

B.R. Electric Locomotive

Diagram Book

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PREFACE

- 1. It should be noted that this Electric Locomotive Diagram Book completely replaces the earlier (page size $11" \ge 5\frac{3}{4}"$) edition which must be destroyed.
- 2. A complete set of locomotive diagram books consist of the following :-

Diagram Book	Publication No.
a) Main Line Diesel Locomotive	MT/25
b) Electric Locomotive	MT/20
c) Shunting Diesel Locomotive	MT/27

Each separate book contains relevant index sheets to relate the locomotive number to the applicable diagram number.

3. This diagram book has been updated up to and including 30th June 1909.

Ref : DR171-125-2(MWEJ) Tel : 056-3582

Date: 15th January 1970

Issued by : Chief Engineer (Traction & Rolling Stock) The Railway Technical Centre DERBY

JUNE 1969

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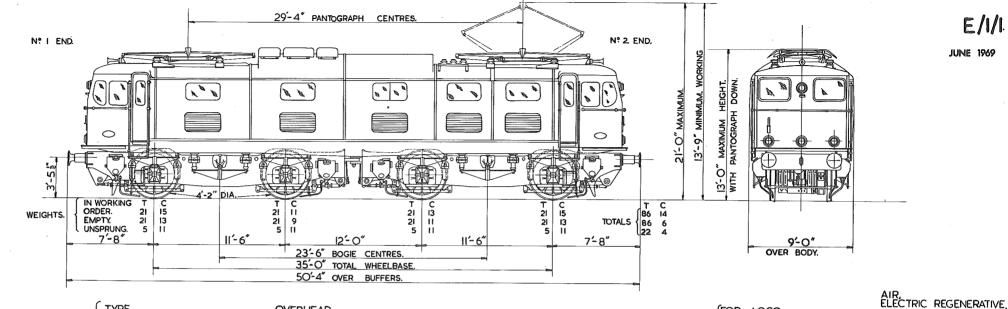
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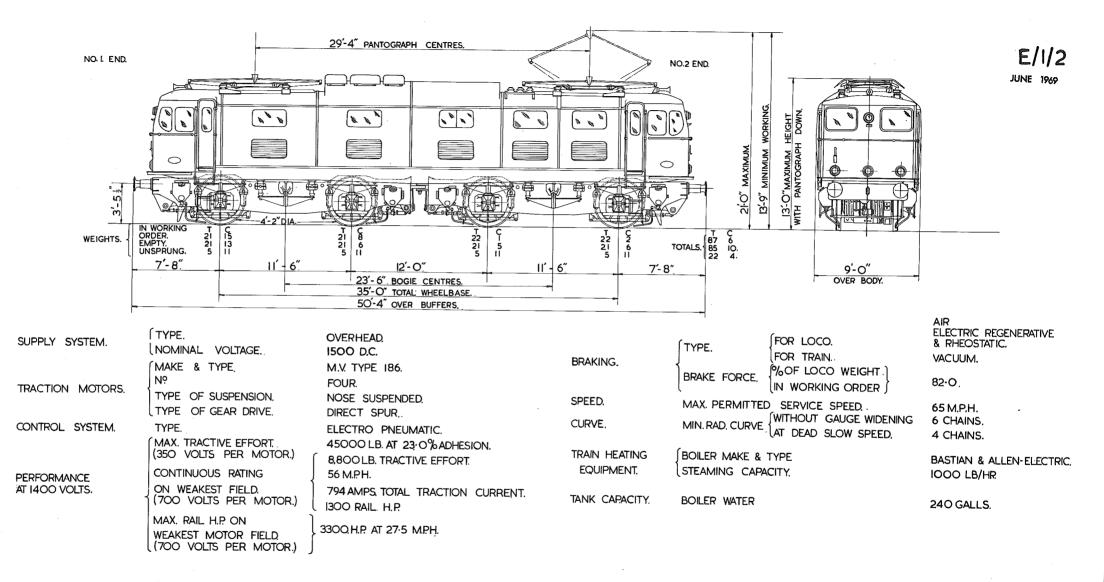
