

# accord



S A L O O N



**HONDA**



Throughout the world Honda has achieved a high degree of customer loyalty by adhering to a corporate philosophy of progress with distinction. These simple words separate Honda from the 'average' car manufacturer.

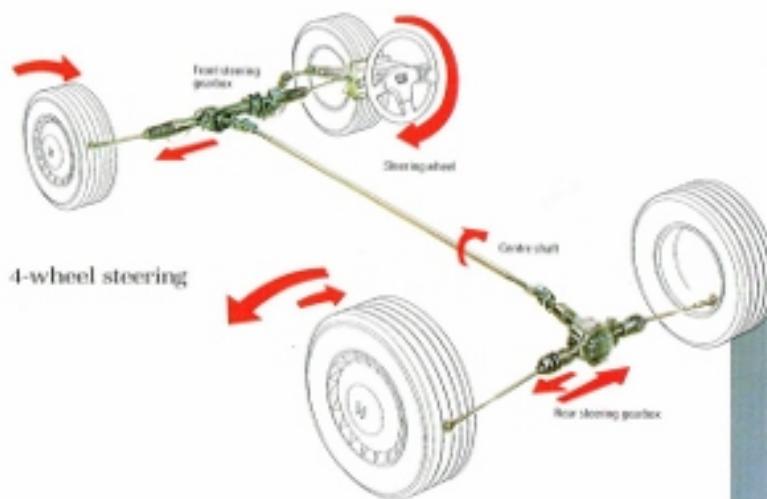
**Success breeds success.**

In fact the company's ability to produce luxuriously appointed performance cars comes as a direct result of their success on the Formula One Grand Prix circuit. From Monaco to Silverstone, Monza to Adelaide - Formula One is the testing ground for new technology. And in the past few years the company's success in this arena has been phenomenal. Since 1986

Honda has powered all the constructors' champions.

Now this race-proven technology is inspiring the latest generation of Honda cars - Like the elegant Accord.

Every car in the Honda range comes complete with three different warranties. There's a 2 Year Unlimited Mileage Warranty covering the major mechanical components, a 3 Year Surface Corrosion Warranty for the exterior paintwork, and a 6 Year Rust Through Corrosion Warranty which covers you in the unlikely event of any corrosion rusting through from the inside of the body work to the outside. (Your dealer will give you a detailed explanation of the full conditions.)



**Trade Descriptions Act (1968)**

Whilst efforts are made to ensure specifications accuracy, brochures are prepared and printed several months in advance of distribution and consequently cannot always immediately reflect either changes in specifications or in some isolated cases the provision of a particular feature. Customers are always advised to discuss specification details with their supplying dealer especially if your model selection is dependent upon one of the features advertised.



### **State-of-the-art technology**

Most cars make do with 8 valves. Honda use either 12, 16 valve or, in the case of the Legend Saloon and Coupe, a 24-valve engine. Together with the computer controlled Programmed Fuel Injection (PGM-FI), this greatly improves the performance and fuel efficiency.

Honda's 4-Wheel Anti-lock Braking provides a higher degree of vehicle control, while the innovative Double-Wishbone Suspension improves both road holding and ride comfort. The 4-Wheel steering system represents a great advance in stability, manoeuvrability and handling ability.

