



CLASS **170**

C6 Overhaul

Cross Country, London Midland,
Abellio Greater Anglia, Abellio ScotRail.

Due for completion: 2018



OVERVIEW

Train Door Solutions (TDS) has designed and supplied a new valve module and electronic controller for Class 170 interior door system.

The project was sponsored by Porterbrook Leasing and is currently in service with London Midland Railways, Trans Pennine Express, First ScotRail, Cross Country and London Eastern Railways.

The new system interfaces with the existing door mechanism and is controlled by the existing door open sensors, push-buttons and smoke detector (where fitted).

All new components have a proven service history and are manufactured on behalf of TDS by the industries top suppliers.

The parts from TDS will improve the reliability and performance of the door system. Functionality and safety of the system has been maintained.

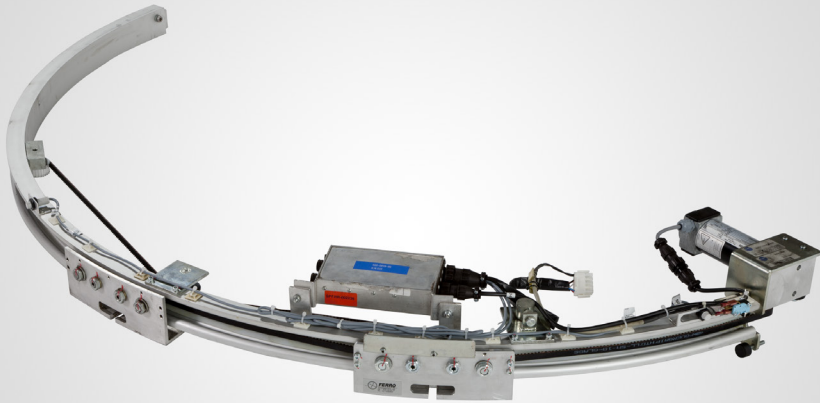
Atkins Rail has independently reviewed the door system upgrade against mandatory requirements and has concluded that it does not impact on group standards.

The parts are provided with a full 12 month warranty.

COMPONENTS

- VALVE MODULE
- ELECTRONIC CONTROL UNIT
- CLOSE POSITION SWITCH
- ISOLATOR SWITCH
- AIR REGULATOR AND ISOLATOR VALVE
- DOOR ACTUATOR
- ALL NECESSARY FITTINGS AND TUBING





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TECHNICAL SPECIFICATION

VALVE MODULE: Two station manifold block containing the door open and close valves, obstacle detection pressure switches and speed controllers.

ECU: Programmable controller that uses visual logic software.

CLOSE SWITCH: Lever operated snap-action micro-switches.

ACTUATOR: 32mm double acting, double rod cylinder with adjustable end stroke cushioning.

REGULATOR: Air supply regulator complete with pressure gauge and locking adjuster knob.

ISOLATOR VALVE: Miniature ball valve.

ISOLATOR SWITCH: Illuminated push-button switch.

FITTINGS & TUBE: All pneumatic connections are push-in quick release type. All tubing is nylon in accordance with BS5409.

WIRING LOOM: The electrical wiring between the system components will consist of a wiring loom manufactured from low smoke, low toxicity cable and will utilise plug connectors for easy connection.

CONTROL	ELECTRO-PNEUMATIC
INPUT VOLTAGE	24 VDC
VOLTAGE RANGE	+/- 30% OF INPUT VOLTAGE
TEMPERATURE RANGE	-10°C TO +65°C
OPERATING PRESSURE	5 BAR



UAT DOOR: Curved toilet door mechanism with electrical motor and gearbox and electrical controller.

