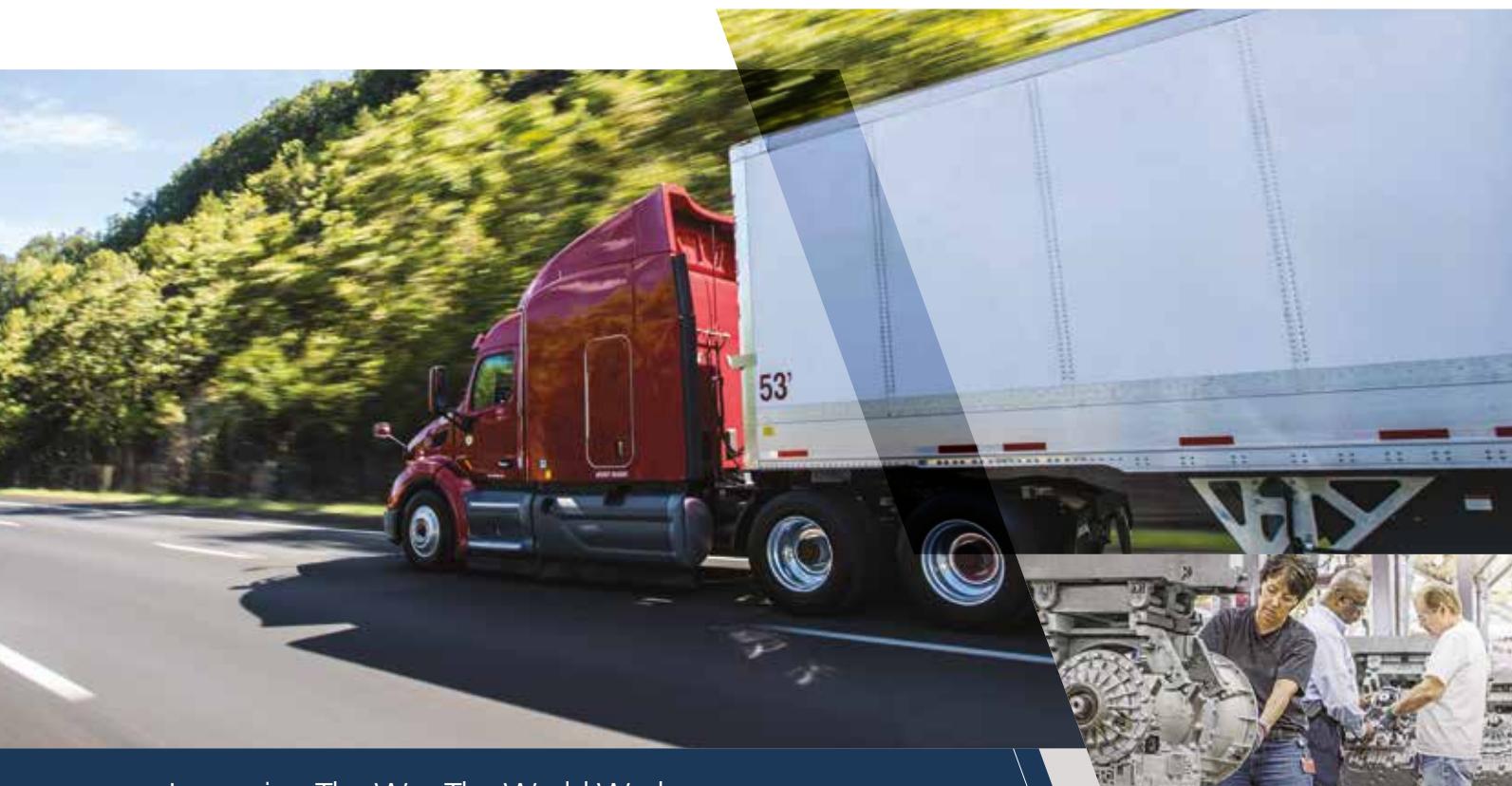


Allison 5th Gen

Vocational Model Guide 2017



Improving The Way The World Works

 **Allison**
Transmission®

ALLISON TRANSMISSION VOCATIONAL MODEL GUIDE

Allison Vocational Models offer tailored vocational features, advantages and benefits to better meet the individual needs of our customers.

FUELSENSE® 2.0 with DynActive™ Shifting

TRACTOR SERIES™

The Allison TC10® is engineered specifically for Class 8 tractor applications. The TC10 maximizes drivetrain efficiency while achieving and maintaining highway cruising speeds to save you time and money.

HIGHWAY SERIES™

Allison Highway Series™ automatic transmissions are designed to meet all the horsepower needs of strictly on-highway vehicles that do not require Power Take-Off (PTO) operation.

MOTORHOME SERIES™

Allison Motorhome Series™ automatic transmissions are designed to provide enhanced performance and exceptional value to the motorhome market.

BUS SERIES™

Allison Bus Series™ automatic transmissions are ideally suited for Federal Transit Authority (FTA) funded transit properties, FTA-like transit properties and tour coaches exceeding 33,000 lbs GVW.

EMERGENCY VEHICLE SERIES™

Allison Emergency Vehicle Series™ offers a complete family of automatic transmissions to meet the special needs of fire and emergency vehicles.

FuelSense® is the next generation in fuel-saving technology from Allison Transmission. It is a unique set of software and electronic controls that improve fuel utilization.

ENGINE hp (kW)	TORQUE lb-ft (N•m)
600 (447)	1700–1850 (2305–2508)
GVW lbs (kg)	80,000–110,000 (36,288–49,895)

ENGINE hp (kW)	TORQUE lb-ft (N•m)
165–565 (123–421)	420–1850 (569–2508)
GVW lbs (kg)	14,000–unlimited (6,350–unlimited)

ENGINE hp (kW)	TORQUE lb-ft (N•m)
165–650 (123–485)	420–1950 (569–2644)
GVW lbs (kg)	14,000–unlimited (6,350–unlimited)

ENGINE hp (kW)	TORQUE lb-ft (N•m)
165–550 (123–410)	420–1700 (569–2305)
GVW lbs (kg)	14,000–unlimited (6,350–unlimited)

ENGINE hp (kW)	TORQUE lb-ft (N•m)
165–770 (123–574)	420–1950 (569–2644)
GVW lbs (kg)	14,000–unlimited (6,350–unlimited)

RUGGED DUTY SERIES™

Allison Rugged Duty Series™ automatic transmissions are suited for any vehicle that operates on/off highway and/or requires PTO operation.

ENGINE hp (kW)	TORQUE lb-ft (N•m)
165–600 (123–447)	420–1850 (569–2508)
GVW lbs (kg)	14,000–unlimited (6350–unlimited)

PUPIL TRANSPORT/SHUTTLE SERIES

Allison Pupil Transport/Shuttle Series™ automatic transmissions are ideally suited for school bus, shuttle bus and other select non-school applications.

ENGINE hp (kW)	TORQUE lb-ft (N•m)
165–365 ¹ (123–272 ¹)	420–950 (569–1288)
GVW lbs (kg)	14,000–unlimited (6350–unlimited)

TRUCK RV SERIES™

Allison Truck RV Series™ automatic transmissions are specifically designed to provide more power and more performance for truck recreational vehicles.

ENGINE hp (kW)	TORQUE lb-ft (N•m)
200–600 (149–447)	520–1850 (705–2508)
GVW lbs (kg)	20,000–unlimited (9072–unlimited)

SPECIALTY SERIES™

Allison Specialty Series™ automatic transmissions provide extended torque range, higher GVW capacity and advanced electronic controls to get the most performance out of higher horsepower engines, suited for military, tactical, combat and support vehicles.

ENGINE hp (kW)	TORQUE lb-ft (N•m)
165–1025 (123–764)	420–3300 (569–4474)
GVW lbs (kg)	14,000–unlimited (6350–unlimited)

OIL FIELD SERIES™

Allison Oil Field Series™ automatic transmissions are the only Allison transmissions certified for well servicing rig propulsion and auxiliary power applications such as high pressure pumping and hoisting.

ENGINE hp (kW)	TORQUE lb-ft (N•m)
300–3200 (224–2386)	950–9000 (1288–12,200)
GVW lbs (kg)	30,000–unlimited (13,608–unlimited)

OFF ROAD SERIES™

Allison Off Road Series™ provides technologically advanced, smaller, lighter, yet very robust automatic transmissions for articulated dumps, rigid dumps and other off-road applications.

ENGINE hp (kW)	TORQUE lb-ft (N•m)
250–1350 (186–1007)	520–4000 (705–5423)
GVW lbs (kg)	98,150–unlimited (44,500–unlimited)

HYBRID BUS™

Allison Transmission offers parallel hybrid architectures for a wide range of transit and city buses. With thousands of Allison hybrid propulsion systems in operation worldwide, we are one of the world's largest producers of hybrid systems for transit and city buses.

¹ Only available with SEM/LRTP – gasoline powered engine applications.

FEATURES & BENEFITS

Specifying a vehicle is an important business proposition. And specifying the right transmission for the vehicle is one of the most critical decisions that will impact the performance of that vehicle and a company's bottom line. The right combination of drivetrain components will not only improve vehicle performance, it can improve the operating cost of the vehicle over its lifetime.



RELIABILITY

Our customers' ability to perform and produce is directly tied to the vehicle and equipment used to do work. By engineering and manufacturing reliable, fully automatic transmissions and propulsion solutions, our customers experience reduced downtime and get more work done.

LIFECYCLE VALUE

Allison Automatics are engineered and manufactured to last. When you factor in all lifecycle costs — vehicle purchase price, insurance, fuel, tires, preventive maintenance, component repair, driver wages and retail resale value — along with the increased productivity, an Allison Automatic-equipped vehicle costs less to operate than a comparable competitively equipped vehicle.

FULLY AUTOMATIC ADVANTAGE

Our patented Continuous Power Technology™ delivers smoother, seamless, full-power shifts and superior acceleration and startability. Each shift is made automatically when appropriate, allowing drivers to precisely manage performance and exercise superior vehicle control.

ALLISON TORQUE CONVERTER

Allison's torque converter smoothly multiplies peak engine torque, delivering more power to the wheels. By multiplying the engine power, drivers get increased performance, faster acceleration and greater operational flexibility. An Allison fully automatic transmission increases power while a manual or automated manual transmission (AMT) loses power with every shift. An Allison Automatic eliminates power interrupts so you can accomplish more.

DRIVER BENEFITS

Once behind the wheel of an Allison fully automatic-equipped vehicle, drivers are more alert and in tune with the vehicle, leading to increased driver retention and better safety records. Even experienced drivers benefit from more precise, safer handling and improved comfort. Also, today's drivers are less familiar with driving manual transmissions. This is not a problem with an Allison Automatic.

PERFORMANCE AND PRODUCTIVITY

Allison Automatics perform better than manual or automated manual transmissions (AMTs), that lose power and torque every time they shift, resulting in inefficient operation and less ground traveled. Faster acceleration means more work accomplished, which means more to your bottom line.

FUEL UTILIZATION

Allison fully automatic transmissions offer the best combination of economy and productivity. To get the most benefit out of every drop of fuel, our sophisticated FuelSense® packages increase fuel economy for a specific vehicle's needs. Allison is also the preferred transmission for alternative fuel applications, such as natural gas.

CUSTOMER SUPPORT

From our headquarters in Indianapolis, Indiana, USA, to our manufacturing plants in Hungary and India to approximately 1,400 Allison Authorized Distributors and Dealers around the globe, customers are never far from the trained technicians, products, training, service and support they demand.

EASY MAINTENANCE

A fully automatic transmission from Allison, a trusted brand around the world, is the best way to keep your fleet on the road while reducing total cost of ownership. With extended periods between maintenance and a proven track record of reliability, Allison puts you in control of your fleet and of your budget.



Fuel Efficiency

Take your fuel economy to the next level by utilizing the smart technology Allison provides with innovative features such as FuelSense® 2.0 and xFE.

FUELSENSE® 2.0

with DynActive™ Shifting

Features

FuelSense® 2.0 presents new and upgraded FuelSense features to provide even more precise balancing of fuel economy and performance:

DynActive™ Shifting—This new innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on your specifications, vehicle and environmental parameters. Older shifting technologies use shift schedules with fixed shift points.

Neutral at Stop—This feature trims fuel consumption and emissions by reducing or eliminating the load on the engine when the vehicle is stopped. There are two versions of Neutral at Stop:

- Standard – Provides partial (first-level) neutral at stop.
- Premium – Provides full neutral at stop and a new, low-speed coasting capability.

Both versions lock the output while stopped to prevent rollback.

Acceleration Rate Management—A feature that mitigates aggressive driving by automatically controlling engine torque. Newly updated, in addition to five levels of control, it provides more precision by limiting vehicle acceleration to a customized calibrated rate.

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- FuelSense 2.0 Brochure
- xFE Brochure
- Two Maxes FuelSense 2.0 Video
- FuelSense 2.0 Overview Video

FuelSense® 2.0 with DynActive™ Shifting

Our standard package of FuelSense features gives you infinitely variable shift scheduling instead of traditional table-based scheduling.

FuelSense® 2.0 Plus with DynActive™ Shifting

Adds an improved Neutral at Stop, which reduces the load on the engine when the vehicle is stopped and while coasting at low speeds, for additional fuel savings.

FuelSense® 2.0 Max with DynActive™ Shifting

Includes both Neutral at Stop and enhanced Acceleration Rate Management features. Not only can you save fuel when your vehicle is stopped, you can limit vehicle acceleration to a rate set just for you.

xFE

Stretch your Fuel Dollars Further. Specify An Allison Automatic With xFE

xFE is another in a string of innovative, fuel saving ideas from Allison. This fuel savings results from gear ratios designed to squeeze more value from every tank of fuel.

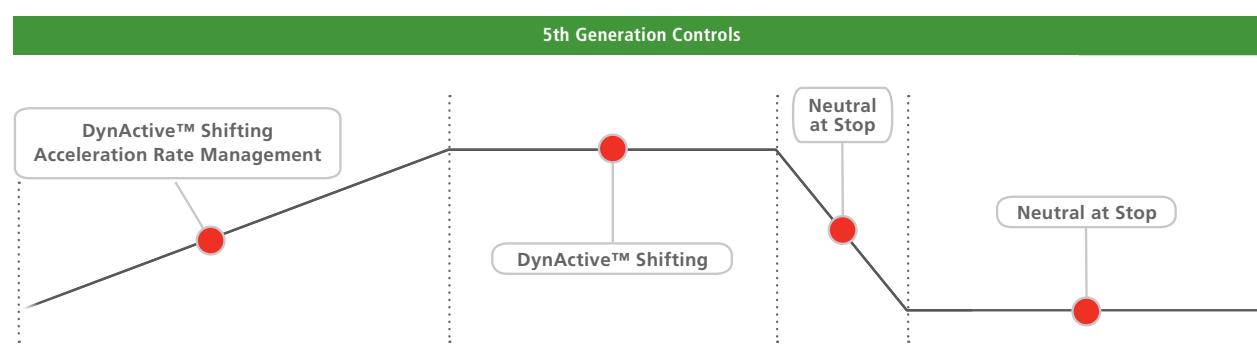
Earlier Lock Up + Lower Engine Speeds = Extra Fuel Economy

xFE models have been designed to deliver significantly more torque converter lock up operation and spend more time in higher ranges at lower engine speeds producing exceptional fuel savings. Real-world tests with customer fleets demonstrate xFE's ability to improve fuel economy up to 7% over comparatively-equipped models.

VOCATIONAL MODEL PRODUCT CONTENT

AVAILABLE PACKAGES		
FuelSense® 2.0	FuelSense® 2.0 Plus	FuelSense® 2.0 Max
5th Generation Controls	5th Generation Controls	5th Generation Controls
DynActive™ Shifting	DynActive™ Shifting	DynActive™ Shifting
	Neutral at Stop	Neutral at Stop
		Acceleration Rate Management

FUELSENSE® 2.0 FEATURES SAVE FUEL ACROSS THE DUTY CYCLE



THE MORE YOU START AND STOP, THE MORE YOU SAVE

LESS DUTY-CYCLE START-STOP DENSITY MORE



LESS FUEL SAVINGS MORE

RUGGED DUTY SERIES™

1000 RDS	2350 RDS	4000 RDS
1350 RDS	2500 RDS	4500 RDS
2100 RDS	2550 RDS	4700 RDS
2200 RDS	3000 RDS	
2300 RDS	3500 RDS	

FUELSENSE® 2.0 + xFE

TRACTOR SERIES™

TC10® TS	1700-80
TC10® TS	1750-90
TC10® TS	1850-90
TC10® TS	1850-110

HIGHWAY SERIES™

1000 HS	2300 HS	3000 HS
1350 HS	2350 HS	4000 HS
2100 HS	2500 HS	4500 HS
2200 HS	2550 HS	

PUPIL TRANSPORT/SHUTTLE SERIES™

1000 PTS	2200 PTS	2500 PTS
1350 PTS	2300 PTS	2550 PTS
2100 PTS	2350 PTS	3000 PTS

TRUCK RV SERIES™

3000 TRV	3200 TRV	4000 TRV
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SPECIALTY SERIES™

1000 SP	2550 SP	4430 SP	6625 SP
1350 SP	3000 SP	4500 SP	8610 SP
2100 SP	3200 SP	4700 SP	9610 SP
2200 SP	3500 SP	4800 SP	
2350 SP	3700 SP	5620 SP	
2500 SP	4000 SP	6620 SP	

MOTORHOME SERIES™

1000 MH	2200 MH	2550 MH
1350 MH	2350 MH	3000 MH
2100 MH	2500 MH	4000 MH

BUS SERIES™

B 210	B 300	B 500
B 220	B 400	
B 295	B 3400 xFE	

OIL FIELD SERIES™

3500 OFS	4750 OFS	9817 OFS
4430 OFS	5620 OFS	9823 OFS
4500 OFS	6620 OFS	9826 OFS
4700 OFS	8610 OFS	9832 OFS

EMERGENCY VEHICLE SERIES™

1000 EVS	2500 EVS	4500 EVS
1350 EVS	2550 EVS	4700 EVS
2100 EVS	3000 EVS	4800 EVS
2200 EVS	3500 EVS	4850 EVS
2350 EVS	4000 EVS	

OFF ROAD SERIES™

3000 ORS	4200 ORS	4700 ORS	6625 ORS
3200 ORS	4430 ORS	4800 ORS	6630 ORS
3500 ORS	4500 ORS	5620 ORS	8610 ORS
4000 ORS	4600 ORS	6620 ORS	9610 ORS

HYBRID BUS™

H 40 EP	H 50 EP
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1000-4000 SERIES™ SPECIFICATIONS

GEAR RATIOS – TORQUE CONVERTER MULTIPLICATION NOT INCLUDED										
MODEL	VOCATION	FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH	REVERSE	2ND REVERSE
1000/1350/2100/2200/ 2350/B 210/B 220/B 295	HS, PTS, RDS, BUS, EVS, MH, SP	3.10:1	1.81:1	1.41:1	1.00:1	0.71:1	0.61:1 ¹	—	-4.49:1	—
2300	HS, PTS, RDS	3.10:1	1.81:1	1.41:1	1.00:1	0.71:1	0.61:1 ¹	—	-4.49:1	—
2500/2550	HS, PTS, RDS, EVS, MH, SP	3.51:1	1.90:1	1.44:1	1.00:1	0.74:1	0.64:1 ¹	—	-5.09:1	—
3000/B 300/B 400	HS, PTS, RDS, BUS, EVS, MH, TRV, SP, ORS	3.49:1	1.86:1	1.41:1	1.00:1	0.75:1	0.65:1	—	-5.03:1	—
3200	TRV, SP, ORS	3.49:1	1.86:1	1.41:1	1.00:1	0.75:1	0.65:1	—	-5.03:1	—
B 3400 xFE	BUS	3.49:1	2.03:1	1.47:1	1.00:1	0.69:1	.59:1	—	-3.80:1	—
3500	RDS, EVS, SP, OFS, ORS	4.59:1	2.25:1	1.54:1	1.00:1	0.75:1	0.65:1	—	-5.00:1	—
3700	SP	6.93:1	4.18:1	2.24:1	1.69:1	1.20:1	0.90:1	0.78:1	-6.03:1	—
4000/4200 ORS/B 500	HS, RDS, BUS, EVS, MH, TRV, SP, ORS	3.51:1	1.91:1	1.43:1	1.00:1	0.74:1	0.64:1	—	-4.80:1	—
4430 SP/4430 4500 4600 ORS/4430 OFS	HS, RDS, EVS, SP, OFS, ORS	4.70:1	2.21:1	1.53:1	1.00:1	0.76:1	0.67:1	—	-5.55:1	—
4700/4750 ORS/4750 OFS	RDS, EVS, SP ² , OFS, ORS	7.63:1 ³	3.51:1	1.91:1	1.43:1	1.00:1	0.74:1	0.64:1	-4.80:1	-17.12:1 ⁴
4800/4850 EVS	EVS, SP ² , ORS	7.63:1 ³	3.51:1	1.91:1	1.43:1	1.00:1	0.74:1	0.64:1	-4.80:1	-17.12:1 ⁴

1 Check with your OEM to ensure offerings. 2 Second reverse not available. 3 Manually selected first gear. 4 SEM/LRTP or LRTP only is required.

STANDARD POWER TAKEOFF – CONTINUOUS OPERATION					
BASE MODEL	VOCATION	MOUNTING PAD POSITIONS VIEWED FROM REAR	DRIVE GEAR RATING WITH ONE PTO lb-ft (N•m)	DRIVE GEAR RATING WITH TWO PTOs lb-ft (N•m)	DRIVE
SIDE/SIDE – 1000/1350/2000/B 210/B 220	RDS, BUS ¹ , EVS, MH ¹ , SP ¹	3 and 9 o'clock	250 (339)	200 ² (271) ²	Turbine
SIDE/SIDE – 3000 ¹ /B 300 ¹ /B 400 ¹ / B 3400 xFE ¹	RDS, BUS, EVS, MH, TRV, SP, OFS, ORS	4 and 8 o'clock	485 (660)	685 ^{3,4} (930) ^{3,4}	Engine
TOP/SIDE – 3000	RDS, SP, OFS, ORS	1 and 8 o'clock	485 (660)	685 ^{3,4} (930) ^{3,4}	Engine
	EVS	1 and 8 o'clock	670 (910)	685 ^{3,4} (930) ^{3,4}	Engine
3700	SP	8 o'clock	485 (660)	—	Engine
4000 ¹ /B 500 ¹	RDS, BUS, EVS, MH, TRV, SP, OFS, ORS	1 and 8 o'clock	685 (930)	1175 ^{3,4} (1595) ^{3,4}	Engine

1 PTO-delete option available. 2 Rating per PTO. 3 Total on the drive gear. 4 Minimum 600 rpm idle speed required when dual PTOs are used simultaneously.

