
British Railways Board

Mechanical & Electrical Engineering Department

FLEET MANAGER
THAMES & CHILTERN
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006

VEHICLE DIAGRAM BOOK No 100

FOR

Main Line Diesel Locomotives

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PREFACE

A complete list of Vehicle Diagram Books is shown below, together with new or revised book reference numbers & the colours of the respective book covers. The existing Locomotive Diagram books, which were previously shown with MT/reference numbers, have now received new covers in accordance with this revised numbering system.

REVISED VEHICLE DIAGRAM BOOK NUMBERS

Vehicle Type	Diagram Book No	Colour of Cover	Vehicle Type	Diagram Book No	Colour of Cover
<u>Locomotives:- Diagram Book Series 100</u>			<u>Freight Vehicles:- Diagram Book Series 300</u>		
Diesel Electric	100		Privately Owned Freight Vehicles	300	White
Main Line Locos	(Previously No MT/25)	Red	Privately Owned International Ferry Vehicle	310	White
Electric	110		BR, Revenue Freight Vehicle	320	Buff
Main Line Locos	(Previously No MT/26)	Green	BR International Ferry Vehicles	330	Buff
Diesel Shunting Locos	120		Foreign Administration Freight Vehicles	340	White
	(Previously No MT/27)	Yellow	BR Service Department Vehicles	350	Buff
<u>Coaching & Multiple Unit Stock:- Diagram Book Series 200</u>					
Loco Hauled Coaches	200	Orange			
Electric Multiple Units	210	Blue			
Diesel Multiple Units (Railcar)	220	Pink			
Diesel Electric Multiple Units (HST)	230	Pink			

DECEMBER 1981

Issued by:-

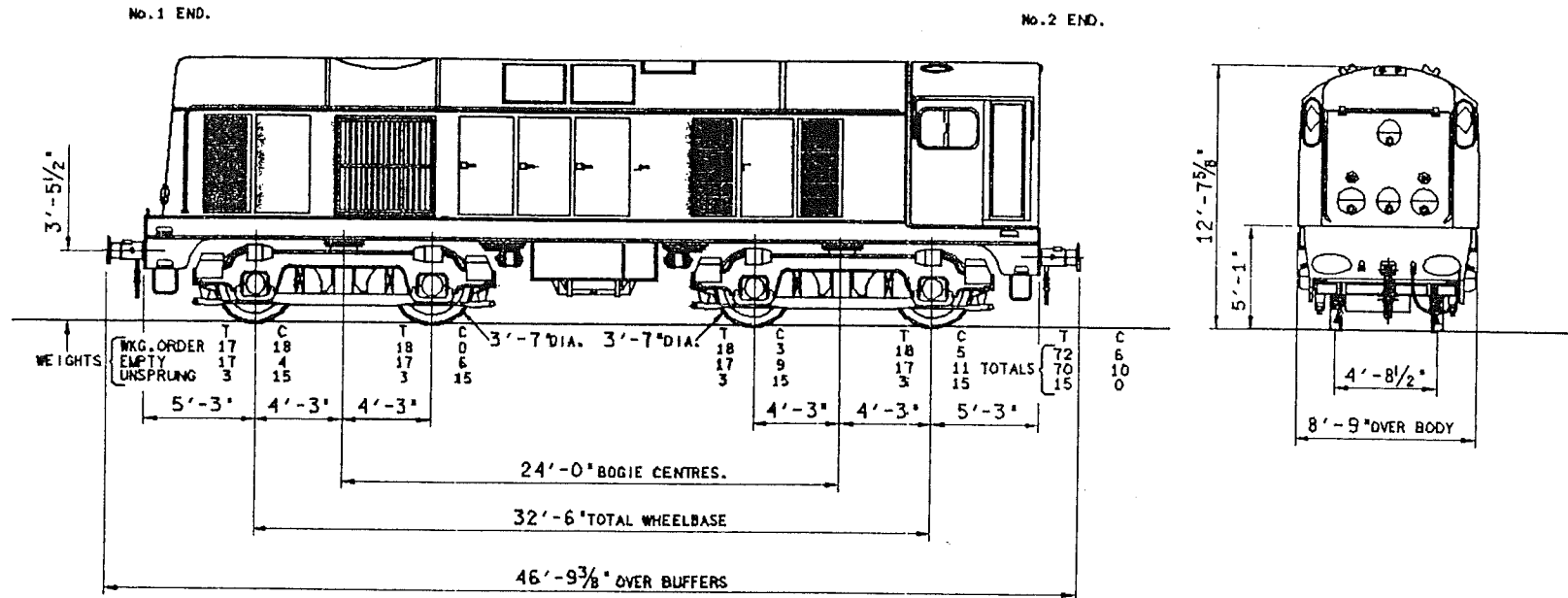
Controlled Copy # 6201/02

Director of Mechanical & Electrical Engineering
Railway Technical Centre
DERBY

1000 H.P. E.E. TYPE 1 B.B. DIESEL ELECTRIC LOCOMOTIVE.

CLASS 20

20-0b X



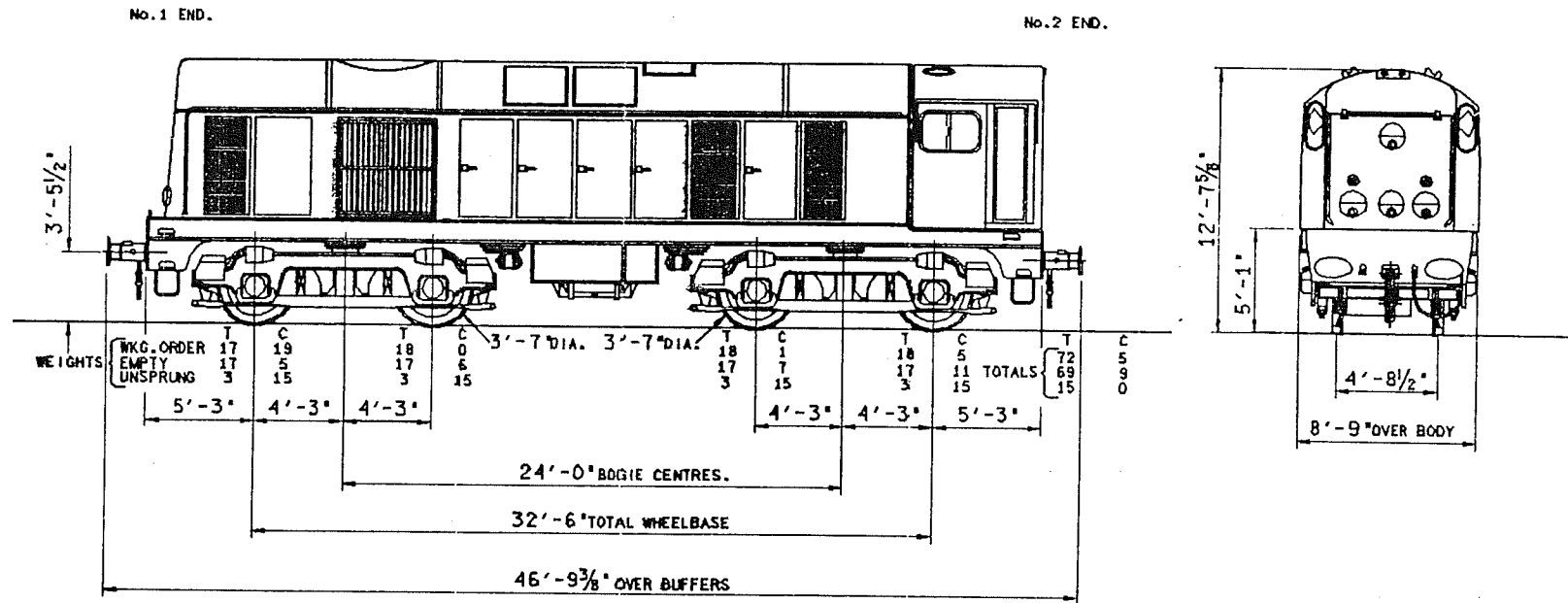
ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 8 S.V.T. MK.2	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO.AIR
	No. OF CYLS. & CYCLE	8 CYL.4 STROKE.		FOR TRAIN	FOR TRAIN	AUTO.AIR & AIR CONT.VAC
MAIN GENERATOR	MAX.CONT.RATED OUTPUT	1000 H.P.AT 850 R.P.M.		BRAKE FORCE	% OF LOCO WEIGHT	93.5%
	MAKE & TYPE	ENGLISH ELECTRIC E.E.819/3C.	MULTIPLE WORKING	IN WORKING ORDER		
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC E.E.526/5D.		COUPLING SYMBOL		BLUE STAR
	No	FOUR.	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING		3.5 CHAINS.
	TYPE OF SUSPENSION	NOSE.	CURVES	HORIZONTAL WITH 3/4INS.GAUGE WIDENING		3.07 CHAINS.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION.		VERTICAL CONVEX		9.75 CHAINS.
PERFORMANCE	MAX TRACTIVE EFFORT	42,000LB.AT 25.9% ADHESION	TRAIN HEATING	VERTICAL CONCAVE		11 CHAINS.
	CONT.TRACTIVE EFFORT	AT 1800 AMPS.MAIN GENERATOR.	EQUIPMENT			NOT FITTED
	AT 1200 AMPS.MAIN GENERATOR	25,000 LB.AT 11 M.P.H.	TANK CAPACITY	ENGINE FUEL		380 GALLONS.
	RAIL H.P.AT CONT.RATING	770 H.P.				
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 5 & 75 M.P.H				
DATA PANEL	WEIGHT	73 TONNES				
	BRAKE FORCE	35 TONNES				
	E.T.H.INDEX	-				
	ROUTE AVAILABILITY	5.				
	MAX.SPEED	60 M.P.H.				

MAY 1987

1000 H.P. E.E. TYPE 1 B.B. DIESEL ELECTRIC LOCOMOTIVE.

CLASS 20

20-0d X



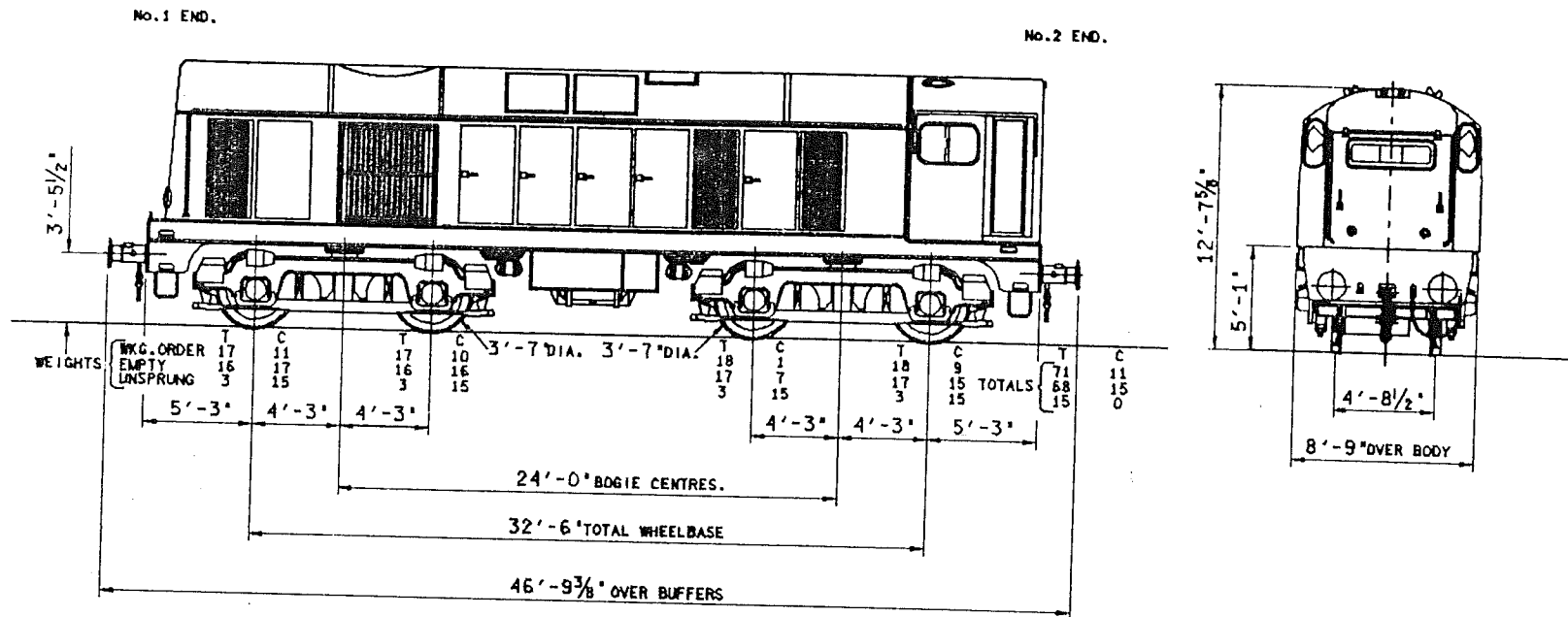
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 8 S.V.T. MK.2 8 CYL. 4 STROKE. 1000 H.P. AT 850 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC
MAIN GENERATOR	MAKE & TYPE	ENGLISH ELECTRIC E.E. 819/3C.	MULTIPLE WORKING	COUPLING SYMBOL	BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	ENGLISH ELECTRIC E.E. 526/8D FOUR. NOSE. SINGLE REDUCTION. 42,000 LB. AT 25.9% ADHESION AT 1800 AMPS. MAIN GENERATOR.	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	93.5%
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT WEIGHT	25,000 LB. AT 11 M.P.H. AT 1200 AMPS. MAIN GENERATOR 770 H.P. AVAILABLE BETWEEN 5 & 75 M.P.H. 73 TONNES	TRAIN HEATING EQUIPMENT		BLUE STAR 3.5 CHAINS. 3.07 CHAINS. 9.75 CHAINS. 11 CHAINS.
DATA PANEL	BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	35 TONNES - 5. 60 M.P.H.	TANK CAPACITY	ENGINE FUEL	NOT FITTED 380 GALLONS.

MAY 1987

1000 H.P. E.E. TYPE 1 B.B. DIESEL ELECTRIC LOCOMOTIVE.

CLASS 20

20-0f X



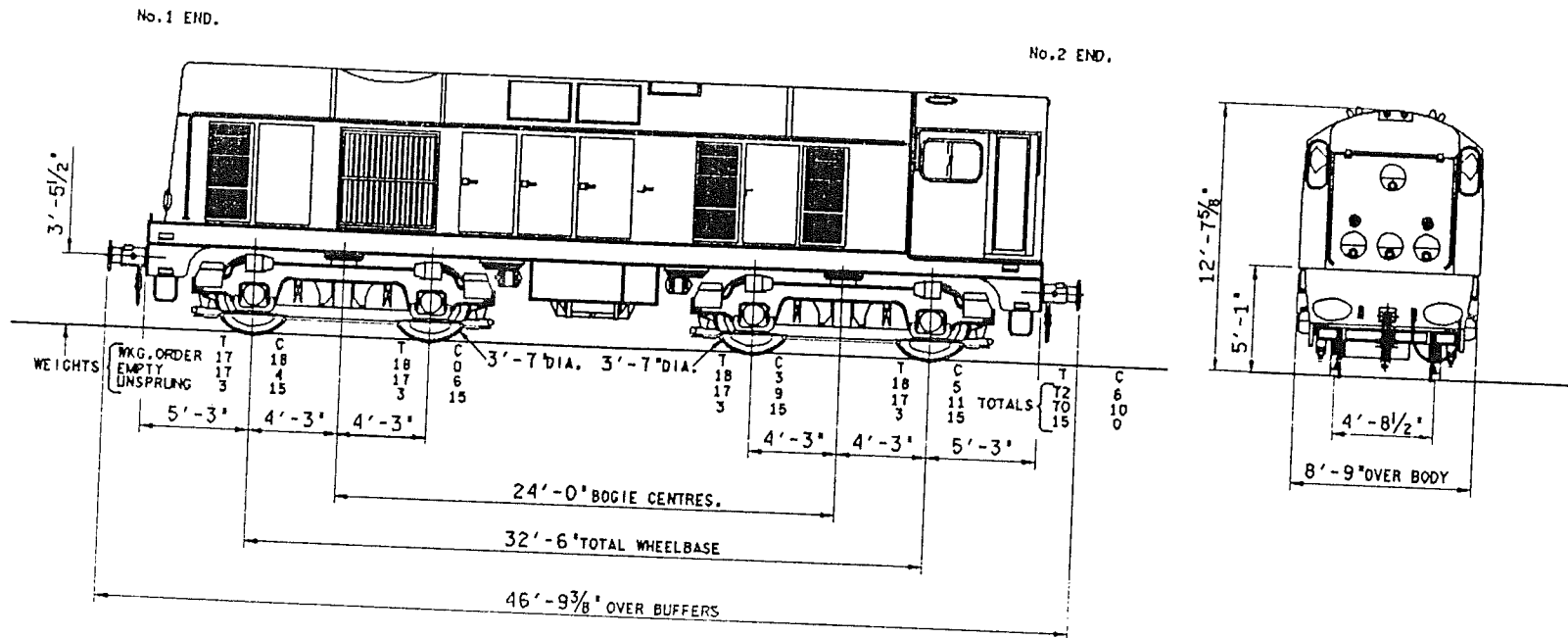
ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 8 S.V.T. MK.2	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO.AIR
MAIN GENERATOR	No. OF CYLS. & CYCLE	8 CYL.4 STROKE.	MULTIPLE WORKING	FOR TRAIN	FOR TRAIN	AUTO.AIR & AIR CONT.VAC.
	MAX.CONT.RATED OUTPUT	1000 H.P.AT 850 R.P.M.		COUPLING SYMBOL	BRAKE FORCE	% OF LOCO WEIGHT
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC E.E.819/3C.	MINIMUM RADIUS	IN WORKING ORDER	HORIZONTAL WITHOUT GAUGE WIDENING	BLUE STAR
	MAKE & TYPE	ENGLISH ELECTRIC E.E.526/8D				CURVES
PERFORMANCE	No	FOUR.	TRAIN HEATING	VERTICAL CONVEX	9.75 CHAINS.	11 CHAINS.
	NOSE.	SINGLE REDUCTION.		EQUIPMENT	VERTICAL CONCAVE	NOT FITTED
	TYPE OF SUSPENSION	42,000LB.AT 26.2% ADHESION	TANK CAPACITY	ENGINE FUEL	380 GALLONS.	
	TYPE OF GEAR DRIVE	AT 1800 AMPS.MAIN GENERATOR.				
MAX TRACTIVE EFFORT	25,000 LB.AT 11 M.P.H.					
DATA PANEL	CONT.TRACTIVE EFFORT	AT 1000 AMPS.MAIN GENERATOR				
	RAIL H.P.AT CONT.RATING	770 H.P.				
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 5 & 75 M.P.H				
	WEIGHT	73 TONNES				
	BRAKE FORCE	35 TONNES				
	E.T.H.INDEX	-				
	ROUTE AVAILABILITY	5.				
	MAX.SPEED	60 M.P.H.				

MAY 1988

1000 H.P. E.E. TYPE 1 B.B. DIESEL ELECTRIC LOCOMOTIVE.

CLASS 20/9

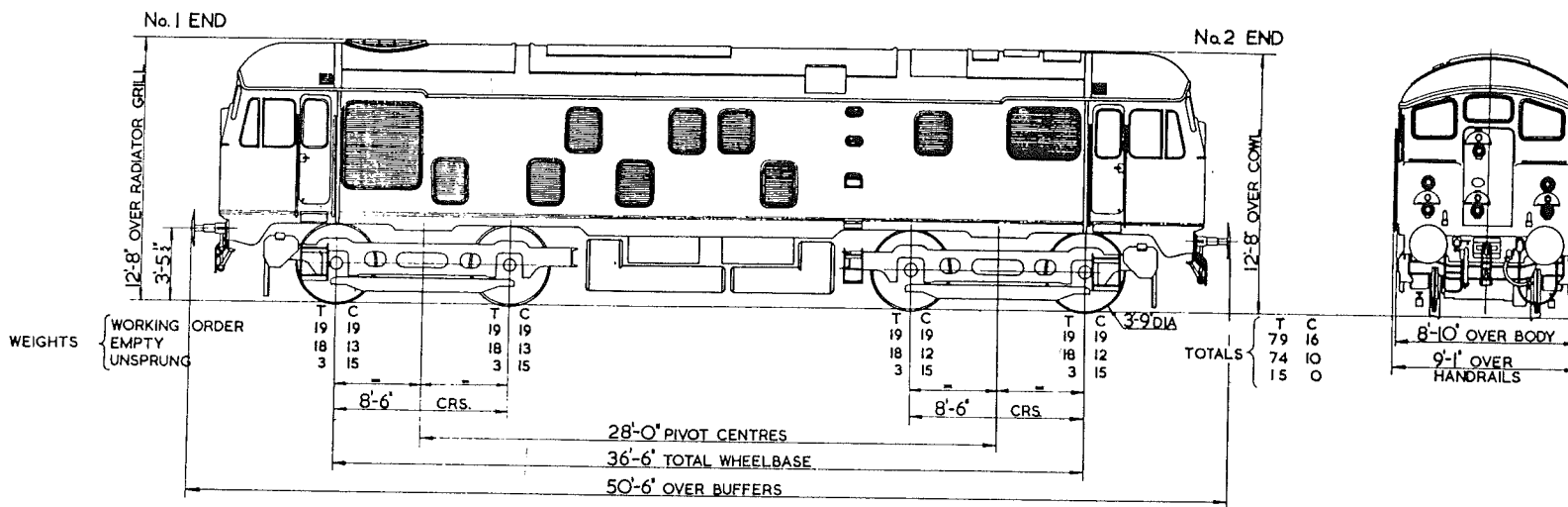
20-9a A



ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 8 S.V.T. MK.2	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO.AIR
MAIN GENERATOR	No. OF CYLS. & CYCLE	8 CYL.4 STROKE.		FOR TRAIN	AUTO.AIR	
	MAX.CONT.RATED OUTPUT	1000 H.P.AT 850 R.P.M.		BRAKE FORCE	% OF LOCO WEIGHT	93.5%
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC E.E.819/30.	MULTIPLE WORKING	IN WORKING ORDER		
	MAKE & TYPE	ENGLISH ELECTRIC E.E.526/5D.		COUPLING SYMBOL		BLUE STAR
	No	FOUR.	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING		3.5 CHAINS.
	TYPE OF SUSPENSION	NOSE.	CURVES	HORIZONTAL WITH INS.GAUGE WIDENING		3.07 CHAINS.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION.		VERTICAL CONVEX		9.75 CHAINS.
	MAX TRACTIVE EFFORT	42,000LB.AT 25.9% ADHESION	TRAIN HEATING	VERTICAL CONCAVE		11 CHAINS.
PERFORMANCE	CONT.TRACTIVE EFFORT	AT 1800 AMPS.MAIN GENERATOR,	EQUIPMENT			NOT FITTED
	RAIL H.P.AT CONT.RATING	25,000 LB.AT 11 M.P.H.	TANK CAPACITY	ENGINE FUEL		380 GALLONS.
	FULL ENGINE OUTPUT	AT 1200 AMPS.MAIN GENERATOR				
	WEIGHT	770 H.P.				
DATA PANEL	BRAKE FORCE	AVAILABLE BETWEEN 5 & 75 M.P.H				
	E.T.H.INDEX	73 TONNES				
	ROUTE AVAILABILITY	35 TONNES				
	MAX.SPEED	5.				
		60 M.P.H.				

MARCH 1989

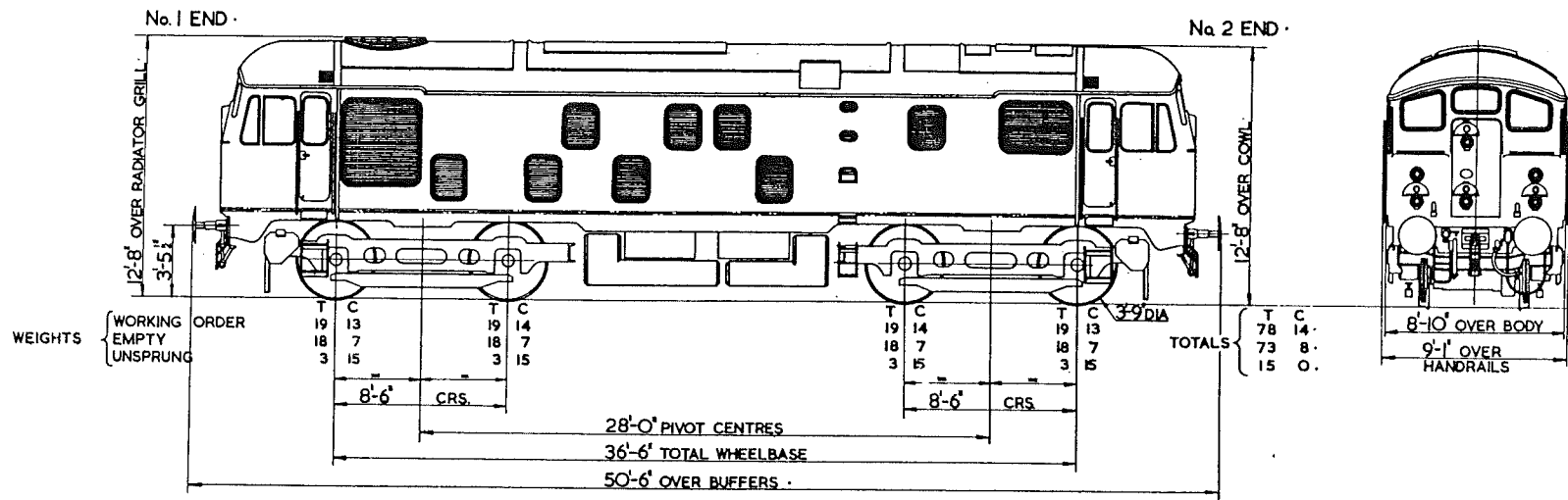
APRIL 1974



ENGINE.	MAKE & TYPE. No OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6 L.D.A. 28. 6 CYL. 4 STROKE. 1160 H.P. AT 750 R.P.M.	BRAKING.	TYPE { FOR LOCO. FOR TRAIN.	AIR. VACUUM
MAIN GENERATOR.	MAKE & TYPE.	BRITISH-THOMSON-HOUSTON. R.T.B. 15656.	SPEED.	BRAKE FORCE. { % OF LOCO. WEIGHT IN WORKING ORDER.	78.7%
TRACTION MOTORS.	MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	BRITISH-THOMSON-HOUSTON. 137.B.Y. FOUR. NOSE. SINGLE REDUCTION. 40000 LBS. AT 22.3% ADHESION.	CURVE.	MAX. PERMITTED SERVICE SPEED MIN. RAD. CURVE { WITHOUT GAUGE WIDENING. AT DEAD SLOW SPEED.	75 M.P.H. 4 1/2 CHAINS.
PERFORMANCE.	CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT RATING. FULL ENGINE OUTPUT.	AT 2,320 AMPS. MAIN GENERATOR. 21,300 LBS. AT 14.8 M.P.H. AT 1400 AMPS. MAIN GENERATOR. 843 H.P. AVAILABLE BETWEEN 7.7 & 69 M.P.H.	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	{ OK 4616A OR OK 4616B. 1750 LBS./HOUR.
			TANK CAPACITIES	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	546 GALLS. 600 GALLS.

**1160 H.P. B.R. TYPE 2 B.B. DIESEL ELECTRIC LOCOMOTIVE.
CLASS 24/0**

24-a V

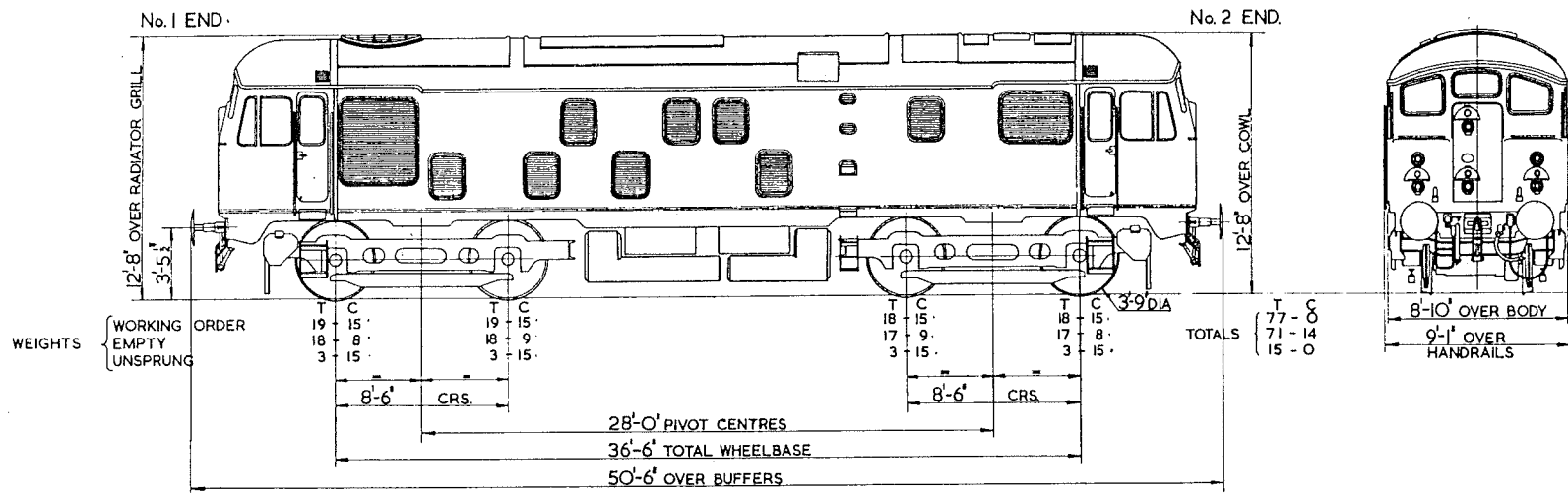


APRIL 1974

ENGINE.	{ MAKE & TYPE. No OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6L.D.A. 28. 6 CYL. 4 STROKE. 1160 HP AT 750 R.P.M.	BRAKING.	{ TYPE { FOR LOCO. FOR TRAIN.	AIR. VACUUM
MAIN GENERATOR.	{ MAKE & TYPE. No.	BRITISH-THOMSON-HOUSTON. R.T.B 15656.	SPEED.	{ BRAKE FORCE. { % OF LOCO. WEIGHT IN WORKING ORDER.	79.8%
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	BRITISH-THOMSON-HOUSTON. 137.BY FOUR. NOSE. SINGLE REDUCTION	CURVE.	{ MAX. PERMITTED SERVICE SPEED MIN. RAD. CURVE { WITHOUT GAUGE WIDENING. AT DEAD SLOW SPEED.	75 M.P.H. 4 1/2 CHAINS.
PERFORMANCE.	{ MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT RATING. FULL ENGINE OUTPUT.	40000 LBS. AT 22.7% ADHESION. AT 2,320 AMPS. MAIN GENERATOR. 21,300 LBS. AT 14.8 M.P.H. AT 1,400 AMPS. MAIN GENERATOR. 843 HP AVAILABLE BETWEEN 7.7 & 69 M.P.H.	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	STONE VAPOR OK. 4616/B. 1750 LBS./HOUR
			TANK CAPACITIES	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	546 GALLS. 600 GALLS.

1160 H.P. B.R. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 24/0

24-BV

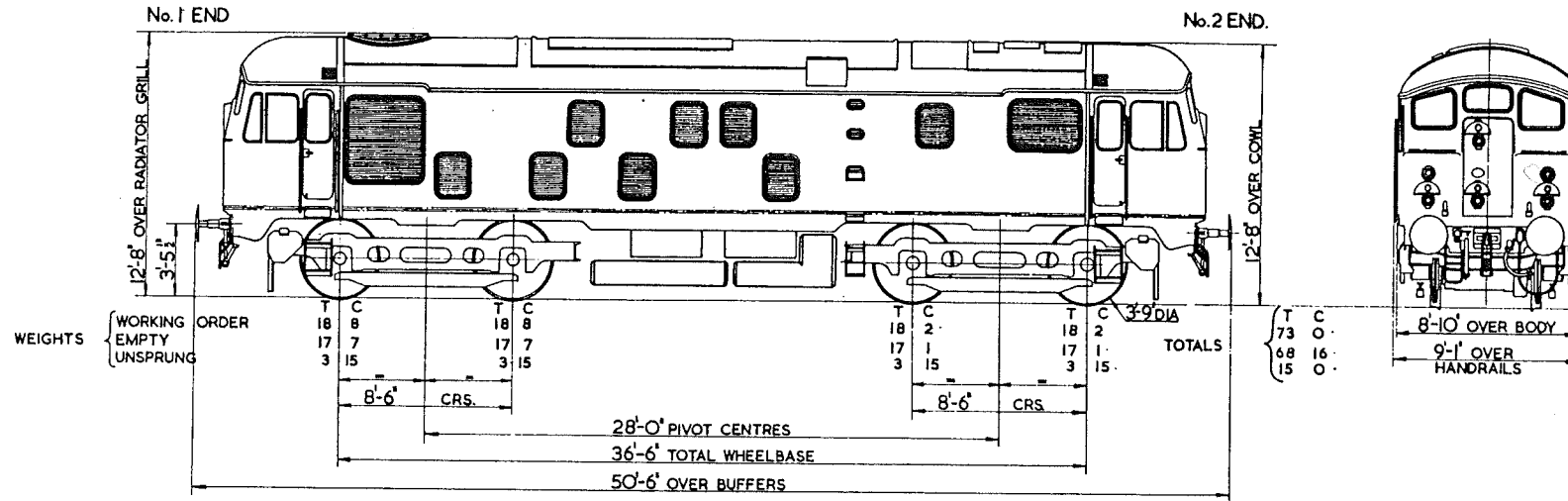


APRIL 1974

ENGINE.	{ MAKE & TYPE. No OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6L.D.A. 28. 6 CYL. 4 STROKE. 1160 HP AT 750 R.P.M.	BRAKING.	{ TYPE { FOR LOCO. FOR TRAIN.	AIR. VACUUM
MAIN GENERATOR.	{ MAKE & TYPE.	BRITISH-THOMSON-HOUSTON. R.T.B 15656.	SPEED.	{ BRAKE FORCE. { % OF LOCO. WEIGHT IN WORKING ORDER.	81.6%
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	BRITISH-THOMSON-HOUSTON. 137.B.Y. FOUR. NOSE. SINGLE REDUCTION	CURVE.	{ MAX. PERMITTED SERVICE SPEED MIN. RAD. CURVE { WITHOUT GAUGE WIDENING. AT DEAD SLOW SPEED.	75 M.P.H. 4 1/2 CHAINS.
PERFORMANCE.	{ MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	40000 LBS. AT 23.2% ADHESION. 21,300 LBS. AT 14.8 M.P.H. AT 1400 AMPS. MAIN GENERATOR. 843 H.P. AVAILABLE BETWEEN 7.7 & 69 M.P.H.	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	STONE VAPOR L4610. 1000 LBS./HOUR
			TANK CAPACITIES	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	546 GALLS. 450 GALLS.

1160 H.P. B.R. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 24/0

24 - c V



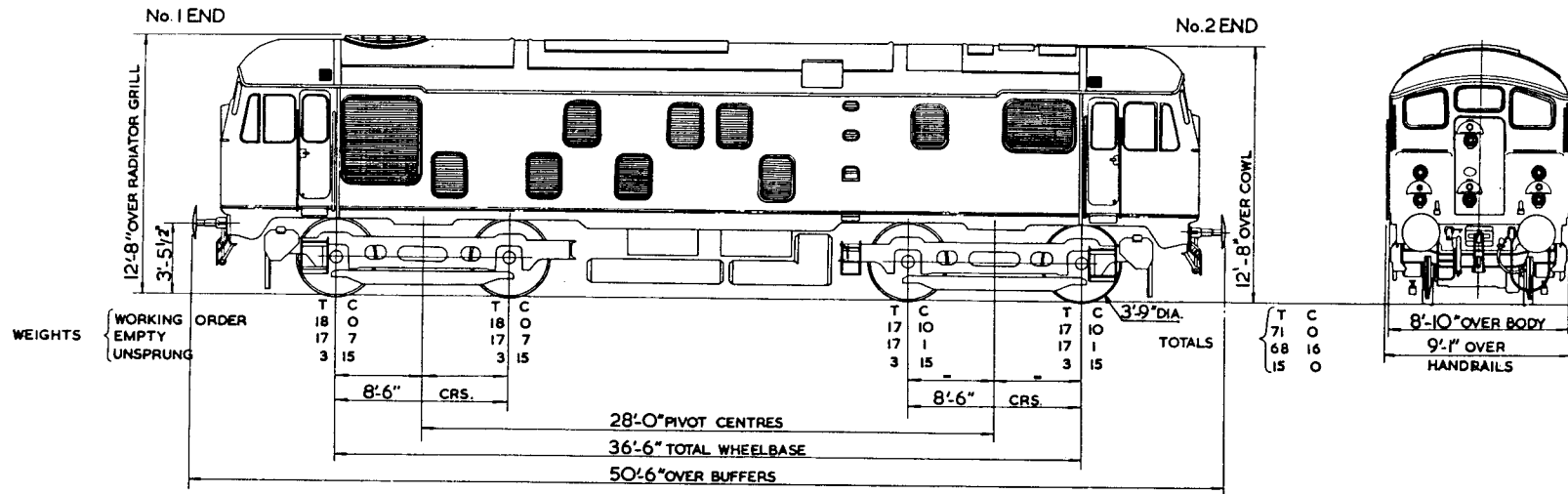
APRIL 1974

ENGINE.	{ MAKE & TYPE. No OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6L.D.A. 28. 6 CYL. 4 STROKE. 1160 H.P. AT 750 R.P.M.	BRAKING.	{ TYPE { FOR LOCO. FOR TRAIN.	AIR. VACUUM
MAIN GENERATOR.	{ MAKE & TYPE. No.	BRITISH-THOMSON-HOUSTON, R.T.B. 15656.	SPEED.	{ BRAKE FORCE. { % OF LOCO. WEIGHT IN WORKING ORDER.	86%
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	BRITISH-THOMSON-HOUSTON. 137.B.Y. FOUR. NOSE. SINGLE REDUCTION	CURVE.	{ MAX. PERMITTED SERVICE SPEED MIN. RAD. CURVE { WITHOUT GAUGE WIDENING. AT DEAD SLOW SPEED.	75 M.P.H. 4 1/2 CHAINS.
PERFORMANCE.	{ MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	40,000 LBS. AT 24.5% ADHESION. AT 2,320 AMPS. MAIN GENERATOR. 21,300 LBS. AT 14.8 M.P.H. AT 1400 AMPS. MAIN GENERATOR. 843 H.P. AVAILABLE BETWEEN 7.7 & 69 M.P.H.	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	STONE VAPOR L 4610 1000 LBS./HOUR
			TANK CAPACITIES	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	500 GALLS 450 GALLS

1160 H.P. B.R. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 24/1

24-1a V

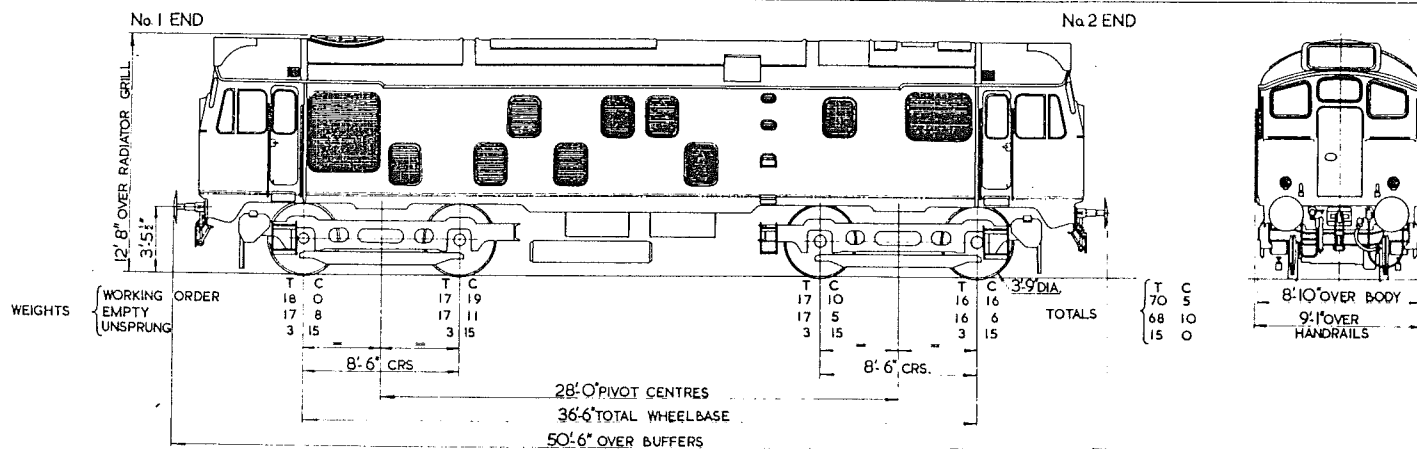
APRIL 1974



ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6 L.D.A. 28. 6 CYL. 4 STROKE. 1160 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO. FOR TRAIN.	AIR VACUUM
MAIN GENERATOR	{ MAKE & TYPE.	BRITISH-THOMSON-HOUSTON R.T.B. 15656.	SPEED.	{ BRAKE FORCE. { % OF LOCO. WEIGHT. IN WORKING ORDER.	88.5%
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX TRACTIVE EFFORT	BRITISH-THOMSON-HOUSTON. 137.B.Y FOUR. NOSE. SINGLE REDUCTION. 40000 LBS. AT 25.2% ADHESION.	MINIMUM RADIUS CURVES.	{ MAX. PERMITTED SERVICE SPEED. HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE.	75 M.P.H. 4.5 CHAINS 3.7 CHAINS 7 CHAINS 7 CHAINS
PERFORMANCE.	{ CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT RATING. FULL ENGINE OUTPUT.	AT 2320 AMPS. MAIN GENERATOR. 21300 LBS. AT 14.8 M.P.H. AT 1400 AMPS. MAIN GENERATOR. 843 H.P AVAILABLE BETWEEN 7.7 & 69 M.P.H.	TRAIN HEATING EQUIPMENT	{ BOILER MAKE & TYPE. TEAMING CAPACITY.	
			TANK CAPACITIES	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	500 GALLS.

**1160 H.P. B.R. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 24/1**

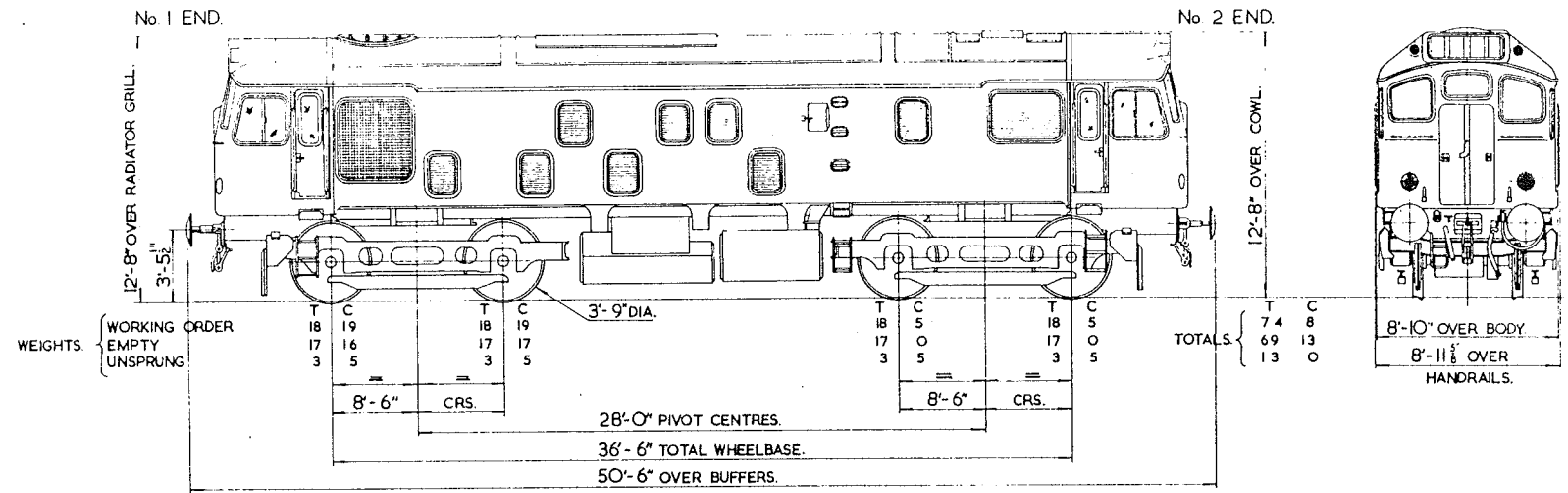
24-1b V



ENGINE.	{ MAKE & TYPE. No. OF CYLS & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6LDA 28-B. 6 CYL. 4 STROKE. 1250 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN	AIR VACUUM.
MAIN GENERATOR.	{ MAKE & TYPE.	A.E.I. RTB 15656.	SPEED.	{ BRAKE FORCE. { % OF LOCO WEIGHT IN WORKING ORDER.	89 4%
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	A.E.I. 137 BX. FOUR. NOSE. SINGLE REDUCTION. 39,000 LBS. AT 24-8% ADHESION.	MINIMUM RADIUS CURVES	{ MAX. PERMITTED SERVICE SPEED HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	90 M.P.H. 4.5 CHAINS 3.7 CHAINS 7 CHAINS 7 CHAINS
PERFORMANCE.	{ CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	20,800 LBS. AT 17.1 M.P.H. AT 1500 AMPS. MAIN GENERATOR 949 H.P. AVAILABLE BETWEEN 9.3 & 77.6 MPH.	TRAIN HEATING EQUIPMENT	{ BOILER MAKE & TYPE STEAMING CAPACITY	
			TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	500 GALLONS

1250 H.P. BR. TYPE 2 BB. DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/O

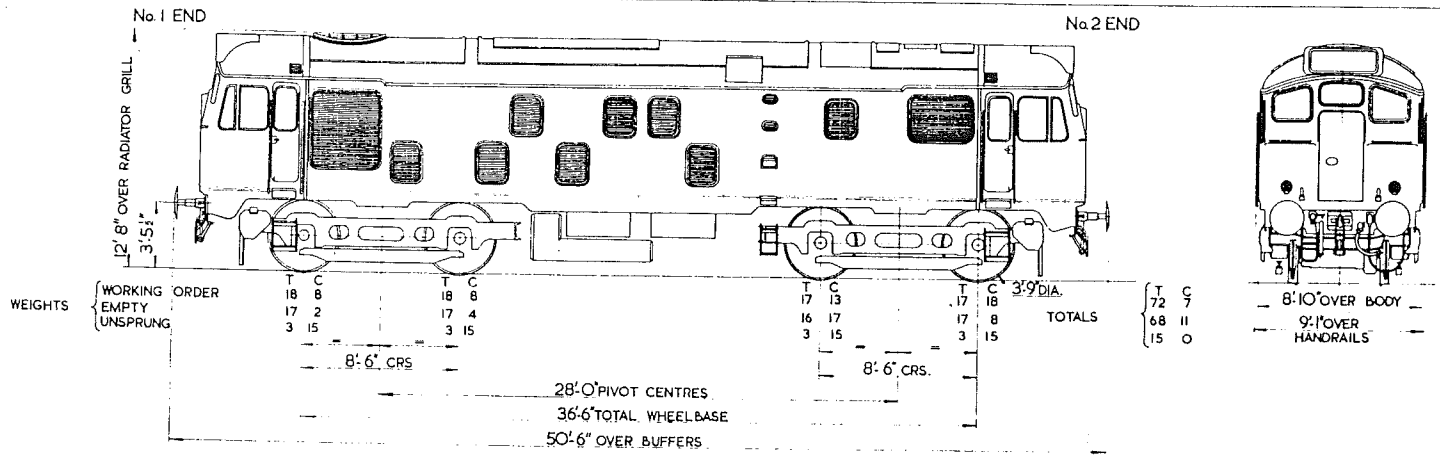
25-a V



ENGINE.	MAKE & TYPE.	SULZER 6 L.D.A. 28 - B.	BRAKING.	TYPE.	FOR LOCO. FOR TRAIN.	STRAIGHT AIR & AUTO. AIR. AUTO. AIR & AIR CONT. VAC.
	No. OF CYLS. & CYCLE.	6 CYL. 4 STROKE.		BRAKE FORCE.	% OF LOCO. WEIGHT. IN WORKING ORDER.	84.4%.
	MAX. CONT. RATED OUTPUT.	1250 H.P. AT 750 R.P.M.	SPEED.	MAX. PERMITTED SERVICE SPEED.		90 M.P.H.
MAIN GENERATOR.	MAKE & TYPE.	A.E.I. R.T.B. 15656.	MINIMUM RADIUS.	HORIZONTAL WITHOUT GAUGE WIDENING.		4.5 CHAINS.
	MAKE & TYPE.	A.E.I. 253 A.Y.	CURVES.	HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.		3.7 CHAINS.
TRACTION MOTORS.	No.	FOUR.	TRAIN HEATING.	VERTICAL CONVEX.		7 CHAINS.
	TYPE OF SUSPENSION.	NOSE.	EQUIPMENT.	VERTICAL CONCAVE.		7 CHAINS.
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION.	TANK CAPACITIES.	BOILER MAKE & TYPE.		STONE VAPOR L4610.
	MAX. TRACTIVE EFFORT.	45,000 LBS. AT 27.0% ADHESION.		STEAMING CAPACITY.		1000LBS/HOURS.
PERFORMANCE.	CONT. TRACTIVE EFFORT.	AT 2,340 AMPS. MAIN GENERATOR.		(ENGINE FUEL)		500 GALLONS.
	RAIL H.P. AT CONT. RATING.	20,800 LBS. AT 17.1 M.P.H.		(BOILER FUEL)		580 GALLONS.
	FULL ENGINE OUTPUT.	AT 1,300 AMPS. MAIN GENERATOR.		(BOILER WATER)		
		949 H.P.				
		AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.				

1250 HP B.R. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
 CLASS 25/1

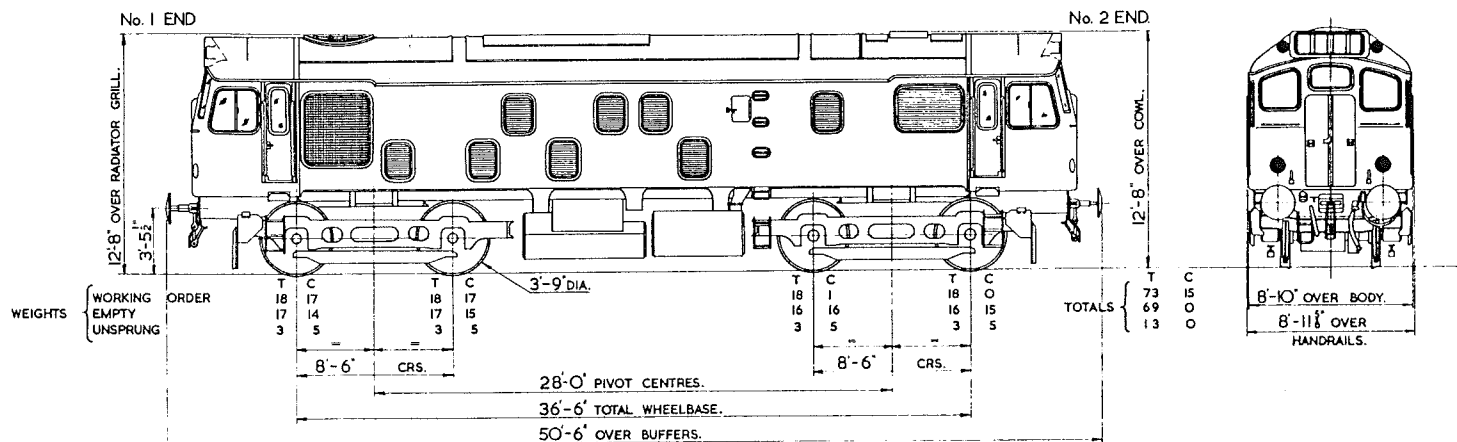
25-1c X



ENGINE.	MAKE & TYPE.	SULZER 6LDA 28-B.	BRAKING	TYPE { FOR LOCO FOR TRAIN	AIR.
	No. OF CYLS & CYCLE	6 CYL. 4 STROKE.		BRAKE FORCE. { % OF LOCO WEIGHT IN WORKING ORDER.	VACUUM.
MAIN GENERATOR.	MAKE & TYPE.	1250 H.P. AT 750 R.P.M.			86.9 %.
	MAKE & TYPE.	A.E.I. R.T.B. 15656.	SPEED	MAX. PERMITTED SERVICE SPEED	90 M.P.H.
TRACTION MOTORS.	No.	A.E.I. 137 B.X.	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS GAUGE WIDENING	4.5 CHAINS
	TYPE OF SUSPENSION	FOUR.	CURVES		VERTICAL CONVEX
	TYPE OF GEAR DRIVE.	NOSE.	TRAIN HEATING	VERTICAL CONCAVE	7 CHAINS
	MAX. TRACTIVE EFFORT.	SINGLE REDUCTION.	EQUIPMENT	STEAMING CAPACITY	
PERFORMANCE.	CONT. TRACTIVE EFFORT.	39000 LBS. AT 24.1% ADHESION.	TANK CAPACITIES	ENGINE FUEL	500 GALLONS
	RAIL H.P. AT CONT. RATING.	AT 2530 AMPS. MAIN GENERATOR		BOILER FUEL	
	FULL ENGINE OUTPUT	20800 LBS AT 17.1 MPH.		BOILER WATER	
		AT 1500 AMPS. MAIN GENERATOR.			
		949 H.P.			
		AVAILABLE BETWEEN 9.3 & 77.6 MPH.			

1250 H.P. B.R. TYPE 2 BB. DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/0

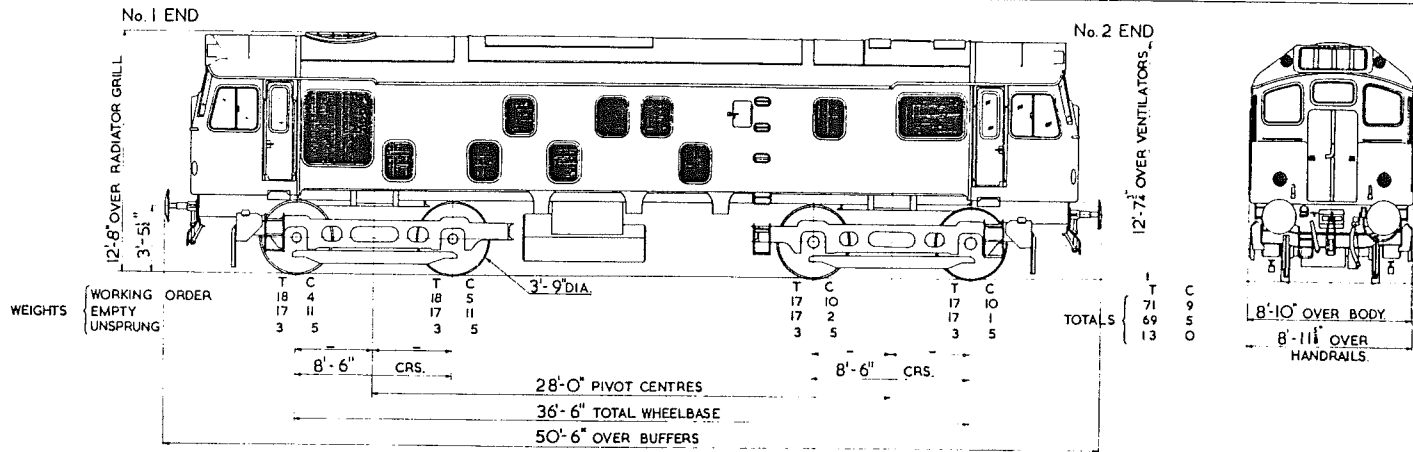
25- b V



ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6 L.D.A. 28-B. 6 CYL. 4 STROKE. 1250 H.P. AT 750 R.P.M.	BRAKING.	{ TYPE. { FOR LOCO. FOR TRAIN. BRAKE FORCE. { % OF LOCO. WEIGHT { IN WORKING ORDER.	AIR. VACUUM.
MAIN GENERATOR.	{ MAKE & TYPE. MAKE & TYPE.	A.E.I. R.T.B. 15656.	SPEED.	{ MAX. PERMITTED SERVICE SPEED. HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	90 MPH. 4.5 CHAINS 3.7 CHAINS 7 CHAINS 7 CHAINS
TRACTION MOTORS.	{ No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	A.E.I. 253 A.Y. FOUR. NOSE. SINGLE REDUCTION.	MINIMUM RADIUS. CURVES	{ BOILER MAKE & TYPE STEAMING CAPACITY { ENGINE FUEL BOILER FUEL BOILER WATER	STONE VAPOR L4610 1000LBS/HOURS 500 GALLONS 580 GALLONS
PERFORMANCE.	{ CONT. TRACTIVE EFFORT. RAIL HP AT CONT. RATING. FULL ENGINE OUTPUT.	45,000 LBS. AT 27.2% ADHESION AT 2,340 AMPS. MAIN GENERATOR. 20,800 LBS. AT 17.1 M.P.H. AT 1,300 AMPS. MAIN GENERATOR. 949 HP AVAILABLE BETWEEN 7.0 & 77.5 MPH.	TRAIN HEATING. EQUIPMENT.	TANK CAPACITIES.	

