



VOLVO  
**S60 R AND V70 R** 2004

**VOLVO**  
for life





## PERFORMANCE ON DEMAND

It's a new breed of high-performance car. Built around the driver who simply demands more. More power. More agility. More refinement. And more interaction with the car. All without compromising either peace of mind or everyday versatility. The new Volvo S60 R and V70 R have arrived.



# VOLVO V70 R

The spirited sports wagon – high-performance entertainment and convenience for the whole family, including four-legged friends.

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## VOLVO S60 R

The enticing sports sedan – awesome entertainment including long-distance comfort for up to five people.





## UNCOMPROMISINGLY OPTIMIZED

Extended front spoiler for greater downward thrust. Enlarged air duct to cool the 300 bhp engine. Aerodynamic front with Bi-Xenon headlamps and projector type front fog lamps. R aluminum wheels. Subtle rear spoiler to reduce rear lift by 20% on the Volvo S60 R. No grand gestures. Just efficient design that does the job – on the road or on the track.





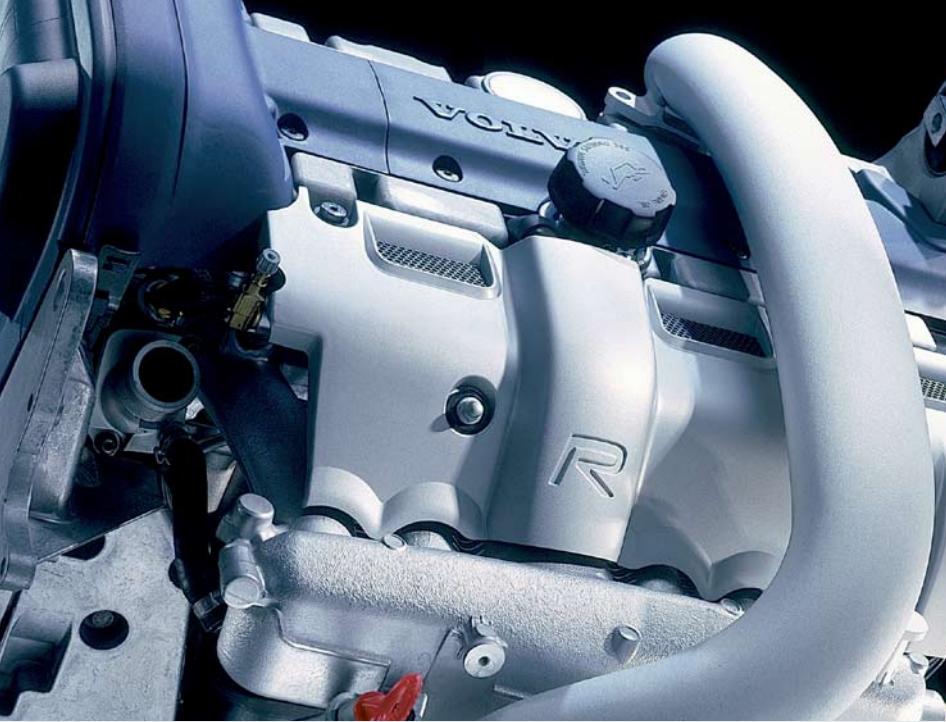
It all starts as you grasp the leather-trimmed R steering wheel ... as you feel the distinct yet pliant support from the sculpted leather sports seat ... start the engine ... thrill to that inspiring sound ... select the most spirited chassis mode ... take off ... sense the uncompromising traction ... the acceleration ... knowing that the serious fun has only just begun.



"Cars are driven by people. The guiding principle behind everything we make at Volvo, therefore, is – and must remain – safety."

Assar Gabrielsson and Gustaf Larson,  
the founders of Volvo.

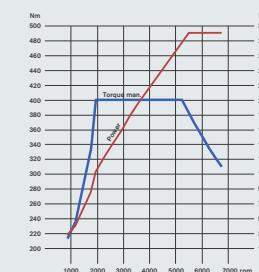




## THE PINNACLE OF HIGH-PERFORMANCE TECHNOLOGY

Three hundred horses. Four-C chassis. Electronically-controlled all-wheel drive. Crisp steering. Close-ratio gearbox. Brembo brakes. In the Volvo S60 R or V70 R, there's plenty to entertain you.

