

BUILDING THE PT BOATS AN ILLUSTRATED HISTORY OF U S NAVY TORPEDO BOAT CONSTRU

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Who built PT boats in WWII? Eventually Elco (Elco Motor Yachts) with a factory located in Bayonne, New Jersey and Higgins Industries in New Orleans, Louisiana were the dominant two builders with Elco producing the largest number. In the later years of the war the U.S. Navy standardized the design and construction of the PT boat.

Were PT boats effective in World War II? During World War II, PT boats engaged enemy warships, transports, tankers, barges, and sampans. Some were converted into gunboats which could be effective against enemy small craft, especially armored barges used by the Japanese for inter-island transport.

What were torpedo boats of World War II?

Did PT boats sink any ships in WW2? The torpedo was released on the later boats and allowed to roll off the rails into the water by gravity. If I can answer for Italy and Mediterranean, Italian pt boat ,MS 22 , sunk the British cruiser Manchester (11.000tons the greatest military ship sunk by pt boats in ww2) during the night 13/14 August 1942 .

How many men were on a WWII PT boat? Constructed of mahogany, plywood, and much glue, and lacking armor, each boat had a 12-to-17–man crew and three 12-cylinder, 1,350-horsepower Packard engines. Maximum speed was 40 knots. Highly maneuverable, a standard PT boat had a cruising range of about 500 miles and was armed with four .

What is the most famous PT boat? PT-109 was an 80-foot Elco PT boat (patrol torpedo boat) last commanded by Lieutenant (junior grade) John F. Kennedy, future United States president, in the Solomon Islands campaign of the Pacific theater during World War II.

What is the most heavily armed PT boat? Motor torpedo boat PT-617, also known as Dragon Lady, "is the sole surviving 80' Elco type PT boat on display and represents the United States's most heavily used, highly favored, and combat-tested PT boat type in World War II." PT-617 is a PT-103-class Elco motor torpedo boat of the same type as the famous PT-109 ...

Did PT boats have bathrooms? PT boats not only came without luxury accommodations, they also came without some things you might consider to be bare necessities, such as bathrooms.

Are there any PT boats still running? In March 2017, the iconic vessel became the world's only fully restored combat-veteran PT boat in operation, offering rides and tours on the waters of Lake Pontchartrain, where she was originally tested by Higgins Industries.

Did PT boats have sleeping quarters?

Did the Germans have PT boats? The German torpedo boats of World War II were armed principally, if not exclusively, with torpedoes and varied widely in size. They were not small schnellboote (known to the Allies as E-boats) but small seagoing vessels, the larger of which were comparable to destroyers.

What was wrong with US torpedoes in WWII? The magnetic exploder often caused premature detonation. The contact exploder often failed to detonate the warhead. It tended to run "circular", failing to straighten its run once set on its prescribed gyro-angle setting, and instead, to run in a large circle, thus returning to strike the firing ship.

Were PT boats effective in WWII? During World War II, PT boats engaged enemy warships, transports, tankers, barges, and sampans. As gunboats they could be effective against enemy small craft, especially armored barges used by the Japanese for inter-island transport.

Did PT boats have torpedoes? The PT boat stood for Patrol Torpedo. It was built with the concept of making a small, fast boat with a big but limited punch to be delivered with speed and stealth. Thus the fast wooden boats with big powerful Packard engines and four torpedo tubes and a 50 caliber machine gun as the armament.

Was the PT 73 a real PT boat? The real PT-73 was a 78-foot Higgins boat assigned to Motor Torpedo Boat Squadron 13, which saw service in the Aleutians and in the Southwest Pacific theater. On 15 January, 1945 it ran aground, and was destroyed to prevent it falling into enemy hands.

What happened to JFK's PT boat? Kennedy assumed command of an 80-foot, 40-ton Elco motor torpedo boat (MTB) at Tulagi in the Solomons. His command of PT-109 lasted less than four months, ending on the night of 1–2 August when the boat was cut in two by the Japanese destroyer Amagiri in Blackett Strait—the waterway that connects Vella and Kula gulfs.

Were PT boats gas or diesel? Wooden-hulled, 80 feet long with a 20-foot, 8-inch beam, the Elco PT boats had three 12-cylinder Packard gasoline engines generating a total of 4,500 horsepower for a designed speed of 41 knots.

Did PT boats sink any Japanese warships? The Japanese destroyer, IJN Terutsuki was the only actual “large” vessel sunk by US PT Boats. PT Boats were given credit for sinking other ships, even though the US Navy knew that the claims were exaggerated.

Did PT boats have toilets? PT boats not only came without luxury accommodations, they also came without some things you might consider to be bare necessities, such as bathrooms. I need to explain how the lack of a bathroom is handled on a PT boat in order to set the stage for the rest of this column.

