

summer 2006

SIX★STAR

The Magazine for Canadian Subaru Owners



★ 2007 Legacy 2.5GT spec.B

★ Impreza's new look ★ Subaru's safety story ★ create an eco-friendly home

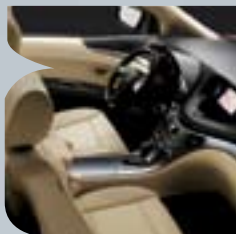
Have you seen the Subaru B9 Tribeca?



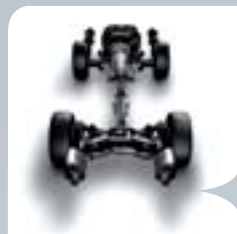
The 2006 Subaru B9 Tribeca doesn't fit into a category – it creates its own. After all, how many crossover utility vehicles have symmetrical full-time All-Wheel Drive and a 250-hp SUBARU BOXER engine? Or for that matter, 64 available seating arrangements that adjust to suit any occasion? Complement this with a sleek, elegantly designed interior and you're left with a vehicle that's unlike anything you've seen before. Unless, of course, this is your second time reading this. For a third look, visit www.subaru.ca.



SUBARU BOXER engine



Elegantly designed interior



Symmetrical full-time AWD



Versatile seating

Think. Feel. Drive.



SUBARU



six star - summer 2006



spec.B

page 22 – When you experience the car, you will know that the “spec” in the 2007 Legacy 2.5GT spec.B really stands for “spectacular.” Inspired by our FIA World Rally Championship cars, this is the sportiest, most exclusive Legacy ever and in this article we’ll open the door and put you into the driver’s seat!



home sweet home

page 24 – A healthy home provides a healthy environment for you, costs less to maintain, and is better for the earth. And, you would be surprised at how easy and how affordable it is to get your home in shape. Learn about what you can do, starting today, that will help you leave a smaller footprint on the earth for tomorrow.



product review

page 17 – Impreza makes a bold statement with its new design, increased power and enhanced safety for 2006.

page 20 – If you are someone who loves to go the extra distance and do it with panache, then you are bound to find a soulmate in either the Legacy 2.5i Special Edition Sedan or Wagon, or the Outback 2.5i Special Edition Wagon.



welcome

page 4 - Meet Katsuhiro Yokoyama, Subaru Canada's new President, Chairman and CEO.

page 14 - Looking for greener vehicles? Check out the Subaru B5-TPH and the Subaru R1e Electric concept cars and other Subaru innovations.

subaru news

page 5 - Accolades, awards, triathlons, rallies, sponsorships and events...this is the place to find out what is happening at Subaru Canada, Inc.

tech talk

page 28 - Synthetic oil is an automotive saviour for our extreme Canadian weather, find out why.

subaru owners

page 30 - After his Outback rolled down the ditch, and he and his wife emerged unscathed, Michael Harrison realized that seven was his lucky number!



technologies

page 10 - Subaru gets top marks across the board for safety. Find out just how well protected you are.

This Subaru Six Star magazine is produced for the enjoyment and reference of Subaru owners and is published by Subaru Canada, Inc. All rights reserved. Contents of this magazine may not be reproduced without the expressed permission of Subaru Canada, Inc. We reserve the right to edit all letters, opinions or articles sent for publication to the Six Star. Subaru, Legacy, Outback, Impreza, Forester and Subaru B9 Tribeca are registered trademarks. Alcantara® is a registered trademark of Alcantara S.p.A., and Alcantara® is produced by Toray group. HomeLink is a registered trademark of Johnson Controls, Inc. “SIRIUS” and the SIRIUS dog logo are trademarks of SIRIUS Satellite Radio Inc. SPORTSHIFT is a registered trademark of Prodrive. XM is a registered trademark of XM Satellite Radio Inc. Printed in Canada.

behind the wheel



Katsuhiro Yokoyama
President, Chairman & CEO
Subaru Canada, Inc.

Place of birth: Tokyo, Japan
Education: University Graduate, Western History Major
Career:
1980-2005: Fuji Heavy Industries (Subaru's Parent Company) - various positions in the areas of purchasing, secretarial office, sales, marketing and promotions
October 1, 2005: Subaru Canada, Inc. Chairman, President & CEO
Hobbies: Golf, skiing, reading, shogi (Japanese Chess)
Favourite colour: Green!

If I were to choose a colour for this edition of *Six Star*, it would most definitely be green! Green is the colour of life. Just think back to how rejuvenated you felt in April and May when everything outdoors seemed to come alive again. Trees and shrubs began to bud, spring flowers popped from the ground, and everything turned beautiful shades of green.

It is no wonder then that green is the colour that inspires our environmental consciousness and it is that concern for the environment that is the prevailing theme throughout this magazine.

You may not realize just how extensively Subaru has embraced the need to protect this planet for future generations, but after reading this edition of *Six Star*, you will realize that we are “green all over.”

On page 14 you will read about the Subaru B5-TPH, which uses a combination of an electric motor and an internal combustion engine, and the purely electric R1e concept car. You will also read about the environmentally friendly enhancements Subaru has already made to a number of vehicles in the 2006 line-up.

Since thinking green does not stop in the driveway, in this issue you will also read how to “green” your home with simple, effective yet inexpensive steps you can take to save money on utilities while helping the earth breathe a bit better. Look for these tips in “Home Sweet Home” on page 24.

You will also read what Subaru is doing to ensure that our manufacturing and business processes are as green as possible and how we are working together with Toyota to colour the world a bit greener for the future on page 7.

And, since this is a Subaru magazine after all, we do need to boast a bit about our newest additions to the Subaru line-up – specifically the 2007 Legacy 2.5GT spec.B, the 2006 Outback 2.5i Special Edition Wagon and Legacy 2.5i Special Edition Sedan and Wagon. And, of course, we must not forget the redesigned Imprezas for 2006. We also want you to know that, across the board, Subaru vehicles are very safe. Read about how we build safety into each and every vehicle, earning Subaru top safety marks (page 10).

There is lots more to read, including how one Dealer has made the most of his career, and how, even though one owner totaled his seventh Subaru, his Outback made the most of his personal safety. Plus, there are tech tips, great accessories and all sorts of information that you will find interesting.

So please, sit back and enjoy. Then, once you are done reading, why not join the movement and get out to see what you can do to make the world a greener place.



an award winning family

You could say that it's an insatiable pursuit of excellence that makes each Subaru unique and rated highly in third party assessments. Or maybe it's Subaru's legendary symmetrical full-time All-Wheel Drive system that provides a balance of driving pleasure and control, on any road, in any weather. It could also be attributed to our high occupant protection safety standards that inspire driver confidence and peace of mind. And, let's not forget the unusually long list of standard features offered on each model. For all these reasons, the 2006 Subaru line-up has received top scores across the board and we couldn't be more proud. ✦



SUBARU BOXER

Best Engine - 2.0 to 2.5-litre DOHC
Forester, Impreza, Legacy, Outback

International Engine of the Year Awards 2006,
UKIP Media & Events Automotive Magazines.



SUBARU **B9 TRIBECA**

5-Star Crash Rating†
★★★★★

National Highway Traffic
Safety Administration's (NHTSA's)
New Car Assessment Program

OUTBACK

5-Star Crash Rating†
★★★★★

National Highway Traffic
Safety Administration's (NHTSA's)
New Car Assessment Program

Best Overall Value
in its class
2.5i
Intellichoice Inc.

IMPREZA

Top Safety Pick
Gold Award†
Sedan & Wagon

Insurance Institute for Highway Safety

Car of the Year
Best Sports Sedan
Under \$40K
WRX Sedan
TSN's Motoring 2006

LEGACY

Top Safety Pick
Gold Award†
Sedan & Wagon

Insurance Institute for Highway Safety

All Star
2005, 2006
Automobile Magazine

FORESTER

Good Rating†
Frontal, Side & Rear

Insurance Institute for Highway Safety

5-Star Crash Rating†
★★★★★
National Highway Traffic
Safety Administration's (NHTSA's)
New Car Assessment Program

Best Small SUV
2004, 2005, 2006
2.5XT
Car and Driver Magazine

For more information go to:

safercar.gov	caranddriver.com	intellichoice.com	motoringtv.com
iihs.org	automobilemag.com	www.ukintpress.com/engineoftheyear	



Results for 2006 Subaru model year vehicles.
†Ratings of "Good" are the highest rating awarded for 40-mph frontal offset, 31-mph side impact and 20-mph rear impact crash tests conducted by the Insurance Institute for Highway Safety (IIHS).
‡ Government star crash ratings are part of the National Highway Traffic Safety Administration's (NHTSA's) New Car Assessment Program (www.safercar.gov). A five-star crash rating is the highest government rating for a) Driver and right front seating positions in frontal crash tests and b) Front and rear seating positions in side-impact crash tests.

2007 Canada Games

In 2007, for the 40th anniversary of the Canada Games, a remarkable achievement will take place. Not only will the Canada Games head north of the 60th Parallel for the first time, but also, in the tradition of friendship, the Yukon, Northwest Territories and Nunavut have joined to make this a Pan Northern celebration. Subaru Canada, as part of its commitment to Canadian athletics, is a proud sponsor.

This multi-sport event is held every two years, alternating between summer and winter. The next one will take place in Whitehorse, Yukon from February 23 to March 10, 2007. Boasting more athletes in more events than the Winter Olympics, the Whitehorse 2007 Canada Winter Games will include an estimated 3,600 athletes, coaches and managers, and over 4,500 volunteers to support the 22 sporting events.

