

Equipment details

Bodies:	Aluminium extrusions welded and huckbolted (FICAS Technology).
Bogies:	BTUK Flexible frame.
Couplers:	Wedglock with pneumatic connections only on the A and A1 cars, swing bolt bar coupler between D and D1 cars, bolted bar coupler flange at all other positions.
Traction System:	Bombardier 3 phase AC, 75% motored. 24 motors, each rated at 75KW with Regenerative and Rheostatic braking.
Compressors:	Knorr-Bremse VVI20T oil free reciprocating – 3 Phase AC Motor.
Brakes:	Knorr-Bremse EP2002 with PEC7 actuators.
ATO:	Westinghouse DTG-R (Distance to go - radio).
ATP:	Radio transmission based system, Westinghouse, DTG-R.
Auxiliary power Supplies:	Bombardier static converter, one per four car unit, on the B cars. 110V dc control system with 102V 200Ah DC battery on the B cars.
Saloon lighting:	19 (A cars) or 22 (B/C/D cars) (including emergency lighting) fluorescent T5 Tubes via individual inverters per car.
Emergency lighting:	7 (A cars) or 9 (B/C/D cars) battery-fed fluorescent T5 Tubes via individual inverters per car normally forming part of the main saloon lighting.
Ventilation:	Saloon forced ventilation system that consists of six side mounted ducting systems to take the exterior air to air grilles mounted at head height. Dedicated cab air conditioning.
Passenger Information:	An LED external facing front destination display with separate train number display per train front. One external platform facing destination LED display per vehicle side. Six internal side facing Saloon LED displays per car.
CCTV:	OPO TTCCTV displayed on 2 monitors in cab via UHF leaky feeder. Saloon CCTV system viewable in cab when stationary and recorded digitally.
Doors:	Six electrically operated sliding doors per side, externally hung and configured as two double doorways and two single door ways. Fitted with obstacle detection and sensitive edge plus threshold lighting when doors are open.



2009 Tube Stock

Victoria line



Built by Bombardier Transportation UK, Derby 2007-2011

Due to enter service in 2009 - 2012

Maintained by : LUL Nominee Company BCV

Principal characteristics

Track gauge:	1435mm
Current system:	630v dc 3rd and 4th rail, shoe gear fitted to A and D cars
Types of vehicle:	A(1) : Driving Motor car (DM) B : Trailer car (T) C : Non Driving Motor car (NDM) D(1) : Uncoupling Non Driving Motor car (UNDM)
Formation per unit:	A(1) car – B car – C car – D(1) car
Formation per train (8):	A – B – C – D + D1 – C – B – A1
Number of trains:	47 eight car.
Operation:	One Person Operated (OPO) Automatic Train Operation (ATO) Manual Driving (Protected Manual or Restricted Manual)

Information sheet date: January 2011



