
British Railways Board

Mechanical & Electrical Engineering Department

VEHICLE DIAGRAM BOOK NO 230

FOR

Diesel Electric Multiple Unit Trains

(Including H.S.T.)

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Contained in this book:

Design Code	Class	Vehicle Type	ex Diag	Issue	Date
DA201	210	DMS		1	Sep 80
DB201	201	DMBS	650	3	Dec 81
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DB202	203	DMBS	651	3	Dec 81
	206				
	204				
DB203	205	DMBS	652	2	Dec 81
	205/1				
DB204	205	DMBS	656	3	Dec 85
DB205	207	DMBS	655	1	Sep 80
DB206	210	DMBS		2	Aug 82
DB207	205/1	DMBS		1	Sep 80
DE201	207	DTS	681	3	Nov 84
DE202	204	DTS		4	Nov 84
DE203	210	DTS		3	Aug 82
DE204	205/1	DTS		1	Sep 80
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DE301	205	DTC	679	5	Dec 85
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DH304	202	TC	661	2	Nov 84
	203				
DH305	206	TC	660	1	Jun 81
GH102		TF	666	7	Mar 87
GH103		TF		2	Mar 87
GH202		TS	675	3	Mar 87
GH203		TS		5	Mar 87
GJ201		TGS	676	3	Mar 87

Design Code	Class	Vehicle Type	ex Diag	Issue	Date
GK101		TRFB	697	2	Mar 87
GK102		TRFM		1	Mar 87
GK202		TRSB	695	4	Mar 87
GK401		TRUB	697	5	Mar 87
GL101		TRFK	696	2	Mar 87
GL402		TRUK	696	3	Mar 87
GM401		TLUK		2	Mar 87
GN401		TRB		2	Mar 87

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 Diagram books covering Locomotives and Rail Crane vehicles 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 Main Line Locos	100 (Previously No MT/25)	Red	Privately Owned Freight Vehicles	300	White
Electric Main Line Locos	110 (Previously No MT/26)	Green	Privately Owned International Ferry Vehicle	310	White
Diesel Shunting Locos	120 (Previously No MT/27)	Yellow	BR Revenue Freight Vehicle	320	Buff
<u>Coaching & Multiple Unit Stock:- Diagram Book Series 200</u>			BR International Ferry Vehicles	330	Buff
Loco Hauled Coaches	200	Orange	Foreign Administration Freight Vehicles	340	White
Electric Multiple Units	210	Blue	BR Service Department Vehicles	350	Buff
Diesel Multiple Units (Railcar)	220	Pink			
Diesel Electric Multiple Units (HST)	230	Pink			
			<u>ON Track Plant:- Diagram Book Series 400</u>		
			Rail Cranes & Tracklaying Vehicles	400 (Previously No MT/212)	Red

Issued by:-

Director of Mechanical & Electrical Engineering
Railway Technical Centre
DERBY

JULY 1982

Appendix To Vehicle Diagram Book No 230

Diesel Electric Multiple Unit Trains

(Including H.S.T.)

INDEX

OF

DEMU. VEHICLE NUMBERS TO DESIGN CODE

1. The first part of the document is a list of names and addresses.

2. The second part of the document is a list of names and addresses.

3. The third part of the document is a list of names and addresses.

4. The fourth part of the document is a list of names and addresses.

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W	41159	GH102 OB	W	42045	GH202 OB	W	42095	GH202 OB	E	42145	GH202 OB	E	42195	GH202 OB
W	41160	GH102 OB	W	42046	GH202 OB	W	42096	GH202 OB	E	42146	GH202 OB	E	42196	GH202 OB
W	41161	GH102 OB	W	42047	GH202 OB	W	42097	GH202 OB	E	42147	GH202 OB	E	42197	GH202 OB
W	41162	GH102 OB	W	42048	GH202 OB	W	42098	GH202 OB	E	42148	GH202 OB	E	42198	GH202 OB
W	41163	GH102 OB	W	42049	GH202 OB	W	42099	GH202 OB	E	42149	GH202 OB	E	42199	GH202 OB
W	41164	GH102 OB	W	42050	GH202 OB	W	42100	GH202 OB	E	42150	GH202 OB	E	42200	GH202 OB
W	41165	GH102 OB	W	42051	GH202 OB	W	42101	GH202 OB	E	42151	GH202 OB	E	42201	GH202 OB
W	41166	GH102 OB	W	42052	GH202 OB	W	42102	GH202 OB	E	42152	GH202 OB	E	42202	GH202 OB
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W	42005	GH202 OA	W	42055	GH202 OB	W	42105	GH202 OB	E	42155	GH202 OB	E	42205	GH202 OB
W	42006	GH202 OA	W	42056	GH202 OB	W	42106	GH202 OB	E	42156	GH202 OB	E	42206	GH202 OB
W	42007	GH202 OA	W	42057	GH202 OB	W	42107	GH202 OB	E	42157	GH202 OB	E	42207	GH202 OB
W	42008	GH202 OA	W	42058	GH202 OB	W	42108	GH202 OB	E	42158	GH202 OB	E	42208	GH202 OB
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W	42010	GH202 OA	W	42060	GH202 OB	W	42110	GH202 OB	E	42160	GH202 OB	E	42210	GH202 OB
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W	42015	GH202 OA	W	42065	GH202 OB	W	42115	GH202 OB	E	42165	GH202 OB	E	42215	GH202 OB
W	42016	GH202 OA	W	42066	GH202 OB	W	42116	GH202 OB	E	42166	GH202 OB	E	42216	GH202 OB
W	42017	GH202 OA	W	42067	GH202 OB	W	42117	GH202 OB	E	42167	GH202 OB	E	42217	GH202 OB
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W	42027	GH202 OB	W	42077	GH202 OB	W	42127	GH202 OB	SC	42177	GH202 OB	E	42227	GH202 OB

