCH PANEL WIRING (PARALLEL CIRCUITS)



EACH CIRCUIT IN PARALLEL, 16ga. BLK. (LOAD TO BREAKER) AND 16ga. RED. GROUND TO GROUND BUSS BAR (SEE EX.)



#1 & #2 = CABIN LIGHTS #1 & #2 CIRCUITS TO MAIN DISTRIBUTION PANEL

| | |
|--|-------------------|
| | SWIVEL LIGHTS |
| | DOME LIGHTS |
| | RECESSED LIGHTS |
| | FLUORESCENT LIGHT |

HUNTER

H460 12V. LIGHTS WIRING (HEADLINE)

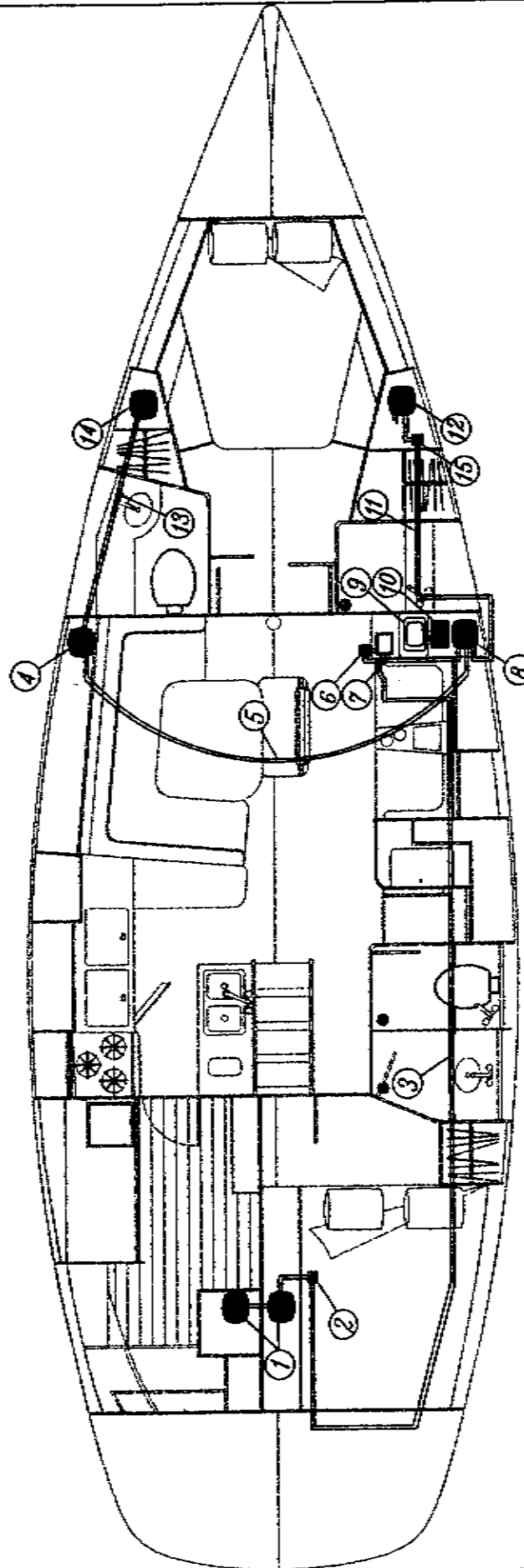
460304B-1

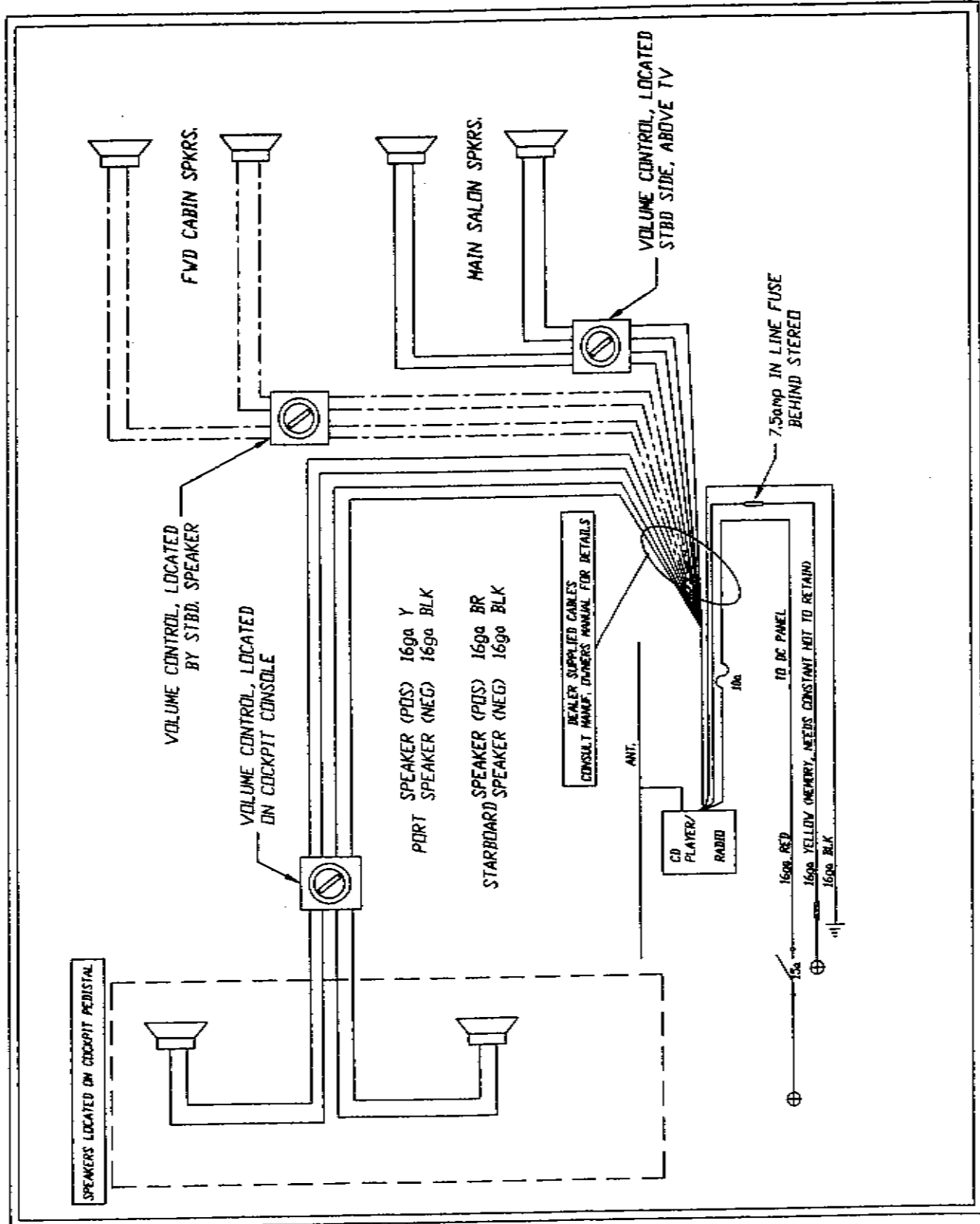
NOV 84

ENGINEERING DEPT.

2/3/99

- | | |
|---|--------------------------------------|
| 1. COCKPIT SPEAKERS (LOCATED ON COCKPIT CONSOLE) | 9. T.V./VCP |
| 2. COCKPIT SPEAKER VOLUME CONTROL (STBD. FWD CONSOLE) | 10. T.V./VCP SPEAKER |
| 3. COCKPIT SPEAKER WIRE RUN | 11. STBD FWD CABIN SPEAKER WIRE RUNS |
| 4. STBD FWD MAIN SALON SPEAKER | 12. STBD FWD CABIN SPEAKER |
| 5. STBD MAIN SALON SPEAKER WIRE RUN | 13. PORT FWD CABIN SPEAKER WIRE RUN |
| 6. MAIN SALON SPEAKER VOLUME CONTROL | 14. PORT FWD CABIN SPEAKER |
| 7. SPEAKER WIRE RUNS TO RADIO (FWD PORT MAIN SALON) | 15. FWD CABIN SPEAKER VOLUME CONTROL |
| 8. PORT FWD MAIN SALON SPEAKER | |





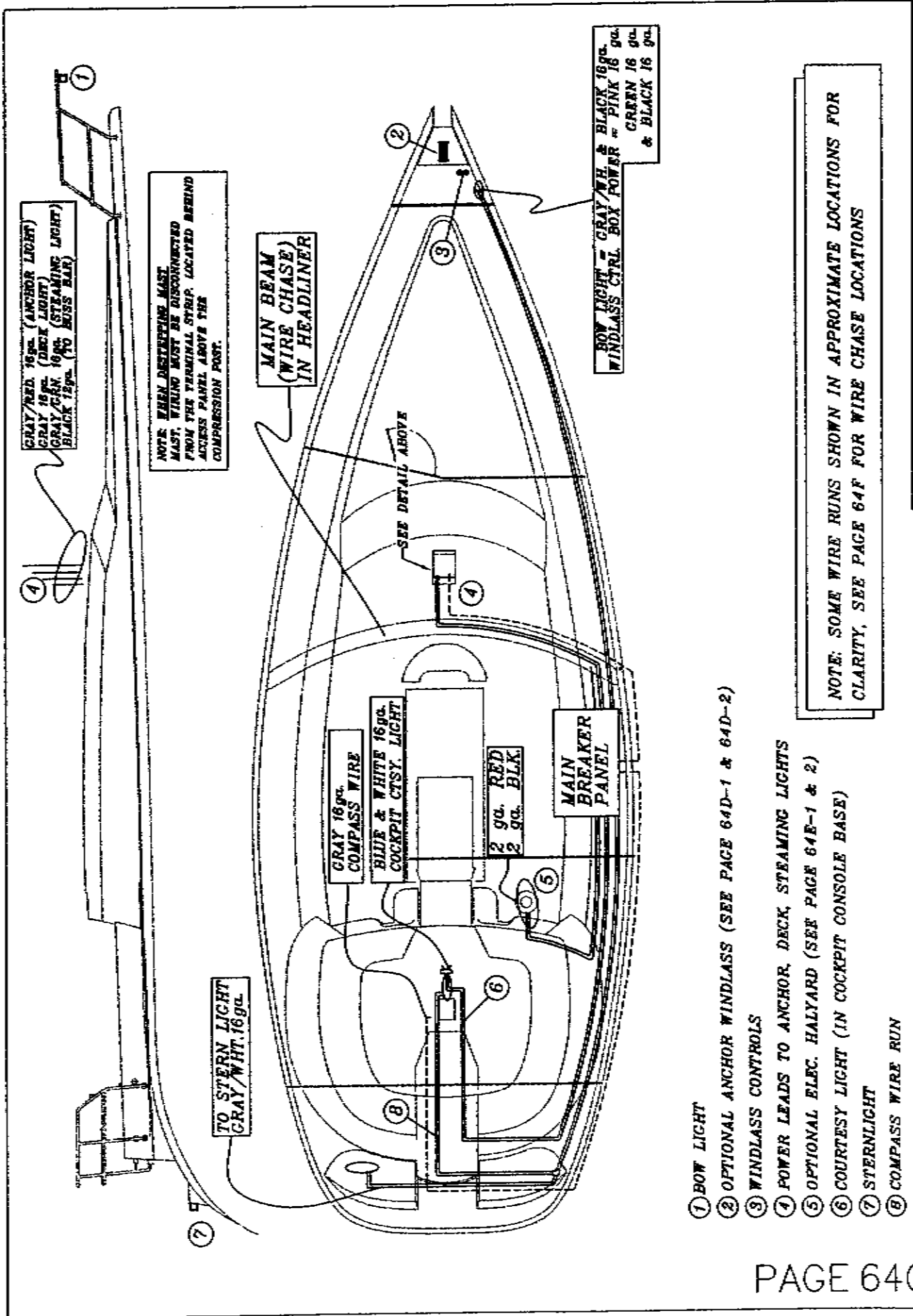
HUNTERCRAFT

H460 BASIC STEREO WIRING SCHEMATIC

7000048-3

ENGINEERING DEPT.

2/3/99



GRAY/RED. 16ga. (ANCHOR LIGHT)
 GRAY 16ga. (DECK LIGHT)
 GRAY/WH. 16ga. (STREAMING LIGHT)
 BLACK 16ga. (TO BUSS BAR)

NOTE: WHEN STEERING MAST
 MAST, WIRING MUST BE DISCONNECTED
 FROM THE TERMINAL STRIP. LOCATED BEHIND
 ACCESS PANEL ABOVE THE
 COMPRESSION POST.