Why did John F. Kennedy get a purple heart? Kennedy is the only U.S. president with a Purple Heart. Kennedy, who served in the Navy during World War II, injured his back when a Japanese destroyer collided with his patrol torpedo boat near the Solomon Islands.

What does the P in PT boat stand for? PT stands for “Patrol, Torpedo”. It is a small boat (relative to most Navy vessels), about 70–80 feet long, made of wood or fiberglass, and very fast. Its main armament is usually torpedoes, for use in destroying shipping or enemy Destroyers.

Did Huckins build PT boats? Huckins Yacht Corporation built PT boats for two squadrons during World War II. In 1940, three governing bodies – the Bureau of Ships, the Board of Inspection and Survey, and the Navy Personnel Command – had agreed that all PT boats developed up to that time were defective.

Are there any WWII PT boats left? Motor torpedo boat PT-617, also known as Dragon Lady, "is the sole surviving 80' Elco type PT boat on display and represents the United States's most heavily used, highly favored, and combat-tested PT boat type in World War II." PT-617 is a PT-103-class Elco motor torpedo boat of the same type as the famous PT-109 ...

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How many PT boats still exist? Today, just four combat-veteran PT boats still exist in the United States; of those, only PT-305 is fully restored and operational, complete with original-model engines.

What engine was used in PT boats? Propulsion was via a trio of Packard 4M-2500 and later 5M-2500 supercharged gasoline-fueled, liquid-cooled V-12 marine engines.

Did PT boats have sleeping quarters?

Did PT boats have a galley? Galley. -Here is where the "cook" heats up the cans. A PT galley is much more than that. It can and has turned out American, Italian, French, Chinese, and even Japanese cuisine.

What was the top speed of the PT boat in ww2? According to W.L.White's 1942 book “They Were Expendable,” the three Packard engines could drive a PT boat almost as fast as a car on the highway, which was then about 45 MPH. From other

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sources, I would say more like 35–40 knots, which is close.

Was a real PT boat used in McHale's navy? The vessel used for shots of the PT-73 under way was a 72-foot type II Vosper MTB (Motor Torpedo Boat), a British design built under license in the U.S. for export to Russia. The war ended in August 1945 before the boat, the real number of which was PT-694, could be sent to the Soviet Union.

What is the modern equivalent of a PT boat? Fast attack craft today. Boats similar to torpedo boats are still in use, but are armed with long-range anti-ship missiles that can be used at ranges between 30 and 70 km. This reduces the need for high-speed chases and gives them much more room to operate in while approaching their targets.

Did U.S. PT boats sink any Japanese ships? The Japanese destroyer, IJN Terutsuki was the only actual “large” vessel sunk by US PT Boats. PT Boats were given credit for sinking other ships, even though the US Navy knew that the claims were exaggerated.

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How big was the crew on a PT boat? Manly, Jr. The crew size of the typical PT boat in the Pacific during World War II was between 10 and 17 men depending on the size and configuration of the boat, whether it was Elco or Higgins boat. General MacArthur | PT Boats | United States | P T BOATS, INC.

What is the most heavily armed PT boat? PT-617 was very heavily armed for her size with four 22.5 in (570 mm) Mark 13 torpedoes, a 37 mm (1.5 in) and two 20 mm (0.79 in) guns in the bows, a Bofors 40 mm gun at the stern, and two twin .

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Has PT 109 been found? Now, Bob Ballard — the man who located the Titanic — has discovered the remains of PT 109, 1,200 feet down on the bottom of the Pacific. Leading an expedition funded by the National Geographic Society, Ballard, who grew up on Cape Cod where Kennedy often vacationed, found an old torpedo and its rusted launching tube.

What are the failures of plate heat exchangers? Leakage outside the unit, leakage within the unit, and pressure drop are the three most common problems with PHEs. The majority of these problems are simple to identify and resolve.

What is the turnover of Boldrocchi? The operating revenue of BOLDROCCHI INDIA PRIVATE LIMITED is in the range of INR 100 cr - 500 cr for the financial year ending on 31 March, 2022.

What are the faults of heat exchangers? A large majority of heat exchanger components fail by way of fatigue, creep, corrosion, oxidation, and hydrogen attack. Most common causes of failure include fouling, scaling, salt deposition, weld defects, and vibration. Effective recommendations to prevent such failures form an important part of this study.

How do heat exchangers fail? Corrosion plays a big part in tubular heat exchangers failing. Eventually, that moisture, condensation, chemicals, and gasses we discussed earlier can infiltrate the tubes and cause them to fail. And 90% of the time, those failures happen at the back of the tubes on the first bend.

How long do plate heat exchangers last? Heat exchangers are usually designed for a lifetime of 20 or 25 years. In fact, they are often in service for much longer.

