

NATS TO YOU

Hello sports fans! I want to thank all of those people who have sent me suggestions and advice as to what they would like to see done at the 1986 Championship battle. I have heard many good ideas, and some not so good, but keep them coming. I want this event to cater the the desires of the battlers as much as possible.

I will probably be running a non-binding poll in the February issue of Hullbusters to resolve some of the areas about the Championship battle which are still unclear as to how best to organise things. It will save a lot of time at the begining of the battling to resolve these questions well in advance. I also hope to publish the guidelines for the convoy battle in that same issue. I have been devoting most of my efforts to this one event, with the help of many other interested parties. Hopefully the whole mess will be exciting and enjoyable to participate in.

In rereading our rules, I have noticed we really have no mechanism to deal with that disagreeable issue of cheating. We do have a way to handle inadvertant violations of the rules with the so called "Certificates of Non-Compliance". However, there is no way to deal with people who specifically work to circumvent a rule or rules for some brief combat advantage. If you wonder why we even need worry about this issue,

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INTRODUCTION

A Howdy there Friends. I want MONEY! Your subscription is up and if your boilers need heating up this winter I'm sure some Hull Busters would do nicely. Well, Battling season is over and it's time to hibernate out in the garage! I've decided to be a better family man this year so I will talk a few tapes to my wife It's important to take care of her because she selects my christmas gifts. We R/C Admirals need special types of gifts. You wives may wan to get your admiral a special something but don't know exactly what to select. As a paid-u subscriber I extend my services to the wives of R/C combat. Just drop me a line and I will respond with a delightful gift idea for your husband. Maybe a dremel tool or grinder or exacto-knive kit. And if you're married to an Allie maybe a handsome sweater or monogrammed bowling ball bag...Ladies; make that check out to "Fluegel", it's only \$6.001

Well, now that the R/C combat calendar has

Well, now that the R/C combat calendar has turned from combat to construction I hope to be compiling some construction columns but cannot if contributing authors don't cough them

up.....stop that Fluegel.

I feel certain that you're now properly prepared to read Hull Busters...good luck & good grief.

by Fluegel

it is due to the fact that some individuals did cheat during the last Nationals! As an example of cheating, it would be very easy to build a speed control with an inline resistor to meet the legal speed, but arrange to bypass this resistor by radio or other means for an increase in speed during battle. Another way to cheat would be to make two sets of rudders, one of legal area and the other quite larger which are switched out quickly for testing or combat. Still a third way to cheat would be loading more than 50 BBs in your guns. As you can see, there are many ways to cheat given the cleverness of the amoral person involved.

Tp punish anyone I or anyone else catches cheating (I will have the final say), The following penalties will be in force: For the first offense, the captain will have the choice of a 1000 point penalty or sitting out 1 fleet battle. The second offense will net 2000 points or sitting out two battles. The third offense will net 4000 points ord four battles. And so on in an algebraic progression. there are not enough fleet battles remaining in the week to allow that option to be taken, the point penalty will be applied exclusively. We may also want to consider placing anyone who cheats on probation for a year preventing them from competing in any club sanctioned events. Hopefully the individuals who cheated last year will compete fairly this year and no new people will join their ranks, as the whole subject is disagreeable to me!

Remeber, the event is July14-18, 1986.

James C Forts

As your friendly Clippard dealer, it has been my pleasure to serve the Allied members of our club (the Axis members I serve only out of a sense of British fair play). During the past 15 months, 68 orders have been filled from the famous Lombard address. I haven't kept accurate books (English gentlemen don't concern themselves with such mundane matters), but my solicitor informs me that I am running a slightly negative balance due mainly to my customer's failure to include postage after an order has been delivered. The overwhelming majority of the offenders are from the Berlin-Rome-Tokyo axis, and its a shame that all must suffer for the sins of the few.

Also the absence of my dashing, brave, and handsome son (intrepid captain of the famous RODNEY) from my estate has created problems in the area of material pickup. John (The Duke of Lombard) is presently pursuing an advanced degree at Oxford and is no longer readily available for weekly runs to the Clippard dealer to fill orders. This forces his Lordship (me) to drive to the dealer; since they are only open from 8:30 AM to 5:00 PM, Monday through Friday, I must make special trips to procure the Clippard parts to fill your orders. This drill cuts into my grouse hunting time, and is deeply resented by me.

In addition, I have purchased mailing boxes and envelopes to use to insure that the merchandise I send to the stalwart band arrives in 100% A1 condition. All of these "extras" have cut into my funds, and have caused the entire enterprise

to become a slight cash drain on my limited estate. (Even we titled gentry do not have bottomless pockets.) The care and feeding of the RODNEY, SWIFTSURE, JAVELIN, ARETHUSA and SURCOUF do, after all, require a great percentage of my annual incomes.

Because of all the above reasons, I find it necessary to ask you to include a

\$2.00 per order service charge

when you order Clippard parts and 4.8v Dumas motors from me. This will offset my increased costs and enable me to serve you with the same cheerful attitude that I have become famous for. THIS POLICY WILL 60 INTO EFFECT AS SOON AS YOU READ THIS ARTICLE. The order turnaround time you experience will probably increase in the future due to John's absence. (Slower service for more money is what we English are famous for -- Ms. Thatcher will be critical of my actions, but then she's not in my shoes.)

Keep a stiff upper lip about the situation. The "thin red line" will hold. You Huns, Nips, Frogs and sons of B(enito) will just have to cough up the extra cash to stay in the game. Sadly, this policy will even be extended to my British brothers and the noble Yanks (although, with their unlimited treasury, this will not bother them — they usually include a tip already).

Tom Jass 050, OBE, VC, KBE, etc.

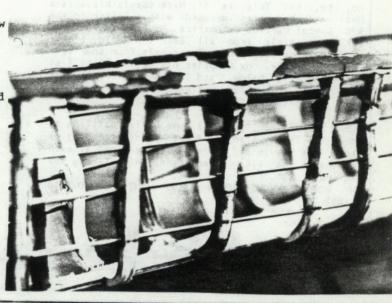
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HOW TO AMOUR YOUR SHIP AGAINST RAMS By Fluegel

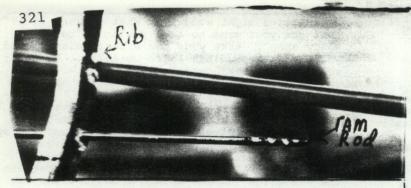
It's a little fuzzy to me but somehow on Tuesday night during Nationals I came up with a brilliant idea! Yes Another One! Just imagine this, you're steaming along on another mission of mercy and out of the blue huge Wisconsins and Alabamas come ramming down on your soft balsa waterline. What's an Axis to do?....run steel bands around your ship!, I told you it was brilliant. Now what obscure loop-hole in the rules can we "ram" this idea through. Well, if the armour had a gap of 1/8" between it and the inside of the hull skin then it would be legal and if the armour was piano-wire then it would work!

