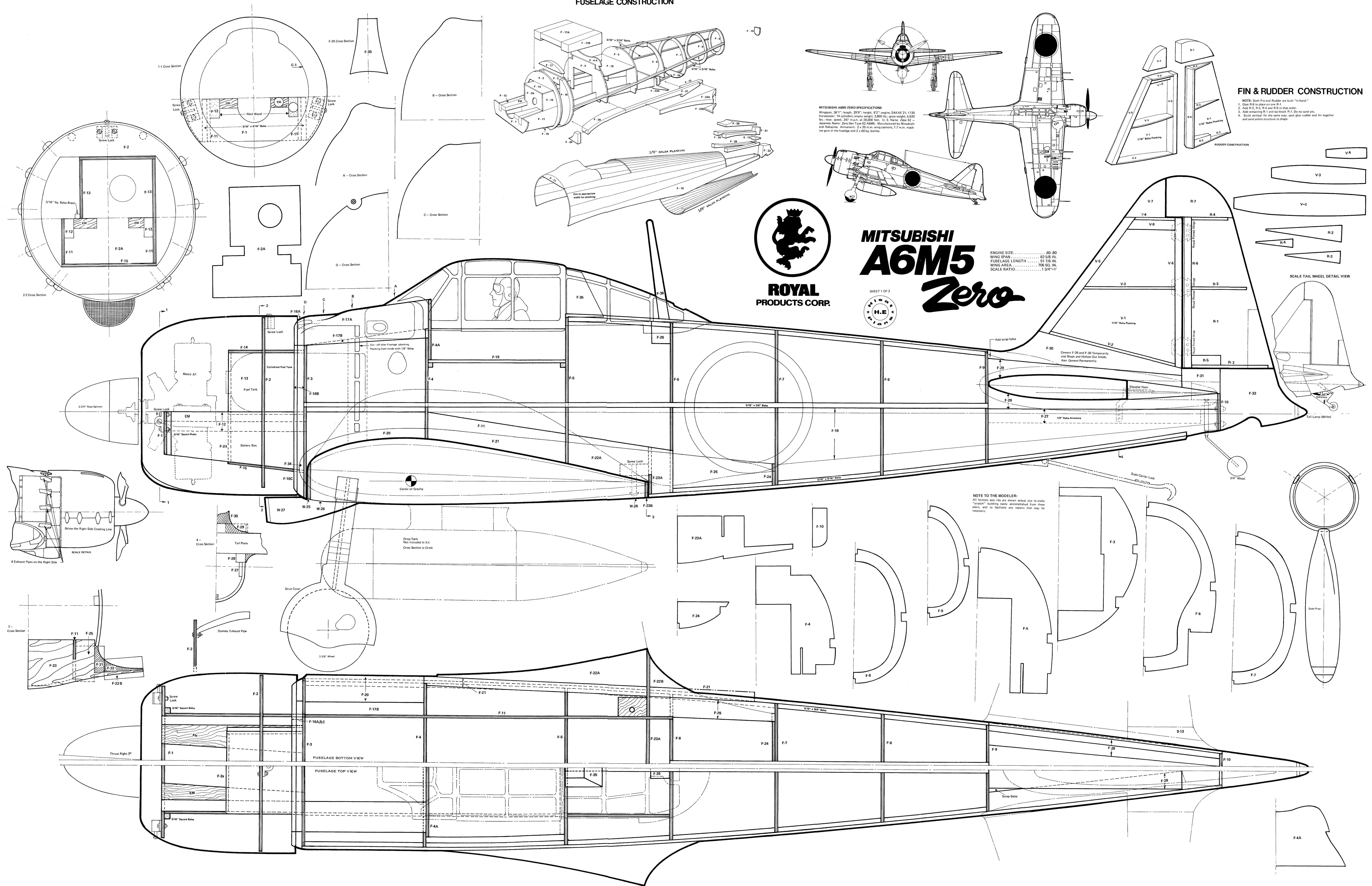
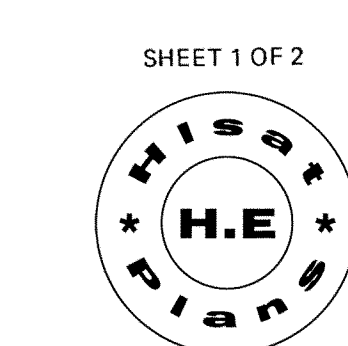


FUSELAGE CONSTRUCTION



ROYAL
PRODUCTS CORP.