1250 H.P. B.B. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/1

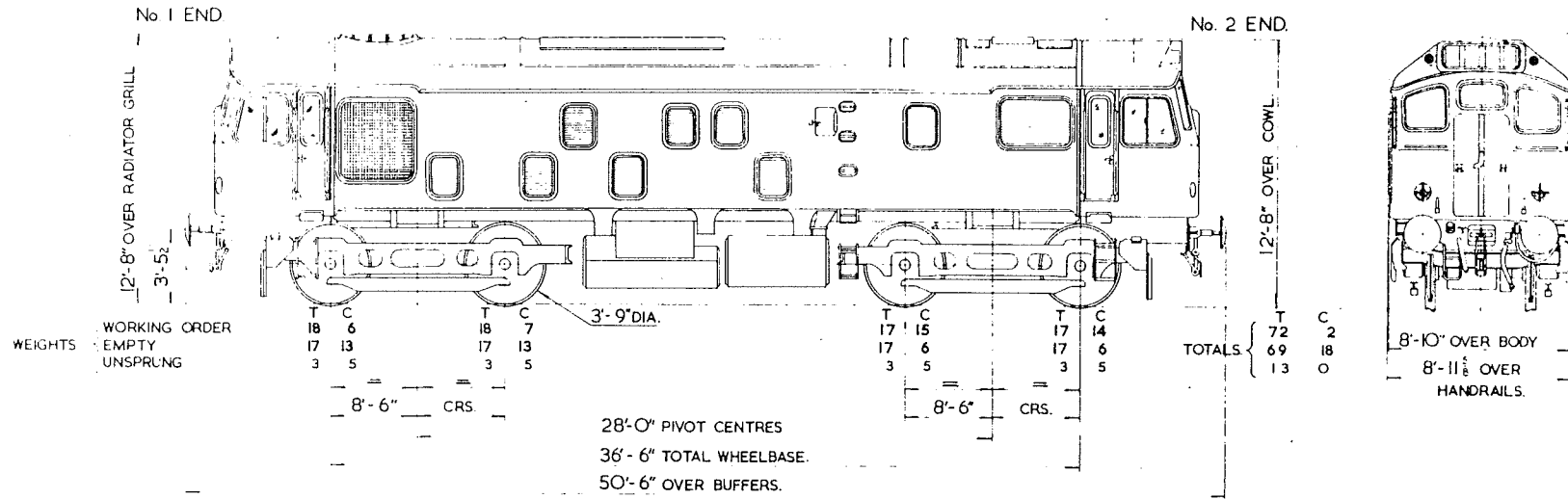
25-1a V



ENGINE.	MAKE & TYPE.	SULZER 6 L.D.A. 28-B.	BRAKING.	TYPE. { FOR LOCO. FOR TRAIN.	AIR.
	No. OF CYLS. & CYCLE.	6 CYL. 4 STROKE.		BRAKE FORCE. { % OF LOCO. WEIGHT IN WORKING ORDER.	VACUUM.
	MAX. CONT. RATED OUTPUT.	1250 H.P. AT 750 R.P.M.			87-9%
MAIN GENERATOR.	MAKE & TYPE.	A.E.I. R.T.B. 15656.	SPEED.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
TRACTION MOTORS.	MAKE & TYPE.	A.E.I. 253 A.Y.	MINIMUM RADIUS.	HORIZONTAL WITHOUT GAUGE WIDENING.	4.5 CHAINS
	No.	FOUR.			CURVES.
	TYPE OF SUSPENSION.	NOSE.	VERTICAL CONVEX.	7 CHAINS	
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION.		VERTICAL CONCAVE.	7 CHAINS
	MAX. TRACTIVE EFFORT.	45,000 LBS. AT 28.1% ADHESION	TRAIN HEATING.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	500 GALLONS
PERFORMANCE.	CONT. TRACTIVE EFFORT.	AT 2,340 AMPS. MAIN GENERATOR. 20,800 LBS. AT 17.1 M.P.H.	EQUIPMENT.		
	RAIL H.P. AT CONT. RATING.	AT 1300 AMPS. MAIN GENERATOR. 949 H.P.	TANK CAPACITIES.	{ ENGINE FUEL BOILER FUEL BOILER WATER.	
	FULL ENGINE OUTPUT.	AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.			

1250 H.P. B.R. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE
CLASS 25/1

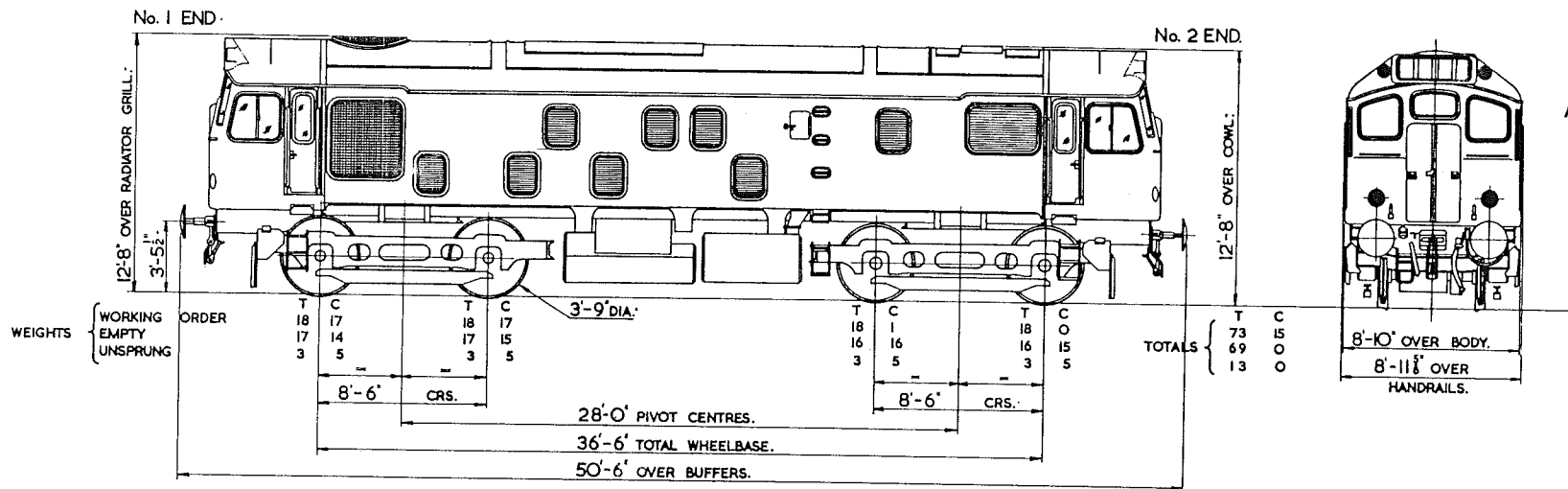
25-1b V



ENGINE	MAKE & TYPE	SULZER 6 L.D.A. 28-B.	BRAKING	TYPE. { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR. AUTO. AIR & AIR CONT. VAC.
	No OF CYLS. & CYCLE	6 CYL. 4 STROKE.		BRAKE FORCE. { % OF LOCO WEIGHT IN WORKING ORDER.	87 2%.
	MAX CONT. RATED OUTPUT	1250 H.P. AT 750 R.P.M.			
MAIN GENERATOR	MAKE & TYPE	A.E.I. R.T.B. 15656.	SPEED.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
	MAKE & TYPE	A.E.I. 253 A.Y.			
TRACTION MOTORS	No	FOUR.	MINIMUM RADIUS.	HORIZONTAL WITHOUT GAUGE WIDENING	4.5 CHAINS.
	TYPE OF SUSPENSION	NOSE.	CURVES.	HORIZONTAL WITH 3/4 INS GAUGE WIDENING.	3.7 CHAINS.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION.		VERTICAL CONVEX	7 CHAINS
	MAX. TRACTIVE EFFORT	45,000 LBS. AT 27.9% ADHESION.	TRAIN HEATING.	VERTICAL CONCAVE	7 CHAINS
		AT 2,340 AMPS. MAIN GENERATOR.	EQUIPMENT.	BOILER MAKE & TYPE.	
PERFORMANCE	CONT. TRACTIVE EFFORT	20,800 LBS. AT 17.1 M.P.H.		STEAMING CAPACITY	
		AT 1,300 AMPS. MAIN GENERATOR.			
	RAIL HP AT CONT. RATING	949 HP	TANK CAPACITIES.	ENGINE FUEL	500 GALLONS.
	FULL ENGINE OUTPUT.	AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.		BOILER FUEL.	
				BOILER WATER.	

1250 HP. B.R. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/1

25-1d X

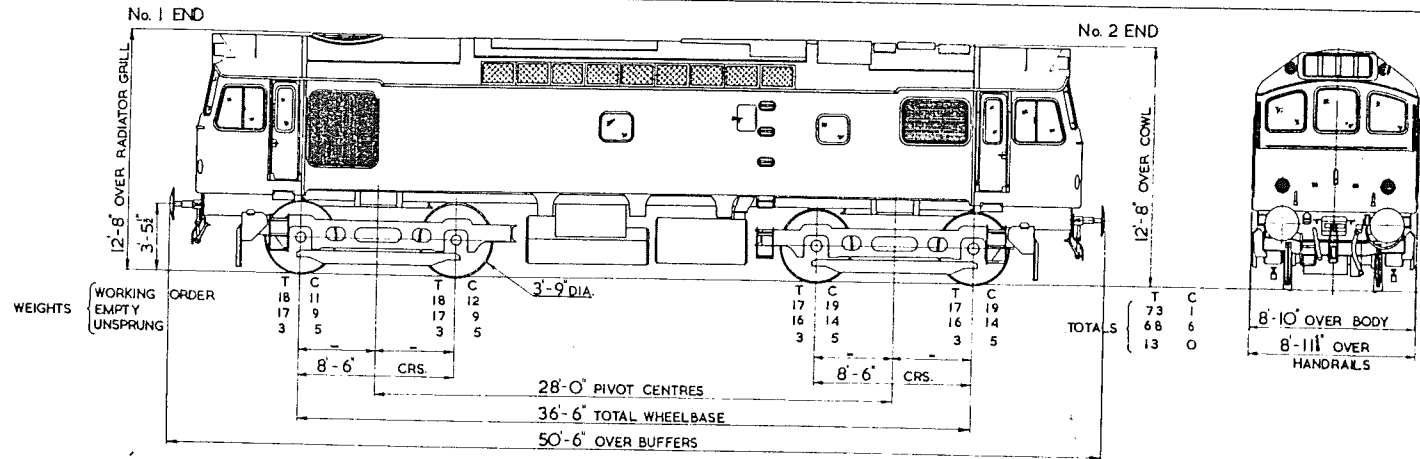


APRIL 1974

ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6 L.D.A. 28-B. 6 CYL. 4 STROKE. 1250 H.P. AT 750 R.P.M.	BRAKING.	{ TYPE. { FOR LOCO. FOR TRAIN. BRAKE FORCE. { % OF LOCO. WEIGHT. IN WORKING ORDER.	AIR. VACUUM.
MAIN GENERATOR.	{ MAKE & TYPE. MAKE & TYPE.	A.E.I. R.T.B. 15656. A.E.I. 253 A.Y.	SPEED.	MAX. PERMITTED SERVICE SPEED.	85 2% 90 MPH.
TRACTION MOTORS.	{ No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	FOUR. NOSE. SINGLE REDUCTION. 45,000 LBS. AT 27.2% ADHESION.	CURVE.	MIN. RAD. CURVE. { WITHOUT GAUGE WIDENING. AT DEAD SLOW SPEED.	4 1/2 CHAINS.
PERFORMANCE.	{ CONT. TRACTIVE EFFORT. RAIL HP AT CONT. RATING. FULL ENGINE OUTPUT.	AT 2340 AMPS. MAIN GENERATOR: 20,800 LBS. AT 17.1 M.P.H. AT 1300 AMPS. MAIN GENERATOR: 949 H.P. AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	STONE VAPOR L4610. 1000 LBS/HOUR.
			TANK CAPACITIES.	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	500 GALLS. 580 GALLS.

1250 H.P. B.B. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/1

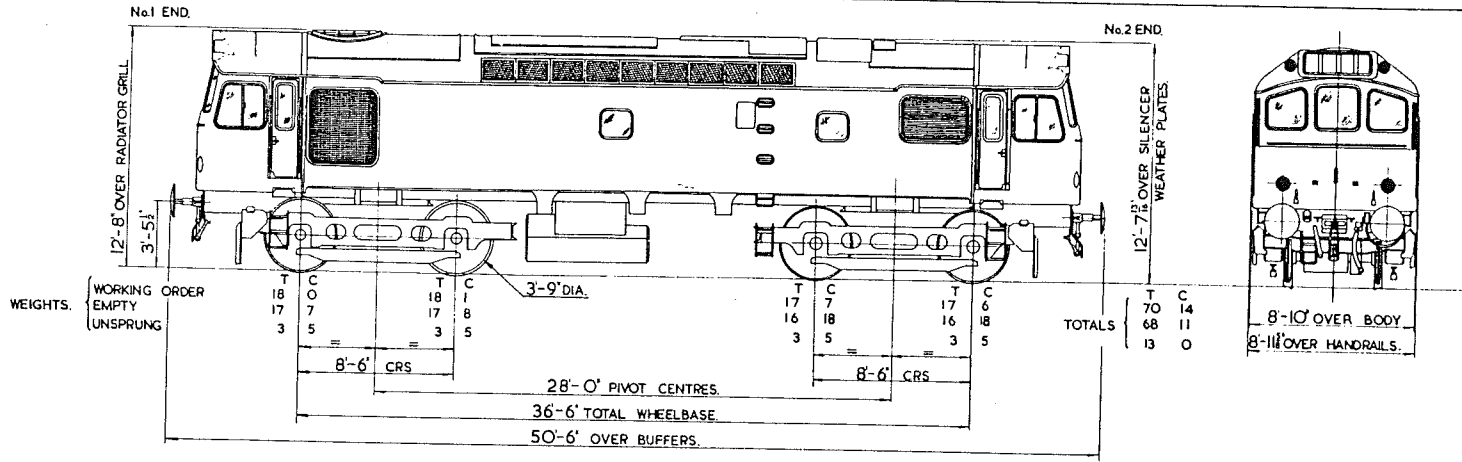
25-1a V



ENGINE.	MAKE & TYPE.	SULZER 6 L.D.A. 28-B	BRAKING	TYPE. { FOR LOCO FOR TRAIN.	AIR. VACUUM.
	No. OF CYLS. & CYCLE.	6 CYL. 4 STROKE.		BRAKE FORCE. { % OF LOCO WEIGHT IN WORKING ORDER.	86%
MAIN GENERATOR.	MAX. CONT. RATED OUTPUT.	1250 H.P. AT 750 R.P.M.	SPEED.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
	MAKE & TYPE.	A.E.I. R.T.B. 15656.	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.	4-5 CHAINS
	MAKE & TYPE.	A.E.I. 253 A.Y.	CURVES	{ VERTICAL CONVEX VERTICAL CONCAVE	3-7 CHAINS 7 CHAINS
TRACTION MOTORS.	No.	FOUR.	TRAIN HEATING	{ BOILER MAKE & TYPE STEAMING CAPACITY.	7 CHAINS
	TYPE OF SUSPENSION.	NOSE	EQUIPMENT.		STONE VAPOR L4610 1000LBS/HOURS
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION	TANK CAPACITIES.	{ ENGINE FUEL BOILER FUEL BOILER WATER	500 GALLONS. 580 GALLONS.
	MAX. TRACTIVE EFFORT.	45,000 LBS AT 27.5% ADHESION.			
PERFORMANCE.	CONT. TRACTIVE EFFORT.	AT 2,340 AMPS. MAIN GENERATOR 20,800 LBS. AT 17.1 M.P.H.			
	RAIL H.P. AT CONT. RATING.	AT 1,300 AMPS. MAIN GENERATOR 949 H.P.			
	FULL ENGINE OUTPUT.	AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.			

1250 H.P. BR. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE
CLASS 25/2

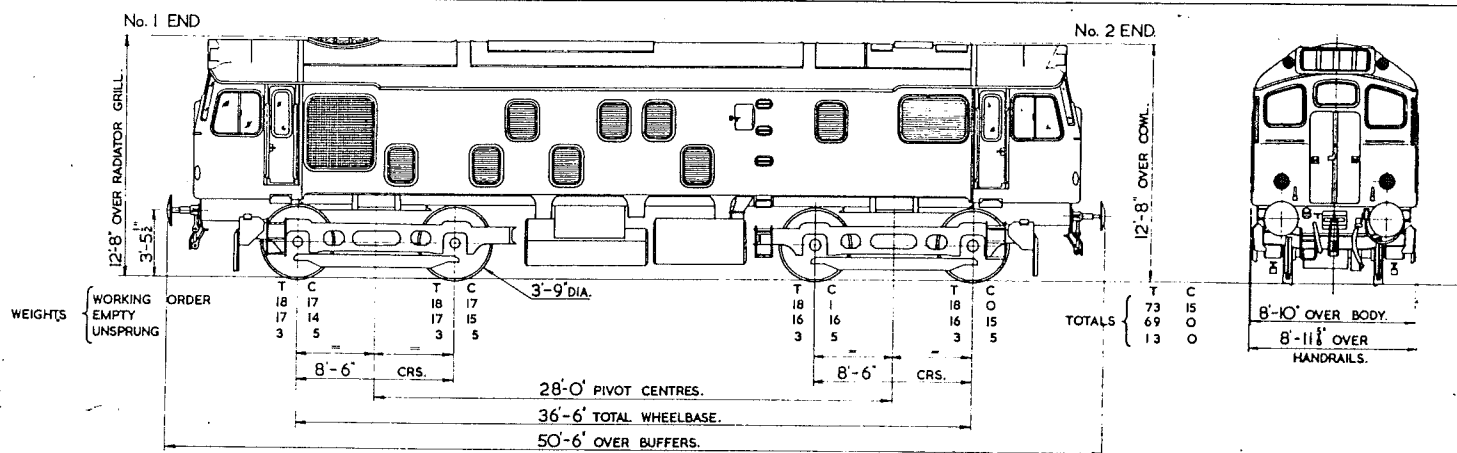
25-2a V



ENGINE	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6 L.D.A. 28-B. 6 CYL. 4 STROKE. 1250 HP AT 750 R.P.M.	BRAKING.	{ TYPE { FOR LOCO. FOR TRAN. BRAKE FORCE. { % OF LOCO WEIGHT IN WORKING ORDER.	AIR VACUUM 88.6%
MAIN GENERATOR.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	A.E.I. RT.B.15656. A.E.I. 253 AY. FOUR. NOSE. SINGLE REDUCTION.	SPEED.	{ MAX. PERMITTED SERVICE SPEED. HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	90 M.P.H. 4.5 CHAINS 3.7 CHAINS 7 CHAINS 7 CHAINS
TRACTION MOTORS.	{ MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT	45,000 L.B. AT 28.7% ADHESION AT 2340 AMPS. MAIN GENERATOR. 20,800 L.B. AT 17.1 M.P.H. AT 1300 AMPS MAIN GENERATOR	MINIMUM RADIUS. CURVES.	{ TRAIN HEATING. EQUIPMENT. STEAMING CAPACITY	
PERFORMANCE.	{ RAIL HP AT CONT. RATING. FULL ENGINE OUTPUT.	949 H.P. AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.	TANK CAPACITIES.	{ ENGINE FUEL BOILER FUEL BOILER WATER	500 GALLONS

**1250 H.P. B.R. TYPE 2. B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/2**

25-2b V

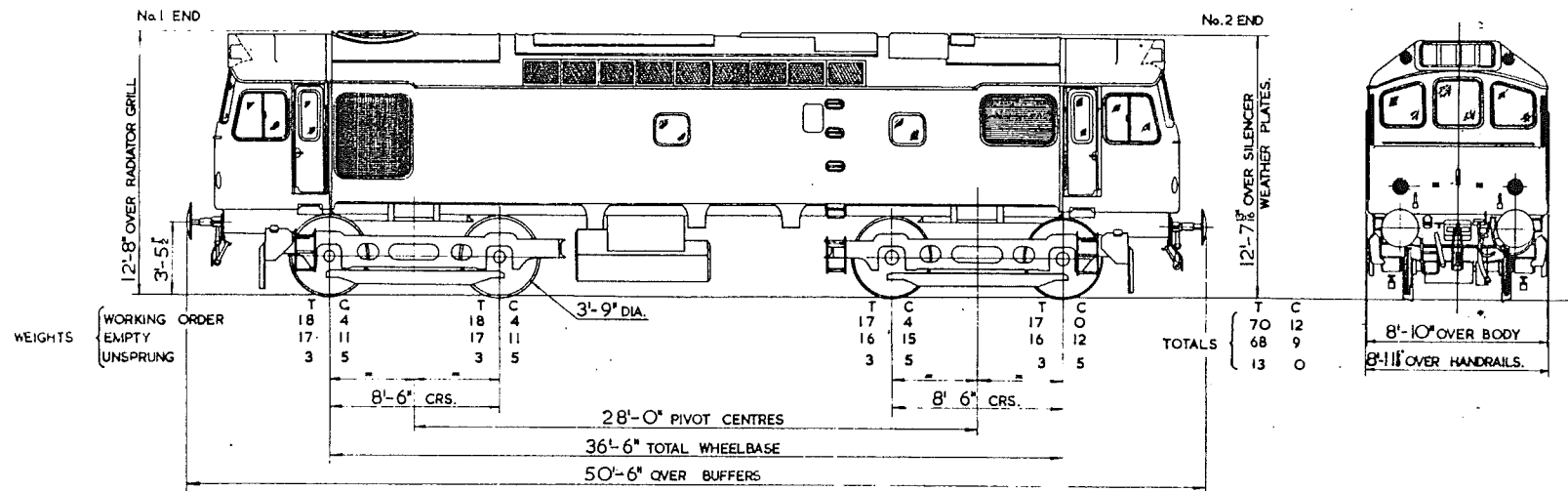


ENGINE.	{ MAKE & TYPE. SULZER 6 L.D.A. 28-B. No. OF CYLS. & CYCLE. 6 CYL. 4 STROKE. MAX. CONT. RATED OUTPUT. 1250 H.P. AT 750 R.P.M.	BRAKING.	{ TYPE. { FOR LOCO. FOR TRAIN. BRAKE FORCE. { % OF LOCO. WEIGHT IN WORKING ORDER.	AIR.	VACUUM.
MAIN GENERATOR.	{ MAKE & TYPE. A.E.I. R.T.B. 15656. MAKE & TYPE. A.E.I. 253 A.Y.	SPEED.	{ MAX. PERMITTED SERVICE SPEED. 90 MPH. HORIZONTAL WITHOUT GAUGE WIDENING 4.5 CHAINS	4.5 CHAINS	3.7 CHAINS
TRACTION MOTORS.	{ No. FOUR. TYPE OF SUSPENSION. NOSE. TYPE OF GEAR DRIVE. SINGLE REDUCTION. MAX. TRACTIVE EFFORT. 45,000 LBS. AT 27.2% ADHESION. AT 2,340 AMPS. MAIN GENERATOR.	MINIMUM RADIUS CURVES.	{ HORIZONTAL WITH 3/4 INS. GAUGE WIDENING 3.7 CHAINS VERTICAL CONVEX 7 CHAINS VERTICAL CONCAVE 7 CHAINS	7 CHAINS	7 CHAINS
PERFORMANCE.	{ CONT. TRACTIVE EFFORT. 20,800 LBS. AT 17.1 M.P.H. RAIL HP AT CONT. RATING. 949 H.P. FULL ENGINE OUTPUT. AVAILABLE BETWEEN 7.0 & 77.5 MPH.	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE L4610 STEAMING CAPACITY 1000 LBS/HOURS	STONE VAPOR	1000 LBS/HOURS
		TANK CAPACITIES	{ ENGINE FUEL } BOILER FUEL } BOILER WATER }	500 GALLONS	580 GALLONS

1250 H.P. B.B. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.

CLASS 25/2

25 - 2d V

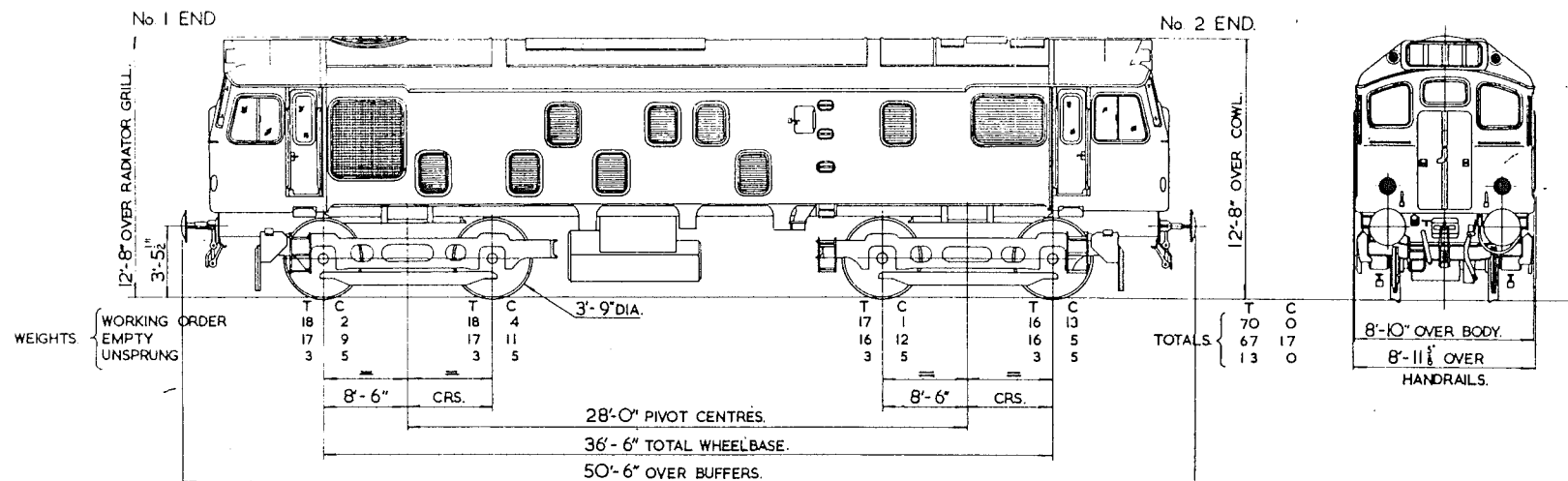


ENGINE	MAKE & TYPE	SULZER 6 L.D.A. 28 B.	BRAKING.	TYPE	FOR LOCO.	STRAIGHT-AIR & AUTO.
	No. OF CYLS. & CYCLE.	6 CYL. 4 STROKE.			FOR TRAIN.	AUTO. AIR & AIR CONT. V.C.
	MAX. CONT. RATED OUTPUT.	1250 H.P. AT 750 R.P.M.		BRAKE FORCE.	% OF LOCO. WEIGHT	89%
MAIN GENERATOR	MAKE & TYPE.	A.E.I. R.T.B. 15656.			IN WORKING ORDER.	
	MAKE & TYPE.	A.E.I. 253 A.Y.	SPEED.		MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
	No.	FOUR.			HORIZONTAL WITHOUT GAUGE WIDENING	4.5 CHAINS.
TRACTION MOTORS	TYPE OF SUSPENSION.	NOSE.			HORIZONTAL WITH 3/4 INS. GAUGE WIDENING	3.7 CHAINS.
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION.			VERTICAL CONVEX	7 CHAINS
	MAX. TRACTIVE EFFORT.	45000 LB. AT 28.5% ADHESION			VERTICAL CONCAVE	7 CHAINS
	AT 2340 AMPS MAIN GENERATOR.		TRAIN HEATING		BOILER MAKE & TYPE.	
PERFORMANCE.	CONT. TRACTIVE EFFORT.	20,800 LB. AT 17.1 M.P.H.	EQUIPMENT		STEAMING CAPACITY	
	AT 1,300 AMPS MAIN GENERATOR				ENGINE FUEL	500 GALLONS
	RAIL H.P. AT CONT. RATING.	9.49 H.P.			BOILER FUEL	
	FULL ENGINE OUTPUT.	AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.	TANK CAPACITIES		BOILER WATER	

1250 H.P. B.R. TYPE 2. B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/2

25-2e X

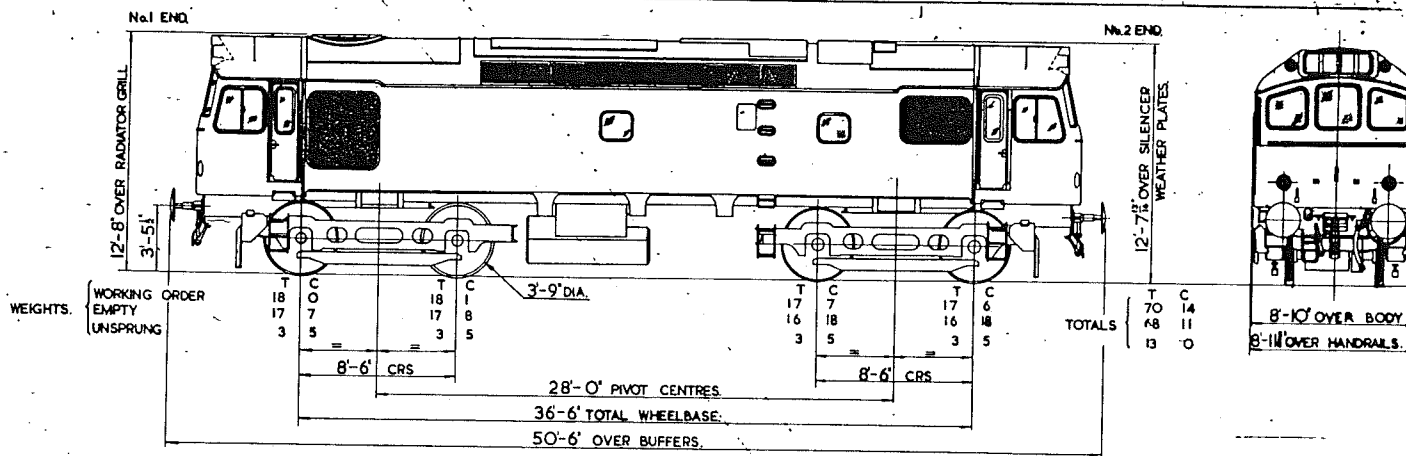
FEBRUARY 1975



ENGINE.	MAKE & TYPE.	SULZER 6 L.D.A. 28 - B.	BRKING.	TYPE. { FOR LOCO. FOR TRAIN.	STRAIGHT AIR & AUTO AIR AUTO AIR & AIR CONT. VAR.
	No. OF CYLS. & CYCLE.	6 CYL. 4 STROKE.		BRAKE FORCE. { % OF LOCO WEIGHT. IN WORKING ORDER.	90-2%.
MAIN GENERATOR.	MAX. CONT. RATED OUTPUT.	1250 H.P. AT 750 R.P.M.	SPEED.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
	MAKE & TYPE.	A.E.I. R.T.B. 15656.	MINIMUM RADIUS.	HORIZONTAL WITHOUT GAUGE WIDENING.	4.5 CHAINS.
TRACTION MOTORS.	MAKE & TYPE.	A.E.I. 253 A.Y.	CURVES.	HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.	3.7 CHAINS.
	No.	FOUR.	TRAIN HEATING.	VERTICAL CONVEX	7 CHAINS.
	TYPE OF SUSPENSION.	NOSE.	EQUIPMENT.	VERTICAL CONCAVE.	7 CHAINS.
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION.	TANK CAPACITIES.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	
PERFORMANCE.	MAX. TRACTIVE EFFORT.	45,000 LBS. AT 28.7% ADHESION.		ENGINE FUEL	500 GALLONS.
	CONT. TRACTIVE EFFORT.	AT 2340 AMPS. MAIN GENERATOR.		BOILER FUEL	
	RAIL HP AT CONT. RATING.	20,800 LBS. AT 17.1 M.P.H.		BOILER WATER.	
	FULL ENGINE OUTPUT.	AT 1300 AMPS. MAIN GENERATOR.			
		949 H.P.			
		AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.			

1250 HP B.R. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/2.

25-21 X

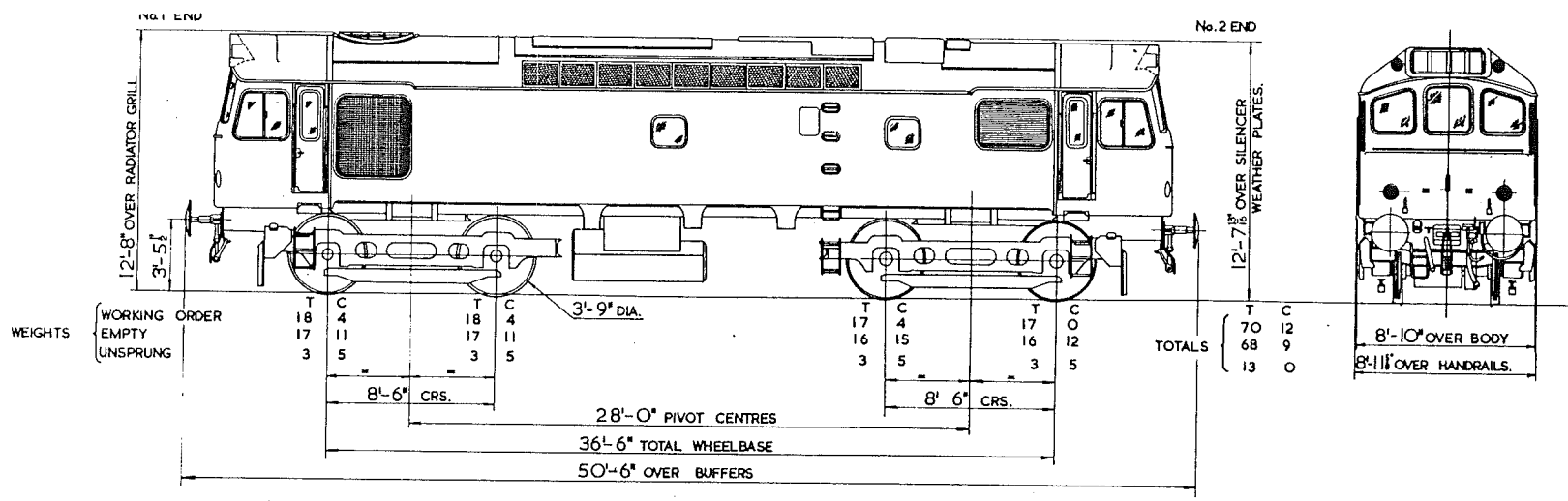


ENGINE	MAKE & TYPE.	SULZER 6 L.D.A. 28-B.	BRAKING.	TYPE { FOR LOCO. FOR TRAN.	AIR VACUUM
	No. OF CYLS. & CYCLE.	6 CYL. 4 STROKE.		BRAKE FORCE. { % OF LOCO. WEIGHT. IN WORKING ORDER.	88.6%
MAIN GENERATOR.	MAX. CONT. RATED OUTPUT.	1250 HP AT 750 R.P.M.			
	MAKE & TYPE.	A.E.I. R.T.B. 15656.	SPEED.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
TRACTION MOTORS.	MAKE & TYPE.	A.E.I. 253 A.Y.		HORIZONTAL WITHOUT GAUGE WIDENING.	4.5 CHAINS
	No.	FOUR.	MINIMUM RADIUS CURVES.	HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.	3.7 CHAINS
	TYPE OF SUSPENSION.	NOSE.		VERTICAL CONVEX.	7 CHAINS
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION.	TRAIN HEATING EQUIPMENT.	VERTICAL CONCAVE.	7 CHAINS
	MAX. TRACTIVE EFFORT.	45,000 L.B. AT 28.7% ADHESION		BOILER MAKE & TYPE.	
PERFORMANCE.	CONT. TRACTIVE EFFORT.	AT 2340 AMPS. MAIN GENERATOR.	TANK CAPACITIES.	STEAMING CAPACITY.	
		20,800 L.B. AT 17.1 M.P.H.		ENGINE FUEL.	500 GALLONS
	RAIL H.P. AT CONT. RATING.	AT 1300 AMPS MAIN GENERATOR		BOILER FUEL.	
	FULL ENGINE OUTPUT.	949 H.P.		BOILER WATER.	
		AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.			

1250 H.P. B.R. TYPE 2. B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/3

25 - 3a V

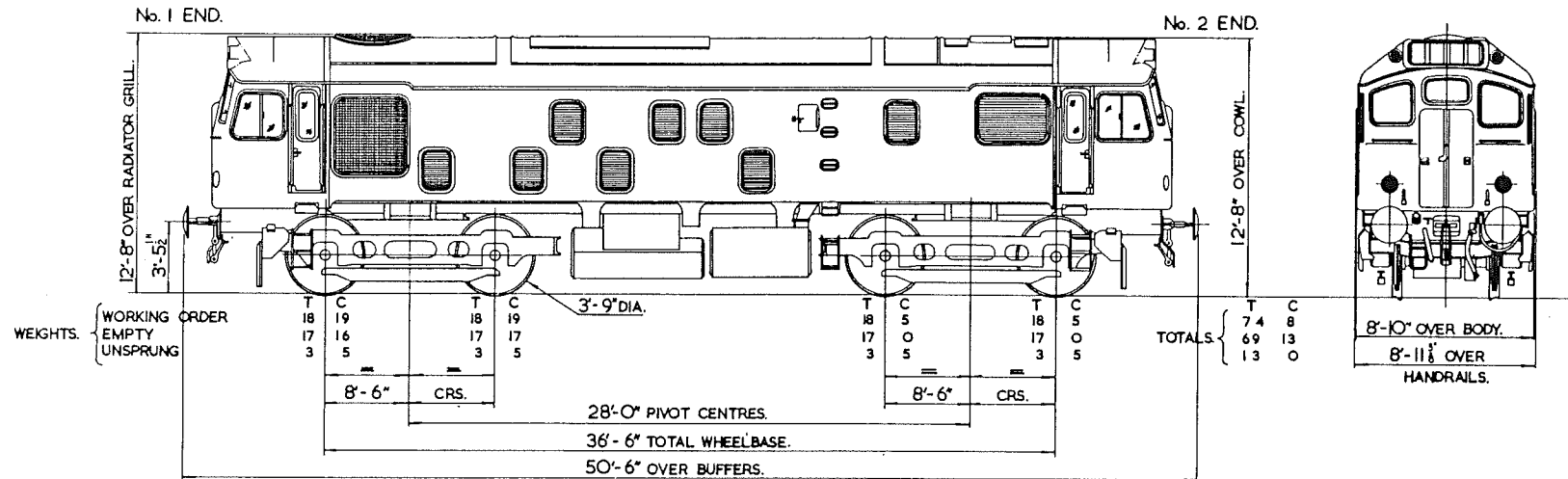
APRIL 1974



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6 L.D.A. 28 B. 6 CYL. 4 STROKE. 1250 H.P. AT 750 R.P.M.	BRAKING.	{ TYPE { FOR LOCO. FOR TRAIN.	STRAIGHT-AIR & AUTO. AIR. AUTO. AIR & AIR CONT. VAC.
MAIN GENERATOR	{ MAKE & TYPE.	A.E.I. R.T.B. 15656.	SPEED.	{ BRAKE FORCE. { % OF LOCO. WEIGHT IN WORKING ORDER.	89%
TRACTION MOTORS	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	A.E.I. 253 A.Y. FOUR. NOSE. SINGLE REDUCTION.	MINIMUM RADIUS CURVES	{ MAX. PERMITTED SERVICE SPEED. HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	90 M.P.H. 4.5 CHAINS. 3.7 CHAINS. 7 CHAINS 7 CHAINS
PERFORMANCE.	{ MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT, RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	45,000 LB. AT 28.5% ADHESION AT 2,340 AMPS MAIN GENERATOR. 20,800 LB. AT 17.1 M.P.H. AT 1,300 AMPS MAIN GENERATOR 949 H.P. AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.	TRAIN HEATING EQUIPMENT	{ BOILER MAKE & TYPE. STEAMING CAPACITY	
			TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL. BOILER WATER	500 GALLONS

1250 H.P. B.R. TYPE 2. B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/3

25-3b X

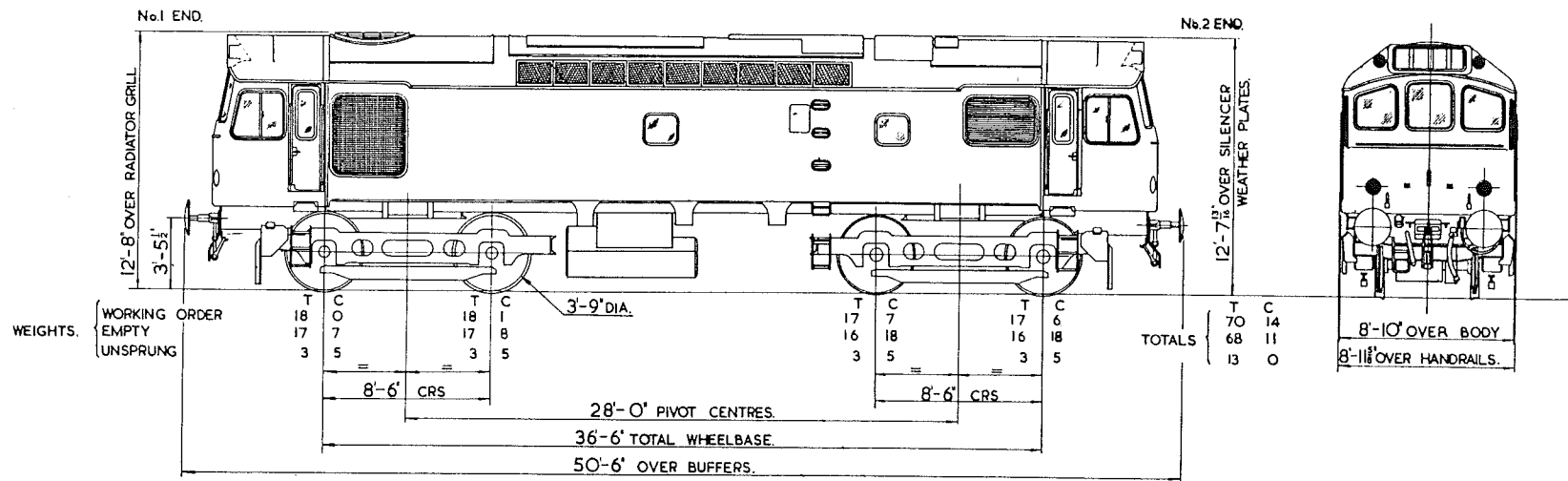


APRIL 1974

ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6 L.D.A. 28-B. 6 CYL. 4 STROKE. 1250 HP AT 750 R.P.M.	BRAKING.	{ TYPE. { FOR LOCO. FOR TRAIN. BRAKE FORCE. { % OF LOCO. WEIGHT. IN WORKING ORDER.	STRAIGHT AIR & AUTO. AIR. AUTO. AIR & AIR CONT. VAC. 84.4%.
MAIN GENERATOR.	{ MAKE & TYPE. MAKE & TYPE.	A.E.I. R.T.B. 15656. A.E.I. 253 A.Y.	SPEED.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
TRACTION MOTORS.	{ No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	FOUR. NOSE. SINGLE REDUCTION. 45,000 LBS. AT 27.0% ADHESION.	MINIMUM RADIUS. CURVES.	{ HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4" INS. GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE.	4.5 CHAINS. 3.7 CHAINS. 7 CHAINS. 7 CHAINS.
PERFORMANCE.	{ CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	AT 2340 AMPS. MAIN GENERATOR. 20,800 LBS. AT 17.1 M.P.H. AT 1300 AMPS. MAIN GENERATOR. 949 H.P. AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.	TRAIN HEATING. EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	STONE VAPOR L4610. 1600 LBS/HOURS.
			TANK CAPACITIES.	{ ENGINE FUEL BOILER FUEL BOILER WATER.	500 GALLONS. 580 GALLONS.

1250 HP B.R. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/2.

25-2c X



APRIL 1974

ENGINE	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 6 L.D.A. 28-B. 6 CYL. 4 STROKE. 1250 HP AT 750 R.P.M.	BRAKING.	{ TYPE. { FOR LOCO. FOR TRAIN.	AIR VACUUM
MAIN GENERATOR.	MAKE & TYPE.	A.E.I. RT.B. 15656.	SPEED.	BRAKE FORCE. { % OF LOCO WEIGHT. IN WORKING ORDER.	88-6%
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	A.E.I. 253 AY. FOUR. NOSE. SINGLE REDUCTION.	CURVE.	MAX. PERMITTED SERVICE SPEED. MIN. RAD CURVE. { WITHOUT GAUGE WIDENING. AT DEAD SLOW SPEED	90 M.P.H. 41 CHAINS
PERFORMANCE.	MAX. TRACTIVE EFFORT.	45,000 LB. AT 28.7% ADHESION	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	500 GALLS.
	CONT. TRACTIVE EFFORT.	AT 2340 AMPS: MAIN GENERATOR. 20,800 LB. AT 17.1 M.P.H.	TANK CAPACITIES.	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	
	RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	AT 1300 AMPS MAIN GENERATOR 949 H.P. AVAILABLE BETWEEN 7.0 & 77.5 M.P.H.			

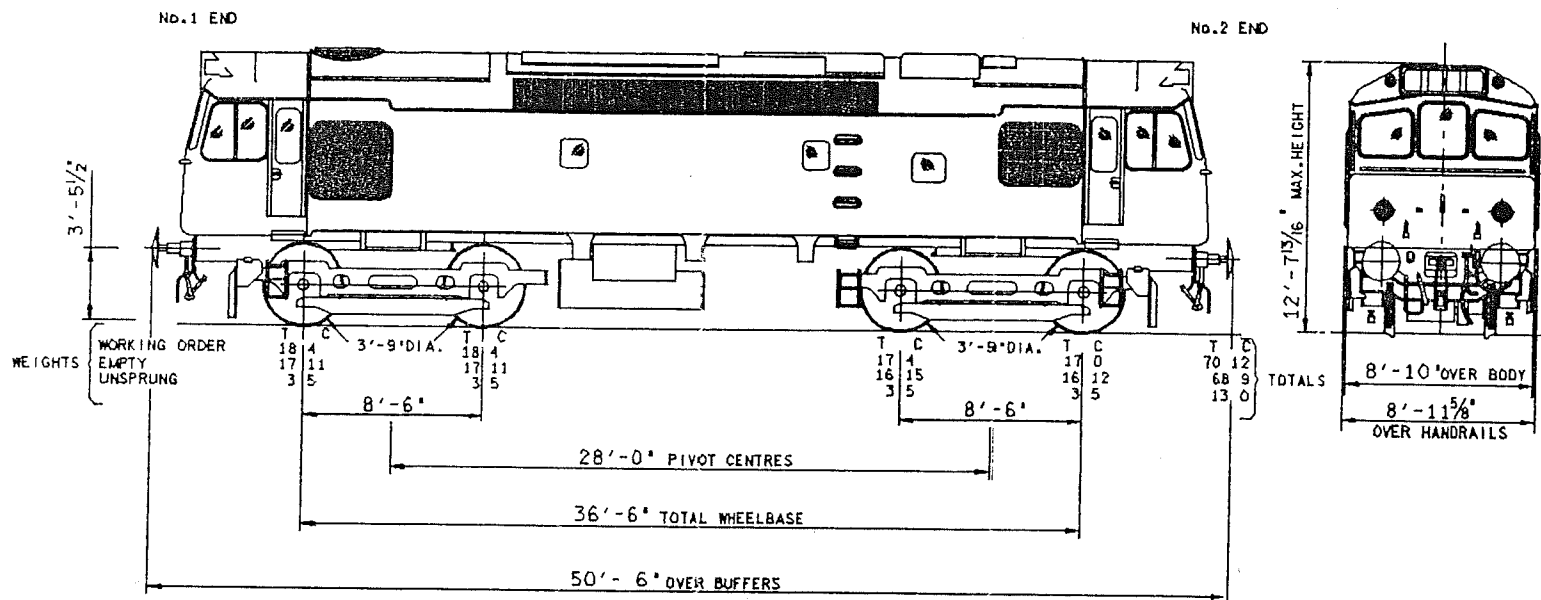
**1250 H.P. B.R. TYPE 2. B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 25/3**

25-3a V

1250 H.P.B.R.C.W.TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.

CLASS 25/9

25-9a X



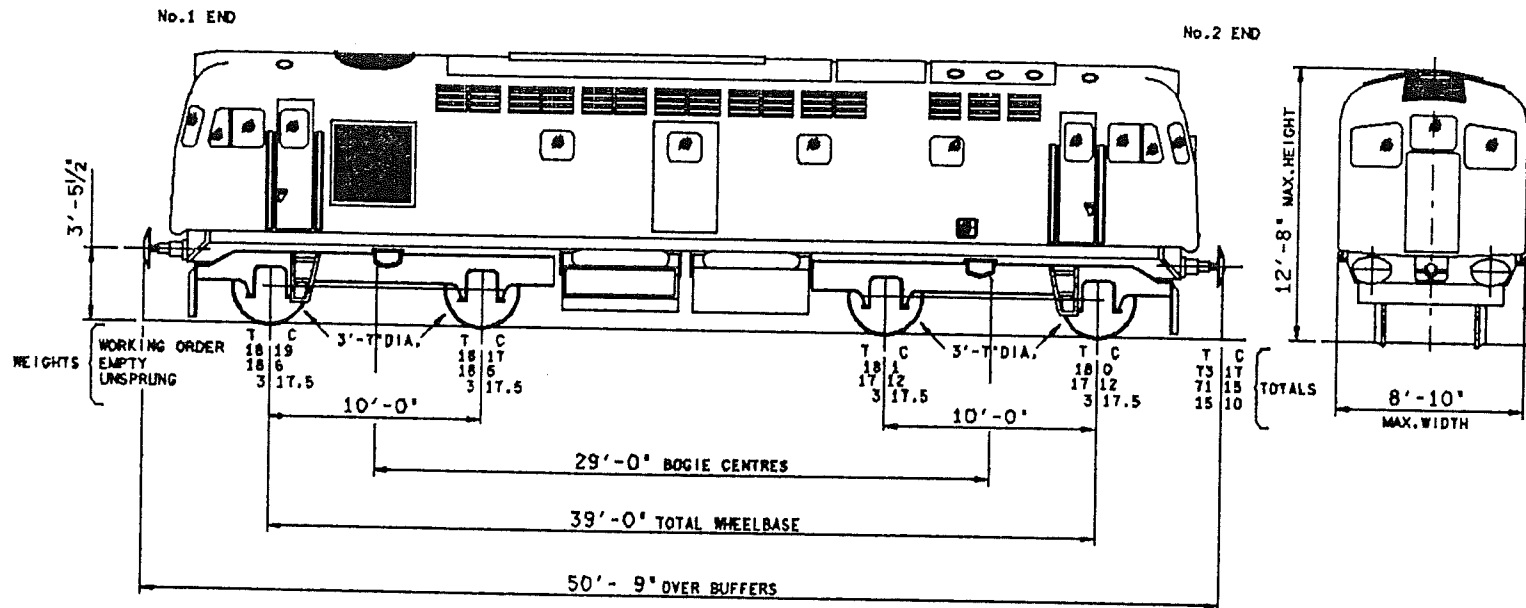
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE	SULZER 6LDA 28B 6 CYLS.4 STROKE	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO.AIR AUTO.AIR & AIR CONT.VAC.
MAIN GENERATOR	MAX.CONT.RATED OUTPUT MAKE & TYPE	1250 H.P.AT 750 R.P.M. A.E.I.R.T.B.15656		BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	89%
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	A.E.I.253 A.Y. FOUR. NOSE. SINGLE REDUCTION. 45,000LB.AT 28.5% ADHESION	MULTIPLE WORKING	COUPLING SYMBOL	BLUE STAR 4.5 CHAINS 3.7 CHAINS 7 CHAINS 7 CHAINS
PERFORMANCE	CONT.TRACTIVE EFFORT RAIL H.P.AT CONT.RATING FULL ENGINE OUTPUT	20,800LB.AT 17.1 M.P.H. AT 1,300 AMPS MAIN GENERATOR 949 H.P. AVAILABLE BETWEEN 7.0 & 60 MPH	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH WINS.GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	NOT FITTED
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX.SPEED	74 TONNES 38 TONNES - 5. 60 M.P.H.	TRAIN HEATING EQUIPMENT	TANK CAPACITY	ENGINE FUEL 500 GALLS.

DEC.1985

1160 H.P.B.R.C.W.TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.

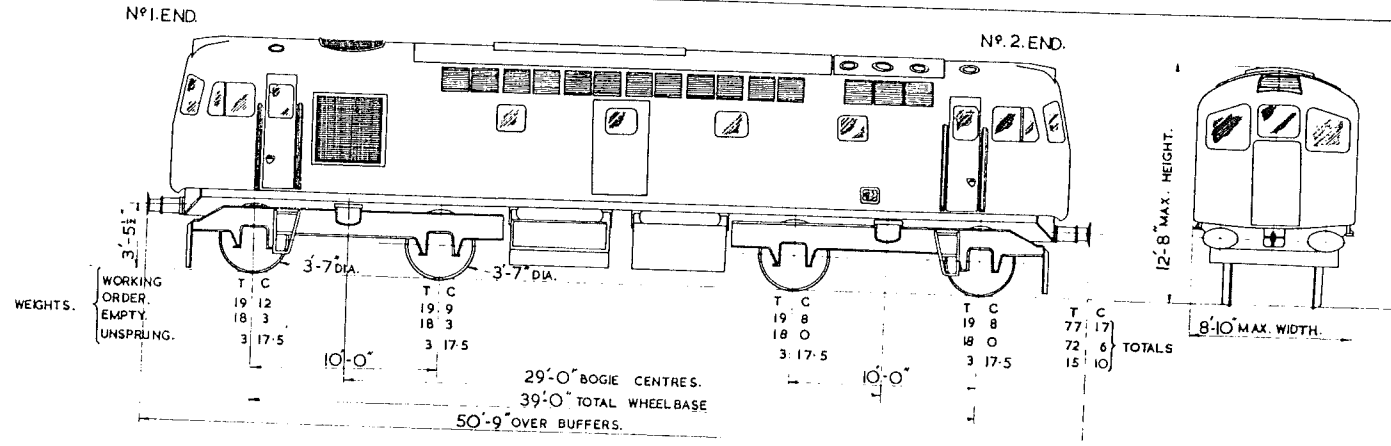
CLASS 26/0

26-0a X



ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 6LDA 28 6 CYLS. 4 STROKE 1160 H.P. AT 750 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC
MAIN GENERATOR	MAKE & TYPE	CROMPTON PARKINSON CG391A1	MULTIPLE WORKING	COUPLING SYMBOL	77.8%
TRACTION MOTORS	MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	CROMPTON PARKINSON C171A1 FOUR. NOSE. SINGLE REDUCTION. 42,000LB. AT 25.4% ADHESION	MINIMUM RADIUS CURVES	{ % OF LOCO WEIGHT IN WORKING ORDER HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	BLUE STAR 5 CHAINS 4.4 CHAINS 11 CHAINS 11 CHAINS.
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	30,000LB. AT 11.25M.P.H. AT 1720 AMPS. MAIN GENERATOR 900 H.P. AVAILABLE BETWEEN 7 & 75M.P.H.	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	78 TONNES 35 TONNES - 6 60 M.P.H.	TANK CAPACITY	ENGINE FUEL	500 GALLS.

