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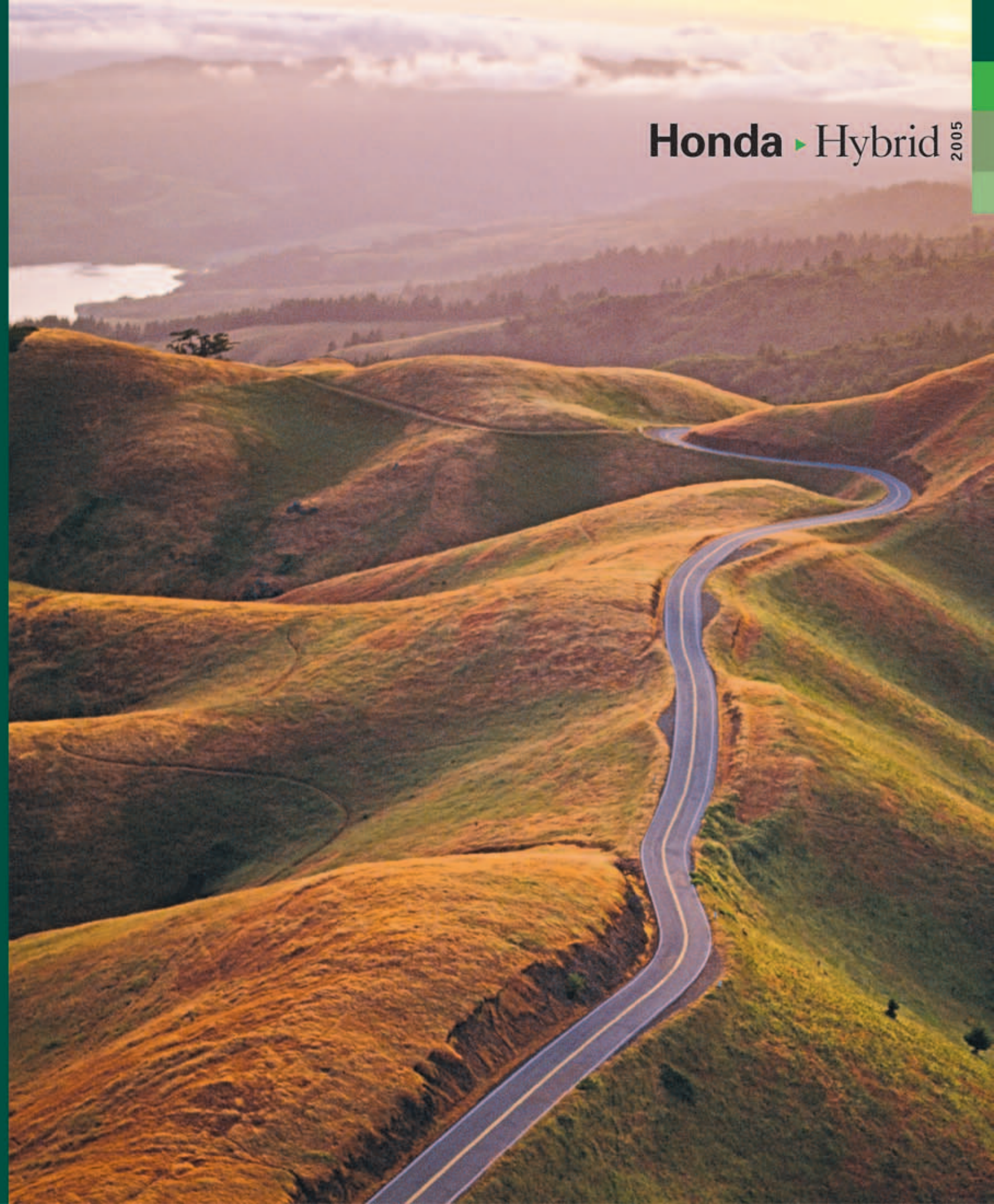
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**Honda** ▶ Hybrid 2005