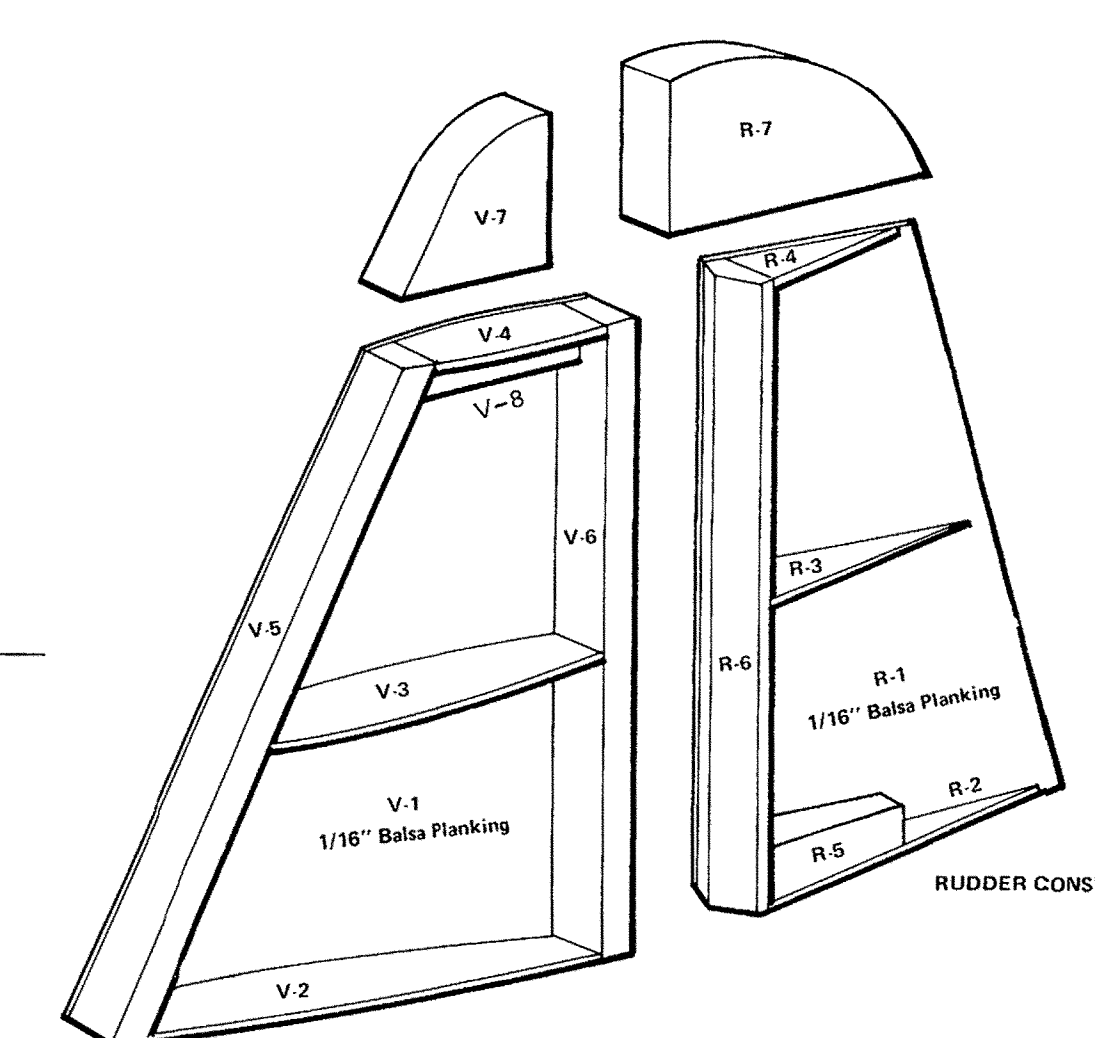
MITSUBISHI
A6M5
Zero



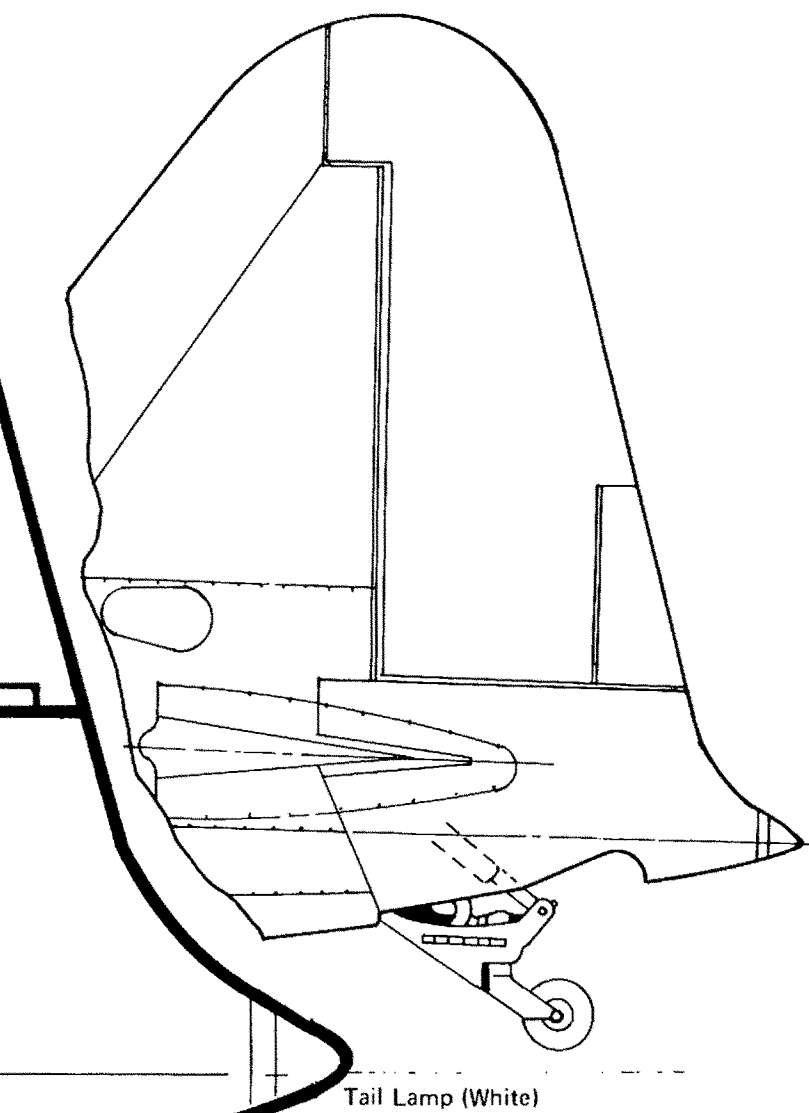
ENGINE SIZE.....60.80
WING SPAN.....62.58 IN.
FUSELAGE LENGTH.....51.78 IN.
WING AREA.....706 SQ. IN.
SCALE RATIO.....1/32"=1"

FIN & RUDDER CONSTRUCTION

NOTE: Both Fin and Rudder are built "in-hand."
1. Glue R-6 in place on rib R-1.
2. Add R-2, R-3, R-4 and R-5 in that order.
3. Add remaining R-1 and top block R-7. Do not sand yet.
4. Build vertical fin in the same way, spot glue rudder and fin together and sand entire structure to shape.



