

Resource Recycling

Contributing to Building a Recycle-Oriented Society by Efficiently Using Resources

Basic Policy

The serious global issue of withering resources is a growing concern.

Japan depends on many resources from abroad and is also beset with issues such as illegal dumping and a lack of landfill sites.

In looking to contributing to build a recycle-oriented society, Toyota Auto Body is making further efforts efficiently use resources at our production bases and also improve vehicle recyclability.

Action Items

Development and Design

- Further Promote and Introduce Vehicle Recycle Design

Production and Logistics

- Further Promote Efficient Resource Use in Looking to Build a Recycle-Oriented Society
- Reduce Water Volume Consumption



Activity
StatusDevelopment
and Design

Promoting and Introducing Further Recycle Design for Vehicles

■ Addressing Vehicle Recycling Laws in Japan and Abroad

In January 2005, vehicle recycling laws were implemented, whereby a system began for hauling and recycling various types of freon gas, airbags, and Automobile Shredder Residue (ASR) from used vehicles.

Also in Europe, an End of Life Vehicle (ELV) disposal ordinance came into effect in 2000, which instituted vehicle recycle law in the European Union. From January of 2007, vehicle manufacturers in certain countries will begin all hauling and recycling of disposed vehicles.

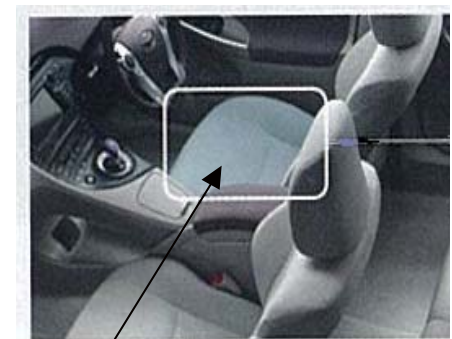
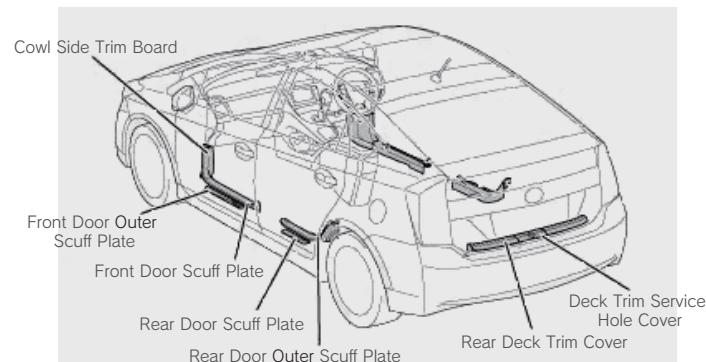
In coordination with Toyota Motor Corporation, we at Toyota Auto Body are making efforts from the development and design stages to develop and introduce vehicles that are easy to dismantle and recycle. We are also making efforts to expand use of potentially recyclable resources.

■ “Eco-Plastic” in the New Model Prius Harmonizes With the Environment

■ Eco-Plastic parts

We are developing “Eco-Plastic” made from potentially recyclable plant resources.

Eco-Plastic is being used in parts of the new model Prius such as the scuff plate and driver’s side seat cushion.



