



TRUCK TURBOCHARGER CUTAWAY EDUCATIONAL TRAINER

A1

Product number

AETTC

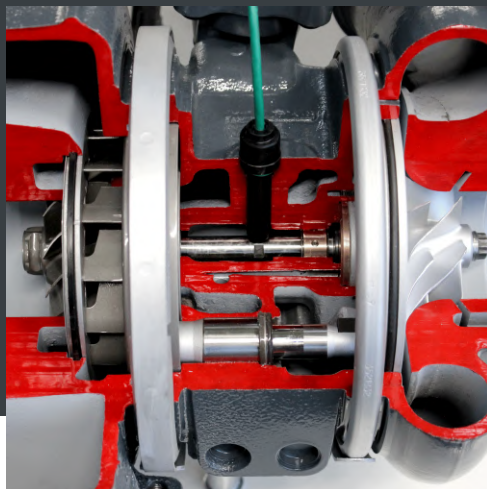


The Truck Turbocharger Cutaway Educational Trainer features a high-precision cutaway model, showcasing critical turbocharger components. The trainer reveals the turbine wheel, compressor wheel, bearing assembly, wastegate, actuator, and variable geometry turbine, all mounted on a robust base. This model is designed to provide an in-depth view of turbocharger functionality and internal mechanics, facilitating advanced automotive education and training.



Features

- Provides a clear view of the turbocharger's internal components, including the turbine and compressor wheels, bearing assembly, and wastegate.
- Includes essential parts such as the wastegate, actuator, and variable geometry turbine for comprehensive learning.
- Demonstrates the principles of boost pressure, airflow dynamics, and the impact of turbocharging on engine performance.
- Mounted on a stable base for ease of handling and integration into the classroom environment.





Value for Students

- The cutaway design allows students to observe the internal structure of a turbocharger, including the turbine and compressor wheels, bearing assembly and the intercooler. This transparency aids in understanding the operational principles and maintenance requirements of turbocharger systems.
- Learn about the functioning of a turbocharger, including how exhaust gases drive the turbine, which in turn powers the compressor to increase air intake pressure and improve engine performance. Study the principles of boost pressure, airflow dynamics, and exhaust gas recirculation.
- Gain insights into the effects of turbocharging on engine performance and fuel efficiency. Students will understand how turbochargers enhance power output, reduce turbo lag, and improve overall vehicle performance.
- Engage with detailed components and mechanisms, including the wastegate, actuator, and variable geometry turbine systems. This hands-on interaction helps solidify theoretical knowledge with practical experience.



Value for Instructors

- The cutaway model serves as a highly effective visual aid for demonstrating complex turbocharger systems. It enables instructors to illustrate internal workings and troubleshooting techniques clearly and accurately.
- Utilize the model to cover a range of topics, including turbocharger installation, maintenance, and diagnostics. The visible components facilitate the teaching of component functions and failure modes.
- The model promotes interactive learning experiences, allowing students to explore and understand the system in a controlled environment. This fosters deeper comprehension and retention of material.
- Built on a sturdy base, the trainer is designed for durability and ease of use in various educational settings, from vocational schools to universities.
- Uses OEM components for easy, safe, and realistic training that mimics real car.



Specifications

- Dimensions: 800 x 600 x 500 mm (31.50 x 23.62 x 19.69 in)
- Weight: Approx. 45 kg (100 lb)
- Product number: AETTC