

Easy

One-piece boot allowing easy attachment!

Elastomer

High endurance equivalent to the original component!

Eco

Using green material that minimizes CO₂ emissions!

CV-BOOT

Easily attached, elastomer composition, eco-friendly

An eco-friendly CV-boot
that achieves a reduction in CO₂ emissions



Introduction

After the first appearance of front-wheel drive vehicles, **early boot replacement to prevent failure** started to be highly recommended. Under market conditions with such demands, split boots, which enable **a considerable reduction of maintenance costs and work hours**, were developed.

Boots are often **replaced after they get damaged**. That is the current market trend.

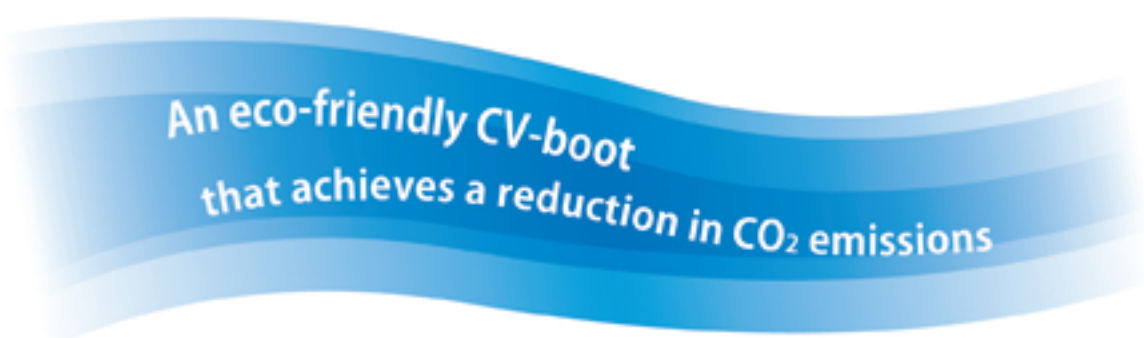
In front-wheel drive vehicles, in particular, CV-boots can be damaged more frequently because of the heavy loads applied to those components.

In such cases, it is highly **likely that the bearing is also damaged** and can cause abnormal sound and even lead to a serious accident. Therefore, it is **most important to replace CV-boots before** those things occur.

Various split-type boots have already been introduced to the market. However, most of them have some disadvantages in attaching methods, functionality and environmental aspects.

Recently, as a breakthrough development, we have produced an eco-friendly CV-boot.

Our **CV-Boot** has solved various disadvantages that conventional CV-boots have. We are introducing this excellent product to you, with the hope that you will take part in preventive actions against problems by promoting its sales.



**An eco-friendly CV-boot
that achieves a reduction in CO₂ emissions**

Features and Quality

Our CV-Boot has three excellent features as follows.



Easy, Elastomer and Eco.



CV-BOOT

Easy, Elastomer and Eco.

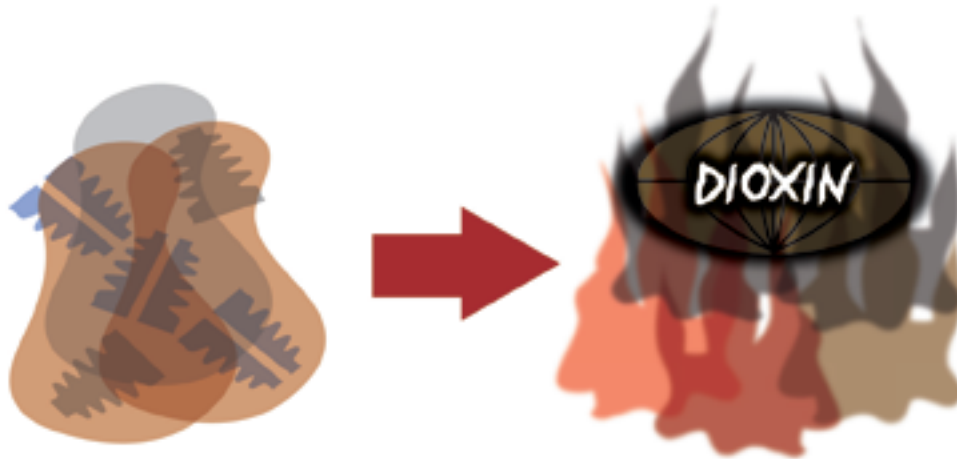
Our CV-Boot is inexpensive but achieves high quality equivalent to the original products. We believe that it is the mission of a manufacturer to provide the highest quality product with minimum costs. In addition, we conduct thorough quality control. So, please select our CV-Boot with confidence.

Materials and the Environment

Our CV-Boot employs a green material,
thermoplastic elastomer (TPE) resin.

Save the Earth!

Rubber compounds composed of polyurethane and vinyl chloride will emit dioxin harmful to the global environment when incinerated.



What is Thermoplastic Elastomer (TPE) Resin?