### **Ready To Serve You**

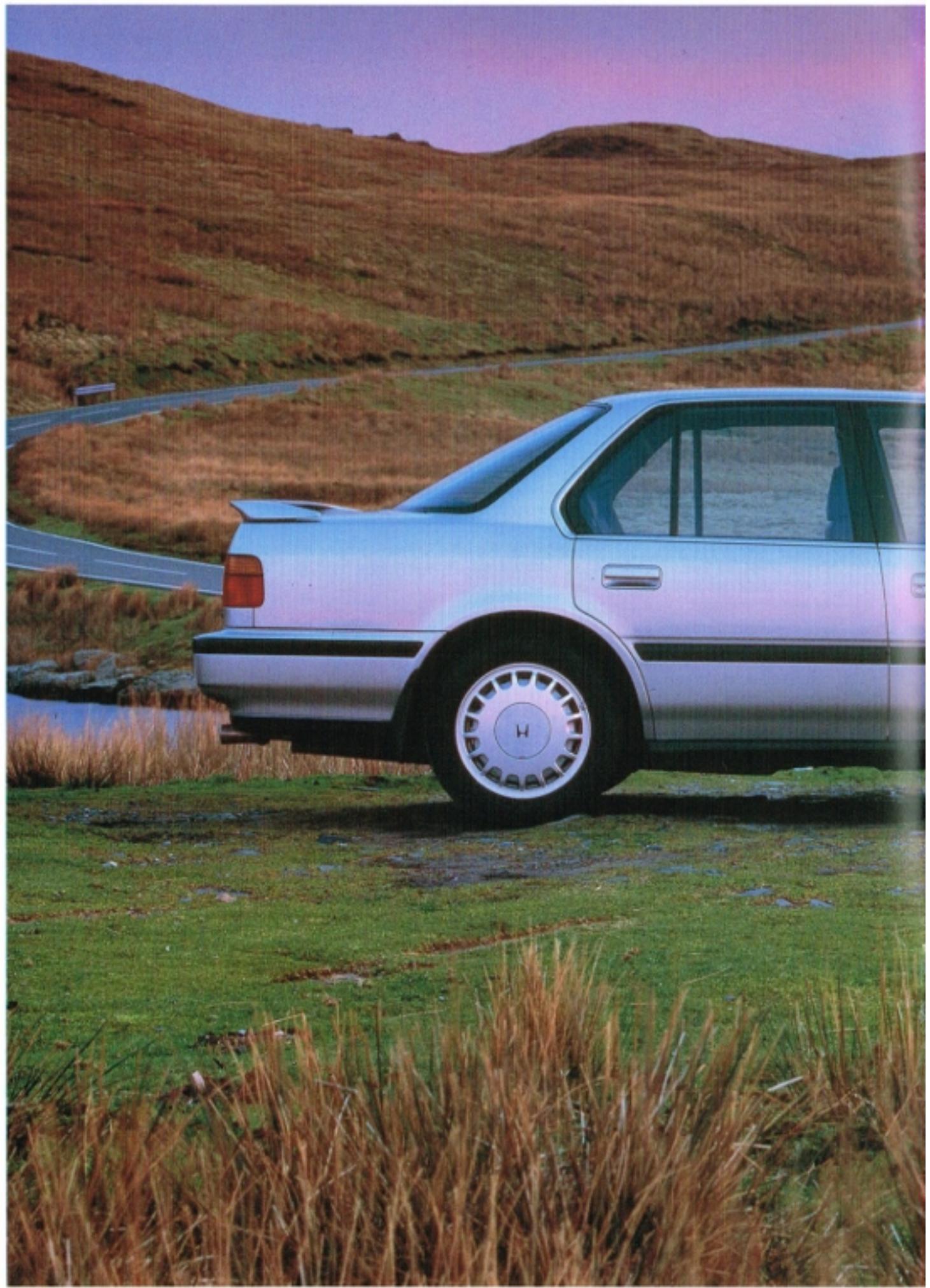
All Honda cars are built to the highest standard. Likewise our nationwide network of Honda Dealerships take great pride in providing similar standards of customer service.

This service starts with PRIDE - Prestige Introduction And Delivery. Through PRIDE your Honda dealer will

ensure that you're thoroughly familiar with all the controls of your new car, that you understand the level of cover provided by the three warranties, and the range of services offered by the dealership. You will even get a tour of the facilities and an introduction to the people who will maintain your car in the years ahead.

At Honda, pride is all part of our service.