**THE R ENGINE.** The new in-line five-cylinder 2.5-liter turbocharged engine produces 300 hp and offers 295 ft./lbs of torque at 1950-5250 rpm (manual) or 258ft./lbs at 1850-6000 rpm (automatic), taking you from 0 to 100 km/h in 5.7 seconds (Volvo S60 R) or 5.9 seconds (Volvo V70 R) with the manual transmission. Continuously variable valve timing on both the inlet and exhaust sides (Dual CVVT) contributes to surging performance – whatever the engine speed. At the same time, exhaust emissions are surprisingly low, even during cold starts. Dual intercoolers, dual fuel pumps, a two-section fuel tank, and a specially designed oil pan are racing-inspired features that round off a highly potent power plant designed to handle the G-forces that build up as you get serious with the accelerator. And yet the engine is also characterized by a high degree of elegant refinement – the smooth operation and the uniform flow of power across the entire range of engine speeds make this engine truly enjoyable in more everyday driving situations.



## AWD

**THE AWD SYSTEM.** Drive is continuously distributed between the front and rear wheels by the electronically controlled all-wheel drive-system (AWD). The front wheels normally get 95% of all driving force. As the situation dictates, however, up to 70% of this force is redirected at lightning speed to the rear wheels. The system responds extremely quickly, making it possible to balance understeering and oversteering tendencies with exceptional precision. For example, during rapid acceleration or fast cornering, drive is redistributed seamlessly between the front and rear wheels within a fraction of a second – depending on what is needed to provide maximum driving stability. Behind the wheel, you'll never be aware when the AWD system engages and disengages – you'll just enjoy that superb feeling of total control.



**THE BRAKES.** Four-piston aluminum Brembo brake calipers engage the 330 mm ventilated discs to provide immediate braking force. Forging the calipers in light alloy aids heat dissipation – to provide fade-free braking – and better tire contact with the road, for better control and roadholding.



**THE STEERING.** The quick and responsive steering is the key point of contact between man, machine, and the road. You can enjoy speed-sensitive power steering, which progressively reduces power assistance as road speed increases, allowing the driver to receive optimum feedback from the road.



**THE TRANSMISSION.** The newly developed six-speed manual transmission features a quick, crisp and positive action for fast and precise shifting. The five-speed Geartronic automatic transmission, which allows clutchless manual shifting, is fitted with a 'Sport' mode selector, which enhances performance by shifting down sooner and shifting up at higher engine speeds.

# THE FORCES OF NATURE

Active driving generates a huge amount of expected and unexpected forces.

The philosophy behind the Volvo S60 R and V70 R is to turn the laws of physics into unadulterated fun.



The image shows a winding road through a mountainous landscape. Several labels with lines pointing to specific points on the road illustrate the forces of nature:

- BODY ROLL**: Points to the side of the road at a sharp turn.
- BODY LIFT**: Points to the top of the road at a sharp turn.
- OVERSTEER**: Points to the side of the road at a turn where the car is leaning too far into the curve.
- UNDERSTEER**: Points to the side of the road at a turn where the car is leaning too far away from the curve.
- PITCH**: Points to the top of the road where it rises sharply.

