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Toyota showcases innovation at Frankfurt

- Commitment to innovation and the environment
- Celebrating 10 years of hybrid technology
- Introducing radical new small car concept
- Continuing to update current popular models

Toyota's role as a global leader in automotive innovation and environmental concern is highlighted at this year's Frankfurt Motor Show. It has long recognised its corporate responsibility for the environment and for the communities in which it operates. This commitment translates into a comprehensive vision of sustainable mobility.

Toyota's extensive research and development programmes examine every aspect of vehicle design, performance, safety and the information infrastructure that will underpin driving tomorrow. As a result, Toyota clearly continues to demonstrate its commitment to finding and implementing solutions that make cars less of an environmental burden.

10 years of hybrid

Toyota's world-leading hybrid technology is at the core of this strategy. The company is celebrating 10 years of commercial success with hybrid technology and the world's most popular low emissions hybrid car, the Toyota Prius.

As a result of its success, the Toyota group plans to double its hybrid vehicle line-up by the early part of the next decade and is targeting one million hybrid vehicle sales a year worldwide (Toyota and Lexus combined).

This focus on hybrid technology is one key element in Toyota's commitment to minimising fleet average CO₂ emissions in Europe.

Expanding small car sales

But Toyota innovation and development is not confined to hybrid technology. The company is committed to expanding its small car sales to reduce CO₂ emissions and can present radical solutions to the challenges of urban transport.

At the Frankfurt Motor Show, Toyota presents a vision of an ultra compact, yet highly specified and modern urban car with the unveiling of a new small car concept in a revolutionary design.

Updates to popular models

Toyota also uses the Frankfurt Motor Show to showcase the latest updates in some of its most popular models in Europe.

Two new models will be introduced into the Yaris line-up, enhancing the car's image and with specification designed to broaden its customer attraction. The new Yaris 1.0-litre will showcase Yaris intelligent technology for smart urban driving, with its economical and easy-to-drive style.

The new Yaris mid-range grade offers more refined sportiness with a choice of petrol or diesel engines and hi-tech equipment levels, including an integrated, full map navigation system.

The iconic Toyota RAV4 continues to set the benchmark for the highly competitive SUV market in Europe with outstanding driving performance, great versatility and even more sophistication and refinement.

Now, with the new RAV4 Cross Sport, customers can enjoy new levels of stylish design and premium quality with a sport, customers range of enhancements for the 2008 model year. These further emphasise the sophisticated and urban design themes of RAV4 across the range.

Few cars on the market have achieved the legendary status of the Toyota Land Cruiser. Built to withstand some of the toughest driving conditions on earth, Land Cruiser also offers remarkable driving pleasure.

Now Land Cruiser gets extra specifications to further enhance passenger comfort. The fresh exterior styling of Land Cruiser adds a more dynamic look to reflect the superior quality of the model range.

Information on the full range of Toyota models in Europe can be found on the Toyota stand in Hall 8 of the 2007 Frankfurt Motor Show and during the Toyota press conference.

Toyota celebrates 10 years of hybrid success



Toyota celebrates 10 years of hybrid success

- Hybrid at the core of future development
- 1 million in cumulative hybrid vehicle sales
- Environmental responsibility in vehicle development and manufacturing

Today, Toyota is celebrating 10 years of commercial success with hybrid technology and the world's most popular low emissions hybrid car, the Toyota Prius, which is sold in over 44 countries world-wide. During that period Toyota has become a world leader in hybrid powertrain technology and now puts hybrid systems at the core of its drive for the ultimate eco-car.

As a result of its success, the Toyota group plans to double its hybrid vehicle line-up by the early part of the next decade and is targeting one million hybrid vehicle sales a year worldwide (Toyota and Lexus combined). In May 2007, Toyota and Lexus hybrid sales have surpassed the mark of 1 million in cumulative sales.

This focus on hybrid technology is one key element in Toyota's commitment to minimising fleet average CO₂ emissions in Europe. At the same time Toyota accepts responsibility, through innovation and vehicle planning, to create clean manufacturing, reduced emissions and promote the use of recycling and reusing waste material.

Toyota's eco-vision

- Comprehensive vision of sustainable mobility
- Tackling every aspect of the lifecycle
- Moving towards zero net emissions

As one of the world's leading global vehicle manufacturers Toyota has long recognised its corporate responsibility for the environment and for the communities in which it operates. This commitment translates into a comprehensive vision of sustainable mobility.

Toyota's extensive research and development programmes examine every aspect of vehicle design, performance, safety and the information infrastructure that will underpin driving tomorrow.

Toyota recognises motor vehicles interact with the environment throughout their entire lifecycle – from their initial design and the way they are manufactured, to their use on the road and their eventual disposal when no longer needed. For Toyota, minimizing these kinds of environmental impact has long been a top priority at every level of the company's organisation and activity.

And building completely recyclable cars with zero net emissions is Toyota's foremost challenge for the years to come.

Long history of hybrid technology

- Prius launched in 1997
- Hybrid systems dating back to 1965
- Development of Toyota Earth Charter

The first basic policy of Toyota's Earth Charter, developed as long ago as 1992, states: "in order to contribute towards a prosperous 21st century society, aim for growth that is in harmony with the environment and challenge achievement of zero emissions throughout all areas of business activities".



Indeed, when Toyota unveiled the first Prius, in 1997, it already had decades of background research when it started investigating the feasibility of using gas turbines to power an electric drive system for cars back in 1965. The system was actually displayed in a Toyota Sports 800 gas turbine hybrid at the Tokyo Motor Show in 1977 that promoted the philosophy: performance with respect for the environment.

It is still the same philosophy being followed today with Toyota's award winning Hybrid Synergy Drive®.

A commercial success story

- More than 750,000 Prius sold worldwide
- Top of customer satisfaction ratings
- European Car of the Year 2005

From launch, Prius was an immediate commercial and critical success; the most technically advanced production car in the world and placing Toyota as a world leader in low emissions and hybrid technology. In the space of three years Prius gathered no less than 20 prestigious awards including the 1997 Japanese Car of the Year.

