

October 14, 2003

Fuji Heavy Industries' exhibition at the 37th Tokyo Motor Show 2003 - 2 New concept cars will be unveiled -

Fuji Heavy Industries Ltd. (FHI), a global manufacturer of transportation and aerospace-related products and the maker of Subaru automobiles, today announced the major features of its Subaru vehicles and their technologies, which will be exhibited at the 37th Tokyo Motor Show to be held at Makuhari Messe

With the key word "Think. Feel. Drive.", Subaru's core message is to appeal a car that realizes pleasurable driving, very high safety and excellent environmental performances at the same time. In the booth, the Symmetrical AWD -- the core technology to our ideal performance criteria -- and the next-generation power source, Subaru's own advanced technologies to move and satisfy people through driving are shown. The two concept cars exhibited are created by Subaru's design team headed by Advanced Design's Chief Designer Andreas Zapatinas. Subaru's next-generation design trends, in which the function of the car and emotional aesthetics are shown in those concept cars.

A press briefing is scheduled for Wednesday, October 22 from 12:55 to 13:15 at the Subaru Booth (West Hall), where President Kyoji Takenaka, Advanced Design's Chief Designer Andreas Zapatinas will be present (Zapatinas will deliver a speech in English).



Subaru B9 Scrambler



Subaru R1e



Subaru R2

The Exhibits/Concept Cars

Subaru B9 Scrambler

A two-seater Hybrid Electric Vehicle (HEV) that reflects Subaru's concept to offer an open-air motoring both on and off the roads. The car's powertrain is called Sequential Series HEV (SSHEV) -- a fusion of our own Symmetrical AWD and the latest HEV technologies.

<Main features>

1. The styling, free from stereotypes and existing limitations, is advanced yet gives somewhat familiar feelings. The design elements found on the B9 Scrambler suggest Subaru's tradition as an aircraft manufacturer and our design trends in the future.
2. With the run-flat tires on, the B9 Scrambler features the variable-height air suspension that can adjust minimum ground clearance from 150 mm to 200 mm, in addition to the auto leveling function.
3. The SSHEV system drives the car at the most frequently used speed ranges (up to around 80 km/h) with a high-performance motor and realizes smooth acceleration, good fuel efficiency and superb environmental performances.
4. The dashboard that conjures up an image of an aircraft's wing.

Subaru R1e

As a mobile tool that fits well with personal use in the urban life, the Subaru R1e features a 2 + 2 layout packaging. The Electric Vehicle (EV) power unit uses a high-performance battery and advanced power control technology with consideration given to the environment as well.

<Main features>

1. The optimum packaging that fits urban lifestyle and provides joyful driving. This results in an overall length shorter than Japanese minicars, with emotional and energetic proportion.
2. The 2 + 2 packaging is ideal for urban single- and two-person lifestyle. Compact sizes offer ease of parking and flexibility: indispensable elements to urban life.
3. The EV system uses a light, compact brushless motor with high output and excellent reliability and manganese lithium-ion battery featuring very high energy density. The battery can be charged by taking electric power out of the single-phase 200V AC outlet which is generally used for home air conditioners.
4. Driving the R1e is done with two pedals (throttle and brake) just like normal automatic transmission cars. The automatic transmission's shift range is comprised of usual "P-R-N-D," with a "B" range in which strong regenerative brake operates. In addition, the creep control and electric motor-assisted power steering enhance driving ease in actual daily use.

The Exhibits/Prototype

Subaru R2

The R2 is a fashionable, lively minicar that offers richer driver life. Despite of its small sizes, the R2's exquisite build quality makes the car having classless, strong and tangible presence.

<Main features>

1. The "One-Motion Form" flowing from the front end to the roof top underlines the R2's distinctive silhouette, while the exterior and interior represents "Sportiveness" and "Elegance."
2. The 4-cylinder DOHC NA engine with AVCS is newly developed for the R2. Combined with the i-CVT, the engine makes the top-level fuel economy of the class and mobility compatible. The supercharged version of the engine offers even more enjoyable and sportier riding with a 7-speed sports shift combined.
3. The chassis members with maximum-strength forms, along with the body panels having optimal curves for increased strength, are used to achieve important goals in this environmentally conscious age: to save resources.
4. Weight reduction and safety performances go hand in hand on the R2. It features improved compatibility in the event of an accident and pedestrian protection.

