C-24 | Center Walkaround Owner's Manual





TABLE OF CONTENTS



Table Of Contents	2
Congratulations	3
Safety	3
Garbage Disposal & Oil Overboard Placards	4
Symbol Glossary	5
Specifications (Subject To Change Without Notice)	6
Equipment Location Starboard Fittings Port Fittings Stern Components Main Cabin And Cockpit Lights Fuel System, Engine, Generator Raw Water / Sea Strainer System Fresh Water Plumbing System Bilge Pump System Waste System With Macerator Pump Battery Configuration Fuse Location & Values 12V Helm Control Operation Cutwater C-24 Wiring Schematic (Acc. 1) Cutwater C-24 Wiring Schematic (Acc. 2) Cutwater C-24 Wiring Schematic (Acc. 3) Cutwater C-24 Wiring Schematic (P.D.P.)	7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
Cutwater C-24 Working Deck	23
Care And Maintenance	24 25
Designated Occupant Positions	27
Warning Label Locations	28
Contacts	29



CONGRATULATIONS

The Cutwater family has a passion for boating. We are committed to continuous process improvement in all areas that affect our customer's satisfaction with our products and providing great customer service.

SAFETY

Safety is always a concern at Cutwater. Please read all manuals to ensure that equipment is used in a safe manner. We highly recommend attendance in a Coast Guard approved boating safety course. Such courses are available from the Coast Guard directly or from boating organizations. Owners should have annual inspections to ensure that all safety equipment is current.

WARNING

Operating, servicing and maintaining a recreational marine vessel can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, service your vessel in a well-ventilated area and wear gloves or wash your hands frequently when servicing this vessel. For more information go to www.P65warnings.ca.gov/marine.

MAXIMUM CAPACITIES

10 PERSONS OR 1450 LBS.

2350 LBS, PERSONS, MOTOR AND GEAR
300 HORSEPOWER MOTOR MAX

THIS BOAT COMPLIES WITH U.S. COAST GUARD SAFETY STANDARDS IN EFFECT ON THE DATE OF CERTIFICATION

MANUFACTURER: FLUID MOTION LLC

MODEL: CUTWATER 24CW

ARLINGTON, WA

GARBAGE DISPOSAL & OIL OVERBOARD PLACARDS



Required by the USCG in a language all passengers understand. These are installed at the factory. If damaged or missing after use they should be replaced. Text should cover approximately the following:

GARBAGE DISPOSAL

DISPOSAL OF ALL GARBAGE PROHIBITED EXCEPT OTHERWISE SPECIFIED

THE ACT TO PREVENT POLLUTION FROM SHIPS (MARPOL ANNEX V) PLACES LIMITATIONS ON THE DISCHARGE OF GARBAGE FROM VESSELS. IT IS ILLEGAL TO DUMP PLASTIC TRASH ANYWHERE IN THE OCEAN OR NAVIGABLE WATERS OF THE UNITED STATES. IT IS ALSO ILLEGAL TO DISCHARGE GARBAGE IN THE NAVIGABLE WATERS OF THE UNITED STATES, INCLUDING THE GREAT LAKES. THE DISCHARGE OF OTHER TYPES OF GARBAGE IS PERMITTED OUTSIDE OF SPECIFIC DISTANCES OFFSHORE AS DETERMINED BY THE NATURE OF THAT GARBAGE.

TYPE OF WASTE

DISCHARGE PERMITTED

PLASTICS - INCLUDES SYNTHETIC ROPES, FISHING NETS, AND PLASTIC BAGS

PROHIBITED IN ALL AREAS

FLOATING DUNNAGE, LINING AND PACKING MATERIALS

PROHIBITED LESS THAN 25 MILES FROM NEAREST LAND

FOOD WASTE, PAPER, RAGS, GLASS, METAL, BOTTLES, CROCKERY, OR SIMILAR REFUSE PROHIBITED LESS THAN 12 MILES FROM NEAREST LAND

COMMINUTED OR GROUND FOOD WASTE, PAPER, RAGS, GLASS, ETC.