# Why Hybrid?

Helping to preserve the environment is a core value at Honda. That's why our engineers have created a full line of Hybrid vehicles. These highly innovative, earth-friendly vehicles are equipped with some of the world's most advanced propulsion systems. Honda's Integrated Motor Assist (IMA)<sup>SM</sup> system combines a gasoline engine with a battery-powered electric motor that actually becomes a generator and recharges as you drive. But make no mistake about it, as responsible and ingenious as these breakthrough vehicles are, they offer everything you expect from a Honda — safety, reliability and of course, an exciting driving experience.



## Naturally ingenious.

The IMA<sup>SM</sup> System has an intelligent Power Unit that controls the interaction between engine, motor and battery pack. This sophisticated electronic brain uses such inputs as throttle position, road speed and brake application to determine when to add the electric motor's power to the gasoline engine's output, and when to switch the motor into a generator for recharging the battery pack.



# Accord Hybrid ▶ pure power

Where is it written that you have to sacrifice power and luxury in order to be kind to the environment? The new Accord Hybrid boldly redefines what a hybrid should be. Yes, it gives you ultra-low emissions, long range, and extraordinary fuel economy thanks to Honda's advanced Variable Cylinder Management (VCM™) technology. But check under the hood, and you could be in for a surprise. This hybrid joins a 3.0-litre, i-VTEC™ V6 engine with Honda's Integrated Motor Assist (IMA™) system to make it the most powerful Accord ever. With 255-hp, a full list of luxury amenities, and fun to drive qualities you expect from Honda, the new Accord Hybrid will change the way you think about hybrid vehicles.



U.S. model shown

## ▲ All systems go.

The driver-focused Accord Hybrid gives you a unique electronic instrument display that provides a wealth of vital information, including the distance the car has travelled, current and cumulative fuel economy, electrical energy capacity, and state-of-charge.

255-hp, 3.0-litre i-VTEC™ V6 engine with Integrated Motor Assist (IMA™)

Compact 5-speed automatic transmission

Front double-wishbone, rear multi-link suspension

Leather interior



Accord Hybrid shown in Silver Frost Metallic.

1.3-litre, 4-cylinder i-DSI engine

Continuously Variable Transmission (CVT)

1.0-litre, 3-cylinder VTEC-E™ engine

Unique electronic instrument display



## Civic Hybrid

The Civic Hybrid is driving proof that you can have a car that's easy on your fuel bill, easier on the environment and still be packed with plenty of features that you wouldn't expect in a hybrid. In other words, it's just like any other Honda – but even more so. This is a car that accommodates five people in complete comfort and style. And yet its gasoline-electric engine can deliver **extraordinary fuel economy** and low emissions.

Civic Hybrid shown in Shoreline Mist Metallic.



## Insight

As Canada's first gas-electric hybrid, the Insight pioneered an entirely new concept in driving and conservation. But don't be confused by the electric part of the equation — like all of Honda's Hybrid vehicles, **Insight never needs to be plugged in.** Coupling a 1.0-litre, 3-cylinder engine with an electric motor that provides plenty of torque when you need it, Insight is light years beyond conventional cars in that it gives you an unprecedented **1,250 kilometre** range on a single tank of gas. And while it continues to receive accolades from environmental groups, Insight is still a Honda. Which means it's fun to drive, well appointed and stylish. It's really the best of all possible worlds.

Insight shown in Silverstone Metallic.



U.S. model shown.

### ▲ It's a natural.

Civic Hybrid puts you in touch with the environment and the road through its unique electronic instrument display. It also comes with an automatic climate control system featuring air filtration to create the perfect atmosphere inside.



Civic Hybrid interior shown in Ivory Fabric.



U.S. model shown.

### ▲ Here's your reward for being green.

Insight features a unique electronic instrument display, automatic climate control, an AM/FM/CD audio system, plus a host of other convenience items.



