

ABOUT THE KIT

SUMNER CLASS DESTROYERS WERE BUILT IN USA DURING A PERIOD OF 1943 - 1945 . THESE SHIPS REPRESENTED FURTHER DEVELOPMENT OF FLETCHER CLASS DESTROYERS.

DESIGNERS WERE INCREASING FIREPOWER AT THE COST OF DECREASING SPEED . AT A LATER STAGE , HULL WAS MADE LONGER , AND THIS NEW PROJECT WAS CALLED GEARING CLASS

ALL THESE MODIFICATIONS WERE BEING INTRODUCED WITHOUT SLOWING DOWN WAR TIME PRODUCTION OF SHIPS.

POST WAR PERIOD SAW A LONG SERVICE OF DESTROYERS OF THIS CLASS IN US AND OTHER NAVIES.

DESTROYERS OF FLETCHER-SUMNER-GEARING CLASSES WERE CONSIDERED BEST WWII PERIOD DESTROYERS IN THE WORLD.

YOU WILL HAVE NO DIFFICULTY TO FIND A LOT OF INFORMATION ON THEM IN INTERNET AND BOOKS.

THIS KIT ALLOWS YOU TO BUILD MODEL OF DD-727 USS DE HAVEN IN CAMOUFLAGE PATTERN , OR DD-723 USS WALKER IN TWO COLOR PAINT SCHEME IN 1:192 SCALE.

SOME 70 DESTROYERS OF THIS CLASS WERE BUILT ALTOGETHER , AND THEY MIGHT HAVE HAD VARIOUS DIFFERENCES BETWEEN THEM , ACCORDING TO DIFFERENT SHIPYARDS , AND ON GOING MODERNIZATIONS AND CONVERSIONS. WITH SOME MODELING EXPERIENCE AND ANALYSIS YOU MAY BE ABLE TO BUILD OTHER VERSIONS OF THIS CLASS BASED ON THIS KIT.

THIS KIT IS DEVELOPED FOR EXPERIENCED MODELER , AND ALLOWS TO ACHIEVE MUSEUM QUALITY MODEL THANKS TO SPECIFIC TECHNICAL SOLUTIONS INBUILT IN THIS KIT.

PHOTO ETCHED PARTS CAN BE ASSEMBLED ON SUPER GLUE. HULL IS SUPPLIED IN ASSEMBLED FORM , REQUIRING ONLY SECONDARY ADJUSTMENTS.

SUPERSTRUCTURES ARE SUPPLIED AS SEPARATE ASSEMBLY UNITS , WITH CONNECTION ON SCREWS , WHICH ALLOWS TO PUT THEM ON MODEL , ADJUST AND REMOVE MANY TIMES DURING CONSTRUCTION , AS WELL AS SEPARATELY PAINT THEM .

SUPERSTRUCTURES ALSO HAVE REMOVABLE DECK COVERS MADE OF PHOTO ETCHING , CONVENIENT FOR SEPARATE COLOR PAINTING AND DECAL APPLICATION.

RAILINGS ARE SUPPLIED IN FORM OF PHOTO ETCHED STANCHIONS , WHICH AFTER PAINTING CAN BE FIT ON DECKS AND RAILING THREAD PASSED THROUGH THEM SIMULATING REAL SHIP RAILINGS CONSTRUCTION. SUCH TECHNIQUE BESIDES BEING CONVENIENT , IMPROVES OVERALL IMPRESSION OF THE MODEL.

SMALL FITTINGS ARE CAST IN BRASS , WHICH IS HIGHER GRADE QUALITY THAN PEWTER CASTINGS.

ASSEMBLY REQUIRES A SET OF TOOLS THAT USUALLY EVERY MODELER ALREADY HAS.

PREFERABLY A GOOD MINI MOTO OR ROTARY TOOL AND AN AIRBRUSH TOP THE TOOLS ASSORTMENT.

PAINT WORKS CALL FOR AN ASSORTMENT OF GOOD MASKING TAPES.

THIN GRADE , PENETRATING SUPER GLUE SHOULD BE A GREAT ASSET AMONG OTHER TYPES OF GLUES AT HAND.

FOR THE CONVENIENCE OF WORK , IT IS GOOD TO CONSTRUCT ANY KIND OF TEMPORARY CRADLE FOR SHIP TO SIT ON DURING ASSEMBLY.

MANY PARTS AND FITTINGS HAVE PINS WHICH ARE GREAT FOR HOLDING PARTS DURING VARIOUS WORKS AND FOR SECURE FITTING THEM ON MODEL.

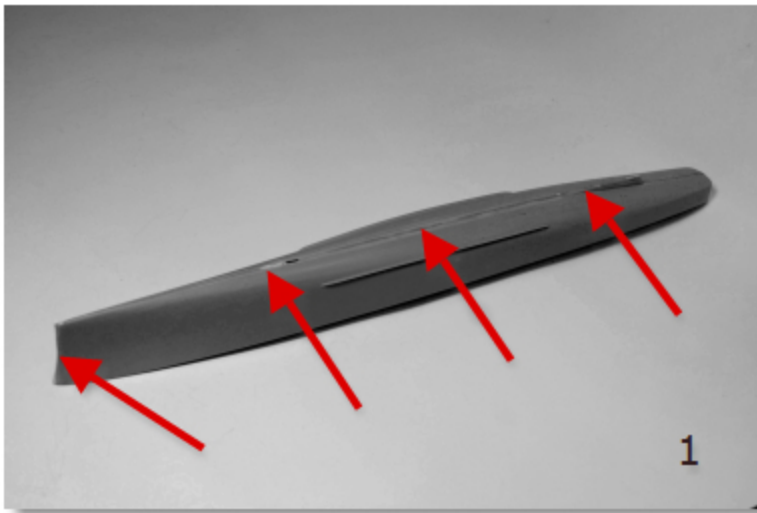
WIRE PINS CAN BE FIT FOR SAME PURPOSES INTO RESIN PARTS TOO.

TO GUIDE AND FACILITATE ASSEMBLY , WE ENCLOSE A LOT OF PHOTOS AND ASSEMBLY DIAGRAMS IN PDF FORMAT , WHICH YOU CAN PRINT OUT IN 1:1 SCALE WITHOUT ANY SPECIAL SOFTWARE, ALSO INTERACTIVE PHOTO CATALOG OF PARTS FOR EASY NAVIGATION .

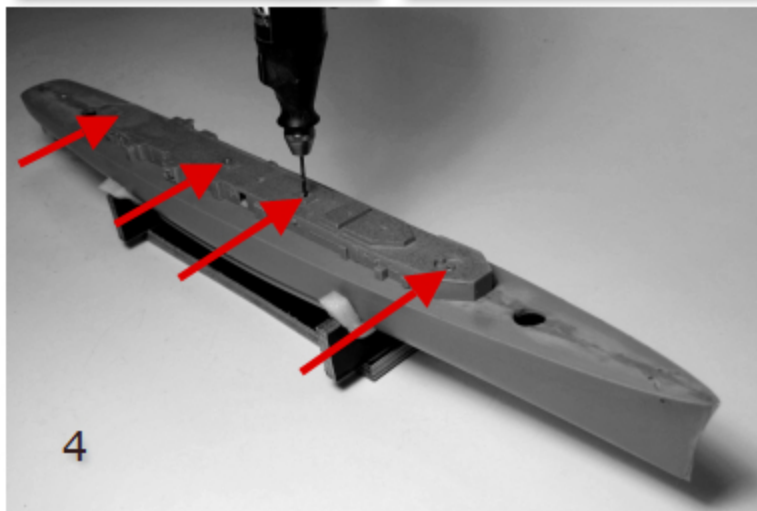
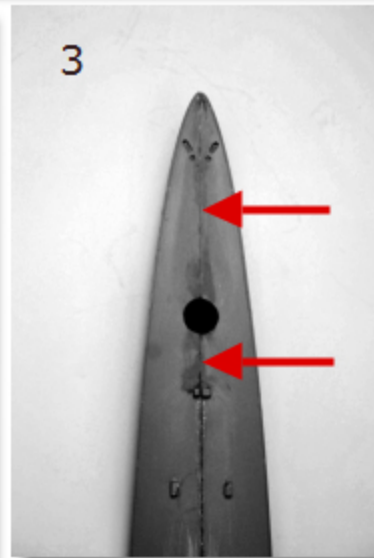
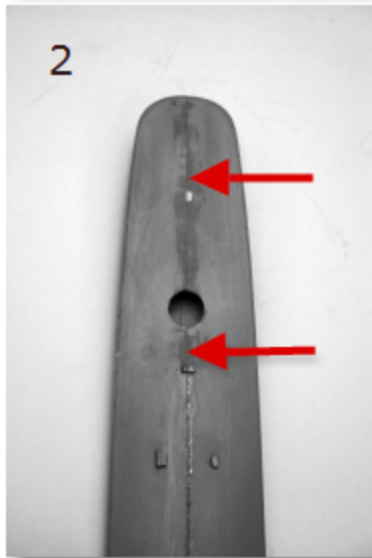
AND AS ALWAYS , SAFETY FIRST . PLEASE DO NOT FORGET TO USE PROTECTIVE GOGGLES WHEN WORKING WITH EMERY CUT OFF WHEELS OR WITH GLUES AND PAINTS.

ENJOY !

TEHNOART TEAM



1, 2, 3 PLEASE USE PUTTY AND SANDPAPER TO MAKE SMOOTH TRANSITION ON HULL SURFACE ALONG HULL HALVES CONNECTION SEAM .

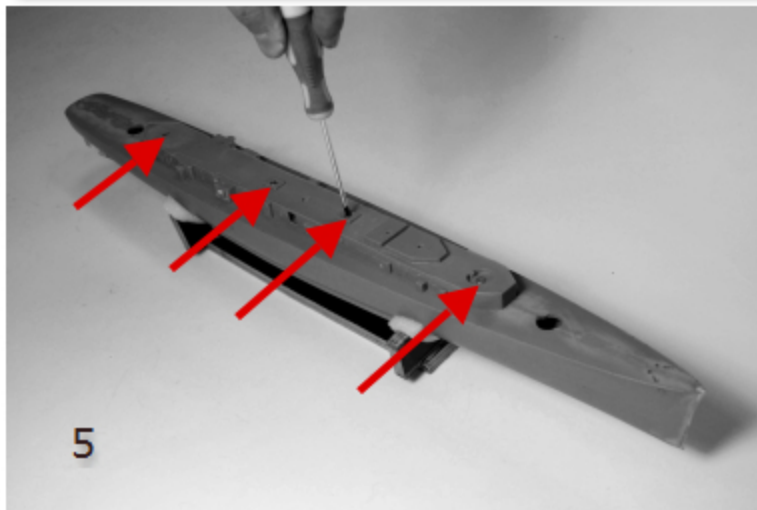


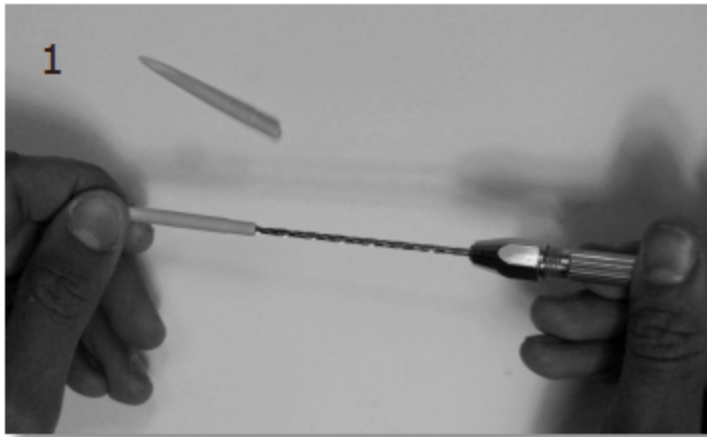
4, 5 ADJUST SUPERSTRUCTURE (PART S17) TO DECK USING SANDPAPER . DRILL FOUR 3MM HOLES IN THE SUPERSTRUCTURE TO PASS MOUNTING SCREWS . POSITION SUPERSTRUCTURE ON DECK (SYMMETRICALLY BY DECK WIDTH) AND DRILL FOUR 1.7 MM HOLES IN THE UPPER DECK BELOW THROUGH THE GUIDING HOLES IN SUPERSTRUCTURE ABOVE.

SECURE THE SUPERSTRUCTURE TO DECK WITH 15MM ASSEMBLY SCREWS .

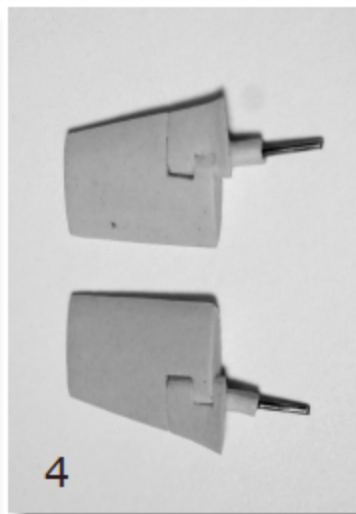
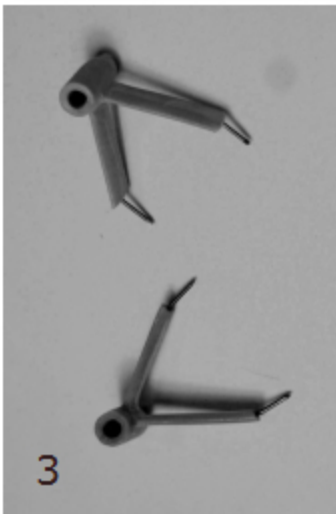
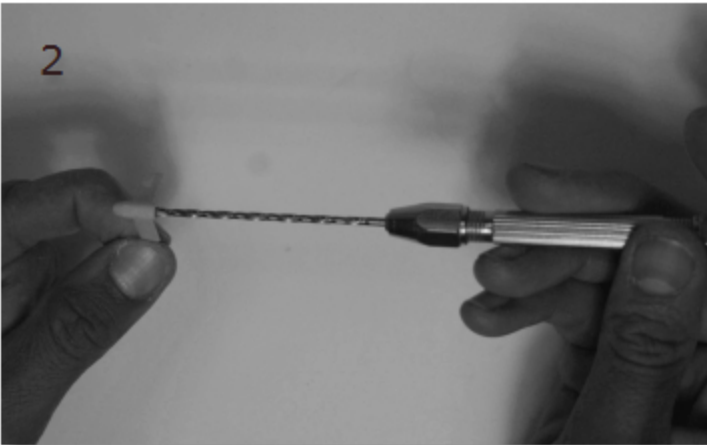
DO NOT OVERTIGHTEN SCREWS TO AVOID SUPERSTRUCTURE DEFORMATION BEYOND ITS STRENGTH .

NOW YOU HAVE SUPERSTRUCTURE PRE ADJUSTED , AND IT CAN BE RELEASED BEFORE FINAL ASSEMBLY STAGE ARRIVES.





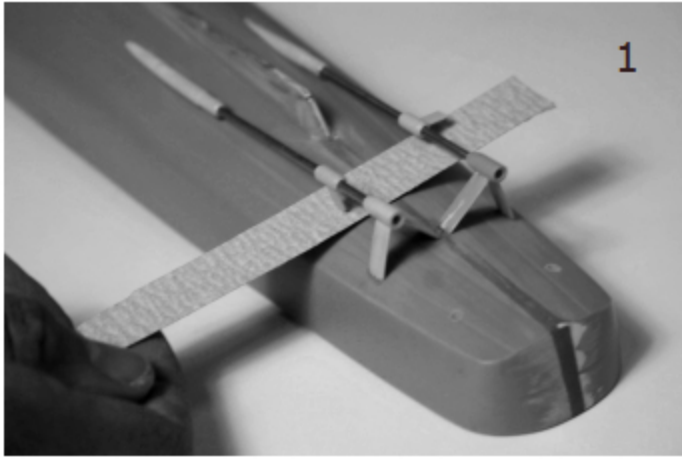
1, 2 RUDDER AND PROPELER SHAFTS INSTALLATION. PRE DRILL PROPELLOR SHAFT STRUTS (H21, H22, H23) AND SHAFT BOSSINGS (H24, H25) WITH 2 MM DRILL . ON REAL SHIP PROPELLER SHAFTS STOOD AT DIFFERENT ANGLES TO THE HULL , SO THEIR LENGTH IS DIFFERENT .