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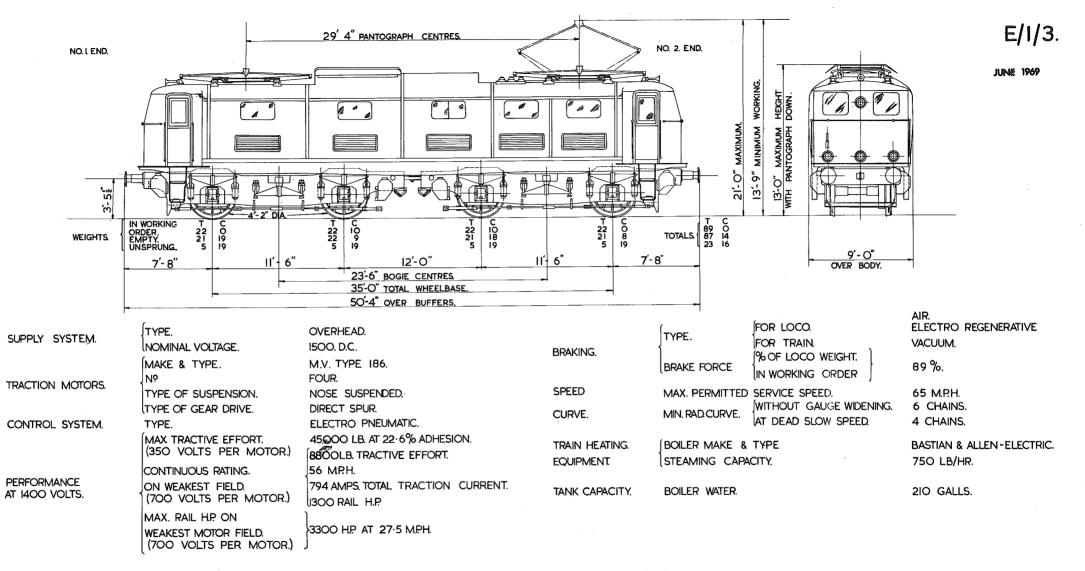
SUPPLY SYSTEM.	{ TYPE NOMINAL VOLTAGE,	OVERHEAD. 1500. D.C.		TYPE. FOR LOCO.	ELECTRIC REGENERATIVE, & RHEOSTATIC. VACUUM.
TRACTION MOTORS.	∫ MAKE [,] & TYPE. ∫ №	M.V. TYPE. 186. FOUR.	BRAKING.	BRAKE FORCE, {OF LOCO WEIGHT }	82.6
TRACTION MOTORS.	TYPE OF SUSPENSION	NOSE SUSPENDED.	SPEED.	MAX. PERMITTED SERVICE SPEED.	65 M.P.H.
CONTROL SYSTEM.	(TYPE OF GEAR DRIVE. TYPE.	DIRECT SPUR. ELECTRO PNEUMATIC.	CURVE.	MIN. RAD. CURVE. WITHOUT GAUGE WIDENING AT DEAD SLOW SPEED.	6 CHAINS. 4 CHAINS.
	(350 VOLTS PER MOTOR.)	45000 LB AT 23.2% ADHESION 8,800 LB TRACTIVE EFFORT	TRAIN HEATING EQUIPMENT	BOILER MAKE & TYPE STEAMING CAPACITY	NOT FITTED
	CONTINUOUS RATING	56MPH			
PERFORMANCE AT 1400 VOLTS,	ON WEAKEST FIELD. (700 VOLTS PER MOTOR.)	794 AMPS. TOTAL TRACTION CURRENT. I300 RAIL H.P.	TANK CAPACITY	BOILER WATER.	
	MAX. RAIL H.P. ON WEAKEST MOTOR FIELD. (700 VOLTS PER MOTOR.)	, 3300 H.P. at 27:5 M.P.H.			· .