MAIN BEAM
 (WIRE CHASE)
 IN HEADLINER

SEE DETAIL ABOVE

BOW LIGHT - GRAY/WH. & BLACK 16ga.
 WINDLASS CTRL. BOX POWER - PINK 16 ga.
 GREEN 16 ga.
 & BLACK 16 ga.

TO STERN LIGHT
 GRAY/WH. 16ga.

GRAY 16ga.
 COMPASS WIRE

BLUE & WHITE 16ga.
 COCKPIT CTSY. LIGHT

2 ga. RED
 2 ga. BLK.

MAIN
 BREAKER
 PANEL

- ① BOW LIGHT
- ② OPTIONAL ANCHOR WINDLASS (SEE PAGE 64D-1 & 64D-2)
- ③ WINDLASS CONTROLS
- ④ POWER LEADS TO ANCHOR, DECK, STREAMING LIGHTS
- ⑤ OPTIONAL ELEC. HALYARD (SEE PAGE 64E-1 & 2)
- ⑥ COURTESY LIGHT (IN COCKPIT CONSOLE BASE)
- ⑦ STERNLIGHT
- ⑧ COMPASS WIRE RUN

--- VHF COAX CABLE (CONNECTOR ABOVE MAST POST)

NOTE: SOME WIRE RUNS SHOWN IN APPROXIMATE LOCATIONS FOR
 CLARITY, SEE PAGE 64F FOR WIRE CHASE LOCATIONS

SECTION 64D...OPTIONAL WINDLASS SYSTEM

BASIC OPERATING INSTRUCTIONS:

LOWERING ANCHOR...

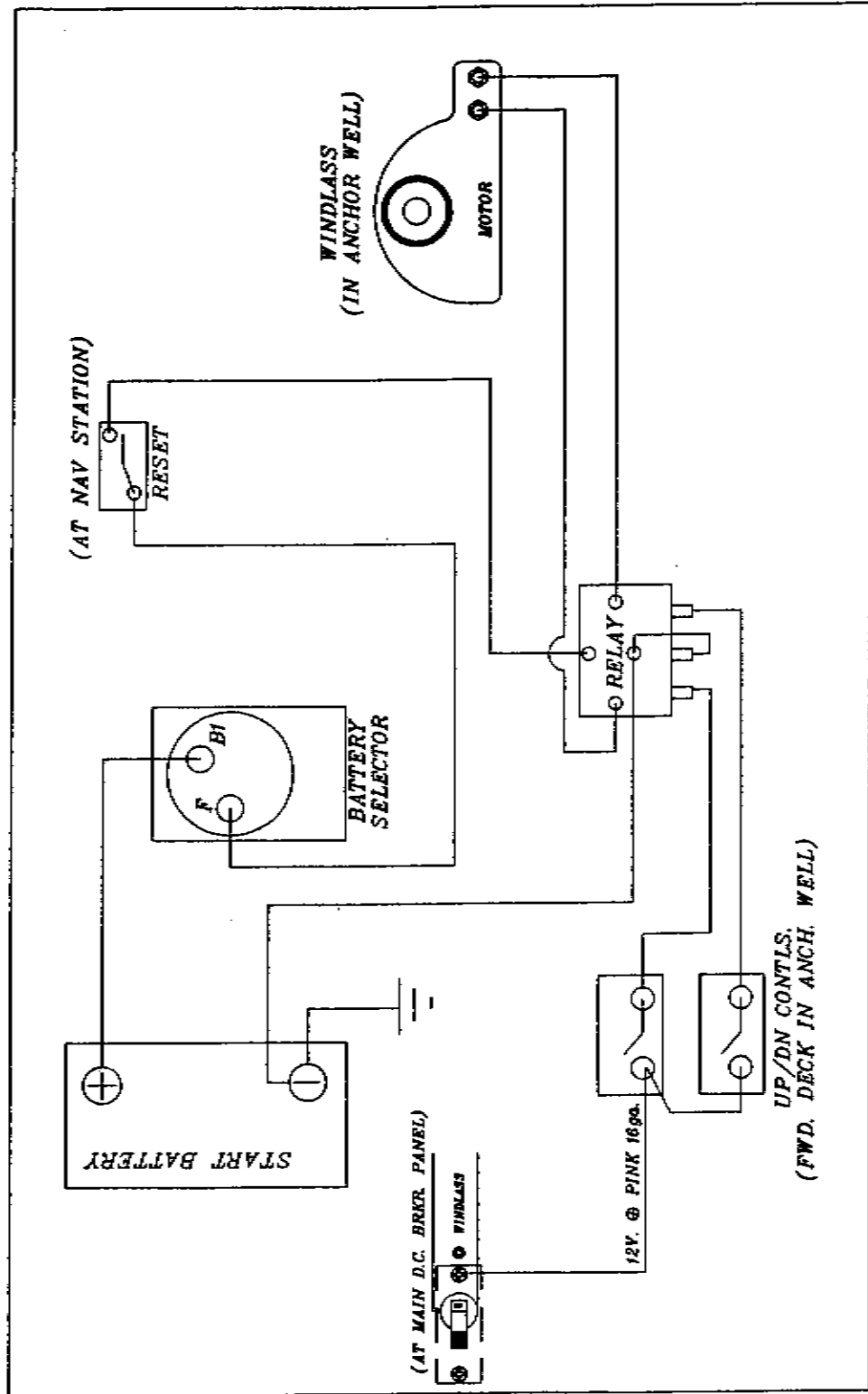
- ① TURN ON START BATTERY SWITCH UNDER NAV. STATION.
- ② TURN ON WINDLASS BRKR. ON MAIN D.C. BRKR. PANEL.
- ③ ENSURE THE RESET BREAKER @ NAVIGATION STATION IS "RESET"
- ④ PUSH WINDLASS "DOWN" BUTTON INSIDE ANCHOR WELL LOCKER.

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
- ② SAME AS STEP #1 OF LOWERING ANCHOR
- ③ SAME AS STEP #2 OF LOWERING ANCHOR
- ④ PUSH WINDLASS "UP" BUTTON (LOCATED-NEXT TO "DOWN BUTTON" BEING CAREFUL AS THE ANCHOR APPROACHES THE HULL AND ANCHOR ROLLER) UNTIL THE ANCHOR RESTS IN THE STEMHEAD PROPERLY.

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



NOTE: SEE PAGE 64C FOR POWER FEED/WIRE RUN LOCATIONS

HUNTER

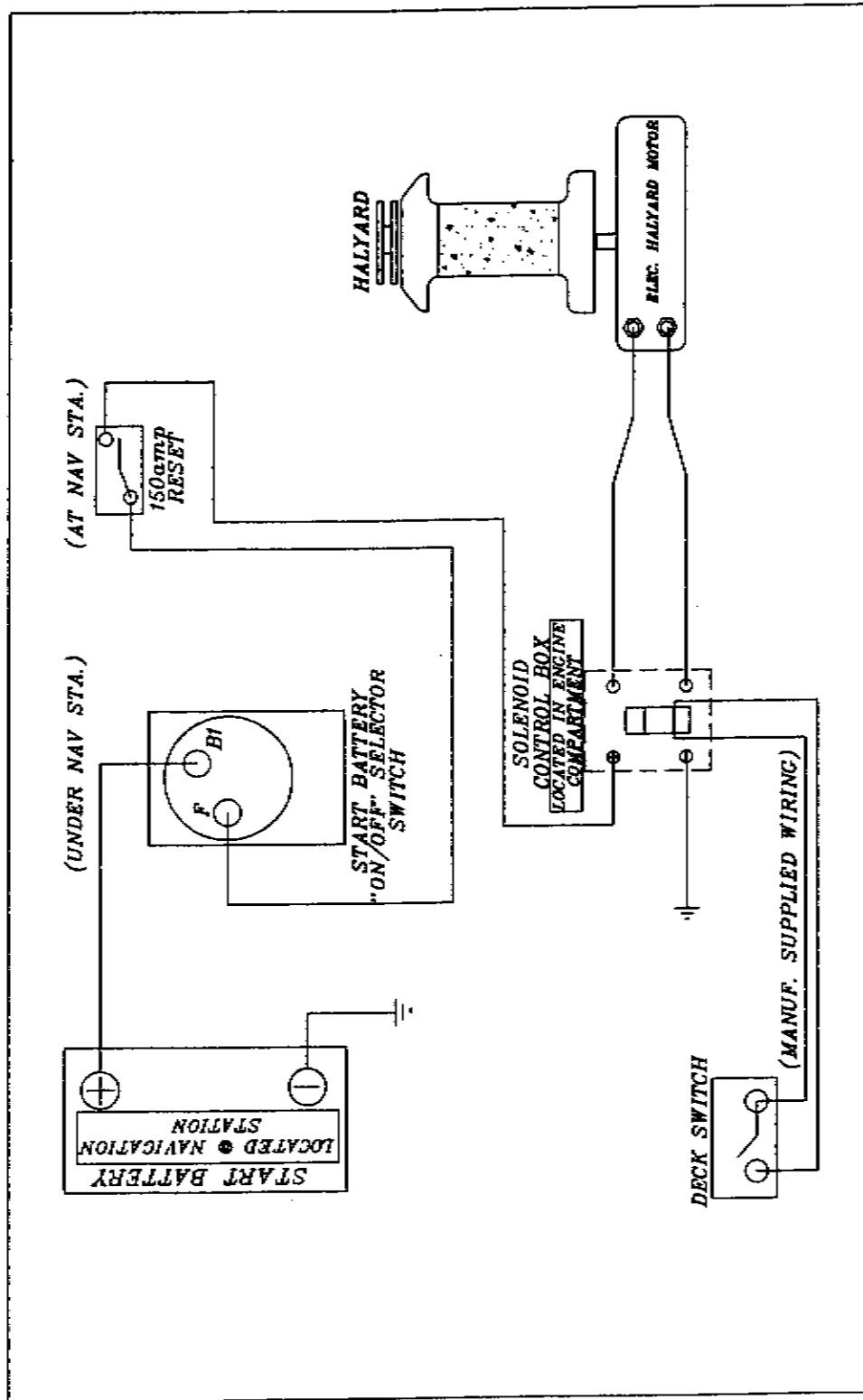
| | |
|-------------------------------|--------|
| H460 OPTIONAL WINDLASS WIRING | |
| 4608084D-2 | NONE |
| ENGINEERING DEPT. | 2/3/89 |

SECTION 64E...OPTIONAL ELEC. HALYARD SYSTEM

BASIC OPERATING INSTRUCTIONS:

- ① TURN THE START BATTERY SELECTOR SWITCH TO THE "ON" POSITION.
(FOUND @ NAVIGATION STATION)
- ② HALYARD SWITCH ON DECK SHOULD NOW OPERATE WINCH

SEE PAGE 63A-9 FOR FURTHER OPERATING DETAILS



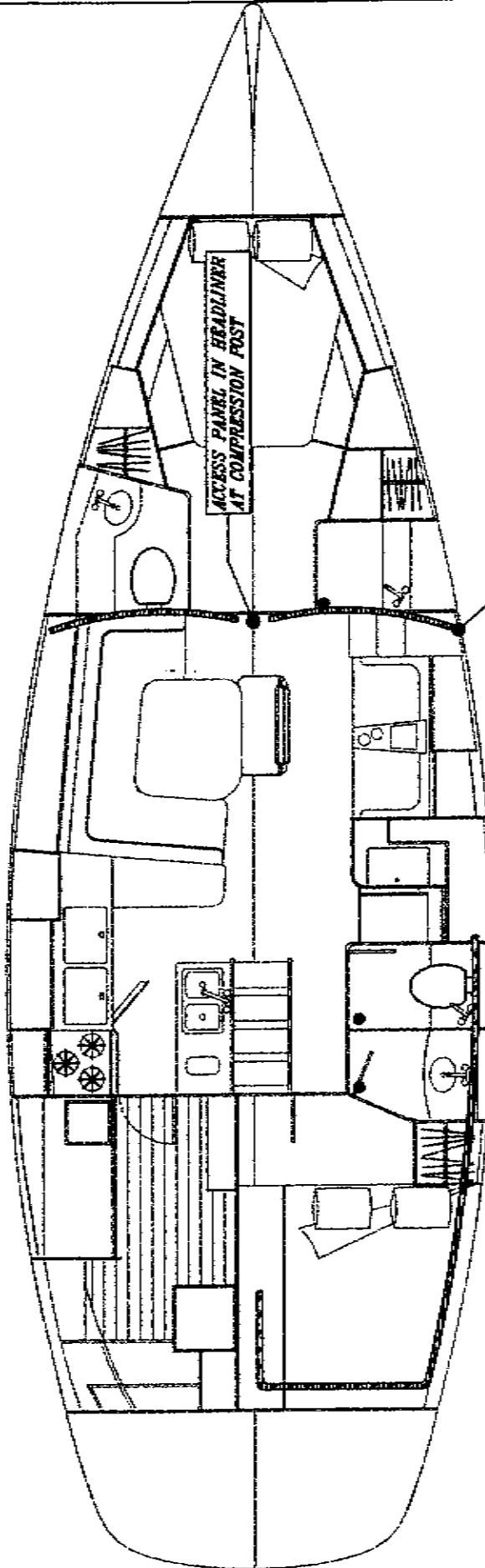
NOTE: SEE PAGE 64C FOR MORE DETAILS

H460 ELECTRIC HALYARD SCHEMATIC

| | | | |
|-------------------|---------|------|--------|
| FIG. NO. | H460E-2 | REV. | NONE |
| DATE | | BY | 2/3/99 |
| ENGINEERING DEPT. | | | |