PREF/ OWNER	VEH NO/SFX	DESIGN CODE	PREF/ OWNER	VEH NO/SFX	DESIGN CODE	PREF/ OWNER	VEH NO/SFX	DESIGN CODE	PREF/ OWNER	VEH NO/SFX	DESIGN CODE	PREF/ OWNER	VEH NO/SFX	DESIGN CODE
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W	42277	GH202 OC	W	43023	GB502 OA	W	43073	GB502 OA	E	43123	GB502 OA	W	43173	GB503 OA

PREF/ OWNER CODE	VEH NO/SFX	DESIGN CODE	PREF/ OWNER CODE	VEH NO/SFX	DESIGN CODE	PREF/ OWNER CODE	VEH NO/SFX	DESIGN CODE
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W	44032	GJ201 0A	W	44082	GJ201 0A			

VEHICLE DIAGRAM BOOK NO 230

FOR

Diesel Electric Multiple Unit Trains

(Including H.S.T.)

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SUMMARY OF CONTENTS

NOTE:- The contents of this book are arranged in alphabetical order, according to vehicle DESIGN CODE

DA Driving Motor Second
DB Driving Motor Brake Second
DE Driving Trailer Second
DE Driving Trailer Composite
DH Trailer Second
DH Trailer Composite

GB Driving Motor Brake - HST
GH Trailer First - HST
GH Trailer Second - HST
GJ Trailer Guards Second - HST
GK Trailer Restaurant Second with Buffet - HST
GK Trailer Restaurant Unclassed with Buffet - HST
GL Trailer Restaurant Unclassed with Kitchen - HST

Barrowmore Management Group

Barrowmore Management Group is a leading provider of management services to the construction industry.

Our services include project management, cost management, and contract administration. We have a proven track record of successful projects across the UK.

