

*This press pack accompanied the UK launch of the revised eighth generation Corolla in January 2000. The model underwent some changes during its time on sale and these can be tracked using the Timeline feature on the eighth generation Corolla archive web page. Additional assets and information about the Corolla range can be obtained from the Toyota press office.*

# 1 NEW COROLLA IN THE UK MARKET

## KEY POINTS

- Distinctive new look for the world's best selling car
- Two new high tech petrol engines with Toyota's VVT-i system
- Clean and frugal new diesel engine meets European Step 3 emissions standards
- Simpler grade strategy with consistent price increments between grades
- Three body styles – 3dr hatchback, 5dr liftback and 5dr estate
- Four well specified grades - 'S', 'GS', 'SR' and 'GLS'
- Improved handling through stiffer body construction
- New choice of interior fabrics and 11 exterior colours
- Sports 3dr 1.6 VVT-i 'SR' model with six speed gearbox
- Re-assuring Corolla reliability
- UK built 5dr liftback models
- Extended service intervals and low cost of ownership
- Affordable turn-by-turn satellite navigation system optional
- High security remote double door locking standard on most models
- Anti-lock brakes with electronic brake force distribution on most models
- Integrated multi-function dashboard display standard on all models
- Competitive replacement parts costs
- Low insurance group ratings predicted
- Toyota Drive Plans: Peace of mind purchasing and servicing
- On-the-road prices from £9,995 to £16,245
- On sale 1 February 2000

## SHORT STORY

Few names conjure up such a re-assuring feeling as that of Corolla. Through eight generations of Toyota's small family car, the name has become synonymous with a robust and reliable reputation allied to the latest technologies – Jeremy Clarkson might not be the car's greatest fan but even he has to admit that the Corolla is a global success story. Over 23 million Corollas built and as many satisfied customers since 1966 are testament to that.

Toyota introduced the latest eighth generation Corolla in the UK on 23 June 1997. The new design abandoned the 'world car' approach that had previously dictated the car's production and marketing strategy in favour of a distinct new rounded look created specifically for

Europe with major input from Toyota's European Design Panel. Two and a half years later, the latest Corolla has become a familiar sight on UK roads achieving over 20,000 UK sales in both 1998 and 1999.

Globally, the Corolla is now a well-known shape thanks to extensive media coverage of the World Rally Championship where the car bowed out on the world rallying stage by winning the Manufacturers' Championship in November last year.

From 1 February 2000, Toyota will sell a new Corolla that adopts a distinguished and more robust family look similar to that of the bigger Avensis. The car features two new petrol engines - a 1.4-litre 16v and 1.6-litre 16v which employ Toyota's VVT-i (Variable Valve Timing-intelligent) system already seen on the award-winning Toyota Yaris supermini - European Car of the Year 2000. A proven 1.9-litre indirect injection diesel engine is also introduced in the range and has been engineered to meet the stringent European Step III emissions standards which become mandatory in October this year.

Inside, the new Corolla features an improved selection of contemporary velour and cloth upholsteries and a modified dashboard housing an integrated multi-function display. All new Corolla models can also be specified with the optional turn-by-turn satellite navigation system which uses the LCD display from the multi-function unit plus voice guidance. A new range of 11 exterior colours, seven of which are metallic are also introduced.

The Corolla's proven strut-based chassis continues although body stiffness is improved with the addition of an extra floor cross member for better handling. The UK-built liftback models are also now equipped with a suspension brace added to the rear suspension for even greater rigidity. The sporty SR six-speed model adopts new 'pillow ball' bushings on its secondary lower arms to improve ride comfort, stability and controllability.

Twin front airbags and five, three point seatbelts (the front ones with pre-tensioners and electronic force limiters) are standard on all models. Anti-lock brakes, now with electronic brake force distribution are standard fitment to all but the lead-in models to further improve safety.

All new Corollas are fitted as standard with a key-embedded transponder engine immobiliser and all but the lead-in 'S' models are now equipped with double locking security locks. This deadlocking system prevents a thief opening a door if a window has been smashed.



All-in-all the simplification of and improvements to the Corolla range will reinforce the car's market position as a dependable and cost effective purchase. In addition the new Corolla employs intelligent technologies making it not only a better drive but also an obvious choice on any C-segment car buyer's shortlist.

## **UK PRICE, RANGE AND BADGING**

The UK is not following the European mainland markets with a three tier, 'Linea Terra', 'Linea Sol' and 'G6' badging scheme as this is incompatible with the UK fleet market which demands more hierarchically clear derivatives. Broadly speaking, European 'Terra' badged Corollas are equivalent to UK 'S' and 'GS' specification cars while 'Sol' is badged 'GLS' in the UK. The sporty 3dr 1.6 VVT-i model with six-speed manual gearbox is badged 'G6' across Europe but 'SR' in the UK to match its sporting SR equivalents in the Avensis and Yaris ranges.

Range complexity is simplified from last year's six badge line up ('i', 'S', 'SE', 'GS', 'G6' and 'GLS') to just four trim specifications: 'S', 'GS', 'SR' and top of the range 'GLS'. Three body styles are offered – three door hatchback, five door liftback and five door estate. Optimisation of the model mix has seen the saloon variant deleted from the range (it accounted for just 0.5 per cent of UK Corolla sales).

A simple and transparent pricing and grade structure for the new Corolla has been designed to be easy for the customer to understand. A premium of £500 is asked for the 5dr liftback model over the 3dr hatchback body style while an estate costs £2,000 more than a liftback. It costs £1,900 to 'walk up' from 'S' to 'GS' specification or £1,500 from 'GS' to 'GLS'. A four speed automatic gearbox is available only with certain liftback models using the 1.6 VVT-i engine and costs £850 extra. Specifying the 1.6 VVT-i engine over the new 1.4 VVT-i costs £350 while the new 1.9 diesel engine costs £500 more than the 1.4 VVT-i.

The 1.6 VVT-i 3dr six speed hatchback 'SR' model has its own unique trim and specification and costs £14,405. The SR was previously known as the 'G6R' and latterly the 'G6' in the out-going Corolla range but this new model now mates the new 1.6-litre 16v VVT-i engine to the close ratio six-speed gearbox to provide a sporty drive with an attractive insurance rating predicted to be in group 9E.

**PRICE LIST (by grade order)**

<b>GRADE</b>	<b>ENGINE</b>		<b>BODY</b>	<b>TRANSMISSION</b>	<b>OTR PRICE</b>
S	1.4	VVT-i	3 Door	Manual	£9,995
S	1.4	VVT-i	5 Door	Manual	£10,495
S	1.6	VVT-i	5 Door	Automatic	£11,695
GS	1.4	VVT-i	3 Door	Manual	£11,895
GS	1.4	VVT-i	5 Door	Manual	£12,395
GS	1.4	VVT-i	Estate	Manual	£14,395
GS	1.6	VVT-i	5 Door	Manual	£12,745
GS	1.6	VVT-i	5 Door	Automatic	£13,595
GS	1.9	Diesel	5 Door	Manual	£12,895
GS	1.9	Diesel	Estate	Manual	£14,895
SR	1.6	VVT-i	3 Door	6 Speed Manual	£14,405
GLS	1.4	VVT-i	5 Door	Manual	£13,895
GLS	1.6	VVT-i	5 Door	Manual	£14,245
GLS	1.6	VVT-i	5 Door	Automatic	£15,095
GLS	1.6	VVT-i	Estate	Manual	£16,245