PROHIBITED LESS THAN 3 MILES FROM NEAREST LAND

VIOLATION MAY RESULT IN HEAVY PENALTIES

OIL OVERBOARD

DISCHARGE OF OIL PROHIBITED

THE FEDERAL WATER POLLUTION CONTROL ACT PROHIBITS THE DISCHARGE OF OIL OR OILY WASTE INTO OR UPON THE NAVIGABLE WATERS OF THE UNITED STATES, OR THE WATERS OF THE CONTIGUOUS ZONE, OR WHICH MAY AFFECT NATURAL RESOURCES BELONGING TO, APPERTAINING TO, OR UNDER THE EXCLUSIVE MANAGEMENT AUTHORITY OF THE UNITED STATES. IF SUCH DISCHARGE CAUSES A FILM OR DISCOLORATION OF THE SURFACE OF THE WATER OR CAUSES A SLUDGE OR EMULSION BENEATH THE SURFACE OF THE WATER, VIOLATORS ARE SUBJECT TO SUBSTANTIAL CIVIL PENALTIES AND/OR CRIMINAL SANCTIONS INCLUDING FINES AND IMPRISONMENT.

SYMBOL GLOSSARY





Attention! - Important Operating or Maintenance Instructions



Attention! - Electrical Shock Hazard



Fresh Water



Waste Tank



Fuel



Standard Equipment



Optional Equipment



Hints

SPECIFICATIONS



C-24 Center Walkaround

Length rigged LOA (motor down)	.29' 2"	8.9 m
Length rigged LOA (motor up)	. 31'	9.5 m
Beam	.8' 6"	2.6 m
Draft (motor down)	.32"	.8 m
Draft (motor up)	.19"	.5 m
Weight, dry	.6,300 lbs	2,858 kg
Bridge clearance (no top)	. 7' 1"	2.2 m
Bridge clearance (w/ ht/bimini)	.8' 2"	2.5 m
Bridge clearance (w/ ht & radar)	.9'0"	2.7 m
Height on factory trailer (no top)	.9' 4"	2.8 m
Height on factory trailer (w/ht/bimini)	.11' 4"	3.5 m
Height on factory trailer (w/ht & radar)	.12' 2"	3.7 m
Fuel capacity		439.1 L
Water capacity	.26 U.S. Gal	98.4 L
Holding tank capacity	.13 U.S. Gal	49.2 L

EQUIPMENT LOCATION



STARBOARD FITTINGS

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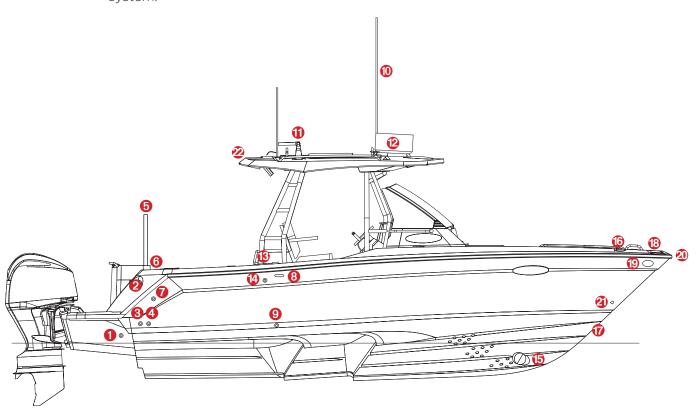
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9 12



Keep all vents, drains and exhausts clear of any obstructions to ensure proper performance of each system.



- 1 Swim Step Drain
- 2 Fuel Fill
- **3** Aft Bilge
- 4 Forward Aft Bilge
- **5** Ski Pole
- **6** Waste Pumpout
- Waste Tank Vent
- 3 Trailering Side Marker Light

- Macerator Thru-Hull
- VHF Antenna
- 4 Anchor Light
- Radar
- Water Fill
- Water Tank Vent
- **6** Bow Thruster
- 16 Nav Light

- Bow Eye
- Windlass
- Horn
- ② Bow Pulpit with Beaching Ladder & Anchor Roller
- 2 Anchor Locker Drain
- Rocket Launchers

PORT FITTINGS



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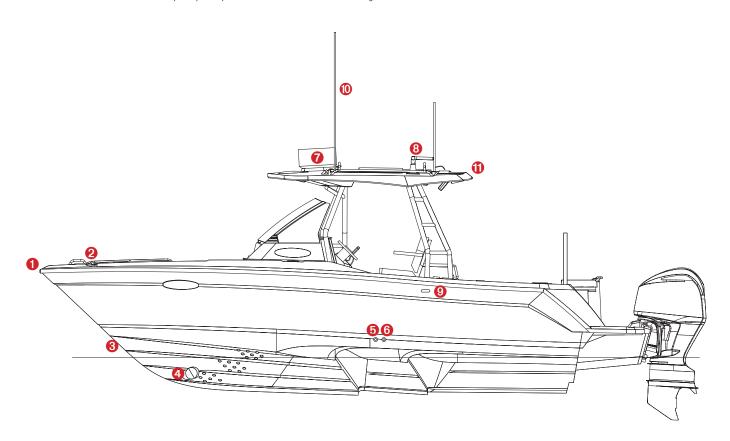
1 2 3 4 5 6 8 9 10 11

OPT

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Keep all vents, drains and exhausts clear of any obstructions to ensure proper performance of each system.