Launched in Europe in 2001, Prius moved into the second generation with Hybrid Synergy Drive® in 2003 and was further revised at the start of 2006 to offer a fresh face and improved interior comfort and quality. At the same time, sharper driving dynamics were introduced with a series of chassis, suspension and steering enhancements.

Since launch, more than 750,000 Prius models (May YTD) have been sold worldwide and more than 66,000 are on the roads in Europe. Rising fuel prices and increasing environmental awareness plus, to a certain extent, preferential tax and city driving incentives are facilitating the change.

But customers who switch to Prius are not just doing it for lifestyle reasons; they are also extremely satisfied with their choice and the driving pleasure it offers. Toyota Prius has just topped the 2007 JD Power Customer Satisfaction survey in the UK and France, and the current generation Prius was named European Car of the Year 2005.



Prius has won the ADAC Eco-Test in Germany in 2004 and 2005, and in 2007, the 1.5-litre petrol engine of the Prius Hybrid Synergy Drive® was named "International Engine of the Year" and "Best New Engine" in the International Engine of the Year awards. For the last four consecutive years, it has also won the "Best Fuel Economy" award.

Research shows that around 20% of customers switching to Prius have previously owned a luxury car. They are attracted by the environmental benefits of Prius but do not want to sacrifice performance or driving pleasure. Instead, they embrace the new technology and have high expectations of comfort and safety which Prius must satisfy.

Continuously improving performance

- Matches performance of conventional family cars
- Hybrid Synergy Drive® emissions amongst cleanest in the world
- Class leading aerodynamics
- Silent driving experience

Over the past 10 years, Toyota Prius has been continuously improved and refined. This process has ensured Prius offers not just reduced harmful emissions but also excellent driving dynamics and driving pleasure.

Today, the current Prius matches the performance of many conventional family cars with a top speed of 170 km/h and 0-100 km/h acceleration in 10.9 seconds. Meanwhile Hybrid Synergy Drive® technology achieves exhaust emissions that are among the cleanest in the world.

The first generation Prius, with the Toyota Hybrid System (THS), showed a level of improvement for carbon dioxide emissions of around 20% compared to conventional powertrains. For the second generation Prius, with Hybrid Synergy Drive®, these emissions have again further fallen by 15%, from 120 g/km down to 104 g/km.



The latest generation Prius produces about 55% less CO₂ and nearly half the nitrous oxides and hydrocarbons of other cars of comparable size equipped with modern standard exhaust treatment systems. Compared with an average D-segment cars on the market, driving a Prius can save up to one tonne of CO₂ emissions per year (calculation based on the combined EC cycle, with 20,000 km annual driving distance). The official fuel consumption on the EC combined cycle is 4.3 l/100km. And, when it does eventually reach the end of its useful life, owners can be confident that Prius is 90% recyclable.

World-leading aerodynamics play a significant role in helping improve fuel consumption, reduce wind noise and allow increased performance. The reduced frontal area of Prius means it cuts through the air more efficiently and the car's smooth underbody reduces overall drag and resistance.

The Prius features a class leading aerodynamic drag coefficient (Cd) of 0.26 resulting in excellent high speed stability and quietness.

The Prius can furthermore run on electric motor only at a low speed and up to two kilometres distance, offering a completely silent driving experience.

Suspension and chassis refinements as recent as 2006 have been designed to improve driving pleasure still further while also enhancing ride comfort and high speed stability. The developments have focused on specific areas of chassis stiffness to improve dynamic stability, suspension tuning for better ride comfort and steering control for increased response and feel.

Advanced comfort and safety

- Spacious and versatile cabin
- Premium quality trim and finish
- High levels of active and passive safety
- Available in a new exterior colour

Not only is Prius the most technically advanced car on the market, it is also one of the safest, most refined and most comfortable. Despite the battery size, cabin space is comparable to a large family saloon, with excellent leg and head room. For maximum versatility, the rear seats fold flat, have a 60-40 split and provide ample space and comfort for adult passengers.

For the ultimate comfort, a high quality leather trim package is available with genuine leather seats and a leather trimmed steering wheel. Anti-lock brakes (ABS) with electronic brake force distribution (EBD) and brake assist are standard equipment, along with VSC+, a stability control system that co-ordinates with steering torque assist.

Eight airbags are standard equipment, with improved knee protection for the driver. EuroNCAP has recognised Prius' high levels of passive safety, with a 5-star adult occupant rating, together with the highest score ever in terms of child protection – 43 points (4 stars).



The Toyota Prius will now also be offered in an additional colour: **Blue Mika Metallic**.



Showcase for advanced technologies

- All-electric air conditioning
- Intelligent Park Assist
- DVD-satellite navigation

As one of the most sophisticated passenger cars available today, the Toyota Prius is also a showcase for advanced technologies.

Prius is the first production car to be fitted with an all-electric air-conditioning system. As a result, the air conditioning is activated without depending on the engine and with no impact on fuel economy or power loss.

The highlight is the unique Intelligent Park Assist (IPA) system, another world-first available in Prius, which is simple to operate - allowing the driver to select the target parking spot and then control the speed, while the car steers itself.



Also available with Toyota Prius is the most sophisticated DVD-based satellite navigation system in the segment and a totally new audio head unit with a digital filter and the capability to play CDs with MP3 and WMA files.

The next horizon

- Hybrid at the core of future development

As Toyota celebrates 10 years of hybrid car production, it is clear that hybrid holds the advantage as the core technology for eco-cars.

Hybrid can help maximise the merits of all energy sources, whether they are conventional (such as petrol or diesel) or alternative, combining different power sources in ways that maximise the strengths of each.

This explains why Toyota is committed to further develop hybrid systems as its core environmental strategy and explore future options.



