



# NARTREK

## BRONZE ACHIEVEMENT LEVEL

### HOW TO USE THIS PACKET

This online copy of the NARTREK Bronze Achievement Level packet is part of a special NARTREK promotion. With this packet, any NAR member can try out the NARTREK program with no advance payment!

Here's how it works:

- Print out this Bronze packet.
- Following the directions, make your qualifying flights for each of the required achievements and obtain the required signatures.

At this point, if you enjoyed the program and would like to receive your official Bronze recognition material and/or continue with the Silver level:

- Attach the required documentation and photos for your flights.
- Fill out the "I Tried It And I Liked It" application form provided.
- Make out a check to "NARTREK" and include it in the packet. Fees are:
  - \$5 to receive your Bronze recognition only;
  - \$10 to receive your Bronze recognition and begin your Silver level;
  - \$20 to receive your Bronze recognition and sign up for Silver, Gold, and one advanced level of your choice (special price offer).
- Mail your packet to:

NARTREK Base  
George Scheil  
7311 Ditzler  
Raytown MO 64133

Please note that you must be a NAR member before you begin this NARTREK packet. (Go to <http://www.nar.org/NARjoin.html> to join the NAR online.)

Start on your NARTREK Bronze level today!



# NARTREK

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### I TRIED IT AND I LIKED IT!

In order to obtain your Bronze Level achievement recognition material, fill out this information form and include it in your mailing to NARTREK Base.

Name: \_\_\_\_\_ NAR #: \_\_\_\_\_

Street: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ ZIP: \_\_\_\_\_

I am enclosing my completed Bronze Level Requirement Forms, plus a check for:

- \$5 for my Bronze Level achievement recognition material *only*;
- \$10 for my Bronze recognition material *and* to sign up for the Silver Level;
- \$20 for my Bronze recognition material *and* to sign up for the Silver and Gold Levels, *plus* one free advanced level of my choice:
  - Research & Development
  - Ground Support
  - Static Display
  - Super Scale
  - Plastic Model Conversion
  - Radio Controlled Boost/Glider
  - Competition

Send to: NARTREK Base  
George Scheil  
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Welcome to the NARTREK program! We are happy that you have become a part of this exciting program and we believe that you will find it to be both challenging and fun. This Bronze level is your first step in reaching the Gold!

The Bronze level is designed to develop your knowledge and skills in four areas of the hobby. This is a basic level and may seem quite easy. However, you may find that this is not the case as you are required to meet strict requirements in all four areas.

Please note that the duration requirements state that you can only use a "B" impulse (or smaller) motor, and that the rockets must be recovered. There is no restriction on models or size of recovery device, though. The other motor restrictions are that you must use at least "A" impulse motors for both the booster and upper stages of the two-stage rocket, and you must use at least a "D" impulse motor for the fourth requirement.

Photo requirements may be met with one photo showing all of the rockets used in fulfilling the certification requirements, or any other number of pictures. If a picture shows more than one rocket, be sure to label the picture, indicating which rocket was used for which certification requirement. The same model may also be used for two or more certification requirements, such as parachute and streamer duration.

Many participants have customized rockets suitable for the Bronze requirements. They are welcome to use them. The same applies to those who like to use old plans. Just supply a brief description of what you used. Ready-to-fly or borrowed rockets are still excluded. While kits are the best choice for beginners, experienced builders are free to use more advanced construction methods.

If you have any questions or problems be sure to let NARTREK Base know. We will do our best to fully answer all of your questions by return mail.

All flights of this level must occur *after* you obtain this packet in order to count. If you have paid for additional levels, your Silver materials will be sent to you automatically along with your Bronze certificate. This process is repeated for each level thereafter, and there is no need to send in any additional registrations. If you have only paid for your Bronze certification, however, you must send in a new registration form for the next level. We'll remind you of this when we send you your Bronze Achievement Certificate.

If you have obtained this Bronze packet from the NAR website, you can complete the requirements and include your initial payment for the Bronze level (or all three levels) along with your Bronze flight documentation.

In closing, remember, model rocketry is more than just fun...it's *great* fun!