FEB. 1989

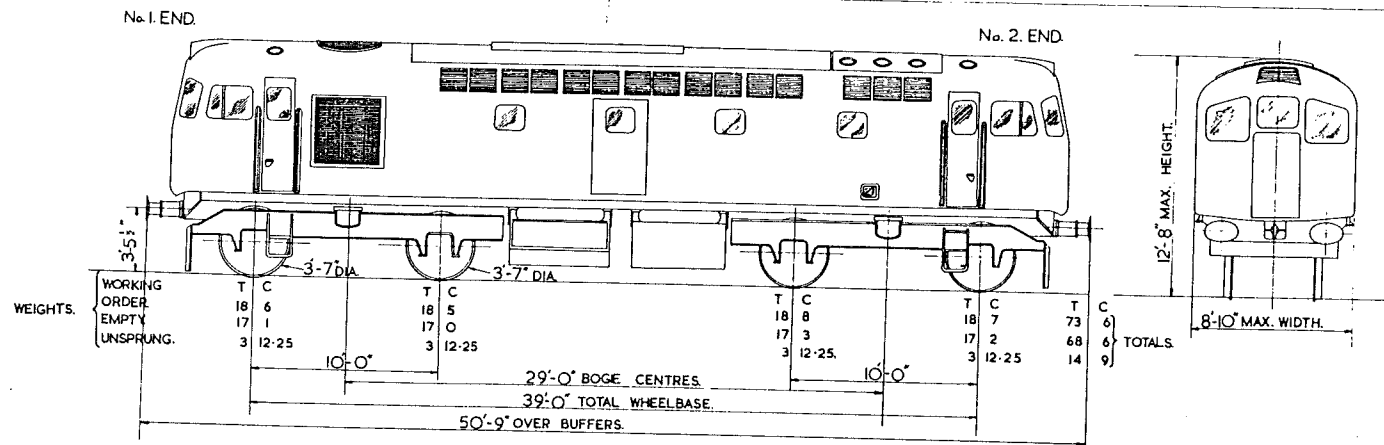


ENGINE.	MAKE & TYPE Nº OF CYLS. & CYCLE.	SULZER 6LDA28. 6 CYLS. 4. STROKE.		BRAKING.	TYPE { FOR LOCO. FOR TRAIN.	AIR VACUUM
MAIN GENERATOR.	MAKE & TYPE. MAX. CONT. RATED OUTPUT.	1160.HP AT 750.R.P.M. CROMPTON PARKINSON CG391A1.			BRAKE FORCE { %OF LOCO WEIGHT IN WORKING ORDER.	74 %
TRACTION MOTORS.	MAKE & TYPE. Nº TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	CROMPTON PARKINSON C171A1. FOUR. NOSE. SINGLE REDUCTION. 42,000LB. AT 23%ADHESION. AT 2240 AMPS. MAIN GENERATOR.		SPEED.	MAX. PERMITTED SERVICE SPEED HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	80M.P.H. 5 CHAINS 4.4 CHAINS 11 CHAINS 11 CHAINS
PERFORMANCE.	CONT. TRACTIVE EFFORT. RAIL HP AT CONT. RATING. FULL ENGINE OUTPUT.	30,000 LB. AT 11.25 M.P.H. AT 1,720 AMPS. MAIN GENERATOR. 900 H.P. AVAILABLE BETWEEN 7 & 75 M.P.H.		MINIMUM RADIUS CURVES	BOILER MAKE & TYPE STEAMING CAPACITY	STONE VAPOR 1750 LB/HOUR
				TRAIN HEATING EQUIPMENT	ENGINE FUEL. BOILER FUEL.	500 GALLS. 100 GALLS.
				TANK CAPACITIES.	BOILER WATER	550 GALLS.

1160 H.P. B.R.C.W. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.
CLASS 26/0

26-b V

DEC 81



ENGINE.	MAKE & TYPE.	SULZER 6LDA28.			
	No. OF CYLS. & CYCLE.	6 CYLS. 4. STROKE.			
MAIN GENERATOR.	MAX. CONT. RATED OUTPUT.	1160 H.P. AT 750 R.P.M.	BRAKING.	TYPE FOR LOCO.	AIR
	MAKE & TYPE.	CROMPTON PARKINSON CG391A1		FOR TRAIN.	VACUUM
	MAKE & TYPE.	CROMPTON PARKINSON C171D3		BRAKE FORCE. % OF LOCO WEIGHT.	78.6%
	No.	FOUR.	SPEED.	MAX. PERMITTED SERVICE SPEED.	80 M.P.H.
TRACTION MOTORS.	TYPE OF SUSPENSION.	NOSE.		HORIZONTAL WITHOUT GAUGE WIDENING	5 CHAINS
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION.	MINIMUM RADIUS CURVES	HORIZONTAL WITH 3/4 INS. GAUGE WIDENING	4-4 CHAINS
	MAX. TRACTIVE EFFORT.	42,000 L.B. AT 23% ADHESION.		VERTICAL CONVEX	11 CHAINS
		AT 2240 AMPS. MAIN GENERATOR.	TRAIN HEATING EQUIPMENT	VERTICAL CONCAVE	11 CHAINS
PERFORMANCE.	CONT. TRACTIVE EFFORT.	30,000 L.B. AT 11.25 M.P.H.		BOILER MAKE & TYPE	STONE VAPOR
		AT 1720 AMPS. MAIN GENERATOR.	TANK CAPACITIES	STEAMING CAPACITY	1750 LB/HOUR
	RAL HP AT CONT. RATING.	900 H.P.		ENGINE FUEL.	500 GALLS.
	FULL ENGINE OUTPUT.	AVAILABLE BETWEEN 7 & 75 M.P.H.		BOILER FUEL.	100 GALLS.
				BOILER WATER.	450 GALLS.

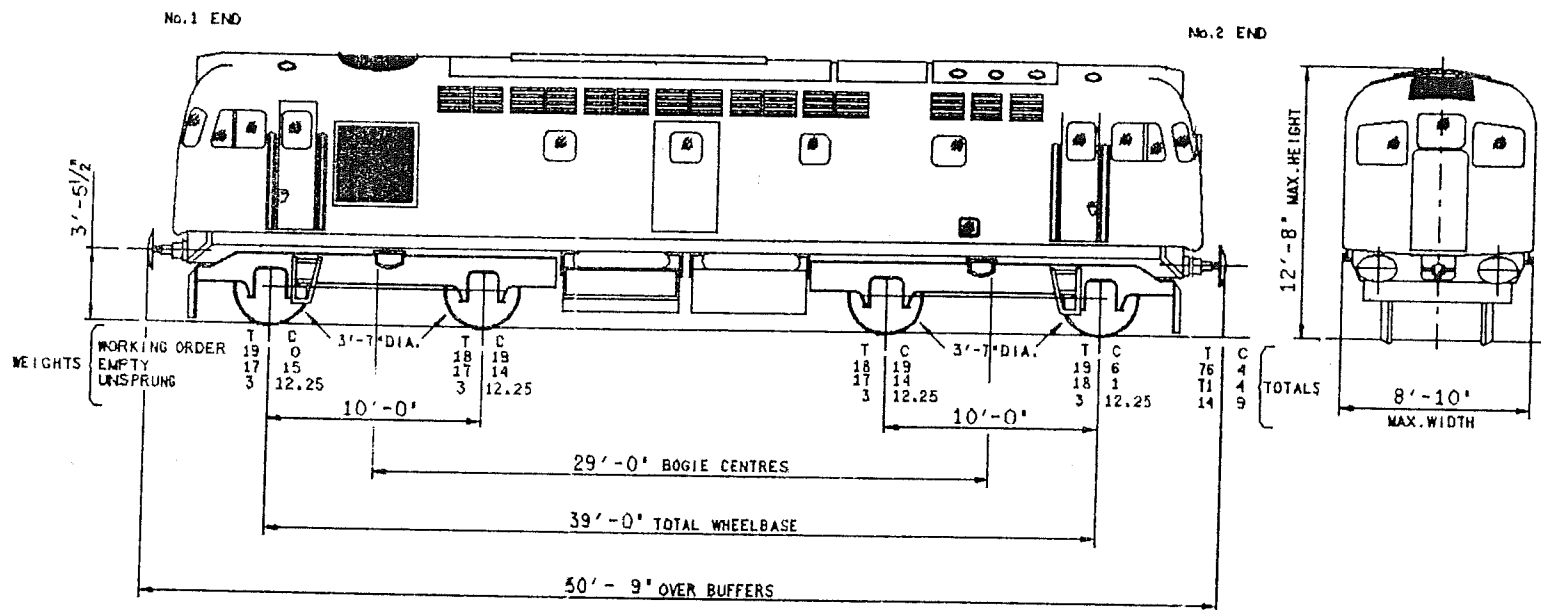
1160 H.P. B.R.C.W. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE CLASS 26/1

26-1a V

1160 H.P.B.R.F.W. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.

CLASS 26/1

26-1c X

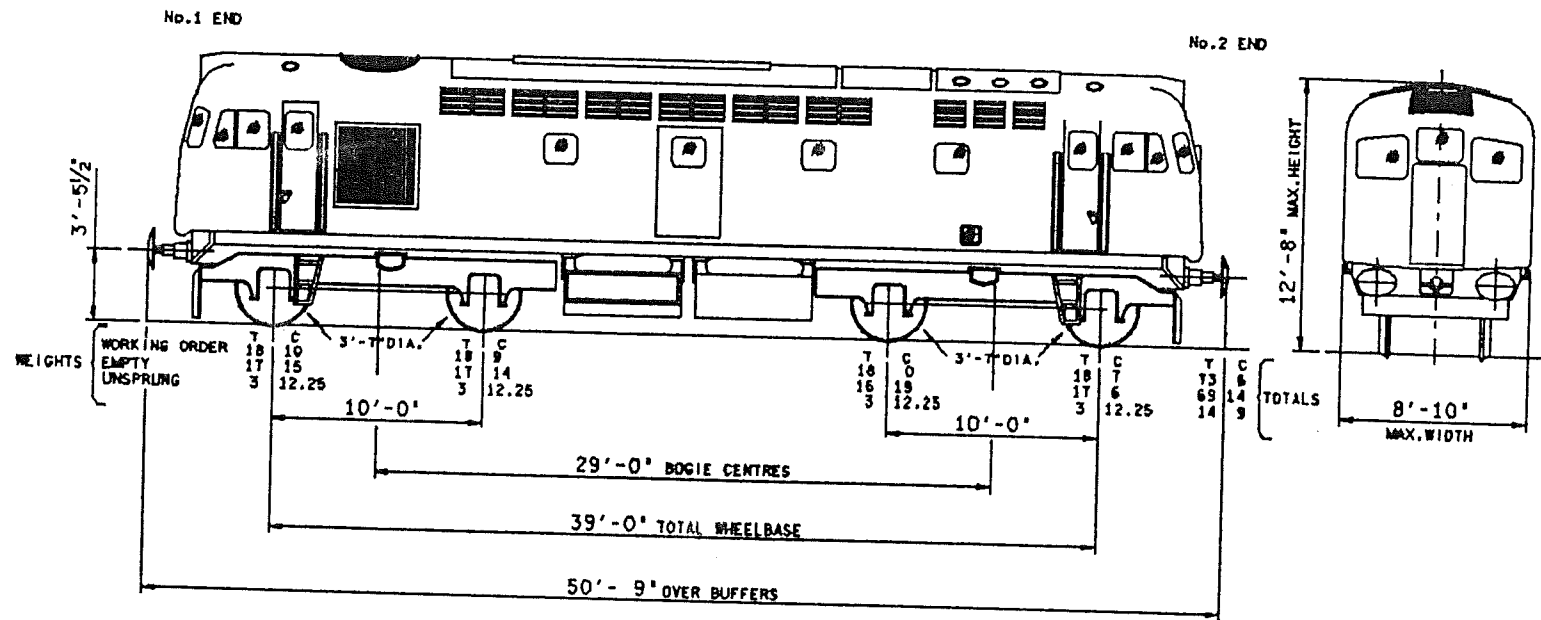


ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE	SULZER 6LDA 28 6 CYLS.4 STROKE	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR AUTO AIR & AIR CONT VAC
MAIN GENERATOR	MAX. CONT. RATED OUTPUT	1160 H.P. AT 750 R.P.M.		BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	75.4%
TRACTION MOTORS	MAKE & TYPE	CROMPTON PARKINSON CG391A1	MULTIPLE WORKING	COUPLING SYMBOL	BLUE STAR
	MAKE & TYPE	CROMPTON PARKINSON C171D3			5 CHAINS
	No.	FOUR.	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING	4.4 CHAINS
	TYPE OF SUSPENSION	NOSE.	CURVES	VERTICAL CONVEX	11 CHAINS
	TYPE OF GEAR DRIVE	SINGLE REDUCTION.		VERTICAL CONCAVE	11 CHAINS.
	MAX TRACTIVE EFFORT	42,000LB. AT 24.6% ADHESION	TRAIN HEATING	BOILER MAKE & TYPE	STONE VAPOR
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 2240 AMPS. MAIN GENERATOR	EQUIPMENT	STEAMING CAPACITY	1750 LB/HOUR
		30,000LB. AT 11.25M.P.H.			
		AT 1720 AMPS. MAIN GENERATOR	TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	500 GALLS. 100 GALLS 450 GALLS
	RAIL H.P. AT CONT. RATING	900 H.P.			
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 7 & 75M.P.H.			
DATA PANEL	WEIGHT	73 TONNES			
	BRAKE FORCE	35 TONNES			
	E.T.H. INDEX	-			
	ROUTE AVAILABILITY	5			
	MAX. SPEED	80 M.P.H.			

1160 H.P.B.R.C.W.TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.

CLASS 26/1

26-1d X

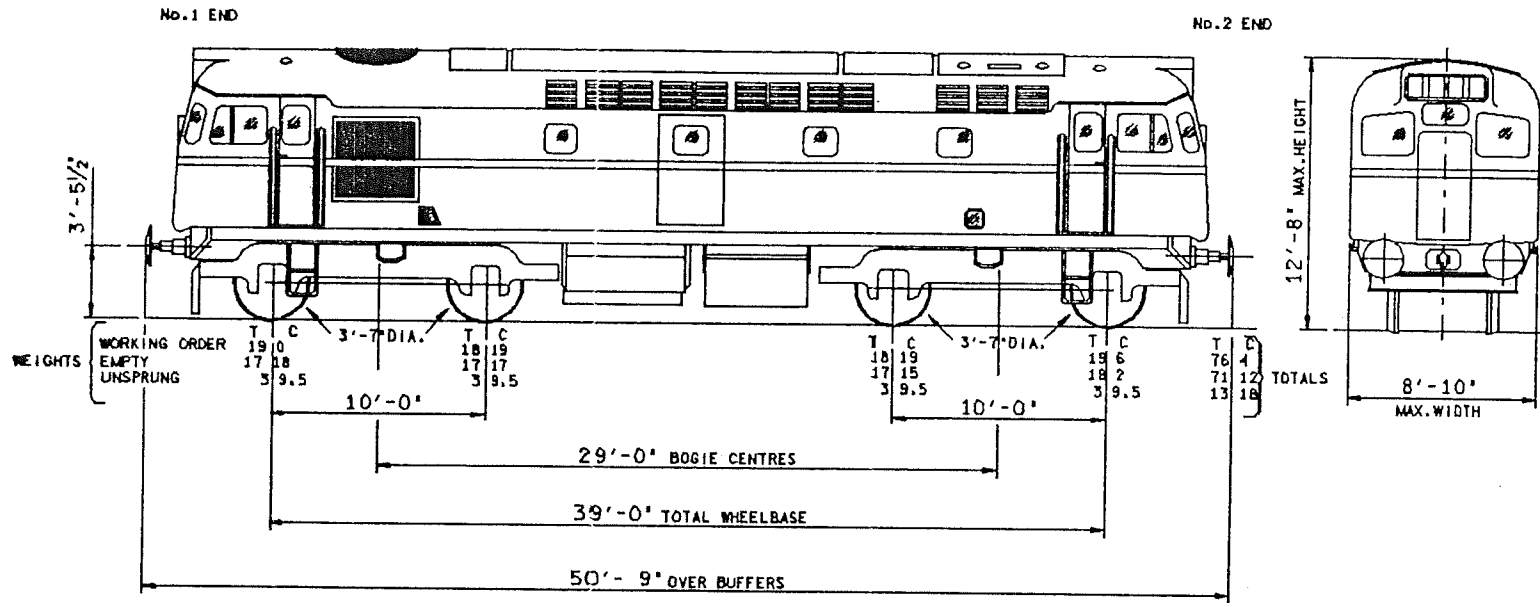


ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 6LDA 28 6 CYLS. 4 STROKE 1160 H.P. AT 750 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR AUTO AIR & AIR CONT VAC
MAIN GENERATOR	MAKE & TYPE	CROMPTON PARKINSON CG391A1	MULTIPLE WORKING	COUPLING SYMBOL	78.5%
TRACTION MOTORS	MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	CROMPTON PARKINSON C171D3 FOUR. NOSE. SINGLE REDUCTION. 42,000LB. AT 25.6% ADHESION AT 2240 AMPS. MAIN GENERATOR 30,000LB. AT 11.25M.P.H. AT 1720 AMPS. MAIN GENERATOR	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	BLUE STAR 5 CHAINS 4.4 CHAINS 11 CHAINS 11 CHAINS.
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	900 H.P. AVAILABLE BETWEEN 7 & 75M.P.H.	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	73 TONNES 35 TONNES 5 60 M.P.H.	TANK CAPACITIES	ENGINE FUEL	500 GALLS.

1250 H.P.B.R.C.W.TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.

CLASS 27/0

27-0c X



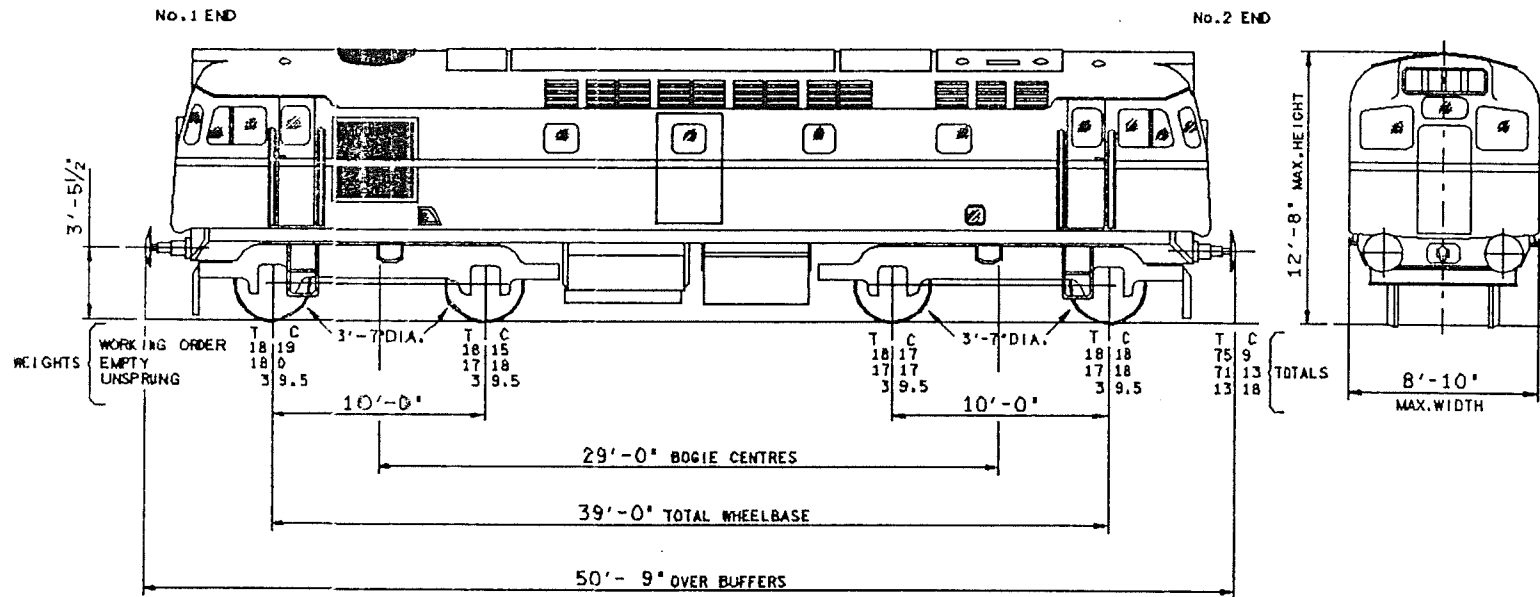
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 6LDA 28B 6 CYLS. 4 STROKE 1250 H.P. AT 750 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC.
MAIN GENERATOR	MAKE & TYPE	G.E.C.W.T. 981	MULTIPLE WORKING	COUPLING SYMBOL	78.1%
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	G.E.C.W.T. 459 FOUR. NOSE. SINGLE REDUCTION. 40,000LB. AT 23.4% ADHESION	MINIMUM RADIUS CURVES	BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	BLUE STAR 5 CHAINS
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 2800 AMPS. MAIN GENERATOR 25,000LB. AT 14 M.P.H. AT 1940 AMPS. MAIN GENERATOR	TRAIN HEATING EQUIPMENT	HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4.4 CHAINS 11 CHAINS 11 CHAINS.
DATA PANEL	RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	933 H.P. AVAILABLE BETWEEN 7.5 & 80 MPH 73 TONNES 35 TONNES - 5. 45 M.P.H.	TANK CAPACITIES	BOILER MAKE & TYPE STEAMING CAPACITY ENGINE FUEL BOILER FUEL BOILER WATER	STONE VAPOUR 1750 LB/HOUR 500 GALLS. 100 GALLS. 450 GALLS.

MAY 1987

1250 H.P.B.R.C.W.TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.

CLASS 27/0

27-0d X



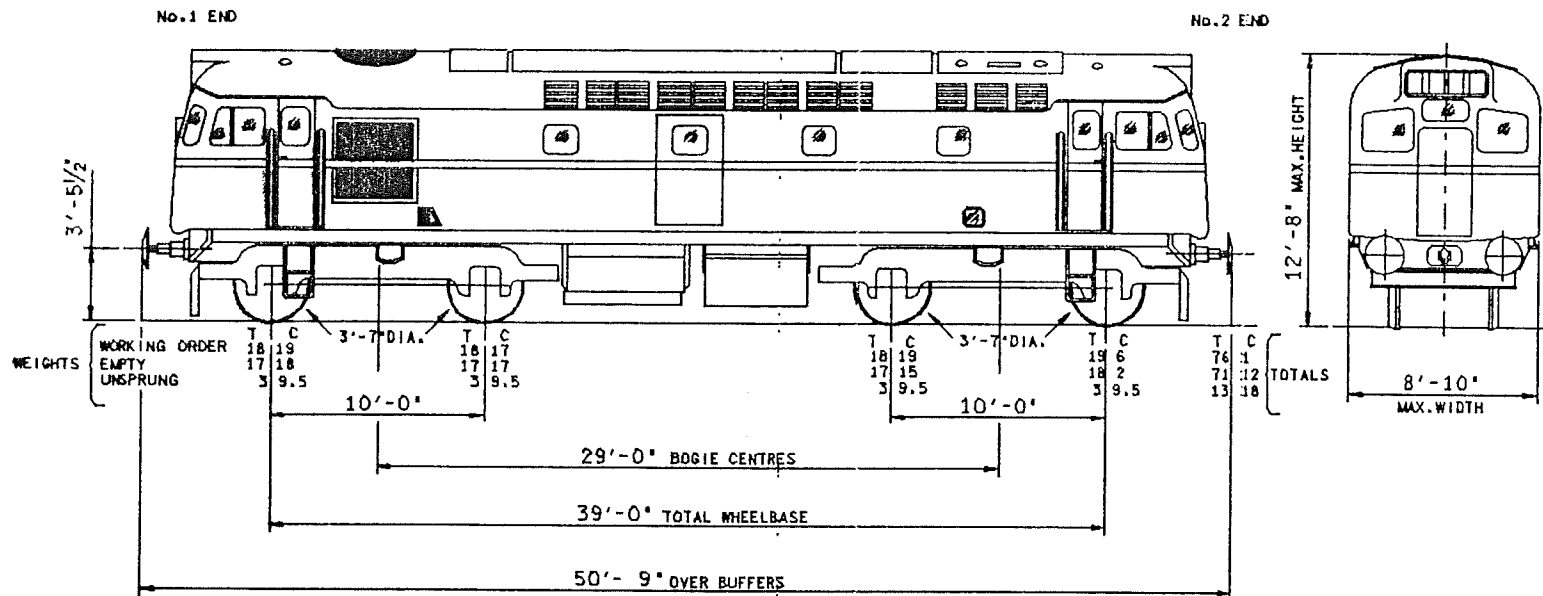
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 6LDA 28B 6 CYLS. 4 STROKE 1250 H.P. AT 750 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC.
MAIN GENERATOR	MAKE & TYPE	G.E.C. W.T. 981	MULTIPLE WORKING	COUPLING SYMBOL	BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	G.E.C. W.T. 459 FOUR. NOSE. SINGLE REDUCTION. 40,000LB. AT 22.3% ADHESION AT 2800 AMPS. MAIN GENERATOR	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	78.9%
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 1940 AMPS. MAIN GENERATOR	CURVES		BLUE STAR 5 CHAINS 4.4 CHAINS 11 CHAINS 11 CHAINS.
DATA PANEL	RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	933 H.P. AVAILABLE BETWEEN 7.5 & 80MPH 73 TONNES 35 TONNES - 5. 45 M.P.H.	TRAIN HEATING	EQUIPMENT	NOT FITTED
			TANK CAPACITIES	ENGINE FUEL	970 GALLS.

MAY 1987

1250 H.P.B.R.C.W.TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.

CLASS 27/0

27-0e X



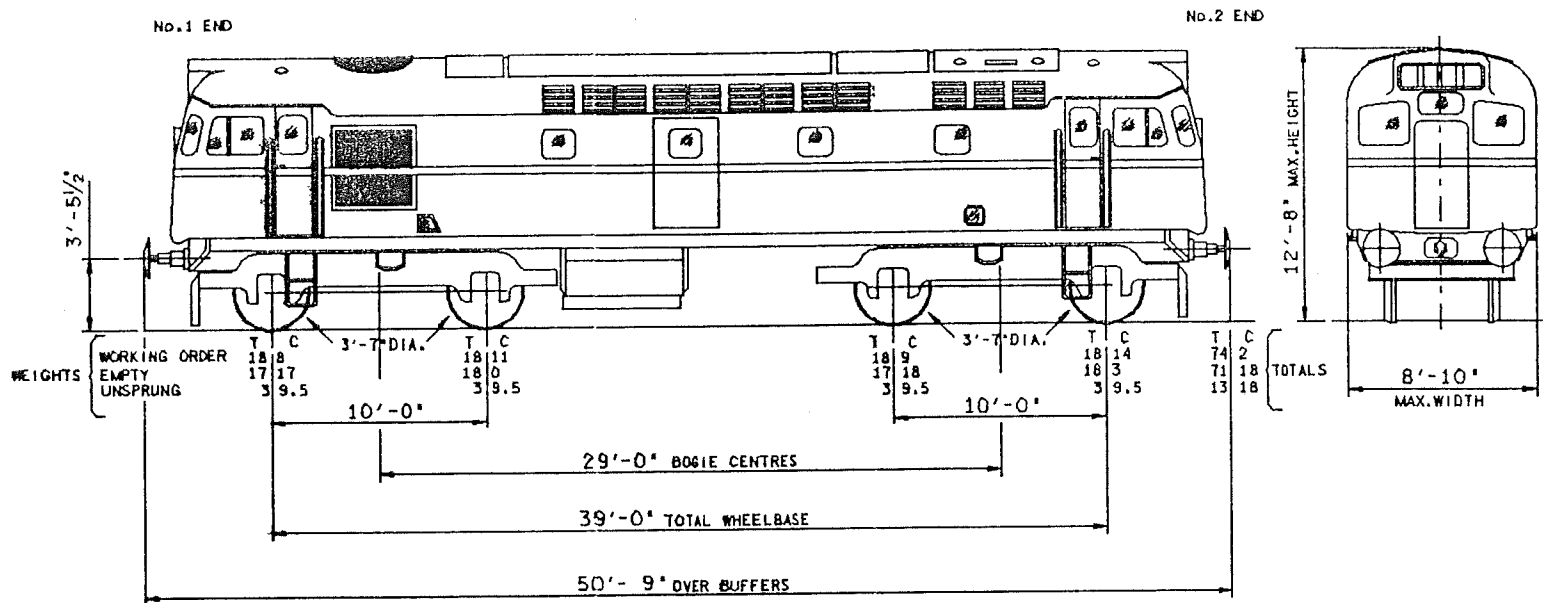
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE	SULZER 6LDA 28B 6 CYLS. 4 STROKE	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO.AIR AUTO.AIR & AIR CONT.VAC.
MAIN GENERATOR	MAX. CONT. RATED OUTPUT MAKE & TYPE	1250 H.P. AT 750 R.P.M. G.E.C. W.T. 981		BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	78.3%
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION. TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	G.E.C. W.T. 459 FOUR. NOSE. SINGLE REDUCTION. 40,000LB. AT 23.5% ADHESION	MULTIPLE WORKING	COUPLING SYMBOL	BLUE STAR
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT WEIGHT	25,000LB. AT 14 M.P.H. AT 1940 AMPS. MAIN GENERATOR 933 H.P. 73 TONNES	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	5 CHAINS 4.4 CHAINS 11 CHAINS 11 CHAINS.
DATA PANEL	BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	35 TONNES - 5. 45 N.P.H.	TRAIN HEATING EQUIPMENT	{ BOILER MAKE & TYPE STEAMING CAPACITY	STONE VAPOR 1750LB./HOUR
			TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	685 GALLS. 100 GALLS. 300 GALLS.

MAY 1987

1250 H.P.B.R.C.W. TYPE 2 B-B DIESEL ELECTRIC LOCOMOTIVE.

CLASS 27/0

27-0f X



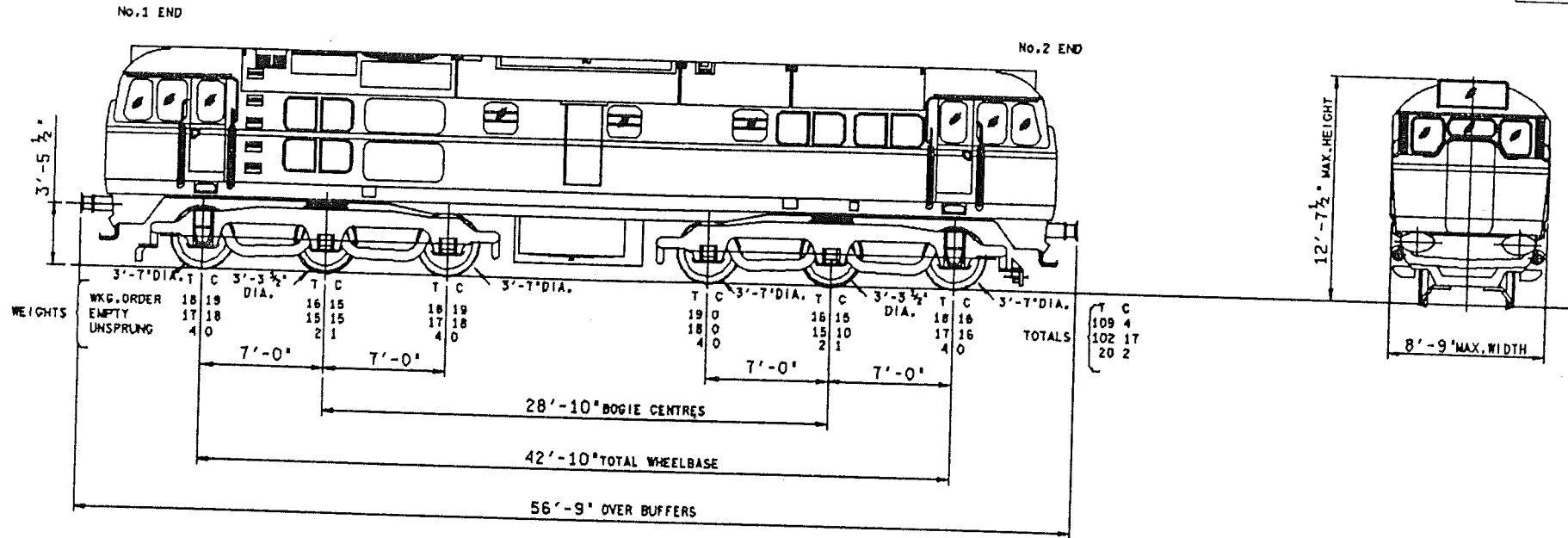
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 6LDA 28B 6 CYLS. 4 STROKE 1250 H.P. AT 750 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC.
MAIN GENERATOR	MAKE & TYPE	G.E.C. W.T. 981	MULTIPLE WORKING	COUPLING SYMBOL BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	BLUE STAR 5 CHAINS
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	G.E.C. W.T. 459 FOUR. NOSE. SINGLE REDUCTION. 40,000LB. AT 24.1% ADHESION	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4.4 CHAINS 11 CHAINS 11 CHAINS.
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 2800 AMPS. MAIN GENERATOR AT 1940 AMPS. MAIN GENERATOR 933 H.P. AVAILABLE BETWEEN 7.5 & 80MPH	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	73 TONNES 35 TONNES - 5. 45 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL AUX. FUEL	500 GALLS. 100 GALLS.

MAY 1987

1470 H.P. BRUSH TYPE 2 A1A-A1A DIESEL ELECTRIC LOCOMOTIVE.

CLASS 31/1

31-1c X



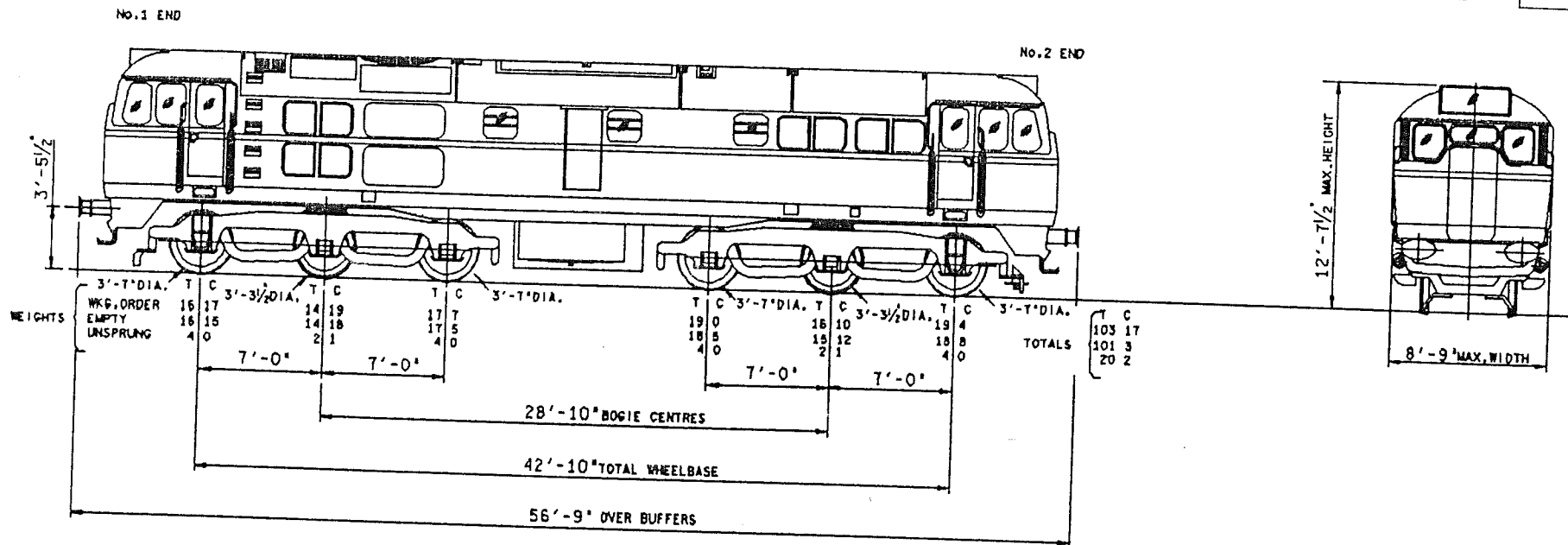
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 SVT 12 CYLS. 4 STROKE 1470 H.P. AT 850 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC
MAIN GENERATOR	MAKE & TYPE	BRUSH TG160-48	MULTIPLE WORKING	COUPLING SYMBOL	76.5%
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM73-68 FOUR. NOSE. SINGLE REDUCTION. 35,900LB. AT 21.2% ADHESION AT 2000 AMPS. MAIN GENERATOR 18,700LB. AT 23.5 M.P.H. AT 1200 AMPS. MAIN GENERATOR	MINIMUM RADIUS CURVES	HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	BLUE STAR 4.5 CHAINS 4.15 CHAINS 6 CHAINS 8 CHAINS
PERFORMANCE	CONT. TRACTIVE EFFORT	1170 H.P. AVAILABLE BETWEEN 10.75 & 73.9 M.P.H.	TRAIN HEATING EQUIPMENT	BOILER MAKE & TYPE STEAMING CAPACITY	SPANNER SWIRLYFLOW 1500 LB/HOUR
DATA PANEL	RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	1170 H.P. AVAILABLE BETWEEN 10.75 & 73.9 M.P.H. 107 TONNES 49 TONNES - 5. 60 M.P.H.	TANK CAPACITIES	ENGINE FUEL BOILER FUEL BOILER WATER	530 GALLONS 100 GALLONS 600 GALLONS

FEB. 1989

1470 H.P. BRUSH TYPE 2 A1A-A1A DIESEL ELECTRIC LOCOMOTIVE.

CLASS 31/1

31-1f X



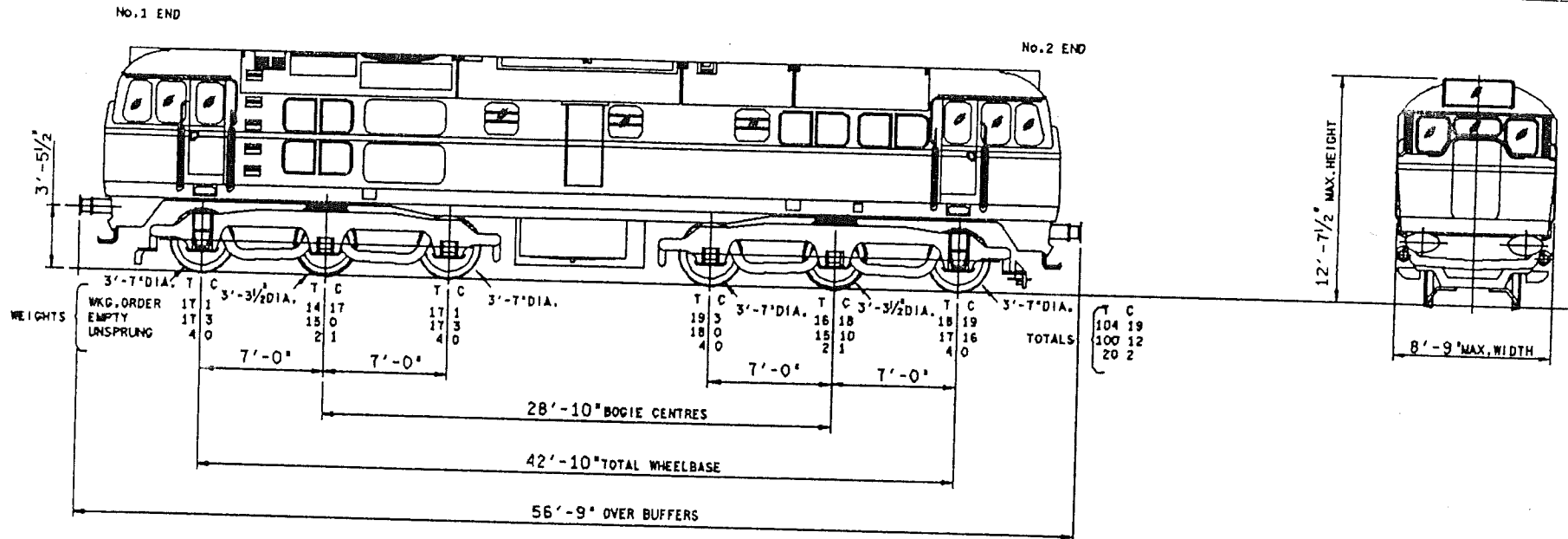
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 SVT 12 CYLS. 4 STROKE 1470 H.P. AT 850 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC
MAIN GENERATOR	MAKE & TYPE	BRUSH TG160-48	MULTIPLE WORKING	BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	80.2%
TRACTION MOTORS	MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM73-68 FOUR. NOSE. SINGLE REDUCTION. 35,900LB. AT 22.1% ADHESION AT 2000 AMPS. MAIN GENERATOR 18,700LB. AT 23.5 M.P.H. AT 1200 AMPS. MAIN GENERATOR	MINIMUM RADIUS CURVES	COUPLING SYMBOL HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH WINS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	BLUE STAR 4.5 CHAINS 4.15 CHAINS 6 CHAINS 8 CHAINS
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	1170 H.P. AVAILABLE BETWEEN 10.75 & 73.9 M.P.H.	TRAIN HEATING EQUIPMENT TANK CAPACITY	ENGINE FUEL	NOT FITTED 530 GALLONS
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	107 TONNES 49 TONNES - 5. 60 M.P.H.			

FEB. 1989

1470 H.P. BRUSH TYPE 2 AIA-AIA DIESEL ELECTRIC LOCOMOTIVE.

CLASS 31/1

31-1g X



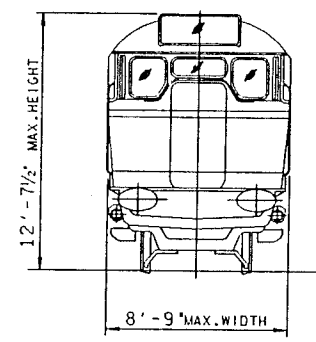
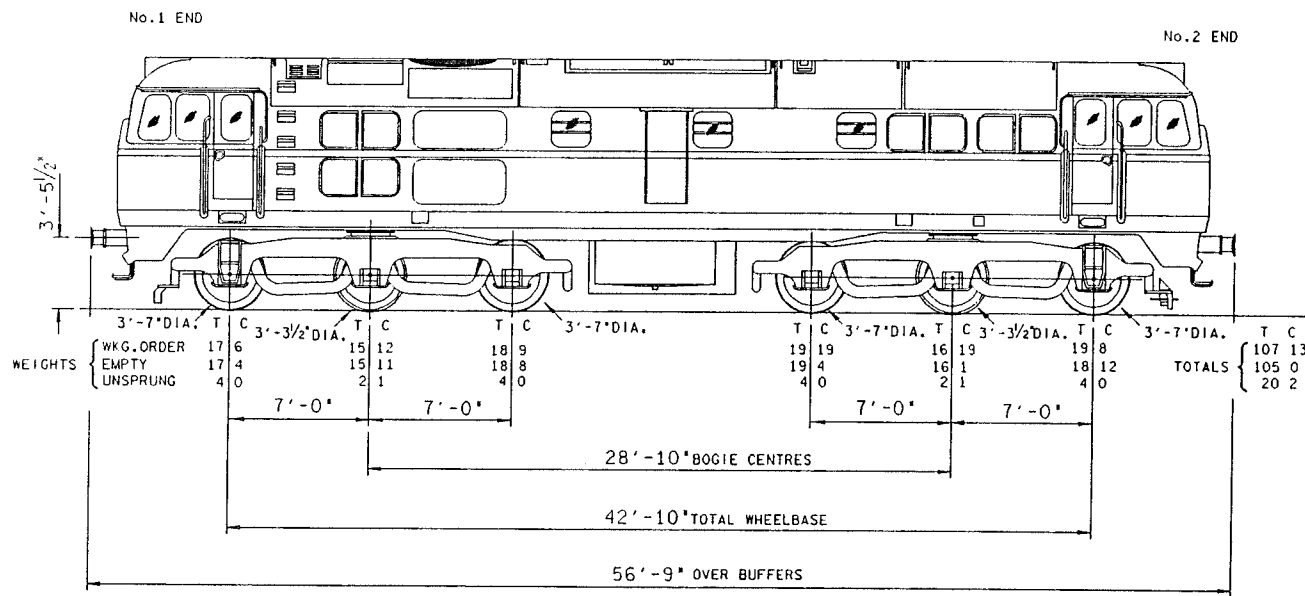
ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 12 SVT	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO. AIR
MAIN GENERATOR	No. OF CYLS. & CYCLE	12 CYLS. 4 STROKE		FOR TRAIN		AUTO. AIR & AIR CONT. VAC
	MAX. CONT. RATED OUTPUT	1470 H.P. AT 850 R.P.M.		BRAKE FORCE	{ % OF LOCO WEIGHT	79.6%
	MAKE & TYPE	BRUSH TG160-48	MULTIPLE WORKING	COUPLING SYMBOL	IN WORKING ORDER	
TRACTION MOTORS	MAKE & TYPE	BRUSH TM73-68				BLUE STAR
	No	FOUR.	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING		4.5 CHAINS
	TYPE OF SUSPENSION	NOSE.	CURVES	{ HORIZONTAL WITH WINS. GAUGE WIDENING		4.15 CHAINS
	TYPE OF GEAR DRIVE	SINGLE REDUCTION.		VERTICAL CONVEX		6 CHAINS
	MAX TRACTIVE EFFORT	42,800LB. AT 26.1% ADHESION	TRAIN HEATING	VERTICAL CONCAVE		8 CHAINS
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 2000 AMPS. MAIN GENERATOR	EQUIPMENT			
	RAIL H.P. AT CONT. RATING	22,250LB. AT 19.7 M.P.H.	TANK CAPACITY	ENGINE FUEL		NOT FITTED
	FULL ENGINE OUTPUT	AT 1200 AMPS. MAIN GENERATOR				530 GALLONS
DATA PANEL	WEIGHT	1170 H.P.				
	BRAKE FORCE	AVAILABLE BETWEEN 9 & 62 M.P.H.				
	E.T.H. INDEX	107 TONNES				
	ROUTE AVAILABILITY	49 TONNES				
	MAX. SPEED	5.				
		60 M.P.H.				

FEB. 1989

1470 H.P. BRUSH TYPE 2 AIA-AIA DIESEL ELECTRIC LOCOMOTIVE.

CLASS 31/4

31-1j	X
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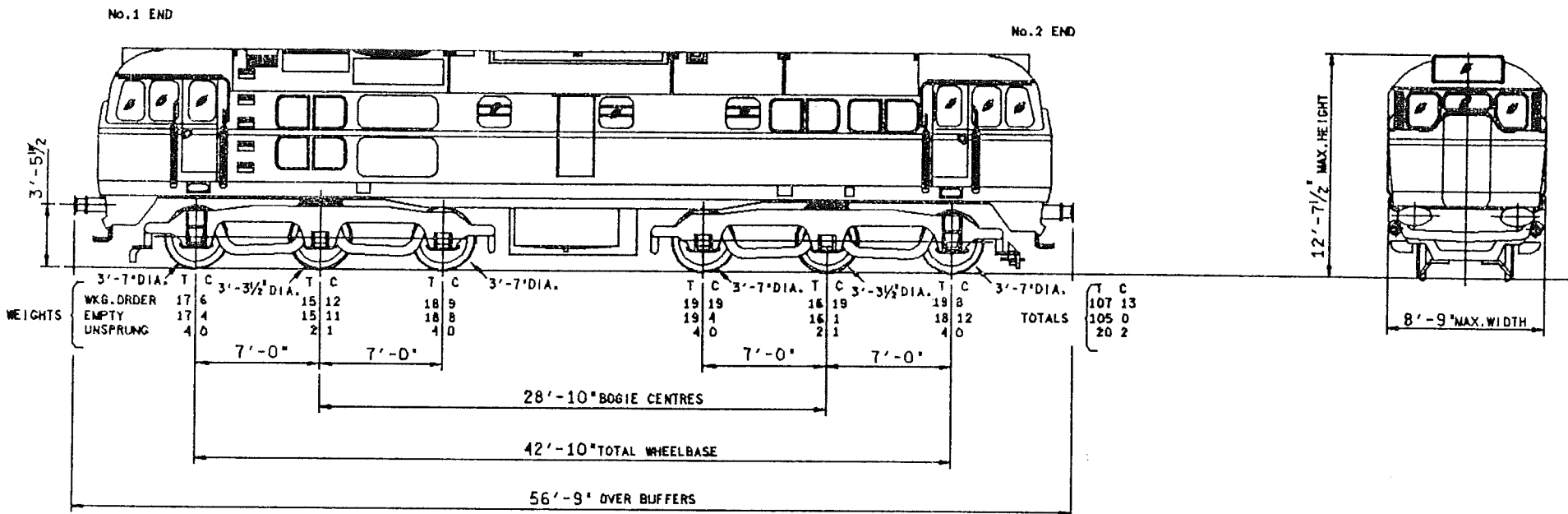
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 SVT 12 CYLS. 4 STROKE 1470 H.P. AT 850 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG160-48		{ BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	77.4%
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM73-68 FOUR. NOSE. SINGLE REDUCTION. 35,900LB. AT 21.3% ADHESION	MULTIPLE WORKING	COUPLING SYMBOL	-
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 2000 AMPS. MAIN GENERATOR 18,700LB. AT 23.5 M.P.H. AT 1200 AMPS. MAIN GENERATOR 1170 H.P. AVAILABLE BETWEEN 10.75 & 73.9 M.P.H.	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4.5 CHAINS 4.15 CHAINS 6 CHAINS 8 CHAINS
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	109 TONNES 49 TONNES 6 60 M.P.H.	TRAIN HEATING EQUIPMENT	ISOLATED	
			TANK CAPACITY	ENGINE FUEL	530 GALLONS

JAN. 1992

1470 H.P. BRUSH TYPE 2 A1A-A1A DIESEL ELECTRIC LOCOMOTIVE.

CLASS 31/4

31-4c X

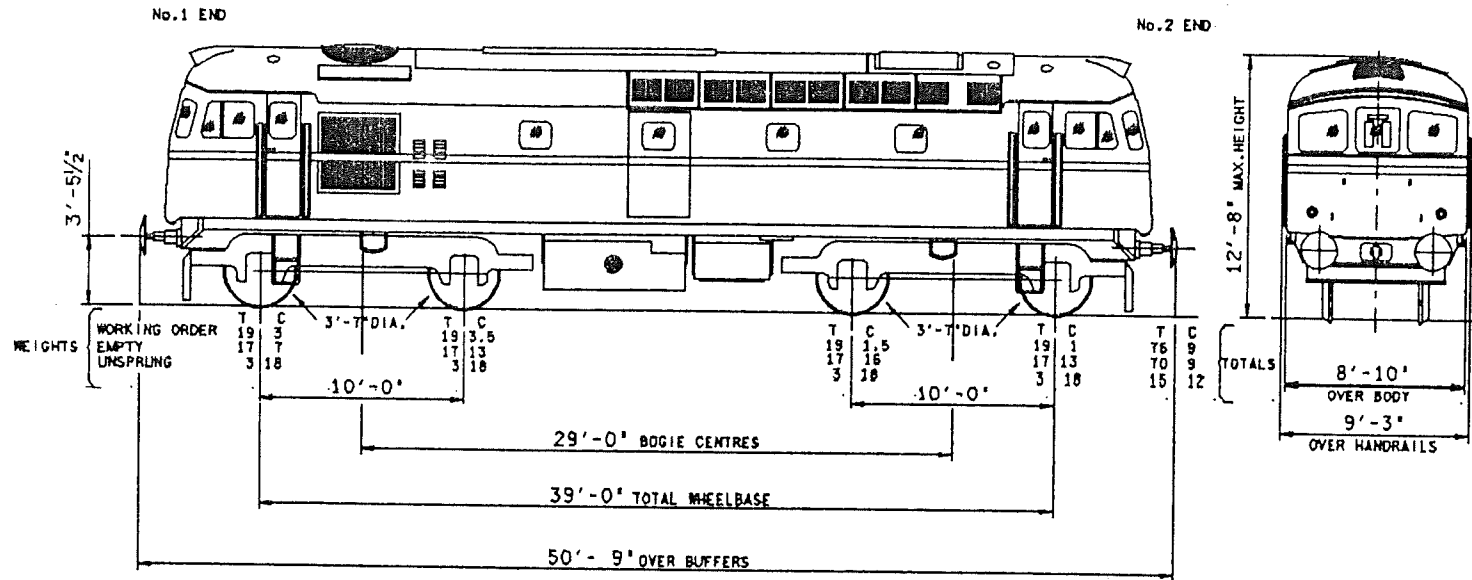


ENGINE	MAKE & TYPE ENGLISH ELECTRIC 12 SVT	NO. OF CYLS. & CYCLE 12 CYLS. 4 STROKE	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR
MAIN GENERATOR	MAX. CONT. RATED OUTPUT 1470 H.P. AT 850 R.P.M.	BRUSH TG160-48	MULTIPLE WORKING	COUPLING SYMBOL	AUTO. AIR & AIR CONT. VAC
TRACTION MOTORS	MAKE & TYPE BRUSH TM73-68	FOUR.	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING	4.5 CHAINS
	NOSE.	SINGLE REDUCTION.	CURVES	HORIZONTAL WITH 1/4 INS. GAUGE WIDENING	4.15 CHAINS
	TYPE OF SUSPENSION	35,900 LB. AT 21.3% ADHESION		VERTICAL CONVEX	6 CHAINS
	TYPE OF GEAR DRIVE	AT 2000 AMPS. MAIN GENERATOR		VERTICAL CONCAVE	8 CHAINS
	MAX TRACTIVE EFFORT	18,700 LB. AT 23.5 M.P.H.	TRAIN HEATING	ELECTRIC ALTERNATOR	BRUSH BL100-30
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 1200 AMPS. MAIN GENERATOR	EQUIPMENT	{ MAKE & TYPE DRIVEN BY CONT. OUTPUT	MAIN ENGINE
	RAIL H.P. AT CONT. RATING	1170 H.P.	TANK CAPACITY	ENGINE FUEL	320 KW AT 870 VOLTS.
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10.75 & 73.9 M.P.H.			
DATA PANEL	WEIGHT	108 TONNES			530 GALLONS
	BRAKE FORCE	49 TONNES			
	E.T.H. INDEX	66			
	ROUTE AVAILABILITY	6			
	MAX. SPEED	90 M.P.H.			

1550 H.P.B.R.C.W.TYPE 3 B-B DIESEL ELECTRIC LOCOMOTIVE.

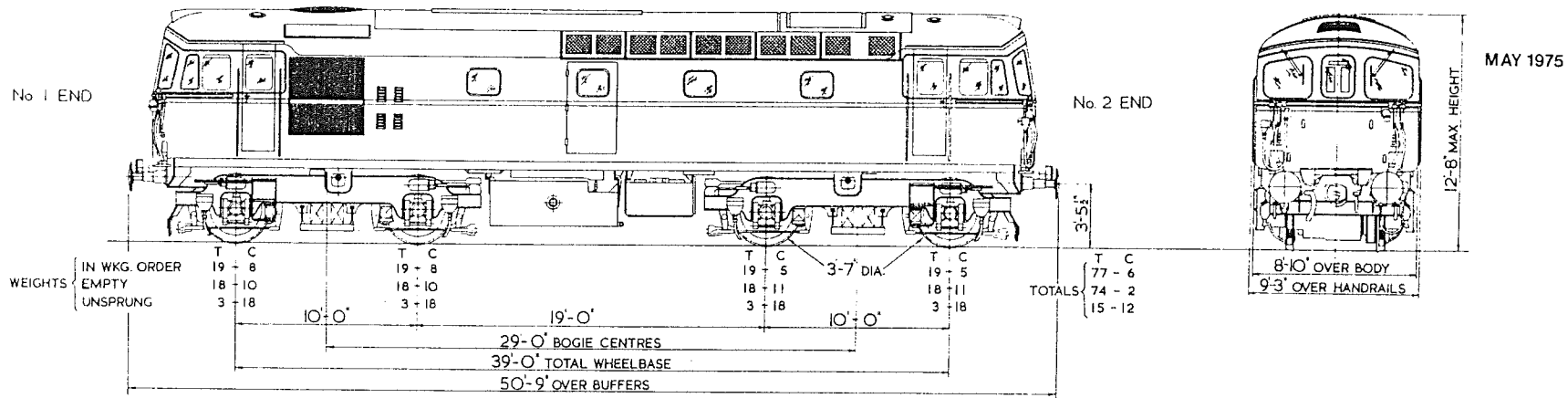
CLASS 33/0

33-0a X



ENGINE	MAKE & TYPE	SULZER 8LDA 28	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO.AIR				
MAIN GENERATOR	No. OF CYLS. & CYCLE	8 CYLS.4 STROKE	MULTIPLE WORKING	FOR TRAIN		AUTO.AIR & AIR CONT.VAC.				
	MAX.CONT.RATED OUTPUT	1550 H.P.AT 750 R.P.M.		COUPLING SYMBOL	BRAKE FORCE	{ % OF LOCO WEIGHT	76.4%			
TRACTION MOTORS	MAKE & TYPE	CROMPTON PARKINSON CG 391B1	MINIMUM RADIUS	IN WORKING ORDER						
	MAKE & TYPE	CROMPTON PARKINSON C 171C2		CURVES	HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS				
	No	FOUR.			HORIZONTAL WITH WINS.GAUGE WIDENING	3.3 CHAINS				
	TYPE OF SUSPENSION	AXLE.			VERTICAL CONVEX	11 CHAINS				
TYPE OF GEAR DRIVE	SINGLE REDUCTION.	VERTICAL CONCAVE	11 CHAINS.							
PERFORMANCE	MAX TRACTIVE EFFORT	45,000LB.AT 26.3% ADHESION	TRAIN HEATING	ELECTRIC GENERATOR MAKE & TYPE	CROMPTON PARKINSON CAG 392 A1	ENGINE				
	CONT.TRACTIVE EFFORT	AT 2620 AMPS.MAIN GENERATOR					EQUIPMENT	DRIVEN BY	235 K.W. AT 750 VOLTS	
	RAIL H.P.AT CONT.RATING	AT 1760 AMPS.MAIN GENERATOR								CONT. OUTPUT
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10 & 80MPH								
WEIGHT	76 TONNES	TANK CAPACITIES	ENGINE FUEL	750 GALLS.						
DATA PANEL	BRAKE FORCE	35 TONNES								
	E.T.H.INDEX	48								
	ROUTE AVAILABILITY	6.								
	MAX.SPEED	60 M.P.H.								

