OWING TO THE MANY OPTIONAL SYSTEMS OF COUPLING BETWEEN ACTUATOR & RUDDER, ONLY 1/4" □ BALSA LINK RODS, 20 S.W.G. WIRE, 18 S.W.G. & ALUMINIUM TUBING & DURAL RUDDER HORN ARE SUPPLIED. PARTS MARKED N.S. ARE NOT SUPPLIED IN KIT.

2° RIGHT SIDETHRUST.
trim width to suit.
optional trimming
1/8" balsa sheet.
1/4" x 2" x 3"
Davies-Charlton 15 or 30 c.c. tank screwed to beams or locate here 2 oz polythene clunk tank. N.S.
locate engines with propeller driving boss 1/2" beyond end of beams, drill bolt holes to suit – use 6 b.a. bolts, washers and double locknuts
down thrust as per beams.
lock engine bolts with wire soldered in slots.
balsa block 2" x 2" x 3/8"
fill in with sheet or make lid for access if required.
fill in with scrap against ply sides.
alternative compartment for battery, ballast or F. Rising clockwork 2-pawl actuator for 2 speed engine control (access from below).
BASIC FRAME A
RX. LOCATION.
optional ply bulkhead N.S.
3/16" x 3/16" creating slot.
adjusters N.S.
typical actuator installation. ('Varicomp' with sides trimmed)
tubing.
switch location
3/16" x 3/16" longerons along bottom of compartment.
trim 3/32" sides.
notch underside of dowel to prevent slip.
incise to bend (on inside)
rubber drive N.S.
trim to clear
top sheeting omitted.
3/32" side sheeting.
all longerons, crosspieces and verticals are medium 3/16" x 3/16" balsa.
3/16" □ crosspiece.
top sheeting cross grained 1/16"
C.G.
5/16" dowel.
suggested location for radio RX. (set upright)
suggested battery location.
foam rubber (sheet or block) N.S.
1/16" ply.
two 3/16" x 3/16" struts creating a slot.
bend.
switch location.
adjusters N.S.
3 5/16"
1/16" ply.
BASIC FRAME B
to elevator
to rudder.
5/16" dowel – secure u/c with heavy double bands.
1/16" ply base to radio compartment.
lower sheeting – crossgrained 1/16" balsa
trim balsa former only to chamfer using a ply dihedral gusset as template to permit seating of leading edge.
1/16" x 3/16" strips.
3/16" balsa former laminated to 1/16" ply former.
1/16"
removable plug of ply & 3/16" balsa with wire anchor and 'S' hook for rubber drive to actuators.
trim to streamline.
1/8" dowel
ali tubing.
pin for aerial
hinges sewn with terylene thread
leading edge sanded to streamline.
3/16" balsa rudder sanded to streamline.
8 b.a. bolt secures 20 s.w.g. engaging loop.
3/16" x 3/16"
alternative 'push-pull' linkage scheme with connector to duralumin control horn (supplied)
18 s.w.g.
20 s.w.g. loop.
20 s.w.g. cross-link bound.
"flip-up" elevator action.
1/8" dowel.
E.D. aluminium adjusters (optional) – access from underside.
18 s.w.g. aluminium tubing.

If fitting a Banner 'Varicomp' actuator, fit with leads at top for better access to lead wires and for checking the solenoid trigger. Control rods above appear to cross but are in fact well to side of each other – see top view.

GENERAL DATA.

SPAN : 45" LENGTH (F/U ONLY) : 36 3/4"
SECTION : N.A.C.A. 2412. AREA : 400 SQ. INS.
BARE WEIGHT : (COVERED & DOPED) 28 ozs.
PROTOTYPE MODEL : (E.D. 1·49, UNITONE, BATTERIES & VARICOMP ACTUATOR) – 42 ozs.

