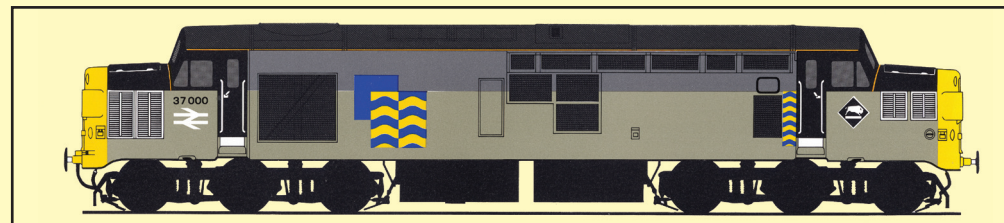




# Sub-class Technical Data



Sub class:	37/0	37/3	37/4	37/5	37/6	37/7	37/9
TOPS number range:	37001-37308	37330-37383	37401-37431	37503-37521, 37667-37699	37601-37612	37701-37899	37901-37906
1957 BR number range:	D6600-D6999	From main fleet	From main fleet	From main fleet	From main fleet	From main fleet	From main fleet
Former class codes:	D17/1, then 17/3	37/0	37/0	37/0	37/5	37/0	37/0
Built by:	English Electric, Vulcan Foundry or Robert Stephenson & Hawthorn	-	-	-	-	-	-
Refurbished by:	-	BR Depots	BREL Crewe	BREL Crewe	BRML Doncaster	BREL Crewe	BREL Crewe
Years introduced:	1960-1965	1988-1995	1985-1986	1986-1987	1994-1996	1986-1987	1986-1987
Wheel arrangement:	Co-Co	Co-Co	Co-Co	Co-Co	Co-Co	Co-Co	Co-Co
Weight:	102-108 tonnes	102-108 tonnes	107 tonnes	107 tonnes	106 tonnes	120 tonnes	120 tonnes
Height:	Between 12ft 9 <sup>1</sup> / <sub>16</sub> in and 13ft 0 <sup>3</sup> / <sub>16</sub> in (3.96m) (3.89m-3.96m) #	Between 12ft 9 <sup>1</sup> / <sub>16</sub> in and 13ft 0 <sup>3</sup> / <sub>16</sub> in (3.96m) (3.89m-3.96m) #	13ft 0 <sup>3</sup> / <sub>16</sub> in (3.96m)	13ft 0 <sup>3</sup> / <sub>16</sub> in (3.96m)	13ft 0 <sup>3</sup> / <sub>16</sub> in (3.96m)	13ft 0 <sup>3</sup> / <sub>16</sub> in (3.96m)	13ft 0 <sup>3</sup> / <sub>16</sub> in (3.96m)
Length:	61ft 6in (18.74m)	61ft 6in (18.74m)	61ft 6in (18.74m)	61ft 6in (18.74m)	61ft 6in (18.74m)	61ft 6in (18.74m)	61ft 6in (18.74m)
Width:	8ft 11 <sup>5</sup> / <sub>16</sub> in (2.73m)	8ft 11 <sup>5</sup> / <sub>16</sub> in (2.73m)	8ft 11 <sup>5</sup> / <sub>16</sub> in (2.73m)	8ft 11 <sup>5</sup> / <sub>16</sub> in (2.73m)	8ft 11 <sup>5</sup> / <sub>16</sub> in (2.73m)	8ft 11 <sup>5</sup> / <sub>16</sub> in (2.73m)	8ft 11 <sup>5</sup> / <sub>16</sub> in (2.73m)
Wheelbase:	50ft 8in (15.44m)	50ft 8in (15.44m)	50ft 8in (15.44m)	50ft 8in (15.44m)	50ft 8in (15.44m)	50ft 8in (15.44m)	50ft 8in (15.44m)
Bogie wheelbase:	13ft 6in (4.11m)	13ft 6in (4.11m)	13ft 6in (4.11m)	13ft 6in (4.11m)	13ft 6in (4.11m)	13ft 6in (4.11m)	13ft 6in (4.11m)
Bogie pivot centres:	37ft 2in (11.32m)	37ft 2in (11.32m)	37ft 2in (11.32m)	37ft 2in (11.32m)	37ft 2in (11.32m)	37ft 2in (11.32m)	37ft 2in (11.32m)
Wheel diameter:	3ft 7in (1.14m)	3ft 7in (1.14m)	3ft 7in (1.14m)	3ft 7in (1.14m)	3ft 7in (1.14m)	3ft 7in (1.14m)	3ft 7in (1.14m)
Min curve negotiable:	4 chains (80.46m)	4 chains (80.46m)	4 chains (80.46m)	4 chains (80.46m)	4 chains (80.46m)	4 chains (80.46m)	4 chains (80.46m)
Engine type:	English Electric 12CSVT	English Electric 12CSVT	English Electric 12CSVT	English Electric 12CSVT	English Electric 12CSVT	English Electric 12CSVT	Mirrlees MB275T ●
Engine output:	1,750hp (1,304kW)	1,750hp (1,304kW)	1,750hp (1,304kW)	1,750hp (1,304kW)	1,750hp (1,304kW)	1,750hp (1,304kW)	1,800hp (1,340kW)
