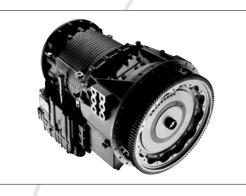


T525 (R) specification

For Applications with engines up to 410 kW (550 hp) gross input to 2305 N•m (1700 lb-ft) gross input torque.



GVW kg (lbs)

Unlimited

Vocations

Tour Coach

1700 – 2300 rpm

500 – 800 rpm

| RATINGS | | | |
|--------------------------|-----------------------------------|---|------------------------------|
| | Input Torque Gross N∙m (lb-ft) | Input Power Gross ⁽¹⁾ Kw (hp) | Turbine Torque N∙m (lb-fi |
| Tour Coach | 2305 (1700) | 410 (550) | 3322 (2450 |
| DRIVETRAIN INTER | | | standard deductions. |
| DRIVETRAIN INTER | FACES | | |
| Acceptable full-load eng | FACES | | |
| Acceptable full-load eng | FACES gine governed speed | | |

In Chassis

SAE No.1

Rear support available (required for some installations)

Turbine Torque Net⁽²⁾

N•m (lb-ft)

3322 (2450)

| TORQUE CONVERTER | | | MECHANICAL RATIOS (Gear ratios do not include torque converter multiplication) | | |
|------------------|----------------------|--|--|---------|-----------|
| Туре | Includes standard ir | One stage, three element, polyphase. ntegral damper which is operational in lockup. | Range | | |
| | Model | Stall Torque Ratio | | First | 3.51 : 1 |
| | TC-521 | 2.42 | | Second | 1.91 : 1 |
| | TC-531 | 2.34 | | Third | 1.43 : 1 |
| | TC-541 | 1.90 | | Fourth | 1.00 : 1 |
| | TC-551 | 1.79 | | Fifth | 0.74 : 1 |
| | TC-561 | 1.58 | | Sixth | 0.65 : 1 |
| | | | | Reverse | -4.80 : 1 |

CONTROL SYSTEM

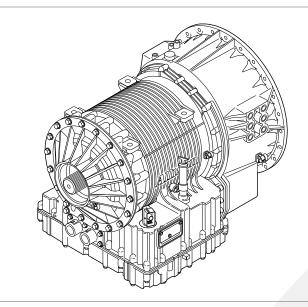
| Description | Allison 4th Generation Electronic Controls with closed loop adaptive shifts | | | |
|---|--|--|--|--|
| Shift Sequences | [C = Converter mode (lockup clutch disengaged); L = Lockup mode (lockup clutch engaged)] | | | |
| | Tour Coach | | | |
| | Standard: 1C-[1L]-2C-2L-3L-4L-5L | | | |
| 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. | | | | |
| Driver-to-Transmission Interface Cab-mounted shift selector, pushbutton or lever with two-digit display (range selected and range attained) | | | | |

Communication Protocol - Engine/Vehicle Systems Interface SAE J1939, SAE J1587, ISO 9141, IESCAN

| PHYSICAL DESCRIPTION | N | | |
|----------------------|----------------------|------------------|-------------------------------------|
| | Installation Length* | Dry Weight | Depth below transmission centerline |
| Basic Model | 793 mm (31.2 in) | 377 kg (831 lbs) | 375 mm (14.8 in) |
| With Retarder | 793 mm (31.2 in) | 411 kg (906 lbs) | 375 mm (14.8 in) |

| OUTPUT RE | TARDER PROVISION (OPTI | ON) | OIL SYSTEM | | | |
|--|-------------------------|-----------------|------------------------------------|--|---|--|
| Туре | Integral, hydraulic All | | | Allison approved fluids: TES 295 and TES 389 | | |
| | Capacity | | Capacity, w/o P | TO, excluding external circuits | 38 litres (40 quarts) | |
| | Torque | Power | Main circuit oil | filter Replac | ceable element, integral | |
| Low | 1763 N∙m (1300 lb-ft) | 373 kW (500 hp) | Cooler circuit o | il filter Replac | ceable element, integral | |
| Medium | 2170 N•m (1600 lb-ft) | 447 kW (600 hp) | Electronic oil le | vel sensor (OLS) | Standard | |
| High | 2710 N∙m (2000 lb-ft) | 447 kW (600 hp) | | | | |
| SPEEDOMETER PROVISION | | | TACHOGRAPH PROVISION | | | |
| DescriptionNon-zero-crossing square wave8, 16 or 40 pulses per revolution of transmission output shaftLocationElectronic output from TCM | | | Tone wheel Mounting Location | | 4 or 6-tooth A18 x 1.5 metric thread over or retarder housing | |

T525



T525 (R)

