

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.

ALLISON TRANSMISSION OFF ROAD SERIES

RATINGS								
MODEL	RATIO	PARK PAWL	MAX INPUT POWER hp (kW)	MAX INPUT TORQUE lb-ft (N·m)	MAX INPUT TORQUE w/ SEM OR 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	No						
- Articulated Dump			250 (186)	664 (900)	-	1575 (2135)	98,106 (44,500)	n/a
- Rigid Dump			250 (186)	664 (900)	-	1575 (2135)	98,106 (44,500)	n/a
3200 ORS	Close Ratio	No						
- Articulated Dump			300 (224)	811 (1100)	-	1575 (2135)	98,106 (44,500)	n/a
- Rigid Dump			300 (224)	811 (1100)	-	1575 (2135)	98,106 (44,500)	n/a
- Other			Contact your Allison representative for details					
3500 ORS	Wide Ratio	No						
- Articulated Dump			330 (246)	811 (1100)	-	1420 (1925)	98,106 (44,500)	n/a
- Rigid Dump			330 (246)	811 (1100)	-	1420 (1925)	98,106 (44,500)	n/a
- Other			Contact your Allison representative for details					
4000 ORS	Close Ratio	No						
- Articulated Dump			480 (358)	1625 (2203)	-	2450 (3322)	151,017 (68,500)	n/a
- Rigid Dump			480 (358)	1550 (2100)	-	2450 (3322)	125,660 (57,000)	n/a
- Other			Contact your Allison representative for details					
4200 ORS	Close Ratio	No						
- Articulated Dump			480 (358)	1700 (2305)	-	2450 (3322)	178,574 (81,000)	n/a
4430 ORS	Wide Ratio	No						
- Articulated Dump			380 (283)	1235 (1675)	-	2450 (3322)	151,017 (68,500)	n/a
- 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	No						
- Articulated Dump			480 (358)	1550 (2100)	1625 ¹ (2203) ¹	2450 (3322)	151,017 (68,500)	n/a
- Rigid Dump			480 (358)	1550 (2100)	1625 ¹ (2203) ¹	2450 (3322)	151,017 (68,500)	n/a
- Other			Contact your Allison representative for details					
4600 ORS	Wide Ratio	No						
- Articulated Dump			480 (358)	1550 (2100)	1700 ¹ (2305) ¹	2450 (3322)	178,574 (81,000)	n/a
- Rigid Rear Dump			480 (358)	1550 (2100)	1700 ¹ (2305) ¹	2450 (3322)	178,574 (81,000)	n/a

¹ Available in gears three through six with torque limiting.

TYPICAL VEHICLE APPLICATIONS

Articulated Dump
Rigid Dump

Contact your Allison representative for other applications



4500 ORS w/o PTO



VOCATION PACKAGE NUMBER			Euro Refuse Truck	Premium Off-Highway								
REPLACEMENT PACKAGES*			127	175	190	191	195	196	235	244	245	264
			Same as 4th Gen	Same as 4th Gen	Same as 4th Gen	Same as 4th Gen	Same as 4th Gen	Same as 4th Gen	Replaces 147	New for 5th Gen	New for 5th Gen	New for 5th Gen
INPUT FUNCTIONS		Normally Activated?										
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	121
Z	Retarder Interface Input	Yes	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
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	Reduced Engine Load at Stop (RELS) Input	No							123			
AW	2nd Reverse Input	No								179	179	
BD	Automatic 2-1 Preselect Input (4000 7-Speed Only)	Yes										
BQ	Pump Mode Input (3rd Lockup)	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 Indicator	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	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	105
G1	PTO Drive Interface 1 Indicator	Yes	130	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	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										

* Replacement packages have same functions and wire number assignments, but may contain additional functions.