The 2007 Games will showcase Canada's unique north with cultural performances, exhibitions of northern art, and fabulous northern food! There will also be a special competition for Arctic Sports which will include youth from communities across the three territories.

From the slopes of Mount Sima to the warm comforts of the Canada Games Centre, the 2007 Canada Winter Games will bring together Canadians from coast to coast to coast, and Subaru will be there for every minute of it! Visit www.2007canadagames.ca for more information. ✦



The Path to a Dream

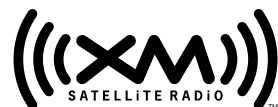
Many of the athletes attending the Canada Games go on to compete in the Olympics thanks to financial assistance like the "Canadian Athletes Now Fund," supported in part by Subaru Canada, Inc. This ongoing support is crucial to sustain the coaching, nutrition, and training needs of athletes on the road to the podium. For more information visit www.canadianathletesnow.com.



audio enhancements for 2007

Change the way you listen to music or your favourite radio programming. New for the 2007 model year, all Subaru B9 Tribeca, Outback and Legacy models are prewired for XM® Satellite Radio and feature a convenient auxiliary audio input jack to connect your portable music player to your vehicle's audio system. Impreza WRX and WRX STI models as well as Forester 2.5XS Premium and 2.5XT are prewired for SIRIUS® Satellite Radio and will also be equipped with an auxiliary audio input jack for unlimited hours of listening on the longest trips.

XM® and SIRIUS® entice Subaru customers further by offering subscription based 100% commercial free music plus news, sports, talk and entertainment programming, broadcasted digitally, 24/7. It's like music to your ears. ✦



all-round customer service

In 1970, on opening day at their new gasoline/service station, two mechanics welcomed their first customer and thanked her for stopping in. One year later, she surprised them with a cake to celebrate their first anniversary. Today, 36 years later, she drives a Subaru and is still a customer of Henri Adm, his brother Edward, and Edward's son Karim at Subaru de Laval in Quebec.

Why are customers so loyal to the Adms? "We love our job and respect our customers," says Henri, "and this sentiment is shared by everyone at Subaru de Laval." Other reasons are product and service. "Since purchasing my first Subaru dealership in 1987, I have remained in awe of Subaru technology," Henri adds.

Henri also believes it just might have something to do with the beautiful new Subaru de Laval premises they moved into in March 2005 after they outgrew their previous facility. Today there is a 35,000 sq. ft. building on four acres of land alongside busy Hwy. 440. Along with a beautiful showroom, there is plenty of space for new vehicles and a used car department that predominantly retails Subaru vehicles. There are also 12 service bays, a six-bay body shop, a paint booth, and a drive-thru service reception.

In the evening, the drive-thru is used to deliver new vehicles. "We explain the features, take a test drive, and then drive back into the drive-thru so that the customer knows exactly what to do when coming in for service," Henri explains. Right down to the fireplace in the customer lounge, the Internet-equipped office for customers, and the children's play area, it is the kind of customer service-oriented thinking that keeps Subaru customers coming back to the Adms. ✦



SUBARU DE LAVAL

1640 Autoroute Laval Est
Laval, Quebec
H7M 5E5

phone: (450) 668-6041

www.laval.subarudealer.ca



Subaru & Toyota – great minds thinking alike

If two heads are better than one, then by partnering the engineering savvy of two great automotive companies – Subaru and Toyota – the resulting "ride" is sure to be innovative, dynamic and altogether fantastic!

Late last year, Subaru's parent company, Fuji Heavy Industries, Ltd. (FHI) dissolved its alliance with General Motors Corp. and GM agreed to sell their 20% stake in FHI. Enter Toyota Motor Corp., which purchased shares in FHI equaling an 8.7% interest in the transportation/aerospace giant.

Subaru and Toyota have long had a lot in common. Besides the fact that we both build automobiles that are of very high quality, both companies have also been dedicated to creating vehicles that will serve global concerns down the road – specifically vehicles that take environmental issues seriously.

At the time Toyota purchased FHI shares, the two automakers agreed to study the possibility of joining forces on research, development and production. Well, great minds think quickly! Not only will the Toyota Camry soon be built at Subaru's Indiana production facility, but the two companies also announced that FHI will help develop Toyota vehicles plus an FHI hybrid vehicle based on the well-known Toyota Hybrid System.

A number of FHI vehicle engineers have already descended upon Toyota's facilities and, together with Toyota engineers, they are hard at work. With these two companies working together, the future not only looks bright, it looks green as well. ✦



2006 triathlon news


It's a new year and another new triathlon season has begun. In fact, "new" seems to be the theme this year! Thanks to increased demand, a new race has been added in the Subaru Triathlon Series. There's also a new running series sponsored by Subaru Canada, Inc. and to top it all off, Subaru has a new look for all our sponsorships in triathlon and running. Why is there so much that's new? Simple! Lifestyle sports are increasing in popularity and Subaru Canada is happy to 'pump up the volume' with increased participation in them.

The brand new Subaru Niagara Running Series is a seven-race series that takes place in Ontario's Niagara region. With combinations of 1 km, 5 km, and 10 km races, 5 km relays, a 1 mile and a 5 mile race, and two half marathons, there is a distance for everyone. It's a great way to get out and learn to run.

We have also renewed our commitment as title sponsor of the Subaru Triathlon Series in Ontario, Serie Subaru in Quebec and Subaru Ironman Canada for another two years.

Want to learn more about this challenging sport and perhaps participate in one of these exciting events this summer? Check out the event listings and Web sites provided. ★


20th Anniversary



SUBARU TRIATHLON SERIES

www.trisportcanada.com

Date	Race
July 9	Peterborough Tri/Du
July 22/23	Niagara Tri/Du
August 5/6	Belwood Tri/Du
August 20	Northern Tri Club Championships
September 2/3	Guelph Lake II
September 9/10	Sherkston Shores Sprint Championships
September 23	N.O.T.L. Duathlon



www.sporttriple.com

Date	Race
July 16	Valleyfield Tri/Du
August 6	Ste-Agathe Tri/Du
September 9	Saint-Sauveur Duathlon



SUBARU NIAGARA RUNNING SERIES

www.instride.ca

Date	Race
August 12	The Benchberry 5K, 1K & 2K Person Relay
October 1	The Standard Run for the Grapes COGECO 1/2 Marathon & White Oaks 5K
November 4	Tim Hortons Casablanca Classic 5 Miler & 1 Mile



For more information on this year's Ironman Canada taking place August 27 visit www.ironman.ca



PHOTO: A SHOT ON SITE

targa tarmac makes for a rally great day!

Would you like to see a rally experience quite unlike anything else in North America? Look no further than Targa Newfoundland.

2002 marked the inaugural Targa Newfoundland race, a new concept in tarmac rallying for North America. The idea came from Targa Tasmania in Australia and in four short years it has developed a solid reputation in the international motor sport world. Subaru Canada, Inc. entered this five day, 2,200 km road rally for the first time in 2003 and has been back every year since.

Last year, Subaru's powerhouse two-car team wasn't your run-of-the-mill manufacturer's entry. Brothers John and Clarke Paynter returned, driving the same 2004 Impreza WRX STI that Patrick Richard drove to capture the Canadian and North American

though. Their Subaru was designated the Targa "Camera Car." Claude operated multiple cameras that were mounted on the car and John's job was to alternately chase and be followed by Targa class competitors. In so doing, he captured unique Targa rally footage for TV. Clearly the fastest car in the rally, their Subaru was so quick Claude often had to pause filming while he waited for cars they had passed to catch up again!

One of the big reasons these two teams did so well, aside from their obvious skill...was their renowned Subaru Canada service crew. For the second year in a row, the crew was awarded the Rick Stryjski Outstanding Service Crew Award for its willingness to help all competitors.



PHOTO: CATHY COLE

Championship in 2004. For the third year running, the Paynters drove their Subaru to an impressive victory, out-driving 14 other cars in Class 9. What's more, they also received a coveted gold Targa Plate. A gold Targa Plate is awarded to any competitor who competes for three years in a row and meets all Targa stage times in each year.

Subaru number two was piloted by rally legend John Buffum, along with his navigator, renowned videographer Claude Gariepy. They contested the rally in a powerful 400-bhp 2006 Subaru Impreza WRX STI. Buffum and Gariepy competed with a twist,

This year, the Subaru rally team is ready to take on "The Rock" once again. From humble beginnings just a few short years ago, 2006 marks the fifth anniversary of Targa Newfoundland. It's a rally experience unlike anything else in North America. While there are more competitors every year, with every running of Targa Newfoundland, many aspects like the fantastic scenery, the challenging roads and the friendly atmosphere on the island remain a constant. It's something you have to experience for yourself! This year's Targa takes place from September 9th to 16th.

Want to learn more? Check out www.targanewfoundland.com ★



kids making a difference

For the past six years, Subaru Canada, Inc. has been a proud sponsor of Toddle for Tots, and this year we will be marking lucky number seven.


The annual fundraiser for Toronto's Ronald McDonald House guarantees a fun-filled day for the entire family. Toronto's Ronald McDonald House provides a 'home away from home' for out-of-town families whose children are receiving specialized medical care in Toronto for a serious illness. There are twelve houses across Canada dedicated to this very mission.