E.M.I. BR. B+B. D.C. ELECTRIC LOCOMOTIVE.

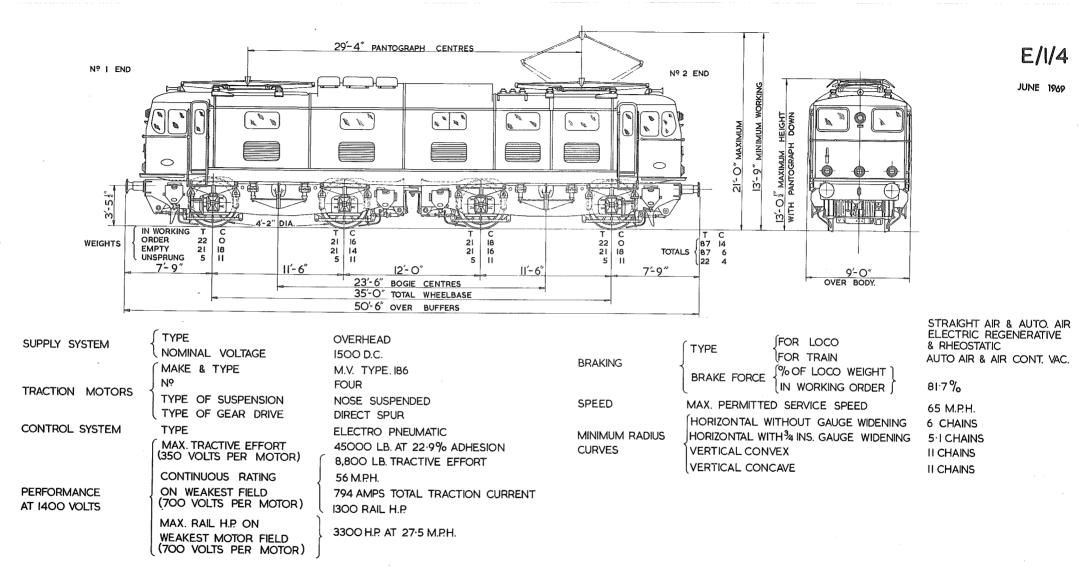
CLASS 76



E.M.I. B.R. B+B D.C. ELECTRIC LOCOMOTIVE.



E.M.I. B.R. B+B D.C. ELECTRIC LOCOMOTIVE.

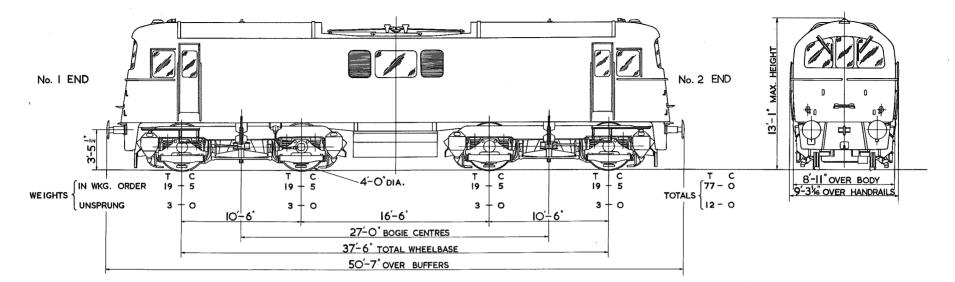


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E.M.I. BR.B.+B. D.C. ELECTRIC LOCOMOTIVE

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JUNE 1969



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SUPPLY SYSTEM	TYPE NOMINAL VOLTAGE (MAKE & TYPE	THIRD RAIL OR OVERHEAD IN YDS, ETC. 660-750 VOLTS D.C. ENGLISH ELECTRIC E.E.532	BRAKING		STRAIGHT AIR & AUTOMATIC AIR AUTOMATIC AIR & AIR CONTROLLED VACUUM
TRACTION MOTORS	No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE	FOUR FULLY SUSPENDED SINGLE REDUCTION	SPEED	BRAKE FORCE {IN WORKING ORDER MAX. PERMITTED SERVICE SPEED (HORIZONTAL WITHOUT GAUGE WIDENING	88% 90 M.P.H. 4 CHAINS
CONTROL SYSTEM	TYPE (MAX. TRACTIVE EFFORT (675 VOLTS PER MOTOR)	BOOSTER 43000 LB. AT 25% ADHESION (12400 LB. TRACTIVE EFFORT	MINIMUM RADIUS CURVES	HORIZONTAL WITH ³ / ₄ GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	3 CHAINS 11 CHAINS 11 CHAINS
PERFORMANCE AT 675 VOLTS	CONT. RATING ON WEAKEST FIELD (675 VOLTS PER MOTOR)	69-6 M.P.H. 3000 AMPS. TOTAL TRACTION CURRENT 2300 RAIL H.P.	TRAIN HEATING EQUIPMENT	ELECTRIC HEATING CONT. OUTPUT	300 K.W.
	MAX.RAIL H.P. ON WEAKEST MOTOR FIELD (675 VOLTS PER MOTOR)	3000 H.P. AT 59·3 M.P.H.			

B.R. B-B D.C. ELECTRIC LOCOMOTIVE.