ENGINE SPEEDS				
MODEL	VOCATION	FULL LOAD GOVERNED SPEED Min-Max (rpm)	IDLE SPEED IN DRIVE Min-Max (rpm)	OUTPUT SHAFT SPEED (rpm)
1000/1350/2100/2200/ 2350/B 210/B 220/B 295	HS, PTS, RDS, BUS, EVS, MH, SP	2200-5000 ¹	500-820	5000
2300	HS, PTS, RDS	2200-5000 ¹	500-820	5000
2500/2550/B 210/B 220	HS, PTS, RDS, BUS, EVS, MH, SP	2200-3800	500-820	4500
3000/B 300/B 400/ B 3400 xFE	HS, PTS, RDS, BUS, EVS, MH, TRV, SP, ORS	1950-2800	500-800	3600 ²
3200	TRV, SP, ORS	1950-2800	500-800	3600 ²
3500	RDS, EVS, SP, OFS, ORS	1950-2800	500-800	3600 ²
3700	SP	1950-2800	500-800	—
4000/B 500	HS, RDS, BUS, EVS, MH, TRV, SP, ORS	1700-2300	500-800	—
4430 OFS/4430 ORS/ 4430 SP/4500	HS, RDS, EVS, SP, OFS, ORS	1700-2300	500-800	—
4600 ORS/4700 ORS/4750 OFS	RDS, EVS, SP, OFS, ORS	1700-2300	500-800	—
4800/4850 EVS	EVS, SP ³	1700-2300 ³	500-800	—

1 Engines with full-load governed speed greater than 3800 rpm require Application Engineering review.

2 Retarder equipped models only. 3 2400 rpm for Military Combat vehicle applications.

PHYSICAL DESCRIPTION					
BASE MODEL	VOCATION	LENGTH ¹ in (mm)	DEPTH ² w/DEEP OIL PAN/SUMP in (mm)	DEPTH ² w/SHALLOW OIL PAN/SUMP in (mm)	DRY WEIGHT lbs (kg)
1000/2000 ³ /B 210/B 220/B 295	—	—	—	—	—
– SAE No. 3 mounting	HS, PTS, RDS, BUS, EVS, MH, SP	28.01 (711.4)	11.22 (285.1)	10.71 (272.0)	323 (146.5)
– SAE No. 2 mounting	HS, PTS, RDS, BUS, EVS, MH, SP	28.39 (721.1)	11.22 (285.1)	10.71 (272.0)	323 (146.5)
3000/B 300/B 400/B 3400 xFE	—	—	—	—	—
– Basic model	HS ⁴ , RDS ⁴ , PTS ⁴ , BUS, EVS, MH, TRV, SP, OFS, ORS	28.3 (718.7)	12.90 (327.7)	11.14 (283.0)	535 (243)
– With PTO only	RDS ⁴ , BUS, EVS, MH, TRV, SP, OFS, ORS	32.5 (825.4)	12.90 (327.7)	11.14 (283.0)	575 (261)
– With retarder only	HS ⁴ , RDS ⁴ , PTS ⁴ , BUS, EVS, MH, TRV, SP, OFS, ORS	28.29 (718.5)	12.90 (327.7)	11.14 (283.0)	615 (279)
– With PTO & retarder	RDS ⁴ , BUS, EVS, MH, TRV, SP, OFS, ORS	32.49 (825.4)	12.90 (327.7)	11.14 (283.0)	655 (298)
3700	—	—	—	—	—
– Basic model	SP	51.58 (1310.3)	21.90 (555.0)	—	1170 (530)
4000/4430 ⁵ /4500/B 500	—	—	—	—	—
– Basic model	HS ⁵ , RDS ⁵ , BUS, EVS, MH, TRV, SP ⁵ , ORS	30.54 (775.8)	14.75 (374.7)	13.29 (337.6)	831 (377)
– With PTO only	RDS ⁵ , BUS, EVS, MH, TRV, SP ⁵ , ORS	33.41 (848.7)	14.75 (374.7)	13.29 (337.6)	893 (405)
– With retarder only	HS ⁵ , RDS ⁵ , BUS, EVS, MH, TRV, SP ⁵ , ORS	30.54 (775.7)	14.75 (374.7)	13.29 (337.6)	906 (411)
– With PTO & retarder	RDS ⁵ , BUS, EVS, MH, TRV, SP ⁵ , OFS, ORS	33.41 (848.7)	14.75 (374.7)	13.29 (337.6)	968 (439)
4700/4750 OFS/4800/4850 EVS	—	—	—	—	—
– Basic model	RDS, EVS, SP	40.61 (1031.5)	14.89 (378.2)	—	1087 (493)
– With PTO only	RDS, EVS, SP	43.49 (1104.5)	14.89 (378.2)	—	1149 (521)
– With retarder only	RDS, EVS, SP	40.61 (1031.6)	14.89 (378.2)	—	1162 (527)
– With PTO & retarder	RDS, EVS, SP, OFS	43.49 (1104.6)	14.89 (378.2)	—	1224 (555)

1 Length measured from flywheel housing to end of output shaft. 2 Depth measured below transmission centerline. 3 2000 SP – Only 2000 model available with shallow oil pan.

4 3000 HS, RDS, PTS – Available with deep oil pan only. 5 4000 HS, RDS, SP – Available with deep oil pan only. 6 4430 is an SP model only – available only with deep oil pan.

OIL SYSTEM		
BASE MODEL	VOCATION	CAPACITY ¹ QUARTS (LITERS)
1000/2000 ² /B 210/B 220/B 295 (main circuit filter – spin-on canister)	—	—
– Standard Oil Sump	HS, PTS, RDS, BUS, EVS, MH, SP	13.7 ⁴ (13.0) ⁴
– Shallow Oil Sump	HS, PTS, RDS, BUS, EVS, MH, SP	11.6 ⁴ (11.0) ⁴
3000 ³ /B 300 ³ /B 400 ³ /B 3400 xFE ³	—	—
– Deep Oil Sump w/PTO	RDS, BUS, EVS, MH, TRV, SP, OFS, ORS	29.75 ⁴ (28.1) ⁴
– Deep Oil Sump w/o PTO	HS, PTS, RDS, BUS, EVS, MH, TRV, SP, OFS, ORS	29 ⁴ (27.4) ⁴
– Shallow Oil Sump w/PTO	BUS, EVS, MH, TRV, SP	26.75 ⁴ (25.3) ⁴
– Shallow Oil Sump w/o PTO	BUS, EVS, MH, TRV, SP	26 ⁴ (24.6) ⁴
3700 ³	—	—
– Deep Oil Sump w/PTO	SP	39 ⁴ (37) ⁴
4000 ³ /4430 ^{3,5} /4500 ³ /B 500 ³	—	—
– Deep Oil Sump w/PTO	RDS, BUS, EVS, MH, TRV, SP, OFS, ORS	51 ⁴ (48) ⁴
– Deep Oil Sump w/o PTO	HS, RDS, BUS, EVS, TRV, SP, MH, OFS, ORS	48 ⁴ (45) ⁴
– Shallow Oil Sump w/PTO	EVS, MH, TRV, SP	43 ⁴ (41) ⁴
– Shallow Oil Sump w/o PTO	EVS, MH, SP, BUS, TRV	40 ⁴ (38) ⁴
4700 ³ /4750 OFS ³ /4800/4850 EVS w/SEVEN SPEEDS ^{3,6}	—	—
– Deep Oil Sump and PTO	RDS, EVS, SP, OFS	54 ⁴ (51) ⁴
– Deep Oil Sump w/o PTO	RDS, EVS, SP, OFS	51 ⁴ (48) ⁴

Recommended oil types for all models are TranSynd®/TES 295® approved.

1 Transmission only. Does not include cooler, hoses or fittings. 2 2000 SP – Only 2000 model available with shallow oil pan.

5000-9000 SERIES™ SPECIFICATIONS

GEAR RATIOS – TORQUE CONVERTER MULTIPLICATION NOT INCLUDED												
MODEL	VOCATION	FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH	EIGHTH	REVERSE	2ND REVERSE	
5620	OFS, ORS, SP	4.00:1	2.68:1	2.01:1	1.35:1	1.00:1	0.67:1	—	—	-5.15:1	-3.46:1	
6620	OFS, ORS, SP	4.00:1	2.68:1	2.01:1	1.35:1	1.00:1	0.67:1	—	—	-5.15:1	-3.46:1	
6625	ORS, SP	4.00:1	2.68:1	2.01:1	1.35:1	1.00:1	0.67:1	—	—	-5.15:1	-3.46:1	
6630	ORS	4.00:1	2.68:1	2.01:1	1.35:1	1.00:1	0.67:1	—	—	-5.15:1	-3.46:1	
8610	OFS, ORS, SP	4.24:1	2.32:1	1.69:1	1.31:1	1.00:1	0.73:1	—	—	-5.75:1	—	
9610	ORS	4.24:1	3.05:1	2.32:1	1.67:1	1.00:1	0.72:1	—	—	-5.75:1	4.13:1	
9817	OFS	3.75:1	2.69:1	2.20:1	1.77:1	1.58:1	1.27:1	1.00:1	0.72	—	—	
9823	OFS	3.75:1	2.69:1	2.20:1	1.77:1	1.58:1	1.27:1	1.00:1	0.72	—	—	
9826	OFS	3.75:1	2.69:1	2.20:1	1.77:1	1.58:1	1.27:1	1.00:1	0.72	—	—	
9832	OFS	3.75:1	2.69:1	2.20:1	1.77:1	1.58:1	1.27:1	1.00:1	0.72	—	—	

1 Manually selected first gear. 2 SEM/LRTP or LRTP only is required.

STANDARD POWER TAKEOFF – CONTINUOUS OPERATION					
BASE MODEL	VOCATION	SIDE MOUNTING PAD POSITIONS VIEWED FROM REAR	TOP MOUNTING PAD POSITIONS VIEWED FROM REAR	DRIVE GEAR RATING W/ INTERMITTENT PTO lb-ft (N•m)	DRIVE GEAR RATING WITH CONTINUOUS PTO lb-ft (N•m)
5620	OFS, ORS, SP	5 o'clock position	12 o'clock position	500 (678)	313 (424)
6620	OFS, ORS, SP	5 o'clock position	12 o'clock position	500 (678)	313 (424)
6625	ORS, SP	5 o'clock position	12 o'clock position	500 (678)	313 (424)
6630	ORS	5 o'clock position	12 o'clock position	500 (678)	313 (424)
8610	OFS, ORS, SP	5 o'clock position	12 o'clock position	1000 (1356)	750 (1017)
9610	ORS	5 o'clock position	12 o'clock position	1000 (1356)	750 (1017)
9817	OFS	5 o'clock position	12 o'clock position	1000 (1356)	750 (1017)
9823	OFS	5 o'clock position	12 o'clock position	1000 (1356)	750 (1017)
9826	OFS	5 o'clock position	12 o'clock position	1000 (1356)	750 (1017)
9832	OFS	5 o'clock position	12 o'clock position	1000 (1356)	750 (1017)

1 PTO-delete option available. 2 Total on the drive gear. 3 Minimum 600 rpm idle speed required when dual PTOs are used simultaneously.

PHYSICAL DESCRIPTION						
BASE MODEL	VOCATION	LENGTH ¹ w/o RETARDER in (mm)	LENGTH ¹ w/RETARDER in (mm)	DEPTH (BASIC MODEL) in (mm)	DEPTH W/DIRECT MOUNT FILTERS in (mm)	DRY WEIGHT lbs (kg)
5620	OFS, ORS, SP	43.1 (1095)	46.6 (1182)	31.0 (788)	35.6 (904)	2200 (998)
5620 w/Dropbox	OFS, ORS, SP	46.7 (1185)	50.1 (1273)	40.7 (1034)	45.3 (1150)	2750 (1247)
6620	OFS, ORS, SP	43.1 (1095)	46.6 (1182)	34.1 (866)	38.7 (982)	2260 (1025)
6625	ORS, SP	43.1 (1095)	46.6 (1182)	34.1 (866)	38.7 (982)	2260 (1025)
6630	ORS	43.1 (1095)	46.6 (1182)	34.1 (866)	38.7 (982)	2260 (1025)
8610	OFS, ORS, SP	55.5 (1411)	—	35.3 (896)	39.8 (1011)	3700 (1678)
9610	ORS	55.5 (1411)	—	35.3 (896)	39.8 (1011)	3700 (1678)
9817	OFS	56.5 (1435)	—	35.3 (896)	39.8 (1011)	3610 (1637)
9823	OFS	56.5 (1435)	—	35.3 (896)	39.8 (1011)	3610 (1637)
9826	OFS	56.5 (1435)	—	35.3 (896)	39.8 (1011)	3710 (1683)
9832	OFS	56.5 (1435)	—	35.3 (896)	39.8 (1011)	3720 (1687)

1 Length measured from flywheel housing to end of output shaft.

OIL SYSTEM		
BASE MODEL	VOCATION	CAPACITY ¹ QUARTS (LITERS)
5620	OFS, ORS, SP	72 (68)
6620	OFS, ORS, SP	72 (68)
6625	ORS, SP	72 (68)
6630	ORS	72 (68)
8610	OFS, ORS, SP	84 (79)
9610	ORS, SP	84 (79)
9817	OFS	84 (79)
9823	OFS	84 (79)
9826	OFS	84 (79)
9832	OFS	84 (79)

Recommended oil types for all models are TranSynd®/TES 295® approved.
1 Transmission only. Does not include cooler, hoses or fittings. 2 Main and lube circuit filter are integral; electronic oil sensors are standard. 3 Amount of oil necessary to fill a dry transmission. 4 Retarder models must use 4-inch sump without OLS.

OPTIONAL RETARDER PROVISION – INTEGRAL, HYDRAULIC TYPE			
BASE MODEL	VOCATION	TORQUE CAPACITY lb-ft (N•m)	POWER CAPACITY hp (Kw)
5620	OFS, ORS, SP	1500 (2034)	600 (447)
6620	OFS, ORS, SP	1500 (2034)	600 (447)
6625	ORS, SP	1500 (2034)	600 (447)
6630	ORS	1500 (2034)	600 (447)
8610	OFS, ORS, SP	3451 (4679)	1380 (1029)
9610	ORS	4152 (5630)	1660 (1238)
9817	OFS	—	—
9823	OFS	—	—
9826	OFS	—	—
9832	OFS	—	—

ENGINE SPEEDS				
MODEL	VOCATION	FULL LOAD GOVERNED SPEED Min-Max (rpm)	IDLE SPEED IN DRIVE Min-Max (rpm)	OUTPUT SHAFT SPEED (rpm)
5620	OFS, ORS, SP	1900-2500	550	—
6620	OFS, ORS, SP	1900-2500	550	—
6625	ORS, SP	1900-2500	550	—
6630	ORS	1900-2500	550	—
8610	OFS, ORS, SP	1800-2300	550	—
9610	ORS	1800-2100	550	—
9817	OFS	1800-2100	550	—
9823	OFS	1800-2100	550	—
9826	OFS	1800-2100	550	—
9832	OFS	1800-2100	550	—

1 Retarder equipped models only.

TORQUE CONVERTER SPECIFICATIONS			
BASE MODEL	VOCATION	TORQUE CONVERTER	NOMINAL STALL TORQUE
5620 6620 6625 6630	OFS, ORS, SP	TC-580	2.89
		TC-680 (retarder)	2.17
		TC-680 (no retarder)	2.08
		TC-682	1.77
		TC-683	1.85
8610	OFS, ORS, SP	TC-860	2.33
		TC-880	2.20
		TC-890	1.86
		TC-1060	1.86
		TC-1070	1.78
9610 9817 9823 9826 9832	OFS, ORS	TC-1078	1.84
		TC-1060	1.86
		TC-1070	1.78
		TC-1078	1.84
		TC-1080	1.61
		TC-1090	1.31



Class 8 tractors have historically been forced to compromise overall vehicle drivability, along with transmission reliability, dependability and performance, in favor of fuel economy. Not any longer.

ALLISON TRANSMISSION TRACTOR SERIES™

RATINGS						
MODEL	MAX INPUT POWER hp (kW)	MAX INPUT TORQUE ¹ lb-ft (N•m)	MAX OUTPUT TORQUE ¹ lb-ft (N•m)	MAX TURBINE TORQUE ^{2,3} lb-ft (N•m)	MAX GVW lbs (kg)	MAX GCW lbs (kg)
TC10® TS 1700-80	600 (447)	1700 (2305)	13,000 (17,625)	1750 (2373)	—	80,000 (36,288)
TC10® TS 1750-90	600 (447)	1750 (2373)	13,000 (17,625)	1750 (2372)	—	90,000 (40,823)
TC10® TS 1850-90	600 (447)	1850 (2508)	13,000 (17,625)	1850 (2508)	—	90,000 (40,823)
TC10® TS 1850-110	600 (447)	1850 (2508)	13,000 (17,625)	1850 (2508)	—	110,000 (49,895)

1 Gross power rating as defined by ISO 1585 or SAE J1995. 2 Turbine Torque limit based on iSCAAN standard deductions.
3 Lower Range Torque Protection (LRTP) required to limit turbine torque and to limit output torque to 13,000 lb-ft (17,625 Nm) or less.

GEAR RATIOS – TORQUE CONVERTER MULTIPLICATION NOT INCLUDED												
RANGE	FIRST	SECOND	THIRD	FOURTH	FIFTH	SIXTH	SEVENTH	EIGHTH	NINTH	TENTH	STANDARD REVERSE	ALTERNATE REVERSE
RATIO	7.40:1	5.44:1	4.25:1	3.43:1	2.94:1	2.16:1	1.59:1	1.24:1	1.00:1	0.86:1	-6.71:1	-1.96:1
STEP %	—	36%	28%	24%	17%	36%	36%	28%	24%	16.28%		

STANDARD POWER TAKEOFF PROVISION ²				OIL SYSTEM
BASE MODEL	MOUNTING PAD POSITIONS	MAXIMUM VALUE	DRIVE SPEED	BASE MODEL CAPACITY ¹
		lb-ft (N•m)	RPM	quarts (liters)
TC10® TS	Rear		1.28 x Turbine Speed	TC10® TS 56 ² (53) ²
Continuous Operation ¹		475 (645)		
Intermittent Operation		650 (880)		

1 Drive shaft torque must not exceed continuous rating for more than one-third of the PTO operation.

2 The PTO Provision is optional for the TC10. All TC10 Transmissions have a PTO pad and cover located on the rear cover. The TC10 includes the PTO drive shaft if the PTO option is ordered with the transmission. Contact your Allison representative for more information.

ENGINE SPEEDS			
MODEL	FULL LOAD GOVERNED SPEED Min-Max (rpm)	IDLE SPEED IN DRIVE Min-Max (rpm)	OUTPUT SHAFT SPEED FORWARD rpm
TC10® TS	1700-2100	600-800	2440

PHYSICAL DESCRIPTION			
BASE MODEL	LENGTH ¹ in (mm)	OIL PAN DEPTH ² in (mm)	DRY WEIGHT lbs (kg)
TC10® TS	40.98 (1040.9)	16.83 (427.5)	1074 (487)

1 Length from the engine transmission split line to the end of output shaft.

2 Depth below the transmission centerline.

TORQUE CONVERTER SPECIFICATIONS		
BASE MODEL	TORQUE CONVERTER	NOMINAL STALL TORQUE
TC10® TS	TC-633	1.84



TC10® TS

ALLISON TC10® TRACTOR SERIES™ FEATURES AND ADVANTAGES

5% Better Fuel Economy

Real-world fleets have documented 5% better fuel economy with Allison TC10® equipped tractors over their current manual or automated manual transmission (AMT) equipped tractors. Thanks to FuelSense®, the TC10 achieves the best fuel economy, regardless of driver experience or expertise. It shifts at just the right points to maintain vehicle performance and maximize fuel economy.

Blended Architecture

The TC10 represents the best of both worlds by combining drivability, performance and durability benefits of Allison's fully automatic transmissions with the cruising fuel economy inherent in twin countershaft architecture.

Additional Speeds

10 forward speeds standard

Standard and Alternate Reverse

TC10 features a standard and alternate reverse. Standard -6.710 and Alternate -1.957

DynActive™ Shifting

New innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on specs, vehicle and environmental parameters.

TRACTOR™ SERIES I/O Packages

Allison Transmission Fifth Generation Electronic Controls

VOCATION PACKAGE NUMBER			Tractor-Trailer					
INPUT FUNCTIONS		Default Enabled?	Available Over Datalink?	401	402	403	404	405
A	Secondary Mode Input	Yes	Yes	M	M			
C1	PTO Drive Interface 1 Input	Yes	Yes	113		113	113	
E	Auxiliary Function Range Inhibit – Single Input	No	Yes	101	101	101	101	101
H	Engine Brake Interface Input (Standard)	Yes	Yes					
W	Direction Change Enable Input	No	Yes					
Y	Anti-Lock Brake System (ABS) Input	Yes	Yes					
AA	Service Brake Status Input	Yes	Yes					
AH	Kickdown Input	No	Yes		M	M	M	
AS	Neutral at Stop Input	Yes	Yes	107	107		107	107
AW	2nd Reverse Input	Yes	No			107		
BS	Grade Braking/Regenerative Input	No	No					
CD	Automatic Neutral – Single Input with Selector Override	Yes	Yes					
CP	Alternate Gear Start Input	No	Yes		113			113
OUTPUT FUNCTIONS								
A	Engine Brake Interface Output	No	Yes					
C	Range Indicator	Yes	Yes	109	109	109	109	109
D	Output Speed Indicator A	Yes	Yes		115			115
G1	PTO Drive Interface 1 Output	Yes	Yes	115		115	115	
K	Lockup Indicator	Yes	Yes					
N	Secondary Mode Indicator	Yes	Yes					
O	Transmission Service Indicator	Yes	Yes					
AD	Range Inhibitor Indicator	Yes	Yes					

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

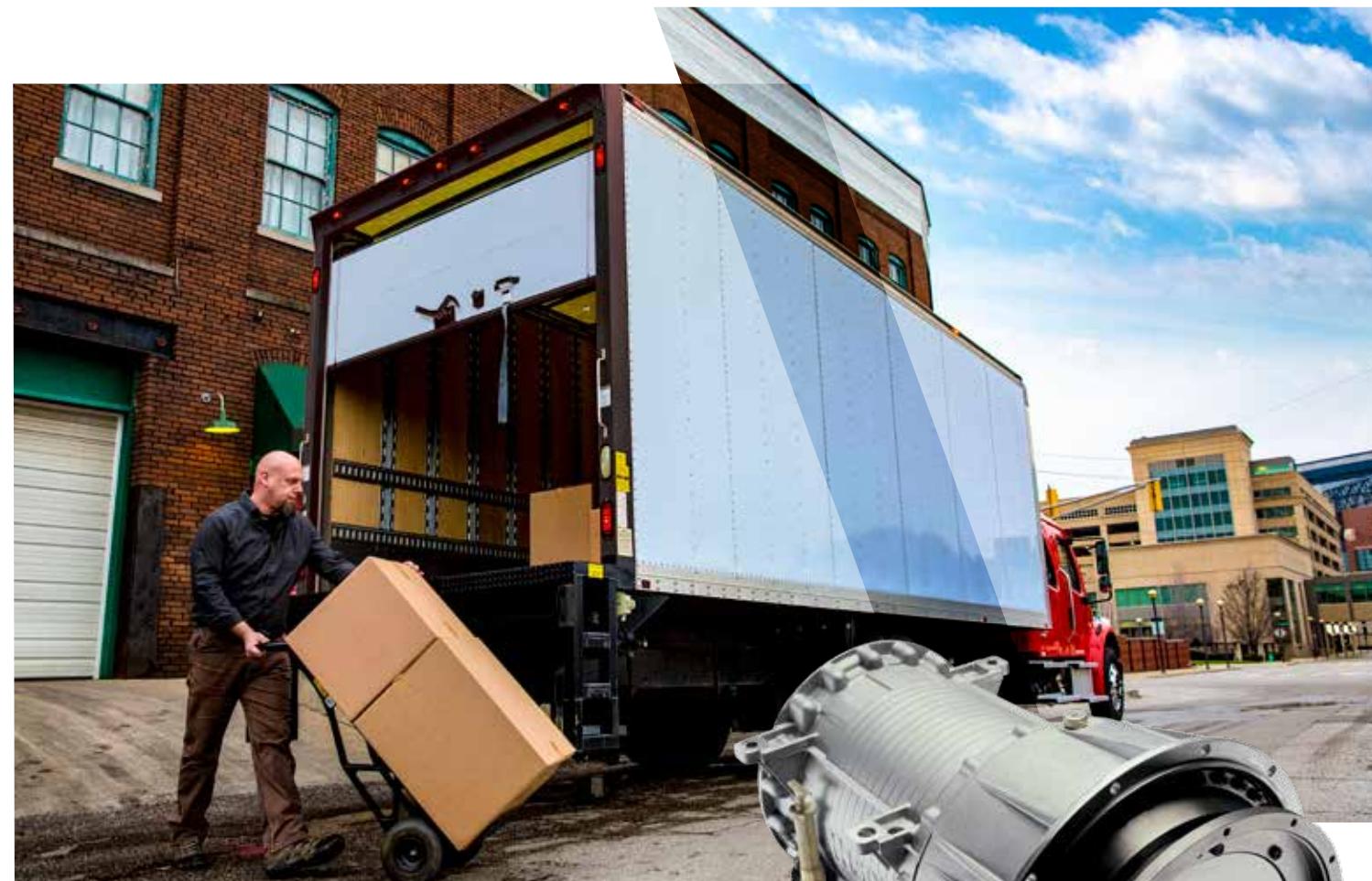
- TC10® TS Brochure
- TC10 Engineering Brochure
- Tractor Vocational Brochure

VIDEOS

- Sarah Fisher Hartman Racing Testimonial
- Navistar TC10 Testimonial
- Mesilla Valley Transportation Testimonial
- U.S. Xpress Testimonial

TYPICAL VEHICLE APPLICATIONS

- Distribution**
- Short Haul**
- Regional Haul**
- Line Haul**



Highway Series™

Allison Highway Series™ automatic transmissions get the most out of higher horsepower engines, while putting more control to the wheels. The result is smooth shifts at any speed and faster route times throughout the day.