Toddle for Tots is truly a story about kids helping kids. Taking place this year at the Toronto Zoo on September 30th, this interactive day promises laughter and entertainment for everyone involved. Kids will take

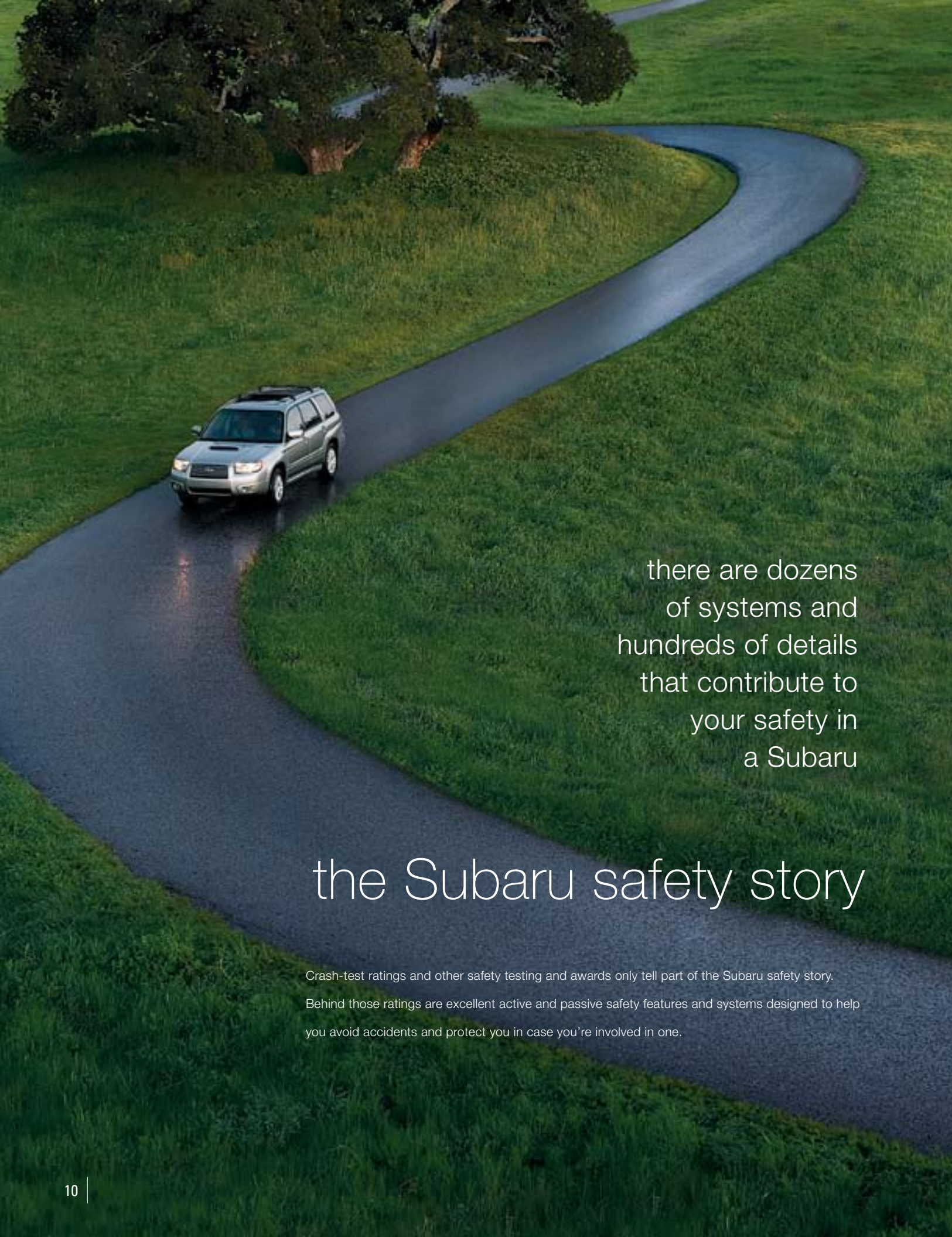
part in a Fundraising Safari throughout the entire zoo. They'll track down animals using the Toddle Safari Map and participate in many cool activities. In order to raise funds, all participating kids are asked to collect pledges for their efforts.

As a special treat, world-renowned children's author and storyteller Robert Munsch will be back for his third year. Munsch was a huge hit last year with children and adults alike. Everyone is looking forward to seeing him again.

Gary Filippini, Vice President with Subaru Canada, Inc. and Toronto's Ronald McDonald House board member, states, "We are excited to be a part of such a worthwhile event and are committed to partnering with our Dealers to assist with all Ronald McDonald Houses across Canada in the future." ★



Visit Toronto's Ronald McDonald House online at www.rmhtoronto.org for more information on the House and its services.



there are dozens
of systems and
hundreds of details
that contribute to
your safety in
a Subaru

the Subaru safety story

Crash-test ratings and other safety testing and awards only tell part of the Subaru safety story.

Behind those ratings are excellent active and passive safety features and systems designed to help you avoid accidents and protect you in case you're involved in one.

In your driving experience, have you ever had to swerve to avoid something that suddenly appeared? Did you hit your brakes very hard? Were you able to accomplish these seemingly simple maneuvers without spinning or skidding? If so, you've used some of your vehicle's active safety features. You use them any time you drive, to one degree or another.

When discussing safety, we tend to focus on seatbelts and airbags, but there are dozens of systems and hundreds of details that contribute to your safety in a Subaru. The automobile industry generally divides vehicular safety systems into two types – active safety and passive safety. Active safety features help you to avoid an accident. Passive safety features help protect vehicle occupants should an accident occur. The 2006 Subaru vehicles have both.

ACTIVE ACCIDENT AVOIDANCE

Control is one of the most important aspects of driving a vehicle. Steering, braking, cornering, shifting, accelerating – these all contribute to how you control the vehicle.

When you're in control, you determine how closely you follow the vehicle in front of you, when and how you come to a stop, when and where you make turns and hundreds of other driving decisions. Sometimes decisions are made in a split second – emergency braking, for example. That's a clear case of active safety.

Consider how these Subaru active safety features play a part in accident avoidance. Notice, too, how their functions interconnect.

Steering

Your vehicle's steering system is one of the most obvious active safety features. Precise rack-and-pinion steering systems are standard in every Subaru vehicle. Response is immediate, and changes in direction are direct.

Braking

Another obvious active safety feature is braking. Most Subaru vehicles have four-wheel-disc brakes, which cool quicker than drum brakes to reduce brake fade. As a result, the brakes will function better. Disc brakes also function better than drum brakes after driving through high water.



**SYMMETRICAL
AWD**

Subaru vehicles are all equipped with 4-channel/4-sensor/4-wheel Anti-lock Brake Systems (ABS) – most models also include Electronic Brake-force Distribution (EBD). ABS helps to prevent wheels from locking up under emergency braking. This active safety feature is not intended to shorten braking distances, but rather to allow steering control. A skidding front wheel provides no directional control – it just slides forward. A rolling front wheel lets the driver steer away from trouble.

EBD can variably adjust brake-force between the front and rear wheels using wheel sensors to detect passenger and cargo load. Most of the braking is usually done by the front wheels to take advantage of the forward weight shift – for greater control. The greater the load inside the cabin, the greater the amount of braking that can be realized at the rear wheels. By shifting more brake-force to the rear, EBD helps maintain optimal stopping distance, even when the vehicle is weighed down.

SUBARU BOXER and symmetrical full-time All-Wheel Drive

All Subaru vehicles have horizontally-opposed (boxer) engines that are fuel efficient, powerful and low in emissions. Horizontally-opposed engines have a flatter profile than in-line or V-type engines. That helps to lower the vehicles' centre of gravity, which has positive effects on handling and resistance to rolling over. Subaru is one of only two vehicle manufacturers that build boxer-type engines for the Canadian market; the other is Porsche.



The SUBARU BOXER engine's lower centre of gravity causes less body roll than an in-line or V-type engine.

Engine performance also enhances safety, because it allows the driver to accelerate away from trouble in some situations. Subaru vehicles have excellent power-to-weight ratios, which improve acceleration – especially with the turbocharged and six-cylinder engines.

Subaru symmetrical full-time All-Wheel Drive (AWD) can provide motive power to all four wheels. Four wheels fighting for traction are much better than two. With all drivetrain components – the engine, transmission, driveshaft and front and rear differential – laid out longitudinally, close to the centre point of the vehicle, one side of a Subaru powertrain mirrors the other. That's what makes it symmetrical, balancing the vehicle and adding to driver control.

Four-wheel independent suspension

Each of a Subaru vehicle's four wheels is suspended independently from the one opposite. Each responds to road surfaces without being tied into what the other wheel is doing. That means the wheels are more likely to be in contact with the road surface and maintain traction – for greater control in steering, accelerating and braking.

Vehicle Dynamics Control (VDC)

Standard on the Subaru B9 Tribeca and Outback 3.0R VDC Wagon, is VDC, a stability-control system. When VDC senses that the vehicle is sliding due to understeer or oversteer, it will manage individual wheel braking and reduce engine power to help correct the slide – adding to driver control. VDC will also be standard on the all-new 2007 Legacy 2.5GT spec.B.

Tire Pressure Monitoring System (TPMS)

This system measures air pressure in the vehicle's tires and alerts the driver via a warning light if pressure has fallen below a safe level. Proper inflation is important to maintain consistent vehicle handling. TPMS is standard on the Subaru B9 Tribeca.

