

POWER TRANSMISSION

# Optidriver gearbox

## Renault Trucks offer

The Optidriver gearbox is a 12-speed robotized gearbox, fully developed and produced within the group.

In the event of a breakdown, it is available as spare part :

- In its new original version
- In a renovated version, marketed under the Reman label.

CHARACTERISTICS	BENEFITS
Perfect shapes and dimensions for synchronizer rings and engaging rings/sleeves.	<ul style="list-style-type: none"> <li>▫ Guaranteed maneuverability.</li> <li>▫ Fuel savings.</li> <li>▫ Smooth gear engagement.</li> <li>▫ Reduced risk of gear jumping.</li> </ul>
Bearing solution with elastic pin between bearing ring and housing.	<ul style="list-style-type: none"> <li>▫ No rotation of the outer bearing ring.</li> <li>▫ Extended service life of main housing or clutch housing.</li> </ul>
Clean assembly operations.	<ul style="list-style-type: none"> <li>▫ Extended bearing life.</li> <li>▫ No risk of leakage.</li> <li>▫ Clean oil between oil changes.</li> </ul>

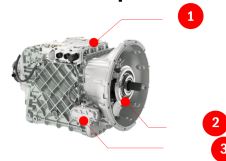
## Key arguments

### A wide range of products

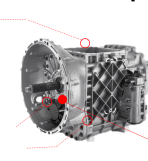
- Offer available in three Reman versions: full, basic or short
- Wider range than the competition
- Offer better suited to different types of breakdowns

The Renault Trucks Reman offer is available in three versions: full, basic delivered without control unit, clutch cylinder and solenoid valve) or short (same as basic version without the rear relay), for optimal repair quality, at the fairest price. Our competitors often limit themselves to offering a basic version of their refurbished gearbox without this being clearly specified in their commercial offer. However, a less equipped gearbox potentially means additional parts to replace and a longer reassembly time.

Version Complète



Version Basique



Version Courte



- 1 = control unit
- 2 = clutch cylinder
- 3 = clutch solenoid valve
- 4 = rear relay

### The DNA of a new original part

- Systematic integration of the latest technical developments applied in series.

Renault Trucks Reman parts benefit from the same technical developments as those made to the new genuine part.

For example, if a weakness has been detected in the clutch forks over a certain period of production, and an evolution has been put in place to correct it, this same solution will be applied to produced reman gearboxes.

Thus, all clutch forks deemed weak will be systematically scrapped to be replaced with new, more robust forks.

Several analyzes have clearly shown that our competitors do not apply these technical modifications, for the sake of profit or because they are not aware of them.

Consequently, their products retain the same weaknesses as the standard first fitted gearbox.

## Strict reuse criteria

- Use of new original components in our renovation process, where the competition calls for adaptability.
- Best guarantee of performance and durability of the Reman offer.

Reusing as many components as possible from the used gearbox is the objective of the reman process, but it is also a financial issue.

Indeed, this makes it possible to reduce the costs of renovating the gearbox by limiting the addition of new, often expensive, components.

However, this objective should not come at the expense of product quality.

However, our competitors do not hesitate to reuse some components when they would have been systematically scrapped in the Renault Trucks standard reman process, our engineers having considered that their reuse presented an excessive quality risk.

## Systematic use of new genuine components

- Using systematically new genuine components in our reman process whereas competitors can use generic non genuine components.
- Securing the best performance and durability of the Reman gearbox.

When a component cannot be reused, the renovator has two choices: using new genuine components, those with which the gearbox has been developed, tested, and approved, or using adaptable components, copying the original components.

Where our competitors systematically use adaptable, more economical components, Renault Trucks has chosen to fit only new genuine components on its Reman gearboxes.

This is the best way to allow our gearboxes to retrieve their original performance level.

## Quality packaging

- Packaging specially designed to guarantee the quality of the product and the safety of its users.
- Securing of the good functioning of the gearbox in the long term.

Designing packaging that allows the part to be properly protected during storage and transport is essential.

It is also an expensive item on which some renovators do not hesitate to save money, by replacing the stainless-steel plate protecting the base of the Renault Trucks control unit with rudimentary cardboard protection; or by removing the protective plastic cover on the product (protecting from rust).

## Customer benefits

### security

- Strict specifications, guaranteeing the same level of quality as the genuine new gearbox.
- Optimal repair reliability.

The gearboxes are remanufactured according to a rigorous industrial process, defined by our engineers, which gives them the same level of performance and durability as a new genuine gearbox.

These products benefit from upgrades according to the latest technical specifications, in order to correct any weaknesses in the original part.

Renault Trucks systematically uses new genuine components when a component in the used gearbox must be replaced. 100% of parts are bench tested before delivery.

## Serenity

- 2 year warranty (parts, labor, repair, towing\*).
- Coverage of the entire gearbox, including the most sensitive components.

*\*depending on local conditions*

Optidriver Reman gearboxes benefit from the same 2-year warranty as a new original gearbox, subject to assembly by an approved repairer (see general warranty conditions).

By choosing the complete replacement of the gearbox rather than its repair, the repairer protects himself from any risk of faulty workmanship and provides his customer with a guarantee on the entire component (including the electronic part, in the case of a complete gearbox), and not only on the replaced components.

## Economy

- Excellent value.
- Turnkey solution, available from stock, reducing downtime as much as possible.

Reman gearboxes, in their full version, are up to 50% cheaper than their new counterparts.

The basic Reman offer makes it possible to replace only what is necessary, by recovering the control unit, the solenoid valve, and the clutch slave cylinder from the old gearbox.

Likewise, the short Reman offer goes further by allowing the recovery of the rear relay.

Replacing the gearbox, rather than repairing it, minimizes truck downtime.