The way I did this was by first ripping the hull skin off the Lutzow....cry, sniff, blow nose. Next I drilled a hole in the #1 rib at the point I wanted to run the piano-wire. Up to this point any mere human can get the job done. This is where being an Axis comes in handy. Make the piano wire into a drill bit! That's right, cut a piece in half (18 inches long) and make the first 1/2 " of it look like a drill bit. It doesn't need to be perfect to work surprisingly well. Chuck up your new bit and slide it into the hole you pre-drilled into the ‡1 rib and start drilling from rib to rib to rib. After you have drilled 18" of ribs chuck up a 36" piano-wire bit and feed it through the holes you just drilled. When the chuck runs into #1 rib unchuck it and start over on the other side, very neat, very simple.

Allies might wonder... "What's piano wire?" Well get your mama to take you to a "better hobby shop", take your mom's best scissors and your dad's best dikes (wire-cutters). Look for some 32" red cardboard tubes. Shiny wire that ruins your parents scissors and dikes are in these tubes. Buy the 20 cent size. This wire is between 1/16" & 1/8". The way to cut this wire is with a dremel tool and a metal cutting disk. Dikes work but I get cramps in my neck from gritting my teeth. I ran these armour-belts 0.6" below the bottom of the waterline, 0.1" above the waterline and between the waterline and the deck. I believe the one below the water line is of significant value! The others were installed because I enjoy revelling in my own brilliance.



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	DRESDEN	2	ñ	86	4	3,700	4,300	3,226	26	3.9	10	4.1	25.00	1908-09	9	26
	KOLBERG	-	4	428	46	4,400	4,900	3.676	92	3.5	12	4.1	25.00	1909-11	9	.7
	BRESLAU	4	4	455	44	4,600	5,600	4.201	01	2	12	4.1	28.00	1912	9	7
	KARL SRUHE	2	4	446	45	4,900	6,200	4.651	51	2.4	12	4.1	28.00	1914	9	
	REGENSBURG	2	46	468	45	4.900	6.400		01	2.4		4.1	27.00	1014	*	
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	NURNBERG	-	595	. 5	28	2,000	8,500	6.377	77	7 7	. 0	5.9	32.00	1935	0 10	24
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	ORION	•	281		22,500	25,900	19.430	12.0	9		21.00	1912	· m	3 %		
	KING GEORGE		298		23,000	25,700	19.280	12.0	9		21.00	1912-13	6	22		
	EKIN		990		23,800	25,300	18.980	12.0	2		21.00	1914	69	82		4
	TOWN DIEK		672		27,500	30,300	22.731	9.6	=	12 2	22.00	1914	2	82		
	D ELIZABETU		679		000,62	009'62	22.206	12.0	9		21.00	1914	2	×		
	REVENSE	- 10	624	600	27.500	35,400	285.17	13.0		2 4	25.00	1914-16	~ .	75		
		-		1								1011	,	37		
PATTI COUTS	NELSON	2	710	901	33,900	41,300	30.983	14.0	6		3.00	1927	-	22		
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	OFFICIENCE.	-	83	- 1	44,500	51,400	38.560	14.0	00		00.0	1946	-	24		
	INJINCIBLE	m	292	79	17,256	26,100	15.079	6.9	8	12 2	25.00	1906-08	6	34		
	INDEFATIGABL	m	280		18,800	22,100	16.579	6.0	8		25.00	1911-13	0	92		
Politice Indiana	LIGH.	m·	300			20,700	22.281	9.0	8		28.00	1912-13	6	24		
N TECHNOTOCK	FRIBAGENIE		707		996, 97	35,700	26.782	9.6				1914	m	24		
	FUPTOUS	, -	787			22 000	17.029	3.0				1915-16	m	24		
	RENDAN		707			20 100	36 503	3.0	7		00.0	1917	m	24		
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A CHRISTMAS WISH LIST

ho, ho! This is St. Nick (Santa Klaus is a Ho, Nazi and has been deposed) with a letter to the R/C Combat Warclub of America. As I looked over my Christmas lists from all over the world, I have noticed some very unusual requests from some very unusual people. My computer has isolated the list of screwballs below, and I'll share their wishes with you. I've also included my answer to each list in capital letters after each wish.

POINDEXTER "I'd like some Allied battlers to JEFF to Texas. Stan and I need reenforcements; we feel like Travis and Crockett at the Alamo at each regional. Its like being Danny White facing the Bear pass rush." WHY WOULD ANYONE (EVEN AXIS) WANT TO MOVE TO TEXAS?



FLUEGEL "1'd like three authorative sources that show the BISMARCK to be a 35 knot ship. Also pump" for the Dallas Cowboys offensive - the way the Bears riddled them, its doubtful if the franchise can stay afloat."

BISMARCK IS A 29 KNOT TURKEY AND THE COWBOYS LOSERS -- THEY'RE NO LONGER AMERICA'S TEAM, THEY'RE THE AXIS TEAM.

CARL CAMURATI "I'd like a new parrot -- one that "Rule Britannia". We need some class out sings here in 'Jersey. Maybe then those English captains would respect me. "

THE PARROT TO DO AN IMITATION OF GEORGE C. SCOTT IMITATING "IL DULCE". THEY'LL LOVE IT IN THE

GARDEN STATE.

STEVE MILHOLLAND "I'd like a 8 foot by 4 foot reflecting pond in my front yard. Then I could retire the ALABAMA and the Von Fluegel trophy in real style. It would become the prime tourist attraction in Springfield .. just like in Mobile." GRANTED ... SPRINGFIELD WILL BE FOREVER GRATEFUL. WOULD YOU ALSO LIKE TWO PINK PLASTIC FLAMINGOS TO SET OFF THE WHOLE DEAL?

MARTIN SCHNEIDER "I'd like a one piece mold for the superstructure of the TIRPITZ -- that way I could cast it out of epoxy and never have to it again. I'll bet I could win best of repair scale." WIN BEST OF SCALE WHEN CAMURATI WINS YOU'LL RESPECT FROM THE ALLIES.

TERRY DARBY "I'd like to go through a week at Nationals without being ram sunk. Maybe if the ALABAMA is enshrined in a reflecting pool I'll be safe.

STEVE HAS REQUESTED THAT THE PORTLAND BE IMPALED PERMANENTLY ON THE BOW OF THE ALABAMA AND PLACED IN THE REFLECTING POOL. SORRY, SMOKEY ...