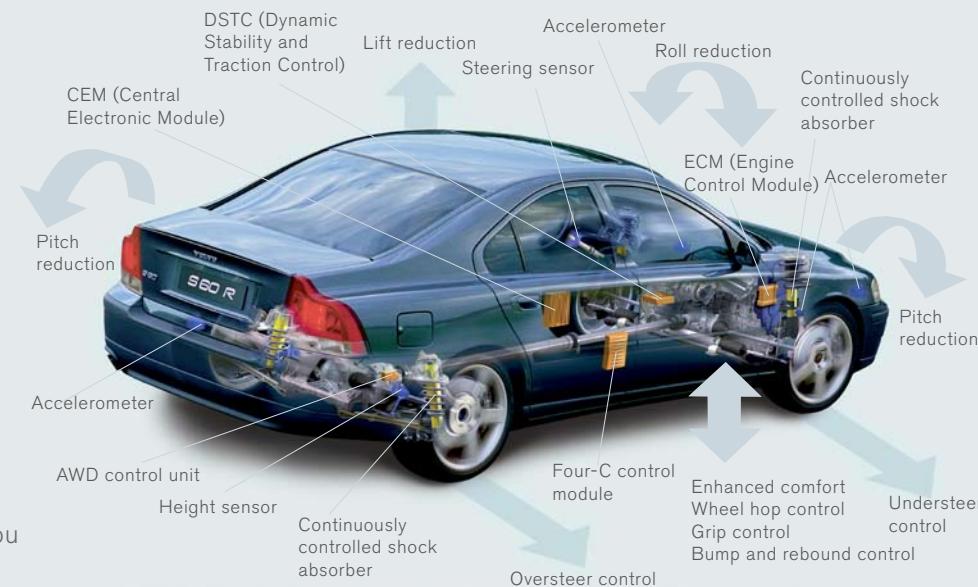
# THE POWER OF INTELLIGENCE

Volvo's unique Four-C Technology redefines active driving.

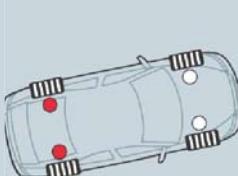
The car is always ready – almost before the driver – to deal with the natural forces of inspiring roads.

The new Volvo S60 R and V70 R are the first cars in the world with the Active Performance Chassis featuring Four-C Technology (Continuously Controlled Chassis Concept). It is a semi-active suspension system with continuously controlled shock absorbers by Monroe-Öhlins, featuring three dynamic chassis modes (Comfort, Sport and Advanced). As you drive, the system collects huge amounts of information about the way the car moves and behaves. It analyzes the information

and responds instantly by adjusting each shock absorber individually to suit the road and driving conditions. All this takes place with extreme precision up to 500 times a second. Moreover, the Active Performance Chassis with Four-C Technology interacts dynamically with the all-wheel drive, the DSTC system, the engine, the brakes, the steering and other functions – all to maximize response and match the handling characteristics to the driving style you choose.

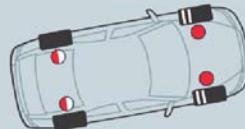


Here are some examples of how Four-C Technology interacts with the all-wheel drive system in different driving situations. And because all curves are different, the car's setup changes accordingly – to give you maximum enjoyment behind the wheel.



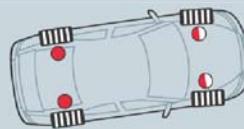
## Acceleration

The car transfers more power to the rear wheels and increases rear shock absorber damping to ensure maximum take-off performance.



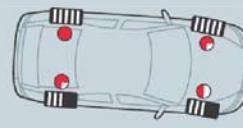
## Braking

The moment you touch the brake pedal, the car disengages drive to the rear wheels and adjusts damping of both the front and rear wheels, preparing itself to ensure optimum braking performance and roadholding.



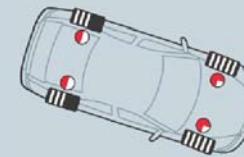
## Entering a curve

As the car enters the curve, the Active Performance Chassis responds by increasing the damping of both sets of wheels to increase body control. A hint of oversteer is induced by the shock absorbers and more power is transferred to the rear wheels for a fast turn-in. And to reduce understeer when turning further into the curve and help keep a balanced line throughout the turn, the chassis decreases damping at the front wheels.



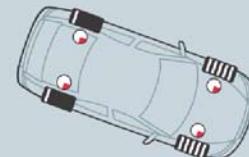
## Mid-curve

At the apex of the curve, when cornering forces are at their greatest and the driver wants the car to start accelerating, power is transferred to all the wheels – according to their level of traction – while the chassis minimizes roll and constantly balances over- and understeering.



## Exiting a curve

When exiting the curve and the driver puts his foot down, the damping of the front wheels – and the amount of power – is increased to maintain stability.



## Driving ahead

You drive brilliantly ... and there's still more beyond the next corner ... and the next ... and the next ...

- = Shock absorber, maximum damping
- = Shock absorber, minimum damping
- = Driving wheel, maximum traction
- = Driving wheel, minimum traction



## THREE MODES TO SUIT YOUR MOODS

The Volvo S60 R and V70 R are not about compromise, they're about choice. A flick of a switch – and you trade relaxed cruising and everyday utility for adrenaline-pumping sporty driving. Just pick the place, the time and the performance level – and the car responds instantly to your wishes.



