

## **FHI Unveils New Model Subaru *EXIGA*, a Seven-Seater for Panorama Touring**

Tokyo, June 17, 2008 – Fuji Heavy Industries Ltd. (FHI), the maker of Subaru automobiles, today announced the debut of its new Subaru EXIGA in Japan. The EXIGA went on sale nationwide through Subaru dealerships today.

Based on the concept of a seven-seater with panoramic visibility for the touring experience, the EXIGA has been developed to provide a safe and pleasant journey for all occupants. Capitalizing on its accumulated know-how from building wagons and crossover SUVs, Subaru has succeeded in creating open and comfortable interior space for all the passengers to easily engage in conversation and share the experience of touring enhanced by dramatic wide-angle views through the windows.

The new model represents Subaru's latest proposal for a new type of multi-passenger vehicle, built on Subaru's strengths in vehicle stability, low noise, and quality ride—all realized by Subaru's Horizontally-Opposed engine layout and the *Subaru Dynamic Chassis Control Concept (Subaru DC<sup>3</sup>)*.



Subaru EXIGA 2.0GT

### **Development Concept: a Seven-Seater for Panorama Touring**

- Seven passengers  
Despite a body size that's convenient for maneuvering, the EXIGA comfortably accommodates up to seven occupants, ensuring ample space and a pleasant ride for each passenger. Excellent utility and comfort have been added through the adoption of new designs for better visibility, ingress/egress, and cargo space.
- Panorama  
A bright, open interior space has been created for passengers in any seat to enjoy the scenery outside. The vehicle's low noise level allows all passengers to easily converse.
- Touring  
In addition to high levels of safety, both active and passive, the EXIGA blends high performance and smooth handling with high-quality riding comfort. The vehicle also offers excellent environmental performance and fuel economy.

### **FHI offers four EXIGA models:**

- 2.0i is the basic model with selected standard equipment, priced in a more affordable range
- 2.0i-L offers high quality finishes and expanded standard equipment
- 2.0i-S is a sporty model with a naturally aspirated engine, featuring dynamic powerful styling and interior designs
- 2.0GT is a *grand touring* car that combines potent powertrain performance with environmental considerations

## **Major Features**

### **1. Packaging**

- The EXIGA has realized ideal proportions that provide the optimal body size for better handling, as well as ample interior space through its carefully calculated measurements of the height, width, length, wheelbase, floor size, and roof design.
- Front and rear visibility is maximized by the creative design and positioning of pillars and windows.
- The three rows of seats are laid out at three different heights, like gradually elevated theater seating, placing the first and second rows slightly lower than the third to allow all passengers better outside views.
- A large *panoramic* glass roof fully covers area above the second row of seats and enhances the openness of the interior. The glass roof is available as an option on all models except the 2.0i.
- Large rear door openings with wide plastic door sills are designed to facilitate ingress and egress, and the rear doors also open nearly 90 degrees for easy access to the third-row seating.
- A double-wishbone rear suspension with reduced projection into the interior makes room for comfortable third-row seats and a wide luggage compartment.
- The subframe between the rear suspension and the chassis helps to reduce vehicle noise and absorb vibrations from the road.
- By using the newly designed resin fuel tank and optimizing the body frame structure, the floor has been made flat to provide spacious legroom for passengers in the third row.

### **2. Design**

[Exterior design]

- The EXIGA exterior design expresses the integration of the utility of a seven-seater and elegant styling.
- Two distinctively different front grille designs are available. The naturally aspirated models possess style that highlights refinement and simplicity with flowing chrome-plated contours. The design for the turbo model stresses a sporty and muscular impression by adopting a powerful wing-shape embellishment in dark plating on a metal mesh background.
- Headlamps are designed to provide depth from the front view. With a blue-tinted lens placed in the middle of the lamp, the design accentuates boldness and presence.
- Each of the four EXIGA model types is equipped with distinctive wheels and individually designed spokes.
- Eight exterior colors are available.

[Interior design]

- Decorative insets with a horizontally flowing pattern from the center panel of the dashboard to the door trim add spaciousness and a quality look to the interior. Rich and refined interior design is further accentuated by the center panel, which combines wood and metal finishes, as well as by the indirect blue LED light installed on the overhead console, center tray and some foot areas.
- Ivory tone that accentuates openness and light, and black tone, which highlights both sportiness and elegance, are available as interior colors.
- The seats are newly designed to firmly support the occupants and reduce fatigue, even during a long drive, and the seat cushions are made thick to effectively absorb vibration and provide comfort.
- The meter module on the instrument panel is distinctively designed with the meter background faces illuminated in blue to make the white dials clearly readable. The Sport Luminescent Meter, outlined with chrome-plated meter rings, is available on the 2.0GT, 2.0i-L, and 2.0i-S.