Specifications

Engine

Manufacturer	Toyota Motor Corporation
Type	L4, normally aspirated, high expansion cycle
Cylinder head material	Aluminium alloy
Engine block material	Aluminium alloy
Fuel type	95 Octane petrol (or more)
Injection type	Sequential multiport EFI, L-Jetronic
Ignition type	Direct Ignition System (DIS)
Valve mechanism	DOHC 16 valve VVT-i
Displacement (cm ³)	1,497
Bore x stroke (mm)	75.0 X 84.7
Compression ratio (:1)	13.0
Max. power (SAE hp) kW/rpm	(77) 57/5000
Max. torque (Nm/rpm)	115/4000
Emission regulations	EURO IV (Europe), J-ULEV (Japan) and AT-PZEV (USA) simultaneously

Electric motor

Manufacturer	Toyota Motor Corporation
Type	Synchronous, permanent magnet
Rated voltage (V)	500
Max. power (kW/rpm)	50/1200-1540
Max. torque (Nm/rpm)	400/0-1200
Weight (kg)	104

Battery pack

Manufacturer	Panasonic EV Energy *
Type	Nickel-metal hydride
Nominal voltage (V)	201.6
Number of modules	28
Capacity (Ah)	6.5 (3h)
Weight (kg)	39

* A joint venture between Toyota and Matsushita Electric

Hybrid powertrain

Manufacturer	Toyota Motor Corporation
Type	Series-parallel
Torque transfer type	Planetary gear unit
Combined max. power (SAE hp) kW/ km/h	(110) 82/more than 85
Combined max. torque (Nm/km/h)	478/below 35

Transmission

Drive type	Front wheel drive
Transaxle type	Electronically Controlled Variable Transmission (E-CVT)

Brakes

Type	4-wheel disc brakes (ventilated at front)
Front disc size (mm)	255
Rear disc size (mm)	269
Additional features	ABS with EBD and BA ECB (Electronically Controlled Brake) brake-by-wire system E-TRC (Electric Traction Control) VSC+ (Vehicle Stability Control +) Uphill Assist Control

Steering

Type	Rack and pinion; Electric Power Steering (EPS)
Ratio (:1)	19.2
Turns (lock to lock)	3.61
Min. turning radius – tyre (m)	5.1

Tyres and wheels

Wheel type	Alloy, lightweight with protection wheel cap
Wheel size	16" x 6J
Tyre size	195 / 55 R 16

Exterior dimensions

Overall length (mm)	4,450
Overall width (mm)	1,725
Outside mirror width (mm)	2,010
Overall height (mm)	1,490
Wheelbase (mm)	2,700
Tread (mm) front	1,510
Tread (mm) rear	1,480
Overhang (mm) front	890
Overhang (mm) rear	860
Drag coefficient (Cd)	0.26
Front lift coefficient (CLf)	-0.004
Rear lift coefficient (CLr)	0.074

Interior dimensions

Interior length (mm)		1,890
Interior width (mm)		1,440
Interior height (mm)		1,225
Interior volume (m³)		4.6
Front	Head room (mm)	993
	Shoulder room (mm)	1,397
	Hip room (mm)	1,295
	Leg room (mm)	1,064
Rear	Head room (mm)	947
	Shoulder room (mm)	1,344
	Hip room (mm)	1,306
	Leg room (mm)	980

Luggage compartment

Luggage capacity (m³)	0.408
Length (mm)	900

Performance

Max. speed (km/h)	170
0-80km/h (s)	7.4
0-100km/h (s)	10.9
0-120km/h (s)	15.1
0-140km/h (s)	22.6
0-160km/h (s)	34.0
60-100km/h (s)	7.2
80-120km/h (s)	8.4

Weights

Kerb weight (kg)	1,300
Gross vehicle weight (kg)	1,725

Fuel consumption *

Combined (l/100km)	4.3
Extra urban (l/100km)	4.2
Urban (l/100km)	5.0
Fuel tank capacity (l)	45

* According to Directive 80/1268/EEC as last amended by Directive 1999/100/EC

CO₂ emissions *

Combined (g/km)	104
Extra urban (g/km)	99
Urban (g/km)	115

* According to Directive 80/1268/EEC as last amended by Directive 1999/100/EC

Other emissions *

	Toyota Prius	EURO IV petrol	EURO IV diesel
NOx (g/km)	0.01	0.08	0.25
HC (g/km)	0.02	0.1	-
CO (g/km)	0.18	1.0	0.50

* According to directive 1999/102 (stage 3)/EC

RAV4 Cross Sport - the other RAV4



RAV4 Cross Sport - the other RAV4

- **Best selling SUV in Europe**
- **More sophisticated and urban look for mid-range**
- **Further refinement to interior trim**

The iconic Toyota RAV4 continues to set the benchmark for the highly competitive SUV market in Europe with outstanding driving performance, great versatility and now, even more style and refinement.

The Toyota RAV4 was the best selling SUV in Europe in 2006. The result also marked a new European sales record for RAV4 of 120,000 in a single year. For the first half year of 2007, over 70,000 units have been sold throughout Europe, topping sales charts.

Now, RAV4 Cross Sport, which is displayed at the Frankfurt Motor Show, offers customers a stylish and sophisticated design, and premium quality with a range of enhancements for the 2008 model year. These further emphasise the sophisticated and urban design themes of RAV4, creating a more dynamic look on most engine options.



The backdoor, now also without the rear spare tire on the mid-grade, gives the vehicle a more urban and refined appearance. Instead the RAV4 is equipped with a highly effective, but simple-to-use, standard tyre repair kit. Furthermore, the new 17-inch, six-spoke alloy wheels add to the more sophisticated effect.



Highlights of the fresh exterior styling are a new chrome-plate front grille and privacy glass as standard which more accurately reflects the premium quality of RAV4. This grille has previously been available only on the range-topping RAV4 X model. The privacy glass especially creates a contemporary look with sporty, premium overtones. The newly-developed underrun-protector, available in either silver or black, gives the vehicle a sporty touch.