- Bow Pulpit with Beaching Ladder & Anchor Roller
- 2 Nav Light
- **3** Bow Eye
- 4 Bow Thruster
- 6 Head Sink Drain

- **6** Forward Bilge Drain
- **7** Radar
- 8 Anchor Light
- Trailering Side Marker Light
- **0** VHF Antenna
- Rocket Launchers

STERN COMPONENTS

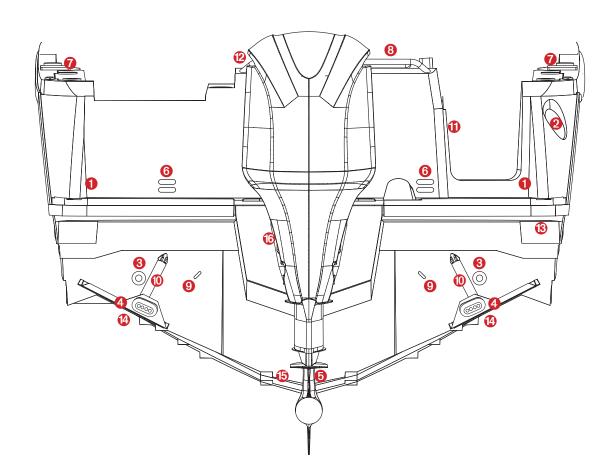


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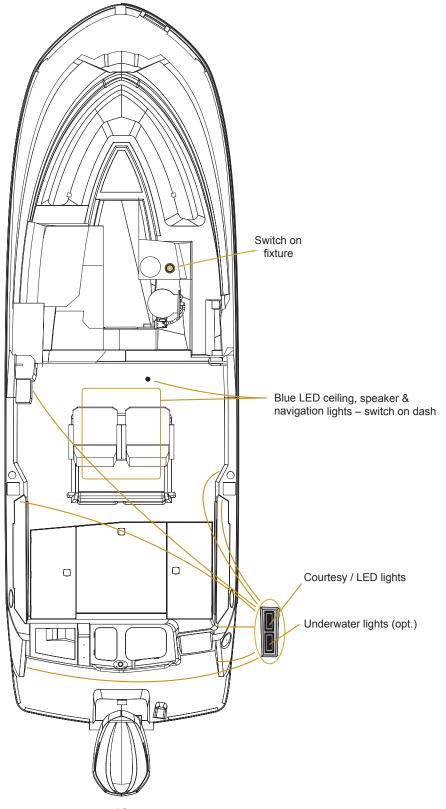
- 1 Swim Platform Courtesy Lights
- 2 Fuel Fill
- **3** Cockpit Scupper Drains
- 4 Underwater Lights
- **6** Drain Plug

- 6 Trailer Turn/Brake Lights
- **7** Rod Holders
- 8 Flagstaff Mount
- Towing Strapdown
- 10 Trim Tab Ram

- Shower
- Ski Pole
- Swim Ladder
- Zincs
- **6** Lower Unit Zinc
- **6** Motor Mount Zinc

MAIN CABIN AND COCKPIT LIGHTS





FUEL SYSTEM, ENGINE

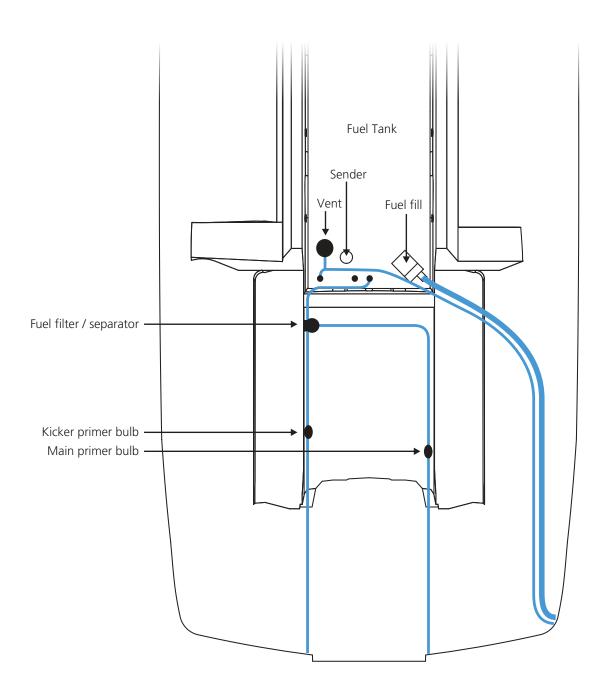


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Yamaha 250

OPT

Yamaha 300, Kicker (9.9 Yamaha)