## PRICE LIST (by body style)

GRADE	ENGINE		BODY	TRANSMISSION	OTR PRICE
S	1.4	VVT-i	3 Door	5 speed Manual	£9,995
GS	1.4	VVT-i	3 Door	5 speed Manual	£11,895
SR	1.6	VVT-i	3 Door	6 Speed Manual	£14,405
S	1.4	VVT-i	5 Door	5 speed Manual	£10,495
S	1.6	VVT-i	5 Door	4 speed Automatic	£11,695
GS	1.4	VVT-i	5 Door	5 speed Manual	£12,395
GS	1.6	VVT-i	5 Door	5 speed Manual	£12,745
GS	1.9	Diesel	5 Door	5 speed Manual	£12,895
GS	1.6	VVT-i	5 Door	4 speed Automatic	£13,595
GLS	1.4	VVT-i	5 Door	5 speed Manual	£13,895
GLS	1.6	VVT-i	5 Door	5 speed Manual	£14,245
GLS	1.6	VVT-i	5 Door	4 speed Automatic	£15,095
GS	1.4	VVT-i	Estate	5 speed Manual	£14,395
GS	1.9	Diesel	Estate	5 speed Manual	£14,895
GLS	1.6	VVT-i	Estate	5 speed Manual	£16,245



## FULL UK EQUIPMENT LISTING

EQUIPMENT LEVEL			
S	GS	SR	GLS
INCLUDES:-	INCLUDES:-	INCLUDES:-	INCLUDES:-
TILT STEERING	←	←	←
HEIGHT ADJUSTABLE DRIVER'S SEAT	←	←	←
DUAL AIRBAGS	←	←	←
RADIO/CASSETTE + 2 SPEAKERS	RDS R/C + 4 SPEAKERS	CD/ RDS TUNER+ 6 SPEAKERS	6 DISC IN-DASH CD/RDS TUNER/R/C + 6 SPEAKERS
POWER STEERING	←	←	←
IMMOBILISER	←	←	←
TINTED GLASS	←	←	←
MULTI-FUNCTION DASHBOARD DISPLAY	←	←	←
CENTRAL LOCKING	REMOTE CL + DEADLOCKING	←	←
3 REAR HEADRESTS (2 ON 3 DOOR)	←	←	←
REAR SPOILER ON ALL 3 DOOR MODELS	←	←	
FIVE 3-POINT SEATBELTS	←	←	←
EXTERIOR TEMP GAUGE	←	←	←
TACHOMETER	←	←	←
	POWER FRONT WINDOWS	←	+ POWER REAR WINDOWS
	POWER HEATED DOOR MIRRORS	←	←
	ANTI-LOCK BRAKES + EBD	←	←
	COLOUR KEYED BODY	←	←
	AIR CONDITIONING	←	←
		ALLOY WHEELS	←
		POWER SUNROOF	←
		FRONT FOG LAMPS	←
		4 DISC BRAKES	←
		MUD FLAPS	←
		SPORTS TRIM	VELOUR TRIM
			REMOTE ALARM

## **UK OPTIONAL EQUIPMENT & COROLLA 'VALUE PACKS'**

New Corolla is available with a host of optional accessories - a few of these are listed below. Two 'Value Packs' have also been specially tailored to the tastes and requirements of Corolla owners.

### **Body Styling – Exterior**

Coral alloy wheels  
Estoril alloy wheels  
Quad alloy wheels  
Qualifier alloy wheels  
Racelite alloy wheels  
Locking wheel nuts  
Front skirt  
Rear lower spoiler (liftback)  
Rear roof spoiler (liftback)

### **Body Styling – Interior**

Alloy pedals

### **Electrical**

Air conditioning  
Front fog lamps  
Parking corner sensors (except SR)

### **Communication**

Turn by turn navigation  
CD Roms for most European countries  
Tracker vehicle location system

### **Protection**

Boot liner  
Cargo net (estate)  
Dog guard (liftback)  
Head lamp protectors  
Mud flaps  
Tailored carpet mats  
Tailored seat covers

### **Roof Racks & Accessories**

Bar rack (hatchback)  
Bar rack (liftback)  
Bike holder  
Roof box  
Sailboard holder  
Ski holder

### **Touring & Towing**

Emergency kit  
Tow bar  
12V wiring kit

### **In-Car Entertainment**

6 disc in-dash CD autochanger  
6 disc mini disc autochanger  
Tape deck

The two Value Packs for the Corolla consist of:

#### **Protection Pack 1 (for S and GS models) - £99.95 inc VAT**

- Mat set (grey or black)
- Mud flaps x 4
- Headlamp covers

#### **Protection Pack 2 (for GLS and SR models) - £59.95 inc VAT**

- Mat set (grey or black)
- Headlamp covers



## THE LOWER MEDIUM SEGMENT AND COROLLA MARKET POTENTIAL

The UK Lower Medium or C segment of the UK car market can account for up to three quarters of a million sales each year. It is not only the largest sector but also accounts for the most retail vehicle sales making it highly competitive and an area of intense manufacturer marketing activity.

Since introduction in June 1997, the latest eighth Generation Corolla has achieved Toyota GB's greatest Lower Medium sector penetration with over 20,000 sales in its first two full years of sales in 1998 and 1999. Corolla therefore takes around three per cent of the Lower Medium sector and itself accounts for around 27 per cent of Toyota GB's annual sales.

Introduction of the new Corolla is expected to maintain sales at around a similar level this year while the five door liftback model will continue to account for around 70 per cent of sales (20 per cent hatchback, 10 per cent estate).

GS specification is expected to continue as the most popular trim level with 70 per cent of sales. 15 per cent of sales are expected to go to the top of the range GLS models, 10 per cent to the entry level S grade and 5 per cent to the sporty six speed SR model.

## COROLLA UK SALES HISTORY

<b>1965-1971</b> 3631	<b>1972</b> 5253	<b>1973</b> 7666	<b>1974</b> 7046	<b>1975</b> 8310	<b>1976</b> 9657	<b>1977</b> 11850	<b>1978</b> 10315	<b>1979</b> 9116	<b>1980</b> 13620
<b>1981</b> 9221	<b>1982</b> 10976	<b>1983</b> 7593	<b>1984</b> 11691	<b>1985</b> 15121	<b>1986</b> 15943	<b>1987</b> 16233	<b>1988</b> 17620	<b>1989</b> 18936	<b>1990</b> 16221
<b>1991</b> 15069	<b>1992</b> 15224	<b>1993</b> 18924	<b>1994</b> 15285	<b>1995</b> 11689	<b>1996</b> 11472	<b>1997</b> 15249	<b>1998</b> 22572	<b>1999</b> 20114*	

\* Figure to end of November 1999

## COROLLA SPECIFICATION VS COMPETITORS

	COROLLA GS 1.4	FOCUS Zetec 1.6	306 LX 1.4	MEGANE RT 1.4	ASTRA LS 1.4	GOLF S 1.4
<b>Price (on-the-road)</b>	<b>£12,395</b>	<b>£13,500</b>	<b>£12,870</b>	<b>£12,600</b>	<b>£13,375</b>	<b>£13,425</b>
Driver and front passenger airbags	✓	✓	✓	✓	✓	✓
Anti-lock braking system	✓	-	✓	✓	-	✓
Five three point seatbelts	✓	✓	-	✓	✓	-
Remote central locking	✓	✓	✓	✓	✓	-
Double locking	✓	✓	✓	-	✓	-
Air conditioning	✓	-	✓	-	-	-
Electric glass sunroof	-	-	-	✓	✓	-
Electric front windows	✓	✓	✓	✓	✓	✓
Heated power exterior mirrors	✓	-	✓	✓	-	✓
Trip computer	✓	-	-	✓	-	-
RDS Radio / Cassette	✓	non RDS	CD	✓	✓	✓
Four speakers	✓	✓	✓	✓	✓	✓
Full colour keyed body	✓	-	✓	✓	✓	-
Warranty - Three year / 60,000 miles	✓	-	-	-	-	✓
<b>Value adjusted comparison</b>		<b>+15.1%</b>	<b>+5.6%</b>	<b>+3.5%</b>	<b>+13.9%</b>	<b>+14.4%</b>

