



Vehicle Attachment – New Flyer General Information and Vehicle Specifications

Flushing, NY

HWY17MH015

(8 pages)

**3. VEHICLE SPECIFICATIONS****NOTE:**

Refer to the Major Component Layout when reviewing information in this manual.

VEHICLE TYPE	
Model	New Flyer XD40 transit bus
Customer	New York City Transit - [REDACTED]
Build Year (Units 7090-7365)	2014
Build Year (Units 7366-7437)	2015
ENGINE	
Engine	Cummins ISL 9L (EPA 2015)
Horsepower	280 HP
Torque	900 ft-lb.
FUEL	
Fuel	Ultra low sulphur diesel
Usable Fuel Capacity	125 U.S. gallons (473 liters)
TRANSMISSION	
Transmission	Allison B400R
Transmission Controls	5th Generation
Self-Contained Retarder	3 stage - 25% accelerator, 66% rear brake, 100% front brake activated
DIMENSIONS	
Length (over bumpers)	41 ft. (12.5 m)
Width	8.5 ft. (2.6 m)
Height	10.5 ft. (3.2 m)
Wheelbase	23.6 ft. (7.2 m)
Turning Radius	44 ft. (13.4 m)
Approach/Departure Angle	9°
Vehicle Weight (approx.)	28,125 lbs. (12,755 kg)

**VEHICLE SPECIFICATIONS**

Gross Vehicle Weight Rating (GVWR)	42,540 lbs. (19,290 kg)
AXLES & SUSPENSION	
Front Axle	MAN VOK-07-F
Front Gross Axle Weight Rating (GAWR)	14,780 lbs. (6,700 kg)
Front Axle Ride Height	4" (102 mm)
Suspension Air Springs	Firestone
Suspension Shock Absorbers	Koni
Rear Axle	MAN HY-1350-F (5.67:1)
Rear Gross Axle Weight Rating	27,760 lbs. (12,590 kg)
Rear Axle Ride Height	3.8" (97 mm)
Suspension Air Springs	Firestone
Suspension Shock Absorbers	Koni
Driveshaft	Prop Shaft Supply 1710 with crosstooth flange & half-round connections
STEERING	
Steering Gear	R.H. Sheppard M110 with remote miter box
Oil Flow	3.6 gal/min
Pressure Relief	1,850 psi
Steering Column	Douglas Autotec 9204 series
WHEELS & TIRES	
Tires	Goodyear
Tire Model (Front)	G152+
Tire Model (Rear)	RHD II
Tire Size	305/70R22.5
Inflation Pressure (Front)	120 psi
Inflation Pressure (Rear)	130 psi
Rim Mounting	10 bolt hub piloted
Wheels	Steel



Maximum Load (single tire)	7,390 lbs. @ 120 psi
Maximum Load (dual tires)	6,940 lbs. @ 130 psi
BRAKE SYSTEM	
Brakes, Mechanical (front)	<i>Knorr-Bremse</i> SN7000 air-actuated sliding caliper disc brakes
Brakes, Mechanical (rear)	<i>Knorr-Bremse</i> SN7000 air-actuated sliding caliper disc brakes
Wear Sensor (front)	End of life wear sensors in brake pads
Wear Sensor (front)	Continuous wear sensor in calipers
Wear Sensor (rear)	End of life wear sensors in brake pads
Wear Sensor (rear)	Continuous wear sensor in calipers
Service Brake Chamber (front)	<i>MGM</i>
Service Brake Chamber (rear)	<i>MGM</i>
Antilock Braking System (ABS)	<i>Meritor Wabco</i> ABS on all wheels
Automatic Traction Control (ATC)	<i>Meritor Wabco</i> ATC on rear wheels
Parking Brake Application	Spring brake chamber applied with push/pull control valve located on side console
Parking Brake Release	Spring brake chamber released with application of air from push/pull control valve located on side console
Emergency Brake Application	Spring brake chamber applied with loss of reservoir pressure, modulated with brake treadle application
HVAC SYSTEM	
HVAC Unit	<i>Thermo King</i> RLF2-M18 rooftop unit
Defroster	<i>Mobile Climate Control</i>
Floor Mounted Heaters	2 <i>Mobile Climate Control</i> in passenger area
Entrance Heater	<i>Mobile Climate Control</i>
COOLING SYSTEM	
Engine Radiator	<i>Engineered Machined Products (EMP)</i> XPL2D Radiator/CAC assembly with Fil-11 pusher-type fans
Transmission Oil Cooler	Direct mounted cooler with integral sump cooling
Power Steering Reservoir	<i>Cummins</i> reservoir
Power Steering Pump	<i>Ixetic</i>

