

SCALE JUDGING GUIDE (CB - 8 - 80)

SCALE DATA: MAX 50 POINTS (_____)

REQUIRED: 0 points

<input type="checkbox"/>	Scale Factor
<input type="checkbox"/>	Photograph
<input type="checkbox"/>	Color Pattern Documentation (may be color photo)
<input type="checkbox"/>	Substantiating data / drawing other than kit materials

A drawing or table containing each of the following measurements for both the prototype and the model:

Model	Prototype	Measurement
<input type="checkbox"/>	<input type="checkbox"/>	Photograph
<input type="checkbox"/>	<input type="checkbox"/>	Color Pattern Documentation (may be color photo)
<input type="checkbox"/>	<input type="checkbox"/>	Substantiating data / drawing other than kit materials

In addition, the model must have:

<input type="checkbox"/>	Any launching attachment to be used (lug, strap, etc.) ATTACHED
<input type="checkbox"/>	NAR number visible on exterior of model

If any of the above entries are not checked, the model is **DISQUALIFIED**

SOURCE OF INFORMATION: 10 points (_____)

10 Points	NARTS Scale Packs: prototype manufacturer's drawings or specifications, users' manuals
5 - 9 Points	NASA or military "data sheets", model magazine plans, technical books and journals
0 - 4 Points	Generalized information such as public relations material, sales data, general information plans from magazines (Space World, Look, Aviation Week, and so on, kit manufacturer's plan, others

ADDITIONAL SUBSTANTIATION: 15 points (_____)

Award 0 -15 points for data which facilitated you judging; including additional dimensions, substantiating data, affidavits, paint samples, detail photos, arrangement of data, and so on.

PHOTOGRAPHS: 15 points (_____)

At least one color photo supplied: 5 points. Award 5 points for each additional applicable photo to a maximum of 15 points.

PAINT PATTERN: 10 points (_____)

10 Points	Color and paint pattern over entire vehicle will be substantiated, including details
7 - 9 Points	Most of color and paint pattern substantiated
4 - 6 Points	Only one view of vehicle is substantiated.
2 - 3 Points	Difficult to determine colors
0 - 1 Points	Difficult to determine pattern

PERTINENCE / PRESENTATION PENALTY: -20 points < _____ >

Deduct up to 20 points at the judges' discretion for: primary data not applicable to vehicle or round modeled; data presented in a manner that hinders or complicates judging.

ACCURACY OF MAJOR DIMENSIONS: MAX 200 POINTS (_____)

Judges must measure overall length, main body diameter, and nose cone length; and two other dimensions of their choice. For each dimension measured, award points as follows:

Points	Accuracy	Overall length	Main body diameter	Nose Cone length		
40	1% or better					
30	2% or better					
20	3% or better					
10	5% or better					
0	Less than 5%					

SCALE JUDGING GUIDE (CB - 8 - 80)

ACCURACY OF COLORS AND MARKINGS: MAX 100 POINTS (_____)

COLORS: 30 points (_____)

Start with 30 points and **deduct** 5 points for each incorrect color (hue, **NOT** texture) to a minimum of zero.

TEXTURES: 10 points (_____)

Start with 10 points and **deduct** 5 points for each incorrect texture. (ex. flat, glossy, burnished, shiny)

PAINT PATTERN: 40 points (_____)

40 Points	All paint correctly shown and positioned
20 - 30 Points	Some paint improperly shown or positioned
5 - 15 Points	Much of the paint pattern is missing or improperly positioned
0 Points	All of the pattern is wrong

MARKINGS: 20 points (_____)

20 Points	Insignia, numbers, letters, and there markings are shown, and correctly sized and positioned
10 - 15 Points	Some markings are incorrectly shown, sized, or positioned
0 - 5 Points	Most markings are incorrectly shown, sized, or positioned

ACCURACY OF DETAILS: MAX 50 POINTS (_____)

Do **not** consider quantity **OR** quality of detailing here. Consider only accuracy of **SIZE** and **POSITIONING**.

50 Points	Amount of detail shown is commensurate with scale factor. Details including rivet and bolt patterns are shown and are positioned and sized correctly.
25 - 40 Points	Some small detailing is out of proportion, or detailing is slightly out of proportion or position.
0 - 10 Points	Some gross detailing is missing, or some detailing is grossly out of proportion or position
25 Points	There is no detailing on the prototype to copy.

WORKMANSHIP: MAX 300 POINTS (_____)

NEATNESS: 100 points (_____)

Do not consider neatness of finish under this heading. It is covered under "QUALITY OF FINISH".