Driver's side seat cushion

Activity Status

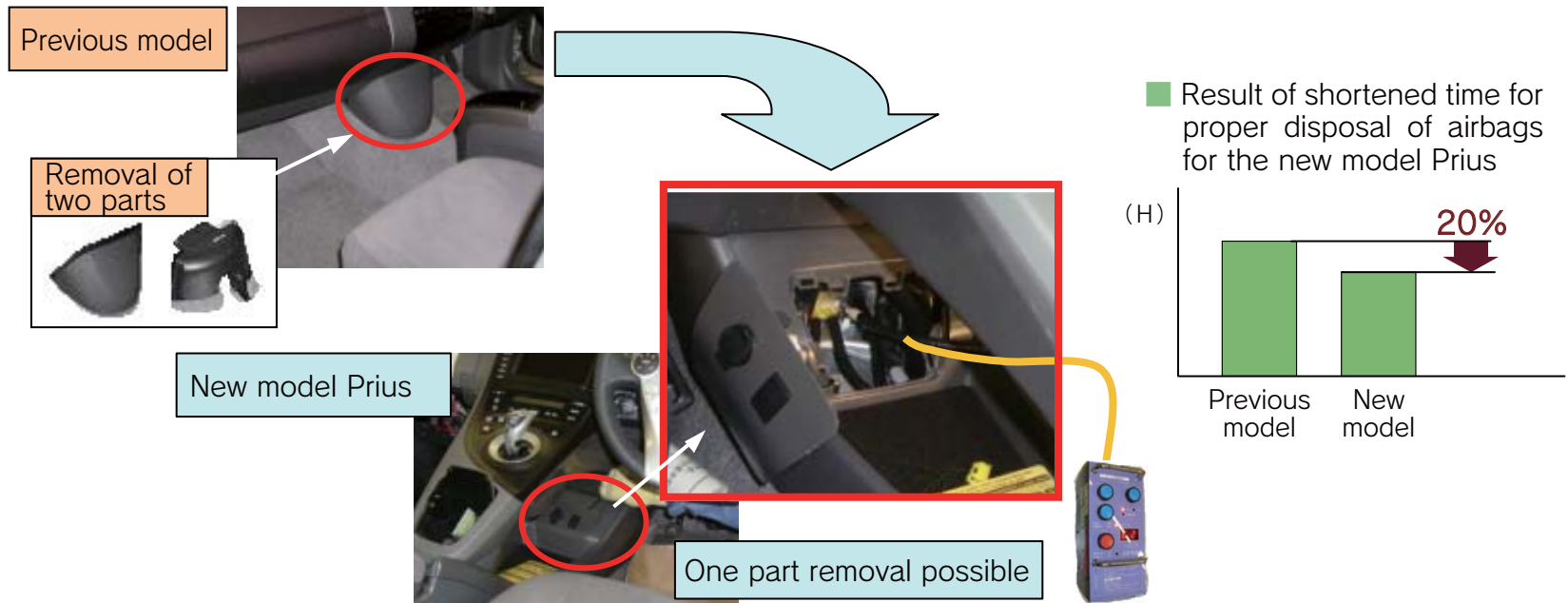
Development and Design

Promoting and Introducing Further Recycle Design for Vehicles

Efforts to Improve Vehicle Dismantlement and Recyclability

Toyota Auto Body has accumulated knowledge and improved technology in aiming to improve used vehicle recyclability and part dismantlement.

In the new model Prius, for parts that are recoverable under the recycle law, we have made efforts to shorten the time for proper disposal of airbags (single disposal introduced) by introducing a single disposal method, which resulted in a 20% shorter disposal time compared to previous models.



Activity Status

Production and Logistics

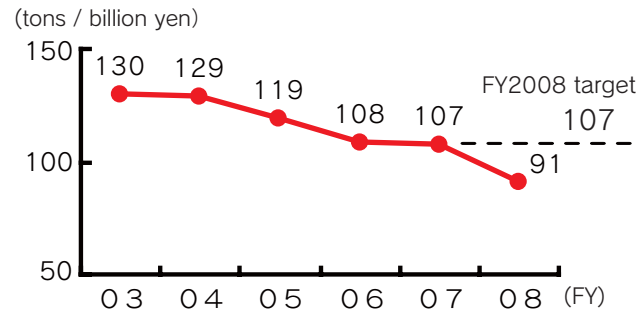
Promoting Further Effective Resource Use in Looking to Build a Recycle-Oriented Society

Activities to Reduce Waste Emissions Outside Our Company

Toyota Auto Body has created a reduction target for waste emissions within and outside our plants that includes not only waste substances, but also waste recycled for a fee. We are working to limit defects and also promote reduction in the volume of materials discarded.