HUNTER

— (2" / 50.8mm) BLACK FLEX TUBE HEADLINER WIRE CHASES



ACCESS PANEL IN HEADLINER AT COMPRESSION POST

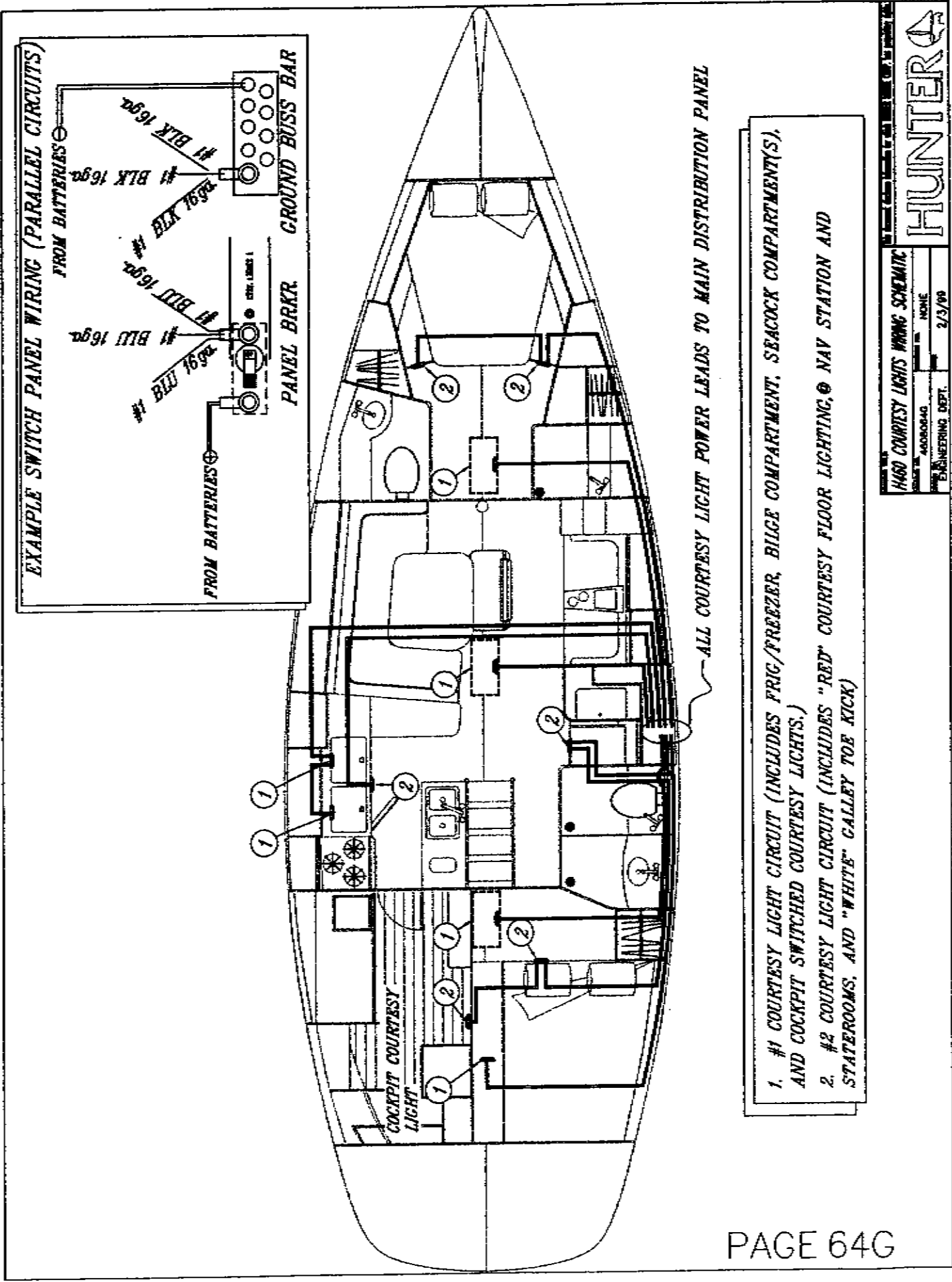
ACCESS PANEL IN HEADLINER (JUST FWD OF CHAINPLATE COVERS)

For General Customer Assistance or Sales, Please Call 1-800-368-5848

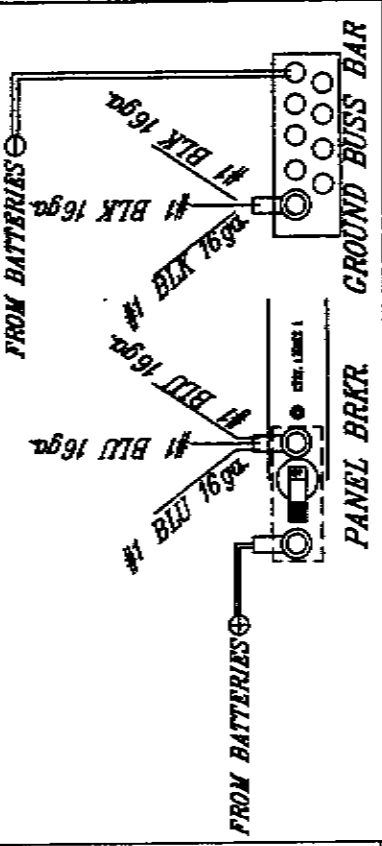
HUNTER

H460 HEADLINER WIRE CHASE LOCATIONS

| | | | |
|-------------------|---------|----|--------|
| DATE | 4/30/04 | BY | NONE |
| ENGINEERING DEPT. | | | 2/3/06 |



EXAMPLE SWITCH PANEL WIRING (PARALLEL CIRCUITS)

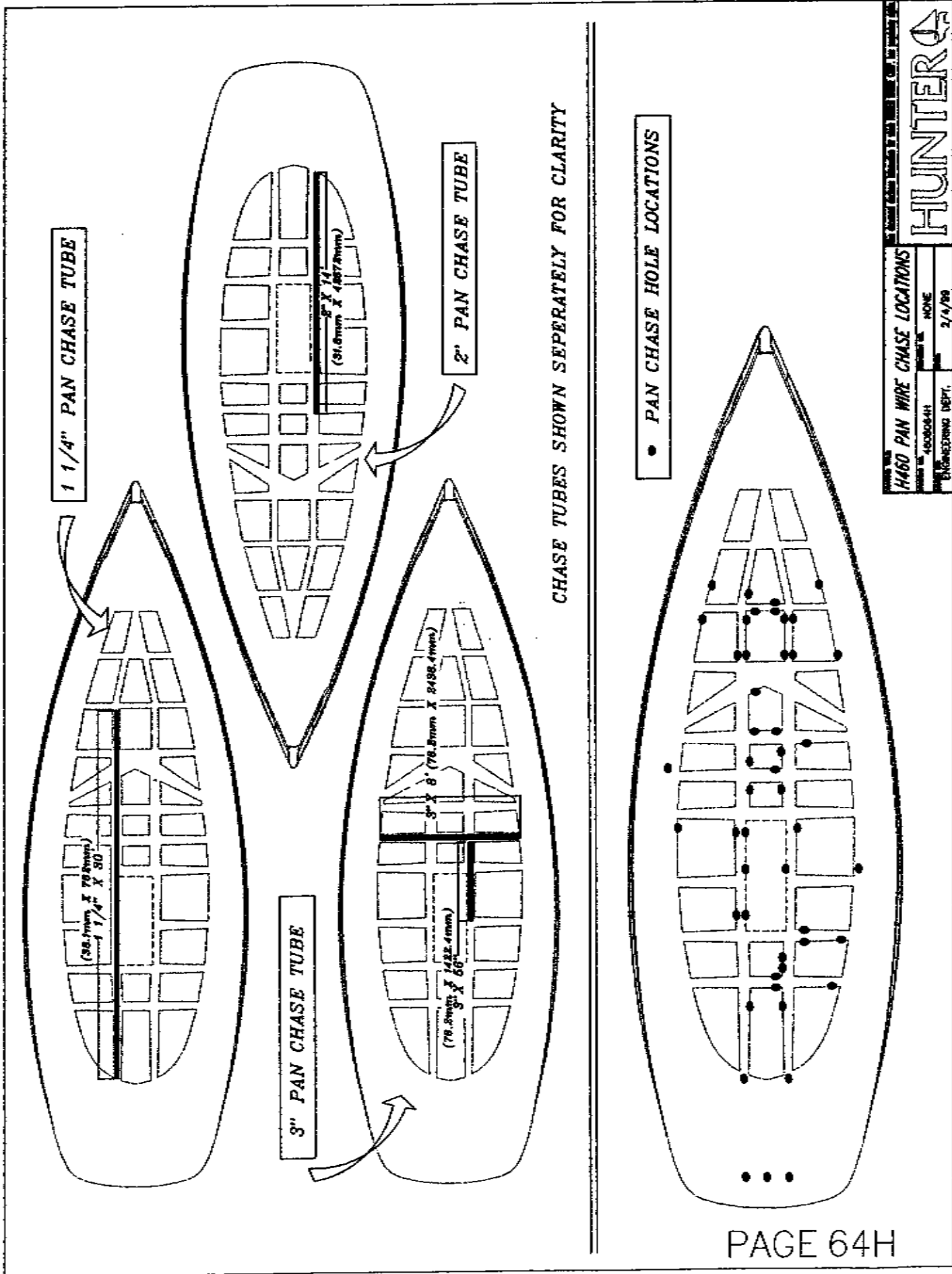


ALL COURTESY LIGHT POWER LEADS TO MAIN DISTRIBUTION PANEL

- 1. #1 COURTESY LIGHT CIRCUIT (INCLUDES FRIG/FREEZER, BILGE COMPARTMENT, SEACOCK COMPARTMENT(S), AND COCKPIT SWITCHED COURTESY LIGHTS.)
- 2. #2 COURTESY LIGHT CIRCUIT (INCLUDES "RED" COURTESY FLOOR LIGHTING, NAV STATION AND STATEROOMS, AND "WHITE" GALLEY TOE KICK)

HUNTER

| | |
|---------------------------------------|-------------------|
| #460 COURTESY LIGHTS WIRING SCHEMATIC | |
| DATE: 11/20/00 | BY: NONE |
| DRAWN BY: JACOB/AG | ENGINEERING DEPT. |
| 2/3/00 | |



1 1/4" PAN CHASE TUBE

2" PAN CHASE TUBE

3" PAN CHASE TUBE

• PAN CHASE HOLE LOCATIONS

CHASE TUBES SHOWN SEPERATELY FOR CLARITY

HUNTERCRAFT

H460 PAN WIRE CHASE LOCATIONS

DATE: 4/30/08-4H NONE

ENGINEERING DEPT. 2/4/09

THIS PAGE IS PROVIDED FOR ANY
ADDITIONAL DC ELECTRICAL INFORMATION.

1. ALL DC WIRING WITHIN 12" OF ANY COMPASS SHALL BE TWISTED PAIRS... THAT IS THE HOT LINE AND GROUND SHALL BE TWISTED TOGETHER.