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CLASS	NAME	SHIPS	(FEET)	(FEET)	(TONS)	(TONS)	(LBS)	(INCHES	. 0		(KNOTS)			100 F
	DIAMOND	2	374	34	3,000	3,200	2.401	2.0	12		22.50	1905	9	82
	ADJENTURE	. 9	395	88	2,600	3,200	2.401	2.0	•	-	25.00	1905	9	26
	BOADICEA	2	405	-	3,300	3,800	2.851	1.0	9	-		11-606	9	26
	BLONDE	2	405	-	3,300	3,900	2.926	1.0	9	-		1609-11	9	26
	ACTIVE	8	405	41	3,400	4,000	3.001	1.0	10	-		1910-13	9	56
LIGHT CRITISER	CENTAUR	2	446	42	4,100	4,900	3.676	3.0	2	9	29.00	1916	9	26
LESS THAN 9000	CALEDON		450	43	4,200	2,000	3.751	3.0	2	9		1917	9	56
REFORE 1922	CARDIFF	2	450	2	4,200	2,000	3.751	3.0	10	9	7	1917-18	9	26
	CAIRO	50	452	4	5,000	5,300	3.976	3.0	5	9		1918-22	9	26
	DERL 1	00	471	94	4.800	5,900	4.426	3.0	9	9		1918-22	9	26
	CHATHAM	9	458	40	5,400	000'9	4.501	3.0	00	9	25.50 1	1912-16	9	26
	CASTOR	*	446	42	3,700	5,000	3.751	3.0	2	9		1915-16	9	56
	CARO, INE	9	446	42	3,700	4,700	3.526	3.0	2	9		1914-15	9	58
	CALLIOPE	2	446	42	4,200	4,700	3.526	4.0	2	9	29.00	1915	9	26
	ARETHUSA	00	436	36	4,000	4,400	3.301	3.0	2	9		1914-15	9	56
	BRISTOL	5	453	47	4,200	5,300	3.976	2.0	2	9	25.00	1910	9	26
	HENNORTH		453	46	5,200	2,800	4.351	2.0	00	9		1911-12	9	56
	BNEBA: D	2	570	55	7.600	9,500	7.127	3.0	1		33.00	1926	2	24
	I EANDER		555	3	7.000	9.800	7.352	3.5	00	9		1933-35	2	24
TRAT CRITISER	PERTH	o en	562	212	7.000	9.400	7.052	3.5	00	9	_	1935-36	2	24
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AFTER 1922		2	512	15	0000'9	7,600	5.701	3.0	00	5	32.00 1	1943-44	10	24
	0100	11	512	51	5,600	7,500	5.626	3.0	10	2		1940-42	2	24
	FIJI	=	226	62	8,600	11,100	8.327	3.5	12	9		1942-44	2	24
	HALKINS	2	909	65	9.800	12,200	9.152	3.0	7 7	ĸ:	36.00	1925	-	24
	KBN	1	633	89	10,000	14,900	11.178	4.0	80	8	31.50	1928		24
	NGNOT		633	99	10.000	14,900	11.178	4.0	00	00	32.30	1929	-	24
	NOPFOLK	2	635	98	10,000	14,900	11.178	4.0	90	00	32.30	1930	-	24
MEANY FRITSED	YURY	-	275	2	8.200	10,400	7.802	4.0	9	00	32.30	1930	-	24
AFTER 1922	EXETER		575	28	8.400	11,000	8.252	4.0	9	00	32.00	1831	-	74
	SOUTHWHATON	20	292	62	9,100	12,200	9.152	4.5	12	9	32.00	1937	-	7
	SE DUCESTER	8	592		9,400	12,300	9.227	4.5	112	9		1938-39	-	2
	EDINBJRGH	2	614		10,000	14,900	11.178	4.5	12	9	32.50	1939	-	7
	SWITFSURE	2	556		0000'6	11,500	8.627	3.5	0	9	31.50	1944	-	24
			733	77	0 000	UU7 11	8 707	2 5	•	4	21 50	1945	-	24

RULES THE 1986 CONSTRUCTION

the following with CONSTRUCTION & CLASS RULES Construction Specifications Ships must comp Warship Combat. in R/C

11

comply

participate

by 3/16"brass striting the brass rod about 1/8"into the brass tube (do not sora) any lubrican's twe ribs to distance between 96 ribs). on the rod). Letting the rod fall through the tute and 18. a Ship • tube is now placed against the ships hull skin an equal distance (however, the hull skin shall penetrate anywhere between the two 12*x1/8" solid brass rod about 1/8"into the brass tube (do not so in the tube or on the rod). Letting the rod fall through the tubull skin should result in penetration of the ships hull skin. Refrength shall not exceed a 18" drop. It is recommended that a sinches of drop to allow for battle repairs and hardening with age ¥0 pua One side. on its placed ship is not exceed a

pe at a club sanctioned 9 6 para. constructed described in para Contest Director pe SP) Superstructure surfaces (except testing The challenger Hull hardness only. challenge ent! shall

+0

submit

JIM LISHER "I'd like a new pair of Levi cut-offs to wear during battling. I don't want a baggy pair shorts like the elder Jass wears, of Sears either."

IF GOD WANTED YOU (AND JASS) TO WEAR SHORTS HE WOULD HAVE GIVEN YOU DIFFERENT LEGS. COVER UP, THE BALS ARE GIGGLING.

JAMES WEST "I'd like a box of exploding BBs for the I-400. Have you ever been on the water with 10 BBs when everyone else has 200?" AXIS' CAPTAINS ARE ONLY ALLOWED 10 BBs BECAUSE THAT'S AS HIGH AS THEY CAN COUNT.

DAVID HAYNES "I'd like to have a planset discovered of a Japanese heavy cruiser with a 10° beam. Do you know how hard it is to stuff the proverbial 20 pounds into a 10 pound hull?" BUILD ALLIED ... WHY BE ASSOCIATED WITH THE AXIS. YOR ARE THE ONLY AXIS WORTH SAVING.

MIKE DESKIN- "I'd like a Star Wars shield for the HOOD. Maybe Marty Hayes could start the software for it on his Macintosh. Even if it doesn't work the Axis will have to spend time and money to develop one of their own." STAR WARS IS BEYOND THE TECHNICAL CAPABILITIES OF THE AXIS. THEY COULDN'T EVEN DEVELOP AN ATOMIC BOMB ... DON'T WORRY .

JOE VILAR "I'd like to change sides and fight for the Allies. Why do the Allies treat me (and Carl) like we're war criminals just because we associate with Fluegel, West and Schneider? I just want some respect." BY THEIR COMPANY YE SHALL KNOW THEM. HOW CAN ANYONE RESPECT THE ITALIAN NAVY?

DAN HAMILTON "I'd like a 396 cubic inch Corvette engine for my Bee. That way I'd finally have the fastest car in 'Bama. I also need a hobby shop closer than New York." THE FASTEST CAR IN 'BAMA WILL ALWAYS BE A CHEVY. A CHEVY ENGINE WOULD REJECT A MOPAR BODY.

15%

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90

tot

JAMES FOSTER "I'd like rewrite the entire R/C 32 Warship Combat rules in 1986. The bozos who rewrote them last year did a rotten job. Can you voting "yes" or "no" on a 300 page imagine document?" LEAVE THE RULES ALONE. THEY'RE PERFECT ... EVEN THE

JOHN JASS "I'd like a C in Calculus so I can go to the 1986 events - not to 1986 summer school". YOU'LL MAKE IT. THE GODS LOOK WITH FAVOR ON THE PURE OF HEART ALLIED CAPTAINS. DID YOU KNOW MY FAVORITE UNCLE IS NAMED RODNEY?

AXIS CAN UNDERSTAND THEM.

MARTY HAYES "I'd like a planset of the RICHELIEU that shows her with a third turret on the stern. I'm working on the Star Wars software for Mike -we won't negociate with the Axis about Star Wars, either."

SORRY, SIR MARTIN, NO THIRD TURRET. LAVISH YOUR LOVE AND CARE ON THE WARSPITE.

JEFF WEST '1'd like a rule change which would allow SSBNs to play our game. Can you imagine the damage a "boomer" could do to the Axisin a fleet battle?"

GRANTED. AFTER ALL, THE ENTIRE AXIS FLEET IS SUBMERGED DURING BATTLE ANYWAY. IT WOULD BE SUB US. SUB.