New interior trim in dark grey has a more premium look and feel to further add to the impressive levels of refinement while the versatility of the third generation RAV4 – with Easy-Flat seating and increased luggage space – continues as a major customer benefit.



An increased range of accessories allows RAV4 owners to further customise their cars to create a personal style, such as Bluetooth connectivity and rear parking sensors.

Superior driving performance

- Powerful, clean D-4D 180 Clean Power
- Diesel particulate filter (DPF) added on 2.2 D-4D 135
- Integrated Active Drive System

A full range of innovative and environmentally-friendly diesel and petrol engines ensures RAV4 offers drivers superior driving performance. The 2.2-litre D-4D 180 Clean Power engine, with Toyota's advanced D-CAT technology, is not only the most powerful diesel engine in the segment but also the cleanest, with the smallest combined NOx and PM emissions for diesel engines in its segment.

The D-4D 180 Clean Power enables customers to enjoy a top speed of 200km/h and acceleration to 100 km/h in 9.3 seconds while achieving combined fuel consumption of 7.0 litres/100km.

The diesel line-up is now even more environmentally friendly with the recent introduction of a Diesel Particle Filter (DPF) on the best selling 2.2 D-4D 135 engine. Unlike other particulate filters

on the market, the Toyota DPF is entirely maintenance-free throughout the life of the vehicle, reducing running costs for owners and ensuring that emissions reductions are constant and consistent over the years.

Both 2.2-litre D-4D engines come as standard with the Toyota six-speed manual transmission which boasts smooth, quick and precise gear-change. The six gear ratios have been carefully selected to allow drivers to make the most of the new performance available to them, while maintaining excellent fuel consumption.

Total driver control, even under the most difficult terrain and road conditions, is provided by the Integrated Active Drive System. This advanced handling and safety package is unique to the Toyota RAV4 and represents another world first for this segment.

Integrated Active Drive System



Integrated Active Drive System takes a set of individual technologies and combines them into a complete package via high-speed CAN communications. The three main elements are the Active Torque Control 4WD system, the Vehicle Stability Control (VSC) and the Electric Power Steering (EPS).

The interaction of all systems allows for real-time control that responds to driver operation and vehicle behaviour, resulting in enhanced running, turning and stopping performance. The Toyota RAV4 Integrated Active Drive System represents a significant enhancement to the safety and performance of the SUV segment.

Specifications

Engine	2.0-litre VVT-i	D-4D 135	D-4D 180
Type	4 cylinders in-line	4 cylinders in-line	4 cylinders in-line
Fuel type	95 Octane petrol	48 Cetane diesel	48 Cetane diesel
Valve mechanism	DOHC 16-valve Chain drive with VVT-i	DOHC 16-valve Chain drive	DOHC 16-valve Chain drive
Displacement (cm³)	1,998	2,231	2,231
Bore x stroke (mm)	86.0 x 86.0	86.0 x 96.0	86.0 x 96.0
Compression ratio (:1)	9.8	16.8	15.8
Fuel System	Electronic Fuel Injection	Common-rail system with solenoid injector	Common-rail system with piezoelectric injector
Injection pressure (bar)	-	1,700	1,800
Max. power (kW) DIN hp / rpm	(112) 152/6,000	(100) 136/3,600	(130) 177/3,600
Max. torque (Nm / rpm)	194/4,000	310/2,000-2,800	400/2,000-2,600

Transmission

Type	Electronically-controlled 4WD			
Clutch type	Dry, single plate			
Engine	2.0-litre VVT-i	D-4D 135	D-4D 180	
Gearbox type	5 M/T	4 A/T	6 M/T	6 M/T
Gear ratios	1 st	3.833	3.938	3.818
	2 nd	2.045	2.194	1.913
	3 rd	1.333	1.411	1.218
	4 th	1.028	1.019	0.880
	5 th	0.820	-	0.809
	6 th	-	-	0.711
	Reverse	3.583	3.141	4.139
Final gear ratio (Fr/Rr)	4.562/2.277	3.291/2.277	4.312 (1st-4th) 3.631 (5th-6th)/ 2.277	4.312 (1st-4th) 3.631 (5th- 6th)/2.277

Brakes

Front	Ventilated discs (Ø296 x 28 mm)
Rear	Solid discs (Ø281 x 12 mm)
Additional features	ABS EBD (Electronic Brake-force Distribution) BA (Brake Assist) TRC (Traction Control) Integrated Active Drive System Hill-start Assist Control (HAC) Downhill Assist Control (DAC) on A/T model only

Steering	2.0-litre VVT-i	D-4D 135	D-4D 180
Type	Rack and pinion		Rack and pinion
Ratio (:1)	14.4		14.6
Turns (lock to lock)	2.8		2.7
Min. turning radius – tyre (m)	5.1		5.4
Additional features	Electric Power Steering (EPS)		

Suspensions

Front	MacPherson Strut
Rear	Double wishbone

Exterior dimensions

Overall length (mm)	4,395 (4,315*)
Overall width (mm)	1,815
Overall height (mm)	1,685 (1,720 w/ roof rail)
Wheelbase (mm)	2,560
Tread front (mm)	1,560
Tread rear (mm)	1,560
Front overhang (mm)	860
Rear overhang (mm)	975 (895*)
Drag coefficient (Cd)	0.31

*Without exterior-mounted spare wheel

Offroad

Approach angle	28°
Breakover angle	20°
Departure Angle	24°
Running clearance (mm)	190
Front axle clearance (mm)	180
Rear axle clearance (mm)	180

Interior dimensions

Interior length (mm)	1,820
Interior width (mm)	1,495
Interior height (mm)	1,240 (1,165 w/ sunroof)

Luggage compartment

Luggage compartment capacity (m³)	0.586
Loading area length (mm)	800 (1,500 rr seat fold)
Deck width (mm)	1,335
Deck height (mm)	995