4800041 NONE 2/3/99
ENGINEERING DEPT.

HUNTERC

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|---------------------------------------|----|--------------|
| | ..BE000001 | 50 | 5 | ELECTRICAL SYSTEM | EA | 1.0000 |
| | ...BE010001 | 310 | 5 | ELECTRICAL ASSEMBLY | EA | 1.0000 |
| |BE020001 | 10 | 5 | 110 VOLT ELECTRICAL SUB ASSEMBLY | EA | 1.0000 |
| |BE020015 | 40 | 5 | H460-A/C STANDARD KIT | EA | 1.0000 |
| 10 |256433 | 130 | 300 | ABS, BLK, A/C PLENUM, H420 | EA | 3.0000 |
| 10 |309532 | 10 | 350 | ABS, BLACK, .177X4'X8' HAIRCELL 1SIDE | SF | 9.0000 |
| 26 |256666 | 160 | 300 | GRILL KIT, H460, A/C, STD | KT | 1.0000 |
| 41 |258632 | 140 | 300 | DUCTING A/C, 4" | FT | 25.0000 |
| 41 |258650 | 150 | 300 | DUCTING A/C, 5" | FT | 20.0000 |
| 26 |258666 | 10 | 300 | HOSE, A/C, 5/8" SEAWATER | FT | 45.0000 |
| 28 |652500 | 20 | 300 | WIRE 10/3 MARINE POWER | FT | 30.0000 |
| 27 |652500 | 25 | 300 | WIRE 10/3 MARINE POWER | FT | 40.0000 |
| 28 |652500 | 30 | 300 | WIRE 10/3 MARINE POWER | FT | 25.0000 |
| 28 |652500 | 30 | 300 | WIRE 10/3 MARINE POWER | FT | 15.0000 |
| 28 |656300 | 40 | 300 | CONDUIT 1 1/4" BLACK 125-1140 | FT | 10.0000 |
| 28 |656400 | 50 | 300 | CONDUIT 3/8" 125-0330 | FT | 8.0000 |
| | ...BE040110 | 10 | 5 | H460-MICROWAVE 110V COMPONENTS | EA | 1.0000 |
| 56 |250838 | 10 | 300 | PLATE, RECEPTABLE, IVORY, PLASTIC H37 | EA | 1.0000 |
| 56 |251152 | 50 | 300 | DUPLEX RECEPTACLES #S320-1 IVORY | EA | 1.0000 |
| 56 |251584 | 20 | 300 | SWITCH BOX SWB RACO #410 3"X2" NON- | EA | 1.0000 |
| 57 |257714 | 30 | 300 | TERMINAL C2614-1CR 450/LB BLU | EA | 6.0000 |
| 61 |318500 | 50 | 300 | MICROWAVE, .6 CF GOLDSTAR MA690 | EA | 1.0000 |
| 58 |653100 | 40 | 300 | WIRE 14/3 MARINE POWER | FT | 28.0000 |
| | ..BJ00000A | 50 | 5 | AMERICAN LOOSE GEAR | EA | 1.0000 |
| | ...BJ030010 | 40 | 5 | GENERAL LOOSE GEAR COMPONENTS | EA | 1.0000 |
| 96 |302670 | 10 | 200 | HANDLE, WINCH, 10" ALUM | EA | 1.0000 |
| 96 |308680 | 20 | 200 | HANDLE, WINCH, 10" CHROME LOCK IN | EA | 1.0000 |
| 96 |312060 | 190 | 888 | TOOL BOX (ENGINE) | EA | 1.0000 |
| 96 |330100 | 30 | 570 | GELCOAT REPAIR KIT "BRUISE PACK" | KT | 1.0000 |
| 96 |330220 | 40 | 570 | CORIAN HOME CARE KIT | EA | 1.0000 |
| 96 |330930 | 50 | 570 | PLATE, DINNER, 10" WHITE, MARINE NON | EA | 6.0000 |
| 96 |331020 | 50 | 570 | BOWL, 8" SERVING, WHITE | EA | 6.0000 |
| 96 |331050 | 70 | 570 | MUG, 11 3/4 OZ. NON SKID WHITE | EA | 6.0000 |
| 96 |333340 | 90 | 210 | WASTE BASKET | EA | 1.0000 |
| 96 |333380 | 100 | 200 | WASTEBASKET, 54661RU, 28 1/8 QTS BE | EA | 1.0000 |
| 96 |335820 | 110 | 570 | CHAPMANS MANUAL 62ND EDITION | EA | 1.0000 |
| 96 |335940 | 120 | 570 | WINDEX #15 - 28' AND UP | EA | 1.0000 |
| 95 |337050 | 130 | 570 | OWNER'S MANUAL P450 | EA | 1.0000 |
| 95 |337460 | 140 | 570 | CRUISE PAC BOX 17" X 12" | EA | 1.0000 |
| 96 |350043 | 180 | 250 | CURTAIN SHOWER WHT FWD. (58"X64") | EA | 1.0000 |
| 96 |350061 | 160 | 250 | HOOKS, SHOWER CURTAIN H42 | EA | 10.0000 |
| 96 |351105 | 170 | 250 | EMERGENCY STOPPER #1860-1010-3318 | EA | 2.0000 |
| 95 |S0466 | 150 | 78 | BOX, LOOSE GEAR, 26X10X6 (RADIOS) | EA | 1.0000 |
| | ...BJ030020 | 50 | 5 | SAFETY GEAR COMPONENTS | EA | 1.0000 |
| 96 |330380 | 10 | 570 | FIRE EXTINGUISHER 10BC | EA | 3.0000 |
| 96 |331140 | 20 | 570 | LIFE JACKET #8716 ORANGE | EA | 6.0000 |
| 96 |332020 | 40 | 570 | HORN, AIR, 8.502, #82203-7 | EA | 1.0000 |

HILTI
 H460 ELECTRICAL SYSTEM COMPONENTS PARTS LIST
 NONE
 3/28/88
 ENGINEERING DEPT.
 460064

| Stage | Component | Useq | PC | Description | LM | Net Quantity |
|-------|--------------|------|-----|---------------------------------------|----|--------------|
| 27 |653100 | 90 | 300 | WIRE 14/3 MARINE POWER | FT | 15.0000 |
| | ...ED040045A | 20 | 5 | MAIN BILGE DISCHARGE COMPONENTS | EA | 1.0000 |
| 26 |353877 | 20 | 250 | BALL VALVE (1") BRASS #70-105-10 | EA | 1.0000 |
| 26 |355821 | 10 | 250 | ELBOW 90 DEG.STR/ELL BR. 1" | EA | 1.0000 |
| | ..BE00000A | 70 | 5 | AMERICAN ELECTRICAL | EA | 1.0000 |
| | ..BE020010 | 40 | 5 | H460-RECEPTACLE | EA | 1.0000 |
| 56 |250838 | 10 | 300 | PLATE,RECEPTABLE, IVORY, PLASTIC H37 | EA | 6.0000 |
| 56 |251000 | 100 | 300 | RECEPTACLE, WATERP. PLASTIC, 4976-WH | EA | 2.0000 |
| 56 |251162 | 20 | 300 | DUPLEX RECEPTACLES #5320-1 IVORY | EA | 8.0000 |
| 56 |251684 | 30 | 300 | SWITCH BOX SWB RACO #410 3"X2" NCN- | EA | 8.0000 |
| 56 |254636 | 40 | 300 | ELECTRICAL COVER SM. (VACUUM) BLACK | EA | 5.0000 |
| 57 |257570 | 50 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 15.0000 |
| 57 |257714 | 60 | 300 | TERMINAL C1614-1CR 450/LB BLU | EA | 40.0000 |
| 57 |257732 | 70 | 300 | TERMINAL C1210-1CR 250/LB YELLO | EA | 50.0000 |
| 57 |466790 | 80 | 600 | P/H PHIL #6 X 1/2" S/S T/A | EA | 45.0000 |
| 26 |653100 | 30 | 300 | WIRE 14/3 MARINE POWER | FT | 150.0000 |
| | ...BE020020 | 50 | 5 | H460-GFI RECEPTACLE | EA | 1.0000 |
| 56 |251126 | 10 | 300 | BOX - RECEPTACLE #LCCW (FOR GFI REC | EA | 2.0000 |
| 56 |251756 | 20 | 300 | RECEPTACLE - GFI #65991 | EA | 2.0000 |
| 57 |257714 | 30 | 300 | TERMINAL C1614-1CR 450/LB BLU | EA | 3.0000 |
| 56 |257732 | 40 | 300 | TERMINAL C1210-1CR 250/LB YELLO | EA | 10.0000 |
| 56 |466790 | 50 | 600 | P/H PHIL #6 X 1/2" S/S T/A | EA | 10.0000 |
| | ...BE020070 | 60 | 5 | H460-SHORE POWER | EA | 1.0000 |
| 34 |252566 | 10 | 300 | PANEL, SHOREPOWER RESET BREAKER, ALUM | EA | 1.0000 |
| 37 |257732 | 20 | 300 | TERMINAL C1210-1CR 250/LB YELLO | EA | 9.0000 |
| 34 |331700 | 30 | 300 | INLET #303SEL-B (SHIP/SHORE) | EA | 2.0000 |
| 61 |331740 | 40 | 888 | LABEL, WARNING, | EA | 1.0000 |
| 96 |331780 | 50 | 300 | ADAPTER #104A (SHIP/SHORE) | EA | 2.0000 |
| 96 |331820 | 60 | 300 | CORDSET MCLDED 50' #50PCM | EA | 2.0000 |
| 37 |460250 | 70 | 600 | CABLE TIES BLACK, 15" W/ EYE | EA | 15.0000 |
| 37 |465630 | 90 | 600 | O/H PHIL #10 X 1" S/S T/A | EA | 8.0000 |
| 37 |465670 | 80 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 15.0000 |
| 13 |652500 | 100 | 300 | WIRE 10/3 MARINE POWER | FT | 40.0000 |
| 13 |652500 | 110 | 300 | WIRE 10/3 MARINE POWER | FT | 40.0000 |
| | ...BE030100 | 70 | 5 | H460-VHF RADIO | EA | 1.0000 |
| 34 |250352 | 20 | 300 | BARREL, PL258, GOOD DESCRIPTION | EA | 2.0000 |
| 56 |250370 | 30 | 300 | CONNECTOR, MALE, PL259 39N330 | EA | 1.0000 |
| 56 |251270 | 40 | 888 | HARNES, VHF, RAY52 | EA | 1.0000 |
| 96 |252692 | 120 | 300 | RADIO, VHF, RAY52, E43009 | EA | 1.0000 |
| 34 |252710 | 50 | 300 | FLUSH MOUNT KIT, FOR RAY 52 | EA | 1.0000 |
| 37 |257570 | 60 | 300 | TERMINAL C1614-SC 400/LB BLUE | EA | 2.0000 |
| 37 |257714 | 70 | 300 | TERMINAL C1614-1CR 450/LB BLU | EA | 2.0000 |
| 96 |462899 | 110 | 600 | 6MM X 12 HEX HEAD CAP SCREW S/S | EA | 2.0000 |
| 37 |466170 | 80 | 600 | O/H PHIL 6 X 3/4" BLK OX. | EA | 6.0000 |
| 13 |652500 | 100 | 300 | WIRE, 13GA, C1176, RG213/U | FT | 60.0000 |
| 13 |653300 | 10 | 300 | WIRE, 16GA, RED/WHITE TRACER, TINN/CO | FT | 40.0000 |
| 13 |654500 | 90 | 300 | WIRE BLACK SC-12 GAUGE | FT | 40.0000 |