Fins: 35 Points (_____)

35 Points	Planform, edges, cuffs, cross-section, fillets, fin reinforcing, and so on are done neatly and well
25 - 30 Points	Fins are neatly done, but have some incorrectly done parts; or glue joints show
10 - 20 Points	Only fair neatness; many poor joints
0 - 5 Points	Fins sloppy

Nose Cone and Adapters 35 Points (_____)

35 Points	Both neat and well-constructed
25 - 30 Points	Either is lacking some neatness, or is poorly-constructed
15 - 20 Points	Both are lacking some neatness, or are poorly constructed
0 - 10 Points	Both are very poorly constructed and are very sloppy

Body 30 Points (_____)

30 Points	Body well-constructed and neat
20 - 25 Points	Body fairly well-constructed and neat
10 - 20 Points	Body fairly well-constructed and fairly neat
0 - 5 Points	Body poorly constructed and sloppy

CARE OF CONSTRUCTION: 80 points (_____)

Tube Seams: 20 Points (_____)

20 Points	All seams filled and invisible
10 - 15 Points	Some tube seams visible
0 - 5 Points	Most tube seams visible

SCALE JUDGING GUIDE (CB - 8 - 80)

Correctness of Lines: 20 Points (_____)

20 Points	All lines are correctly made
15 Points	Most lines are correctly made
10 Points	Many lines are correctly made
0 - 5 Points	Few lines are correctly made

Grain: 20 Points (_____)

20 Points	All grain in wood parts completely filled
15 Points	Most grain filled
10 Points	Much grain is not filled
0 - 5 Points	Almost no grain is filled

Correctness of Edges: 20 Points (_____)

20 Points	All edges are correctly made
15 Points	Most edges are correctly made
10 Points	Many are correctly made
0 - 5 Points	Few edges are correctly made

CRAFTSMANSHIP OF DETAILS: 60 points (_____)

The lack of detailing should **not** be penalized here, but under "DEGREE OF DIFFICULTY"

60 Points	Corrugations, indentations, shrouds, hatches, cover plates, external components, fin taper, rivets, bolts, markings, lettering, and so on are neat and well-made (including three-dimensional if the prototype is and if scale permits)
30 - 50 Points	Some parts that could have been three-dimensional are painted on, marked on, or are decals; but are neatly done
15 - 25 Points	Much detail is only fairly neat
0 - 5 Points	Most or all detail is sloppy
25 Points	There is negligible detailing on the prototype.

QUALITY OF FINISH: 60 points (_____)

Definition of Paint Pattern: 30 points (_____)

30 Points	Pattern well-defined
10 - 20 Points	Pattern fairly well-defined
0 - 5 Points	Pattern poorly defined

Neatness of Finish 30 points (_____)

This covers application, brush marks, hairs, shiny decals, and like items

30 Points	All of finish is neat
10 - 25 Points	Some of finish is not neat
0 - 5 Points	Most of finish is sloppy

DEGREE OF DIFFICULTY: MAX 200 POINTS (_____)

The entry should **NOT** be judged by how difficult the prototype is to model; rather, you are judging how difficult it was for the modeler to produce the resulting model. It does not matter how much more finely detailed one prototype is than another; it does matter how much of that detailing a scale modeler attempts to show. Do not consider how well it is shown; this consideration has already been made under "Workmanship". An exception can be made if the work is so grossly inadequate that it does not really count as an attempt to model a difficult feature. The criterion is basically: "How hard was it for him to do what he did?"

GENERAL DIFFICULTY: 100 points (_____)

Points to be considered are: Number of prototype stages; number of operating stages; number of fins; complexity of fins; number and complexity of nose cones and transitions; number of different body diameters. Consideration should also be given to how much of the model was made by the modeler (ex. Hand-made body tubes and nose cones); conversely, how much of the model was prefabricated (ex. In kit form or parts taken from kits) All of these should be weighed relative to the prototype's configuration (ex. A few very complex fins may be more difficult than many simpler fins)

FINISH: 50 points (_____)

Points to be considered are: Number of colors; complexity of color pattern; number of different groups of letters and markings; special markings or insignia; whether the markings were prefabricated; complexity of markings or insignia.

SCALE JUDGING GUIDE (CB - 8 - 80)

DETAILS: 50 points ()

Major External Components 20 points ()

Points to be considered are fin mounting devices; leading edge strips; shrouds; antennas; external boosters; spin rockets; prototype launch lugs; clamps; cable attachment; plates and so on.

Other External Detailing 30 points ()

Points to be considered are bolts; rivets; indentations; corrugations; and so on. These should be judged on number present and intricacy.

FLIGHT CHARACTERISTICS: MAX 100 POINTS ()

LAUNCHING: 10 points ()

Start with 10 points:

Deduct 6 points for tip-off or weathercocking. _____

Deduct 2 points for each misfire. _____

FLIGHT: 45 points ()

Start with 45 points:

Deduct up to 10 points for deviation from expected flight path. _____

Deduct up to 20 points for stability imperfections. _____

Deduct up to 5 points for flight behavior that differs from that of the prototype (boost phase only) _____

Deduct 5 points if the model has only one operating stage. _____

Deduct 10 points if more than one operating stage and staging failure occurs. _____

The entry is **DISQUALIFIED** if the flight is disqualified on safety or stability grounds.

RECOVERY: 45 points ()

Start with 45 points:

Deduct up to 10 points for badly-timed or incomplete deployment of recovery device. _____

Deduct up to 10 points for improper operation of recovery device during descent. _____

Deduct up to 25 points for damage caused by the flight and landing. If the model was caught before landing

(Only if CD permits!) deduct all 25 points regardless of damage. _____