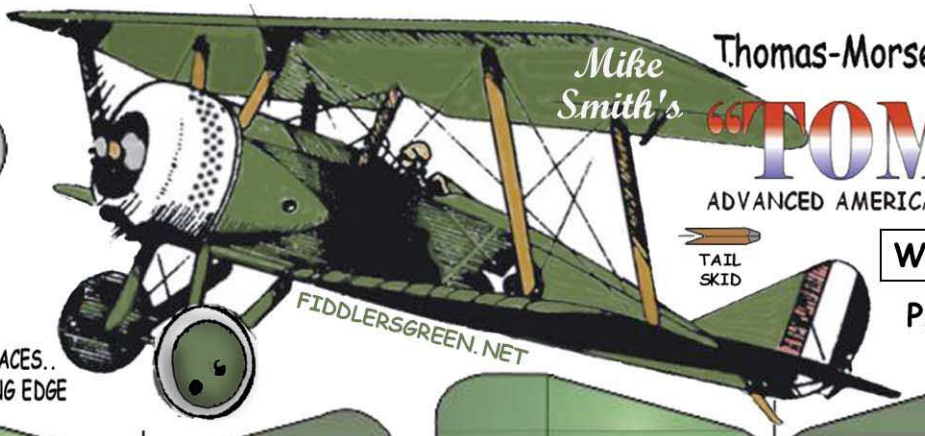
SEAT
(OPTIONAL)

SEE INSTRUCTONS
FOR GUNS

CURVE UPPER WINGS SURFACES..
FOLD (DON'T SCORE) LEADING EDGE



Mike Smith's

Thomas-Morse Scout S-4C "TOMMY"

ADVANCED AMERICAN WWI TRAINER

TAIL SKID

WSAM=63%

PAGE ONE

WING STRUTS
(SEE INSTRUCTIONS)

INSTALL THIS WING.. THEN FINISH GLUING FUSELAGE BOTTOM

STIFFEN WITH TOOTHPICKS

FOLD

LOWER WING

UPPER SURFACE

PROPELLER (FOLD AND GLUE)

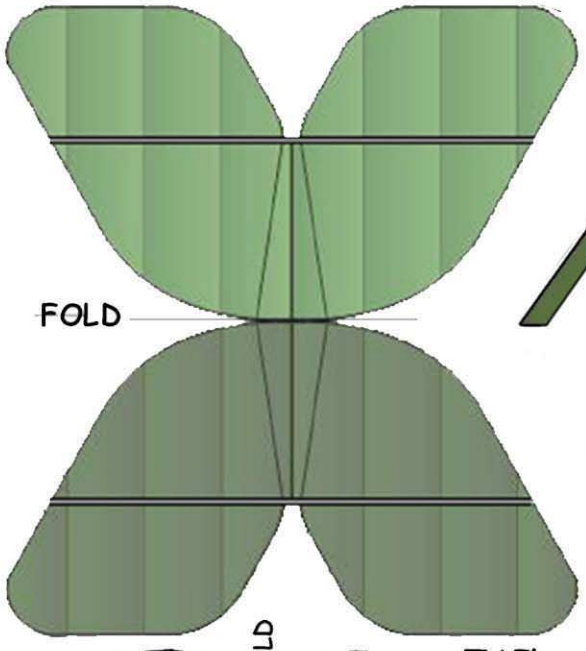
USE STRAIGHT PIN TO MOUNT PROPELLER AND ROTARY ENGINE

Mike Smith's

TOMMY

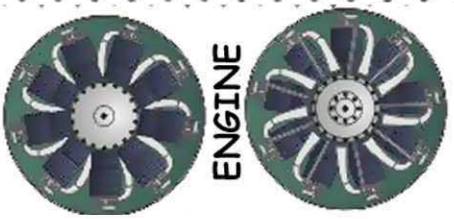
PAGE TWO

LOTS MORE INFORMATION WAITING FOR YOU OVER AT: WWW.FIDDLERSGREEN.NET



FOLD

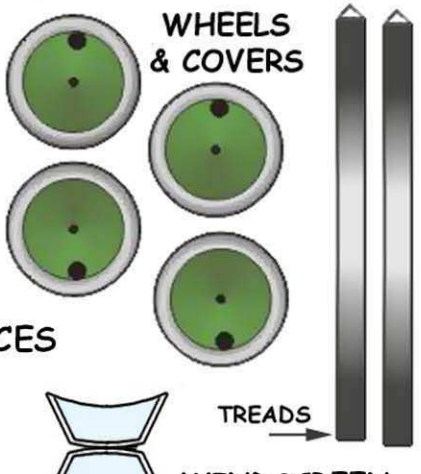
LANDING GEAR AND SPREADER



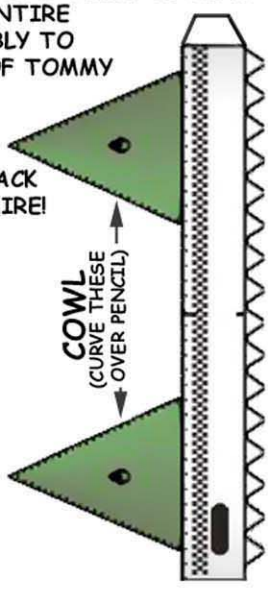
ENGINE

BUILDING TIP

1. FORM & GLUE COWL (BELOW)
2. AFIX COWL RING TO COWL
3. AFIX FRONT PIECE TO RING
4. AFIX ENTIRE ASSEMBLY TO NOSE OF TOMMY

