

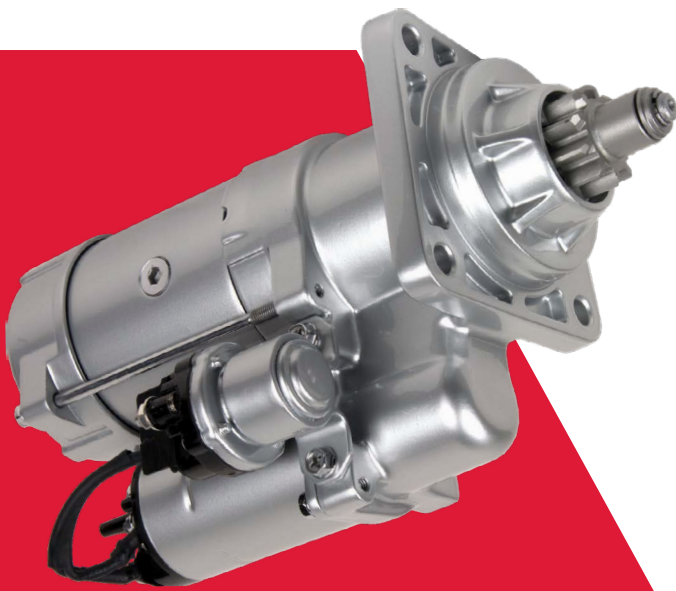


# CONNECT

JUNE 2024

DELCOREMY.COM

## 31MT™: CLEAN, EFFICIENT AND RELIABLE



This robust starter, like all genuine Delco Remy models, is the same OE quality that customers have come to trust and count on. And there are many reasons to trust the 31MT:

- **Positive shift engagement system** that provides a predictable start every time
- **Corrosion-resistant features**— stainless brush springs, brush and plated brush holder—that help eliminate failures due to corrosion
- **Zero click-no-crank performance**, which ensures reliability and a longer service life
- **Compact design** that is powered to satisfy larger engines
- **Silicon lamination armature** for better starter performance
- **Enhanced commutator and O-ring bearing** for greater starter durability

### The Delco Remy 31MT continues to prove why it's the boss for medium-duty applications.

With 10% more peak power than the competition, the 31MT is both durable and reliable for applications that have lots of starts and stops or work in a variety of stressful driving conditions.

**Delco Remy 31MT™**  
HEAVY DUTY VEHICLE STARTER

**10% MORE PEAK POWER THAN THE COMPETITION**

**FEATURES & BENEFITS**

- Developed to meet the 20047 design - of which there are more than 120 vehicle OEs worldwide - the 31MT provides an fully full coverage for the Class 6, 7 commercial vehicle line.
- This model features a positive shift engagement. In the case of lock situations, the armature will not slip over, ensuring the absence of disengagement. This benefit is also seen in cases of "click". This is well suited for high start stop vehicle applications.
- The 31MT is highly corrosion resistant due to improved brush holder plating and stainless steel springs.
- A number of design changes to the hardware, including the commutator, O-ring and bearing, as well as the lubrication have resulted in the 31MT being one of the most reliable starters.

**REAL APPLICATIONS**

- Medium vehicles
- Waste disposal vehicles
- Emergency vehicles
- Military buses
- Truck tractors
- Bus commercial vehicles
- Truck tractors
- Construction and compressor units

**SPECIFICATIONS**

Capacity	120/140/160/180
Rotation	Counter
Mounting	ISO 964-01
Pinion Data	37 Tooth, 30.2 Pitch, 37 Pitch, 30.2 Pitch
Pinion Gear Ratio	17.14:1 (30.2 Pitch)
Output	120 peak at 6.5k RPM
Weight	41 kg, 90.3 lb
Dimension	160x117.5x145
Engagement System	Positive shift engagement

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The 31MT Product Brochure and Application Cross Reference can be downloaded on our website.

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## 31MT™: CLEAN, EFFICIENT AND RELIABLE



The 31MT outperforms the competition with faster cranking performance across a wide range of temperature conditions.

