



Coach Applications



A World of Difference



# Automated Is Not Automatic

## Transmission Definition

**Allison:** A hydraulic torque converter couples the engine to a planetary-gear transmission providing uninterrupted, continuous power shifts.

**AMT:** Automated manual transmissions use a standard manual gearbox with electrical or pneumatic clutch actuation resulting in torque interrupts and loss of power during shifts.

## Passenger Comfort

**Allison:** Allison Automatics use our torque converter to keep the transmission continuously connected to the engine's maximum available output during each shift. Our Continuous Power Technology™ delivers smoother, seamless, full-power shifts providing superior passenger comfort.

**AMT:** Automated manual transmissions require a reduction of engine throttle at each shift causing torque interrupts resulting in more frequent, interrupted shifts and increased discomfort for passengers.

## Maneuverability

**Allison:** Allison's torque converter creates an infinitely variable gear ratio allowing drivers to easily manage power to the wheels. Using just the accelerator pedal, drivers can control vehicle speed to smoothly creep with precision and maneuver on city streets, around traffic and in difficult parking conditions. Allison Automatics provide the added benefit of protecting the driveline from shock, reducing vehicle wear and tear.

**AMT:** Without a torque converter, automated manual transmissions cannot deliver power to the wheels smoothly, creating a difficult environment to control the vehicle in challenging driving conditions. AMTs attempt to mimic the inherent capabilities of an Allison Automatic by promoting additional features such as Urge to Move, Power Launch, Hill Assist and Blended Pedal.

## Increased Driver Comfort

**Allison:** With more control at their fingertips, drivers can be more focused and in tune with the vehicle. Experienced drivers will benefit from more precise handling and improved comfort.

**AMT:** Automated manual transmissions add automatic-like features that attempt to mimic what an Allison transmission does inherently and automatically. AMT torque interrupts require more driver attention during vehicle maneuvers, distracting driver focus.

## Reduced Maintenance

**Allison:** Allison Automatics are unique because our torque converter experiences very little wear. Our extended service intervals reduce maintenance costs and with no mechanical clutches, the lifetime of the drivetrain is extended.

**AMT:** While the manual clutch pedal is removed on an automated manual transmission, a mechanical clutch still facilitates the vehicle's launch. An AMT's mechanical clutch will wear and eventually burn out and need traditional maintenance and replacement.

## Shift to a Smoother Ride

Allison transmissions are driving improved fuel economies and enhanced operational outcomes in coaches across the globe. Our fully automatic transmission reduces driver distraction and removes cumbersome shifting so the operator can focus on handling and maneuvering the coach, especially in heavy traffic situations and on narrow roadways.

Another benefit? Our torque converter generates smooth, seamless full-power shifts that result in higher coach efficiency. This translates into higher average speeds and shorter route times to meet schedules. Discover additional benefits when you shift to a smoother, more efficient ride with an Allison fully automatic transmission.

## A Roadmap for Fuel Savings

Add in FuelSense® 2.0 with DynActive® Shifting and you've got a powerhouse propulsion system that's more economical, reduces vehicle wear and tear and is better for the environment. FuelSense 2.0 uses a set of software enhancements to provide an infinitely variable combination of shift points. FuelSense 2.0 improves fuel economy while maintaining the long-established Allison advantages of superior performance, industry-leading reliability and a low total cost of ownership.

Our Allison-equipped coaches deliver high performance and excellent shifting quality, providing our drivers and customers with the smoothest ride. Furthermore, their fuel economy is even better than our coaches with an AMT!

– Conny Svensson, Purchaser, Netbuss, Sweden



# 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™.



One Allison Way  
Indianapolis, Indiana USA 46222-3271

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