



Fraser Shipyards
1 Clough Ave.
Superior, WI 54880
(715) 395-2255
www.lakeassault.com

14 July 2024

GSA Part number R24-9-PB/FB(Shipping not included)

GENERAL SPECIFICATIONS:

1. Hull Length 24' (does not include outboard engines, engine guard, or rub rails)
2. Beam 9 feet
3. Interior Length 19'
4. Interior Beam 83"
5. Overall height not to exceed 13'6" while on trailer and attached to a tow vehicle.
6. Draft should not exceed 18 inches with motors trimmed up and 24 inches with motors trimmed down
7. Person and cargo capacity 2,500 lbs.
8. Boat weight only 4,400 lbs approx.
9. Trailer weight 1,900 lbs approx.
10. Combined boat and trailer weight 6,300 lbs. approx.

B. HULL DESIGN & OUTFITTING:

1. Hull is a "V" hull with 18-degree deadrise at the transom
2. Bottom plating 1/4" 5086-H116
3. Side plating 3/16" 5086-H32
4. Deck plating .1/8"
5. Keel guard will have an additional 1/4" 5086-H116 plate
6. All decks are self-bailing and provide sufficient water egress.
7. There are sacrificial anodes attached to the hull for electrolysis protection.
8. A 3/4" aluminum double pad eye will be incorporated into the keel.
9. 1 1/2" pipe safety railings are installed throughout the vessel
10. Six (6) 10" welded aluminum cleats.
11. Deck structure and component material are aluminum, they consist of 5086 aluminum alloy with thicknesses of .190" and are fully welded to the hull and all deck height transverse bulkheads and longitudinal girders to contribute to the strength of the hull. Floor is supported by 2x2 square tubing.
12. There will be a Wing foam collar system around the gunwales of the boat to prevent hull damage with coming alongside of vessels or docks/piers.
13. One (1) 2000GPH automatic bilge pumps located at the transom. Bilge pump will be able to operate in the automatic and manual modes. Bilge pump will be wired directly to the hot side of the battery switch.
14. One (1) stainless steel threaded drain plug is provided.



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15. Single tow post and standard rope guard.
16. Dive relief cutouts on both port and starboard sides of the vessel
17. Drop down boarding access door at the bow. Fitted with WING collar section.

C. WELDING:

1. The hull and superstructure are constructed of marine grade aluminum and MIG and TIG welded throughout.
2. All water seams are welded 100% on both sides.
3. Longitudinal structural members are stitch welded on opposite sides.

D. FUEL SYSTEM:

1. 75-gallon fuel tank. The tank is made of aluminum. The tank is internally baffled to prevent shifting of the fuel load, and to ensure fuel pickup tube remains submerged in fuel.
2. Fuel tank is EPA compliant and meets all venting and overflow safety requirements.
3. A WEMA fuel sender is attached to a NMEA fluid level interface to supply data to electronic gauges.

E. CENTER CONSOLE:

1. Center Console to include extended aluminum hardtop (extended length to cover personnel standing behind stowage locker). Fwd console seat box with dry storage within sized to accommodate dept med bag 27"x18"x13". Forward seat box to have pad on top for seating. Windshield with wipers provided on forward fixed window. Center console fitted with single forward windshield and window on both port and stbd.
2. Console is placed for ideal CG balance to accommodate maximum visibility.
3. Overhead console provided.
4. Dash space will include room for Garmin MFD unit, backlit compass, shift/throttle controls, fuel gauge, one Law enforcement radio, tach/diagnostic motor gauges, 12vDC outlet (2), two (2) cupholders.
5. Go Light remote spotlight fitted on roof with controls located at operator station.
6. Operator position on Port side.
7. Console fitted with Pipe footrest
8. Folding bench seat fitted for operator/navigator
9. Backboard securing brackets mounted on the roof of the t-top are provided.