SCALE TAIL WHEEL DETAIL VIEW



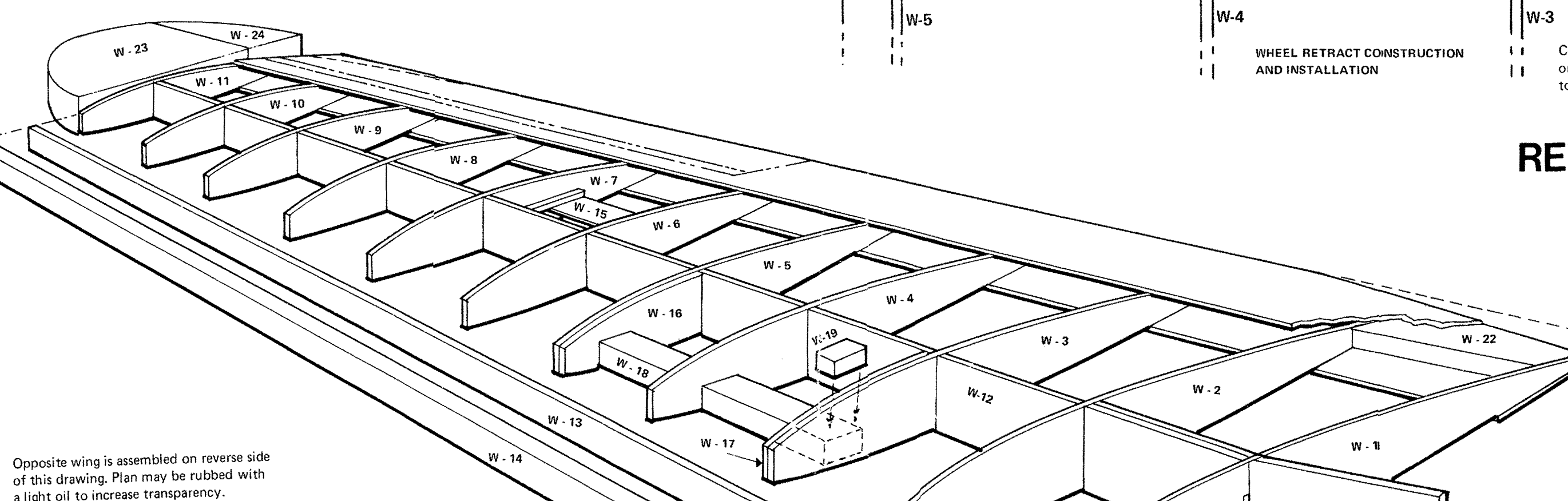
NOTE TO THE MODELER:
All forms and ribs are shown actual size to make "skeleton" building easier, accomplished from these plans, and to facilitate any repairs that may be necessary.

WING CONSTRUCTION

1. Draw centerlines on all wing ribs (W-1 through W-11).
 2. Pin the W-12 main spar in position.
- NOTE:** Step 2 requires rapid work to align the ribs to the fore spar. Have a piece of 1/8" square x 36" balsa on hand before starting Step 3.
3. Glue ribs W-1 through W-11 in place on W-12 spar, slip the 1/4" square balsa strip under the aft end of the ribs and adjust until all corners are equal. Pin the ribs to the spar and let dry.
 4. Add W-13 and let dry.
 5. Glue trailing edge sheet in place and mark aileron outline. Let dry thoroughly.
 6. Remove structure from work surface, and add aileron bulkhead, plate form and linkage.
 7. Pin structure to work surface upside down, add W-22 (between W-1 and W-2) and trailing edge sheet.
 8. Ailerons are now cut away, finished and installed with linkage to ball crank and aileron horn.
 9. Build opposite wing in the same manner.
 10. Add W-20 and W-21 dihedral braces when the two wing halves are joined.

NOTE: If retract gear is to be installed, follow procedure shown in "RETRACT GEAR INSTALLATION." If fixed gear is to be installed, proceed to Step 11.

11. Install W-16, W-17, W-18, and W-19 in that order.
12. When dry, add remaining top and bottom balsa sheeting (leave with tape while drying).
13. Trim leading edges and add W-14, W-25, and wing tip blocks (W-23 and W-24) in that order.
14. Seal entire structure to shape.
15. Failing blocks (W-26, W-27 and W-28) are shaped and added when wings are mated to fuselage.