George Scheil  
NARTREK Base  
7311 Ditzler  
Raytown MO 64133  
nartrek@nar.org



# NARTREK

## BRONZE ACHIEVEMENT LEVEL

### Requirements

1. Make a successful flight of at least 60 seconds duration with a model rocket you have built from an existing model rocket kit of your choice, using a parachute as the recovery device. Use a motor of no more than "B" total impulse. Someone else must time the flight using either a stop watch or a watch with a second hand. Time the flight from the moment the rocket begins to move until it lands again. Complete the requirement certification sheet. Take a photograph of your model and attach it to the certification sheet.
2. Make a successful flight of at least 30 seconds duration with a model rocket you have built from an existing model rocket kit of your choice, using a streamer as the recovery device. Use a motor of no more than "B" total impulse. This model can be the same one used for the parachute duration requirement, with a streamer substituted for the parachute. Someone else must time the flight in the same manner as for the parachute duration flight. Time the flight from the moment the rocket begins to move until it lands again. Complete the requirement certification sheet. If your model is the same one use for the parachute duration requirement you do not have to take another picture of it. Simply note on the requirement certification sheet that it is the same model.
3. Make a successful two-stage model rocket flight using at least a type "A" motor in the lower and upper stages. Use a model built from an existing model rocket kit. You can use the same model rocket you built for the parachute and/or streamer duration requirements if you add a lower stage. Complete the requirement sheet. Take a photograph of the model and attach it to the certification sheet.
4. Make a successful flight of a model rocket that you have built from an existing model rocket kit that is propelled by a type "D" motor, or larger. Take a photograph of your model rocket and attach it to the completed requirement certification sheet.

NOTE: **Do not send individual requirement certification sheets to NARTREK BASE!**  
Wait until you have completed all four requirements before submitting your documents. Be sure to submit all four requirement certification sheets.



# NARTREK

## BRONZE ACHIEVEMENT LEVEL

### Parachute Duration Flight Requirement

I hereby certify that on \_\_\_\_\_ (date)  
I achieved a flight duration of \_\_\_\_\_ seconds  
with a parachute-recovered model rocket that I built from  
an existing model rocket kit \_\_\_\_\_ (kit name)  
manufactured by \_\_\_\_\_  
using a type \_\_\_\_\_ motor  
manufactured by \_\_\_\_\_.

Signed \_\_\_\_\_  
Print Name \_\_\_\_\_  
NAR# \_\_\_\_\_

I hereby certify that I timed the above flight and that all records are correct.

Signed \_\_\_\_\_  
Print Name \_\_\_\_\_

ATTACH PHOTO OF MODEL BELOW



# NARTREK

## BRONZE ACHIEVEMENT LEVEL

### Streamer Duration Flight Requirement

I hereby certify that on \_\_\_\_\_ (date)  
I achieved a flight duration of \_\_\_\_\_ seconds  
with a streamer -recovered model rocket that I built from  
an existing model rocket kit \_\_\_\_\_ (kit name)  
manufactured by \_\_\_\_\_  
using a type \_\_\_\_\_ motor  
manufactured by \_\_\_\_\_.

Signed \_\_\_\_\_  
Print Name \_\_\_\_\_  
NAR# \_\_\_\_\_

I hereby certify that I timed the above flight and that all records are correct.

Signed \_\_\_\_\_  
Print Name \_\_\_\_\_

ATTACH PHOTO OF MODEL BELOW



# NARTREK

## BRONZE ACHIEVEMENT LEVEL

### Two Stage Flight Requirement

I hereby certify that on \_\_\_\_\_ (date)

I achieved a successful two-staged flight

with a two stage model rocket that I built from

an existing model rocket kit \_\_\_\_\_ (kit name)

manufactured by \_\_\_\_\_

using a type \_\_\_\_\_ motor in the first stage

manufactured by \_\_\_\_\_, and

a type \_\_\_\_\_ motor in the second stage

manufactured by \_\_\_\_\_.

Signed \_\_\_\_\_

Print Name \_\_\_\_\_

NAR# \_\_\_\_\_

ATTACH PHOTO OF MODEL BELOW



# NARTREK

## BRONZE ACHIEVEMENT LEVEL

### "D" Motor or Larger Flight Requirement

I hereby certify that on \_\_\_\_\_ (date)  
I achieved successful model rocket flight  
with a model rocket that I built from  
an existing model rocket kit \_\_\_\_\_ (kit name)  
manufactured by \_\_\_\_\_  
using a type \_\_\_\_\_ motor  
manufactured by \_\_\_\_\_.

Signed \_\_\_\_\_  
Print Name \_\_\_\_\_  
NAR # \_\_\_\_\_

ATTACH PHOTO OF MODEL BELOW