	COROLLA GLS 1.6	FOCUS Ghia 1.6	306 GLX 1.6	MEGANE RXE 1.6	ASTRA CD 1.6	GOLF SE 1.6
<b>Price (on-the-road)</b>	<b>£14,245</b>	<b>£14,500</b>	<b>£13,770</b>	<b>£14,400</b>	<b>£14,525</b>	<b>£15,255</b>
Driver and front passenger airbags	✓	✓	✓	✓	✓	✓
Anti-lock braking system	✓	-	✓	✓	-	✓
Double locking	✓	✓	✓	-	✓	-
Volumetric alarm system	✓	-	-	-	-	✓
Air conditioning	✓	✓	✓	✓	✓	-
Electric glass sunroof	✓	-	-	✓	-	✓
Electric windows (front & rear)	✓	-	✓	✓	-	✓
Heated power exterior mirrors	✓	✓	✓	✓	✓	✓
Trip computer	✓	-	-	✓	-	✓
CD Autochanger	✓	-	✓	✓	-	-
Six speakers	✓	-	-	✓	✓	✓
Alloy wheels	✓	✓	✓	✓	✓	-
Front fog lights	✓	✓	✓	-	-	-
Warranty - Three year / 60,000 miles	✓	-	-	-	-	✓
<b>Value adjusted comparison</b>		<b>+10.8%</b>	<b>+0.2%</b>	<b>+1.7%</b>	<b>+10.5%</b>	<b>+14.6%</b>



## **COROLLA AND THE UK FLEET MARKET**

The Lower Medium sector of the UK car market accounted for nearly 374,000 fleet sales in 1998 of which Corolla achieved a 2.3 per cent penetration or over 8000 Corolla fleet sales.

A number of factors will see the new Corolla well placed to see a significant growth in its fleet market potential. With the introduction of the new VVT-i petrol engines and the extended servicing intervals which accompany these, the new Corolla is likely to boast class leading whole life cost figures.

Speculation over company car tax changes being linked to CO<sub>2</sub> emissions will also leave the new Corolla well placed as fleet managers seek to increase the environmental friendliness of their fleets.

Tax paying 'user choosers' will also be looking to downsize to smaller, more fuel efficient cars like the new Corolla if these fiscal changes are brought into effect in the near future. Corolla's traditionally high level of standard specification and good residual values will continue to be a strong pull.

Toyota GB will continue to offer Corolla to established fleet operators and contract hire companies, limited badge fleets, sales partnership, non established fleet operators, self drive hire and Motability.

## **BUYING AND LIVING WITH THE NEW COROLLA – TOYOTA DRIVE PLANS**

For the launch of the Yaris supermini and most recently, the Celica coupe, Toyota offered a set of specially developed purchase finance and servicing plans. These 'Toyota Drive Plans' are now being rolled out across all the company's vehicles including the new Corolla.

The Toyota Drive Plans are a fresh new approach to offer customers easy and affordable ways to drive and maintain the Toyota of their choice.



The Toyota Drive Plans are:

- **Easy Start**

- Low start Toyota Terms finance package
- Appeals to young customers and second car buyers for whom a low initial downpayment is important
- One rental payment in advance plus 23 monthly payments plus guaranteed future value buys the car

- **Easy Drive**

- Worry free motoring for a single monthly payment – Toyota Terms including servicing, extended Club Toyota membership and optional car insurance
- Appeals to private individual and 'cash for cars' customers who have a fixed motoring budget
- Includes the cost of the car on a two or three year Toyota Terms agreement
- Includes a two or three years Easy Care servicing plan
- Includes two or three years Club Toyota membership
- Option of two or three years car insurance through Toyota Insurance

- **Business Drive**

- Fully maintained contract hire agreement covering most motoring needs
- Appeals to business customers especially those who are VAT registered
- Includes the cost of the car on a two or three year contract hire agreement
- Includes routine scheduled servicing
- Mechanical repairs (required through fair wear and tear)
- Replacement tyres
- Relief vehicle in the event of mechanical failure
- Renewal of Road Fund Licence in second and third years
- RAC cover/European cover/Extended Club Toyota membership
- Accident Management service

- **Easy Care**

- Stand alone pre-paid servicing plan purchased outright or by 10 monthly direct debits
- Available over two or three years with mileage options up to 40,000 miles per annum
- Covers major service and intermediate oil/oil filter change(s), service parts, consumables and administration costs

## **EXTENDED SERVICE INTERVALS MEAN LOWER RUNNING COSTS**

Thanks to its advanced new VVT-i engines, the new Corolla does not require a first one thousand mile service (as the out-going petrol models did), and full services are only required every 20,000 miles or two years (whichever is sooner).

The new 1.4 and 1.6-litre 16v VVT-i engines use a timing chain and tappets which are maintenance free, they do not require expensive platinum tipped spark plugs and will run on ordinary mineral grade oil rather than more expensive semi and fully synthetic oils. Toyota's direct ignition system does not require adjustment either, and the spark plugs only require changing every 40,000 miles.

Every 10,000 miles or 12 months (whichever is sooner), Toyota recommends a 'Health and Safety' check which takes just 30 minutes. This involves an oil and oil filter change and safety items check.

The out-going petrol Corollas required a service every 9,000 miles or one year. With their new 20,000 mile/two year service intervals and 10,000 mile Health and Safety checks, the new petrol Corollas will be significantly cheaper to maintain over a three year/60,000 mile period than the previous 1.3 and 1.6 petrol models. The new 1.9-litre diesel engine requires an intermediate service at 6000 miles and a major service at 12,000 miles.

Items inspected during the Health and Safety check include:

- Oil and oil filter (changed every 10,000 miles or one year)
- Air filter
- Brake pads and discs
- Tyres and lights

During a full service at 20,000 miles or two years the following is replaced/replenished:

- Oil and oil filter
- Clutch fluid
- Brake fluid

Plus an inspection is made of the following:

- Air filter
- Spark plugs
- Drive shaft boots
- Exhaust pipes and mountings
- Air conditioning filter
- Fuel tank filler cap lines, connections and vapour control
- Brake pedal and hand brake
- Brakes, pads and discs
- Brakes, hoses and pipes
- Front and rear suspension
- Power steering system and fluid
- Steering wheel, linkage and steering gear box oil
- Ball joints, dust covers, tyres and lights

### **COMPETITIVE REPLACEMENT PARTS PRICES**

Toyota is continuing to explode the myth that its replacement parts costs are expensive. The following table compares new Corolla front and rear crash replacement parts costs plus some typical routine servicing items. The new Corolla is significantly cheaper compared to the Peugeot 306 and Honda Civic and in some instances is able to undercut the volume sellers in the Lower Medium segment - the Ford Focus and Vauxhall Astra – both of which are newer designs and are able to employ far greater economies of scale due to their sales volumes.