### COMFORT

When the road is slippery, or when you just want a relaxing drive – the Comfort chassis mode insulates everyone in the car from irregularities in the road surface. The system prioritizes low damping motion for smooth, gentle body movements and high riding comfort.



### SPORT

For a taut but supple everyday sports car feel. The system prioritizes somewhat harder damping and faster activation than in the Comfort mode. Results in well-damped body movements and precise road behavior with good riding comfort.



### ADVANCED

Uncompromising chassis mode for maximum performance, control and traction. The chassis stops ironing out the bumps in the road, and starts telegraphing every single piece of road information directly to the driver. With very hard damping to ensure maximum contact between tire and road. Provides maximum roadholding for track use and in advanced high-speed driving where traction has higher priority than riding comfort. And when you've had your fun, comfort is at your fingertips ...



## STANDARD FEATURES

	<b>S60 R</b>	<b>V70 R</b>
300 Hp, 5 cylinder high pressure turbo engine	○	○
6-speed manual transmission	○	○
Electronically controlled All-wheel-drive	○	○
Four-C lowered semi-active chassis	○	○
Brembo brakes	○	○
Bi-xenon headlights with silver trim	○	○
Rear spoiler	○	○
Leather sport seats with added bolster	○	○
Leather sport steering wheel	○	○
Blue tint instrument cluster	○	○
Brushed aluminum interior trim	○	○
Premium audio system	○	○
Rain sensor	○	○
Laminated side glass	○	○
Mass movement sensor	○	○
Level sensor	○	○
17" alloy wheel, PEGASUS, 235/45/17 tires		○
18" alloy wheel, PEGASUS, 235/40/18 tires	○	

○ = Standard

## FACTORY OPTIONS

	<b>S60 R</b>	<b>V70 R</b>
Flash Green metallic paint	○	○
Atacama full soft leather	○	○
Navigation system	○	○
Integrated booster seats		○
Third row seat		○
Subwoofer		○

○ = Option

# THE VOLVO S60 R FACTS



## Engine

In-line 2.5-liter five-cylinder high-pressure turbo engine with CVVT (Continuously Variable Valve Timing) on both the exhaust and inlet sides. Double overhead camshafts, 20 valves. Dual charge-air coolers (Intercoolers). Three-way catalytic converter with Lambda sensor.

Power: 300 bhp at 5500 rpm (manual) or 6000 rpm (automatic)

Torque: 295 ft./lbs at 1950-5250 rpm (manual) or 258 ft./lbs at 1850-6000 rpm (automatic)

Acceleration 0-100 km/h: 5.7 sec (manual) or 7.5 sec (automatic)

Top speed: 250 km/h (electronically controlled)

Fuel consumption: 10.7 L/100 km (manual) or 11.1 L/100 km (automatic), mixed driving

CO<sub>2</sub> emission: 256 g/km (manual) or 266 g/km (automatic)

Environmental classification: ULEV

## Driveline

Electronically-controlled AWD all-wheel drive with TRACS anti-spin system.

Six-speed manual close-ratio gearbox (Sports gearshift lever, aluminum with leather-clad gear-lever knob). Also available with a five-speed Geartronic automatic transmission which allows sequential manual shifting (leather-clad gear-lever knob).

## Chassis

Four-C (Continuously Controlled Chassis Concept) semi-active chassis with three driving modes (Comfort, Sport and Advanced Sport). Front suspension with spring struts. Multi-link independent rear suspension with aluminum subframe. Anti-roll bars front (23.5 mm) and rear (20 mm). DSTC (Dynamic Stability and Traction Control) anti-skid system.

## Brakes

Power-assisted ABS brakes, ventilated 330/32 mm discs front and ventilated 330/28 mm discs rear.

Brembo four-piston aluminum calipers. Featuring EBA (Electronic Brake Assistance) and EBD (Electronic Brake Distribution) between front and rear brakes. Stopping distance 100-0 km/h: 36 m.

## Steering

Speed-dependent power-assisted rack and pinion steering. 2.5 turns lock-to-lock. Turning circle 13 m.

## Wheels

Pegasus 8x18" 5-spoke aluminum wheels, Pirelli P-Zero Rosso 235/40-18" tires.

## Headlamps

Bi-Xenon headlamps, Silver Bezel. Projector type front fog lamps.