Power at rail:	1,250hp (932kW)	1,250hp (932kW)	1,254hp (935kW)	1,250hp (932kW)	1,250hp (932kW)	1,250hp (932kW)	1,300hp (940kW)
Tractive effort:	55,500lb (245kN)	56,180lb (250kN)	57,440lb (256kN)	55,590lb (248kN)	55,500lb (245kN)	62,000lb (276kN)	62,680lb (279kN)
Cylinder bore:	10in (0.25m)	10in (0.25m)	10in (0.25m)	10in (0.25m)	10in (0.25m)	10in (0.25m)	10 1/4in (0.275m)
Cylinder stroke:	12in (0.30m)	12in (0.30m)	12in (0.30m)	12in (0.30m)	12in (0.30m)	12in (0.30m)	12 1/4in (0.305m)
Maximum speed:	As built 90mph (145km/h) Modified 80mph (129km/h)	80mph (129km/h)	90mph (145km/h)	80mph (129km/h)	90mph (145km/h)	80mph (129km/h)	80mph (129km/h)
Brake type:	Vacuum, later dual*	Dual	Dual	Dual	Air	Dual	Dual
Brake force:	50 tonnes	50 tonnes	50 tonnes	50 tonnes	50 tonnes	50 tonnes	50 tonnes
Route availability:	5	5	5	5	5	7	7
Heating type:	Steam, later removed	Not fitted	Electric, index 30	Not fitted	Through wired	Not fitted	Not fitted
Multiple coupling type:	Blue star	Blue star	Blue star	Blue star	Blue star, plus DRS	Blue star	Blue Star
Main generator type:	EE822-10G, EE822-13G or EE822-16J	EE822-10G	-	-	-	-	-
Main alternator type:	-	-	Brush BA1005A	Brush BA1005A	Brush BA1005A	Brush BA1005A■	Brush BA1005A
Aux generator type:	EE911/5C	EE911/5C	-	-	-	-	-
Aux alternator type:	-	-	Brush BA606A	Brush BA606A	Brush BA606A	Brush BA606A	Brush BA606A
ETS alternator type:	-	-	Brush BAH701	-	-	-	-
Traction motor type:	EE538-1A	EE538-1A	EE538-5A	EE538-5A	EE538-5A	EE538-5A	EE538-5A
No of traction motors:	6	6	6	6	6	6	7
Gear ratio:	53:18	53:18	59:16	59:16	59:16	59:16	59:16
Fuel tank capacity:	890gal (4,046lit)	890gal (4,046lit)	1,690gal (7,682lit)	1,690gal (7,682lit)	1,690gal (7,682lit)	1,690gal (7,682lit)	1,690gal (7,682lit)
Cooling water capacity:	160gal (727lit)	160gal (727lit)	160gal (727lit)	160gal (727lit)	160gal (727lit)	160gal (727lit)	160gal (727lit)
Lub oil capacity:	120gal (545lit)	120gal (545lit)	120gal (545lit)	120gal (545lit)	120gal (545lit)	120gal (545lit)	120gal (545lit)
Sanding equipment:	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Special fittings:	OTMR	CP7 bogies	Some locos - RETB OTMR	-	CP7 Bogies, OTMR	-	-
Operator:	EWS, DRS, WCRC, HNRC	EWS, Riviera	EWS, DRS Private owner	EWS, DRS	DRS	EWS, HNRC	EWS, Private
Sub class variations:	Basic locomotive, fitted with steam heating, later removed	Fitted CP7 bogies	Refurbished loco fitted with electric train supply and CP7 bogies	Refurbished standard freight locos	Refurbished locos, for Nightstar and Eurostar tractor use. Fitted with special jumpers.	Refurbished heavy weight freight locos	Refurbished heavy weight freight locos, fitted with experimental power units for Class 38 development
Notes:	* Dual brake fitting commenced in October 1968 with No. D6724, the work took more than 20 years to complete					■ 37796-37803 have GEC G564AZ	● 37905-906 fitted with Ruston RK270T engine