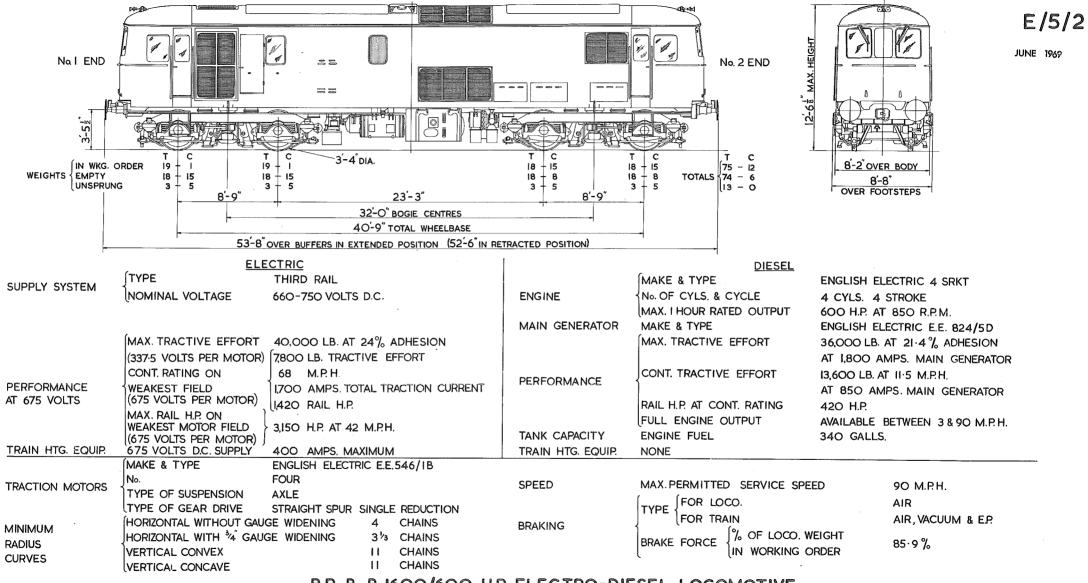
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		40-9 TOTAL WHEELBASE				
-	53-8" OVER	BUFFERS IN EXTENDED POSITION (52-	6" IN RETRACTED POSITION)			
SUPPLY SYSTEM	- ↓ · · · -	<u>IC</u> RD RAIL 9-750 VOLTS D.C.	ENGINE MAIN GENERATOR	DIESEL MAKE & TYPE No. OF CYLS. & CYCLE MAX. I HOUR RATED OUTPUT MAKE & TYPE	ENGLISH E 4 CYLS. 4 600 H.P. A	ELECTRIC 4 SRKT 4 STROKE AT 850 R.P.M. ELECTRIC E.E. 824/3D
PERFORMANCE AT 675 VOLTS	(337-5 VOLTS PER MOTOR) (9,60 CONT. RATING ON 55-9 WEAKEST FIELD 1,70	OOO LB. AT 25% ADHESION OO LB. TRACTIVE EFFORT 5 M.P.H. O AMPS. TOTAL TRACTION CURRE O RAIL H.P.	ENT	MAX. TRACTIVE EFFORT CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING	AT 1,500 /	AT 20.3% ADHESION AMPS. MAIN GENERATOR AT IO M.P.H. MPS. MAIN GENERATOR
TRAIN HTG. EQUIP.	(675 VOLTS PER MOTOR)) 675 VOLTS D.C. SUPPLY 400	50 H.P. AT 37 M.P.H. O AMPS. MAXIMUM	TANK CAPACITY TRAIN HTG. EQUIP	FULL ENGINE OUTPUT ENGINE FUEL PREHEATING	340 GALL	BETWEEN 3 & 80 M.P.H. .S. AL FROM MAIN GENERATOR
TRACTION MOTORS	N₀. FOU TYPE OF SUSPENSION AXL	.E AIGHT SPUR SINGLE REDUCTION	SPEED	MAX. PERMITTED SERVICE	SPEED	80 M.P. H. AIR AIR. VACUUM & E.P.
MINIMUM RADIUS CURVES	HORIZONTAL WITHOUT GAUGE W HORIZONTAL WITH 34 GAUGE W VERTICAL CONVEX VERTICAL CONCAVE	VIDENING 3 ¹ /₃ CHAINS { CHAINS CHAINS	D H.P. ELECTRO-DIE	BRAKE FORCE {% OF LOC IN WORKIN	NG ORDER	82·7%

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B.R. B-B 1600/600 H.P. ELECTRO-DIESEL LOCOMOTIVE

