



# DETROIT<sup>®</sup> DT12<sup>®</sup>

VOCATIONAL TECHNICAL SPECS

NEW DETROIT<sup>®</sup> VOCATIONAL SERIES TRANSMISSIONS WORK HARD IN EXTREME CONDITIONS SO YOU CAN, TOO. FROM HEAVY HAUL AND LOGGING TO MINING AND CONSTRUCTION, THE DT12<sup>®</sup> IS READY TO TAKE ON ANY JOB.

#### ENHANCED FEATURES INCLUDE:

##### **TOUGH GEARING FOR TOUGH APPLICATIONS.**

Large, robust gears enable greater torque input and GCW limits.

##### **NEW PTO CAPABILITIES.**

Now available in Western Star trucks, the DT12-V and DT12-VX come with rear or bottom power take-offs, offering added flexibility and application coverage for your truck.

##### **BETTER FUEL EFFICIENCY. BIGGER FUEL SAVINGS.**

A new oil pump and enhanced thermal management system utilize advanced transmission technology for better fuel economy.

#### ADDITIONAL DT12 VOCATIONAL FEATURES INCLUDE:

**Rock-Free Mode** utilizes the accelerator to help rock your vehicle free in wheel-stuck situations.

**Off-Road Mode** features shift maps for maximum performance on any terrain.

**Paver Mode** enables dump trucks to shift from neutral to drive without pressing the brake pedal, ensuring a steady flow to the paving machine.

**Power Launch** automatically increases engine speed up to 1,200 RPM for smooth, powerful take-offs with heavy loads – all while protecting the clutch and driveline.





### Detroit DT12 Vocational Specifications

	DT12-V	DT12-VX
Speeds	12 forward / 4 reverse	12 forward / 4 reverse
Shift actuation	Pneumatic	
Clutch actuation	Pneumatic	
Max. input torque (lb-ft)	2,250	2,500
Max. GCWR (lb)	160,000	330,000
Overall ratio	19	16
Weight (dry / clutch)	650lbs / 112lbs*	650lbs / 112lbs*
Installation length	1199	1199
PTO capability	Rear / SAE 8-Bolt Bottom	Rear / SAE 8-Bolt Bottom
Truck Model Availability	Western Star 47X, 49X & 114SD	Western Star 49X
Engine Compatibility	DD13 Gen 5 DD15 Gen 5, DD16	DD15 Gen 5, DD16

\*DD16 or GVW over 160k requires a dual plate clutch which weighs 181.7lbs. Any vocational transmission can be opted up to a dual plate clutch.

### DETROIT CONNECT VIRTUAL TECHNICIAN<sup>®</sup> REMOTE DIAGNOSTIC SYSTEM

If maintenance issues come up on the road, you can count on Detroit Connect Virtual Technician. With Virtual Technician, you are notified within minutes of a vehicle fault event. You will receive information on the severity of the fault and guidance including when, where and how to best fix the issue causing the event.

### Maintenance Intervals

Item	Mi/Km/Lbs	DT12 <sup>®</sup> -V: Short Haul	DT12 <sup>®</sup> -V: Severe	DT12-VX: Severe
Weight	Lbs	Greater than 80K to 140K lbs	Greater than 140,000 lbs	Greater than 140,000 lbs
Literature Limit	Miles	300,000	180,000	180,000
	Km	480,000	300,000	300,000
Maintenance System Settings (Max Mileage)	Miles	Up to 400,000	up to 180,000	up to 180,000
	Km	Up to 640,000	Up to 300,000	Up to 300,000
A85 Codes		A85-002 PICK UP AND DELIVERY (SHORT HAUL) AND A85-016 TRANSFER REFUSE	A85-027 HEAVY HAUL SERVICE AND ALL OTHER "SEVERE" APPLICATIONS	A85-027 HEAVY HAUL SERVICE AND ALL OTHER "SEVERE" APPLICATIONS

\*Maintenance System will automatically adjust maintenance intervals depending on multiple factors (transmission type, cooler type, field conditions, driving style, etc.). See DDC-SVC-BRO-0118 on DTNA Connect for more information. US & Canada Only.

### Standard Warranty

Application	GVW/GCW	Warranty – Transmission
P&D	< 110k lbs	36 mo / Unlimited
Construction	< 140k lbs	36 mo / Unlimited
Transfer Refuse	< 110k lbs	24 mo / Unlimited
Logging	< 140k lbs – DT12-V	24 mo / Unlimited
	< 250k lbs – DT12-VX	
Mining/Oil Field	< 140k lbs – DT12-V	24 mo / Unlimited
	< 250k lbs – DT12-VX	
Heavy Haul	< 275k lbs	24 mo / Unlimited

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