



Professional Products News

Fall 2002

New Products Newsflash

Order Fully Equipped Zodiacs With Single GSA Part Numbers

More Zodiac boats than ever before are now available "turn key ready" on the GSA schedule with a single GSA part number. For example:

- Fully equipped 63010 USCG Cutter Boats – Large (GSA p/n S-M-637003) and Medium (GSA p/n S-M-540002) includes engine, Delta console and seat, instrument package, bow box, battery and more.



63010 USCG Cutter Boat

- Fully equipped Navy 7 meter RIB P (GSA p/n S-M-738005) includes engine, console and seat, instrument package and more.



Navy 7 meter RIB

Armorflote: The World's Only Bulletproof System for Inflatables

Protect your team; protect your boat as never before. The revolutionary Armorflote system (see story on page 2) is available now for the F-470 CRRC and can be ordered for other boats as well.

New DuraRib II Tubes

Zodiac's patented DuraRib II foam tube system is now available. It is designed to be interchangeable with the air sponsons. Order DuraRib II tubes to replace existing air collar tubes or specify DuraRib II tubes when ordering new Zodiac RIBs.

See "New Products" page 4

Attention: Law Enforcement, Military, Fire & Rescue

Bulletproof Tour Takes Aim Against Terrorism Sept. 28-Oct. 11

Convoy of Counter-terrorism Pros Offers Free Training; First-Hand Look at Bulletproof Inflatables

As a service to America's law enforcement, military, fire and rescue departments, Zodiac is sponsoring free training designed to help these agencies combat terrorism. The Bulletproof Tour will hit the water the weekend of September 28 and 29 in Minneapolis, Minnesota and travel down the Mississippi River with training seminar stops in St. Louis, Memphis and New Orleans, and a number of other stops to connect with local agencies. Highlights of the Bulletproof Tour include:

- Free counter-terrorism training by the National Wilderness Training Center, one of the industry's most respected training companies.
- Demos of the latest Zodiac models, including the F-470 CRRC with the new Armorflote bulletproof system and the new DuraRib II foam collar system that is mission-capable even when shot.
- A chance to meet Rudy Boesch MCPO (SEAL) Ret., better known as "that guy from the first season of the TV show Survivor." Rudy will pilot the new Zodiac Ribster™ (a military folding RIB) down 1,700 miles of the Mississippi, along with Jack Lynch, LT (SEAL) Ret.
- Participation by Minnesota Governor Jesse Ventura (former Navy SEAL) on launch day (September 29).
- A fundraising effort to benefit the Naval Special Warfare Foundation, which provides



scholarship grants and other support to the surviving children of Naval Special Warfare personnel killed in the line of duty.

Check Out The Web Site

Find out more about the Bulletproof Tour at www.bulletprooftour.com, where you'll find:

- Interactive tour map with tour schedule
- Training information
- Tour diary with city by city news and video clips
- Phone and e-mail contact information for Rudy and Jack (cheer them on!)
- Zodiac boats on the tour
- Sponsor information, including Bombardier and Evinrude

Zodiac – Proud Supporters of:



Zodiac – Proud Members of:



Zodiac Unleashes Armorplate at MACC



Zodiac F-470 CRRC with Armorplate system inflated

New bulletproof system for F-470 CRRC attracts worldwide attention

In June, Zodiac unveiled Armorplate (patent pending), the world's first inflatable bullet-resistant system for Combat Rubber Raiding Craft (CRRC), at the 2002 Multi-Agency Craft Conference (MACC), in Norfolk, Virginia. The inflatable Armorplate system made its debut on the legendary Zodiac F-470 CRRC, which has been used for decades by military and special forces operations worldwide.

"This inflatable bulletproof system will revolutionize the way maritime missions are conducted on the water," said Rick Scriven, vice president of Zodiac Professional Products. "If you are ambushed, Armorplate could help you live to fight another day," he continued.

The inflatable Armorplate system turns a standard F-470 into a bulletproof boat in about 40 seconds.