CLASS 73/2

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SUPPLY SYSTEM PERFORMANCE AT 675 VOLTS TRAIN HTG.EQUIPT.	ELEC TYPE NOMINAL VOLTAGE MAX. TRACTIVE EFFORT CONT. RATING ON WEAK FIELD MAX. RAIL H.P. ON WEAK FIELD 675 VOLTS D.C. SUPPLY.	TRIC. THIRD RAIL 675 VOLTS D.C. 47,500 LB. AT 25 % ADHESION [2400 LB. TRACTIVE EFFORT 69.6 M.P.H. 3000 AMPS. TOTAL TRACTION CURRENT 2300 RAIL H.P. 4,600 H.P. AT 43 M.P.H. 400 AMPS. MAXIMUM	ENGINE MAIN GENERATOR PERFORMANCE TANK CAPACITY TRAIN HEATING EQU	DIESEL MAKE AND TYPE No. OF CYLS. AND CYCLE MAX. I HR. RATED OUTPUT MAKE AND TYPE MAX. TRACTIVE EFFORT CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT ENGINE FUEL JIPT. 675 VOLTS D.C.	DAVEY PAXMAN 6YJXL 6 CYLS. 4 STROKE 650 H.P. AT ISOO R.P.M. ENGLISH ELECTRIC EE 843 40,000 LB. AT 21:1% ADHESION 18100 LB. AT 6:5 M.P.H. 315 H.P. AVAILABLE BETWEEN 2 & 90 M.P.H 310 GALLONS 400 AMPS. MAXIMUM	
TRACTION MOTORS MINIMUM RADIUS CURVES	MAKE AND TYPE. NUMBER TYPE OF SUSPENSION TYPE OF GEAR DRIVE (HORIZONTAL WITHOUT G/ HORIZONTAL WITH ³ GAUG VERTICAL CONVEX VERTICAL CONCAVE	ENGLISH ELECTRIC EE532A FOUR FULLY SUSPENDED SINGLE REDUCTION AUGE WIDENING 4 CHAINS	SPEED BRAKING	MAX. PERMITTED SERVICE SP FOR LOCO. FOR TRAIN BRAKE FORCE { % OF LOCC IN WORKING	AIR AIR AND VACUUM D WEIGHT	

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B.R. B - B 2500/650 H.P. ELECTRO - DIESEL LOCOMOTIVE CLASS 74

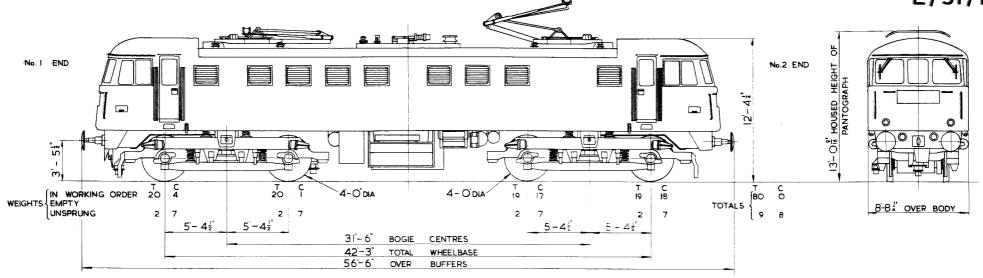
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CLASS 81

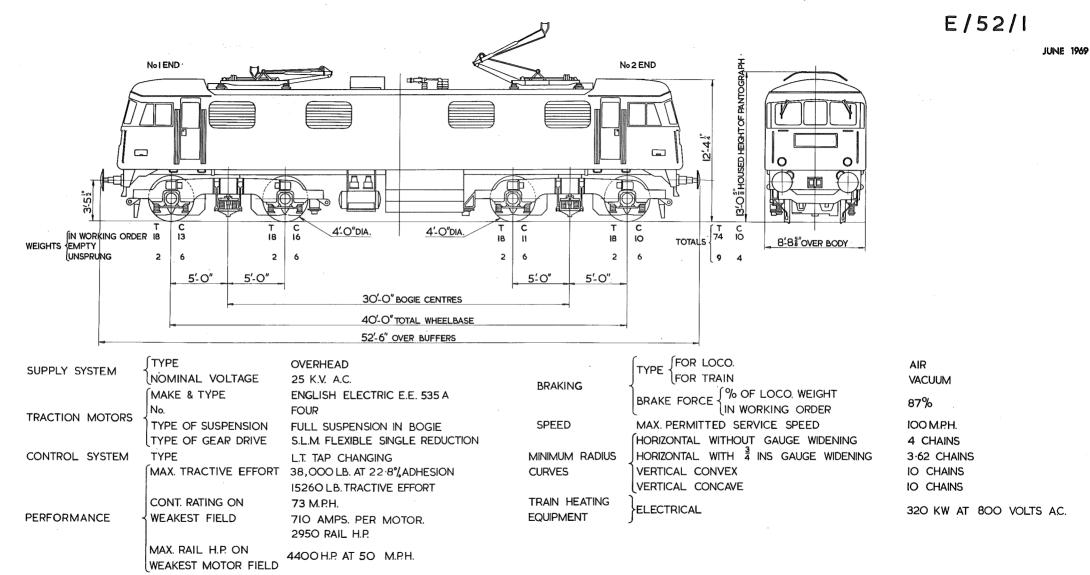
AL.I.A EI (B.T.H./ B.R.C.W.) B-B AC. ELECTRIC LOCOMOTIVE.