ALLISON TRANSMISSION HIGHWAY SERIES™

RATINGS									
MODEL	SERIAL NUMBER	RATIO	PARK PAWL	MAX INPUT POWER ¹ hp (kW)	MAX INPUT TORQUE ¹ lb-ft (N•m)	MAX INPUT TORQUE w/SEM TORQUE LIMITING ^{1,2} lb-ft (N•m)	MAX TURBINE TORQUE ³ lb-ft (N•m)	MAX GVW lbs (kg)	MAX GCW lbs (kg)
1000 HS	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	19,500 (8845)	26,000 (11,800)
1000 HS xFE	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	19,500 (8845)	26,000 (11,800)
1350 HS	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	19,500 (8845)	30,000 (13,600)
1350 HS xFE	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	19,500 (8845)	30,000 (13,600)
2100 HS	6310	Close Ratio	No	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2100 HS xFE	6310	Close Ratio	No	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2200 HS	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2200 HS xFE	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2300 HS ⁵	6310	Close Ratio	No	365 ⁴ (272) ⁴	N/A	510 ⁴ (691) ⁴	950 ⁴ (1288) ⁴	33,000 (15,000)	33,000 (15,000)
2350 HS ⁷	6310	Close Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	660 ⁴ (895) ⁴	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
2350 HS ⁷ xFE	6310	Close Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	660 ⁴ (895) ⁴	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
2500 HS	6310	Wide Ratio	No	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	33,000 (15,000)	33,000 (15,000)
2500 HS xFE	6310	Wide Ratio	No	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	33,000 (15,000)	33,000 (15,000)
2550 HS ⁷	6310	Wide Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	660 ⁴ (895) ⁴	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
2550 HS ⁷ xFE	6310	Wide Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	660 ⁴ (895) ⁴	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
3000 HS	6510	Close Ratio	N/A	370 (276)	1100 (1491)	1250 ^{4,6} (1695) ^{4,6}	1600 (2169)	80,000 (36,288)	80,000 (36,288)
4000 HS	6610	Close Ratio	N/A	565 (421)	1770 (2400)	1850 ⁸ (2508) ⁸	2600 (3525)	—	—
4500 HS	6610	Wide Ratio	N/A	565 (421)	1650 (2237)	1850 ⁸ (2508) ⁸	2600 (3525)	—	—

1 Gross ratings as defined by ISO 1585 or SAE J1995. 2 SEM = engine controls with Shift Energy Management. 3 Turbine torque limit based on iSCAAN standard deductions.

5 Only available with VORTEC 8.1L gasoline powered engine applications. 6 Requires Allison Transmission engine-transmission combination approval. Only available in gears three through six.

4 SEM and torque limiting are required to obtain this rating.

7 Check with your OEM to ensure offerings. 8 Available in gears three through six.

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- Ford® 2000 Series Brochure
- Highway Series Individual Brochure
- Highway Series Individual Brochure (Spanish)
- Highway Series Individual Brochure (French)
- Distribution Vocational Brochure
- Tractor Vocational Brochure

GENERAL BROCHURES

- Saddle Creek Customer Profile
- Prognostics Brochure
- Residual Value Brochure
- Startability Flyer
- Shift Selector Operation and Code Manual
- Fluid and Filter Change Recommendations
- Torque Converter Brochure
- Blue Bell Creameries Testimonial Flyer
- Kramer Testimonial Flyer
- Perry Testimonial Flyer
- Ukrops Testimonial Flyer
- Allison vs. Dual Clutch Technology

VIDEOS

- Allison At Work
- How an Allison Automatic Performs
- Ukrops Testimonial
- Four Truckers Testimonial
- Kramer Beverage Company Testimonial
- Perry Distributors Testimonial
- Blue Bell Creameries Testimonial
- Eddie Nichols: One Million Miles and Counting Testimonial
- Saddle Creek Customer Profile

HIGHWAY SERIES™ FEATURES AND ADVANTAGES

Shift Energy Management (SEM) with torque limiting

Ratings up to 340 hp/660 lb-ft on 1000, 1350, 2100, 2200, 2350, 2500 and 2550 HS.

Ratings up to 365 hp/510 lb-ft on 2300 HS.

Ratings up to 370 hp/1250 lb-ft on 3000 HS.

Ratings up to 565 hp/1850 lb-ft on 4000 and 4500 HS.

High density start/stop calibrations

Improves shift operation, especially in congested traffic environments. Available on 1000, 2100, 2200 and 2300 HS.

Neutral at Stop

Automatically eliminates the transmission load on the engine when the vehicle is at a full stop to save fuel and reduce overall vehicle emissions.

Oil Level Sensor

At the push of a button, oil levels are displayed on shift selectors for easy identification. Standard on 3000, 4000 and 4500 HS.

Additional speeds

Five forward speeds standard on 3000 HS.

Deep oil pan/sump standard

Optional shallow oil pan available on 1000 HS.

Prognostics

Eliminates unnecessary oil and filter changes by monitoring various operating parameters to determine and alert when a specific maintenance function is required.

Acceleration Rate Management

Mitigates aggressive driving by controlling engine torque based on the vehicle's grade and load.

DynActive™ Shifting

New innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on specs, vehicle and environmental parameters.



TYPICAL VEHICLE APPLICATIONS

Any vehicle that operates on highway and does not need a PTO requires an Allison Highway Series transmission

Armored Car

Automobile Transporter

Beverage Delivery

Distribution

Equipment Hauler

(no permit/escort)

Flatbed

Food Distribution

General Freight

Line Haul

Livestock Hauler

Manufacturing

Moving/Storage

One-way Rental Truck

Recycling

Shorthaul/LTL

Stake Truck

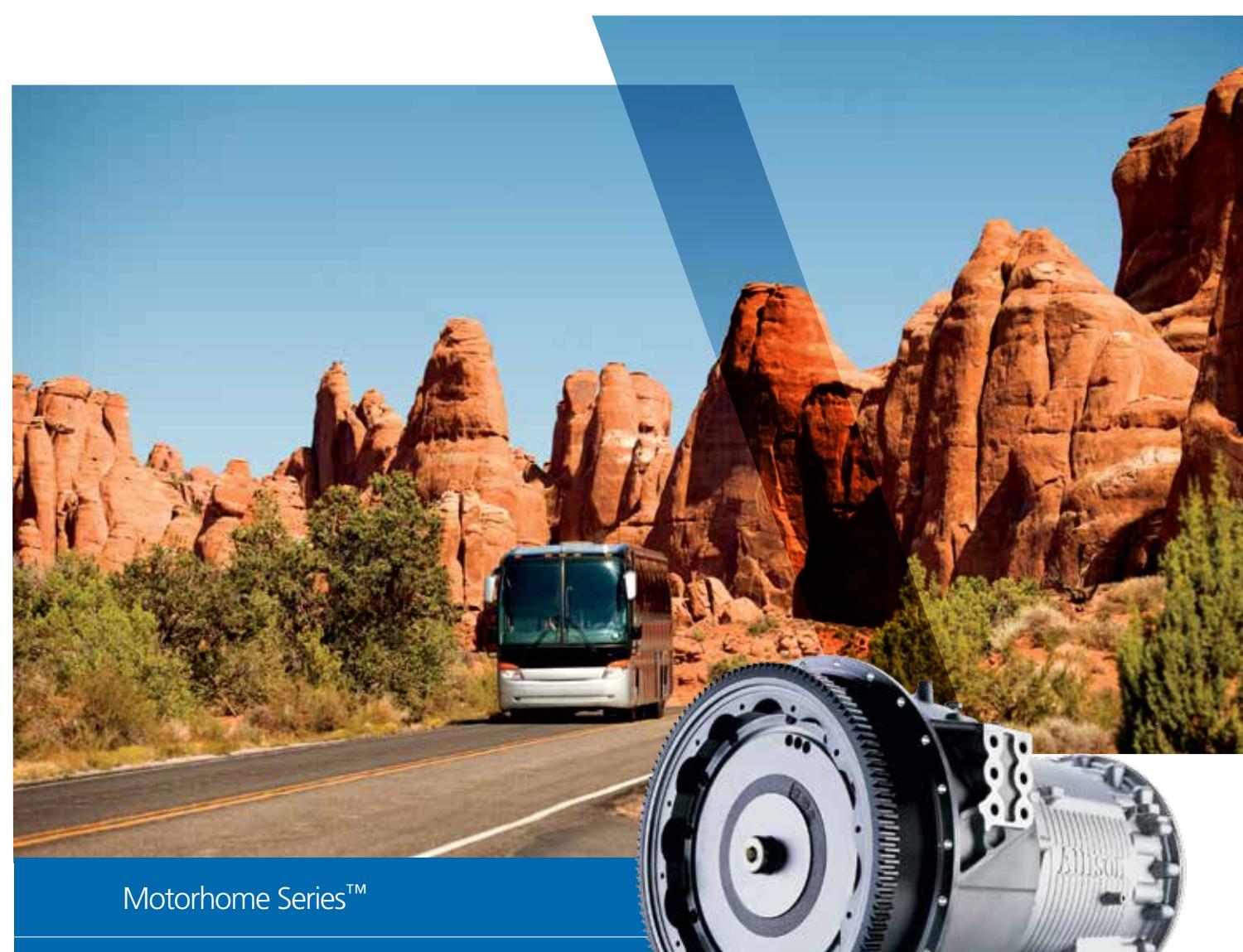
Van

Walk-in Van

HIGHWAY SERIES™ I/O Packages*

		1000/2000 PRODUCT FAMILIES		3000/4000 PRODUCT FAMILIES		
		On-Highway Vehicles				
VOCATION PACKAGE NUMBER		354	374	226	235	247
INPUT FUNCTIONS	Default Enabled?					
A Secondary Mode Input	Yes	142	142	M	142	142
C1 **PTO Drive Interface Input 1	Yes	143	162		M	143
C2 **PTO Drive Interface Input 2	No					
D Shift Selector Transition Input	No					
E Auxiliary Function Range Inhibit – Single Input	No	101	101	101	101	101
F Auxiliary Function Range Inhibit – Dual Input	Yes					
G Auxiliary Hold Input	Yes			142		M
H Engine Brake Interface Input (Standard)	No	102	102	102/157	102/157	102/157
I Engine Brake Interface Input (Special)	No					
J Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No					
K Quick-to-Neutral Input	No					
L Automatic Neutral – Single Input	No	123	123	117	117	117
Q Two Speed Axle Interface Input	Yes					
R Manual Lockup Control Input	No					
V Reverse Enable Input	No					
W Direction Change Enable Input	No			122	143	
Y Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121
Z Retarder Interface Input	Yes			161	161	161
AA Service Brake Status Input	Yes	162		162	162	162
AF Differential Clutch Interface Input (3700 Only)	Yes					
AG Automatic Neutral – Dual Input	Yes					
AH Accelerator Pedal Kickdown Input	Yes			122	122	
AI Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No					
AJ Pump Mode Input (4th Lockup)	No					
AK Automatic Neutral – Dual Input with Service Brake Status	Yes					
AL Shift Selector Transition & Secondary Shift Schedule Input	Yes					
AM Reverse Inhibit with Preselect Request Interface Input	No					
AQ Shift Selector Display Blanking Input	Yes					
AR Overdrive Disable Interface Input	Yes	161	161			
AS Neutral at Stop Input	No		143	123	123	123
AW 2nd Reverse Input	No					
BD Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes					
BS Grade Braking/Regenerative Input	No					
BY Aux. Box Transition Input	Yes					
BZ Shift Selector Transition & Oil Field Pumping Input	Yes					
CA Automatic Neutral – Brake-Based (BBAN) Input for PTO	No					
CB1 Preselect Request 1 Input	Yes	122	122			
CB2 Preselect Request 2 Input	Yes					
CC High N/V Ratio Input	No					
CD Automatic Neutral – Single Input with Selector Override	Yes					
CE Direct Hold Input	No					
CF Automatic Neutral – Idle Start/Stop Input	Yes					
CH Automatic Neutral – Single Input, Inverted	No					
CN Automatic Neutral – Dual Input with Automatic Return-to-Range	No					
OUTPUT FUNCTIONS						
A Engine Brake Interface Output	No	104	104	104	104	104
B Sump/Retarder Temperature Indicator	Yes	164	164	164	164	164
C Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145	145	145
D Output Speed Indicator A	Yes	105	105	105	105	105
G1 **PTO Drive Interface 1 Indicator	Yes	150	150		130	130
G2 **PTO Drive Interface 2 Indicator	No					
I Engine Overspeed Indicator	Yes			130		
J Two Speed Axle Interface Indicator	Yes					
K Lockup Indicator	Yes					
N Secondary Mode Indicator	Yes			113	113	
O Transmission Service Indicator	Yes	113	113			
Q Retarder Interface Indicator	Yes			124	124	124
R Differential Clutch Interface Indicator (3700 Only)	Yes					
S Neutral Indicator for PTO and PTO Request (NIPTO)	Yes					
AD Range Inhibited Indicator	Yes	124	124			
AJ Output Speed Indicator A, Inverted	Yes					

* Additional packages available. Please reference Tech Data. ** PTOS are not available with HS Series hardware even though the wire option is shown in the package.

**Motorhome Series™**

The Allison Motorhome Series™ automatic transmissions make motorhomes of any size perform better and handle easier under any road or load condition. Allison Automatics deliver the power, control and traction to help you handle any situation.

ALLISON TRANSMISSION MOTORHOME SERIES™

RATINGS									
MODEL	SERIAL NUMBER	RATIO	PARK PAWL	MAX INPUT POWER ¹ hp (kW)	MAX INPUT TORQUE ¹ lb-ft (N•m)	MAX INPUT TORQUE w/SEM TORQUE LIMITING ^{1,2} lb-ft (N•m)	MAX TURBINE TORQUE ³ lb-ft (N•m)	MAX GVW lbs (kg)	MAX GCW lbs (kg)
1000 MH	6310 MH	Close Ratio	Yes	340 ^{4,5} (254) ^{4,5}	575 (780)	660 ^{4,5} (895) ^{4,5}	950 ⁴ (1288) ⁴	22,000 (10,000)	26,000 (11,800)
1000 MH xFE	6310 MH	Close Ratio	Yes	340 ^{4,5} (254) ^{4,5}	575 (780)	660 ^{4,5} (895) ^{4,5}	950 ⁴ (1288) ⁴	22,000 (10,000)	26,000 (11,800)
1350 MH	6310 MH	Close Ratio	Yes	340 ^{4,5} (254) ^{4,5}	575 (780)	660 ^{4,5} (895) ^{4,5}	950 ⁴ (1288) ⁴	22,000 (10,000)	30,000 (13,600)
1350 MH xFE	6310 MH	Close Ratio	Yes	340 ^{4,5} (254) ^{4,5}	575 (780)	660 ^{4,5} (895) ^{4,5}	950 ⁴ (1288) ⁴	22,000 (10,000)	30,000 (13,600)
2100 MH	6310 MH	Close Ratio	No	340 ^{4,5} (254) ^{4,5}	575 (780)	700 ^{4,7} (950) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	30,000 (13,600)
2100 MH xFE	6310 MH	Close Ratio	No	340 ^{4,5} (254) ^{4,5}	575 (780)	700 ^{4,7} (950) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	30,000 (13,600)
2200 MH	6310 MH	Close Ratio	Yes	340 ^{4,5} (254) ^{4,5}	575 (780)	700 ^{4,7} (950) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2200 MH xFE	6310 MH	Close Ratio	Yes	340 ^{4,5} (254) ^{4,5}	575 (780)	700 ^{4,7} (950) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2350 MH	6310 MH	Close Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	700 ^{4,7} (950) ^{4,7}	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
2350 MH xFE	6310 MH	Close Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	700 ^{4,7} (950) ^{4,7}	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
2500 MH	6310 MH	Wide Ratio	No	340 ^{4,5} (254) ^{4,5}	575 (780)	700 ^{4,5,6} (950) ^{4,5,6}	950 ⁴ (1288) ⁴	33,000 (15,000)	33,000 (15,000)
2500 MH xFE	6310 MH	Wide Ratio	No	340 ^{4,5} (254) ^{4,5}	575 (780)	700 ^{4,5,6} (950) ^{4,5,6}	950 ⁴ (1288) ⁴	33,000 (15,000)	33,000 (15,000)
2550 MH	6310 MH	Wide Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	700 ^{4,7} (950) ^{4,7}	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
2550 MH xFE	6310 MH	Wide Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	700 ^{4,7} (950) ^{4,7}	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
3000 MH	6510 MH	Close Ratio	N/A	450 (336)	1250 (1695)	N/A	1700 (2305)	—	—
4000 MH	6610 MH	Close Ratio	N/A	650 (485)	1950 (2644)	N/A	2800 (3795)	—	—

¹ Gross ratings as defined by ISO 1585 or SAE J1995. ² SEM = engine controls with Shift Energy Management. ³ Turbine torque limit based on iSCAAN standard deductions.

⁴ Available in gears three through five. ⁵ With 5th Gen controls. In ranges three through five.

⁴ SEM and torque limiting are required to obtain this rating. ⁵ Check with your OEM to ensure offerings.

MOTORHOME SERIES™ FEATURES AND ADVANTAGES

Shift Energy Management (SEM) with torque limiting

Ratings up to 340 hp/660 lb-ft on 1000 and 1350 MH.
Ratings up to 340 hp/700 lb-ft on 2100, 2200, 2350, 2500 and 2550 MH.

PTO option available

All Motorhome Series™ models.

Deep oil sump/pan standard

Shallow pan option available on 1000 MH.

Oil Level Sensor

At the push of a button, oil levels are displayed on shift selectors for easy identification. Standard on 3000 and 4000 MH.

Prognostics

Eliminates unnecessary oil and filter changes by monitoring various operating parameters to determine and alert when a specific maintenance function is required.

Neutral at Stop

Automatically eliminates the load on the engine when the vehicle is at a full stop to save fuel and reduce overall vehicle emissions.

Acceleration Rate Management

Mitigates aggressive driving by controlling engine torque based on the vehicle's grade and load.

DynActive™ Shifting

New innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on specs, vehicle and environmental parameters.