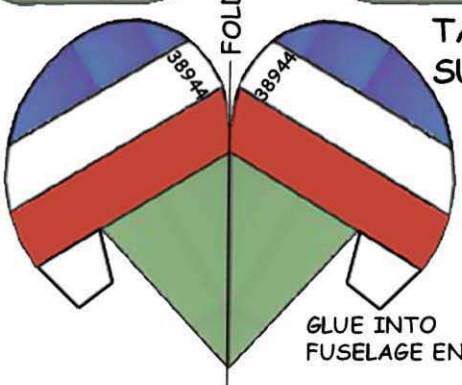


WHEELS & COVERS



5. STAND BACK AND ADMIRE!

COWL (CURVE THESE OVER PENCIL)



FOLD

38944

38944

TAIL SURFACES

TREADS

WINDSCREEN

GLUE INTO FUSELAGE END

FUSELAGE BOTTOM

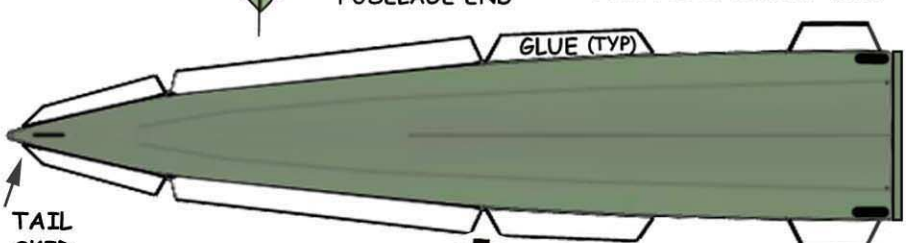
SCORE ALONG LINES AND FORM SLIGHT BOW

COWL RING

GLUE TABS

GLUE UNDER COWL RING

FRONT PIECE



GLUE (TYP)

TAIL SKID GOES HERE

ENGINE COWLING

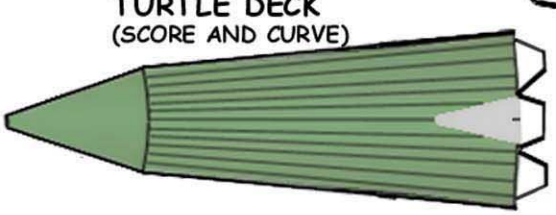
38944

GLUE COWL HERE

BEND

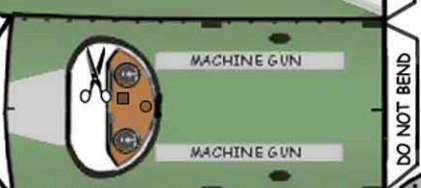
TURTLE DECK

(SCORE AND CURVE)



GLUE

HEAD REST



MACHINE GUN

MACHINE GUN

DO NOT BEND

CURVE TOP OF FUSELAGE

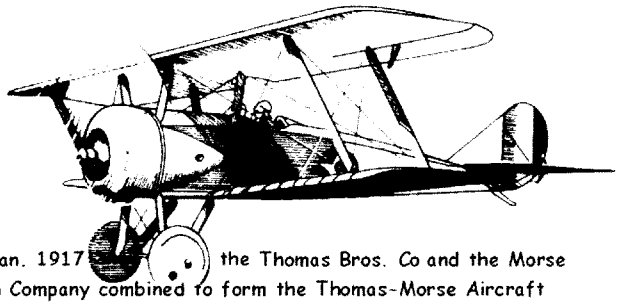
GLUE

38944

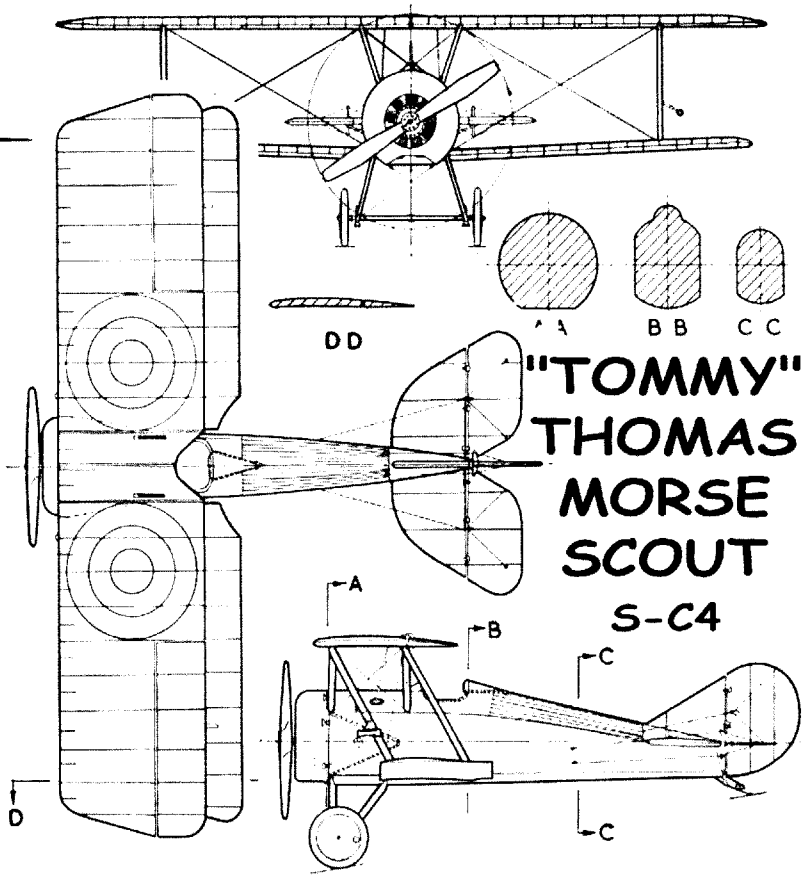
GLUE COWL HERE

GLUE TABS

MAX SPEED: 95 MPH
RANGE: 250 MILES
SERV. CEILING: 16,000 FT
RATE OF CLIMB: 1000 FT/12 MIN



"TOMMY" THOMAS MORSE SCOUT S-C4



In Jan. 1917 the Thomas Bros. Co and the Morse Chain Company combined to form the Thomas-Morse Aircraft Corp. Both companies had a long history in the then fledgling field of aircraft design and manufacture.