**26% FASTER** at 20°C (68°F)

**23% FASTER** at -18°C (0°F)

**10% FASTER** at -29°C (-20°F)

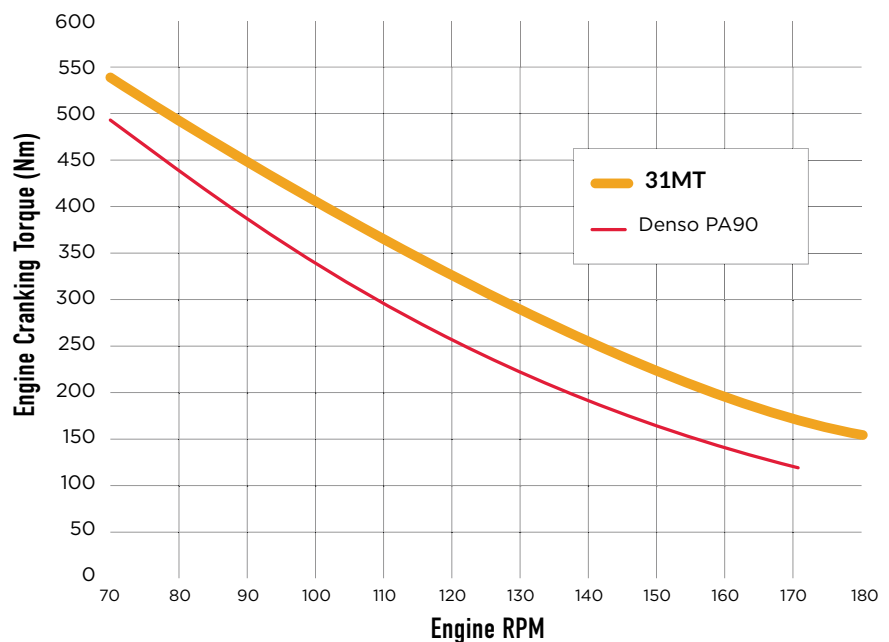
## IDEAL 31MT APPLICATIONS

Developed from our popular 29MT™ design, the 31MT provides a wide range of coverage for Class 6 & 7 commercial vehicles, including:

- Delivery vehicles
- Waste disposal vehicles
- Emergency vehicles
- Recreational vehicles
- School and shuttle buses
- Tow and haulers
- Generation sets and compressor units

## 31MT Torque vs Speed Comparison

### COMPETITIVE COMPARISON



# TECH TIP: TROUBLESHOOTING VIDEOS

A large part of being a technician is learning to problem-solve and troubleshoot issues that arise. The Delco Remy Tech Tip video series is a great resource for technical assistance.

Two of our most popular troubleshooting videos include:

## ALTERNATOR CHARGING SYSTEM TROUBLESHOOTING

Experiencing problems with your alternator charging system?

Squealing noises under the hood. Headlight bulbs that blow out repeatedly or dim. Dash voltmeter gauges out of range—either too high or too low. These are common indicators that something may be wrong with the charging system.

This video will walk you through five steps to pinpoint potential issues:



**STEP 1:** Perform a visual inspection

**STEP 2:** Inspect the batteries

**STEP 3:** Measure the voltage at the battery

**STEP 4:** Test the alternator output

**STEP 5:** Troubleshoot per the service manual

VISIT OUR  
ONLINE TECH  
TIP LIBRARY  
OR OUR  
YOUTUBE PAGE  
TO WATCH  
THESE VIDEOS.

They are great  
resources and  
training tools  
for your teams.

## DIAGNOSING STARTER CRANK PROBLEMS

While cranking problems can be frustrating, identifying and correcting the root cause does not have to be.

