



DataSnap™ Air Racer Experience

Quick Start Guide

Reimagine classroom engineering with the DataSnap Air Racer experience — a hands-on, air-powered alternative to traditional CO₂ car kits. This learning experience replaces single-use canisters with a reusable, safe, and engaging system that brings physics and engineering concepts to life.



PRODUCT INCLUDES:

- Ready-to-build Air Racer Kits
- Customization Component Kits*, each with:
 - Allen wrench
 - 2 front wheel types (narrow and wide)
 - 2 rear wheel types (narrow and wide)
 - Ballast weight washers
 - 2 rear wings (large and small)
 - 2 front wings (large and small)
 - 2 collision bumpers
- Pneumatic Race System
- DataSnap Motion Sensor*
- Motion Sensor Charging Case and charging cable*
- Downloadable curricula and Student Engineering Workbook
- 1-year limited warranty

Note: Quantities of items marked with an asterisk (*) vary depending on purchasing options.

NOTICE: To access your curricula and workbook, visit

www.crexo.com/datasnap-teaching-materials

ASSEMBLING THE AIR RACERS

For detailed instructions on how to assemble the Air Racers, see Lesson 1 of your Standard or Advanced DataSnap Air Racer Curriculum at:

www.crexo.com/datasnap-teaching-materials

LAUNCH CONTROLS

Sequence Lights:



 Hands Ready

 Countdown

 Launch



1. Race Mode Button
2. False Start Lights
3. Lane Activated Lights*
4. Master Key Control
5. Start Button

6. Launch Buttons
7. Mute Button**
8. Launcher Power Port
9. Air Compressor Port
10. Air Compressor

* **Note:** Indicate the racer is ready to launch.

****Note:** Mutes sounds made during the launch sequence.

- a. **Safe Air Release:** Empties system of compressed air
- b. **Cancel/Reset:** Ends current race sequence, deactivates launch
- c. **System Armed:** System is ready to start a launch sequence

SETTING UP THE PNEUMATIC RACE SYSTEM

1. Place the Race System on the floor with the finish line your desired length away from the launcher.



2. Plug the launcher into a wall outlet, then plug the compressor into the launcher.

WARNING: Only use the compressor included with the DataSnap Air Racer Experience.



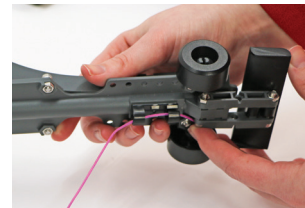
3. Unwrap the guide string on the finish line for both race lanes and hook them to the launcher, leaving the foam barrier at the end of the string near the finish line. Make sure both strings are taut with equal tension.



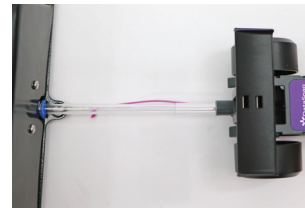
4. Insert the clear launch tubes into the launcher.



5. Using the hooks under the air racers, attach each racer to its guide string.



6. Slide the Air Racer onto the launch tube. The Lane Activated light will turn on when the Air Racer is positioned correctly.



7. Insert Master Key into the launcher and turn it to **Cancel/Reset**.

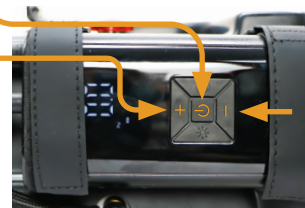
8. Press and hold the **Power** button to turn the compressor on.



9. Press the **+** and **-** buttons on the compressor to select your desired PSI.

WARNING: Do not set the PSI above 100.

10. Press the **Power** button on the air compressor to activate it and pressurize the system.

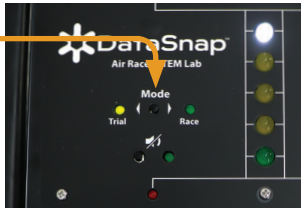


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11. Use the Mode button to select which mode you want to run a launch in.

- Trial Mode is for testing your Air Racers
- Race Mode is for competitive runs with your Air Racers

Note: The Mode can only be changed when the key is in the Cancel/Reset position.



12. Turn the Master Key to the **System Armed** position.



13. Once the race area is safely cleared and ready to launch, press the Start button to activate the Trial or Race Mode.

- **Trial Mode:** Press the Launch button. The Air Racers will automatically launch when the sequence light reaches green.
- **Race Mode:** Wait until the sequence light reaches green, then press the Launch buttons.
- **False Starts:** In Race Mode, if you press Launch before the light turns green, that is a false start. Reset the race and try again.



14. Turn the key to the **Cancel/Reset** position and repeat steps 5-13 for your next launch.

Note: You can stop a launch at any time by turning the key to the Cancel/Reset position. Turn the key to Safe Air Release to release air from the compressor.



STORAGE

1. Turn the Master Key to **Safe Air Release**.
2. Unplug the launcher from the wall outlet.
3. Push in the blue ring around the launch tube to release the tube.
4. Remove the guide string from the launcher and wrap it securely on the finish line.

CLEANING

Clean product with a damp cloth and mild soap.

DIGITAL CONTENT

We want to make sure you have the tools you need to get started in your classroom. Our Teaching Materials page houses this product's:

- Curricula
- Slide presentations
- Student Engineering Workbook

Access these resources at

www.crexo.com/datasnap-teaching-materials

ADDITIONAL HELP AND INFORMATION

We're here to help! Our product support team makes it easy for you to get support for products, software, and more, day or night. Contact product support here:

www.crexo.com/support



www.crexo.com



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