STAN WATKINS "I'd like an operational torpedo (even a Mark I) so that the O'BANNON could have a chance against the TIRPITZ. I know how James West feels with only 10 BBS." WRITE THE NORTHWEST CLUB... THEY'VE DEVELOPED TORPEDOS THAT HOME ON JUNK. THEY WOULD BE DEADLY.

CHRIS LAWSON "I'd like a 2 amp hour, 2 ounce battery so my 4 stack destroyer could get into battle. I'd like to know how it feels to be on the water with 10 BBs in a destroyer magazine." EVEN I CAN'T FIND SUCH AN ITEM. HAVE YOU TRIED BAKING SODA AND VINEGAR? CONT

protecting prevent the sinking is 0 5 other bow and erline o 40 attached al. be any width. 1165 inch of the tank. inherent 40 ski mater hull TMO more than 1 i hull ib. pe at ia! rudder the inh 7 will affect 40 to solid material a longitudinal ce thick the than solid materi waterline, a purpose o buoancy t aph only, than that a f compart eat the Detween may +0 but thick 40 inch less with built more hard la! eas, watertight con attmpts to defeat material classed line shape but two no n skin, prop fere w agai 9 the ent tend no an extend i pe stringer Sol than hull). +0 solid mates solid solid mates solid mates solid used for twe sufficients g this pare pe round the the hull than 1.5 Shall 3/8 1id greater t Shall 8 6 soli is n 5 40 T E inal unless compartments the lo than nt 98 thicker must not however, Inch 1984 nay be us not have defining the submerge). Poi tudir and i ribs pasn may I ume hull. This includ ment shall be made rward to farthest p made more 1/8 1 be defi p pasn sterr ong longit are 8 tries. relatively DO to the pe ретмеел defined a that a the stri volu F be no 9.0w the the watertight box(es) ; This box(es) shall r or the purposes of de at will completely su pe or box (es), seperate co pe in the MAY no mor stern measured is perpendicular the shape of the h double taken t water filled box enclose a total Can of th material i ck(s) may multiple material 88 be spacing be i otal hull leng h of the hull. Measurement s keel forward The hull skin material; it e e hull. peq 40 shall b имор deck(s) or multi th th Ior shall hull ts, skin DWANCE). interio surfar be and laid belt Minimum Solid m Impenetrable waterline. the extreme s point There s is p No in hull stringer equipment. The sinking (for a model that Shape No water advantages intent. single forms 411 P P Œ P length the (farthest f Du. MOQ le " the error b. shall C. may be impenetrable penetrability of th . 4 5 the the è. ů · ö subdivide the that 0 0 any the encl skin, is def over all SX. 2% SCALE 5. construction it e below from 5 4 Denetrab electronic model from defined as 0 0 hul1 (with pur of the over stern, and the model the hull function thickness tank (forward model. attached œ. Scale This the t from rib to

- Displacement of the model must fall between the scaled down standard and full load plus 10% displacement as specified by the IR/CWCC Ship List.
- The center of the marked waterline of the model must be within 1/8
- a. On ship classes 1 through 6 a ship model may have 1/4 inch wide tape or equivalent painted waterline and ships classes 7 and 8 may have a 1/8 inch wide tape or eqivalent painted waterline or a scale width waterline may be used on any class ship.
 - The ship shall be equipped with a scale number of shafts.
 - 6. Barrels must be installed in all non operational turrets.
 - C. RUDDER SPECIFICATIONS
 - 1. The ship shall be equipped with a scale number of rudders.
- 2. The maximum total movable rudder area allowed shall be by model class as follows

Class	1	4.0	Square	Inches
Class	2	3.0		
Class	3	2.5		
Class	4	2.0		
Class	5	1.75		
Class	6	1.50		
Class	7	1.0		
Class	8	1.0		

- Ships with 2 or more rudders may have 50% more total rudder surface
- 4. If a ship has a scale rudder or rudders which have more surface area than allowed above then that ship may have the scale surface area if it can be substantiated by three sources.
 - D. REVERSE
- 1. All model ships must be able to change from forward to reverse motion by radio control.
 - E. GUNS
- A gun shall be defined as an offensive unit and shall not fire any projectile other than a BB (.177 inch diameter steel shot).
- Maximum gun firing pressure shall not exceed the ambient temperature pressure of Freon 22.
- 3. All guns must be equipped to fire single shot.
- A single shot gun is defined as one which fires one BB for each transmitter joystick movement from neutral to a fire position and return to neutral.
- 4. For test purposes a single shot gun will be allowed a 20% variance in the ratio of stick movement to BPs fired. Example: For 30 stick movements the gun may fire anywhere from 24 to 36 BBs and still be legal. The contest director shall determine compliance both with shore testing and firing characteristics during battle.
- a. Single shot gun testing shall be by challange only.
 The challengers guns will be tested at the same time as the challenged guns.
- 5. Guns must be placed in turrets or casemates occupied by the main the ship modeled. No guns may be mounted near the waterline or below the battery of waterline.
- Bow and stern firing guns on all classes of ships cannot be angled ore than 15 degrees either side of the longitudinal centerline of the model.

Missouri.
hours to
company?"
IF YOU T TOM JASS "I'd like to publish HULL BUSTERS for a year. That rag needs some class. The photos are a disprace. I'd make it into a dynamite publication —— just like the Bears are a class act."

NOT GRANTED, WITH THE BISMARCK SUNK AND THE COMBOYS SINKING, FLUEGEL NEEDS SCHETHING TO HOLD ON TO. HIS BLACK HEART IS BROKEN. LIVING BORING. WAYNE STEVENSON "I'd like Nati September. Then my ship woul could ravish Fluegel." FLUEGEL WILL ALWAYS SCHEDULE CAN'T STAND ANY HORE BAVISHING. BRIAN SCHNEIDER "I'd like a tri Schneider family to the Allies. Soring and hot it is down here?" THE SIMS OF THE FATHER, UNTO THE HE NEEDS HELP. AGREED...JUST STAY ship. Why do we always havenough to fit into a suitcase?
WHY DON'T YOU BUILD A POCKET E
1/288 VERSION OF THE IOMA? to UCLA. Jun here?"

ZING AN ALI
"TS QUIT. NOBLE "I'd like finish school and go climate." SCHULTZ buri. Do IN SPRINGFIELD ALLIED CAPTAIN p,I. Do you to the Allies. Do you like my dad like to move to Springfield, know what its like to drive 20 -- with your father-in-law as like a transfer from Michi you know how boring and colo 9 POCKET BATTLESHIP OR FOR 365 유 have to Would be finished and TAKES FORTITUDE ... UNLY and I to MATS BAD ... THINK I to build build one SON ï You Know

YOU MIGHT TURN OUT LIKE JULY ... HE MAYBE small .STAY and to t the 0 = F HE TOLD YOU YOU'D SALINI YOU EVER RAMMED BE HIM AGAIN SORRY

BUT YOU

DON'T NEED TEXAS.

1/2

CHRIS ANDERS "I'd like tapplication and Join the Navy." SORRY, CHRIS, THE U.S.NAVY I YOU DESERVE TO POUND GROUND. IS ALLIED, ô cancel ... Army

d battling at the 1986 would THE B6 Nats." YAMATO 5 REMEMBER? the water

sent. A Merry Christmas to all the stalwart, courageous, handsome, intellegent, etc., Allies...the Axis stockings will be filled with coal and switches (for the tenth consecutive year). You think they'd see the folly of their ways and repent.