Subaru Legacy Touring Wagon Transcare

Designed to provide comfortable driving to handicapped person and senior citizens, this Legacy uses a rotative passenger wing seat. The passenger seat rotates and protrudes from the body by 80 mm, making it easier to sit in and get out of the seat. The seat's rotation can be done with a wireless remote. The comfortable seat is same as other Legacy models, and its electric slide control with 240 mm of slide range makes long-distance drives a joy. The model shown at this year's Tokyo Motor Show is equipped with a special drive aid developed for the drivers with a leg handicap. A pull-type throttle ring and brake bar are positioned behind the steering wheel to control acceleration and braking. The Transcare can also be operated by non-handicapped person in the same way as regular cars.

Subaru Legacy B4 CNG (shown at the Environment Experience Land)

The Legacy B4 CNG is a low exhaust-gas emission vehicle and utilizes natural gas which is a resource that can be produced and supplied within Japan's soils. Using Subaru's 2.0-liter horizontally opposed DOHC 4-cylinder engine with AVCS as a base and combining it with a multi-point fuel injection developed specially for CNG, the engine produces high performance over wide rpm ranges and realizes U-LEV equivalent environmental performance at the same time. The use of Symmetrical AWD that offers superb active safety will contribute to propagating the low-emission vehicles in the cold districts where the demands for Subaru AWD cars are particularly high.

Other Vehicles

Subaru Legacy Outback

In 1995 Subaru led the world by launching the Legacy Grand Wagon (called Outback in foreign markets). The novel model made a phenomenal success, especially in the North American and Australian markets. The model has been continuously evolving since then and the model name changed from Grand Wagon to Lancaster. The model name has changed to Outback in all markets to correspond to this year's full model change and its extra sportiness and toughness.

Models on Exhibition

1. B9 SCRAMBLER [Concept Car]
 2. R1e [Concept Car]
 3. R2 (NA) [Prototype]
 4. R2 Supercharged [Prototype]
 5. LEGACY OUTBACK 3.0R
 6. LEGACY OUTBACK 2.5i
 7. FORESTER XT
 8. IMPREZA WRC 2003 [Prototype]
 9. IMPREZA Sedan WRX STi
 10. IMPREZA Sports Wagon 15i-S
 11. LEGACY Touring Wagon 3.0R
 12. LEGACY Touring Wagon 2.0R Transcare [Prototype]
 13. LEGACY B4 2.0GT spec. B
 14. TRAVIQ S package
- *LEGACY B4 CNG (shown at the Environment Experience Land) [Prototype]

The Subaru Booth

Overview

At the Subaru booth is a blue cocoon that churns out new products and new technologies; ergo, the entire booth is called "Blue Cocoon." Lighted with bright Subaru blue, the main stage features two concept cars that indicate future Subaru design trends and the shape of driving fun and environmental performances to come. At the center of the stage is a simple mechanical art that symbolizes Subaru Symmetrical AWD's advantages. The latest Impreza WR car uses the Symmetrical AWD and competes to verify the system's excellence in the toughest proving ground, i.e., the World Rally Championship. What's more, the driving simulators introduce the latest safety technologies and truly realistic "driving" of our AWD cars.

Events Targeting the General Public

A talk show by WRC driver Toshihiro Arai and a live talk by engineers who developed the Legacy are held several times a day every day.

Driving Simulator

This driving simulator is jointly developed by utilizing FHI Aerospace Company's technical know-how in building aircraft flight simulators, Subaru's Engineering Division involved in developing the vehicles and Subaru Test & Development Center the R&D foothold for our future technologies. A total of six driving simulators will be exhibited at the Show, and a variety of entertaining events will be held, including Active Driving Assist (ADA) test drive and back-to-back competition on the Subaru AWD cars with the interconnected simulators.