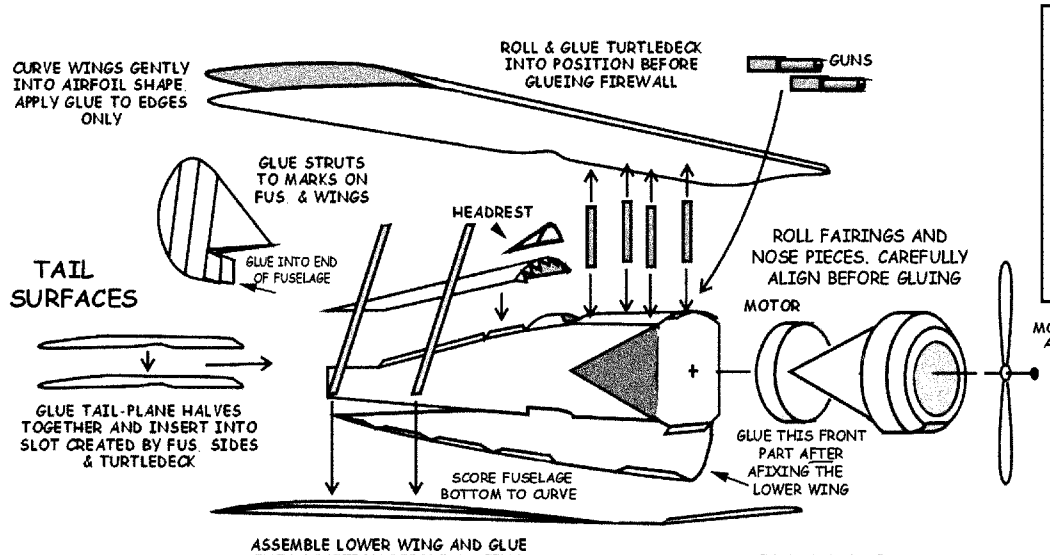
One of the first new designs of the new company was to become its most successful: the S-4, a single-seat scout type biplane with a 100hp Gnome rotary engine. Construction was typical of the period: wood with internal and external wire bracing. The S-4 made its initial flight in the spring of 1917.

Following successful test flights the S-4 was shipped to the Army's Experimental Flight Station in Hampton, Va. There it was evaluated as a potential advanced trainer for Army pursuit pilots before they went to the war front in France. The Army liked the S-4 except for its use of a Deperdussin type wheel control for the ailerons and its excessive tail heaviness

After replacing the wheel control with a standard joystick and an attempt to lighten the tail (never a complete success), the Army placed an order for 100 improved S-4Bs equipped with the Gnome 100 hp rotary engine.

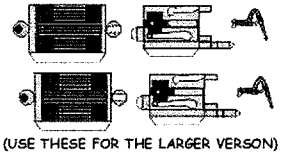
In Jan., 1918 the conventional wire control system was replaced with a pushrod and torque tube arrangement similar to the French Nieuport 17. This improvement resulted in the S-4C and an order for 400 aircraft by the Army. The S-4C's engine was to be the 80hp Le Rhone vs. The 100hp Gnome of the S-4B due to the latter's difficult starting and poor idling characteristics.

The Tommy exhibited standard gyroscopic coupling effects of all rotary-engined scouts, but otherwise was considered a pleasure to fly, sensitive on the controls, but docile in low-speed flight as long as right-hand rolls were not attempted. With the Gnome and its problems eliminated, the Tommy gained a good reputation at the flying field. Engineers could never quite eliminate the Tommy's characteristic tail heaviness however. In fact, pilots would often tie the stick forward in an attempt to relieve fatigue on long flights from constantly trying keep a nose down attitude.



SPECIFICATIONS

TYPE: ADVANCED FIGHTER-TRAINER
YEAR: 1917
ENGINE: 100 HP GNOME OR 80 HP LE RHONE
WINGSPAN: 26 ft 6 in (8.08m)
LENGTH: 19 ft 10 in (6.05m)
HEIGHT: 8 ft 1 in (2.46m)
WEIGHT: 1373 lbs (623 kg)
MAX SPEED: 95 mph (153 kph)
CEILING: 15000 ft (4573m)
ENDURANCE: 2 hrs 30min
ARMAMENT: 2 MACHINE GUNS
CREW: 1



(USE THESE FOR THE LARGER VERSON)