TYPICAL VEHICLE APPLICATIONS

Type A and Bus Conversion Motorhomes Class 5–8

Type C Motorhomes Class 4–5

Motorhomes

Entertainer Travel Coaches

Class 6–8 Type C Motorhomes require Truck RV Series



MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- Motorhome Series™ Individual Brochure

GENERAL BROCHURES

- Prognostics Brochure
- Residual Value Brochure
- Startability Flyer
- Shift Selector Operation and Code Manual
- Fluid and Filter Change Recommendations
- Motorhome Tips
- Torque Converter Brochure
- Retarder Brochure
- FMCA Testimonial Flyer
- Dreyer and Reinbold Racing Testimonial Flyer

VIDEOS

- Allison At Work
- How an Allison Automatic Performs
- FMCA Testimonial
- Dreyer and Reinbold Racing Testimonial

MOTORHOME SERIES™ I/O Packages*

VOCATION PACKAGE NUMBER	1000/2000 PRODUCT FAMILIES		3000/4000 PRODUCT FAMILIES	
	Motorhome		Motorhome	
	354	374	223	226
INPUT FUNCTIONS				
A Secondary Mode Input	Yes	142	142	M
C1 PTO Drive Interface Input 1	Yes	143	162	143
C2 PTO Drive Interface Input 2	No			
D Shift Selector Transition Input	No			
E Auxiliary Function Range Inhibit – Single Input	No	101	101	101
F Auxiliary Function Range Inhibit – Dual Input	Yes			
G Auxiliary Hold Input	Yes		142	142
H Engine Brake Interface Input (Standard)	No	102	102	102/157
I Engine Brake Interface Input (Special)	No			
J Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No			
K Quick-to-Neutral Input	No			
L Automatic Neutral – Single Input	No	123	123	117
Q Two Speed Axle Interface Input	Yes			
R Manual Lockup Control Input	No			
V Reverse Enable Input	No			
W Direction Change Enable Input	No		122	122
Y Anti-Lock Brake System (ABS) Input	Yes	121	121	121
Z Retarder Interface Input	Yes		161	161
AA Service Brake Status Input	Yes	162		162
AF Differential Clutch Interface Input (3700 Only)	Yes			
AG Automatic Neutral – Dual Input	Yes			
AH Accelerator Pedal Kickdown Input	Yes			
AI Aux. Function Range Inhibit – Single Input (Specialty Vehicle)	No			
AJ Pump Mode Input (4th Lockup)	No			
AK Automatic Neutral – Dual Input with Service Brake Status	Yes			
AL Shift Selector Transition & Secondary Shift Schedule Input	Yes			
AM Reverse Inhibit with Preselect Request Interface Input	No			
AQ Shift Selector Display Blanking Input	Yes			
AR Overdrive Disable Interface Input	Yes	161	161	
AS Neutral at Stop Input	No		143	123
AW 2nd Reverse Input	No		179	
BD Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes			
BS Grade Braking/Regenerative Input	No			
BY Aux. Box Transition Input	Yes			
BZ Shift Selector Transition & Oil Field Pumping Input	Yes			
CA Automatic Neutral – Brake-Based (BBAN) Input for PTO	No			
CB1 Preselect Request 1 Input	Yes	122	122	
CB2 Preselect Request 2 Input	Yes			
CC High N/V Ratio Input	No			
CD Automatic Neutral – Single Input with Selector Override	Yes			
CE Direct Hold Input	No			
CF Automatic Neutral – Idle Start/Stop Input	Yes			
CH Automatic Neutral – Single Input, Inverted	No			
CN Automatic Neutral – Dual Input with Automatic Return-to-Range	No			
OUTPUT FUNCTIONS				
A Engine Brake Interface Output	No	104	104	104
B Sump/Retarder Temperature Indicator	Yes	164	164	164
C Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145
D Output Speed Indicator A	Yes	105	105	105
G1 PTO Drive Interface 1 Indicator	Yes	150	150	130
G2 PTO Drive Interface 2 Indicator	No			
I Engine Overspeed Indicator	Yes			130
J Two Speed Axle Interface Indicator	Yes			
K Lockup Indicator	Yes			
N Secondary Mode Indicator	Yes		113	113
O Transmission Service Indicator	Yes	113	113	
Q Retarder Interface Indicator	Yes		124	124
R Differential Clutch Interface Indicator (3700 Only)	Yes			
S Neutral Indicator for PTO and PTO Request (NIPTO)	Yes			
AD Range Inhibited Indicator	Yes	124	124	
AJ Output Speed Indicator A, Inverted	Yes			

* Additional packages available. Please reference Tech Data.



Bus Series™

Allison's Bus Series™ automatic transmissions help put your vehicles and your business on schedule for superior operating economies, improved vehicle performance and better passenger comfort.

ALLISON TRANSMISSION BUS SERIES™

RATINGS										
MODEL	SERIAL NUMBER	RATIO	PARK PAWL	MAX INPUT POWER ¹ w/o SEM hp (kW)	MAX INPUT POWER w/SEM TORQUE LIMITING ^{1,2} hp (kW)	MAX INPUT TORQUE ¹ w/o SEM lb·ft (N·m)	MAX INPUT TORQUE w/SEM TORQUE LIMITING ^{1,2} lb·ft (N·m)	MAX TURBINE TORQUE ³ lb·ft (N·m)	MAX GVW lbs (kg)	MAX GCW lbs (kg)
B 210	6310									
– Transit		Close Ratio	No	230 (172)	270 (201)	520 (705)	575 (780)	850 (1152)	29,000 (13,150)	29,000 (13,150)
– xFE		Close Ratio	No	230 (172)	270 (201)	520 (705)	575 (780)	850 (1152)	29,000 (13,150)	29,000 (13,150)
B 220	6310									
– Transit		Close Ratio	Yes	230 (172)	270 (201)	520 (705)	575 (780)	850 (1152)	29,000 (13,150)	29,000 (13,150)
– xFE		Close Ratio	Yes	230 (172)	270 (201)	520 (705)	575 (780)	850 (1152)	29,000 (13,150)	29,000 (13,150)
B 295	6510									
– Transit		Close Ratio	N/A	230 (172)	N/A	620 (841)	N/A	1370 (1857)	33,000 (14,968)	33,000 (14,968)
B 300	6510									
– Transit		Close Ratio	N/A	280 (209)	N/A	735 (997)	N/A	1370 (1857)	38,000 (17,236)	38,000 (17,236)
B 400	6510									
– Transit		Close Ratio	N/A	300 (224)	N/A	925 (1254)	N/A	1370 (1857)	45,000 (20,412)	45,000 (20,412)
– Tour Coach		Close Ratio	N/A	330 (246)	N/A	1000 (1356)	N/A	1600 (2170)	45,000 (20,412)	45,000 (20,412)
B 3400 XFE	6510									
– Transit		Close Ratio	N/A	300 (224)	N/A	925 (1254)	N/A	1370 (1857)	45,000 (20,412)	45,000 (20,412)
B 500	6610									
– Transit		Close Ratio	N/A	420 (313)	N/A	1300 (1763)	N/A	2450 (3322)	—	—
– Intercity Coach		Close Ratio	N/A	550 (410)	N/A	1700 (2305)	N/A	2450 (3322)	—	—

1 Gross ratings as defined by ISO 1585 or SAE J1995. 2 SEM = engine controls with Shift Energy Management. 3 Turbine torque limit based on iSCAAN standard deductions.

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- City Bus Vocational Brochure
- Bus Series Individual Brochure (English)
- Bus Series Individual Brochure (Spanish)
- Bus Series Individual Brochure (French)

GENERAL BROCHURES

- Prognostics Brochure
- Load-Based Shift Scheduling Flyer
- Shift Selector Operation and Code Manual
- Fluid and Filter Change Recommendations
- Torque Converter Brochure
- Retarder Brochure
- PSTA Customer Profile
- xFE Brochure

VIDEOS

- Allison At Work
- How an Allison Automatic Performs
- Greyhound Testimonial
- PSTA Customer Profile

BUS SERIES™ FEATURES AND ADVANTAGES

Shift Energy Management (SEM) with torque limiting

Ratings up to 270 hp/575 lb-ft on B 210 and B 220.

High-density start/stop calibrations

Improves shift operations especially in congested traffic environments. Available on B 210 and B 220.

Neutral at Stop

Automatically eliminates the load on the engine when the vehicle is at a full stop to save fuel and reduce overall vehicle emissions.

Prognostics

Eliminates unnecessary oil and filter changes by monitoring various operating parameters to determine and alert when a specific maintenance function is required.

Acceleration Rate Management

Mitigates aggressive driving by controlling engine torque based on the vehicle's grade and load.

DynActive™ Shifting

New innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on specs, vehicle and environmental parameters.

xFE

xFE models are designed to lock up at lower speeds specifically for the constant shifting and lower average speeds of city and transit buses. xFE models can improve fuel economy by up to 7 percent, depending on duty cycle.*

*Results depend on duty cycle. xFE provides maximum fuel savings in high start-stop duty-cycles with low average speeds. Contact your Allison representative to ensure xFE is the best choice for your specific need.



B 210, B 220, B 295

B 300, B 400,
B 3400 XFE

B 500

TYPICAL VEHICLE APPLICATIONS

Revenue-Generating/ FTA Transit Bus Applications

Transit Bus

Intercity Bus less than 53,000 lbs GVW

Tour Coach

Shuttle Bus over 33,000 lbs GVW

BUS SERIES™ I/O Packages*

VOCATION PACKAGE NUMBER	Default Enabled?	1000/2000 PRODUCT FAMILIES		3000/4000 PRODUCT FAMILIES			
		Bus Models		Transit Bus and Intercity Coach (Maximum Economy Calibration)			
		354	374	148	159	235	262
INPUT FUNCTIONS							
A Secondary Mode Input	Yes	142	142	M	M	142	M
C1 PTO Drive Interface Input 1	Yes	143	162	143		M	
C2 PTO Drive Interface Input 2	No						
D Shift Selector Transition Input	No						
E Auxiliary Function Range Inhibit – Single Input	No	101	101	101	101	101	101
F Auxiliary Function Range Inhibit – Dual Input	Yes						
G Auxiliary Hold Input	Yes			142	142		142
H Engine Brake Interface Input (Standard)	No	102	102	102/157	102/157	102/157	102/157
I Engine Brake Interface Input (Special)	No						
J Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No						
K Quick-to-Neutral Input	No						
L Automatic Neutral – Single Input	No	123	123	117	117	117	
Q Two Speed Axle Interface Input	Yes						
R Manual Lockup Control Input	No						
V Reverse Enable Input	No						
W Direction Change Enable Input	No			143	143	143	
Y Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121	121
Z Retarder Interface Input	Yes			161	161	161	161
AA Service Brake Status Input	Yes	162		162	162	162	162
AF Differential Clutch Interface Input (3700 Only)	Yes						
AG Automatic Neutral – Dual Input	Yes						
AH Accelerator Pedal Kickdown Input	Yes			122	122	122	122
AI Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No						
AJ Pump Mode Input (4th Lockup)	No						
AK Automatic Neutral – Dual Input with Service Brake Status	Yes						
AL Shift Selector Transition & Secondary Shift Schedule Input	Yes						
AM Reverse Inhibit with Preselect Request Interface Input	No						
AQ Shift Selector Display Blanking Input	Yes						
AR Overdrive Disable Interface Input	Yes	161	161				
AS Neutral at Stop Input	No		143	123	123	123	123
AW 2nd Reverse Input	No						
BD Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes						
BS Grading Branding/Regenerative Input	No						
BY Aux. Box Transition Input	Yes						
BZ Shift Selector Transition & Oil Field Pumping Input	Yes						
CA Automatic Neutral – Brake-Based (BBAN) Input for PTO	No						
CB1 Preselect Request 1 Input	Yes	122	122				
CB2 Preselect Request 2 Input	Yes						
CC High N/V Ratio Input	No						
CD Automatic Neutral – Single Input with Selector Override	Yes						
CE Direct Hold Input	No						
CF Automatic Neutral – Idle Start/Stop Input	Yes						
CH Automatic Neutral – Single Input, Inverted	No						
CN Automatic Neutral – Dual Input with Automatic Return-to-Range	No					117	
OUTPUT FUNCTIONS							
A Engine Brake Interface Output	No	104	104	104	104	104	104
B Sump/Retarder Temperature Indicator	Yes	164	164	164	164	164	164
C Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145	145	145	145
D Output Speed Indicator A	Yes	105	105	105	105	105	105
G1 PTO Drive Interface 1 Indicator	Yes	150	150	130		130	
G2 PTO Drive Interface 2 Indicator	No						
I Engine Overspeed Indicator	Yes			113		113	
J Two Speed Axle Interface Indicator	Yes						
K Lockup Indicator	Yes						
N Secondary Mode Indicator	Yes			130	113	130	
O Transmission Service Indicator	Yes	113	113				
Q Retarder Interface Indicator	Yes			124	124	124	124
R Differential Clutch Interface Indicator (3700 Only)	Yes						
S Neutral Indicator for PTO and PTO Request (NIPTO)	Yes						
AD Range Inhibited Indicator	Yes	124	124				
AJ Output Speed Indicator A, Inverted	Yes						

* Additional packages available. Please reference Tech Data.

**Emergency Vehicle Series™**

The Allison Emergency Vehicle Series™ automatic transmissions are designed to meet the performance and safety needs of emergency vehicles. Fully automatic shifts provide faster acceleration, which translates to shorter trip times.



ALLISON TRANSMISSION EMERGENCY VEHICLE SERIES™

RATINGS									
MODEL	SERIAL NUMBER	RATIO	PARK PAWL	MAX INPUT POWER ¹	MAX INPUT TORQUE ¹	MAX INPUT TORQUE w/SEM TORQUE LIMITING ^{1,2}	MAX TURBINE TORQUE ³	MAX GVW	MAX GCW
				hp (kW)	lb-ft (N·m)	lb-ft (N·m)	lb-ft (N·m)	lbs (kg)	lbs (kg)
1000 EVS	6310	Close Ratio	Yes	340 ^{4,6} (254) ^{4,6}	575 (780)	660 ^{4,6} (895) ^{4,6}	950 ⁴ (1288) ⁴	19,500 (8845)	26,000 (11,800)
1350 EVS	6310	Close Ratio	Yes	340 ^{4,6} (254) ^{4,6}	575 (780)	660 ^{4,6} (895) ^{4,6}	950 ⁴ (1288) ⁴	19,500 (8845)	30,000 (13,600)
2100 EVS	6310	Close Ratio	No	340 ^{4,6} (254) ^{4,6}	575 (780)	700 ⁸ (950) ⁸	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2200 EVS	6310	Close Ratio	Yes	340 ^{4,6} (254) ^{4,6}	575 (780)	700 ⁸ (950) ⁸	950 ⁵ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2350 EVS ⁶	6310	Close Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	700 ⁸ (950) ⁸	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
2500 EVS	6310	Wide Ratio	No	340 ^{4,6} (254) ^{4,6}	575 (780)	700 ⁸ (950) ⁸	950 ⁴ (1288) ⁴	33,000 (15,000)	33,000 (15,000)
2550 EVS ⁶	6310	Wide Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	700 ⁸ (950) ⁸	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
3000 EVS	6510	Close Ratio	N/A	450 (336)	1250 (1695)	N/A	1700 (2305)	—	—
3500 EVS	6510	Wide Ratio	N/A	330 (246)	985 (1335)	N/A	1500 (2034)	—	—
4000 EVS	6610								
– Emergency Vehicle		Close Ratio	N/A	600 (447)	1850 (2508)	N/A	2600 (3525)	—	—
– ARFF		Close Ratio	N/A	600 (447)	1675 (2271)	N/A	2600 (3525)	—	—
4500 EVS ⁷	6610	Wide Ratio	N/A	600 (447)	1770 (2400)	1850 ⁵ (2508) ⁵	2600 (3525) ⁵	—	—
4700 EVS	6610								
– ARFF ⁷		Widest Ratio	N/A	600 (447)	1850 (2508)	N/A	2800 (3795)	—	—
4800 EVS	6610								
– ARFF ⁷		Widest Ratio	N/A	700 (522)	1950 (2644)	N/A	2800 (3795)	—	—
4850 EVS	6610								
– ARFF ⁷		Widest Ratio	N/A	770 (574)	1950 (2644)	N/A	2800 (3795)	—	—

1 Gross ratings as defined by ISO 1585 or SAE J1995. 2 SEM = engine controls with Shift Energy Management. 3 Turbine torque limit based on iSCAAN standard deductions. 4 SEM and torque limiting are required to obtain this rating. 5 Available in gears two through six. 6 Check with your OEM to ensure offerings. 7 Aircraft Rescue and Fire-Fighting Vehicle. 8 With 5th Gen controls. In ranges three through five.

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- Fire + Emergency Vocational Brochure

GENERAL BROCHURES

- Prognostics Brochure
- Shift Selector Operation and Code Manual
- Fluid and Filter Change Recommendations
- Retarder Brochure
- 2nd Reverse Flyer
- Torque Converter Brochure
- Manville Fire Department Testimonial Flyer

VIDEOS

- Allison At Work
- How an Allison Automatic Performs
- Manville Fire Department Testimonial
- Hannover Fire Department Testimonial Video
- Power Take-Off (PTO) Video

EMERGENCY VEHICLE SERIES™ FEATURES AND ADVANTAGES

Shift Energy Management (SEM) with torque limiting

Ratings up to 340 hp/660 lb-ft with 5th Gen controls on 1000, 1350, 2100, 2200, 2350, 2500 and 2550 EVS. Ratings up to 600 hp/1850 lb-ft on 4500 EVS.

Oil Level Sensor

At the push of a button, oil levels are displayed on shift selectors for easy identification. Standard on 3000, 3500, 4000, 4500 and 4700 EVS.*

2nd Reverse

Allison 2nd Reverse offers a second "deep reverse" in addition to the standard reverse to provide greater control and engine braking during operation on steep grades. It also enables more maneuverability when operating in confined spaces. Available on 4700 and 4800 EVS models.

Deep oil pan/sump standard on all Emergency Vehicle Series models

Shallow sump with OLS optional on 3000, 3500, 4000 and 4500 EVS. Shallow pan optional on 1000 EVS.

Prognostics

Eliminates unnecessary oil and filter changes by monitoring various operating parameters to determine and alert when a specific maintenance function is required.

*OLS is not available for 4700 EVS with retarder

TYPICAL VEHICLE APPLICATIONS

Any vehicle equipped with emergency signaling such as a siren, light bar, grill signal, porter light, etc. allowing the vehicle to ignore general traffic laws in emergency situations requires an Allison Emergency Vehicle Series™ transmission.

Aerial Ladder Platform

Aircraft Rescue and Fire-Fighting Vehicle

Ambulance

Hazardous Material Vehicle

Mobile Command Center

Fire Truck Pumper – With Split-Shaft PTO

Fire Truck Pumper – Without Split-Shaft PTO

Support Vehicle

EMERGENCY CALIBRATIONS

Emergency Vehicle Series™ calibrated with unique shift inhibit tolerances to meet special needs of emergency vehicles.

Low-voltage detection set at two minutes for emergency cals.

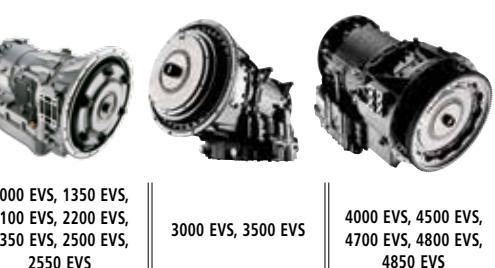
General truck cals will not permit shift into range after 10 seconds.

Emergency cals will not permit a shift into range for engine rpms above 1260.

General truck cals will not permit shift into range above 900 rpm.

No shift inhibit detection of high output speed/high throttle position for emergency cals.

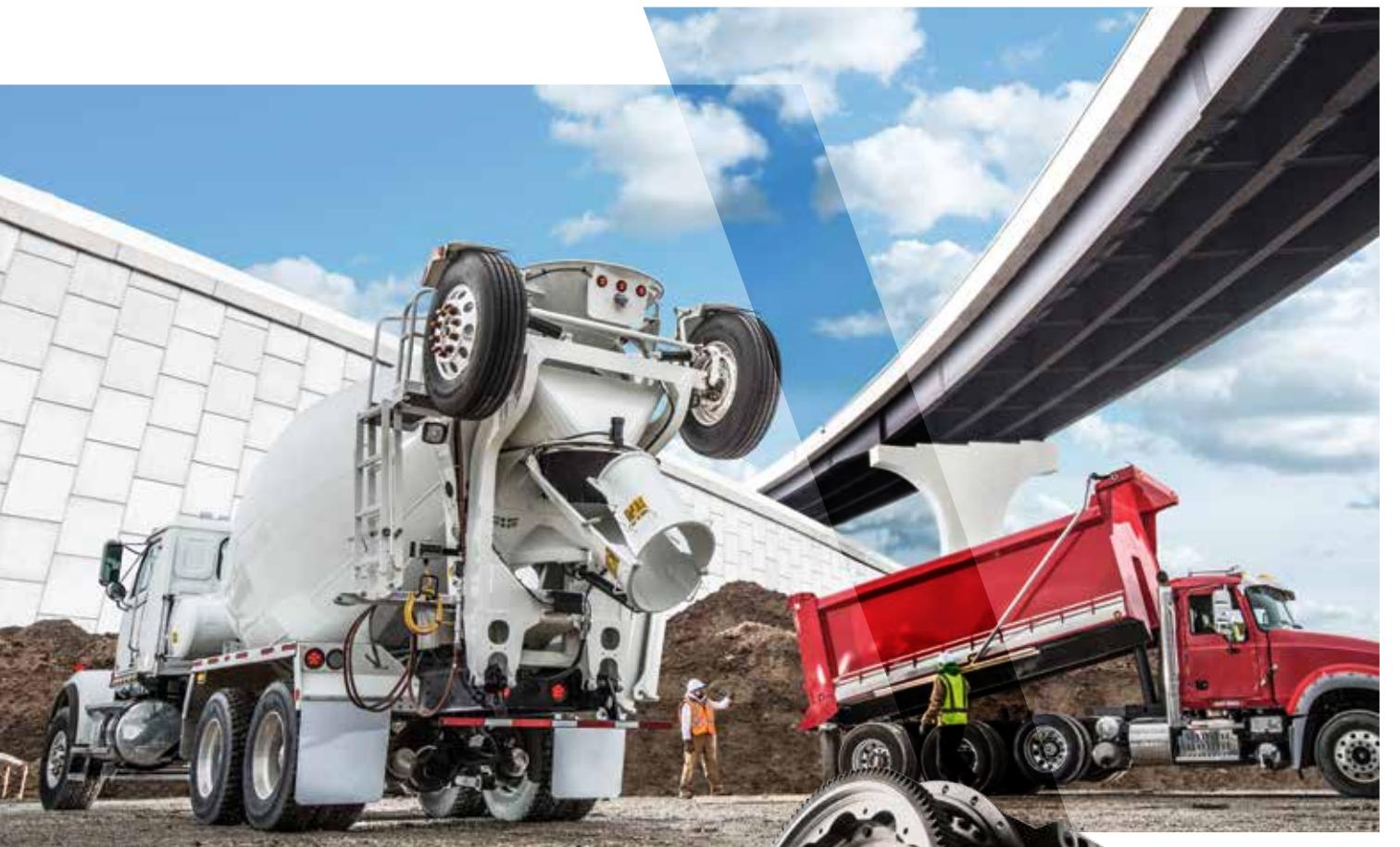
General truck cals will not permit a shift into range when output speed is at or above 200 rpm and/or throttle position is beyond 40%.