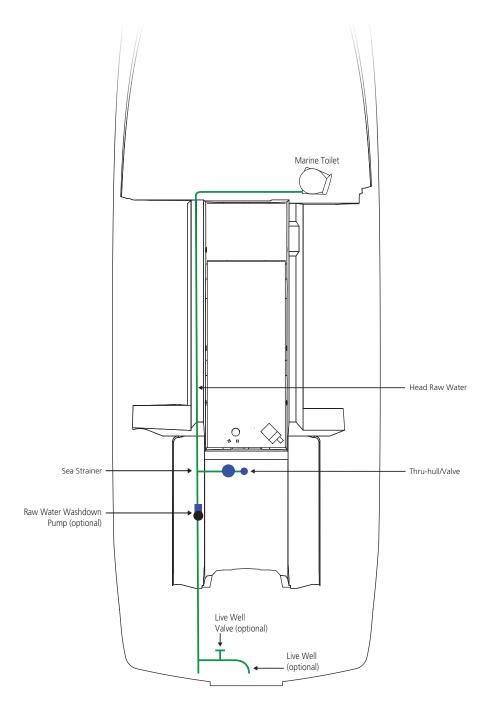


RAW WATER / SEA STRAINER SYSTEM



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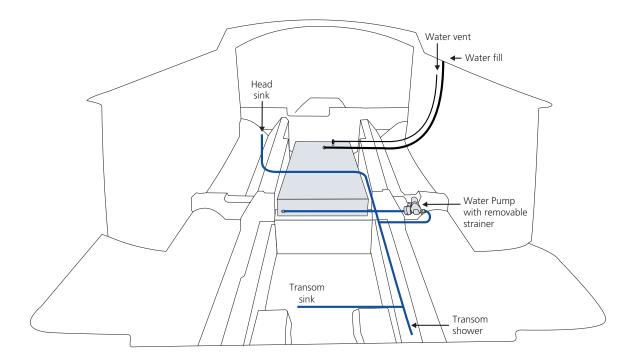
• Sea strainer for head and raw water wash down pump.





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26 Gallon Fresh Water Tank, 3.5 GPM Fresh Water Pump.



Disinfecting The Fresh Water System

The information contained in this appendix provides supplementary data about disinfecting a potable water system.

A SUGGESTED METHOD OF DISINFECTION

Perform the following steps in the order indicated:

- Flush entire system thoroughly by allowing potable water to flow through it;
- b. Drain system completely;
 c. Fill entire system with a chlorine solution having a strength of at least 100 parts per million, and allow to stand for one (1) hour. Shorter periods will require greater concentrations of chlorine solution. See Table I
 d. Drain chlorine solution from entire system;
- Flush entire system thoroughly with potable water;

f. Fill system with potable water.

Table I shows how much disinfecting agent is required to make up various quantities of 100 parts per million chlorine

TABLE I - CHLORINE CONCENTRATIONS

Amount of chlorine compound required for 100 ppm solution

Solution (Gallons)	Chlorinated Lime 25% (ounces)	High Test Calcium Hypochlorite 70% (ounces)	Liquid Sodium Hypochlorite 1% (quarts)
5	0.3	0.1	0.2
10	0.6	0.2	0.4
15	0.9	0.3	0.6
20	1.2	0.4	0.8
30	1.8	0.6	1.2
50	3.0	1.0	2.0
100	6.0	2.0	4.0

NOTE: This table contains information taken from the Handbook on Sanitation of Vessel Water Points, Public Health Service Publication No. 274 - Reprinted June 1963.