### **3. Utility**

- By removing the headrests, the front seatbacks can be tilted back flat to provide room for occupants to lie down.
- The left and right seats of the second row independently slide back and forth in a range of 180 mm. The seatbacks fold down easily with one-hand operation of the walk-in mechanism, allowing easy access to the third row seats.
- The third-row seats employ reclining mechanisms for more relaxed travel. The seatbacks fold down flat with easy operation to provide expanded cargo space in the back of the vehicle.
- Hooks for hanging bags, retractable hooks and 12-volt power outlet are provided in the cargo area.
- Thanks to reduced projection into the interior of the wheel housing and rear suspension, the cargo floor has been made flat. The cargo space offers two tiers. There is a layer under the cargo floor board that offers more space for storing small items. Even tall items like baby strollers can be placed vertically in that space without the need to fold them and lay them on the floor.
- Courtesy lamps are mounted inside of all doors for better egress/ingress at night.
- Blue lights illuminate the inside of the instrumental panel recesses, the center console, and the foot of the first and second row seats. They are not only useful at night but serve as elegant and premium quality décor.

#### 4. Powertrain

##### (1) 2.0-liter DOHC Engine (2.0i, 2.0i-L, 2.0i-S)

- The use of a redesigned DOHC cylinder head and the active valve control system (AVCS) promotes excellent environmental performance. Also better fuel economy is realized through adoption of the regular gasoline engine.
- With the optimization of the diameter and length of the intake manifold, and the adoption of *the equal length/constant pulsation independent exhaust system*, the engine's intake and exhaust performance has been elevated.
- Two catalytic convertors have been placed in tandem. The layout enables the convertors to quickly heat up, which facilitates catalytic activation during engine startup and improves on emission reduction efficiency.
- By expanding exhaust capacity with the twin mufflers, air flow resistance inside the mufflers is reduced, and excellent engine output characteristics and noise reduction are realized.
- The electric control sensor system helps reduce engine load and further improve fuel economy by controlling electric generation according to driving conditions.

##### (2) 2.0-liter DOHC Turbo Engine (2.0GT)

- A lightweight, resin-based intake manifold is used. The inner walls of the manifold are smooth and less resistant to the intake flow, elevating intake efficiency.
- The turbo charger was exclusively developed for the EXIGA. Optimization of its A/R and compressor, as well as a redesign of its turbine vane, have distinctively improved low-end torque and made powerful and responsive acceleration possible.
- Also adopted is a secondary air system that forces air into the exhaust port to burn out any gasoline remaining in it. The system helps eliminate harmful substances when the powertrain is still cool, and it promotes early activation of a catalytic converter.
- Through optimization of the construction of the intercooler, the pressure loss is kept at a minimum to improve cooling efficiency.
- The electric control sensor system helps reduce engine load and further improve fuel economy.

#### 5. Drivetrain and Chassis

- Lightweight and compact 4-speed AT with the *SPORTSHIFT* gear selection is standard on all 2.0 liter naturally aspirated models. By optimizing the final gear ratio, as well as through reducing friction among part assemblies, driving performance has been enhanced and fuel economy improved.
- 5-speed AT with the *SPORTSHIFT* gear selection is standard on 2.0 liter turbo models. The *down-shift blipping control* is added to enhance smooth gear change response when shifting down in manual mode.

- The SI-Dive (Subaru Intelligent Drive) system on the 2.0GT model offers three different modes of driving for the driver to enjoy: Intelligent; Sport; and Sport Sharp.
- The Active Torque Split AWD system is mounted on all naturally aspirated engine models. The turbo model comes with Variable Torque Distribution (VTD) system. Both systems distribute optimal torque to the wheels with the firm grip and traction, providing unrivalled vehicle stability.
- Integrating robust body structure with finely tuned chassis elements, all models feature *Subaru DC<sup>3</sup>*, which ensures outstanding handling and vehicle stability as well as superb riding comfort.
- The vehicle is equipped with a strut-type front suspension, which is made lightweight and resilient. Newly designed cross-members and stabilizers yield excellent steering response.
- A double-wishbone rear suspension with optimized suspension geometry settings provides exceptional traction and vehicle stability, as well as riding comfort, even at full occupancy.
- All models employ four-wheel ABS disc brakes with EBD (Electric Brake-force Distribution) for superb braking performance. The Brake Assist system and a brake booster with unique tie-rod design appropriately maximize braking control.
- Two types of tires, 205/60R16 and 215/50R17, are available. Both are capable of balancing various vehicle elements, including stability, braking, comfort, and mileage.

(SPORTSHIFT is the trademark of Prodrive Ltd.)

