

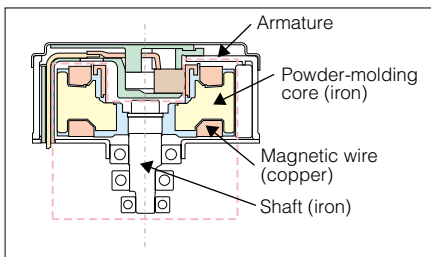
## [ Development of Recycling Technologies ] 5R products for resource saving

### [ Recycling WG Activities ]

Our approach to the development of products has been extended from our 3 Rs of Reduce, Reuse, and Recycle to 5 Rs, adding Repair and Rebuild. We design products that allow for easy disassembling and decomposition, reduce the types of parts, and use recyclable materials. Thus, our development activities are conducted with the efficient use of the common resources that are shared by everyone.

#### Flat, compact DC motor

A soft, magnetic powder-molding core is used for the armature portion of flat, compact DC motors, which permits easier disassembly and increases recyclability from 60% to 75%.



Easily disassembled by crushing



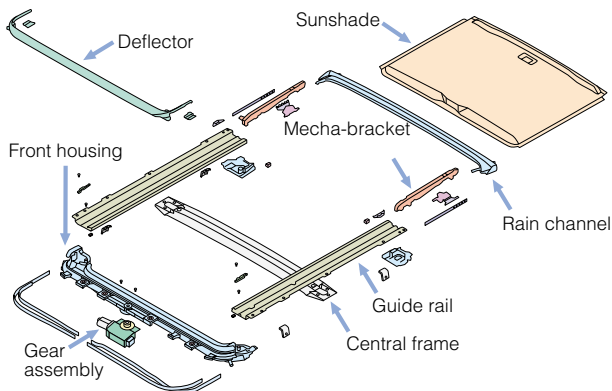
Copper



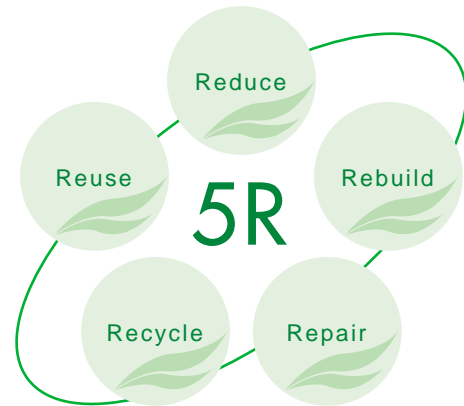
Iron

#### Sunroof

The structure of this sunroof has undergone drastic reviews. By integrating it into a one-piece construction, the number of parts has been reduced (12 functional parts were eliminated). By replacing the housing materials, the recyclability has been improved. Moreover, resin belts are recycled during the manufacturing process.

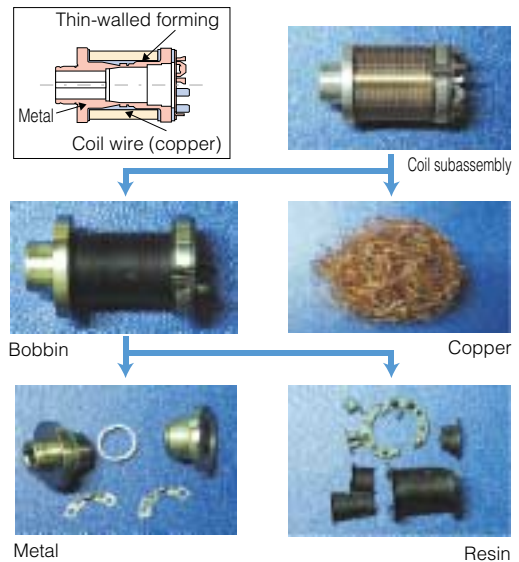


Recycling WG...Working group activities on recycling in the Technology Development Division



#### Linear solenoid valve

It is easier to disassemble the coil assembly of the linear solenoid valve by using a thin-walled forming process in place of mold construction. Thus, the recycling rate has improved from 50% to 85%.



The coil subassembly can be disassembled easily using general-purpose tools.

#### Shower toilet seat

With the improved structure of the heated seat, the recyclability of the seat has surged from 0% to 90%. Accordingly, the recyclability of the entire shower toilet unit has improved from 72% to 82%.