## NEW COROLLA - COMPETITOR PRICING COMPARISON

Part	Toyota Corolla	Ford Focus	Vauxhall Astra	Peugeot 306	Honda Civic	VW Golf
Bonnet	£ 149.50	£ 121.91	£ 135.00	£ 224.30	£ 182.10	£ 142.00
Radiator Grille	£ 39.63	£ 26.10	£ 30.95	£ 35.63	£ 49.87	£ 27.00
Front bumper cover	£ 84.65	£ 106.95	£ 150.00	£ 174.91	£ 194.45	£ 99.00
Front wing	£ 89.66	£ 54.90	£ 69.00	£ 66.21	£ 78.38	£ 67.00
Headlamp (excl. bulb)	£ 89.65	£ 81.81	£ 47.00	£ 110.57	£ 84.69	£ 87.00
Front indicator (excl. bulb)	£ 26.48	£ 12.94	part of h/lamp	part of h/lamp	part of h/lamp	part of h/lamp
<b>Total Front</b>	<b>£ 479.57</b>	<b>£ 404.61</b>	<b>£ 431.95</b>	<b>£ 611.62</b>	<b>£ 589.49</b>	<b>£ 422.00</b>
% Diff. vs. New Corolla		(15.6%)	(9.9%)	+ 27.5%	+ 22.9%	(12.0%)

Rear bumper cover	£ 79.00	£ 95.37	£ 225.00	£ 172.99	£ 183.33	£ 120.00
Tailgate	£ 151.31	£ 174.26	£ 172.00	£ 237.28	£ 204.29	£ 238.00
Rear quarter panel	£ 144.95	£ 107.08	£ 124.00	£ 149.94	£ 132.40	£ 181.00
Combination light	£ 39.38	£ 35.53	£ 22.65	£ 40.58	£ 55.56	£ 41.00
<b>Total Rear</b>	<b>£ 414.64</b>	<b>£ 412.24</b>	<b>£ 543.65</b>	<b>£ 600.79</b>	<b>£ 575.58</b>	<b>£ 580.00</b>
% Diff. vs. New Corolla		(0.6%)	+ 31.1%	+ 44.9%	+ 38.8%	+ 39.9%

Oil Filter	£ 6.95	£ 4.02	£ 4.00	£ 7.15	£ 9.36	£ 4.80
Air Filter	£ 20.77	£ 5.76	£ 6.75	£ 10.80	£ 14.69	£ 14.00
Front Brake Pads	£ 27.50	£ 49.65	£ 36.25	£ 35.69	£ 42.12	£ 43.00
Rear Brake Shoes / Pads	£ 27.50	£ 36.90	£ 21.60	£ 44.26	£ 35.05	£ 26.68
Spark Plug each	£ 3.49	£ 2.11	£ 3.12	£ 6.68	£ 4.97	£ 4.00
Spark Plugs : 1 Set	£ 13.96	£ 8.44	£ 12.48	£ 26.72	£ 19.88	£ 16.00
<b>Total Maintenance</b>	<b>£ 96.68</b>	<b>£ 104.77</b>	<b>£ 81.08</b>	<b>£ 124.62</b>	<b>£ 121.10</b>	<b>£ 104.48</b>
% Diff. vs. New Corolla		+ 8.4%	(16.1%)	+ 28.9%	+ 25.3%	+ 8.1%

<b>Grand Total</b>	<b>£ 990.89</b>	<b>£ 921.62</b>	<b>£ 1,056.68</b>	<b>£ 1,337.03</b>	<b>£ 1,286.17</b>	<b>£ 1,106.48</b>
% Diff. vs. New Corolla		(7.0%)	+ 6.6%	+ 34.9%	+ 29.8%	+ 11.7%

All Prices exclude VAT and are correct at time of going to press. Although we have made every effort to ensure this information is correct some changes may have occurred.

## **INSURANCE GROUPINGS AND SECURITY**

The new Corolla is currently being evaluated by the Association of British Insurers for insurance group ratings. The ABI's verdict will be delivered on 19 January 2000.

Toyota is targeting the following groupings:

### **'S' Grade models**

1.4-litre VVT-i: 5E  
1.6-Litre VVT-i: 8E

### **'GS' Grade models**

1.4-litre VVT-i: 6E  
1.6-litre VVT-i: 9E  
1.9D: 5E

### **'GLS' Grade models**

1.4-litre VVT-i: 6E  
1.6-litre VVT-i: 9E

### **SR Grade model**

1.6-litre VVT-i: 9E

'E' denotes a vehicle which exceeds the Motor Insurance Repair Research Centre's (Thatcham) security requirements.

All new Corollas come with a Thatcham approved key embedded engine immobiliser. All Corollas save the three lead-in 'S' models are fitted with a remote double door locking system as standard. This important security feature is a continuation of Toyota's efforts to make sure all its UK market cars have the best level of security possible – standard double door locking has recently being introduced on the 1.3-litre Yaris supermini range and the new Celica coupe.

The new Corolla also has a unique fit, multi-part stereo system and the top of the range GLS models have a Thatcham Category One alarm system as standard.

Locking wheelnuts are fitted to the alloy wheels on the GLS and SR models while all Corollas contain a number of traceable marked parts and are linked to a 24 hour security register via an etched security number on the vehicles' windows.



## **COROLLA MILESTONES**

### **1st Generation**

- Debut in November 1966 as a rear wheel drive, two-door saloon.
- Completely new car with no 'off-the-shelf' parts.
- May 1967, four door saloon and estate models introduced.
- September 1969 a larger 1.2 litre engine replaced the original 1.1 litre.

### **2nd Generation**

- Launched in May 1970.
- Styling took on a new look with longer, wider and lower bodylines.
- The line-up of two and four-door saloon, a coupe and an estate.
- June 1970, cumulative Corolla production reached 1 million units.

### **3rd Generation**

- Unveiled in April 1974.
- Choice of 1.2, 1.4 and 1.6 litre engines.
- January 1976, a 1.6 litre liftback was introduced with new sporty rear end.
- The coupe received the same styling treatment in 1977.

### **4th Generation**

- Debut in 1979 - cumulative production reached 7 million units.
- Major facelift of this generation in 1981.
- First diesel engine in Corolla range in 1982.

### **5th Generation**

- Debut in 1983 at Frankfurt Motor Show with production totalling 10 million.
- Completely new compact car with front wheel drive and range of all new OHC engines mated to standard five speed manual gearbox.
- 1984, 1.3 litre engine with new 12 valve cylinder head added.
- 1985, 16 valve 1.6 litre offered in GT version.



### **6th Generation**

- Introduced in 1987 with a saloon, hatchback, liftback and estate from launch.
- Engines offered were 1.3 and 1.6 petrol and 1.8 diesel.

### **7th Generation**

- Launched in 1991 with five bodystyles: 3-door hatchback, 4-door saloon, 5-door hatchback, 5 door liftback and estate.
- All fuel injected, twin overhead camshaft 16 valve engines with computer control and three-way catalytic converters.
- Diesel engine and GTi model added one year after launch.

### **8th Generation**

- Debut 1997 with four bodystyles 3-dr hatchback, 4-dr saloon, 5-dr liftback and estate.
- 1999 model year new badging scheme on sale October 1998.
- UK-built 5-dr liftback petrol models from October 1998 (excluding G6 liftback).
- New updated 'family look' Corolla range with VVT-i petrol engines from February 2000.

## COROLLA TECHNICAL SPECIFICATIONS

DIMENSIONS					
	Hatchback		Liftback		Estate
Interior					
Length (mm)	4120		4290		4340
Wheelbase (mm)	2465		2465		2465
Width (mm)	1690		1690		1690
Height (mm)	1385		1385		1445
Track front (mm)	1470		1470		1470
Track rear (mm)	1460		1460		1460
Exterior					
Length (mm)	1810		1810		1810
Width (mm)	1425		1425		1425
Height (mm)	1165		1165		1200
Luggage capacity m <sup>3</sup> (cu ft)	0.281 (9.9)		0.372 (13.1)		0.308 (10.9) (23.4 with seats folded)
WEIGHTS					
Kerb weight (kg)	1050-1130		1085-1165		1085-1175
Gross vehicle weight (kg)	1580		1580		1615
Drag coefficient	0.316		0.294		0.341
Fuel tank capacity	50 litres		50 litres		50 litres
PERFORMANCE					
	1.4 Manual	1.6 SR 6 speed	1.6 Manual	1.6 Auto	1.9 Diesel
0-62mph (sec)	11.8	9.8	10.2	12.6	15.6
Max Speed (mph)	115	121	121	109	102
FUEL CONSUMPTION					
	Urban	Extra-Urban	Combined	CO <sub>2</sub>	
	(mpg)	(mpg)	(mpg)	(g/km)	
1.4 S hatchback	31.7	49.6	41.5	162	
1.4 S liftback	31.7	49.6	41.5	162	
1.6 S liftback auto	26.4	43.5	35.3	192	
1.4 GS hatchback	31.7	49.6	41.5	162	
1.4 GS liftback	31.7	49.6	41.5	162	
1.4 GS estate	31.4	48.7	40.9	165	
1.6 GS liftback	31.0	47.9	40.4	168	
1.6 GS liftback auto	26.4	43.5	35.3	192	
1.9 GS liftback	32.8	52.3	42.8	180	
1.9 GS estate	32.5	51.4	42.2	182	
1.6 SR hatchback	28.8	46.3	38.2	176	
1.4 GLS liftback	31.7	49.6	41.5	162	
1.6 GLS liftback	31.0	47.9	40.4	168	
1.6 GLS liftback auto	26.4	43.5	35.3	192	
1.6 GLS estate	30.4	46.3	39.2	171	