Insight shown in Formula Red.

# FAQs ▶ hybrid technology

## What exactly is a hybrid powertrain?

Honda's hybrid technology teams a gasoline engine with the added boost of an integrated electric motor. We call it the Integrated Motor Assist (IMA™) system. The IMA™ of each hybrid determines exactly when to add the electric motor's power to the gasoline engine's output, and when to switch the motor into a generator for recharging the battery pack. That translates into outstanding fuel economy, plus more power and more torque, and less emissions for the environment.

## I never have to plug it in, right?

Nope. Never. Just drive it like you would any car. The electric part of the IMA™ system is completely self-contained and self-sufficient. The powertrain and braking systems recharge the batteries by recapturing kinetic energy when slowing down or braking.

## Is there anything special I have to do?

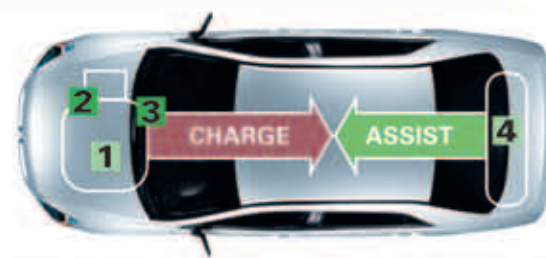
Yes – since driving a hybrid is definitely a special experience. You'll have to stop for gas a whole lot less. You can also drive with confidence in knowing that your battery comes with an 8-year/130,000 kilometre warranty. Beyond that, you'll just have to live with the fact that you're going to have more fun behind the wheel than a socially responsible person is used to. And if your hybrid is in need of any service or repairs, remember to take it to your Honda Dealer for expert hybrid-vehicle service.

**2 Electricity to go.**  
An ultra-thin brushless DC electric motor puts the "hybrid" in every Honda Hybrid. It assists the engine as needed to provide additional horsepower and boost torque output at very low rpm, for immediate response when you really need it. The motor also functions as a generator to recapture kinetic energy and recharge the battery pack automatically.

**3 The transfer of power.**  
The Accord Hybrid comes equipped with a specially designed, lightweight and compact 5-speed automatic transmission that provides a wide range of gear ratios to optimize both efficiency and performance. Civic Hybrid comes standard with a Continuously Variable Transmission (CVT), which gives you seamless power and optimal fuel economy. The 5-speed manual transmission on the Insight provides effective friction-reduction measures, which help it achieve an unprecedented 1,250 kilometres between fill-ups.\*

**4 Charging forward.**  
The high-efficiency nickel-metal hydride (Ni-MH) battery pack and power control modules are integrated into a light, compact unit located in the rear of each hybrid. Rear vents allow the batteries to be cooled by ambient air from the cabin. An 8-year/130,000 kilometre limited warranty also helps provide assurance of long battery life.†

\*See Dealer for latest 2005 EnerGuide published by NRCan when available.  
†Limited battery pack warranty may vary. Consult your Warranty Booklet.



**1 Each Hybrid engine takes a leap beyond** what most people understand about hybrid power. The Accord Hybrid comes with a 3.0-litre V6 engine, and when combined with the IMA™ system, there's 255-hp available for some exhilarating acceleration. This V6 engine also features Honda's advanced Variable Cylinder Management (VCM) technology, which deactivates three of the six cylinders when cruising at a steady pace, for amazing fuel economy and range. The primary source of power for the Civic Hybrid is a 1.3-litre, 4-cylinder engine, while the Insight comes with an energetic and highly efficient 1.0-litre VTEC-E™ (Variable valve Timing and lift Electronic control) powertrain.



Accord Hybrid shown in Nighthawk Black Pearl.

### Starting

Starting the engine in each hybrid is normally accomplished by the Integrated Motor Assist. If the IMA™ battery pack charge is low, a separate 12-volt battery and starter motor are used.

