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acura rsx motor mount diagram

Published: September 3, 2026 | Index ID: #-

Acura RSX Motor Mount Diagram: A Complete Guide

Whether you're a seasoned mechanic or a dedicated owner looking to keep your 2002 2005 Acura RSX running smoothly, understanding the motor mount layout is essential. The **acura rsx motor mount diagram** is not just a technical illustration; it's a roadmap that helps you identify, diagnose, and replace the critical components that keep the engine securely anchored to the chassis. In this comprehensive article, we'll walk you through every aspect of the RSX motor mounts—from their purpose and design to step by step replacement instructions—so you can restore performance, eliminate vibrations, and extend the life of your vehicle.

1. The Acura RSX: A Quick Overview

The Acura RSX, known as the Integra in North America, is a compact, sport oriented coupe produced by Honda's luxury division between 2002 and 2005. It features a 2.0 liter inline four engine, a 6 speed manual or 6 speed automatic transmission, and a lightweight chassis that delivers sharp handling and responsive acceleration. The engine sits on a set of motor mounts that absorb vibrations, transmit torque, and keep the powertrain aligned. When these mounts fail, you'll notice excessive engine movement, rattles, or even damage to surrounding components.

2. Understanding Motor Mounts

What Is a Motor Mount?

A motor mount is a rubber filled or metal filled bracket that attaches the engine block to the vehicle's frame. Its primary functions are:

- Isolating engine vibrations from the chassis.
- Supporting the engine's weight.
- Maintaining proper engine alignment for drivetrain components.

Types of Motor Mounts in the RSX

Acura RSX models use a combination of **engine mounts** and **motor mounts**. The engine mounts are typically bolted to the engine block, while the motor mounts attach to the chassis. The RSX employs two main motor mounts:

1. Front motor mount (attached to the front of the engine block).
2. Rear motor mount (attached to the rear of the engine block).

Both mounts feature a rubber core for vibration damping and a metal frame for structural support.

3. Why the Motor Mount Diagram Matters

When you're troubleshooting engine noise or planning a repair, the **acura rsx motor mount diagram** becomes a critical reference. It shows:

- The exact mounting points and bolt locations.
- The orientation of the mounts relative to the engine and transmission.

- Key dimensions and part numbers that help you source replacements.

Without a clear diagram, you risk misidentifying parts, using incorrect bolts, or overlooking hidden damage.

4. Where to Find a Reliable Diagram

You can obtain the motor mount diagram from several reliable sources:

1. Official Acura Service Manuals – These include detailed schematics and are often available for purchase or via subscription.
2. Online automotive forums like AcuraRSXClub or IntegraTalk – Community members frequently share scanned diagrams.
3. Parts retailers such as AutoZone, RockAuto, or Honda Parts Direct – Many listings include exploded views and part numbers.
4. Technical service bulletins (TSBs) – These documents sometimes contain updated diagrams for specific issues.

When selecting a diagram, verify that it corresponds to the exact year and trim of your RSX (e.g., 2003 RSX GLX).

5. Reading the Motor Mount Diagram

Below is a simplified breakdown of what you'll see on a typical RSX motor mount diagram:

- Engine Block – Identified by the "E" label.
- Front Motor Mount – Usually labeled "FM" or "Front Motor Mount."
- Rear Motor Mount – Labeled "RM" or "Rear Motor Mount."
- Mounting Bolts – Represented by circles; the diagram will list bolt size and thread pitch.
- Mounting Points – Indicated by small squares or dots; these are the attachment points on the chassis.
- Dimensions – Distances between bolt holes, overall mount length, and clearance from other components.

Understanding these symbols allows you to match the diagram with the physical mounts on your vehicle.

6. Common Motor Mount Problems on the RSX

Motor mount failure can manifest in several ways:

- Excessive engine movement or "floating" during acceleration.
- Rattling or clunking noises when the vehicle is idling.
- Vibrations that transfer to the passenger compartment.
- Visible cracks or tears in the rubber core.