TECHNICAL SPECIFICATION				
	1.4 VVT-i	1.6 VVT-i	1.9 Diesel	
Engine type	16 valve, DOHC	16 valve, DOHC	8 valve, OHC	
Head/Block	Alloy/Alloy	Alloy/Alloy	Alloy/Cast Iron	
Capacity (cc)	1398	1598	1867	
Bore x stroke (mm)	79.0 x 71.3	79.0 x 81.5	82.2 x 88.0	
Compression ratio	10.5:1	10.5:1	23.0:1	
Max. power (bhp/rpm)	95/6,000	109/6,000	68/4,600	
Max. torque (lb ft/rpm)	96/4,800	110/3,800	92/2,500	
TRANSMISSION				
Gear ratios - manual	1.4	1.6 SR	1.6	1.9 D
1st	3.545:1	3.166:1	3.166:1	3.545:1
2nd	1.904:1	1.904:1	1.904:1	1.869:1
3rd	1.310:1	1.310:1	1.310:1	1.280:1
4th	0.969:1	0.969:1	0.969:1	0.951:1
5th	0.815:1	0.815:1	0.815:1	0.744:1
6th		0.682:1		
Reverse	3.250:1	3.250:1	3.250:1	3.333:1
Differential (final drive)	4.058:1	4.529:1	4.058:1	3.947:1
Gear ratios - automatic	1.6			
1st	3.643:1			
2nd	2.008:1			
3rd	1.296:1			
4th	0.892:1			
reverse	2.977:1			
Differential (final drive)	2.962:1			
SUSPENSION				
Front	MacPherson strut with L-shaped lower arm, F/R ARBs			
Rear	Dual-link strut, F/R Anti-Roll Bars			
STEERING				
Type	Power assisted (steering angle & engine speed related), rack and pinion			
Ratio	18.1			
Turns lock-to-lock	3.2			
Turning circle radius (Tyre/body)	4.8/5.2 m			
BRAKES				
Front	Ventilated discs			
Rear	Drums (SR/1.6 GLS Discs)			
WHEELS & TYRES				
Wheels	14 x 5.5" steel with trims (14 x 6.0" alloy on GLS/SR)			
Tyres	175/65 HR14			
TOWING CAPACITY				
Engine type	1.4	1.6	1.9 diesel	
Braked trailer (kg)	1000	1200	1000	



## 2 FRESH FACE FOR COROLLA

- Strong family identity with new look
- All new engine line-up with advanced VVT-i technology
- Range-topping, six speed 'SR' sports model
- Smooth, economical new diesel engine
- Hi-tech multi-function display panel
- Optional turn-by-turn satellite navigation

A fresh face for Corolla, Toyota's best selling family car, introduces a bright new look and advanced technology to the range. It will give Corolla a class-leading advantage in this competitive market.

New Corolla will offer customers a better driving experience, and improved comfort and safety, while retaining the reliability and robustness for which this model is justifiably renowned.

A complete range of new petrol engines, using Toyota's award winning Variable Valve Timing-intelligent (VVT-i), makes Corolla more powerful, more economical and more enjoyable to drive. Toyota VVT-i technology gives Corolla a significant advantage over sector rivals by offering more power and more torque and yet better fuel economy and less harmful emissions.

Later in the year, Corolla will be available with Toyota's advanced D-4D, direct injection common rail 16 valve diesel engine, offering more power with more economy and less emissions. Corolla appeal in the growing diesel car market is boosted by a smooth, highly economical diesel engine, which can deliver lively performance and outstanding fuel economy.

At the head of the new Corolla range will be a stunning SR sports variant with six-speed manual transmission and sports-tuned suspension. The Corolla SR also features more sporty interior trim and a mesh-type front grille.

### **Multi-function display**

Advanced technology in new Corolla is not confined to the powertrain. A new multi-function display panel is a central feature of the new dashboard. It displays vehicle status data and

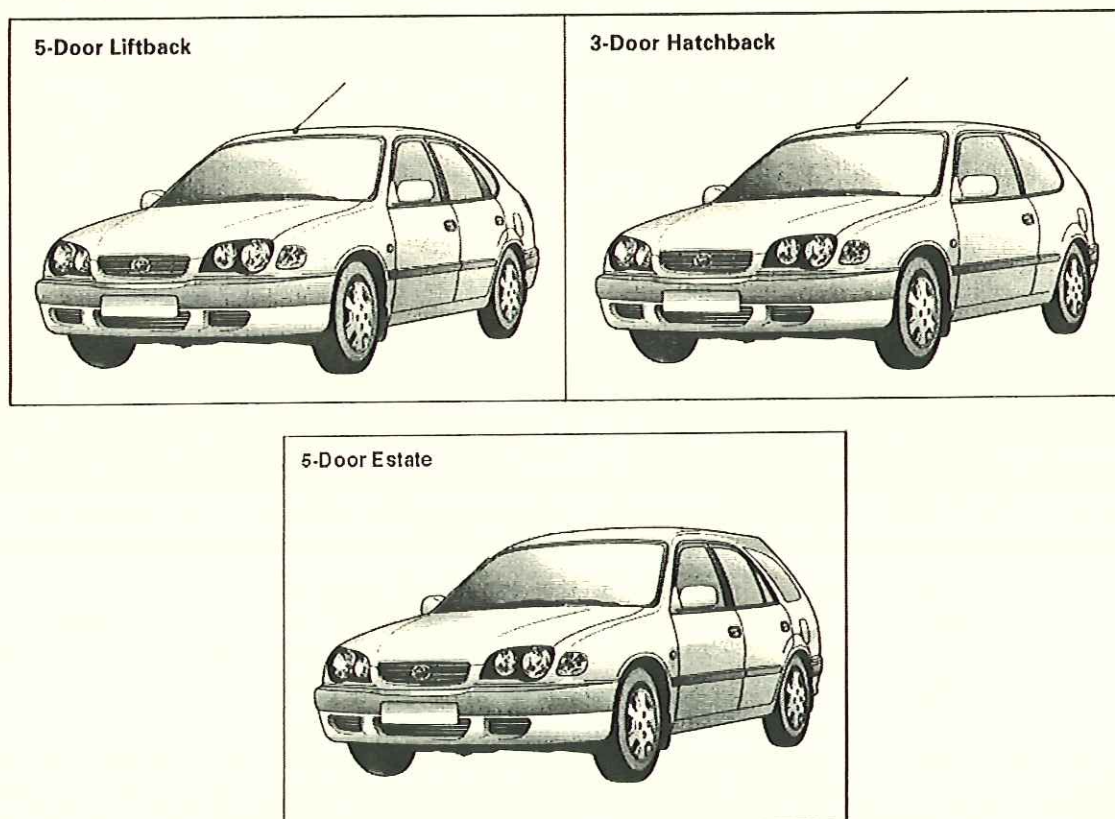
audio information. An optional extra will be Toyota's highly successful turn-by-turn satellite navigation system, already introduced on Yaris as an affordable and effective accessory in the compact car market.

