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Race-Driven RD-111SVE, RD-112SVE, RD-136SVE, RD-137SVE

Race-Driven Brake Pads Instruction Manual

For Yamaha Viking VI YXC700 YXM700 (2015-2022) Front & Rear

1. Product Overview

This manual provides essential information for the installation, operation, and maintenance of Race-Driven Severe Duty Sintered Metal Front & Rear Brake Pads. These brake pads are specifically designed for Yamaha Viking VI YXC700 and YXM700 models manufactured between 2015 and 2022.

Race-Driven exclusive sintered metal compound is engineered to perform exceptionally in extreme conditions, including mud, water, sand, and racing environments, ensuring increased durability and reliable stopping power.



Figure 1: Overview of Race-Driven Severe Duty Sintered Metal Brake Pads (Front & Rear sets).

2. Safety Information

WARNING: Improper installation or maintenance of brake components can lead to serious injury or death. If you are not confident in your mechanical abilities, seek assistance from a qualified professional technician.

- Always wear appropriate personal protective equipment (PPE), including safety glasses and gloves, when working on your vehicle.
- Ensure the vehicle is securely supported on a level surface using jack stands before beginning any work. Do not rely solely on a jack.
- Allow brake components to cool completely before handling. Hot brakes can cause severe burns.
- Brake dust may contain asbestos or other hazardous materials. Avoid inhaling dust and use a suitable respirator if necessary. Clean components with an approved brake cleaner, not compressed air.
- Do not reuse worn or damaged brake components.

- Properly dispose of old brake pads and fluids according to local regulations.

3. Package Contents

Verify that all components are present and undamaged upon opening the package. Each package contains:

- Race-Driven Severe Duty Sintered Metal Brake Pad(s) (quantity varies based on specific model and order, typically enough for one caliper or axle).



Figure 2: RD-111SV Brake Pad Packaging.



Figure 3: RD-112SV Brake Pad Packaging.