These symptoms often indicate that the mount's rubber has degraded or the metal frame has fractured. Timely replacement prevents further damage to the engine or transmission.

7. Tools and Parts Needed for Replacement

Before you start, gather the following items:

- Socket set (10 mm and 12 mm sockets are common for RSX mounts).
- Torque wrench (to ensure proper bolt tightening).
- New motor mounts (OEM or high quality aftermarket).
- Replacement bolts (often 10 mm or 12 mm, depending on the mount).
- Engine support jack or engine hoist.

- Brake cleaner or degreaser.
- Safety gloves and eye protection.
- Service manual or diagram for reference.

8. Step by Step Replacement Guide

Step 1: Prepare the Vehicle

Park the RSX on a flat surface, engage the parking brake, and disconnect the battery. Raise the front of the vehicle using a jack and secure it with jack stands. If you're replacing the rear mount, you may need to lift the rear or use a rear lift.

Step 2: Remove the Old Mount

1. Locate the mounting bolts on the front or rear mount as indicated in the diagram.
2. Use the appropriate socket to loosen and remove the bolts.
3. Carefully detach the mount from the engine block and chassis. You may need to wiggle it slightly to free it from any tight spots.
4. Inspect the mounting points for damage or corrosion.

Step 3: Install the New Mount

1. Position the new mount in alignment with the engine block and chassis.
2. Insert the mounting bolts, hand tightening them first.
3. Use the torque wrench to tighten bolts to the manufacturer's specifications (usually 70–90 ft lb for RSX mounts).
4. Double check alignment to ensure the mount sits flush against the engine and chassis.

Step 4: Verify and Test

Reinstall the battery, lower the vehicle, and start the engine. Listen for any unusual noises and feel for excessive movement. If everything feels solid, the replacement is successful.

9. Troubleshooting Common Issues After Replacement

- Persistent Vibration – Check that the new mount is correctly aligned and fully seated.
- Loose Mounting Bolts – Ensure bolts are torqued to spec; consider using threadlocker if recommended.
- Engine Movement During Acceleration – Verify that the mount's rubber core is intact and not damaged during installation.
- Noise from the Mount Area – Inspect surrounding components for loose fasteners or debris that may have been displaced.

10. Maintenance Tips to Extend Motor Mount Life

While motor mounts are designed to last for many miles, proactive care can extend their lifespan:

- Regularly inspect mounts for cracks or bulges.
- Keep the engine bay clean to prevent dirt from interfering with mounting surfaces.
- Avoid over torquing or under torquing bolts during future repairs.
- Use high quality aftermarket mounts that match OEM specifications.
- Replace mounts promptly if any symptoms arise.

11. Where to Buy Replacement Motor Mounts

Replacement mounts for the Acura RSX can be sourced from:

1. Official Acura Parts – Guarantees OEM quality.
2. Reputable aftermarket brands such as Hella, Delphi, or ACDelco.
3. Online marketplaces like Amazon, eBay, and RockAuto – These sites often provide part numbers and compatibility information.
4. Local auto parts stores – Many carry a selection of RSX motor mounts.

12. Warranty and Service Considerations

If your RSX is still under warranty, consult your dealer before making any modifications. Warranty coverage typically excludes motor mount replacements unless the failure is due to a manufacturing defect. For out of warranty vehicles, aftermarket parts often come with limited warranties that cover defects for a specified period.

Conclusion

The **acura rsx motor mount diagram**is more than a static illustration; it's an essential tool that guides you through the process of diagnosing, replacing, and maintaining the mounts that keep your engine firmly in place. By understanding the layout, recognizing common failure signs, and following a systematic replacement procedure, you can reduce engine vibration, prevent costly damage, and keep your RSX performing at its best. Whether you're a DIY enthusiast or a seasoned mechanic, a clear motor mount diagram combined with careful attention to detail will ensure a smooth, vibration free ride for years to come.

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