ST. NICHOLAS

YEAR.

- Classes 1, 2, and 3 may have side shooting guns (any gun which is angled more than 15 degrees from the longitudinal centerline of the model).
- During any sortie there shall be a maximum of one firing gum
- Side shooting guns may be down angled any amount allowed by the b. structure of the ship.
- c. When battling one specific quadrant shall be left undefended at all times.
 - 8. Rotating turrets are allowed on classes 1, 2, and 3.
 - a. Rotating turrets must not violate rules 7a. and 7c.
- The ratio of offensive and defensive units is the choice of the captain but may not be changed during the course of a battle. Offensive unit positioning may be changed between sorties of a battle.

I. SPEED

The models maximum speed shall be determined by taking the real prototypes speed from the IR/CMCC Ships List and comparing it to the table below. Prototype Max. Speed Model Max. Speed.

ococlbsm. cheso	
35 Knots +	22 seconds/100 ft
30 - 34 Inots	24 -
25 - 29 inots	26 "
20 - 24 inots	28 "
15 - 19 knots	30 "
14 knots -	32 "

- Speed testing will be by challenge only. The challengers ship will be speed tested at the same time.
- Testing will be over a measured 100 foot course from a running start with fully charged batteries. The challenged ship will be piloted by the challenger and the challengers ship will be piloted by the captain he challenged. The timing will be done by the Contest Director or by someone appointed by him.

J. VIOLATIONS

- A violation shall be defined as any ship that is not constructed in accordance with any one of or combination of the preceding construction rules.
- Any ship suspected of being in violation of any rule shall be brought to the attention of the Contest Director. The Contest Director or someone appointed by him will immediately investigate the suspected violation and/or apply the
- A Citation of Non-Compliance will be issued to any captain whose ship has been determined to be in violation of one or more construction rules.
- All Citations of Non-Compliance will be submitted to the IR/CWCC secretary and kept on record. A copy of all outstanding citations will be mailed to the Contest Directors of all future IR/CWCC sanctioned events. The ship receiving the citation shall not compete in any future Club sanctioned event until it has been inspected and/or tested by a Contest Director and found to be in compliance with the rule(s) which was violated. This Contest Director shall then inform the IR/CMCC secretary that the ship is now in compliance and the outstanding citation will be stricken from record.
- 4. If a ship is in violation a secret ballot will be taken among all participating captains (both sides) to decide if the violating ship can compete without correcting the violation. If one dissenting vote is received that ship CANNOT compete until the violation is corrected.
- a. If a battle is in progress this vote will occur prior to the next sortie. Otherwise, the vote will be taken prior to each subsequent battle as long as the ship is still in violation.
 - b. This voting will only be allowed during the sanctioned event in

The O'Bannon operate the p October 19 gun Servo valve on the mon morning non would

O'Bannon had been exinterference and Star motors in Dallas Thuu flight. The motors we noise persisted. A s shafts then cleared u problems! O'Bannon w en experiencing radio d Stan would change out her would stan would stand the farmer of Apray night after his tors were changed out and the l. A spraying of WD-40 on the lared up all interference moon would fight at Decatur! weak to

The O"Bannon once more became "carry-on lugga on Thursday night October 17, 1985 on the 7:3 Southwest Airlines flight from Amarillo to Dallas. David Haynes of Abilene had Offered Stan and Fluegel aride to Decatur if Stan couget to Dallas by noon Friday October 18. The O'Bannon was hurriedly packed and flown to Dallas. The As the first sort sprudent to stay n seemed a good chow as transfer a fleet to get at 0 around and this tander of spirited little spirited little spirited little spirited prowl".

But he who live the O'Bannon or Foster's Virible and the Virible O'Bannon once breathed a sign All at once the to overflowing warspite became gun crews put the before waking get the better (Battleship. Thistory as the out with a Battland had survive. it once the O'Bannon's gunsights were filled rerflowing with an enemy behemoth. The HMS life became O'Bannon's first "victim". The rews put two quick rounds into Marspite waking good the retreat. It felt good to he better of an exchange with a poverful eship. The O'Bannon had now repeated ry as the original O'Bannon had slugged it with a Battleship at Guadal Canal in WMII and survived. Viribus a si lives on was iribus es by the g as getting us Unitas. fired a bi of relief came con't can dies by the gun and tas. Three passes were made up with no bit the

A current topic of some interest seems to be Convoy Battle. Some suggest that the convoy ships get guns, pumps, and or watertight bulkheads. Well we do need some type of incentive to build and captain a convoy ship but perhaps the answer is not to strengthen the convoy freighter but to weaken the convoy combatants. I therefore suggest that convoy battle be composed of the traditional convoy ship and only "Small Ship" combatants. I also believe that the Captain of the convoy ship should be given a generous number of battle points for surviving a mission and a cut of the damage points scored by the armed ships whether or not his mission is successful.

Well, now on to the "Small Ship In A Big Ship War" story of the O'Bannon in Decatur.

therefore not participate in the first fleet battle. Terry Darby loaned Stan a servo to hook up to the gun system but it was not compatible. Stan's servo was reinstalled and the system was majically now functioning perfectly! Praise the Lord! One other ingredient was now necessary. Terry Darby had shown Stan the magic mending tape trick at the Nationals. A strip of tape over the gap in the 0 Bannon's rear deck would keep her dry. Mary Havilton was kind enough to take Stan to a store to get sone of the tape. Now the 0 Bannon was back in time to declare her readiness to go into the Second Fleet Battle. It was to be her first "Big Ship Fleet Battle" n a servo to hock not compatible. e the her to

Greetings Combatants!

BSERVATIONS

OF

THE

FOUNDING

FATHER

e first sortie began Stan thought it not to stay near an American BB (Alabama da good choice). Sure enough, Fluegel's utzow was trying two flank the American to get at 0 Bannon. Some maneuvering d and this threat was overcome as Fluegel d no part of the Alabama's broadsides. Stan developed some confidence in his ted little ship and the "Big 0" was soon

- Guns may be mounted in the superstructure if the main turrets are physically too small to house the gun.
 - 7. Maximum gun elevation shall not exceed 10 degrees above horizontal.
- All ships to legally enter a sanctioned event must have all superstructure parts which exceed one cubic inch in volume in place.

F. ADDITIONAL WEAPONS

 Since the goal of the hobby is to conduct safe surface gun battles, other weapons such as mines, torpedos, ram bow usage, depth charges, rockets, fire, acids, bases, etc., are not allowed.

G. PUMPS

- A pump shall be defined as one defensive unit and shall not be of a positive displacement design.
- 2. A pump shall have one round 1/8 inch inside diameter discharge port that is measureable from the outside of the ship.
- A pumps motor shall be no larger than the largest propulsion motor in the model.
 - 4. A pump shall have only one intake.