form of optional battery tray under nose. N.S.
3/16" balsa.
1/16" ply.
3/16" x 3/16"
BASIC FRAME B.
3/16" x 3/4"
3/16" x 3/16"
4 b.a. bolt axle thru' hub.
PORT WING.
pre-shaped leading edge.
1/16" top sheeting.
1/4" x 1/4" spars.
die-cut ribs & diagonals.
sheet crossgrained & level with ribs on top of centre section only.
double ribs
trim
packing when building.
double ribs
STARBOARD WING
trim & laminate centre ribs – add after joining two wing halves with gussets.
A.
B. – 2 OFF.
C.
Ply Dihedral Gussets.
tip dihedral 2 1/2°.
no diagonals in outer boys.
"Clunk Tank" details.
vent 16 s.w.g. (higher than diameter of container)
feed 16 s.w.g.
p.v.c. tubing secures brass tube thru' cap.
rubber valve tubing, 16 s.w.g. brass tubing & lead weight.
1 or 2 oz p.v.c. or nylon container
VERON No 9 or 10 Tanks secure in engine bay on foam rubber with rubber bands.
lateral trim tabs with strap metal hinges.
scrap gussets.
sew shaped 18 s.w.g. skid thru' 1/16" holes in 1/8" ply gusset let into longerons.
carve top of tip blocks to camber of ribs – sand the edges round.
3/16" x 3/16"
top spars 1/8" x 1/8"
3/16" x 3/4" leading edge.
ribs 3/16" x 3/16"
cap strips 1/8" x 1/8"
20 s.w.g. spigot of wire (one each side) for neutral stop – up movement only.
20 s.w.g. wire loop lever sewn to ply. (actual size)
20 s.w.g. link sewn to ply elevators.
space top cap strips to fit fuselage.
top spars to here only
3/16" x 3/16"
scarf joint.
sew hinges with terylene thread
shaped trailing edge.
elevators if fitted are 1/16" ply.
neutral stop
the underside spar & cap strips added after raising from building board.

VERON RADIO ROBOT TRAINER

DESIGNED AS AN EASY TO BUILD, INHERENTLY STABLE, ROBUST AND DEPENDABLE TRAINER FOR SINGLE CHANNEL RADIO.

DESIGNED SPECIFICALLY FOR 1·49 TO 2·46 DIESEL & GLOW MOTORS (·09 to ·15 cu.ins).

1 BASIC FRAMES

3/16" x 3/4"
FRAME A.
dihedral gusset
trim
3/16" □
FRAME B.
1/16" ply.
1/16" x 3/16"

2 SHEET SIDES

draw line parallel to base to dimension shown.
die-cut 1/16" ply longerons.
3 5/16"
trim edges of 3/32" sides exactly to plan, lay over plan & pencil in location of uprights and formers A & B.
cut out holes in balsa

3 ADDING LONGERONS & UPRIGHTS

gusset
3/16" gap.
3/16" short
3/16" gap.
NOTE This edge of sheet is not parallel to base.
3 5/16"
3/16" □ stepped.
partially incise sheet on inner face to permit bending the side to the rear.

4 JOINING SIDES

scrap fillet.
set level with top sheeting.
chamfer joint.
former A.
former B.
3/16" crosspieces

5 FUSELAGE SHEETING

1/4" x 2" x 3"
1/16" x 4" cross grained top sheeting
3/16" x 3/16" fin supports.
5/16" dowels.
1/16" ply base to radio compartment.
1/8" dowels.
1/16" cross grained undersheeting.

6 ENGINE MOUNT

cement beams firmly to hardwood spacer – double coating with cement (or use Araldite.)
rub cement into outer edges of beams before double coating & joining to slots in sides.
block 2" x 2" x 3/8".

7 WINGS

bottom spar is packed up 1/16" from board.
1/16" packing under the trailing edge.

8 WINGS CENTRE SECTION

ply gusset A
c/section gussets 'B'.
gusset 'C'
laminated & trimmed centre ribs with gussets.

9 CENTRE SECTION & TIPS

cement tip blocks to outer rib & carve to camber of rib top.
cross-grained 1/16" sheet set level with ribs.

10 TAILPLANE

leading edge & tips cut from 3/16" x 3/4".
1/16" packing strips under trailing edge.
add top spar & cap strips – when set, raise from the board & add to the underside.

11 TAILPLANE CAMBER

1/8" x 1/8" cap strips
1/8" x 1/8" spars
sanded cap strips.
spar is continuous on underside but not on topside.

12

sand fin fairing to streamline.
double rubber bands.
COMPLETE TAIL ASSEMBLY.