Other active safety features

Besides engine and chassis features, other details play a part in active safety:

- **Visibility from within** – the ability to see well all around a Subaru can help a driver be aware of potential problems as they develop. Notice how well you can see out of your Subaru.
- **Visibility to other drivers** – all Subaru vehicles have standard daytime running lights. These make a vehicle easier to see, helping to reduce accidents.

- **Climate control** – heating and air conditioning keep fresh air flowing through the cabin, as do optional air filtration systems. These features contribute to active safety by helping to keep the driver alert.

PASSIVE IMPACT PROTECTION

Passive safety features don't play a part in protecting a vehicle's occupants until an impact occurs. Some of these features, like crumple zones and airbags, are not visible unless utilized. Others, like seatbelts, should be a part of every trip in your Subaru.

The word passive shouldn't imply that these features and systems are slow. They have to react in fractions of a second to provide the award-winning protection of which they're capable. Also, passive safety features are designed to work together as a system to help protect vehicle occupants.

Seatbelts

All Subaru vehicles have height-adjustable, three-point front seatbelts. By adjusting to an occupant's height, the front seatbelts provide improved protection. Three-point belts, which help to prevent a person's torso from lurching forward, are standard for all seating positions.

The front seatbelts also have pretensioners with force limiters. In an impact, the pretensioners' control unit signals them to reel in slack in the seatbelt, which helps to hold occupants in place, allowing airbags to be more effective. In impacts of sufficient force, devices in the pretensioners called force limiters unwind the seatbelts a little to help prevent injuries caused by the belts themselves.

Airbags

Depending on the model, front, side-impact and side-curtain airbags can deploy upon impact to help protect occupants.

These are part of the Subaru Supplemental Restraint System, which is intended to work in conjunction with the primary restraint system – the seatbelts.

Advanced ring-shaped reinforcement frame

The cabin is surrounded by a frame made of high-strength steel. It's intended to prevent intrusion and to protect the occupants in an impact. The ring-shaped reinforcement frame functions along with the front and rear crumple zones to absorb and redistribute impact energy away from cabin occupants in an accident.



Collapsible steering column

In a frontal impact, the steering column collapses toward the front of the vehicle. This helps to absorb impact energy so that it's not passed on to the driver.

SUBARU BOXER engine

The SUBARU BOXER engine is held by bolts that shear in an impact. Due to its horizontal profile and low placement, it is designed to pass under the vehicle, minimizing intrusion into the passenger cabin.

Other available passive safety features

- **Height adjustable passive safety front-seat head restraints** – in an impact, head restraints automatically move forward to help prevent whiplash.
- **Brake-pedal assembly** – in some Subaru vehicles, the pedal assembly moves forward in an impact, helping to prevent injury to the driver's feet and legs.
- **Rear door safety locking system** – these prevent children from opening the doors from the inside while allowing them to be opened from outside.
- **Internal trunk release** – a luminescent release handle in the trunk of sedans allows someone inadvertently locked in the trunk to escape.
- **ISO-FIX/LATCH anchor system** – the federally mandated system simplifies the installation of child safety seats, enhancing safety.
- **Occupant detection system** – in some models, this system determines the weight and presence of the occupant, deploying the airbag accordingly. ✦



The proof is in the testing

Government crash-testing as well as tests by insurance groups prove the effectiveness of Subaru safety engineering. Subaru vehicles consistently earn high ratings in these tests (see page 5 for safety ratings).

INSURANCE INSTITUTE FOR HIGHWAY SAFETY


The IIHS is an independent non-profit research and communications organization funded by auto insurers. For over 30 years the IIHS has been focused on identifying the best vehicles and technologies to minimize occupant injury in motor vehicle crashes. Since 1995, it has conducted a series of crash tests to rate vehicles and provide consumers with comparative crashworthiness information.

The IIHS safety rating system is based on a passenger vehicle earning a crashworthiness rating of good (being the highest), acceptable, marginal or poor in front, side and rear performance tests. Crashworthiness refers to how well a vehicle protects its occupants in a crash. In each size category, the vehicles that receive a "Top Safety Pick" (GOLD) have earned a 'good' rating for all three of these tests.

• **Frontal offset crash tests** (40 mph/64.4 km/h) are a good assessment of a vehicle's structural design. With the IIHS frontal offset crash tests, only one side of the vehicle's front end, not the full width, hits the crash barrier so a smaller area of the structure must manage the crash energy. The frontal offset crash test specifically measures: *structural performance*, indicating how well the front-end crush zone managed the crash and how limited the intrusion was for the driver; *injury measures* recording levels of stress and strain on head, neck, chest, legs and feet; and *restraints/dummy kinematics* which test how safety belts, airbags, steering columns and head restraints interact to control dummy movement.

• **Side-impact crash tests** (31 mph/50 km/h) assess occupant protection when vehicles are struck in the side by SUVs or pickups. With side-impact crash tests a moving deformable barrier built to simulate a pickup or SUV impacts the driver's side of a vehicle perpendicularly.

• **Rear-impact crash tests** (20 mph/32 km/h) focus on how well the seat/head restraint combinations protect against whiplash injury in a rear impact.

 www.nhtsa.dot.gov The National Highway Traffic Safety Administration, an agency of the Department of Transportation (US government) uses a 5-star government vehicle rating system that is part of the New Car Assessment Program.

• **Frontal crash tests** (35 mph/56 km/h). With dummies in the driver and front passenger seats, vehicles are crashed into a fixed barrier, simulating a head-on collision between two vehicles. Instruments measure the force of impact to each dummy's head, neck, chest, pelvis, legs and feet. Frontal star ratings indicate the chance of a serious head and chest injury to the driver and right front seat passenger.

• **Side-impact tests** (38.5 mph/62 km/h) simulate an intersection-type collision with a 3,015-pound (1368 kg) barrier moving into a standing vehicle. These tests indicate the chance of a life-threatening chest injury for driver, and front and rear-seat passengers.

• **Rollover resistance** ratings measure how 'top heavy' a vehicle is with how well it performs in a severe turning maneuver on a test track.

For more information on NHTSA's crash tests and rollover ratings visit safercar.gov. IIHS testing information can be found at iihs.org

a greener environment ahead

the B5-TPH, the R1e concept cars and other Subaru innovations

With the effects of global warming becoming more apparent and gas prices on the rise, the development of new technologies for environmentally “future friendly” vehicles is gaining momentum. You may be surprised to know that Subaru is right “in the thick of it!” Environmentally friendly enhancements have already been made to a number of vehicles in the 2006 Subaru line-up. Plus, through the development of concept vehicles, Subaru is currently researching even greater green technology and ways to bring it to you.

B5-TPH Concept Car makes its North American debut at the Detroit Autoshow

Hybrid electric vehicles, which use a combination of an electric motor and an internal combustion engine, are currently the most popular future-friendly vehicles. By drawing power from the electric motor, the load on the internal combustion engine is reduced, in turn greatly reducing fuel consumption and minimizing emissions. The Subaru B5-TPH concept car, with its turbocharged acceleration and excellent fuel economy, is a perfect example of the symmetry between electricity and internal combustion.

The B5-TPH employs Subaru’s innovative Turbo Parallel Hybrid (TPH) system. TPH uses a gasoline turbocharged SUBARU BOXER engine to deliver 256-hp and 253 lb-ft of torque and a supplemental electric motor that produces 111 lb-ft of torque.

The thin 10-kw motor generator/electric motor, powered by a high performance Manganese-Lithium-Ion (Mn Li-ion) battery pack, is placed between the gasoline turbocharged boxer engine and automatic transmission. This configuration helps generate low-end torque to match high-end horsepower and provides excellent fuel economy of 6 L/100 km.

In layman’s terms, the combination of the motor generator and the turbocharged SUBARU BOXER engine creates a system that offers both a powerful and pleasurable driving experience when the turbocharger is active, while also delivering superb acceleration and fuel economy during practical use. Keeping true to the Subaru spirit, this environmentally friendly concept car delivers sports coupe performance with SUV functionality and compact car efficiency! For Subaru, TPH just might be the future of turbocharged vehicles.



R1e Concept Car – an excellent concept for urban centres

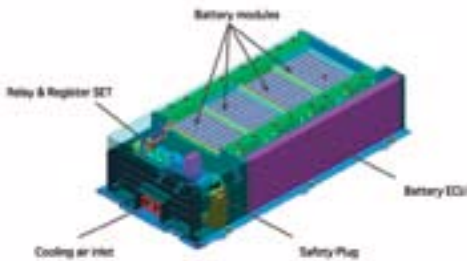
With advances in battery technology, pure electric vehicles are emerging as the next generation of greener driving. Subaru, with its all-electric R1e concept car, is at the forefront of this technology. One of the main drawbacks with operating a purely electric vehicle has always been battery life. Anyone who has ever had the battery run out on a golf cart in the middle of the 14th hole knows what we are talking about. Subaru, with its co-development of the compact Manganese-Lithium-Ion battery, is sparking a renewed hope in the functionality of pure electric vehicles. For Subaru, that hope begins in the form of the Subaru R1e, which is based on Japan’s R1 mini car. This little vehicle delivers a rare combination found in electric vehicles – excellent power output, easy maintenance and a fast charging battery. On a full charge the R1e can travel 120 km. And, forget what you’ve heard about other electric vehicles taking eight hours to recharge. With an exclusive charger for the R1e, a quick recharge – five minutes to power up 90% – and you’re on the road again! Want to get your hands on one? For now, this innovative concept car is only testing commercially with customers in Japan.