## Drag coefficient

Cd 0.29.

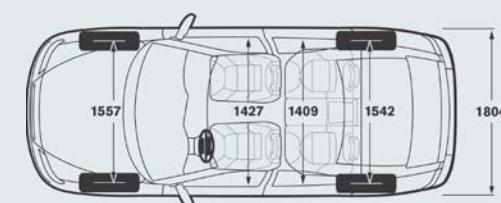
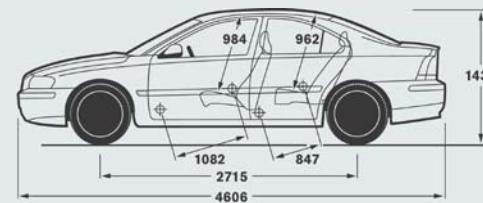
## Safety

Three-point seat belts with pre-tensioners on all five seats. Dual-stage airbags.

SIPS – Volvo's Side Impact Protection System with side airbags and IC (Inflatable Curtain). WHIPS – Volvo's Whiplash Protection System. ISOFIX child safety equipment installation system.

## Security

Electronic immobilizer. Remote-controlled central locking. Approach and Home Safe lighting.



# THE VOLVO V70 R FACTS



## Engine

In-line 2.5-liter five-cylinder high-pressure turbo engine with CVVT (Continuously Variable Valve Timing) on both the exhaust and inlet sides. Double overhead camshafts, 20 valves. Dual charge-air coolers (Intercoolers). Three-way catalytic converter with Lambda sensor.

Power: 300 bhp at 5500 rpm (manual) or 6000 rpm (automatic)

Torque: 295 ft./lbs at 1950-5250 rpm (manual) or 258 ft./lbs at 1850-6000 rpm (automatic)

Acceleration 0-100 km/h: 5.9 sec (manual) or 7.7 sec (automatic)

Top speed: 250 km/h (electronically controlled)

Fuel consumption: 10.9 L/100 km (manual) or 11.3 L/100 km (automatic), mixed driving

CO<sub>2</sub> emission: 256 g/km (manual) or 266 g/km (automatic)

Environmental classification: ULEV

## Driveline

Electronically-controlled AWD all-wheel drive with TRACS anti-spin system. Six-speed manual close-ratio gearbox (Sports gear-shift lever, aluminum with leather-clad gear-lever knob). Also available with a five-speed Geartronic automatic transmission which allows sequential manual shifting (leather-clad gear-lever knob).

## Chassis

Four-C (Continuously Controlled Chassis Concept) semi-active chassis with three driving modes (Comfort, Sport and Advanced Sport). Front suspension with spring struts. Multi-link independent rear suspension with aluminum subframe. Anti-roll bars front (23.5 mm) and rear (22 mm).

DSTC (Dynamic Stability and Traction Control) anti-skid system.

## Brakes

Power-assisted ABS brakes, ventilated 330/32 mm discs front and ventilated 330/28 mm discs rear. Brembo four-piston aluminum calipers. Featuring EBA (Electronic Brake Assistance) and EBD (Electronic Brake Distribution) between front and rear brakes.

Stopping distance 100-0 km/h: 36m.

## Wheels and Tires

The Volvo R Concept models come standard with an Ultra High Performance tire and wheel combination with a low sidewall aspect ratio. The design and tire compounds are engineered to provide maximum dry pavement performance with consideration for hydroplaning resistance. As such, they may be more susceptible to road hazard damage and, depending on driving conditions, may achieve a tread life of less than 20,000 miles. If the vehicle is to be driven in cold, snowy, or icy weather conditions, Volvo recommends the use of a suitable winter tire and wheel combination which will offer better traction under those circumstances. It is also important to note that, because they are designed for responsive handling, the tires may deliver lower overall ride comfort. It is important to regularly check inflation pressure

to assure all tires meet Volvo's specifications, and to help reduce the chance of tire rim or vehicle damage.

## Steering

Speed-dependent power-assisted rack and pinion steering. 2.5 turns lock-to-lock. Turning circle 13.2 m.

## Wheels

Pegasus 8x17" 5-spoke aluminum wheels, Pirelli P-Zero Rosso 235/45-17" tires.

## Headlamps

Bi-Xenon headlamps, Silver Bezel. Projector type front fog lamps.