### **Fresh new looks**

The new Corolla adopts a strong family style with four individual headlights, the familiar Toyota grille (except SR) and prominent Toyota symbol. It is now clearly a member of the Toyota line-up, alongside best selling models such as Yaris and Avensis.

Like its predecessor, new Corolla will be available in a wide range of body styles including three door hatchback, five door liftback and five door estate. The sports SR model will be available as a three-door hatchback with the 1.6 engine and six-speed manual transmission.

### **Body Type**

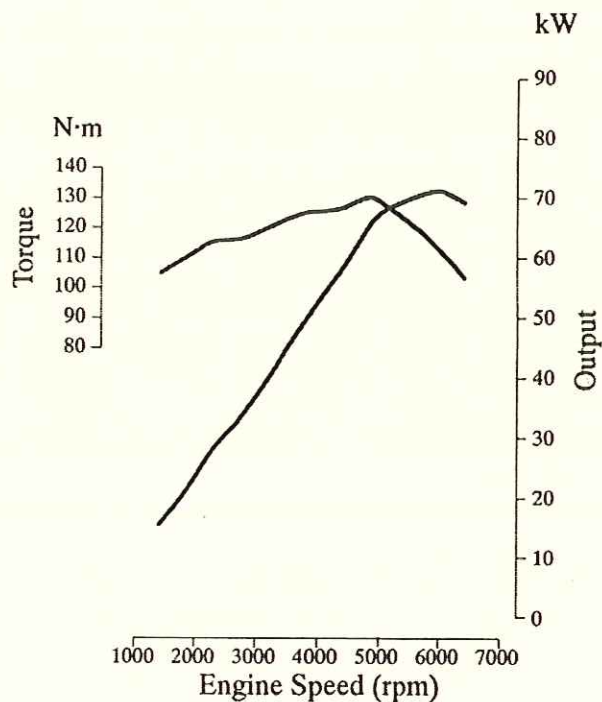


Inside the new Corolla, the elegant new trim enhances the sophisticated feel of the car and the dashboard has been redesigned to accommodate a high-level multi-function display. This also incorporates the optional navigation system, when fitted.

### Powerful new VVT-i engines

The new engine range forms the technical heart of new Corolla. Petrol engine versions are equipped with either 1.4-litre or 1.6-litre VVT-i units, offering smooth performance with outstanding driving characteristics and economy. In addition to the VVT-i the engines also benefit from Toyota Direct Ignition and a new, plastic intake manifold, which reduces, weight and heat transfer.

The 1.4-litre petrol engine develops 95bhp (71kW) of power at 6,000rpm - around 13% better than the average competitor in the sector - and maximum torque of 96lb ft (130Nm) at 4,800rpm. Thanks to its VVT-i technology, torque output is virtually constant throughout the usable engine range and more than 81lb ft (110Nm) is available between 2,000rpm to 6,000rpm.

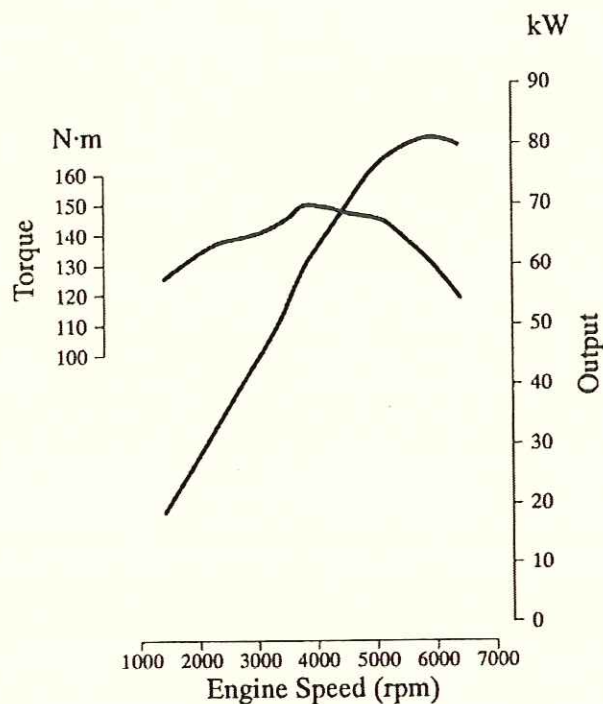


**4ZZ-FE Engine**

The result is a Corolla that performs better than any comparable car in the class and is a joy to drive. Maximum speed is 115mph (185 km/h) and acceleration to 62mph (100 km/h) takes 11.8 seconds. But none of this performance is achieved at the cost of fuel consumption. On the EC combined cycle the 1.4-litre Corolla 3-door hatchback achieves 41.5mpg (6.8 litres/100km) (5M/T).



The 1.6-litre petrol engine develops 109bhp (81kW) at 6,000rpm - around 6% better than class average rivals – with 110lb ft (150Nm) of torque at 3,800rpm. More than 96lb ft (130 Nm) of torque is available from 2,000rpm to 6,000rpm.



**3ZZ-FE Engine**

The 1.6-litre Corolla has a top speed of 121mph (195km/h) and will accelerate to 62mph (100km/h) in 9.8 seconds (SR model with 6M/T). Fuel consumption on the combined European cycle is a thrifty 40.4mpg (7.0 litres/100km) (5M/T liftback); around 6% better than the class average.

### **Smooth new diesel**

The new 1.9-litre diesel engine for Corolla uses well tried and tested indirect injection technology for smooth power and optimum value for money. It will shortly be joined in the range by a version of Toyota's advanced D-4D, common rail, high-pressure diesel already introduced in the Avensis in November last year.

The 1.9-litre diesel develops 68bhp (51kW) at 4,600rpm and maximum torque of 92lb ft (125Nm) at 2,500rpm, offering effortless pulling power at low engine speeds. The diesel engined Corolla is outstandingly economical with a European combined consumption of 42.8mpg (6.6 l/100km). Performance is entirely adequate with the diesel engined Corolla

achieving a top speed of 102mph (165km/h) and accelerating to 62mph from rest in 15.6 seconds.

### **Improved features**

There are changes under the skin of Corolla too. Body stiffness has been improved with the addition of an extra floor cross member, improving handling and giving extra strength. On Liftback models a suspension brace has been added to the rear suspension.

Anti-lock brakes (fitted as standard from GS grade upwards), are equipped with electronic brake force distribution (EBD) which ensures braking forces are applied in accordance with driving conditions. It means better stability when braking hard under slippery road conditions and also more even braking during cornering.

An engine immobiliser is fitted as standard across the range with a transponder in the ignition key communicating electronically with the engine ECU on petrol engines and the fuel cut-off control on diesels.

In the UK, all new Corollas save the lead-in 'S' derivatives are now fitted with a double door locking security system to ensure even greater anti-theft protection.

### **Low cost of ownership**

New Corolla sells in a segment of the market where low running costs are a critical factor in customer choice. Corolla has regularly topped JD Power reliability surveys across Europe and is widely regarded as one of the most reliable, re-assuring and robust cars in the world. Indeed, Corolla won four consecutive BBC *Top Gear*/JD Power Customer Satisfaction Surveys from 1994-1997 inclusive.

The new Corolla will be sold with Toyota's unique pan-European warranty and servicing package including three years or 60,000 miles mechanical warranty, a 12 year corrosion perforation warranty and a 20,000 mile major service schedule which includes interim 10,000 mile or one year Health and Safety checks. This check includes an oil and oil filter change. Paintwork is also guaranteed against imperfections for three years. One year's Toyota Eurocare cover is also included offering breakdown service and accident management across 30 European countries.

### 3 BUILDING ON COROLLA'S SUCCESS

- Extra appeal to family buyers
- Elegant, strong new look
- Multi-function display panel
- Generous equipment levels
- Optional turn-by-turn satellite navigation

Corolla has been a massive worldwide success story for Toyota and the latest version of the car can only build on that reputation. The Corolla range is already the best selling car in the world and the present generation, with its distinctive styling, has proved to be a winner for Toyota across Europe.