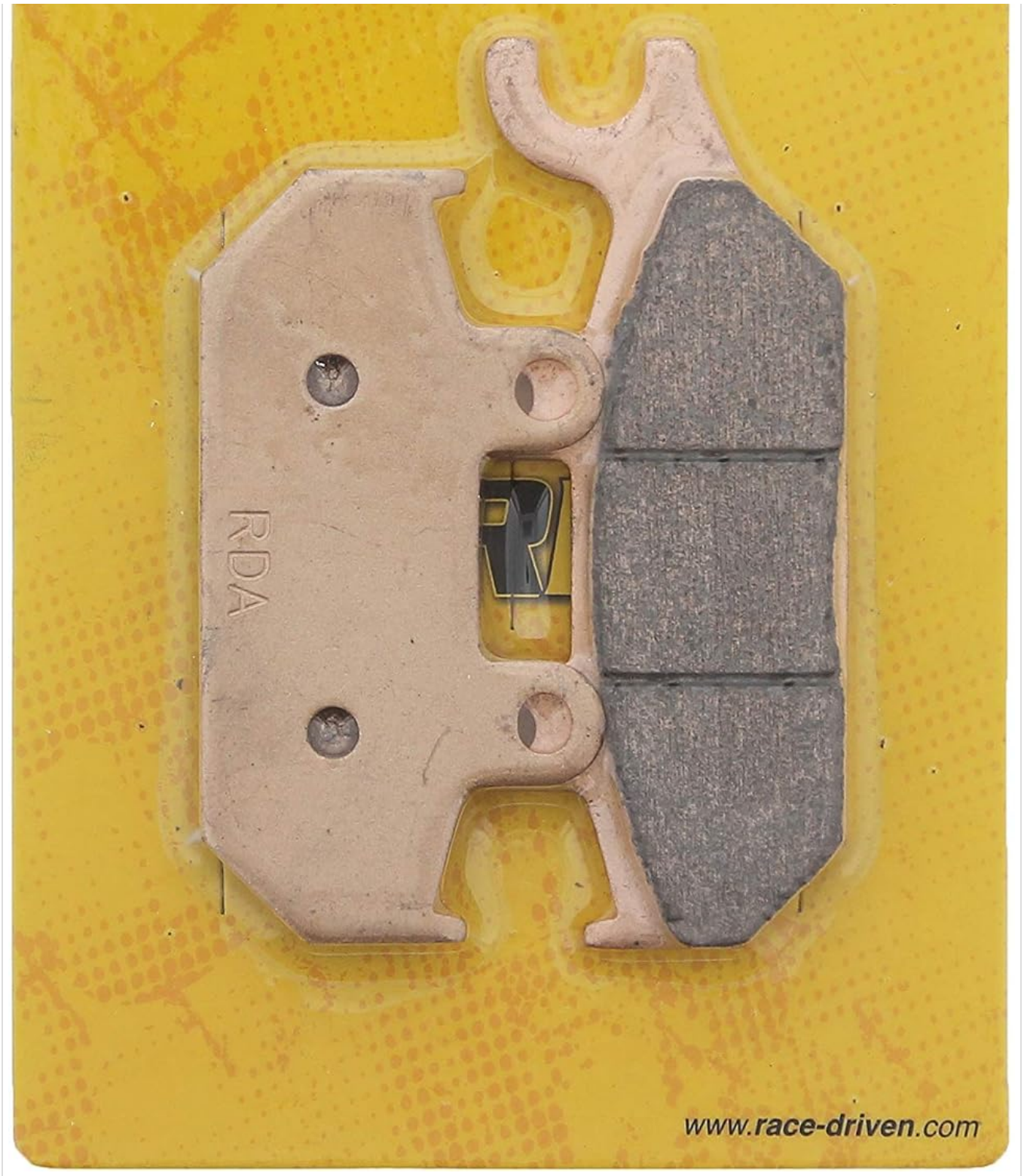

Figure 4: RD-136MU Brake Pad Packaging.





Figure 5: RD-137MU Brake Pad Packaging.

4. Installation Guide

This section provides a general guide for replacing brake pads. Specific procedures may vary slightly depending on your Yamaha Viking VI model. Refer to your vehicle's service manual for detailed instructions.

Tools and Materials Required:

- Vehicle service manual for your specific Yamaha Viking VI model
- Jack and jack stands
- Wheel lug wrench
- Socket set and wrenches
- C-clamp or brake caliper piston compression tool
- Brake cleaner spray
- Wire brush
- Brake lubricant (high-temperature, synthetic)
- Clean rags
- Brake fluid (DOT 4 recommended, check vehicle manual)
- Bleeder wrench and clear hose (if bleeding brakes)
- Drain pan for brake fluid (if bleeding brakes)

General Installation Steps:

1. **Prepare the Vehicle:** Park the vehicle on a flat, level surface. Engage the parking brake. Loosen the lug nuts on the wheels where brake pads will be replaced. Lift the vehicle using a jack and secure it with jack stands. Remove the wheels.
2. **Access the Caliper:** Locate the brake caliper. Depending on your model, you may need to remove retaining pins or bolts that hold the caliper in place. Carefully remove the caliper from the rotor, ensuring not to let it hang by the brake hose. Support it with a wire or bungee cord.
3. **Remove Old Pads:** Slide the old brake pads out of the caliper bracket. Inspect the brake rotor for wear, scoring, or warping. If necessary, resurface or replace the rotors.
4. **Clean and Lubricate:** Use a wire brush to clean any rust or debris from the caliper bracket and pad abutment clips. Apply a thin layer of high-temperature brake lubricant to the contact points where the brake pads slide within the caliper bracket. Do not get lubricant on the pad friction material or rotor surface.
5. **Compress Piston:** Before installing new, thicker pads, the caliper piston(s) must be compressed back into the caliper bore. Use a C-clamp or a dedicated brake caliper piston compression tool. Open the brake fluid reservoir cap before compressing to allow fluid to return. Monitor the fluid level to prevent overflow.
6. **Install New Pads:** Insert the new Race-Driven brake pads into the caliper bracket. Ensure they fit correctly and the friction material faces the rotor.
7. **Reassemble Caliper:** Reinstall the brake caliper over the new pads and rotor. Secure all retaining pins or bolts, tightening them to the torque specifications found in your vehicle's service manual.
8. **Bleed Brakes (if necessary):** If the brake system was opened or if the pedal feels spongy, bleeding the brakes may be necessary to remove air from the lines. Refer to your vehicle's service manual for the correct bleeding procedure.
9. **Reinstall Wheels:** Reinstall the wheels and hand-tighten the lug nuts. Lower the vehicle and then torque the lug nuts to the manufacturer's specifications.
10. **Pump Brake Pedal:** Before driving, slowly pump the brake pedal several times until it feels firm. This will seat the pads against the rotor and push the caliper pistons out. Check the brake fluid level and top off if necessary.