Weights	2.0-litre VVT-i		D-4D 135	D-4D 180
	5 M/T	4 A/T	6 M/T	6 M/T
Kerb weight (kg)	1,465	1,505	1,585	1,595
Gross vehicle weight (kg)	2,070	2,110	2,190	2,190
	1,500	1,500	2,000	2,000
Towing capacity, w/ brakes 12% (kg)	(opt: 2000)			
Towing capacity, w/o brakes (kg)	750	750	750	750

Performance	2.0-litre VVT-i		D-4D 135	D-4D 180
	5 M/T	4 A/T	6 M/T	6 M/T
Max. speed (km/h)	185	175	180	200
0-100 km/h (sec.)	10.6	12.0	10.5	9.3
0-400 m. (sec.)	17.2	18.3	17.2	16.6

Fuel consumption *

	2.0-litre VVT-i		D-4D 135	D-4D 180
	5 M/T	4 A/T	6 M/T	6 M/T
Extra-urban (l/100km)	7.2	7.4	5.6	6.1
Combined (l/100km)	8.6	9.0	6.6	7.0
Urban (l/100km)	11.0	11.6	8.1	8.4
Fuel tank capacity (l)	60	60	60	60

CO₂ emissions *

	2.0-litre VVT-i		D-4D 135	D-4D 180
	5 M/T	4 A/T	6 M/T	6 M/T
Extra-urban (g/km)	170	175	149	163
Combined (g/km)	202	212	173	185
Urban (g/km)	257	273	215	223

* According to Base directive 80/1268/EEC, latest amendment 2004/3/EC

Other emissions *

	2.0-litre VVT-i		D-4D 135	D-4D 180
	5 M/T	4 A/T	6 M/T	6 M/T
Emission level	EURO IV	EURO IV	EURO IV	EURO IV
CO	0.39	0.27	0.16	0.12
HC	0.04	0.04	-	-
NOx	0.02	0.04	0.22	0.13
HC + NOx	-	-	0.23	0.14
PM	-	-	0.016	0.003

* According to Base directive 70/220/EEC, latest amendment 2003/76B/EC

New grades add to Yaris appeal



New grades add to Yaris appeal

- Two new models enhance image
- Economical Yaris 1.0-litre entry grade showcases urban chic
- Mid-range Yaris with refined sportiness
- Portable navigation system adds to convenience

Two years after its introduction, the highly successful, second generation Toyota Yaris receives a model grade update to create even more appeal for customers and emphasise its class-leading levels of quality, safety and driving pleasure.

Two new models will be introduced into the Yaris line-up, enhancing the car's image and with specification designed to broaden its customer attraction. The new Yaris 1.0-litre petrol grade will showcase Yaris intelligent technology for smart urban driving, with its economical and easy-to-drive style.

The new Yaris mid-range grade offers more refined sportiness with a choice of petrol or diesel engines and hi-tech equipment levels, including a fully integrated, full map navigation system which is detachable.

The new grades will reinforce the role of Yaris as the best selling model in Toyota's European line-up and a major contributor to Toyota's continuing growth in the European market. The Yaris appeal of class-leading quality, safety and versatile package has attracted more than 1.2 million customers since launch, with an annual European sales target of 270,000 units a year.

Yaris customers recognise they are buying a compact car with big car features and attitude that sets the benchmark for the B-segment. Typically, they range across the market, from young couples to older consumer groups who seek a high quality lifestyle. The two new grades will continue to build on that appeal.

Urban chic entry grade

- Fashionable and stylish trim
- Extra comfort and convenience features
- Intelligent technology, economical 1.0-litre engine

The new Yaris 1.0-litre is an entry-grade model designed to appeal to customers looking for smart urban driving. It is fashionable and stylish while also offering intelligent technology that ensures it remains easy and economical to drive.

As such, Yaris 1.0-litre is likely to attract younger buyers, especially female, wanting good value for money and urban chic – but still the Yaris core values of clever, flexible package, class-leading quality and safety.

New features which add to the comfort and convenience of Yaris 1.0-litre include the leather steering wheel with remote controls for the audio system and the telescopic adjustment of the steering column. This helps ensure the driver enjoys a comfortable, ideal driving position. The audio system is now compatible with MP3 format.



Yaris 1.0-litre is available in a range of five vibrant colours, including an exclusive and striking peppermint green. The exterior treatment is complemented with black finished exterior mirrors and door handles, while wheels caps feature a new design.

The interior treatment is personal and stylish with colour-coded themes designed to match the exterior. These include colour-coded inserts and rings around such items as the leather-trimmed gearlever knob, door handles and air vents. There is a personalised ashtray, colour-coded scuff plates and a colour-coded edging to the high quality, front floor mats.

Yaris 1.0-litre is powered by the advanced 998cc, three cylinder VVT-i petrol power unit recently named 'Best sub-1.0 litre' engine in the prestigious "2007 International Engine of the Year" awards. Weighing just 69 kg, this is the lightest engine in the car market today and offers easy driving with outstanding fuel economy (5.4 l/100km on the combined cycle and CO₂ emissions of 127 g/km).

Refined, sporty mid-grade

- Choice of petrol or diesel engines
- New, portable navigation system
- Exclusive, stylish Ash Grey colour

The new mid-grade Yaris, with a choice of advanced 1.3-litre VVT-i petrol or economical 1.4-litre D-4D diesel engines, is a sophisticated model offering refined sportiness. The higher levels of equipment and superior quality are designed to maintain Yaris's position as Toyota European best seller and the new mid-grade will be launched in an exclusive and stylish Ash Grey colour.

An exclusive feature of the mid-grade Yaris is the fully integrated audio and navigation system with detachable handset which allows customers to use the navigation function away from the vehicle. Developed in conjunction with portable navigation market leaders, TomTom and Fujitsu Ten, the new system combines the best of both worlds; fully integrated navigation and audio with portable convenience.



Key features of the system include a user-friendly touch screen, improved location accuracy and voice guidance through the integrated audio speakers, USB and Bluetooth connectivity. The navigation functions include RDS-TMC traffic information and various points of interest. Available through web-downloads are weather information, traffic information and map updating.