LOTS MORE INFORMATION AT: WWW.FIDDLERSGREEN.NET

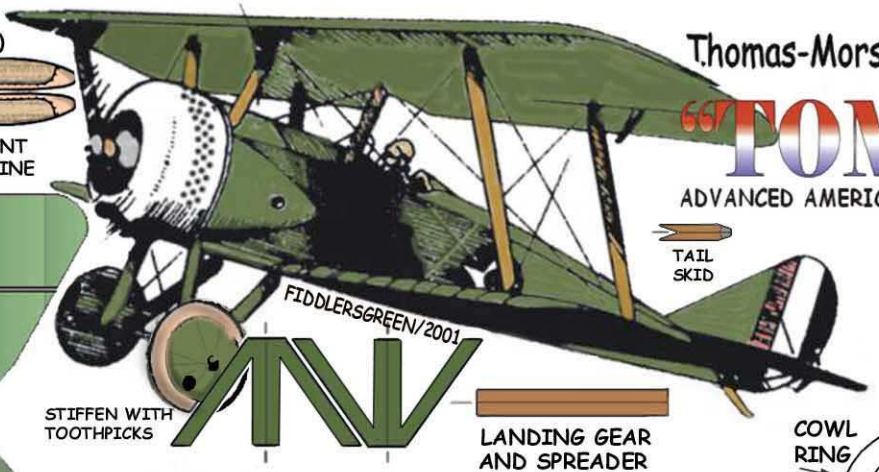
DESIGN AND INSTRUCTIONS BY MIKE SMITH, OHIO FOR FIDDLERSGREEN

Thomas-Morse Scout S-4C "TOMMY"

ADVANCED AMERICAN WWI TRAINER

PROPELLER (FOLD AND GLUE)

USE STRAIGHT PIN TO MOUNT PROPELLER AND ROTARY ENGINE



TAIL SKID

SEAT (OPTIONAL)

FIDDLERSGREEN/2001

FOLD

STIFFEN WITH TOOTHPICKS

LANDING GEAR AND SPREADER

COWL RING

GLUE TABS

GLUE UNDER COWL RING

FRONT PIECE

FUSELAGE BOTTOM

SCORE ALONG LINES AND FORM SLIGHT BOW

GLUE (TYP)

BUILDING TIP

1. FORM & GLUE COWL (BELOW)
2. AFIX COWL RING TO COWL
3. AFIX FRONT PIECE TO RING
4. AFIX ENTIRE ASSEMBLY TO NOSE OF TOMMY

TAIL SURFACES

FOLD

38944

GLUE INTO FUSELAGE END

TOMMY'S GUNS ARE IN THE INSTRUCTIONS

GLUE COWL HERE

BEND

TURTLE DECK

(SCORE AND CURVE)

GLUE

HEAD REST

MACHINE GUN

MACHINE GUN

DO NOT BEND

5. STAND BACK AND ADMIRE!

COWL

(CURVE THESE OVER PENCIL)

WING STRUTS

(SEE INSTRUCTIONS)