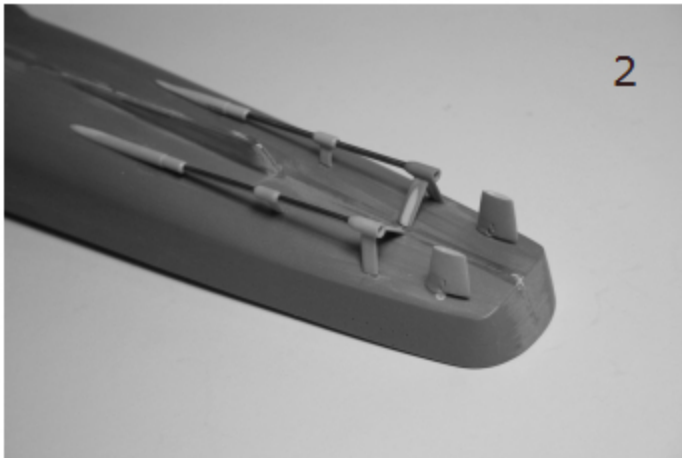
3, 4 FOR BETTER ATTACHMENT TO THE HULL YOU CAN MAKE 0.5-0.7 MM DIAMETER WIRE PINS FIT INTO SHAFT STRUTS (H21, H22 PICTURE 3) , AND RUDDERS (H18, H19 PICTURE 4) .



5 WHEN ATTACHING THE PROPELLER SHAFTS , MAKE SURE SMALLER STRUTS (H23) ARE PUT ON SHAFT , WITHOUT GLUE FOR THE MOMENT .



1 AFTER PARTS H21, H22, H24, H25 ARE FIXED WITH GLUE , TURN THE SMALLER STRUT TO HULL , AND ADJUST ITS LEG FITTING THE HULL PROPERLY BY USING SANDPAPER .



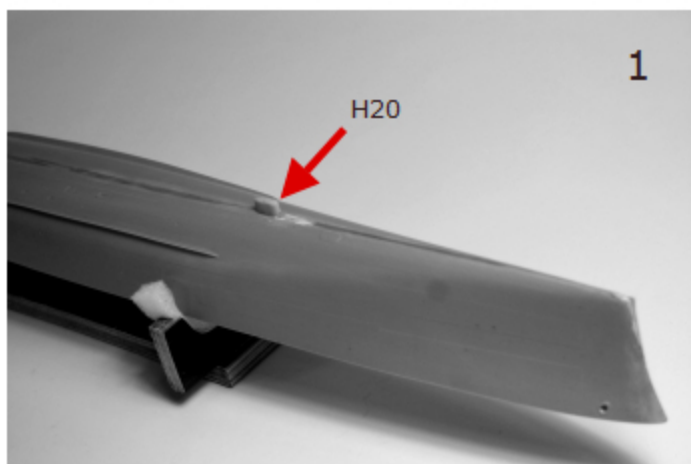
2 THIS WAY NICE ADJUSTMENT CAN BE ACHIEVED . SECURE NOW THE SMALLER STRUTS WITH GLUE. FIT RUDDERS INTO HOLES AND FIX THEM WITH GLUE. THIN , PENETRATING SUPER GLUE IS RECOMMENDED .



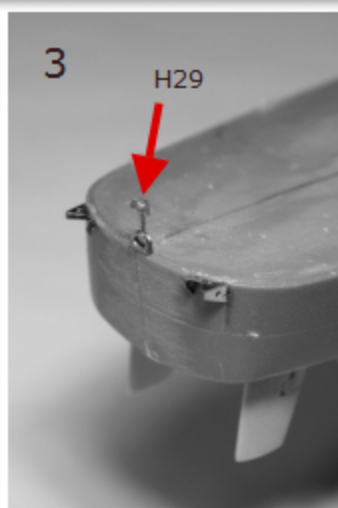
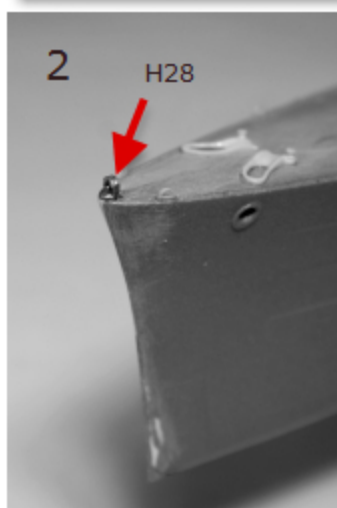
3 FOR DRILLING THROUGH ANCHOR CHAIN PIPES YOU WILL NEED 1,7-1,8 MM. DRILL .



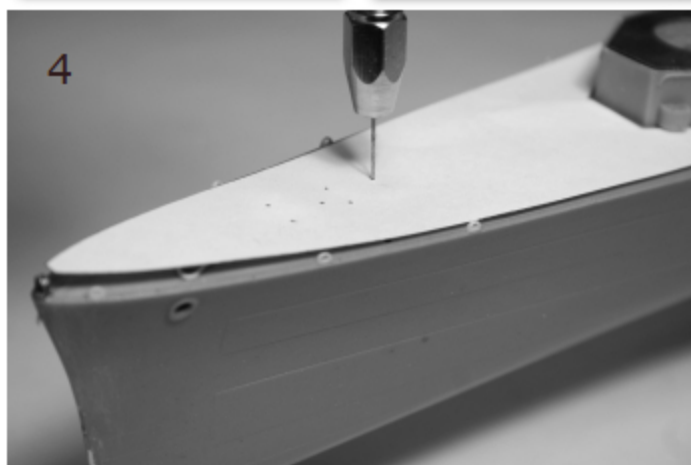
4 ATTACH THE DECK ANCHOR CHAIN LIPS WITH GLUE (H26, H27). CHECK THE ANCHOR FITTING IN TO ITS PLACE.



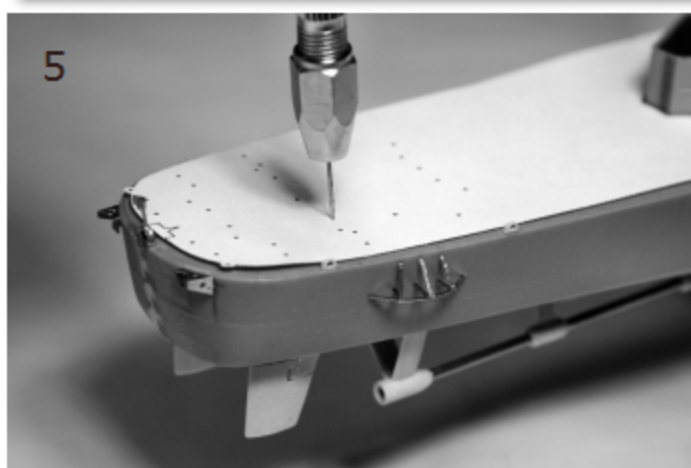
1 ATTACH WITH GLUE THE SONAR DOME (H20).



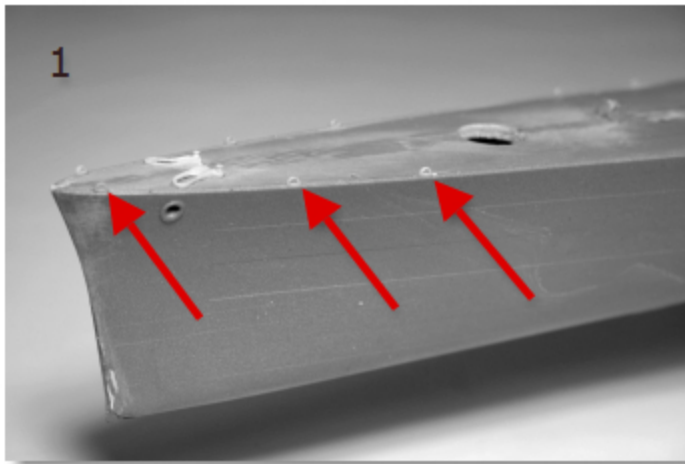
2, 3 DRILL THE DECK AND FIX WITH GLUE FORE AND AFT CHOCKS (H28, H29).



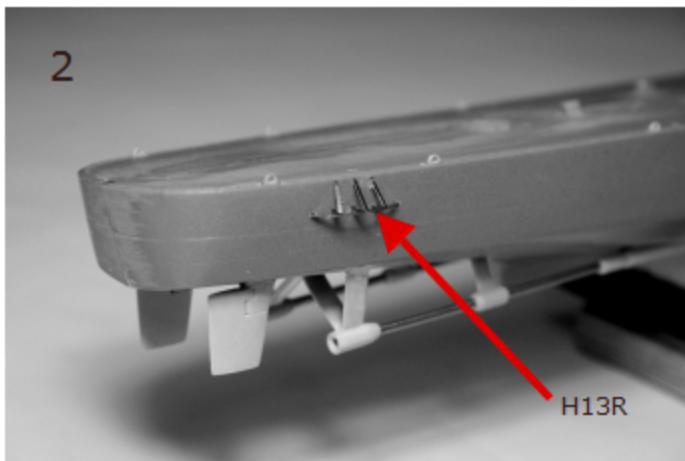
4, 5 PRE DRILL HOLES IN DECK FOR FURTHER FITTINGS INSTALLATION , USING SUPPLIED PAPER GUIDE .



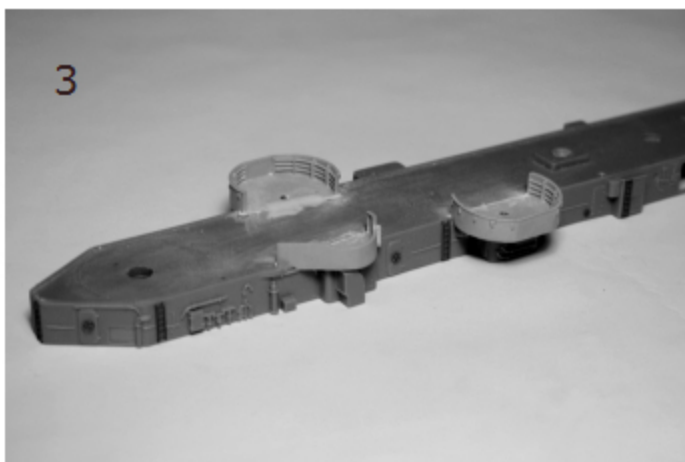
PUT THE PAPER GUIDES ON DECK , FIX WITH TAPE , MAKE DRILLING MARKS BY PRESSING WITH AWL OR OTHER SHARP OBJECT . DRILL .



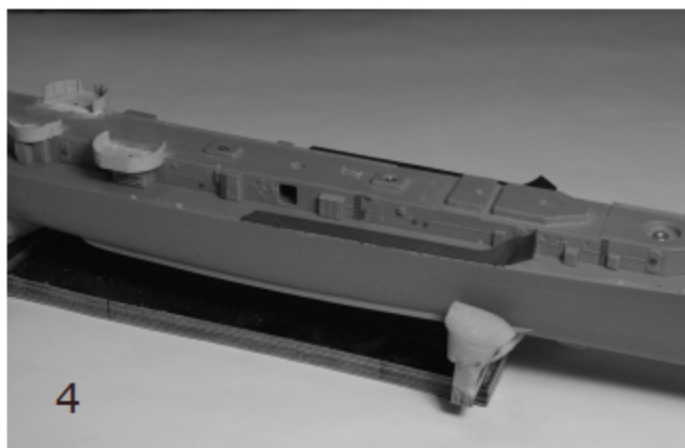
1, 2 FIX WITH GLUE SMALL
CHOCKS
(PART. H59, 20 PIECES)



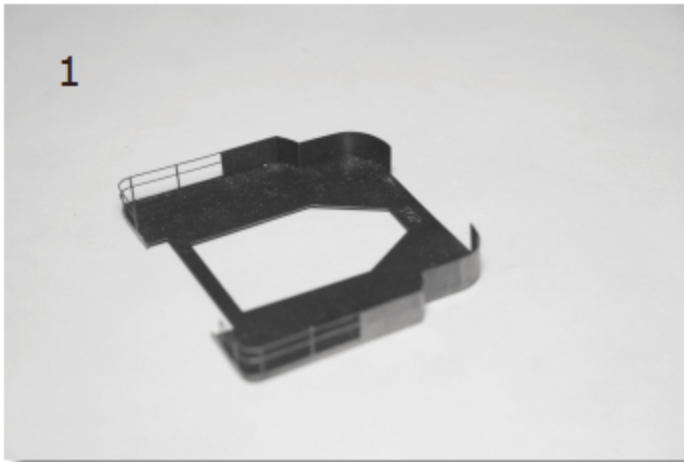
2 ATTACH WITH GLUE THE SIDE
PROPELLER GUARDS ON ITS
PINS INTO HOLES PREDRILLED
FOR THEM IN THE HULL (PARTS .
H13L/H13R)



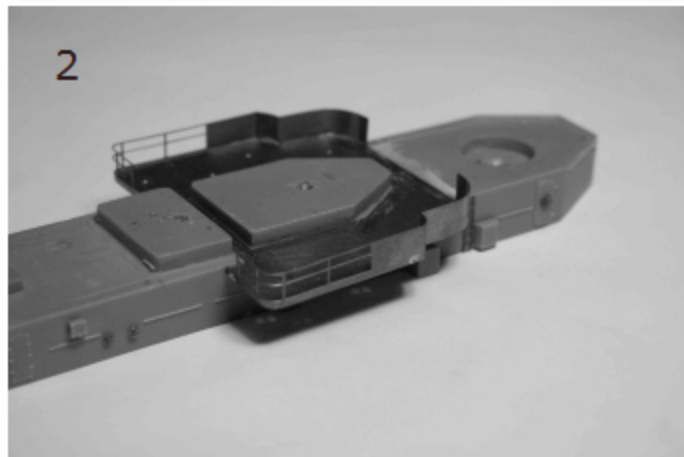
3 ADJUST AND GLUE INTO PLACE
THE ANTI AIRCRAFT GUN TUBS
(S18, S19, S20)



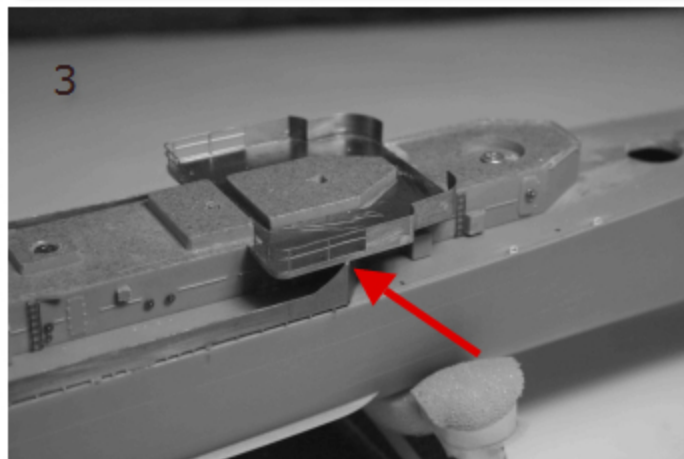
4 BULWARK INSTALLATION (PART H1L/H1R).
PUT THE BULWARK NEXT TO ITS LOCATION
(AREAS WITH ABSENT WATERWAYS ON DECK
EDGE) MARK THE DRILLING POINTS WITH PENCIL
OR AWL .
THE FORWARD ENDS OF THE BULWARKS BEND
TO MEET THE SUPERSTRUCTURE .
BULWARKS MUST STAND IN VERTICAL
POSITION . TO ACHIEVE THIS , THE LOWER EDGE
OF FORWARD BENT END OF BULWARK MAY NEED
ADJUSTMENT TO DECK BY MEDIUM SANDING PAPER
DICK ON ROTARY TOOL OR MANUALLY .
DRILL THE HOLES FOR BULWARK LEGS AT
APPROXIMATELY 45 DEGREES ANGLE TO DECK OR
SHIP SIDE . BEND THE BULWARK LEGS TO MEET
THIS ANGLE ACCORDINGLY .
THE BULWARK SHOULD FIT ON DECK EDGE
UNTILL THE LEG PINS FIT INTO HOLES TILL THEIR
WIDER PARTS .
PLACES WHERE THE LEGS DO NOT FIT IN
TIGHTLY TO DECK , CAN BE COVERED WITH PUTTY
OR THIN PLASTIC STRIPS AS ADJUSTMENTS .