FEB.1989



ENGINE	MAKE & TYPE No OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 8LDA28 8 CYLS., 4 STROKE 1550 H.P. AT 750 R.P.M.	BRAKING	TYPE { FOR LOCO. FOR TRAIN	STRAIGHT AIR & AUTOMATIC AIR AUTOMATIC AIR & AIR CONTROLLED VACUUM
MAIN GENERATOR	MAKE & TYPE	CROMPTON PARKINSON CG 391 B1		BRAKE FORCE { % OF LOCO. WEIGHT IN WORKING ORDER	76 %
TRACTION MOTORS	MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE	CROMPTON PARKINSON C171C2 FOUR AXLE SINGLE REDUCTION	SPEED	MAX. PERMITTED SERVICE SPEED	85 M.P.H.
PERFORMANCE	MAX. TRACTIVE EFFORT	45000 LBS. AT 26.0% ADHESION	MINIMUM RADIUS CURVES	HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4" GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS 3 3/4 CHAINS 11 CHAINS 11 CHAINS
	CONT. TRACTIVE EFFORT	AT 2620 AMPS. MAIN GENERATOR 26000 LBS AT 17.5 M.P.H. AT 1760 AMPS. MAIN GENERATOR	TRAIN HEATING EQUIPMENT	ELECTRIC GENERATOR MAKE & TYPE DRIVEN BY CONT. OUTPUT	CROMPTON PARKINSON CAG 392 AI ENGINE 235 K.W AT 750 VOLTS
	RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	1215 H.P. AVAILABLE BETWEEN 10 & 80 M.P.H.	TANK CAPACITY	ENGINE FUEL	750 GALLS.

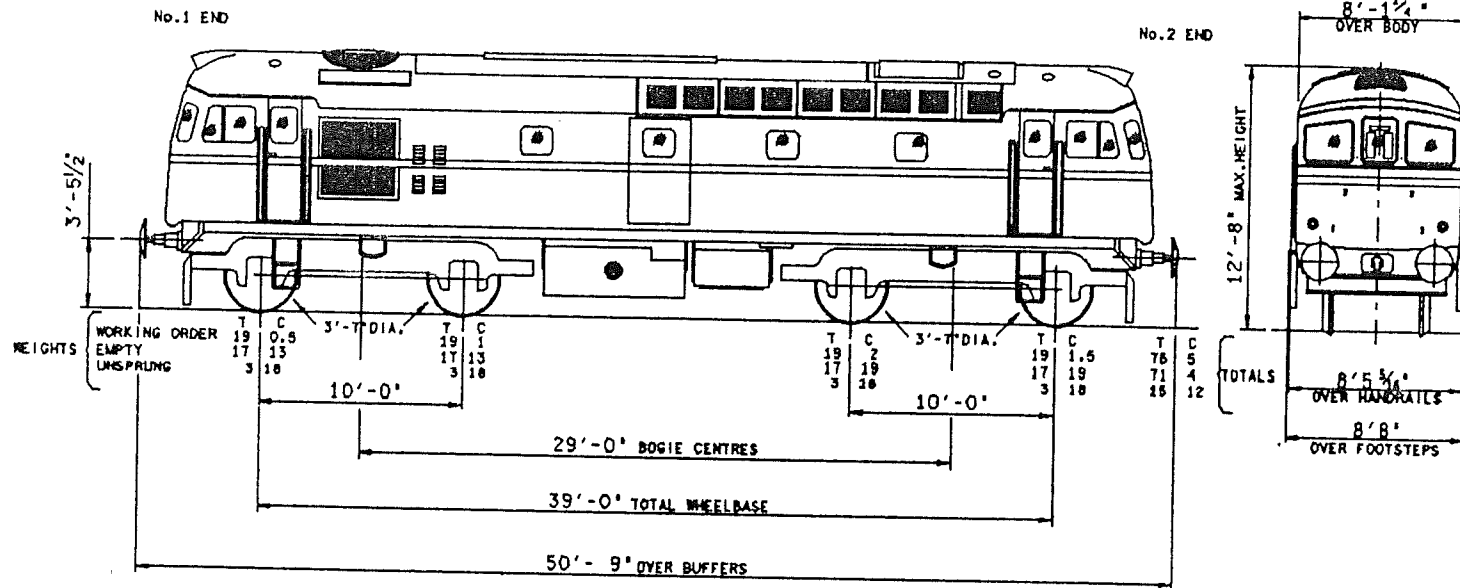
1550 H.P. B.R.C.W. TYPE 3 B-B DIESEL ELECTRIC LOCOMOTIVE.
FITTED FOR PUSH/PULL
CLASS 33/1

33-1aX

1550 H.P.B.R.C.W.TYPE 3 B-B DIESEL ELECTRIC LOCOMOTIVE.

CLASS 33/2

33-2a X



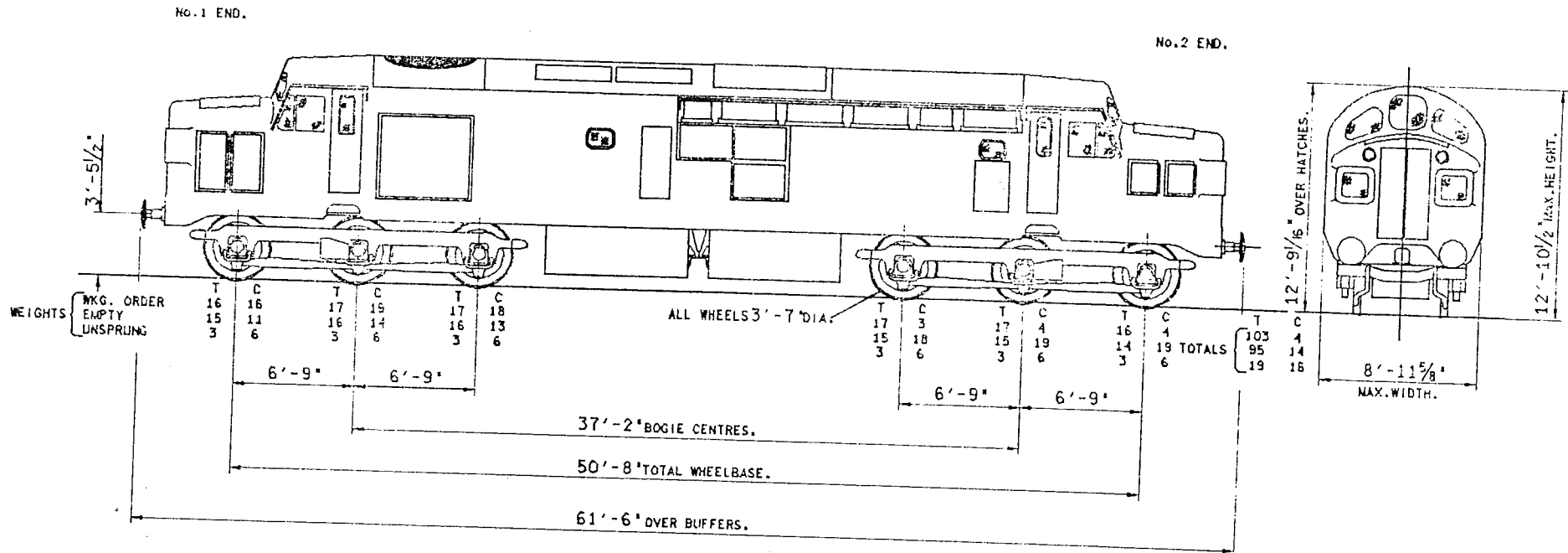
ENGINE	MAKE & TYPE	SULZER 8LDA 28	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO.AIR	
MAIN GENERATOR	No. OF CYLS. & CYCLE	8 CYLS.4 STROKE	MULTIPLE WORKING	FOR TRAIN	FOR TRAIN	AUTO.AIR & AIR CONT.VAC.	
	MAX.CONT.RATED OUTPUT	1550 H.P.AT 750 R.P.M.		COUPLING SYMBOL	BRAKE FORCE	% OF LOCO WEIGHT	77%
TRACTION MOTORS	MAKE & TYPE	CROMPTON PARKINSON CG 391B1	MINIMUM RADIUS	IN WORKING ORDER			
	MAKE & TYPE	CROMPTON PARKINSON C 171C2		CURVES	HORIZONTAL WITHOUT GAUGE WIDENING	BLUE STAR	4 CHAINS
	No	FOUR.			HORIZONTAL WITH WINS.GAUGE WIDENING	3.3 CHAINS	11 CHAINS
TYPE OF SUSPENSION	AXLE.	VERTICAL CONVEX	VERTICAL CONCAVE		11 CHAINS.		
PERFORMANCE	TYPE OF GEAR DRIVE	SINGLE REDUCTION,	TRAIN HEATING	ELECTRIC GENERATOR MAKE & TYPE	CROMPTON PARKINSON CAG 392 A1		
	MAX TRACTIVE EFFORT	45,000LB.AT 26% ADHESION		EQUIPMENT	DRIVEN BY	ENGINE	
	CONT.TRACTIVE EFFORT	AT 2620 AMPS,MAIN GENERATOR			CONT. OUTPUT	235 K.W. AT 750 VOLTS	
	RAIL H.P.AT CONT.RATING	26,000LB.AT 17.5 M.P.H.			TANK CAPACITIES	ENGINE FUEL	750 GALLS.
FULL ENGINE OUTPUT	AT 1760 AMPS,MAIN GENERATOR						
WEIGHT	1215 H.P.						
AVAILABLE BETWEEN 10 & 80MPH							
DATA PANEL	BRAKE FORCE	76 TONNES					
	E.T.H.INDEX	35 TONNES					
	ROUTE AVAILABILITY	48					
	MAX.SPEED	6.					
		60 M.P.H.					

FEB.1989

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-00 X

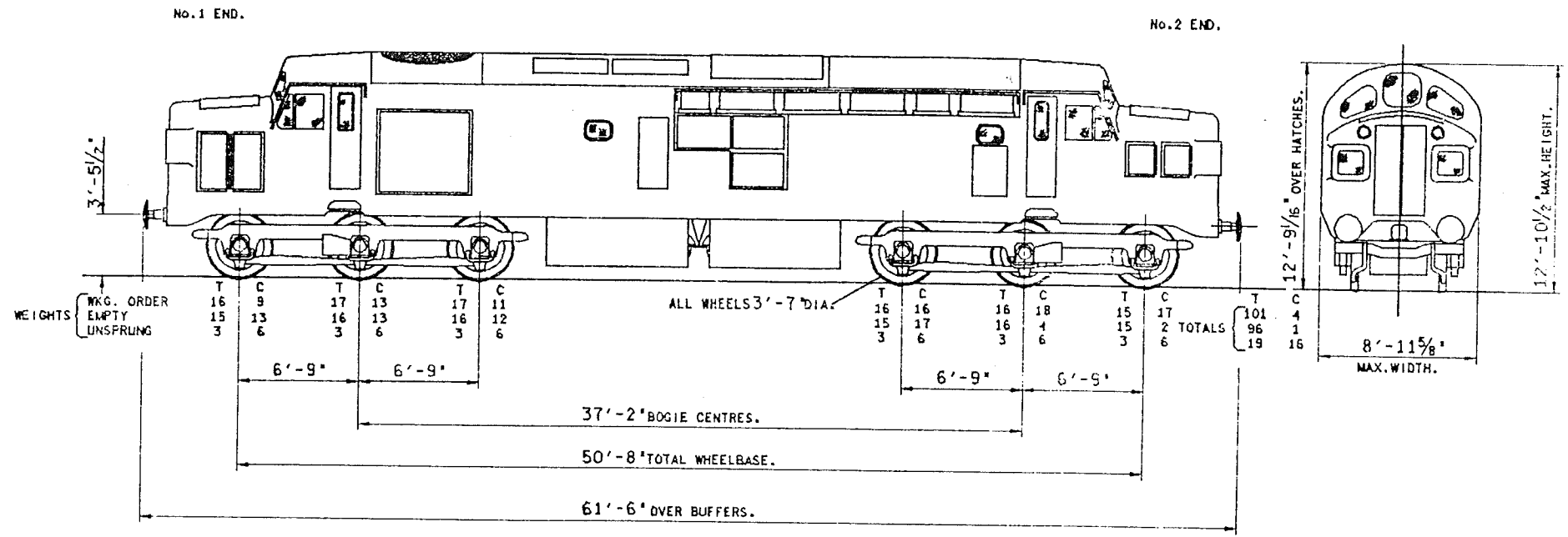


ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 12 CSVT	BRAKING	TYPE	{ FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR.
MAIN GENERATOR	NO. OF CYLS. & CYCLE	12 CYL. 4 STROKE.		BRAKE FORCE	{ % OF LOCO WEIGHT IN WORKING ORDER	AUTO AIR & AIR CONT. VAC
	MAX. CONT. RATED OUTPUT	1750 H.P. AT 850 R.P.M.	MULTIPLE WORKING	COUPLING SYMBOL		82%
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC TYPE 822/10G	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE		BLUE STAR.
	NO	ENGLISH ELECTRIC EE538/A.	CURVES			4 CHAINS.
	TYPE OF SUSPENSION	SIX.	TRAIN HEATING	BOILER MAKE & TYPE		3.8 CHAINS.
	TYPE OF GEAR DRIVE	NOSE.	EQUIPMENT	STEAMING CAPACITY		8 CHAINS.
PERFORMANCE	MAX TRACTIVE EFFORT	SINGLE REDUCTION				8 CHAINS.
	CONT. TRACTIVE EFFORT	55500 LB. AT 24% ADHESION	TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER		CLAYTON RO 2500 MK.1
	AT 2600 AMPS. MAIN GENERATOR.	AT 1800 AMPS. MAIN GENERATOR.				2500 LB./HOUR
	35000 LB. AT 13.6 M.P.H.	1250 H.P.				890 GALLONS
	AT 1800 AMPS. MAIN GENERATOR.	AVAILABLE BETWEEN 10 & 79 M.P.H.				800 GALLONS
DATA PANEL	RAIL H.P. AT CONT. RATING	1250 H.P.				
	FULL ENGINE OUTPUT	105 TONNES				
	WEIGHT	50 TONNES				
	BRAKE FORCE	-				
	E.T.H. INDEX	5.				
	ROUTE AVAILABILITY	80 M.P.H.				
	MAX. SPEED					

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-0d X



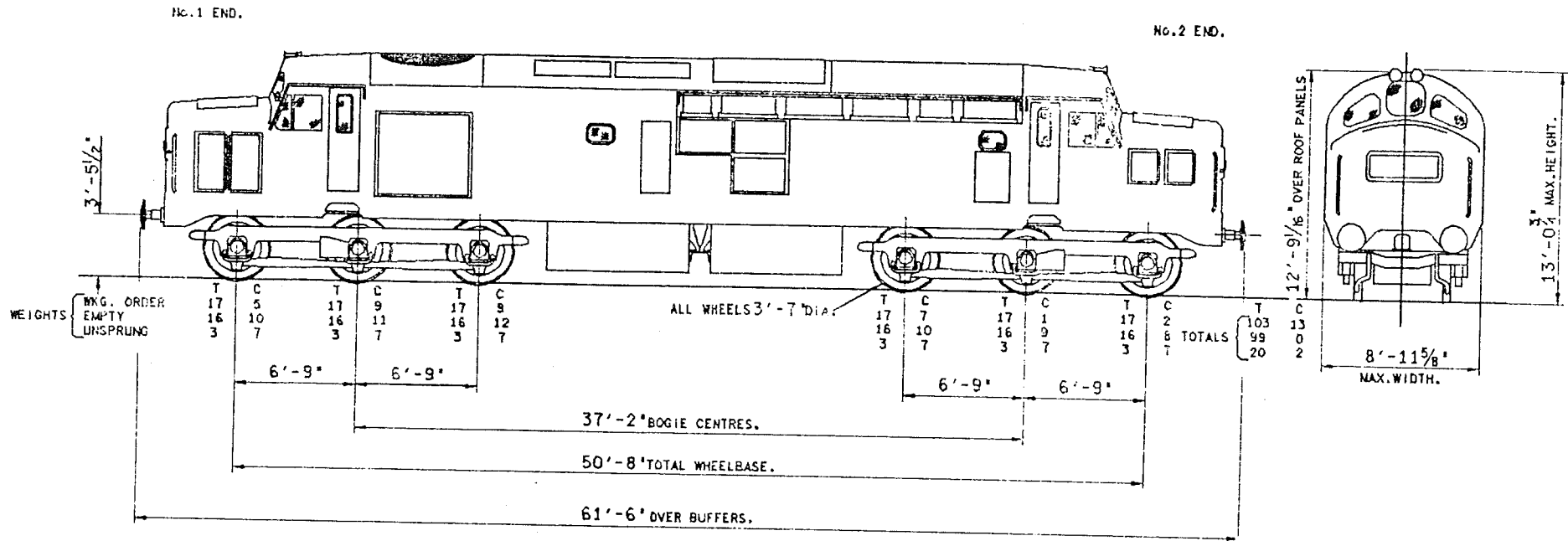
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR.
MAIN GENERATOR	MAX. CONT. RATED OUTPUT	1750 H.P. AT 850 R.P.M.		BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	AUTO AIR & AIR CONT. VAC
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC EE538/A.	MULTIPLE WORKING	COUPLING SYMBOL	83.6%
	No.	SIX.	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING	BLUE STAR. 4 CHAINS.
	TYPE OF SUSPENSION	NOSE.	CURVES	{ VERTICAL CONVEX VERTICAL CONCAVE	3.8 CHAINS. 8 CHAINS.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION	TRAIN HEATING	EQUIPMENT	8 CHAINS.
	MAX TRACTIVE EFFORT	55500 LB. AT 24.5% ADHESION			NOT FITTED
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 2600 AMPS. MAIN GENERATOR. 35000 LB. AT 13.6 M.P.H.	TANK CAPACITY	ENGINE FUEL	890 GALLONS
	RAIL H.P. AT CONT. RATING	1250 H.P.			
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10 & 79 M.P.H.			
DATA PANEL	WEIGHT	105 TONNES			
	BRAKE FORCE	50 TONNES			
	E.T.H. INDEX				
	ROUTE AVAILABILITY	5.			
	MAX. SPEED	80 M.P.H.			

FEB. 1988

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-0e X



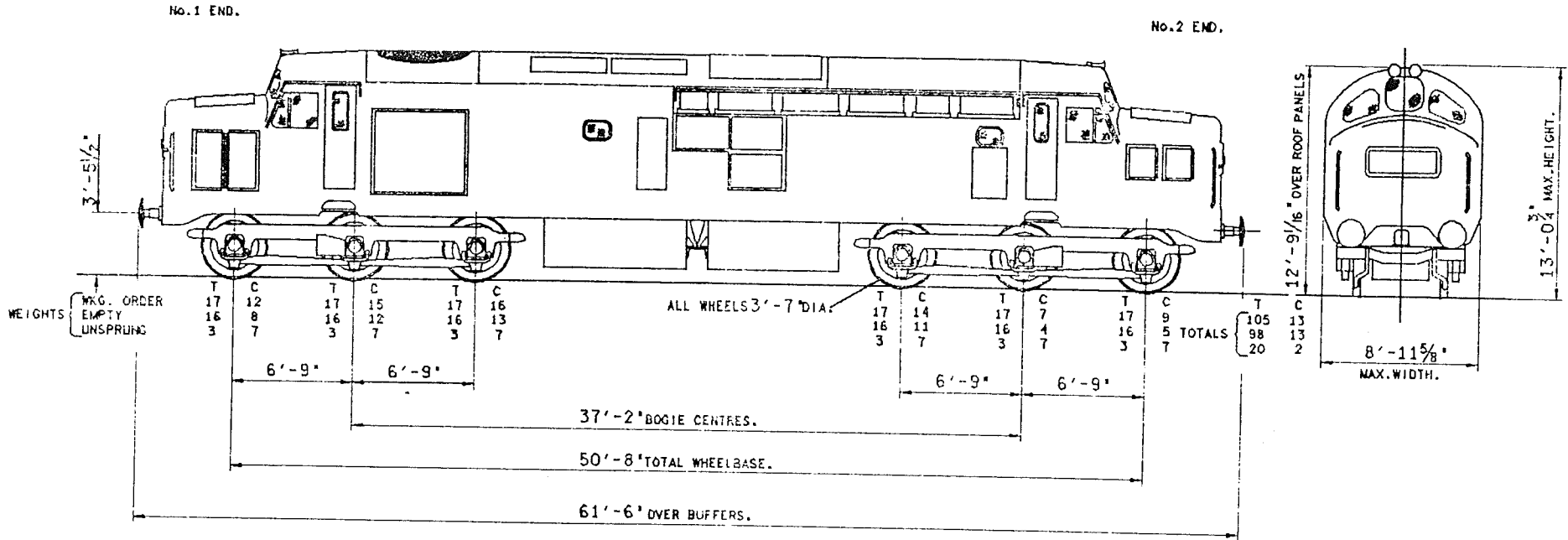
ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 12 CSVT	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC	
MAIN GENERATOR	No. OF CYLS. & CYCLE	12 CYL. 4 STROKE.		FOR TRAIN			
	MAX. CONT. RATED OUTPUT	1750 H.P. AT 850 R.P.M.		BRAKE FORCE	% OF LOCO WEIGHT	81.7%	
	MAKE & TYPE	ENGLISH ELECTRIC TYPE 822/10G			IN WORKING ORDER		
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC EE538/A.	MULTIPLE WORKING	COUPLING SYMBOL		BLUE STAR.	
	No	SIX.				4 CHAINS.	
	TYPE OF SUSPENSION	NOSE.	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4" INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE		3.8 CHAINS.	
	TYPE OF GEAR DRIVE	SINGLE REDUCTION	CURVES				8 CHAINS.
	MAX TRACTIVE EFFORT	55500 LB. AT 23.9% ADHESION					8 CHAINS.
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 2600 AMPS. MAIN GENERATOR.	TRAIN HEATING	EQUIPMENT		NOT FITTED	
		35000 LB. AT 13.6 M.P.H.					
	RAIL H.P. AT CONT. RATING	AT 1800 AMPS. MAIN GENERATOR.	TANK CAPACITY	ENGINE FUEL		890 GALLONS	
	FULL ENGINE OUTPUT	1250 H.P.					
DATA PANEL	WEIGHT	AVAILABLE BETWEEN 10 & 79 M.P.H.					
	BRAKE FORCE	105 TONNES					
	E.T.H. INDEX	50 TONNES					
	ROUTE AVAILABILITY	-					
	MAX. SPEED	5.					
		80 M.P.H.					

FEB. 1988

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-0g X



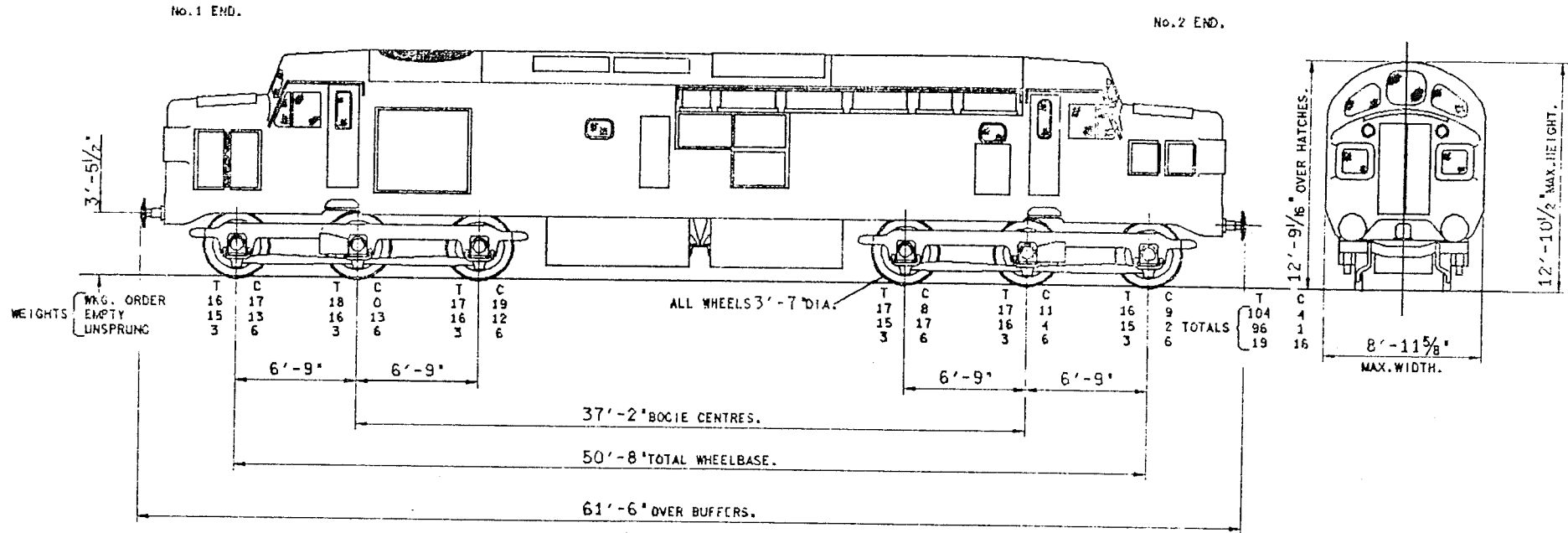
ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 12 CSVT	BRAKING	TYPE	{ FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR.
MAIN GENERATOR	No. OF CYLS. & CYCLE	12-CYL. 4 STROKE.	MULTIPLE WORKING	BRAKE FORCE	{ % OF LOCO WEIGHT IN WORKING ORDER	AUTO AIR & AIR CONT. VAC
	MAX. CONT. RATED OUTPUT	1750 H.P. AT 850 R.P.M.		COUPLING SYMBOL		80.1%
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC EE538/A.	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING	HORIZONTAL WITH 3/4 INS. GAUGE WIDENING	BLUE STAR.
	NO	SIX.				VERTICAL CONVEX
PERFORMANCE	TYPE OF SUSPENSION	NOSE.	CURVES	TRAIN HEATING EQUIPMENT		8 CHAINS.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION		BOILER MAKE & TYPE	STEAMING CAPACITY	8 CHAINS.
	MAX TRACTIVE EFFORT	55500 LB. AT 23.5% ADHESION	TANK CAPACITY	ENGINE FUEL	BOILER FUEL	CLAYTON RO 2500 MK.1 OR MK
	CONT. TRACTIVE EFFORT	35000 LB. AT 13.6 M.P.H.				BOILER WATER
DATA PANEL	RAIL H.P. AT CONT. RATING	1250 H.P.			890 GALLONS	
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10 & 79 M.P.H.			800 GALLONS	
	WEIGHT	105 TONNES				
	BRAKE FORCE	50 TONNES				
	E.T.H. INDEX	-				
	ROUTE AVAILABILITY	5.				
	MAX. SPEED	80 M.P.H.				

FEB. 1988

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-0j X



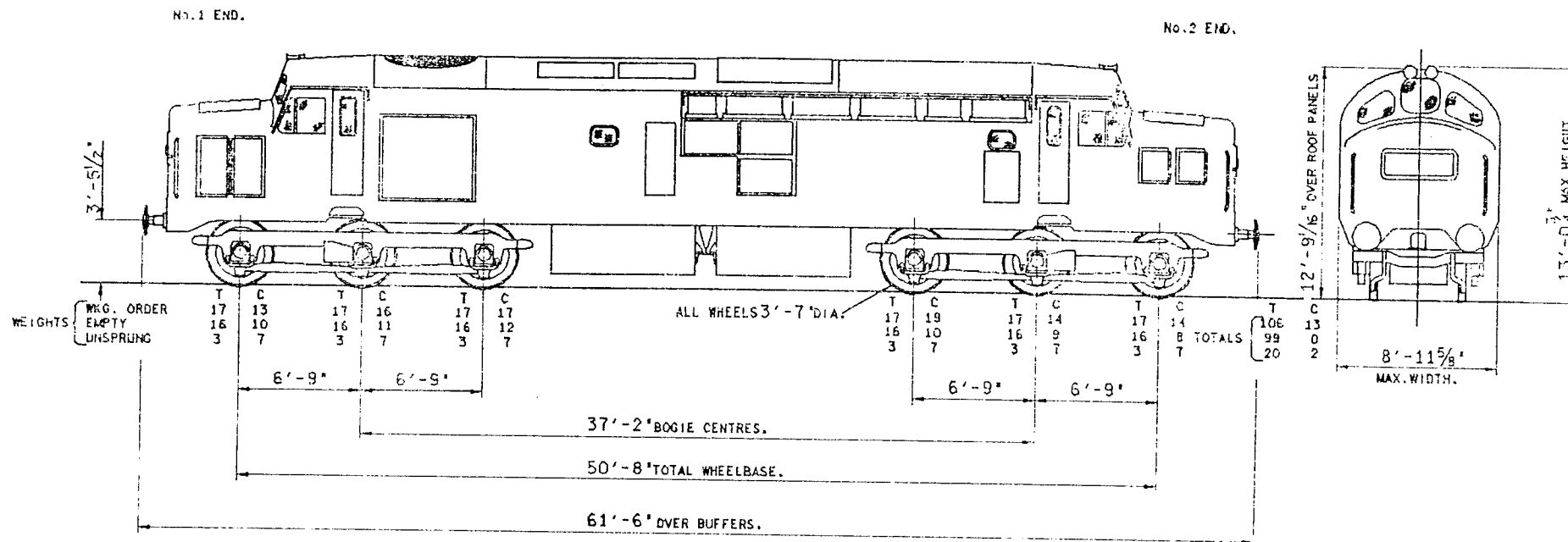
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC
MAIN GENERATOR	MAX. CONT. RATED OUTPUT	1750 H.P. AT 850 R.P.M.		BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	81.19%
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC TYPE 822/10G	MULTIPLE WORKING COUPLING SYMBOL		BLUE STAR.
	MAKE & TYPE	ENGLISH ELECTRIC EE536/A.			4 CHAINS.
	No	SIX.	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING	3.8 CHAINS.
	TYPE OF SUSPENSION	NOSE.	CURVES	{ VERTICAL CONVEX VERTICAL CONCAVE	8 CHAINS.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION			8 CHAINS.
	MAX TRACTIVE EFFORT	55500 LB. AT 24.5% ADHESION	TRAIN HEATING EQUIPMENT		NOT FITTED
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 2600 AMPS. MAIN GENERATOR. 35000 LB. AT 13.6 M.P.H. AT 1800 AMPS. MAIN GENERATOR.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS.
	RAIL H.P. AT CONT. RATING	1250 H.P.			
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10 & 79 M.P.H.			
DATA PANEL	WEIGHT	105 TONNES			
	BRAKE FORCE	50 TONNES			
	E.T.H. INDEX	-			
	ROUTE AVAILABILITY	5.			
	MAX. SPEED	80 M.P.H.			

FEB. 1988

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-0k X



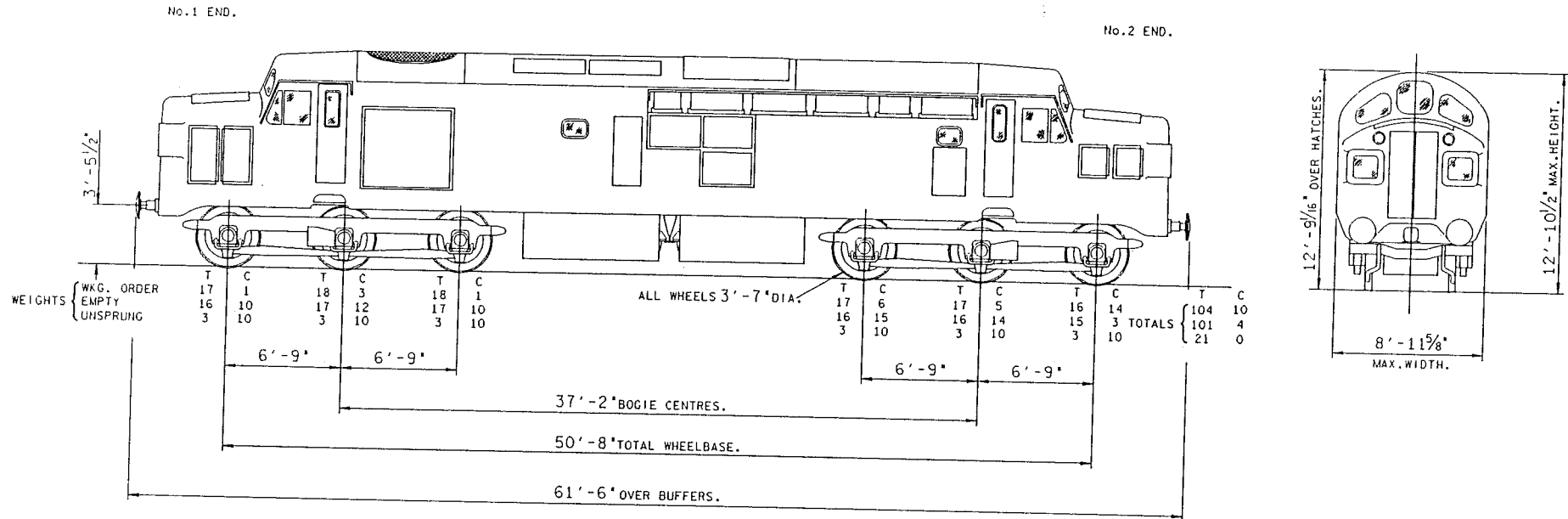
ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 12 CSVT	TYPE	FOR LOCO	STRAIGHT AIR & AUTO AIR.
	NO. OF CYLS. & CYCLE	12 CYL. 4 STROKE.		FOR TRAIN	AUTO AIR & AIR CONT. VAC
MAIN GENERATOR	MAX. CONT. RATED OUTPUT	1750 H.P. AT 850 R.P.M.	BRAKE FORCE	% OF LOCO WEIGHT	79.40%
	MAKE & TYPE	ENGLISH ELECTRIC TYPE 822/106		IN WORKING ORDER	
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC EE538/A.	MULTIPLE WORKING	COUPLING SYMBOL	BLUE STAR.
	NO.	SIX.		HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS.
	TYPE OF SUSPENSION	NOSE.		HORIZONTAL WITH INS. GAUGE WIDENING	3.8 CHAINS.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION	MINIMUM RADIUS	VERTICAL CONVEX	8 CHAINS.
	MAX TRACTIVE EFFORT	55500 LB. AT 23.9% ADHESION	CURVES	VERTICAL CONCAVE	8 CHAINS.
PERFORMANCE	CONT. TRACTIVE EFFORT	35000 LB. AT 13.6 M.P.H.	TRAIN HEATING		NOT FITTED
		AT 1800 AMPS. MAIN GENERATOR.	EQUIPMENT		
	RAIL H.P. AT CONT. RATING	1250 H.P.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10 & 79 M.P.H.			
DATA PANEL	WEIGHT	105 TONNES			
	BRAKE FORCE	50 TONNES			
	E.T.H. INDEX	-			
	ROUTE AVAILABILITY	5.			
	MAX. SPEED	80 M.P.H.			

FEB. 1938

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-3a X



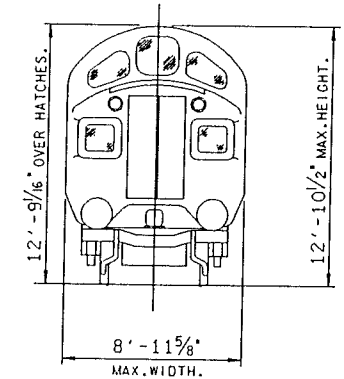
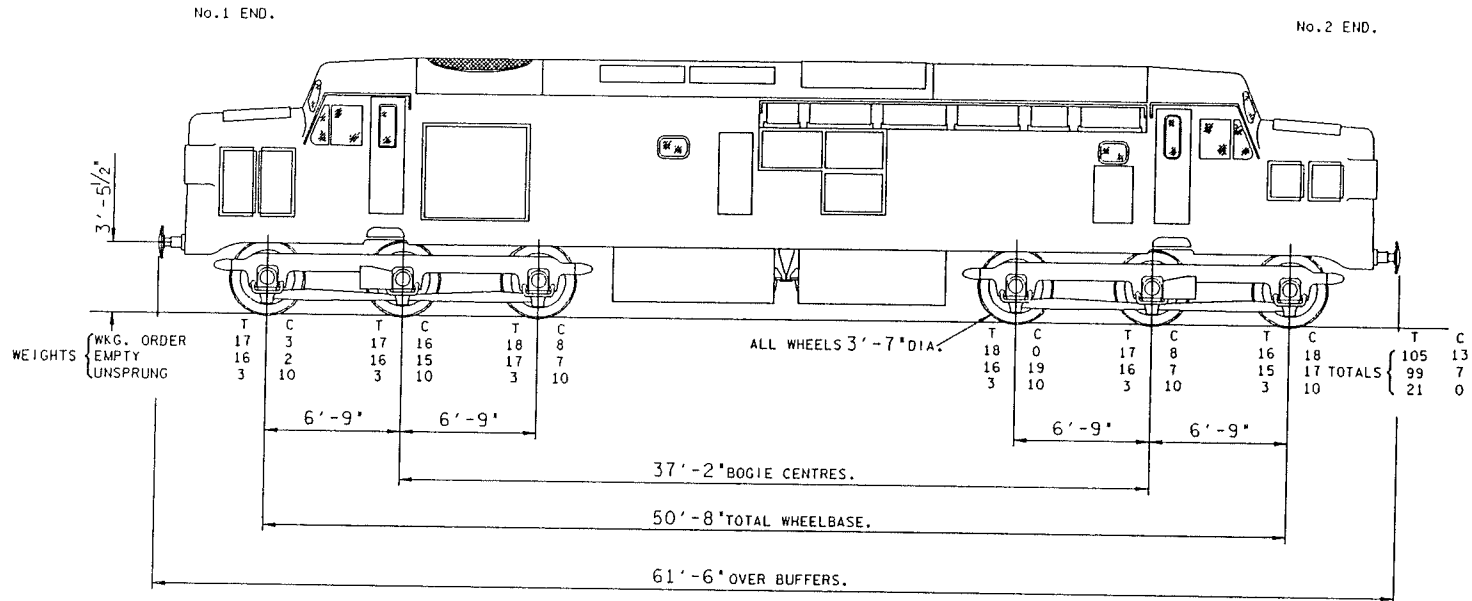
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR.
MAIN GENERATOR	{ MAX. CONT. RATED OUTPUT MAKE & TYPE	1750 H.P. AT 850 R.P.M. ENGLISH ELECTRIC TYPE 822/10G		{ BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	AUTO AIR & AIR CONT. VAC
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	ENGLISH ELECTRIC EE538/A. SIX. NOSE. SINGLE REDUCTION 56180 LB. AT 24% ADHESION AT 2600 AMPS. MAIN GENERATOR.	MULTIPLE WORKING COUPLING SYMBOL		81%
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN GENERATOR. 1254 H.P.	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	BLUE STAR. 4 CHAINS. 3.8 CHAINS. 8 CHAINS. 8 CHAINS.
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	AVAILABLE BETWEEN 7 & 68 M.P.H. 106 TONNES 50 TONNES - 5. 80 M.P.H.	TRAIN HEATING EQUIPMENT		NOT FITTED
			TANK CAPACITY	ENGINE FUEL	890 GALLONS.

JAN. 1992

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-3b	X
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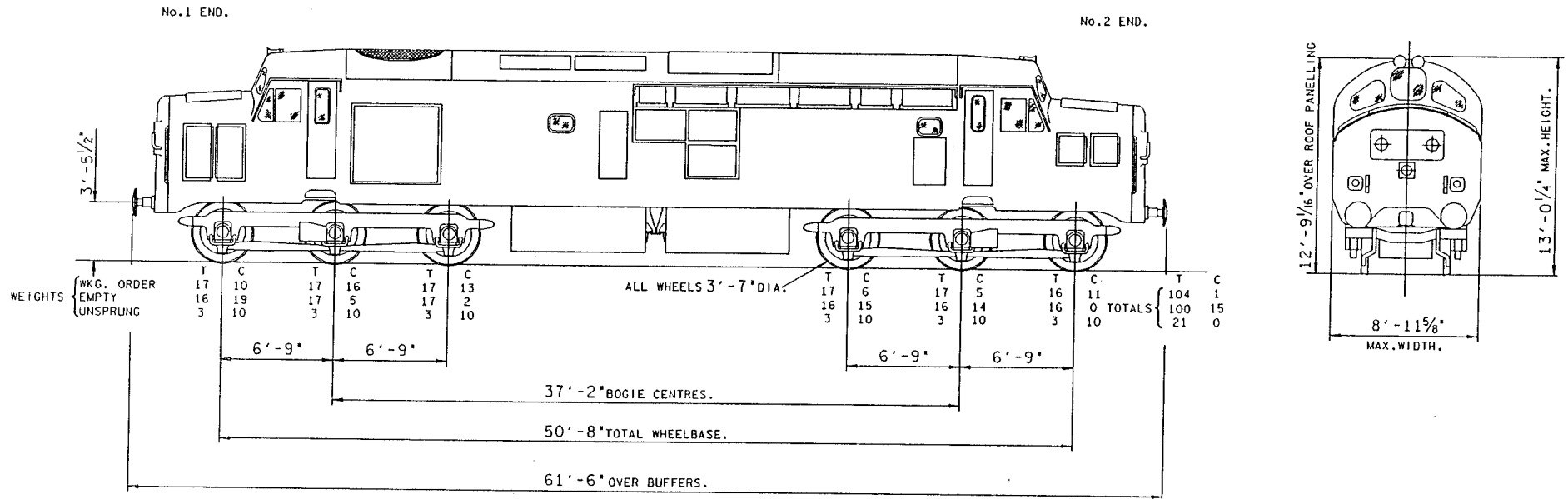
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE. 1750 H.P. AT 850 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC 81.1%
MAIN GENERATOR	{ MAKE & TYPE	ENGLISH ELECTRIC TYPE 822/10G	MULTIPLE WORKING COUPLING SYMBOL		BLUE STAR. 4 CHAINS.
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	ENGLISH ELECTRIC EE538/A. SIX. NOSE. SINGLE REDUCTION 56800 LB. AT 24% ADHESION	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	8 CHAINS. 8 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN GENERATOR. 1254 H.P. AVAILABLE BETWEEN 7 & 68 M.P. H.	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	107 TONNES 50 TONNES - 5. 80 M.P.H.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS.

JAN. 1992

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-30 X



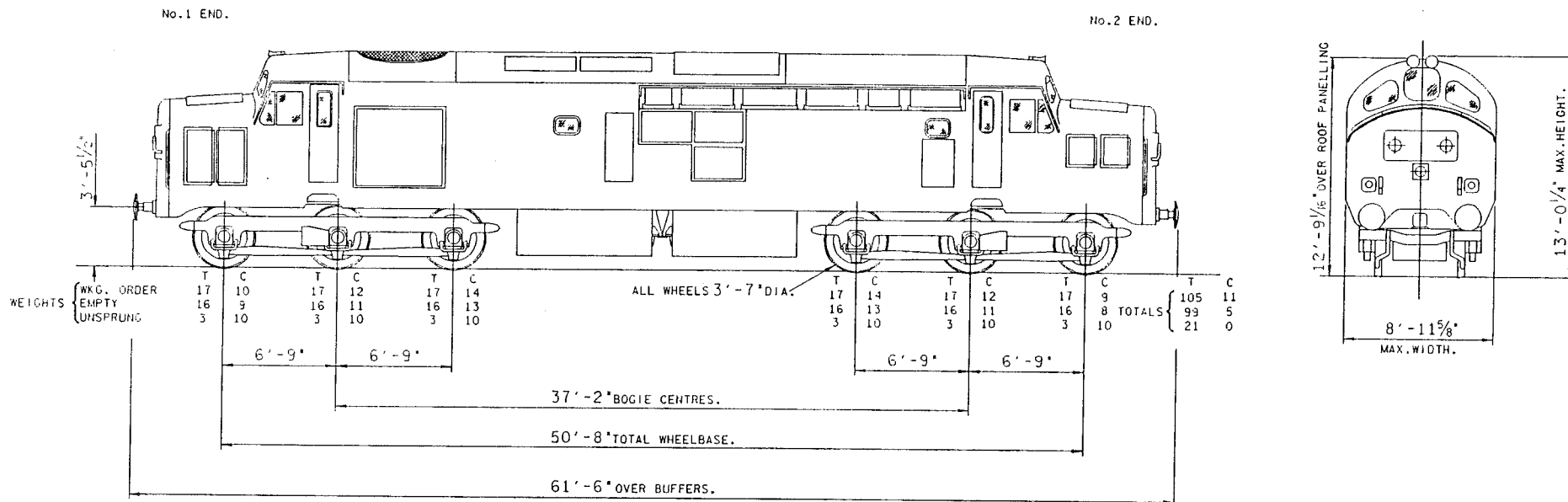
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE. 1750 H.P. AT 850 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC 81.4%
MAIN GENERATOR	{ MAKE & TYPE	ENGLISH ELECTRIC TYPE 822/10G	MULTIPLE WORKING	COUPLING SYMBOL	BLUE STAR.
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	ENGLISH ELECTRIC EE538/A. SIX. NOSE. SINGLE REDUCTION 55940 LB. AT 24% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.8 CHAINS. 8 CHAINS. 8 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 2600 AMPS. MAIN GENERATOR. 41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN GENERATOR. 1254 H.P.	TRAIN HEATING	EQUIPMENT	NOT FITTED
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	AVAILABLE BETWEEN 7 & 68 M.P.H. 106 TONNES 50 TONNES - 5. 80 M.P.H.	TANK CAPACITY	ENGINE FUEL	890 GALLONS.

JAN. 1992

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-3d X



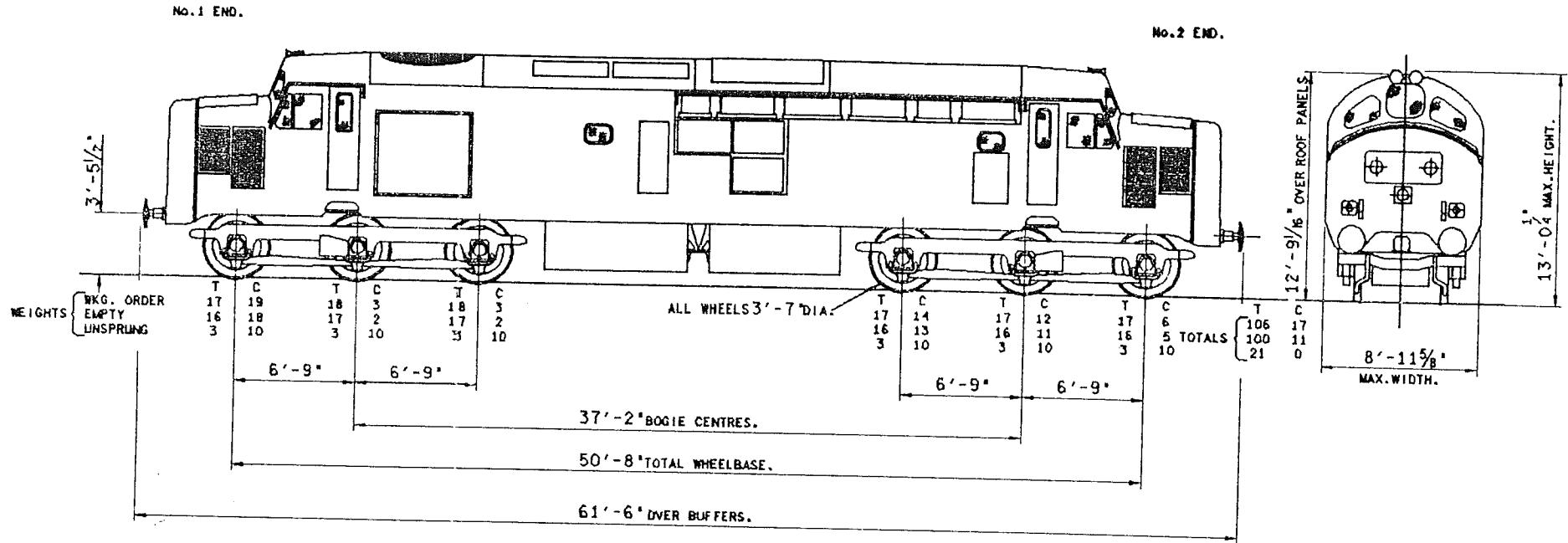
ENGINE	{ MAKE & TYPE	ENGLISH ELECTRIC 12 CSVT	BRAKING	{ TYPE { FOR LOCO	STRAIGHT AIR & AUTO AIR.
	{ NO. OF CYLS. & CYCLE	12 CYL. 4 STROKE.		{ FOR TRAIN	AUTO AIR & AIR CONT. VAC
MAIN GENERATOR	{ MAX. CONT. RATED OUTPUT	1750 H.P. AT 850 R.P.M.		{ BRAKE FORCE { % OF LOCO WEIGHT	80.2%
	{ MAKE & TYPE	ENGLISH ELECTRIC TYPE 822/10G	MULTIPLE WORKING	{ IN WORKING ORDER	
TRACTION MOTORS	{ MAKE & TYPE	ENGLISH ELECTRIC EE538/A.		{ COUPLING SYMBOL	BLUE STAR.
	{ NO	SIX.	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS.
	{ TYPE OF SUSPENSION	NOSE.	CURVES	{ HORIZONTAL WITH 3/4 INS. GAUGE WIDENING	3.8 CHAINS.
	{ TYPE OF GEAR DRIVE	SINGLE REDUCTION		{ VERTICAL CONVEX	8 CHAINS.
	{ MAX TRACTIVE EFFORT	56740 LB. AT 24% ADHESION	TRAIN HEATING	{ VERTICAL CONCAVE	8 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT	AT 2600 AMPS. MAIN GENERATOR.	EQUIPMENT		NOT FITTED
	{ AT 11.4 M.P.H.	41250 LB. AT 11.4 M.P.H.			
	{ AT 1800 AMPS. MAIN GENERATOR.	AT 1800 AMPS. MAIN GENERATOR.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS.
	{ RAIL H.P. AT CONT. RATING	1254 H.P.			
	{ FULL ENGINE OUTPUT	AVAILABLE BETWEEN 7 & 68 M.P. H.			
DATA PANEL	{ WEIGHT	107 TONNES			
	{ BRAKE FORCE	50 TONNES			
	{ E.T.H. INDEX	-			
	{ ROUTE AVAILABILITY	5.			
	{ MAX. SPEED	80 M.P.H.			

JAN. 1992

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-4a X

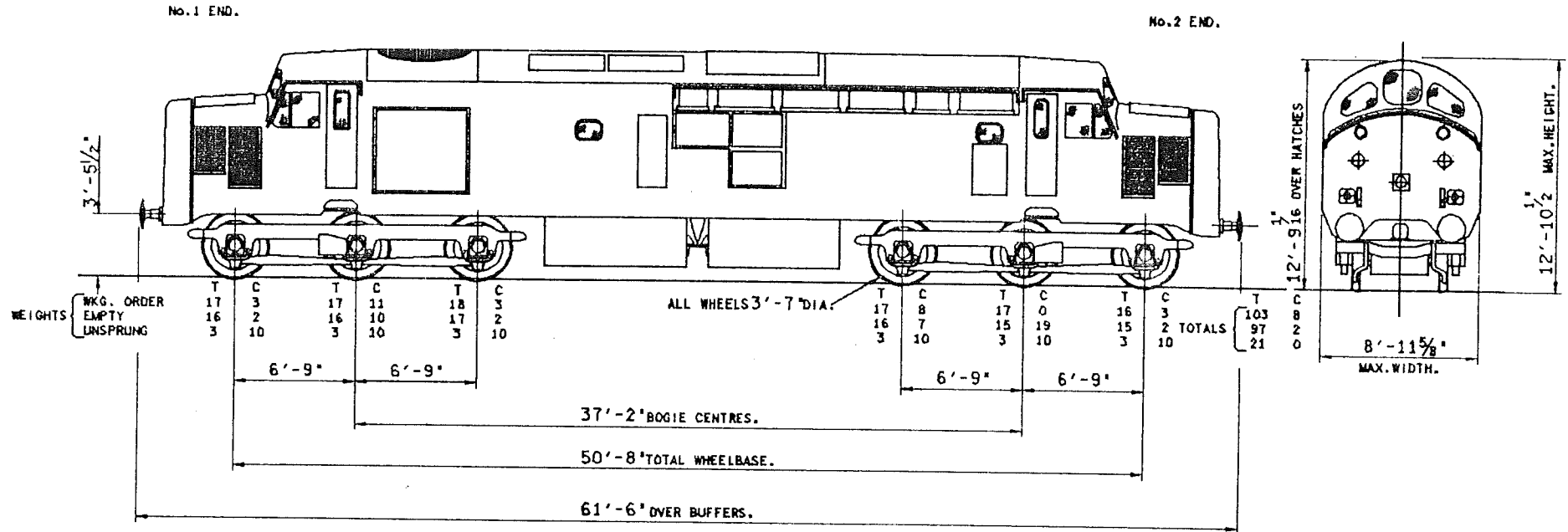


ENGINE	MAKE & TYPE ENGLISH ELECTRIC 12 CSVT	NO. OF CYLS. & CYCLE 12 CYL. 4 STROKE.	MAX. CONT. RATED OUTPUT 1750 H.P. AT 850 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC
MAIN ALTERNATOR	MAKE & TYPE BRUSH BA 1005A			BRAKE FORCE	{ % OF LOCO WEIGHT IN WORKING ORDER	79.2%
TRACTION MOTORS	MAKE & TYPE ENGLISH ELECTRIC EE538/5A	SIX.		MULTIPLE WORKING COUPLING SYMBOL		BLUE STAR. 4 CHAINS.
	NOSE.			MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	3.8 CHAINS. 8 CHAINS. 8 CHAINS.
PERFORMANCE	TYPE OF SUSPENSION NOSE.	SINGLE REDUCTION	MAX TRACTIVE EFFORT 57440 LB. AT 24% ADHESION	TRAIN HEATING EQUIPMENT	ELECTRIC ALTERNATOR	MAKE & TYPE DRIVEN BY CONT. OUTPUT
	TYPE OF GEAR DRIVE		AT 2250 AMPS. MAIN ALTERNATOR	TANK CAPACITY	ENGINE FUEL	BRUSH BAH701A MAIN ENGINE 150KW AT 850 VOLTS 1690 GALLONS
	MAX TRACTIVE EFFORT		41250 LB. AT 11.4 M.P.H.			
	CONT. TRACTIVE EFFORT		AT 1800 AMPS. MAIN ALTERNATOR			
	RAIL H.P. AT CONT. RATING		1254 H.P.			
	FULL ENGINE OUTPUT		AVAILABLE BETWEEN 7 & 68 M.P.H.			
DATA PANEL	WEIGHT		108 TONNES			
	BRAKE FORCE		50 TONNES			
	E.T.H. INDEX		30			
	ROUTE AVAILABILITY		5.			
	MAX. SPEED		80 M.P.H.			

