

NARTREK

PLASTIC MODEL CONVERSION REQUIREMENTS

1. Build a commercially produced Plastic Kit of a Missile, Rocket, Jet/Rocket Airplane, or Space Vehicle. Models of fictional vehicles can be included
2. Convert model for flight following safe building and flying techniques. It is best to use a model that has a fairly large fin area as it will aid in stability of flight. The NAR Technical Services publication "Plastic Model Conversion" - PMC can be used as a guide for your conversion.
3. Model must not be extensively modified so that its appearance is changed. External Engine Mounts or Recovery Systems are not permitted. Model should display all markings of its original version. Such markings include all insignia, paint work, battle damage, if any. Extra detail work maybe added and will be judged for workmanship. Use of clear plastic fins is allowed, but will be judged on workmanship. With an independent observer, evaluate your model for Static Display in accordance with paragraphs 55.1-55.7 of the Pink Book. You may use either the attached guidelines or those included with your Silver Level packet to assist with the evaluation. Judging results from a Plastic Model Conversion event in a NAR sanctioned contest may also be used.
4. Photograph the model during the building stages, showing engine mounting and recovery system. Note: In many cases rear engine ejection may be necessary. If this is the case, photograph the recovery system for the engines and how this system will deploy the recovery system for the model. Also if the engine leaves the model it must have a streamer attached to it so that the engine is returned safely.
5. Successfully fly the model and recover it. Photograph the model on its launcher. With an independent observer, judge the models flight characteristics, recovery deployment, and landing damage, if any. The observer will write out his opinions of each and attach them to judging of the model (item 3).
6. Write a detailed report on your plastic conversion kit. Back up statements with photographs when possible. Be detailed and concise, and state any problems in the process of converting the model. Be sure to tell how you were able to overcome any and all problems. Rate the model conversion on a scale of 1 - 3: Easy (1); Difficult (2); or Very Difficult (3). Report will be judged for clarity and the ability for others to use for converting the same model.

National Association of Rocketry Training Rocketeers for Experience and Knowledge

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NOTE: To be eligible to work on this advance level, a model rocketeer must have completed successfully the Bronze, Silver, and Gold Achievement levels of NARTREK.

When you have completed the above requirements, submit the required materials to NARTREK Base. This material will be reviewed by a panel and their opinions of your conversion and report will be forward to you with the certificate and patch. This review will take about two or three weeks to compile. You may therefore start another Advance Level, if you so desire.

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PLASTIC MODEL CONVERSION JUDGING SHEET

Use this sheet for the point scoring, and either the Silver packet Always article or the attached criteria for judging.

CRAFTSMANSHIP:

Neatness and care in construction: (150 pts)

Craftsmanship of details: (100 pts)

Degree and quality of finish (100 pts)

General Appearance (150 pts)

DEGREE OF DIFFICULTY:

Asymmetries inherent in the model: (40 pts)

Intricacy of paint pattern: (80 pts)

Degree of detailing required: (80 pts)

Difficulty of stabilizing model: (50 pts)

Difficulty of adapting the model for flight: (50 pts)

Mission points: (200 pts)

General Flight: (100 pts)

Signature of Modeler: _____ NAR# _____

Signature of Judge: _____ Date: _____