H. WARSHIP CLASSES

 Only ships which were launched between 1905 and 1946 inclusive and were completed will be legal to model (refer to IR/CWCC Ship List for legal ships). Listed below are the authorized classes and the offensive/defensive units allowed:

> Battleships 33,000 tons and over. Battleships 25,000 tons to 32,999 tons.
> Battleships 25,000 tons to 32,999 tons.
> Battlecruisers 30,000 tons and above. Battleships 24,999 tons and under. Battlecruisers 29,999 and under. CI ASS 4: 3 units Fre-Dreadnaughts battleships Heavy cruisers built after 1922. Light cruisers above 9000 tons built after 1922. CLASS 5: 2 units Heavy cruisers built through 1922 (armored cruisers). Light cruisers less than 8999 tons built after 1922. CVAs Saratoga, Lexington, Akagi, and Kaga. CLASS 6: 1 unit Light cruisers built through 1922 (protected cruisers) CLASS 7: 1 unit Destroyers, destroyer leaders, submarines. CVAs and CVs. CLASS 8: 1 unit Gunboats, CVLs and CVEs.
> All other ship types not listed above.

- 2. All displacement values shown above are standard displacement.
- All displacement tonnages listed above are in English tons (long tons) of 2240 pounds each.
- All ships are classified according to their original AS BUILT specifications; reconstructions at a later date will not affect the class of the ship.
- All classes except 7 and 8 will use a standard magazine load of 50 BBs per offensive unit. Class 7 will use load of 20 BBs. Class 8 will use a load of 10 BBs.

As the sortie opened the Cleveland seamed to mann hang back behind the rest of her fleet. The Shell of Bannon charged around the island and found her and victim unescorted. Attack was the order and soon the Big O's gun was blazing away. Hits gut were heard. As the target moved the strategy of declarations are supported.

She

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On Sunday October 20, 1985 Stan's confidence in his ship and crew was rising to the point that he wanted to single out an enemy ship for destruction. The target would be the Cleveland the driven by Alke Deskin. The O'Bannon would attempt to put holes in her bow which reshould cause her to take on water when she made head-may. Good plan but could she isolate the Cleveland and could she hit her and could hu

e. O'Bannon's midsection. Loy Rasmussen's Z-33 had ge of fallen to that fate against a British battleship to and now it was O'Bannon's turn to pay the price. It was the battleship and now it was o'Bannon's turn to pay the price. It was crossing the barrier that the Warspite could not cross. But as she attemped to turn and not cross. But as she attemped to turn and ein must back up and turn and back again and turn to conjecte the sharp multiple turn. As she began to back up in the first part of this maneuver the terrible bow gun of the Warspite chouted out its anger at the presumptuous pest. The O'Bannon reald under the impact but kept on turning. Sheeting from her hull could be seen flying through the air as hugh holes appeared in her hull. Damage control reported that a hit at the waterline was causing rapid flooding. But finally the O'Bannon completed the final maneuver and neaded down the channel into the sheltered port. Then the time limit had expired the final maneuver and neaded down the channel into

landed in the portside hull amidships. Where tid the shot come from. Soon it was evident that the Warspite was after revenge for the previous exchange. The Captain yelled "two minute rule" and ordered "Flank Speed" and hard over rudder! The Big O did her captain for a minute rule" and ordered "Flank Speed" and hard over rudder! The Big O did her captain for a minute) thought she was lost. Then Stan deal ashore (including her captain for a remembered that the ship would right herself again if he would simply give her opposite rules. Stan did this and she came back up again. One of the combatants was heard to yell, "when does the next show start?".

She had soon lost the darspite and cleared the battle area. Soon the tid hid expired and she had survived her first Big Fleet battle. But what about the second sortie? Could she survive with the large hole in her hull? Probably she could so she was readied for the next sortie. The "Rest of the World" fleet declined the second sortie of the battle due to a shortage of ships. The O'Bannon was therefore allowed to patch her damage. Rick Schultz the Maryland's captain took care of that for Stan while he was patching Marylands holes. Thanks Rick.

hitting the bow was modified to hit the saip. Then the Cleveland was running and the 0 Bannon was following. But the Cleveland's stern gun was keeping up a steady barrage. Suddenly the 0'Bannon realed from a hit in the box then another and another. Two minute rule, Stan yelled and broke off the pursuit. The Cleveland did not seem to want to chase the 0'Bannon so she was retiring in peace. It was a good thing. Big 0's speed was falling off rapidly. Just as well, the hits might take on excessive water at high speed.

Just when things had settled down to the routine waiting, the Warspite blotted out the horizon. In the Big O would have no time to lick her younds she must run for her life! She headed toward the sheltered Estuary. But her speed was really down, Warspite was catching her! At any moment the deadly broadsides would blow out O'Bannon's midsection. Loy Rasmussen's Z-33 had fallen to that fate against a British battleship and now it was O'Bannon's turn to pay the price.

risk the sink. After discussions with the other American Captains assistance was pledged and the decision was made to "Go for it!". The Warspite would be after her again but the USS New York would shield her from fire.

the was launched and the Two minute rule was declared at once. The Warspite was seen approaching. Why was she so bent on O'Bannon's destruction? The New York was protecting O'Bannon from the Warspite's fire like a roof protects against the rain. Thanks Dan. Not a single new hit! But with about 30 seconds left in the two minute rule, the O'Bannon drifted sligltly ashore and tilted the holes under the water. She filled rapidly and sank. Sunk by gunfire for the first time.

Captain Watkins was haunted by the question, could the O'Bannon have survived if he had put her in a gentle turn to cause a list away from the holes on her port side. By turning to the starboard ship would list to starboard and rais the holes above the water. On October 27, 1935 the question was answered. The O'Bannon was sailed with the same holes, batteries, and othe conditions and put in a starboard turn. She took on some water but easily survived the 2 minutes. She could have survived. Live and learn.
Well, That's it for this issue.

Let's Battle!

Stan



News From "BATTLE GROUP BB63"

November 1985 Steve Milholland

Springfield, Missouri NEWSFLASH, Official !!!!!! "BATTLE GROUP BB63" is now sponsored by the Springfield Park Board. Back in September Mr. Fred Obert, our contact at the Park Board, called me and said that the public response to the Nationals this year and the last couple of years has been so widespread that they wanted to sponsor our local club. They felt that the hobby was something that the public in the Springfield area could possibly get involved in. Mr. Obert said that the Park Board wanted to work with our club just like their other programs such as the city wide vollyball, softball, basketball leagues, ceramic workshops, chess club, and other hobby activities. As the result of several phone calls and one meeting the requirements of the Park Board and the Club were exchanged and an agreement was reached. "BATTLE GROUP BB63" now has the use of Ray Kelley Craft Center on every second and fourth Tuesday of each month. An added benefit of this sponsorship is that the Park Board will be helping with advertizing our meetings and any future events that we may have.

Meetings have been starting at 7:00 PM and have been lasting about 3 hours. The emphasis has been on "Hands on workshop". At the last meeting there were five ships under construction.

Here is a little rundown on a few of the new members to our local Club. Mickey Ashlock has the framework cut out for a Pensacola. John and Howard Paulson (another father and son team) have the hull assembled but not sheeted for another Pensacola. They have already purchased a four channel radio and Dumas moters. Pon Christlieb has a completed hull for a Lutzow. It is sheeted and has a fiberglass bottom. J.D. (Sarge) Wetherington is a retired Air Force rating who is an avid R/C aircraft man. He has plans for a Naichi and New Orleans and claims that both will be afloat by next Nationals.