HAZELTINE
 HAZELTINE SYSTEM COMPONENTS PARTS LIST CONT.
 NONE
 3/26/99
 ENGINEERING DEPT.
 4608064K

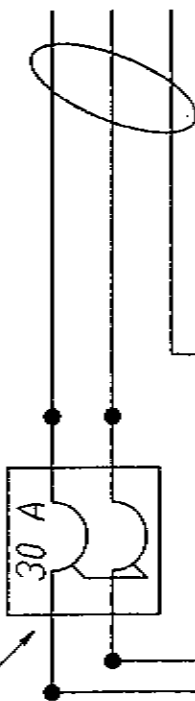
| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|-------------|------|-----|-------------------------------------|--------------|--------------|
| | ...BE040020 | 30 | 5 | H460-AC/DC 110 SWITCH PANEL COMPCN | EA | 1.0000 |
| 56 | ...254708 | 90 | 300 | COVER - SPEAKER BACKSIDE 7"X7"X2.5" | EA | 1.0000 |
| 56 | ...256742 | 10 | 300 | BUSS BAR #M449 - 10 GANG | EA | 4.0000 |
| 57 | ...257642 | 20 | 300 | TERMINAL C 8-1/4R 200/LB | RE EA | 10.0000 |
| 57 | ...257696 | 30 | 300 | TERMINAL C 8-10R | RE EA | 10.0000 |
| 60 | ...257714 | 40 | 300 | TERMINAL C1614-10R 450/LB | BLU EA | 60.0000 |
| 57 | ...257732 | 50 | 300 | TERMINAL C1210-10R 250/LB | YELLOW EA | 70.0000 |
| 57 | ...257750 | 60 | 300 | TERMINAL PC-128-FF 320/LB | YELLOW SL EA | 5.0000 |
| 56 | ...258043 | 70 | 300 | PANEL,AC/DC,110VOLT,H380/410/450 | EA | 1.0000 |
| | ...BE040030 | 80 | 5 | H460-REFRIGERATION COMPONENTS | EA | 1.0000 |
| 56 | ...250838 | 310 | 300 | PLATE,RECEPTABLE,IVORY,PLASTIC | H37 EA | 1.0000 |
| 43 | ...250964 | 30 | 300 | SWITCH,PUSH,MOTOR BOX,8423K1 | EA | 3.0000 |
| 56 | ...251162 | 340 | 300 | DUPLEX RECEPTACLES #5320-1 | IVORY EA | 1.0000 |
| 56 | ...251432 | 360 | 300 | ROMEX CONNECTOR 3/8" #20 STEEL | EA | 2.0000 |
| 56 | ...251684 | 350 | 300 | SWITCH BOX SWB RACO #410 3"X2" NON- | EA | 1.0000 |
| 43 | ...255410 | 20 | 300 | LIGHT,UTILITY,WHITE, #140 | H376 EA | 2.0000 |
| 42 | ...257570 | 120 | 300 | TERMINAL C1614-SC 400/LB | BLUE EA | 3.0000 |
| 57 | ...257786 | 130 | 300 | TERMINAL PC-1614-FF 390/LB | BLUE SL EA | 6.0000 |
| 26 | ...258542 | 260 | 300 | REFRIGERATION COMPRESSOR 110 VAC | EA | 1.0000 |
| 26 | ...258578 | 230 | 570 | REFRIGERATION PUMP 110 VAC | EA | 1.0000 |
| 26 | ...286400 | 80 | 550 | LABEL,THRUHULL,"REF.PICKUP" | EA | 1.0000 |
| 26 | ...352316 | 220 | 210 | THRU-HULL,CHR,1/2" 65CN7-63 | EA | 1.0000 |
| 26 | ...352563 | 290 | 210 | STRAINER,INTAKE, #65-005-PLB | EA | 1.0000 |
| 26 | ...352797 | 270 | 150 | STRAINER, 3/4" LINE 18001(AC/GEN CP | EA | 1.0000 |
| 26 | ...353313 | 160 | 250 | BALL VALVE 1/2" #70-103-10 | EA | 1.0000 |
| 26 | ...353331 | 300 | 250 | BALL VALVE 3/4" #70-104-10 | EA | 1.0000 |
| 26 | ...354057 | 310 | 250 | BARB, HOSE, BRASS, 3/4" | EA | 1.0000 |
| 26 | ...354777 | 190 | 250 | HOSE BARB - 1/2" X 1/2" MPT,BRASS | EA | 1.0000 |
| 26 | ...355731 | 170 | 150 | ELBOW 90 DEG.STR/ELL BR. 1/2" | EA | 1.0000 |
| 26 | ...359215 | 260 | 250 | HOSE SHIELDFLEX 3/4" TYPE 2091 | FT | 1.0000 |
| 61 | ...386522 | 320 | 550 | LABEL,REF OPERATING INST. | EA | 2.0000 |
| 27 | ...465670 | 10 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 6.0000 |
| 25 | ...652500 | 140 | 300 | WIRE 10/3 MARINE POWER | FT | 25.0000 |
| 25 | ...654600 | 110 | 300 | WIRE BLACK SC-16 GAUGE TINNED/COPPE | FT | 20.0000 |
| 25 | ...655100 | 90 | 300 | WIRE BLUE W/ WHITE STRIPE 16GA. | FT | 25.0000 |
| 25 | ...655300 | 60 | 300 | WIRE BROWN SC-16 GAUGE | FT | 15.0000 |
| 25 | ...659800 | 100 | 300 | WIRE YELLOW SC-16 GAUGE | FT | 20.0000 |
| 26 | ...P4630 | 240 | 999 | REP. (ENG STAGE KIT) H460 | UT | 1.0000 |
| 43 | ...P4633 | 250 | 999 | REFRIGERATION, (MILL STAGE)KIT H460 | KT | 1.0000 |
| | ...BE040090 | 100 | 5 | H460-INVERTER OPTION 110V COMPONENT | EA | 1.0000 |
| 56 | ...250280 | 170 | 300 | FUSES T 1/2 AMP AGC | EA | 2.0000 |
| 56 | ...250460 | 180 | 300 | FUSE HOLDER BUSSMAN HRP-MH | EA | 2.0000 |
| 56 | ...250730 | 190 | 300 | FUSE, 300A INLINE 94-4152-00 | H43 EA | 2.0000 |
| 56 | ...253898 | 160 | 300 | SAFETY MAIN SWITCH - ON/OFF/BOTH | EA | 1.0000 |
| 26 | ...254456 | 10 | 300 | INVERTER,FREEDOM 20 W/82-0100-03 | 1 EA | 1.0000 |
| 26 | ...254541 | 200 | 300 | REMOTE,FREE25/12,82-0100-03 | EA | 1.0000 |
| 56 | ...254996 | 140 | 300 | ISOLATOR,MULTI-BATTERY, #2430 120A | EA | 1.0000 |
| 56 | ...257279 | 150 | 175 | PANEL,INVERTOR SWITCH TO PAINT | EA | 1.0000 |
| 27 | ...257552 | 60 | 600 | TERMINAL C1210-SC 180/LB | YELLOW EA | 12.0000 |
| 27 | ...460190 | 70 | 600 | CABLE TIES 15" W/O EYE BLACK | EA | 10.0000 |

HARD ELECTRICAL SYSTEM COMPONENTS PARTS LIST CONT.
 480806AL
 3/26/98
 ENGINEERING DEPT.

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|-------------|------|-----|--------------------------------------|----|--------------|
| 27 |465190 | 100 | 600 | NUT LOCK 1/4-20 S/S L/N | EA | 4.0000 |
| 27 |466670 | 80 | 600 | P/H PHIL #10 X 3/4" S/S T/A | EA | 4.0000 |
| 27 |467030 | 90 | 600 | P/H PHIL 1/4-20 X 1 1/2"S/S MS | EA | 4.0000 |
| 27 |468710 | 120 | 600 | T/H PHIL #8 X 3/4" BLACK OXIDE S/S | EA | 4.0000 |
| 27 |469370 | 110 | 600 | WASHER FLAT 1/4" S/S F/W | EA | 4.0000 |
| 28 |652500 | 20 | 300 | WIRE 10/3 MARINE POWER | FT | 15.0000 |
| 96 |333220 | 60 | 200 | BELL, FCG, 8" H40.5,H42,243 | EA | 1.0000 |
| 96 |333260 | 50 | 500 | FLARE KIT, 3-R2 HAND HELD (3PER ? | EA | 1.0000 |
| 96 |602839 | 30 | 570 | BOUYANT CUSHION #9351-01 | EA | 1.0000 |
| | ...BJ030030 | 60 | 5 | AMERICAN LABELS AND DOCUMENTATION | EA | 1.0000 |
| 61 |261210 | 130 | 560 | DECAL *NG STEP*(1,000 PER RL) | EA | 1.0000 |
| 61 |281420 | 10 | 560 | STICKER, "NMMA" CERTIFICATION YELLO | EA | 1.0000 |
| 61 |281450 | 20 | 560 | LABEL, "SWIM LADDER WARNING" ADHESI | EA | 1.0000 |
| 61 |281660 | 30 | 560 | LABEL, "5 YEAR WARRANTY"BLUE | EA | 1.0000 |
| 61 |282080 | 40 | 560 | LABEL DISCHARGE OF OIL PROHIBITED | EA | 1.0000 |
| 61 |282310 | 50 | 560 | LABEL, "HEAD USE" INSTRUCTION | EA | 2.0000 |
| 61 |282290 | 60 | 560 | LABEL, "HEAD FLUSH" INSTRUCTION | EA | 2.0000 |
| 61 |282500 | 70 | 560 | LABEL (TCE RAIL) "SLING" | EA | 3.0000 |
| 61 |282740 | 80 | 560 | LABEL, "NOTICE TO INSTALLER"-AMERICA | EA | 2.0000 |
| 61 |282950 | 90 | 560 | LABEL, "LPG CAUTION" | EA | 1.0000 |
| 61 |283730 | 100 | 560 | LOGO"CRUISE PAC" LARGE | EA | 2.0000 |
| 61 |285140 | 110 | 500 | LABEL, "ELECTRIC SHOCK" (TRIANGLE) | EA | 2.0000 |
| 61 |286520 | 120 | 560 | LABEL, "DO NOT USE VARS ON ELEC WIN | EA | 1.0000 |
| | .B3020005T | 60 | 5 | 62 HP YANMAR ENGINE OPTION | EA | 1.0000 |
| 25 | ..100560 | 10 | 100 | ANTIFREEZE | GL | 1.2500 |
| 10 | ..102210 | 30 | 150 | FUEL DIESEL | GL | 25.0000 |
| 25 | ..312431 | 20 | 150 | ENGINE, 63HP, D.ANGLE,4JH2EE,H420 | EA | 1.0000 |
| 28 | ..656500 | 40 | 300 | CONDUIT 3/4" 125-0340 | FT | 25.0000 |
| | .B30200622 | 70 | 5 | 62HP 2 BLADE PROP OPTION | EA | 1.0000 |
| 96 | ..334020 | 30 | 150 | PROP,16X16X1 1/4" 3BLADE,YANMAR 62H | EA | 1.0000 |
| | .BDC3000H | 30 | 5 | STANDARD HEAD OPTION | EA | 1.0000 |
| | ..BD030030 | 10 | 5 | H460-FWD STB HEAD PLUMBING | EA | 1.0000 |
| 26 | ..286430 | 10 | 560 | LABEL,THROUGHULL,"HEAD PICKUP" | EA | 1.0000 |
| 26 | ..314430 | 160 | 200 | CHAFE GUARD,PLASTIC,2" 450 | EA | 1.5000 |
| 26 | ..350205 | 180 | 250 | TOLIET, 29090-0001, H280-H430 (LEFT | EA | 1.0000 |
| 26 | ..352293 | 30 | 250 | VENTED LOOP,W/VALVE,3/4"PVC | EA | 1.0000 |
| 26 | ..352627 | 40 | 250 | BRASS THRU HULL FITTING 3/4" #65-BN | EA | 1.0000 |
| 26 | ..353355 | 50 | 250 | HOSE CLAMP #13 | EA | 7.0000 |
| 26 | ..353427 | 60 | 250 | HOSE CLAMP #24 | EA | 2.0000 |

HUNTER
 H460 ELECTRICAL SYSTEM COMPONENTS PARTS LIST CONT.
 NONE
 4608064M
 3/28/99
 ENGINEERING DEPT.