## **6. Body Construction and Safety**

- The EXIGA uses an advanced form of Subaru's proprietary Ring-Shaped Reinforcement Frame Body Structure. Through streamlined body construction and the extensive use of high-tensile steel, the new model has achieved high body rigidity and light weight.
- A cowl stay enhancement is used to connect the front side frame and A pillar, and supportive cross-members have been adopted to further improve steering response and increase vehicle stability.
- The EXIGA, with its advanced frame construction, has realized high levels of safety and crash-worthiness through effectively absorbing and dispersing crash impact in frontal, side-, or rear-impact crashes.
- By enhancing impact absorption in the front bumper and incorporating structural changes to the hood, the new model addresses safety features for pedestrians and other vehicles in collisions.
- The front wiper system features a new uniform-pressure, fin-shaped design that creates downforce to prevent blade lift-off during high-speed driving.
- Dual SRS (supplemental restraint system) air bags are standard on all models. SRS side air bags and curtain air bags that protect the third-row occupants are manufacturer's options.

- All pillar trim adopts impact-absorbing structures. To reduce the risk of whiplash injuries in a rear collision, the seatbacks employ new impact-absorbing designs.
- A collapsible brake pedal is available on all models to reduce the risk of foot injuries in frontal collisions

## 7. Environmental Considerations

Environmental performance

		2005 exhaust emission standards		2010 exhaust emission standards			
		75% reduction from the 2005 levels	50% reduction from the 2005 levels	25% better than the 2010 standards	20% better than the 2010 standards	10% better than the 2010 standards	5% better than the 2010 standards
2.0i	2WD						*3
	AWD				*1		
2.0i-L	2WD			*1*2			*3
2.0i-S	AWD				*1		
2.0GT	AWD						

\*1: These models qualify for incentives under Japan's Green Taxation System

\*2: Vehicles more than 1,520kg in weight

\*3: Vehicles less than 1,510kg in weight

- The EXIGA utilizes interior materials and adhesives that release much smaller amounts of VOCs (volatile organic compounds). Such VOCs as formaldehyde and toluene, which are believed to cause irritation in the nose and throat, have been largely reduced.
- Highly recyclable, integrated PP (polypropylene) materials are used in the dashboard, door trim, and other parts. Recycled materials from PET bottles are also used.
- The Info-Eco mode prompts the Info-Eco Indicator on the instrumentation to light up when running on low fuel consumption, encouraging mileage-conscious driving. In addition, The Eco Gauge, which promotes driving in an energy-saving manner is available on the 2.0i-L, 2.0i-S, and the 2.0GT.

## 8. Others

- Ventilation for the rear seats is placed on top of the dashboard, effectively circulating air to the third row of seats. Standard on all models, the ventilation system is extremely quiet with greatly reduced operating and airflow noise, yet it efficiently cools the entire cabin.
- The air conditioning system on the 2.0i-L, 2.0i-S and 2.0GT models offers a function to allow temperature adjustments independently on the left and right sides of the seats.

- The combined audio system of CD player and AM/FM tuner, compatible with MP3 and WMA\* formats, and an HDD navigation system with audio capability and a rearview camera (compatible with Subaru G-Book Alpha telematics service) are optional on all models.

\*WMA is the registered trademark of Microsoft Corporation in the U.S. and other countries.

- A keyless entry system with a push-start button is a manufacturer's option.

### **Major specifications of EXIGA**

- Overall length: 4,740mm, Overall width: 1,775mm, Overall height: 1,660mm, Wheelbase: 2,750mm
- 2.0i, 2.0i-L, 2.0i-S:  
2.0-liter DOHC 16-valve, Horizontally-Opposed, 4-cylinder, gasoline engine  
Max. output (net): 109kW(148PS)/6,000rpm  
Max. torque (net): 191N.m(19.5kg.m)/3,200rpm  
SPORTSHIFT E-4AT  
AWD system: Active Torque Split AWD system  
215/50R17 Tires with aluminum alloy wheels (2.0i-S)  
205/60R16 Tires with aluminum alloy wheels (2.0i-L)  
205/60R16 Tires with full wheel caps (2.0i)
- 2.0GT:  
2.0-liter DOHC 16-valve, intercooled, turbocharged, Horizontally-Opposed, 4-cylinder, gasoline engine  
Max. output (net): 165kW(225PS)/5,600rpm  
Max. torque (net): 326N.m(33.2kg.m)/4,400rpm  
SPORTSHIFT E-5AT  
AWD system: Variable Torque Distribution system  
215/50R17 Tires with aluminum alloy wheels

### About Fuji Heavy Industries Ltd.

Fuji Heavy Industries Ltd. (FHI), the maker of Subaru automobiles, is a leading manufacturer in Japan with a long history of technological innovations that dates back to its origin as an aircraft company. While the automotive business is a main business pillar, FHI's Aerospace, Industrial Products and Eco Technologies divisions offer a diverse range of products from general-purpose engines, power generators, and sanitation trucks to small airplanes, crucial components for passenger aircrafts, and wind-powered electricity generating systems. Recognized internationally for its AWD (all-wheel drive) technology and Horizontally-Opposed engines in Subaru, FHI is also spearheading the development of environmentally friendly products and is committed to contributing to global environmental preservation.

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