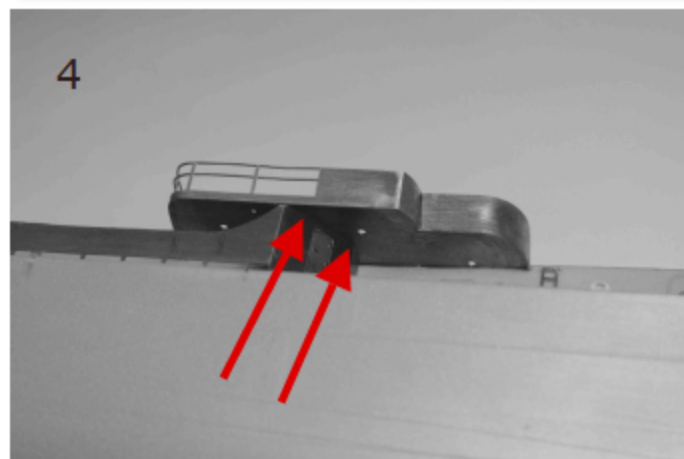
1 BEND AND GLUE TOGETHER SUPERSTRUCTURE DECK PLATFORM (PART. S1, S2L, S2R)



2 GLUE PLATFORM TO SUPERSTRUCTURE

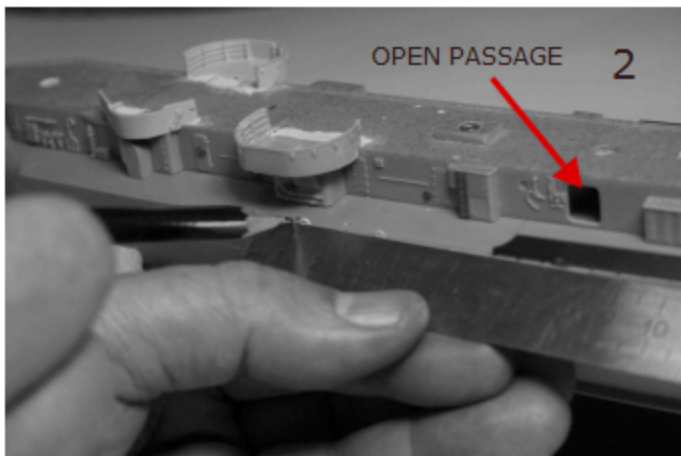


3, 4 ADJUST UPPER EDGE OF BULWARK ENDS TO FIT TO PLATFORM ABOVE .
GLUE DOORS (PART H1A/H1B) TO ITS PLACES ON BULWARK END BULKHEAD .



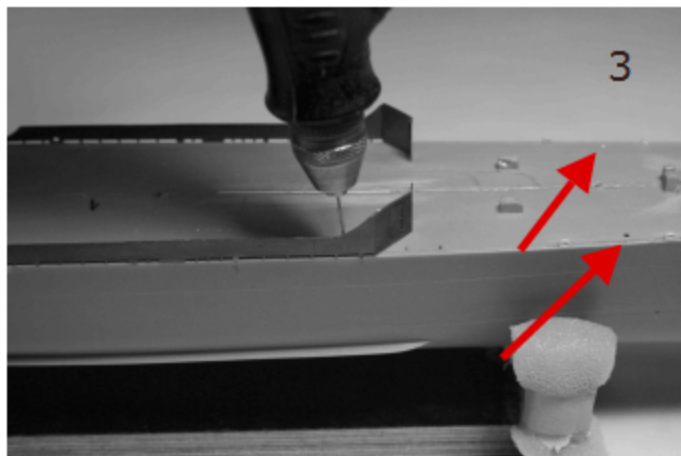


1,2 ATTACH THE SUPERSTRUCTURE FOR THE MOMENT , AND REFERRING TO SHIPE SIDE VIEW PLAN , AND ACTUAL LOCATION OF SUPERSTRUCTURE DECK PLATFORM , MARK PILLARS LOCATION WITH SHARP PENCIL .



2 SUPERSTRUCTURE HAS OPEN PASSAGE , WHICH HAS WINCH INSIDE .

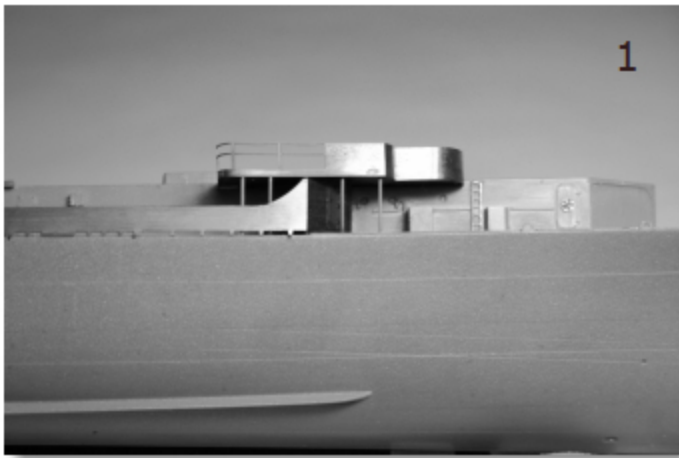
TAKE CARE TO FIT THE WINCH , BEFORE FINALLY ATTACHING THE SUPERSTRUCTURE ON LATER STAGES. REFER TO DECK VIEW PLAN.



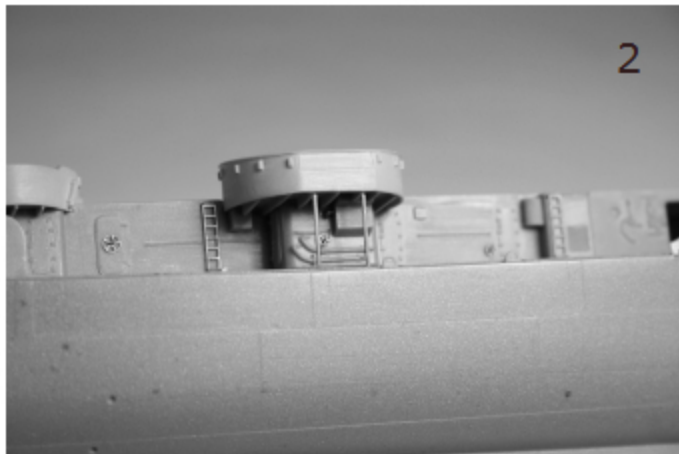
3 REMOVE THE SUPERSTRUCTURE AND DRILL HOLES FOR PILLARS TO BE MADE OF 0.5-0.6 MM DIAMETER BRASS WIRE . REFERRING TO ASSEMBLY PLAN , DRILL THE HOLES FOR MOUNTING BOLLARDS (10 PIECES , SMALL AND BIG) .



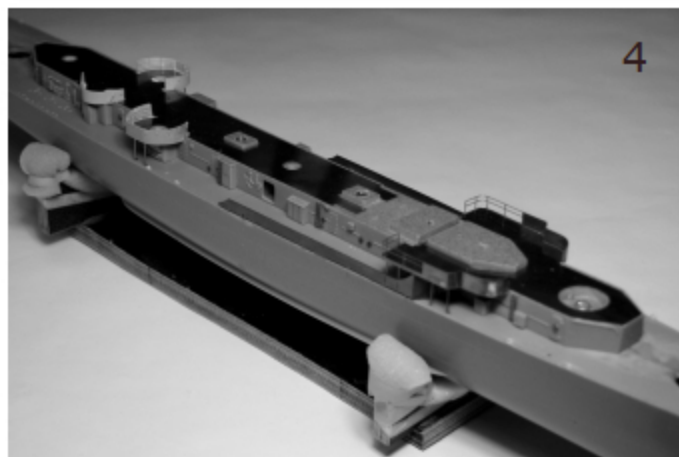
4 CUT THE PILLARS TOP ENDS TO FIT TO SUPERSTRUCTURE DECK PLATFORM ABOVE.

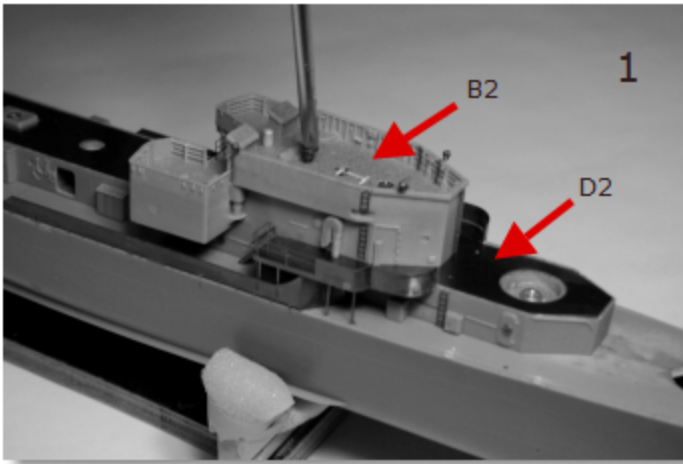


1, 2 PILLARS AT THEIR FINAL LOCATION .



3, 4 ADJUST WITH SANDING OR EMERY DISK FORWARD AND AFT SUPERSTRUCTURE DECK COVERS (PARTS D1, D2) . THE DECK COVERS SHOULD BE EASILY PLACEABLE ON THEIR POSITIONS ON SUPERSTRUCTURE DECK .

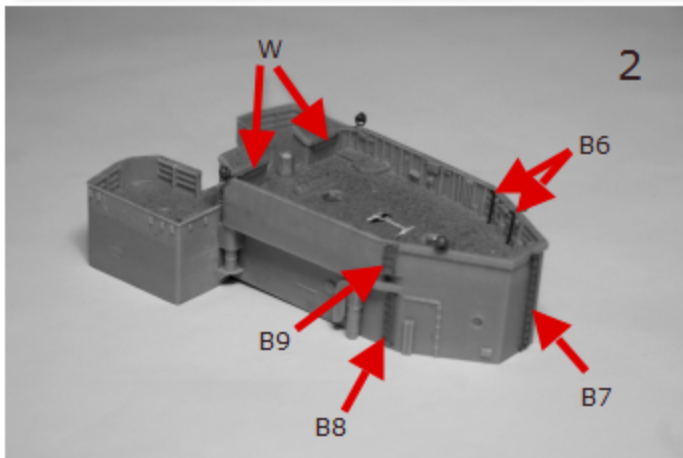




1 ADJUST NAVIGATING BRIDGE (B2) TO SUPERSTRUCTURE .

PUT THE DECK COVER (D2) UNDER THE BRIDGE

MAKE TWO 3 MM HOLES IN BRIDGE DECK AND TWO 1.7 MM HOLES IN SUPERSTRUCTURE DECK DIRECTLY BELOW FOR CONNECTING BRIDGE TO SUPERSTRUCTURE DECK WITH TWO 25MM ASSEMBLY SCREWS .



2, 3 ATTACH TO BRIDGE VERTICAL LADDERS (PARTS B7, B8, B9) AND TWO ANGLED LADDERS ON BACK SIDE

(PART B), WIRE BRACKET

(W) TO FLAG BOXES (0.4 MM STEEL WIRE , WHICH WILL HAVE SIGNAL HALYARDS TIED TO IT),

4 VOICE PIPES (PART B6 , 0.4 MM BRASS WIRE) ,

LOUDSPEAKERS (PART S39),

BACK RAILING (B1),

4 SIGNAL LAMPS (PART B4).

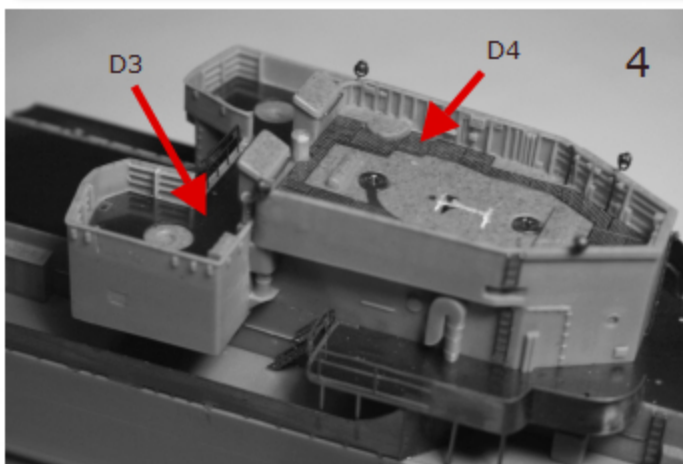
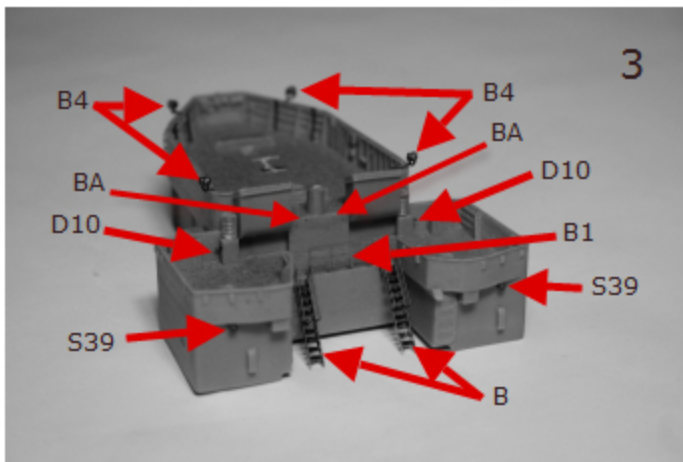
4 HOLES MUST BE PRE DRILLED FOR TWO SHORT LADDERS BEHIND THE

MAST (PART . BA) . THE LADDERS MUST BE INSTALLED ON THEIR PINS INTO

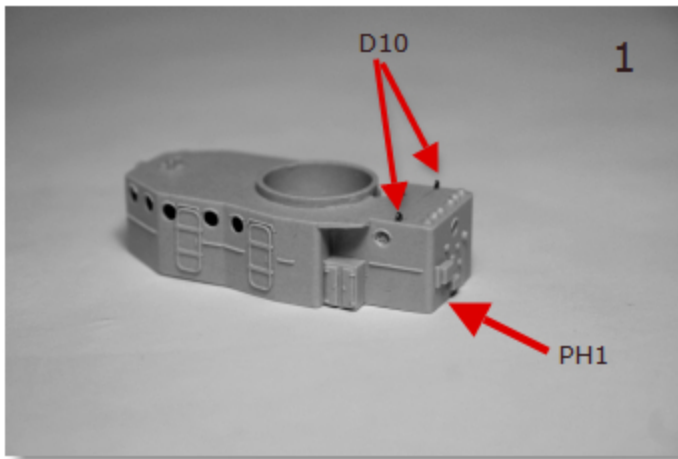
THESE HOLES AFTER ALL PARTS ARE PAINTED.

2 HOLES MUST BE PRE DRILLED FOR EYEBOLTS THAT SHOULD HOLD MAST STAYS (PART . D10) .

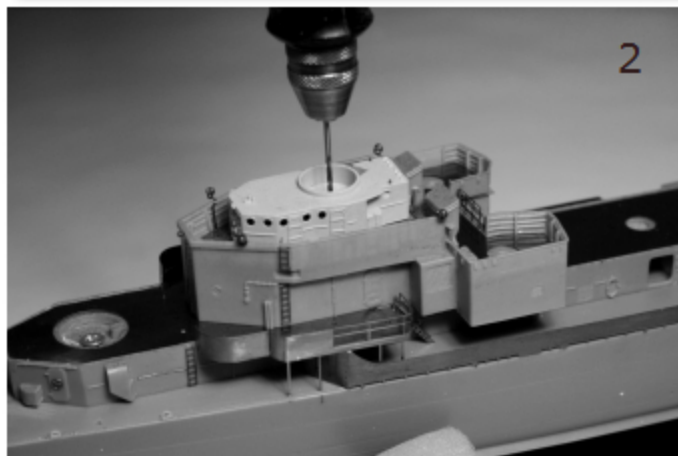
2 HOLES MUST BE PRE DRILLED FOR EYEBOLTS THAT SHOULD HOLD MAST STAYS (PART . D10) .