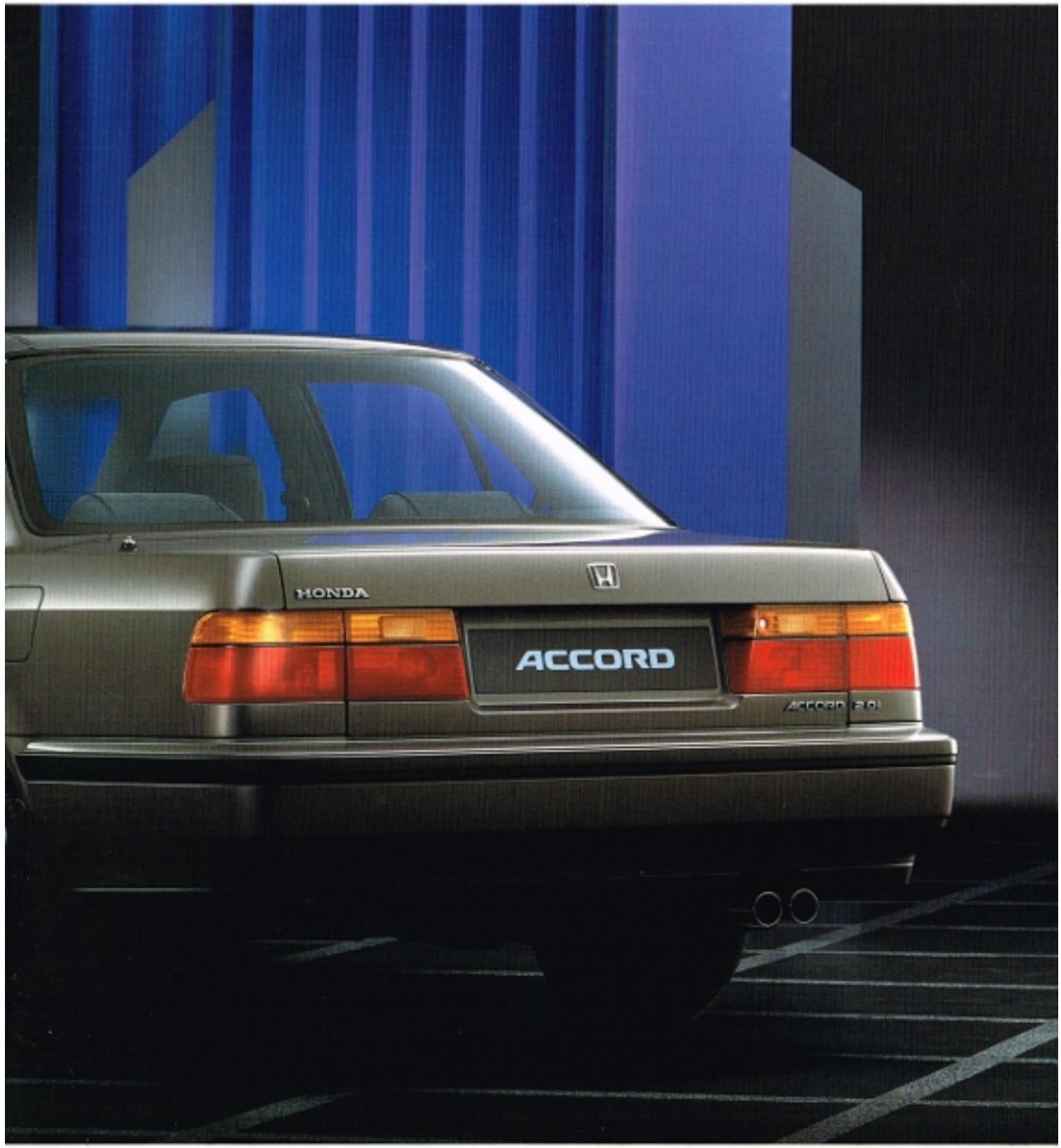


## ■ The Accord



An elegant design. A spacious interior. Dynamic performance, and a luxurious ride. That's the Honda Accord. And when you drive it you'll quickly appreciate its quality, for Honda have developed a car that is refined in every sense. From the elegant curves of the exterior, to the sumptuous interior, the Accord is designed to appeal. There's an air of spaciousness, fine finishing touches and quality engineering. All created with your desires in mind. And once you've experienced the stylish exterior, you'll soon

want to feel the thrill of its new generation engine as it powers you along effortlessly, smoothly, quietly. All in all, we believe the most powerful sensation you'll feel in the new Accord will be one of satisfaction.



## ■ The Interior Luxury



Slip into the driver's seat of the Accord and you'll instantly feel at ease. Set into the smooth curves of the sculpted dashboard is the instrument panel giving all the initial information you'll need on large, stable analogue displays for at-a-glance reading. You'll find that all the important controls are positioned within easy reach.

All Accord models have variable-assistance power steering as standard. The amount of power assist is controlled according to the vehicle's speed, so steering is uniformly responsive at

lower and higher speeds. The front seats are fully adjustable as well. And both the 2.0i and 2.2i have power adjustable driver seats for maximum comfort and easier adjustment.



## ■ The Quality



Honda has a reputation for quality, earned from years of experience, not only on roads around the world - like America where the Accord is consistently the best selling car - but on the Grand Prix circuits with Honda engines powering the Constructor's Champions since 1986.

This reputation continues with the Accord, a car "What car" called 'the most refined car in its class'. Like all Honda's, the Accord is quality assured, not once, but three times. Once at the point of manufacture, once at our own purpose built UK,

inspection plant at Swindon and finally, prior to delivery to you.



## ■ The Engine Technology

In creating the Accord, Honda used all of its expertise to achieve a quiet revolution in engine design. Using computer aided design and engineering (CAD/CAE) techniques, Honda simulated how every part should function and produced a total engine management system.

### A choice of power plants

Honda gives you a superb choice of race inspired SOHC (single overhead cam) engines that includes a high performance 2.2 litre engine equipped with Honda's PGM-



The Accord's die-cast aluminium alloy engine block and cylinder head ensure the strength and light weight that enhance driving performance.

F1 (fuel injection) system and a highly responsive 2.0 litre engine with PGM-F1 or 2.0 litre engine with carburation.

All Accord engines are made of high strength lightweight aluminium. Whichever engine you select you can be sure it will deliver strong performance with high efficiency.

### Four-valve/cylinder SOHC engine

The advantages of the four-valve-per-cylinder engine design are well known. High power output, rapid response, reliability. Now, Honda brings these benefits to the Accord in an effective 16-valve configuration. Every cylinder has two intake valves (each 34mm in diameter) and two slightly smaller exhaust valves (each 29mm) for maximum intake/exhaust efficiency. Greater power, torque and response are also achieved through a larger cylinder bore. The whole performance is optimally controlled through electronic engine management.

### Secondary Balancer Shafts

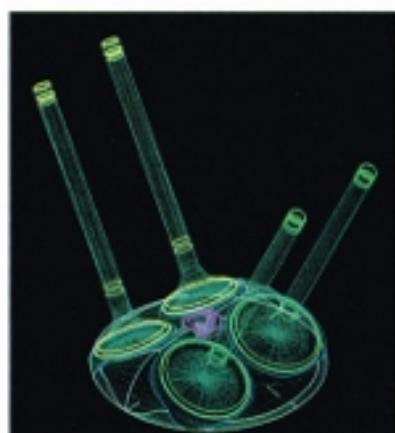
The Accord's lightweight aluminium engine block incorporates two secondary balancer shafts which reduce engine vibration, especially in the mid to high RPMs. These shafts rotate in opposite

directions and at twice the speed of the crankshaft to counteract the vibrational forces of the normal 4 cylinder engine.