How to solve heat exchanger problems? - Insufficient Flow Rate: Check if the flow rates of the hot and cold fluids are within design specifications. If not, adjust valves or pumps to maintain the correct flow rates. - Fouling: Inspect the heat exchanger surfaces for fouling, which can reduce heat transfer efficiency.

What is the turnover of Umedica? Company has achieved revenue of Rs 826 crore for fiscal 2023 and is estimated to achieve revenues of more than Rs. 820 crores in fiscal 2024.

What is the turnover of Fabnest? Fabnest's turnover touched Rs 1 crore in 2019. During the last fiscal year, they achieved a turnover of Rs 5 crore. Fabnest offers trendy collections for the modern Indian women and sells kurtas, jumpsuits, loungewear, top suits, skirts and other dresses.

What is the annual revenue of Kedrion? In the year 2022, Kedrion Group (without BPL Group) generated revenues of Euro 719.8 million, a 9% increase over 2021, while BPL Group generated revenues of Euro 458.2 million. The combined Group, that consolidates BPL in the last four months of the year, ended with revenues of Euro 886.7 million, up Euro 226.3 mil- ...

How do I know if my heat exchanger is bad?

What can damage a heat exchanger? Clogged filters reduce the air flow that result in development of cracks inside the system. Other reasons for reduced air flow are the dirty fan blades, dirty duct work, and obstructed air vents. All of these factors can cause major damage to the heat exchanger.

Can a heat exchanger be repaired? A heat exchanger is a crucial part of your furnace that heats indoor air. If your furnace has become inefficient in the way it heats your home, a cracked heat exchanger may be the culprit. Although a cracked heat exchanger is a serious issue, it's one that can be repaired.

What happens if a heat exchanger gets too hot? Without enough airflow to carry heat away, the heat exchanger overheats in excess of safe operating temperatures. Such overheating can cause premature metal fatigue and lead to stress cracks throughout the heat exchanger.

What happens if heat exchanger is faulty? Essentially, if you've found yourself with a faulty heat exchanger, you'll soon find yourself without hot water or heating. For that reason, it's important to take good care of a heat exchanger to ensure your boiler is running at peak efficiency, saving you money on costly repairs.

How long is the life span of a heat exchanger? A heat exchanger can, however, often last for 15 to 20 years or more with good care and normal operating circumstances.

Why are heat exchangers so expensive? Heat exchanger replacement costs vary based on factors such as furnace type, size, age and whether the furnace is under warranty. Secondary heat exchangers in high-efficiency furnaces and commercial furnaces tend to be at the higher end of the price spectrum due to their complexity and size.

How to clean heat exchanger plates? To clean your plate heat exchanger, first drain both sides and isolate it from your system fluid (generally done with isolation valves). Then, flush water through both sides until it runs clear. For best results, you should flush the fluids counter to the direction that they run in operation.

Why do heat exchangers crack? An overheating furnace causes nearly all premature heat exchanger cracks. When a furnace cannot get enough airflow, the heat exchanger overheats and suffers excess stress from expansion and contraction. Over time, the heat stress causes cracks near weak areas such as bends or welds.

How can I improve my heat exchanger plate? Decreased efficiency in heat exchangers is due to old gaskets that cause external leaks and deposits which lower heat transfer and clog the channels. Therefore, cleaning and reconditioning your heat exchanger is needed for better performance and keeping stand-by units on hand will help solve this problem quicker.

What is the best solution to clean a heat exchanger? RYDLYME is the perfect heat exchanger cleaning chemical to circulate and remove mineral deposits from heat exchanger tubes! Heat exchanger cleaning is made easy with RYDLYME Biodegradable Descaler. Simply circulate RYDLYME through the heat exchanger tubes removing mineral and scale build-up in a safe and timely manner.

How do I know if my heat exchanger is blocked? If you notice that your radiators are not heating up as expected. This could be a clear indication of a blocked heat exchanger. As debris accumulates within the system, it restricts the flow of hot water into the radiators. Preventing them from reaching their desired temperature.

What are the plate type heat exchanger failure modes? However, there are four types of heat exchanger failures that can occur, and can usually be prevented:

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mechanical, chemically induced corrosion, combination of mechanical and chemically induced corrosion, and scale, mud. and algae fouling.

What are the disadvantages of plate heat exchanger?

What are the factors that affect plate heat exchanger? The core component of a plate heat exchanger is a plate, and the plate can affect its operating power from various factors: temperature, plate area, plate thickness, plate corrugation, etc. Every small change in influencing factors will make a huge change in the power of the plate heat exchanger.

What causes a heat exchanger to go bad? An overheating furnace causes nearly all premature heat exchanger cracks. When a furnace cannot get enough airflow, the heat exchanger overheats and suffers excess stress from expansion and contraction. Over time, the heat stress causes cracks near weak areas such as bends or welds.