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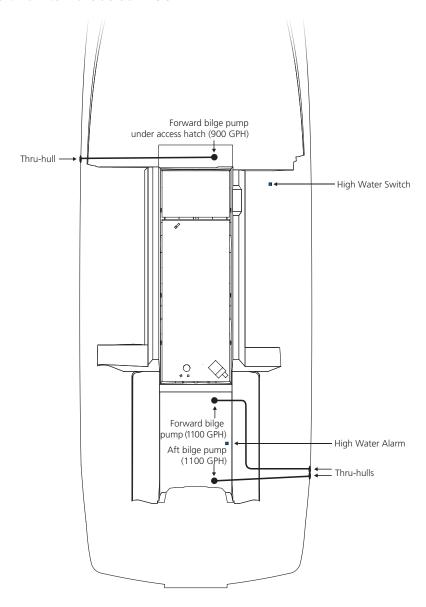
12V 1100 GPH 12v 900 GPH



The bilge pumps operate automatically by checking for water every 2.5 minutes even with battery switches and breakers in the OFF position.

However, the bilge pumps will run continuously once their switches are placed in the on position. Monitor the outflow accordingly. Do not run when dry.

- All manual bidge pump switches are located at the helm.
- V-berth switch is labeled "ACCY".



WASTE SYSTEM WITH MACERATOR PUMP



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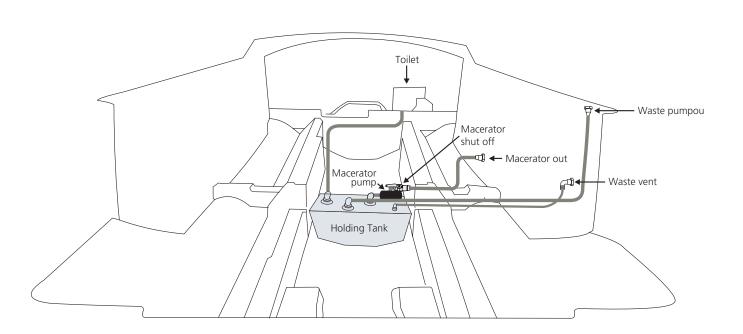
13 Gallon Tank with standard pump out, and vent

ОРТ

Macerator pump out

- Waste tank pump out stations are widely available.

 Please follow the directions carefully for the pump out equipment you are using to avoid damage to the waste system.
- Boat owner is responsible for following all applicable laws when using the macerator system to pump out into the surrounding waters.
- Overboard shutoff valve is accessed under the galley sink above the pump area.



BATTERY CONFIGURATION



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2 House Batteries, 1 Engine Battery

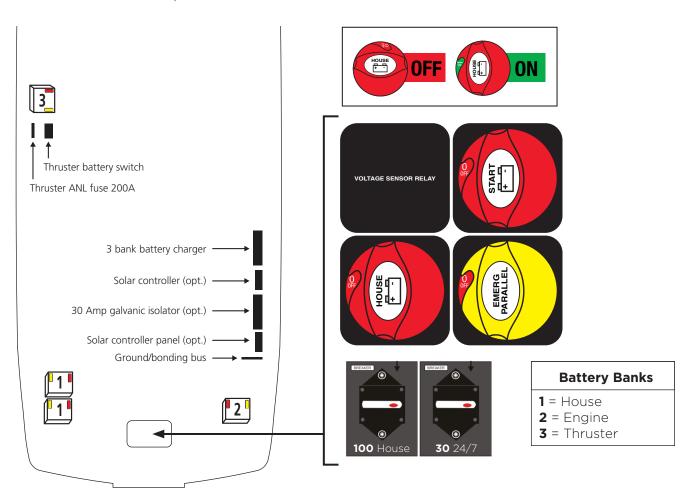
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House, start, & battery parallel switches and breakers are located in the access hatch beneath the stern sink.

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1 Thruster Battery. Thruster battery, switch and ANL fuse are located in the forward sink cabinet.

- Once the EMERGENCY PARALLEL switch is placed in the on position the power from the HOUSE batteries will be transferred to the ENGINE battery. Use only for EMERGENCY starting of the engine.
- If the house bank drops below 10.8v you must reset the charging relay by switching on the parallel while the engine is running or while plugged into shore power.



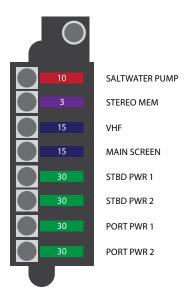
FUSE LOCATION & VALUES



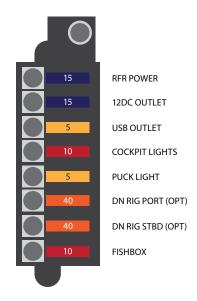
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Dash fuse blocks are located behind a hinged access panel in the head. Fuses are automotive blade type and all values shown below are in Amps.