5. Operating and Break-in Procedure

New brake pads require a proper break-in (bedding-in) procedure to ensure optimal performance and longevity. This

process transfers a thin layer of friction material from the pads to the rotor surface, creating a more consistent braking surface.

Break-in Steps:

1. Find a safe, open area where you can perform several stops without interruption.
2. Accelerate to approximately 35 mph (55 km/h) and apply moderate braking pressure to slow down to about 5 mph (8 km/h). Do not come to a complete stop.
3. Repeat this process 8-10 times, allowing a short cool-down period between each stop (e.g., drive for 30 seconds without braking).
4. After the initial series of stops, drive for several minutes at a moderate speed without heavy braking to allow the brakes to cool down completely.
5. Avoid hard braking or prolonged heavy braking for the first 200-300 miles (320-480 km) after installation.

Note: Some noise or a slight burning smell may be present during the break-in period. This is normal.

6. Maintenance

Regular inspection and maintenance of your brake system are crucial for safety and performance.

- **Routine Inspection:** Inspect brake pads, rotors, calipers, and brake lines at least once a year or every 10,000 miles (16,000 km), or more frequently if operating in harsh conditions (mud, sand, water).
- **Pad Wear:** Replace brake pads when the friction material wears down to the minimum thickness specified in your vehicle's service manual, typically around 2-3mm.
- **Brake Fluid:** Check brake fluid level regularly and top off with the correct type of fluid (e.g., DOT 4). Brake fluid should be flushed and replaced according to your vehicle manufacturer's recommendations, typically every 2-3 years.
- **Cleaning:** Periodically clean brake components to remove dirt, mud, and debris, especially after off-road use. Use an approved brake cleaner.

7. Troubleshooting

This section addresses common issues you might encounter with your brake system.

Symptom	Possible Cause	Solution
Squealing/Grinding Noise	New pads bedding in, worn pads (metal-on-metal), debris, improper installation, glazed rotors.	Perform break-in procedure. Inspect pads for wear. Clean components. Reinstall correctly. Inspect/resurface rotors.
Spongy Brake Pedal	Air in brake lines, low brake fluid, faulty master cylinder.	Bleed brake system. Check fluid level and leaks. Consult a professional.
Reduced Braking Performance	Improper break-in, contaminated pads, worn pads/rotors, caliper issues.	Perform break-in. Inspect for fluid leaks on pads. Replace worn components. Inspect calipers.

Symptom	Possible Cause	Solution
Vibration During Braking	Warped rotors, uneven pad wear.	Inspect/resurface/replace rotors. Inspect pads.

If you experience persistent issues or are unsure about any problem, it is highly recommended to consult a qualified mechanic.

8. Specifications

Attribute	Detail
Brand	Race-Driven
Model Numbers	RD-111SVE, RD-112SVE, RD-136SVE, RD-137SVE
Auto Part Position	Front, Rear
Vehicle Service Type	ATV (Yamaha Viking VI YXC700 YXM700)
Automotive Fit Type	Vehicle Specific Fit (2015-2022 Yamaha Viking VI YXC700 YXM700 4x4 All Models)
Material Type	Severe Duty Sintered Metal
Item Weight	Approximately 2.19 pounds (total package)
Product Dimensions	Approximately 12.5 x 9.5 x 1 inches (package)
UPC	191916521083

9. Warranty and Support

Race-Driven products are designed for high performance and durability. For specific warranty information regarding your brake pads, please refer to the documentation included with your purchase or visit the official Race-Driven website.
As per the seller "Race-Driven Inc", a return policy of 30 days for refund/replacement is typically offered. Please check your purchase details for the exact terms.
For technical support or inquiries, please contact Race-Driven customer service through their official channels. You can often find contact information on their website or through the retailer where the product was purchased.

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