Are a 7.4 and a 454 the same engine? Chevy's 7.4L (454 ci) big-block engine was offered in many production vehicles from 1970 to 2001 and is still available today as a crate variant. Much of the engine's popularity stems from its impressive horsepower and torque output and solid reliability.

How many Litres is a 454 Chevy engine? 454. For 1970, the big-block was expanded again, to 454 cu in (7.4 L), with a bore x stroke of 4+1/4 in x 4 in (108.0 mm x 101.6 mm).

Is a Chevy 454 a big-block or small block? Chevrolet Performance's 454 HO crate engine is a Big-Block bargain – an affordable engine with performance specs that will make you think it's 1970 all over again.

What is the stock bore and stroke of a Chevy 454? On a 454ci engine with a stock, 4.00-inch stroke, a 0.100-inch overbore delivers a 476-inch displacement, while a 0.125-inch overbore will give you a 481-inch Rat. A popular combination is the safer 0.060-inch overbore with a longer, 4.250-inch stroke to make a 496-inch combination.

How many HP is a 454? 454ci/L29:Rated at 290 hp, The Vortec 7400 is the last-generation 454, with bore as small as 4.531-inch bore and stroke as before like the Gen V, 4.250-inch stroke.

all engines feature four-bolt mains.

Is the Chevy 454 a good engine? The 454 big block is a very good engine to go with if you are looking for something that can output a lot of power, and fit in a lot of classic cars and trucks. This is a classic engine from Chevrolet and stock it makes great power from the factory, if you upgrade it you can get even more out of it.

How much horsepower can a 454 hold? In general, a properly tuned production automotive engine produces 1.0-1.5 hp per cubic inch. Where a particular engine falls depends on many factors, so we'll use 1.3 hp per cubic inch as a middle figure. That means a 454 can support almost 600 hp ($454 \times 1.3 = 590.2$). Indeed, many do.

What makes a 454 an LS6? What set the LS6 apart from its more modest sibling? Compression on the engine ran 11.25:1, and its cast iron, rectangular port heads featured a 2.19 inch intake opening and a 1.88 inch exhaust opening. It also featured a solid lifter camshaft versus the hydraulic lifters on the LS5, with a .

What does 454 mean in Chevy? The Chevy 454 is a legendary engine known for its power and torque. It's part of the Chevrolet big-block engine family, which has a reputation for robustness and performance. Introduced in the 1970s, the 454 was widely used in trucks, muscle cars, and high-performance vehicles.

Is a 454 an LSx? This LSx 454 block is an upgraded, modern edition of the legendary 454 Big Block. Packed with a whopping 700 horsepower, this 21st century 454 is based on the LSx Bowtie Block, so it requires no extra room under the hood than a production LS.

Will a 454 fit in place of a 350? Best Answer. You will probably need to change the frame motor mounts as they are usually taller & further forward on a big block to allow clearances from the firewall & cross member. Other than that, it should go right in.

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How much HP can you get out of a 454? Assuming we are discussing a Chevy 454 cubic inch V8. Out of the factory with a few mild modifications, improved intake and exhaust, will net about 475HP, and if well maintained, using high quality oil, a new motor that is not pushed hard will run 150,000 miles or more.

The Yacoubian Building: A Literary Masterpiece by Alaa Al Aswany

1. What is the Yacoubian Building? The Yacoubian Building, written by Egyptian author Alaa Al Aswany, is a sprawling novel set in downtown Cairo. It follows the lives of the building's residents, a diverse group of characters from different socioeconomic and religious backgrounds.

2. Why is it a literary masterpiece? The Yacoubian Building is considered a masterpiece for its depth of characterization, intricate plot, and social commentary. Aswany delves into the personal lives and aspirations of each resident, exploring themes of corruption, class division, religious extremism, and the search for identity.

3. Who are the main characters? The novel features a vast cast of characters, including:

- Zaki Baybars, a retired doctor who grapples with his declining health and estranged family.
- Busayna, a beautiful young woman who becomes a sex worker out of desperation.
- Malak, a liberal journalist who fights against corruption and injustice.
- Hatim Rasheed, a devout Muslim who faces a crisis of faith.

4. What is the social commentary in the novel? Aswany uses the Yacoubian Building as a microcosm to explore the social and political issues facing Egypt and the Arab world. He criticizes corruption, poverty, religious intolerance, and the suppression of women's rights.

5. Why is the novel relevant today? The themes explored in The Yacoubian Building remain relevant today, particularly in the context of ongoing conflicts in the Middle East and the rise of extremism. The novel serves as a reminder of the complexities and contradictions within human societies and the importance of

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