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-5a X

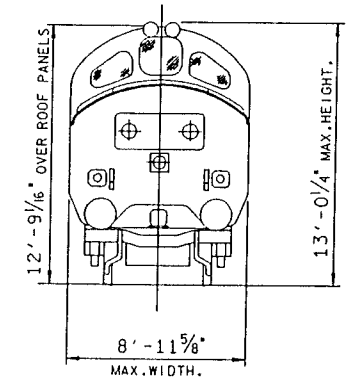
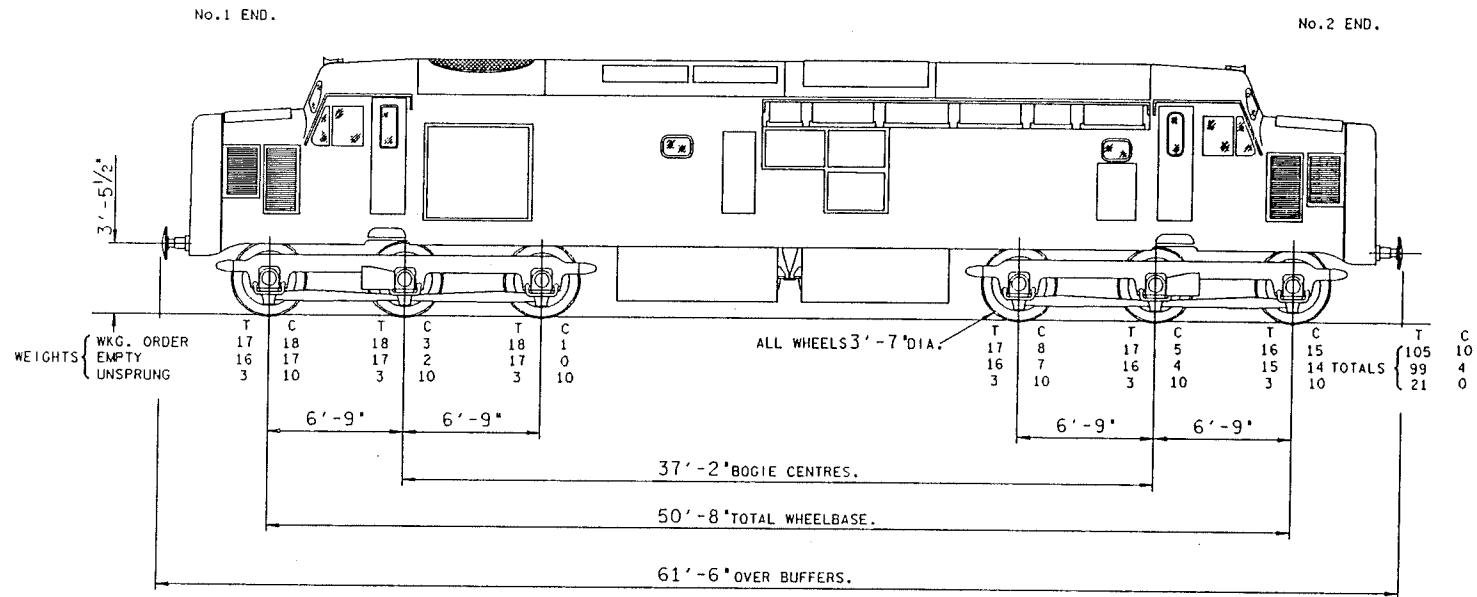


ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE. 1750 H.P. AT 850 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC 81.9%
MAIN ALTERNATOR	MAKE & TYPE	BRUSH BA 1005A	MULTIPLE WORKING	COUPLING SYMBOL	BLUE STAR. 4 CHAINS.
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	ENGLISH ELECTRIC EE538/5A SIX. NOSE. SINGLE REDUCTION 55590 LB. AT 24% ADHESION AT 2250 AMPS. MAIN ALTERNATOR 41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN ALTERNATOR	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	3.8 CHAINS. 8 CHAINS. 8 CHAINS.
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	1254 H.P. AVAILABLE BETWEEN 7 & 68 M.P.H.	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	108 TONNES 50 TONNES - 5. 80 M.P.H.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS.

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-5c X



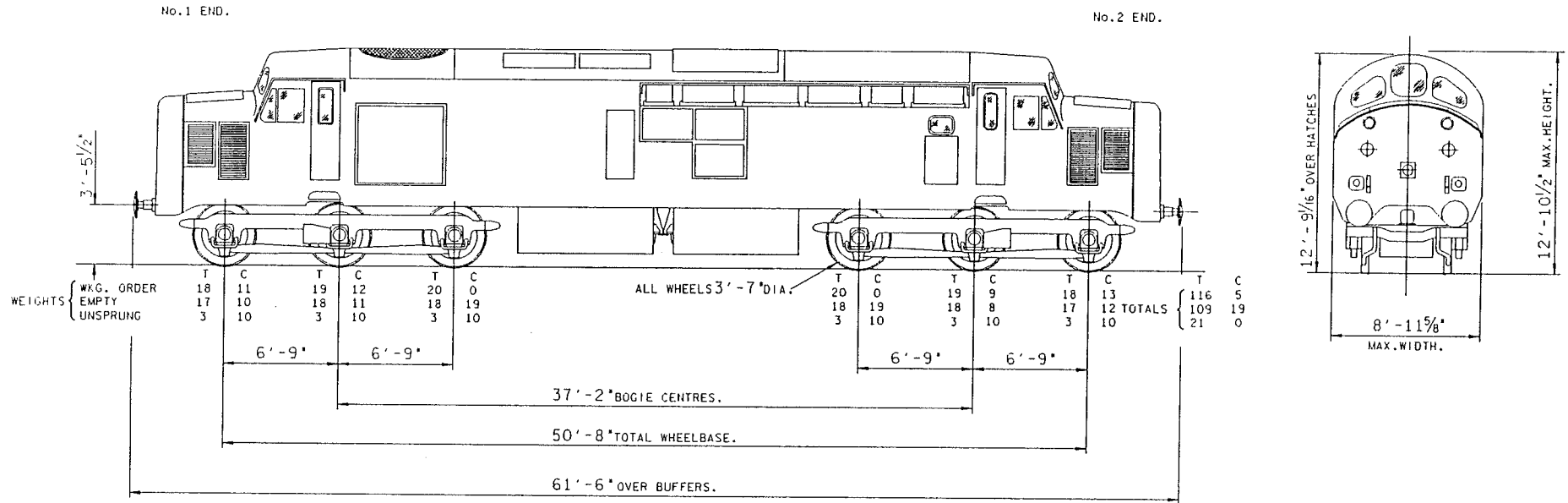
ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 12 CSVT	BRAKING	TYPE { FOR LOCO	STRAIGHT AIR & AUTO AIR.
	No. OF CYLS. & CYCLE	12 CYL.4 STROKE.		FOR TRAIN	AUTO AIR & AIR CONT. VAC
MAIN ALTERNATOR	MAX.CONT.RATED OUTPUT	1750 H.P. AT 850 R.P.M.		BRAKE FORCE { % OF LOCO WEIGHT	80.2%
	MAKE & TYPE	BRUSH BA 1005A		IN WORKING ORDER	
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC EE538/5A	MULTIPLE WORKING COUPLING SYMBOL		BLUE STAR.
	No	SIX.			4 CHAINS.
	TYPE OF SUSPENSION	NOSE.	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING	3.8 CHAINS.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION	CURVES	{ HORIZONTAL WITH 1/2 INS. GAUGE WIDENING	8 CHAINS.
	MAX TRACTIVE EFFORT	56720 LB. AT 24% ADHESION		VERTICAL CONVEX	8 CHAINS.
PERFORMANCE	CONT. TRACTIVE EFFORT	41250 LB. AT 11.4 M.P.H.	TRAIN HEATING EQUIPMENT	VERTICAL CONCAVE	NOT FITTED
	AT 1800 AMPS. MAIN ALTERNATOR	AT 1800 AMPS. MAIN ALTERNATOR			
	RAIL H.P. AT CONT. RATING	1254 H.P.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 7 & 68 M.P.H			
DATA PANEL	WEIGHT	107 TONNES			
	BRAKE FORCE	50 TONNES			
	E.T.H. INDEX	-			
	ROUTE AVAILABILITY	5.			
	MAX. SPEED	80 M.P.H.			

JAN. 1992

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-7a X



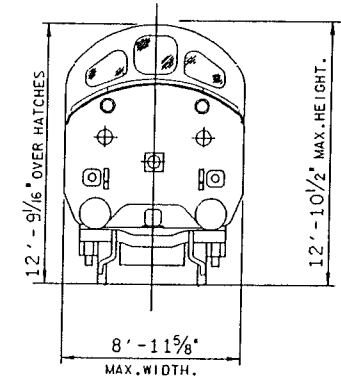
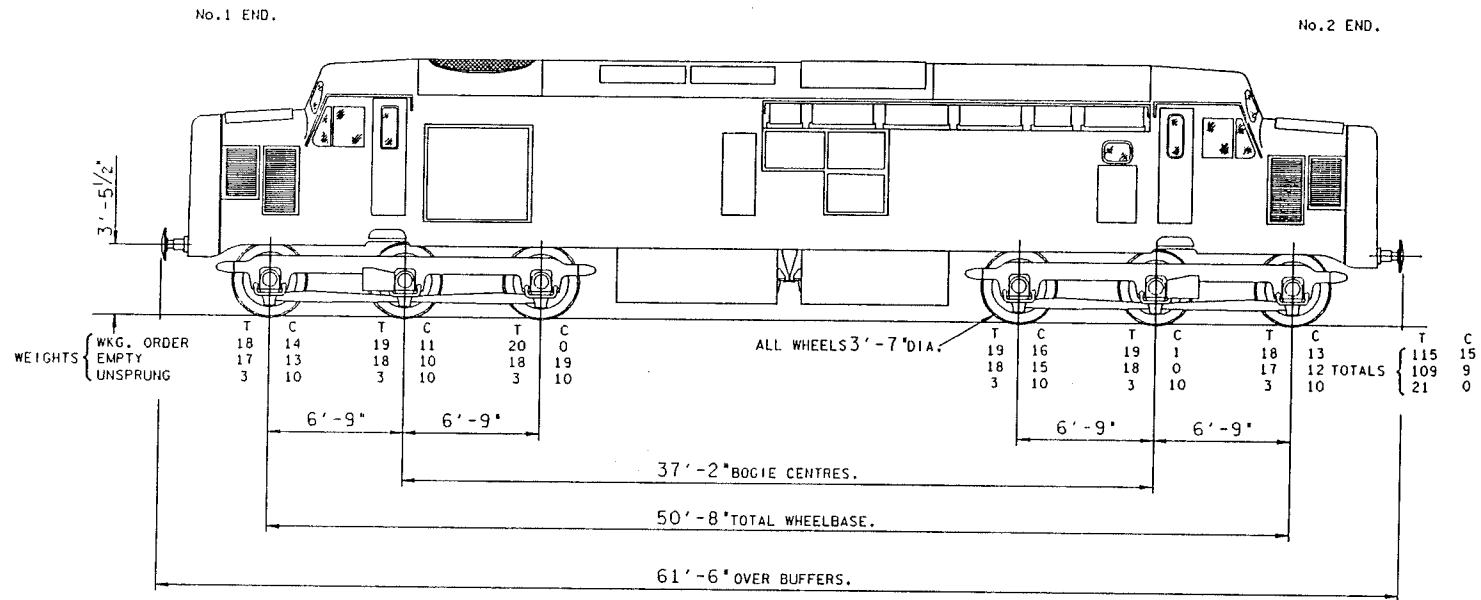
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE. 1750 H.P. AT 850 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC 72.8%
MAIN ALTERNATOR	{ MAKE & TYPE	BRUSH BA 1005A	MULTIPLE WORKING COUPLING SYMBOL		BLUE STAR.
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	ENGLISH ELECTRIC EE538/5A SIX. NOSE. SINGLE REDUCTION 62490 LB. AT 24% ADHESION	MINIMUM RADIUS { HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING CURVES { VERTICAL CONVEX VERTICAL CONCAVE		4 CHAINS. 3.8 CHAINS. 8 CHAINS. 8 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 2420 AMPS. MAIN ALTERNATOR 41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN ALTERNATOR 1254 H.P.	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	118 TONNES 50 TONNES - 7 80 M.P.H.	TANK CAPACITY ENGINE FUEL		1690 GALLONS.

JAN. 1992

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-7b X



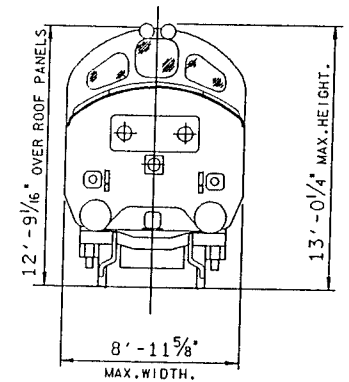
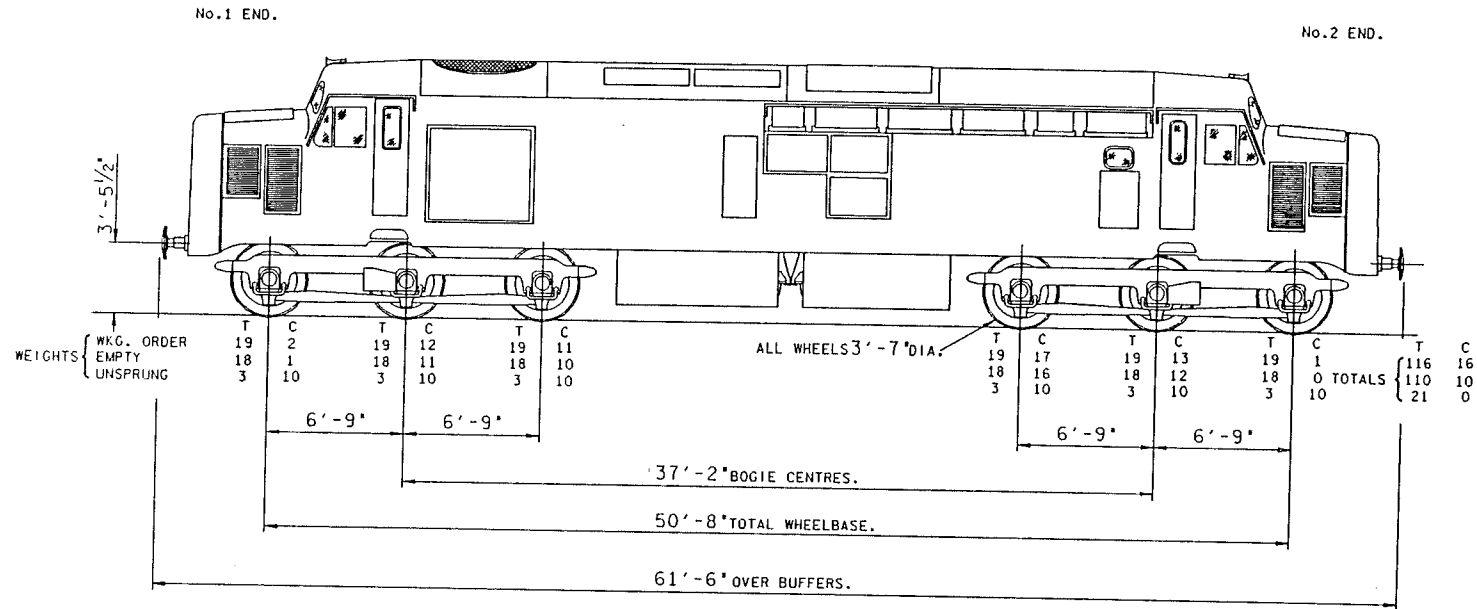
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE. 1750 H.P. AT 850 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC 73.1%
MAIN ALTERNATOR	{ MAKE & TYPE	G.E.C. G564AZ	MULTIPLE WORKING	COUPLING SYMBOL	BLUE STAR.
TRACTION MOTORS	{ No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	SIX. NOSE. SINGLE REDUCTION 62230 LB. AT 24% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.8 CHAINS. 8 CHAINS. 8 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT	41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN ALTERNATOR	TRAIN HEATING	EQUIPMENT	NOT FITTED
DATA PANEL	{ RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	1254 H.P. AVAILABLE BETWEEN 7 & 68 M.P.H. 118 TONNES 50 TONNES - 7 80 M.P.H.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS.

JAN. 1992

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-7c X



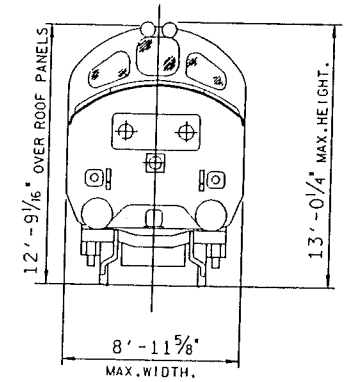
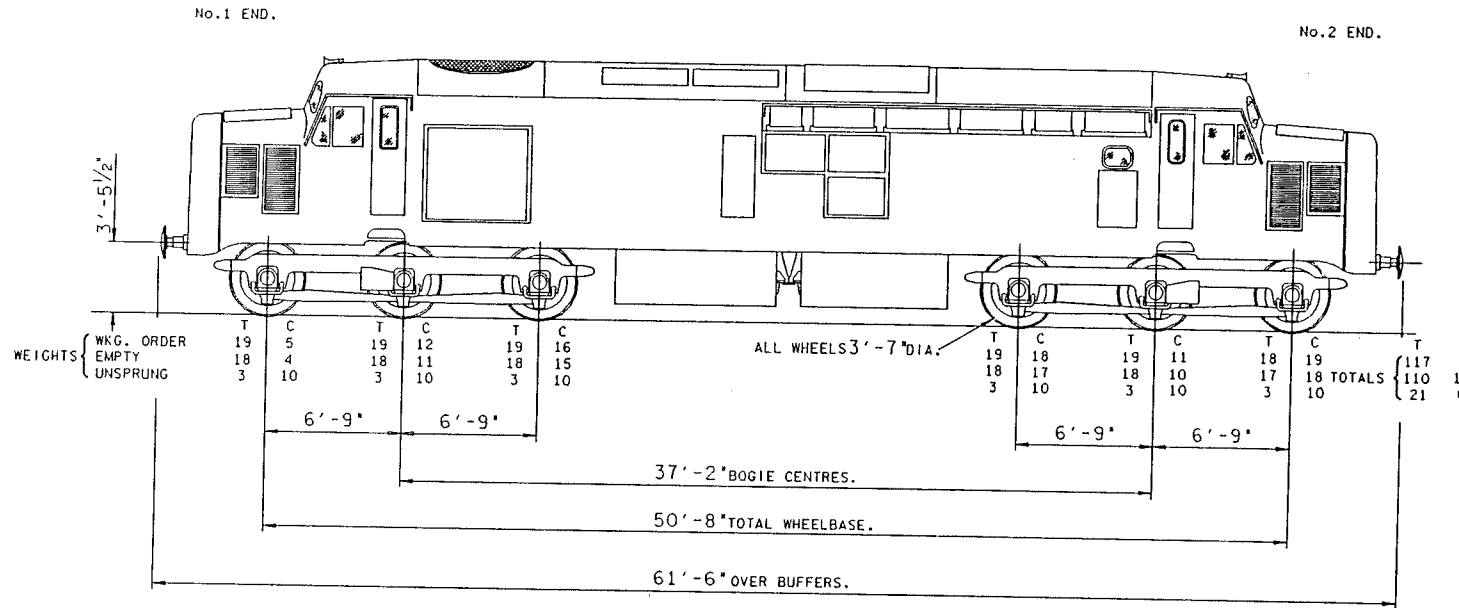
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE. 1750 H.P. AT 850 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC 72.5%
MAIN ALTERNATOR	{ MAKE & TYPE	BRUSH BA 1005A	MULTIPLE WORKING COUPLING SYMBOL	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	BLUE STAR. 4 CHAINS. 3.8 CHAINS. 8 CHAINS. 8 CHAINS.
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	ENGLISH ELECTRIC EE538/5A SIX. NOSE. SINGLE REDUCTION 62790 LB. AT 24% ADHESION	MINIMUM RADIUS CURVES		
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN ALTERNATOR 1254 H.P. AVAILABLE BETWEEN 7 & 68 M.P.H.	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	119 TONNES 50 TONNES - 7. 80 M.P.H.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS

JAN. 1992

1750 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-7d X



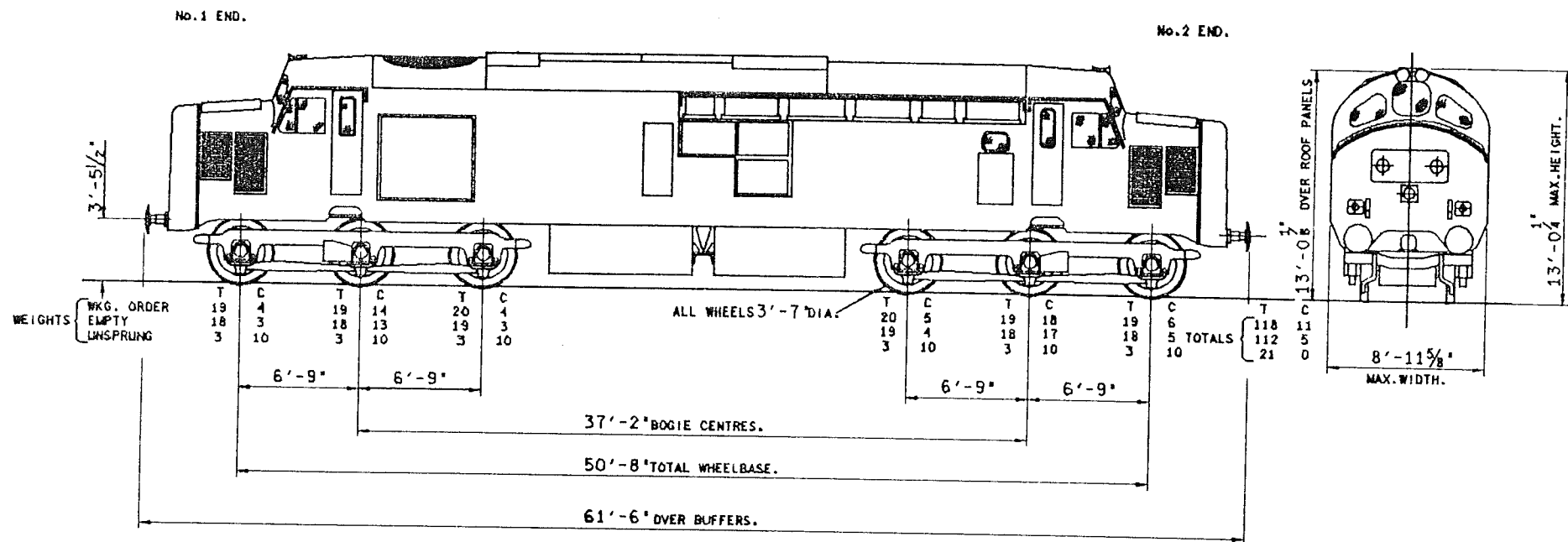
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	ENGLISH ELECTRIC 12 CSVT 12 CYL. 4 STROKE. 1750 H.P. AT 850 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC 72.3%
MAIN ALTERNATOR	{ MAKE & TYPE	G.E.C. G564AZ	MULTIPLE WORKING	COUPLING SYMBOL	BLUE STAR.
TRACTION MOTORS	{ No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	SIX. NOSE. SINGLE REDUCTION 62930 LB. AT 24% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.8 CHAINS. 8 CHAINS. 8 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 2250 AMPS. MAIN ALTERNATOR 41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN ALTERNATOR 1254 H.P. AVAILABLE BETWEEN 7 & 68 M.P.H.	TRAIN HEATING	EQUIPMENT	NOT FITTED
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	119 TONNES 50 TONNES - 7. 80 M.P.H.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS

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1800 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 37

37-9a X

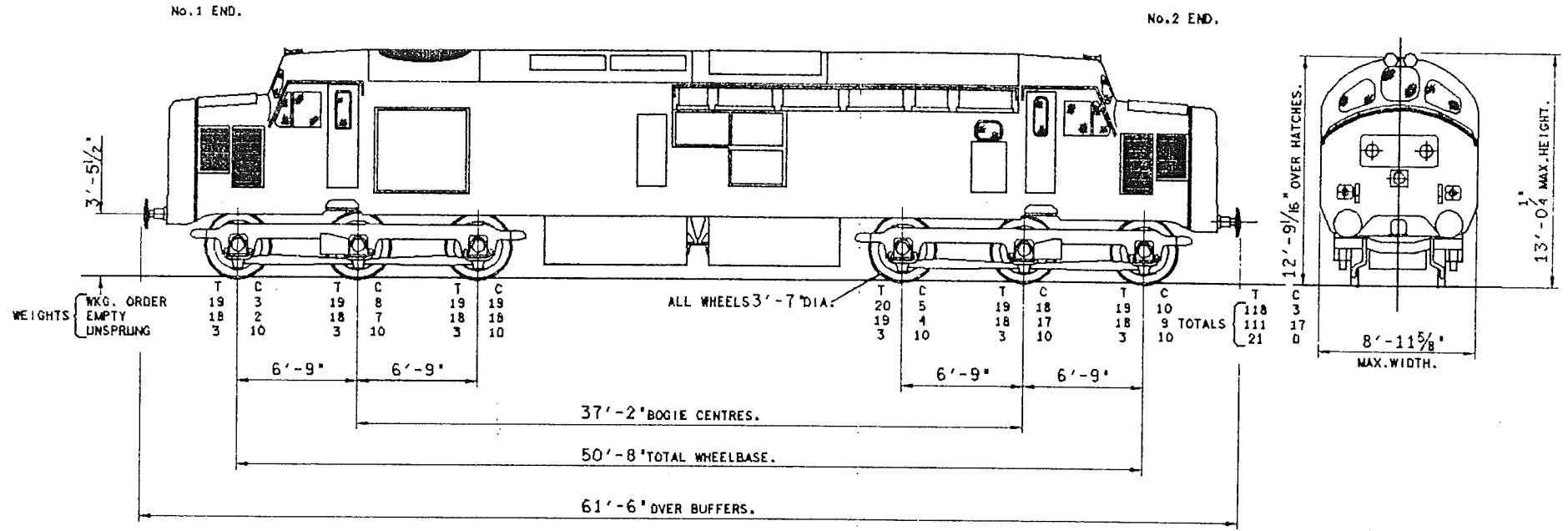


ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE	MIRRELES 6MB275T 6 CYL. 4 STROKE	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC
MAIN ALTERNATOR	MAX. CONT. RATED OUTPUT	1800 H.P. AT 1000 R.P.M.		BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	71.4%
TRACTION MOTORS	MAKE & TYPE	BRUSH BA 1005A	MULTIPLE WORKING	COUPLING SYMBOL	BLUE STAR.
	NO.	SIX.			4 CHAINS.
PERFORMANCE	TYPE OF SUSPENSION	NOSE.	MINIMUM RADIUS	HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	3.8 CHAINS.
	TYPE OF GEAR DRIVE	SINGLE REDUCTION	CURVES		8 CHAINS.
	MAX TRACTIVE EFFORT	63730 LB. AT 24% ADHESION			8 CHAINS.
	CONT. TRACTIVE EFFORT	AT 2420 AMPS. MAIN ALTERNATOR 41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN ALTERNATOR	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	RAIL H.P. AT CONT. RATING	1254 H.P.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS.
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 7 & 80 M.P.H.			
	WEIGHT	120 TONNES			
	BRAKE FORCE	50 TONNES			
	E.T.H. INDEX	-			
	ROUTE AVAILABILITY	7			
	MAX. SPEED	80 M.P.H.			

1800 H.P. E.E. TYPE 3 C-C DIESEL ELECTRIC LOCOMOTIVE.

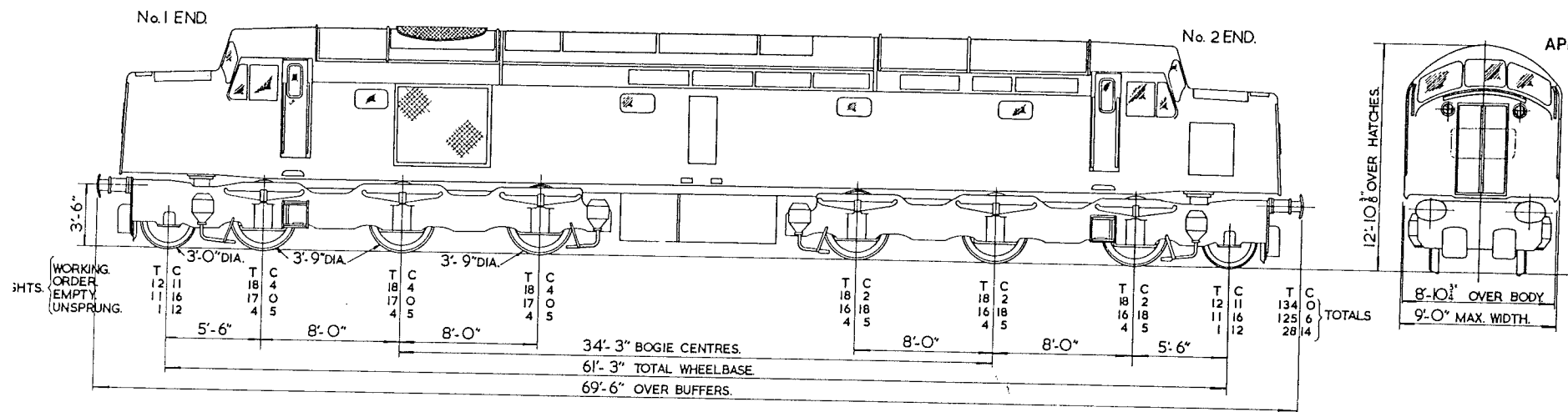
CLASS 37

37-9b X



ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	RUSTON 6RK270T 6 CYL. 4 STROKE 1800 H.P. AT 900 RPM	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR. AUTO AIR & AIR CONT. VAC
MAIN ALTERNATOR	MAKE & TYPE	GEC G564AZ	MULTIPLE WORKING	COUPLING SYMBOL	71.6%
TRACTION MOTORS	MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	ENGLISH ELECTRIC EE538/5A SIX. NOSE. SINGLE REDUCTION 63520 LB. AT 24% ADHESION	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	BLUE STAR. 4 CHAINS. 3.8 CHAINS. 8 CHAINS. 8 CHAINS.
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	41250 LB. AT 11.4 M.P.H. AT 1800 AMPS. MAIN ALTERNATOR 1254 H.P. AVAILABLE BETWEEN 7 & 68 M.P.H.	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	120 TONNES 50 TONNES - 7 80 M.P.H.	TANK CAPACITY	ENGINE FUEL	1690 GALLONS

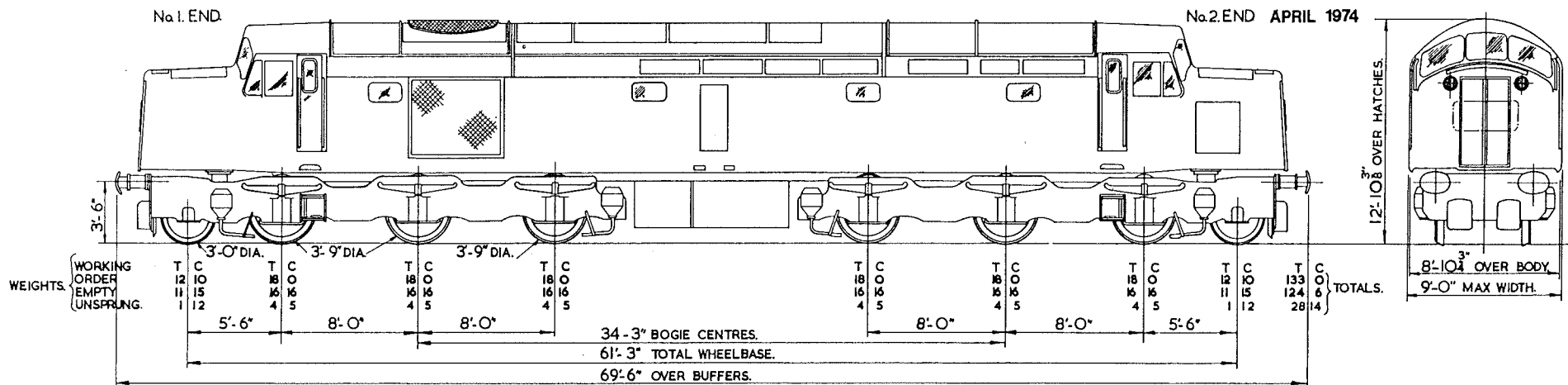
FEB. 1988



ENGINE.	MAKE & TYPE.	ENGLISH ELECTRIC 16 SVT. MK.11.	BRAKING.	TYPE. { FOR LOCO. FOR TRAIN.	STRAIGHT AIR & AUTO AIR. AUTO. AIR & AIR CONT. VAC.
	No. OF CYLS & CYCLE.	16 CYLS 4 STROKE.			
MAIN GENERATOR.	MAX. CONT. RATED OUTPUT.	2000 H.P. AT 850 R.P.M.	SPEED.	BRAKE FORCE { % OF LOCO. WEIGHT IN WORKING ORDER.	63.5%.
	MAKE & TYPE.	ENGLISH ELECTRIC TYPE E.E. 822.			
TRACTION MOTORS.	MAKE & TYPE.	ENGLISH ELECTRIC E.E. 526/5D.	MINIMUM RADIUS. CURVES.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
	No.	SIX.			
PERFORMANCE.	TYPE OF SUSPENSION.	NOSE.	TRAIN HEATING. EQUIPMENT.	HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE. BOILER MAKE & TYPE. STEAMING CAPACITY.	4.5 CHAINS. 3-6 CHAINS. 18 CHAINS. 18 CHAINS. STONE -VAPOR QK. 4625
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION.			
	MAX. TRACTIVE EFFORT.	52,000 LB. AT 21-1% ADHESION	TANK CAPACITIES. { ENGINE FUEL BOILER FUEL. BOILER WATER.	710 GALLONS. 200 GALLONS. 800 GALLONS.	
	CONT. TRACTIVE EFFORT.	AT 2,700 AMPS MAIN GENERATOR 30,900 LB. AT 18.8 M.P.H. AT 1,800 AMP MAIN GENERATOR.			
	RAIL H.P. AT CONT. RATING.	1,550 H.P.			
FULL ENGINE OUTPUT.	AVAILABLE BETWEEN 10 & 79 M.P.H.				

2000 H.P. E.E. TYPE 4 IC - CI DIESEL ELECTRIC LOCOMOTIVE.
CLASS 40

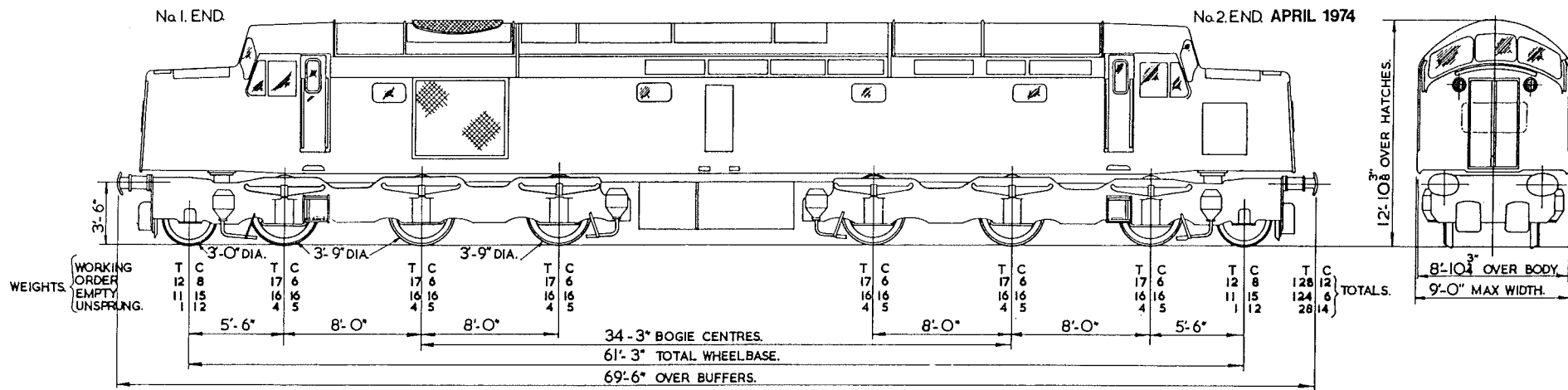
40-a X



ENGINE.	MAKE & TYPE.	ENGLISH ELECTRIC 16 SVT. MK. II	BRAKING	TYPE. { FOR LOCO. FOR TRAIN.	AIR VACUUM
	NO. OF CYLS. & CYCLE.	16 CYLS. 4 STROKE.			
	MAX. CONT RATED OUTPUT.	2000 H.P. AT 850 R.P.M.		BRAKE FORCE. { % OF LOCO. WEIGHT. IN WORKING ORDER.	64%
MAIN GENERATOR.	MAKE & TYPE.	ENGLISH ELECTRIC TYPE E.E. 822.	SPEED.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
	MAKE & TYPE.	ENGLISH ELECTRIC E.E. 526/5D			
TRACTION MOTORS.	No.	SIX.	MINIMUM RADIUS.	{ HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE.	4-5 CHAINS. 3-6 CHAINS. 18 CHAINS.
	TYPE OF SUSPENSION.	NOSE.	CURVES.		18 CHAINS.
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION		BOILER MAKE & TYPE.	STONE-VAPOUR O.K.4625 OR B.R.4625
	MAX. TRACTIVE EFFORT.	52,000 LB. AT 21.5% ADHESION.	TRAIN HEATING.	STEAMING CAPACITY.	2750 LB/HOUR
PERFORMANCE.	CONT TRACTIVE EFFORT.	30,900 LB. AT 18.8 M.P.H.	EQUIPMENT.		
	RAIL H.P. AT CONT. RATING.	1,550 H.P.	TANK CAPACITIES.	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	710 GALLONS. 200 GALLONS. 800 GALLONS.
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10 & 79 M.P.H.			

2000 H.P. E.E. TYPE 4 IC-CI DIESEL ELECTRIC LOCOMOTIVE.
CLASS 40

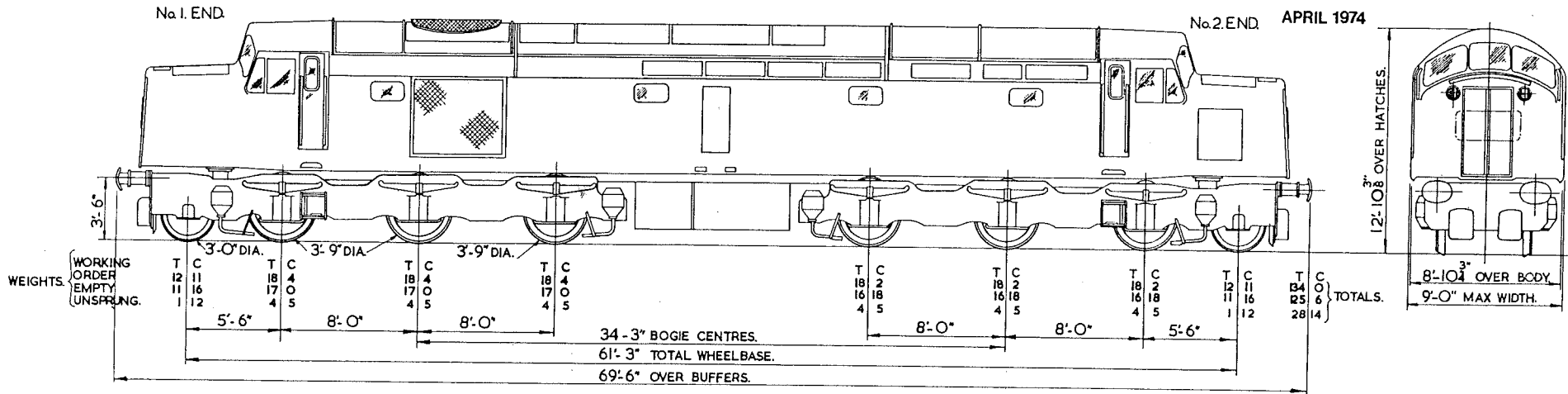
40-b V



ENGINE	MAKE & TYPE.	ENGLISH ELECTRIC 16 SVT. MK.11			
	NO. OF CYLS. & CYCLE.	16 CYLS. 4 STROKE.			
	MAX. CONT. RATED OUTPUT.	2000 H.P. AT 850 R.P.M.	BRAKING	TYPE.	FOR LOCO. AIR
MAIN GENERATOR	MAKE & TYPE.	ENGLISH ELECTRIC TYPE E.E. 822.		FOR TRAIN.	VACUUM
	MAKE & TYPE.	ENGLISH ELECTRIC E.E. 526/5D	SPEED.	BRAKE FORCE.	% OF LOCO. WEIGHT.
TRACTION MOTORS	No.	SIX.		IN WORKING ORDER.	66.2%
	TYPE OF SUSPENSION.	NOSE.	MINIMUM RADIUS.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION	CURVES.	HORIZONTAL WITHOUT GAUGE WIDENING.	4.5 CHAINS.
	MAX. TRACTIVE EFFORT.	52,000 LB. AT 223% ADHESION.		HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.	3.6 CHAINS.
PERFORMANCE.	CONT. TRACTIVE EFFORT.	AT 2,700 AMPS. MAIN GENERATOR.	TRAIN HEATING EQUIPMENT.	VERTICAL CONVEX.	18 CHAINS.
	RAIL H.P. AT CONT. RATING.	30,900 LB. AT 18.8 M.P.H.		VERTICAL CONCAVE.	18 CHAINS.
	FULL ENGINE OUTPUT	AT 1,800 AMP. MAIN GENERATOR.	TANK CAPACITIES	BOILER MAKE & TYPE.	
		1,550 H.P.		STEAMING CAPACITY.	
		AVAILABLE BETWEEN 10 & 79 M.P.H.		ENGINE FUEL.	710 GALLONS.
				BOILER FUEL.	
				BOILER WATER.	

**2000 H.P. E.E. TYPE 4 IC-CI DIESEL ELECTRIC LOCOMOTIVE.
CLASS 40**

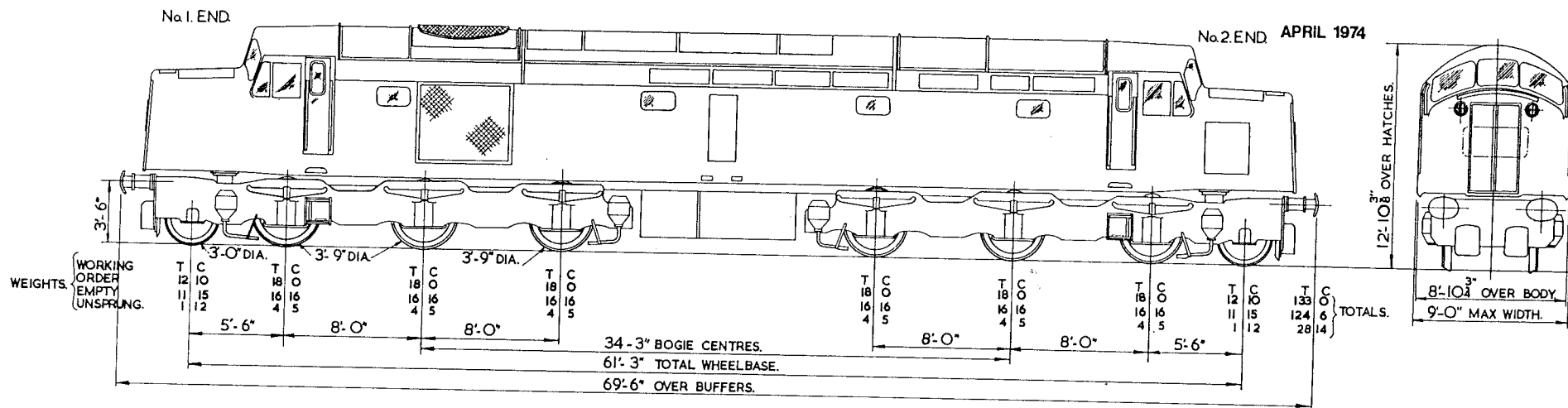
40-c V



ENGINE	MAKE & TYPE.	ENGLISH ELECTRIC 16 SVT. MK. II	BRAKING	TYPE. { FOR LOCO. FOR TRAIN.	STRAIGHT AIR & AUTO. AIR. AUTO. AIR & AIR CONT. VAC.
MAIN GENERATOR.	No. OF CYLS. & CYCLE.	16 CYLS. 4 STROKE.	SPEED.	BRAKE FORCE. { % OF LOCO. WEIGHT. IN WORKING ORDER.	63-5%
	MAX. CONT RATED OUTPUT.	2000 H.P. AT 850 R.P.M.			
TRACTION MOTORS.	MAKE & TYPE.	ENGLISH ELECTRIC E.E. 822.	MINIMUM RADIUS. CURVES.	MAX PERMITTED SERVICE SPEED.	90 M.P.H.
	MAKE & TYPE.	ENGLISH ELECTRIC E.E. 526/5D			
	No.	SIX.			
PERFORMANCE.	TYPE OF SUSPENSION.	NOSE.	TRAIN HEATING. EQUIPMENT.	HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE.	4-5 CHAINS. 3-6 CHAINS. 18 CHAINS. 18 CHAINS.
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION			
	MAX. TRACTIVE EFFORT.	52,000 LB. AT 21-1% ADHESION.			
	CONT TRACTIVE EFFORT.	AT 2,700 AMPS. MAIN GENERATOR. 30,900 LB. AT 18-8 M.P.H. AT 1,800 AMP MAIN GENERATOR.			
	RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT	1,550 H.P. AVAILABLE BETWEEN 10 & 79 M.P.H.			
TANK CAPACITIES	ENGINE FUEL. BOILER FUEL. BOILER WATER.	710 GALLONS. 200 GALLONS. 800 GALLONS.			

2000 H.P. E.E. TYPE 4 IC-CI DIESEL ELECTRIC LOCOMOTIVE.
CLASS 40

40-d X

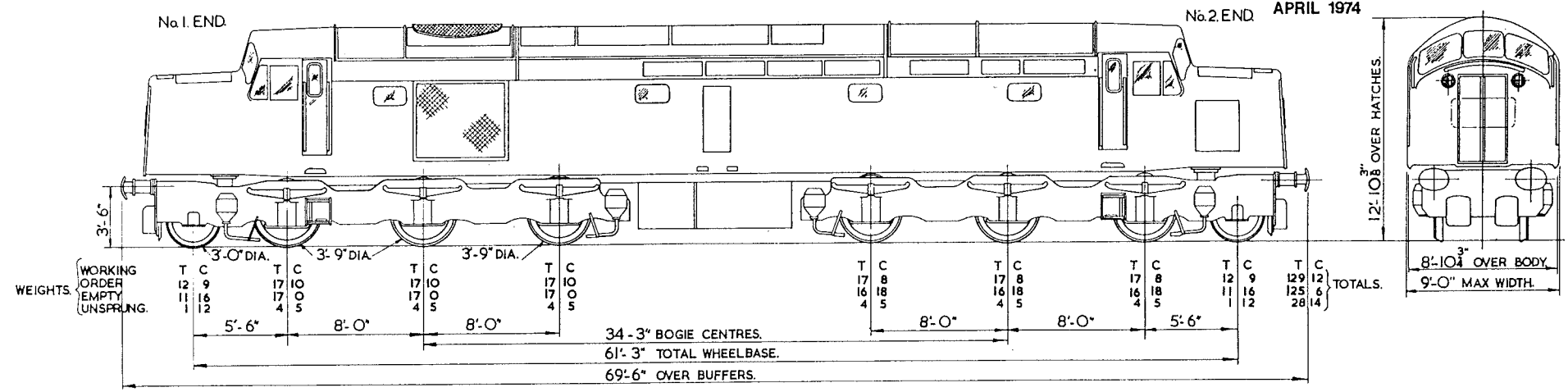


ENGINE.	MAKE & TYPE.	ENGLISH ELECTRIC 16 SVT. MK.11			
	NO. OF CYLS. & CYCLE.	16 CYLS. 4 STROKE.			
MAIN GENERATOR.	MAKE & TYPE.	ENGLISH ELECTRIC TYPE E.E. 822.	BRAKING	TYPE.	FOR LOCO. AIR
	MAX. CONT. RATED OUTPUT.	2000 H.P. AT 850 R.P.M.		FOR TRAIN.	VACUUM
	MAKE & TYPE.	ENGLISH ELECTRIC E.E. 526/5D		BRAKE FORCE.	% OF LOCO. WEIGHT.
TRACTION MOTORS.	No.	SIX.		IN WORKING ORDER.	64%.
	TYPE OF SUSPENSION.	NOSE.	SPEED.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION			
	MAX. TRACTIVE EFFORT.	52,000 LB. AT 21.5% ADHESION.	MINIMUM RADIUS.	HORIZONTAL WITHOUT GAUGE WIDENING.	4.5 CHAINS.
PERFORMANCE.	CONT. TRACTIVE EFFORT.	AT 2,700 AMPS. MAIN GENERATOR.	CURVES.	HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.	3.6 CHAINS.
	RAIL H.P. AT CONT. RATING.	30,900 LB. AT 18.8 M.P.H.		VERTICAL CONVEX.	18 CHAINS.
	FULL ENGINE OUTPUT	AT 1,800 AMP MAIN GENERATOR.	TRAIN HEATING.	VERTICAL CONCAVE.	18 CHAINS.
		1,550 H.P.	EQUIPMENT.	BOILER MAKE & TYPE.	CLAYTON R.O. 2500 MARK I.
		AVAILABLE BETWEEN 10 & 79 M.P.H.	TANK CAPACITIES.	STEAMING CAPACITY.	2500 LB/HOUR.
				(ENGINE FUEL.	710 GALLONS.
				BOILER FUEL.	200 GALLONS.
				BOILER WATER.	800 GALLONS.

**2000 H.P. E.E. TYPE 4 IC-CI DIESEL ELECTRIC LOCOMOTIVE.
CLASS 40**

40-eV

APRIL 1974



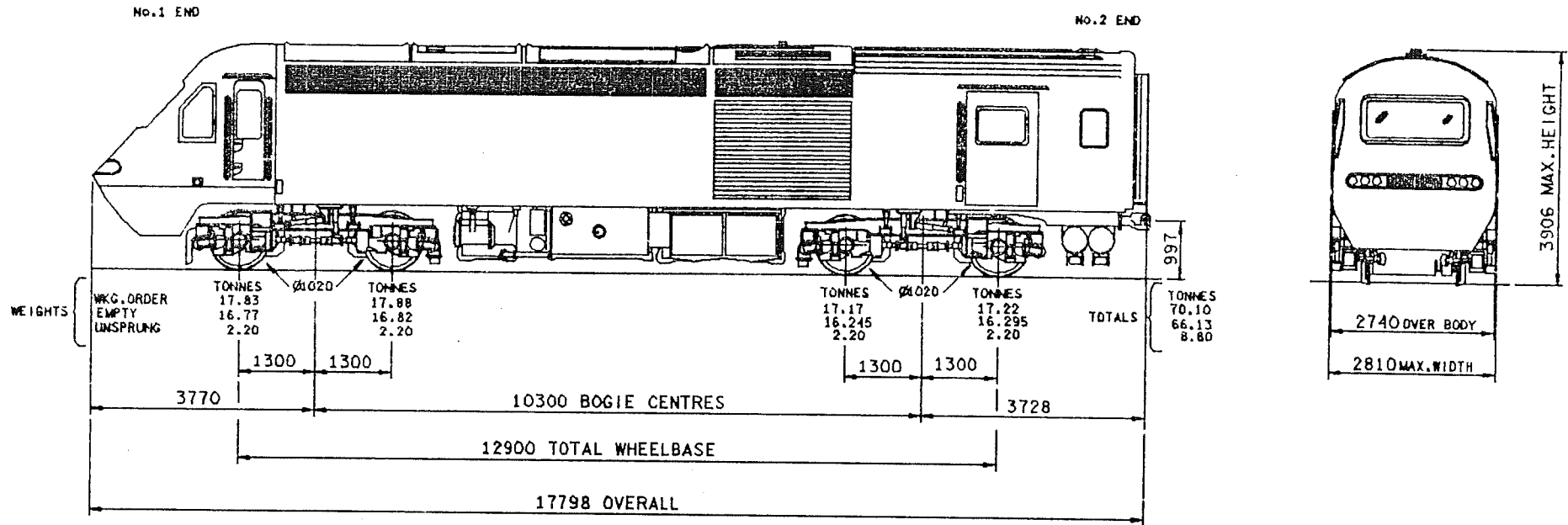
ENGINE.	MAKE & TYPE.	ENGLISH ELECTRIC 16 SVT. MK.11			
	No OF CYLS. & CYCLE.	16 CYLS. 4 STROKE.			
	MAX. CONT RATED OUTPUT.	2000 H.P. AT 850 R.P.M.	BRAKING	TYPE.	FOR LOCO. STRAIGHT AIR & AUTO. AIR.
MAIN GENERATOR.	MAKE & TYPE.	ENGLISH ELECTRIC TYPE E.E. 822.		FOR TRAIN.	AUTO. AIR & AIR CONT. VAC.
	MAKE & TYPE.	ENGLISH ELECTRIC E.E. 526/5D	SPEED.	BRAKE FORCE.	% OF LOCO. WEIGHT. 65.7%
TRACTION MOTORS.	No.	SIX.		IN WORKING ORDER.	
	TYPE OF SUSPENSION.	NOSE.	MINIMUM RADIUS.	MAX PERMITTED SERVICE SPEED.	90 M.P.H.
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION	CURVES.	HORIZONTAL WITHOUT GAUGE WIDENING.	4.5 CHAINS.
	MAX. TRACTIVE EFFORT.	52,000 LB. AT 22.2% ADHESION.		HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.	3.6 CHAINS.
PERFORMANCE.	CONT TRACTIVE EFFORT.	AT 2,700 AMPS. MAIN GENERATOR.	TRAIN HEATING.	VERTICAL CONVEX.	18 CHAINS.
	RAIL H.P. AT CONT. RATING.	30,900 LB. AT 18.8 M.P.H.	EQUIPMENT.	VERTICAL CONCAVE.	18 CHAINS.
	FULL ENGINE OUTPUT	AT 1,800 AMP MAIN GENERATOR.		STEAMING CAPACITY.	
		1,550 H.P.	TANK CAPACITIES	ENGINE FUEL.	710 GALLONS.
		AVAILABLE BETWEEN 10 & 79 M.P.H.		BOILER FUEL.	
				BOILER WATER.	