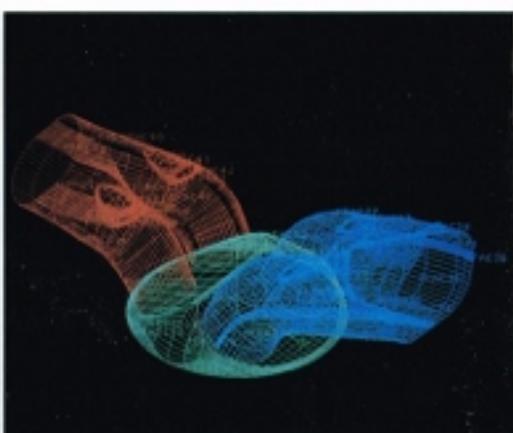
And on Accord models with automatic transmission an electronically controlled hydraulic engine mount reduces vibration at lower RPMs.

### PGM-F1 (Programmed Fuel Injection)

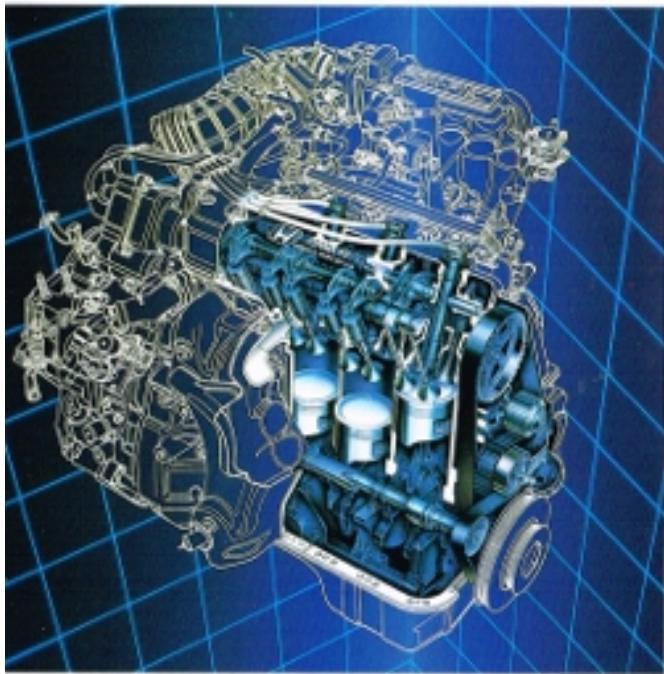
Honda's PGM-F1 fuel injection system was inspired by success on the formula one grand prix circuit. The system uses a microprocessor and sensors to both optimise injection timing and calibrate the precise fuel/air mixture. As part of Honda's total engine management system, PGM-F1 monitors the engine load, throttle opening, exhaust content and a range of other factors.



Like the valves and combustion chambers here, every Accord engine part is computer designed and tested.



The crossflow intake/exhaust of the four valve port on an engine cylinder is computer simulated and analysed for maximum airflow efficiency.



*The Accord's lightweight 16-valve, SOHC engine design, with its free breathing four-valve-per-cylinder configuration is a model of performance and quiet efficiency.*

*Honda's PGM-FI system employs sensors and microprocessor control to optimize engine output through precise adjustments of the fuel/air mixture and injection timing.*

## PGM-FI



As a result maximum power output is improved.

The Accord houses Honda's electronic PGM-IG (programmed ignition control) system which combines with PGM-FI to deliver a spark to each cylinder with optimum timing. So combustion efficiency is maximised for

greater engine performance and enhanced fuel economy.

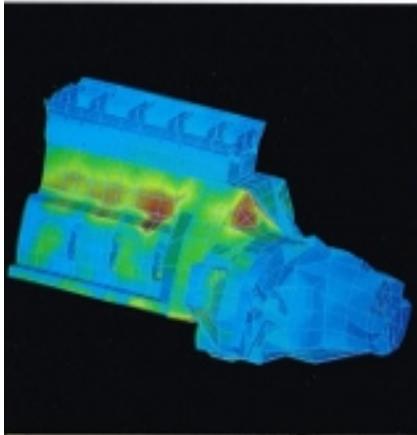
## Variable dual-intake manifold

For performance at varying engine speeds, the Accord 2.2i and 2.0i have a variable dual-intake manifold. So at lower RPMs, only the primary port is

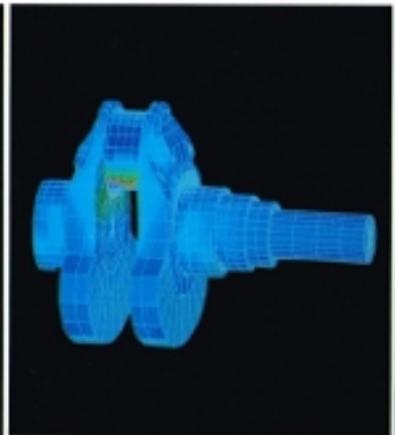
open optimising airflow for maximum low end torque. Whilst at high RPMs, a secondary port opens, permitting a greater volume of air to freely reach the cylinders.