FUSE BLOCK #1



FUSE BLOCK #2



FUSE BLOCK #3 - 24/7



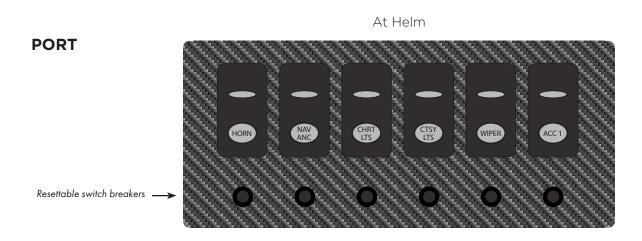
12V HELM CONTROL OPERATION

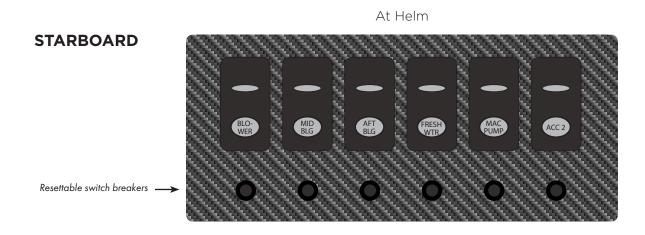




The bilge pumps operate automatically with electronic float switches regardless of battery switch position. This should be tested weekly.

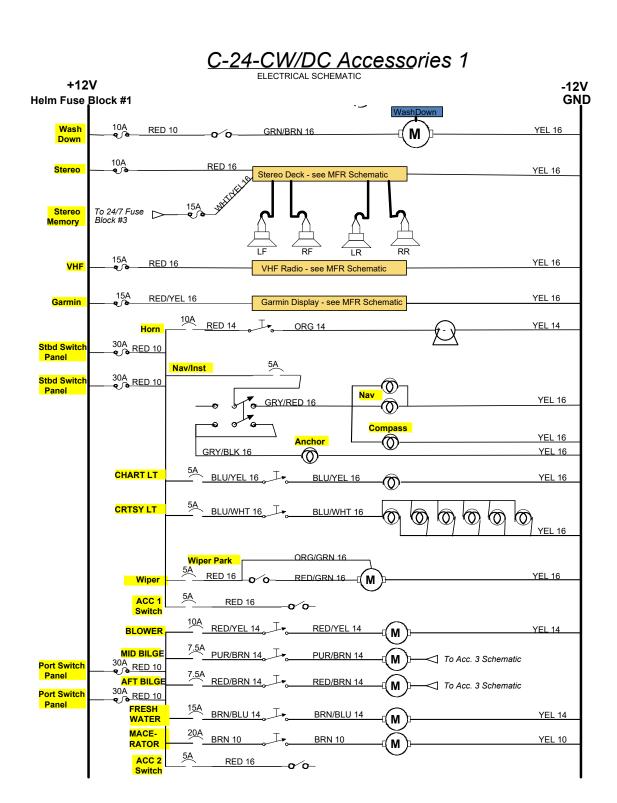
However, the aft, mid and forward pumps will run continuously once their switches are placed in the on position. Monitor the outflow accordingly. Do not run when dry.





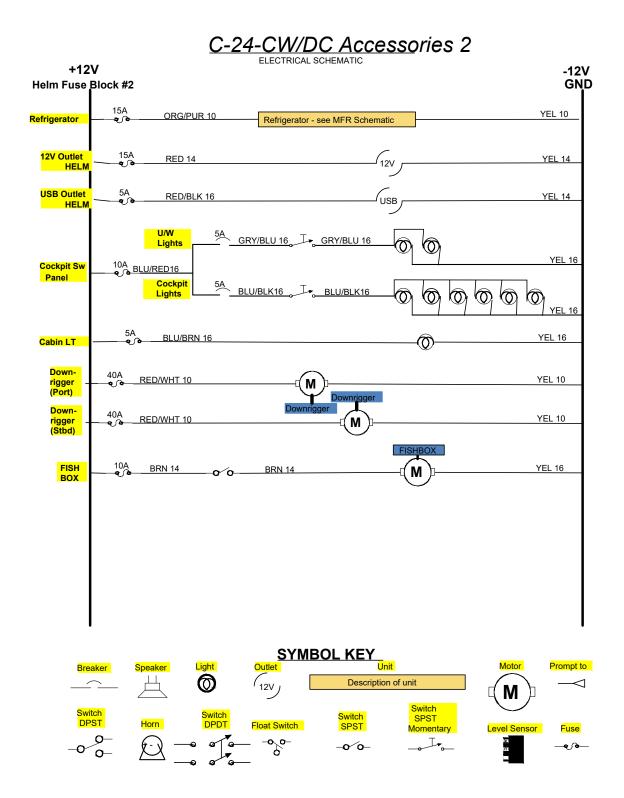
C-24 CW WIRING SCHEMATIC (ACC. 1)