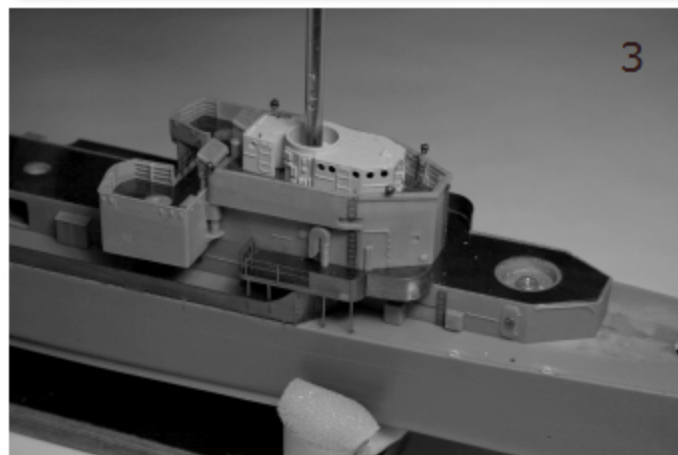
4 ADJUST NAVIGATING BRIDGE GRATING DECK COVER (D4) AND BOFORS GUN NESTS DECK COVER (D3) WITH SAND DISK TO FIT IN THEIR PLACES EASILY.



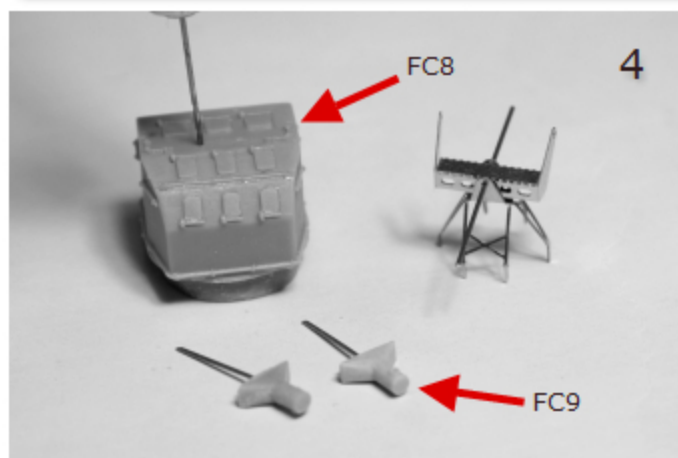
1 PILOT HOUSE (PH1) IN ITS FORE PART HAS PORTHOLES THAT NEED TO BE DEBURRED BY USING FINE , ROUND SHAPE FILE (BEWARE ; USING DRILL BIT FOR DEBURRING PORTHOLE WILL RESULT IN DAMAGE TO PORTHOLE ROUND RIM)
 DRILL AND FIT ON SUPER GLUE TWO EYEBOLTS ON PILOT HOUSE ROOF (PART D10) .



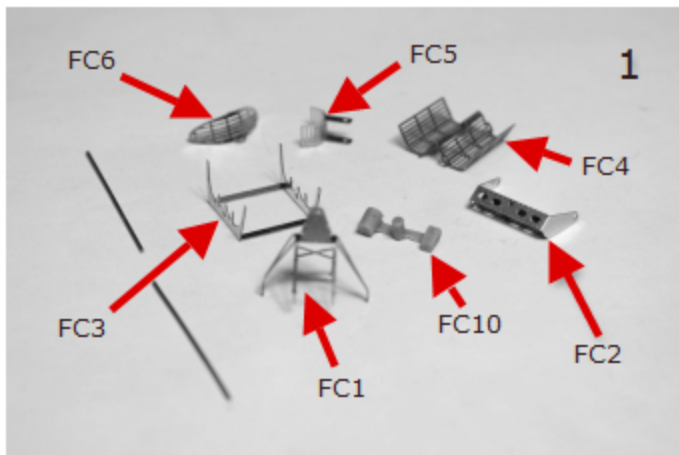
2 MAKE 3MM HOLE IN PILOT HOUSE ROOF AND 1.7 MM HOLE IN BRIDGE DECK BELOW FOR CONNECTION WITH FOR 15MM ASSEMBLY SCREW



3 TEST MOUNTING OF PILOT HOUSE

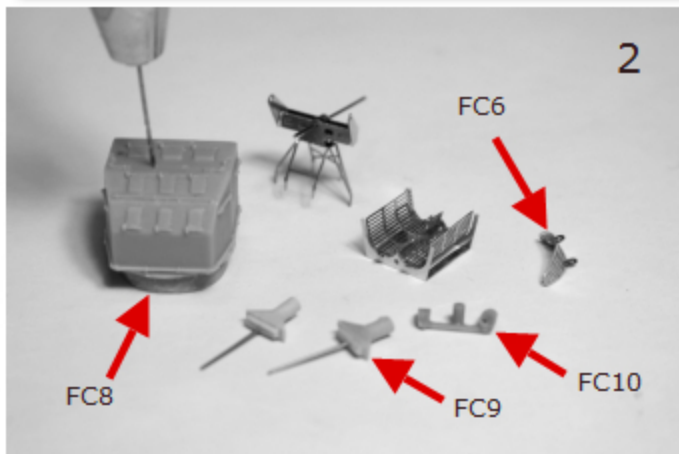


4 PRE DRILL MARKS ON MK37 DIRECTOR (FC8) ROOF , FOR FITTING RADAR MOUNT LEG PINS (APPROX. 0.5 MM DRILL) .
 FIT SOME 0.6 MM WIRES INTO RANGE FINDER ARMS (FC9) .
 THEY WILL SERVE TO HOLD THESE PARTS FOR PAINTING THEM.



MK37 DIRECTOR ASSEMBLY (PART FC8).

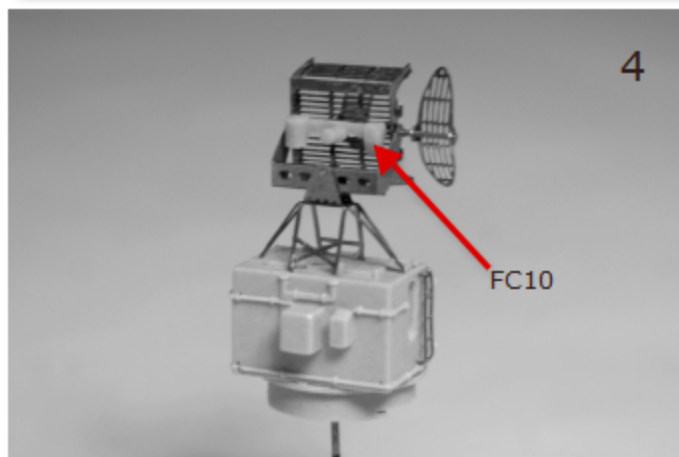
RANGE FINDER ARMS (FC9) HAD CANVAS COVER , WHICH SHOULD BE PAINTED IN SUITABLE LIGHT TO MEDIUM GRAY COLOR .

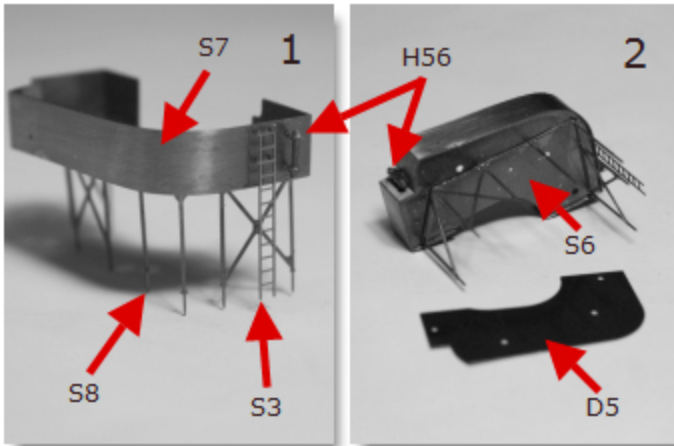


PARTS FC1 AND FC2 ARE CONNECTED ON 0.5 MM DIAMETER WIRE PIN.

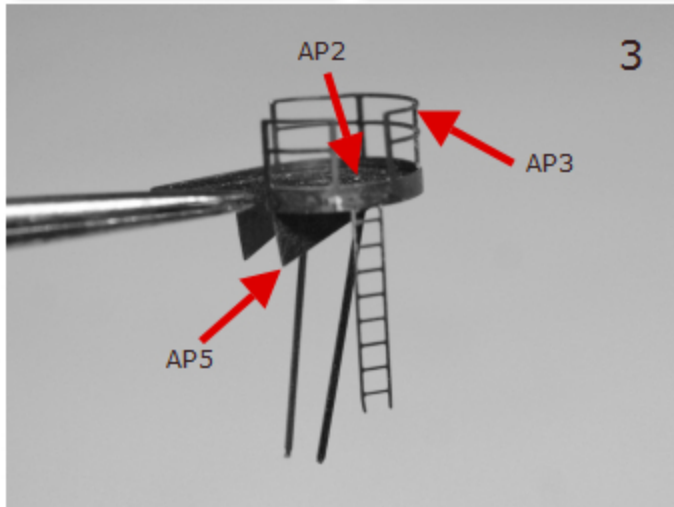
PARTS FC2 , FC3 , FC5 AND EVENTUALLY FC6 ARE CONNECTED BY ANOTHER WIRE PIN .

ALL FIXED WITH SUPER GLUE . PART FC10 FITS ON BACK SIDE OF THE RADAR .

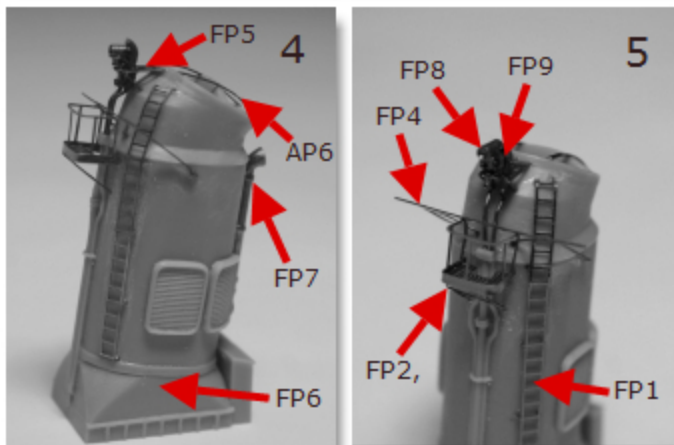




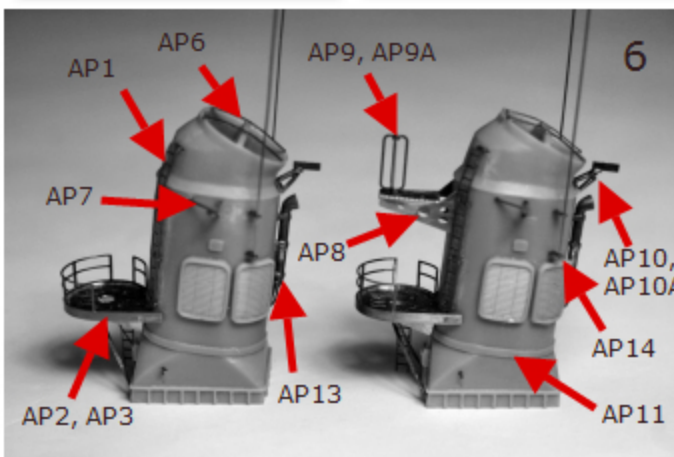
1, 2 20 MM GUN PLATFORM
AROUND SECOND SMOKE STACK
ASSEMBLY (PARTS S6, S7, S8, S3,
H56)
ADJUST WITH SANDING DISK
PLATFORM DECK COVER (PART
D5).



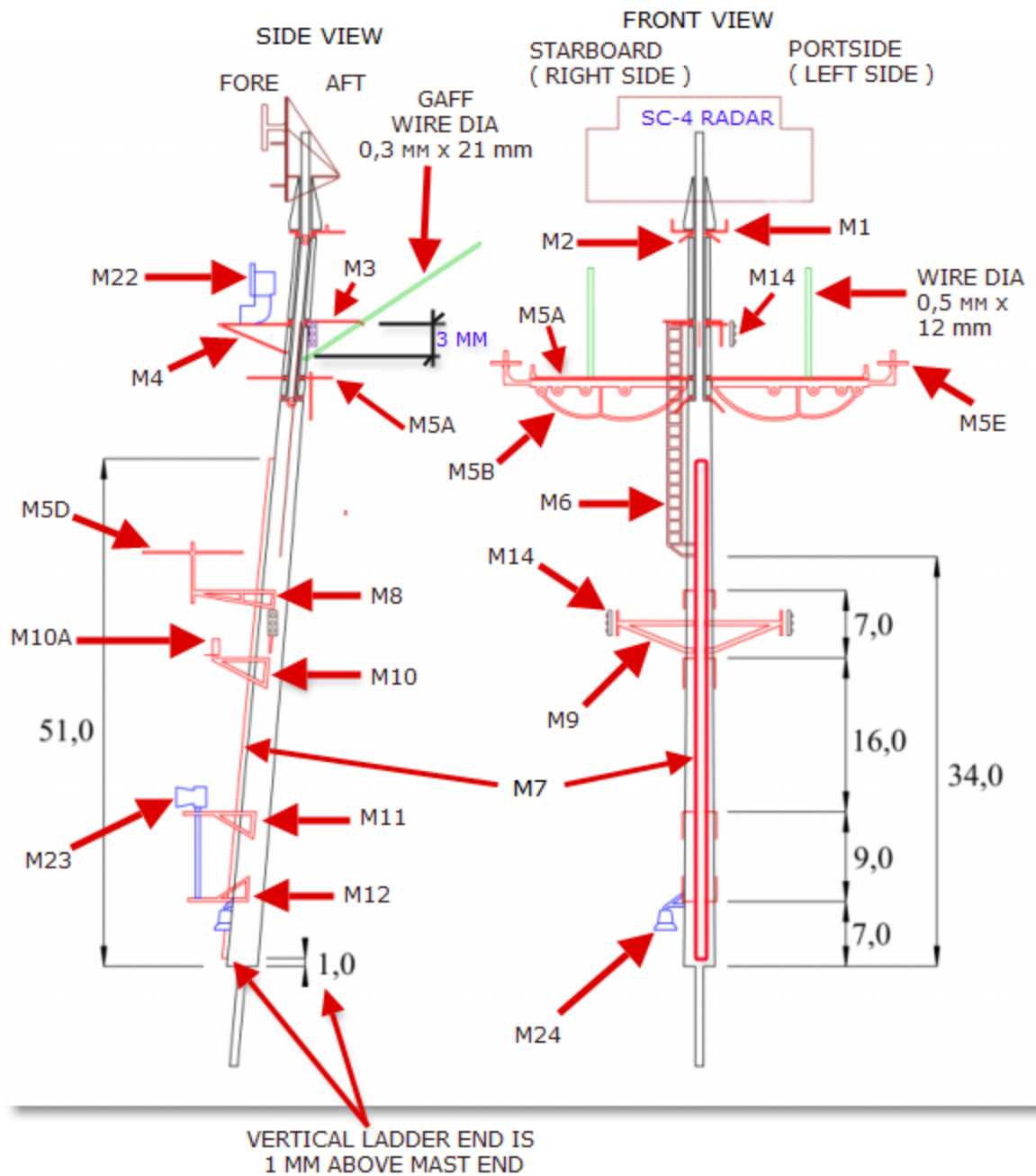
3 SEARCHLIGHT PLATFORM
ASSEMBLY (PARTS AP2, AP3,
AP5).
PLATFORM KNEE PINS SHOULD
BE CUT FLUSH WITH PLATFORM
DECK AFTER GLUE IS DRY , SO
THAT LATER ON , AFTER BEING
PAINTED , PLATFORM DECK
COVER (PART D6) CAN BE
GLUED IN ITS PLACE .



4,5 ATTACH TO FIRST SMOKE
STACK (PART FP6) LADDER
(FP1), WHISTLE PLATFORM (FP2,
FP3), STEAM PIPE (FP7),
WHISTLE AND SIREN UNIT (FP5,
FP8, FP9), AND ANTENNA
BRACKET (FP4) .
TWO BRACES (AP6) ARE FIT ON
GLUE IN SMOKE STACK TOP
DRILL MARKINGS LOCATIONS .



