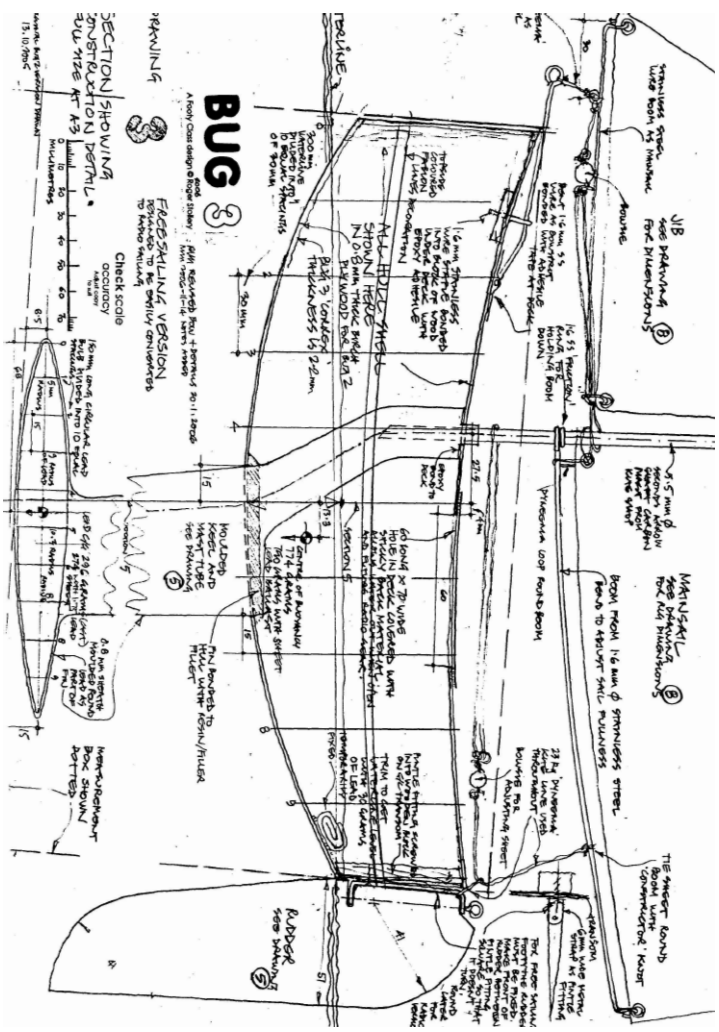
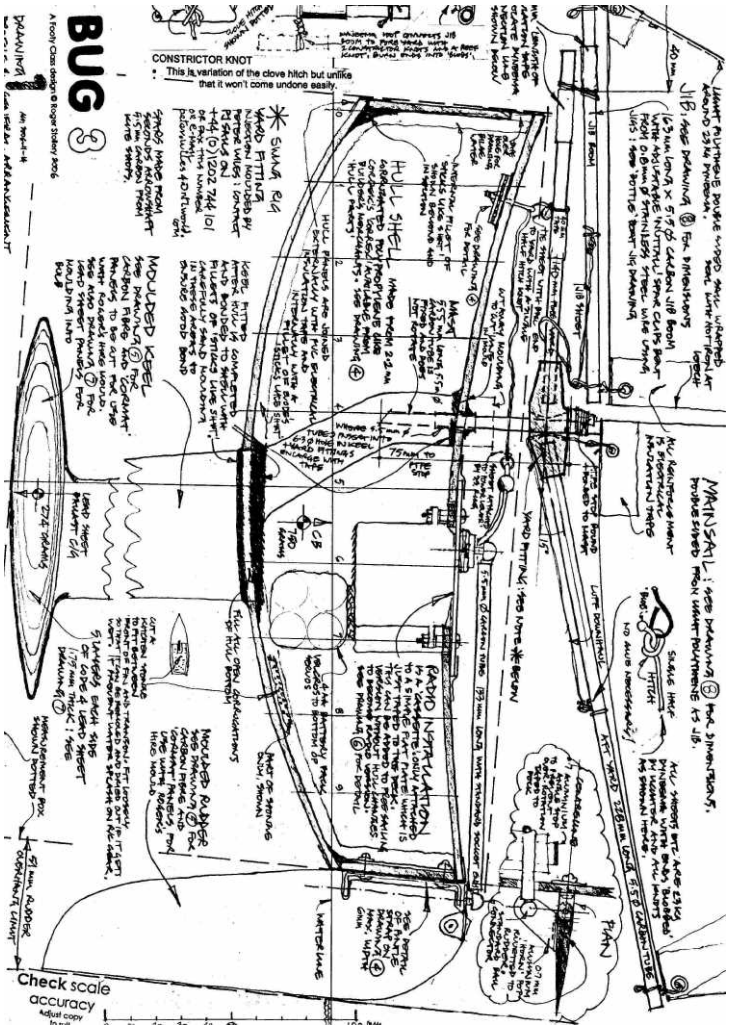
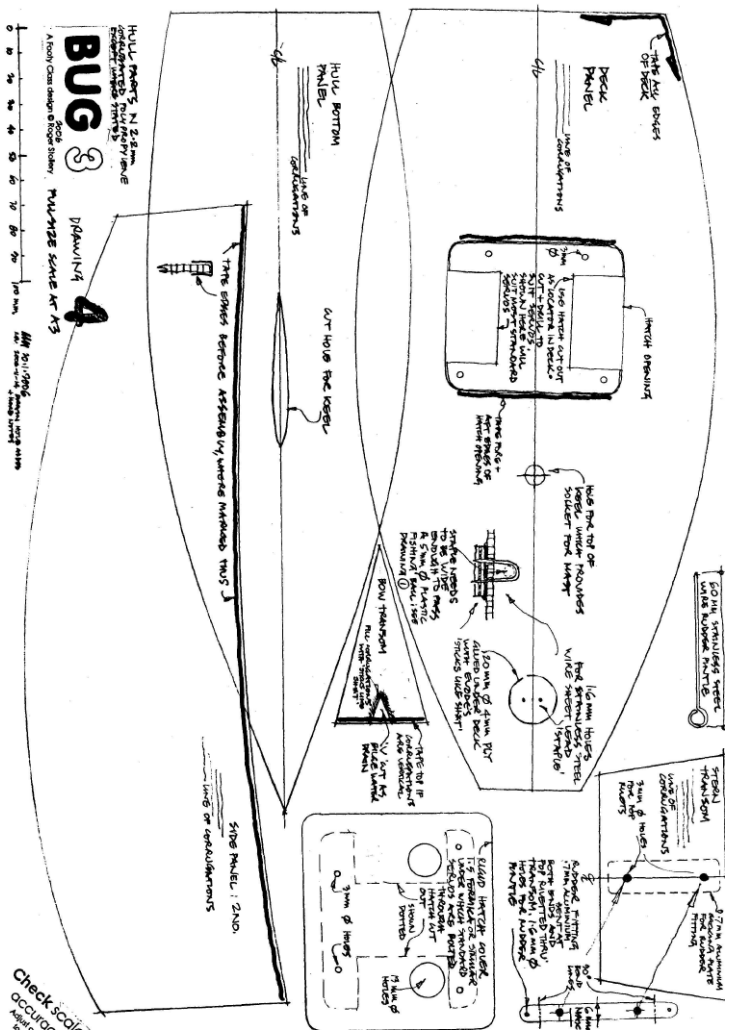