FY2008 waste emissions volume outside our company was 134,000 tons.

- Waste emission outside our company per sales unit waste emission [FY2010 target: Less than 126 tons/billion yen] (3% decrease compared to FY2003)

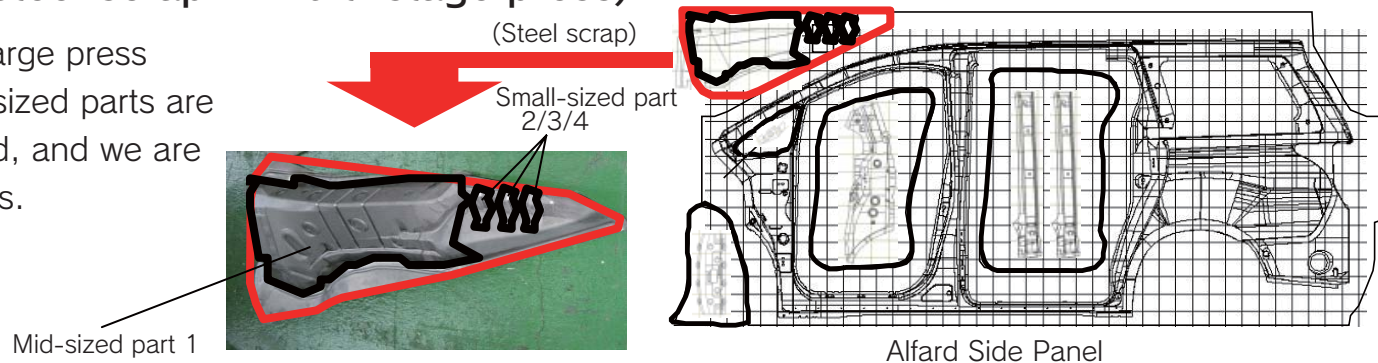


Breakdown of FY2008 waste emissions outside our company



Case Example of Improved Press Steel Yield Loss (Use of press steel scrap in multi-stage press)

Using steel scrap for large press parts, mid- and small-sized parts are simultaneously pressed, and we are achieving fewer defects.



Activity Status

Production and Logistics

Promoting Further Effective Resource Use in Looking to Build a Recycle-Oriented Society

Reducing Use of Packaging Material Volume in Logistics

Toyota Auto Body is progressively simplifying and changing packing layout to lighter materials by switching from wooden boxes to cardboard, and then to vinyl bags for packaging materials in production parts logistics and supply parts logistics.

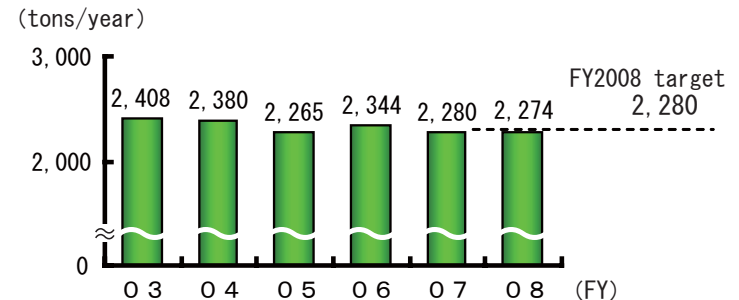


Previously used vehicle packaging (cardboard paper)



New model PRIUS packaging (Air cap packaging)

■ Packaging material volume
 [FY2010 target: Less than 2,280 tons/year]
 (5% decrease compared to FY2003)



Activity Status

Production and Logistics

Reduce Water Consumption

Toyota Auto Body are Continuing to Promote Water Conservation in Production Processes

Amid the serious shortage of water resources in the world, efforts to conserve water at Toyota Auto Body center on painting processes.

■ Water volume consumption in Toyota Auto Body production processes
 [FY2010 target: Maintained at 4.5m³/vehicle]