2000 H.P. E.E. TYPE 4 IC - CI DIESEL ELECTRIC LOCOMOTIVE.
CLASS 40

40-f X

1680 kW.B.R.Bo-Bo DIESEL ELECTRIC LOCOMOTIVE

43-0a A

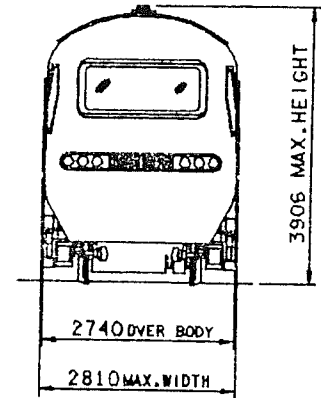
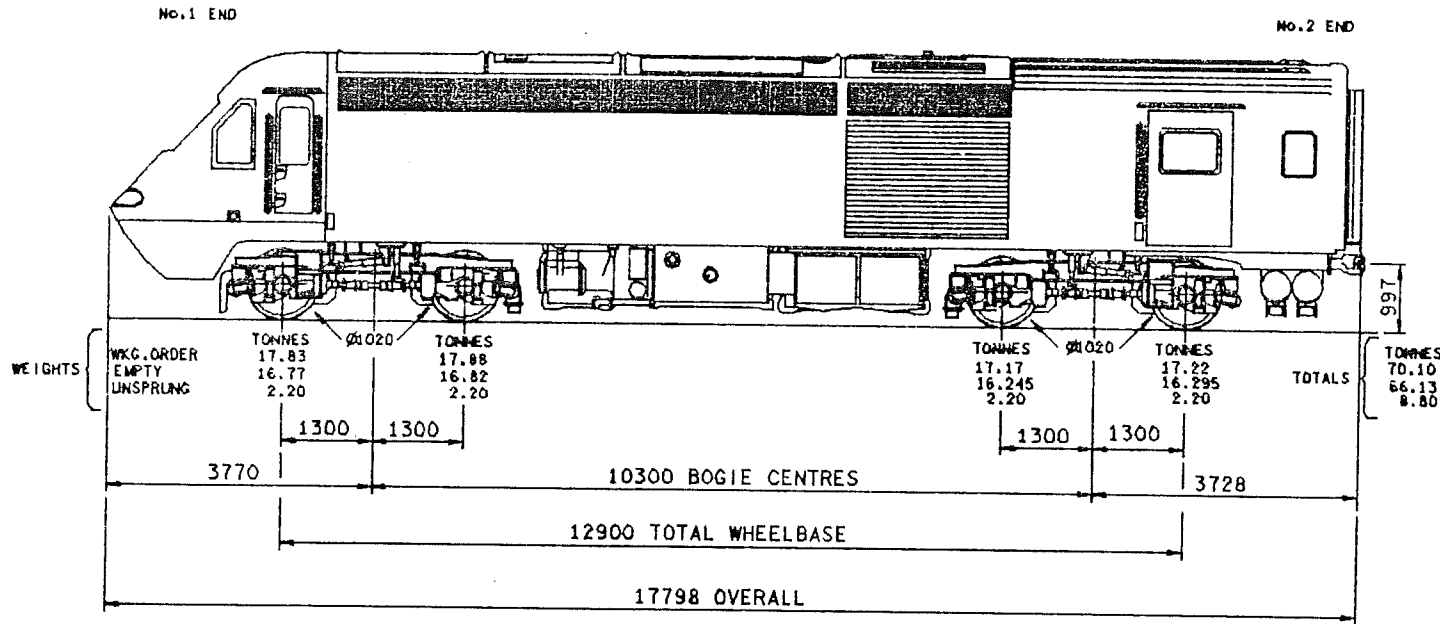


ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	RUSTON-PAXMAN 12RP.200L 12 CYL. 4 STROKE 1680 kW.	BRAKING	TYPE { FOR POWER CAR FOR TRAIN	AUTO.AIR AUTO.AIR
MAIN ALTERNATOR	MAKE & TYPE	BRUSH BL91-32	MULTIPLE WORKING	COUPLING SYMBOL	-
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM68-46 Mk.2 FOUR. FULLY SUSPENDED SINGLE REDUCTION. 80,000N AT 11.6% ADHESION	MINIMUM RADIUS CURVES	BRAKE FORCE % OF CAR { 0-145 km/h WT. IN WORKING ORDER { 145-200 km/h	50% 34%
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	45,950N. AT 103.3 km/h AT 1490 A. TRACTION CURRENT AT 1000 A. TRACTION CURRENT 1320 kW AVAILABLE BETWEEN 56 & 200km/h 70 TONNES 35 TONNES - 5 125 M.P.H.	TRAIN HEATING EQUIPMENT	HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 20mm GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	80 m 65 m 200 m 200m
DATA PANEL			TANK CAPACITY	ELECTRIC ALTERNATOR MAKE & TYPE DRIVEN BY CONT. OUTPUT ENGINE FUEL	BRUSH BL 91-20 ENGINE 280kW AT 900V 4682 LITRES

MARCH 1987

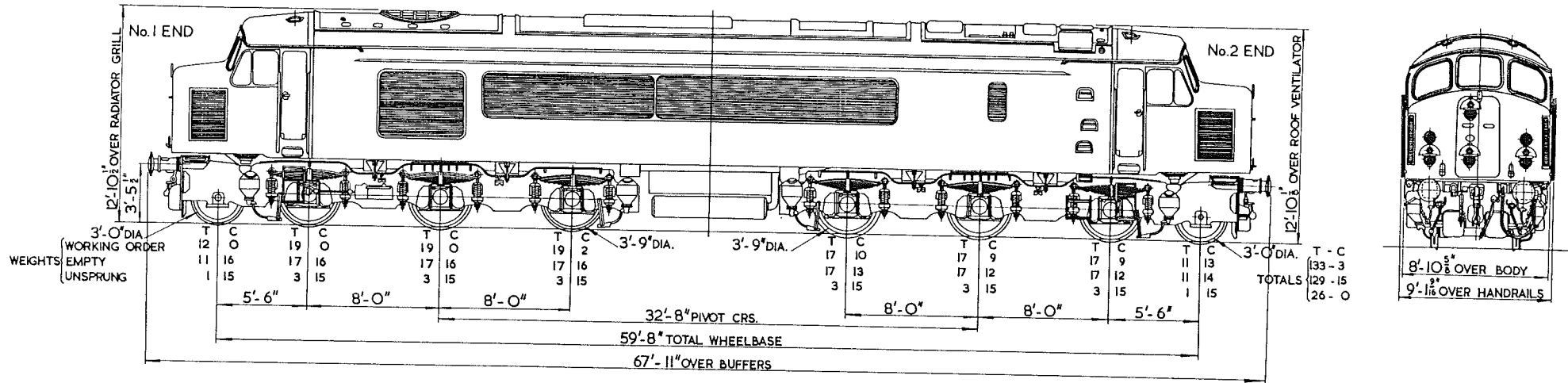
1680 kW.B.R.Bo-Bo DIESEL ELECTRIC LOCOMOTIVE

43-0b A



ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	RUSTON-PAXMAN 12RP.200L 12 CYL. 4 STROKE 1680 kW.	BRAKING	TYPE { FOR POWER CAR FOR TRAIN	AUTO.AIR AUTO.AIR
MAIN ALTERNATOR	MAKE & TYPE	BRUSH BL91-32	MULTIPLE WORKING	COUPLING SYMBOL	80 m
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	GEC G417 BY/CY FOUR. FULLY SUSPENDED SINGLE REDUCTION. 80,000N AT 11.6% ADHESION	MINIMUM RADIUS CURVES	BRAKE FORCE % OF CAR { 0-145 km/h WT. IN WORKING ORDER { 145-200 km/h	50% 34%
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT WEIGHT	45,950N AT 103.3 km/h 1320 kW AVAILABLE BETWEEN 56 & 200km/h 70 TONNES	TRAIN HEATING EQUIPMENT	VERTICAL CONVEX VERTICAL CONCAVE	200 m 200 m
DATA PANEL	BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	35 TONNES - 5 125 M.P.H.	TANK CAPACITY	ELECTRIC ALTERNATOR MAKE & TYPE DRIVEN BY CONT. OUTPUT ENGINE FUEL	BRUSH BL 91-20 ENGINE 280kW AT 900V 4682 LITRES

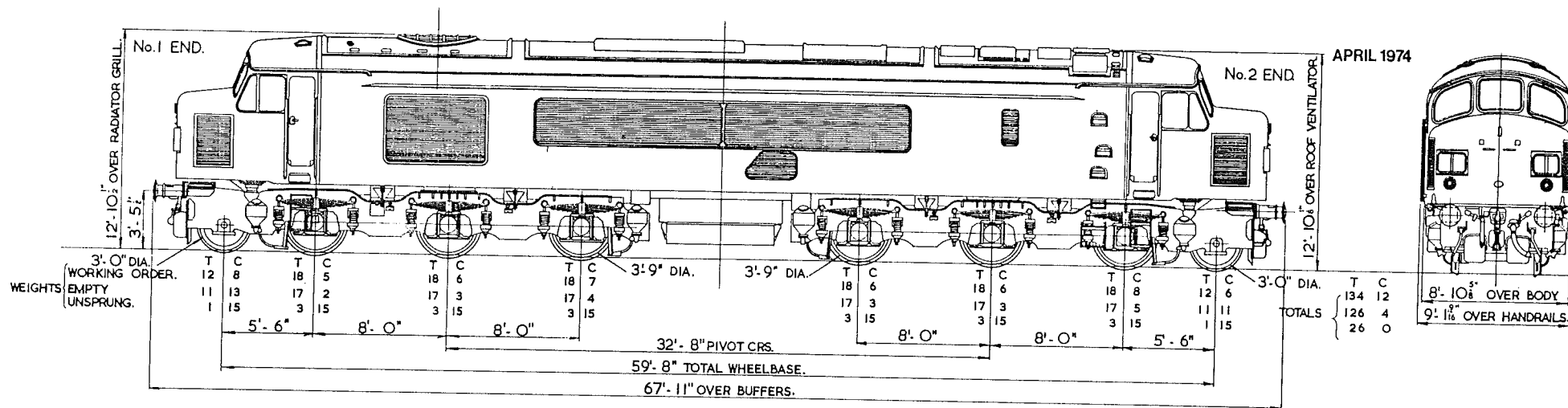
MARCH 1987



ENGINE.	MAKE & TYPE	SULZER 12 LDA. 28.	BRAKING	TYPE. { FOR LOCO. FOR TRAIN.	AIR.
	No. OF CYLS & CYCLE	12 CYL. 4 STROKE.			VACUUM.
MAIN GENERATOR.	MAX. CONT. RATED OUTPUT	2300 H.P. AT 750 R.P.M.		BRAKE FORCE { % OF LOCO. WEIGHT IN WORKING ORDER.	79.5%
	MAKE & TYPE	CROMPTON PARKINSON C.G.426 A.I.	SPEED.	MAX. PERMITTED SERVICE SPEED.	90 M.P.H.
TRACTION MOTORS.	MAKE & TYPE.	CROMPTON PARKINSON C. 171 B.I.	CURVE.	MIN. RAD. CURVE { WITHOUT GAUGE WIDENING. AT DEAD SLOW SPEED.	5 CHAINS.
	No.	SIX.			
	TYPE OF SUSPENSION.	NOSE.	TRAIN HEATING	{ BOILER MAKE & TYPE STEAMING CAPACITY	
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION. 57/22	EQUIPMENT		
PERFORMANCE.	MAX. TRACTIVE EFFORT	50000 LB. AT 20.0% ADHESION	TANK CAPACITIES.	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	790 GALLS.
	CONT. TRACTIVE EFFORT.	AT 4050 AMPS. MAIN GENERATOR.			
	RAIL H.P. AT CONT. RATING.	29100 LB. AT 23.2 M.P.H.			
	FULL ENGINE OUTPUT.	AT 2640 AMPS. MAIN GENERATOR.			
		1800 H.P.			
		AVAILABLE BETWEEN 8.25 & 82.5 M.P.H.			

**2300 H.P. B.R. TYPE 4 I.C.I. DIESEL ELECTRIC LOCOMOTIVE.
CLASS 44**

44 - a V

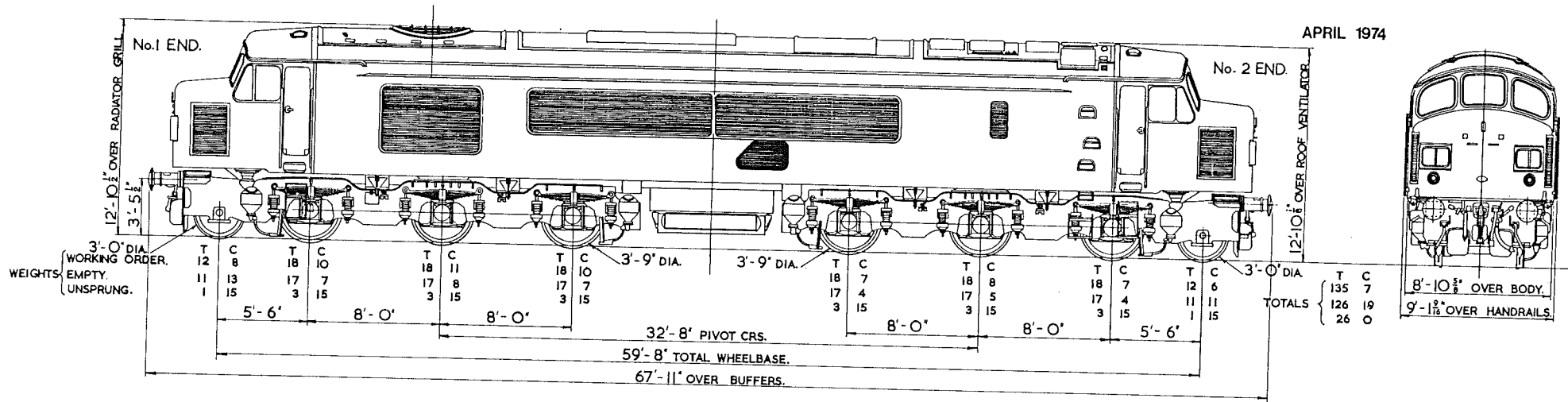


ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 12 LDA 28 B. 12 CYL. 4 STROKE. 2500 H.P. AT 750 R.P.M.	BRAKING	{ TYPE. { FOR LOCO. { FOR TRAIN. { BRAKE FORCE. { % OF LOCO WEIGHT. { IN WORKING ORDER.	AIR. VACUUM.
MAIN GENERATOR.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	CROMPTON PARKINSON C.G. 426 A1. CROMPTON PARKINSON C.172 A1. SIX. NOSE. STRAIGHT SPUR.	SPEED.	{ MAX. PERMITTED SERVICE SPEED. HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.	90 M.P.H. 5 CHAINS.
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	CROMPTON PARKINSON C.172 A1. SIX. NOSE. STRAIGHT SPUR.	MINIMUM RADIUS. CURVES.	{ VERTICAL CONVEX. VERTICAL CONCAVE.	4-65 CHAINS. 23 CHAINS.
PERFORMANCE.	{ MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	55000 LBS. AT 22.3 % ADHESION. AT 4200 AMPS. MAIN GENERATOR. 30000 LBS. AT 25 M.P.H. AT 2670 AMPS. MAIN GENERATOR. 2000 H.P. AVAILABLE BETWEEN 12 & 82 M.P.H.	TRAIN HEATING. EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY ENGINE FUEL. BOILER FUEL. BOILER WATER.	24 CHAINS. STONE VAPOR O.K. 4625. 2750 LBS/HOUR. 790 GALLS. 1040 GALLS.
			TANK CAPACITIES.		

**2500 H.P. B. R. TYPE 4 IC-CI DIESEL ELECTRIC LOCOMOTIVE.
CLASS 45/0**

45-a V

APRIL 1974

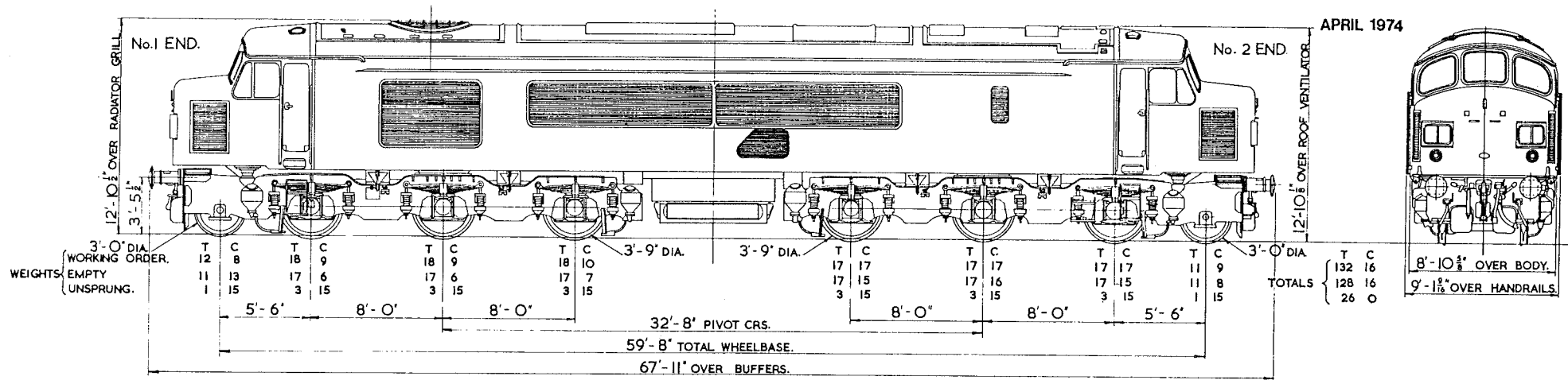


ENGINE.	MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 12LDA. 28 B. 12 CYL. 4 STROKE. 2500 H.P. AT 750 R.P.M.	BRAKING.	TYPE. { FOR LOCO. FOR TRAIN.	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. V.
MAIN GENERATOR.	MAKE & TYPE.	CROMPTON PARKINSON C.G.426 A.I.		BRAKE FORCE. { % OF LOCO. WEIGHT. IN WORKING ORDER.	77.6 %.
TRACTION MOTORS.	MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	CROMPTON PARKINSON C.172 A.I. SIX. NOSE. STRAIGHT SPUR.	SPEED.	MAX. PERMITTED SERVICE SPEED. HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING.	90 M.P.H. 5 CHAINS. 4.65 CHAINS.
PERFORMANCE.	MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	55,000 LBS. AT 22.1% ADHESION. AT 4,200 AMPS. MAIN GENERATOR. 30,000 LBS. AT 25 M.P.H. AT 2670 AMPS. MAIN GENERATOR. 2,000 H.P. AVAILABLE BETWEEN 12 & 82 M.P.H.	MINIMUM RADIUS. CURVES.	VERTICAL CONVEX. VERTICAL CONCAVE.	23 CHAINS. 24 CHAINS.
			TRAIN HEATING. EQUIPMENT.	BOILER MAKE & TYPE. STEAMING CAPACITY.	STONE VAPOR O.K.4625 2750 LBS./HOUR.
			TANK CAPACITIES.	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	790 GALLS. 1040 GALLS.

2500 H.P. B. R. TYPE 4 IC-CI DIESEL ELECTRIC LOCOMOTIVE.
CLASS 45/

45-b X

APRIL 1974



ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 12LDA. 28 B. 12 CYL. 4 STROKE. 2500 H.P. AT 750 R.P.M.	BRAKING.	{ TYPE. { FOR LOCO. FOR TRAIN. BRAKE FORCE. { % OF LOCO. WEIGHT. IN WORKING ORDER.	STRAIGHT AIR & AUTO. AIR. AUTO. AIR & AIR CONT. VAC. 79.2 %.
MAIN GENERATOR.	{ MAKE & TYPE. No.	CROMPTON PARKINSON C.G.426 A.I.	SPEED.	{ MAX. PERMITTED SERVICE SPEED. HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE.	90 M.P.H. 5 CHAINS. 4.65 CHAINS 23 CHAINS. 24 CHAINS.
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	CROMPTON PARKINSON C.172 A.I. SIX. NOSE. STRAIGHT SPUR. 55,000 LBS. AT 22.5% ADHESION. AT 4,200 AMPS. MAIN GENERATOR.	MINIMUM RADIUS. CURVES.	{ MAKE & TYPE. DRIVEN BY. CONT OUTPUT.	BRUSH BL 100-30 MK II MAIN ENGINE.
PERFORMANCE.	{ CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	30,000 LBS. AT 25 M.P.H. AT 2670 AMPS. MAIN GENERATOR. 2,000 H.P. AVAILABLE BETWEEN 12 & 82 M.P.H.	TRAIN HEATING EQUIPMENT.	ELECTRICAL ALTERNATOR	
			TANK CAPACITY.	ENGINE FUEL.	790 GALLONS.

2500 H.P. B. R. TYPE 4 IC-CI DIESEL ELECTRIC LOCOMOTIVE.
CLASS 45/1

45-1a X

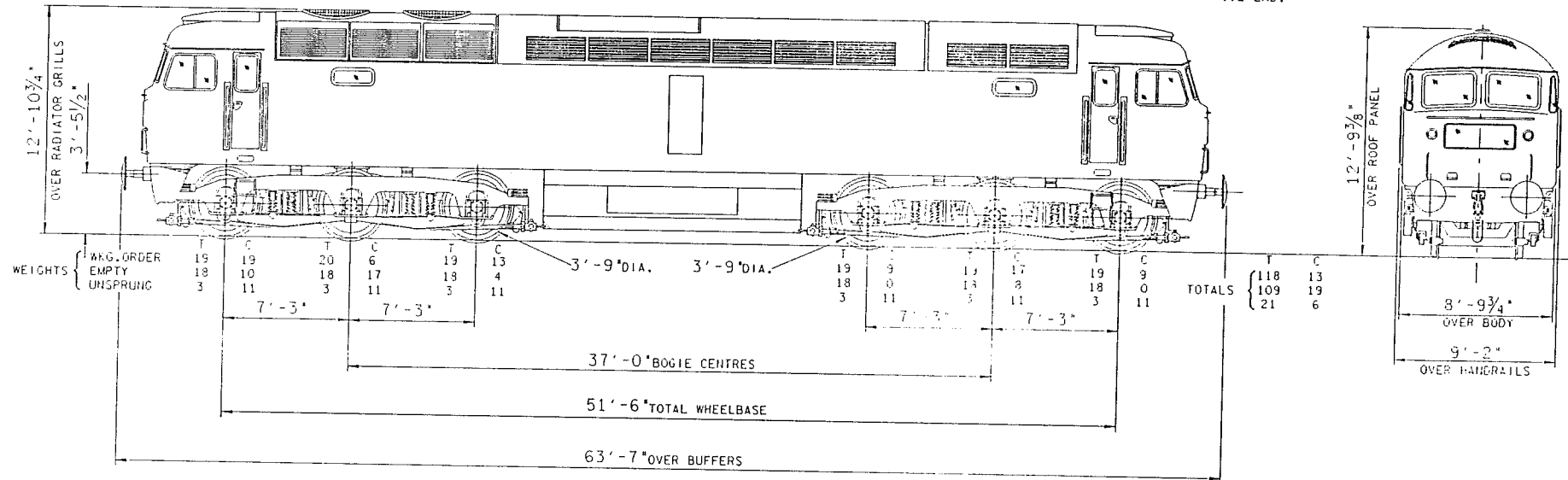
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/0

47-0b X

No. 1 END.

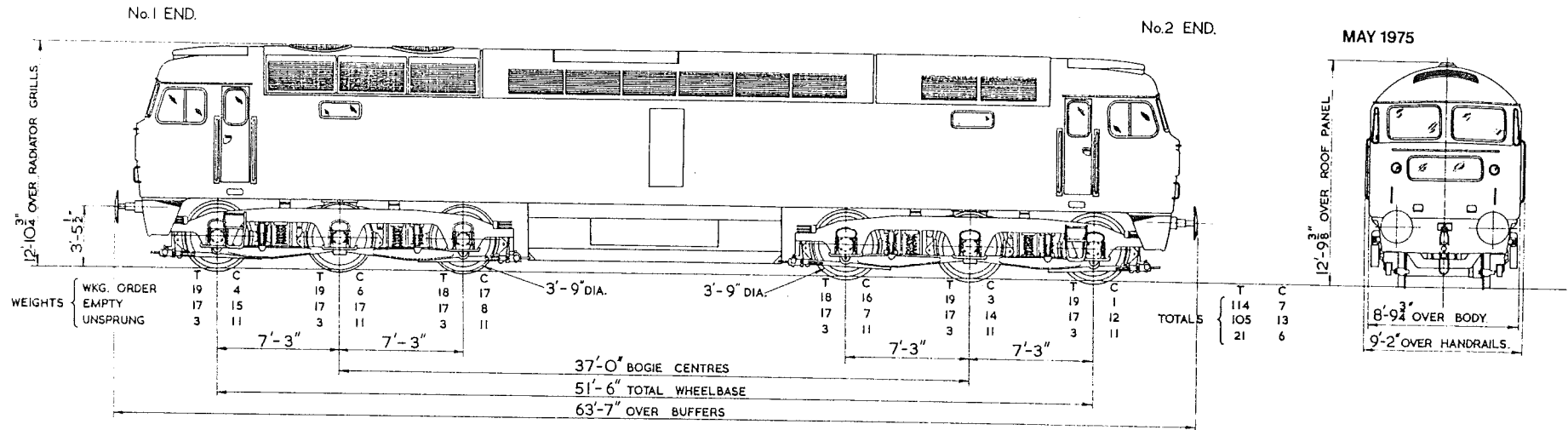
No. 2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.
MAIN GENERATOR	{ MAKE & TYPE MAKE & TYPE	BRUSH TG 160-60 MK.2 BRUSH TM 64-68 MK.1.
TRACTION MOTORS	{ No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 23.3% ADHESION AT 3,750 AMPS. MAIN GENERATOR.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	30,000 LB. AT 26 M.P.H. AT 2,130 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	121 TONNES 60 TONNES - 7. 75 M.P.H.

BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 83.9%.
MULTIPLE WORKING	COUPLING SYMBOL	-
MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
TRAIN HEATING EQUIPMENT	BOILER { MAKE & TYPE STEAMING CAPACITY	SPANNER MK. 3. 1850 LB/HR
TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	720 GALLONS. 1250 GALLONS

JAN. 1992



ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 12 LDA. 28 C. 12 CYL 4 STROKE. 2580HP AT 750 R.P.M.	BRAKING.	{ TYPE { FOR LOCO. FOR TRAIN. BRAKE FORCE { % OF LOCO. WEIGHT IN WORKING ORDER.	AIR. VACUUM. 87 %
MAIN GENERATOR.	{ MAKE & TYPE.	BRUSH TG 160-60 MK.4.	SPEED.	{ MAX PERMITTED SERVICE SPEED.	95 M.P.H.
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	BRUSH TM 64-68 MK.I.A. SIX. NOSE. STRAIGHT SPUR.	MINIMUM RADIUS CURVES.	{ HORIZONTAL WITHOUT GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE.	4 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE.	{ MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	62,000 LB. AT 24.2% ADHESION AT 3750 AMPS. MAIN GENERATOR. 30,000 LB. AT 26 M.P.H. AT 2,130 AMPS. MAIN GENERATOR. 2080 H.P. AVAILABLE BETWEEN 10.5 & 7.7 M.P.H.	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	SPANNER MARK III 1850 LB/HR.
			TANK CAPACITIES.	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	765 GALLONS. 1250 GALLONS.

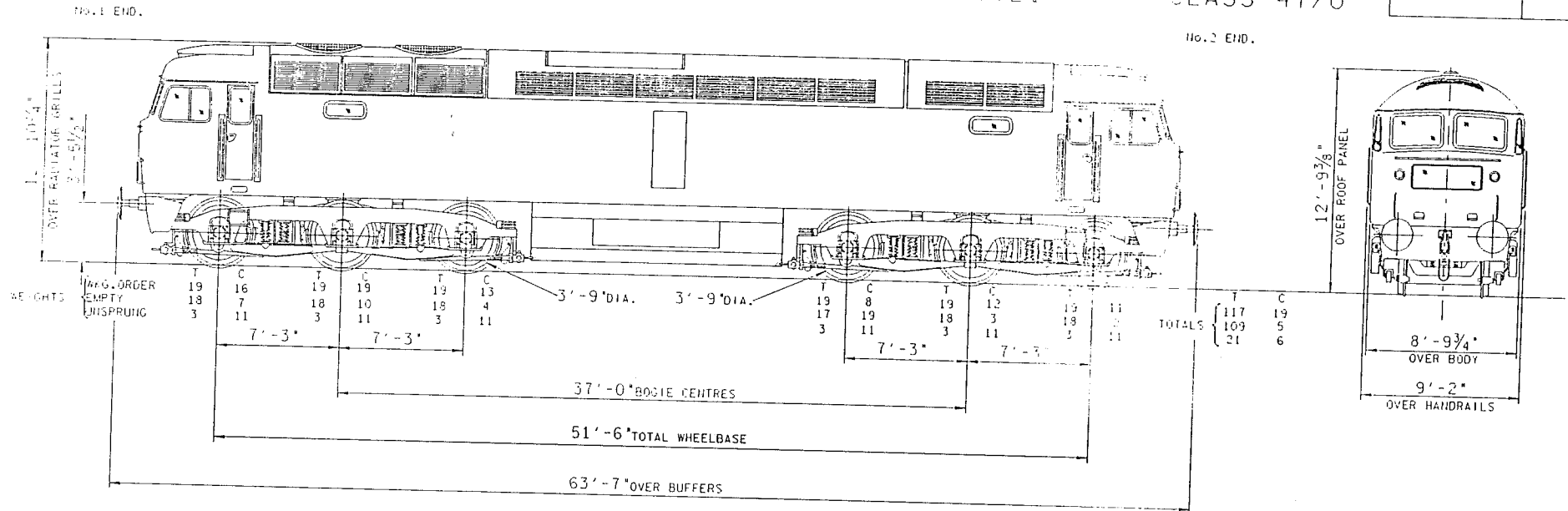
2580 H.P. BRUSH TYPE 4. C-C DIESEL ELECTRIC LOCOMOTIVE.
CLASS 47/0

47-c V

2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/0

47-0d X



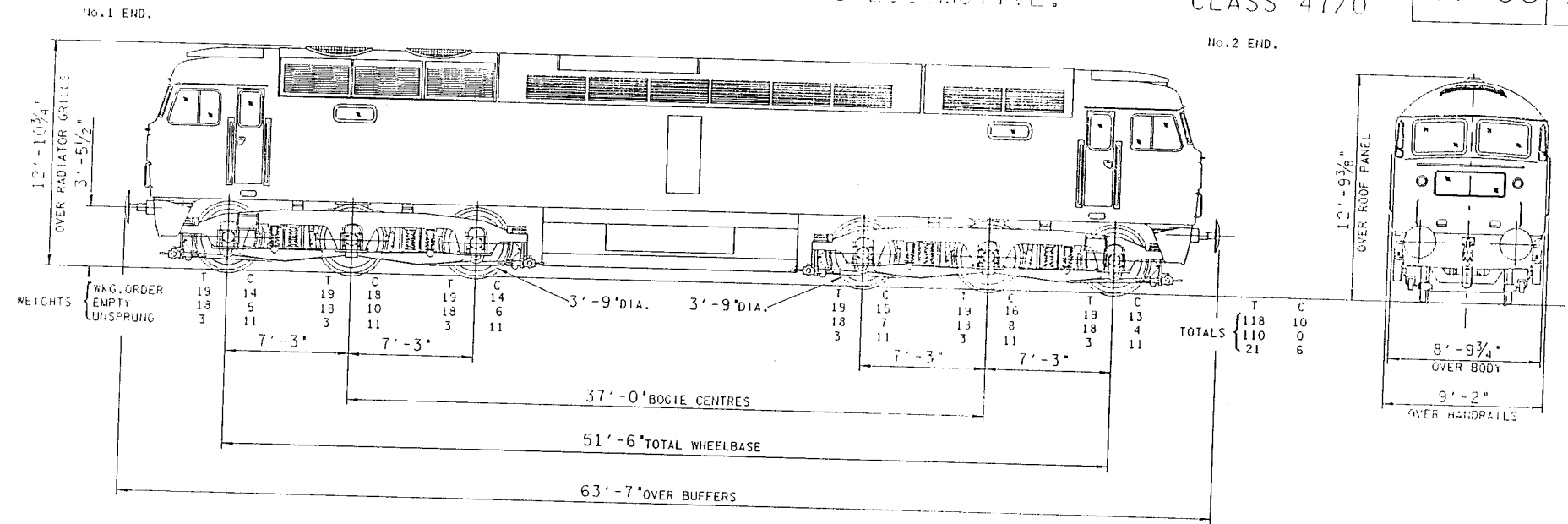
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 84.3%.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 160-60 MK.4	MULTIPLE WORKING	COUPLING SYMBOL	-
TRACTION MOTORS	{ MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE	BRUSH TM 64-68 MK.1.A SIX. NOSE. STRAIGHT SPUR.	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4" GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ MAX TRACTIVE EFFORT CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	62,000 LB. AT 23.5% ADHESION AT 3,750 AMPS. MAIN GENERATOR. 30,000 LB. AT 26 M.P.H. AT 2,130 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 85 MPH	TRAIN HEATING EQUIPMENT	BOILER { MAKE & TYPE STEAMING CAPACITY	SPANNER MK.3. 1850 LB/HR
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	120 TONNES 60 TONNES - 6. 75 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	720 GALLONS. 1250 GALLONS

JAN. 1992

2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

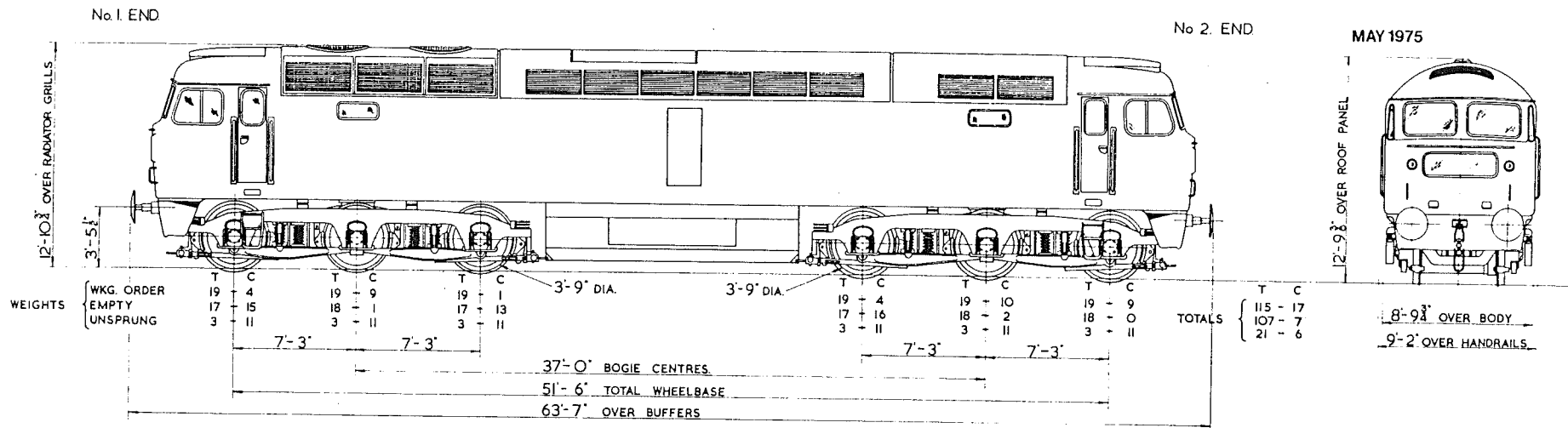
CLASS 47/0

47-0e X



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 83.9%.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 172-50 MK.1	MULTIPLE WORKING COUPLING SYMBOL		-
TRACTION MOTORS	{ MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE	BRUSH TM 64-68 MK.1.A. SIX. NOSE. STRAIGHT SPUR.	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ MAX TRACTIVE EFFORT CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	62,000 LB. AT 23.4% ADHESION AT 7,500 AMPS. MAIN GENERATOR. 30,000 LB. AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR 2,080 H.P.	TRAIN HEATING EQUIPMENT	BOILER { MAKE & TYPE STEAMING CAPACITY	SPANNER MK.3. 1850 LB/HR
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	AVAILABLE BETWEEN 10.5 & 77 MPH 120 TONNES 60 TONNES - 6. 75 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	720 GALLONS. 1200 GALLONS

JAN. 1992



ENGINE.	{ MAKE & TYPE. No OF CYLS. & CYCLE. MAX. CONT. RATED OUTPUT.	SULZER 12 L.D.A. 28 C. 12 CYL 4 STROKE. 2580HP AT 750 R.P.M.	BRAKING.	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT. IN WORKING ORDER.	AIR. VACUUM. 85-9%
MAIN GENERATOR.	{ MAKE & TYPE. MAKE & TYPE.	BRUSH TG.172-50 MK.I. BRUSH TM.64-68 MK.IA.	SPEED.	{ MAX PERMITTED SERVICE SPEED. HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING	95 M.P.H. 4 CHAINS. 3-75 CHAINS.
TRACTION MOTORS.	{ No TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	SIX. NOSE. STRAIGHT SPUR. 62000 LB AT 23.9% ADHESION AT 7500 AMPS MAIN GENERATOR.	MINIMUM RADIUS CURVES	{ VERTICAL CONVEX. VERTICAL CONCAVE. BOILER MAKE & TYPE STEAMING CAPACITY.	10 CHAINS. 10 CHAINS. STONE V.POR BR. 4625. 2750 LB/HR.
PERFORMANCE	{ CONT. TRACTIVE EFFORT. RAIL H.P AT CONT. RATING. FULL ENGINE OUTPUT.	30000 LB. AT 26 M.P.H. AT 4260 AMPS MAIN GENERATOR. 2080 H.P AVAILABLE BETWEEN 10.5 & 7.7 M.P.H.	TRAIN HEATING EQUIPMENT	{ ENGINE FUEL } BOILER FUEL } BOILER WATER }	765 GALLONS. 1200 GALLONS.

**2580 H.P BRUSH TYPE 4. C-C DIESEL ELECTRIC LOCOMOTIVE.
CLASS 47/0**

47-f \

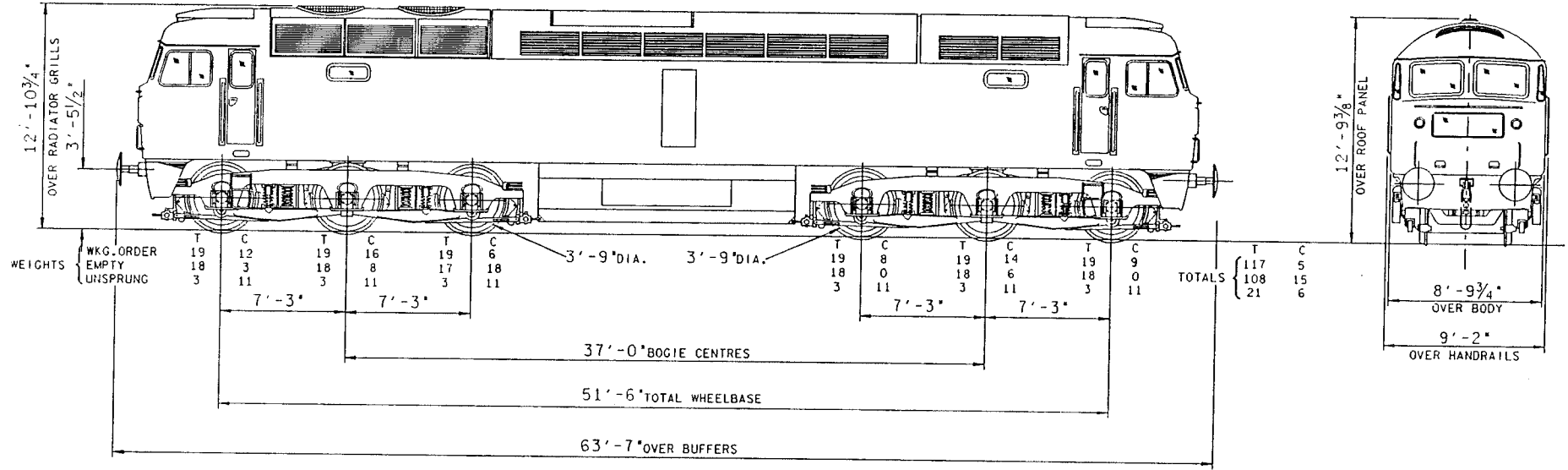
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/0

47-0g X

No.1 END.

No.2 END.



ENGINE	MAKE & TYPE	SULZER 12 L.D.A.28C.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR
	NO. OF CYLS. & CYCLE	12 CYL. 4 STROKE.		BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	AUTO. AIR & AIR CONT. VAC.
MAIN GENERATOR	MAX. CONT. RATED OUTPUT	2580 H.P. AT 750 R.P.M.			84.8%.
	MAKE & TYPE	BRUSH TG 172-50 MK.1	MULTIPLE WORKING	COUPLING SYMBOL	-
TRACTION MOTORS	MAKE & TYPE	BRUSH TM 64-68 MK.1.A.		MINIMUM RADIUS CURVES { HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS.
	NO.	SIX.			3.75 CHAINS.
	TYPE OF SUSPENSION	NOSE.			10 CHAINS.
	TYPE OF GEAR DRIVE	STRAIGHT SPUR.	TRAIN HEATING	EQUIPMENT BOILER { MAKE & TYPE STEAMING CAPACITY	STONE VAPOR BR.4625.
PERFORMANCE	MAX TRACTIVE EFFORT	62,000 LB. AT 23.6% ADHESION			2750 LB/HR
	CONT. TRACTIVE EFFORT	AT 7,500 AMPS. MAIN GENERATOR,	TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	720 GALLONS.
	RAIL H.P. AT CONT. RATING	30,000 LB. AT 26 M.P.H.			1200 GALLONS
	FULL ENGINE OUTPUT	AT 4,260 AMPS. MAIN GENERATOR			
DATA PANEL	WEIGHT	2,080 H.P.			
	BRAKE FORCE	AVAILABLE BETWEEN 10.5 & 77 MPH			
	E.T.H. INDEX	119 TONNES			
	ROUTE AVAILABILITY	60 TONNES			
	MAX. SPEED	-			
		75 M.P.H.			

JAN. 1992

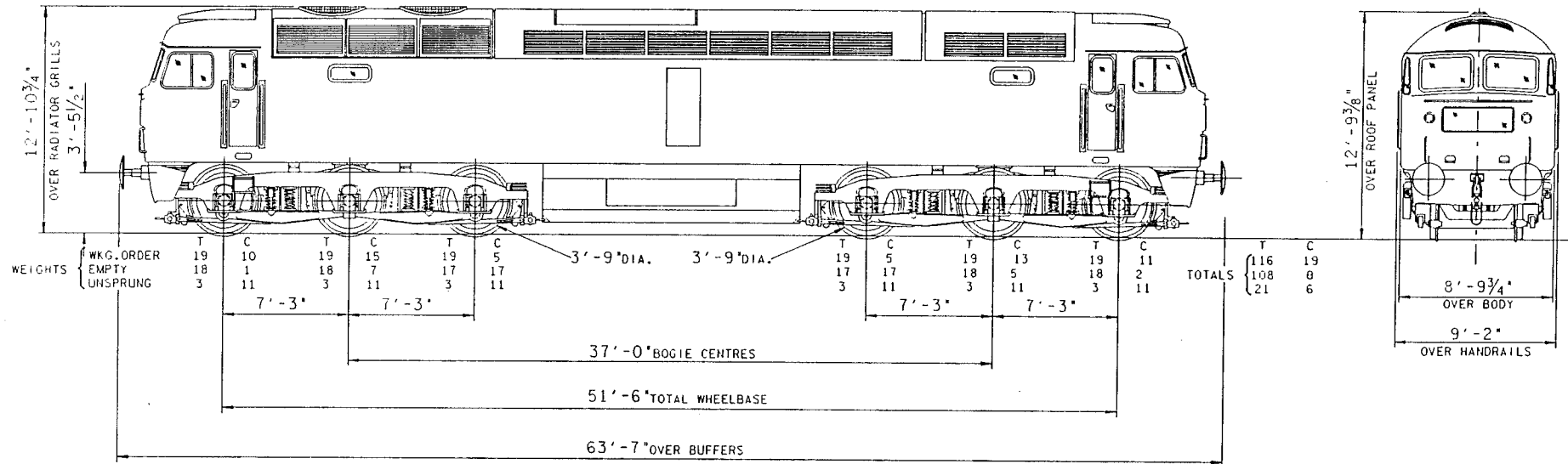
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/0

47-0h X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 85.1%.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 172-50 MK.1	MULTIPLE WORKING COUPLING SYMBOL	-	
TRACTION MOTORS	{ MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM 64-68 MK.1.A. SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 23.8% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 7,500 AMPS. MAIN GENERATOR. AT 4,260 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	TRAIN HEATING EQUIPMENT	BOILER { MAKE & TYPE STEAMING CAPACITY	CLAYTON MK 2. 2500 LB/HR
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	119 TONNES 60 TONNES 6. 75 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	720 GALLONS. 1200 GALLONS

JAN. 1992

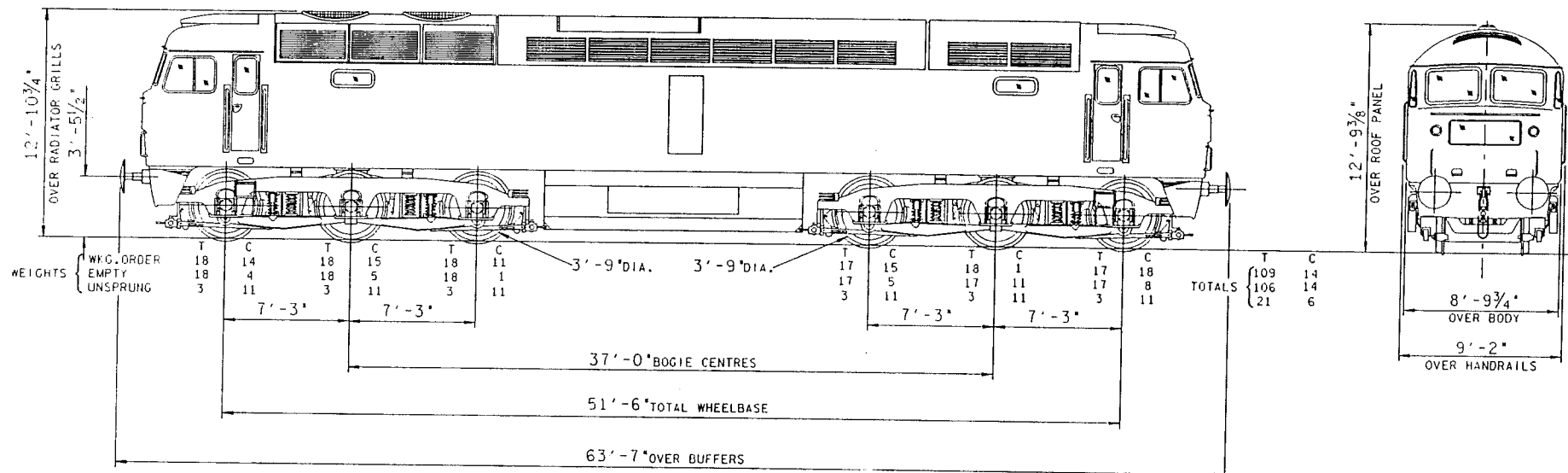
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/0

47-01 X

No.1 END.

No.2 END.



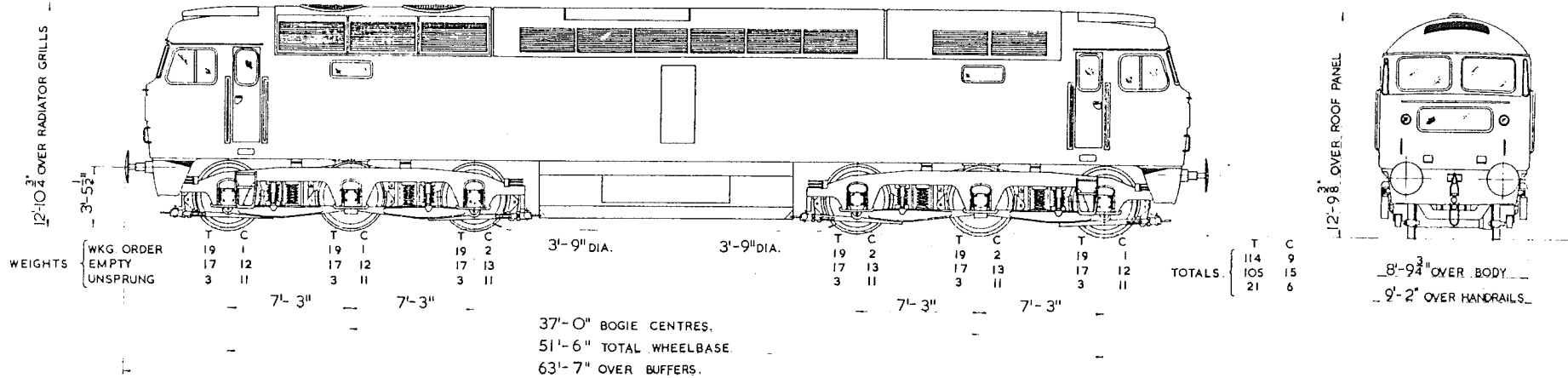
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 90.6%.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 172-50 MK.1	MULTIPLE WORKING	COUPLING SYMBOL	-
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM 64-68 MK.1.A. SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 25.2% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 7,500 AMPS. MAIN GENERATOR. 30,000 LB. AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	TRAIN HEATING	EQUIPMENT	NOT FITTED
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	112 TONNES 60 TONNES - 6. 75 M.P.H.	TANK CAPACITIES	ENGINE FUEL	720 GALLONS.

JAN. 1992

No. 1. END.

No. 2. END

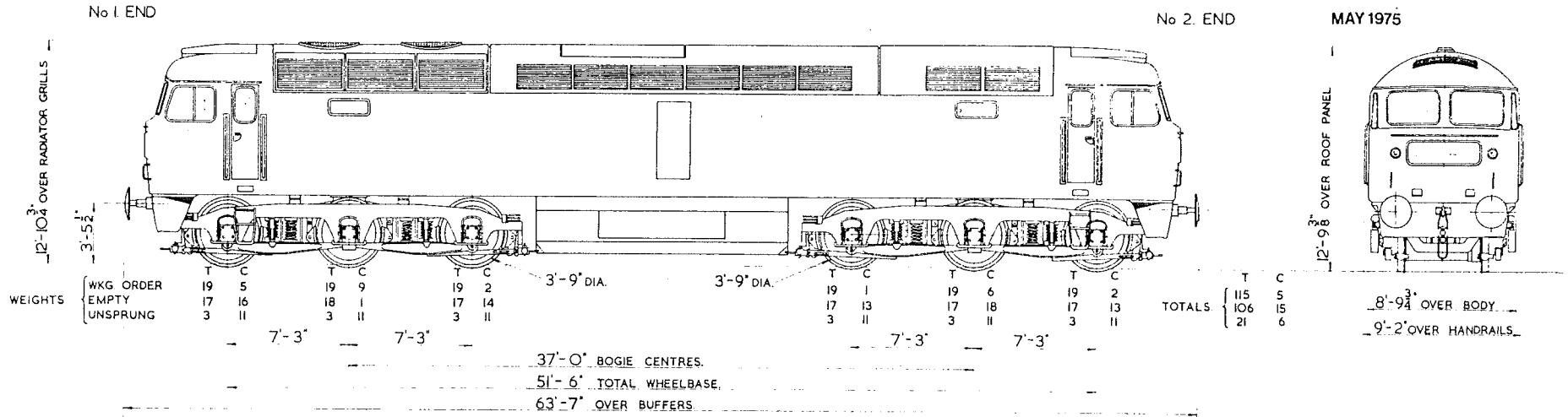
MAY 1975



ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE.	SULZER 12 LDA 28C 12 CYL; 4 STROKE	BRAKING.	{ TYPE { FOR LOCO FOR TRAIN	AIR VACUUM
MAIN GENERATOR.	{ MAX. CONT. RATED OUTPUT. MAKE & TYPE.	2580 HP AT 750 R.P.M. BRUSH TG 160-60 MK. 2, 4 ?	SPEED.	{ BRAKE FORCE { % OF LOCO. WEIGHT IN WORKING ORDER.	87%
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE.	BRUSH TM 64-68 MK. I. SIX NOSE STRAIGHT SPUR	CURVE.	{ MAX. PERMITTED SERVICE SPEED MIN. RAD. CURVE { WITHOUT GAUGE WIDENING. AT DEAD SLOW SPEED.	95 M.P.H. 4 CHAINS
PERFORMANCE.	{ MAX. TRACTIVE EFFORT. CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	62,000 LB. AT 24-27% ADHESION AT 3750 AMPS. MAIN GENERATOR 30,000 LB. AT 26 MPH. AT 2130 AMPS. MAIN GENERATOR 2080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	SPANNER MARK III 1850 LB/HR.
			TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL. BOILER WATER.	765 GALLONS 1250 GALLONS

2580 H.P. BRUSH TYPE 4. C-C DIESEL ELECTRIC LOCOMOTIVE.
CLASS 47/0

47-j V



ENGINE.	{ MAKE & TYPE. No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT.	SULZER 12 LDA 28 C. 12 CYL 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING.	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER.	AIR. VACUUM. 86-4%.
MAIN GENERATOR.	{ MAKE & TYPE. MAKE & TYPE.	T.G. 172 - 50 MK. I. T.M. 64 - 68 MK. IA.	SPEED.	MAX. PERMITTED SERVICE SPEED.	95 M.P.H.
TRACTION MOTORS	{ No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 24% ADHESION AT 7500 AMPS. MAIN GENERATOR.	MINIMUM RADIUS CURVES.	{ HORIZONTAL WITHOUT GAUGE WIDENING. VERTICAL CONVEX. VERTICAL CONCAVE.	4 CHAINS. 10 CHAINS 10 CHAINS
PERFORMANCE.	{ CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	30,000 LB. AT 26 M.P.H. AT 4260 AMPS. MAIN GENERATOR. 2080 H.P. AVAILABLE BETWEEN 10.5 & 77 M.P.H.	TRAIN HEATING EQUIPMENT.	{ BOILER MAKE & TYPE. STEAMING CAPACITY.	SPANNER MARK III. 1850 LB/HR.
			TANK CAPACITIES.	{ ENGINE FUEL. BOILER FUEL. BOILER WATER.	765 GALLONS. 1200 GALLONS.

**2580 H.P. BRUSH TYPE 4. C-C DIESEL ELECTRIC LOCOMOTIVE.
CLASS 47/0**

47-k V

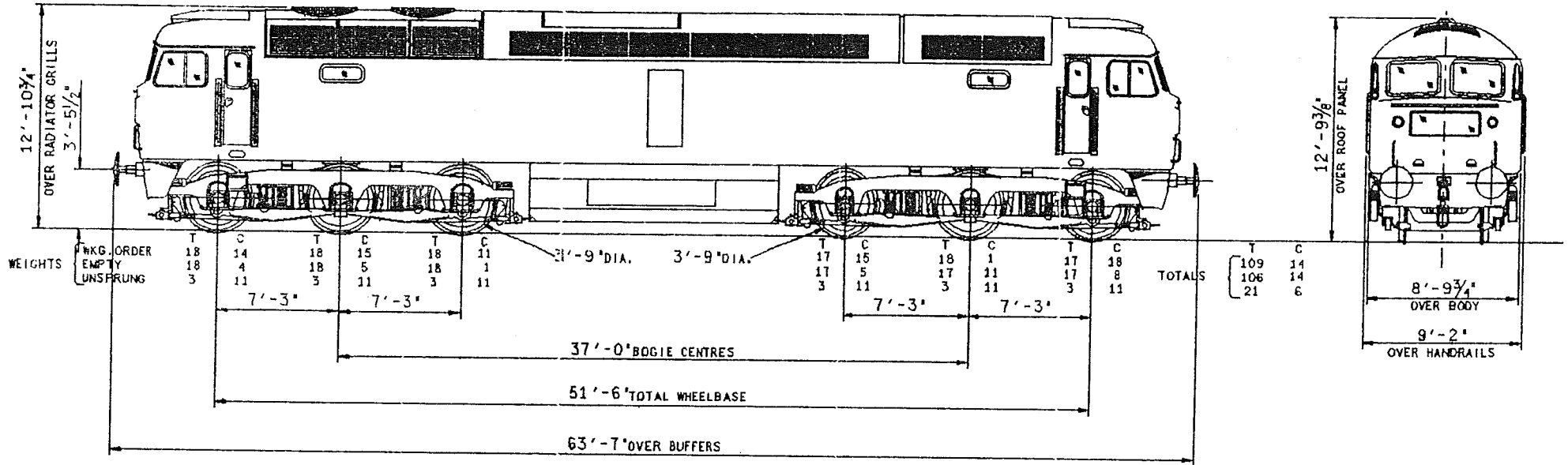
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/0

47-01 X

No.1 END.

No.2 END.



ENGINE	MAKE & TYPE	SULZER 12 L.D.A.28C.	BRAKING	TYPE	FOR LOCO	STRAIGHT AIR & AUTO. AIR
	No. OF CYLS. & CYCLE	12 CYL. 4 STROKE.		FOR TRAIN		AUTO.AIR & AIR CONT.VAC.
MAIN GENERATOR	MAX.CONT.RATED OUTPUT	2580 H.P. AT 750 R.P.M.		BRAKE FORCE	% OF LOCO WEIGHT	90.6%.
	MAKE & TYPE	BRUSH TG 172-50 MK.1		IN WORKING ORDER		
TRACTION MOTORS	MAKE & TYPE	BRUSH TM 64-68 MK.1.A.	MULTIPLE WORKING	COUPLING SYMBOL	-	
	No	SIX.		HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS.	
	TYPE OF SUSPENSION	NOSE.		HORIZONTAL WITH 3/4INS.GAUGE WIDENING	3.75 CHAINS.	
	TYPE OF GEAR DRIVE	STRAIGHT SPLR.	MINIMUM RADIUS	VERTICAL CONVEX	10 CHAINS.	
	MAX TRACTIVE EFFORT	62,000 LB.AT 25.2% ADHESION	CURVES	VERTICAL CONCAVE	10 CHAINS.	
		AT 7,500 AMPS. MAIN GENERATOR.				
PERFORMANCE	CONT.TRACTIVE EFFORT	30,000 LB.AT 26 M.P.H.	TRAIN HEATING	EQUIPMENT	NOT FITTED	
	RAIL H.P.AT CONT.RATING	AT 4,260 AMPS. MAIN GENERATOR				
	FULL ENGINE OUTPUT	2,080 H.P.	TANK CAPACITIES	ENGINE FUEL	720 GALLONS.	
	WEIGHT	AVAILABLE BETWEEN 10.5&77 MPH				
DATA PANEL	BRAKE FORCE	117 TONNES				
	E.T.H. INDEX	60 TONNES				
	ROUTE AVAILABILITY	-				
	MAX.SPEED	6.				
		95 M.P.H.				