Sales in 1998, following the introduction of the present eighth generation Corolla in June 1997, were 27 per cent up on the previous year and Corolla has continued to perform well during 1999, despite intense activity from high volume rivals in a competitive market segment.

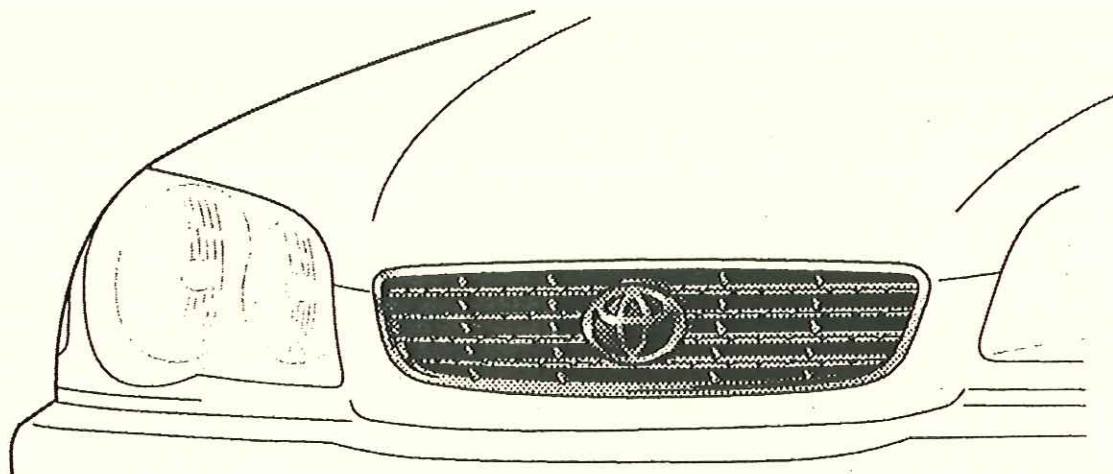
New Corolla, with its fresh face and strong, advanced technology engine line-up, will increase the model's appeal still further - particularly to family buyers who will appreciate the versatile body styles, high equipment levels and value-for-money package. This is expected to be a strong conquest area for new Corolla.

In the younger market sectors, Corolla's striking three-door hatchback has strong visual appeal. Once again, the advanced technology of new Corolla, combined with a strong value-for-money package, will lead to increased sales.

#### **Strong family look**

There is a completely fresh face to new Corolla. A more rounded look has been created with a reshaped front bumper and the radiator grille has been enlarged to emphasise power. The front of new Corolla has a solid, strong yet dynamic and purposeful look. The familiar Toyota symbol is prominently displayed.





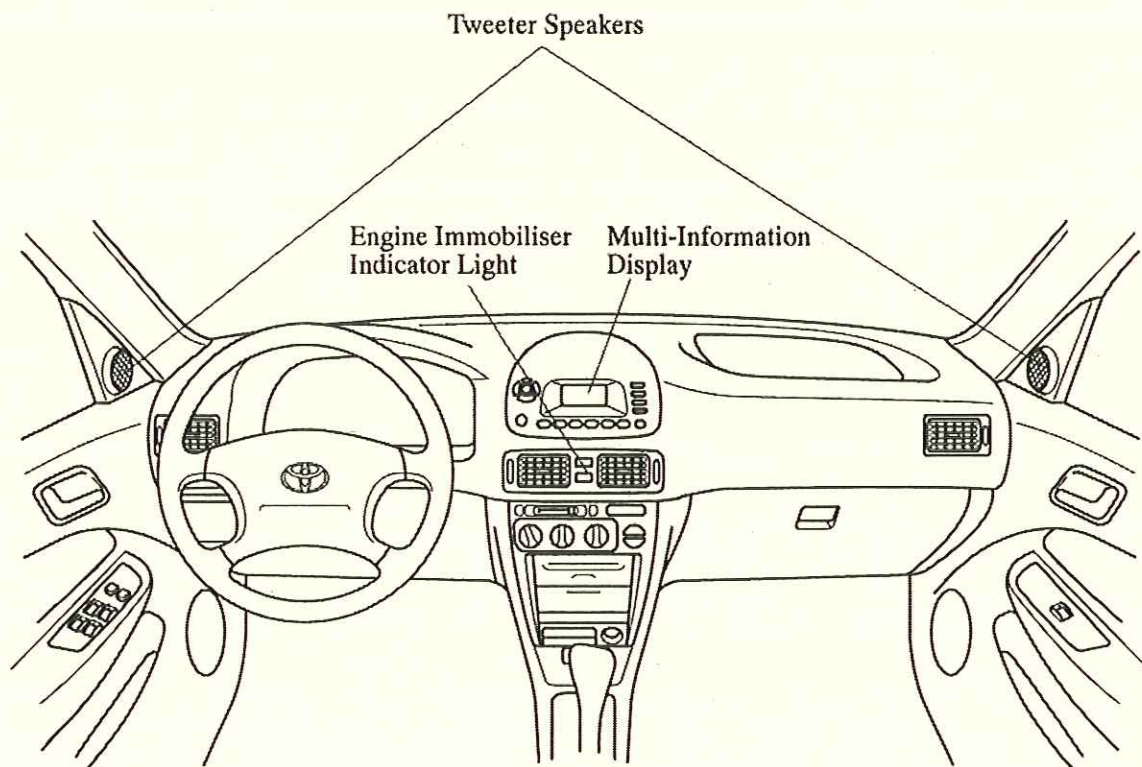
**New Corolla S/GS and GLS grille**

A dominant feature of the new styling is the four individual headlights with multi-reflector surface and prominent side-turn indicators.

#### **Interior features**

There are detail styling changes inside the car too. Chrome badging on the steering wheel (a 3-spoke leather-trimmed wheel on the SR) and chromed interior door handles add to the quality feel. In keeping with the advanced technology, sporty image the instrumentation is colour illuminated.

The multi-function display panel forms the upper central section of the console and operates both as an audio head unit and information display. Typical information includes time and temperature display, radio tuning frequency and cassette or CD operation status. Petrol engined models also have an on-board fuel and trip computer which displays average fuel consumption, instant fuel consumption and average vehicle speed.



### **New look integrated fascia**

#### **Generous equipment levels**

Equipment levels on new Corolla are generous across the range and make it one of the best equipped cars in the segment. Items such as dual airbags, central locking, power assisted steering and an engine immobiliser are standard on all UK derivatives. The Corolla's new dashboard integrated multi information display also features on all models. Remote central locking with a security double door locking system, air conditioning, anti-lock brakes with electronic brake force distribution and electric front windows and door mirrors are standard on all but the lead-in 'S' models in the range.

The three door, six-speed SR sports model features a three-spoke leather steering wheel with red stitching, as well as a leather/alloy gearshift knob, alloy wheels and rear disc brakes with anti-lock and electronic brake force distribution.

The SR is also marked out from the range with a fresh new front design including mesh grille, rear body-coloured spoiler and a new front spoiler.

### **Satellite navigation**

New Corolla is one of the first cars in the segment to offer an advanced technology satellite navigation system as an optional fitment. Developed by Toyota, and first fitted to Yaris, Corolla's similar turn-by-turn navigation system is precise and easy to use, with voice and display guidance throughout the route. Placed at the top of the centre console, the Corolla navigation system is highly visible and safe to use.

Unlike simple Turn-by-Turn (TBT) systems offered by other cars in the segment, the new Corolla shows accurate displays of road intersections combined with road sign information to avoid any confusion at multiple junctions. Routes can be planned with 'way-points' or selected by user preference, such as avoiding motorways, avoiding toll roads or taking the shortest route.