Accessories which come with the portable navigation include a docking station, audio cover for the car and a power outlet/charging point.

Exterior enhancements of the new mid-grade Yaris include integrated front fog lamps and an elegant new wheel cap design which emphasise the quality message. On the interior, the parking brake now features a chrome knob while the door handles are finished in silver.

Powerful design, superior quality

- Strong styling as Yaris 'grows-up'
- Versatile interior for maximum space
- Class-leading safety with 5-star NCAP

The two new grades will further develop the attraction of the current generation Yaris as a class-leading B-segment car with a powerful design, ingenious package and superior quality, comfort and safety.

Although it features many design cues from the original model in its styling, the second generation Yaris has 'grown-up' in every way. The strong shapes and attention to detail add sophistication and quality while the sporting lines create a dynamic stance with a promise of driving pleasure.

The advanced 'cab-forward' attitude not only creates greater interior space but also evokes a sense of motion and relentless action. With the new design, the interior dimensions have grown in greater proportion to the exterior size.

Most notable is the greatly increased luggage space compared to the previous generation: up by 75% to 363 litres (seats in front- most position) and, in response to customer expectations, the current Yaris will now take a golf bag or a baby buggy without folding down the rear seats.



A key feature is the modular seating which allows enormous versatility in passenger and luggage carrying. The rear seat is fully adjustable and the 60/40 split seats can slide backwards or forwards over 150mm on an independent basis. Seats can also recline independently.

The Toyota Easy Flat seat folding mechanism allows quick, one-touch folding of the rear seat to a flat floor without removing seat cushions or headrests (you can even do it with the front seats in their rear-most position). Rear passenger comfort has been improved with a flat floor and there is increased rear passenger foot space.

Along with big car comfort and equipment, Yaris also offers class-leading levels of safety with an outstanding 5-star safety rating and 35 points for adult protection in the EuroNCAP safety tests. The Yaris has also scored 2 stars in pedestrian protection and 3 stars in the child protection rating.

Nine airbags, including a driver's knee airbag - a first in the segment - are available and there is a seat-belt warning system with buzzer for both driver and front seat passenger.

Anti-lock brakes (ABS), electronic brake force distribution (EBD) and, unusually in this segment, brake assist (BA) are standard equipment fitted across all models. Vehicle Stability Control (VSC) is available across all powertrains.

In addition, current generation Yaris is the first car to be developed by Toyota according to more stringent internal car-to-car crash test standards. These simulate a 55 km/h (both vehicles travelling at 55 km/h) impact with a two ton vehicle in frontal 50% overlap, side and rear 50% overlap collisions.

These class-leading features of Yaris ensure it remains a favourite with European car buyers. The new model grades now introduced present even more style and sophistication to boost that appeal.

Technical specifications

Engine	1.0-litre VVT-i	1.3-litre VVT-i	1.4-litre D-4D
Engine code	1KR-FE	2SZ-FE	1ND-TV
Type	3 in-line cylinders	4 in-line cylinders	4 in-line cylinders
Fuel type	95 Octane petrol (or higher)	95 Octane petrol (or higher)	48 Cetane diesel
Valve mechanism	DOHC 12-valve	DOHC 16-valve	OHC 8-valve
Displacement (cm ³)	998	1,298	1,364
Bore x stroke (mm)	71.0 x 84.0	72.0 x 79.6	73.0 x 81.5
Compression ratio (:1)	10.5	11.0	17.9
Max. power (kW) DIN hp/rpm	(51) 69/6,000	(64) 87/6,000	(66) 90/3,800
Max. torque (Nm/rpm)	93/3,600	121/4,200	190/1,800-3,000
Emissions level	EURO IV	EURO IV	EURO IV

Transmission

Type	Front-wheel drive			
Clutch type	Dry, single plate			
Engine	1.0-litre VVT-i		1.3-litre VVT-i	1.4-litre D-4D
Gearbox type	5 M/T	5 M/M	5 M/T	5 M/M
Gear ratios	1 st	3.545	3.545	3.545
	2 nd	1.913	1.913	1.904
	3 rd	1.310	1.310	1.310
	4 th	1.027	1.027	0.969
	5 th	0.850	0.850	0.725
	Reverse	3.214	3.214	3.250
Differential gear ratio	4.411	4.055	3.526	

Suspension

Front	McPherson strut, stabiliser bar; gas-filled shock absorbers
Rear	Inverted-V torsion beam with stabiliser function included; gas-filled shock absorbers

Brakes *	Standard	Optional
Front	Ventilated discs (Ø258 mm)	Ventilated discs (Ø258 mm)
Rear	Drums (Ø203 mm)	Solid discs (Ø278 mm)
Additional features	ABS with EBD and BA (Brake Assist) VSC standard on vehicles with rear disc brakes	

* Vehicles produced in Europe



Steering

Type	Rack and pinion
Ratio (:1)	14.2 (13.9 with 165/70 R 14 tyres)
Turns (lock to lock)	3.0
Min. turning radius – tyre (m)	4.7 (4.4 with 165/70 R 14 tyres)
Additional features	Electric Motor Power Steering (EMPS)

Tyres	1.0-litre, entry grade *	Standard
Tyre size	165/70 R 14	185/60 R 15

* only in selected countries

Exterior dimensions

Overall length (mm)	3,750
Overall width (mm)	1,695
Overall height (mm)	1,530
Wheelbase (mm)	2,460
Tread (mm) front	1,470 (1,480 with 165/70 R 14 tyres)
Tread (mm) rear	1,460 (1,470 with 165/70 R 14 tyres)
Front overhang (mm)	725
Rear overhang (mm)	565

Interior dimensions

Interior length (mm)	1,865
Interior width (mm)	1,390
Interior height (mm)	1,270
Head room (mm)	Front 1,000
	Rear 963
Shoulder room (mm)	Front 1,300
	Rear 1,269
Leg room (mm)	Front 1,048
	Rear 865
Couple distance (mm)	880