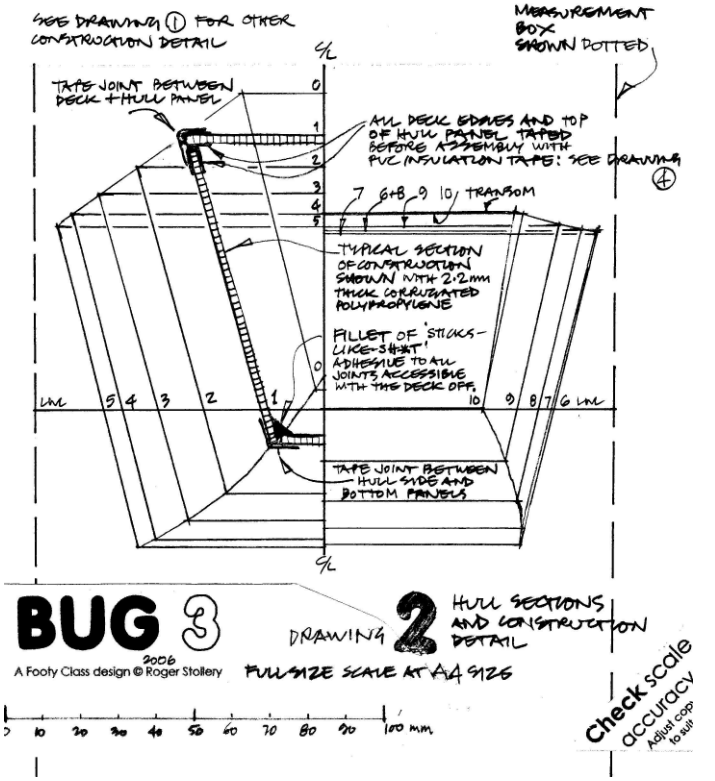
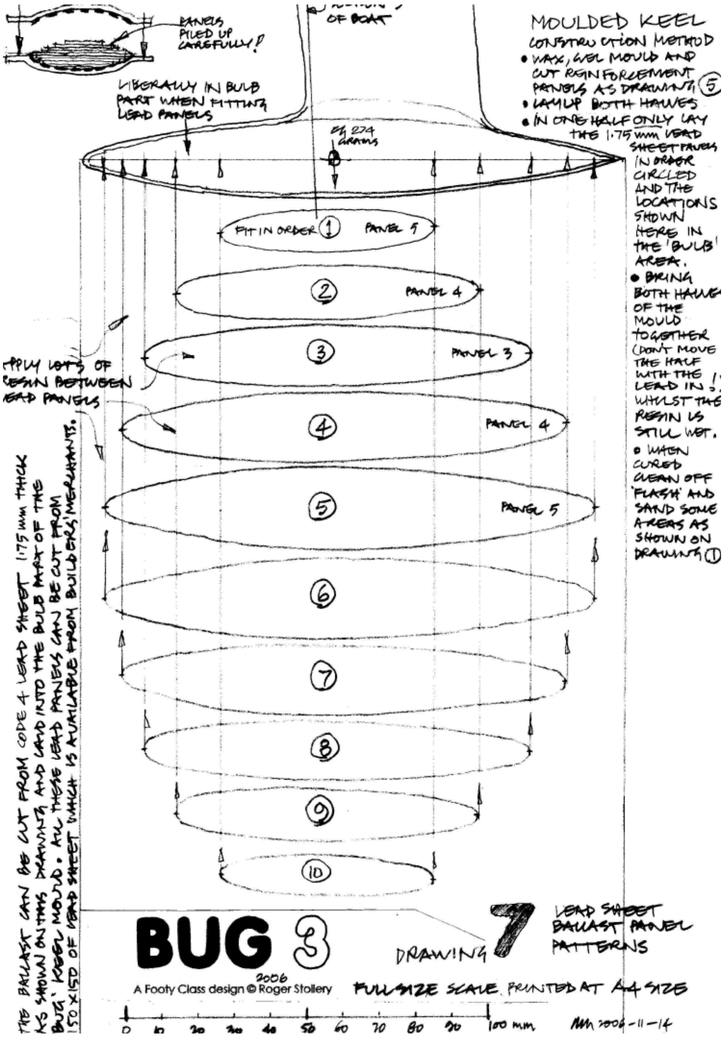
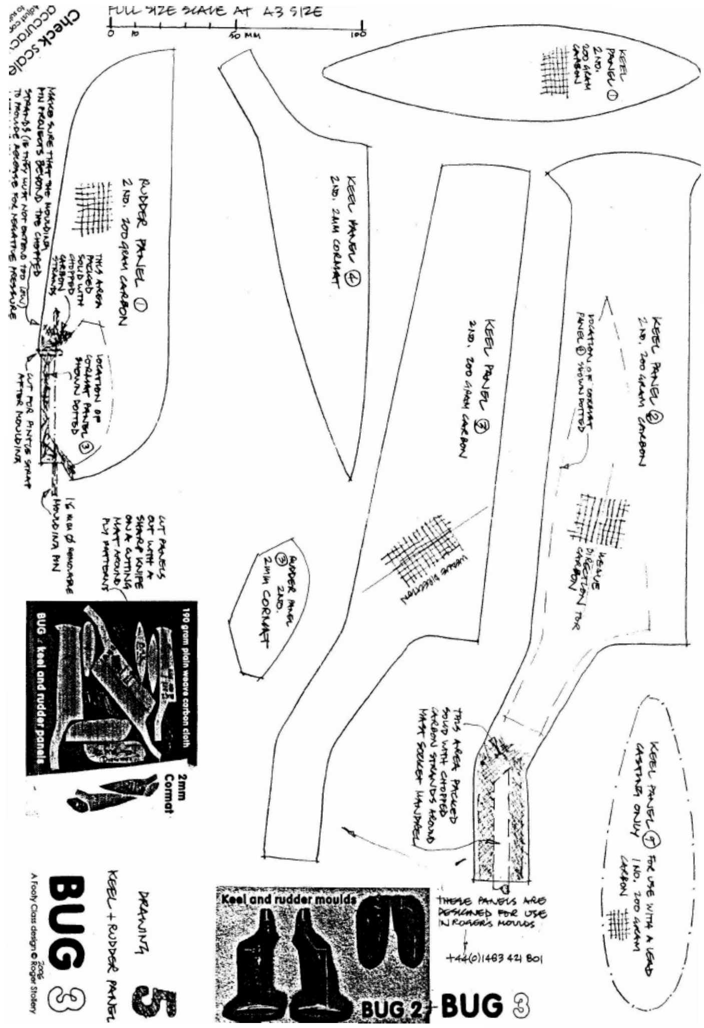