Now for news of the old timers of our group. A lot of new construction is going on here. Dave Garrett has the hull complete and some machinery installed in a model of the Italian BB Dante Aligheri. Chris Lawson is cutting out ribs for an Alaska class CB. Jim Lisher and yours truly are working jointly on two South Dakota class BBs. Jim is building the South Dakota and I am building a replacement for the original USS Alabama. The most prolific builder is James Foster. He currently has three ships on the building ways. Frameworks are complete for a San Diego class CL and the Vitorio Veneto, another Italian BB. The hull is complete for another ship but I believe that the ID of this one is being kept under wraps for the time being.

I guess I'll close for now. Keep your freen dry.

Northeastern News

Well, it's becoming ice breaker weather again in the north and everyone seems to be busy in the boat yards. A great number of ships seem to be under construction this winter and we should see a large turnout in next year's spring regionals.

Some of the ships which I know about are: Two large Italian BB's of the Vittorio Veneto class are under construction in New York (Carl & Joe), a Zara class cruiser is being built by Rick Schultz in Maryland (we may disown him), Rick's old Massachusetts has been sold to his sister and is being refitted for battle, Danny Schultz is still fitting out the Colorado (this time with more guns), Bob Amend is well along on the South Dekota, an lowa class BB is being built in Glen Burnie, Maryland by Dan Hayes, 7936 Cross Creek Drive(send tapes) and Mark Hayden claims this will be the year he gets his New Orleans cruiser into battle. As for me, the Warspite is presently in my drydock, being reconditioned for next year.

All in all, this may be the year of the BIG BB's with six units being allocated to them. I can't wait to see how these big ships do on our small lake with all of the islands. I hope to see some of our old members get out this coming year and do some battle. We have missed you guys out there and look at all of the cannon fodder that will be afloot (for awhile) next year.

Rick Schultz has been 'appointed' to head up the committee for the spring regionals in Moryland for next year. The dates are June 7th and 8th so put them on your calendar. We hope to be using the same lake again this year (picture at top of page). The hotels will be the same again also. Information packets will be available and will include hotel information, maps of the area, and last wills and testaments for Axis captains. For info. packets write to Rick Schultz, RR#1 Box 263K, Queenstown, Maryland 21658.

Rick, Mike Deskin, and myself went to the Southeastern Regionals in Decater, Ala. and had a great time. Mike rode down on his motor cycle with his sister and didn't bring a ship with him. He managed to get in some battling with a borrowed ship, the Cleveland. Rick and I drove down in my stationwagon. Rick had the Maryland and I brought the Warspite. The Warspite got caught up in a little bit of history when it saw Stan's destroyer and took the bit in it's teeth. After chasing the poor little thing into the shallows, it had to be run off by the big bad Alabama and Maryland. The Warspite got paid back on Sunday when it had to be declared sunk after Foster blew a big hole in it's side. The Maryland servived the trip south with only minor battle damage for the weekend. The people down there indicated some interest in attending our regionals this coming spring and we hope they can. The spring regionals in the Southeast will be in early May (which is one reason we picked early June for our regionals). Rick and I hope to attend their spring regionals but have made no firm promises.

I hope to have a new boat yard soon, the computer room (den) breaths a sign of relief. I'm having a garage built behind the house and I've already told my sons-in-laws that no cars will ever see the inside. Everyone knows garages are not for cars. T'will make a good repair base for regionals, I think.

Marty Hayes, Capt of the Warspite

Vicious Rumors By Oliver Smith

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It has been said that the Axis fleet displays poor scale appearance. Nothing could be further than the truth. Actually, they're very true to life, when you consider how the real ships look now...

Bulletin from the Secretary of the Navy well men the winter is closing in. Time for the building and refitting. The following are prob-ably the final scores under the old rules as we eagerly await the spring and the new year. These are the scores as reported to me as of November 22th 1985. 1. Carl Camurati ----- 6,635 2. Rick Schultz ----- 6,234 3. David Haynes ----- 6,042 4. Steve Milholland ----- 4,137 12. Dan Hamilton ----- 1,440 13. Brian Schnieder -----!,337 14. John Jass ----15. Dan Schultz ----16. Stan Watkins -----865 17. Mike Deskin -----18. Gerald Roberts -----19. Tom Jass -----20. Jim Lisher -----21. Wayne Stevenson -----22. Jeff West -----23. Jeff Poindexter ----

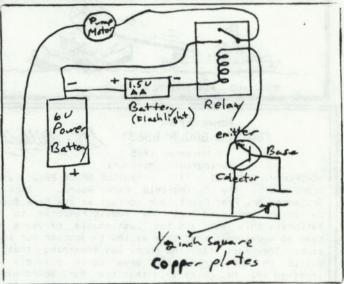
Pump Turn Systems and Speed Controls

By Schnieder

I am not going to repeat my pump turn on system article from about three years ago. In it I described float switches, relay alone and using transistor alone for a turn on system. There really isn't anything badly wrong with any of them. As a matter of fact , had I continued to use 12 volt motors **I** would have probably continued the transistor alone system. It is cheap, simple, and it works all of the time. There is a 1.2 volt drop across the transistor which is a 10% drop in power but translated into pump efficiency this is only a 5% loss and in the days of 4 pumps in a battleship with unlimited outlet size this was never a problem. When rule changes demanded greater power, and I went to 6 volt motors, I was looking at a 20% power loss and a 10% loss in pumping ability. This still isn't a lot less. An obvious answer was to combine the relay and transistor system and this has no voltage drop yet doesn't require a lot of voltage to operate as the relay alone system alone system does. Basically this system uses a transistor to turn on the relay. have used this system for two years and it has never failed. I have had pump failure for other reasons but never because of the pump turn on system.

The above system is basically designed for 6 volts. The transistor is from Radio Shack *TIP 120 NPN Darlington Transistor. The relay is NOT readily available. You can get it from Digikey Corporation 701 Brooks Ave South PO box 677 Three River Falls, Minnesota 56701 part \$2423D. Any relay will do provid-

ing the coil rating is 6 volts and the contact rating for the contacts is sufficient for your motor. By now you are probably wondering why the flashlight battery is stuck in there. There is 1.2 volts drop across the transistor and this only leaves the relay 4.8 volts which is marginal. I have been unable to find any relay with a 4.8 volt coil rating with sufficient contact rating. The battery makes up for this. There is a way to simplify construction in that the "collector" of the transistor is grounded to the heat sink tab so if you solder a piece of metal to the pump base (or pump motor if the whole thing is made in one piece) and bolt the transistor to it, the lower plate is not necessary. The pump base has to be metal. If it is not you must use two plates as shown.