30 AMP SHORE POWER BREAKER
(LOCATED IN STBD AFT SWIMSEAT LOCKER)



TO AC PANEL
10/3 BOAT CABLE

LINE 2

NOTES: RESET BREAKERS ARE ON THE STBD AFT STRM BLKHD
SEE PAGE 63C FOR LOCATION OF SHORE POWER INLETS.
SEE PAGE 63C FOR WIRE RUN LOCATION
SEE PAGE 64A-1 FOR 'BATTERY SWITCHES' WIRING

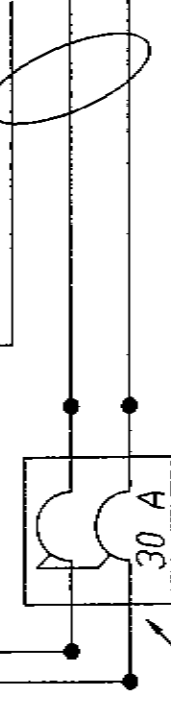
SHORE POWER INLET 1

SHORE POWER INLET 2

10/3 BOAT CABLE
TO AC PANEL

LINE 1

30 AMP SHORE POWER BREAKER
(LOCATED IN STBD AFT SWIMSEAT LOCKER)



H460 ELECTRICAL WIRING/CABLE DATA

12V.D.C. SYSTEM

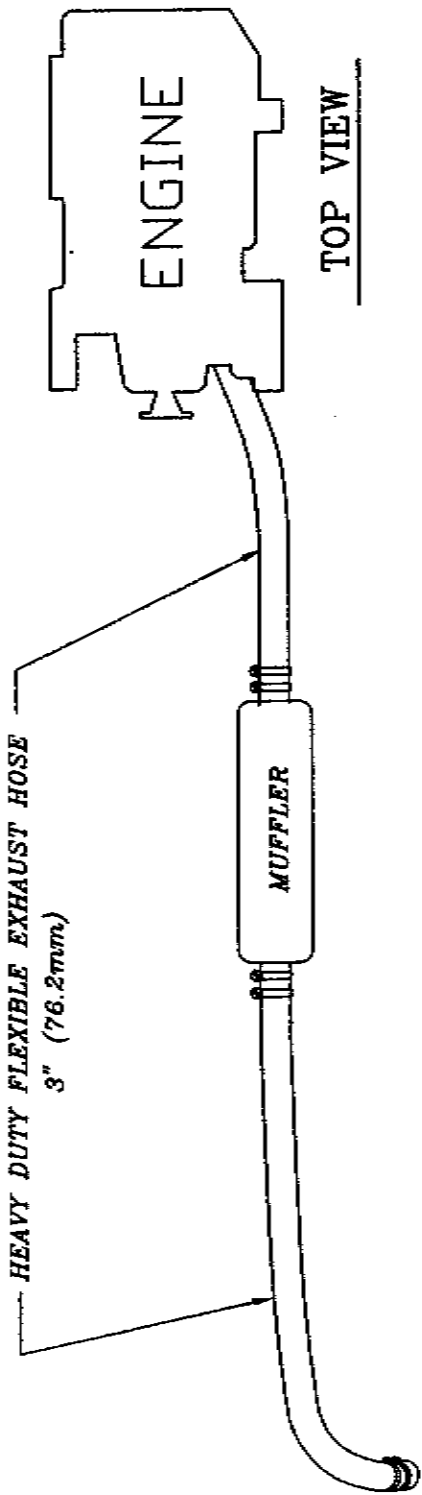
| CIRCUIT/BREAKER | AMPERAGE | WIRE SIZE | WIRE COLOR |
|-------------------------------|-------------------|-----------------|-----------------------------|
| D.C. MAIN | 50amp | 6gauge | ORANGE/RED |
| PANEL LIGHTS | 5amp | INTERN. WIRED | RED |
| CABIN LIGHTS 1 | 20amp | 16gauge | BLUE |
| CABIN LIGHTS 2 | 20amp | 16gauge | BLUE |
| COURTESY 1 | 10amp | 16gauge | BLUE/WHITE |
| COURTESY 2 | 10amp | 16gauge | BLUE/WHITE |
| TANK INDICATOR | 5amp | 16/2 BOAT CABLE | BLACK (NEG.) & WHITE (Pos.) |
| WATER PRESSURE | 10amp | 12gauge | BROWN |
| FWD.SHOWER SUMP | 10amp | 12gauge | BROWN/YELLOW |
| AFTSHOWER SUMP | 10amp | 12gauge | BROWN/BLACK |
| MACERATOR 1 | 20amp | 10gauge | BROWN/WHITE |
| MACERATOR 2 | 20amp | 10gauge | BROWN/WHITE |
| STEREO | 10amp | 16gauge | RED & YELLOW |
| STEREO W/AMPLIFIER | 20amp | 12gauge | RED |
| REFRIGERATION | 15amp | 8gauge | RED |
| L.P. GAS | 5amp | 16/2 BOAT CABLE | BLACK (NEG.) & WHITE (Pos.) |
| WINDLASS (SWITCH) | 5amp | 16gauge | RED/WHITE & RED/BLACK |
| INSTRUMENTS | 5amp | VENDOR SUPPLIED | RED & YELLOW (SCREEN) |
| G.P.S. | 5amp | 16gauge | RED/BLACK |
| V.H.F. | 10amp | 16gauge | RED & WHITE |
| AUTO-PILOT | VARIES PER MODEL | 8gauge | RED |
| ANCHOR LIGHT | 5amp | 16gauge | GRAY/RED |
| STEAMING LIGHT | 5amp | 16gauge | GRAY/GREEN |
| DECK LIGHT | 15amp | 16gauge | GRAY |
| RUNNING LIGHTS | 10amp (LGR. MOD.) | 16gauge | GRAY/WHITE |
| RUNNING LIGHTS | 5amp (SM. MOD.) | 16gauge | GRAY/WHITE |
| COMPASS (TIES TO RUN. LIGHTS) | | 16gauge | GRAY/WHITE |
| BATTERY CABLES | | 2/0 | RED |
| ENGINE STARTER CABLE | | 2/0 | RED |
| HALYARD WINCH | | 2gauge | RED |
| WINDLASS (MOTOR) CABLE | | 2gauge | RED |

110V.A.C. SYSTEM

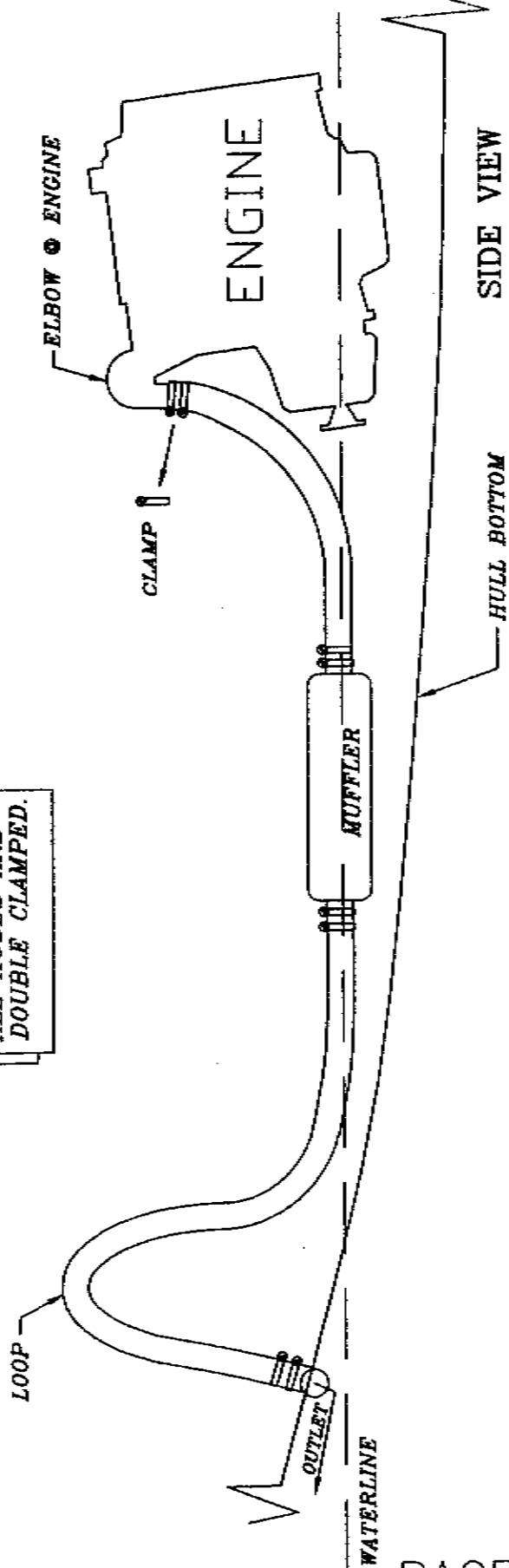
| | | | |
|-------------------------|----------|-----------------|----------------------------|
| SHORE POWER A.C. MAIN/S | 30 amp | 10/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| OUTLETS | 15amp | 14/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| MICROWAVE OVEN | 15amp | 14/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| WATER HEATER | 20amp | 14/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| BATTERY CHARGER | 15amp | 14/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| INVERTER | INTERNAL | 10/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| AIR CONDITIONING | 25amp | 10/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |

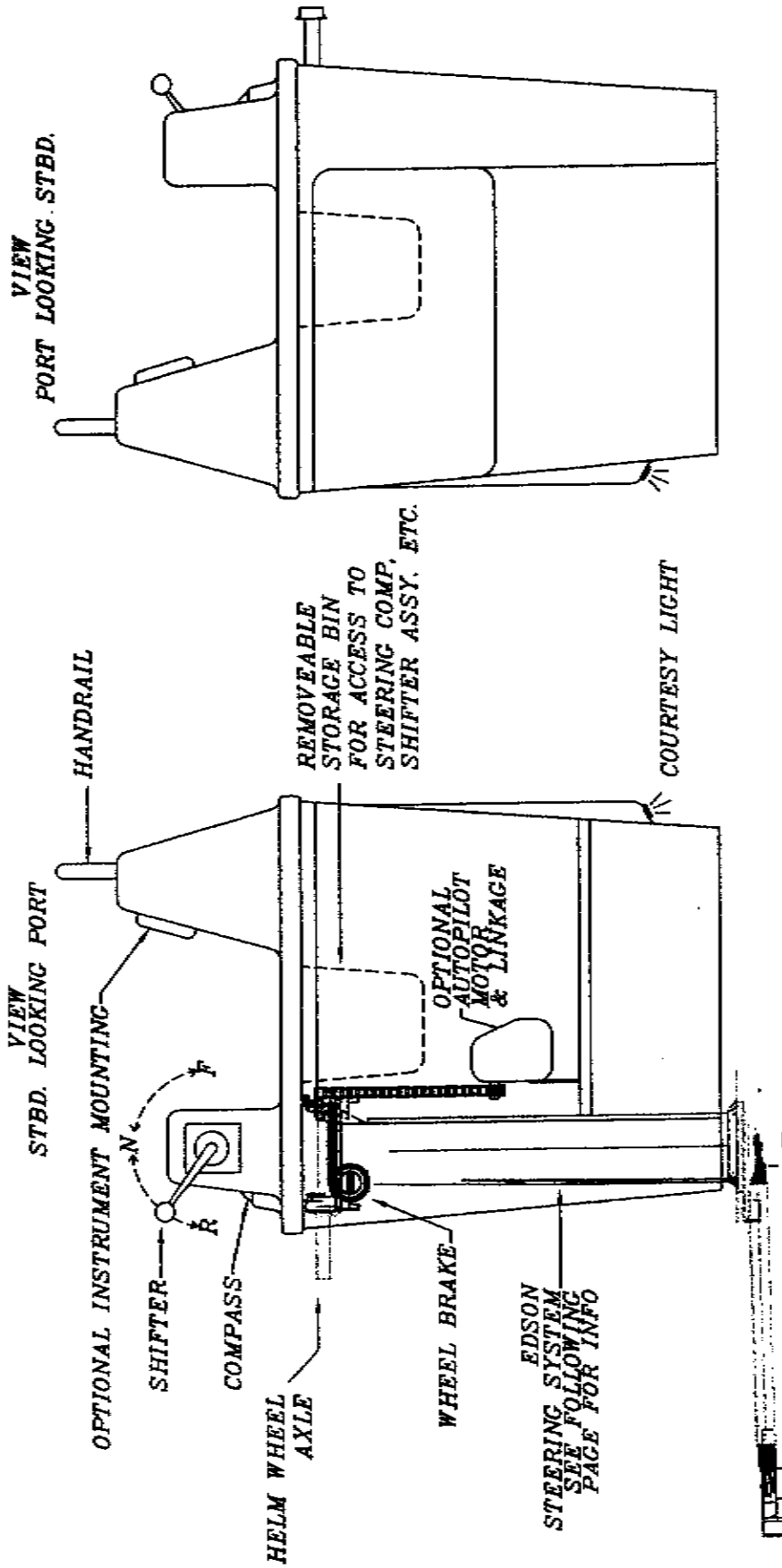
220V.A.C. SYSTEM (ON SELECT OVERSEAS MODELS ONLY)

| | | | |
|-------------------------|--------|-----------------|----------------------------|
| SHORE POWER A.C. MAIN/S | 15 amp | 10/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| OUTLETS | 10amp | 14/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| MICROWAVE OVEN | 10amp | 14/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| WATER HEATER | 10amp | 14/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| BATTERY CHARGER | 10amp | 14/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| INVERTER | N/A | 10/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |
| AIR CONDITIONING | 15amp | 10/3 BOAT CABLE | BLACK (HOT) & WHITE (NEU.) |



ALL HOSES ARE
DOUBLE CLAMPED.