In this video, review the steps you need to follow to identify and then fix your cranking problem, depending on which category it falls into:



**Slow Crank:** The starter will crank; however, the engine RPM is slow to start the vehicle.

**Click No-Crank:** The solenoid clicks but the starter doesn't crank.

**No-Click No-Crank:** The solenoid doesn't click, and the starter doesn't crank.

## TROUBLESHOOTING SUPPORT THAT GOES WHERE YOU GO

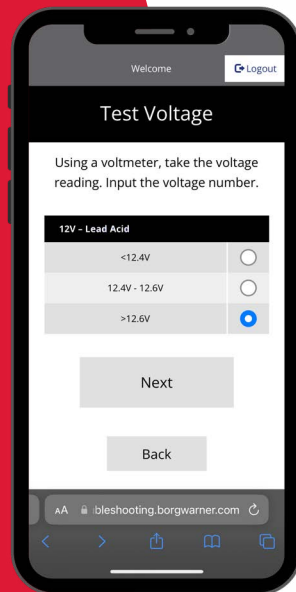
When you have a component with service issues, you need to resolve it quickly to get vehicles back on the road as soon as possible. We've got the perfect solution—one that's available to technicians 24/7. The Delco Remy Starter and Alternator Troubleshooting App is a web-based tool that guides you through the troubleshooting process for starters and alternators on commercial and off-highway vehicles. The app can be used on smartphones, tablets and computers.

### When to Use the Delco Remy Troubleshooting App

- Click-no-crank conditions
- Slow cranking
- No-click-no-crank issues
- Charging system problems
- Repeat failures
- Overcharging concerns
- Remote sense issues
- Continuously drained battery

### How to Get Started

1. Visit <https://troubleshooting.delcoremy.com> and create an account
2. Input the vehicle information before starting the diagnostic process
3. Go through the diagnostic process by following the on-screen prompts
4. Once you complete the steps, you'll receive an email with the results



## TRUSTED

We lead with integrity—in our manufacturing practices, aftermarket distribution channels and customer relationships—so you have complete confidence that our products deliver the strength, durability and longevity you're counting on.

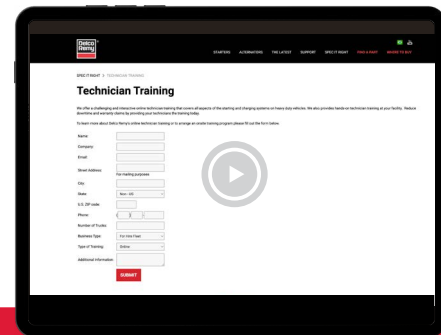
## ONLINE TRAINING: AVAILABLE WHEN YOU NEED IT

Need training for your technicians? We offer a FREE online course that covers all aspects of the starting and charging systems on heavy duty vehicles.

**Learning focus:** The technician training covers everything a technician needs to know about starting and charging systems, including:

- Applications
- Systems
- Electrical diagnostics
- Troubleshooting process

At the end of the course, technicians are equipped with the knowledge required to perform safe, consistent and efficient troubleshooting.



**MANY NATIONAL FLEET COMPANIES USE THE DELCO REMY ONLINE TECHNICIAN TRAINING AS AN ONBOARDING REQUIREMENT.**

**Time commitment:** Two hours or less

**Availability:** 24/7

**Course completion:** Participants receive a certificate of completion

**Sign up:** To learn more about Delco Remy's online technician training, complete our [online form](#).

## Onsite Training

We also provide instructor-led, hands-on technician training at your facility for fleet technicians as well as parts and service personnel. Our training helps reduce downtime and warranty claims—ultimately, keeping your trucks moving. Contact us to learn more.

**800.372.0222**

[DelcoRemyTechSupport@phinia.com](mailto:DelcoRemyTechSupport@phinia.com)

Monday – Friday | 8 a.m. – 5 p.m. EST

## REFRIGERATION | APU STARTERS & ALTERNATORS: Same Quality Product, Just Different Packaging

Aftermarket distributors and OES dealers will notice a change in our packaging for the Refrigeration and APU Starter and Alternator Program. As part of the transition away from BorgWarner, we've simplified our packaging. Products will be shipped in plain brown boxes with a Delco Remy label.