BUG 3
DRAWING 1
SECTION SHOWING CONSTRUCTION DETAIL
FREESAILING VERSION
Check scale accuracy

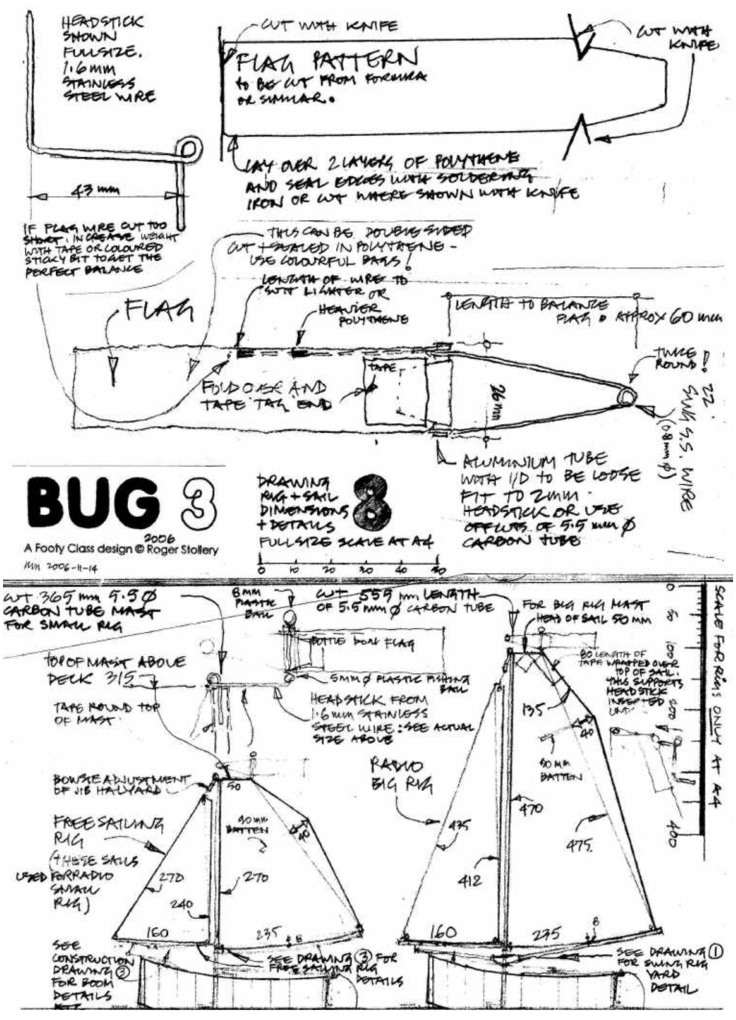

BUG 3
CONSTRICTOR KNOT
This is variation of the clove hitch but unlike that it won't come undone easily.
