

Diono Radian 3R (50642)

Diono Radian 3R All-in-One Convertible Car Seat Instruction Manual

Model: Radian 3R (50642) | Brand: Diono

1. INTRODUCTION

The Diono Radian 3R is an all-in-one convertible car seat designed to grow with your child, offering safety and comfort from birth through booster stages. This manual provides essential information for the proper use, installation, and maintenance of your Radian 3R car seat.

Key features include its slim-fit design, allowing for three car seats across most vehicle backseats, and its robust steel core construction for enhanced safety. The Radian 3R is also FAA approved for airline use, making it a versatile option for travel.



Figure 1.1: The Diono Radian 3R All-in-One Convertible Car Seat in Blue Razz Ice, showcasing its full upright position with head support and harness system.

2. SAFETY INFORMATION

Your child's safety is paramount. The Diono Radian 3R car seat is engineered with advanced safety features to provide maximum protection.

2.1. Steel Core Construction

The car seat features a mechanically engineered, reinforced automotive-grade high-strength steel frame. This unique core shell shields and protects your child in the event of a collision.



Figure 2.1: Illustration of the automotive-grade steel core frame, highlighting the robust internal structure of the Radian 3R car seat.

2.2. Tested Safety Features

The Radian 3R has undergone rigorous testing to ensure superior protection:

- **Side Impact Tested:** Designed to protect your child in side-impact collisions.
- **Rollover Tested:** Certified for protection in rollover scenarios.



Figure 2.2: Visual representation of key safety and convenience features, including side impact and rollover testing certifications.

2.3. Weight and Height Limits

Adhere strictly to the following weight and height guidelines for each mode:

Mode	Minimum Weight	Maximum Weight	Minimum Height	Maximum Height
Rear-Facing	5 lbs	50 lbs	18.1 Inches	N/A
Forward-Facing (with Harness)	22 lbs	120 lbs	N/A	57.1 Inches
High-Back Booster	40 lbs	120 lbs	N/A	57.1 Inches

Always ensure the harness straps are at or below the child's shoulders for rear-facing and at or above the child's shoulders for forward-facing.

3. SETUP AND INSTALLATION

Proper installation is crucial for the safety of your child. Always refer to the full instruction manual provided with your car seat for detailed, step-by-step installation procedures specific to your vehicle and the chosen car seat mode.

3.1. Installation Methods

The Diono Radian 3R can be installed using your vehicle's LATCH system or the vehicle's seat belt. Ensure a tight and secure fit, with less than one inch of movement at the belt path.

3.2. Slim Fit Design

The slim-fit design of the Radian 3R allows for up to three car seats to fit across the back seat of most vehicles, making it ideal for growing families or carpooling needs.



Figure 3.1: Demonstrating the "3-across" capability of the Diono Radian 3R, showing three car seats fitting comfortably in a vehicle's back seat.

3.3. Travel Readiness

The Radian 3R is designed for travel convenience. It features a unique folding mechanism for compact storage and is FAA approved for airline use. This allows your child to sit securely in their car seat on the plane.

safe+® automotive grade steel core



Figure 3.2: The car seat's compact folding feature, illustrating its suitability for travel and storage in various environments, including an airplane overhead bin.

4. OPERATING MODES

The Diono Radian 3R offers four distinct operating modes to accommodate your child's growth from 5 to 120 pounds.

1. **Newborn Rear-Facing:** For infants starting from 5 lbs. Provides optimal safety for the smallest passengers.
2. **Rear-Facing Longer:** Extends rear-facing use up to 50 lbs, offering enhanced safety benefits for older toddlers.
3. **Forward-Facing with Harness:** For children weighing 22-120 lbs, utilizing the secure 5-point harness system.
4. **High-Back Booster:** For children weighing 40-120 lbs, transitioning to vehicle seat belt use with the added support of the car seat's high back.



Figure 4.1: The four versatile modes of the Diono Radian 3R, illustrating its adaptability for children from infancy to booster age.

4.1. Harness Adjustment

The 5-point harness system features multiple positions to adjust as your child grows, ensuring a snug and secure fit at every stage.

4.2. Comfort Features

The Radian 3R includes ComfortPlus Memory Foam for enhanced comfort during long journeys. It also comes with two XL cup holders for convenience.

5. MAINTENANCE

Regular maintenance helps ensure the longevity and cleanliness of your Diono Radian 3R car seat.

5.1. Cleaning Instructions

- **Covers:** The fabric covers are machine washable. Use cold water and line dry.
- **Shell and Components:** Spot clean the car seat shell and other components with a mild soap and water

solution.

Always ensure all parts are completely dry before reassembling or using the car seat.

6. TROUBLESHOOTING

If you encounter any issues with your Diono Radian 3R car seat, please refer to the following common troubleshooting tips. For more complex problems, consult the full product manual or contact customer support.

6.1. Common Concerns

- **Difficulty with Installation:** Ensure you are following the specific instructions for your chosen installation method (LATCH or seat belt) and car seat mode. Verify the car seat is tightly secured with minimal movement.
- **Harness Adjustment Issues:** Check that the harness straps are not twisted and are routed correctly through the appropriate slots for your child's height and the car seat mode.
- **Car Seat Weight for Travel:** While the car seat is designed for compact storage and FAA approval, its steel frame makes it heavier than some other models. Consider purchasing a travel bag or cart for easier transport through airports.

7. SPECIFICATIONS

Detailed specifications for the Diono Radian 3R car seat (Model: 50642):

Specification	Value
Product Dimensions	16.1 x 16.9 x 28.4 inches
Item Model Number	50642
Minimum Weight Recommendation	5 Pounds
Maximum Weight Recommendation	120 Pounds
Minimum Height Recommendation	18.1 Inches
Maximum Height Recommendation	57.1 Inches
Material Type	Alloy Steel, Plastic, Polypropylene, Polystyrene
Material Composition	95% Polyester, 5% Spandex
Care Instructions	Covers: Machine wash cold, line dry. Shell and Components: Spot clean
Number Of Items	1
Style	Radian 3R Fits 3 Across

Specification	Value
Number of Reclining Positions	1
Batteries Required	No
Orientation	Convertible Seat
Rear-facing Minimum Child Weight	5 Pounds
Rear-facing Maximum Child Weight	50 Pounds
Forward-facing Minimum Child Weight	22 Pounds
Forward-facing Maximum Child Weight	120 Pounds
Harness Type	5-Point
Item Weight	23.4 pounds
Installation Type	Latch
Color	Blue Razz Ice

8. WARRANTY AND SUPPORT

Diono products are manufactured to high-quality standards and come with a manufacturer's warranty. For specific warranty details, including coverage period and terms, please refer to the warranty card included with your product or visit the official Diono website.

8.1. Customer Support

For assistance with product registration, troubleshooting, replacement parts, or any other inquiries, please contact Diono customer support. You can find contact information and additional resources on the [Diono Brand Store on Amazon](#) or their official website.