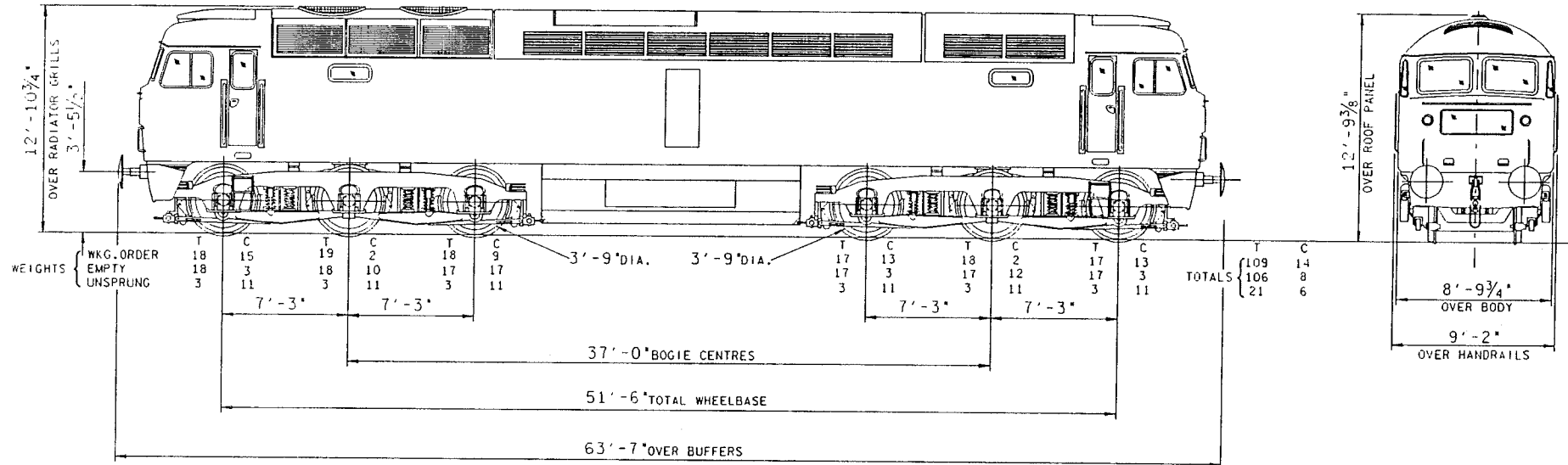
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/0

47-0m X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A. 28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 90.7%.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 160-60 MK.2	MULTIPLE WORKING	COUPLING SYMBOL	-
TRACTION MOTORS	{ MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM 64-68 MK.1 SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 25.2% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 3,750 AMPS. MAIN GENERATOR. 30,000 LB. AT 26 M.P.H. AT 2,130 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	TRAIN HEATING	EQUIPMENT	NOT FITTED
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	112 TONNES 60 TONNES - 6. 75 M.P.H.	TANK CAPACITIES	ENGINE FUEL	720 GALLONS.

JAN. 1992

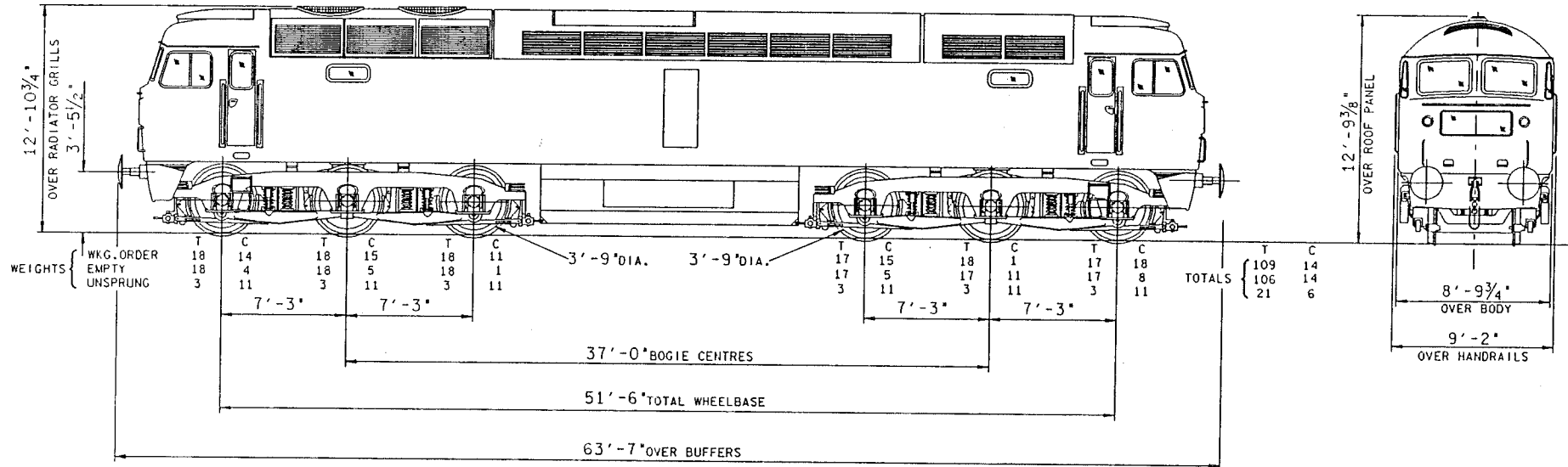
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/0

47-0n X

No.1 END.

No.2 END.



ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC.
MAIN GENERATOR	MAKE & TYPE	BRUSH TG 172-50 MK.1		BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	90.6%.
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM 64-68 MK.1.A. SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 25.2% ADHESION AT 7,500 AMPS. MAIN GENERATOR.	MULTIPLE WORKING	COUPLING SYMBOL	-
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	30,000 LB. AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	112 TONNES 60 TONNES - 6. 75 M.P.H.	TRAIN HEATING EQUIPMENT		NOT FITTED
			TANK CAPACITIES	ENGINE FUEL	970 GALLONS

JAN. 1992

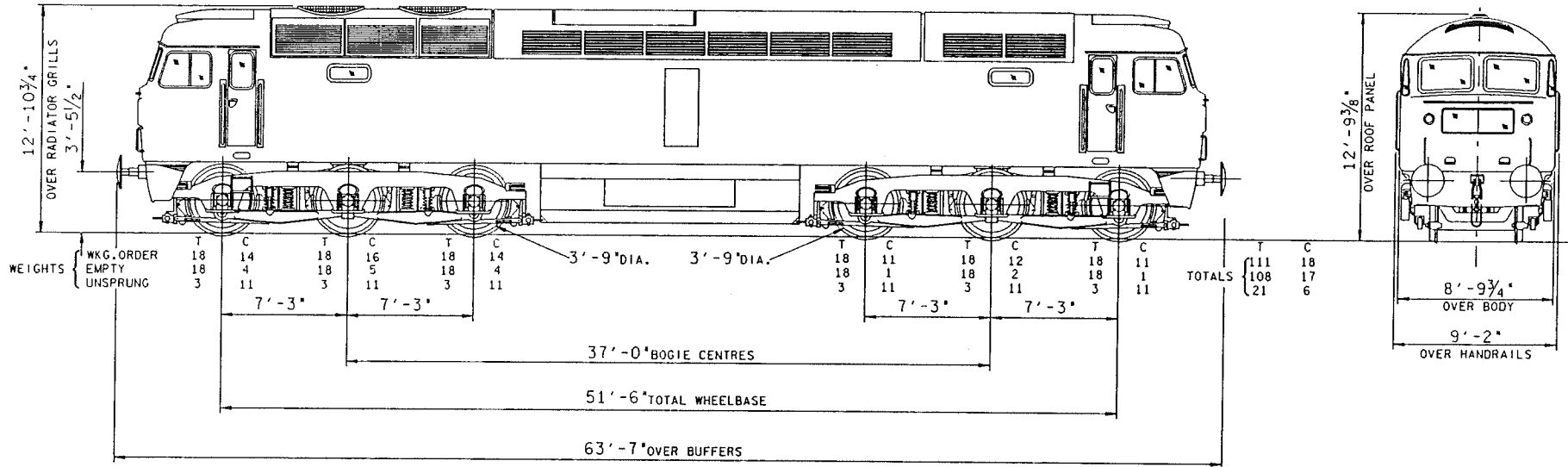
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/3

47-3a X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE	SULZER 12 L.D.A.28C.
	{ No. OF CYLS. & CYCLE	12 CYL. 4 STROKE.
MAIN GENERATOR	{ MAX. CONT. RATED OUTPUT	2580 H.P. AT 750 R.P.M.
	{ MAKE & TYPE	BRUSH TG 172-50 MK.1
TRACTION MOTORS	{ MAKE & TYPE	BRUSH TM 64-68 MK.1.A.
	{ No	SIX.
	{ TYPE OF SUSPENSION	NOSE.
	{ TYPE OF GEAR DRIVE	STRAIGHT SPUR.
PERFORMANCE	{ MAX TRACTIVE EFFORT	62,000 LB. AT 24.7% ADHESION
	{ CONT. TRACTIVE EFFORT	AT 7,500 AMPS. MAIN GENERATOR.
	{ RAIL H.P. AT CONT. RATING	30,000 LB. AT 26 M.P.H.
	{ FULL ENGINE OUTPUT	AT 4,260 AMPS. MAIN GENERATOR
DATA PANEL	{ WEIGHT	2,080 H.P.
	{ BRAKE FORCE	AVAILABLE BETWEEN 10.5 & 77 MPH
	{ E.T.H. INDEX	114 TONNES
	{ ROUTE AVAILABILITY	60 TONNES
	{ MAX. SPEED	6.
		75 M.P.H.

BRAKING	{ TYPE { FOR LOCO	STRAIGHT AIR & AUTO. AIR
	{ FOR TRAIN	AUTO. AIR & AIR CONT. VAC.
	{ BRAKE FORCE { % OF LOCO WEIGHT	88.9%.
	{ IN WORKING ORDER	
MULTIPLE WORKING	COUPLING SYMBOL	-
MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS.
CURVES	{ HORIZONTAL WITH 1/4 INS. GAUGE WIDENING	3.75 CHAINS.
	{ VERTICAL CONVEX	10 CHAINS.
	{ VERTICAL CONCAVE	10 CHAINS.
TRAIN HEATING	EQUIPMENT	NOT FITTED
TANK CAPACITIES	ENGINE FUEL	720 GALLONS.

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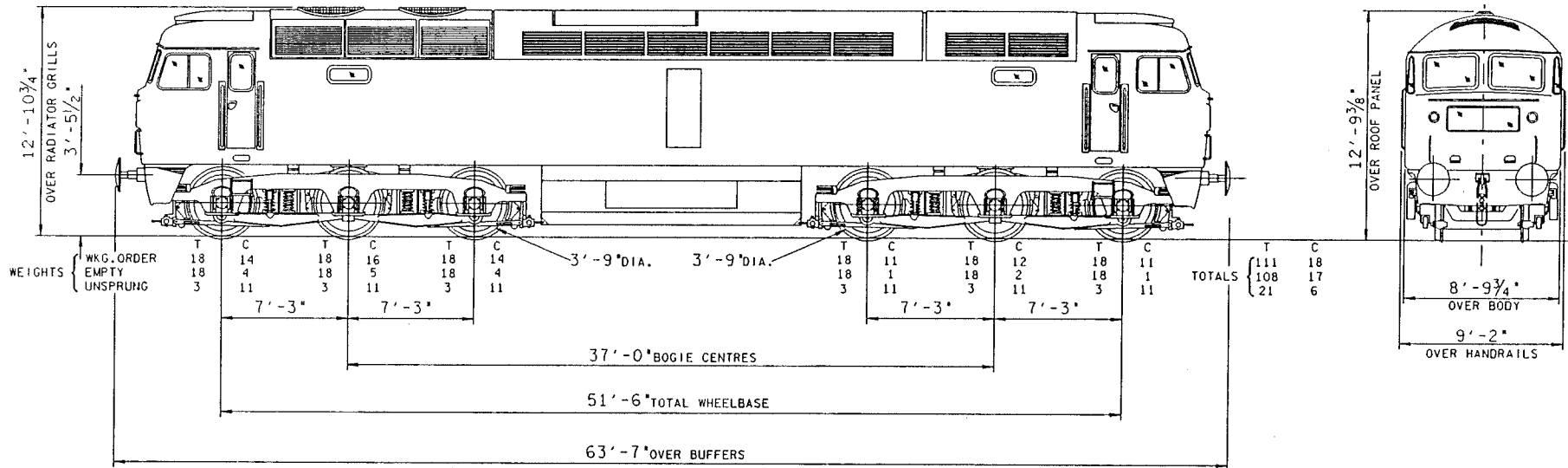
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/3

47-3b X

No.1 END.

No.2 END.



ENGINE	MAKE & TYPE	SULZER 12 L.D.A.28C.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO.AIR & AIR CONT.VAC.
MAIN GENERATOR	No. OF CYLS. & CYCLE	12 CYL. 4 STROKE.	MULTIPLE WORKING COUPLING SYMBOL	BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	88.9%.
	MAX.CONT.RATED OUTPUT	2580 H.P. AT 750 R.P.M.			
TRACTION MOTORS	MAKE & TYPE	BRUSH TG 172-50 MK.1	MINIMUM RADIUS CURVES	HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4INS.GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
	No	SIX.			
	TYPE OF SUSPENSION	NOSE.			
PERFORMANCE	TYPE OF GEAR DRIVE	STRAIGHT SPUR.	TRAIN HEATING EQUIPMENT	NOT FITTED	
	MAX TRACTIVE EFFORT	62,000 LB.AT 24.7% ADHESION AT 7,500 AMPS. MAIN GENERATOR.			
	CONT.TRACTIVE EFFORT	30,000 LB.AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR			
	RAIL H.P.AT CONT.RATING FULL ENGINE OUTPUT	2,080 H.P. AVAILABLE BETWEEN 10.5&77 MPH			
DATA PANEL	WEIGHT	114 TONNES	TANK CAPACITIES ENGINE FUEL	970 GALLONS.	
	BRAKE FORCE	60 TONNES			
	E.T.H.INDEX	6.			
	ROUTE AVAILABILITY MAX.SPEED	75 M.P.H.			

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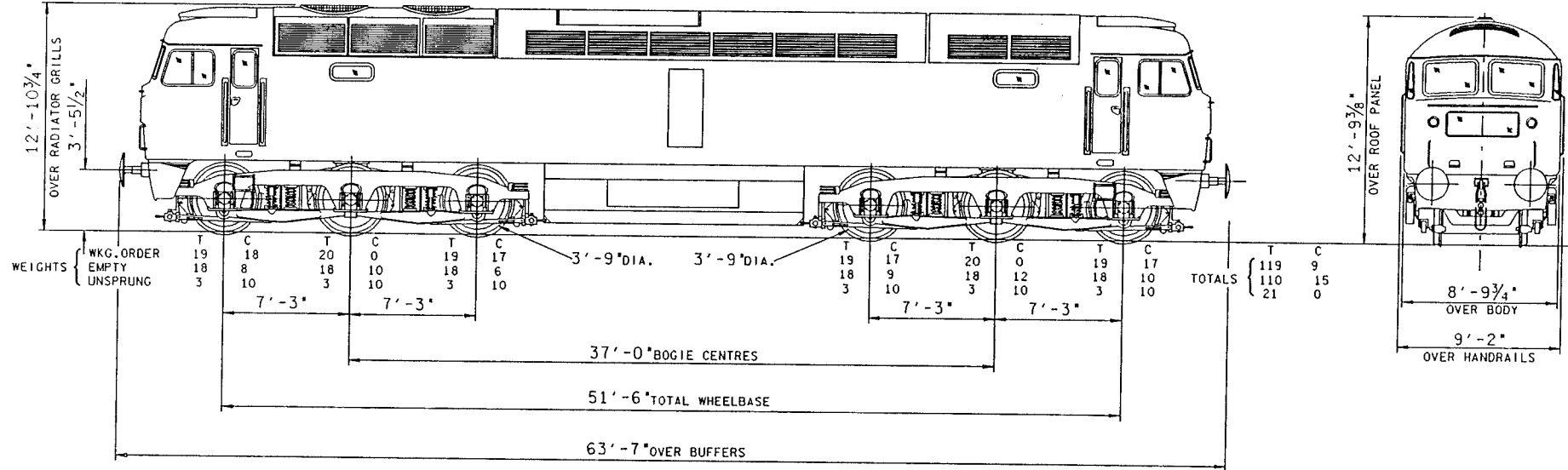
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4a X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE	SULZER 12 L.D.A.28C.
MAIN GENERATOR	{ No. OF CYLS. & CYCLE	12 CYL. 4 STROKE.
	{ MAX. CONT. RATED OUTPUT	2580 H.P. AT 750 R.P.M.
TRACTION MOTORS	{ MAKE & TYPE	BRUSH TM 64-68 .
	{ No	SIX.
PERFORMANCE	{ TYPE OF SUSPENSION	NOSE.
	{ TYPE OF GEAR DRIVE	STRAIGHT SPUR.
	{ MAX TRACTIVE EFFORT	55,000 LB. AT 20.6% ADHESION
	{ CONT. TRACTIVE EFFORT	AT 3,390 AMPS. MAIN GENERATOR.
DATA PANEL	{ RAIL H.P. AT CONT. RATING	2,080 H.P.
	{ FULL ENGINE OUTPUT	AVAILABLE BETWEEN 12.8&77 MPH
	{ WEIGHT	121 TONNES
DATA PANEL	{ BRAKE FORCE	60 TONNES
	{ E.T.H. INDEX	66.
	{ ROUTE AVAILABILITY	7.
	{ MAX. SPEED	95 M.P.H.

BRAKING	{ TYPE { FOR LOCO	STRAIGHT AIR & AUTO. AIR
	{ FOR TRAIN	
MULTIPLE WORKING COUPLING SYMBOL	{ BRAKE FORCE { % OF LOCO WEIGHT	83.2%.
	{ IN WORKING ORDER	
MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS.
	{ HORIZONTAL WITH 1/4 INS. GAUGE WIDENING	3.75 CHAINS.
	{ VERTICAL CONVEX	10 CHAINS.
	{ VERTICAL CONCAVE	10 CHAINS.
TRAIN HEATING EQUIPMENT	{ BOILER { MAKE & TYPE	SPANNER MARK 3.
	{ STEAMING CAPACITY	2500 LB/HR
TANK CAPACITIES	{ ELECTRIC ALTERNATOR { MAKE & TYPE	BRUSH TG 160-60 MK.4
	{ DRIVEN BY	MAIN ENGINE.
	{ CONT. OUTPUT	320 KW. AT 800 VOLTS.
TANK CAPACITIES	{ ENGINE FUEL }	720 GALLONS.
	{ BOILER FUEL }	
	{ BOILER WATER }	

JAN. 1992

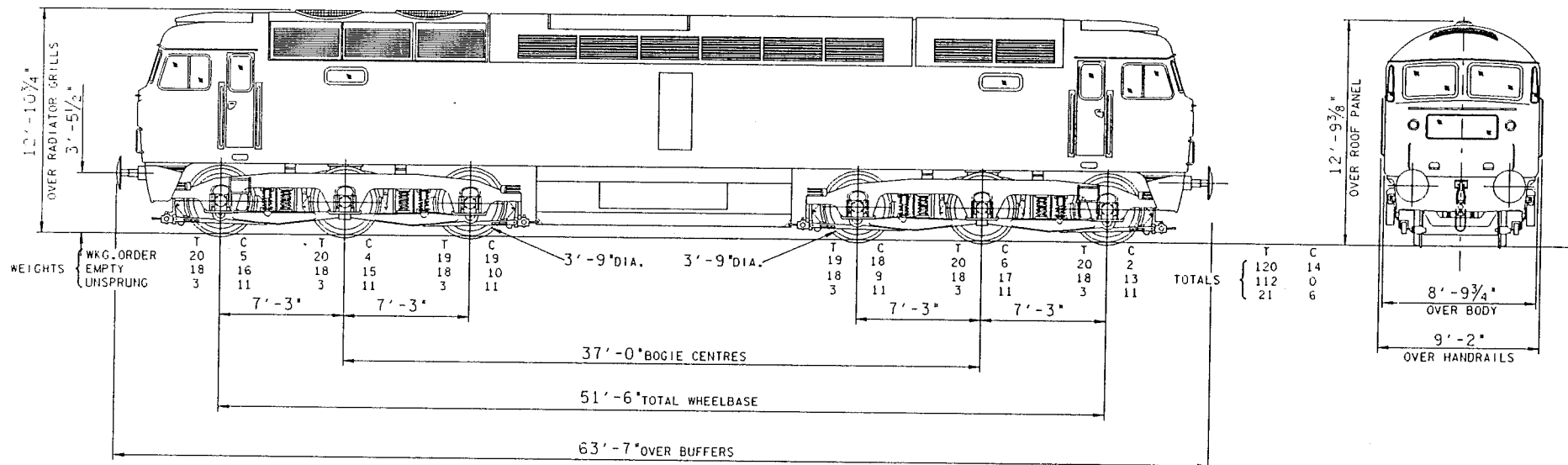
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4b X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 82.5%.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 160-60 MK.2	MULTIPLE WORKING COUPLING SYMBOL	-	
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM 64-68 MK.1. SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 22.9% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 3,750 AMPS. MAIN GENERATOR. AT 2,130 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5&77 MPH	TRAIN HEATING EQUIPMENT	{ BOILER { MAKE & TYPE STEAMING CAPACITY ELECTRIC ALTERNATOR { MAKE & TYPE DRIVEN BY CONT. OUTPUT	SPANNER MARK 3. 1850 LB/HR BRUSH. BL 100-30. MAIN ENGINE. 320 KW. AT 800 VOLTS.
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	123 TONNES 60 TONNES 66. 7. 95 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	720 GALLONS. 1250 GALLONS

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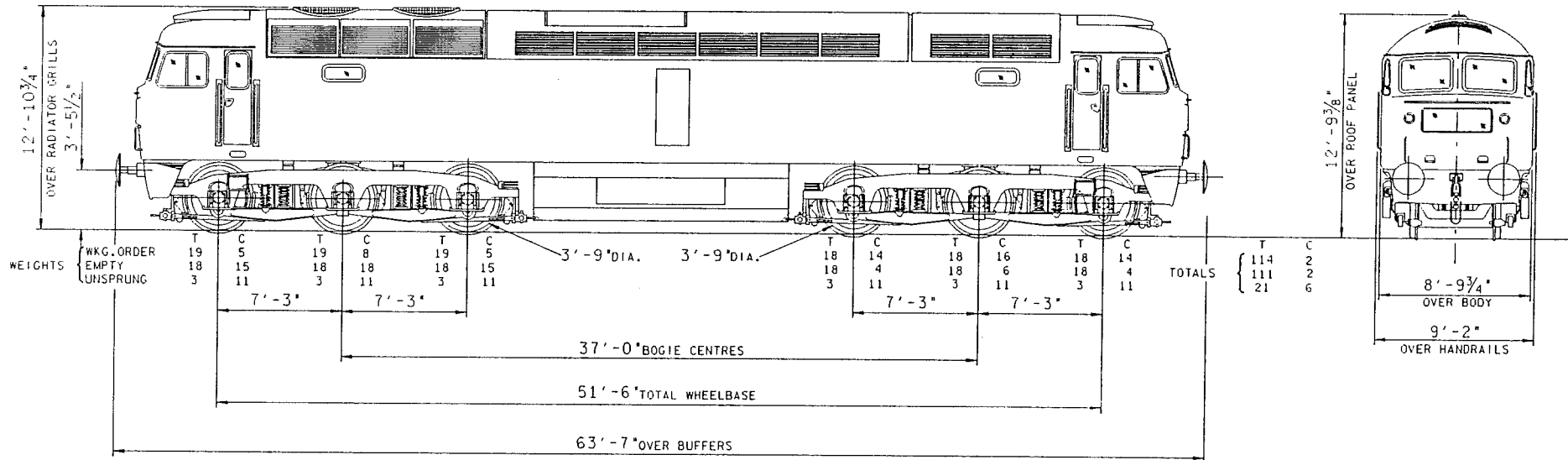
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4C X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 87.2%.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 160-60 MK.2	MULTIPLE WORKING	COUPLING SYMBOL	-
TRACTION MOTORS	{ No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 23.4% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 3,750 AMPS. MAIN GENERATOR. 30,000 LB. AT 26 M.P.H. AT 2,130 AMPS. MAIN GENERATOR 2,080 H.P.	TRAIN HEATING	ELECTRIC ALTERNATOR	{ MAKE & TYPE DRIVEN BY CONT. OUTPUT
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	AVAILABLE BETWEEN 10.5 & 77 MPH 116 TONNES 60 TONNES 66. 6 95 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL WATER (FOR URINAL)	BRUSH, BL 100-30. MAIN ENGINE. 320 KW. AT 800 VOLTS. 720 GALLONS. 9 GALLONS

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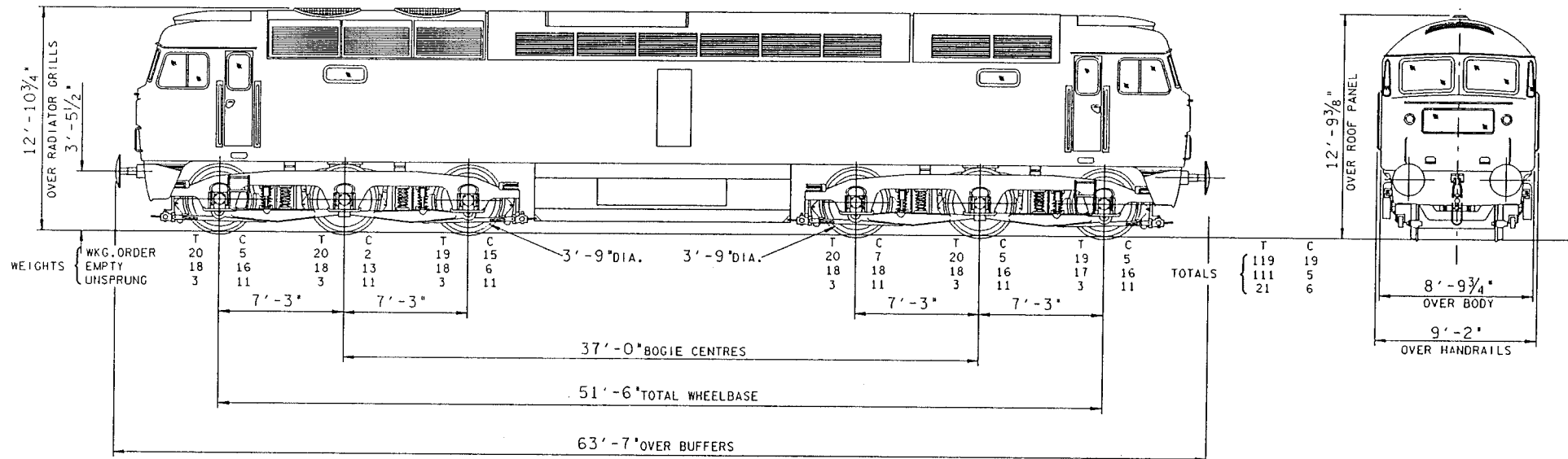
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4d X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE	SULZER 12 L.D.A.28C.
	{ NO. OF CYLS. & CYCLE	12 CYL. 4 STROKE.
	{ MAX. CONT. RATED OUTPUT	2580 H.P. AT 750 R.P.M.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 160-60 MK.4
	{ MAKE & TYPE	BRUSH TM 64-68 MK.1.A.
TRACTION MOTORS	{ NO	SIX.
	{ TYPE OF SUSPENSION	NOSE.
	{ TYPE OF GEAR DRIVE	STRAIGHT SPUR.
	{ MAX TRACTIVE EFFORT	62,000 LB. AT 23.1% ADHESION
	{ CONT. TRACTIVE EFFORT	30,000 LB. AT 26 M.P.H.
PERFORMANCE	{ RAIL H.P. AT CONT. RATING	2,080 H.P.
	{ FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10.5 & 77 MPH
	{ WEIGHT	122 TONNES
DATA PANEL	{ BRAKE FORCE	60 TONNES
	{ E.T.H. INDEX	66.
	{ ROUTE AVAILABILITY	7.
	{ MAX. SPEED	95 M.P.H.

BRAKING	{ TYPE { FOR LOCO	STRAIGHT AIR & AUTO. AIR
	{ FOR TRAIN	AUTO. AIR & AIR CONT. VAC.
	{ BRAKE FORCE { % OF LOCO WEIGHT	82.9%.
	{ IN WORKING ORDER	
MULTIPLE WORKING	{ COUPLING SYMBOL	-
MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS.
CURVES	{ HORIZONTAL WITH 1/4 INS. GAUGE WIDENING	3.75 CHAINS.
	{ VERTICAL CONVEX	10 CHAINS.
	{ VERTICAL CONCAVE	10 CHAINS.
	{ BOILER { MAKE & TYPE	SPANNER MARK 3.
	{ STEAMING CAPACITY	1850 LB/HR
TRAIN HEATING	{ ELECTRIC ALTERNATOR { MAKE & TYPE	BRUSH. BL 100-30.
EQUIPMENT	{ DRIVEN BY	MAIN ENGINE.
	{ CONT. OUTPUT	320 KW. AT 800 VOLTS.
TANK CAPACITIES	{ ENGINE FUEL }	720 GALLONS.
	{ BOILER FUEL }	
	{ BOILER WATER }	1250 GALLONS

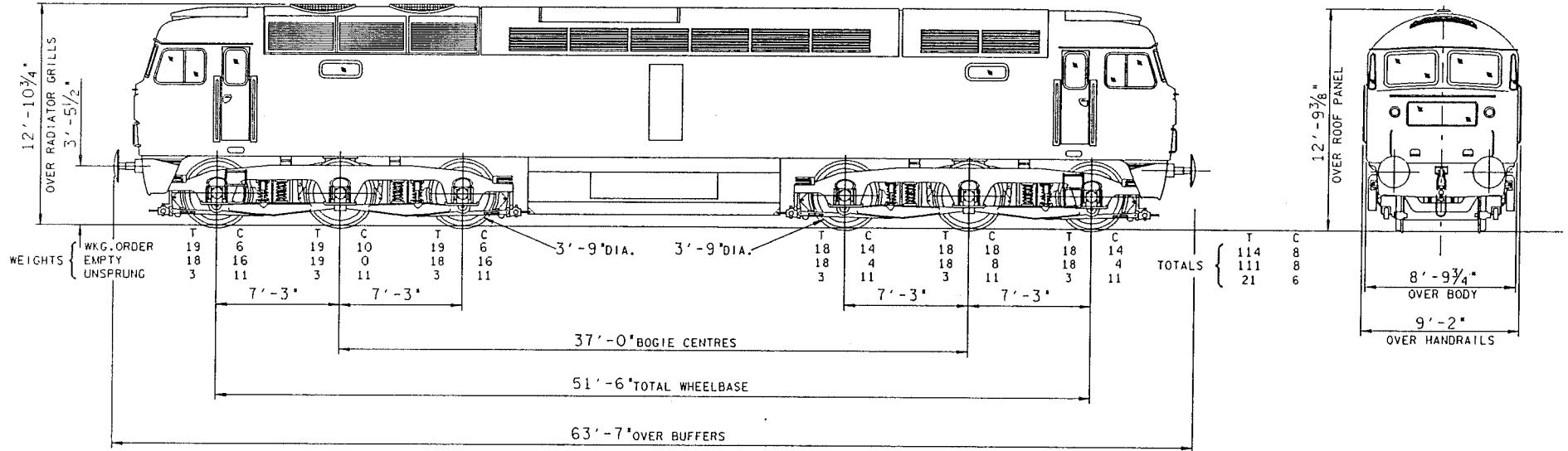
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4e X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 87%
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 160-60 MK.4	MULTIPLE WORKING	COUPLING SYMBOL	-
TRACTION MOTORS	{ No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 23.3% ADHESION AT 3,750 AMPS. MAIN GENERATOR.	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	30,000 LB. AT 26 M.P.H. AT 2,130 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	TRAIN HEATING EQUIPMENT	ELECTRIC ALTERNATOR { MAKE & TYPE DRIVEN BY CONT. OUTPUT	BRUSH. BL 100-30. MAIN ENGINE. 320 KW. AT 800 VOLTS.
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	116 TONNES 60 TONNES 66. 6 95 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL WATER (FOR URINAL)	720 GALLONS. 9 GALLONS

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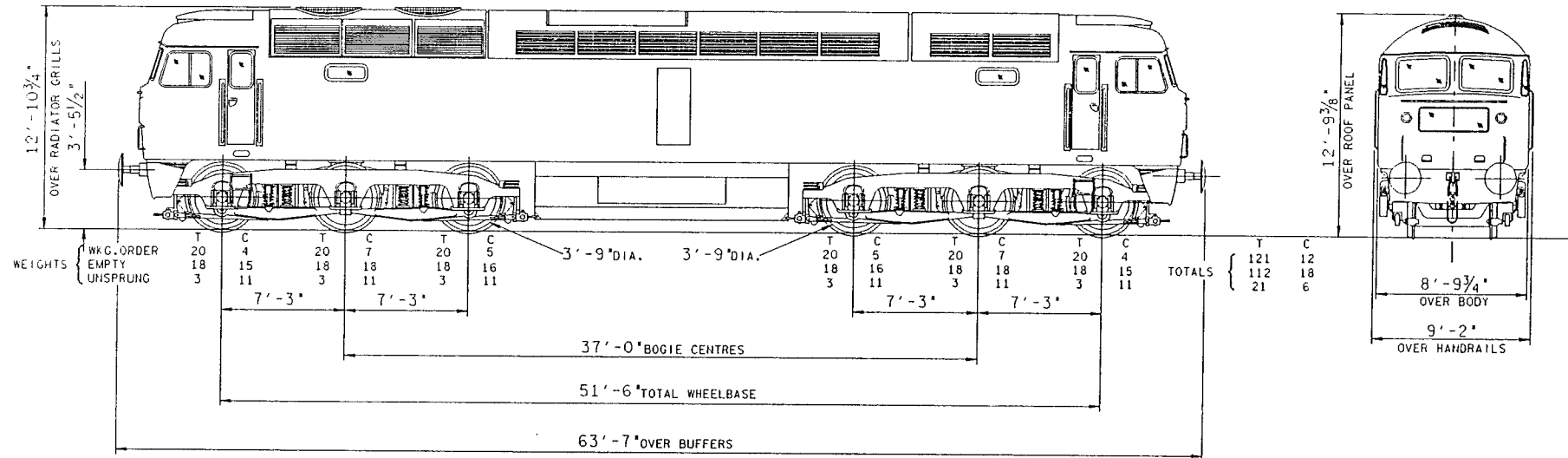
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4f X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE	SULZER 12 L.D.A.28C.
	{ NO. OF CYLS. & CYCLE	12 CYL. 4 STROKE.
MAIN GENERATOR	{ MAX. CONT. RATED OUTPUT	2580 H.P. AT 750 R.P.M.
	{ MAKE & TYPE	BRUSH TG 172-50 MK.1
TRACTION MOTORS	{ MAKE & TYPE	BRUSH TM 64-68 MK.1.A.
	{ NO	SIX.
	{ TYPE OF SUSPENSION	NOSE.
	{ TYPE OF GEAR DRIVE	STRAIGHT SPUR.
	{ MAX TRACTIVE EFFORT	62,000 LB. AT 22.8% ADHESION
		AT 7,500 AMPS. MAIN GENERATOR.
PERFORMANCE	{ CONT. TRACTIVE EFFORT	30,000 LB. AT 26 M.P.H.
		AT 4,260 AMPS. MAIN GENERATOR
	{ RAIL H.P. AT CONT. RATING	2,080 H.P.
	{ FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10.5 & 77 MPH
	{ WEIGHT	124 TONNES
DATA PANEL	{ BRAKE FORCE	60 TONNES
	{ E.T.H. INDEX	66.
	{ ROUTE AVAILABILITY	7.
	{ MAX. SPEED	95 M.P.H.

BRAKING	{ TYPE { FOR LOCO	STRAIGHT AIR & AUTO. AIR
	{ FOR TRAIN	AUTO. AIR & AIR CONT. VAC.
	{ BRAKE FORCE { % OF LOCO WEIGHT	81.9%.
	{ IN WORKING ORDER	
MULTIPLE WORKING	{ COUPLING SYMBOL	-
MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS.
CURVES	{ HORIZONTAL WITH 1/2 INS. GAUGE WIDENING	3.75 CHAINS.
	{ VERTICAL CONVEX	10 CHAINS.
	{ VERTICAL CONCAVE	10 CHAINS.
TRAIN HEATING	{ BOILER { MAKE & TYPE	SPANNER MARK 3.
EQUIPMENT	{ STEAMING CAPACITY	1850 LB/HR
	{ ELECTRIC ALTERNATOR { MAKE & TYPE	BRUSH. BL 100-30.
	{ DRIVEN BY	MAIN ENGINE.
	{ CONT. OUTPUT	320 KW. AT 800 VOLTS.
TANK CAPACITIES	{ ENGINE FUEL }	720 GALLONS.
	{ BOILER FUEL }	
	{ BOILER WATER }	1250 GALLONS

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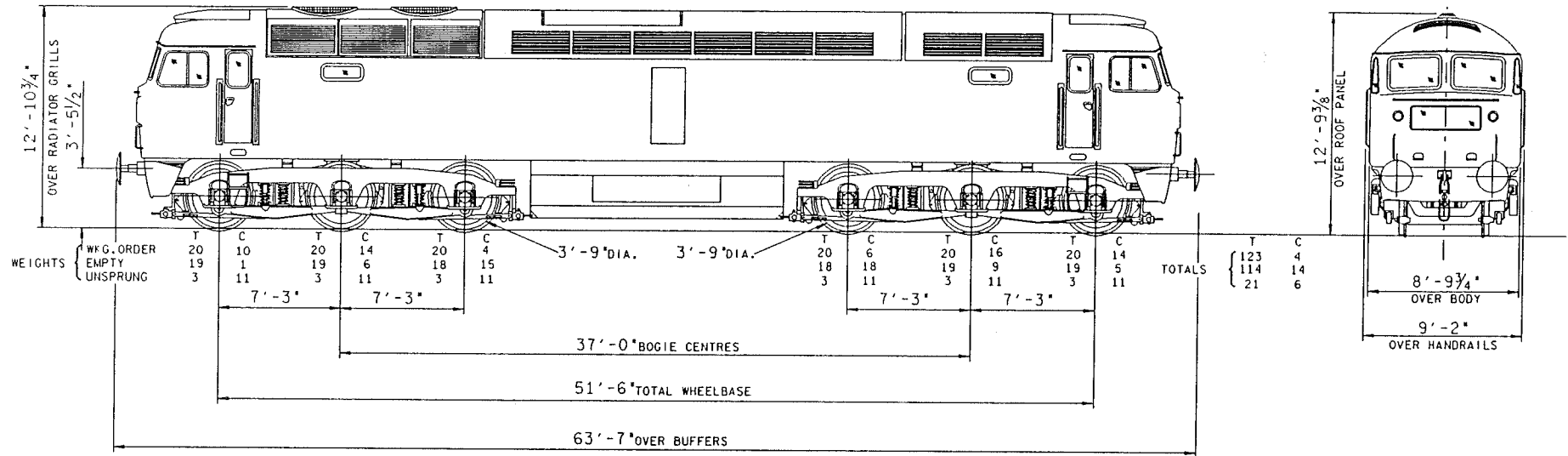
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4g X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 80.4%
MAIN GENERATOR	{ MAKE & TYPE No	BRUSH TG 172-50 MK.1 BRUSH TM 64-68 MK.1.A.	MULTIPLE WORKING COUPLING SYMBOL	-	
TRACTION MOTORS	{ TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 22.5% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 7,500 AMPS. MAIN GENERATOR. 30,000 LB. AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	TRAIN HEATING EQUIPMENT	{ BOILER { MAKE & TYPE STEAMING CAPACITY ELECTRIC ALTERNATOR { MAKE & TYPE DRIVEN BY CONT. OUTPUT	STONE VAPOR BR. 4625. 2750 LB/HR BRUSH. BL 100-30. MAIN ENGINE. 320 KW. AT 800 VOLTS.
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	125 TONNES 60 TONNES 66. 7. 95 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL BOILER FUEL BOILER WATER	720 GALLONS. 1200 GALLONS

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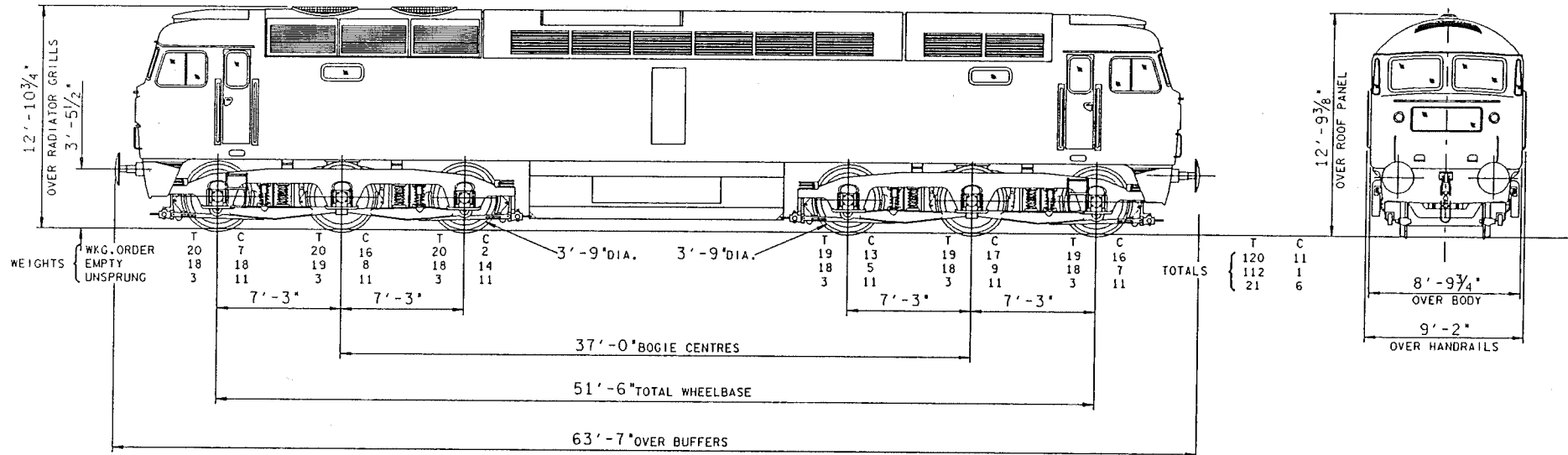
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4h X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 82.6%.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 172-50 MK.1	MULTIPLE WORKING COUPLING SYMBOL	-	
TRACTION MOTORS	{ MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM 64-68 MK.1.A. SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 23% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 7,500 AMPS. MAIN GENERATOR. 30,000 LB. AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	TRAIN HEATING EQUIPMENT	ELECTRIC ALTERNATOR { MAKE & TYPE DRIVEN BY CONT. OUTPUT	BRUSH. BL 100-30. MAIN ENGINE. 320 KW. AT 800 VOLTS.
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	123 TONNES 60 TONNES 66. 7. 95 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL WATER (FOR URINAL)	720 GALLONS. 1200 GALLONS

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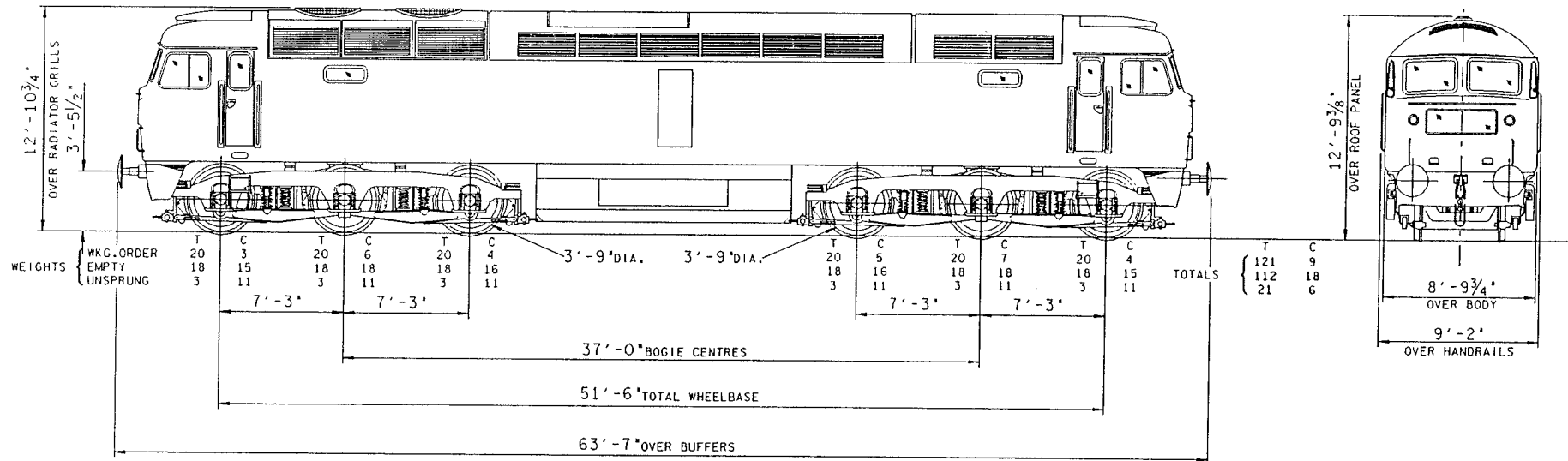
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4j X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE	SULZER 12 L.D.A.28C.
	{ No. OF CYLS. & CYCLE	12 CYL. 4 STROKE.
	{ MAX. CONT. RATED OUTPUT	2580 H.P. AT 750 R.P.M.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 172-50 MK.1
	{ MAKE & TYPE	BRUSH TM 64-68 MK.1.A.
TRACTION MOTORS	{ No	SIX.
	{ TYPE OF SUSPENSION	NOSE.
	{ TYPE OF GEAR DRIVE	STRAIGHT SPUR.
	{ MAX TRACTIVE EFFORT	62,000 LB. AT 22.8% ADHESION
	{ CONT. TRACTIVE EFFORT	AT 7,500 AMPS. MAIN GENERATOR
PERFORMANCE	{	30,000 LB. AT 26 M.P.H.
	{ RAIL H.P. AT CONT. RATING	AT 4,260 AMPS. MAIN GENERATOR
	{ FULL ENGINE OUTPUT	2,080 H.P.
	{ WEIGHT	AVAILABLE BETWEEN 10.5 & 77 MPH
	{ BRAKE FORCE	123 TONNES
DATA PANEL	{ E.T.H. INDEX	60 TONNES
	{ ROUTE AVAILABILITY	66.
	{ MAX. SPEED	7.
		95 M.P.H.

BRAKING	{ TYPE { FOR LOCO	STRAIGHT AIR & AUTO. AIR
	{ FOR TRAIN	
	{ BRAKE FORCE { % OF LOCO WEIGHT	81.9%
	{ IN WORKING ORDER	
MULTIPLE WORKING	COUPLING SYMBOL	-
MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS.
CURVES	{ HORIZONTAL WITH 1/4 INS. GAUGE WIDENING	3.75 CHAINS.
	{ VERTICAL CONVEX	10 CHAINS.
	{ VERTICAL CONCAVE	10 CHAINS.
TRAIN HEATING	{ BOILER { MAKE & TYPE	SPANNER MARK 3.
EQUIPMENT	{ STEAMING CAPACITY	1850 LB/HR
	{ ELECTRIC ALTERNATOR { MAKE & TYPE	BRUSH, BL 100-30.
	{ DRIVEN BY	MAIN ENGINE.
	{ CONT. OUTPUT	320 KW. AT 800 VOLTS.
TANK CAPACITIES	{ ENGINE FUEL	720 GALLONS
	{ BOILER FUEL	
	{ BOILER WATER	

JAN. 1992

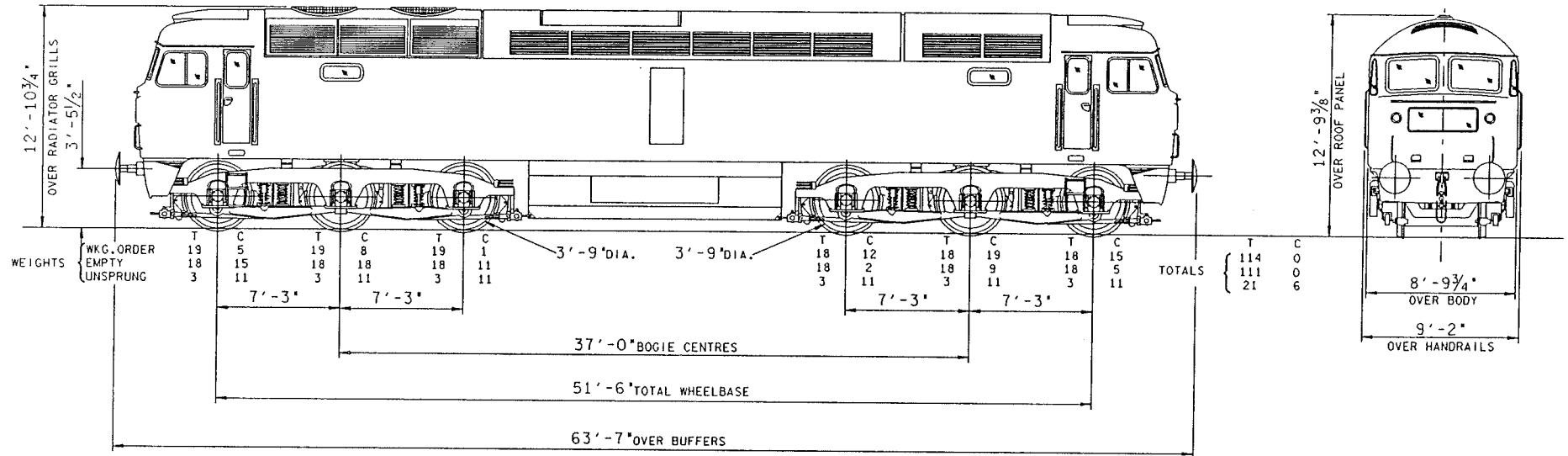
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4k X

No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A. 28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 172-50 MK.1
TRACTION MOTORS	{ MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM 64-68 MK.1.A. SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 24.3% ADHESION AT 7,500 AMPS. MAIN GENERATOR
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT WEIGHT	30,000 LB. AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5877 MPH 116 TONNES
DATA PANEL	{ BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	60 TONNES 66. 6 95 M.P.H.

BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 87.3%
MULTIPLE WORKING COUPLING SYMBOL		-
MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/2 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
TRAIN HEATING EQUIPMENT	ELECTRIC ALTERNATOR { MAKE & TYPE DRIVEN BY CONT. OUTPUT	BRUSH. BL 100-30. MAIN ENGINE. 320 KW. AT 800 VOLTS.
TANK CAPACITIES	{ ENGINE FUEL WATER. (FOR URINAL)	720 GALLONS 9 GALLONS

JAN. 1992

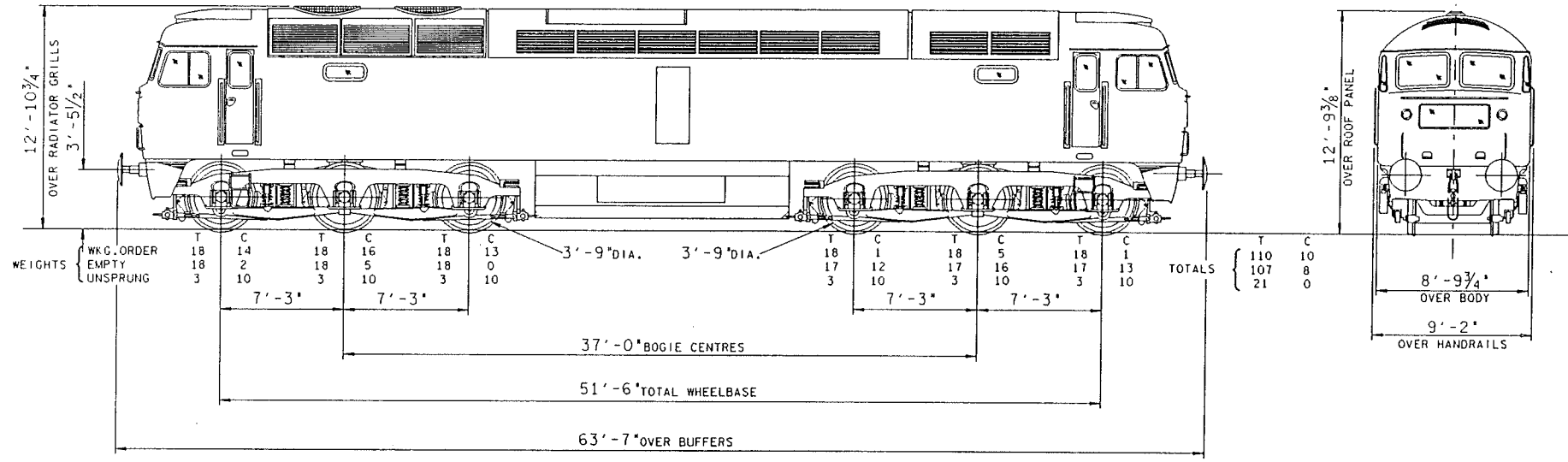
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-41	X
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No.1 END.

No.2 END.



ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 89.9%	
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 160-60	MULTIPLE WORKING	COUPLING SYMBOL	-	
TRACTION MOTORS	{ MAKE & TYPE No. TYPE OF SUSPENSION TYPE OF GEAR DRIVE	BRUSH TM 64-68 SIX. NOSE. STRAIGHT SPUR.	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING CURVES VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.	
PERFORMANCE	{ MAX TRACTIVE EFFORT CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	55,000 LB. AT 22.2% ADHESION AT 3,390 AMPS MAIN GENERATOR 30,000 LB. AT 26 M.P.H. AT 2,130 AMPS MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 12.8 & 77 MPH	TRAIN HEATING	EQUIPMENT ELECTRIC GENERATOR	{ MAKE & TYPE DRIVEN BY CONT. OUTPUT	BRUSH TG 160-16 MAIN ENGINE. 320 KW. AT 800 VOLTS.
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	112 TONNES 60 TONNES 66. 6 95 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL WATER [FOR URINAL]	720 GALLONS 9 GALLONS	

JAN. 1992

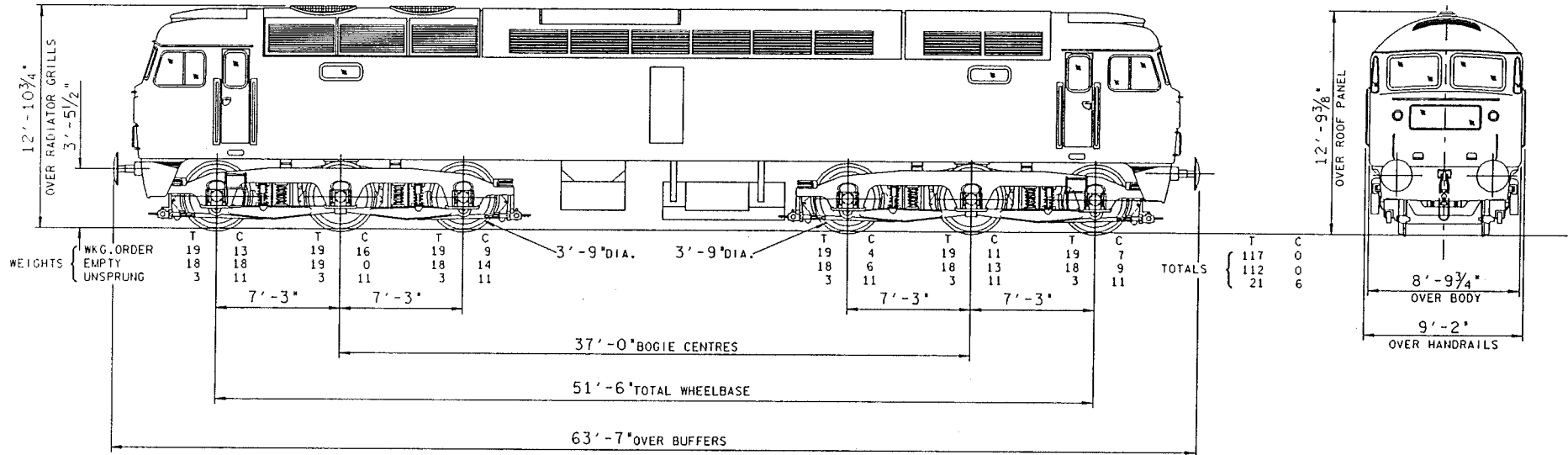
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4m X

No.1 END.

No.2 END.