HULL SHELL
MOULDED KEEL
MAINSAIL
RADIO INSTALLATION
PLAN
Check scale accuracy

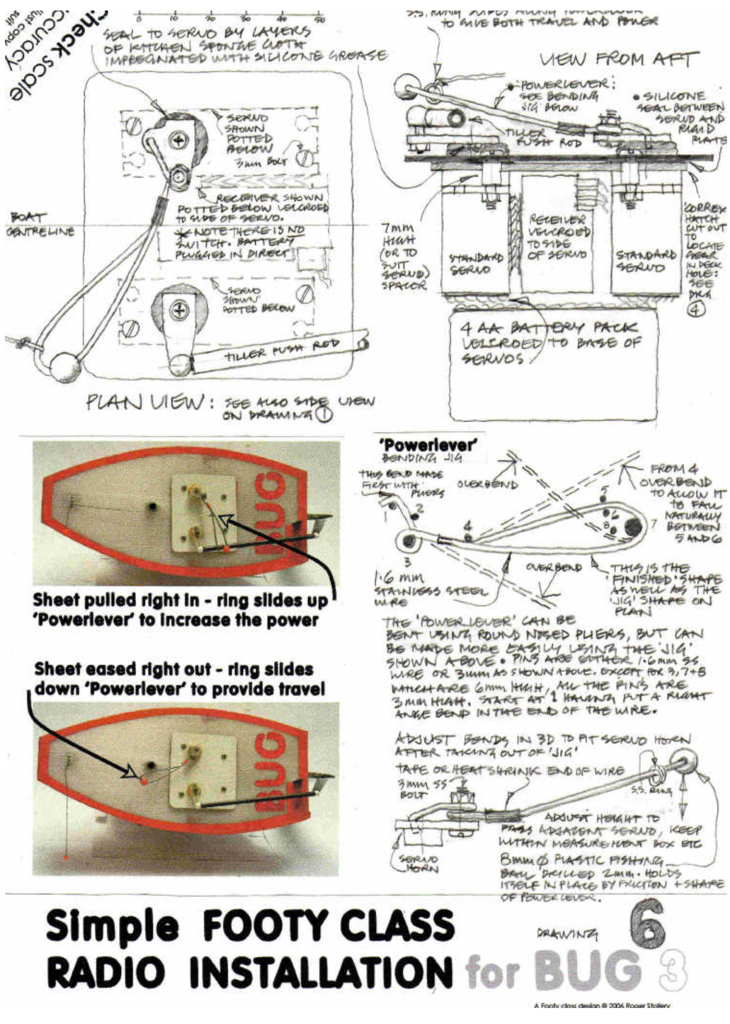

BUG 3
DRAWING 4
DECK PANEL
HULL BOTTOM PANEL
CUT HOLE FOR KEEL
TAPE EDGES BEFORE ASSEMBLY, WATER MARKED THUS
SIDE PANEL : 2ND.
Check scale accuracy


CORRUGATED POLYPROPYLENE KNOWN AS 'CORREX' IS AVAILABLE FROM BUILDERS' MERCHANTS. CONTACT MANUFACTURER 'CORDEK' ON 01403 799 600 FOR INFORMATION.