Similarly, a 4-2-1-2 exhaust manifold system with double-wall stainless steel piping improves engine output on the 2.2i. On all Accord models, a variable air intake duct reduces air flow noise at lower RPMs, whilst maximising air flow at higher speeds for better top end performance.

All 1991 Accord's have a catalytic converter as part of the power train system as standard.



*Engine and transmission are computer analysed for strength under simulated high speed operation.*



*Crankshaft movements are analysed for component integrity.*



*Two secondary balancer shafts built into the Accord's aluminium engine block reduce vibration and noise created by engine rotation at mid to high RPMs.*

## ■ The Steering Technology

Honda's revolutionary four wheel steering system brought the rear wheels into the steering picture, improving handling response at motorway speeds and greatly increasing manoeuvrability at lower speeds.

Now, Honda has tailored this system for the Accord.

### A reliable mechanical system

It's taken over a decade of intense research and development to create Honda's 4WS. We looked at electronic and non electronic systems - but



eventually found a mechanical one could be as effective. In fact the system is surprisingly simple, given the sophisticated performance it delivers.

Put simply it consists of front steering gearbox, a rear steering gearbox, and a centre shaft linking the two. Although normal rack and pinion steering controls the front wheels, Honda engineers mesh the rack with an output pinion that transmits

steering input directly to the rear gearbox via the centre shaft. The key to this system is the rear steering gearbox. A unique double-eccentric gear mechanism drives a stroke rod laterally, in effect converting each turn of the steering wheel into the optimum steer angle - and direction - for the rear wheels.

### Steer-angle dependent 4WS

The Accord's 4WS system is a 'steer-angle dependent' system. So however far you turn the steering wheel determines how much, and which way, the rear wheels turn. In practical terms, Honda's system takes advantage of the fact that gentle high speed turns require relatively small movements of the steering wheel, while sharper turns at lower speeds require larger movements. For example, when making a lane change at motorway speeds, the front and rear wheels are steered

in the same direction. As a result lane changes at higher speeds can be made more smoothly with less body sway. When turning at lower speeds, the steering wheel is turned much more. This causes the rear wheels to turn slightly in the opposite direction of the front wheels, so you can make tighter turns more easily.

*The Accord's steer-angle dependent four-wheel steering system permits smoother, tighter turns.*

*The system works by a unique rear gearbox that transmits motion from the front steering gearbox through a double-eccentric shaft (1). With the help of the internal gear (2) and slider (3), shaft rotation is translated into lateral motion to the rear wheels via the stroke rod (5). The planetary movement of the pinion gear (4) determines whether the rear wheels will turn in the same or the opposite direction as the front wheels depending on the amount of steer.*





## ■ The Detail

Only by using state-of-the-art computer aided design can Honda create the cars of tomorrow. And manufacture them. That's why Honda use some of the most sophisticated CAD/CAE (computer aided design/engineering) techniques available. Likewise a CADAM (computer aided design and manufacturing) system enables Honda to go straight from design to manufacture with an unequalled degree of precision. The result being a car of the highest quality.

### Body matters

For optimum performance, a car's engine and suspension need reliable support. So Honda used CAD/CAE techniques, backed up by extensive testing, to produce the Accord's taut monocoque body.

In designing the

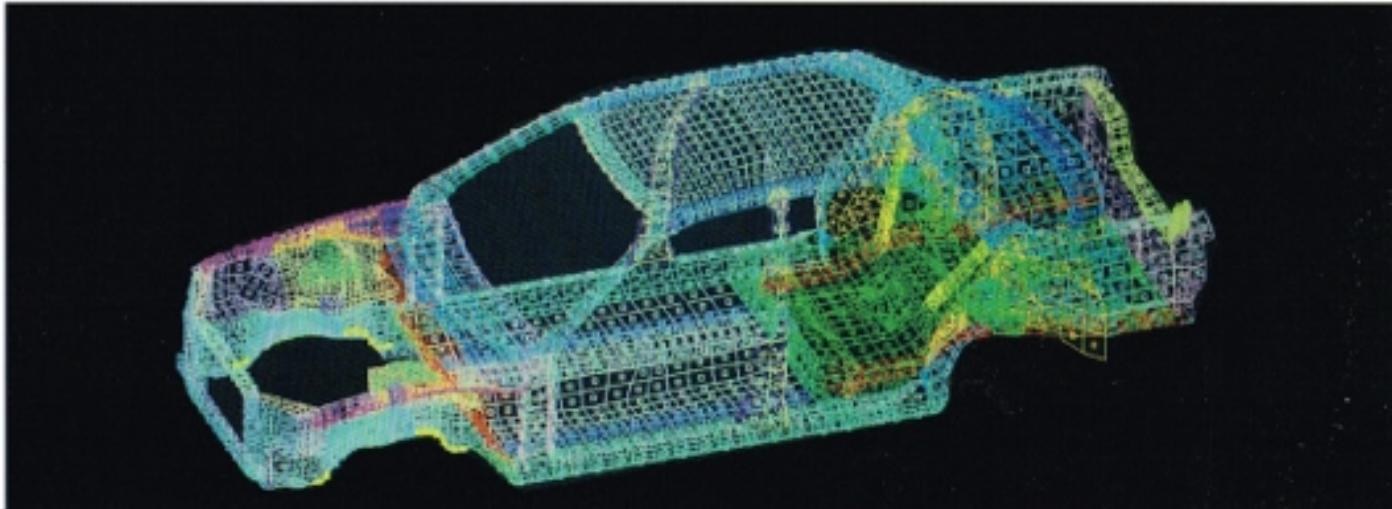
Accord's body, many alternatives were considered. Eventually it was decided to use heavier gauge high-grade steel for the body panels. This gives the car superb resistance to stress. Overall rigidity is increased by reinforcing collars within hollow beams, while a box side-sill construction increases the car's body strength without excessive weight.