Now some notes on speed controls and speed limiting devices. Aside from changing the number of batteries and type of moter there is still a great possibility you might be needing some sort of resistor to adjust the speed of your ship. The way this is done usually is with resistors. These aren't always easy to find in the right wattage and resistance. An alternative to this is to use diodes. There is a .6 volt drop across each silicon diode so by putting one in the circuit you drop the voltage precisely .6 volts for every one you put in. Be sure the amp rating is sufficient. These can be arranged in parrallell if you can't find one with high enough amperage. Please also note that current only flows through them in one direction so they must be in the circuit before the reversing switch. I have not actually used the above but they are used exactly this way in some voltage regulators. They precisely drop the voltage available which is usually only deter-mined by trial and error. If you don't understand the above do yourself a favor and give your mind some exercise by reading UNDERSTAND-ING SOLID STATE ELECTRONICS. Radio Shack sells it. You only need to read the first half or so. Don't let it scare you. It is a lot more interesting than reading about how the bad guys won World War Two. Vive El Duce

Allied War Crimes By Rolf Jones

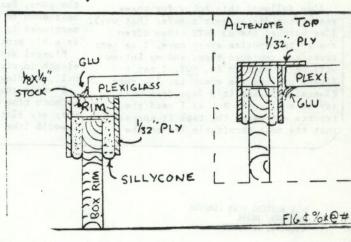
Not only did the Allies have the gall to fight the Axies this year, but it has been discovered that their ships were powered by thousands of miniature slave laborers. How disgusting. I move that the responsible parties be hanged and shot, at the same time. Oh, by the way, Stalin's grave is a communist plot...

Construction is a simple matter. Build a box of ample size to hold your radio gear. I use 1/8 inch ply for all the sides but where the valves go through which requires 1/16 inch ply. leave at least 3/8 inch clearence between the top of the sides and the under side of your deck. You could save 1/4 inch of clearance by putting the plexiglass inside the lid instead of on top, however. Waterproof this box and set aside to dry (I use epoxy). Next build suffecient channel out of 1/8 X 1/4 inch stock and 1/32 inch ply to make Cut the a rim completely around the box. channel to the corrct lengths and angles needed and glue together to make a complete rim. You want the edge of the box to be centered in the channels of the rim. Coat the top edges of the box liberally with Vaseline and fill the channels of the rim with silicone. Carefully press the rim onto the box keeping everything aligned

and centered. Set aside at least overnight to cure. After the silicone has cured remove the rim carefully and trim away any excess silicone. Afterwards glue the plexigless on top of the rim or inside the rim with the addition of 1/32 inch ply glued to the top of the rim assembly. Waterproof the top and you are ready to go! See figure ¢%*@# for a picture or two.

One problem you may encounter with this box is difficulty in putting the lid on. The assembly is so airtight that pressure inside the box will keep pushing the lid up. You could drill a holeand stick a cork in it to bleed the excess pressure off, or perhaps intall a valve to bleed off the excess pressure. Another idea is simply to install some kind of clamping system to hold the pressure inside by holding the top down. Its up to you. Also, I always lubricate the silicone seal surface with Vaseline to prevent wear and tear before every battle.

Jame C Forts



Cut Here

THE LAST HULLBUSTERS By Editor

Well, this is your last copy of Hullbusters! That's right, everybodies' time is up. No more sick junk mail polluting your mail box.

No more viscious rumors, no more out-and-out lies and best of all, no more Tom Jass! Gosh, my tender Axis heart is getting sentimental. So, I prefer to look at it this way. Everybody owes me Money! Since your mailing me the \$6.00 please feel obligated to fill in the survey. It's for all subscribers.

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battled.yes___no___.#4. I read Hullbusters in public! yes___ of course not___.#5. I wish the ships could go faster___slower__ Current rules are fine___.#6. I think there should be greater emphasis on the non-battling aspects of the hobby.yes__ no__.#7 I would like to see the club dues lowered__raised__ no opinion__.#8. I believe this hobby will involve thousands of people within 20 years.yes__ no__ HaHaHa certainly not__.#9 I am coming to the NATS as an Axis__Allie__ not at all__.#10. In order to increase the range of combat I would support a rule that established a minimum range.yes__ no_. Check the items that you feel don't belong in the hobby,#11.convoy__ #12.Shore bombardment__#13.night battle___#14.Submarines__#15.Tom__Jass_X__.

SEND MONEY! To D.W.Fluegel,3524 Gray dr, Mesquite TX,75150.Past 1985 copys \$1.50 each,1984 \$1.25 each, and 1982 Annual issue only \$5.00.No "funny money" from out of U.S.A..Foran rates are duabled. ADVERTISING rates are \$2.00 per column inch (approx 8 lines).CONTRIBBUTING AUTHERS are vital! send articles typed, single spaced, title it and include "By line". This is inportant, the length of your typed line must be 4 3/4" long. Pleas use a ruler.

NOW HEAR THIS

Cast off all lines prepare for the fourth annual be presenting a small best of scale trophy in try out all those new big Battleships, Battle all excited and eager about the new ships and the new rules. The dates for this event are the first weekend in May (May third and fourth). The If you are interested write me Dan Hamilton at place Decatur Alabama. The event will be N.A.M. - route #3 box 558 Decatur Alabama 35603 or call -B.A. sactioned(unless changes occur in our in--surance) and all Club Rules will be followed. There will be two 2 sorti fleet battles on Sat--urday followed by individual combat that can be for entry and a five dollar late fee if it is either 1 or 2 sorties. There will be one 2 sorti recieved after Monday April 21th 1986. It helps fleet battle on Sunday followed by individual us to prepare for you if we know you're coming fleet battle on Sunday followed by individual combat. The regular ribbons will be awarded for winning fleet and individual combat. You could take home the traveling trophy if you can take it away from Steve Milholland. The traveling trophy is given to the person with the highest

point total which means winning in some individ--ual combat. This time for the first time we'll order to recognize some fine building skills and Spring Southeastern Regionals. This will be one order to recognize some fine building skills and of the first battles of the new year and time to encourage people to maintain their ships quality thru out the year. You must compete in four of Cruisers, Cruisers, and Destroyers under the new the scheduled sorties in either fleet or indivirules. Everybody I've talked to and myself are -dual combat to be eligible for the best of scal -dual combat to be eligible for the best of scale award and the winner be determined by a vote of all participants after four o'clock on sunday. 205-355-1563 for a entry form which will include further information about where to stay in town and other things. There will be a ten dollar fee at least two weeks in advance with frequency arrangements, fleet arrangements, number of aw--ards, and other things. We'd love to see you in the spring so write or call us soon. Jan and mary

THE REAL ENEMY By CURLY BARRETT

I've followed this hobby for three years (at a distance-it's safer that way). I've watched the 83 NATS video often enough to memorize every move. I've sent tapes and recieved tapes and my Lutzow will be at NATS in 86. BUT, I can't figure out who the enemy is. I'm sure Fluegel will say it's Jass. Jass will say it's Fluegel. But as I read the reports and watch the tape it appears that the most formidable foe on the

water is the bow of a ship--ANY ship. Hundreds of hours of building, Tweaking the guns, Sea trials. It all seems to boil down to RAM DAMAGE!! Chris Pearce mentioned it in the 8/85 Hull Buster. It is a big problem.

Fluegel says I should put a oneeighth in piano wire just inside the hull. running \"(through the ribs)Deep.

I would suggest that the hobby spends so much time combating one another that they are slack in the area of seamanship. I would like to see a contest which was

set up to show the manuverability of the ship and the command that the ships admiral had. An obstacle course and/or a driving course. It would do no damage to the ships and might teach better habits on the water. I might take great pride in sinking Jeff Wests Iowa Class if I shot it out from under him(dream on LUTZOW) but if I Ram sink him I will feel like an *#@?\$ (translates to: ALLIED CAPTAIN) I'd like to hear other peoples point of view on this.

HULL BUSTERS VERY LIMITED 3524 GRAY DRIVE MESQUITE, TX 75150

