



Fire + Emergency Applications



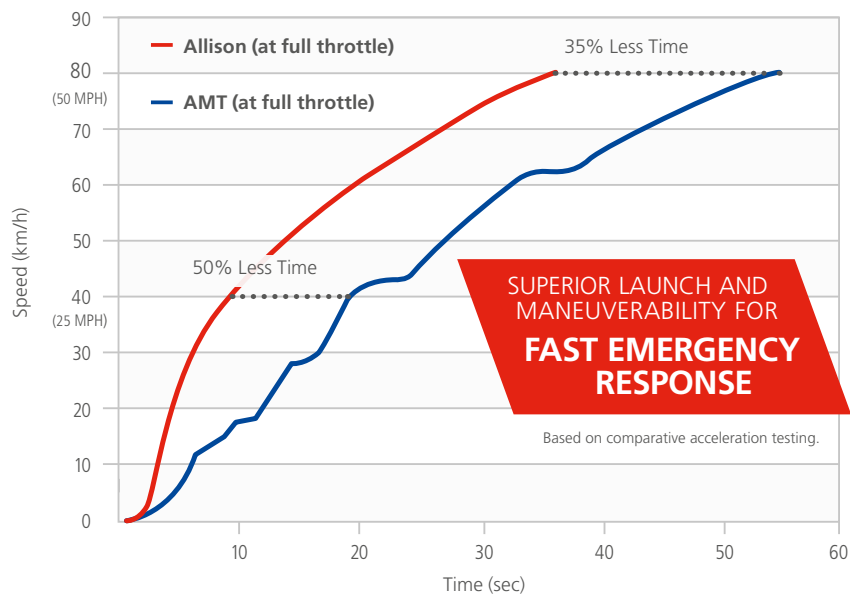
When Every  
Second Counts



# Get There Faster With an Allison Transmission

Allison fully automatic transmissions are ready in the toughest conditions. An Allison Automatic features our Continuous Power Technology™, which provides more power to the wheels, and Allison Automatics accelerate faster than manual or automated manual transmissions (AMTs), providing superior launch rates, up to 35% faster acceleration and greater maneuverability. Experience the unrivalled performance, reliability and control that Allison delivers during emergency situations.

## Allison Automatics Accelerate Faster Than a Manual or Automated Manual Transmission (AMT)



## Maximize Emergency Vehicle Performance When You Specify Allison

The chassis is only a small part of what makes a fire truck or emergency vehicle. The integration of body and pumping equipment is critical to the effectiveness of a fire truck. Including an Allison fully automatic transmission in the driveline will enable the chassis, body and pump to efficiently work together, improving uptime and performance.



**Superior Acceleration =  
Shorter Response Time =  
Reach Your Destination Faster**







Providing the most reliable and valued propulsion solutions in the world to enable our customers to get more done.

The Allison Promise

# The Most Reliable Choice for Fire + Emergency

Allison Automatics are designed for durability and low maintenance to perform in the toughest situations. Our extended service intervals keep you on the job longer, and with no mechanical clutches, there is less wear and tear on all parts of the drivetrain. Drivers get smooth, reliable power to the wheels, fewer breakdowns and more miles before scheduled maintenance.

# Improved Vehicle Control

Whether a driver is experienced or newly recruited, everyone will benefit from greater precision, more focused handling and improved comfort. Behind the wheel, drivers are more alert and in tune with the vehicle, leading to increased control and better performance under pressure.





## The Power of the Torque Converter

Allison's torque converter smoothly multiplies engine torque, delivering more power to the wheels. By multiplying the engine power, drivers get increased performance, faster acceleration and greater operational flexibility. An Allison fully automatic transmission increases power, while a manual or automated manual transmission (AMT) loses power with every shift. An Allison Automatic eliminates power interrupts so you can accomplish more, even with a smaller engine.