This type of body engineering has helped Honda manufacture a car with superior road performance, smooth ride, comfort and drastically reduced interior noise.

### Corrosion resistance

To ensure continued protection against the elements and corrosion we've chosen a combination of materials to protect your car. To us the choice of material is always as

important as the car's design. The galvanised steel plate that account for 90% of the Accord's



*Intensive analysis of the Accord's monocoque body enable Honda designers and engineers to determine which structural materials were most effective, and how they can be optimally employed.*

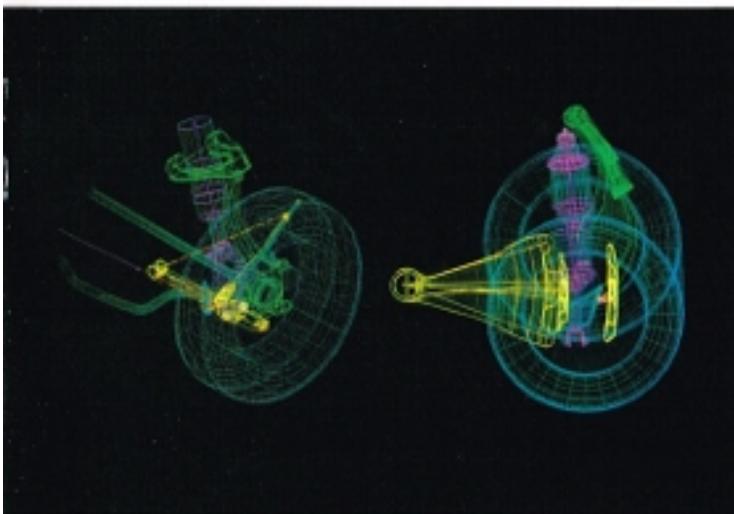
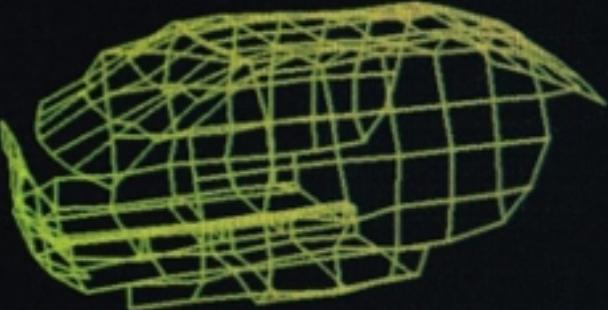
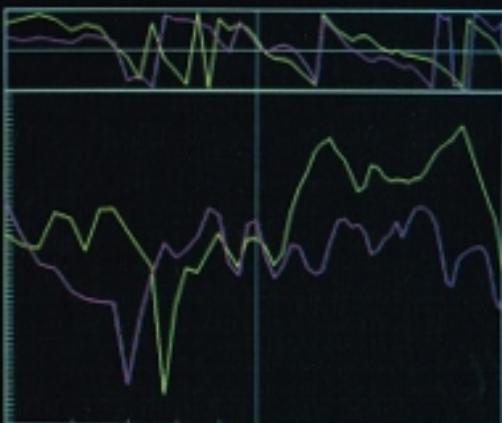
body weight, has been coated by electrolytically adhered zinc and nickel. In other more exposed areas, like the bumpers, wheel housings and side sills, impervious resin materials have been added. In addition, in areas where moisture may collect, like the doors, bonnet, boot lid, wheel housings and side sills, hot anti-corrosion wax is injected. And to protect those areas most prone to chipping from grit, like the bonnet, roof and front pillar, Honda have added anti chip resin coating.

But perhaps the most important element of protection is construction. By integrally sealing and smoothly designing those areas most prone to road exposure, Honda has reduced the risk of corrosion occurring. The Accord is effectively sealed, the underbody and side sills forming a complete whole.

