FOCKE WULF TA 152 H
1/12 SCALE COMBAT
DESIGNED & DRAWN BY STEVE HERGETT
member of Radio Control Combat Association

SPECIFACATIONS	
WINGSPAN	48 7/8"
WING AREA	265 SQ. IN.
WEIGHT	2 LBS. 7 OZ.

QUICK BUILD FEATURE

Use House of Balsa 1/12 scale FW 190 canopy and trim to shape. The rear portion needs to fit as shown

FRONT CANOPY FORMER
1/16 balsa

1/8" balsa template
FORMER 2A

FORMER 1A
1/4" PLY

3/16" balsa
grain
3/16" balsa
grain

3/16" up & down on elevator

add balsa block to underside of crutch this helps support the vertical stabilizer and is carved to match canopy shape

add 1/8" x1/8" balsa to topside of crutch on both sides glue House of Balsa canopy to strips

Be sure to point tapered end of battery drawing on fuselage

hold 1/8" x 1/8" balsa to inside of fuse. Fit canopy then glue and sand to match fuselage side

trim to conform to canopy shape

Former 3

Shuttle ZX3 elevator servo

1/8" x 1/8" balsa longeron

hole

You will need to mount equipment behind wing to balance model

EQUIPMENT HATCH

TORQUE ROD ASSEMBLY

balsa block

3/16" Balsa SEE SECTION VIEW

3/16" Balsa SEE SECTION VIEW

6 oz. tank

FIREWALL/ FORMER 1

stitch cowl with screws from front opening

3/16" wing down

1 1/2 deg positive

1/16" PLY BOTTOM

COWL FORMER RING

COWL ATTACHMENT RING

slide horisontal stabe into slot cut into fusilage side

add balsa block to underside of crutch this helps support the vertical stabilizer and is carved to match canopy shape

1/8" Balsa fuselage sides
grain

line up former3 with rear edge of 1/32" doubler

glue on doubler

3/16" ply wing hold down plate

former 2 location

firewall location

butt fireal to 1/32" ply doubler to get downthrust angle

FORMER 1A
1/4" PLY
template

FIREWALL
1/4" PLY
FORMER 1
template

HOUSE OF BALSA 1/12 SCALE FW 190 CANOPY

1/16" BALSA SKETCH

FORMER 3
SECTION VIEW

1/8 PLY FORMER

1/8" X 1/8" LONGERON

1/16" PLY BOTTOM

EQUIPMENT HATCH

grain

3/32" music wire elevator joiner

3/16" balsa
grain

former 3 location

1/32" PLY FUSLAGE DOUBLER

1 deg. downthrust

3/16" ply wing hold down plate

FORMER 2
3/16" dia. wing dowel hole
1/8"ply
template

add triangular shape balsa block to underside of crutch this helps support the rudder and is carved to match canopy shape

add 3/8" tri stock former braces to former 3

former 3 location

1/16" balsa building crutch

Build fuselage upside down with crutch on bench. Cut out former 3 and former 2. Mark and cut out right fuselage sides for formers 2 and 3. Set fuselage sides together rear of former 3 and glue to crutch

It is easier to drill wing dowel hole in the wing if you make a jig to hold the wing at the right angle to the centerline in the middle (the lower one). Drill from the front and using the 3/32" hole in former 3 as a guide. After this step is done glue in the firewall

After lower side is built remove from bench, flip over fuselage and build up the top side

FORMER 2A
on topside

cut out this area of the 1/32" balsa doubler after assembly. Use as a template to cut hole for fuel tank

former 2 location

firewall location

FORMER 2A
3/16" balsa
1/16 crutch cut away here for fuel tank clearance
FORMER 2
SECTION VIEW
3/16" dia. wing dowel hole
1/8"dia

shape to this outline after buildup

3/16" soft balsa

FORMER 1A
1/4" PLY
FORMER 1
1/4" PLY
FIREWALL
SECTION VIEW

1/16" balsa crutch

1/8" balsa fuselage side

3/16" balsa

SECTION VIEW AT COWL FORMER

square up front of balsa and glue cowl former directly to fuselage

CUT AWAY AFTER ASSEMBLY TO ALLOW FOR ENGINE CLEARANCE

MAKE 8 PINS CLOSE TO FUSELAGE AS YOU CAN TO HOLD FUSELAGE SIDES TOGETHER WHILE GLUING FRONT INTERNAL ASSEMBLY

cowl former 1/8 PLY

SIG 4" COWL

CUT OUT FORMER FOR CLEARANCE OF SERVO AND SERVO MOUNTING RAILS

FORMER 3
1/8" PLY

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When you have registered your plans you will be sent via Email free of charge CAD plans for the Hergett ME209. This is another excellent design that has superb flight qualities. Your ability to use a CAD program saves you money!!

Printed full-size plans are available upon request from myself for those who don't have the capabilities to use the CAD version of the plans. Send $20.00 per set to the above address. You will receive a set of plans on 24" x 36" large pad USA. Specify, P-51 Mustang, TA 152 H or ME 109

R1 R2 all ribs 1/16" balsa

R3

WING FAIRING

Place waxpaper on wing. Slip wing into saddle. CA Glue 1/16" cross grain balsa to fuselage side, holding it down as you go to conform to wing shape. Add the shaped 1/8" plywood peices to the fuslage rear of the wing. Place balsa block on top of ply, to be shaped later. Add triangle 1/8" balsa wedge. Starting at rear of the wing at wedge, CA glue 1/64"ply to fuslage side and to 1/16" crossgrain balsa. Finish shaping rear balsa buildup block. This completes this strong lightweight structure.

3 oz. Fiberglass cloth center section

Firewall

R1 shear web

front and rear1/16" dihedral brace between ribs 1 & 2

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sheet 2 of 2
see page 1 for copy information

ROOT TEMPLATE

USE 1/16" BALSA SKINS OVER FOAM CORES.

TIP TEMPLATE

Add balsa block

1/2" x 1/4" leading edge

1/16" x 1/2 balsa sub-leading edge

A special thanks to Earl Seaholm, the 1997 Western National Combat Champion, who built and flew the first prototype. Earl was the driving force behind this successful project.

Thanks also goes to Doug Haacke for design and building tips.

1 1/2" dihedral under each tip

soft balsa tip block

1/64" ply

1/16" crossgrain balsa

glue wedge to balsa buildup block

1/16" top, bottom & center section sheeting

1/16" x 1/4" capstrips on top and bottom of ribs

vertical grain shearwebs along entire length of wing

3/16" x 3/16" balsa top and botton spars

R1 R2 R3 R4 R5 R6 R7 R8 R9

torque rod assembly

cut out aileron after assembly

3/16" up & down

1 1/2" trailing edge stock cut down to 1 1/4"

1/16" plywood wing bolt reinforcement on bottom of wing

1/8" balsa wedge

glue shaped 1/8" ply plate to fuslage side

Balsa buildup block glued onto 1/8" ply plate

sub rib

front dihedral brace

rear dihedral brace

All ribs 1/16" balsa

R3 R4 R5 R6 R7 R8 R9

R4 R5 R6 R7 R8 R9

1/16" crossgrain balsa cut slightly smaller than the 1/64" ply topskin

R9 R8 R7 R6 R5 R4 R3 R2 R1