SUPPLY SYSTEM	∫TYPE NOMINAL VOLTAGE	OVERHEAD 25 K.V. A.C.		TYPE FOR LOCO	AIR VACUUM
	MAKE & TYPE	A.E.I. TYPE 189 RAILWAY MOTOR FOUR	BRAKING	BRAKE FORCE {% OF LOCO. WEIGHT	85%
TRACTION MOTORS	TYPE OF SUSPENSION	FULL SUSPENSION IN BOGIE ALSTHOM FLEXIBLE,SINGLE REDUCTION	SPEED	MAX. PERMITTED SERVICE SPEED	100 M.P.H. 4 CHAINS
CONTROL SYSTEM	TYPE OF GEAR DRIVE	L.T. TAP CHANGING		HORIZONTAL WITH A IN GAUGE WIDENING	3.65 CHAINS
	MAX. TRACTIVE EFFORT	50,000 LB. AT 28% ADHESION 17,000 LB TRACTIVE EFFORT	CURVES	VERTICAL CONVEX	II CHAINS IO CHAINS
PERFORMANCE	CONT. RATING ON	71 M.P.H. 700 AMPS. PER MOTOR.	TRAIN HEATING EQUIPMENT	FLECTRICAL	320 K.W. AT BOO VOLTS A.C.
AT 22 5K.V	MAX RAIL H.P.ON	3200 RAIL H.P.			
	WEAKEST MOTOR FIELD	► 4800 H.P. AT 44 M.P.H.			



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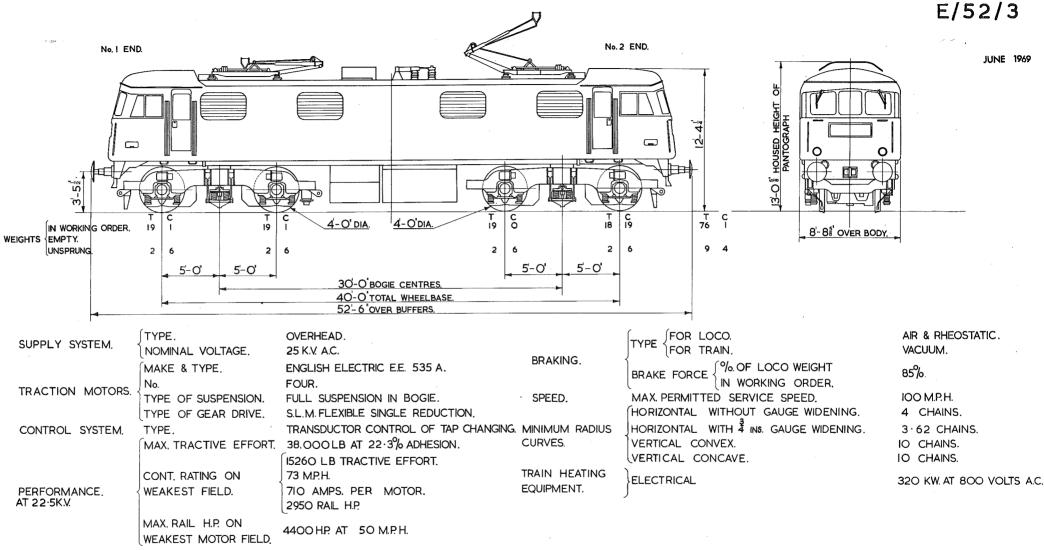
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AL.3 E.E. B-B A.C. ELECTRIC LOCOMOTIVE

CLASS 83

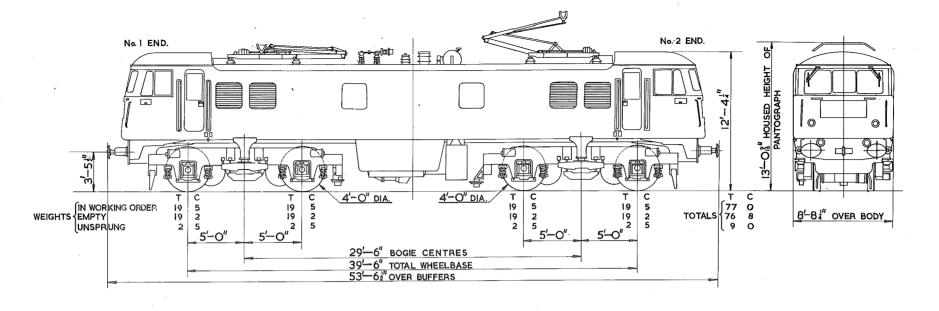
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AL 3/I E.E. B-B A.C. ELECTRIC LOCOMOTIVE.