## Drag coefficient

Cd 0.32.

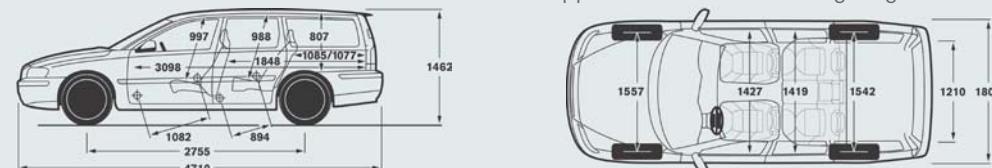
## Safety

Three-point seat belts with pre-tensioners on all five seats. Dual-stage airbags.

SIPS – Volvo's Side Impact Protection System with side airbags and IC (Inflatable Curtain). WHIPS – Volvo's Whiplash Protection System. ISOFIX child safety equipment installation system.

## Security

Electronic immobilizer. Remote-controlled central locking. Approach and Home Safe lighting.



## INTERIOR DESIGN

You can choose between three different exclusive leather upholsteries, with either a natural or special soft finish. The door panels are upholstered in the same material as the seats. The arch above the instrument panel is trimmed in black leather with blue stitching. The rest of the instrument panel and the door panels are always in Charcoal with aluminum inlays. The textile mats are colour-matched to the leather upholstery.



Nordkap soft leather upholstery Dark Blue (S60: 9576/V70: A576)



Gobi soft leather upholstery Light Beige (S60: 9577/V70: A577)

## EXTERIOR DESIGN



612 Passion Red



426 Silver metallic



452 Black Sapphire metallic



455 Titanium Grey metallic



450 Cosmos Blue

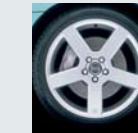


457 Flash Green metallic  
(special order)



Pegasus 8x17"

Pirelli P-Zero Rosso  
235/45-17" tires



Pegasus 8x18"

Pirelli P-Zero  
Rosso 235/40-18"  
tires (S60 R)



Pegasus 8x18"  
Titanium Grey

Pirelli P-Zero Rosso 235/  
40-18" tires (S60 R)



Atacama natural hide upholstery (S60: 9675/V70: A675) (Special Order)



Extreme performance is always at hand, whenever you're in the mood. For the rest of the time, the Volvo S60 R or V70 R maintains its intelligent functionality. The seats offer luxurious long-distance comfort, the storage compartments are spacious and flexible, and the preventive and protective safety systems are of absolute world class. Nothing has been sacrificed or compromised, only refined. Because, after all, it's a Volvo.



## WELCOME TO OUR FAMILY

Being a Volvo owner is about more than just owning an automobile. It's about being treated in a caring, responsive and respectful manner every time you interact with our company. All of us are committed to making every aspect of your Volvo experience a rewarding one. So after the new car smell begins to fade, you'll still be excited about owning a Volvo.

**CARE**  
BY VOLVO

### VOLVO CAR FINANCIAL SERVICES CANADA

If you purchase or lease your Volvo through Volvo Car Financial Services Canada, you can take advantage of services designed to make financing simple and convenient. Quick Debit, for instance, enables you to have your monthly payment automatically debited from a designated bank account.

### CARE BY VOLVO® ON CALL ROADSIDE ASSISTANCE

Our national network of retailers and authorized service providers are ready to assist. Whether you require roadside assistance or maps and routing information for your next trip, – anytime, day or night. Your complimentary four-year membership activates the moment you become a Volvo owner.

### VOLVO NEW CAR WARRANTY

Your new car warranty provides comprehensive coverage for four years or 80,000 kilometres, whichever occurs first. Additional warranties cover corrosion, seat belts, the supplemental restraint system, emission systems, genuine Volvo replacement parts and genuine Volvo accessories. Should you encounter any problem with your Volvo, simply contact the nearest retailer for assistance. Where your warranty ends, Volvo Increased Protection (VIP) plans begin. To purchase the additional protection of a VIP plan, contact your local retailer.

### KEEP IN TOUCH

These are just a few of the added benefits you'll enjoy as a Volvo owner. If you'd like to find out more about the world behind Care by Volvo, the story continues at [www.volvocanada.com](http://www.volvocanada.com). Alternatively you can contact your local Volvo retailer or request relevant booklets.



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