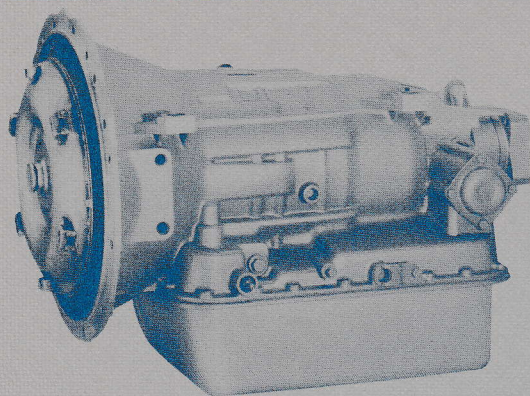


Allison Transmissions



AT 545

Automatic Model AT 545 up to 235 nhp (175 kW)

DAL-TRANS PTY. LTD.

15 VERRELL STREET,
WETHERILL PARK 2164

PH. 609-1455. TELEX: AA 72408

P.O. BOX 314, SMITHFIELD 2164

Specifications

AT 545

General rating+

Net input power (max)	235 nhp (175 kW)
Input speed range	2400-3200 rpm (diesel); 3200-4000 rpm (gasoline)
Net input torque (max)	445 lb ft (603 N•m)
Vehicle weight (GVW or GCW)	10,000 to 30,000 lbs (4,500 to 13,600 kg)

Mounting

Engine	SAE 3 automotive flywheel housing with flex plate drive
Vehicle	One vertical mounting pad each side

Torque converter

Type	Single-stage, 3-element, multiphase
Stall torque ratio	TC 230-2.60 (diesel); TC 270-1.96 (gasoline); TC 275-1.96 (diesel); TC 290-1.72 (diesel)

Gearing

Type	Constant mesh, spur type, planetary
Range	Ratios*:
First	3.45:1
Second	2.25:1
Third	1.41:1
Fourth	1.00:1
Reverse	5.02:1

* Gear ratio does not include torque converter ratio.

Power takeoff provision

Converter driven (SAE 6-bolt Regular Duty PTO)	
Location	Right side (viewed from rear)
Drive gear ratio	All ranges--1.00 x turbine speed
Drive gear rating	200 lb ft (270 N.m) continuous; 250 lb ft (340 N•m) intermittent

Oil system

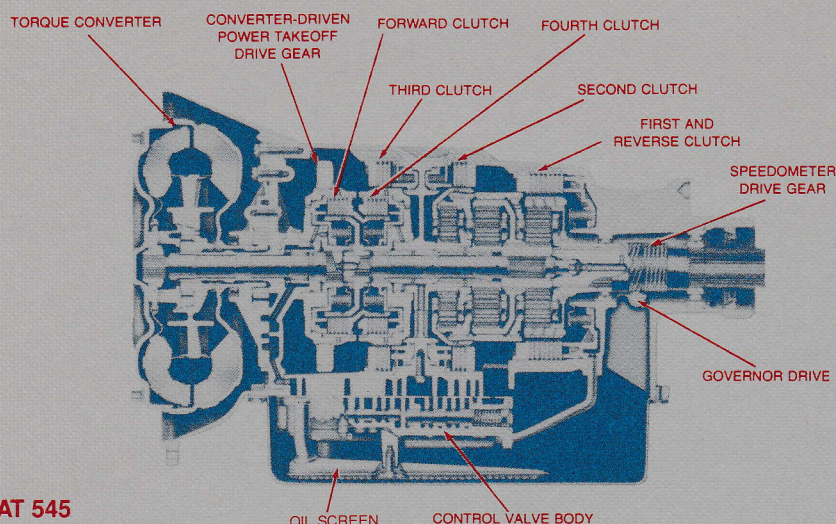
Oil Type	Dexron II®, C 4
Capacity (excluding external circuit)	20 U.S. qts (18.9 liters) (w/std. oil pan)
Filter	Full flow, replaceable element, remote mounted
Cooler	Remote mounted
(Filter and cooler not furnished on transmission assembly but are supplied by vehicle manufacturer.)	

Size

Length	27.2 in (691 mm)
Width	20.7 in (526 mm)
Height	18.9 in (480 mm)
Weight (dry)	289 lbs (131 kg)

+ Vocational ratings may vary by vocation. Consult Allison Transmission Sales for specific information.

Transmission Cross-section



AT 545

Design Features & Benefits

- Designed for use with diesel and gasoline engines up to 235 nhp (175 kW). Four forward ranges and one reverse. This transmission model is best suited for school buses, fuel delivery, beverage delivery, general P&D, limited transit coach and light-duty dump truck applications.
- Clutches are multidisc design, oil-cooled, hydraulically-operated, and self-compensating for normal wear. Spur-type planetary gears are designed for strength, quietness, and long life.
- Automatic upshifting and downshifting within each drive range. Built-in 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 AT 545 to a wide variety of engines.
- Converter-driven power take-off drive on right side of transmission (as viewed from the rear) is standard. Design is SAE 6-bolt.
- Provisions for neutral start switch, reverse signal switch, SAE regular-duty thread-type speedometer drive, electronic speedometer drive, and parking brake.
- 5.3 inch oil pan is standard. Optional shallow pan is available when ground clearance dictates its use.

Typical Applications*



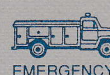
STEPVAN



TANKER TRUCK



P & D TRUCK



EMERGENCY VEHICLE



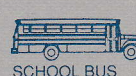
LEASE/RENTAL VEHICLE



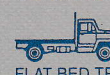
REFRIGERATED VAN



MOTOR HOME



SCHOOL BUS



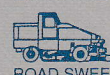
FLAT BED TRUCK



SMALL WRECKER



UTILITY TRUCK



ROAD SWEEPER

NOTE: The AT 545 is not approved for use in garbage packers over 9 cubic yards or trucks with front mounted snow plows.

* Other applications are available. Consult your local distributor for details.

SCAAN Specification Assistance.

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

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

SCAAN can compute a wide variety of vehicle performance parameters: including gradeability, 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 quickly evaluated to insure optimized powertrain selection.



Allison Transmission

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