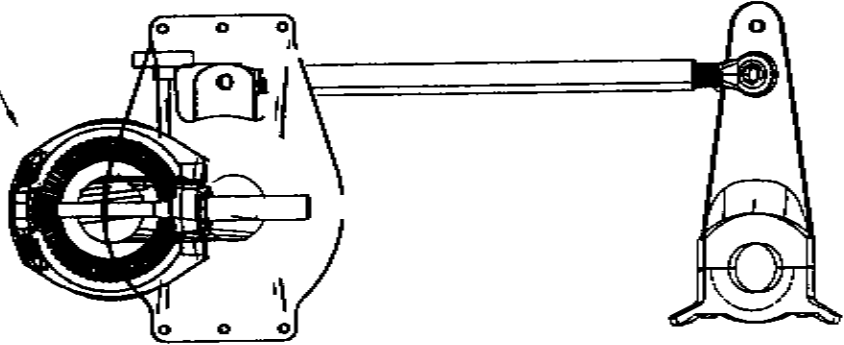


IMPORTANT:

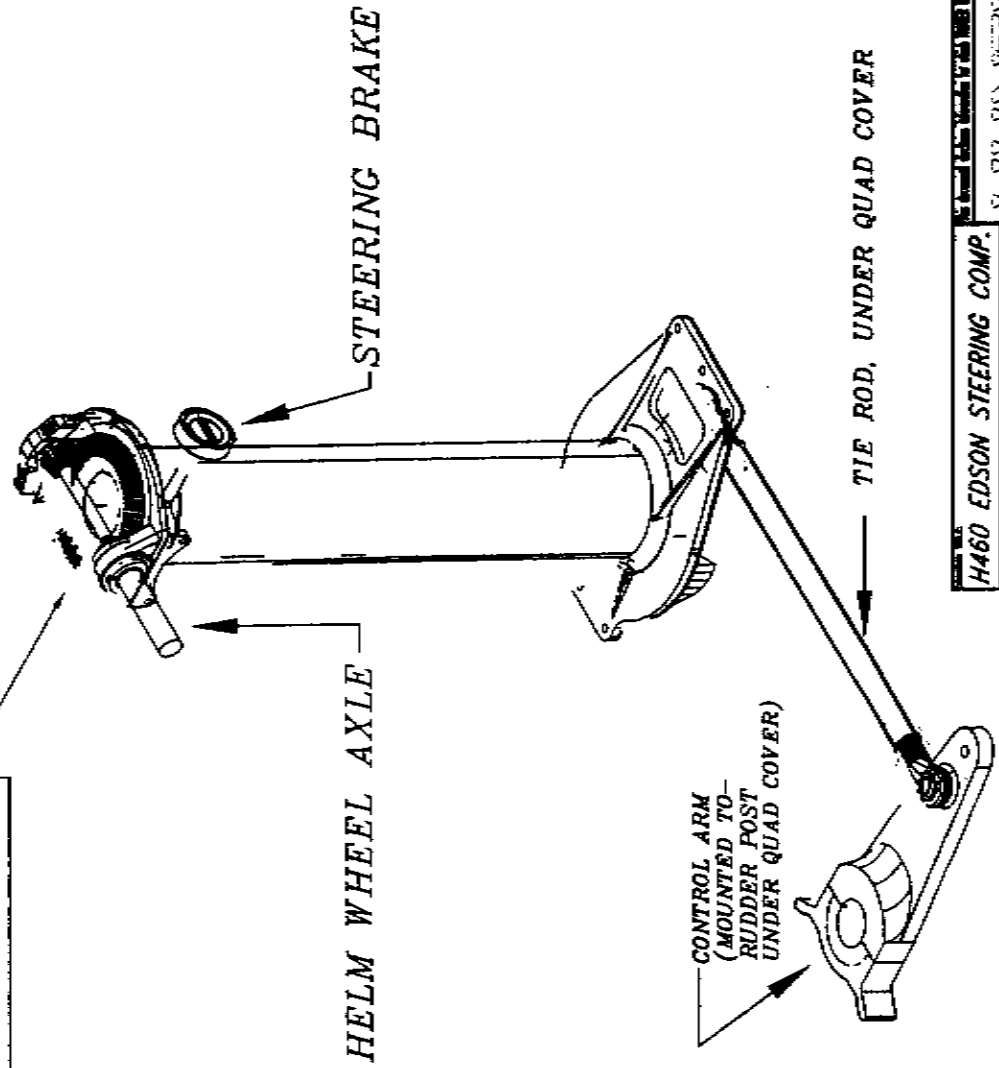
SEE EDSON STEERING MAINTENANCE UNDER "MAINTENANCE"
FOR A COMPLETE DESCRIPTION OF STEERING COMPONENTS
AND VITAL ROUTINE MAINTENANCE PROCEDURES.

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

PLAN VIEW



ISO VIEW



| | |
|---------------------------|------|
| HUNTERA | |
| H460 EDSON STEERING COMP. | |
| 480087B | NONE |
| ENGINEERING DEPT. | |
| 2/3/99 | |

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.

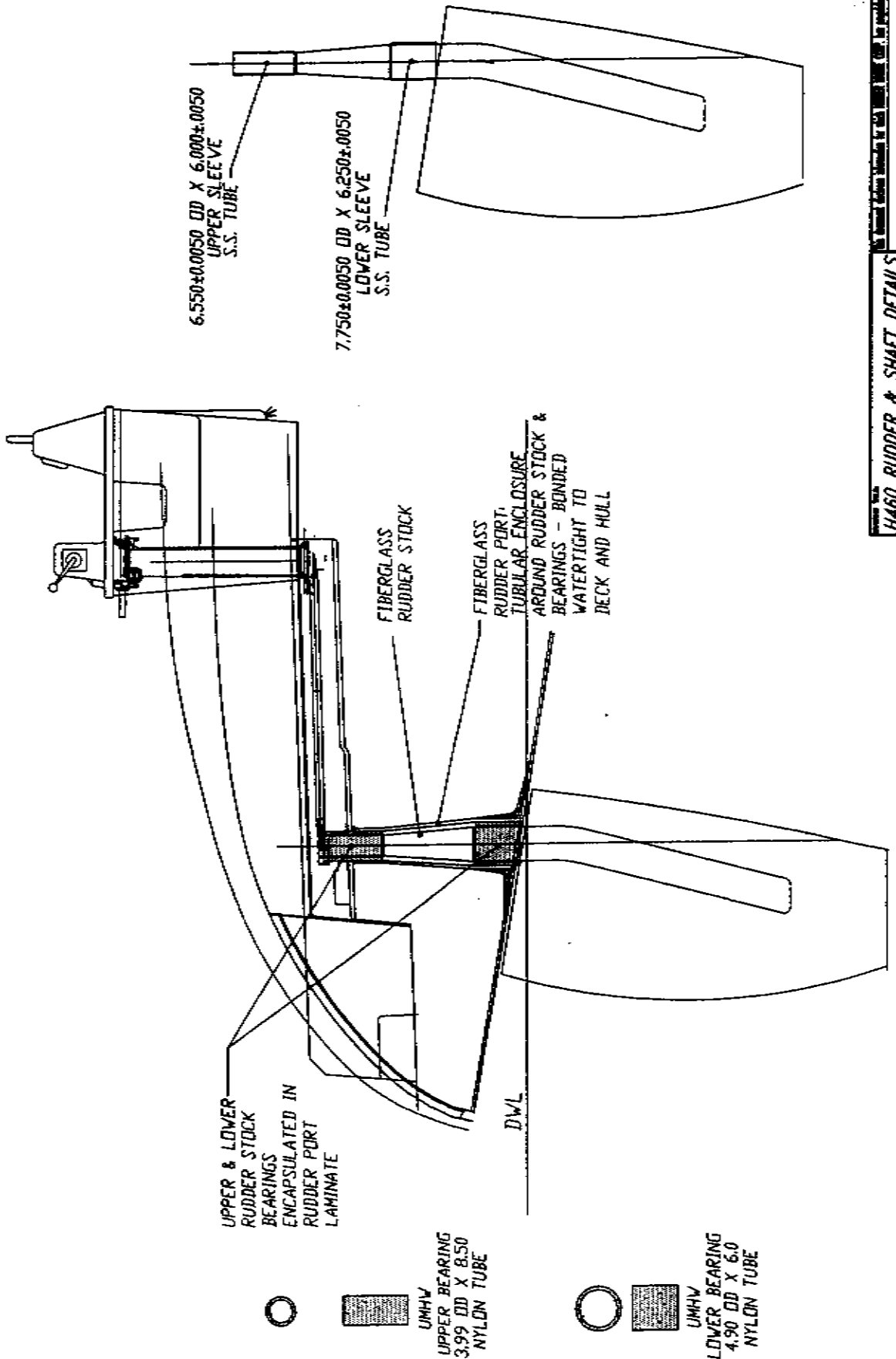
SPECIAL INFORMATION FOR EDSON INTERNAL CD-i STEERING SYSTEMS INSTALLED ON HUNTER YACHTS:

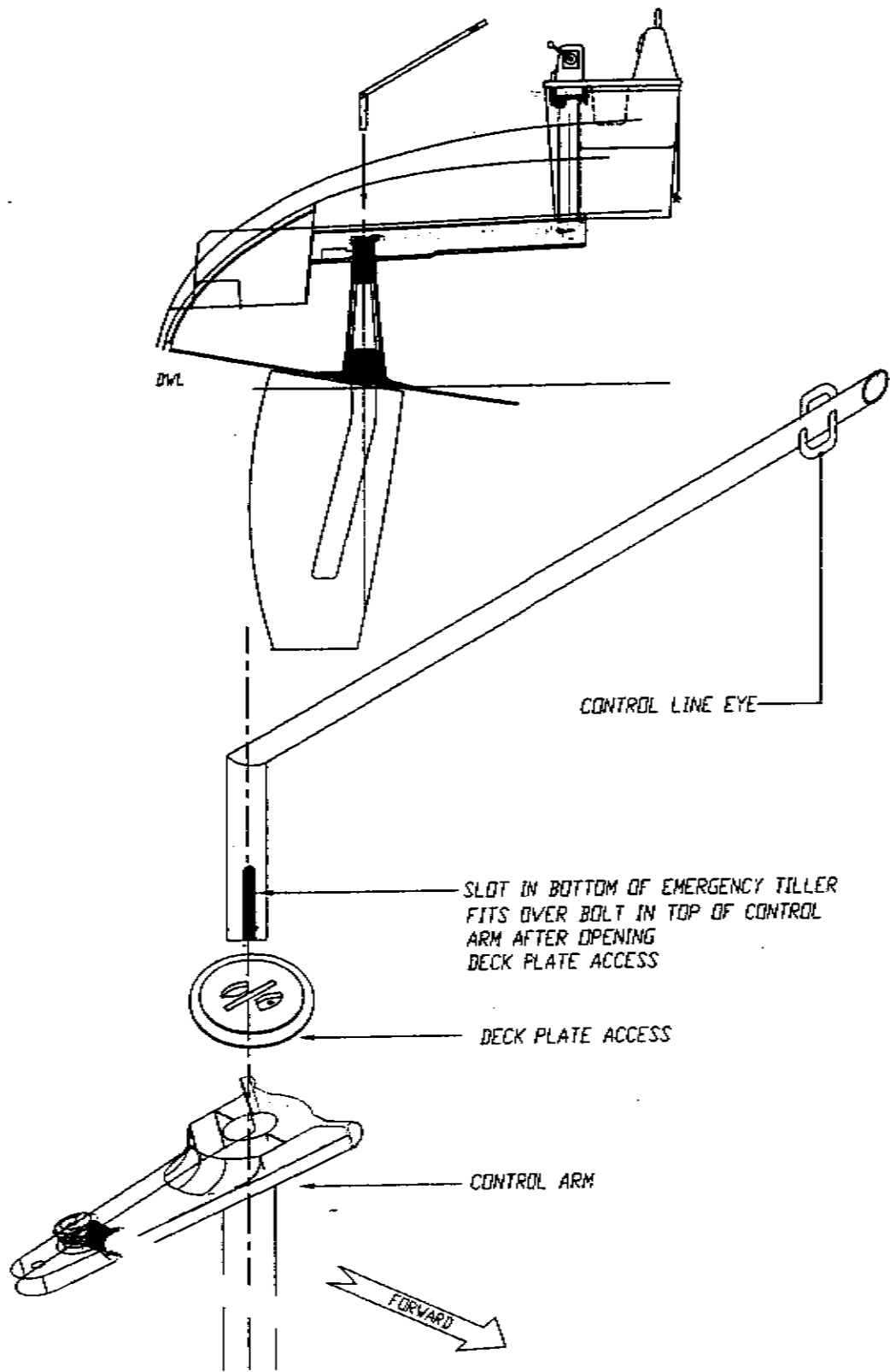
BOTH THE DOWNTUBE AND STEERING SHAFT BEARINGS REQUIRE LUBRICATION WITH TEFLON GREASE. THE UPPER BEARING GREASE FITTING IS LOCATED JUST UNDER THE TOP BOWL CASTING ON THE FORWARD SIDE OF THE OUTER TUBE. THE LOWER BEARING GREASE FITTING IS LOCATED JUST ABOVE DECK LEVEL ON THE FORWARD SIDE OF THE OUTER TUBE. 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

HUNTER
1460 EDSON STEERING MAINTENANCE
PART NO. 1460057C
DATE 2/3/99
ENGINEERING DEPT.





