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› Diono Radian 3QX 4-in-1 Rear & Forward Facing Convertible Car Seat, Safe+ Engineering 3 Stage Infant Protection, 10 Years 1 Car Seat, Ultimate Protection, Slim Fit 3 Across, Gray Slate

Diono 50321

Diono Radian 3QX Convertible Car Seat Instruction Manual

Model: 50321

PRODUCT OVERVIEW

The Diono Radian 3QX is an all-in-one convertible car seat designed to grow with your child from birth to booster, accommodating weights from 4 to 120 lbs. This model features Safe+ Engineering for enhanced safety, including 3 stages of infant protection and a 12-position adjustable headrest. Its slim-fit design allows for three car seats across in most vehicles, without compromising safety or comfort. Constructed with reinforced automotive-grade high-strength steel, the Radian 3QX provides a robust core shell for superior protection. It is also FAA approved for airline use and folds for convenient travel or compact storage.



Figure 1: The Diono Radian 3QX Convertible Car Seat in Gray Slate. This car seat is designed for children from 4 to 120 lbs, offering multiple modes of use.

KEY FEATURES

- **10 Years One Car Seat:** Designed to be the only car seat you'll need, transforming from birth to booster (4 - 120 lb) with 4 distinct modes.
- **SafePlus Rear-Facing Engineering:** Provides advanced protection for infants up to 50 lb, featuring a newborn baby travel high wedge, a 2-in-1 infant positioning liner, and a steel anti-rebound bar that reduces rebound rotation by up to 50%.
- **Slim-Fit 3-Across Design:** Engineered to fit three car seats across in most vehicle backseats, ensuring safety and comfort without compromise.
- **Steel Core Frame:** Mechanically engineered from reinforced automotive-grade high-strength steel, providing a unique core shell for superior child protection.
- **12-Position Easy-Adjust Headrest:** Offers a 22% increase in occupancy range compared to the Radian R series, with 6 layers of enhanced side impact protection.
- **Travel-Friendly Design:** The car seat folds for convenient travel or compact storage and is FAA approved for airline use.

10.....TM years one car seat



newborn rear-facing
from 4 lb | 1.8 kg



rear-facing for longer
up to 50 lb | 22.7 kg



forward-facing with harness
22 – 65 lb | 10 – 29.5 kg



high-back booster
40 – 120 lb | 18 – 54 kg

Figure 2: Illustration of the four modes of use for the Diono Radian 3QX: newborn rear-facing (from 4 lb), rear-facing for longer (up to 50 lb), forward-facing with harness (22-65 lb), and high-back booster (40-120 lb).



Figure 3: The slim-fit design of the Diono Radian 3QX allows for three car seats to be installed across the backseat of many vehicles, providing versatility for families.

SETUP AND INSTALLATION

Before installing the Diono Radian 3QX car seat, it is crucial to read both your car seat manual and your vehicle's owner's manual section on Child Safety Seats. Proper installation is vital for safety.

Booster Mode Preparation

When transitioning to booster mode, ensure the following steps are completed:

1. Read your car seat manual thoroughly.
2. Consult your vehicle manual for the section regarding Child Safety Seats.
3. Raise the adjustable bottom of the car seat.
4. Remove the 5-point harness and crotch buckle as directed in the manual.

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Video 1: This video demonstrates the preparation steps for using the Diono Radian 3QX in booster mode, including accessing the storage compartment for the top tether and SuperLATCH connectors, raising the adjustable bottom, and routing the vehicle's shoulder and lap belts for proper booster use.

The back of the car seat provides convenient storage for the top tether, SuperLATCH™ connectors, and the instruction manual. To raise the adjustable bottom, squeeze both metal bars and push up. The 12-position headrest can be easily adjusted with one hand to accommodate your child's growth.

3 stage complete rear-facing protection

1



safe+™
newborn travel
high wedge

2



safe+™
2-in-1 infant
positioning liner

3



safe+™
steel anti-rebound
bar



Figure 4: The three stages of complete rear-facing protection include the Safe+ newborn travel high wedge, Safe+ 2-in-1 infant positioning liner, and the Safe+ steel anti-rebound bar.

rear-facing for longer
up to 50 lbs | 22.7 kg

**reduces rebound
rotation by
50%**



Figure 5: The Safe+ steel anti-rebound bar helps to reduce rebound rotation by up to 50%, allowing for extended rear-facing use up to 50 lbs (22.7 kg).