SEE DRAWING 1 FOR OTHER CONSTRUCTION DETAIL
MEASUREMENT BOX SHOWN DOTTED
TAPE JOINT BETWEEN DECK + HULL PANEL
ALL DECK EDGES AND TOP OF HULL PANEL TAPED BEFORE ASSEMBLY WITH PVC INSULATION TAPE: SEE DRAWING 4
TRANSOM
TYPICAL SECTION OF CONSTRUCTION SHOWN WITH 2.2mm THICK CORRUGATED POLYPROPYLENE
FILLET OF 'STICKS-LIKE-SHIT' ADHESIVE TO ALL JOINTS ACCESSIBLE WITH THE DECK OFF.
TAPE JOINT BETWEEN HULL SIDES AND BOTTOM PANELS
BUG 3
DRAWING 2
HULL SECTIONS AND CONSTRUCTION DETAIL
2006
A Footy Class design © Roger Stollery
FULLSIZE SCALE AT A4 SIZE
Check scale accuracy


MOULDED KEEL
CONSTRUCTION METHOD
• WAX, GEL MOULD AND CUT REINFORCEMENT PANELS AS DRAWING ⑤
• LAYUP BOTH HALVES
• IN ONE HALF ONLY LAY THE 1.75 mm LEAD SHEET PANELS IN ORDER CIRCLED AND THE LOCATIONS SHOWN HERE IN THE 'BULB' AREA.
• BRING BOTH HALVES OF THE MOULD TOGETHER (DON'T MOVE THE HALF WITH THE LEAD IN!) WHILST THE RESIN IS STILL WET.
• WHEN CURED CLEAN OFF 'FLASH' AND SAND SOME AREAS AS SHOWN ON DRAWING ①
PANELS PILED UP CAREFULLY!
OF BOAT
LIBERALLY IN BULB PART WHEN FITTING LEAD PANELS
APPLY LOTS OF RESIN BETWEEN LEAD PANELS
FIT IN ORDER ① PANEL 5
PANEL 4
PANEL 3
PANEL 4
PANEL 5
THE BALLAST CAN BE CUT FROM CODE 4 LEAD SHEET 1.75 mm THICK AS SHOWN ON THIS DRAWING AND LAID INTO THE BULB PART OF THE BUG' KEEL MOULD. ALL THESE LEAD PANELS CAN BE CUT FROM 150 X 150 OF LEAD SHEET WHICH IS AVAILABLE FROM BUILDERS' MERCHANTS.
BUG 3
2006
A Footy Class design © Roger Stollery
DRAWING 7
LEAD SHEET BALLAST PANEL PATTERNS
FULLSIZE SCALE PRINTED AT A4 SIZE
100 mm
RM 2006-11-14


FULL SIZE SCALE AT A3 SIZE
50 MM
check scale
KEEL PANEL ① 2 NO. 200 GRAM CARBON
KEEL PANEL ② 2 NO. 200 GRAM CARBON
KEEL PANEL ③ 2 NO. 200 GRAM CARBON
KEEL PANEL ④ 2 NO. 2MM CORMAT
KEEL PANEL ⑤ FOR USE WITH A LEAD CASTING ONLY 1 NO. 200 GRAM CARBON
RUDDER PANEL ① 2 NO. 200 GRAM CARBON
RUDDER PANEL ② 2 NO. 2MM CORMAT
CUT PANELS OUT WITH A SHARP KNIFE
BUG . keel and rudder panels
190 gram plain weave carbon cloth
2mm Cormat
Keel and rudder moulds
BUG 2 BUG 3
THESE PANELS ARE DESIGNED FOR USE IN ROGER'S MOULDS
+44(0)1463 421 801
BUG 3
A Footy Class design © Roger Stollery
DRAWING 5
KEEL + RUDDER PANEL


HEADSTICK SHOWN FULLSIZE. 1.6 MM STAINLESS STEEL WIRE
CUT WITH KNIFE
FLAG PATTERN to be cut from FORMICA or SIMILAR.