EMERGENCY VEHICLE SERIES™ I/O Packages

1000/2000 PRODUCT FAMILIES									
EVS Models									
VOCATION PACKAGE NUMBER		354	360	364	367	368	374	376	380
INPUT FUNCTIONS									
A	Secondary Mode Input	Yes	142	142	142	142	142	142	142
C1	PTO Drive Interface Input 1	Yes	143	143	143	143	143	162	101
C2	PTO Drive Interface Input 2	No							102
D	Shift Selector Transition Input	No							
E	Auxiliary Function Range Inhibit – Single Input	No	101				101		101
F	Auxiliary Function Range Inhibit – Dual Input	Yes							
G	Auxiliary Hold Input	Yes							
H	Engine Brake Interface Input (Standard)	No	102	102		102		102	
I	Engine Brake Interface Input (Special)	No							
J	Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No							
K	Quick-to-Neutral Input	No							
L	Automatic Neutral – Single Input	No	123				123		123
Q	Two Speed Axle Interface Input	Yes							
R	Manual Lockup Control Input	No							
V	Reverse Enable Input	No							
W	Direction Change Enable Input	No							
Y	Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121	121	121
Z	Retarder Interface Input	Yes							
AA	Service Brake Status Input	Yes	162	162	162			162	162
AF	Differential Clutch Interface Input (3700 Only)	Yes							
AG	Automatic Neutral – Dual Input	Yes							
AH	Accelerator Pedal Kickdown Input	Yes							
AI	Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No							
AJ	Pump Mode Input (4th Lockup)	No							
AK	Automatic Neutral – Dual Input with Service Brake Status	Yes							
AL	Shift Selector Transition & Secondary Shift Schedule Input	Yes							
AM	Reverse Inhibit with Preselect Request Interface Input	No							
AQ	Shift Selector Display Blanking Input	Yes							
AR	Overdrive Disable Interface Input	Yes	161	161	161	161	161	161	161
AS	Neutral at Stop Input	No					143	143	
AW	2nd Reverse Input	No							
BD	Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes							
BQ	Pump Mode Input (3rd Lockup)	No		122/123	122/123	122/123	122/123		122/123
BS	Grade Braking/Regenerative Input	No							
BY	Aux. Box Transition Input	Yes							
BZ	Shift Selector Transition & Oil Field Pumping Input	Yes							
CA	Automatic Neutral – Brake-Based (BBAN) Input for PTO	No							
CB1	Preselect Request 1 Input	Yes	122				122		122
CB2	Preselect Request 2 Input	Yes							
CC	High N/V Ratio Input	No		101/102		101/102			
CD	Automatic Neutral – Single Input with Selector Override	Yes			162	162			
CE	Direct Hold Input	No							
CF	Automatic Neutral – Idle Start/Stop Input	Yes							
CH	Automatic Neutral – Single Input, Inverted	No							
CN	Automatic Neutral – Dual Input with Automatic Return-to-Range	No							
OUTPUT FUNCTIONS									
A	Engine Brake Interface Output	No	104	104		104		104	
B	Sump/Retarder Temperature Indicator	Yes	164	164	164	164	164	164	164
C	Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145	145	145	145	145
D	Output Speed Indicator A	Yes	105	105	105	105	105	105	105
G1	PTO Drive Interface 1 Indicator	Yes	150	150	150	150	150	150	150
G2	PTO Drive Interface 2 Indicator	No							104
I	Engine Overspeed Indicator	Yes							
J	Two Speed Axle Interface Indicator	Yes							
K	Lockup Indicator	Yes							
N	Secondary Mode Indicator	Yes							
O	Transmission Service Indicator	Yes	113	113	113	113	113	113	
Q	Retarder Interface Indicator	Yes							
R	Differential Clutch Interface Indicator (3700 Only)	Yes							
S	Neutral Indicator for PTO and PTO Request (NIPTO)	Yes							
AD	Range Inhibited Indicator	Yes	124	124	124	124	124	124	124
AJ	Output Speed Indicator A, Inverted	Yes							

3000/4000 PRODUCT FAMILIES								
With Split-Shaft PTO					Emergency		No Split-Shaft PTO (2nd Reverse Capable)	
VOCATION PACKAGE NUMBER		135	197	198	246	170	227	265
INPUT FUNCTIONS								
A	Secondary Mode Input	Yes	M	142	M	M	M	M
C1	PTO Drive Interface Input 1	Yes	143	M	142	143	143	143
C2	PTO Drive Interface Input 2	No						102
D	Shift Selector Transition Input	No						101
E	Auxiliary Function Range Inhibit – Single Input	No	101					
F	Auxiliary Function Range Inhibit – Dual Input	Yes					101/142	101/142
G	Auxiliary Hold Input	Yes	142					
H	Engine Brake Interface Input (Standard)	No	102/157	102/157	102/157	102/157	102/157	102/157
I	Engine Brake Interface Input (Special)	No						
J	Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No	122/123	122/123	122/123	122/123	122/123	122/123
K	Quick-to-Neutral Input	No						
L	Automatic Neutral – Single Input	No						
Q	Two Speed Axle Interface Input	Yes						
R	Manual Lockup Control Input	No						
V	Reverse Enable Input	No						
W	Direction Change Enable Input	No						
Y	Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121	121
Z	Retarder Interface Input	Yes	161	161	161	161	161	161
AA	Service Brake Status Input	Yes	162	162	162	162	162	162
AF	Differential Clutch Interface Input (3700 Only)	Yes						
AG	Automatic Neutral – Dual Input	Yes						
AH	Accelerator Pedal Kickdown Input	Yes						
AI	Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No						
AJ	Pump Mode Input (4th Lockup)	No						
AK	Automatic Neutral – Dual Input with Service Brake Status	Yes						117/142
AL	Shift Selector Transition & Secondary Shift Schedule Input	Yes						
AM	Reverse Inhibit with Preselect Request Interface Input	No						
AQ	Shift Selector Display Blanking Input	Yes						
AR	Overdrive Disable Interface Input	Yes						
AS	Neutral at Stop Input	No						123
AW	2nd Reverse Input	No						179
BD	Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes						179
BQ	Pump Mode Input (3rd Lockup)	No						
BS	Grade Braking/Regenerative Input	No						
BY	Aux. Box Transition Input	Yes						
BZ	Shift Selector Transition & Oil Field Pumping Input	Yes						
CA	Automatic Neutral – Brake-Based (BBAN) Input for PTO	No						
CB1	Preselect Request 1 Input	Yes						
CB2	Preselect Request 2 Input	Yes						
CC	High N/V Ratio Input	No						
CD	Automatic Neutral – Single Input with Selector Override	Yes			117	117	117	117
CE	Direct Hold Input	No						
CF	Automatic Neutral – Idle Start/Stop Input	Yes						
CH	Automatic Neutral – Single Input, Inverted	No						
CN	Automatic Neutral – Dual Input with Automatic Return-to-Range	No						
OUTPUT FUNCTIONS								
A	Engine Brake Interface Output	No	104	104	104	104	104	104
B	Sump/Retarder Temperature Indicator	Yes	164	164	164	164	164	164
C	Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145	145	145	113
D	Output Speed Indicator A	Yes	105	105	105	105	105	105
G1	PTO Drive Interface 1 Indicator	Yes	130	130	130	130	130	130
G2	PTO Drive Interface 2 Indicator	No						104
I	Engine Overspeed Indicator	Yes						
J	Two Speed Axle Interface Indicator	Yes						
K	Lockup Indicator	Yes						
N	Secondary Mode Indicator	Yes						113
O	Transmission Service Indicator	Yes						164
Q	Retarder Interface Indicator	Yes	124	124	124	124	124	124
R</td								



Rugged Duty Series™

Your trucks and drivers don't lead a pampered life. They travel bad roads, back roads and to places that have no roads. Their performance and productivity rise to a whole new level when you spec Allison Rugged Duty Series™ automatic transmissions.

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- Rugged Duty Series Individual Brochure (English)
- Rugged Duty Series Individual Brochure (Spanish)
- Rugged Duty Series Individual Brochure (French)

GENERAL BROCHURES

- Refuse Vocational Brochure
- Construction Vocational Brochure
- Superior Fuel Efficiency. Optimum Fuel Economy.
- Prognostics Brochure
- Residual Value Brochure
- 2nd Reverse Flyer
- Startability Flyer
- Shift Selector Operation and Code Manual
- Fluid and Filter Change Recommendations
- Retarder Brochure
- Torque Converter Brochure
- TranSynd® Maximum Protection Flyer
- Tractor Vocational Brochure
- Northern Energy Testimonial Flyer
- U.S. Concrete Testimonial Flyer
- Van Dyke Testimonial Flyer
- RMC Testimonial Flyer
- A&C Trucking Testimonial Flyer

VIDEOS

- A&C Trucking Testimonial
- Allison At Work
- How an Allison Automatic Performs
- Pea Gravel Demo
- Backing Down Grades
- Construction
- Northern Energy Testimonial
- U.S. Concrete Testimonial
- Dunning Sand & Gravel Testimonial
- Canadian Logging Testimonial
- Van Dyke Testimonial
- RMC Testimonial

TYPICAL VEHICLE APPLICATIONS

Airport Support

Baggage Transport Vehicle

Concrete Mixer

Concrete Pumper

Dump Truck

Equipment Hauler

Farm/Agriculture

Refuse Front Loader – Landfill

Refuse Front Loader – No Landfill

Heavy Equipment Transport (HET)

Liquid Waste Hauler

Materials Hauler

Municipal Services Maintenance Vehicle

Packing Recycling Truck

Public Utility Vehicle

Rear Loader – Landfill

Rear Loader – No Landfill

Roll On/Roll Off – Landfill

Roll On/Roll Off – No Landfill

Sewer/Septic Vacuum – Landfill

Sewer/Septic Vacuum – No Landfill

Refuse Side Loader – Landfill

Refuse Side Loader – No Landfill

Special Snow Removal Vehicle

Street Cleaning Vehicle

Transfer/Relocation Vehicle

Wood Chip Hauler

Wrecker

Yard Tractor/Spotter

ALLISON TRANSMISSION RUGGED DUTY SERIES™

RATINGS									
MODEL	SERIAL NUMBER	RATIO	PARK PAWL	MAX INPUT POWER ¹	MAX INPUT TORQUE ¹	MAX INPUT TORQUE w/SEM TORQUE LIMITING ^{1,2}	MAX TURBINE TORQUE ³	MAX GVW	MAX GCW
				hp (kW)	lb-ft (N•m)	lb-ft (N•m)	lb-ft (N•m)	lbs (kg)	lbs (kg)
1000 RDS	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	19,500 (8845)	26,000 (11,800)
- xFE	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	19,500 (8845)	26,000 (11,800)
1350 RDS	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	19,500 (8845)	30,000 (13,600)
- xFE	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	19,500 (8845)	30,000 (13,600)
2100 RDS	6310	Close Ratio	No	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
- xFE	6310	Close Ratio	No	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2200 RDS	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
- xFE	6310	Close Ratio	Yes	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	26,000 (11,800)	26,000 (11,800)
2300 RDS ⁵	6310	Close Ratio	No	365 ⁴ (272) ⁴	N/A	510 ⁴ (691) ⁴	950 ⁴ (1288) ⁴	33,000 (15,000)	33,000 (15,000)
2350 RDS ⁷	6310	Close Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	660 ⁴ (895) ⁴	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
- xFE	6310	Close Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	660 ⁴ (895) ⁴	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
2500 RDS	6310								
- On-/Off-Highway		Wide Ratio	No	340 ^{4,7} (254) ^{4,7}	575 (780)	660 ^{4,7} (895) ^{4,7}	950 ⁴ (1288) ⁴	33,000 (15,000)	33,000 (15,000)
- Refuse		Wide Ratio	No	300 (224)	550 (746)	565 ⁴ (766) ⁴	950 ⁴ (1288) ⁴	24,200 (11,000)	24,200 (11,000)
- xFE		Wide Ratio	No	340 ⁴ (254) ⁴	575 (780)	660 ⁴ (895) ⁴	950 ⁴ (1288) ⁴	24,200 (11,000)	24,200 (11,000)
2550 RDS ⁷	6310	Wide Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	660 ⁴ (895) ⁴	950 ⁴ (1288) ⁴	33,000 (15,000)	33,000 (15,000)
- xFE	6310	Wide Ratio	Yes	340 ⁴ (254) ⁴	575 (780)	660 ⁴ (895) ⁴	950 ⁴ (1288) ⁴	30,000 (13,600)	30,000 (13,600)
3000 RDS	6510								
- On-/Off-Highway		Close Ratio	N/A	370 (276)	1100 (1491)	1250 ^{6,7} (1695) ^{6,7}	1600 (2169)	80,000 (36,288)	80,000 (36,288)
- Mixer		Close Ratio	N/A	370 (276)	1100 (1491)	1250 ^{6,7} (1695) ^{6,7}	1600 (2169)	62,000 (28,123)	—
- Refuse		Close Ratio	N/A	370 (276)	1100 (1491)	1250 ^{6,7} (1695) ^{6,7}	1600 (2169)	62,000 (28,123)	—
- Specialty PTO/HET		Close Ratio	N/A	370 (276)	1250 ⁷ (1695) ⁷	N/A	1700 (2305)	—	—
3500 RDS	6510								
- On-/Off-Highway		Wide Ratio	N/A	330 (246)	860 (1166)	1050 ⁸ (1424) ⁸	1450 ⁴ (1966) ⁴	80,000 (36,288)	80,000 (36,288)
- Mixer/Refuse		Wide Ratio	N/A	330 (246)	860 (1166)	N/A	1420 (1925)	60,000 (27,216)	—
- Specialty PTO		Wide Ratio	N/A	330 (246)	950 (1288)	1050 ⁸ (1424) ⁸	1450 (1966)	—	—
- HET		Wide Ratio	N/A	330 (246)	985 (1335)	1050 ⁸ (1424) ⁸	1450 (1966)	—	—
4000 RDS	6610								
- On-/Off-Highway		Close Ratio	N/A	565 ¹¹ (421) ¹¹	1770 (2400)	1850 ¹⁰ (2508) ¹⁰	2600 (3525)	—	—
- Refuse		Close Ratio	N/A	500 (373)	1550 (2102)	N/A	2450 (3322)	—	—
- Specialty PTO		Close Ratio	N/A	565 (421)	1770 (2400)	N/A	2600 (3525)	—	—
- HET		Close Ratio	N/A	600 (447)	1850 (2508)	N/A	2600 (3525)	—	—
4500 RDS	6610								
- On-/Off-Highway		Wide Ratio	N/A	565 ¹¹ (421) ¹¹	1650 (2237)	1850 ¹⁰ (2508) ¹⁰	2450 (3322)	—	—
- Refuse		Wide Ratio	N/A	500 (373)	1550 (2102)	N/A	2450 (3322)	—	—
- Specialty PTO		Wide Ratio	N/A	565 ¹¹ (421) ¹¹	1650 (2237)	1770 ⁸ (2400) ⁸	2600 (3525)	—	—
- HET		Wide Ratio	N/A	600 ¹¹ (447) ¹¹	1650 (2237)	1850 ⁸ (2508) ⁸	2600 (3525)	—	—
4700 RDS	6610								
- On-/Off-Highway		Widest Ratio	N/A	565 ¹¹ (421) ¹¹	1770 (2400)	1850 ⁹ (2508) ⁹	2600 (3525)	—	—

1 Gross ratings as defined by ISO 1585 or SAE J1995. 2 SEM = engine controls with Shift Energy Management. 3 Turbine torque limit based on iSCAAN standard deductions. 4 SEM and torque limiting are required to obtain this rating. 5 Only available for VORTEC 8-1L gasoline powered engine applications. 6 Requires Allison Transmission engine-transmission combination approval. Only available in gears three through six. 7 Check with your OEM to ensure offerings. 8 Available in gears two through six. 9 Only available in gears four through seven. 10 Only available in gears three through six. 11 With and without torque limiting.

RUGGED DUTY SERIES™ FEATURES AND ADVANTAGES

Shift Energy Management (SEM) with torque limiting
Ratings up to 340 hp/660 lb-ft on 1000, 1350, 2100, 2200, 2350, 2500 and 2550 RDS.

Ratings up to 365 hp/510 lb-ft on 2300 RDS for On-/Off-Highway applications.
Ratings up to 300 hp/565 lb-ft on 2500 RDS for Refuse applications.

Ratings up to 370 hp/1250 lb-ft on 3000 RDS for On-/Off-Highway, Mixer, and Refuse applications.
Ratings up to 565 hp/1850 lb-ft on 4500 RDS for On-/Off-Highway applications.

Ratings up to 600 hp/1850 lb-ft on 4500 RDS for HET applications.
Oil Level Sensor

At the push of a button, oil levels are displayed on shift selectors for easy identification. Standard 3000, 3500, 4000, 4500 and 4700 RDS.*

PTO delete option
Available on 3000, 3500, 4000 and 4500 RDS.

Deep oil pan/sump
Standard for all Rugged Duty Series™ models.

Prognostics
Eliminates unnecessary oil and filter changes by monitoring various operating parameters to determine and alert when a specific maintenance function is required.

2nd Reverse
Allison 2nd Reverse offers a second "deep reverse" in addition to the standard reverse to provide greater control and engine braking during operation on steep grades. It also enables more maneuverability when operating in confined spaces.

Acceleration Rate Management
Mitigates aggressive driving by controlling engine torque based on the vehicle's grade and load.

Neutral at Stop
Automatically eliminates the load on the engine when the vehicle is at a full stop to save fuel and reduce overall vehicle emissions.

DynActive™ Shifting
New innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on specs, vehicle and environmental parameters.

*OLS is not available for 4700 RDS with retarder



1000 RDS, 1350 RDS,
2100 RDS, 2200 RDS,
2300 RDS, 2350 RDS,
2500 RDS, 2550 RDS

3000 RDS,
3500 RDS

4000 RDS, 4500 RDS,
4700 RDS

RUGGED DUTY SERIES™ I/O Packages*

VOCATION PACKAGE NUMBER		1000/2000 PRODUCT FAMILIES					3000/4000 PRODUCT FAMILIES										
		RDS Models					On/Off-Highway (2nd Reverse Capable)										
INPUT FUNCTIONS	Default Enabled?	354	360	365	374	376	223	224	235	236	263	146	175	167	169	180	225
A Secondary Mode Input	Yes	142	142	142	142	142										M M 142 M M M 122 142 M M M M	
C1 PTO Drive Interface Input 1	Yes	143	143	143	162	101										143 143 143 143 143 143 143 143 143 143	
C2 PTO Drive Interface Input 2	No																
D Shift Selector Transition Input	No																
E Auxiliary Function Range Inhibit – Single Input	No	101		101	101												
F Auxiliary Function Range Inhibit – Dual Input	Yes																
G Auxiliary Hold Input	Yes																
H Engine Brake Interface Input (Standard)	No	102	102		102	102										102/157 102/157 102/157 102/157 102/157 102/157 102/157 102/157 102/157 102/157	
I Engine Brake Interface Input (Special)	No																
J Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No																
K Quick-to-Neutral Input	No																
L Automatic Neutral – Single Input	No	123		123	123												
Q Two Speed Axle Interface Input	Yes																
R Manual Lockup Control Input	No																
V Reverse Enable Input	No																
W Direction Change Enable Input	No																
Y Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121											
Z Retarder Interface Input	Yes																
AA Service Brake Status Input	Yes	162	162	162		162											
AF Differential Clutch Interface Input (3700 Only)	Yes																
AG Automatic Neutral – Dual Input	Yes																
AH Accelerator Pedal Kickdown Input	Yes																
AI Aux. Function Range Inhibit – Single Input (Specialty Vehicle)	No																
AJ Pump Mode Input (4th Lockup)	No																
AK Automatic Neutral – Dual Input with Service Brake Status	Yes																
AL Shift Selector Transition & Secondary Shift Schedule Input	Yes																
AM Reverse Inhibit with Preselect Request Interface Input	No																
AQ Shift Selector Display Blanking Input	Yes																
AR Overdrive Disable Interface Input	Yes	161	161	161	161	161											
AS Neutral at Stop Input	No					143	143										
AW 2nd Reverse Input	No																
BD Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes																
BQ Pump Mode Input (3rd Lockup)	No		122/123				122/123										
BS Grade Braking/Regenerative Input	No																
BY Aux. Box Transition Input	Yes																
BZ Shift Selector Transition & Oil Field Pumping Input	Yes																
CA Automatic Neutral – Brake-Based (BBAN) Input for PTO	No																
CB1 Preselect Request 1 Input	Yes	122				122											
CB2 Preselect Request 2 Input	Yes																
CC High N/V Ratio Input	No			102/122													
CD Automatic Neutral – Single Input with Selector Override	Yes																
CE Direct Hold Input	No																
CF Automatic Neutral – Idle Start/Stop Input	Yes																
CH Automatic Neutral – Single Input, Inverted	No																
CN Automatic Neutral – Dual Input with Automatic Return-to-Range	No																
OUTPUT FUNCTIONS																	
A Engine Brake Interface Output	No	104	104		104	104											
B Sump/Retarder Temperature Indicator	Yes	164	164	164	164	164											
C Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145	145	145											
D Output Speed Indicator A	Yes	105	105	105	105	105											
G1 PTO Drive Interface 1 Indicator	Yes	150	150	150	150	150											
G2 PTO Drive Interface 2 Indicator	No																
I Engine Overspeed Indicator	Yes																
J Two Speed Axle Interface Indicator	Yes																
K Lockup Indicator	Yes																
N Secondary Mode Indicator	Yes																
O Transmission Service Indicator	Yes	113	113	113	113	113											
Q Retarder Interface Indicator	Yes																
R Differential Clutch Interface Indicator (3700 Only)	Yes																
S Neutral Indicator for PTO and PTO Request (NIPTO)	Yes																
AD Range Inhibited Indicator	Yes	124	124	124	124	124											
AJ Output Speed Indicator A, Inverted	Yes																

* Additional packages available. Please reference Tech Data.