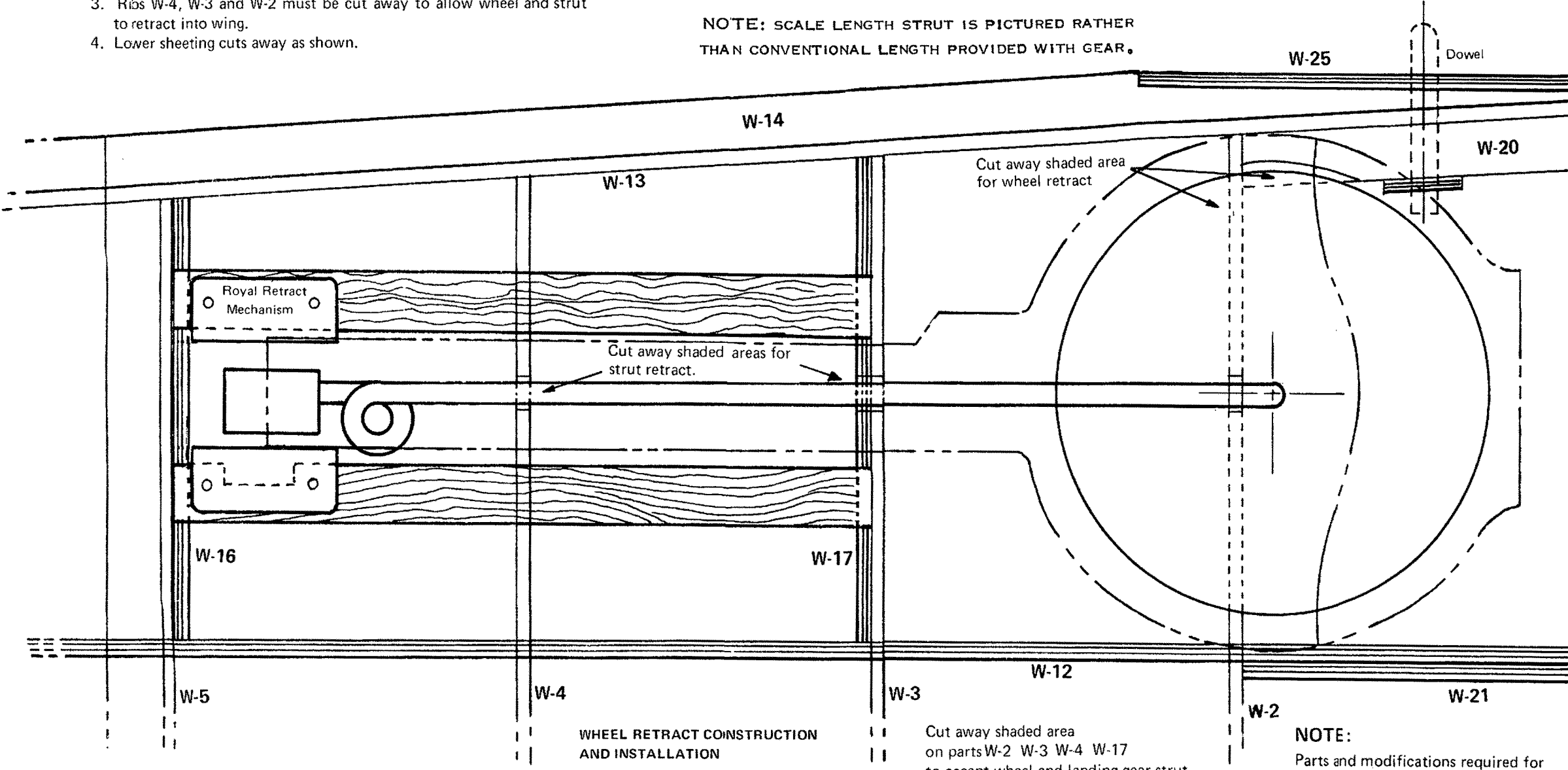


Opposite wing is assembled on reverse side of this drawing. Plan may be rubbed with a light oil to increase transparency.

DOWEL INSTALLATION
After finishing wing and fuselage framing, each glue W-25 to the bottom of each head F-3. Drill F-3 out using the holes in W-25 as a guide. Break W-25 into 2" and glue to the wing. Drill through hole in W-25 again, this time to allow dowel to anchor to the wing. Corner dowels in place.