FOLD

STIFFEN WITH TOOTHPICKS

CURVE UPPER WINGS SURFACES.. FOLD (DON'T SCORE) LEADING EDGE

GLUE COWL HERE

GLUE TABS

LOWER WING

INSTALL THIS WING.. THEN FINISH GLUING FUSELAGE BOTTOM

WHEELS & COVERS

TREADS

WINDSCREEN

UPPER SURFACE

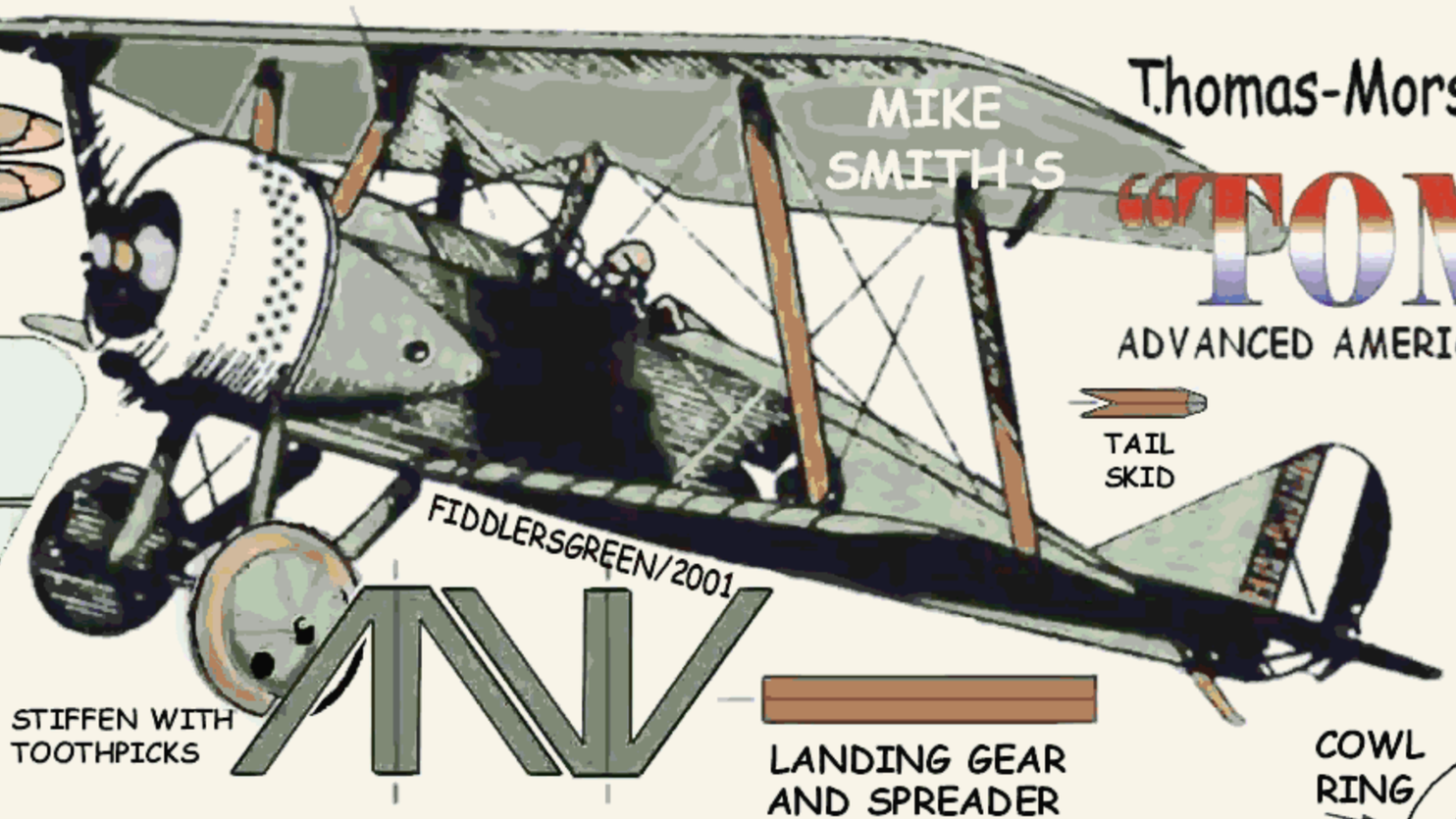
ENGINE

MIKE SMITH FOR FIDDLERS GREEN/2001

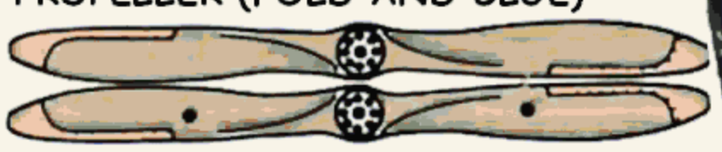
Thomas-Morse Scout S-4C

"TOMMY"

ADVANCED AMERICAN WWI TRAINER



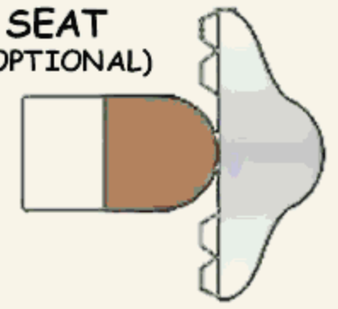
PROPELLER (FOLD AND GLUE)



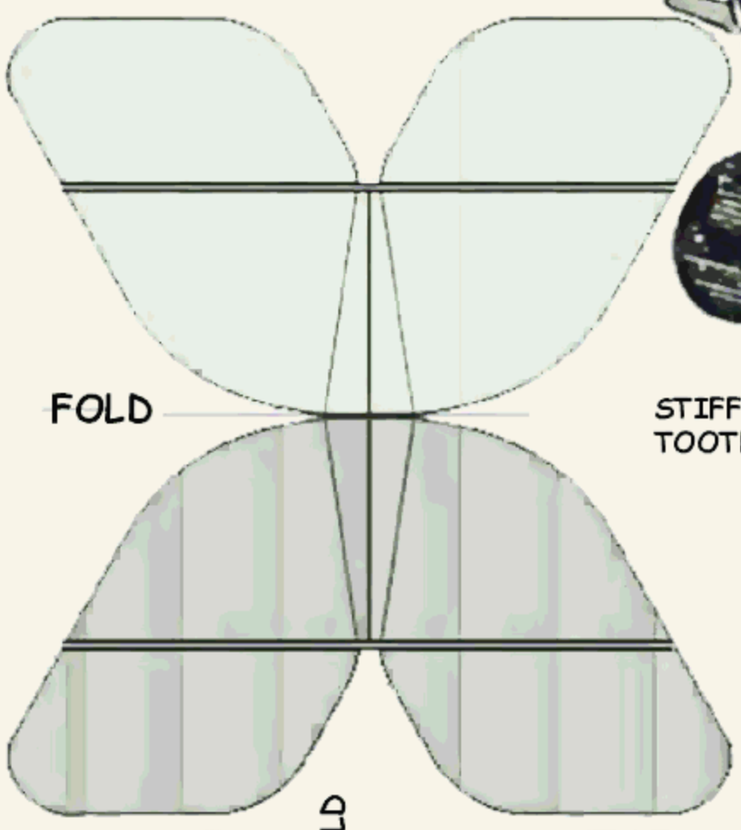
USE STRAIGHT PIN TO MOUNT
PROPELLER AND ROTARY ENGINE

TAIL SKID

SEAT (OPTIONAL)