DWL

CONTROL LINE EYE

SLIT IN BOTTOM OF EMERGENCY TILLER
 FITS OVER BOLT IN TOP OF CONTROL
 ARM AFTER OPENING
 DECK PLATE ACCESS

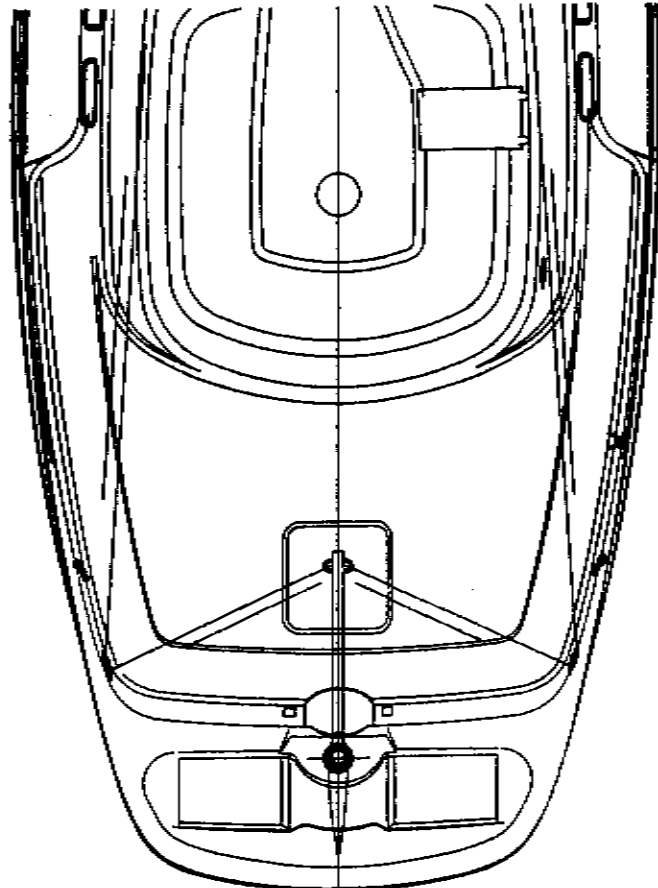
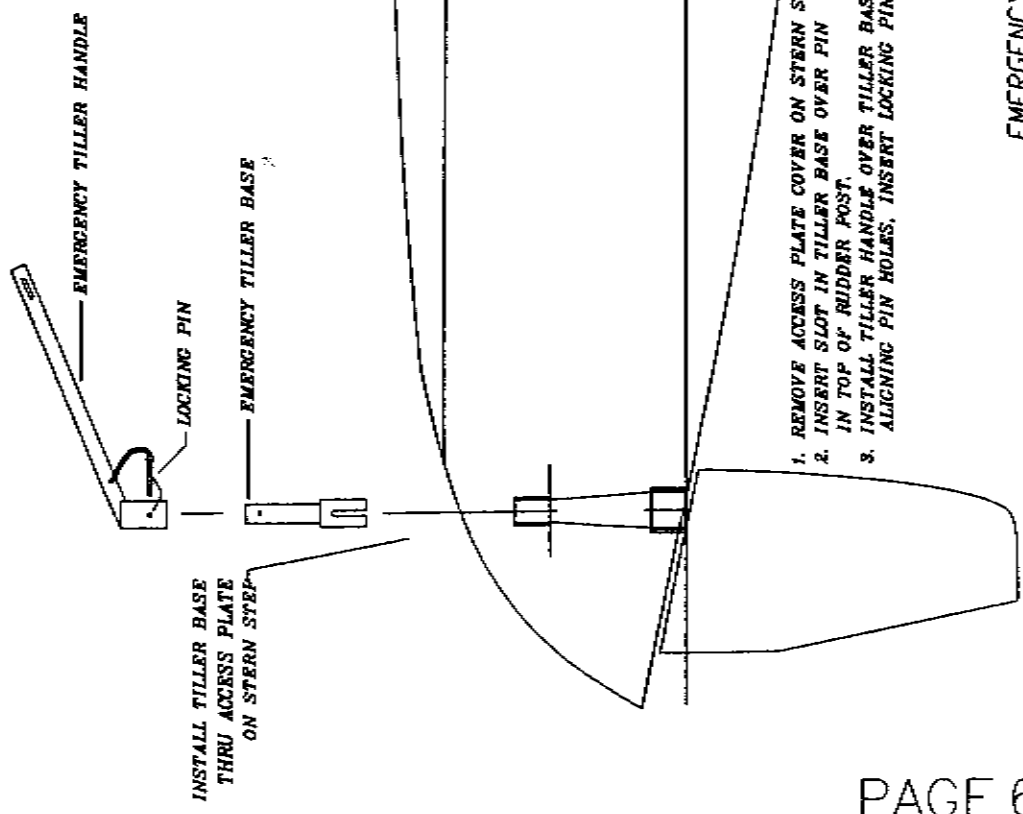
DECK PLATE ACCESS

CONTROL ARM

FORWARD

HUNTER
 H460 EMERGENCY TILLER
 4606088A NONE 2/4/98
 ENGINEERING DEPT.

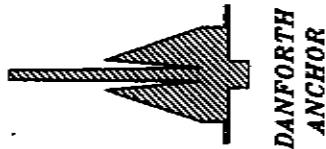
**NOTE: IF SECURING TILLER BECOMES NECESSARY -
OR IF YOU DESIRE TO STEER FROM COCKPIT -
SECURE LINE TO EYE ON TILLER HANDLE
LEAD AROUND MOORING CLEATS AS SHOWN
THEN ON TO WINCHES.**



EMERGENCY STEERING

| Stage | Component | Useq | PC | Description | UM | Net Quantity |
|-------|---------------|------|-----|-------------------------------------|----|--------------|
| | ..BH000001 | 62 | 5 | H 460 STEERING SYSTEM | EA | 1.0000 |
| | ...BH010001 | 10 | 5 | STEERING ASSEMBLY | EA | 1.0000 |
| |BH030001 | 10 | 5 | WHEEL STEERING SUB ASSEMBLY | EA | 1.0000 |
| |BH030010 | 10 | 5 | STEERING PEDISTAL/SEAM COMPONENTS | EA | 1.0000 |
| |BH030020 | 20 | 5 | RUDDER MOUNTING COMPONENTS | EA | 1.0000 |
| 11 |309555 | 60 | 200 | RUDDER BRG ASSY,RS-HUN450-00 | EA | 1.0000 |
| 11 |309556 | 70 | 200 | RUDDER BRG ASSY,RS-HUN450-01 | EA | 1.0000 |
| |BH030030 | 30 | 5 | STEERING HARDWARE MOUNTING COMPONET | EA | 1.0000 |
| 96 |310850 | 100 | 450 | STEERING WHEEL #S24-42*-909 35'37'4 | EA | 1.0000 |
| 96 |311080 | 110 | 450 | PEDESTAL NUT (STEERING)S/S H673ST 1 | EA | 1.0000 |
| 81 |311648 | 130 | 450 | DRAG LINK,STEER,CUT 34 1/2",H410-46 | EA | 1.0000 |
| 81 |311651 | 140 | 450 | TILLER ARM,STEER,H836,4*X5/8"H46 | EA | 1.0000 |
| 31 |311695 | 120 | 450 | STEER,W/LEFT EYE,H470,H380-460 | EA | 1.0000 |
| |BH030040 | 40 | 5 | PEDISTAL GUARD MOUNTING COMPONENTS | EA | 1.0000 |
| |BH030050 | 50 | 5 | RUDDER FINISHING COMPONENTS | EA | 1.0000 |
| 80 |101730 | 10 | 105 | EPOXY INTERLUX 2000/2001 KIT | KT | 0.5000 |
| |BH030060 | 60 | 5 | EMERGENCY TILLER COMPONENTS | EA | 1.0000 |
| 81 |101340 | 100 | 400 | COTTON CAULKING KEEL | FT | 2.0000 |
| 81 |314055 | 110 | 550 | TILLER,EMERGENCY, H460 | EA | 1.0000 |
| 10 |706996 | 20 | 792 | PIPE, BLACK, PE 1" X21' | FT | 2.4156 |
| 10 |707092 | 30 | 240 | PIPE,BLACK,SCH30 2"BPE (EMERG TILL | FT | 0.6660 |
| 10 |707220 | 10 | 240 | ROUND BAR, 1/4" DIA X 12' TY304 | FT | 0.6663 |

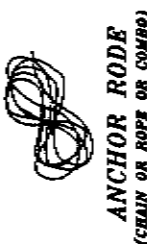
HUNTER
H460 STEERING COMPONENTS PARTS LIST
 NONE
 3/26/88
 480808C
 ENGINEERING DEPT.



DANFORTH ANCHOR



PLOW ANCHOR



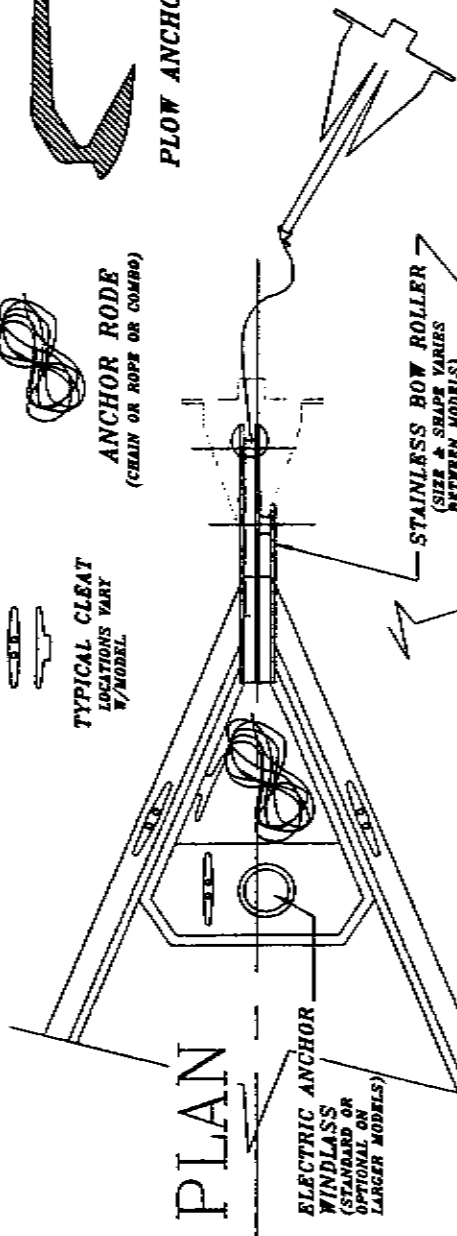
ANCHOR RODE (CHAIN OR ROPE OR COMBO)



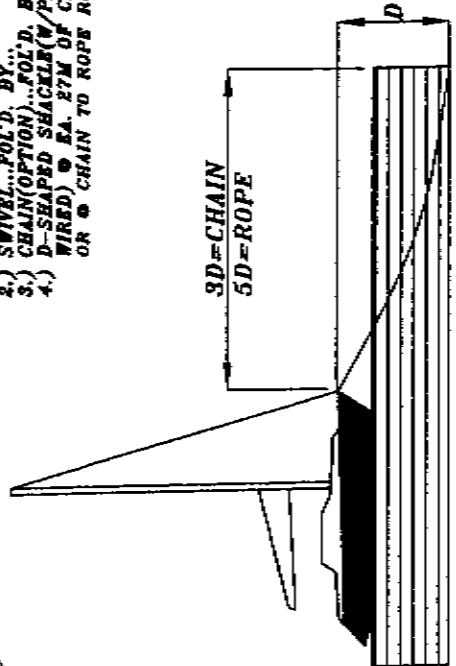
TYPICAL CLEAT LOCATIONS VARY W/MODEL

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.



PLAN



ELEVATION

WATERLINE

HUNTERCRAFT
 H460 BASIC ANCHORING DIAGRAM
 DRAWING NO. H460A070
 NAME: NONE
 DATE: 2/4/99
 ENGINEERING DEPT.