### Acceleration

Acceleration is always strong and responsive as the IMA™ system adds its power to the output of the gasoline engine. The assist indicator shows when the motor is helping out and drawing current from the battery pack.

### Cruising

When maintaining a steady speed, the electric motor stops and the gasoline engine takes care of your propulsion needs. And as the charge indicator shows, the electric motor automatically turns into a generator to begin recharging the batteries as needed.

### Braking

Slow down, and the IMA™ system's electric motor becomes a generator. It recharges the hybrid's batteries by recapturing kinetic energy to convert motion into electrical current that flows back into the battery pack. Here, the indicator will display a state of maximum charging.

### At a stop

Come to a stop, and the idle-stop feature shuts down the gasoline engine to reduce fuel consumption and emissions. Step on the accelerator and both gas and electric power is immediately available for a brisk restart.



When creating our line of Honda Hybrids, our goals were simple: make a vehicle that's fun to drive, one that provides outstanding fuel efficiency, more performance, more economy and makes no compromises. So besides their remarkably sophisticated powertrains, we found other ways to enhance their best qualities. Such as magnesium head covers and intake manifolds to help reduce weight. There's also a unique hybrid air conditioning system available in the Accord that switches to an electric compressor when at a stop, to always keep occupants comfortable. Even the lightweight alloy wheels are specially designed to optimize wind resistance and maximize fuel economy.

# Hybrid specifications

ENGINE	ACCORD	CIVIC	INSIGHT
Type: Aluminum Alloy	V6	In-Line 4-Cylinder	In-Line 3-Cylinder
Displacement (cc)	2997	1339	995
Horsepower @ rpm (SAE net)	240@6000 (255@6000 with Motor Assist)	85@5700 (93@5700 with Motor Assist)	67@5700 (73@5700 with Motor Assist)
Torque (lb.-ft @ rpm)	212@5000 (232@5000 with Motor Assist)	87@3300 (105@3000 with Motor Assist)	66@4800 (79@1500 with Motor Assist)
Compression Ratio	10.5:1	10.8:1	10.8:1
Valve Train: SOHC	24-Valve i-VTEC™	8-Valve	12-Valve VTEC-E™
Fuel System: Programmed Fuel Injection (PGM-FI)	•	•	•
Idle Stop Feature	•	•	•
Variable Cylinder Management (VCM)	•	•	•
Ignition System	Full Transistor High Power	"intelligent" Dual & Sequential Ignition (i-DSI)	Direct Electronic with Immobilizer

ELECTRIC MOTOR / GENERATOR			
Motor Type	DC Brushless	Permanent Magnet	Electric
Power Output	12 kW	10 kW	10 kW
Motor Width (mm)	68	65	60
Rated Voltage	144	144	144

ELECTRIC POWER STORAGE			
Battery Type: Nickel Metal Hydride (Ni-MH)	•	•	•
Output	13.8 kW (120 Cells@1.2V)	144V (120 Cells@1.2V)	144V (120 Cells@1.2V)
Rate Capacity	6.0 AH	6.0 AH	6.5 AH

DRIVE TRAIN			
Type: Front-Wheel Drive	•	•	•
Automatic Transmission: Electronically-Controlled 5-Speed with Lock-up Torque Converter and Grade Logic Control	Compact	•	•
Continuously Variable Transmission (C.V.T.)	•	•	•
Manual Transmission: 5-Speed with Starter-Interlock System	•	•	•
Final Drive Ratio	4.375	5.777	3.208