VOCATION PACKAGE NUMBER		3000/4000 PRODUCT FAMILIES				
		On/Off-Highway (2nd Reverse Capable)				
INPUT FUNCTIONS	Default Enabled?	223	224	235	236	263
A Secondary Mode Input	Yes	M	M	142	M	M
C1 PTO Drive Interface Input 1	Yes	143	143	M	143	143
C2 PTO Drive Interface Input 2	No					102
D Shift Selector Transition Input	No					
E Auxiliary Function Range Inhibit – Single Input	No	101	101	101	101	101
F Auxiliary Function Range Inhibit – Dual Input	Yes					
G Auxiliary Hold Input	Yes	142	142	142	142	142
H Engine Brake Interface Input (Standard)	No	102/157	102/157	102/157	102/157	102/157
I Engine Brake Interface Input (Special)	No					
J Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No					
K Quick-to-Neutral Input	No					
L Automatic Neutral – Single Input	No	117		117	117	117
Q Two Speed Axle Interface Input	Yes					142
R Manual Lockup Control Input	No					101
V Reverse Enable Input	No					117
W Direction Change Enable Input	No	122	122	143	122	122
Y Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121
Z Retarder Interface Input	Yes	161	161	161	161	161
AA Service Brake Status Input	Yes	162	162	162	162	162
AF Differential Clutch Interface Input (3700 Only)	Yes					
AG Automatic Neutral – Dual Input	Yes					
AH Accelerator Pedal Kickdown Input	Yes					101/142
AI Aux. Function Range Inhibit – Single Input (Specialty Vehicle)	No					
AJ Pump Mode Input (4th Lockup)	No					
AK Automatic Neutral – Dual Input with Service Brake Status	Yes					
AL Shift Selector Transition & Secondary Shift Schedule Input	Yes					
AM Reverse Inhibit with Preselect Request Interface Input	No					123
AQ Shift Selector Display Blanking Input	Yes					123
AS Neutral at Stop Input	No	123	123	123	123	123
AW 2nd Reverse Input	No	179	179	179	179	179

RUGGED DUTY SERIES™ I/O Packages*

VOCATION PACKAGE NUMBER		3000/4000 PRODUCT FAMILIES														
		Refuse with Auto-Neutral			Refuse w/Auto-Neutral & Service Brake		Premium Utility with Split-Shaft PTO				Premium Utility with Soft-Start for Split-Shaft PTO					
		142	145	183	168	170	149	150	172	216	266	219	220	221	222	267
INPUT FUNCTIONS	Default Enabled?															
A Secondary Mode Input	Yes	M	122			M	142	M	142	M	142	142	M	142	M	142
C1 PTO Drive Interface Input 1	Yes	143	143	143	143	143	M		M	143	M	M		M	143	M
C2 PTO Drive Interface Input 2	No										102					102
D Shift Selector Transition Input	No	101	101			101			101		157			101		157
E Auxiliary Function Range Inhibit – Single Input	No						101	101		101	101	101	101	101	101	101
F Auxiliary Function Range Inhibit – Dual Input	Yes															
G Auxiliary Hold Input	Yes															
H Engine Brake Interface Input (Standard)	No	102/157	102/157	102/157	102/157	102/157	102/157	102/157	102/157	102/157	102/157	102/157	102/157	102/157	102/157	102/157
I Engine Brake Interface Input (Special)	No															
J Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No															
K Quick-to-Neutral Input	No															
L Automatic Neutral – Single Input	No															
Q Two Speed Axle Interface Input	Yes															
R Manual Lockup Control Input	No															
V Reverse Enable Input	No							117		117			117		117	
W Direction Change Enable Input	No						117	117		117	179	117	117		117	179
Y Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121
Z Retarder Interface Input	Yes	161	161	161	161	161	161	161	161	161	161	161	161	161	161	161
AA Service Brake Status Input	Yes	162	162	162	162	162	162	162	162	162	162	162	162	162	162	162
AF Differential Clutch Interface Input (3700 Only)	Yes															
AG Automatic Neutral – Dual Input	Yes	117/142	117/142	117/142												
AH Accelerator Pedal Kickdown Input	Yes															
AI Aux Function Range Inhibit – Single Input (Specialty Vehicle)	No															
AJ Pump Mode Input (4th Lockup)	No						122/123	122/123	122/123	122/123	122/123					
AK Automatic Neutral – Dual Input with Service Brake Status	Yes					117/142	117/142									
AL Shift Selector Transition & Secondary Shift Schedule Input	Yes			101	101											
AM Reverse Inhibit with Preselect Request Interface Input	No		123													
AQ Shift Selector Display Blanking Input	Yes															
AS Neutral at Stop Input	No	123		123	123	123	143	143	143		143	143	143	143		143
AW 2nd Reverse Input	No										123	123	123	123	123	123
BD Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes															
BS Grade Braking/Regenerative Input	No															
BY Aux. Box Transition Input	Yes										123	123	123	123	123	123
BZ Shift Selector Transition & Oil Field Pumping Input	Yes															
CA Automatic Neutral – Brake-Based (BBAN) Input for PTO	No															
CB1 Preselect Request 1 Input	Yes															
CB2 Preselect Request 2 Input	Yes															
CC High N/V Ratio Input	No															
CD Automatic Neutral – Single Input with Selector Override	Yes															
CE Direct Hold Input	No										122	122	122	122	122	122
CF Automatic Neutral – Idle Start/Stop Input	Yes															
CH Automatic Neutral – Single Input, Inverted	No															
CN Automatic Neutral – Dual Input with Auto Return-to-Range	No															
OUTPUT FUNCTIONS																
A Engine Brake Interface Output	No	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104
B Sump/Retarder Temperature Indicator	Yes	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164
C Range Indicator (5th Gen default is always Neutral)	Yes					113	145	145	145	145	145	145	145	145	145	145
D Output Speed Indicator A	Yes	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
G1 PTO Drive Interface 1 Indicator	Yes	130	130	130	130	130	130	130	130	130	130	130	130	130	130	130
G2 PTO Drive Interface 2 Indicator	No										104					104
I Engine Overspeed Indicator	Yes						130					130				
J Two Speed Axle Interface Indicator	Yes															
K Lockup Indicator	Yes															
N Secondary Mode Indicator	Yes		113	113												
O Transmission Service Indicator	Yes															
Q Retarder Interface Indicator	Yes	124	124	124	124	124	124	124	124	124	124	124	124	124	124	124
R Differential Clutch Interface Indicator (3700 Only)	Yes															
S Neutral Indicator for PTO and PTO Request (NIPTO)	Yes	145	145	145	145	145										
AD Range Inhibited Indicator	Yes															
AJ Output Speed Indicator A, Inverted	Yes															

* Additional packages available. Please reference Tech Data.



ALLISON TRANSMISSION PUPIL TRANSPORT/SHUTTLE SERIES™

RATINGS									
MODEL	SERIAL NUMBER	RATIO	PARK PAWL	MAX INPUT POWER ¹ hp (kW)	MAX INPUT TORQUE ¹ lb-ft (N·m)	MAX INPUT TORQUE w/SEM TORQUE LIMITING ^{1,2} lb-ft (N·m)	MAX TURBINE TORQUE ³ lb-ft (N·m)	MAX GVW lbs (kg)	MAX GCW lbs (kg)
1000 PTS	6310								
- School Bus		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	19,500 (8845)	26,000 (11,800)
- Shuttle Bus		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	565 ^{6,7} (766) ^{6,7}	950 ⁷ (1288) ⁷	19,500 (8845)	26,000 (11,800)
- xFE		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	565 ^{6,7} (766) ^{6,7}	950 ⁷ (1288) ⁷	19,500 (8845)	26,000 (11,800)
1350 PTS	6310								
- School Bus		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	19,500 (8845)	30,000 (13,600)
- Shuttle Bus		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	19,500 (8845)	30,000 (13,600)
- xFE		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	19,500 (8845)	30,000 (13,600)
2100 PTS	6310								
- School Bus		Close Ratio	No	300 ⁴ (224) ⁴	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	26,000 (11,800)	26,000 (11,800)
- Shuttle Bus		Close Ratio	No	300 ⁴ (224) ⁴	550 (746)	565 ^{6,7} (766) ^{6,7}	950 ⁷ (1288) ⁷	26,000 (11,800)	26,000 (11,800)
- xFE		Close Ratio	No	300 ⁴ (224) ⁴	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	26,000 (11,800)	26,000 (11,800)
2200 PTS	6310								
- School Bus		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	26,000 (11,800)	26,000 (11,800)
- Shuttle Bus		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	565 ^{6,7} (766) ^{6,7}	950 ⁷ (1288) ⁷	26,000 (11,800)	26,000 (11,800)
- xFE		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	26,000 (11,800)	26,000 (11,800)
2300 PTS^{5,8}	6310								
- School Bus		Close Ratio	No	365 (272)	N/A	510 (691)	950 ⁷ (1288) ⁷	33,000 (15,000)	33,000 (15,000)
2350 PTS⁵	6310								
- School Bus		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	660 ⁷ (895) ⁷	950 ⁷ (1288) ⁷	30,000 (13,600)	30,000 (13,600)
- xFE		Close Ratio	Yes	300 ⁴ (224) ⁴	550 (746)	660 ⁷ (895) ⁷	950 ⁷ (1288) ⁷	30,000 (13,600)	30,000 (13,600)
2500 PTS⁵	6310								
- School Bus		Wide Ratio	No	300 (224)	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	33,000 (15,000)	33,000 (15,000)
- xFE		Wide Ratio	No	300 (224)	550 (746)	660 ^{6,7} (895) ^{6,7}	950 ⁷ (1288) ⁷	33,000 (15,000)	33,000 (15,000)
2550 PTS⁵	6310								
- School Bus		Wide Ratio	Yes	300 (224)	550 (746)	660 ⁷ (895) ⁷	950 ⁷ (1288) ⁷	30,000 (13,600)	30,000 (13,600)
- xFE		Wide Ratio	Yes	300 (224)	550 (746)	660 ⁷ (895) ⁷	950 ⁷ (1288) ⁷	30,000 (13,600)	30,000 (13,600)
3000 PTS	6510								
- School Bus		Close Ratio	N/A	300 (224)	950 (1288)	N/A	1470 (1995)	—	—
- Shuttle Bus		Close Ratio	N/A	300 (224)	950 (1288)	N/A	1470 (1995)	33,000 (15,500)	33,000 (15,500)

1 Gross ratings as defined by ISO 1585 or SAE J1995. 2 SEM = engine controls with Shift Energy Management. 3 Turbine torque limit based on iSCAA standard deductions.

5 Available for School Bus applications only. 6 Check with your OEM to ensure offerings. 7 SEM and torque limiting are required to obtain this rating.

4 Gross input power rating is 340 hp/254 kW for VORTEC 8.1L gasoline powered engines.

8 Only available with VORTEC 8.1L gasoline powered engine applications.

PUPIL TRANSPORT/SHUTTLE SERIES™ FEATURES AND ADVANTAGES

Shift Energy Management (SEM) with torque limiting

Ratings up to 300 hp/660 lb-ft on 1000, 1350, 2100, 2200, 2350, 2500 and 2550 PTS.

High-density start/stop calibrations

Improves shift operations especially in congested traffic environments. Available on 1000, 2100, 2200 and 2500 PTS.

Oil Level Sensor

At the push of a button, oil levels are displayed on shift selectors for easy identification. Standard on 3000 PTS.

Neutral at Stop

Automatically eliminates the load on the engine when the vehicle is at a full stop to save fuel and reduce overall vehicle emissions.

Deep oil pan/sump standard

Shallow oil pan optional on 1000 PTS.

Prognostics

Eliminates unnecessary oil and filter changes by monitoring various operating parameters to determine and alert when a specific maintenance function is required.

Acceleration Rate Management

Mitigates aggressive driving by controlling engine torque based on the vehicle's grade and load.

DynActive™ Shifting

New innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on specs, vehicle and environmental parameters.



1000 PTS, 1350 PTS,
2100 PTS, 2200 PTS,
2300 PTS, 2350 PTS,
2500 PTS, 2550 PTS

3000 PTS

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- Ford® Pupil Transport Series Brochure
- Pupil Transport/Shuttle Series™ Individual Brochure

GENERAL BROCHURES

- Prognostics Brochure
- Shift Selector Operation and Code Manual
- Fluid and Filter Change Recommendations
- Retarder Brochure
- Filter and TranSynd® Flyer
- TranSynd® Maximum Protection Flyer
- San Diego Unified School District Testimonial Flyer
- Optimum Choice for School Bus Flyer
- Torque Converter Brochure
- Allison vs. Dual Clutch Technology

VIDEOS

- Allison At Work
- How an Allison Automatic Performs
- San Diego Unified School District Testimonial

TYPICAL VEHICLE APPLICATIONS

CLASS 5-8 SCHOOL BUS

CLASS 5-7 SHUTTLE BUS (UP TO 33,000 LBS GVW)*

School Use

Airfield Bus

School Bus

Airport Shuttle

Non-School Use

Casino Bus

Church Bus

Dedicated Handicap Shuttle

Private Academy Bus

Hotel Shuttle

Prison Bus

Rental Car Shuttle

Work Bus

Retirement Community Shuttle

Poultry Bus

Scenic Tour Bus

*Buses requiring PTO must use Bus Series models. All shuttle applications greater than 33,000 lbs GVW require B 300 or B 400 transmissions. Revenue-generating/FTA transit bus applications are excluded from Pupil Transport/Shuttle Series usage.

PUPIL TRANSPORT/SHUTTLE SERIES™ I/O Packages*

		1000/2000 PRODUCT FAMILIES		3000/4000 PRODUCT FAMILIES	
		PTS Models		School & Shuttle Bus	
VOCATION PACKAGE NUMBER		354	374	226	
INPUT FUNCTIONS		Default Enabled?			
A	Secondary Mode Input	Yes	142	142	M
C1	**PTO Drive Interface Input 1	Yes	143	162	
C2	**PTO Drive Interface Input 2	No			
D	Shift Selector Transition Input	No			
E	Auxiliary Function Range Inhibit – Single Input	No	101	101	101
F	Auxiliary Function Range Inhibit – Dual Input	Yes			
G	Auxiliary Hold Input	Yes			142
H	Engine Brake Interface Input (Standard)	No	102	102	102/157
I	Engine Brake Interface Input (Special)	No			
J	Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No			
K	Quick-to-Neutral Input	No			
L	Automatic Neutral – Single Input	No	123	123	117
Q	Two Speed Axle Interface Input	Yes			
R	Manual Lockup Control Input	No			
V	Reverse Enable Input	No			
W	Direction Change Enable Input	No			122
Y	Anti-Lock Brake System (ABS) Input	Yes	121	121	121
Z	Retarder Interface Input	Yes			161
AA	Service Brake Status Input	Yes	162		162
AF	Differential Clutch Interface Input (3700 Only)	Yes			
AG	Automatic Neutral – Dual Input	Yes			
AH	Accelerator Pedal Kickdown Input	Yes			
AI	Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No			
AJ	Pump Mode Input (4th Lockup)	No			
AK	Automatic Neutral – Dual Input with Service Brake Status	Yes			
AL	Shift Selector Transition & Secondary Shift Schedule Input	Yes			
AM	Reverse Inhibit with Preselect Request Interface Input	No			
AQ	Shift Selector Display Blanking Input	Yes			
AR	Overdrive Disable Interface Input	Yes	161	161	
AS	Neutral at Stop Input	No		143	123
AW	2nd Reverse Input	No			
BD	Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes			
BS	Grade Braking/Regenerative Input	No			
BY	Aux. Box Transition Input	Yes			
BZ	Shift Selector Transition & Oil Field Pumping Input	Yes			
CA	Automatic Neutral – Brake-Based (BBAN) Input for PTO	No			
CB1	Preselect Request 1 Input	Yes	122	122	
CB2	Preselect Request 2 Input	Yes			
CC	High N/V Ratio Input	No			
CD	Automatic Neutral – Single Input with Selector Override	Yes			
CE	Direct Hold Input	No			
CF	Automatic Neutral – Idle Start/Stop Input	Yes			
CH	Automatic Neutral – Single Input, Inverted	No			
CN	Automatic Neutral – Dual Input with Automatic Return-to-Range	No			
OUTPUT FUNCTIONS					
A	Engine Brake Interface Output	No	104	104	104
B	Sump/Retarder Temperature Indicator	Yes	164	164	164
C	Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145
D	Output Speed Indicator A	Yes	105	105	105
G1	**PTO Drive Interface 1 Indicator	Yes	150	150	
G2	**PTO Drive Interface 2 Indicator	No			
I	Engine Overspeed Indicator	Yes			130
J	Two Speed Axle Interface Indicator	Yes			
K	Lockup Indicator	Yes			
N	Secondary Mode Indicator	Yes			113
O	Transmission Service Indicator	Yes	113	113	
Q	Retarder Interface Indicator	Yes			124
R	Differential Clutch Interface Indicator (3700 Only)	Yes			
S	Neutral Indicator for PTO and PTO Request (NIPTO)	Yes			
AD	Range Inhibited Indicator	Yes	124	124	
AJ	Output Speed Indicator A, Inverted	Yes			

* Additional packages available. Please reference Tech Data. ** PTOS are not available with PTS Series hardware even though the wire option is shown in the package.

		3000/4000 PRODUCT FAMILIES		
		School & Shuttle Bus (Maximum Economy Calibration)		
VOCATION PACKAGE NUMBER		148	159	235
INPUT FUNCTIONS		Default Enabled?		
A	Secondary Mode Input	Yes	M	142
C1	**PTO Drive Interface Input 1	Yes	143	M
C2	**PTO Drive Interface Input 2	No		
D	Shift Selector Transition Input	No		
E	Auxiliary Function Range Inhibit – Single Input	No	101	101
F	Auxiliary Function Range Inhibit – Dual Input	Yes		
G	Auxiliary Hold Input	Yes	142	142
H	Engine Brake Interface Input (Standard)	No	102/157	102/157
I	Engine Brake Interface Input (Special)	No		
J	Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No		
K	Quick-to-Neutral Input	No		
L	Automatic Neutral – Single Input	No	117	117
Q	Two Speed Axle Interface Input	Yes		
R	Manual Lockup Control Input	No		
V	Reverse Enable Input	No		
W	Direction Change Enable Input	No		143
Y	Anti-Lock Brake System (ABS) Input	Yes	121	121
Z	Retarder Interface Input	Yes	161	161
AA	Service Brake Status Input	Yes	162	162
AF	Differential Clutch Interface Input (3700 Only)	Yes		
AG	Automatic Neutral – Dual Input	Yes		
AH	Accelerator Pedal Kickdown Input	Yes	122	122
AI	Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No		
AJ	Pump Mode Input (4th Lockup)	No		
AK	Automatic Neutral – Dual Input with Service Brake Status	Yes		
AL	Shift Selector Transition & Secondary Shift Schedule Input	Yes		
AM	Reverse Inhibit with Preselect Request Interface Input	No		
AQ	Shift Selector Display Blanking Input	Yes		
AR	Overdrive Disable Interface Input	Yes		
AS	Neutral at Stop Input	No	123	123
AW	2nd Reverse Input	No		
BD	Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes		
BS	Grade Braking/Regenerative Input	No		
BY	Aux. Box Transition Input	Yes		
BZ	Shift Selector Transition & Oil Field Pumping Input	Yes		
CA	Automatic Neutral – Brake-Based (BBAN) Input for PTO	No		
CB1	Preselect Request 1 Input	Yes		
CB2	Preselect Request 2 Input	Yes		
CC	High N/V Ratio Input	No		
CD	Automatic Neutral – Single Input with Selector Override	Yes		
CE	Direct Hold Input	No		
CF	Automatic Neutral – Idle Start/Stop Input	Yes		
CH	Automatic Neutral – Single Input, Inverted	No		
CN	Automatic Neutral – Dual Input with Automatic Return-to-Range	No		
OUTPUT FUNCTIONS				
A	Engine Brake Interface Output	No	104	104
B	Sump/Retarder Temperature Indicator	Yes	164	164
C	Range Indicator (5th Gen default is always Neutral)	Yes	145	145
D	Output Speed Indicator A	Yes	105	105
G1	**PTO Drive Interface 1 Indicator	Yes	130	
G2	**PTO Drive Interface 2 Indicator	No		
I	Engine Overspeed Indicator	Yes		113
J	Two Speed Axle Interface Indicator	Yes		
K	Lockup Indicator	Yes		
N	Secondary Mode Indicator	Yes		113
O	Transmission Service Indicator	Yes		
Q	Retarder Interface Indicator	Yes	124	124
R	Differential Clutch Interface Indicator (3700 Only)	Yes		
S	Neutral Indicator for PTO and PTO Request (NIPTO)	Yes		
AD	Range Inhibited Indicator	Yes		
AJ	Output Speed Indicator A, Inverted	Yes		

** PTOS are not available with PTS Series hardware even though the wire option is shown in the package.

Truck RV Series™

Allison Truck RV Series™ automatic transmissions offer more power and more performance for more enjoyment on the road. Specifically designed for truck recreational vehicles, Allison Truck RV Series™ transmissions provide smooth, full-power automatic shifts.



ALLISON TRANSMISSION TRUCK RV SERIES™

RATINGS									
MODEL	SERIAL NUMBER	RATIO	MAX INPUT POWER ¹	MAX INPUT TORQUE ¹	MAX INPUT W/ SEM TORQUE LIMITING ^{1,2}	MAX TURBINE TORQUE ³	MAX GVW	MAX GCW	
			hp (kW)	lb-ft (N·m)	lb-ft (N·m)	lb-ft (N·m)	lbs (kg)	lbs (kg)	
3000 TRV	6510	Close Ratio	310 (231)	950 (1288)	N/A	1700 (2305)	—	40,000 (18,144)	
3200 TRV	6510	Close Ratio	450 (336)	1200 (1627)	1250 (1695)	1700 (2305)	—	—	
4000 TRV	6510	Close Ratio	600 (447)	1850 (2508)	N/A	2800 (3795)	52,000 (23,587)	72,000 (32,659)	

1 Gross ratings as defined by ISO 1585 or SAE J1995. 2 SEM = engine controls with Shift Energy Management.

3 Turbine torque limit based on iSCAA standard deductions.

TYPICAL VEHICLE APPLICATIONS

Truck-Based Recreational Vehicles

Class 6–8 Type C Motorhomes

TRUCK RV SERIES™ FEATURES AND ADVANTAGES

Shift Energy Management (SEM) torque limiting

Ratings up to 450 hp/1250 lb-ft on 3200 TRV.

Prognostics

Eliminates unnecessary oil and filter changes by monitoring various operating parameters to determine and alert when a specific maintenance function is required.

Neutral at Stop

Automatically eliminates the load on the engine when the vehicle is at a full stop to save fuel and reduce overall vehicle emissions.

Acceleration Rate Management

Mitigates aggressive driving by controlling engine torque based on the vehicle's grade and load.

DynActive™ Shifting

New innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on specs, vehicle and environmental parameters.