The voice guidance system is extremely responsive and features many different messages for clarity and simplicity. Rerouting, in the event of an accident or a change of plan, is quick and accurate.



## 4 TWO ALL-NEW ADVANCED TECHNOLOGY PETROL ENGINES

- Low fuel consumption, low emissions, high performance
- New 1.4 and 1.6-litre units with VVT-i
- Low to mid-range torque boost for superb driveability
- Toyota Direct Ignition
- Low service and ownership costs

The new Corolla is further evidence of Toyota's commitment to the introduction of the sophisticated Variable Valve Timing - intelligent (VVT-i) technology across the whole Toyota range.

Originally developed by Toyota for executive cars, the VVT-i system uses advanced computer control of engine valve timing to create constantly variable valve overlap. The result is higher torque output across all engine speeds, better fuel consumption and lower harmful emissions.

Toyota cars equipped with VVT-i are more flexible and easier to drive, offer better performance, use less fuel and emit less carbon dioxide, less nitrous oxides and less hydrocarbons.

The importance of the new technology was recognised when the original Toyota Yaris 1.0-litre VVT-i engine was named 'International Engine of the Year 1999' by *Engine Technology International* magazine last year. After Yaris and Celica, Corolla is now the third Toyota model to display the new VVT-i (Variable Valve Timing-intelligent) hi-tech engine.

### **What VVT-i does**

Variable Valve Timing-intelligent (VVT-i) varies the air intake valve open and close timing according to driving conditions and engine loading.

By varying the 'overlap' time between exhaust valve closing and intake valve opening, the engine characteristics can be changed to create optimum burn - resulting in more efficient use of fuel, cleaner exhaust emission and maximum torque output.

The Toyota developed system has the benefit of offering continuously variable (not stepped) timing and allows the engine management computer to specify the optimum timing for the

full range of driving conditions. It means the valve overlap timing no longer has to be fixed in advance to suit a predetermined driving environment.

More complete combustion, at a higher combustion temperature, means less nitrous oxides emissions. An increase in valve overlap, at lower engine speeds, results in some recycling of unburned fuel which reduces unburned hydrocarbons. Both conditions result in better fuel consumption.

### **Powerful 1.4-litre**

The 1.4-litre VVT-i engine in new Corolla is one of the most advanced available in the segment and offers a 13 per cent power advantage over the average competitor in the class.

The 4ZZ-FE engine is a four cylinder, twin overhead camshaft, 16-valve unit with aluminium alloy block. Bore and stroke is 79.0mm x 71.3mm and exact engine capacity is 1398cc.

The compression ratio is 10.5:1 and a tapered-squish piston head improves fuel consumption. Maximum power is 95bhp (71kW) at 6,000rpm and maximum torque is 96 lb ft (130Nm) developed at 4,800 rpm.

The 1.4-litre engine will be available across the new Corolla range and in all three bodystyles. Thanks to its superb torque characteristics and advanced VVT-i technology, fuel consumption is exceptional for an engine of this performance.

### **Smooth, economical 1.6-litre**

The new 1.6-litre VVT-i engine perfectly complements the 1.4, offering more power and torque but equally impressive fuel consumption and excellent driving characteristics.

The 3ZZ-FE engine shares its basic design with the 4ZZ-FE but increased stroke (81.5mm) takes the engine capacity to 1598cc. Maximum power is 109bhp (81kW) at 6,000rpm and maximum torque is boosted to 110 lb ft (150Nm) at 3,800rpm.

In addition to VVT-i, the two engines share many advanced technology features to help ensure high performance and fuel economy; low noise and vibration; low running costs and clean emissions.



### **Toyota Direct Ignition**

Like VVT-i, the Toyota Direct Ignition system was originally developed for executive models but is now being carried over to the whole range. It improves the ignition timing accuracy, reduces high voltage loss and cuts maintenance by eliminating the need for a distributor.

The Direct Ignition system on the new Corolla provides four ignition coils, one for each spark plug. The coils are integrated with the spark plug cap to provide direct contact. Ignition timing is controlled by the engine control unit which takes information from the crankshaft position, the camshaft position and various other relevant engine sensors.

### **Intake manifold design**

The air intake manifold plays a key role in the efficiency of the new Corolla engines. It is made of plastic, in order to cut heat transfer from the cylinder head and reduce air intake temperatures.

A resonator in the air intake chamber optimises intake pulsation and improves engine performance in the mid-speed range.

The exhaust manifold is made of stainless steel for weight reduction and the rearward routing of the pipe, along with a short front pipe ensures rapid warm-up of the three-way catalytic converter for maximum efficiency and reduced emissions.

### **Low emissions fuel system**

A high pressure, returnless fuel system has been developed to reduce evaporative emissions. With no fuel returning to the main tank from the engine, the internal temperature of the fuel tank remains constant.

### **Choice of transmission**

A five speed manual gearbox with slick, positive action is standard equipment across the new Corolla range.

The sporting SR model features a six speed manual gearbox with five close ratios for optimum performance. The sixth gear is a longer ratio for relaxed cruising and maximum economy.

There is an automatic gearbox option on 1.6-litre VVT-i petrol engined models. The gearbox is electronically controlled for smooth shift characteristics under all driving conditions.



## **5 SMOOTH, ECONOMICAL DIESEL**

- New 1.9-litre diesel in Corolla
- Outstanding economy and performance
- Low noise and reduced emissions
- Advanced technology, common rail diesel available shortly

To complement the advanced technology, petrol VVT-i engines new Corolla is fitted from launch with a highly efficient 1.9-litre diesel offering outstanding economy and value for money. The engine is available in the liftback and estate bodystyles in the UK.

The 1WZ engine is a compact and lightweight four cylinder, 1867cc unit with single overhead camshaft. It uses well proven and highly reliable indirect injection technology, refined and developed by Toyota for low noise and vibration, low running costs and low emissions.

The diesel engine develops 68bhp (51kW) at 4,600rpm and has maximum torque of 92 lb ft (125Nm) at 2,500rpm. Fuel economy is 42.8mpg (6.6 l/100km) on the EU combined cycle.

With its high torque output the diesel engine is ideally suited to European driving conditions and flexible driver appeal. Maximum speed for the diesel Corolla is 102mph (165km/h). Acceleration from rest to 62mph (100km/h) takes 15.6 seconds.

### **Reduced emissions**

The very latest computer controls and advanced technology have been used to reduce emissions for the Corolla diesel engine. The exhaust gas recirculation (EGR) system controls and recirculates an appropriate amount of exhaust gas into the combustion chamber in accordance with the engine condition. This results in slower combustion rate, lower combustion temperature and reduced NOx emissions.

The shape of the pre-combustion chamber has been optimised and new Corolla diesel is fitted, as standard, with an oxidation catalytic converter to further reduce exhaust emissions.

### **Intake manifold**

As on the petrol engines, the carefully designed intake manifold has been made out of plastic to reduce weight and lessen heat transfer. A long port intake is used to further improve performance in the low to mid-speed engine range.

**Precise fuel timing**

The fuel injection timing is electronically controlled to ensure maximum efficiency and precision. The diesel engine is fitted with a fuel cut-off immobiliser which responds to the correct identification code from the ignition key.

**High power, direct injection diesel - D-4D**

New Corolla will be available shortly after launch with the recently developed Toyota D-4D diesel, the most technically advanced available on the market today.

The high pressure, common rail diesel injection system brings improved performance, reduced emissions and less noise and vibration. Power and torque, particularly at low engine speeds, are up - giving class leading performance, excellent in-gear acceleration and superb driveability.

Fuel consumption remains excellent. The new engine consumes around 12% less fuel than earlier diesel engines and can be up to 44% more fuel efficient than similar performing petrol engines.

Potentially harmful emissions are reduced, thanks to the improved fuel consumption and more efficient combustion of the direct injection engine.