BODY / SUSPENSION / CHASSIS			
Unit Body Construction	•	•	Aluminum Space Frame
Front Suspension	Independent Double-Wishbone with Coil Springs	Independent Strut with Toe Control-Link	Independent Strut with Coil Springs
Rear Suspension	Multi-Link	Independent Double-Wishbone with Coil Springs	Trailing Arms with Torsion Beam
Stabilizer Bars (mm, front / rear)	25.4 / 14.0	25.4 / 13.0	17.3 / N/A
Steering Type: Power-Assisted Rack-and-Pinion	Electronic	Variable	Electronic
Brakes: Power Assisted Ventilated Front Disc	Rear Solid Disc	Rear Drum	Rear Drum
Wheels	16" Lightweight Alloy	14" Lightweight Alloy	14" Lightweight Alloy
Tires: All-Season Radials	P215/60R16	P185/70R14 Low Rolling Resistance	P165/65R14 Low Rolling Resistance

EXTERIOR / INTERIOR DIMENSIONS			
Wheelbase (mm)	2740	2620	2400
Length (mm)	4813	4455	3938
Width (mm)	1814	1715	1695
Height (mm)	1449	1440	1355
Track - Front / Rear (mm)	1553 / 1554	1470 / 1473	1435 / 1325
Curb Weight (kgs)	1588	1251	853
Front / Rear Dimensions - Headroom (mm)	1026 / 978	1010 / 946	985
- Legroom (mm)	1062 / 935	1072 / 914	1089
- Hiproom (mm)	1387 / 1359	1300 / 1266	1236
Cargo Volume (L)	317	286	140
Total Passenger Volume (L)	2908	2588	1334
Fuel Capacity (L)	64.7	50	40
Fuel Consumption,* City/HWY (L/100km) - M.T.			3.9 / 3.3
- A.T.	7.9 / 5.9		
- C.V.T.		4.9 / 4.6	

\*Fuel consumption (regular unleaded) for comparison purposes only. See Dealer for latest 2005 EnerGuide published by NRCAN when available.

EXTERIOR FEATURES			
Body-Coloured Door Handles	•	•	•
Body-Coloured Door Mirrors, Power Remote	Heated	Heated	•
Body-Coloured Side Body Mouldings	•	•	•
Front Intermittent Wipers	with Variable	with Variable	•
Heat Absorbing & Tinted Glass	•	•	•
Rear Integrated Trunk Spoiler	•	•	•
Rear Window Defroster	•	•	•

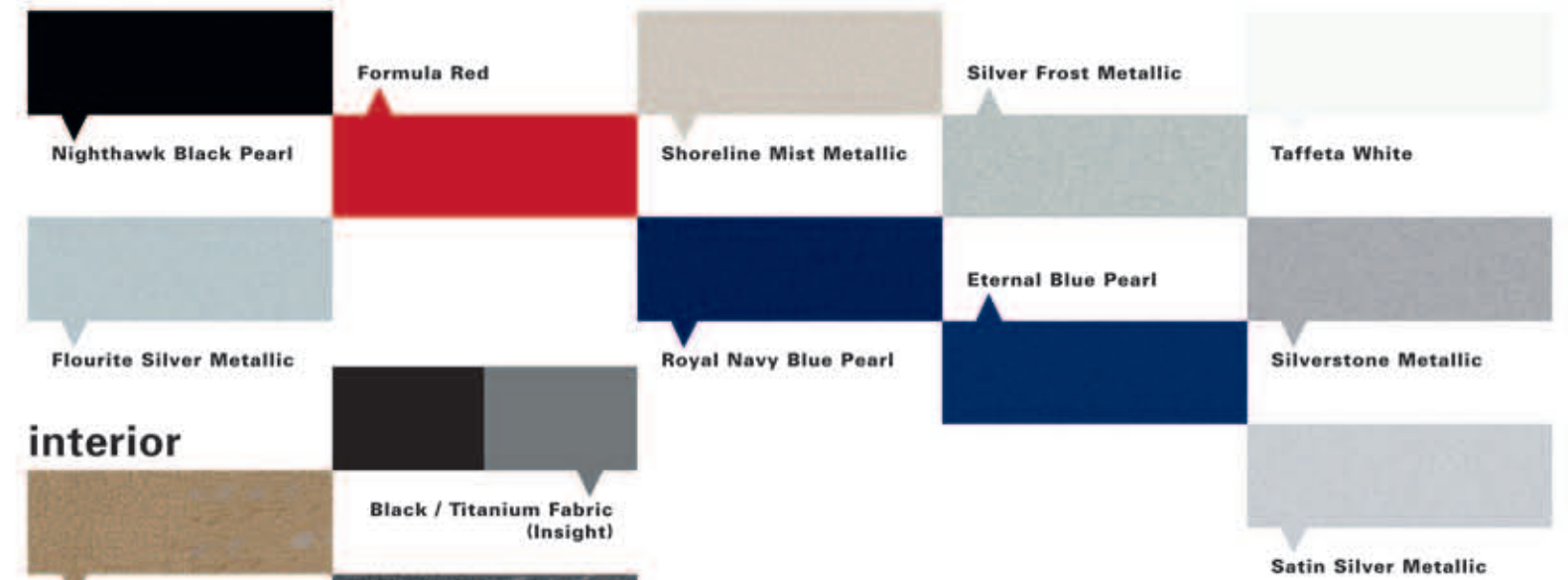
INTERIOR FEATURES			
Air Conditioning (CFC-Free) with Micron Air Filtration	Hybrid Dual Zone	•	•
Auto Climate Control	•	•	•
AM/FM Stereo with CD Player	•	with Audio Anti-Theft	•
AM/FM Stereo with 6-Disc In-Dash CD Changer	with Audio Anti-Theft	•	•
Cruise Control	•	•	•