TPE resin is a highly-polymerized material with characteristics of both rubber and plastics. This material has not only rubber-like elasticity but also the same processability as plastics. At room temperature, it exhibits properties similar to vulcanized rubber and, at a high temperature, excellent plasticity that enables forming with a general injection molding machine. In addition, with its same high-level of recyclability as plastics, the material is expected to be utilized in an extensive range of industrial domains in the future. PELPRENE™ employed in our CV-Boot is among such thermoplastic polyester elastomers.

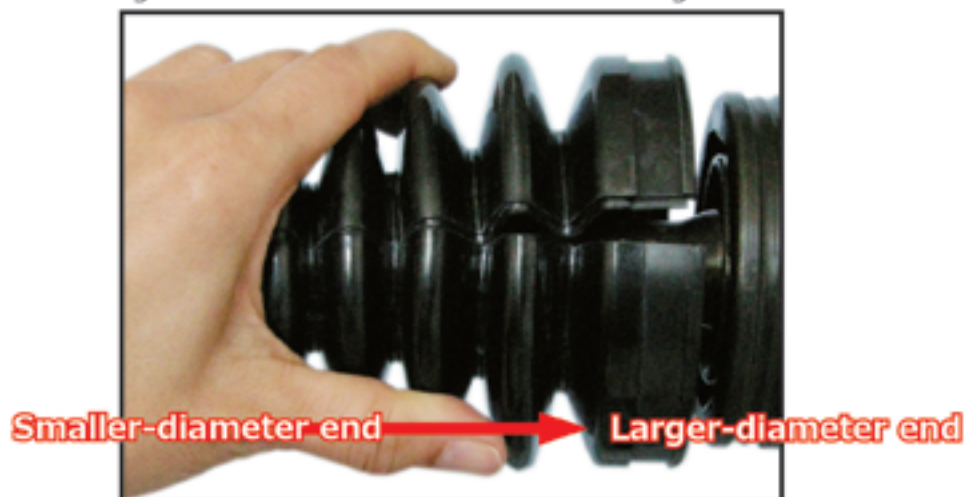
Operability

Splendid operability of our CV-Boot **(Benefits of the methods employed in our CV-Boot)**

Our CV-Boot increases work efficiency by considerably reducing the required working hours, compared with conventional boots. In addition, its simple fitting method prevents errors during attachment.

Apply adhesives and just attach it. **The replacement of our CV-Boot is that simple!**

Slide our CV-Boot on and make its ridges adhere one by one, working from the smaller-diameter ones to larger-diameter ones.



Reduction of working hours

Just align the joints and use finger pressure to stick the boot in place. The attachment is that easy.

You can replace it anywhere.

All you have to do is align the joints and attach the boot by hand. No spacious workshop is necessary.

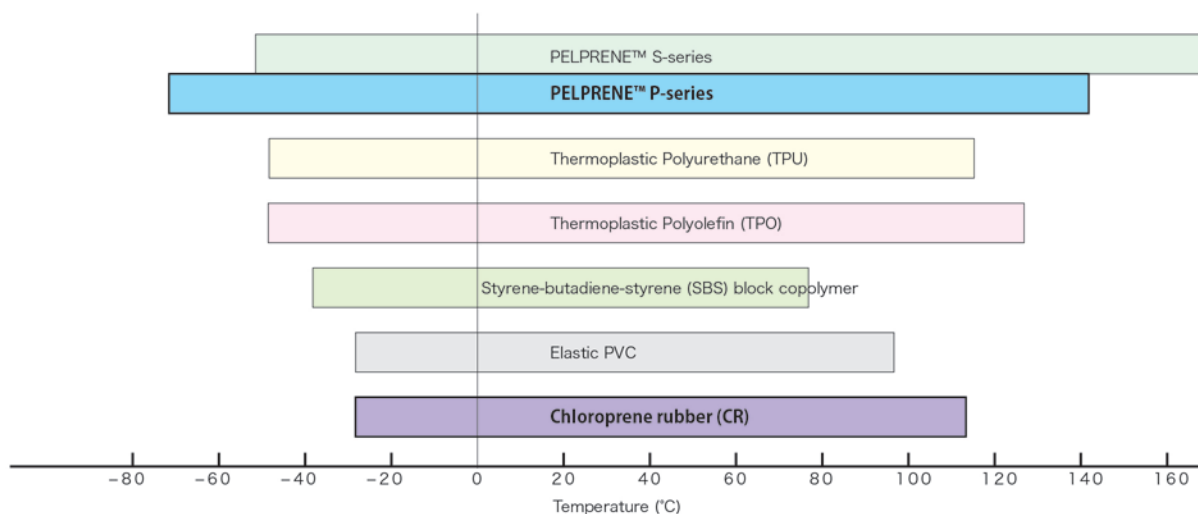
⌈Precaution⌋

Carry out this procedure in well-illuminated conditions where your hands and the joints are clearly visible.