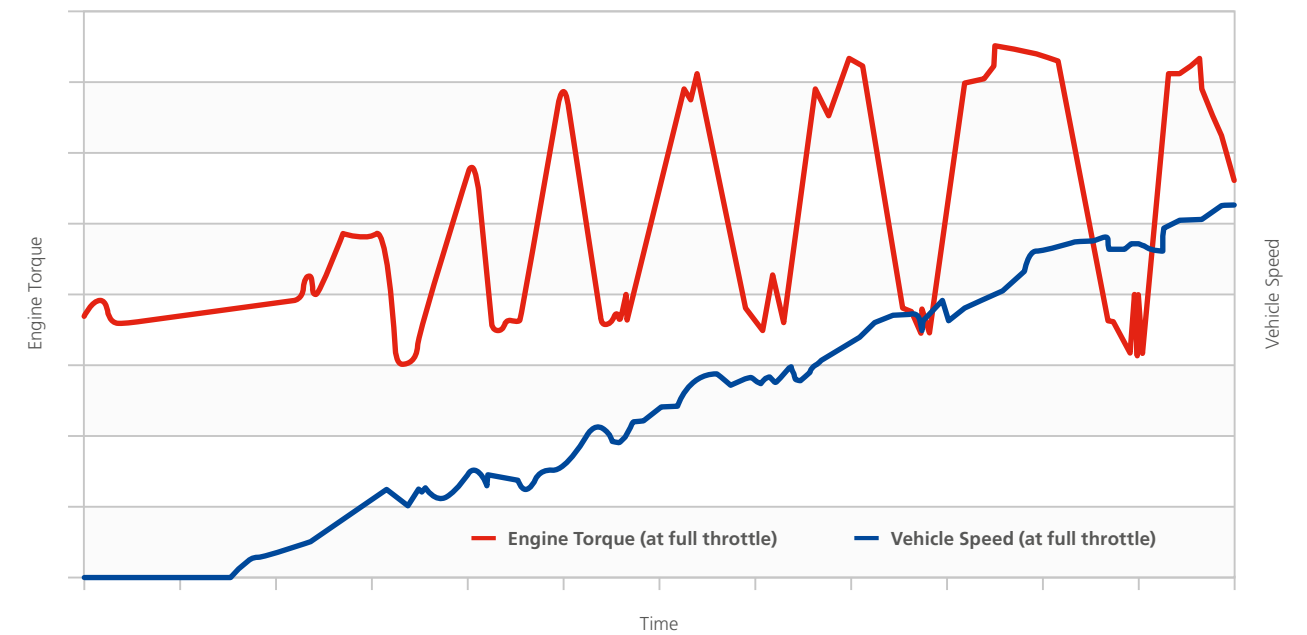
### Automatic Versus Manual and Automated Manual Transmissions

While the manual clutch pedal is gone in an automated manual transmission (AMT), a mechanical clutch still facilitates the vehicle's launch. This mechanical clutch will wear and eventually burn out and need traditional maintenance and replacement, which means a vehicle spends more time in the shop and less time on the road.

Manual and automated manual transmissions do not benefit from engine torque multiplication because engine torque must be controlled or limited to extend the life of the starting clutch, which limits vehicle performance.

Allison Automatics are unique because our torque converter experiences very little wear, and our transmissions require only periodic fluid and filter changes to maintain peak performance. When maintenance is required, an Allison is easy to service, which gets your vehicle back on the road as soon as possible.

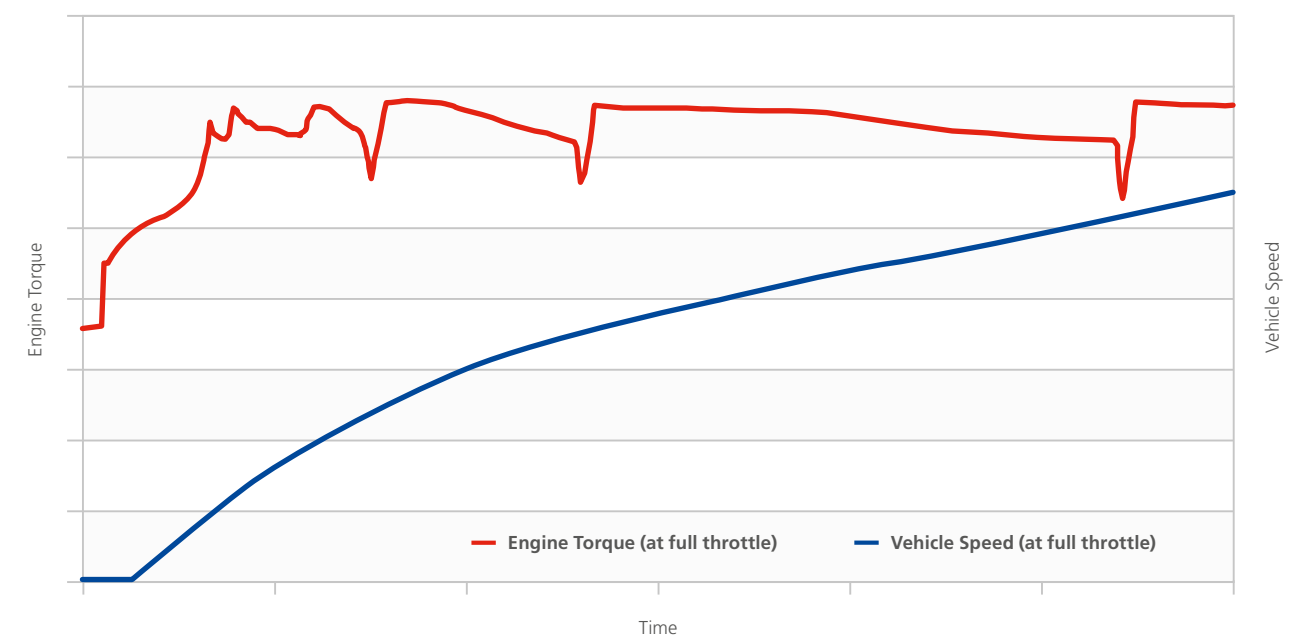
### Automated Manual Transmission (AMT) With Power Loss at Each Shift



An automated manual transmission (AMT) has significant power interruption during every shift, resulting in reduced torque and slower acceleration.