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

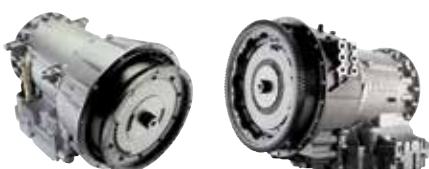
- Truck RV Series Individual Brochure

GENERAL BROCHURES

- Superior Fuel Efficiency. Optimum Fuel Economy.
- Prognostics Brochure
- Residual Value Brochure
- Startability Flyer
- Shift Selector Operation and Code Manual
- Fluid and Filter Change Recommendations
- Retarder Brochure
- Torque Converter Brochure

VIDEOS

- Allison At Work
- How an Allison Automatic Performs
- Shift Selector Interactive

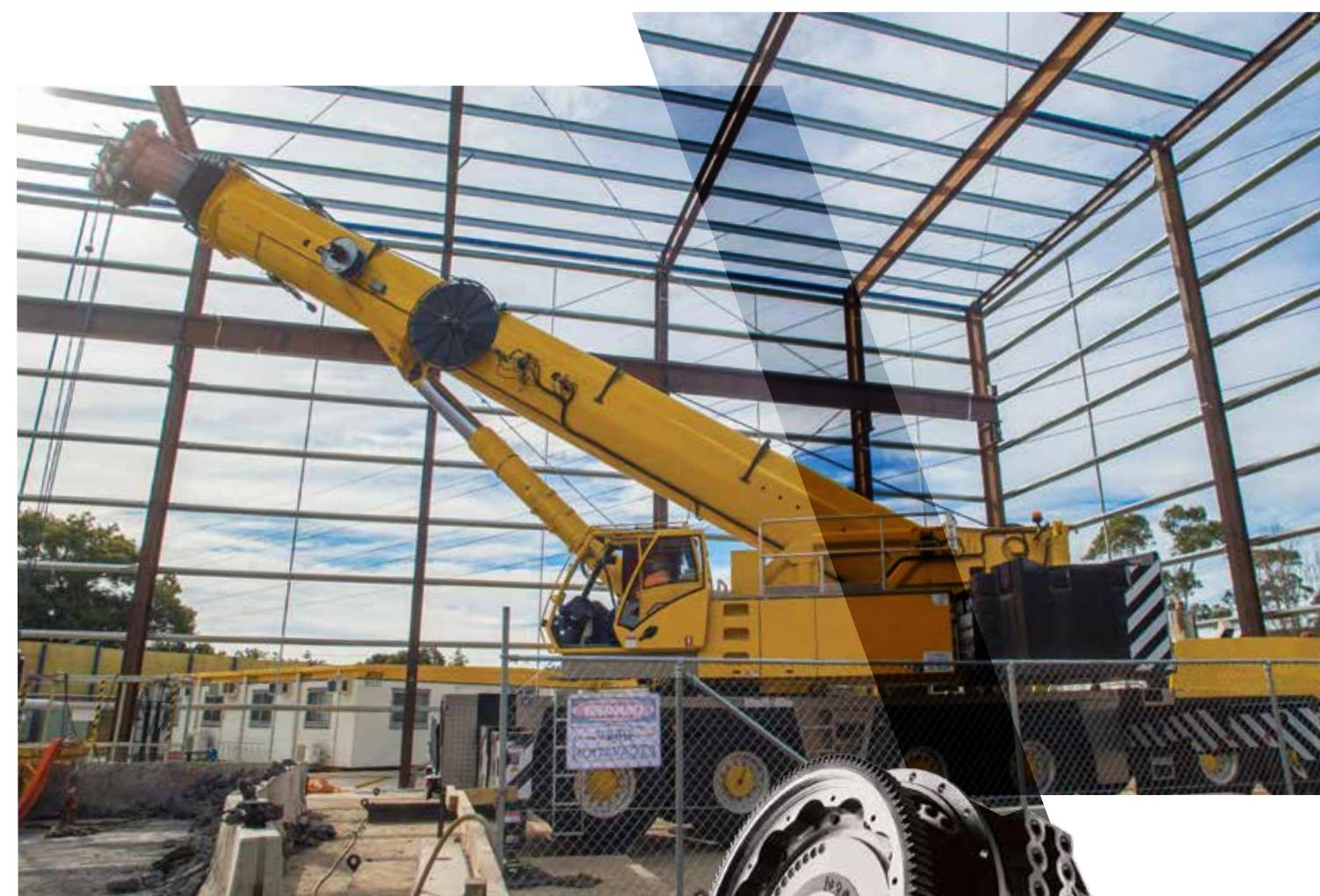


3000 TRV, 3200 TRV

4000 TRV

TRUCK RV SERIES™ I/O Packages

3000/4000 PRODUCT FAMILIES					
Truck-Based Recreational Vehicle					
	VOCATION PACKAGE NUMBER	223	226	263	
INPUT FUNCTIONS	Default Enabled?				
A Secondary Mode Input	Yes	M	M	M	
C1 PTO Drive Interface Input 1	Yes	143		143	
C2 PTO Drive Interface Input 2	No			102	
D Shift Selector Transition Input	No				
E Auxiliary Function Range Inhibit – Single Input	No	101	101	101	
F Auxiliary Function Range Inhibit – Dual Input	Yes				
G Auxiliary Hold Input	Yes	142	142	142	
H Engine Brake Interface Input (Standard)	No	102/157	102/157		
I Engine Brake Interface Input (Special)	No				
J Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No				
K Quick-to-Neutral Input	No				
L Automatic Neutral – Single Input	No	117	117	117	
Q Two Speed Axle Interface Input	Yes				
R Manual Lockup Control Input	No				
V Reverse Enable Input	No				
W Direction Change Enable Input	No	122	122	122	
Y Anti-Lock Brake System (ABS) Input	Yes	121	121	121	
Z Retarder Interface Input	Yes	161	161	161	
AA Service Brake Status Input	Yes	162	162	162	
AF Differential Clutch Interface Input (3700 Only)	Yes				
AG Automatic Neutral – Dual Input	Yes				
AH Accelerator Pedal Kickdown Input	Yes				
AI Auxiliary Function Range Inhibit -- Single Input (Specialty Vehicle)	No				
AJ Pump Mode Input (4th Lockup)	No				
AK Automatic Neutral – Dual Input with Service Brake Status	Yes				
AL Shift Selector Transition & Secondary Shift Schedule Input	Yes				
AM Reverse Inhibit with Preselect Request Interface Input	No				
AQ Shift Selector Display Blanking Input	Yes				
AR Overdrive Disable Interface Input	Yes				
AS Neutral at Stop Input	No	123	123	123	
AW 2nd Reverse Input	No	179		179	
BD Auto 2-1 Preselect Input (4000 7-Speed Only)	Yes				
BS Grade Braking/Regenerative Input	No				
BY Aux. Box Transition Input	Yes				
BZ Shift Selector Transition & Oil Field Pumping Input	Yes				
CA Automatic Neutral – Brake-Based (BBAN) Input for PTO	No				
CB1 Preselect Request 1 Input	Yes				
CB2 Preselect Request 2 Input	Yes				
CC High N/V Ratio Input	No				
CD Automatic Neutral – Single Input with Selector Override	Yes				
CE Direct Hold Input	No				
CF Automatic Neutral – Idle Start/Stop Input	Yes				
CH Automatic Neutral – Single Input, Inverted	No				
CN Automatic Neutral – Dual Input with Automatic Return-to-Range	No				
OUTPUT FUNCTIONS					
A Engine Brake Interface Output	No	104	104		
B Sump/Retarder Temperature Indicator	Yes	164	164	164	
C Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145	
D Output Speed Indicator A	Yes	105	105	105	
G1 PTO Drive Interface 1 Indicator	Yes	130		130	
G2 PTO Drive Interface 2 Indicator	No			104	
I Engine Overspeed Indicator	Yes		130		
J Two Speed Axle Interface Indicator	Yes				
K Lockup Indicator	Yes				
N Secondary Mode Indicator	Yes	113	113	113	
O Transmission Service Indicator	Yes				
Q Retarder Interface Indicator	Yes	124	124	124	
R Differential Clutch Interface Indicator (3700 Only)	Yes				
S Neutral Indicator for PTO and PTO Request (NIPTO)	Yes				
AD Range Inhibited Indicator	Yes				
AJ Output Speed Indicator A, Inverted	Yes				



Specialty Series™

Your vehicles are specially built to work hard in tough conditions, day in, day out. They travel long roads, back roads and to places that have no roads. Their performance rises to a whole new level when you spec Allison Specialty Series™ fully automatic transmissions.



ALLISON TRANSMISSION SPECIALTY SERIES™

RATINGS								
Model	Ratio	Park PAWL	Max Input Power ¹ hp (kW)	Max Input Torque ¹ lb-ft (N·m)	Max Input Torque w/ SEM Torque Limiting lb-ft (N·m) ³	Max Turbine Torque ² lb-ft (N·m)	MAX GVW lbs (kg)	MAX GCW lbs (kg)
1000 SP	Close Ratio	Yes	340 ^{3,5} (254) ^{3,5}	575 (780)	660 ³ (895) ³	950 ⁵ (1288) ⁵	22,000 (10,000)	26,000 (11,800)
1350 SP	Close Ratio	Yes	340 ^{3,5} (254) ^{3,5}	575 (780)	660 ² (895) ³	950 ⁵ (1288) ⁵	22,000 (10,000)	30,000 (13,600)
2100 SP	Close Ratio	—	340 ^{3,5} (254) ^{3,5}	575 (780)	700 ^{3,4} (950) ^{3,4}	950 ⁵ (1288) ⁵	26,500 (12,000)	26,500 (12,000)
2200 SP	Close Ratio	Yes	340 ^{3,5} (254) ^{3,5}	575 (780)	700 ^{3,4} (950) ^{3,4}	950 ⁵ (1288) ⁵	26,000 (11,800)	26,000 (11,800)
2350 SP	Close Ratio	Yes	340 ^{3,5} (254) ^{3,5}	575 (780)	700 ^{3,4} (950) ^{3,4}	950 ⁵ (1288) ⁵	30,000 (13,600)	30,000 (13,600)
2500 SP	Wide Ratio	—	340 ^{3,5} (254) ^{3,5}	575 (780)	700 ^{3,4} (950) ^{3,4}	950 ⁵ (1288) ⁵	33,000 (15,000)	33,000 (15,000)
2550 SP	Wide Ratio	Yes	340 ^{3,5} (254) ^{3,5}	575 (780)	700 ^{3,4} (950) ^{3,4}	950 ⁵ (1288) ⁵	30,000 (13,600)	30,000 (13,600)
3000 SP								
– Specialty/Military	Close Ratio	—	350 (261)	1050 (1424)	N/A	1700 (2305)	—	—
3200 SP								
– Specialty/Military	Close Ratio	—	450 (336)	1250 (1695)	N/A	1700 (2305)	—	—
3500 SP								
– Specialty/Military	Wide Ratio	—	330 (246)	985 (1335)	N/A	1500 (2034)	—	—
3700 SP								
– Specialty/Military	Widest Ratio	—	330 (246)	875 (1186)	N/A	1450 (1966)	—	—
4000 SP								
– Specialty/Military	Close Ratio	—	650 (485)	1950 (2644)	N/A	2800 (3795)	—	—
4430 SP								
– Specialty/Military	Wide Ratio	—	380 (283)	1180 (1600)	N/A	2600 (3525)	—	—
4500 SP								
– Specialty/Military	Wide Ratio	—	605 (451)	1770 (2400)	1850 ² (2508) ²	2600 (3525)	—	—
4700 SP								
– Specialty/Military	Widest Ratio	—	605 (451)	1850 (2508)	N/A	3000 (4067)	—	—
4800 SP								
– Specialty/Military	Widest Ratio	—	800 (597)	1950 (2644)	N/A	3000 (4067)	—	—
5620 SP								
– General	—	600 (447)	1875 (2542)	N/A	3475 (4711)	—	—	—
– Agricultural Tractor	—	500 (373)	1650 (2237)	N/A	3120 (4230)	—	—	—
– ARFF	—	750 (559)	2500 (3390)	N/A	3790 (5139)	—	—	—
6620 SP								
– General	—	760 (567)	2500 (3390)	N/A	3790 (5139)	—	—	—
– Agricultural Tractor	—	700 (522)	2000 (2712)	N/A	3340 (4528)	—	—	—
– ARFF	—	1025 (764)	3300 (4474)	N/A	5200 (7050)	—	—	—
6625 SP								
– General	—	760 (567)	2500 (3390)	N/A	3790 (5139)	—	—	—
– Agricultural Tractor	—	700 (522)	2000 (2712)	N/A	3340 (4528)	—	—	—
– ARFF	—	1025 (764)	3300 (4474)	N/A	5200 (7050)	—	—	—
8610 SP								
– General	—	1050 (783)	3600 (4881)	N/A	5650 (7660)	—	—	—
– Agricultural Tractor	—	850 (634)	3200 (4339)	N/A	5300 (7186)	—	—	—

1 Gross ratings as defined by ISO 1585 or SAE J1995. 2 Available in gears two through six. 3 Check with your OEM to ensure offerings.

4 Only available in gears three through five. 5 SEM and torque limiting are required to obtain this rating.

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- Specialty Series™ Individual Brochure

GENERAL BROCHURES

- Prognostics Brochure
- Shift Selector Operation and Code Manual
- Fluid and Filter Change Recommendations
- Retarder Brochure
- Torque Converter Brochure

VIDEOS

- Allison At Work
- How An Allison Automatic Performs

TYPICAL VEHICLE APPLICATIONS

Military

Crane Carrier

Equipment Hauler with Escort or Permit

Molten Metal/Slag Hauler

Power Plant Generator Hauler

Heavy Equipment Hauler

SPECIALTY SERIES™ FEATURES AND ADVANTAGES

Shift Energy Management (SEM) torque limiting

Ratings up to 340 hp/700 lb-ft on 2100, 2200, 2350, 2500 and 2550 SP. Ratings up to 605 hp/1850 lb-ft on 4500 SP.

Prognostics

Eliminates unnecessary oil and filter changes by monitoring various operating parameters to determine and alert when a specific maintenance function is required.

Neutral at Stop

Automatically eliminates the load on the engine when the vehicle is at a full stop to save fuel and reduce overall vehicle emissions.

Acceleration Rate Management

Mitigates aggressive driving by controlling engine torque based on the vehicle's grade and load.

DynActive™ Shifting

New innovative shift scheduling uses an algorithm to choose the most efficient shift point, based on specs, vehicle and environmental parameters.



SPECIALTY SERIES™ I/O Packages

SPECIALTY SERIES™ I/O Packages		1000/2000 PRODUCT FAMILIES*							
VOCATION PACKAGE NUMBER		SPS Models							
INPUT FUNCTIONS		Default Enabled?	352	354	360	362	365	372	377
A	Secondary Mode Input	Yes	142	142	142	142	142	142	142
C1	PTO Drive Interface Input 1	Yes	143	143	143	143	143	162	162
C2	PTO Drive Interface Input 2	No							
D	Shift Selector Transition Input	No							
E	Auxiliary Function Range Inhibit – Single Input	No	101	101			101	101	
F	Auxiliary Function Range Inhibit – Dual Input	Yes							
G	Auxiliary Hold Input	Yes							
H	Engine Brake Interface Input (Standard)	No		102	102				
I	Engine Brake Interface Input (Special)	No	102			102		102	102
J	Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No							
K	Quick-to-Neutral Input	No							
L	Automatic Neutral – Single Input	No	123	123			123	123	
Q	Two Speed Axle Interface Input	Yes							
R	Manual Lockup Control Input	No							
V	Reverse Enable Input	No							
W	Direction Change Enable Input	No							
Y	Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121	121	121
Z	Retarder Interface Input	Yes							
AA	Service Brake Status Input	Yes	162	162	162	162	162		
AF	Differential Clutch Interface Input (3700 Only)	Yes							
AG	Automatic Neutral – Dual Input	Yes							
AH	Accelerator Pedal Kickdown Input	Yes	122			122		122	122
AI	Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No							
AJ	Pump Mode Input (4th Lockup)	No							
AK	Automatic Neutral – Dual Input with Service Brake Status	Yes							
AL	Shift Selector Transition & Secondary Shift Schedule Input	Yes							
AM	Reverse Inhibit with Preselect Request Interface Input	No				123			123
AQ	Shift Selector Display Blanking Input	Yes							
AR	Override Disable Interface Input	Yes	161	161	161	161	161	161	161
AS	Neutral at Stop Input	No						143	143
AW	2nd Reverse Input	No							
BD	Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes							
BQ	Pump Mode Input (3rd Lockup)	No			122/123				
BS	Grade Braking/Regenerative Input	No							
BY	Aux. Box Transition Input	Yes							
BZ	Shift Selector Transition & Oil Field Pumping Input	Yes							
CA	Automatic Neutral – Brake-Based (BBAN) Input for PTO	No				101			101
CB1	Preselect Request 1 Input	Yes		122					
CB2	Preselect Request 2 Input	Yes							
CC	High N/V Ratio Input	No					102/122		
CD	Automatic Neutral – Single Input with Selector Override	Yes							
CE	Direct Hold Input	No							
CF	Automatic Neutral – Idle Start/Stop Input	Yes							
CH	Automatic Neutral – Single Input, Inverted	No							
CN	Automatic Neutral – Dual Input with Automatic Return-to-Range	No							
OUTPUT FUNCTIONS									
A	Engine Brake Interface Output	No	104	104	104	104		104	104
B	Sump/Retarder Temperature Indicator	Yes	164	164	164	164	164	164	164
C	Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145		145	145	
D	Output Speed Indicator A	Yes	105	105	105	105	105	105	105
G1	PTO Drive Interface 1 Indicator	Yes	150	150	150	150	150	150	150
G2	PTO Drive Interface 2 Indicator	No							
I	Engine Overspeed Indicator	Yes							
J	Two Speed Axle Interface Indicator	Yes							
K	Lockup Indicator	Yes							
N	Secondary Mode Indicator	Yes							
O	Transmission Service Indicator	Yes	113	113	113	113	113	113	113
Q	Retarder Interface Indicator	Yes							
R	Differential Clutch Interface Indicator (3700 Only)	Yes							
S	Neutral Indicator for PTO and PTO Request (NIPTO)	Yes				145			145
AD	Range Inhibited Indicator	Yes	124	124	124	124	124	124	124
AJ	Output Speed Indicator A, Inverted	Yes							

SPECIALTY SERIES™ I/O Packages

*Additional packages available. See Tech Data I/O Package Guides – 5th Gen Controls.

SPECIALTY SERIES™ I/O Packages

VOCATION PACKAGE NUMBER

5000/6000/8000/9000 PRODUCT FAMILIES*							
	On/Off Highway	Coal Auger/ Trencher	Crash Truck			Crane	
	914	915	924	926	927	928	929
INPUT FUNCTIONS							
A	Secondary Mode Input	M	162	M	M	162	M
B	D-1 Selection	162	M	162	162	M	162
D	Shift Selector Transition Input						102
E	Auxiliary Function Range Inhibit – Single Input (Inverted)	161	161	161	161	161	161
G	Auxiliary Hold Input	101	101		101	101	101
K	Quick-to-Neutral Input (Normally Closed)			123			
Q	Two Speed Axle Interface Input	142	142				142
R	Manual Lockup Control Input						
Y	Anti-Lock Brake System (ABS) Input			121	121	121	121
Z	Retarder Interface Input	123	123		123	123	123
AM	Reverse Inhibit with Preselect Request Interface Input (Inverted)	121	121				
AW	2nd Reverse Input	157	157	157			157
AX	Manual Mode	143	143	143	143	143	143
AZ	Lockup Disable Request	122	122	122	122	122	122
BC	Shift Selector Transition and Manual Mode						
BE	Engine Speed/Torque Control Input 1			142	142	142	142
CE	Direct Hold	102	102	102			
CG	Engine Speed/Torque Control Input 2	117	117	117	117	117	117
CI	Quick-to-Neutral Input (Normally Open)						
CK	Pressure Test Mode						
CO	Shift Schedule 2	179	179	179	179	179	179
CQ	Manual Mode (Inverted)						
OUTPUT FUNCTIONS							
B	Sump/Retarder Temperature Indicator						
C	Range Indicator	145	145	145	145	145	145
D	Output Speed Indicator A	113	113				113
E	Output Overspeed Indicator B						
I	Engine Overspeed Indicator	130	130			130	130
J	Two Speed Axle Interface Indicator	105	105				105
K	Lockup Indicator	104	104	104	104	104	104
N	Secondary Mode Indicator	150	150	150	150	150	150
Q	Retarder Interface Indicator	124	124		124	124	124
V	Manual Mode Indicator			130	130	130	
W	Neutral to Range Brake	164	164	164	164	164	164
Z	Engine Speed/Torque Control Indicator			113	113	113	113
AD	Range Inhibit Indicator						
AL	Transmission Filter Restriction Indicator			105	105	105	105
AO	Shift Schedule 2 Indicator						

*Additional packages available. See Tech Data I/O Package Guides – 5th Gen Controls.



Oil Field Series™

Allison Oil Field Series™ fully automatic transmissions are designed and engineered specifically for the rigors of oil field operations. They work harder, faster and more reliably, allowing you to stay in production longer.

ALLISON TRANSMISSION OIL FIELD SERIES™

RATINGS						
MODEL	RATIO	MAX INPUT POWER hp (kW)	MAX INPUT TORQUE lb-ft (N•m)	MAX INPUT TORQUE w/SEM TORQUE LIMITING lb-ft (N•m)	MAX TURBINE TORQUE lb-ft (N•m)	MAX GVW lbs (kg)
3500 OFS	Wide Ratio	330 (246)	860 (1166)	985 (1335) ¹	1450 (1966)	-
4430 OFS	Wide Ratio	425 (317)	1217 (1650)	N/A	2600 (3525)	-
4500 OFS	Wide Ratio	565 (421)	1650 (2237)	N/A	2600 (3525)	-
4700 OFS	Widest Ratio	600 (447)	1850 (2508)	N/A	2600 (3525)	-
4750 OFS	Widest Ratio	665 (496)	1950 (2644)	N/A	3000 (4067)	-
5620 OFS - Mobile	-	600 (447)	1875 (2542)	N/A	3475 (4711)	-
5620 OFS [DB]	-	600 (447)	1875 (2542)	N/A	3475 (4711)	-
5620 OFS - Stationary	-	675 (503)	2150 (2915)	N/A	3475 (4711)	-
6620 OFS - Mobile	-	760 (567)	2500 (3390)	N/A	3790 (5139)	-
6620 OFS - Stationary	-	900 (671)	2750 (3729)	N/A	4000 (5423)	-
8610 OFS	-	1200 (895)	3600 (4881)	N/A	5966 (8089)	-
9817 OFS	-	1750 (1305)	5250 (7118)	N/A	7000 (9491)	-
9823 OFS	-	2350 (1752)	6300 (8542)	N/A	7550 (10,235)	-
9826 OFS	-	2600 (1939)	7750 (10,507)	N/A	8000 (10,847)	-
9832 OFS	-	3200 (2386)	9000 (12,200)	N/A	9400 (12,745)	-

¹ Shift Energy Management (SEM) engine controls and torque limiting are required to obtain this rating.