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F. ELECTRICAL SYSTEM:

1. The vessel's electrical system is 12VDC and 120 AC
2. All electrical cable is marine grade tinned copper wire and labeled for each circuit.
3. Cables are routed in wire ways wherever possible. Cables are protected with chaffing protection wherever exposed to potential damage.
4. Electrical cables are sized in accordance with the American Boat & Yacht Council recommendations.
5. All electrical cables are marked in accordance with the markings in electrical drawings.
6. All electrical switches are of a heavy-duty type toggles properly insulated.
7. The DC negative and AC ground are connected to the hull framework.
8. Wiring for radios, and all electronics are protected with circuit breakers. Two additional circuit breakers are provided for future expansion of the electrical system.
9. Electrical compartments are provided in the cabin to house the electrical power, circuit protection and control components. Serviceable components are accessible. Power, circuit protection and control components are protected against the following: corrosion, excessive heat, excessive vibration, water spray and EMI and RFI.
10. Mounting plates for antenna are on the roof.
11. Single wiper single motor with heavy-duty wiper system.
12. Two (2) 12-volt power outlets and two (2) USB charging ports are provided in the pilothouse.

G. BATTERIES:

1. Three (3) OPTIMA D34 AGM (absorbent glass mat) marine batteries are installed complete with battery switches.
2. Two batteries are installed as engine starting bank, one is a dedicated house battery. A three-position battery distribution panel, located on the console, includes a battery switch for each battery, crossover switches to allow jumping in case of a dead battery, and 3 automatic charging relays that direct the alternator or battery charger to the weaker battery. All battery switches are located on lower panel of console.
3. Battery isolators or voltage sensing relays are used to charge the house bank via the outboard alternators.
4. Batteries are installed in plastic battery trays and located in a dedicated mechanical space.

F. 12V DC ELECTRICAL:

1. One Blue Seas 12 position distribution panels are installed on the console.



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2. LED Navigation lights are installed to meet USCG requirements with hinging anchor light mast.
3. One 12V 2000 GPH bilge pumps are installed with automatic float switch.
4. Includes 2 Blue Seas 12v/USB charging ports.
5. Four (4) DR. LED flood lights mounted on pilothouse.
6. 8 Blue (four red and amber) LED flashers mounted on the outer edge of the pilothouse.
7. Low level LED lights.
8. 12 Vdc electric horn with momentary switch on the dash.

G. PROPULSION:

1. Twin 200 hp Mercury outboard engines. Stainless steel props are provided. This is complete with a fuel management system, key management system, key switch panel, power trim and tilt, harness.
2. Engine monitoring to be done through digital gauge package.
3. Stainless Steel steering wheel with knob to be provided.
4. Single binnacle controls
5. Manual Hydraulic Steering system to be provided.

H. ELECTRONICS:

- I. One (1) Garmin 12" TOUCH SCREEN with GPS, SONAR with SideVu and DownVu, CHART PLOTTING and transducer provided.
- J. Garmin 18-inch radar provided.
 1. VHF radio and antenna installed.
 2. Whelen SA315 P Speaker, WPA3BM Control Head, WPA112 Siren/PA.
 3. Lake Assault will mount radios, mics and antennas with the mounting equipment supplied by the customer(at additional cost), run power wires to a fuse block and route antenna cabling. Radios should have a flush mount kit provided. All antenna mounts must be made to mount in a minimum material thickness of 1/8". Antenna connections and programming are the responsibility of the department and Lake Assault does not hold any liability to the functionality of used equipment after installation.

J. TRAILER:

1. A custom aluminum dual axle bunk trailer complete with surge brakes, spare tire, and tongue jack on trailer, ladder on trailer to aid in getting into the boat while on the trailer
2. Galvanized steel wheels and surge disc brakes.
3. An adjustable bow stops and winch stand is provided with a manual 2-speed winch and strap.
4. Trailer LED lights are submersible.



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K. WARRANTY:

1. 5-year warranty on the hull, stringers and transom from structural defects
2. The WING Collar system will have a 3-year warranty on material defects

L. Paint:

1. Deck will have a multi spec applied.