Any time a manual or AMT shifts, your vehicle loses momentum and critical seconds in an emergency situation.

### Allison Fully Automatic Transmission With Continuous Power Technology™



With an Allison fully automatic, constant power to the wheels and increased torque creates smoother, faster acceleration.

## Smart Controls Through the Transmission Control Module

Allison automatic transmissions for Fire and Emergency applications have brains in addition to brawn. Advanced electronic controls are continuously learning and adapting to road conditions and parameters. Smart controls support the engine and vehicle with the integration needed to optimize the operational features to get the job done.



### Power Take-Off (PTO) Enabled

Emergency vehicles often feature special equipment, such as a hydraulic crane arm or fire truck pumps, to execute specific work. This equipment requires a power take-off to supply a pump or hydraulic motor. The transmission control module commands how and when the PTO engages and monitors operating conditions to minimize potential damage and hazards.

### Auxiliary Function Range Inhibit

When activated, unwanted shifts out of neutral are prevented. It easily integrates with body controls to ensure that outriggers are up, cranes are stored and doors are shut before the transmission shifts from neutral.

### Prognostics

Calibrated to the vehicle's particular operating requirements, Allison prognostics monitor various operating parameters to determine and alert when service is due. This eliminates unnecessary fluid and filter changes and provides maximum transmission protection.

### Integral Retarder

The integral retarder in an Allison fully automatic transmission sets it apart from a manual or AMT. It helps the vehicle to slow down with less wear on the braking system. This results in greater control, maneuverability and optimized driving performance that will get you to your destination smoothly while minimizing brake usage.

### Fail-Safe

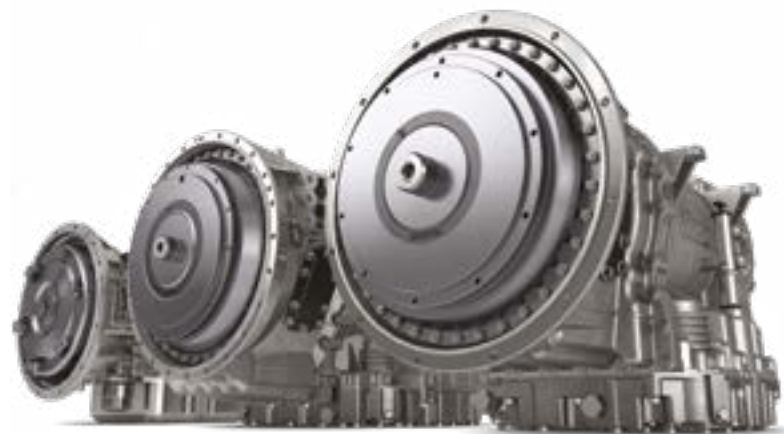
In the event of a failure, Allison's unique fail-safe controls are designed to stay in gear. This allows a vehicle to continue operation.



## Tailored for the Work You Do

Allison Automatics are designed to perform in the toughest, most stringent environments. With Allison, you can better specify your fire truck or emergency vehicle and transmission to fit the needs of your application. The result is a precise combination of power and efficiency that only Allison can deliver.

- Unmatched reliability
- Faster acceleration
- Improved maneuverability
- Less maintenance and increased uptime
- Driver-friendly operation
- Available with a Power Take-off (PTO) driven at engine speed



## Why Choose an Allison?

Our fully automatic transmissions are proven reliable and durable:

- 100 years of engineering advanced propulsion solutions
- Trusted by more than 350 OEMs worldwide
- Over 1,100 patents
- More than seven million fully automatic transmissions delivered



# A World of Support

From our headquarters in Indianapolis, Indiana, USA, to our manufacturing plants in Hungary and India, to approximately 1,600 Allison Authorized Distributors and Dealers around the globe, you are never far from the products, training, service and support you demand.

Our support starts from the moment an Allison transmission is specified. We work with you to ensure that the model and ratings fit your engine to create a tailored package of powerful performance and reliable efficiency. When you need parts or service, you can count on global access to factory-trained specialists and Allison Genuine Parts™.



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