**VEHICLE SPECIFICATIONS**

AIR SYSTEM	
Compressor	<i>Wabco</i> twin compressor, 30.4 CFM, 11 tooth
Governor	<i>Bendix</i> D2 narrow band (117 to 131 psi)
Air Dryer	<i>Haldex</i> Gemini tandem air dryer with 24V heater & 12 volt condensor/separator
STARTING SYSTEM	
Starter	<i>Delco-Remy</i> 42MT, 24 Volt
CHARGING SYSTEM	
Alternator	<i>Engineered Machined Products (EMP)</i> 450
Alternator Voltage	24 Volt
Alternator Current	450 Amp
Voltage Regulator	<i>Delco-Remy</i> 50 VR
Voltage Equalizer	<i>Vanner Power Group</i> 12/24 Volt, 80 Amp
Batteries (2)	<i>East Penn Manufacturing</i>
Battery Type	High Cycle
Battery Group Size	8D
Battery Charge Voltage	27.5 ± 0.3 Volts
EXTERIOR LIGHTING	
Headlights	Integrated unit with 12 Volt LED low beam, H11 incandescent high beam, & amber LED turn lights
Exterior Stop/Tail Lights	12 Volt LED
Side Turn/Marker Lights	12 Volt LED
Clearance Lights	12 Volt LED
INTERIOR LIGHTING	
Aisle Lights	<i>Pretoria</i> 24 Volt LED lights, Gen 4, dimmable



INSTRUMENTATION	
Instrument Panel	<i>Parker-Vansco</i> electronic
	User programmable inputs, outputs, gauges, telltales & LCD display
	2 Controller Area Network (CAN) ports for J1939 chassis/ drivetrain networks
	USB device port for communicating with a PC
Overhead Recess Panel	Destination sign controller
	Fire suppression monitor & manual actuator
	Retarder operation switch
MULTIPLEXING SYSTEM	
Multiplexing Module (VMM) System with J1939 Network Communication	<i>Parker-Vansco</i> VMM 1615 modules (8)
Instrument Panel	<i>Parker-Vansco</i> electronic
AVA/AVL SYSTEM	
Driver/Vehicle Monitoring System	<i>New Flyer Connect™</i> System
AVM System	<i>Clever Devices</i> IVN4 control unit
DESTINATION & ROUTE SIGNS	
Sign Control	<i>Luminator</i> Operator Display Keyboard 4 (ODK 4)
Front Destination	<i>Luminator</i> Titan series
Side Destination	<i>Luminator</i> Titan series
Front Route	<i>Transign</i>
Rear Route	<i>Luminator</i> SMT series
DOORS	
Entrance Door	<i>Vapor</i> Gen 4, slide glide
Entrance Door Opening Size	Medium
Limit Switches	Inductive proximity switches
Exit Door	<i>Vapor</i> swing (air open/spring close)
Exit Door Opening Size	Narrow
Limit Switches	Inductive proximity switches



VEHICLE SPECIFICATIONS

NEW FLYER

Driver's Door Control	5-position door controller located on the side console
Door Entry Control	Entrance door manual dump valve, located on vertical face of driver's side console
Passenger Door Control	Contactless Acoustic Sensors (CLASS)
WINDOWS	
General	<i>Arow Global</i> , top tip-in
Mounting	Frame
Frame	Black anodized aluminum
Glazing	Laminated glass
Tinting	Grey, 44% light transmittance
Driver's Window	Front slider with interior & exterior handles
Glazing	Laminated glass
Tinting	Green, 72% light transmittance
Emergency Escape	2 curbside & 4 streetside identified with labels
SEATING	
Driver's	<i>Recaro Ergo Metro AM72</i>
Passenger (Units 7090-7109, 7140-7437)	<i>American Seating Metropolitan</i>
Passenger (Units 7110-7139)	<i>4ONE Gemini</i>
Passenger Seating Quantity	38
Wheelchair Stations	2 (seats fold up & lock)
FLOOR & SUBFLOOR	
Subfloor	Plywood
Flooring	<i>Tarabus Helios 8806</i>
Sealant	<i>Altro</i>
SAFETY FEATURES	
Emergency Escape Exits	2 curbside windows identified with labels
	4 streetside windows identified with labels
	1 roof hatch



Fire Extinguisher	5 lb ABC rating
Fire Extinguisher Location	Driver's barrier
Entrance Door Emergency Release	Rotary valve located in the R/H lower dash
Exit Door Emergency Release	Pull handle located behind breakable cover, forward of exit door
Accelerator & Brake Interlocks	Refer to "Interlock System" in this manual for information on interlock operation
Obstruction Detection System	Contactless Acoustic Sensors (CLASS) at exit door
Fire Suppression System	<i>Dual Spectrum</i>
Silent Alarm	Located on side console
Camera System	<i>Mobileview</i> system with 6 cameras

ACCESSIBILITY FEATURES

Wheelchair Ramp	<i>Lift-U</i> Lu11 Gen 3
Wheelchair Ramp Width	Flip-out aluminum 32"
Wheelchair Ramp Slope Ratio	1:7 slope @ 9.5" & 1:6 slope @ 10.6"
Wheelchair Ramp Max. Load Capacity	950 lbs. (431 kg.)
Kneeling	Front suspension, rapid recovery