Luggage compartment

VDA luggage capacity, rear seat up (m³)	0.272-0.363
VDA luggage capacity, rear seat down¹ (m³)	0.737/1.086
Length² (mm)	1,325
Max. width (mm)	1,310
Height³ (mm)	910

¹ Loaded up to the top edge of front seats / loaded up to the roof, deckboard removed

² With rear seat folded

³ With deck board removed

Weights	1.0-litre VVT-i	1.3-litre VVT-i	1.4-litre D-4D
Kerb weight (kg)	980-1,030	1,010-1,055	1,055-1,115
Gross vehicle weight (kg)	1,440	1,480	1,525

Performance	1.0-litre VVT-i	1.3-litre VVT-i	1.4-litre D-4D
Transmission	5 M/T 5 M/M	5 M/T 5 M/M	5 M/T 5 M/M
Max. speed (km/h)	155	155	170
0-100 km/h (sec.)	15.7	16.9	11.5
0-400 m (sec.)	19.6	20.5	18.2

Fuel consumption ⁴	1.0-litre VVT-i	1.3-litre VVT-i	1.4-litre D-4D
Transmission	5 M/T 5 M/M	5 M/T 5 M/M	5 M/T 5 M/M
Combined (l/100km)	5.4	5.3	6.0
Extra urban (l/100km)	4.9	4.9	5.3
Urban (l/100km)	6.4	6.0	7.2
Fuel tank capacity (l)	42	42	42

CO₂ emissions ⁴	1.0-litre VVT-i	1.3-litre VVT-i	1.4-litre D-4D
Transmission	5 M/T 5 M/M	5 M/T 5 M/M	5 M/T 5 M/M
Combined (g/km)	127	125	141
Extra urban (g/km)	115	115	124
Urban (g/100km)	148	141	170

Other emissions ⁵	1.0-litre VVT-i	1.3-litre VVT-i	1.4-litre D-4D
Transmission	5 M/T 5 M/M	5 M/T 5 M/M	5 M/T 5 M/M
CO (g/km)	0.58	0.53	0.39
HC (g/km)	0.07	0.06	0.04
NOx (g/km)	0.01	0.01	0.01
HC+NOx (g/km)	-	-	-
PM (g/km)	-	-	-

Noise levels ⁶	1.0-litre VVT-i	1.3-litre VVT-i	1.4-litre D-4D
Transmission	5 M/T 5 M/M	5 M/T 5 M/M	5 M/T 5 M/M
Stationary (dB(A))	80.0	80.0	68.0
Drive-by (dB(A))	70.0	70.0	82.0

⁴ According to Directive 80/1268-2004/3/EC

⁵ According to Directive 70/220-2003/76/EC

⁶ According to Directive 70/157-1999/101/EC



More refinement for the legendary Land Cruiser



More refinement for the legendary Land Cruiser

- At the forefront of the European 4x4 market
- Contemporary styling and more comfort features
- Navigation now available with rear camera
- Recent engine upgrades: more power, less fuel consumption

Few cars on the market have achieved the legendary status of the Toyota Land Cruiser. Built to withstand some of the toughest driving conditions on earth, Land Cruiser also offers remarkable sophistication, refinement and driving pleasure.

Now Land Cruiser gets a new look, for more refinement, and extra specification to further enhance passenger comfort and driving pleasure. The model range improvements will ensure Land Cruiser remains at the forefront of the European 4x4 segment where its high performance engines are a favourite with customers.

The fresh exterior styling of Land Cruiser adds a more dynamic and refined look to reflect the superior quality of the model range. It keeps Land Cruiser contemporary without reducing the rugged, off-road character that is such an essential part of its appeal.



Parts of the new “darkened” theme are the darkened headlamps and new darkened front grille. The colour contrast highlights these visual elements to add a more sporting dynamic and a new level of refinement. At the same time, the six-spoke alloy wheels with a new darkened finish complement the look and emphasise the rugged appeal by drawing the eye to the bold wheel arches.



Further refinement is created with the fitment of privacy glass as standard equipment on higher grade models to enhance the premium quality status of Land Cruiser.

Inside the upgraded Land Cruiser, extra equipment and more refined styling elements add to passenger comfort and the premium quality ambience.

A steering wheel with integrated audio control is available from mid-grade while a new black wood and leather-trimmed steering wheel design, sophisticated black wood inserts on door trims and the dashboard complement the full leather trim on higher grade models.



Additional available features include Bluetooth connectivity via the steering wheel audio controls and rear-parking sensors.

In combination with the full-map navigation, customers can now select a rear camera to aid parking and enhance safety, especially when manoeuvring in confined spaces. For an unobstructed view, the spare tire is not fitted on the back door but underneath the car.

Rear camera & headrest DVD screen



A range of modular in-car entertainment accessories enable Land Cruiser to be customised for personal and family pleasure. These include an optional JBL premium audio system, an i-POD connection and updated rear headrest DVD screens which offer even better picture quality. The new DVD player is also compatible with a wider range of formats, including SD-card, Div-X and MP3.

At the heart of the Land Cruiser range, the high technology 3.0-litre D-4D diesel engine embodies all the core values of the brand – rugged, dependable, sophisticated and economical. Recently upgraded to increase output with reduced CO₂ emissions, it is fully compliant with Euro 4 emissions standards and offers high performance with consideration for the environment. The diesel engine can be optionally retrofitted with a Diesel Particulate Filter (DPF).

The 3.0 litre D-4D in the Land Cruiser is already one of the most technically advanced diesel engines in the world, developing 410 Nm of torque to fully justify the vehicle's 'go-anywhere' reputation. Now power output has been increased still further – up to 127 kW (173 hp DIN) at 3,400 rpm - and the maximum torque band widened across 1,600 rpm to 2,800 rpm.

Fuel economy and exhaust emissions have been improved with the recent engine upgrade by the end of 2006 as well. Fuel consumption for the 3-door version equipped with automatic transmission falls to 8.9 litres/100 km, an improvement of 13.6%. At the same time, CO₂ emissions are also slashed, especially on the versions equipped with automatic transmission, where a reduction of more than 12% occurs (for combined cycle).