LAY OVER 2 LAYERS OF POLYTHENE AND SEAL EDGES WITH SOLDERING IRON OR CUT WHERE SHOWN WITH KNIFE
43 mm
IF FLAG WIRE CUT TOO SHORT, INCREASE WEIGHT WITH TAPE OR COLOURED STICKY BIT TO GET THE PERFECT BALANCE
THIS CAN BE DOUBLE SIDED CUT + SEALED IN POLYTHENE - USE COLOURFUL BAGS
LENGTH OF WIRE TO SUIT LIGHTER OR HEAVIER POLYTHENE
LENGTH TO BALANCE FLAG ≈ APPROX 60 mm
FLAG
FOLD OVER AND TAPE TAG END
TAPE
TWICE ROUND!
ALUMINIUM TUBE WITH I/D TO BE LOOSE FIT TO 2mm HEADSTICK OR USE OFFCUTS OF 5.5 mm ∅ CARBON TUBE
BUG 3
2006
A Footy Class design © Roger Stollery
DRAWING 8
RIG + SAIL DIMENSIONS + DETAILS
FULLSIZE SCALE AT A4
RM 2006-11-14
CUT 365 mm 5.5∅ CARBON TUBE MAST FOR SMALL RIG
CUT 559 mm LENGTH OF 5.5 mm ∅ CARBON TUBE
TOP OF MAST ABOVE DECK 315
TAPE ROUND TOP OF MAST
HEADSTICK FROM 1.6 mm STAINLESS STEEL WIRE: SEE ACTUAL SIZE ABOVE
BOWSIE ADJUSTMENT OF JIB HALYARD
FREE SAILING RIG
RADIO BIG RIG
SCALE FOR RIGS ONLY AT A4
SEE CONSTRUCTION DRAWING ② FOR BOOM DETAILS
SEE DRAWING ③ FOR FREE SAILING RIG DETAILS
SEE DRAWING ① FOR SWING RIG YARD DETAIL


check scale
SEAL TO SERVO BY LAYERS OF KITCHEN SPONGE CLOTH IMPREGNATED WITH SILICONE GREASE
TO GIVE BOTH TRAVEL AND POWER
VIEW FROM AFT
POWERLEVER: SEE BENDING JIG BELOW
SILICONE SEAL BETWEEN SERVO AND RIGID PLATE
TILLER PUSH ROD
SERVO SHOWN POTTED BELOW
RECEIVER SHOWN POTTED BELOW VELCROED TO SIDE OF SERVO.
NOTE THERE IS NO SWITCH. BATTERY PLUGGED IN DIRECT
BOAT CENTRELINE
7mm HIGH (OR TO SUIT SERVO) SPACER
STANDARD SERVO
RECEIVER VELCROED TO SIDE OF SERVO
STANDARD SERVO
CORREX HATCH CUT OUT TO LOCATE GEAR IN DECK HOLE: SEE DWG ④
4 AA BATTERY PACK VELCROED TO BASE OF SERVOS
TILLER PUSH ROD
PLAN VIEW: SEE ALSO SIDE VIEW ON DRAWING ①
Sheet pulled right in - ring slides up 'Powerlever' to increase the power
Sheet eased right out - ring slides down 'Powerlever' to provide travel
'Powerlever' BENDING JIG
OVERBEND
FROM 4 OVERBEND TO ALLOW IT TO FALL NATURALLY BETWEEN 5 AND 6
1.6 mm STAINLESS STEEL WIRE
THIS IS THE FINISHED SHAPE AS WELL AS THE 'JIG' SHAPE ON PLAN
THE 'POWERLEVER' CAN BE BENT USING ROUND NOSED PLIERS, BUT CAN BE MADE MORE EASILY USING THE 'JIG' SHOWN ABOVE.
ADJUST BENDS IN 3D TO FIT SERVO HORN AFTER TAKING OUT OF 'JIG'
TAPE OR HEATSHRINK END OF WIRE
SERVO HORN
ADJUST HEIGHT TO PASS ADJACENT SERVO, KEEP WITHIN MEASUREMENT BOX ETC
8mm ∅ PLASTIC FISHING BALL DRILLED 2mm. HOLDS ITSELF IN PLACE BY FRICTION + SHAPE OF POWER LEVER.
Simple FOOTY CLASS RADIO INSTALLATION for BUG 3
DRAWING 6
A Footy class design © 2006 Roger Stollery