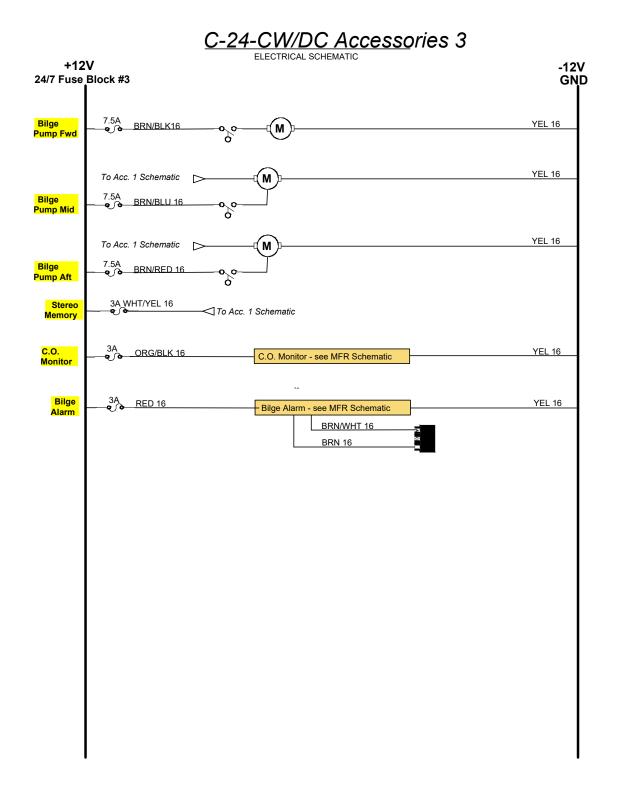
C-24 CW WIRING SCHEMATIC (ACC. 2)





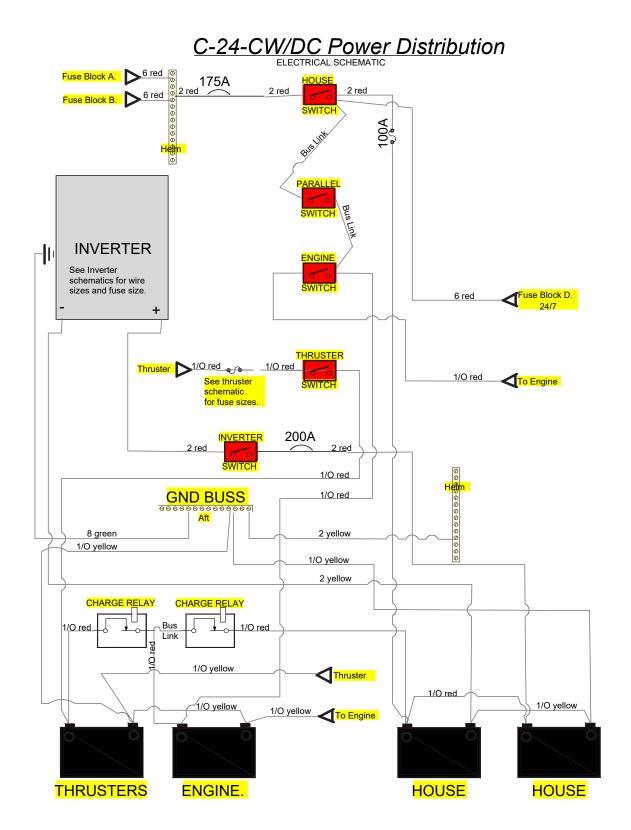
C-24 CW WIRING SCHEMATIC (ACC. 3)





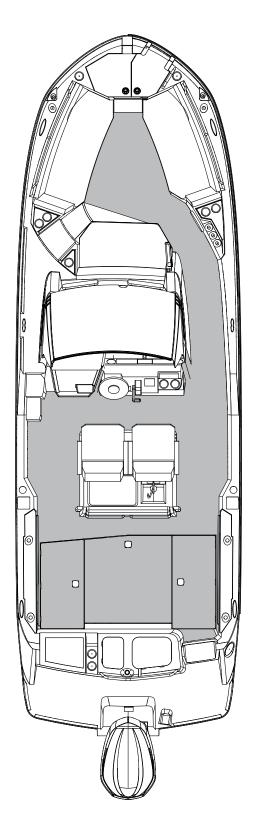
C-24 CW WIRING SCHEMATIC (P.D.P.)