- 1 Battery charger
- 2 DC-DC converter
- 3 Electric motor
- 4 Mn Li-ion battery
- 5 Inverter

The Manganese-Lithium-Ion (Mn Li-ion) battery pack

Manganese-Lithium-Ion batteries are compact (approximately the size of a VCR), lightweight, and designed to last up to ten years or 150,000 km. This high performance battery powers the electric motor/generator of the B5-TPH and the pure electric R1e concept car. Its roots are traced back to the Li-ion batteries that power laptop computers and cellphones. Like the batteries in these modern gadgets, the Manganese-Lithium-Ion battery that keeps these Subaru concept cars going is compact and lightweight, allowing it to achieve superior electric power density and longevity. The use of manganese in its positive electrode also means that it is safer. Forward thinking with sound technology – you’d expect nothing less from Subaru.



Active Valve Control System

One of the most important aspects of producing greener vehicles is reducing emissions. For 2006, all 3.0R and turbocharged Subaru vehicles feature the Subaru Active Valve Control System. This system is designed to reduce emissions while improving performance and providing a smooth idle. The technology uses a hydraulic system that is controlled by the engine management computer to vary the timing of the intake valves so that whether the vehicle is idling, driving at a leisurely pace, or under hard acceleration, peak performance and the lowest possible emissions are achieved.

Active Valve Lift

Not to be left out, all 2006 Subaru models that feature the naturally aspirated 2.5 L engine enjoy the benefits of Subaru's i-Active Valve Lift System. While conventional valve lifters are one-piece, the i-Active Valve Lift System features two-piece valve lifters that work separately at low RPM or together at high RPM. This helps provide better low-end torque and engine efficiency while allowing these Subaru vehicles to meet one of the strictest emissions standards for gasoline engines.



SI-DRIVE

In 2007, Subaru will break new ground with Subaru Intelligent Drive, (SI-DRIVE), which delivers an unprecedented driving experience by maximizing engine performance, control and efficiency. By adjusting the SI-DRIVE selector located on the centre console, a driver is able to alter the engine management system settings for throttle response and engine performance (acceleration, fuel economy, emissions) as well as the transmission shift pattern (automatic transmission equipped models only) for three unique driving modes: Intelligent (I), Sport (S), and Sport Sharp (S#). It's like having three engines in one.



SI-DRIVE mode dial

The *Intelligent mode* minimizes throttle opening on acceleration for less turbo involvement and less aggressive acceleration. The result is better drivability in low-traction driving conditions. This mode also allows lower engine idle and improved fuel economy (as much as 10%) during commuting, city and bumper-to-bumper driving conditions where engines consume the most fuel. The *Sport mode* provides greater engine output and a quicker and smoother throttle response. It is ideal for driving on highways and suburban streets. For spirited drivers, the *Sport Sharp (S#) mode* offers an exhilarating level of engine performance and control. Throttle response is quicker, allowing the turbocharger to be engaged sooner for more aggressive acceleration. This mode is ideal for merging or overtaking other vehicles on the highway or tackling twisty roads with confidence.



Intelligent mode



Sport mode



Sport Sharp mode

More to Come

The future of environmentally friendly vehicles is in finding a balance between sustainability and performance. With the recent unveiling of the B5-TPH and R1e concept cars, advancements in Manganese-Lithium-Ion battery development, and the innovative "greening" of its current line-up of vehicles, Subaru has shown the world we are committed to doing just that. Add to this the fact that Subaru is currently researching the possibility of an alternate hybrid based on Toyota's Hybrid System. And, presently in the European market, Subaru is working toward the introduction of a diesel SUBARU BOXER engine for environmentally conscious consumers with stricter budget constraints. The future certainly does look greener. ✨

born to be driven
2006 Impreza



The 2006 Impreza is for drivers who are passionate about the drive – not just getting there. No matter which model you choose, every vehicle in the Impreza line-up offers the high level of performance, versatility and complete control you'd expect from a Subaru. The 2006 Impreza Sport Wagon and Sedan deliver even better performance, and a new sense of style that is more aggressive, sophisticated and aesthetically pleasing than ever before. It is the perfect complement to our renowned symmetrical full-time All-Wheel Drive system and FIA World Rally Championship (WRC) heritage. When it comes to safety, it's no surprise that Subaru technologies are regarded as top notch. The 2006 Impreza just picked up a GOLD Award from the Insurance Institute for Highway Safety and was declared a "Top Safety Pick."*

The face of performance sports a new look

Subaru’s dynamic sense of style really shines through with the redesigned 2006 Impreza line-up of Sedans and Sport Wagons. Keeping true to the distinctively bold and confident athletic stance that the Impreza is known for, its style has taken on a more aggressive, aerodynamic and sexier persona than ever before. Featuring a completely redesigned front fascia, with a new aerospace-inspired grille that elevates its level of sophistication, the new look and style is sure to get your heart racing. The Impreza also sports stylish projector beam headlights, a new hood and eye-catching new taillights that complete the look. Taking on the same aggressive styling as our Subaru FIA World Rally Championship (WRC) cars, the newly redesigned Impreza stands out from the crowd and gets noticed. We treat every aspect that goes into the making of a car equally here at Subaru, and yes, we like it when you call us perfectionists!

Ready for a road near you

There are two types of drivers out there: the ones that travel from point A to point B, and those that experience a real connection with their vehicles. It’s for this latter group that the Subaru 2006 Impreza line-up of Sedans and Sport Wagons was created. Our engineers have dedicated themselves to making the 2006 Impreza better than ever. The 2.5 L SUBARU BOXER engine that powers the Impreza

2.5i and Outback Sport is more powerful than ever, producing an impressive 173-hp and 166 lb-ft of torque. Enhancements in engine performance are attributed to an i-Active Valve Lift System complementing the SUBARU BOXER powering these models. This new system employs two-piece rocker arms that can work separately at low RPM or together at high RPM, which helps to provide excellent low-end torque, engine efficiency and performance you can feel.

The SUBARU BOXER engine powering the WRX model is brand new for this year. Its displacement has grown from 2.0 L to 2.5 L, translating into a 230-hp, 235 lb-ft of torque thrill ride. The 300-hp WRX STI is also new and improved due to its enhanced aerodynamics and revised, rally-proven symmetrical full-time All-Wheel Drive system. The WRX STI features some of our most advanced technology yet – with a 2.5 L, high boost turbocharged and intercooled engine, plus 300 lb-ft of torque. It also enjoys a 6-speed state-of-the-art transmission with a Subaru-exclusive Driver Controlled Centre Differential (DCCD). The DCCD has also been substantially enhanced for 2006, giving you more control over the torque split between the front and rear wheels. The turbocharged and intercooled SUBARU BOXER engines found in both models feature Subaru’s Active Valve Control System, which ensures peak performance and the lowest possible emissions.

Surpassing safety expectations

Subaru takes home a “Top Safety Pick” GOLD Award from the IIHS (Insurance Institute for Highway Safety) for the 2006 Impreza. We couldn’t be happier, especially since it’s one of only three vehicles in the automotive industry to receive this rating in the small size category. In order to receive a GOLD designation, each vehicle must earn “good” ratings (good being the highest rating) in the Institute’s frontal offset, side-impact and rear-impact crash tests. “Every Subaru is designed to offer the highest possible levels of active and passive safety to both driver and passenger,” a commitment Katsuhiko Yokoyama, President, Chairman and CEO of Subaru Canada, Inc. stands by. The foundation of Subaru’s passive safety (occupant protection) stems from an advanced ring-shaped reinforcement frame which helps to offer a 360 degree barrier of protection and is exclusive to Subaru.

In addition to excellent occupant protection measured by the IIHS, every Subaru is also equipped with the outstanding active safety of our symmetrical full-time All-Wheel Drive System, which provides superior traction and control even in the most challenging road conditions.

The 2006 Impreza was designed from the ground up to offer best-in-class active and passive safety, providing driver confidence and peace of mind whenever you decide to drive. No matter what road or driving conditions you encounter along the way, safety is one less thing you’ll need to be thinking about. ✦



PHOTO: ALDAS MINKEVICIUS

2006 IMPREZA AT A GLANCE:

NEW DESIGN

- Redesigned hood, bumpers and aerospace-inspired front grille
- Elegant headlights and eye-catching taillights

MORE POWER

- WRX: 230-hp, 235 lb-ft of torque
- 2.5i/Outback Sport: 173-hp, 166 lb-ft of torque

BETTER PERFORMANCE

- 2.5i/Outback Sport: i-Active Valve Lift System
- WRX STI: Enhanced aerodynamics, improved Driver Controlled Centre Differential (DCCD)

AWARD WINNING SAFETY

- IIHS GOLD Designation awarded to vehicles achieving ratings* of “Good” (highest score) in the following crash tests:

Frontal offset crash test – 40 mph (64 km/hr)
Side-impact crash test – 31 mph (50 km/hr)
Rear-impact crash test – 20 mph (32 km/hr)

INSURANCE INSTITUTE
FOR HIGHWAY SAFETY

*Results for 2006 Subaru Impreza model year. Ratings of “Good” are the highest rating awarded for 40-mph frontal offset, 31-mph side impact and 20-mph rear impact crash tests conducted by the Insurance Institute for Highway Safety (IIHS).