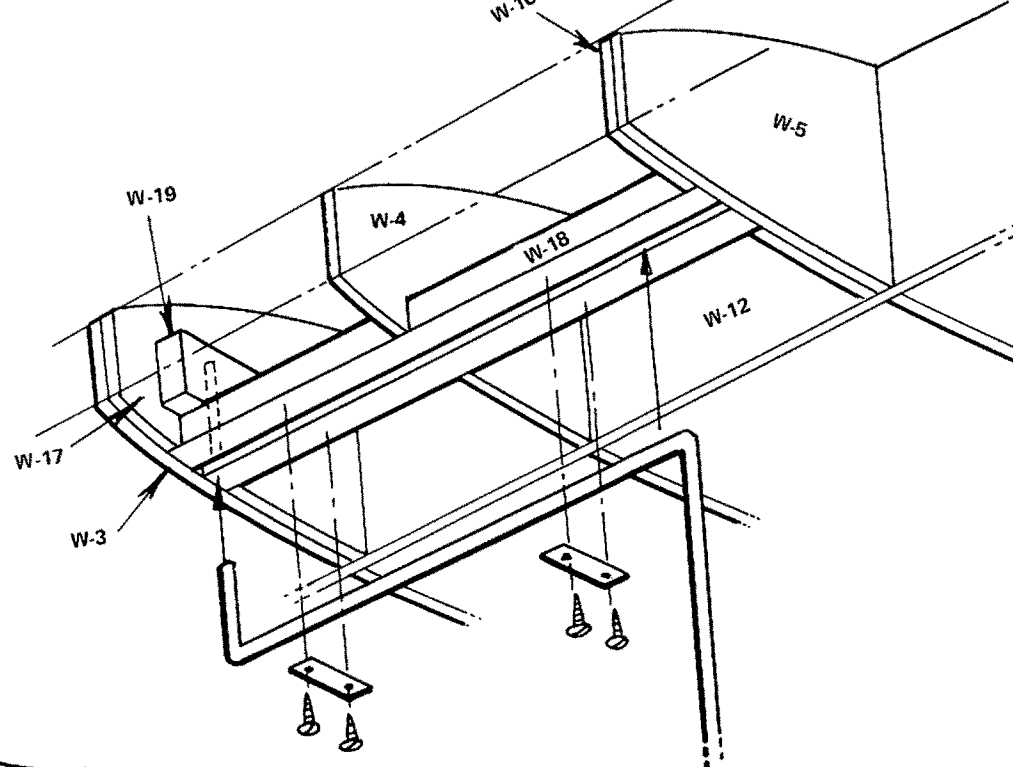
- ### RETRACT GEAR INSTALLATION
1. Rodify W-18 and W-17 to accept two hardwood rails as shown.
 2. Fasten gear mechanism mounts on rails as shown.
 3. Ribs W-4, W-3 and W-2 must be cut away to allow wheel and strut to retract into wing.
 4. Lower struts cut away as shown.

NOTE: SCALE LENGTH STRUT IS PROVIDED RATHER THAN CONVENTIONAL LENGTH PROVIDED WITH GEAR.



RETRACT INSTALLATION

FIXED GEAR INSTALLATION



HORIZONTAL STABILIZER CONSTRUCTION

1. Draw a center line on the inside side of S-2 and pin it in place.
2. Draw a centerline on the outside side of S-2 and pin it in place.
3. Glue S-2 in place with one S-1 corner brace, making sure that the brace is flush with the bottom of S-2.
4. Glue S-2 in place with one S-1 corner brace, making sure that the brace is flush with the bottom of S-2.
5. Align and glue ribs S-3, S-4, S-5, S-6, S-7, S-8, S-9, S-10, S-11, S-12, S-13, S-14, S-15, S-16, S-17, S-18, S-19, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-27, S-28, S-29, S-30, S-31, S-32, S-33, S-34, S-35, S-36, S-37, S-38, S-39, S-40, S-41, S-42, S-43, S-44, S-45, S-46, S-47, S-48, S-49, S-50, S-51, S-52, S-53, S-54, S-55, S-56, S-57, S-58, S-59, S-60, S-61, S-62, S-63, S-64, S-65, S-66, S-67, S-68, S-69, S-70, S-71, S-72, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-81, S-82, S-83, S-84, S-85, S-86, S-87, S-88, S-89, S-90, S-91, S-92, S-93, S-94, S-95, S-96, S-97, S-98, S-99, S-100, S-101, S-102, S-103, S-104, S-105, S-106, S-107, S-108, S-109, S-110, S-111, S-112, S-113, S-114, S-115, S-116, S-117, S-118, S-119, S-120, S-121, S-122, S-123, S-124, S-125, S-126, S-127, S-128, S-129, S-130, S-131, S-132, S-133, S-134, S-135, S-136, S-137, S-138, S-139, S-140, S-141, S-142, S-143, S-144, S-145, S-146, S-147, S-148, S-149, S-150, S-151, S-152, S-153, S-154, S-155, S-156, S-157, 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