6 ATTACH TO SECOND SMOKE STACK
(PART AP11) : LADDER (AP1), SEARCHLIGHT
PLATFORM (AP2, AP3, AP5) STEAM PIPE
(AP13), SPEED LIGHT (AP10, AP10A),
ANTENNAE BRACKETS (AP7, AP14).
DD 727 HAS DAK ANTENNA ON BRACKET
(AP8, AP9, AP9A)
DD 723 DID NOT HAVE DAK ANTENNA .
FIT SMOKE STACK TOP BRACES (AP6) SAME
AS ON FIRST SMOKE STACK .
WHIP ANTENNA : FIT 0.3 MM DIA , 40MM
LONG , TWO STEEL WIRES IN BRACKETS
AP14 . FIX THEM WITH SUPER GLUE .
THERE ARE LOCATION MARKINGS FOR
BRACKETS ON THE SMOKE STACK .



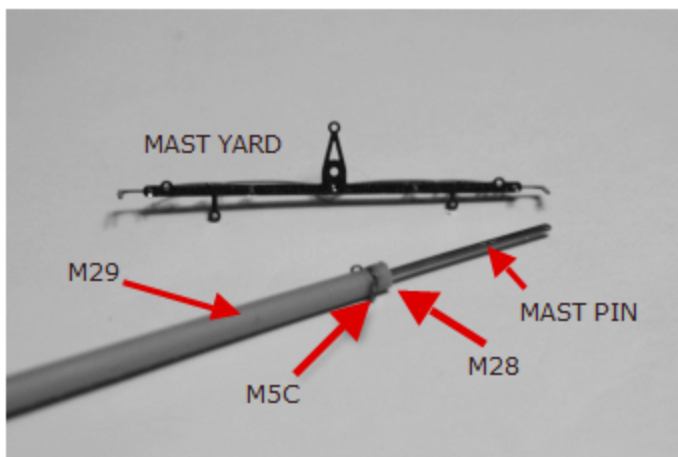
OVERALL MAST DIAGRAM

THE MAST IS MADE OF RESIN WITH STEEL WIRE PIN MOLDED INTO IT FOR MAKING IT STRONG.

KEEP THIS IN MIND WHEN MAST IS DRILLED FOR ATTACHING OTHER PARTS TO IT, TO AVOID BREAKING DRILL OR RESIN BODY OF MAST .

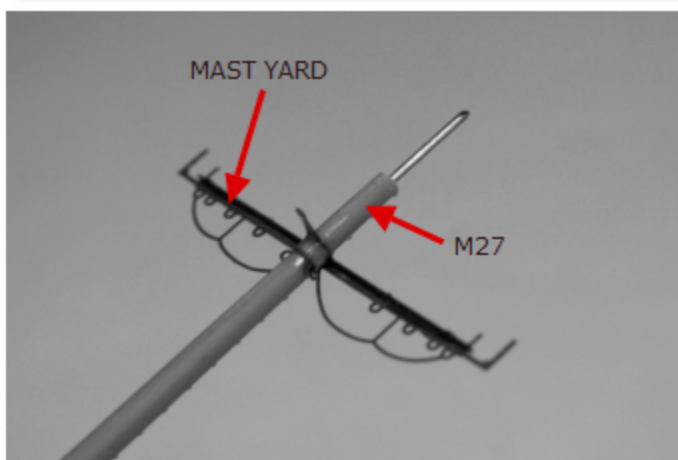
THE CABLE SIMULATION RELIEF ON THE MAST SHOULD FACE DIRECTLY AFT ON THE SHIP.

USE THIS DIAGRAM FOR BUILDING MAST , AS DESCRIBED IN NEXT 2 PAGES



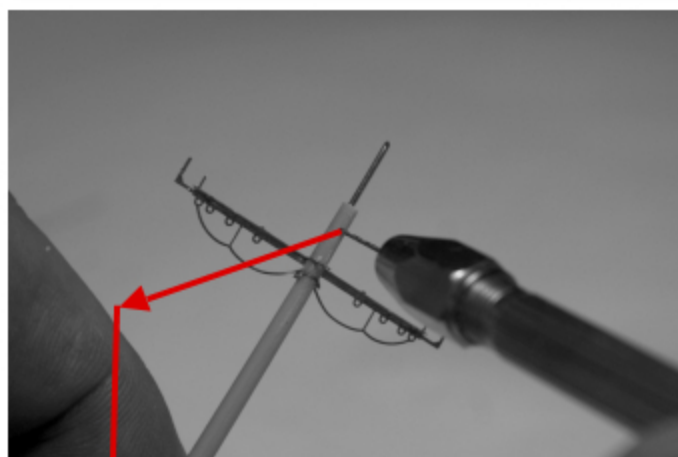
1 MAST ORIENTATION : CABLE RELIEF MOLDING - AFT , OPPOSITE TO CABLE MOLDING - FRONT , PERPENDICULAR TO FRONT- AFT ARE SHIP SIDES .

PUT ON MAST (PART M29) PIN RING M5C WITH 4 EYEBOLTS.
TWO EYEBOLTS ON EACH SIDE SHOULD FACE TWO SHIP SIDES RESPECTIVELY , AND BE BENT TOWARDS DECK EDGES , TO ACCOMODATE LATER MAST STAYS.
PUT ON TOP OF M5C RING RESIN PART M28.
ALL PARTS SHOULD BE DEBURRED TO CONNECT TIGHTLY TO FORM SINGLE MAST BODY .
FIX WITH THIN SUPER GLUE .



2 PUT MAST YARD (YARD CONSIST OF PARTS M5A , M5B - GLUED TOGETHER AT RIGHT ANGLE (90 DEGREES) ON TOP OF PART M28 .
THE YARD FACES AFT DIRECTION , SAME AS CABLE RELIEF MOLDING ON THE MAST .

NEXT PUT PART M27 AND FIX ON THIN SUPER GLUE .



SMALLER RADAR PLATFORM M4 FACES FORE WITH ITS SUPPORT LEG BENT BELOW AND FIT INTO MAST.

PUT PART M3 , FACING AFT , ON TOP OF M4 .
PART M3 HAS LADDER PEG THAT SHOULD FACE STARBOARD SIDE .
PART M3 , AFTERMOST END HAS EYE THAT SHOULD BE BENT A LITTLE TO HOLD GAFF WIRE AS SHOWN ON OVERALL MAST DIAGRAM.

LOWER END OF GAFF FITS INTO MAST 3 MM LOWER OF M3 BRACKET.
M3 ALSO HAS SIDE PLACES FOR M14 FIGHTING LIGHTS TO BE ATTACHED.

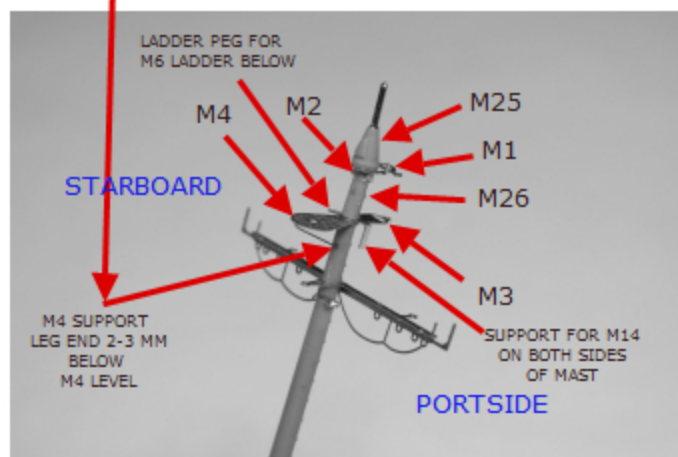
FIT M26 ON TOP OF M3. FIX WITH THIN SUPER GLUE .

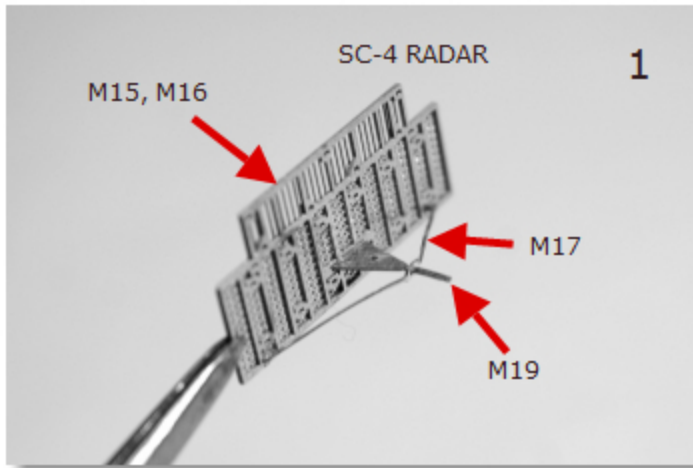
FIT M2 RING ON TOP OF M26 , WITH TWO EYEBOLTS FACING SHIP SIDES AND BENT TOWARDS DECK EDGES .

FIT M1 , FACING AFT , ON TOP OF M2
FIT PART M25 ON TOP OF M1 . FIX WITH THIN SUPER GLUE.

WIRE ABOVE M25 MUST BE LEFT 2 MM , AND CUT ABOVE WITH EMERY DISC
ON ROTARY TOOL (TOO STRONG FOR NIPPERS).

THIS 2 MM TIP WILL SERVE FOR FITTING SC-4 RADAR ON IT .





1

SC-4 RADAR

GLUE TOGETHER RADAR FRAME AND RADAR NET PARTS M15 AND M16 . FROM THE RADAR FRAME SIDE , FIT M19 AT RIGHT ANGLE . FIRST FIX M17 , THEN M18. THE TAIL OF M19 CAN BE CUT OFF , IT IS FOR HOLDING IT DURING ASSEMBLY.

FROM THE OPPOSITE SIDE , FIT IN PARTS M21 (12 PIECES) AND M18 (4 PIECES). FIT THE ASSEMBLED RADAR ON TOP OF MAST PIN.

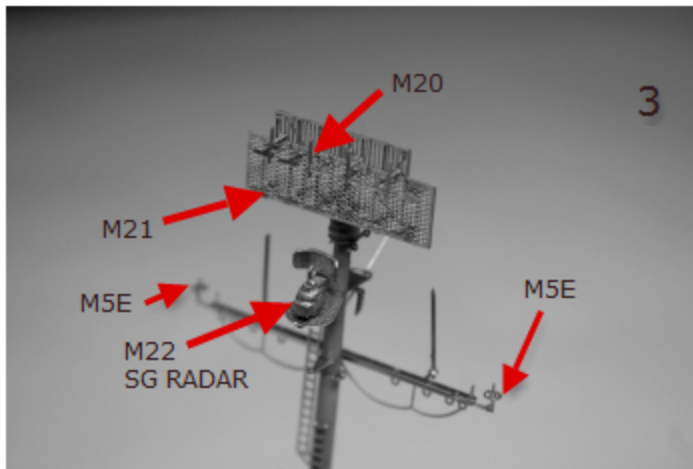
LOOKING AT PICTURE 2 BELOW AND OVERALL MAST DIAGRAM , ATTACH LADDER M6 UPPER END AT PART M3 SIDE PEG . LOWER PART OF LADDER CONNECTS ON ITS PIN AND SUPER GLUE INTO MAST . KEEP LADDER PARALLEL TO MAST AXIS.

FIT LADDER M7 ON FRONT SIDE OF MAST WITH ITS LOWER END 1 MM HIGHER THAN RESIN MAST END (AS SHOWN ON MAST DIAGRAM) . CUT LADDER SHORTER , TO SIZE AS DIMENSIONED ON MAST DIAGRAM .

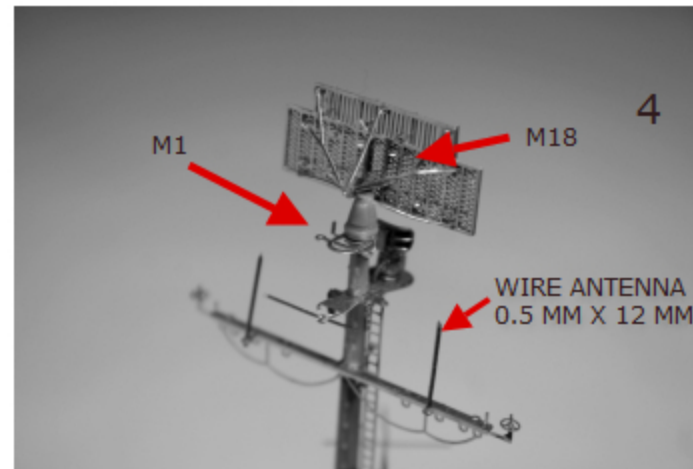
FOLLOWING MAST DIAGRAM DIMENSIONING , FIT ON MAST PARTS : M8 WITH M5D , M10 WITH M10A AND M12 , M11 WITH M23 .

FIT FIGHTING LIGHT BRACKETS M9 ON BOTH SIDES. FIT ON THEM THE LIGHTS M14 AND SAME LIGHTS ON PART M3 .

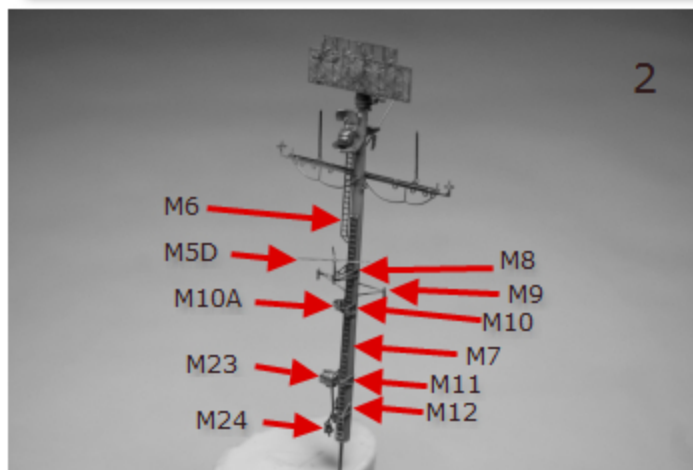
SHIP BELL M24 SHOULD BE ATTACHED AFTER OVERALL PAINTING , TO KEEP ITS NATURAL BRASS COLOR. OR IT CAN BE MASKED AND PAINTED ALL TOGETHER WITH MAST , SO THAT THE MASK IS REMOVED AFTER PAINTING.



3



4

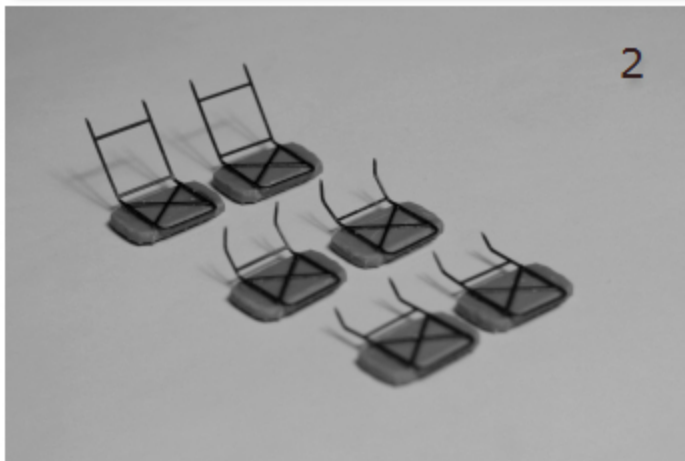


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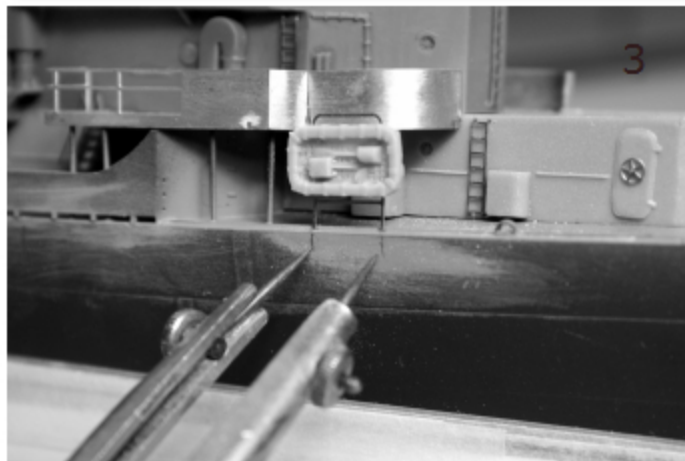
1

1 LIFERAFTS (H33)AND THEIR
STOWAGE FRAMES
(PARTS. H8A / H8B).



2

2 STOWAGE FRAMES HAVE PINS
WHICH MUST BE BENT TO HOLD
THE RAFTS .



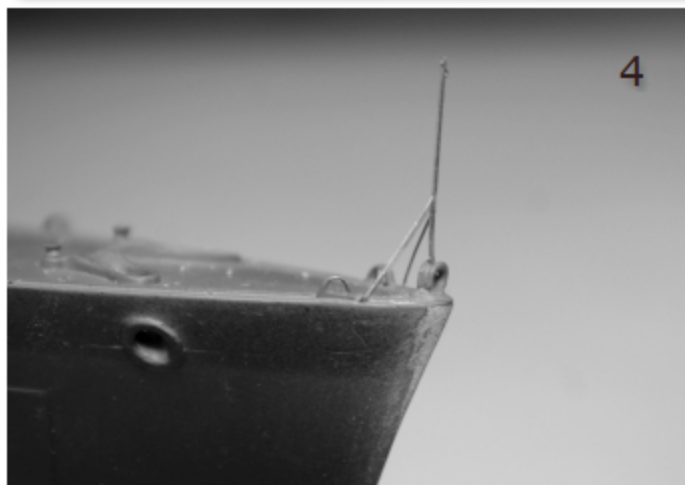
3

3 ATTACH THE SUPERSTRUCTURE TO
HULL .

REFERRING TO SHIP SIDE VIEW
AND MODEL PHOTOS , MARK THE
LOCATION OF LIFERAFT STOWAGE
FRAME LEGS ON SHIP DECK .