INTERIOR FEATURES	ACCORD	CIVIC	INSIGHT
Driver's Seat Adjustment	8-Way Power	6-Way Manual	4-Way Manual
Driver's Seat Height Adjustment	Power	•	•
Dual Front Vanity Mirrors	Illuminated	with Cover	•
Front Beverage Holders	•	with Lid	•
HomeLink® Garage Door Opener	•	•	•
Keyless Remote Entry	with Panic Feature	with Panic Feature	•
Low Washer Fluid Warning Light	•	•	•
Maintenance Interval Reminder	•	•	•
Power Door Locks	2-Stage with Anti Lock-Out	•	•
Power Windows	Illuminated Switches	Illuminated Switches	•
Remote Fuel Filler Door Release	•	•	•
Remote Lockable Trunk Release	•	•	•
Speakers	6	4	4

SAFETY			
3-Point Seatbelts in All Seating Positions	•	•	•
8 km/h Impact Absorbing Bumpers	•	•	•
Anti-lock Braking System (ABS)	•	•	•
Child Safety Seat Anchors in Rear Outboard Positions	with LATCH	with LATCH	•
Driver and Front Passenger Airbags (SRS)	Dual-Stage	Dual-Stage	•
Driver and Front Passenger Side Air Bags (SRS) with Occupant Position Detection System (OPDS)	•	•	•
ECU Immobilizer	•	•	•
Electronic Brake Distribution (EBD)	•	•	•
Front Seatbelt Pretensioners	•	•	•
Front Seatbelt Shoulder Height Adjustment	•	•	•
Side Curtain Air Bags	•	•	•
Traction Control System (TCS)	•	•	•

## personality colour and trim

### exterior



### interior

Exterior / Interior Colours	Accord	Civic	Insight
Nighthawk Black Pearl / Black	Leather		
Satin Silver Metallic / Black	Leather		
Silver Frost Metallic / Ivory	Leather		
Taffeta White / Ivory		•	
Flourite Silver Metallic / Grey		•	
Shoreline Mist Metallic / Ivory		•	
Eternal Blue Pearl / Grey		•	
Silverstone Metallic / Black / Titanium			•
Formula Red / Black / Titanium			•
Royal Navy Blue Pearl / Black / Titanium			•