The system was very well received by the crowd at MACC. A number of military and Coast Guard customers attended the Zodiac demo day immediately following the event just to see Armorplate in action. The introduction of Armorplate also drew worldwide attention from the news media, including Fox TV news, BBC radio, Canadian radio, U.S. ABC and CBS TV affiliates, and such publications as *Jane's Defense News*, *Army Times*, *Defense Daily*, *Sea Power*, *Maritime Reporter*, *Soundings*, *International Boat Industry* and many others.

The Armorplate system is available with soft armor made from a ballistic material provided by Simula, Inc. The soft armor package folds and stores on the inflatable tubes in minimal space and when needed can be inflated rapidly (about 40 seconds) to provide armor protection for CRRC occupants, the boat and the engine. Hard armor panels can be inserted in pockets on the inflated soft armor panels to provide upgraded protection. The armor is combined with Zodiac's high pressure fabric panels.

For more information, please contact Rick Scriven at 410-643-4141 ext. 3008 or rscriven@zna.zodiac.com



Zodiac F-470 CRRC with Armorplate system inflated

New Shock Mitigation Systems Hit Mark at MACC

High-Tech Seating System Helps Troops "Arrive Fresh Enough to Fight"

One of the most talked-about topics of discussion at the 2002 MACC conference was shock mitigation – the urgent need for systems to alleviate vibration injuries sustained by boat crews bouncing on rough waves at high speed. According to a research paper from the Naval Health Research Center, a 36-foot crew boat in rough conditions can expect to encounter forces up to 10 times greater than gravity – more than most aircraft can handle safely.

"This issue has been an absolute priority for us in creating safer boats for our military and Coast Guard customers," said Rick Scriven, vice president of Professional Products for Zodiac. "As a former Recon Marine who has sustained shock-related injuries, I can personally attest to the critical need for shock alleviation systems on small watercraft. This is why Zodiac has partnered with Ullman to produce seating systems that address this problem," said Scriven.

Ullman Human Design is known worldwide for its success in designing systems to help man interface with machine.

Zodiac SMS Seating System

Zodiac SMS (shock mitigation system) seats incorporate Ullman technology to reduce injury and fatigue to operators and passengers of high-speed boats in extreme conditions. These seats, created specifically for Zodiac boats, allow the operator and passengers to maintain a posture better suited for high-speed boat operation, and the seats themselves absorb a great deal of the shock generated at such speeds. As a result, those who work on the water can do their jobs faster, safer and more efficiently, suffering less from fatigue and injury, and arriving at their destinations fresh enough to perform the mission at hand.

For more information, please contact Rick Scriven at 410-643-4141 ext. 3008 or rscriven@zna.zodiac.com



Zodiac Supports Police SWAT Competition

In May, as part of National Police Week, Zodiac sponsored a competition for "Water Rescue and Recovery of a Downed Officer." The competition, which was held in Hurlburt Field, Florida, was open to SWAT teams and correctional officers from the state of Florida. Using F-470 CRRCs, 14 teams raced against the clock to make a simulated rescue. Response times ranged from 5 – 14 minutes, with the winning team, Gulf Correctional Institute, clocking in at 5:41. Second place went to Okaloosa County Sheriffs Office, with a time of 6:08, and third place went to Panama City Police Department, with a score of 6:34.

Zodiac Mobile Repair Units Hit The Road

The new Mobile Service Program is proving to be a critical element in achieving Zodiac's mission to continuously improve support for customers in the field. Here are a few recent "road stories" from the mobile repair units:

- Tim Frank from Inflatable X-perts in Annapolis, Maryland, recently made service calls to USCG Station Wilmette Harbor in Chicago and Station Sheboygan in Sheboygan, Wisconsin. Frank also made a customer service stop at Coast Guard Group Milwaukee to explain the mobile service for parts as well as repairs. And like a true road warrior, Tim was on the road straight through Memorial Day weekend to complete his mission.