Outback 2.5i Special Edition



Legacy 2.5i Special Edition Sedan



Legacy 2.5i Special Edition Wagon

a little something special

The choice is yours with three new Special Editions

Take the already impressive Legacy Sedan and Wagon or our versatile Outback, inject an extra shot of special equipment, and you’ve got our Special Editions. The Legacy 2.5i Special Edition (SE) models communicate sophistication and poise from every angle, while the Outback 2.5i Special Edition (SE) gives you the versatility and freedom to follow your own path. With award wins of a GOLD Insurance Institute for Highway Safety (IIHS) crash test rating* for the 2006 Legacy, and a National Highway Traffic Safety Administration (NHTSA) 5-star crash test rating** for the 2006 Outback, each are a welcome addition to any family.

Legacy 2.5i Special Edition Sedan and Wagon

Although performance and safety are the main reasons why many people choose a particular vehicle, the 2006 Legacy 2.5i Special Editions boast a little something extra that might be worth noting. The sky’s definitely the limit with added natural light and fresh air from a powered glass moonroof. Sedans feature a single-panel

design while Wagon models display a sophisticated twin-panel version. And for added style and safety, both models offer foldable, heated, body-coloured side mirrors sporting integrated LED turn signal indicators and a trio of stylish exterior colours to choose from. Adding to the Legacy’s already impressive resume, additional safety features like projector beam fog lights allow you to always see what lies ahead while a rear Special Edition badge can give you that little extra something that makes you stand out from the rest of the crowd.

Outback 2.5i Special Edition Wagon

If you’re ready to tackle whatever the road throws in front of you, your search ends here with the perfect companion for your active lifestyle. Combining safety, refinement and truly accommodating functionality, the 2006 Outback 2.5i Special Edition will complement any feat you decide to take on. With special edition features similar to those found in the Legacy 2.5i SE – like a power

moonroof with sunshade (twin-panel design), body coloured side mirrors with integrated LED turn signals, a front bumper with a titanium coloured underguard and special edition badging, this is one special edition you’ll want to check out.

The Outback 2.5i SE also features a trio of stylish exterior colour choices accented with rugged protective body-side cladding. Take on the road ahead of you in style with colours fit for any explorer.

Both the Legacy and Outback 2.5i SEs are powered by an efficient 175-hp, 2.5 L SUBARU BOXER engine at their heart, and Subaru’s symmetrical full-time AWD system as their backbone. Each model also features an i-Active Valve Lift System that provides better low-end torque, engine efficiency and performance every time you turn on the ignition. And each model assures driver and passengers the highest standards of occupant protection with their array of six airbags, anti-whiplash front seat head restraints and an advanced ring-shaped reinforcement frame. So go on and get out there! The quest to deliver the perfect Legacy and Outback has ended and we’ve made no compromises along the way. ✦

LEGACY 2.5i SE SEDAN & WAGON AT A GLANCE

- 2.5 L, 175-hp SUBARU BOXER engine
- Top Safety Pick - GOLD (IIHS)*
- Power glass moonroof, heated side mirrors with integrated LED turn signals and projector beam halogen fog lights



OUTBACK 2.5i SE AT A GLANCE

- 2.5 L, 175-hp SUBARU BOXER engine
- 5-Star Crash Test Rating (NHTSA)*
- Power moonroof with sunshade (twin-panel design), body coloured side mirrors with integrated LED turn signals and front bumper with titanium coloured underguard

An exceptional value-added package for just \$699***

Results for 2006 Subaru model year vehicles. *Ratings of "Good" are the highest rating awarded for 40-mph frontal offset, 31-mph side impact and 20-mph rear impact crash tests conducted by the Insurance Institute for Highway Safety (IIHS). ** Government star crash ratings are part of the National Highway Traffic Safety Administration's (NHTSA's) New Car Assessment Program (www.safercar.gov). A five-star crash rating is the highest government rating for a) Driver and right front seating positions in frontal crash tests and b) Front and rear seating positions in side-impact crash tests. ***2.5i Special Edition models are valued at \$699 over base models (2006 Legacy 2.5i and Outback 2.5i) MSRP. See Dealer for details.

let the fun begin

Subaru introduces our sportiest Legacy ever

Prepare to connect to the road like never before with our sportiest, most exclusive Legacy yet. The 2007 Legacy 2.5GT spec.B takes your ride one step beyond the road you're used to travelling.

With maximum driving control in the palm of your hands thanks to our unique SI-DRIVE (Subaru Intelligent Drive), driving conditions or personal driving desires can be met with just the flick of a switch. This unique 3-mode performance management system controls engine variables such as valve timing and turbo boost to deliver a range of acceleration characteristics, from fuel-saving to full-on propulsion.

Inspired by our FIA World Rally Championship cars, inside you'll find an exclusive, performance oriented interior that stimulates the eyes as well as the pulse. This specially equipped model also includes a Bilstein® sport-tuned suspension, added driveline technology and a 6-speed manual transmission – all with the legendary symmetrical full-time All-Wheel Drive system and 243-hp horizontally-opposed SUBARU BOXER engine at its core. Make sure to experience this enhanced driving innovation for yourself and discover why "freedom of choice" just got a whole new meaning.

SPEC.B



So what makes it so special?

You'll know the spec.B is something special when you see the exclusive 18-inch aluminum alloy wheels with performance tires, and Diamond Grey Metallic painted exterior. Step inside to find an inspiring atmosphere enhanced by charcoal leather-trimmed upholstery with blue Alcantara® interior accents. Our sportiest, most exclusive Legacy yet boasts a leather-wrapped MOMO® brand steering wheel with audio controls, a touch-screen GPS navigation system and aluminum alloy sport pedals.

Delivering all the excitement you'd get from a Legacy 2.5GT but taking it a step beyond, the spec.B possesses an aggressive

sport-tuned suspension with Bilstein® shocks, aluminum suspension components that reduce overall weight, a 6-speed manual transmission and SI-DRIVE technology that elevates performance management to an art form. SI-DRIVE is like having three engines in one as you get to control and customize your own vehicle performance. These advanced features make the spec.B one sporty, reliable vehicle.

With amplified performance, new features like SI-DRIVE and a sportier look and feel, the 2007 Legacy 2.5GT spec.B will get your heart pumping and connect you to the road like never before. It's our most exhilarating Legacy ever, and will be arriving this fall. ➤



What is SI-DRIVE?

Discover our unique SI-DRIVE (Subaru Intelligent Drive). Consisting of three separate driving modes, the SI-DRIVE centre-console selector changes the nature of the engine's performance, letting you customize your own driving experience.

- **Intelligent (I) mode** provides well-balanced performance with greater fuel efficiency and smooth drivability that's ideal for city driving.
- **Sport (S) mode** is ideal for driving on highways or suburban streets.
- **Sport Sharp (S#)** offers exhilarating levels of engine performance and control that are great for twisty roads, merging and overtaking other vehicles.

Whether you're seeking smooth, efficient driving performance or maximum control, the SI-DRIVE delivers.

LEGACY 2.5GT spec.B AT A GLANCE

- 243-hp turbocharged 2.5 L 4-cylinder SUBARU BOXER engine with Active Valve Control System
- 6-speed manual transmission
- Bilstein® sport-tuned suspension
- Subaru Intelligent Drive (SI-DRIVE)
- Vehicle Dynamics Control (VDC)
- 18" 10-spoke aluminum alloy wheels
- Touch-screen navigation and monitor system
- Torsen® limited-slip rear differential



home sweet home

You would never throw garbage onto the street or drive an old air-polluting clunker. So, have you ever given any thought to what your home might be doing to the environment? You might be surprised at how easy and affordable it is to whip your home into great environmental shape. Want to know how a bit of food colouring, a bright sunny day, and a bottle of sand could save you hundreds of dollars and help you to help save the environment? Read on!

The sanctuary

One of the easiest places to start a home energy tune-up is in the bathroom. And, since about 3/4 of all indoor water use is in the bathroom, it's also a great place to save money! Here are some simple ways to save you over 100,000 litres of water a year!

- **Turn off the tap when you brush your teeth.** You'll save 7–12 litres of water per minute, conservatively over 10,000 litres per year. For a family of four, that's almost enough water to fill a swimming pool!
- An **energy saving showerhead** can provide a strong water flow while reducing hot water use by up to 30% – that's approximately 28,000 litres of water a year. And, a short shower uses only half as much hot water as a bath.

- In the average home, the toilet accounts for 28% of water use. To cut down on water waste, **put an inch or two of sand or pebbles inside each of two plastic bottles to weigh them down.** Fill the bottles with water, screw the lids on, and place them in your toilet tank, away from the operating mechanisms. On average, you will save 45 litres of water a day.
- If you have older toilets, **check them for leaks by putting a little food colouring in your toilet tank.** If, without flushing, the colour begins to appear in the bowl within 30 minutes, you have a leak that could be wasting up to 630 litres of water a day!
- If you are in the market for a new toilet, **purchase an “ultra low flush” model** and consider a dual flush toilet, which uses either three litres or six litres of water, depending on what's being flushed.

- **Fix leaky taps!** A tap dripping every second wastes 720 litres of water per month – enough for 32 showers.
- **Install faucet aerators on your faucets.** Aerators mix air into the water flow and reduce water consumption by 25-50% per tap.

On the topic of water, do you want to know if you have leaks anywhere else in your home? Read your water meter before and after a two-hour period when no water is being used. If the meter does not read exactly the same, there's a leak somewhere.



