

## Electronically Controlled Transmissions Comparison Chart

Item	Measure	Eaton									
Models		Ultrashift PLUS MHP	Ultrashift PLUS MXP	Ultrashift PLUS LAS	Ultrashift PLUS LAS	Ultrashift PLUS LSE	Advantage Series FASA	Advantage Series FASA	Advantage Series FASA	Advantage Series FASA	Advantage Series FASA
Special Name							SmartAdvantage	SmartAdvantage	Peterbilt APEX, Kenworth Advantage	Peterbilt APEX, Kenworth Advantage	
Vehicles						Navistar					
Engines						N13	ISX15	ISX15	MX-13	MX-13	N13
Direct/Overdrive		Overdrive	Overdrive	Direct	Overdrive	Direct	Overdrive	Overdrive	Overdrive	Overdrive	Overdrive
Weight w/Clutch	(lbs.)	978	978	915	915						
Input Torque Capacity	lb-ft	1450-2050	2250	1450-1650	1450-1650	1450-1650	1450-1650	1550-1750	1650	1550-1750	1550-1750
Engine Coupling		Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch
Transmission Housing Body		Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
Max Highway Weight	(lbs.)	140000*	Unlimited	110000*	110000*		80000*	80000*	80000*	80000*	80000*
Downhill Economy Mode		Coming	Coming	Coming	Coming		Coming	Coming	Coming	Coming	Coming
Forward Gears		13	18	10	10	16	10	10	10	10	10
Reverse Gears		3	4	2	2	2	2	2	2	2	2
Overall Ratio		16.84:1	19.73:1	15.42:1	17.53:1	14.4:1	17.64:1	17.64:1	17.64:1	17.64:1	17.64:1
Features		See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary
Fully Integrated Driver Display											
Shifter Position		Tower/Dash/Column	Tower/Dash/Column	Tower/Dash/Column	Tower/Dash/Column	Tower/Dash	Tower/Dash	Tower/Dash	Tower/Dash	Tower/Dash	Tower/Dash
Gear Selector Positions		RNDMS	RNDMS	RNDMS	RNDMS	RNDMS	RNDMS	RNDMS	RNDMS	RNDMS	RNDMS
Skip Shifting		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hill Start Assist		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transmission Warranty		5yrs/500K miles	5yrs/500K miles	5yrs/750K miles	5yrs/750K miles		5yrs/750K miles	5yrs/750K miles	5yrs/750K miles	5yrs/750K miles	5yrs/750K miles
Clutch Warranty		3yrs/350K miles	3yrs/350K miles	3yrs/350K miles	3yrs/350K miles		3yrs/350K miles	3yrs/350K miles	3yrs/350K miles	3yrs/350K miles	3yrs/350K miles
Oil Drain Interval		500K miles	500K miles	500K miles	500K miles		500K miles	500K miles	500K miles	500K miles	500K miles
Fluid				13 qt.	13 qt.		8 qt.	8 qt.	8 qt.	8 qt.	8 qt.
Thru Shaft PTO							Pending				Pending
Transmission PTO											Right Side regular duty 6 bolt, Bottom heavy duty 8 bolt
Enhanced Transmission PTO											
Remote Diagnostics											

Item	Measure	Volvo I-Shift			Detroit DT-12				Allison
Models		AT2612D	ATO2612D	ATO3112D	DT12-DA	DT12-OA	DT12-DB	DT12-OB	TC10
Special Name									
Vehicles		VNM & VNL	VNM, VNL, VHD	VNL	CAS 125	CAS 125	CAS 125, CAS 113	CAS 125, CAS 113	Select Navistar
Engines		D11, D13	D11, D13	D16	DD15	DD15, DD16	DD13	DD13	N13
Direct/Overdrive		Direct	Overdrive	Overdrive	Direct	Overdrive	Direct	Overdrive	Overdrive
Weight w/Clutch	(lbs.)	597	597	611	730	730	610	610	1030
Input Torque Capacity	lb-ft	1900	1900	2250	1750	2050	1450/1650	1650	1700/3205
Engine Coupling		Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Dry Clutch	Torque Converter
Transmission Housing Body		Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	
Max Highway Weight	(lbs.)	110000*	125000*	143000*	80000*	130000*	80000*	80000*	
Downhill Economy Mode		Eco-Roll	Eco-Roll	Eco-Roll	eCoast	eCoast	eCoast	eCoast	
Forward Gears		4	12	12	12	12	12	12	10
Reverse Gears		4	4	4	4	4	4	4	2
Overall Ratio		14.94:1	15.04:1	15.04:1	14.93:1	14.96:1	14.93:1	14.96:1	8.60:1 + TC
Features		See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary	See Product Summary
Fully Integrated Driver Display		Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Shifter Position		Seat or Dash	Seat or Dash	Seat or Dash	Column	Column	Column	Column	
Gear Selector Positions		RNDM	RNDM	RNDM	RNDM	RNDM	RNDM	RNDM	RNDM
Skip Shifting		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Hill Start Assist		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Transmission Warranty		5yrs/750K miles or 15K hours	5yrs/750K miles or 15K hours	5yrs/500K miles or 12.5K hours	5 yrs/750K miles	5 yrs/750K miles	5 yrs/750K miles	5 yrs/750K miles	5 years/750,000 miles
Clutch Warranty		Normal Duty 3 years/300K miles/7500 hours Heavy Duty 3 years/250K miles/6250 hours Severe Duty 1 year/100K miles/3250 hours	Normal Duty 3 years/300K miles/7500 hours Heavy Duty 3 years/250K miles/6250 hours Severe Duty 1 year/100K miles/3250 hours	Normal Duty 3 years/300K miles/7500 hours Heavy Duty 3 years/250K miles/6250 hours Severe Duty 1 year/100K miles/3250 hours	3 yrs/350k miles	3 yrs/350k miles	3 yrs/350k miles	3 yrs/350k miles	
Oil Drain Interval		500K miles	500K miles	500K miles	3 years/300K miles	2 years/200K miles	3 years/300K miles	3 years/300K miles	5 yrs/500K miles
Fluid		15 qt.	15 qt.	15 qt.	15.4 qt.	15.4 qt.	10.7 qt.	10.7 qt.	TransSynd TES 295
Thru Shaft PTO									
Transmission PTO		Several Options	Several Options	Several Options	Not Available till 2016	Not Available till 2016	Not Available till 2016	Not Available till 2016	
Enhanced Transmission PTO		with Body Builder Module	with Body Builder Module	with Body Builder Module					
Remote Diagnostics		Volvo Link	Volvo Link	Volvo Link	Virtual Technician	Virtual Technician	Virtual Technician	Virtual Technician	

Dated: August 31, 2014

Note: In some cases data for this matrix was provided by the manufacturer and not independently verified by the NACFE or the CWR. NACFE and the CWR are not responsible for the accuracy of this data.

