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Allison Transmissions

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**Automatic
Models
MT 643
up to 250 nhp
(186 kW)**

SPECIFICATIONS

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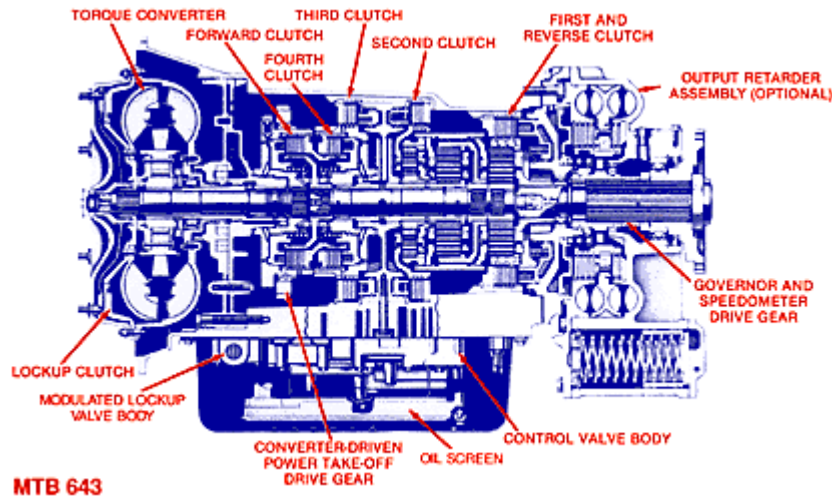
General rating+

Net input power (max).....250 hp (186 kW)
 Input speed range.....2000 - 4000 rpm
 Net input torque (max).....640 lb ft (868 N?m)
 Vehicle weight (GVW or GCW).....Up to 73,280 lbs (33,239 kg)

Mounting

Direct.....SAE 2 flywheel housing with flex plate drive

Torque converter










Design Features & Benefits [\(go to top\)](#)

- ⊕ Designed for use with large bore gasoline and mid-range diesel engines up to 186 kW. Four forward ranges and one reverse. This transmission model is used in school buses, P&D, emergency vehicles and motorhomes.
- ⊕ Clutches are multidisc design, oil-cooled, hydraulically-operated, and self-cleaning to reduce normal wear. Spur-type planetary gears are designed for strength, quietness and long life.
- ⊕ Automatic lockup clutch, throttle-modulated for maximized fuel economy and engine braking. Automatic upshifting and downshifting within each drive range. Inhibitors prevent downshifts or shifts into reverse unless vehicle speed is within an acceptable range.
- ⊕ The Allison three-element torque converter provides smooth, shock-free operation. A choice of converters permits matching the MT 643 to a wide variety of engine applications.
- ⊕ Converter-driven power take-off drive on right side of transmission (as viewed from front) is standard. Design is SAE 6-bolt.
- ⊕ Provisions for neutral start switch, reverse signal switch, SAE regular-duty throttle cable, speedometer drive, and parking brake.
- ⊕ 5.1 inch oil pan is standard. Optional 4.3 and 7.1 inch pans are available when low clearance or heavy duty operation dictates their use.

Typical Applications [\(go to top\)](#)

- ⊕ Shorthaul Tractor
- ⊕ P&D Truck
- ⊕ Fire Truck
- ⊕ Utility Truck
- ⊕ Stake Truck
- ⊕ Dump Truck
- ⊕ Flat Bed Truck
- ⊕ Motorhome

-  Beverage Truck
 -  School Bus
 -  Refrigerated Van
 -  Refuse Truck
 -  Tanker Truck
 -  Wrecker
 -  Other applications are available.
-

SCAAN Specification Assistance ([go to top](#))

To be sure that you get the most efficient engine/transmission package for your operation with your preferred vehicle, your local Allison Transmission distributor offers

SCAAN stands for System for Computerized Analysis and helps take 10% out of vehicle-buying decisions. What's more, it does so quickly and accurately through terminals located at all distributor outlets. This means rapid analysis of your vehicle's spot.

SCAAN can compute a wide variety of vehicle performance parameters, including acceleration and retardation. SCAAN will also check your powertrain specifications against Allison Transmission vocational experience to insure satisfactory vehicle performance.

SCAAN is user friendly. Interactive operation allows alternate vehicle configurations to be evaluated to insure optimized powertrain selection.



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