Performance of our CV-Boot

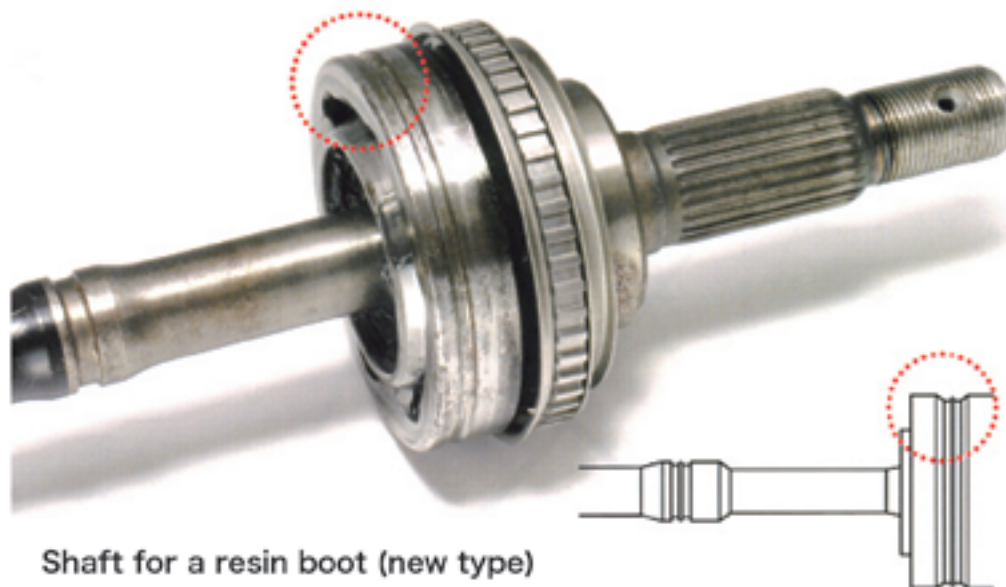
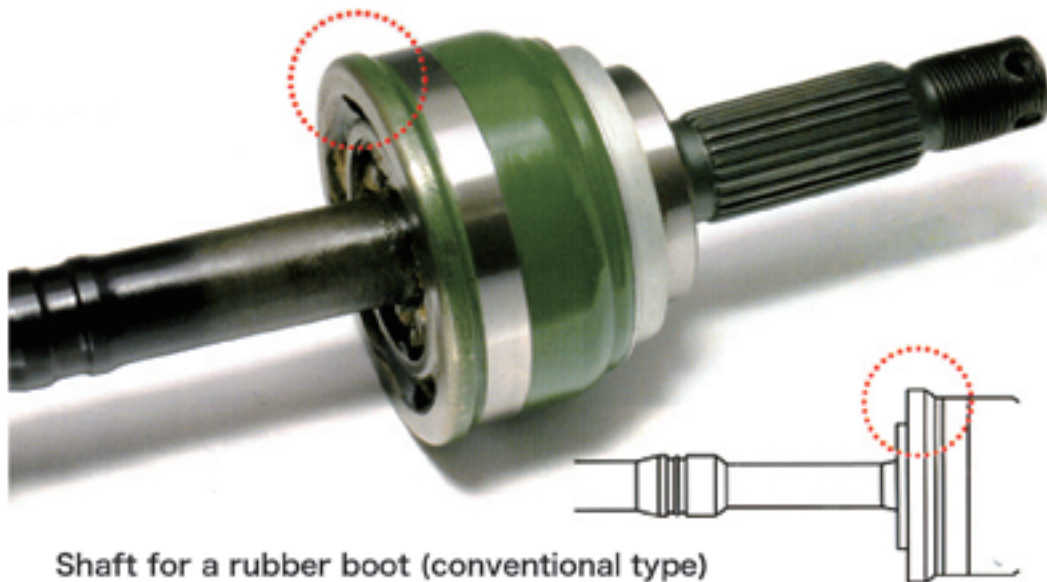
List of physical properties of material (PELPRENE™ P-type)	P-40B
Surface hardness	82
	31
Specific Gravity	1.07
50%tensile Modulus	3.4
10%Compression Modulus	2.4
Flexural Modulus	23
Tensile Strength	14
Elongation	820
Tear Strength	76
Izod Impact, notched	NB
Taber Abrasion CS-17	20
Resilience	81
Compression Set	49
Melting Point	180
Vicat Softening Point	89
Heat Deflection Temperature	—
Brittle Point	<-65
Flammability,UL-94	HB
Coefficient of Heat Expansion	20×10^{-5}
Dielectric Strength	20
Volume Resistivity	1×10^{12}
Moisture Absorption	0.56
Melt Flow Index	10A
Mold Shrinkage	0.4

Comparison of applicable temperature ranges for various elastomers



Improvement of the Housing

Most suitable for new-type shafts for resin boots!



Since around 2000, automakers have kept improving their shafts and boots to reduce costs and increase operability on assembly lines, and for environmental considerations. Accordingly, they have replaced conventional rubber boots with new TPE resin types. In addition, they have removed the lip from the periphery of shaft housings, which has made conventional rubber boots no longer useful. However, our CV-Boot can fit perfectly onto those new types of shafts and is thus the best alternative for them.



Environmentally friendly

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