Kitchen central

Everyone's favourite room is also the biggest energy user.

- **Use the microwave instead of the stovetop or oven** whenever possible. Microwaves use between 1/5 and 1/2 as much energy. When microwaving, food cooks faster when placed on the outer edges of a rotating tray, allowing more microwaves to interact with the food.
- When you must cook in the oven, **resist opening the door!** Each peek will cost about 25% of the heat inside.
- **A gas stove with an electric ignition** (piezo) will use 40% less gas than one with a continuous pilot light.
- **Use foil reflectors** under the elements on an electric stove to reflect heat back at the pots.
- **Induction cooking** uses 90% of the energy produced compared to only 55% for a gas burner and 65% for traditional electric ranges. Induction cooktops have the same instant control as gas and are the fastest to heat and cook food.
- Are your door seals still up to par on your refrigerator and freezer?

Close a five dollar bill into the door so that it's half in and half out. If you can pull the bill out easily, the latch may need adjusting or the seal may need replacing.

- **Don't put hot foods directly into the refrigerator and cover foods and liquids.** Foods and especially liquids will release moisture and cause the refrigerator to use more energy.
- **Full freezers operate more efficiently.** If your freezer isn't full, fill plastic containers with water and freeze them. This will also help in the event of a power outage.
- To purchase the most energy efficient appliances, **look for EnerGuide (Canadian) or ENERGY STAR (US-made) approved products.** When shopping for a new range, models with a self-cleaning oven are more efficient because they have more insulation. If you clean your oven only two or three times a year, a self-cleaning unit will likely save energy compared with a regular oven. Front loading washers use 50% less energy, less water, less soap, and they are better for your clothes. Side-by-side refrigerators use more energy than the standard models with freezers on the top. Bottom-freezer models are slightly more efficient than top freezer models. Chest freezers are more energy efficient than upright models, as cold air stays inside when the lid is opened.



Your home office

You already use a lot of brain energy in this room so why not cut back on all other types of energy used?

- **Turn equipment off when it is not in use.** It is a myth that computers use large amounts of energy when starting up. It is much more cost-effective to shut the computer down when you are finished using it. Also, ink-jet printers use far less energy than laser printers and desktops consume ten times more energy than laptops.
- Many kinds of equipment have chargers. **When they are not charging, unplug them,** as they draw some power whenever they are plugged in.



Around the house

Your home may be your castle, but to avoid palace-sized utility bills, here are some more helpful tips:

- We all want to light up our lives, but how you do it can be very important. **Compact fluorescent bulbs last between five to nine years longer** and use up to 70% less energy than incandescent bulbs. Even halogen bulbs last two to four times longer and use 40% less energy than incandescent bulbs. At a minimum, use energy saving bulbs in lower wattages (32, 52 and 90W) and use dimmer switches. A bulb dimmed by 25% uses 10% less energy.
- If you have a gas fireplace, make sure it is doing all the good it can. **Spread the heat around a greater area by using a ceiling fan.** When trying to stay cool, ceiling fans are the most energy-efficient. If you have central air, cool only the rooms you are using and set the thermostat just 3 or 4 degrees below the outside temperature.

Green clean

You can make your world much healthier by making your own cleaning products. Check out www.eartheasy.com to find great ideas like:

- **All-purpose cleaner:** Mix 1/2 cup vinegar and 1/4 cup baking soda into 2 L of water to clean windows and remove water deposit stains on bathroom surfaces.
- **Window cleaner:** Mix 2 teaspoons of white vinegar with 1 L warm water and apply with crumpled newspaper. To avoid streaks, don't clean windows if the sun is on them or if they are warm.



And to really help stay cool, perhaps you need to start at the top – in the attic, that is. Solar fans are a great way to improve circulation in attics, lofts, workshops, and storage sheds – wherever you've got hot air!

- While passive solar energy can be a great thing, we have all heard the term "too much of a good thing!" During the winter, loads of sunlight shining in through your windows can cut down on heating costs. **Keep drapes open on sunny winter days** and then close them at night to help retain the heat. For older windows, storm windows can reduce heat loss by 25% to 50%. But, if you don't want the hassle, try quilted window shades with a track or magnetic strip to hold the blind tight to the window frame.
- When summer rolls around, we all love those warm sunny days but they can play havoc with the temperature inside our homes.

White window shades, drapes or blinds will reflect heat away from the house, and make sure you close curtains on the south-facing and west-facing windows during the day. If you have lots of south- and west-facing windows, you may consider awnings or reflective films to reduce solar gain even more.

- **To make your windows and doors less leaky**, do a house check in the spring and fall. Inspect all windows and doors for caulking and weatherstripping damage. And, when it comes to doors, while they will cost you more up front, insulated doors will save you money in the long run.



Where no one dares to go

Laundry is a nasty chore but since it has to be done, you might as well try to save money while you're at it!

- About 25% of all household hot water is used for washing clothes. **Use cold-water washing wherever possible** and always rinse with

cold water. By rinsing in cold water, you can save enough energy for 220 showers per year.

- **Avoid the permanent press cycle** on your washing machine – it uses more water.
- **Run consecutive dryer loads** to take advantage of accumulated heat.
- **Clean the dryer lint screen after every load**, and at least once a year, check that the dryer vent hasn't become clogged. Clogged vents slow down drying time and are a fire hazard!
- Many people are going back to **drying clothes outside**. There's nothing like a spring breeze to bring out the best in your clothes.

The great outdoors

There are lots of easy and beautiful touches you can make outside to change the way you live inside and out. Trees and ivy trellises provide shade in summer both outside and inside, and do not block sunlight during winter. **When planning your gardens, think about water usage first.** Group plants with similar water needs to make watering more efficient. Switch from thirsty, exotic grasses to hardy native varieties, and limit lawns, which need more watering.

Consider the alternatives

With the rising cost of energy, consider solar or wind energy systems to power your home.

- Passive solar heating occurs when sunlight passes through a window. **In sunrooms, install heat-absorbing floors** that retain heat for later in the day when the sun sets.
- Active solar water heating systems use dark-coloured solar collectors to absorb the sun's energy and convert it into heat.
- Sunlight converted directly to electricity is known as photovoltaic (PV) energy. **Solar cells** are a safe, easy and reliable source of solar electricity.
- While not as common as solar yet, **erecting your own small wind turbine to generate electricity** is a practical and affordable option.

See how easy that was? The best way to make your life a little greener is simply to adjust your way of thinking. If you can begin to think greener, then it will be a simple matter to live greener. Plus, your hydro bill will love you! ✦

Ready to conserve energy and create a healthier home? Here are some helpful Web sites to get you started:

Ideas for environmentally sustainable living - www.eartheasy.com

Planet Friendly - More great environmental tips - www.planetfriendly.net

EnerGuide for Houses - See where energy is wasted in the home www.energguideforhouses.gc.ca

Electricity Choices - Explore alternative energy www.electricitychoices.org

Canadian Energy Efficiency Centre - www.energyefficiency.org

cleaning house



ISO 14001:2004 certification

Taking on the challenge of continually improving the quality of the environment can be a daunting task. However, that is just what Subaru Canada, Inc. is doing – we are cleaning house, too! You may recall in 2004, Subaru Canada, Inc. achieved ISO 14001:1996 certification, an internationally recognized standard for Environmental Management Systems (EMS). Today, we are proud to report that we not only maintained our certification after passing our first maintenance audit, but we updated our system to comply with the new standard ISO 14001:2004.

At Subaru Canada, we believe that corporations should clearly recognize their social responsibility to continuously do their part to minimize any negative environmental impact that may be created as a result of their commercial activities. Our parent company, Fuji Heavy Industries (FHI), shares our belief. Every year, top representatives from FHI and various North American subsidiary companies meet to present activities and accomplishments, discuss specific goals and review our collective global environmental strategies.

And these strategies are significant. Each member company establishes programs in their local community and throughout their established markets. At Subaru Canada, we are actively participating in programs such as Earth Day, Environment Week, and the Mississauga LitterNot Program. We would love for you to participate as well. Gather together with your family and friends to partake in these programs or find local environmental programs in your area or with your local Subaru Dealer. Individually and collectively we can make a significant difference in protecting our environment for future generations. ✦

Vachon Subaru - Contest Winner

On April 22, 2006 we invited our Dealers across Canada to participate in Earth Day by encouraging their staff to clean up the areas in and around their dealership facilities. Several Dealers took part in this event to show their commitment to the environment. Vachon Subaru, located in Ste-Marie de Beauce, Quebec, was picked as the winning dealer entry which earned their dedicated employees recognition in this issue of *Six Star Magazine*.

Marco Vachon, Dealer Principal of Vachon Subaru, states, "The environment is very important to our business, our customers and our employees, as many staff members have young families and feel a strong desire to protect the environment for the next generation." ✦



why it's worth it

The benefits of synthetic oil

Comparing synthetic motor oil to regular mineral motor oil is a little like comparing regular table wine with fine vintage wine. On the surface, they may both look the same, but dig a little deeper and the differences become obvious.