FOLD

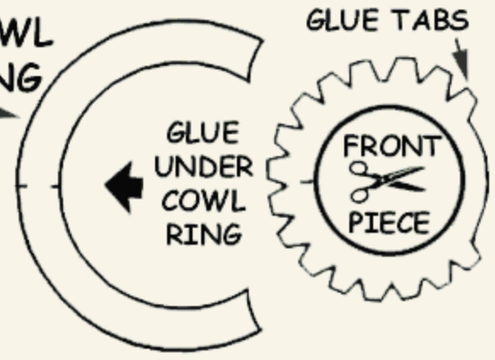


STIFFEN WITH TOOTHPICKS

LANDING GEAR AND SPREADER

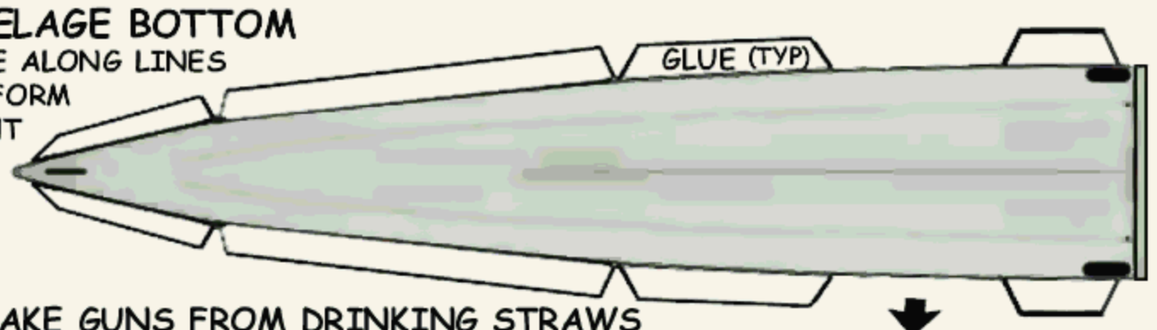
COWL RING

GLUE TABS



FUSELAGE BOTTOM

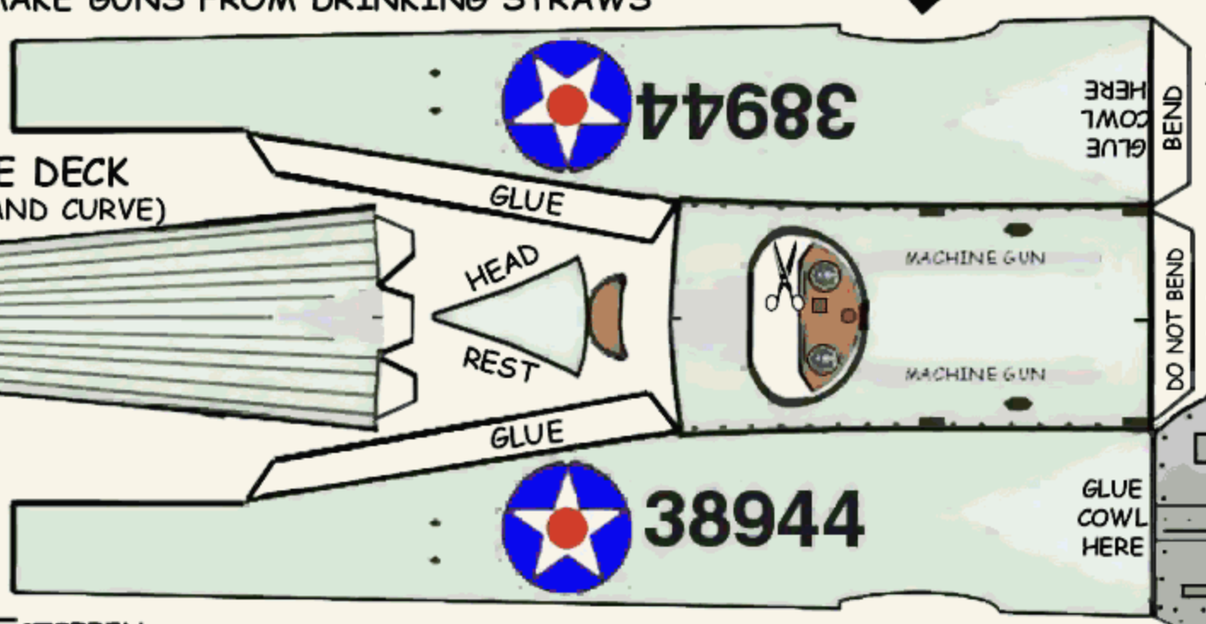
SCORE ALONG LINES AND FORM SLIGHT BOW



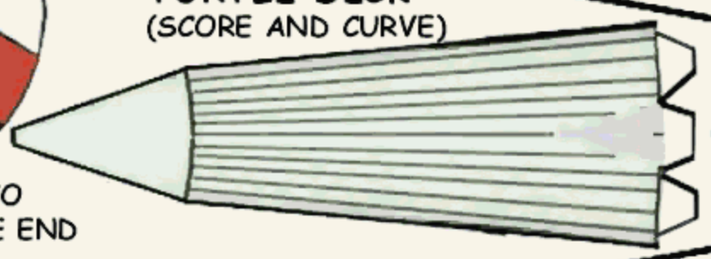
BUILDING TIP

1. FORM & GLUE COWL (BELOW)
2. AFIX COWL RING TO COWL
3. AFIX FRONT PIECE TO RING
4. AFIX ENTIRE ASSEMBLY TO NOSE OF TOMMY

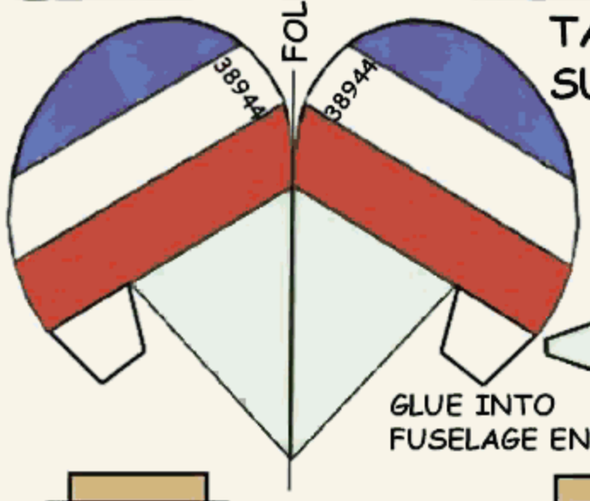
MAKE GUNS FROM DRINKING STRAWS



TURTLE DECK
(SCORE AND CURVE)

