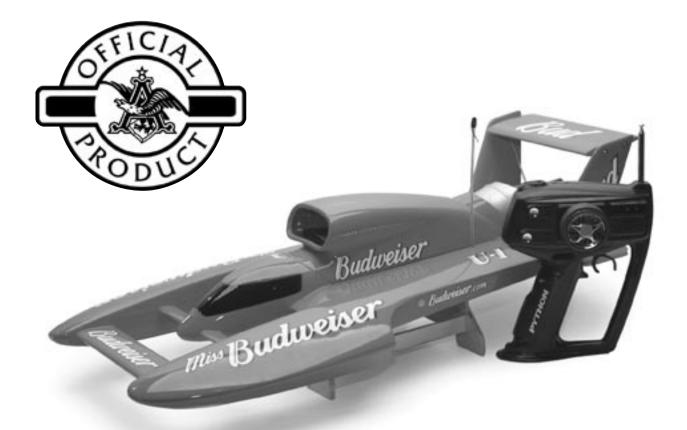
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Miss Budweiser I/I2-Scale RTR Nitro Unlimited Hydroplane Owner's Manual





Specifications

Overall Length	
-	
Engine	DYN .15 Marine w/Recoil
-	JR AM 75MHz Python

Introduction

Congratulations on the purchase of your Pro Boat[™] 1/12 Miss Budweiser Unlimited Hydroplane. You are just minutes from one of the most thrilling experiences that the radio control hobby has to offer.

The Pro Boat Miss Budweiser is a professionally built, ready-to-run 1/12-scale fiberglass model of one of the most competitive teams on the Unlimited Hydroplane tour. Powered by the potent Dynamite® .15S marine engine, you will be able to race across the water at scale speeds in excess of 300mph!

Read this owner's manual thoroughly. You also need to read the included Dynamite . 15S engine manual, along with the JR® Python radio system manual.

It is very important that you operate this boat responsibly. With proper care and maintenance, you will be able to enjoy your Miss Budweiser for many years to come.

Carefully unpack Miss Budweiser and examine the boat and its contents. The contents contain the Miss Budweiser RTR with radio installed, a boat stand, and the JR Python radio transmitter If you are missing any of these items or notice any damage, immediately contact the place of purchase.

Warning

Before operating your model, make sure your frequency is clear. If someone else is operating on the same frequency, both models could go out of control, possibly causing damage to the models, as well as to others.

Be certain to check all of the hardware, exhaust system, and propeller, making sure that all are secure before and after each run. **Always keep clear of the propeller when the engine is running!**

When you first begin to run your Miss Budweiser, place in water with engine running at approximately 1/4 throttle. Slowly increase throttle until boat accelerates onto plane. Gradually increase throttle to no more than 1/2 until you become more familiar with the boat. Remember, this boat makes right turns only!

When operating this model, stay clear of people, full-sized boats, stationary objects, and wildlife. Also, watch out for fishing lines that could get tangled in the propeller. It is preferable to operate the Pro Boat[™] Miss Budweiser in low wake, low wind conditions and in areas free of people, objects, and wildlife. We also suggest that you do not run the Miss Budweiser in salt water.

If at any time while operating your Miss Budweiser you sense any abnormal function, end your operation immediately. Do not operate your Miss Budweiser again until you are certain the problem has been corrected.

Because this is a scale high-performance model, the Miss Budweiser has been set up to turn to the right only! Do not attempt left turns or you will flip the boat. If you need to turn left, reduce throttle and turn in a very large diameter oval.

Service Center Information

If you have any questions regarding the Pro Boat Miss Budweiser, please contact:

Horizon Service Center 4105 Fieldstone Rd. Champaign, IL 61822 1-877-504-0233

Table of Contents

	_
Introduction 🛛	2
Warning	2
Table of Contents	3
Additional Required Items	3
Suggested Field Equipment and Supplies	3
Warranty Information	4
Contents	4
Section 1: Receiver and Transmitter Battery Installation	5
Section 2:Turn Fin	
Section 3: Filling the Fuel Tank	7
Section 4: Range Checking the JR Python Radio System	7
Section 5: The Dynamite . I 5S Marine Engine	B
Section 6: Engine Troubleshooting Guide I (D
Section 7: MaintainanceI	I
Replacement PartsI4	4

Additional Required Items

Although the Miss Budweiser comes fully assembled and ready for action, you will need a few tools to get your boat ready to run:

Blue Thunder 20% Fuel (quart) (DYN2320)Glow Plug Wrench (DYN2510)500cc Fuel Bottle (DYN2003) orNi-Cd Glow Driver (DYN1925)Fast Tap Quart Bottle Spout (DYN2009)Clear 3M tape to seal radio box12 "AA" alkaline batteries (8 for the transmitter and 4 for the receiver)

Suggested Field Equipment and Supplies

In addition to the items needed to run the Miss Budweiser, we recommend that you carry the following in your field box:

Engine Tuning Screwdriver (DYN2775) Hex driver/Allen wrench (1.5mm and 2.5mm) Clean towels and rags Adjustable wrench (small) Extra propellers Replacement Glow Plugs (DYN2508 or DYN2500) Cable grease to lubricate drive shaft I2 – "AA" alkaline batteries I0mm wrench

Warranty Information

Pro Boat[™] guarantees this kit to be free from defects in both material and workmanship at the date of purchase. This warranty does not cover any parts damaged by use or modification. In no case shall Horizon Hobby's liability exceed the original cost of the purchased kit. Further, Horizon Hobby reserves the right to change or modify this warranty without notice.

In that Horizon Hobby has no control over the final assembly, or material used for the final assembly, no liability shall be assumed or accepted for any damage of the final user-assembled product. By the act of using the product, the user accepts all resulting liability.

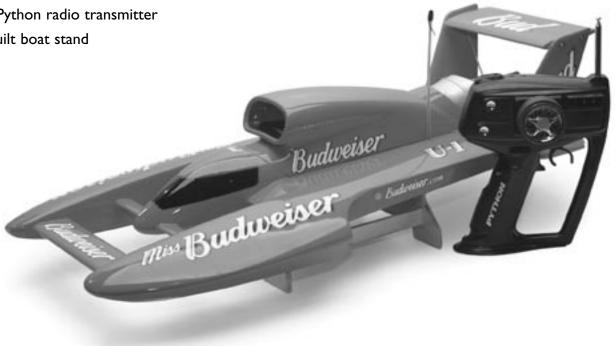
All warranty questions should be directed to Horizon Hobby, Inc. Please do not contact your local hobby shop regarding warranty issues, even if purchased from there. This will enable Horizon to better answer your questions and provide service if assistance is needed.

If not prepared to accept the liability associated with the use of this product, the buyer is advised to return this kit immediately, in new and unused condition, to the place of purchase.

> Horizon Hobby 4105 Fieldstone Road Champaign, Illinois 61822 (877) 504-0233 www.horizonhobby.com

Contents

- Assembled Miss Budweiser 1/12-Scale RTR
- |R® Python radio transmitter
- Prebuilt boat stand

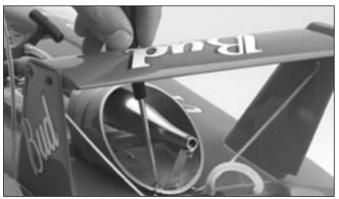


Section 1: Receiver and Transmitter Battery Installation

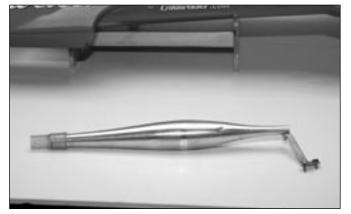
Receiver Batteries



- I. Remove the two knurled aluminum nuts that secure the cockpit as shown. Pull the cockpit off the boat.
- 2. Carefully note how the exhaust system is assembled.



• 3. Use a 2.5mm hex wrench to remove the tuned pipe mount as shown.

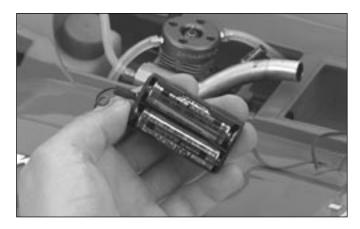


• 4. Carefully remove the tuned pipe by sliding the silicone coupler apart from the exhaust header



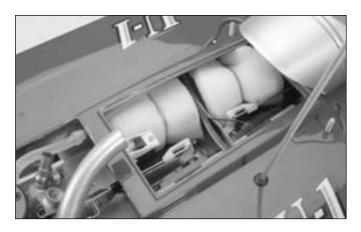
• 5. Remove the clear lid that covers the radio box.

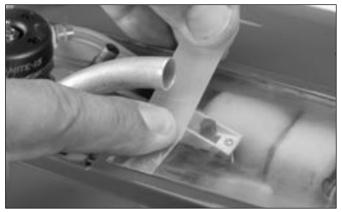




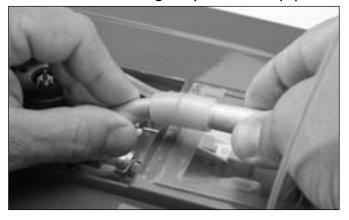
 ○ 6. Remove the dry cell battery holder from the radio box and unwrap the foam around the dry cell battery holder. Install 4 "AA" alkaline batteries into it as shown. Note the proper polarity. Wrap the battery box in foam.