- John Verrecchia from the new Inflatable X-perts in Charleston, South Carolina (John recently moved to Charleston from the Fort Lauderdale location) is finding that the mobile repair service is helping customers appreciate the full value of proper repair and maintenance. "This service is proving very beneficial to our customers," he says. "With the high turnover of boat crews, much of the information on repairs and maintenance is lost or forgotten. One of the things we do is train crews on maintenance and basic repair that will save customers money and reduce equipment down-time." John has visited Navy installations in the Charleston area and Coast Guard stations in Florida, Georgia and South Carolina to make on-site repairs and train crews on proper maintenance for their boats.

For more information, please contact Scott Clendenin, Zodiac Coast Guard Support Manager, at 1-800-884-7238 or sclendenin@zna.zodiac.com

Customer Currents:

New H733 OTHs for Coast Guard Cutters Decisive, Chase and Munro



CG Cutter Decisive training graduates

In May and June, Coast Guard units in Alameda and San Diego, CA, and Wilmington, NC, took deliveries on three new H733 OTHs. The H733 OTHs came outfitted with advanced electronics packages, including radar, GPS and classified radio systems, and will be used primarily for drug interdiction and law enforcement missions. Zodiac instructor Jake Albinio, a Coast Guard veteran with 27 years experience in search & rescue, conducted intensive three-day trainings with each boat crew to instruct them on boat operations and advanced search & rescue techniques.

Contact: Cory Clarkston: 619-596-7421 or cclarkston@zna.zodiac.com

Coast Guard Station Bayfield, WI Receives New H920 OB

In May, Zodiac instructor Jake Albinio delivered a new H920 OB to Coast Guard Station Bayfield, in Bayfield, Wisconsin. The H920, known for its speed and power, will be used primarily for search & rescue missions, and can tow boats up to 60 feet. The H920 OB features an indoor heated cabin and advanced electronics package including radar, GPS

and radio system. Albinio spent three days in Bayfield training the new boat crew.

Contact: Cory Clarkston: 619-596-7421 or cclarkston@zna.zodiac.com



CG Station Bayfield training graduates

Springfield, MA Fire Department Uses Zodiac Hurricane 533

Pictured at right: Springfield Fire rescue workers and emergency medical technicians remove a stretcher bearing a Chestnut Middle School teacher from a Zodiac H533 boat on Porter Lake in Springfield's Forest Park, in March 2002. The teacher was on a field trip with 19 seventh graders when she complained of weakness. More than 20 firefighters, police and EMTs responded to the incident. The Zodiac boat allowed rescue personnel to cut across the lake and pick up the woman in an area not accessible to vehicles. For more information, please contact Dick Cromwell at Inflatable Xperts: 508-358-9622 or rhcromwell@attbi.com



Zodiac H533

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"Mega" Fire Boat for Harrods Creek

The Harrods Creek Fire District in Jefferson County, Kentucky, launched its new 38-foot custom Zodiac fire/rescue boat in August. Representatives of the district contributed to the design. Numerous custom features include a 12' x 8' pilot house with heat and air conditioning, two Yanmar 440 h.p. diesel engines, Twin Disc marine transmission and jets

and a Waterous S-100 pump rated at 1500 GPM. Engine manufacturer Yanmarh and Zodiac provided comprehensive training when the boat was delivered.



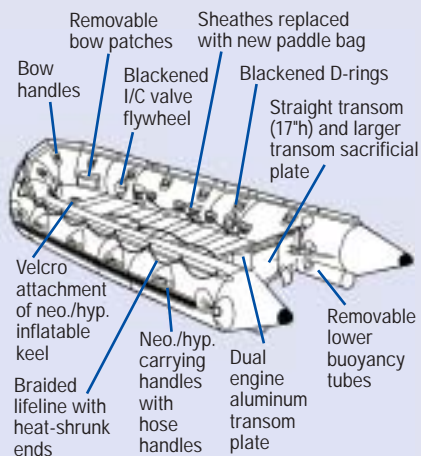
For more information, contact Jack Burgess, Jr.: 419-994-5584 or burgess@bright.net

New and Improved Zodiac F-470 CRRC

The Zodiac F-470 CRRC – perhaps the best-known Zodiac boat worldwide among the military and special forces units – is better than ever with a number of new design improvements (see drawing for details). **It is available on GSA under p/n Z83012**

Zodiac of North America

540 Thompson Creek Road
Stevensville, MD 21666



Dripless Fuel Lines, Quick Disconnect Systems, Repair Kits

Check out these three new items developed by Zodiac at the request of the MARCORSYSCOM (see Tech Talk story). All have been tested extensively and approved for military combat duty on the Zodiac F-470 CRRC.

