

## T525 (R) specification

For Applications with engines up to 410 kW (550 hp) gross input power and up to 2305 N•m gross input torque.

### RATINGS

	Gross Input Torque N•m	Gross Input Power <sup>(1)</sup> kW (hp)	GVW kg	Vocations
Tour Coach	2305	410 (550)	Unlimited	Tour Coach

(1). Gross Power rating as defined by ISO 1585 or SAE J1995.

### DRIVETRAIN INTERFACES

Acceptable full-load engine governed speed	1700 – 2300 rpm
Acceptable engine idle speed range (with transmission in Drive)	500 – 800 rpm

### MOUNTING

To Engine	SAE No.1
In Chassis	Rear support available (required for some installations)

### TORQUE CONVERTER

Type One stage, three element, polyphase.  
Includes standard integral damper which is operational in lockup.

Model	Stall Torque Ratio
TC-521	2.42
TC-531	2.34
TC-541	1.90
TC-551	1.79
TC-561	1.58

### MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication)

Range	
First	3.51 : 1
Second	1.91 : 1
Third	1.43 : 1
Fourth	1.00 : 1
Fifth	0.74 : 1
Sixth	0.65 : 1
Reverse	-4.80 : 1

### CONTROL SYSTEM

<b>Description</b>	Allison 5th Generation Electronic Controls with closed loop adaptive shifts
<b>Shift Sequences</b>	[C = Converter mode (lockup clutch disengaged); L = Lockup mode (lockup clutch engaged)] Tour Coach Standard: 1C-[1L]-2C-2L-3L-4L-5L Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L  TCM must be calibrated for "1L" option. Second-gear-start calibrations are not available for all vehicle applications.
<b>Driver-to-Transmission Interface</b>	Cab-mounted shift selector, pushbutton or lever with two-digit display (range selected and range attained)
<b>Communication Protocol - Engine/Vehicle Systems Interface</b>	SAE J1939, IESCAN, PT-CAN

**PHYSICAL DESCRIPTION**

	Installation Length*	Dry Weight	Depth below transmission centerline
Basic Model	795 mm	377 kg	338 mm
With Retarder	795 mm	411 kg	338 mm

\*Approximate length from engine housing to output flange (depending on output flange type)

**OUTPUT RETARDER PROVISION (OPTION)**

Type	Integral, hydraulic	
	Torque	Power
Low	1763 N•m	373 kW (500 hp)
Medium	2170 N•m	447 kW (600 hp)
High	2710 N•m	447 kW (600 hp)

**OIL SYSTEM**

Allison approved fluids: TES 295 and TES 389	
Capacity, w/o PTO, excluding external circuits	38 litres
Main circuit oil filter	Replaceable element, integral
Cooler circuit oil filter	Replaceable element, integral
Electronic oil level sensor (OLS)	Standard

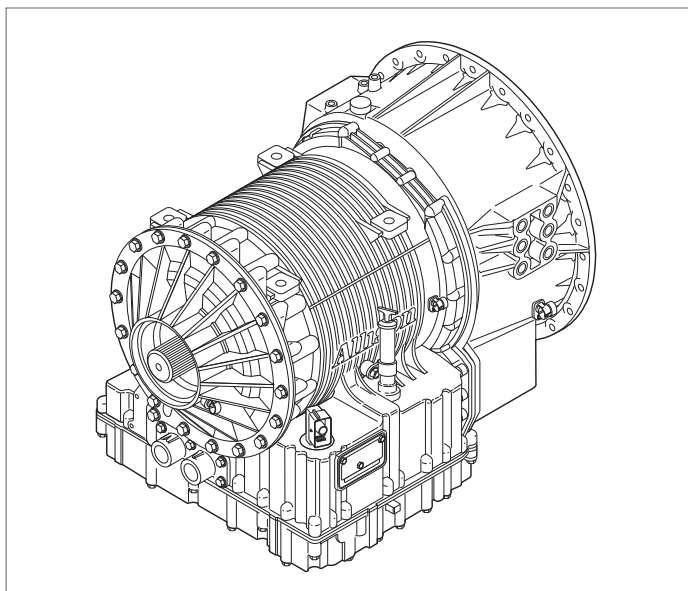
**SPEEDOMETER PROVISION**

Description	Non-zero-crossing square wave
	8, 16 or 40 pulses per revolution of transmission output shaft
Location	Electronic output from TCM

**TACHOGRAPH PROVISION**

Tone wheel	4 or 6-tooth
Mounting	M18 x 1.5 metric thread
Location	Transmission rear cover or retarder housing

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