Section 1: Receiver and Transmitter Battery Installation (cont.)

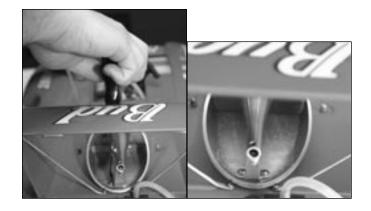




• 7. Re-install the battery holder back into the radio box and properly seal the radio box with clear tape. Failure to properly seal the radio box could result in damage to your radio equipment.



• 8. Re-attach the tuned pipe and coupler to the exhaust manifold.



O 9. Re-install the tuned pipe mount.

Transmitter Batteries

 ${\bf O}\,$ I. Remove the transmitter from the box





- O 2. Remove the battery cover on the bottom of the transmitter.
- O 3. Note the proper polarity and insert 8 "AA" batteries into the transmitter.
- 4. Turn on the radio to ensure the batteries have been installed correctly.

 ${f O}$ 5. Turn the radio off.

Section 2: Turn Fin

The Miss Budweiser comes with the turn fin installed on the right sponson. You will want you run the Miss Budweiser in an oval and in an area that will allow you to make right turns (clockwise). Do not attempt to make tight left hand turns (counterclockwise), or you could easily flip the boat. If you need to make a left turn, do so in a large diameter turn at slow speeds.

Section 3: Filling the Fuel Tank

We recommend that you use Blue Thunder[™] 20% fuel. For maximum performance, we recommend Blue Thunder Race Formula. Blue Thunder fuels are specifically formulated for excellent power and engine protection.

Locate the fuel tank inside the cockpit area and unscrew the lid. Use either the DYN2009 Fast TapTM quart bottle spout that has been attached to the quart of fuel or the DYN2003 Fuel Bottle to fill the

fuel tank with your selection of Blue Thunder fuel. After you have filled the fuel tank and re-installed the lid, wipe away any excess fuel that may have been spilled inside the hull or elsewhere on the boat. Immediately seal the fuel container by putting the lid back on after refueling in order to protect the fuel from moisture.

Section 4: Range Checking the JR Python Radio System

Before the first run of the Miss Budweiser, range check the radio for proper operation and to ensure proper control movement of the rudder and throttle. Also ensure that the antenna on the boat is extended properly and that all batteries are in working condition.

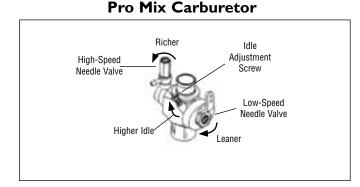
- I. With the radio system turned on (transmitter and receiver) and the transmitter antenna down (engine off), walk off 40 to 50 paces from the Miss Budweiser.
- 2. Have an assistant remain with the boat to check for proper control movement of the rudder from your transmitter input.
- 3. If everything appears to be operating correctly, raise the antenna and start the engine (refer to Section 5 of this manual and to the separate DYN .15 engine manual). Place the boat in the water and run it (at about 1/3 throttle) close to the shore- line. If the radio system is operating properly, you can begin to run the boat faster and further away from the shoreline.

Note: It is a good idea to range check prior to operating your boat after any repair, installation of new batteries, or at the beginning of each boating season.

Section 5: The Dynamite .15S Marine Engine

Water-Cooled Engine

Because the Dynamite® 15S engine is water-cooled and not aircooled, make sure that you do not run the engine for an extended amount of time outside of the water. Continuously monitor the water outlet when the boat is running to make sure that the water is reaching the engine head. If the water does not reach the head to cool it, the engine will overheat and fail. This could cause permanent damage to the engine.



The Dynamite .15S engine comes equipped with the Dynamite Pro Mix Carburetor. Each Pro Mix Carburetor is pre-adjusted at the factory. This setting should be approximately $3\frac{1}{2}$ turns open for the high-speed and $2\frac{1}{2}$ turns open for the low-speed needle. This should give you a slightly "rich" mixture of fuel to the engine. This setting is the safest way to break in your engine. For further details regarding the Pro Mix Carburetor, please consult Section 2 of the Dynamite .15S instruction manual. Note: When using the pull-starter, never pull the rope out to its full length as doing so can cause damage and the rope may not retract. Quick, short pulls of the starter rope are the best technique to use with the pull-starter.