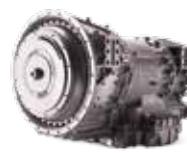
TYPICAL VEHICLE APPLICATIONS

Drilling
Cementing
Fracturing

Hoisting
Pumping



4500 OFS w/o PTO



4700 OFS w/PTO

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- Oil Field Series™ Individual Brochure
- Energy Brochure

GENERAL BROCHURES

- Prognostics Brochure
- Shift Selector Operation and Code Manual

OIL FIELD SERIES™ I/O Packages

VOCATION PACKAGE NUMBER	Skid-Mounted Pump	Dual Mode		
	192	209	193	258
INPUT FUNCTIONS	Default Enabled?			
A Secondary Mode Input	Yes	**	**	
C1 PTO Drive Interface Input 1	Yes			
C2 PTO Drive Interface Input 2	No			
D Shift Selector Transition Input	No	142	142	
E Auxiliary Function Range Inhibit – Single Input	No	101	101	101
F Auxiliary Function Range Inhibit – Dual Input	Yes			101
G Auxiliary Hold Input	Yes			
H Engine Brake Interface Input (Standard)	No			102/157
I Engine Brake Interface Input (Special)	No			102/157
J Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No			
K Quick-to-Neutral Input	No	143	143	143
L Automatic Neutral – Single Input	No			
Q Two Speed Axle Interface Input	Yes			
R Manual Lockup Control Input	No	161/179	161/179	123/179
V Reverse Enable Input	No	122	122	122
W Direction Change Enable Input	No			
Y Anti-Lock Brake System (ABS) Input	Yes			121
Z Retarder Interface Input	Yes			161
AA Service Brake Status Input	Yes			162
AF Differential Clutch Interface Input (3700 Only)	Yes			
AG Automatic Neutral – Dual Input	Yes			
AH Accelerator Pedal Kickdown Input	Yes			
AI Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No			
AJ Pump Mode Input (4th Lockup)	No			
AK Automatic Neutral – Dual Input with Service Brake Status	Yes			
AL Shift Selector Transition & Secondary Shift Schedule Input	Yes			
AM Reverse Inhibit with Preselect Request Interface Input	No			
AQ Shift Selector Display Blanking Input	Yes	102		
AR Overdrive Disable Interface Input	Yes			
AS Neutral at Stop Input	No			
AW 2nd Reverse Input	No			
BD Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes	M		M
BS Grade Braking/Regenerative Input	No			
BY Aux. Box Transition Input	Yes	117	117	117
BZ Shift Selector Transition & Oil Field Pumping Input	Yes			142
CA Automatic Neutral – Brake-Based (BBAN) Input for PTO	No			
CB1 Preselect Request 1 Input	Yes			M
CB2 Preselect Request 2 Input	Yes			122
CC High N/V Ratio Input	No			
CD Automatic Neutral – Single Input with Selector Override	Yes			
CE Direct Hold Input	No			M
CF Automatic Neutral – Idle Start/Stop Input	Yes			
CH Automatic Neutral – Single Input, Inverted	No			
CN Automatic Neutral – Dual Input with Automatic Return-to-Range	No			
OUTPUT FUNCTIONS				
A Engine Brake Interface Output	No			104
B Sump/Retarder Temperature Indicator	Yes	164	164	164
C Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145
D Output Speed Indicator A	Yes	124	124	124
G1 PTO Drive Interface 1 Indicator	Yes			
G2 PTO Drive Interface 2 Indicator	No			
I Engine Overspeed Indicator	Yes			
J Two Speed Axle Interface Indicator	Yes			
K Lockup Indicator	Yes	105	105	105
N Secondary Mode Indicator	Yes	113	113	113
O Transmission Service Indicator	Yes			
Q Retarder Interface Indicator	Yes			124
R Differential Clutch Interface Indicator (3700 Only)	Yes			124
S Neutral Indicator for PTO and PTO Request (NIPTO)	Yes			
AD Range Inhibited Indicator	Yes			
AJ Output Speed Indicator A, Inverted	Yes			

**No primary mode. Calibration forces skid-mounted pump to secondary mode.

OIL FIELD SERIES™ I/O Packages

VOCATION PACKAGE NUMBER

Dual Mode (2nd Reverse Capable)						
	243	248	251	259	260	261
INPUT FUNCTIONS	Default Enabled?					
A Secondary Mode Input	Yes					
C1 PTO Drive Interface Input 1	Yes	143	102		143	102
C2 PTO Drive Interface Input 2	No					
D Shift Selector Transition Input	No					
E Auxiliary Function Range Inhibit – Single Input	No	101	101	101	101	101
F Auxiliary Function Range Inhibit – Dual Input	Yes					
G Auxiliary Hold Input	Yes					
H Engine Brake Interface Input (Standard)	No					
I Engine Brake Interface Input (Special)	No					
J Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No					
K Quick-to-Neutral Input	No	102	143	143	102	143
L Automatic Neutral – Single Input	No					
Q Two Speed Axle Interface Input	Yes					
R Manual Lockup Control Input	No	123/179	123/179	123/179	123/179	123/179
V Reverse Enable Input	No	122	122	122		
W Direction Change Enable Input	No					
Y Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121
Z Retarder Interface Input	Yes	161	161	161	161	161
AA Service Brake Status Input	Yes	162	162	162	162	162
AF Differential Clutch Interface Input (3700 Only)	Yes					
AG Automatic Neutral – Dual Input	Yes					
AH Accelerator Pedal Kickdown Input	Yes					
AI Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No					
AJ Pump Mode Input (4th Lockup)	No					
AK Automatic Neutral – Dual Input with Service Brake Status	Yes					
AL Shift Selector Transition & Secondary Shift Schedule Input	Yes					
AM Reverse Inhibit with Preselect Request Interface Input	No					
AQ Shift Selector Display Blanking Input	Yes		102		102	
AR Overdrive Disable Interface Input	Yes					
AS Neutral at Stop Input	No					
AW 2nd Reverse Input	No					
BD Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes	M	M	M		
BS Grade Braking/Regenerative Input	No					
BY Aux. Box Transition Input	Yes	117	117	117	117	117
BZ Shift Selector Transition & Oil Field Pumping Input	Yes	142	142	142	142	142
CA Automatic Neutral – Brake-Based (BBAN) Input for PTO	No					
CB1 Preselect Request 1 Input	Yes			M	M	M
CB2 Preselect Request 2 Input	Yes			122	122	122
CC High N/V Ratio Input	No					
CD Automatic Neutral – Single Input with Selector Override	Yes	157	157	157	157	157
CE Direct Hold Input	No					
CF Automatic Neutral – Idle Start/Stop Input	Yes					
CH Automatic Neutral – Single Input, Inverted	No					
CN Automatic Neutral – Dual Input with Automatic Return-to-Range	No					
OUTPUT FUNCTIONS						
A Engine Brake Interface Output	No					
B Sump/Retarder Temperature Indicator	Yes	164	164	164	164	164
C Range Indicator (5th Gen default is always Neutral)	Yes	145	145	145	145	145
D Output Speed Indicator A	Yes					
G1 PTO Drive Interface 1 Indicator	Yes	130	130		130	130
G2 PTO Drive Interface 2 Indicator	No					
I Engine Overspeed Indicator	Yes					
J Two Speed Axle Interface Indicator	Yes					
K Lockup Indicator	Yes	105	105	105	105	105
N Secondary Mode Indicator	Yes	113	113	113	113	113
O Transmission Service Indicator	Yes					
Q Retarder Interface Indicator	Yes	124	124	124	124	124
R Differential Clutch Interface Indicator (3700 Only)	Yes					
S Neutral Indicator for PTO and PTO Request (NIPTO)	Yes					
AD Range Inhibited Indicator	Yes					
AJ Output Speed Indicator A, Inverted	Yes					

OIL FIELD SERIES™ I/O Packages

VOCATION PACKAGE NUMBER

	Mobile/Dual Mode			Stationary		
	916	917	918	919	920	923
INPUT FUNCTIONS						
A Secondary Mode Input	M	162	162	M	162	
B D-1 Selection	162	M		162	M	M
D Shift Selector Transition Input				102	102	142
E Auxiliary Function Range Inhibit – Single Input (Inverted)	161	161	161	161	161	101
G Auxiliary Hold Input	101	101	101			117
K Quick-to-Neutral Input (Normally Closed)				123	123	143
Q Two Speed Axle Interface Input						
R Manual Lockup Control Input				117	117	179
Y Anti-Lock Brake System (ABS) Input	121	121	121			
Z Retarder Interface Input	123	123	123			
AM Reverse Inhibit with Preselect Request Interface Input (Inverted)						
AW 2nd Reverse Input	157	157	157			
AX Manual Mode				143	143	123
AZ Lockup Disable Request	122	122	122	122	122	161
BC Shift Selector Transition and Manual Mode	143	143				
BE Engine Speed/Torque Control Input 1	142	142	142	142	142	
CE Direct Hold	102	102				
CG Engine Speed/Torque Control Input 2	117	117	117			
CI Quick-to-Neutral Input (Normally Open)						
CK Pressure Test Mode				157	157	157
CO Shift Schedule 2	179	179	179	179	179	
CQ Manual Mode (Inverted)						
OUTPUT FUNCTIONS						
B Sump/Retarder Temperature Indicator						
C Range Indicator	145	145	145	145	145	145
D Output Speed Indicator A						124
E Output Overspeed Indicator B	105	105	105			
I Engine Overspeed Indicator						
J Two Speed Axle Interface Indicator						
K Lockup Indicator	104	104	104	104	104	105
N Secondary Mode Indicator	150	150	150	150	150	113
Q Retarder Interface Indicator	124	124	124			
V Manual Mode Indicator	130	130	130	130	130	130
W Neutral to Range Brake	164	164	164	164	164	164
Z Engine Speed/Torque Control Indicator	113	113	113	113	113	
AD Range Inhibit Indicator						
AL Transmission Filter Restriction Indicator				105	105	
AO Shift Schedule 2 Indicator						

*Additional packages available. See Tech Data I/O Package Guides – 5th Gen Controls.

ALLISON TRANSMISSION OFF ROAD SERIES™



Off Road Series™

Allison Off Road Series™ fully automatic transmissions are a better way to work in the dirt. They offer higher horsepower and torque ratings that not only help increase the number of deliveries daily, they allow larger payloads.



RATINGS							
MODEL	RATIO	MAX INPUT POWER hp (kW)	MAX INPUT TORQUE lb-ft (N•m)	MAX INPUT TORQUE w/ SEM TORQUE LIMITING lb-ft (N•m)	MAX TURBINE TORQUE lb-ft (N•m)	MAX GVW lbs (kg)	MAX GCW lbs (kg)
3000 ORS	Close Ratio						
- Articulated/Rigid Dump		250 (186)	664 (900)	—	1575 (2135)	98,100 (44,500)	N/A
3200 ORS	Close Ratio						
- Articulated/Rigid Dump		300 (224)	811 (1100)	—	1575 (2135)	98,100 (44,500)	N/A
- Other				Contact your Allison representative for details			
3500 ORS	Wide Ratio						
- Articulated/Rigid Dump		330 (246)	811 (1100)	—	1420 (1925)	98,100 (44,500)	N/A
- Other				Contact your Allison representative for details			
4000 ORS	Close Ratio						
- Articulated Dump		480 (358)	1625 (2203)	—	2450 (3322)	151,017 (68,500)	N/A
- Rigid Dump		480 (358)	1550 (2102)	—	2450 (3322)	125,663 (57,000)	N/A
- Other				Contact your Allison representative for details			
4200 ORS	Close Ratio						
- Articulated Dump		480 (358)	1700 (2305)	—	2450 (3322)	178,574 (81,000)	N/A
4430 ORS	Wide Ratio						
- Articulated/Rigid Dump		380 (283)	1235 (1675)	—	2450 (3322)	151,017 (68,500)	N/A
- Other				Contact your Allison representative for details			
4500 ORS	Wide Ratio						
- Articulated Dump		480 (358)	1550 (2102)	1625 ¹ (2203) ¹	2450 (3322)	151,017 (68,500)	N/A
- Rigid Dump		480 (358)	1550 (2102)	—	2450 (3322)	151,017 (68,500)	N/A
- Other				Contact your Allison representative for details			
4600 ORS	Wide Ratio						
- Articulated/Rigid Rear Dump		480 (358)	1550 (2102)	1700 ¹ (2305) ¹	2450 (3322)	178,574 (81,000)	N/A
4700 ORS	Widest Ratio						
- Articulated Dump		500 (373)	1700 (2305)	—	2450 (3322)	178,574 (81,000)	N/A
4800 ORS	Widest Ratio						
- Articulated Dump		600 (447)	—	1850 (2508) ²	2600 (3525)	211,644 (96,000)	N/A
5620 ORS	N/A						
- Articulated/Rigid Dump		600 (447)	1875 (2542)	—	3475 (4711)	—	N/A
6620 ORS	N/A						
- Articulated/Rigid Dump		760 (567)	2500 (3390)	—	3790 (5139)	—	N/A
6625 ORS	N/A						
- Articulated/Rigid Dump		760 (567)	2500 (3390)	—	3790 (5139)	—	N/A
6630 ORS	N/A						
- Articulated/Rigid Dump		760 (567)	2500 (3390)	—	3790 (5139)	—	N/A
8610 ORS	N/A						
- Rigid Dump		1050 (783)	3600 (4881)	—	5650 (7660)	—	N/A
9610 ORS	N/A						
- Rigid Dump		1350 (1007)	4000 (5423)	—	6000 (8135)	—	N/A

¹ Available in gears three through six with torque limiting. ² For gears four through seven.

OFF ROAD SERIES™ I/O Packages

		Premium Off-Highway										
VOCATION PACKAGE NUMBER		Euro Refuse Truck	127	175	190	191	195	196	235	244	245	264
INPUT FUNCTIONS		Default Enabled?										
A	Secondary Mode Input	Yes	M	122	M	M	M	M	142	M	M	M
C1	PTO Drive Interface Input 1	Yes	143	143	143	143	143	143	M	143	143	143
C2	PTO Drive Interface Input 2	No										102
D	Shift Selector Transition Input	No										
E	Auxiliary Function Range Inhibit – Single Input	No	101		101	101		101	101			101
F	Auxiliary Function Range Inhibit – Dual Input	Yes										
G	Auxiliary Hold Input	Yes		117	142	142	117	142		117	117	142
H	Engine Brake Interface Input (Standard)	No		102/157	102/157	102/157	102/157	102/157	102/157	102/157	102/157	
I	Engine Brake Interface Input (Special)	No	102/157									
J	Pump Mode Input (Fire Truck Pump Mode 4th Lockup)	No										
K	Quick-to-Neutral Input	No										
L	Automatic Neutral – Single Input	No	117		117	117		117	117	122		117
Q	Two Speed Axle Interface Input	Yes										
R	Manual Lockup Control Input	No										
V	Reverse Enable Input	No										
W	Direction Change Enable Input	No							143			
Y	Anti-Lock Brake System (ABS) Input	Yes	121	121	121	121	121	121	121	121	121	
Z	Retarder Interface Input	Yes	161	161	161	161	161	161	161	161	161	
AA	Service Brake Status Input	Yes	162	162	162	162	162	162	162	162	162	
AF	Differential Clutch Interface Input (3700 Only)	Yes										
AG	Automatic Neutral – Dual Input	Yes		101/142			101/142					
AH	Accelerator Pedal Kickdown Input	Yes	122						122			
AI	Auxiliary Function Range Inhibit – Single Input (Specialty Vehicle)	No										
AJ	Pump Mode Input (4th Lockup)	No										
AK	Automatic Neutral – Dual Input with Service Brake Status	Yes										
AL	Shift Selector Transition & Secondary Shift Schedule Input	Yes										
AM	Reverse Inhibit with Preselect Request Interface Input	No	123	123		123	123		123	123	123	
AQ	Shift Selector Display Blanking Input	Yes										
AR	Overdrive Disable Interface Input	Yes										
AS	Neutral at Stop Input	No							123			
AW	2nd Reverse Input	No								179	179	
BD	Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes										
BS	Grade Braking/Regenerative Input	No										
BY	Aux. Box Transition Input	Yes										
BZ	Shift Selector Transition & Oil Field Pumping Input	Yes										
CA	Automatic Neutral – Brake-Based (BBAN) Input for PTO	No										
CB1	Preselect Request 1 Input	Yes										
CB2	Preselect Request 2 Input	Yes										
CC	High N/V Ratio Input	No										
CD	Automatic Neutral – Single Input with Selector Override	Yes								122		
CE	Direct Hold Input	No										
CF	Automatic Neutral – Idle Start/Stop Input	Yes										
CH	Automatic Neutral – Single Input, Inverted	No										
CN	Automatic Neutral – Dual Input with Automatic Return-to-Range	No										
OUTPUT FUNCTIONS												
A	Engine Brake Interface Output	No	104	104	104	104	104	104	104	104	104	
B	Sump/Retarder Temperature Indicator	Yes	164	164	164	164	164	164	164	164	164	
C	Range Indicator (5th Gen default is always Neutral)	Yes	113		113	113			145			113
D	Output Speed Indicator A	Yes	105	105	105	105	105	105	105	105	105	
G1	PTO Drive Interface 1 Indicator	Yes	130	130	130	130	130	130	130	130	130	
G2	PTO Drive Interface 2 Indicator	No										104
I	Engine Overspeed Indicator	Yes				145			145			
J	Two Speed Axle Interface Indicator	Yes										
K	Lockup Indicator	Yes							113			
N	Secondary Mode Indicator	Yes		113			113		113	113	113	
O	Transmission Service Indicator	Yes										
Q	Retarder Interface Indicator	Yes	124	124	124	124	124	124	124	124	124	
R	Differential Clutch Interface Indicator (3700 Only)	Yes										
S	Neutral Indicator for PTO and PTO Request (NIPTO)	Yes	145	145		145	145			145	145	145
AD	Range Inhibited Indicator	Yes										
AJ	Output Speed Indicator A, Inverted	Yes										

OFF ROAD SERIES™ I/O Packages

		Rear Dump				Bottom Dump
VOCATION PACKAGE NUMBER		910	911	912	922	913
INPUT FUNCTIONS						
A	Secondary Mode Input		M	162	162	162
B	D-1 Selection		162	M	M	162
D	Shift Selector Transition Input					
E	Auxiliary Function Range Inhibit – Single Input (Inverted)		161	161	161	161
G	Auxiliary Hold Input		101	101	M	101
K	Quick-to-Neutral Input (Normally Closed)					
Q	Two Speed Axle Interface Input					
R	Manual Lockup Control Input					
Y	Anti-Lock Brake System (ABS) Input					121
Z	Retarder Interface Input		123	123	123	123
AM	Reverse Inhibit with Preselect Request Interface Input (Inverted)		121	121	121	121
AW	2nd Reverse Input		157	157	157	157
AX	Manual Mode		143	143	143	143
AZ	Lockup Disable Request		122	122	122	122
BC	Shift Selector Transition and Manual Mode					
BE	Engine Speed/Torque Control Input 1		142	142	142	142
CE	Direct Hold		102	102	102	102
CG	Engine Speed/Torque Control Input 2		117	117	117	117
CI	Quick-to-Neutral Input (Normally Open)					
CK	Pressure Test Mode					
CO	Shift Schedule 2		179	179	179	179
CQ	Manual Mode (Inverted)					
OUTPUT FUNCTIONS						
B	Sump/Retarder Temperature Indicator					
C	Range Indicator		145	145	145	145
D	Output Speed Indicator A					
E	Output Overspeed Indicator B					105
I	Engine Overspeed Indicator		130	130	130	130
J	Two Speed Axle Interface Indicator					
K	Lockup Indicator		104	104	104	104
N	Secondary Mode Indicator		150	150	150	150
Q	Retarder Interface Indicator		124	124	124	124
V	Manual Mode Indicator					
W	Neutral to Range Brake		164	164	164	164
Z	Engine Speed/Torque Control Indicator		113	113	113	113
AD	Range Inhibit Indicator					
AL	Transmission Filter Restriction Indicator		105	105	105	105
AO	Shift Schedule 2 Indicator					

TYPICAL VEHICLE APPLICATIONS
Articulated Dump
Rigid Dump
Rigid Rear Dump

Contact your Allison representative for other applications.

SERIES BROCHURE

- Mining Vocational Brochure

GENERAL BROCHURES

- Prognostics Brochure
- Shift Selector Operation and Code Manual

MARKETING PUBLICATIONS AND VIDEOS



Hybrid Bus™

All over the world, fleets, cities and passengers rely on Allison. No matter where the road leads, Allison Hybrid EP systems have demonstrated real, bottom-line operating benefits to municipalities and fleet operators. Since 2003, buses equipped with Allison H 40 EPTM and H 50 EPTM have provided reliable service without sacrificing performance.

Efficient By Design

The Allison Hybrid EP system features a two-mode split parallel architecture — a pure mechanical path and a pure electrical path — to achieve the highest energy efficiency. The technology uses both electrical and mechanical paths to provide an infinite number of ratios, optimizing performance and fuel economy. The efficiency gains over other technologies enable this system to perform in both transit buses and coaches.

Fuel and Emissions Reduced

The Allison Hybrid EP system dramatically reduces both diesel fuel consumption and CO₂ emissions. An Allison Hybrid System improves fuel consumption up to 25 percent over a typical bus*.

The Allison Hybrid H 40/50 EP systems may also be equipped with a customized electric distribution platform that provides power from the hybrid system to accessory components such as electric air conditioning, electric air compressors and electric power steering systems, offering further economy improvements.

Regenerative Braking and Savings

When decelerating or stopping, the system converts the vehicle's kinetic energy to stored electric energy. In effect, the motor becomes a generator. The energy to accelerate the bus comes from the braking energy saved. The regenerative braking capability can significantly extend the brake change interval by as much as 350 percent.

Quiet Operation

The Allison Hybrid EP system helps reduce noise pollution compared to conventional buses. At 79 db @ 10 meters, buses equipped with the system approach the sound level of passenger cars. Allison also offers an optional hush mode feature, allowing buses to operate with enhanced or maximum noise reduction for designated quiet zones.

SPECIFICATIONS

Allison H 40 EP and H 50 EP Drive Unit

Physical Characteristics

Weight: 919 lbs (417 kg) dry, 944 lbs (428 kg) wet
Size: 32 (813) L x 17 (432) W x 12 (305) H* in (mm)
*height measured from centerline to sump

Input: Allison H 40 EP Drive Unit - Transit Bus

Continuous: 280 hp (209 kw)
Rated Input Torque: 910 lb-ft (1234 nm)
Rated Input Speed: 2300 rpm

Input: Allison H 50 EP Drive Unit - Suburban Coach / Articulated Bus

Continuous: 330 hp (246 kw)
Rated Input Torque: 1050 lb-ft (1424 nm)
Rated Input Speed: 2300 rpm

Energy Storage System 3 (ESS3)

Full regenerative braking recovery from 50 mph
Weight: 970 lbs (440 kg)

Dual Power Inverter Module 2 (DPIM2)

430-900 vdc 160 kw continuous 3-phase AC
Weight: 165 lbs (75 kg)

System Controller

Allison Fourth Generation Electronic Controls
Weight: 2.46 lbs (1.12 kg)

Performance

Typical acceleration power with energy storage:
H 40 EP Drive Unit – 240 hp (179 kw)
H 50 EP Drive Unit – 300 hp (224 kw)

Available Engine Options

Cummins B6.7 – 280 hp (209 kw)
Cummins L9 – 280 hp (209 kw) or 330 hp (246 kw)

MARKETING PUBLICATIONS AND VIDEOS

SERIES BROCHURE

- Hybrid Bus Brochure

TYPICAL VEHICLE APPLICATIONS

Hybrid Bus

Shuttle Bus

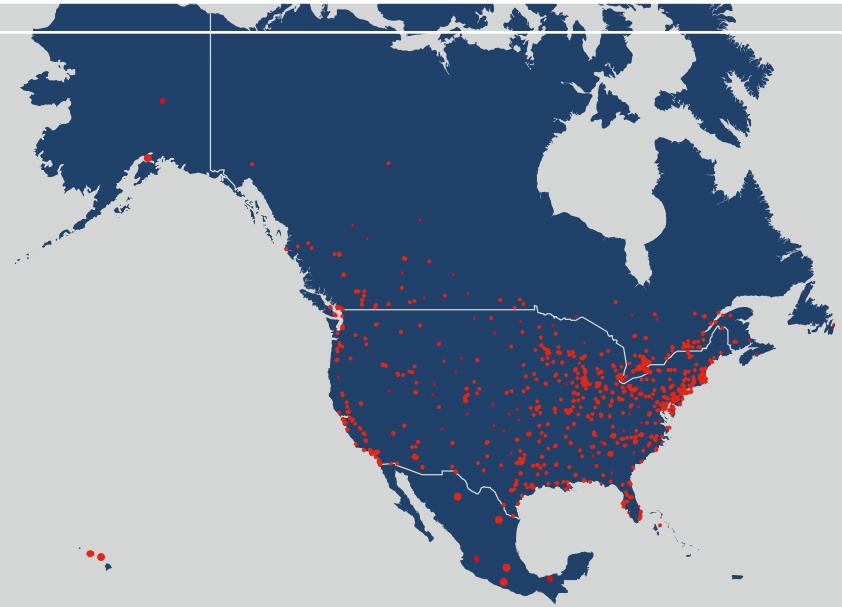
Straight/Solo Bus

Intercity Bus

Articulated Bus

TOVK Coach

BRT



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We provide a dense network of approximately 1,100 Allison Authorized Distributors and Dealers in North America, giving customers peace of mind that they can access convenient and responsive support when and where they need it.

One Allison Way
Indianapolis, Indiana, USA, 46222-3271

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