OPERATING INSTRUCTIONS

Adjusting the Headrest

The 12-position headrest is designed for easy, one-hand adjustment. This allows you to quickly and accurately position the headrest to the correct height for your growing child, ensuring optimal safety and comfort. The headrest adjustment provides a 22% increase in occupancy range compared to previous Radian R series models.



Figure 6: The 12-position easy-adjust headrest allows for precise height adjustments, from a lowest position of 10.2 inches (26 cm) to a highest position of 26.4 inches (67 cm), accommodating a wide range of child heights.

Harness and Buckle System

The Radian 3QX features a secure 5-point harness system for children in rear-facing and forward-facing harness modes. Ensure the harness is snug and positioned correctly over your child's shoulders and hips. The Safe Stop® energy absorbing harness is designed to further enhance safety.

Booster Mode Belt Routing

When using the car seat in booster mode, place the Radian 3QX flat on the vehicle seat. Route the vehicle's shoulder belt through the upper belt guide and both the shoulder and lap belts through the lower belt guide. Buckle the seat belt securely. Always ensure the vehicle's seat belt is properly positioned across your child's shoulder and lap, as per the manual's instructions.



Figure 7: A baby comfortably seated in the Diono Radian 3QX in rear-facing mode, demonstrating proper infant positioning.

MAINTENANCE

Cleaning Instructions

To maintain the cleanliness and longevity of your Diono Radian 3QX car seat, follow these cleaning guidelines:

- **Covers:** Machine wash cold and line dry. Do not bleach or tumble dry.
- **Shell and Components:** Spot clean with a mild soap and water solution. Avoid harsh chemicals or abrasive cleaners.
- Regularly inspect the car seat for any signs of wear or damage to fabric, straps, or plastic components.



Figure 8: The Comfort+ memory foam cushion provides enhanced comfort for your child during travel.

TROUBLESHOOTING

If you encounter any issues with your Diono Radian 3QX car seat, please refer to the following common troubleshooting tips. For more detailed information, consult the full instruction manual or contact Diono customer support.

Problem	Possible Cause	Solution
Car seat feels loose after installation.	Improper belt path routing or insufficient tightening.	Ensure the vehicle's seat belt or LATCH connectors are routed correctly through the designated belt paths. Apply firm pressure to the car seat while tightening the straps to remove all slack. Refer to the installation section of the manual.
Harness straps are difficult to adjust.	Harness may be twisted or obstructed.	Check that the harness straps are not twisted. Ensure no clothing or other items are obstructing the harness adjuster mechanism.

Problem	Possible Cause	Solution
Headrest does not adjust smoothly.	Mechanism may be stiff or obstructed.	Ensure the adjustment lever is fully engaged. Check for any debris or fabric obstructing the headrest's movement along its tracks.

SPECIFICATIONS

Attribute	Detail
Product Dimensions	16 x 17 x 28.5 inches
Item Model Number	50321
Minimum Weight Recommendation	4 Pounds
Maximum Weight Recommendation	120 Pounds
Minimum Height Recommendation	18.1 Inches
Maximum Height Recommendation	57 Inches
Material Type	Alloy Steel, Plastic, Polypropylene, Polystyrene
Material Composition	100% Polyester
Harness Type	5-Point
Item Weight	31.3 pounds
Installation Type	Latch
Color	Gray Slate
Number of Reclining Positions	12
What's in the Box	radian® 3QX car seat, detachable rear-facing base, Safe+™ 2-in-1 infant positioning liner, Safe+™ anti-rebound bar, Safe+™ anti-slip comfort harness pads, cup holder, Safe Stop® energy absorbing harness, rear-facing top tether, Instruction manual

@diono® Radian® 3QX



Figure 9: Detailed technical dimensions of the Diono Radian 3QX car seat, including maximum height with headrest extended (31.9 inches), external width (17 inches), and folded depth (11.5 inches).

WARRANTY AND SUPPORT

For warranty information, product registration, or to contact customer support, please visit the official Diono website or refer to the warranty section of the included instruction manual. Keeping your purchase receipt is recommended for warranty claims. You can also visit the [Diono Store on Amazon](#) for additional product information and support resources.

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This manual is for informational purposes only. Always refer to the physical instruction manual included with your product for complete and up-to-date safety and usage information.

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