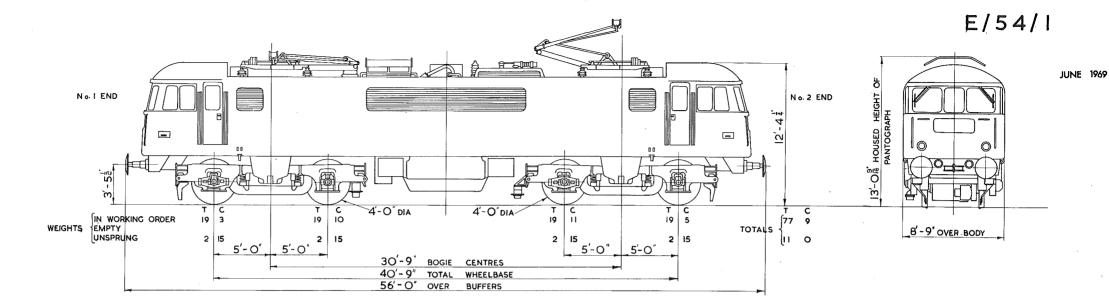
E/53/1

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		∫ずYPE	OVERHEAD		TYPE FOR LOCO.	AIR
SUPP	PLY SYSTEM	NOMINAL VOLTAGE	25 K.V. A.C.	BRAKING	FOR TRAIN	VACUUM
7040		MAKE & TYPE	G.E.C. W.T. 501 FOUR	DRAKING		85%
IRAC	CTION MOTORS	TYPE OF SUSPENSION	FULL SUSPENSION IN BOGIE	SPEED	MAX. PERMITTED SERVICE SPEED	IOO M.P.H.
		TYPE OF GEAR DRIVE	BROWN-BOVERI FLEXIBLE. SINGLE REDUCT		(HORIZONTAL WITHOUT , GAUGE WIDENING	, 4 CHAINS
CONT	TROL SYSTEM	TYPE	H.T. TAP CHANGING	MINIMUM RADIUS	HORIZONTAL WITH ³ 4INS. GAUGE WIDENING	3.6 CHAINS
		MAX. TRACTIVE EFFORT	50000 LB. AT 29.2% ADHESION	CURVES.	VERTICAL CONVEX	I I CHAINS
			(17600 LB. TRACTIVE EFFORT		VERTICAL CONCAVE	22 CHAINS
		CONT. RATING ON	66 M.P.H.	TRAIN HEATING		320KW. AT 800 VOLTS A.C.
	ORMANCE -	WEAKEST FIELD	760 AMPS. PER MOTOR.	EQUIPMENT	JELECTRICAL	
AT 22	AT 22.5 KV.		JIOD RAIL HP.			
		MAX. RAIL H.P. ON				
		WEAKEST MOTOR FIELD	}4900 H.P. AT 44 0 M.P.H.			

A.L.4 G.E.C. B.B. A.C. ELECTRIC LOCOMOTIVE. CLASS 84



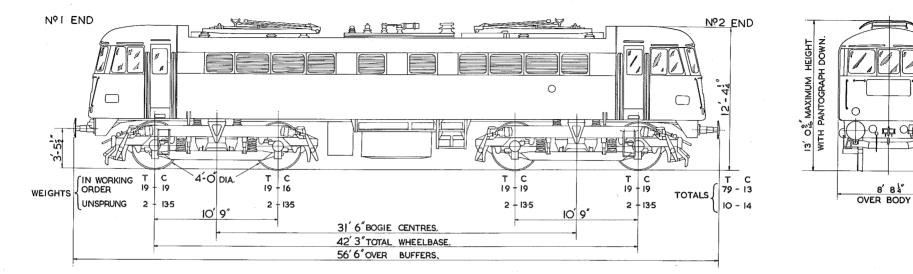
SUPPLY SYSTEM	∫TYPE \NOMINAL VOLTAGE	OVERHEAD 25 K.V. A.C.	PDAKING	TYPE FOR LOCO	AIR VACUUM
TRACTION MOTORS -	MAKE & TYPE	AEI TYPE IB9 RAILWAY MOTOR FOUR	BRAKING SPEED	BRAKE FORCE { % OF LOCO. WEIGHT	82%
	TYPE OF SUSPENSION	FULL SUSPENSION IN BOGIE		MAX. PERMITTED SERVICE SPEED	IOO M.P.H.
	TYPE OF GEAR DRIVE	ALSTHOM FLEXIBLE, SINGLE REDUCTION		HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS
CONTROL SYSTEM	TYPE	H.T. TAP CHANGING	MINIMUM RADIUS	HORIZONTAL WITH 🖥 INS. GAUGE WIDENING	3.63 CHAINS
PERFORMANCE	MAX. TRACTIVE EFFORT	50,000 LB AT 28% ADHESION	CURVES	VERTICAL CONVEX	8 CHAINS
		17000 LB. TRACTIVE EFFORT		VERTICAL CONCAVE	7 CHAINS
	CONT. RATING ON WEAKEST FIELD	73 MP.H. 700 AMPS. PER MOTOR, 3300 Rail H.P.	TRAIN HEATING		320 KW AT 800 VOLTS AC
	MAX. RAIL H.P. ON WEAKEST MOTOR FIELD	5500 H.P. AT 47 M.P.H.			