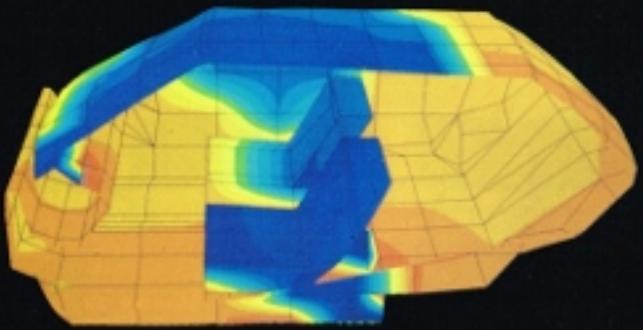
All designed to ensure the Accord's continuing integrity and beauty.

#### Sound engineering

By using the latest techniques in noise reduction, we've created a car that is not only very comfortable, but also extremely quiet. Our engineers have managed to reduce overall noise, vibration and harshness (NVH).



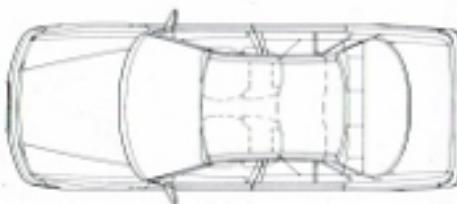
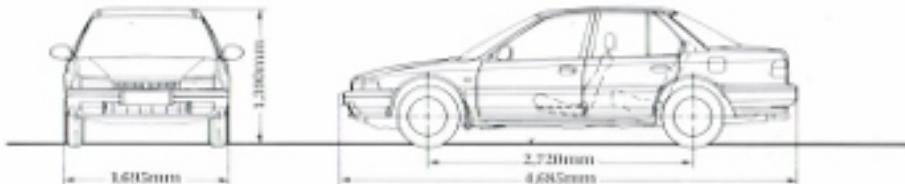
Both the front (left) and rear (right) double-wishbone suspension were designed by computer to fine tune their road responsiveness.



In detailed interior design, HANS pinpoints areas where noise insulation may be added, and ambient sound can be trapped, so the occupants are not disturbed. When designers create the car interior, Honda's Acoustic and Noise Simulation (HANS) lets them control trapping by modifying the graph.

# Specifications

Engine	2.0	2.0i	2.2i	
Type	Water-cooled, 4-stroke SOHC 16-valve in-line 4-cylinder transversely mounted			
Fuel Supply System	Carburetor	PGM-FI	Catalytic converter	
Emission control	Catalytic converter	Catalytic converter	Catalytic converter	
Bore & stroke	85 x 88mm	85 x 88mm	85 x 88mm	
Displacement	1,997 cm <sup>3</sup>	2,066 cm <sup>3</sup>	2,136 cm <sup>3</sup>	
Compression ratio	9.0:1	9.6:1	9.8:1	
Maximum horse power (bhp/min-1)	112@5900	135@5900	138@5900	
Minimum torque	8.5 Min-1	16.0@3400	18.2@3000	
<b>TRANSMISSION</b>				
Clutch	Manual	Dry single plate, diaphragm spring type		
	Automatic	Torque converter with lockup clutch		
Transmission type	Manual	Synchromesh, Five forward speeds, one reverse		
	Automatic	4-speed, one reverse		
Fully electronically controlled 4-speed automatic				
Gear ratios	Manual	Automatic	Manual	Automatic
	1st 3.307	1st 2.705	1st 3.307	1st 2.705
	2nd 1.897	2nd 1.464	2nd 1.899	2nd 1.466
	3rd 1.269	3rd 1.028	3rd 1.210	3rd 1.028
	4th 0.966	4th 0.731	4th 0.913	4th 0.731
	5th 0.787	-	5th 0.975	-
	Reverse 3.000	Reverse 1.904	Reverse 3.000	Reverse 1.904
	Final 4.366	Final 4.285	Final 4.286	Final 4.285
<b>STEERING SYSTEM</b>				
Gear type	Rack and pinion with power assistance			
Overall ratio	16.1			
Turns, lock to lock	3.13			
<b>Brake SYSTEM</b>				
Type	Front	Hydraulic servo-assisted ventilated discs		
	Rear	Hydraulic servo-assisted leading/trailing shoe drum type	Hydraulic servo-assisted discs (with ABS)	
Braking circuit	Diagonal dual circuit			
<b>SUSPENSION SYSTEM</b>				
Front/rear	Independent 4-wheel double wishbone and coil sprung with subframe			
<b>DIMENSIONS</b>				
Overall length	4,685mm			
Overall width	1,695mm			
Overall height	1,390mm			
Wheelbase	2,720mm			
Tread front/rear	1,475/1,480mm			
Ground clearance	160mm			
Curb weight	Manual/auto	1,225/1,250kg	1,225/1,285kg	1,352/1,355kg
Maximum permissible weight	1,740kg			
Turning circle diameter (at body/wheel)	11.6/10.8			
<b>ELECTRICAL SYSTEM</b>				
Battery	12V 60Ah			
Starter motor	1.4kW/1.6kW			
Ignition	Fully electronic unswitched			
Headlights	12V 65/55W			
<b>TYRES</b>				
Wheel size	5 x 14			
Tyre type/size	185/70 R14 86H			
<b>OTHERS</b>				
Fuel tank capacity	65 litres			
Fuel consumption	Manual/Automatic	Manual/Automatic	Manual/Automatic	
Mpg	Urban cycle	24.4/24.42	26.4/25.7	26.1/23.0
	at 56 mph	41.5/41.9	43.5/42.8	43.5/41.5
	at 75 mph	33.2/35.2	34.4/34.4	33.2/33.6