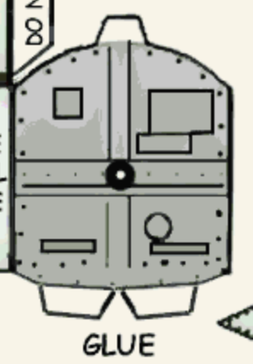


5. STAND BACK AND ADMIRE!

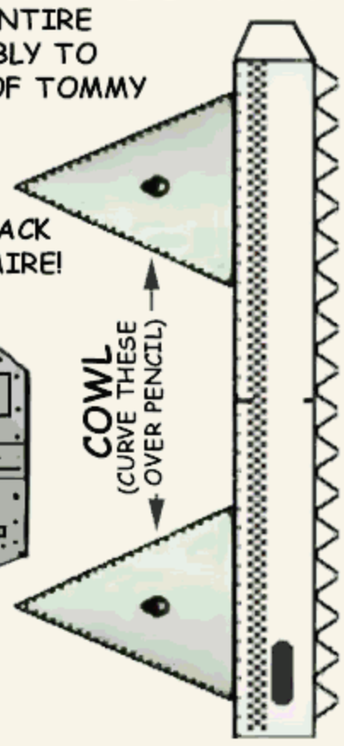


TAIL SURFACES

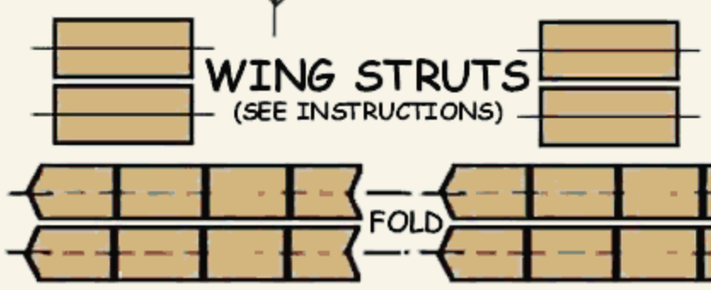
GLUE INTO FUSELAGE END



GLUE TABS

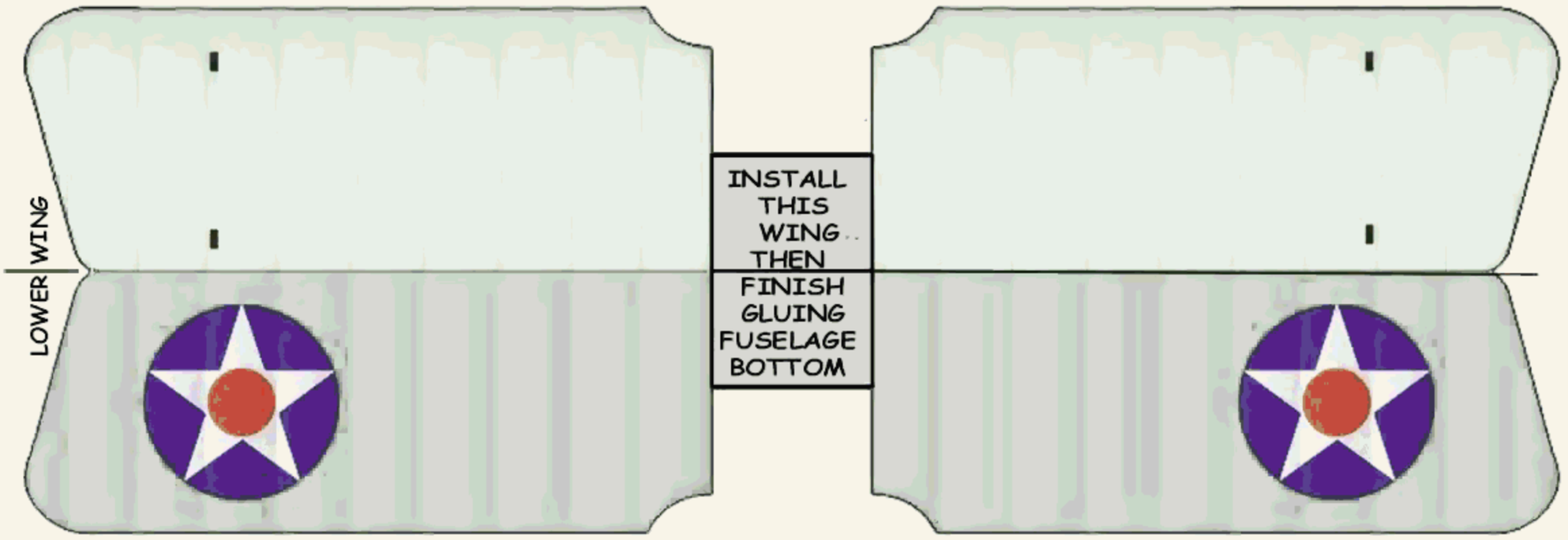


WING STRUTS
(SEE INSTRUCTIONS)