DRILL HOLES FOR RAFT FRAME
LEGS .

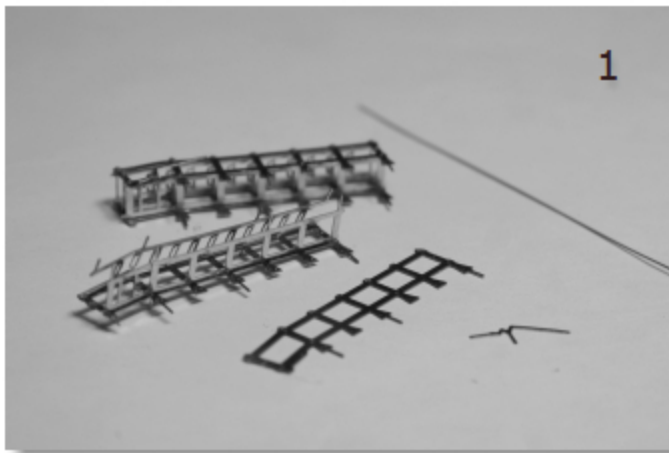
TEST MOUNT LIFERAFTRAFT FRAMES
, DISMOUNT AND PUT THEM ASIDE ,
TILL FINAL ASSEMBLY AFTER PAINTING .



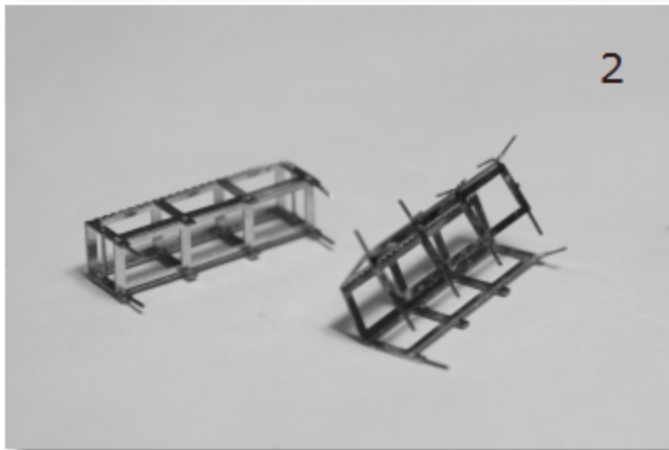
4

4 SIMILARLY FIND THE
LOCATION FOR FITTING FORE
JACK STAFF .

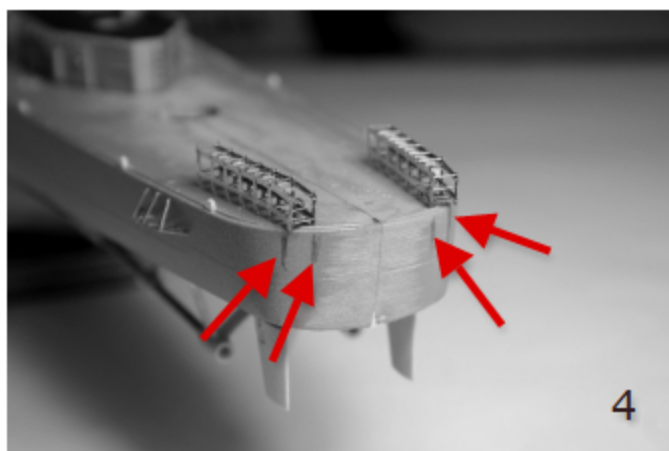
JACK STAFF ALSO SHOULD BE
FINALLY ATTACHED ONLY AFTER
PAINTING .



1 ASSEMBLE DEPTH CHARGE TRACK ON CONNECTING PINS AND THIN SUPER GLUE , PARTS : H5AL / H5AR, H5BL / H5BR, H5CL / H5CR, H5DL / H5DR, H6C .



2 ASSEMBLE SMALLER DEPTH CHARGE RACK FROM PARTS H6A, H6B .

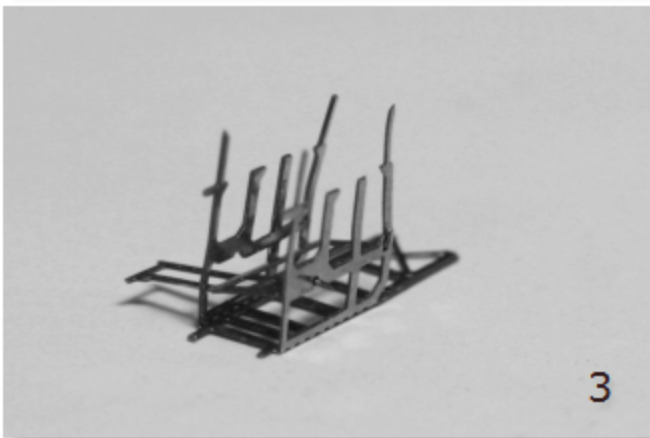
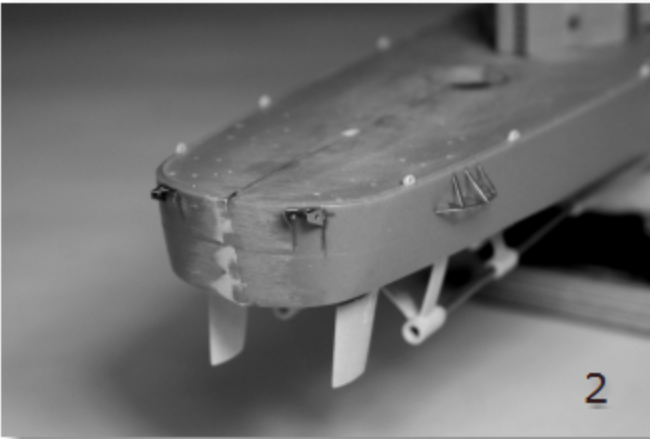


4 AFTER THE DECK WAS PRE DRILLED THROUGH PAPER STENCIL , FOR FITTING ON IT DECK FITTINGS , THE DEPTH CHARGE TRACK LEGS SHOULD FIND THEIR PLACES . FIT THEM WITHOUT GLUE , JUST TO MARK THE LOCATION FOR BRACKETS ON STERN AS SHOWN ON PICTURE 4.

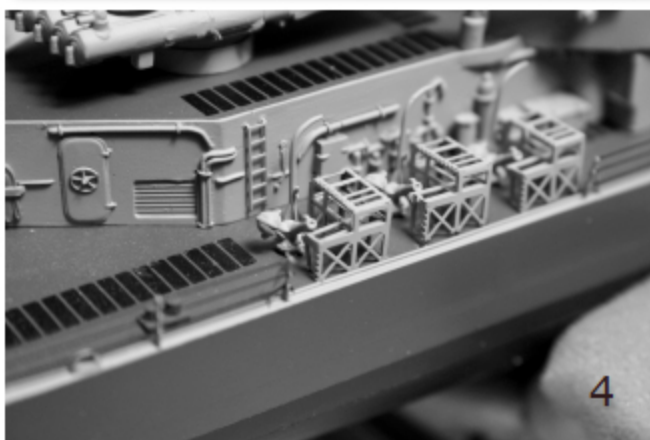
DEPTH CHARGE TRACKS ARE PAINTED SEPARATELY , AND FIT ON DECK ON LATE STAGE OF ASSEMBLY .



1, 2 DRILL AND FIT IN BRACKETS AT THE DEPTH CHARGE TRACK END PART H12 .

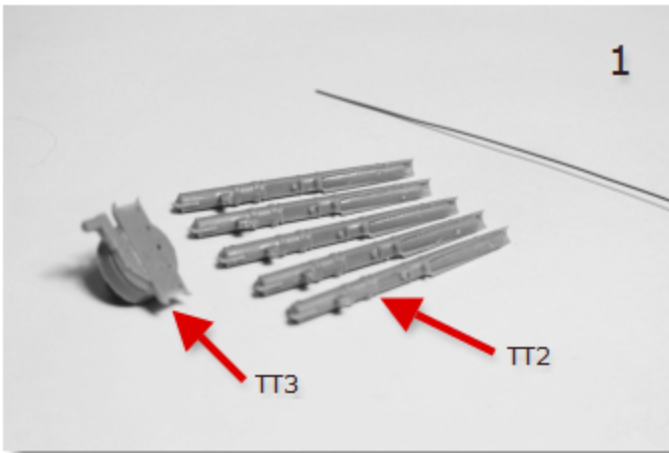


3 ASSEMBLE THE DEPTH CHARGE LOADER RACK FROM PARTS : H7AL / H7AR , H7BL / H7BR , H7C .

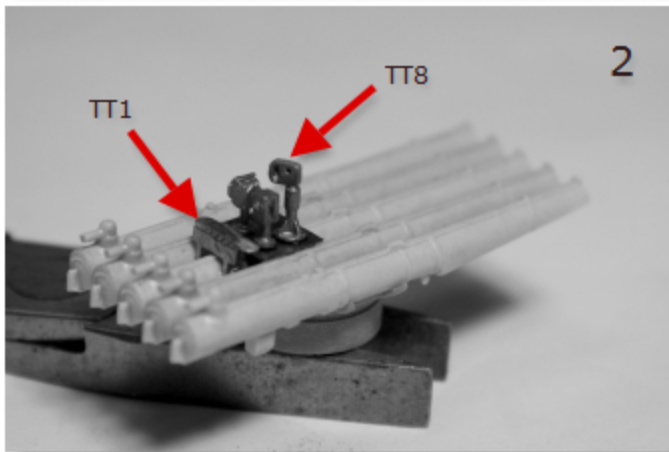


4 USING SUPPLIED PAPER STENCIL , PRE DRILL HOLES IN DECK FOR DEPTH CHARGE LOADER RACK INSTALLATION LEGS .

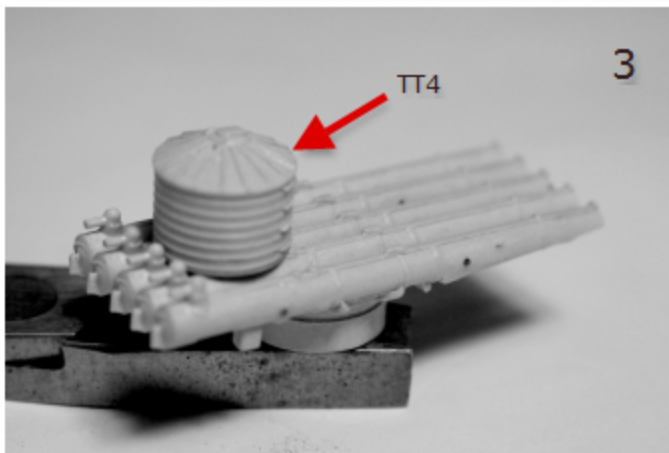
FINAL INSTALLATION OF LOADER RACKS NEAR K-GUNS AFTER SEPARATE PAINTING AND FINAL ASSEMBLY .



1 TORPEDO SET ASSEMBLY



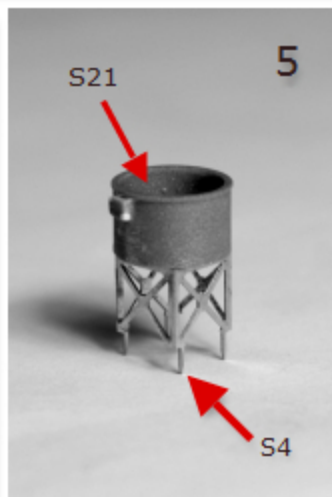
2 ASSEMBLED FORE TORPEDO SET.



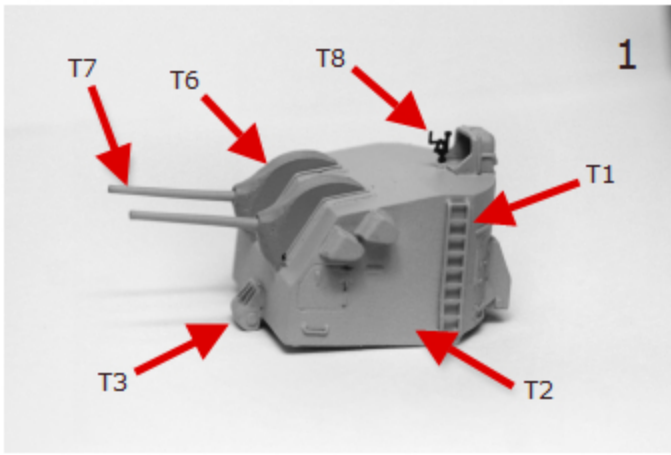
3 ASSEMBLED AFT TORPEDO SET .



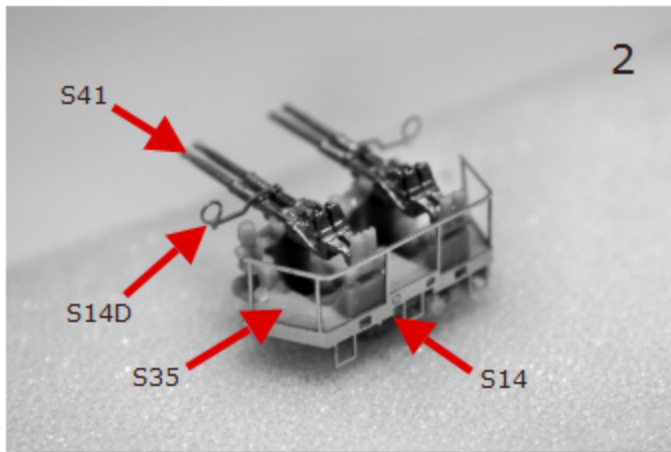
4 BEND TO SHAPE AFT DECK 20 MM GUNS TUB (PART H4) .



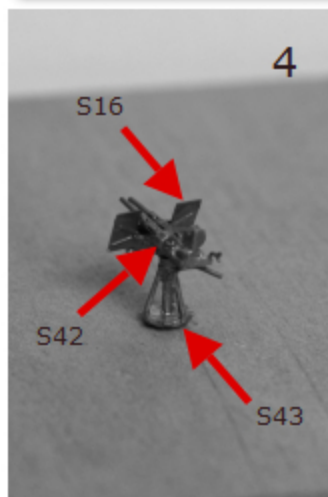
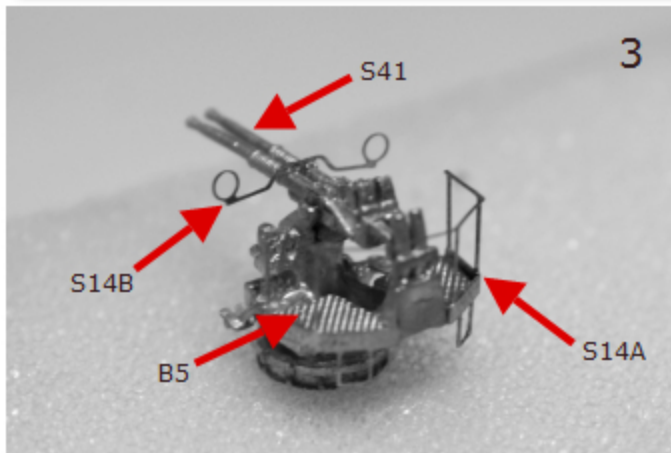
5 ASSEMBLE MK-51 40MM GUN DIRECTOR TUB : PART S4 AND S21 .



