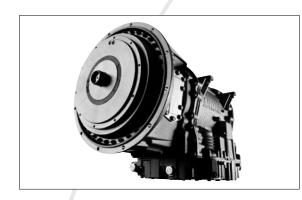


# T350 (R) specification

For Applications with engines up to 242 kW (325 hp) gross input power and up to 1350 N•m (996 lb-ft) gross input torque.



RATINGS					
	Input Torque Gross N•m (lb-ft)	Input Power Gross <sup>(1)</sup> Kw (hp)	Turbine Torque Net <sup>(2)</sup> N•m (lb-ft)	GVW kg (lbs)	Vocations
City Bus	1254 (925)	224 (300)	1857 (1370)	29,000 (62,830)	City Bus
Tour Coach	1350 (996)	242 (325)	2030 (1497)	27,000 (57,320)	Tour Coach

(1). Gross Power rating as defined by ISO 1585 or SAE J1995. (2). Turbine Torque limit based on iSCAAN standard deductions.

VFTR.		

Acceptable full-load engine governed speed	2000 – 2800 rpm
Acceptable engine idle speed range (with transmission in Drive)	500 – 800 rpm
Maximum output shaft speed at 105 km/hr (65 mi/hr) - retarder-equipped models only	3600 rpm

### **MOUNTING**

To Engine	SAE No.2
In Chassis	Rear support available (required for some installations)

# **TORQUE CONVERTER**

Туре	One stage, three element, polyphase. Includes standard integral damper which is operational in lockup.		
	Model	Stall Torque Ratio	
	TC-411	2.71	
	TC-413	2.44	
	TC-415	2.35	
	TC-417	2.20	
	TC-418	1.98	
	TC-419	2.02	
	TC-421	1.77	

ange		
	First	3.49 : 1
	Second	1.86 : 1
	Third	1.41 : 1
	Fourth	1.00 : 1
	Fifth	0.75 : 1
	Sixth	0.65 : 1
	Reverse	-5.03 : 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)]

ty Bus Tour Coach

 Standard: 1C-[1L]-2C-2L-3L-4L-5L
 Standard: 1C-[1L]-2C-2L-3L-4L-5L

 Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L
 Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L

Optional: 1C-[1L]-2C-2L-3L-4L

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 Depth** below transmission centerline With Deep Oil Sump (Optional) With Shallow Oil Sump (Standard) Installation Length\* **Dry Weight Basic Model** 740 mm (29 in) 243 kg (535 lbs) 283 mm (11.4 in) 328 mm (12.9 in) With Retarder 740 mm (29 in) 289 kg (615 lbs) 283 mm (11.4 in) 328 mm (12.9 in)

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

# **OUTPUT RETARDER PROVISION (OPTION)**

Type Integral, hydraulic

	Capacity		
	Torque	Power	
Low	1490 N•m (1100 lb-ft)	298 kW (400 hp)	
Medium	1763 N•m (1300 lb-ft)	373 kW (500 hp)	
	1763 N•III (1300 Ib-It)	373 KW (300 Hp)	

OIL SYSTEM			
Allison approved fluids: TES 295 and TES 389			
Capacity, excluding external circuits			
With Deep Oil Sump	27 litres (29 quarts)		
With Shallow Oil Sump	25 litres (26 quarts)		
Main circuit oil filter	Replaceable element, integral		
Cooler circuit oil filter	Replaceable element, integral		
Electronic oil level sensor (OLS)	Standard		

### **SPEEDOMETER PROVISION**

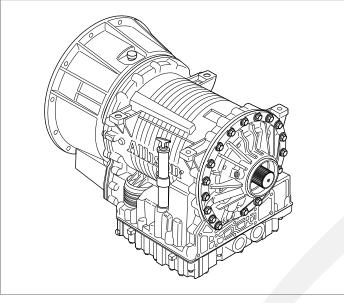
Description Non-zero-crossing square wave 8, 16 or 40 pulses per revolution of transmission output shaft Electronic output from TCM

### **TACHOGRAPH PROVISION**

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

T350





# T350 (R)