If the pull-starter becomes very difficult to pull, the engine may be hydro-locked. Excessive fuel between the head and piston will not let the piston travel to TDC (Top Dead Center). Loosen the glow plug one turn and try to start the engine. If the engine starts, re-tighten the glow plug with the attached glow driver while the engine is running. If you are still unable to get your engine to start, refer to the Troubleshooting Guide (page 8) in this manual.

You may have to "blip" the throttle on the transmitter (applying throttle on/off) while trying to start the engine. New engines are harder to start because of the tight piston/sleeve fit.

Never start an engine at 1/2 to full throttle, as this will cause over-revving which may cause premature wear and breakage.

During the first tank of fuel, advance the idle via the idle adjustment screw more than normal to prevent stalling at idle due to the rich fuel mixture for break-in.

Section 5: The Dynamite .15S Marine Engine (cont.)

Breaking in Your Engine

The first start-up of the engine is the most critical moment of the engine's life, dictating how the engine will perform from that time forward. Turn on your radio system and attach a fully charged glow igniter (DYN1925) to the glow plug. Start the engine with therecoil (pull-start) on the engine.

During break-in, the low-speed needle should be slightly rich and the high speed needle should be very rich. After a few tanks of fuel, begin to lean the engine out. Adjust the high-speed needle 1/16 of a turn at a time. It generally takes about five to six tanks of fuel before you want to lean out the engine until it supplies good power. **Do not skip this process of break-in. Failure to follow this procedure could damage your new engine.** For further details on breaking in your engine, please see Section 3 of the Dynamite[®] .15S instruction manual.

Note: It is common for an ABC engine to go through a glow plug or two during break-in.

Needle Settings

When adjusting the settings, always adjust the needles in small increments, about 1/16 of a full turn at a time. Do not set the engine too lean, as it shortens the reliability of the engine. Please refer to Section 4 of the Dynamite .15S instruction manual to learn more about setting the needle valves.

After you have attained the correct needle settings, the engine will have a strong sounding, high-pitched whine at full speed, and a thin trail of blue/white smoke will come from the exhaust.

Idle Adjustment

The last setting is to set the idle screw. To obtain a higher idle, turn the idle screw clockwise; for lower idle, turn the idle screw counterclockwise.

Replacement Parts

There is a complete parts listing in the Dynamite .15S instruction manual in the event that you need to replace an engine part. Exploded views will help you to select the correct parts and make minor repairs.

Section 6: Engine Troubleshooting Guide

Problem	Possible Solution
Engine will not start	Check needles and make changes back to factory settings if necessary
	Improper needle setting
	Out of fuel
	Improper fuel
	Improper glow plug
	Glow igniter not charged
	Dead glow plug
	Flooded engine
Engine starts, then dies	Pressure line blocked or unhooked
	Reset needles to baseline setting
	Improper needle settings
Engine starts and runs for	Bad glow plug
several minutes, then dies	Idle speed set too low
	Improper needle settings
	Overheated engine
	Glow plug failed due to lean engine setting

The Pro Boat[™] Miss Budweiser should provide many hours of exciting high-speed racing fun with just minor maintenance. Preventative maintenance is very important. Taking the time to ensure that all the set screws and bolts are tight before each operation of the boat will prevent many problems.

Before operating Miss Budweiser

Check that all screws and hardware are securely in place. This is very important, as the manifold screws will occasionally vibrate loose during the first initial runs.

Check the propeller for damage in the form of chipping or cracking. If you find any damage, replace the propeller, as the damage will effect the performance of the boat and could also cause safety concerns. When refueling, always wipe away any excess fuel that may have spilled into or on the boat.

After operating the Miss Budweiser

Wipe off any exhaust residue from the boat. If you have operated Miss Budweiser in salt water, it is suggested that you thoroughly rinse the deck, hull, and all the metal hardware with fresh water, then dry them with a clean rag or towel. This will help to prevent rust from occurring.

Ensure that the radio box and equipment inside is dry.

Section 7: Maintainance

Lubrication

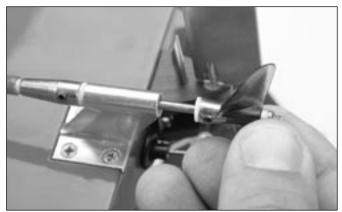
It is important to lubricate the flex shaft of the Miss Budweiser with cable grease after every two hours of operation. Do not forget to do this. You can purchase this grease at your local hobby store. To lubricate the drive shaft, follow these simple instructions.