1 MAIN CALIBER , 5 INCH TWIN TURRET
 ATTACH LADDER TO LEFT SIDE (PART T1).
 ATTACH SEPARATELY PRE PAINTED GUN BARREL CANVAS (PART T6) AND BARRELS (PART T7) .



2 40 MM QUADRUPLE AND TWIN (PICTURE 3) BOFORS GUNS ARE PAINTED WHEN COMPLETELY ASSEMBLED.
 RECOIL SPRINGS AND CONICAL SPARK EXTINGUISHERS AT BARREL TIPS ARE PAINTED OVER WITH FINE BRUSH IN BLACK COLOR .



4, 5 20 MM TWIN AND SINGLE BARREL GUNS ARE PAINTED WHEN ASSEMBLED ALTOGETHER , AND THEN BARRELS IN BLACK COLOR WITH THIN BRUSH.

PAINTING

THERE CAN BE SEVERAL WAYS TO APPROACH PAINTING THE MODEL . SHIPS CARRIED VARIOUS CAMOUFLAGE PATTERNS , OR JUST ONE OR TWO COLOR PAINT SCHEMES .

OUR KIT FEATURES DD-727 DE HAVEN DESTROYER , WHICH CARRIED RATHER COMPLICATED THREE COLOR CAMOUFLAGE PATTERN . THIS IS VERY SPECTACULAR CAMOUFLAGE , BUT IT MAY BE COMPLICATED TO ACHIEVE FOR A BEGINNER .

THERE IS MORE SIMPLE PAINT SCHEME TO CHOOSE , AS FOR INSTANCE TWO COLOR DD-723 WALKER DESTROYER .

OR JUST SINGLE OCEAN GRAY COLOR , WHICH BOTH DESTROYERS CARRIED AT THE END OF WWII .

THE BEST WAY TO PAINT THE MODEL WOULD BE BY MEANS OF AIR BRUSH . HOWEVER THIS IS UP TO INDIVIDUAL CHOICE .

FOR BETTER PAINT ADHESION , IT IS RECOMMENDED TO WASH OR DEGREASE THE PARTS. AND THEN , FIRST APPLY PRIMER , TO REVEAL POSSIBLE DEFECTS ON SURFACE TO BE REMOVED WITH FINE SANDPAPER.

IT IS IMPORTANT TO HAVE AT HAND GOOD MASKING TAPE , WHICH DOESN'T LEAVE GLUE RESIDUE ON THE SURFACE AFTER BEING REMOVED , EVEN ON SECOND DAY.

IT IS BEST TO BEGIN PAINT WORKS BY PAINTING BLACK STRIP AT WATER LINE AREA , WHICH IS MARKED ON HULL WITH TWO FINE GROOVED LINES .

DULL BLACK COLOR FOR THIS PURPOSE MAY NOT LOOK GOOD IN THIS SCALE , SO , ADDING A BIT OF WHITE AND BROWN TO BASIC BLACK WOULD PRODUCE A BETTER RESULT , SOME VERY DARK GRAY.

AFTER BLACK WATER LINE AREA IS DRY , USUALLY NEXT DAY , IT IS BEING COVERED WITH SOME 4 MM WIDE MASKING TAPE . TAKE CARE TO MASK IT NICELY SO THAT UPPER AND LOWER LINES OF BLACK STRIP RUN PARALLEL WHEN YOU LOOK FROM SIDE .

SHIP SIDES ABOVE WATER LINE IT IS BEST NOW TO MASK WITH PAPER (USE CLEAN PAPER) TAPED TO MASKED BLACK STRIP , TO REVEAL JUST BELOW WATER LINE AREA FOR PAINTING IN DARK GRAY. AVOID USING TOO BRIGHT COLORS. LEAVE IT TO DRY.

WHEN THE BOTTOM IS DRY , REMOVE THE PAPER MASKING SHIP SIDE . WATER LINE MASKING SHOULD REMAIN IN PLACE. MASK NOW THE BELOW WATER LINE AREA , BY TAPING PAPER TO MASKED WATER LINE STRIP.

WE CAN KEEP THE LOWER MASKING PAPER IN PLACE , WHICH WILL SERVE TO PROTECT BOTTOM FROM SCRATCHING , WHILE WE WORK ON UPPER PART AND DECK INSTALLING RAILING STANCHIONS.

RAILING STANCHIONS ARE IN SUPPLIED ETCHING SHEET. PRIOR TO TAKING THEM OUT , TAKE A 0.3 MM DRILL , AND GO THROUGH HOLES IN STANCHIONS WITH THAT DRILL IN ROTARY TOOL , WHICH WILL DEBURR THE STANCHION HOLES FOR EASIER PASSING OF RAILING LINES .

DRILL HOLES FOR STANCHION LEGS IN THE UPPER DECK EDGE MARKS FOR THEM . DO NOT DRILL VERTICALLY , ESPECIALLY IN BOW AREA , AS THE DRILL WILL DAMAGE SHIP SIDE. DRILL AT A SLIGHT ANGLE SECURELY INTO HULL BODY.

RAILINGS ARE DEVIDED INTO SEGMENTS ALONG SHIP , SO THAT THE END OF EACH SEGMENT HAS A STANCHION WITH SIDE ANGLED LEG IN A DIRECTION OF RAILING STRAIN.

THE STANCHIONS AT ENDS OF RAILING SEGMENT ARE PUT INTO DECK ON GLUE. THE SINGLE STANCHIONS IN BETWEEN REMAIN WITHOUT GLUE FOR NOW. PUT THROUGH STANCHION HOLES THE RAILING THREAD , TIGHTEN IT JUST TO BE STRAIGHT , REGULATE THE SINGLE STANCHION HEIGHT , AND FIX THEM NOW WITH GLUE TO DECK .

NOW WE CAN PAINT UPPER DECK , AND SUPERSTRUCTURE DECK COVERS IN DECK BLUE COLOR.

WHEN UPPER DECK IS WELL DRY , WE MASK THE UPPER DECK INSIDE AREA DEFINED BY WATERWAY EMBOSSED RELIEF AT THE DECK EDGES .

NOW WE CAN PAINT SHIP SIDES BETWEEN WATERLINE AND DECK .

ON THE UPPER DECK , AND SUPERSTRUCTURE DECK COVERS WE CAN NOW APPLY ANTI SKID DECK PATTERNS IN FORM OF BLACK DECALS.

YOU CAN SEAL THE DECALS WITH APPROPRIATE DECAL SEALER AVAILABLE IN HOBBY SHOPS.

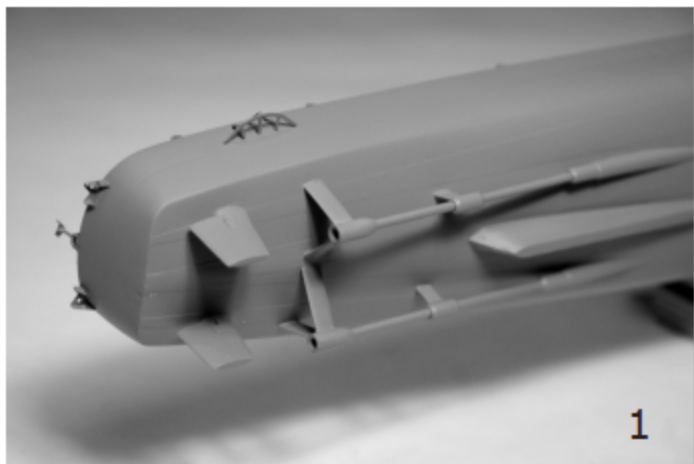
SAME PROCESS WITH ANTI SKID PATTERNS CAN BE DONE WITH OTHER DECK COVERS THAT CARRY THEM . THIS IS CONVENIENT TO DO NOW , WHILE DECK COVERS ARE NOT GLUED ON DECK.

WHEN DONE WITH DECK COVERS AND ANTI SKIDS , YOU CAN GLUE DECK COVERS ON THEIR RESPECTIVE PLACES ON DECKS. FOR THIS PURPOSE , TAKE HENKEL GLUE CALLED MOMENT , DILUTE IT ABOUT ONE THIRD WITH SOLVENT. PAINT WITH GLUE DECK AND BOTTOM OF DECK COVER. LEAVE FOR 15 MIN TO DRY , PREPOSITION COVERS ABOVE DECKS WITHOUT TOUCHING, AND THEN LOWER THEM IN PLACES , PRESSING SLIGHTLY TO CATCH WITH DECK GLUE. LIKE A STICKERS IN A SENSE.

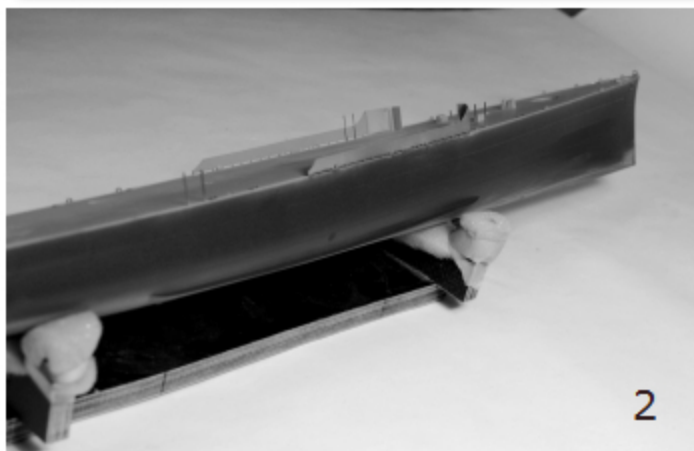
DECK COVERS ALLOW TO ACHIEVE DIFFERENT COLOR OF DECK IN OTHER COLOR ENVIRONMENT WITHOUT MASKING.

PLEASE NOTE THAT WHEN GLUEING DECK COVERS ON SURFACES , IT IS BEST TO APPLY GLUE ON MATERIAL DIRECTLY , RESIN OR METAL , NOT ON PAINTED OR PRIMED SURFACE. IF SURFACE IS PAINTED, SCRATCH AWAY THE PAINT OR PRIMER.





1 PRIMED HULL



2 BLACK WATER LINE (BOOT TOPPING LINE) ZONE



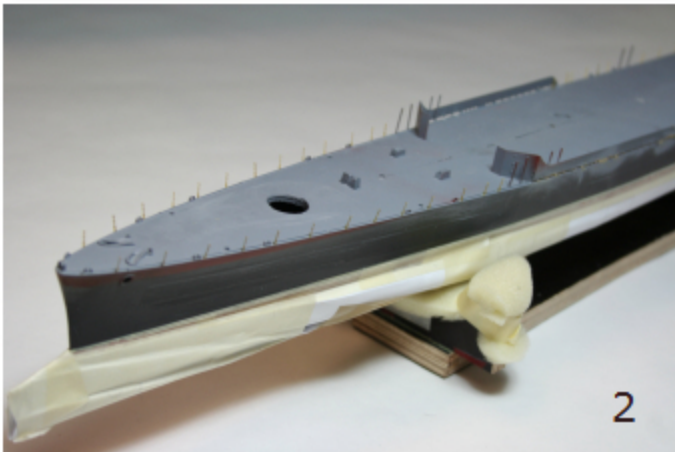
3 BLACK WATER LINE ZONE COVERED WITH MASKING TAPE .



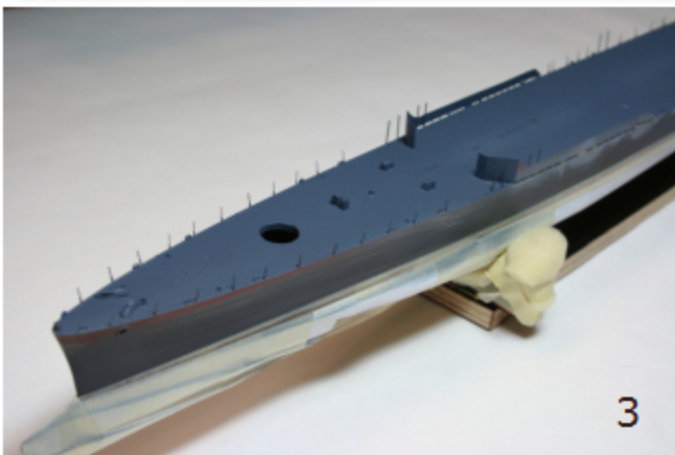
4 UNDER WATER HULL PART PAINTED



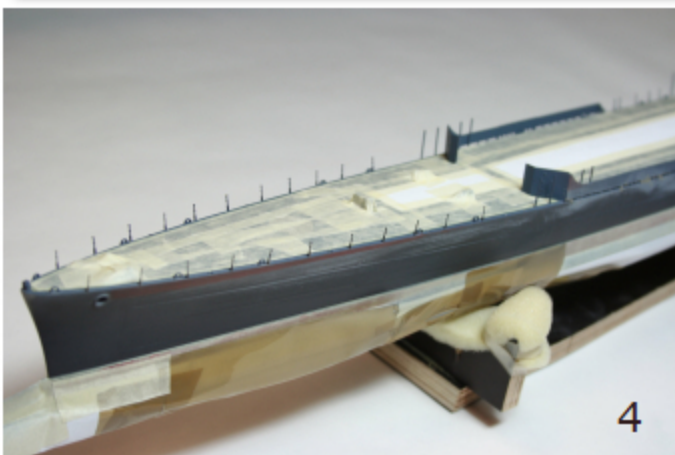
1 PAINTED BOTTOM
COVERED WITH PAPER MASK
ATTACHED TO WATER LINE
STRIP MASK.



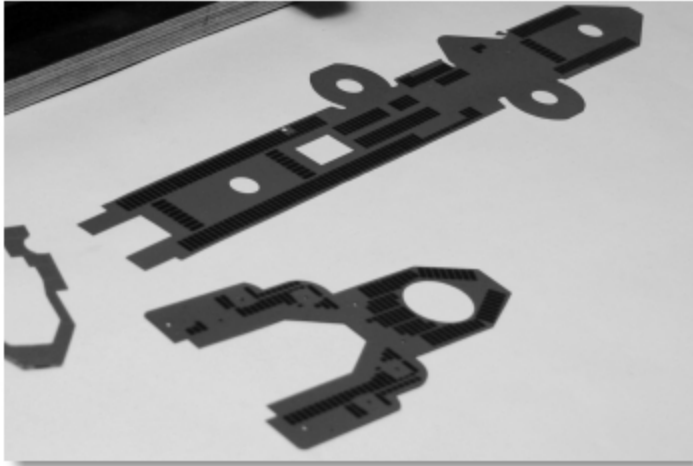
2 INSTALL UPPER DECK
STANCHIONS (H9A / H9B).



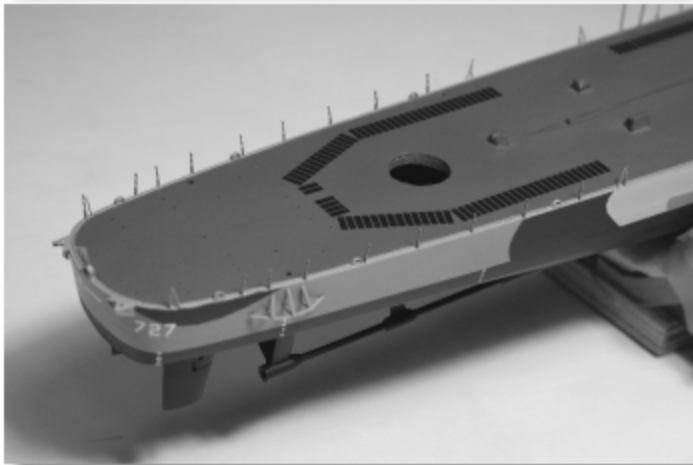
3 UPPER DECK PAINTED



4 ALL MASKED
(INCLUDING UPPER DECK)
TO PAINT SHIP SIDES ,
BULWARKS AND
STANCHIONS.



ANTI SKID PATTERN SIMULATION
DECALS .
SEAL WITH DECAL SEALER
AFTER APPLICATION.