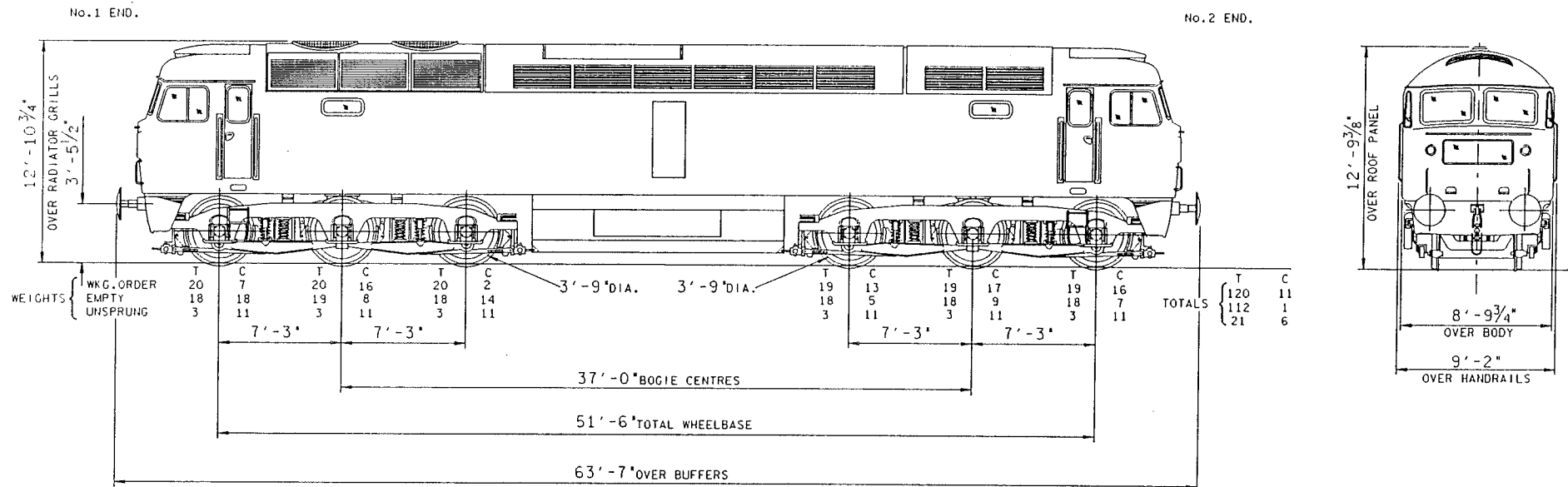
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A. 28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 85.1%
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 172-50 MK.1	MULTIPLE WORKING COUPLING SYMBOL	-	
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM 64-68 MK.1.A. SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 23.6% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 3/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 7,500 AMPS. MAIN GENERATOR 30,000 LB. AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	TRAIN HEATING EQUIPMENT	ELECTRIC ALTERNATOR { MAKE & TYPE DRIVEN BY CONT. OUTPUT	BRUSH, BL 100-30. MAIN ENGINE. 320 KW. AT 800 VOLTS.
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	119 TONNES 60 TONNES 66. 6 95 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL WATER. (FOR URINAL)	1220 GALLONS 9 GALLONS

JAN. 1992

2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-4n X



ENGINE	MAKE & TYPE	SULZER 12 L.D.A.28C.	BRAKING	TYPE	{ FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR
	No. OF CYLS. & CYCLE	12 CYL. 4 STROKE.		BRAKE FORCE	{ % OF LOCO WEIGHT IN WORKING ORDER	AUTO. AIR & AIR CONT. VAC.
MAIN GENERATOR	MAX. CONT. RATED OUTPUT	2580 H.P. AT 750 R.P.M.				82.6%.
	MAKE & TYPE	BRUSH TG 172-50 MK.1	MULTIPLE WORKING	COUPLING SYMBOL		-
TRACTION MOTORS	MAKE & TYPE	BRUSH TM 64-68 MK.1.A.		MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
	No	SIX.		TRACTION HEATING	ELECTRIC ALTERNATOR	{ MAKE & TYPE DRIVEN BY CONT. OUTPUT
	TYPE OF SUSPENSION	NOSE.		EQUIPMENT		BRUSH, BL 100-30. MAIN ENGINE.
	TYPE OF GEAR DRIVE	STRAIGHT SPUR.		TANK CAPACITIES	{ ENGINE FUEL WATER (FOR URINAL)	320 KW. AT 800 VOLTS.
	MAX TRACTIVE EFFORT	62,000 LB. AT 23% ADHESION				720 GALLONS.
PERFORMANCE	CONT. TRACTIVE EFFORT	AT 7,500 AMPS. MAIN GENERATOR.				1200 GALLONS
	RAIL H.P. AT CONT. RATING	30,000 LB. AT 26 M.P.H.				
	FULL ENGINE OUTPUT	AT 4,260 AMPS. MAIN GENERATOR				
	WEIGHT	2,080 H.P.				
DATA PANEL	BRAKE FORCE	AVAILABLE BETWEEN 10.5 & 77 MPH				
	E.T.H. INDEX	123 TONNES				
	ROUTE AVAILABILITY	60 TONNES				
	MAX. SPEED	66.				
		7.				
		95 M.P.H.				

JAN. 1992

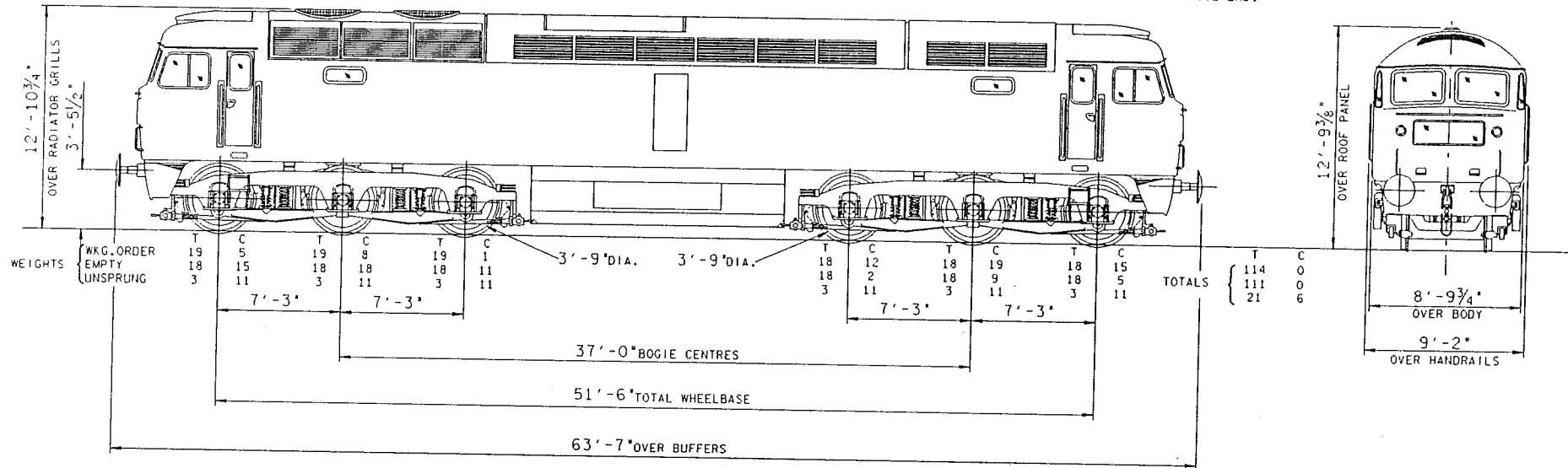
2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/4

47-40 X

No.1 END.

No.2 END.



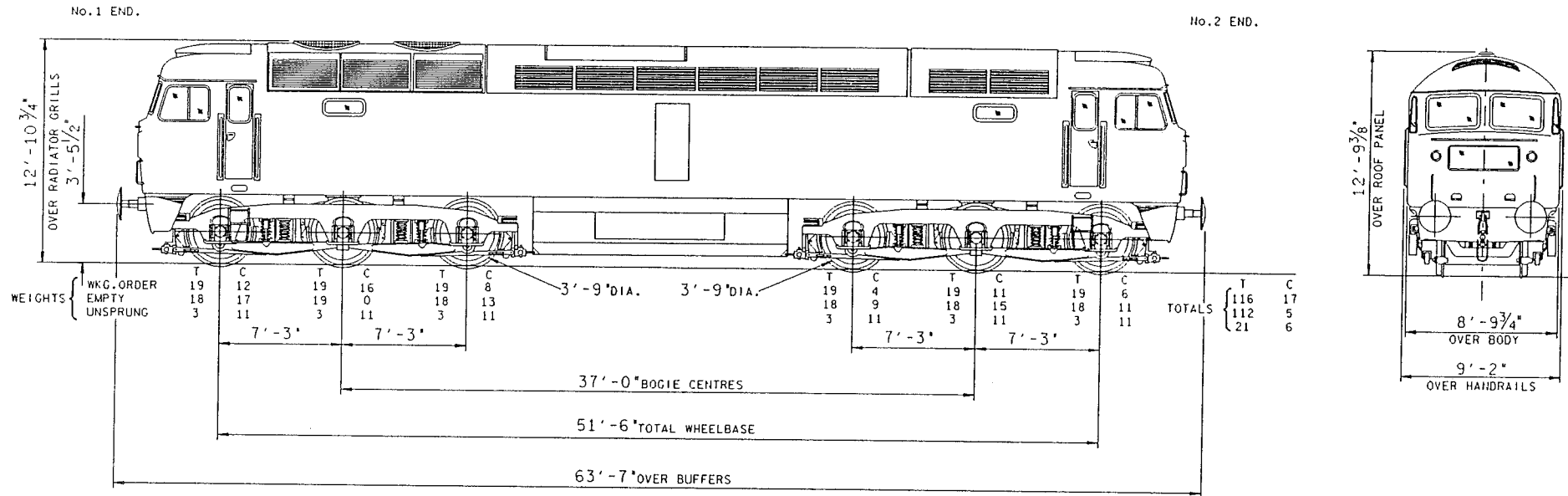
ENGINE	MAKE & TYPE	SULZER 12 L.D.A.28C.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT.VAC.
MAIN GENERATOR	No. OF CYLS. & CYCLE	12 CYL. 4 STROKE.	MULTIPLE WORKING	BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	87.3%
	MAX. CONT. RATED OUTPUT	2580 H.P. AT 750 R.P.M.			
TRACTION MOTORS	MAKE & TYPE	BRUSH TG 172-50 MK.1	MINIMUM RADIUS CURVES	COUPLING SYMBOL { HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
	No	SIX.			
	TYPE OF SUSPENSION	NOSE.			
	TYPE OF GEAR DRIVE	STRAIGHT SPUR.			
PERFORMANCE	MAX TRACTIVE EFFORT	62,000 LB. AT 24.3% ADHESION AT 7,500 AMPS. MAIN GENERATOR 30,000 LB. AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR	TRAIN HEATING EQUIPMENT	ELECTRIC ALTERNATOR { MAKE & TYPE DRIVEN BY CONT. OUTPUT	BRUSH. BL 100-30. MAIN ENGINE. 320 KW. AT 800 VOLTS.
	CONT. TRACTIVE EFFORT				
	RAIL H.P. AT CONT. RATING	2,080 H.P.			
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 10.5 & 77 MPH			
DATA PANEL	WEIGHT	116 TONNES	TANK CAPACITIES { ENGINE FUEL WATER. (FOR URINAL)	720 GALLONS 9 GALLONS	
	BRAKE FORCE	60 TONNES			
	E.T.H. INDEX	75.			
	ROUTE AVAILABILITY	6			
	MAX. SPEED	95 M.P.H.			

JAN. 1992

2580 H.P. BRUSH TYPE 4.C-C DIESEL ELECTRIC LOCOMOTIVE.
 FITTED FOR PUSH/PULL

CLASS 47/4

47-7a	X
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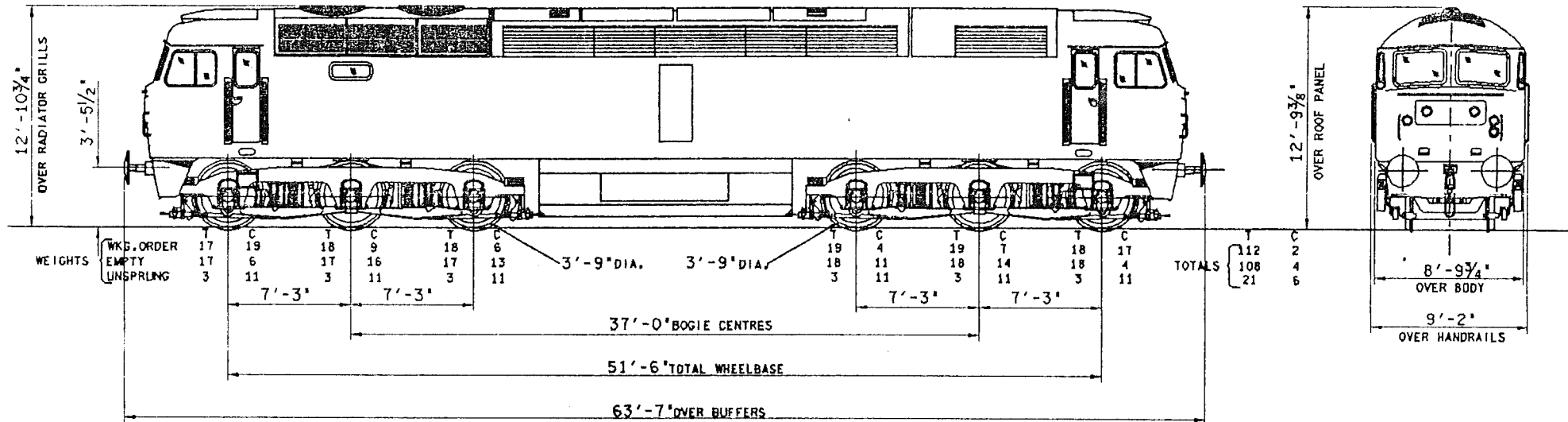
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	SULZER 12 L.D.A.28C. 12 CYL. 4 STROKE. 2580 H.P. AT 750 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR & AIR CONT. VAC. 85.2%.
MAIN GENERATOR	{ MAKE & TYPE	BRUSH TG 172-50 MK.1	MULTIPLE WORKING	COUPLING SYMBOL	-
TRACTION MOTORS	{ No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	SIX. NOSE. STRAIGHT SPUR. 62,000 LB. AT 23.7% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH WINS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS. 3.75 CHAINS. 10 CHAINS. 10 CHAINS.
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 7,500 AMPS. MAIN GENERATOR. 30,000 LB. AT 26 M.P.H. AT 4,260 AMPS. MAIN GENERATOR 2,080 H.P. AVAILABLE BETWEEN 10.5 & 77 MPH	TRAIN HEATING	ELECTRIC ALTERNATOR	{ MAKE & TYPE DRIVEN BY CONT. OUTPUT
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	119 TONNES 60 TONNES 66. 6. 100 M.P.H.	TANK CAPACITIES	{ ENGINE FUEL WATER (FOR URINAL)	BRUSH. BL 100-30. MAIN ENGINE. 320 KW. AT 800 VOLTS. 1295 GALLONS. 9 GALLONS

JAN. 1992

3300 H.P. BRUSH TYPE 4, C-C DIESEL ELECTRIC LOCOMOTIVE.

CLASS 47/9

47-9a A

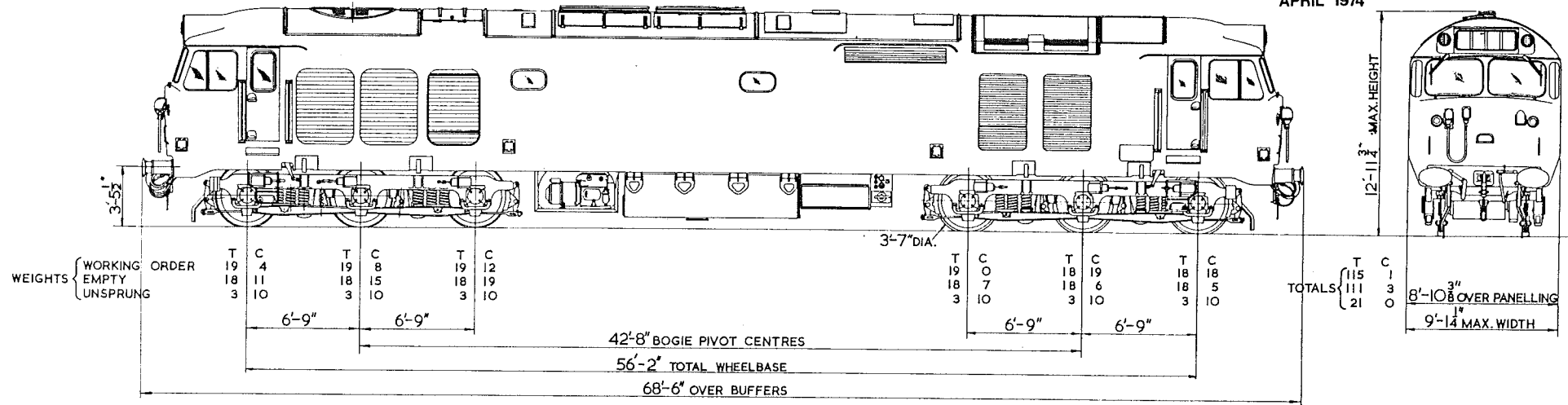


ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	RUSTON PAXMAN RP12 RK3CT 12 CYL. 4 STROKE. 3300 H.P. AT 900 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO AIR. AUTO. AIR.
MAIN ALTERNATOR	MAKE & TYPE	BRUSH BA 1101	MULTIPLE WORKING	COUPLING SYMBOL	
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM.64-68 MK.1.A. SIX. NOSE. STRAIGHT SPUR. 57,325 LB. AT 22.0% ADHESION AT 3540 AMPS. MAIN ALTERNATOR	MINIMUM RADIUS	BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	88.7%
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 2250 AMPS. MAIN ALTERNATOR 32,600 LB. AT 32.3 M.P.H. 2808 H.P.	CURVES		HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	117 TONS 60 TONS - 6. 75 M.P.H.	TRAIN HEATING EQUIPMENT	TANK CAPACITIES	ENGINE FUEL 1010 GALLONS

NOV. 1988

No. 1 END

APRIL 1974



ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 16 CSVT	BRAKING	TYPE	{ FOR LOCO. FOR TRAIN	STRAIGHT AIR & AUTO. AIR
	No. OF CYLS. & CYCLE	16 CYL. 4 STROKE		BRAKE FORCE	{ % OF LOCO. WEIGHT IN WORKING ORDER	AUTO. AIR & CONT. VAC.
MAIN GENERATOR	MAX. CONT. RATED OUTPUT	2700 H.P. AT 850 R.P.M.	SPEED			84.9%
	MAKE & TYPE	ENGLISH ELECTRIC TYPE EE 840/4B	MINIMUM RADIUS			100 M.P.H.
TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC EE 53B/5A	CURVES			4 CHAINS
	No.	SIX				3 1/2 CHAINS
	TYPE OF SUSPENSION	NOSE				10 CHAINS
	TYPE OF GEAR DRIVE	SINGLE REDUCTION	TRAIN HEATING			10 CHAINS
	MAX. TRACTIVE EFFORT	48500 LB. AT 18.8% ADHESION	EQUIPMENT			ENGLISH ELECTRIC EE 915/1B
PERFORMANCE	CONT. TRACTIVE EFFORT	33000 LB. AT 23.5 M.P.H.				MAIN ENGINE
	RAIL H.P. AT CONT. RATING	AT 1800 AMPS MAIN GENERATOR	TANK CAPACITIES			320 KW. AT 850 VOLTS
	FULL ENGINE OUTPUT	2070 H.P.	ENGINE FUEL			1055 GALLONS
		AVAILABLE BETWEEN 15 & 87 M.P.H.				

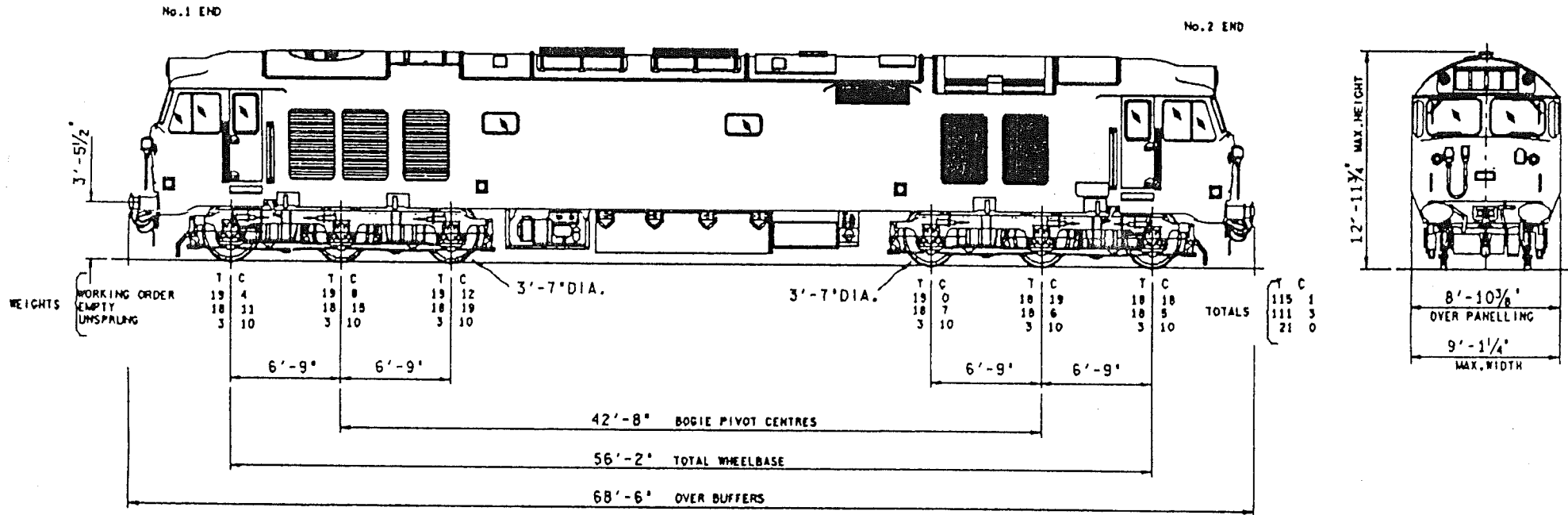
2700 H.P. E.E. Co. TYPE 4 C-C DIESEL ELECTRIC LOCOMOTIVE
CLASS 50

50-a X

2700 H.P.E.E.Co.TYPE 4C-C DIESEL ELECTRIC LOCOMOTIVE.

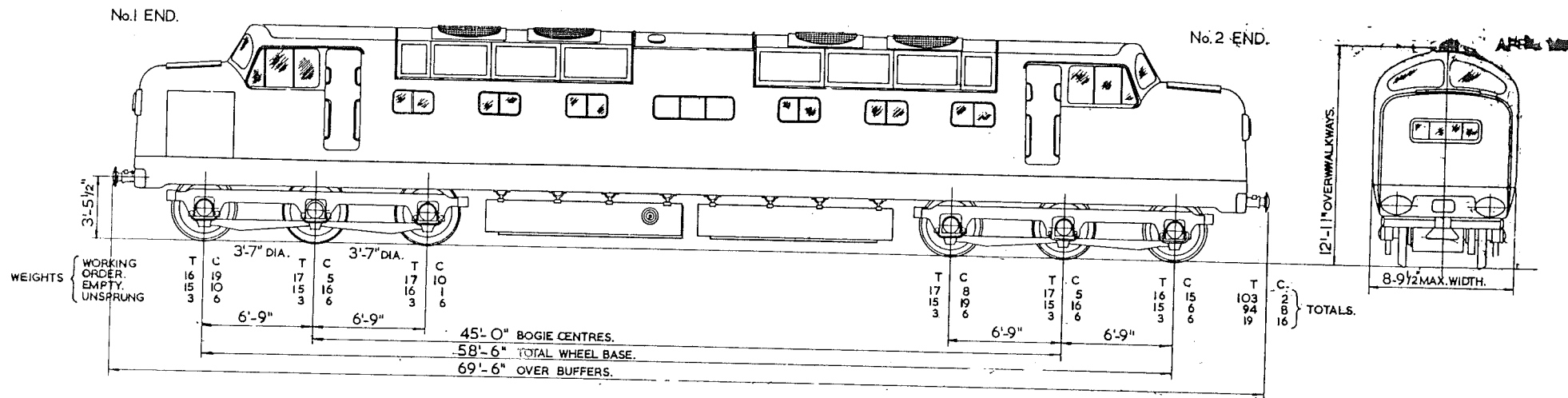
CLASS 50

50-0b	X
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ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE	ENGLISH ELECTRIC 16 CSVT 16 CYL.4 STROKE	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO.AIR
MAIN GENERATOR	MAX.CONT.RATED OUTPUT	2700 H.P.AT 850 R.P.M.		BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	AUTO.AIR & CONT.VAC.
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	ENGLISH ELECTRIC TYPE EE 840/4B ENGLISH ELECTRIC EE 538/5A SIX NOSE. SINGLE REDUCTION, 48500 LB.AT 18.8% ADHESION	MULTIPLE WORKING	COUPLING SYMBOL	ORANGE SQUARE
PERFORMANCE	CONT.TRACTIVE EFFORT	AT 2400 AMPS.MAIN GENERATOR 33000 LB.AT 23.5 M.P.H. AT 1800 AMPS, MAIN GENERATOR,	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4"INS.GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	4 CHAINS
DATA PANEL	RAIL H.P.AT CONT.RATING FULL ENGINE OUTPUT WEIGHT BRAKE FORCE E.T.H.INDEX ROUTE AVAILABILITY MAX.SPEED	2070 H.P. AVAILABLE BETWEEN 15 & 87 M.P.H. 117 TONNES 59 TONNES 61 6 60 M.P.H.	TRAIN HEATING EQUIPMENT	ELECTRIC GENERATOR { MAKE & TYPE DRIVEN BY CONT.OUTPUT	10 CHAINS
			TANK CAPACITY	ENGINE FUEL	10 CHAINS ENGLISH ELECTRIC EE 915/18 MAIN ENGINE 320KW.AT 850 VOLTS. 1055 GALLONS

MARCH 1989

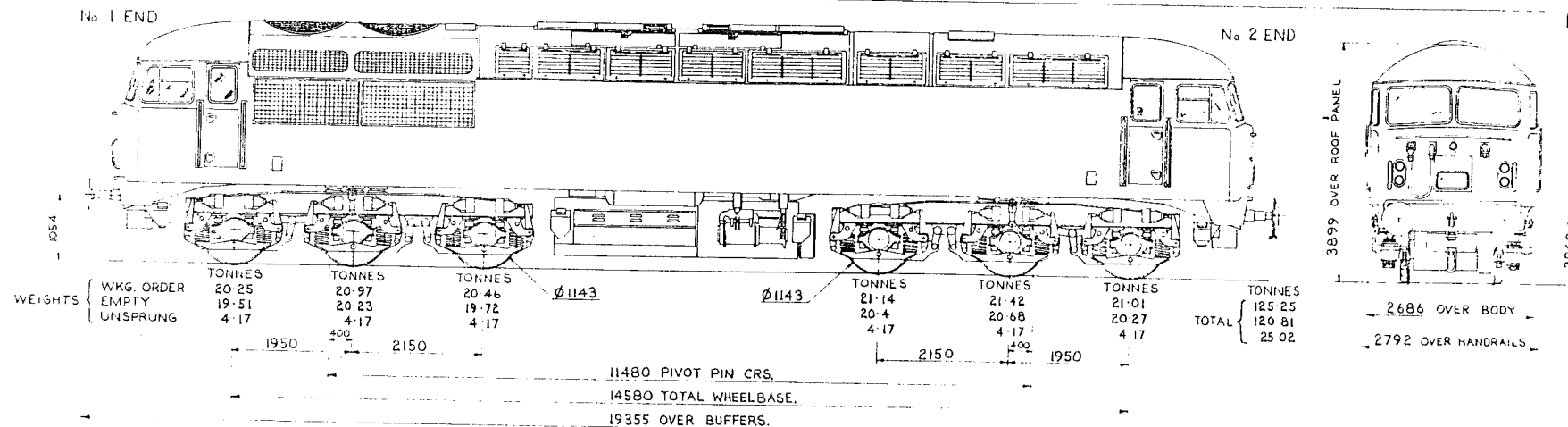


ENGINE.	{ No. MAKE & TYPE. No. OF CYLS. & CYCLE.	TWO NAPIER DELTIC 18. 18 CYLS (OPPOSED PISTONS) PER ENG. 2 STROKE.	BRAKING.	{ TYPE. { FOR LOCO. FOR TRAIN.	STRAIGHT AIR & AUTO. AIR. AUTO AIR & AIR CONT. VAC.
MAIN GENERATOR.	{ MAX. CONT. RATED OUTPUT. No. MAKE & TYPE.	1650 H.P. AT 1500 R.P.M. TWO ENGLISH ELECTRIC, TYPE E.E. 829.	SPEED.	{ BRAKE FORCE. { % OF LOCO. WEIGHT IN WORKING ORDER.	83.2%.
TRACTION MOTORS.	{ MAKE & TYPE. No. TYPE OF SUSPENSION. TYPE OF GEAR DRIVE. MAX. TRACTIVE EFFORT.	ENGLISH ELECTRIC, E.E. 538. SIX. NOSE. SINGLE REDUCTION.	MINIMUM RADIUS CURVES	{ MAX. PERMITTED SERVICE SPEED. HORIZONTAL WITHOUT GAUGE WIDENING. HORIZONTAL WITH 3/4 INS. GAUGE WIDENING. VERTICAL CONVEX VERTICAL CONCAVE	100 M.P.H. 4 CHAINS. 38 CHAINS 11 CHAINS 11 CHAINS
PERFORMANCE	{ CONT. TRACTIVE EFFORT. RAIL H.P. AT CONT. RATING. FULL ENGINE OUTPUT.	50,000 LB. AT 21.7% ADHESION. AT 2400 AMPS. MAIN GENERATORS. 30,500 LB. AT 32.5 M.P.H. AT 1,650 AMPS. MAIN GENERATORS. 2,640 H.P. AVAILABLE BETWEEN 18.5 & 100 M.P.H.	TRAIN HEATING EQUIPMENT	{ BOILER { MAINT & TYPE STEAMING CAPACITY ELECTRIC FROM MAIN GENERATOR ENGINE FUEL BOILER FUEL BOILER WATER	SPANNER MK. JJ 1500 LB/HR. UP TO 344 KW. AT 860 VOLTS 826 GALLONS 830 GALLONS

3300 H.P. E.E. TYPE 5 C-C DIESEL ELECTRIC LOCOMOTIVE.
CLASS 55.

55- a X

DEC 81



ENGINE.	MAKE & TYPE	RUSTON 16RK3CT	BRAKING.	TYPE.	FOR LOCO.	STRAIGHT AIR & AUTO. AIR.
	No. OF CYLS. & CYCLE.	16 CYL. 4 STROKE.		FOR TRAIN.		AUTO. AIR.
MAIN ALTERNATOR.	MAX. CONT. RATED OUTPUT	2460 kW. AT 900 RPM.		BRAKE FORCE. % OF LOCO		
	MAKE & TYPE.	BRUSH BA1101A		WEIGHT IN WORKING ORDER.		71.7%
	MAKE & TYPE.	BRUSH TM 73-62	SPEED.	MAX. PERMITTED SERVICE SPEED.		130 km/h.
TRACTION MOTORS.	No.	SIX		HORIZONTAL WITHOUT GAUGE WIDENING.		80 m.
	TYPE OF SUSPENSION.	NOSE	MINIMUM RADIUS	HORIZONTAL WITH 20mm. GAUGE WIDENING.		74 m.
	TYPE OF GEAR DRIVE.	SINGLE REDUCTION.	CURVES.	VERTICAL CONVEX.		200 m.
	MAX. TRACTIVE EFFORT.	275000N AT 22% ADHESION		VERTICAL CONCAVE.		200 m.
	AT 3050A TRACTION CURRENT.		TRAIN HEATING			
PERFORMANCE.	CONT. TRACTIVE EFFORT.	240000N AT 27 km/h	EQUIPMENT.			
	AT 2730A TRACTION CURRENT.		TANK CAPACITY.	ENGINE FUEL.		5228 LITRES.
	POWER AT RAIL (CONT. RATING).	1790 kW				
	FULL ENGINE OUTPUT.	AVAILABLE BETWEEN 26 & 130 km/h.				

2460kW BRUSH Co-Co DIESEL ELECTRIC LOCOMOTIVE.

CLASS 56

56-a A

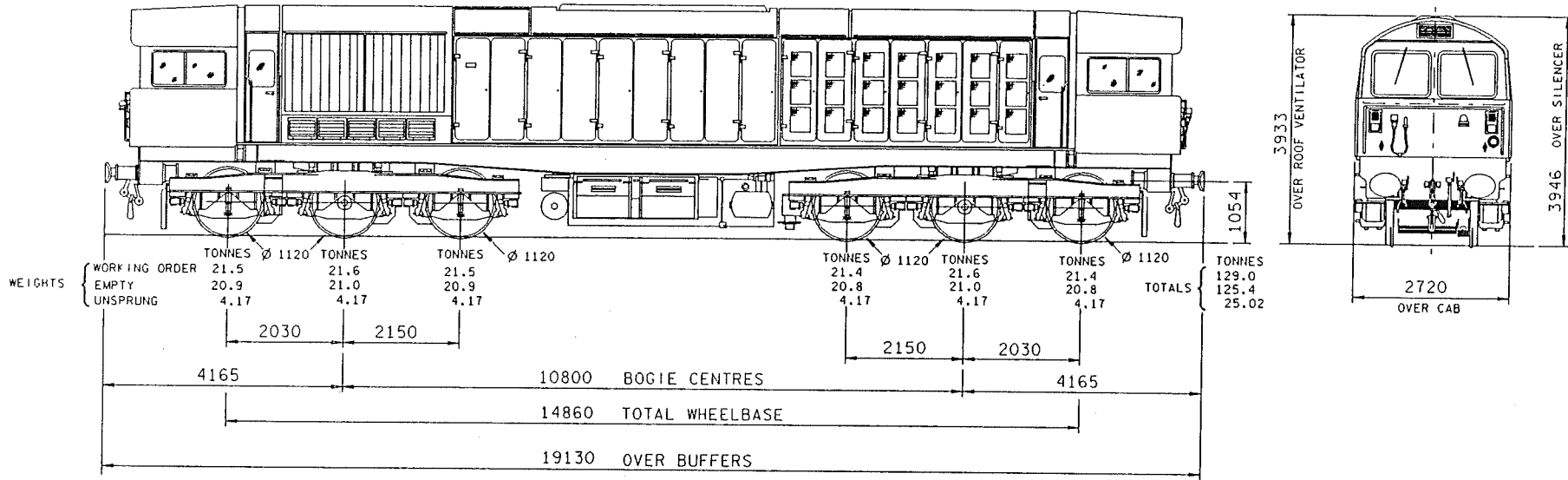
2460 kW B.R.Co-Co DIESEL ELECTRIC LOCOMOTIVE.

CLASS 58

58-0a A

No.1 END

No.2 END



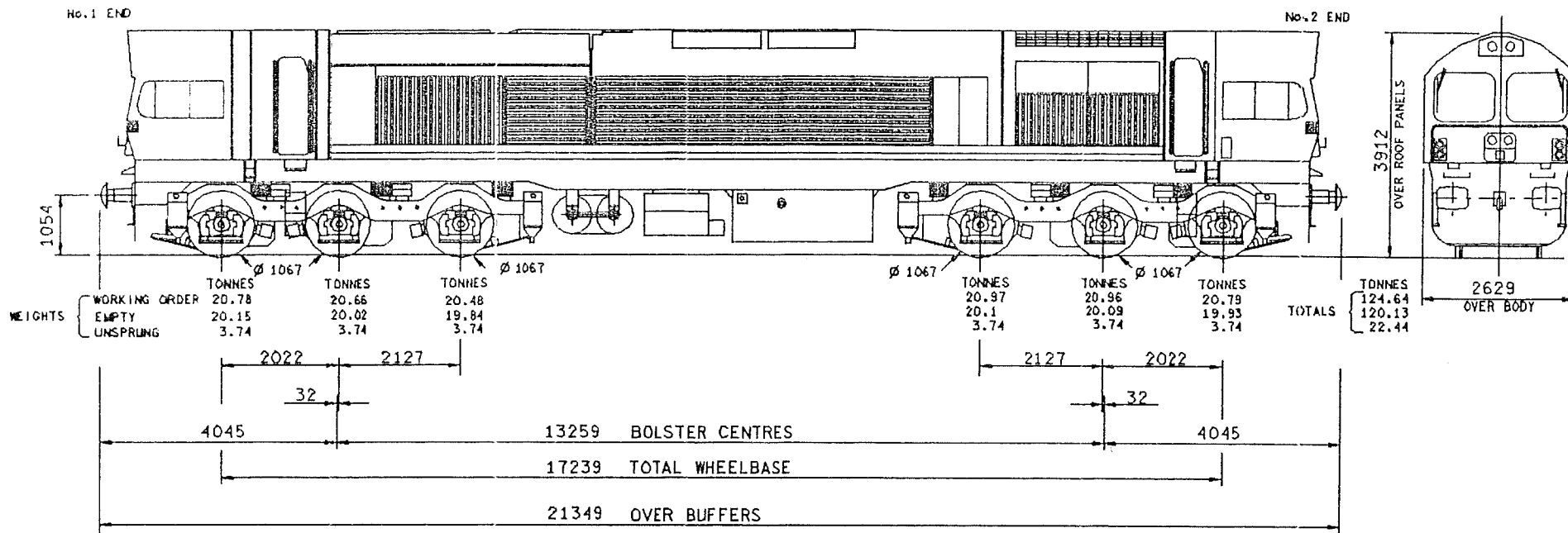
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	RUSTON 12RK3CT 12 CYL.4 STROKE 2460 kW. AT 1000 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR 58.4%
MAIN ALTERNATOR	{ MAKE & TYPE	BRUSH BA1101 B	MULTIPLE WORKING	COUPLING SYMBOL	RED DIAMOND
TRACTION MOTORS	{ MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	BRUSH TM 73-62 SIX NOSE. SINGLE REDUCTION. 275,000N. AT 21.73% ADHESION	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 20mm GAUGE WIDENING	80 m 75 m
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	AT 3050A. TRACTION CURRENT 240,000N AT 28.0 km/h AT 2730A. TRACTION CURRENT 1780 kW AVAILABLE BETWEEN 26 & 130km/h	CURVES	{ VERTICAL CONVEX VERTICAL CONCAVE	200m 200m
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	129 TONNES 60 TONNES - 7 80 M.P.H.	TRAIN HEATING EQUIPMENT		NOT FITTED
			TANK CAPACITIES	ENGINE FUEL	4215 LITRES

JAN. 1992

3300 H.P. G.M. Co-Co DIESEL ELECTRIC LOCOMOTIVE.

CLASS 59

59-0a A



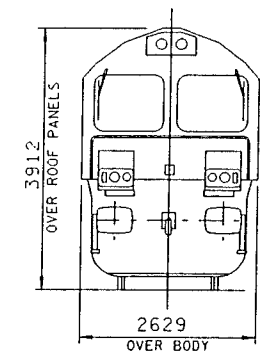
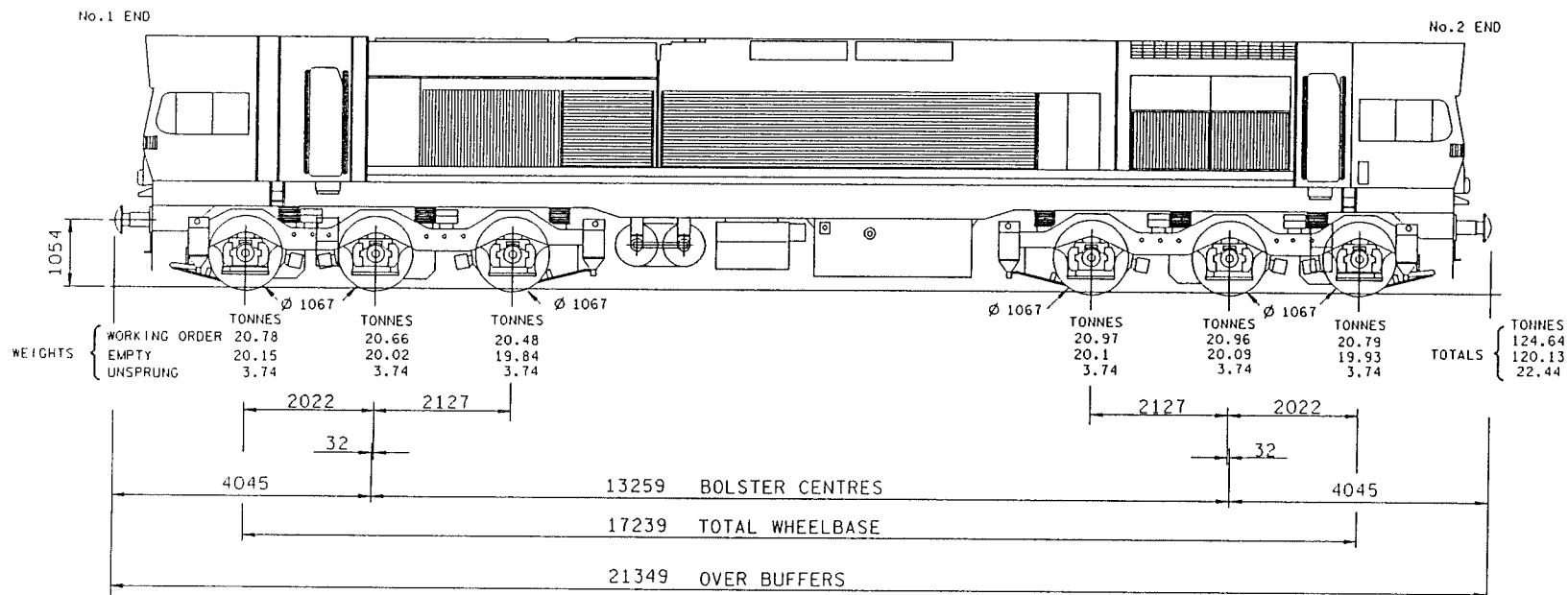
ENGINE	MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	EMD 645E3C 16 CYL. 2 STROKE 3300 H.P. AT 904 R.P.M.	BRAKING	TYPE { FOR LOCO FOR TRAIN	STRAIGHT AIR & AUTO. AIR AUTO. AIR
MAIN GENERATOR	MAKE & TYPE	EMD AR11	BRAKE FORCE	{ % OF LOCO WEIGHT IN WORKING ORDER	29.9% (COMPOSITION BLOCKS)
TRACTION MOTORS	MAKE & TYPE No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	EMD D77B SIX NOSE. SINGLE REDUCTION. 506,000N. AT 42% ADHESION	MULTIPLE WORKING COUPLING SYMBOL		-
PERFORMANCE	CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	291,000N. AT 23km/h 1889 kW AVAILABLE BETWEEN 12 & 95km/h	MINIMUM RADIUS CURVES	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	80m 70m 200m 200m
DATA PANEL	WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	126 TONNES 69 TONNES - 7 60 M.P.H.	TRAIN HEATING EQUIPMENT		NOT FITTED
			TANK CAPACITY	ENGINE FUEL	4543 LITRES

MARCH 1986

3300 H.P. G.M. Co-Co DIESEL ELECTRIC LOCOMOTIVE.

CLASS 59

59-1a A



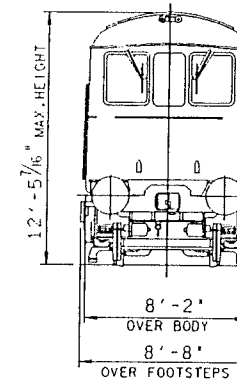
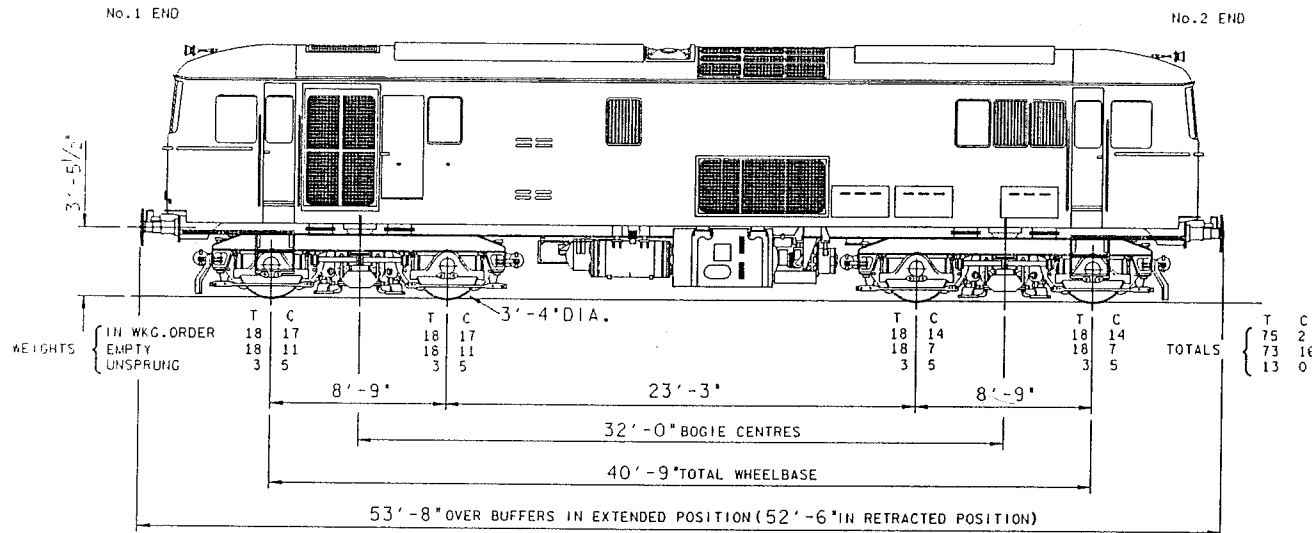
ENGINE	{ MAKE & TYPE No. OF CYLS. & CYCLE MAX. CONT. RATED OUTPUT	EMD 645E3C 16 CYL. 2 STROKE 3300 H.P. AT 904 R.P.M.	BRAKING	{ TYPE { FOR LOCO FOR TRAIN BRAKE FORCE { % OF LOCO WEIGHT IN WORKING ORDER	STRAIGHT AIR & AUTO. AIR AUTO. AIR 29.9% (COMPOSITION BLOCKS)
MAIN GENERATOR	{ MAKE & TYPE	EMD AR11	MULTIPLE WORKING	COUPLING SYMBOL	-
TRACTION MOTORS	{ No TYPE OF SUSPENSION TYPE OF GEAR DRIVE MAX TRACTIVE EFFORT	SIX NOSE. SINGLE REDUCTION. 506,000N. AT 42% ADHESION AT 8400 AMPS. TRACTION CURRENT	MINIMUM RADIUS	{ HORIZONTAL WITHOUT GAUGE WIDENING HORIZONTAL WITH 1/4 INS. GAUGE WIDENING VERTICAL CONVEX VERTICAL CONCAVE	80m 70m 200m 200m
PERFORMANCE	{ CONT. TRACTIVE EFFORT RAIL H.P. AT CONT. RATING FULL ENGINE OUTPUT	291,000N. AT 23km/h AT 5400 AMPS. TRACTION CURRENT 1889 kW	TRAIN HEATING EQUIPMENT		NOT FITTED
DATA PANEL	{ WEIGHT BRAKE FORCE E.T.H. INDEX ROUTE AVAILABILITY MAX. SPEED	126 TONNES 69 TONNES - 7 60 M.P.H.	TANK CAPACITY	ENGINE FUEL	4543 LITRES

JAN. 1992

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

CLASS 73/0

73-0b	X
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ELECTRIC

SUPPLY SYSTEM	TYPE	THIRD RAIL
	NOMINAL VOLTAGE	660-750 VOLTS.D.C.
PERFORMANCE AT 675 VOLTS.	MAX TRACTIVE EFFORT (337.5 VOLTS.PER MOTOR)	42,000LB.AT 25% ADHESION
	CONT.RATING ON WEAKEST FIELD (675 VOLTS.PER MOTOR)	9,600 LB.TRACTIVE EFFORT 55.5 M.P.H. 1,700 AMPS.TOTAL TRACTION CURRENT 1,420 RAIL H.P.
	MAX.RAIL H.P.ON WEAKEST MOTOR FIELD (675 VOLTS.PER MOTOR)	2,450 H.P.AT 37 M.P.H.
	TRAIN HEATING EQUIPT.	675 VOLTS.D.C.SUPPLY

DIESEL

ENGINE	MAKE & TYPE	ENGLISH ELECTRIC 4 SRKT
	No. OF CYLS. & CYCLE	4 CYLS.4 STROKE
	MAX.1 HR.RATED OUTPUT	600 H.P.AT 850 R.P.M.
MAIN GENERATOR	MAKE & TYPE	ENGLISH ELECTRIC E.E.824/3D
	MAX TRACTIVE EFFORT	34,100 LB.AT 20.3% ADHESION AT 1,500 AMPS.MAIN GENERATOR
PERFORMANCE	CONT.TRACTIVE EFFORT	16,100 LB.AT 10 M.P.H. AT 850 AMPS.MAIN GENERATOR
	RAIL H.P.AT CONT.RATING	430 H.P.
	FULL ENGINE OUTPUT	AVAILABLE BETWEEN 3 & 80M.P.H.
TANK CAPACITY	ENGINE FUEL	340 GALLONS
TRAIN HEATING	PREHEATING	ELECTRICAL FROM MAIN GENERATOR

TRACTION MOTORS	MAKE & TYPE	ENGLISH ELECTRIC E.E.542 A.
	No	FOUR.
	TYPE OF SUSPENSION	AXLE
	TYPE OF GEAR DRIVE	STRAIGHT SPUR SINGLE REDUCTION
MULTIPLE WORKING COUPLING SYMBOL		-
MINIMUM RADIUS CURVES	HORIZONTAL WITHOUT GAUGE WIDENING	4 CHAINS
	HORIZONTAL WITH 3/4INS.GAUGE WIDENING	3.3 CHAINS
	VERTICAL CONVEX	11 CHAINS
	VERTICAL CONCAVE	11 CHAINS.

BRAKING	TYPE	FOR LOCO	AIR.
		FOR TRAIN	AIR.VACUUM & E.P.
DATA PANEL	BRAKE FORCE	% OF LOCO WEIGHT	82.7%
		IN WORKING ORDER	
	WEIGHT	76 TONNES	
	BRAKE FORCE	31 TONNES	
	E.T.H. INDEX	66	
ROUTE AVAILABILITY	6		
MAX.SPEED		60 M.P.H.	

MAIN LINE DIESEL LOCOMOTIVE DIAGRAM BOOK
VEHICLE DIAGRAM BOOK NO. 100
REVISION LETTER NO. 22

Please arrange for the following new and amended diagrams to be inserted into the Main Line Diesel Locomotive Diagram Book

31-1jx	37-3ax	37-3bx	37-3cx	37-3dx	37-5cx
37-7ax	37-7bx	37-7cx	37-7dx	47-obx	47-odx
47-ocx	47-ogx	47-ohx	47-olx	47-omx	47-onx
47-3ax	47-3bx	47-4ax	47-4bx	47-4cx	47-4dx
47-4ex	47-4fx	47-4gx	47-4hx	47-4jx	47-4kx
47-4cx	47-4mx	47-4nx	47-40x	47-7ax	48-oax

59-1ax and 73-obx

Diagrams 37-5bx and 37-5dx are cancelled

After incorporating the above, endorse the "Revision Record" at the front of the manual accordingly.

When this Revision letter has been actioned, it is to be stored at the back of the publication (capacity permitting), for easy future reference.

DATE: OCTOBER 1992

Issued by:- TDCC
Dovedale House
RTC Derby

VEHICLE DIAGRAM BOOK
NO 100
MAIN LINE DIESEL LOCOMOTIVES
REVISION LETTER NO 21

<u>Location</u>	<u>Action</u>	<u>Reason for Change</u>
Following diagram 20-fX	Insert diagram 20-9aA	Locos previously to 20-dX and 20-fX transferred to private ownership
Diagrams 26-0aX, 26-1dX, 31-1cX, 31-1fX, 31-1gX, 33-0aX and 33-2aX	Replace with diagrams dated February 1989	Maximum speed reduced to 60 mph
Diagram 47-4mX	Replace with diagram dated April 1989	Fuel capacity decreased from 1250 to 1220 gallons
Following diagram 47-9aA	Insert new diagram 50-0bX	First issue
Diagram 50-1aA	Remove and destroy	Diagram cancelled

After incorporating the above, endorse the "Revision Record" at the front of the manual accordingly.

When this Revision letter has been actioned, it is to be stored at the back of the publication (capacity permitting), for easy future reference.

DATE: September 1989

Issued by:-

REF : 171-125-2

D of M & EE, BRB
Railway Technical Centre
Derby

2309/5596g/1

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Original diagrams courtesy of Eddie Knorn. This PDF copy by J.D. Faulkner, 2012
(visit <http://www.barrowmoremrg.co.uk>)

MAIN LINE DIESEL LOCOMOTIVE DIAGRAM BOOK

VEHICLE DIAGRAM BOOK NO. 100

REVISION LETTER NO. 20

<u>LOCATION</u>	<u>ACTION</u>	<u>REASON FOR CHANGE</u>
Diagrams 20-0bX, and 20-0dX	Replace with Issue dated May 87	Maximum speed reduced to 60 mile/h
Diagram 20-0fX	Replace with Issue dated May 88	Maximum speed reduced to 60 mile/h, and latest weighed weight adjustment.
Diagrams 20-0aV, 20-0cV and 20-0eV	Remove and destroy	These diagrams are cancelled.
Diagrams 27-0cX, to 27-0fX	Replace with Issue dated May 87	Maximum speed reduced to 45 mile/h.
Diagrams 27-0aV, 27-0bV, 27-1aX, 27-1bX and 27-2aX	Remove and destroy.	These diagrams are cancelled.
Diagram 31-1cX,	Replace with Issue dated July 88	Maximum speed reduced to 75 mile/h, and data panel information added.
Diagram 31-1fX	Replace with Issue dated July 88	Maximum speed reduced to 75 mile/h, latest weighed weight adjustment, and data panel information added.
Diagram 31-4cX	Replace with Issue dated July 88	Data panel information added.
Diagrams 31-aV, 31-1aV, 31-1bX, 31-1dV, 31-1eV, 31-1gX, 31-1hV, 31-4aX and 31-4bX	Remove and destroy	These diagrams are cancelled.
Diagrams 37-0cX, 37-0dX, 37-0eX, 37-0gX, 37-0jX and 37-0kX	Replace with Issue dated February 88	Maximum speed reduced to 80 mile/h.
Diagrams 37-aV, 37-bV, 37-fV, 37-hV and 37-1V	Remove and destroy	These diagrams are cancelled.
Following diagram 37-0kV	Insert new diagrams 37-3aX to 37-3dX	Regeared and maximum speed reduced to 80 mile/h.

/Cont'd

<u>LOCATION</u>	<u>ACTION</u>	<u>REASON FOR CHANGE</u>
Following diagram 37-3dX	Insert new diagrams 37-4aX, 37-5aX, 37-5bX, 37-7aX, 37-7bX, 37-9aX and 37-9bX	
Following diagram 40-fX	Insert new diagrams 43-0aA and 43-0bA	
Diagrams 47-0bX, 47-0dX, 47-0eX, 47-0gX, 47-0hX, 47-0lX, 47-0mX, 47-3aX and 47-9aA	Replace with Issue dated November 88	Maximum speed reduced to 75 mile/h.
Following diagram 47-0mX	Insert new diagram 47-0nX	Locomotives previously to diagrams 47-0gX, 47-0hX and 47-0lX with boiler or ballast weight removed and fuel capacity increased to 970 gallons.
Following diagram 47-3aX	Insert new diagram 47-3bX	Locomotives previously to diagram 47-3aX, with ballast weight removed and fuel capacity increased to 970 gallons.
Diagram 47-0aX	Remove and destroy	This diagram has been cancelled.
Following diagram 50-aX	Insert new diagram 50-1aX	For locomotive no. 50149. Locomotive regeared and performance characteristics amended to suit. Maximum speed now 80 mile/h and ETH isolated.

After incorporating the above, endorse the "Revision Record" at the front of the manual accordingly.

When this Revision letter has been actioned, it is to be stored at the back of the publication (capacity permitting), for easy future reference.

DATE : NOVEMBER 1988

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Railway Technical Centre
Derby