• I. Carefully note how the drive shaft and prop are presently installed. This is important so that when you have finished lubricating the drive shaft, you can correctly re-install the drive shaft.



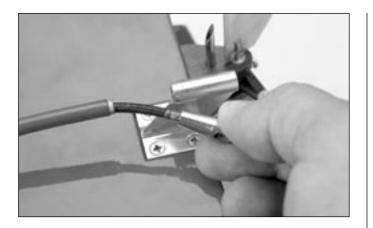


• 2. Loosen the ferrule screw that holds the propeller shaft. Remove the propeller and shaft from the aluminum strut.



• 3. Use a 10mm wrench to hold the collet and another 10mm wrench to loosen the collet nut.

Section 7: Maintainance (cont.)



• 4. Carefully pull the ferrule away from the stuffing tube. You will need to pull at an angle to clear the aluminum strut.



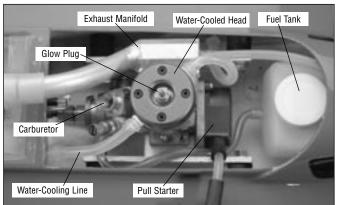


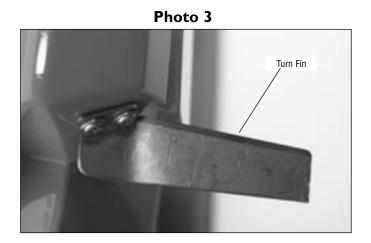
• 5. Liberally lubricate the entire length of the flex shaft with cable grease as shown.

• Carefully re-install the flex shaft and nylon bushing, making certain that you correctly tighten the collet nut. Next, re-install the drive shaft and propeller and tighten set screws on the flats of the drive shaft.

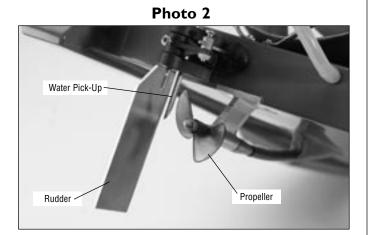
Appendix

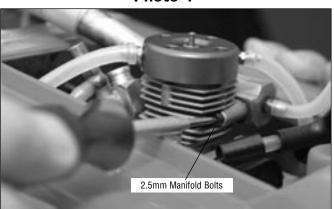
Photo I











In the event that you need to purchase replacement parts for your engine or the Miss Budweiser, please see your local hobby store.

You can also purchase them from Horizon Hobby by calling **1-800-338-4639** or shop online @ www.horizonhobby.com

Part #	Description
PRB2203	. Exhaust Cover: 1/12 Miss Bud
PRB2204	. Wing: 1/12 Miss Bud
PRB2205	. Wing Struts: 1/12 Miss Bud
PRB2206	. Decal: 1/12 Miss Bud
PRB2207	. Fuel Tank: 1/12 Miss Bud
PRB2208	. Manifold: 1/12 Miss Bud
PRB2209	. Tuned Pipe: 1/12 Miss Bud
PRB2210	. Pressure Fitting: 1/12 Miss Bud
PRB2211	. Coupler Tubing: 1/12 Miss Bud
PRB2212	. Tuned Pipe Mount : 1/12 Miss Bud
PRB2213	. Propeller: 1/12 Miss Bud
PRB2215	
PRB2217	. Prop Washer: 1/12 Miss Bud
PRB2218	. Prop Nut: 1/12 Miss Bud
PRB2219	. Nylon Washer: 1/12 Miss Bud
PRB2220	. Rudder: I/I2 Miss Bud
PRB2221	. Rudder Bracket: 1/12 Miss Bud
PRB2222	. Turn Fin: 1/12 Miss Bud
PRB2223	
PRB2224	. Silicone Tubing: 1/12 Miss Bud
PRB2225	. Battery Box/Switch: 1/12 Miss Bud
PRB2226	
PRB2228	. Rubber Boot: 1/12 Miss Bud
PRB2229	. Cockpit Securing Nuts: 1/12 Miss Bud
PRB2231	
PRB2232	. Boat Stand: I/I2 Miss Bud
PRB2235	
PRB2236	
PRB2237	. Instructions New: 1/12 Miss Bud
PRB2238	. Cockpit New: 1/12 Miss Bud
PRB2339	•
PRB2506	. Flexshaft w/ Ferrule: 1/12 Miss Bud
PRB2507	. Drivedog /Prop Shaft: 1/12 Miss Bud
PRB2508	
PRB2509	
PRB2511	
PRB2512	
PRB2513	. Flex Shaft Liner: 1/12 Miss Bud

· 14

Notes





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