Synthetic oil has many advantages: It flows better at low temperatures, offers exceptional protection at higher operating temperatures, reduces wear and tear on the engine, and protects against harmful deposits and overheating. Let's look at each one of these individually:

1. Easier flow at low temperatures

Most of the damage and wear and tear on an engine takes place at cold start – the colder the start, the more damage occurs. It's actually quite simple, as oil gets colder it gets more viscous and thicker, which can then take longer to reach every part of the engine. Since we're all busy people, we don't usually take the time to let our engine wake up properly and idle for a minute or two when we first start it up on a stone cold morning. Synthetic oil is made especially for busy people, even in very cold Canadian temperatures. Synthetic oil will get to all the parts of the engine in record time making sure that proper lubrication is available as soon as possible.

2. Better protection at higher temperatures

Canada is a land of extremes, we have very cold winters and sometimes very hot summers. Regular mineral oil breaks down more rapidly than synthetic oil in higher temperatures, during stop and go traffic or during any other time where the engine is under higher stress. Synthetic oil is just more stable.

3. Longevity

Synthetic oil not only protects engines in very cold as well as very hot temperatures, it also lasts longer. When you have your oil changed at the recommended intervals, you'll notice that synthetic oil is in much better shape than mineral oil would be after the same number of kilometers.

4. Protects against harmful deposits

Due to the fact that synthetic oil does not break down as easily as mineral oil, harmful deposits are deterred from forming and are better isolated if they do form. Harmful deposits form in a few different ways, the worst is in frequent short trips (especially in colder weather) when the engine doesn't get warm enough to get rid of all the built up humidity. People living in small towns are more likely at risk since everything is about 15 minutes away.

5. Helps protect against overheated engines

Due to the fact that synthetic oil lubricates that much better, reduces friction and therefore reduces generated heat, your engine is less likely to overheat. It is still very important, however, to make sure your vehicle's cooling system is in perfect working order; since all these systems – when working properly – will offer you years of worry-free driving.

Subaru is all about having the best performance – the best All-Wheel Drive system and exceptional power that comes from our engines. Nowhere is this more evident than in our turbocharged engines. Power is nice but any engine used to its higher limits will consume more oil due to the higher stresses and temperatures placed upon it – regardless of whether it's a turbocharged engine driven with passion or a normally aspirated engine pulling a heavy load through our many wonderful mountain ranges. Again, due to its more stable properties, synthetic oil is better able to resist oil consumption; but you should still check your oil on a regular basis just to make sure! ✦

personal touches

Adding your own personal touch to your car is easy with our wide range of interior and exterior accessories. Whether you are looking to add more versatility, style or convenience, customizing your Subaru to fit any lifestyle is easy, enjoyable and stress-free. Visit your local Dealer or www.subaru.ca to see what is available.



The reverse sensing system available for the Subaru B9 Tribeca will sound a warning if the vehicle is within five feet of an object while in reverse. The available trailer hitch package will tow up to 1,588 kg (3,500 lbs) and comes complete with transmission oil cooler, wiring harness and drawbar. (Ball not included.)



Add comfort for long trips or everyday driving with an armrest extension available for Legacy, Outback and Impreza models. Its out-of-sight storage is great for those valuable items like a cell phone. (Legacy shown.)



Give your vehicle a chance to warm up or cool down with a remote starter which works up to 500 feet away. See your Dealer for availability.



A moonroof deflector will help you make the most of those beautiful summer days by helping to reduce wind noise and sun glare.

Recommended equipment for the world's high performance automobiles



It's more than just a car - it is an all-road, all-weather, all-conquering performance machine. The 300 horsepower Subaru WRX STI is based on the technology that goes into the legendary Impreza FIA World Rally Championship car, which has dominated rally courses through every type of road and weather condition imaginable. There is only one oil equal to this magnificent machine – Mobil 1. Mobil 1 is recommended fill in all Subaru vehicles, and other incredible automobiles. Visit www.mobil1.ca



lucky number 7

I don't think we're in Kansas anymore...

Michael Harrison's family has been purchasing Subaru automobiles since the early '80s. And, Michael has never had an accident in one – until Subaru number 7.

Earlier this year, Michael and his wife Lisa were on their way back to Canada from South Carolina. Driving their trusty Subaru Outback, nicknamed “Oz,” they were travelling north along I-79 when a rapid change in temperature instantly created deadly black ice. Within a few metres there were three dangerous single-vehicle accidents. Michael and Lisa became the fourth! Unfortunately for them, their car went from black ice on the road to an equally ice covered shoulder and soon they were rolling over counterclockwise, then clockwise down the ditch. When it was all said and done, their vehicle had settled in a grove of small trees.

Michael and Lisa checked themselves out, and then checked each other out. With no obvious injuries, they got themselves out of their 2005 Outback and surveyed the damage. “Oz” looked a mess



“Oz” took a major beating in this rollover but the passenger cage held strong, protecting those inside.



and they knew looking at it that it would be headed for the scrap heap. Just about every finishing piece was either hanging off the car, or scattered in all directions. Three of the windows had blown out and there were dents everywhere. But, the most important thing, the passenger cage, was holding strong.

Amazingly, Michael and Lisa were not the only things that came out of the roller coaster ride unscathed. Their laptop computer and brand new 24” cut-glass candle holders were still perfectly intact as well.

Now, comfortably back in Canada, Michael and Lisa have purchased Subaru number 8, a brand new 2006 Subaru Outback. There was never any question that they would purchase another Outback but there was one big difference in the transaction this time. As Michael says, “Looking through the brochure, this was the first time I really paid attention to the page that describes the high tensile strength steel in the passenger cage.” As the Subaru Dealer where “Oz” is now resting put it, “I have already shown this vehicle to many of our clients. It is good for them to see the lengths that Subaru goes for passenger safety.”

Both the Dealer and the Harrisons knew that “Oz” likely saved two lives that day along I-79. ✦

The Harrisons now have a greater appreciation for the construction of the advanced ring-shaped reinforcement frame in the Subaru Outback.

Aluminum: 4.5%
Steel: 46.5%
High tensile strength steel with tailored-blank welding: 14.2%
High tensile strength steel: 34.8%

Subaru's Graduate \$Reward\$ Program



Graduating college or university is a huge accomplishment. When it's finally time to enter the workforce, you'll want a vehicle that is not only reliable and safe, but also stylish and incredibly fun to drive – no matter the road or weather conditions. You want it all, but don't want to break the bank doing it. That's where Subaru can help.

Through our Graduate Reward Program, Subaru Canada, Inc. is proud to offer a \$750 cash rebate to qualified college and university graduates who purchase a new Subaru vehicle. That's a \$750 cash rebate no matter which Subaru model you choose. Whether you pick the outstanding value of an Impreza, choose a Forester, Legacy, Outback, Subaru B9 Tribeca or even treat yourself to a WRX STI, you'll be getting everything you want – including the superb traction and control of Subaru symmetrical full-time All-Wheel Drive – for less than you imagined!

If you are within four months of graduating or have already graduated from a recognized university or college within the last two years, drop by your local Subaru Dealer to learn more about our \$750 Graduate Reward Program. It's the intelligent choice.

Eligible participants must be within four months of graduation, or have graduated in current year or previous two calendar years from a recognized university undergraduate degree program or two-year college program (48 weeks minimum). Rebate is applicable to new, unregistered vehicles only. Lifetime limit of one graduate rebate per qualified buyer. Vehicle must be registered in the graduate's name. Rebate is over and above most consumer retail offers available from Subaru Canada, Inc. Offer is non-transferable.

SUMMER'S HERE

ENJOY SUMMER IN STYLE with Subaru Symmetry, a line of premium apparel and collectibles – including Subaru, Subaru World Rally Team (SWRT) and Subaru Tecnica International (STI) branded items – designed for the Subaru enthusiast. Drop by your local Subaru Dealer to get in gear with Subaru Symmetry today!



SUBARU
SYMMETRY

Return undeliverable Canadian addresses to:

SUBARU CANADA, INC.

560 Suffolk Court
Mississauga, ON
L5R 4J7

1 800 876-4AWD
www.subaru.ca

**PUBLICATION AGREEMENT
40843047**

Think. Feel. Drive.

"Think. Feel. Drive." is our philosophy. It's not just a theme line, it's an automotive ideal. It's a belief system totally distinctive to Subaru.

THINK. It's all about how we think about drivers. What you want today and what you'll need tomorrow. That's the kind of thinking that goes into everything we do. *Your brain likes it.*

FEEL. It's an emotional connection that begins with engineers and designers and extends to our drivers. Turn on the ignition and you're in for a ride that makes you feel "wow." *Your heart knows it.*

DRIVE. It's about driving ourselves. To keep topping ourselves. To reach new frontiers. To go off the beaten path. And building a car that helps you get there. *Your soul thrives on it.*

SUBARU. It's a company with the same spirit and goals as its owners. Not all cars can be called Subaru. Not all car owners can be called Subaru owners. In the end, that makes all the difference in the world.



The Subaru Privacy Mission Statement

Subaru Canada, Inc. respects your right to privacy. Any information you supply to us is strictly guarded and will be used solely to help us serve you better. We do not sell our owner mailing lists. On occasion, however, we do partner with reputable companies that we feel are of interest to our owners in order to provide you with value-added products and services. If you no longer wish to receive this publication, or have any questions about our Privacy Policy and practices, or would like to review and/or correct your personal information on record at Subaru Canada, Inc. please contact us in one of the following ways: by e-mail at: privacyofficer@mysubaru.ca; by Internet at: privacy.mysubaru.ca; by telephone Toll Free at: 1-800-894-4212. Our Privacy Policy is available upon request and can be found in its entirety on our Web site: www.subaru.ca.