The Unique Ribster™ 530

The new Zodiac Ribster 530 LSC (light strike craft) is a larger version of the revolutionary Ribster 500 LSC introduced by Zodiac last year. The Ribster models are the first military RIBs with foldable, collapsible and storable hulls. The Ribster 530 features a number of design improvements in addition to its larger dimensions.

Order the Ribster 530 LSC with GSA p/n 280204.



Ribster 530 LSC

For more information on ordering any of these new Zodiac products through GSA, contact Jackie Dolch at 410-643-4544, ext. 3009; e-mail: jdolch@zna.zodiac.com

Tech Talk

By Albert Czartoryski
Technical Manager, ZNA

ZODIAC is proud to introduce three new items, at the request of the MARCORSYSCOM, which have been tested extensively and approved for military combat duty on the Zodiac F-470 CRRC boats. One could almost say that these products are “Marine Corps Proof”:

Purpose of Development:

Durability and safety are two of our primary concerns. The fuel lines operated today in the DOD / Mar Ops lockers are ‘off the shelf’ products, lacking several if not all of the features described here. No one, until now, has addressed a major hazard potential with the way the fuel is sent from the “red can” or fuel bladder, to the outboard engine. The USMC identified this potential hazard and decided to do something about it.

We developed, at the request of the USMC, a fuel line that has the required safety guarantees, as well as lifecycle and life expectancy needed for use by the Marines in any theater of operations, under any circumstances.

A thicker fuel line:

Zodiac took the thickest fuel line available – a centimeter wall thickness = more than 3/16th (closer to 13/64th). A 300-pound individual will not collapse the fuel line, were he to accidentally step on it. The fuel line is fiber reinforced to avoid abnormal stretching.

Dripless, Marine Brass, Quick & Positive Disconnect Fuel Connector:

This new design is dripless, as the mechanism of the Aeroquip quick connect/disconnect system, does not permit the fittings to ‘splash’ a small quantity of fuel, which is characteristic to all standard fuel lines used in the industry today. Marine brass is generally accepted as the metal of choice in marine hardware, second only to CRESS, which is much more expensive, and in this application did not warrant the expense difference. Marine brass does not crack under

pressure or when submitted to military wear and tear. It will accept enormous temperature differences with no fissures, cracks or deterioration.

Quick & positive connect/disconnect means the connection, as well as disconnection, is the same as a 100-PSI high-pressure hose assembly, and it’s positive, so you will not be able to break or open the connection simply by hitting or inadvertently kicking it. This often happened with the old standard fuel lines.

Another improvement is the heavy duty heat shrink fuel line end, engine side. When lifting the tiller arm of an outboard engine, the fuel line can get caught in the lever hinge, which then acts as a pair of cutting pliers. To safeguard the fuel line against this problem, a heavy duty overlay of extra-thick, industrial-grade heat shrink hose is assembled on the engine side of the fuel line, and runs 18” toward the primer bulb.

Repair kit:

This repair kit’s function is to have the necessary spare parts for the fuel hose. Together, these new Zodiac parts form a complete system consisting of:

- A) – Fuel line with female quick release fitting
P/N N45451
- B) – Male quick release fitting assembled on fuel bladder, **P/N N45454**
- C) – Fuel line repair kit **P/N N45455**, not mandatory but a good idea to have.

See Us at These Shows

Expeditionary Warfare
Panama City, FL October 21-24

Workboat Show
New Orleans, LA December 4-6