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CARE AND MAINTENANCE

TOW VEHICLE - PRIOR TO USE





The following checklists are examples and are not all inclusive and are provided only as a guide. Please customize to your personal needs. Consult your engine and trailer user manuals for additional information.

EXAMPLE OF A PREPARATION FOR THE ROAD CHECKLIST

	Test Lights.
	Check brakes.
	Check tire pressure and condition.
	Check hitch related electrical connections.
BOAT	- PRIOR TO USE WITH TRAILER
	Lower mast.
	Lower VHF antenna.
	Secure the Bimini awning frame.
	Raise and secure swim platform ladder.
	Set all switches and breakers to the OFF position, Including Thruster/Windlass cutoff switch.
	Close and secure all windows, ports and vents.
	Clear countertops.
	Lock fridge latch.
	Check engine is up!
	Lock cabin.
	Remove Drain Plug.

EXAMPLE OF A SPRING PRE-LAUNCH CHECKLIST



CL	E	Α	N	I	N	G

	Remove debris from scuppers and scupper drains. Clean hull using a mild biodegradable detergent and then wax. Clean topsides and decks using a mild biodegradable detergent and then wax. Clean and polish all bright work. Clean and oil teak. Clean windows, ports, and hatches. Clean bimini cover. Check and clean anchor, rode, and anchor storage compartment.
INSPE	CTION
	Check pare parts and tools and replace as necessary. Check wiper blades. Check swim platform. Inspect and test trim tabs. Check condition of bottom paint. Check windlass. Verify electronics for correct operation. Check all inside and outside lights. Macerator Valve in proper position and secured. Inspect and verify position of all sea cocks and shut off valves. Check alarms for proper operation. Check fluid levels.
SAFET	TY EQUIPMENT
	Sound signaling device. Check flares and their expiration dates. Check personal flotation devices/throw cusions. Check fire extinguishers and their fill dates. Boat hook. Lines/fenders. First aid kits.
GALLE	
	Check stove for proper operation.

DOCUMENTS

- ☐ Registration sticker.
- ☐ Insurance papers and Passports.

☐ Check everyday utensil stock.

- ☐ Boat Inspection sticker.
- ☐ Charts and float plan forms.

EXAMPLE OF WINTER STORAGE CHECKLIST

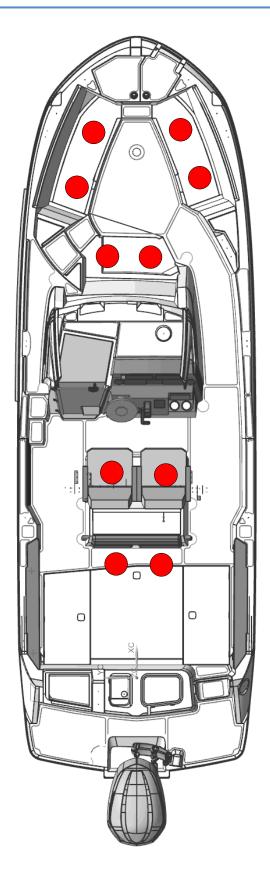


GEN	EDA	ΙΜΔ	INTEN	ANCE

		Fill Fuel Tank and add a fuel stabilizer.
		Empty and clean black water tank.
		Empty fresh water tank use a non-toxic antifreeze per manufacturer's directions,
		or remove all water from the system.
		Winterize black and fresh water tanks as necessary based on weather.
		Check bilge area for oil and for proper operation
		Check zincs and replace as necessary.
		Check and clean water strainer.
		Clear barnacles and debris from hull fittings.
		Trickle charge batteries every 30-60 days.
		Vent boat to prevent mildew.
		Remove Drain Plug.
		Turn off all battery cutoff switches.
ENI	GIN	E
EIN	GIN	E
		Flush engine(s) with fresh water.
		Check all fluid levels.
		Check all hose fittings.
		Check impeller.
		Check engine maintenance requirements.
GΔ	LLE	·Y
		Empty, clean and freshen refrigerator.
		Remove all dry food from storage.

DESIGNATED OCCUPANT POSITIONS





WARNING LABEL LOCATIONS



CONTACTS



Customer Service

Kenny Marrs, Customer Service Manager Phone: 253-839-5213 kennymarrs@rangertugs.com

Web Site

www.CutwaterBoats.com



17300 Tye st SE, Monroe, WA, 98272

Phone 253-839-5213 Fax 253-839-5218 **www.cutwaterboats.com**

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