Technical specifications

Environmental performance	Diesel 3,0 litre D-4D	Diesel 3,0 litre D-4D	Petrol 4,0 litre V6 VVT-i
Transmission	6 M/T	5 A/T	5 A/T
Fuel consumption (EU directive 80/1268-1999/100/EC)			
Combined (litres/100 km)			
5-door	9,1	9,0	12,4
3-door	9,0	8,9	12,3
Extra urban (litres/100 km)			
5-door	7,9	7,5	9,8
3-door	7,9	7,5	9,7
Urban (litres/100 km)			
5-door	11,1	11,6	16,7
3-door	11,0	11,4	16,6
Recommended fuel grade	Diesel (48 cetane diesel)	Diesel (48 cetane diesel)	Petrol (95 octane petrol)
Fuel tank capacity (litres)	87	87	87
Carbon dioxide, CO ₂ , g/km			
Combined (g/km)			
5-door	244	243	291
3-door	242	240	288
Extra urban (g/km)			
5-door	213	202	232
3-door	212	202	230
Urban (g/km)			
5-door	298	312	392
3-door	293	306	389
Exhaust emissions (EU directive 70/220-1999/102 (stage 3)/EC)			
Euro class	Euro 4	Euro 4	Euro 4
Carbon monoxide, CO	0,04	0,02	0,68
Hydrocarbons, HC	–	–	0,06
Nitrogen oxides, NOx	0,31	0,32	0
Hydrocarbons, HC & Nitrogen Oxides, NOx	0,32	0,32	–
Particulates, PM (g/km)	0,04	0,04	–
Noise (drive-by) (EU directive 1999/101/EC)			
Noise dB(A) (5-door & 3-door)	71,5	69,7	69,6

Engine	Diesel 3,0 litre D-4D	Petrol 4,0 litre V6 VVT-i
Type	L4 DI	V6
Transmission	6 M/T and 5 A/T	5 A/T
Engine code	1KD-FTV	1GR-FE
Number of cylinders	4 in line	6 in V
Valve mechanism	16 valve DOHC belt drive	24 valve DOHC VVT-i chain drive
Fuel injection system	Direct injection with common rail and intercooler	Electronic fuel injection
Displacement (cc)	2982	3956
Bore x stroke (mm)	96,0 x 103,0	94,0 x 95,0
Compression ratio	17,9:1	10,0:1
Maximum output (kW/rpm)	127 (173 DIN hp)/3400	183 (249 DIN hp)/5200
Maximum torque (Nm/rpm)	410/1600–2800	380/3800

Performance	Diesel 3,0 litre D-4D	Diesel 3,0 litre D-4D	Petrol 4,0 litre V6 VVT-i
Transmission	6 M/T	5 A/T	5 A/T
Maximum speed (km/h)	175	175	180
0-100 km/h (sec.)	11,5	11,2	9,1
0-400 m (sec.)	16,8	16,3	15,9
Drag coefficient	0,38	0,38	0,38

Off-road performance	5-door wide	5-door narrow	3-door wide	3-door narrow
Min. running ground clearance (mm)	222	207	222	207
Approach angle (°)	32	31	32	31
Departure angle (°)	27	26	30	29
Ramp brake over angle (°)	20	20	24	24
Wading depth (mm)		700		
Limit angle of vehicle turn over (°)		42		

* Automatic transmission only.

Suspension	
Front	Double wishbone with coil springs
Rear	Four link with coil springs
Stabiliser bar (mm)	Front 29 Rear 19–21

Tyres and wheels	Narrow body pack	Wide body pack
17 steel wheels w/225/70R17 tyres	•	-
17 alloy wheels w/265/65R17 tyres	-	•
17 alloy wheels (smoked finish) w/265/65R17 tyres	-	•
Full size spare wheel*	Steel	Alloy

* Underfloor, mounted spare wheel also available. Check with your Toyota retailer.

Brakes	
Front & rear	Ventilated discs
ABS, EBD & BA	Standard on Up1/ optional on the Base grade and Up2
ABS, VSC & A-TRC + EBD & BA	Standard on Up2/ optional on Base grade and Up1

Transmission	Diesel 3,0 litre D-4D	Petrol 4,0 litre V6 VVT-i
Gearbox type	6 M/T or 5 A/T	5 A/T
Drive type	Full-time 4WD	

M/T = Manual transmission A/T = Automatic transmission • = Standard ° = Optional – = Not available

Dimensions And Weights

Dimensions	Length	Width	Height	Wheelbase
3-door				
Narrow body with back door spare tyre (mm)	4365	1790	1850*	2455
Wide body with back door spare tyre (mm)	4405	1875	1865*	2455
5-door				
Narrow body with back door spare tyre (mm)§	4810	1790	1850*	2790
Narrow body with back door spare tyre (mm)•	4810	1790	1840*	2790
Narrow body without back door spare tyre (mm)§	4715	1790	1850*	2790
Narrow body without back door spare tyre (mm)•	4715	1790	1840*	2790
Wide body with back door spare tyre (mm)§	4850	1875	1865*	2790
Wide body with back door spare tyre (mm)•	4850	1875	1855*	2790
Wide body without back door spare tyre (mm)§	4715	1875	1865*	2790
Wide body without back door spare tyre (mm)•	4715	1875	1855*	2790
	Narrow	Wide		
Front and rear tread (mm)	1535	1575		
Minimum turning radius (m)	5,7 (5-door narrow & wide)	5,2 (3-door narrow & wide)		



Weights	5-door	3-door
Kerb weight (kg)		
– petrol	1870–2080	1770–1910
– diesel	1950–2190	1850–2030
Gross vehicle weight (kg)	2850	2600
Towing capacity		
With brakes (kg)	2800	2800
Without brakes (kg)	750	750

* With roof rails + 40 mm. § With coil suspension. • With air suspension.