ASSEMBLY USEFUL TIPS

SHIP MODEL CONSISTS OF ASSEMBLY UNITS. FOR INSTANCE SUCH ASSEMBLY UNIT AS LONG SUPERSTRUCTURE CAN ALL BE ASSEMBLED ON TABLE TOP SPARATELY .

WHEN ALL ASSEMBLY UNITS ARE PRE ASSEMBLED , THEY MUST BE TEST ASSEMBLED TOGETHER , TO AJUST MINIMUM SEAMS BETWEEN THEM , AND CHECK CONNECTIONS BY SCREWS . DO NOT OVERTIGHTEN CONNECTING BY SCREWS WHICH CAN CAUSE DEFORMATIONS .

IMPORTANT STEP IS TURRET NUMBER 2 INSTALLATION , AS WELL AS BOTH SMOKE STACKS AND AFT TORPEDO SET. THESE UNITS COVER THE ATTACHMENT SCREWS UNDER THEM SO THAT IT WILL BE IMPOSSIBLE TO REGULATE SCREWS ANY FURTHER.

WHEN ATTACHING THE LINES , DIP THREAD END INTO THIN SUPER GLUE , LET IT DRY AND CUT THE RIGID NOW THREAD WITH SHARP BLADE AT AN ANGLE . THIS WAY YOU GET THREAD END SHARP LIKE A NEEDLE EASY TO PASS IN SMALL HOLES.

WHEN SECURING THREADS WITH KNOTS , APPLY A MINI DROP OF SUPER GLUE AND CUT OFF UNNEEDED THREAD END.

SHIP PROPELLERS SHOULD BE POLISHED TO A SHINY STATE AND THEN COVERED WITH GLOSSY LACQUER. EVEN A LACQUER FROM SPRAY CAN SHOULD WORK FINE.

IN THE AREA OF TORPEDO SETS , THERE WERE RAILINGS WITH ONLY ONE THREAD. IN REALITY THESE WERE REMOVABLE RAILINGS , TO ALLOW FOR TORPEDO SET MANIPULATION. BOTH VERSIONS SHOULD BE RIGHT FOR THE MODEL - WITH AND WITHOUT THESE RAILINGS. HOWEVER, IF YOU PUT THESE RAILINGS , MAKE SURE THEY DON'T INTERFERE WITH DECK COVER. ADJUST DECK COVER IF NEEDED.

PLEASE NOTE THAT THE ROUND MAIN CALIBER TURRET MOUNTINGS ARE DIFFERENT IN FACT. UNDER FIRST AND SECOND TURRETS THEY ARE SLANTED TO COMPENSATE FOR DECK ELEVATION , AND ALL THREE TURRETS MUST STAND HORIZONTALLY .

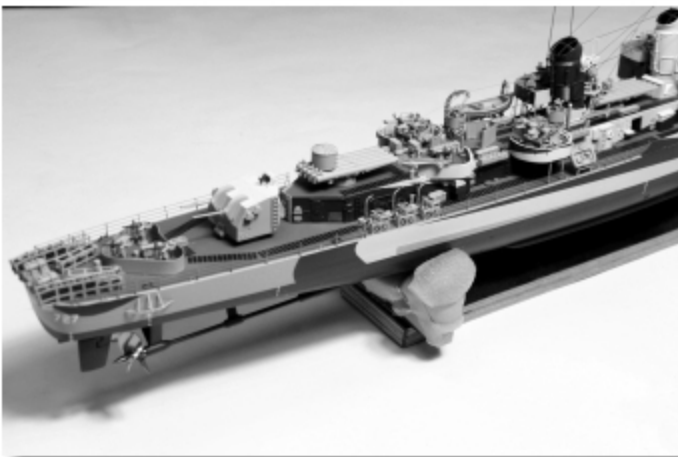
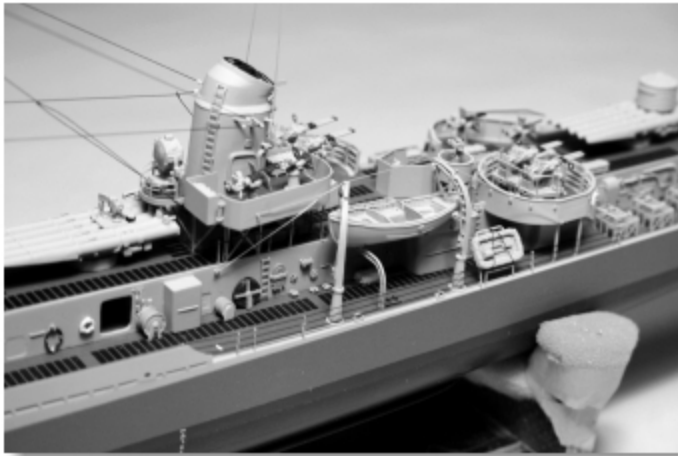
USS WALKER DID NOT HAVE SMOKE GENERATORS , AND FORE ANTENNA BRACKET ON SECOND SMOKE STACK.

BEFORE BEGINNING SUPERSTRUCTURE AND FITTINGS INSTALLATION UN UPPER DECK , APPLY ANTI SKID DECALS TO IT AND SEAL THEM WITH DECAL SEALER.

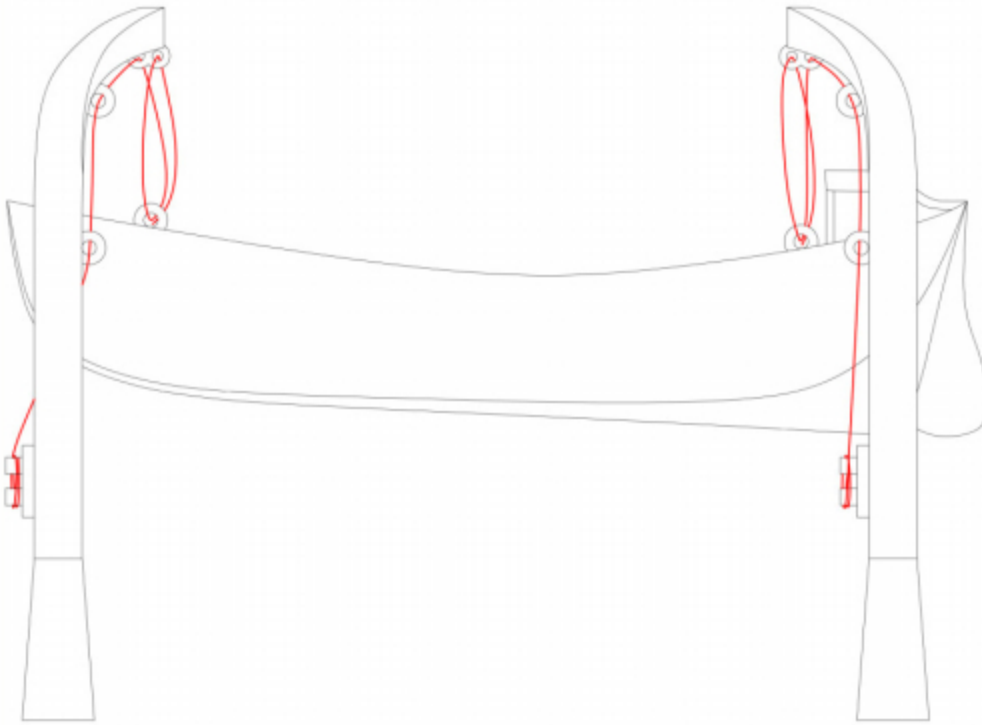
ATTACH ANCHORS TO ANCHOR CHAIN WITH A PIECE OF FINE WIRE. CHAIN SHOULD BE PAINTED IN DECK COLOR. AT THE OTHER END OF CHAIN ATTACH SOME 0.5 MM WIRE TO SERVE AS PRIMING NEEDLE TO PASS CHAIN THROUGH CHAIN PIPE.

AFTER INSTALLING ANCHOR CHAIN , ATTACH BOLLARDS , JACK STAFF , PASS THE RAILING THREADS INTO STANCHIONS , AND FINALLY ATTACH FITTINGS ON FORE AND AFT DECKS .

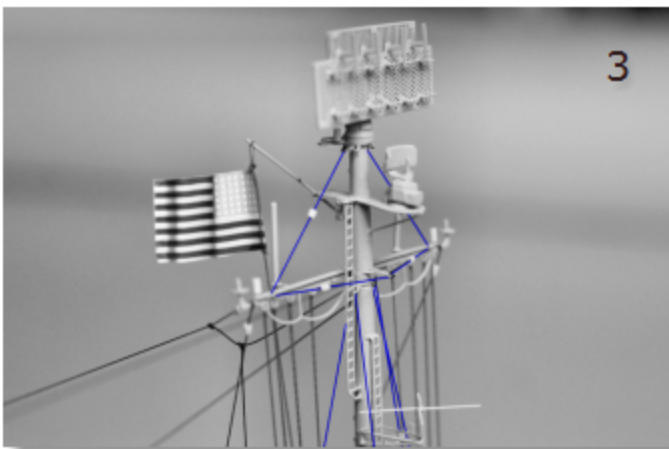




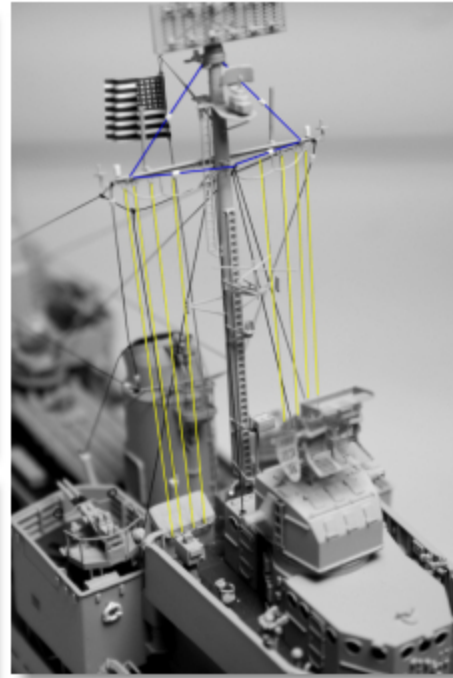
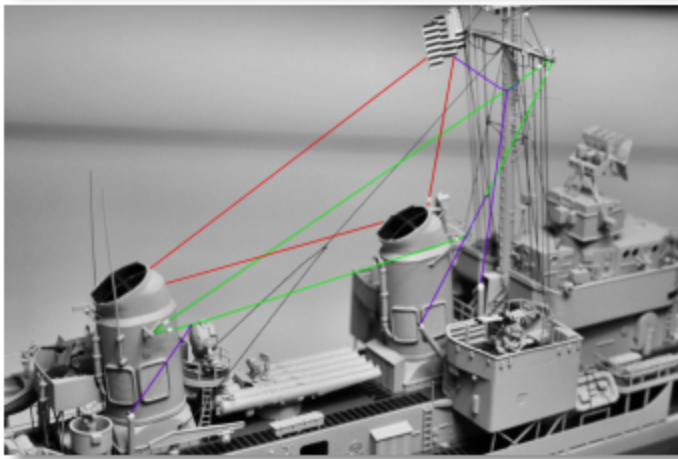
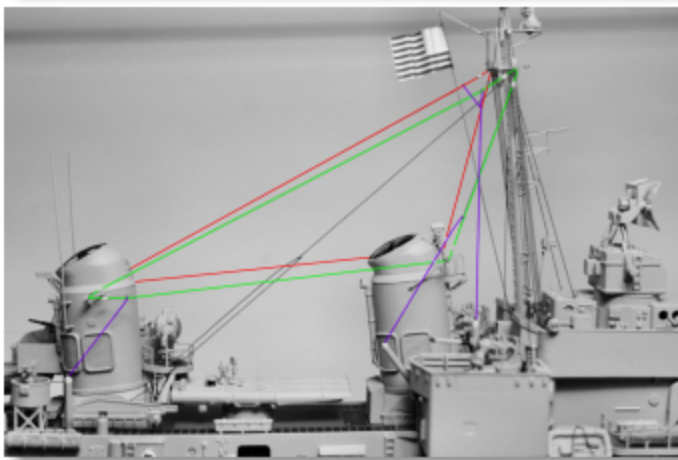
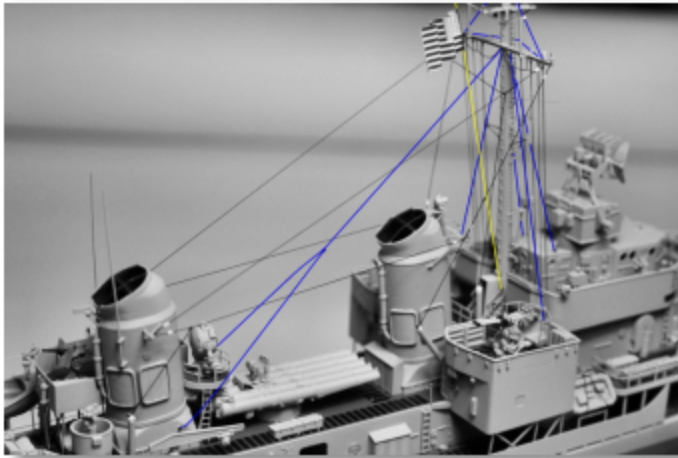
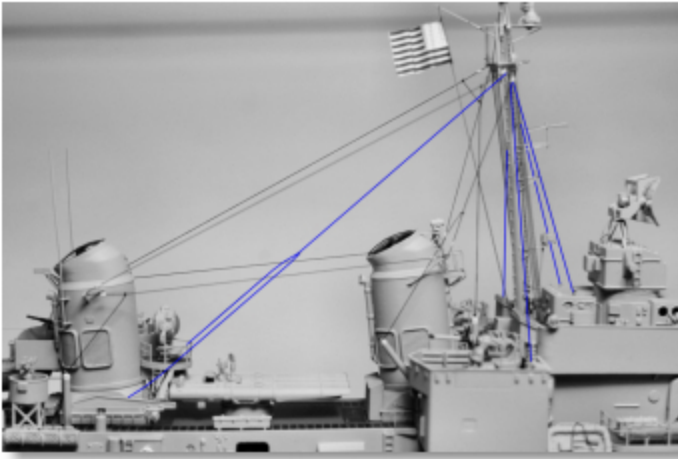
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1, 2 MOTOR WHALEBOAT RIGGING. BOAT TACKLES (RED) AND JACKSTAY WITH FORE AND AFTER GUYS (YELLOW) ARE FROM LIGHT COLOR THREAD .



3 YARD LIFTS AND BACK STAYS (BLUE).



USE BLACK THREAD FOR :
MAST YARD LIFTS , YARD BRACES AND
BACKSTAYS (BLUE) , PORTSIDE MAIN
AERIALS (RED) , STARBOARD MAIN
AERIALS (GREEN) , AUXILIARY
AERIALS (VIOLET) .
USE LIGHT COLOR THREAD FOR :
SIGNAL HALYARDS (YELLOW) .

PLEASE REFER TO RIGGING DIAGRAM
WITH HIGHER RESOLUTION IMAGES IN
ASSEMBLY DIAGRAMS FOLDER

DISPLAY NOTES

FOR DISPLAY PURPOSE , WE RECOMMEND TO ORDER WITH LOCAL SUPPLIER A DISPLAY CASE FOR THE MODEL.

RECOMMENDED DISPLAY BASE SIZE IS 700 MM LONG BY 170 MM WIDE . IT CAN BE 8-10 MM BLACK PLEXIGLASS , OR WALNUT WOOD .

ON TOP OF THE DISPLAY BASE IT IS BEST TO FIT TRANSPARENT HOOD , MADE OF 3 MM TRANSPARENT PLEXIGLASS OF THE FOLLOWING SIZE : LENGTH 690 MM , WIDTH 160 MM , HEIGHT 240 MM .

FOR MOUNTING MODEL ON DISPLAY BASE , WE PROVIDE A SET OF KEEL BLOCKS (2 TRANSVERSAL AND 3 LENGTHWISE) . USUAL COLOR FOR KEEL BLOCKS IN DRY DOCKS IS BROWN.

KEEL BLOCKS , DISPLAY BASE AND MODEL ARE ALL CONNECTED BY DOUBLE SIDED THIN , TRANSPARENT TAPE. FOR BETTER SECURING YOU MAY ALSO USE SCREWS , FOR YOUR BETTER JUDGEMENT .