 $(\langle \cdot \rangle)$

AL.2 A.E.I. (M V/B.P.) B-B A.C. ELECTRIC LOCOMOTIVE. CLASS 82

E/55/I

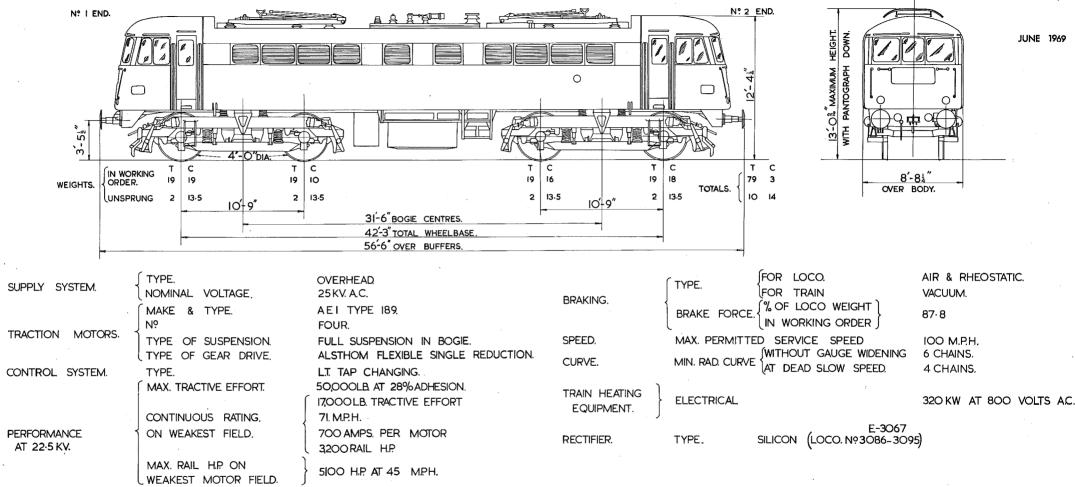
JUNE 1969



SUPPLY SYSTEM	∫ TYPĘ \ NOMINAL VOLTAGE	OVERHEAD 25 k.V. A.C.			FOR LOCO.	AIR & RHEOSTATIC
TRACTION MOTORS	MAKE & TYPE	A.E.I. TYPE 189. FOUR. FULL SUSPENSION IN BOGIE	BRAKING	BRAKE FORCE	{% OF LOCO. WEIGHT } IN WORKING ORDER }	87-2
	TYPE OF SUSPENSION		SPEED	MAX. PERMITTE	SERVICE SPEED	IOO MPH.
CONTROL SYSTEM	(TYPE OF GEAR DRIVE TYPE	ALSTHOM FLEXIBLE. SINGLE REDUCTION. LT. TAP CHANGING.	CURVE	MIN. RAD. CURVE	WITHOUT GAUGE WIDENING AT DEAD SLOW SPEED	6 CHAINS 4 CHAINS
PERFORMANCE AT 22-5 kV.	MAX. TRACTIVE EFFORT	50000 LB. AT 28% ADHESION,	TRAIN HEATING EQUIPMENT			_
	CONTINUOUS RATING ON WEAKEST FIELD	17000LB. TRACTIVE EFFORT			320 KW AT 800 VOLTS	
		700 AMPS. PER MOTOR 3200 RAIL H.P.	RECTIFIERS.	ECTIFIERS. TYPE GERMANIUM (LOCO. N ⁹⁶ E 3056-3066) E 3068-3085		56-3066) 58-3085
	MAX. RAIL H.P. ON WEAKEST MOTOR FIELD	5100 HP AT 45 M.P.H.		2		

AL.5 B.R. B-B A.C. ELECTRIC LOCOMOTIVE.

E/55/2



AL 5/1 B.R. B-B. A.C. ELECTRIC LOCOMOTIVE.

