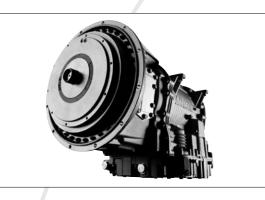


## T310 (R) specification

For Applications with engines up to 205 kW (275 hp) gross input 1100 N•m (813 lb-ft) gross input torque.

Input Torque Gross



GVW kg (lbs)

Vocations

	For Applications v power and up to '		
<b>T</b> 31	RATINGS		
0			
	City Bus		
R) s	Tour Coach		
	(1). Gross Power rating a		
þe	DRIVETRAIN IN		
Č	Acceptable full-load		
<b>-</b>	Acceptable engine		
<u> </u>	Maximum output s		
ati	MOUNTING		
<u> </u>	To Engine		
	In Chassis		

	N∙m (lb-ft)	Kw (hp)	N∙m (lb-ft)		
City Bus	1100 (813)	205 (275)	1857 (1370)	28,500 (62,830)	City Bus
Tour Coach	1100 (813)	205 (275)	2030 (1497)	26,000 (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.					
DRIVETRAIN INTERFACES					
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			only		3600 rpm

Input Power Gross<sup>(1)</sup>

Turbine Torque Net<sup>(2)</sup>

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

TORQUE CONVERTER		MECHAN	IICAL RATIOS (Gear ratio	s do not include torque converter multiplication)	
Туре	Includes standard	One stage, three element, polyphase. integral damper which is operational in lockup.	Range		
	Model	Stall Torque Ratio		First	3.49 : 1
	TC-411	2.71		Second	1.86 : 1
	TC-413	2.44		Third	1.41 : 1
	TC-415	2.35		Fourth	1.00 : 1
	TC-417	2.20		Fifth	0.75 : 1
	TC-418	1.98		Sixth	0.65 : 1
	TC-419	2.02		Reverse	-5.03 : 1
	TC-421	1.77			

## **CONTROL SYSTEM**

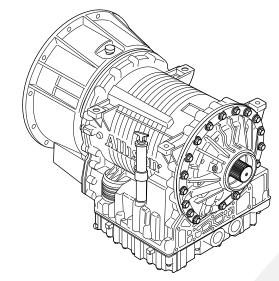
Description Allison 4th Generation Electronic Controls with closed loop adaptive shifts				
Shift Sequences	[C = Converter mode (lockup clutch disengaged); L = Lockup mode (lockup clutch engaged)]			
	City Bus	Tour Coach		
	Standard: 1C-[1L]-2C-2L-3L-4L-5L	Standard: 1C-[1L]-2C-2L-3L-4L-5L		
	Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L	Optional: 1C-[1L]-2C-2L-3L-4L-5L-6L		
	Optional: 1C-[1L]-2C-2L-3L-4L	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					
	Installation Length*	Dry Weight	· · · · · · · · · · · · · · · · · · ·		
			With Deep Oil Sump (Optional)	With Shallow Oil Sump (Standard)	
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 hous	ing to output flange (depending on ou	itnut flange type)			

flange (depending on output flange type)

OUTPUT R	ETARDER PROVISION (OPTI	ON)	OIL SYSTEM	
Type Integral, hydraulic		Allison approved fluids: TES 295 and TES 389		
Capacity		Capacity, excluding exter	nal circuits	
	Torque	Power	With Deep Oil Sur	mp 27 litres (29 quarts)
Low	1490 N∙m (1100 lb-ft)	298 kW (400 hp)	With Shallow Oil	Sump 25 litres (26 quarts)
Medium	1763 N∙m (1300 lb-ft)	373 kW (500 hp)	Main circuit oil filter	Replaceable element, integral
			Cooler circuit oil filter	Replaceable element, integral
			Electronic oil level sensor	(OLS) Standard
SPEEDOMETER PROVISION		TACHOGRAPH PROVI	SION	
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 M18 x 1.5 metric thread Transmission rear cover or retarder housing	

T310



T310 (R)