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# Equipment

		2.0	2.0i	2.2i
<b>GENERAL</b>				
Tilt adjustable steering		+	+	+
Front/rear stabiliser		+	+	+
Front ventilated disc brakes	10½ inch	-	+	+
	11 inch	-	-	-
Rear disc brakes		-	+	+
4-wheel anti-lock brakes (ABS)		-	+	+
4-wheel steering (FWS)		-	-	+
Power steering		+	+	+
Cruise control		+	+	+
<b>EXTERIOR</b>				
Halogen headlights		+	+	+
Body coloured bumpers		-	+	+
Front chin-spoiler		-	-	+
Rear boot spoiler		-	+	+
Tinted windscreen and shaded band		+	+	+
Headlight washers		-	+	+
Electric sunroof		-	+	+
Alloy style wheel trims		+	+	+
Aluminium alloy wheel (15 inch)		-	-	+
Door mirror electrically controlled		+	+	+
heated		+	+	+
<b>INTERIOR</b>				
Air conditioning		-	-	+
Seat material		Mosquite	Mosquette	Leather
Power height adjuster (driver's seat)		-	+	+
Powered fully adjustable driver's seat		-	+	+
Adjustable front headrests		+	+	+
Lumbar support (driver's seat)		-	-	+
Front seat back pockets		+	+	+
Rear centre armrest with boot access		-	+	+
Seatbelts	Front	3-point E.L.R. x 2	3-point E.L.R. x 2	3-point E.L.R. x 2
	Rear	3-point E.L.R. x 2 + 2-point manual	3-point E.L.R. x 2 + 2-point manual	3-point E.L.R. x 2 + 2-point manual
Adjustable shoulder anchor point		+	+	+
Sun visors with vanity mirrors on passenger's side		+	+	+
Rear view mirror day-night type		+	+	+
Child proof rear door locks		+	+	+
Door pockets (front both sides)		+	+	+
Remote trunk lid opener (lockable)		+	+	+
Remote fuel lid opener		+	+	+
Electric windows		+	+	+
Central locking		+	+	+
Leather covered steering wheel		+	+	+
Grab rails		+	+	+
Foot rest (driver's side)		+	+	+
Hanger hook		+	+	+
Centre console		+	+	+
Lighted lockable glove box		+	+	+
<b>INSTRUMENTATION</b>				
Tachometer		+	+	+
Automatic transmission mode indicator		+	+	+
Cigar lighter and ashtray		+	+	+
Illumination control		+	+	+
Electric aerial		+	+	+
Digital quartz clock		+	+	+
4 speaker stereo radio cassette		+	+	+
Illuminated ignition switch		+	+	+
<b>ELECTRICAL SYSTEM</b>				
"Head light-on" reminder tone		+	+	+
Rear fog lights		+	+	+
Semi-concealed windscreen wiper (2-speed plus intermittent)		+	+	+
Boot light		-	+	+
Rear mudscreen demister		+	+	+

## Exterior Colours



Phoenix Red - 2.0

Concord Blue Metallic - 2.0, 2.0i

Solaris Silver Metallic - 2.0, 2.0i

Pewter Grey Metallic - 2.0, 2.2i

Charcoal Graphite Metallic - 2.0i



Seattle Silver Metallic - 2.0i

Bordeaux Red Pearl - 2.0i, 2.2i

Buckingham Blue Pearl - 2.2i

**Please note your Accord is designed to run on unleaded petrol without modification.**

The availability of colours contained in this brochure was correct at the date of going to press, June 1991. Honda UK, however, reserve the right to change colours as may be considered necessary. Whilst every endeavour is made to accurately match colours, the limitations of the process involved may mean a slight variation between the samples shown and the actual colour of the vehicle.



## Your Honda Accord Dealer

These specification details do not apply to any particular product which is supplied or offered for sale. The manufacturers reserve the right to vary their specification, including colours, with or without notice and at such times in such manner as they think fit. Major as well as minor changes may be involved. Every effort, however, is made to ensure the accuracy of the particulars contained in this brochure. Consult the Dealer with whom your order is placed for details of the specification of any particular product. This publication shall not constitute in any circumstances whatsoever an offer by the Company to any person. All sales are made by the Distributor or Dealer concerned subject to and with the benefit of the standard Conditions of Sale and Warranty given by the Distributor or Dealer, copies of which may be obtained from him on request. This publicity material applies to the U.K. only.

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