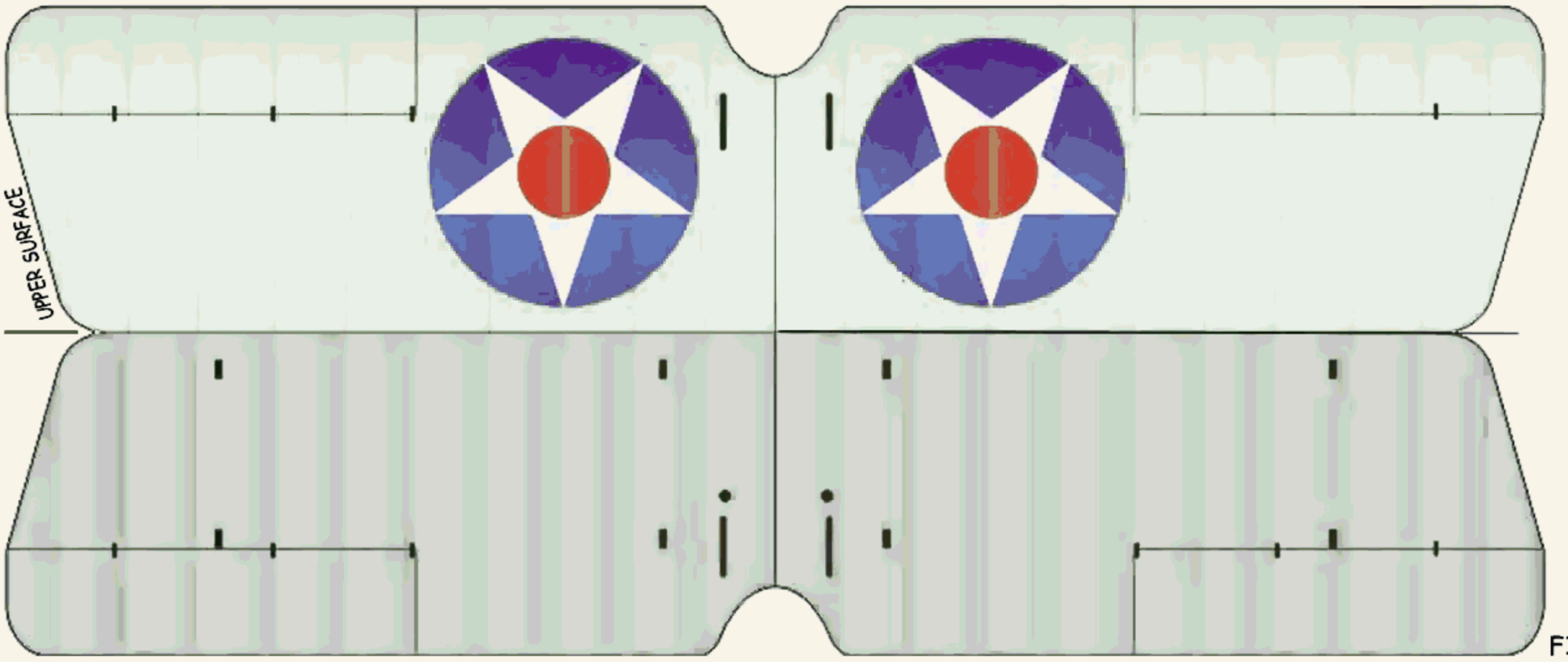
STIFFEN WITH TOOTHPICKS

CURVE UPPER WINGS SURFACES..
FOLD (DON'T SCORE) LEADING EDGE



WHEELS & COVERS

TREADS



ENGINE

MIKE SMITH FOR
FIDDLERS GREEN/2001

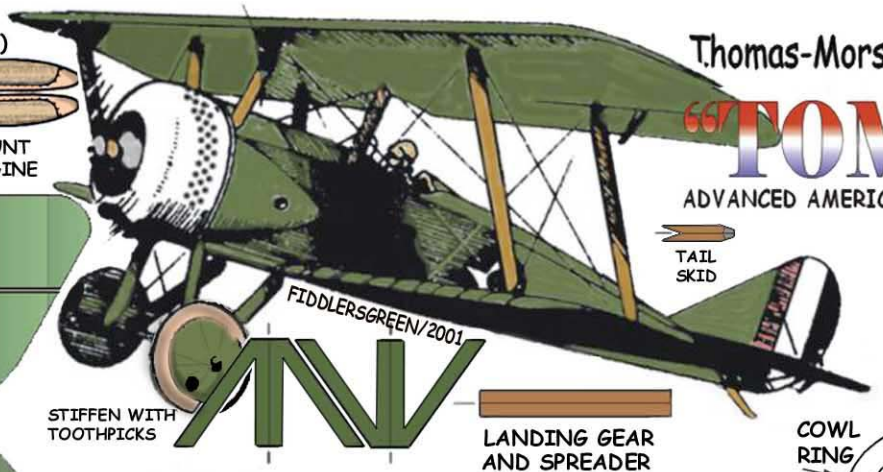
Thomas-Morse Scout S-4C

"TOMMY"

ADVANCED AMERICAN WWI TRAINER

PROPELLER (FOLD AND GLUE)

USE STRAIGHT PIN TO MOUNT PROPELLER AND ROTARY ENGINE



TAIL SKID

SEAT (OPTIONAL)

FOLD

STIFFEN WITH TOOTHPICKS

LANDING GEAR AND SPREADER

COWL RING

GLUE TABS

GLUE UNDER COWL RING

FRONT PIECE

FUSELAGE BOTTOM

SCORE ALONG LINES AND FORM SLIGHT BOW

GLUE (TYP)

BUILDING TIP

1. FORM & GLUE COWL (BELOW)
2. AFIX COWL RING TO COWL
3. AFIX FRONT PIECE TO RING
4. AFIX ENTIRE ASSEMBLY TO NOSE OF TOMMY

TAIL SURFACES

FOLD

38944

GLUE INTO FUSELAGE END

TOMMY'S GUNS ARE in THE INSTRUCTIONS

TURTLE DECK

(SCORE AND CURVE)

GLUE

HEAD REST

MACHINE GUN

MACHINE GUN

DO NOT BEND

GLUE COWL HERE

BEND

5. STAND BACK AND ADMIRE!

COWL

(CURVE THESE OVER PENCIL)

WING STRUTS

(SEE INSTRUCTIONS)

FOLD

STIFFEN WITH TOOTHPICKS

CURVE UPPER WINGS SURFACES..
FOLD (DON'T SCORE) LEADING EDGE

GLUE TABS

LOWER WING

INSTALL THIS WING.. THEN FINISH GLUING FUSELAGE BOTTOM

WHEELS & COVERS

TREADS

WINDSCREEN

UPPER SURFACE

ENGINE

MIKE SMITH FOR FIDDLERS GREEN/2001