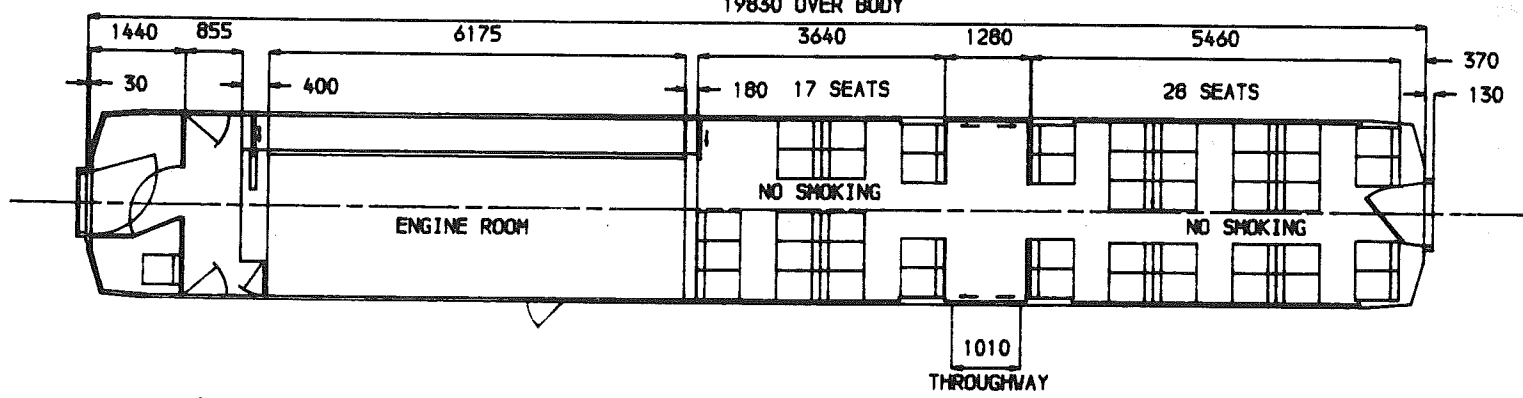
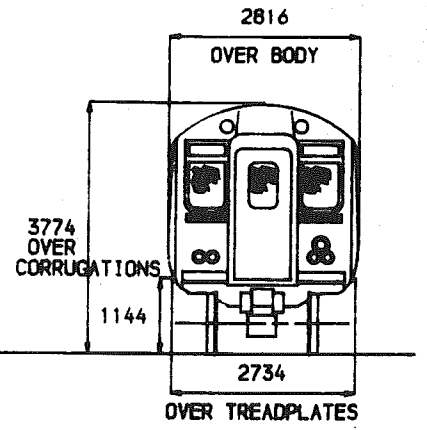
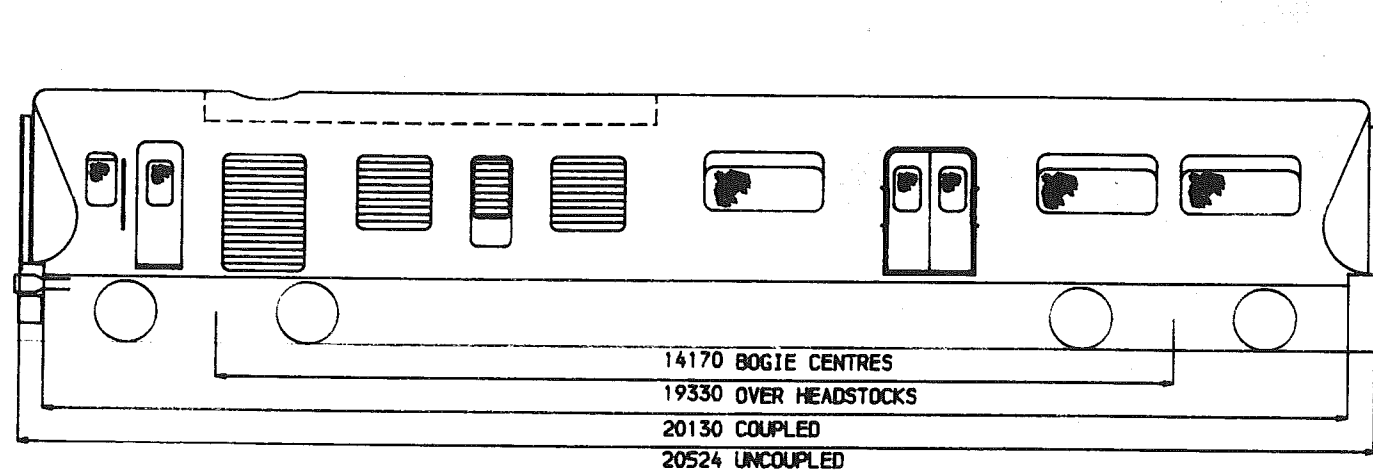
We are currently seeking experienced project managers to join our team. If you are interested, please contact us at info@barrowmoremg.co.uk.

DRIVING MOTOR SECOND

CLASS 210

DMS

DA 201



- SEATS 45
- TOILETS -
- COMPARTMENTS -
- GUARDS COMPARTMENTS CAB WHEN TRAILING
- VENTILATION PRESSURE
- CATERING EQUIPMENT -

ISSUE 1 DATE SEP' 80

DA 201

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS

A. V. S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC (VESTCODE)
BP 20a & BP 20b (ONE OF EACH)
STEEL
AUTOMATIC TIGHTLOCK OUTER END-BAR INNER END
ELECTRIC (BR) WITH PRESSURE VENTILATION & HEATING
90
3.5
FLUORESCENT & TUNGSTEN
62
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
OUTER END-FLEXIBLE DIAPHRAGM/RIGID (GRP) INNER END
FITTED
DRIVER/GUARD & PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER	BR DERBY-PROTOTYPE
ENGINE	MTU PT.NO.12V396TC12-12 CYL-V CONFIGURATION-1100 HP
TRACTION MOTORS	4 X 250 HP (187 kW) GEC
ALTERNATOR	GEC TYPE G563AZ-OUTPUT 670 AMPS 1225 VOLTS

BASIC TYPE

DA 201 0A

VARIANTS

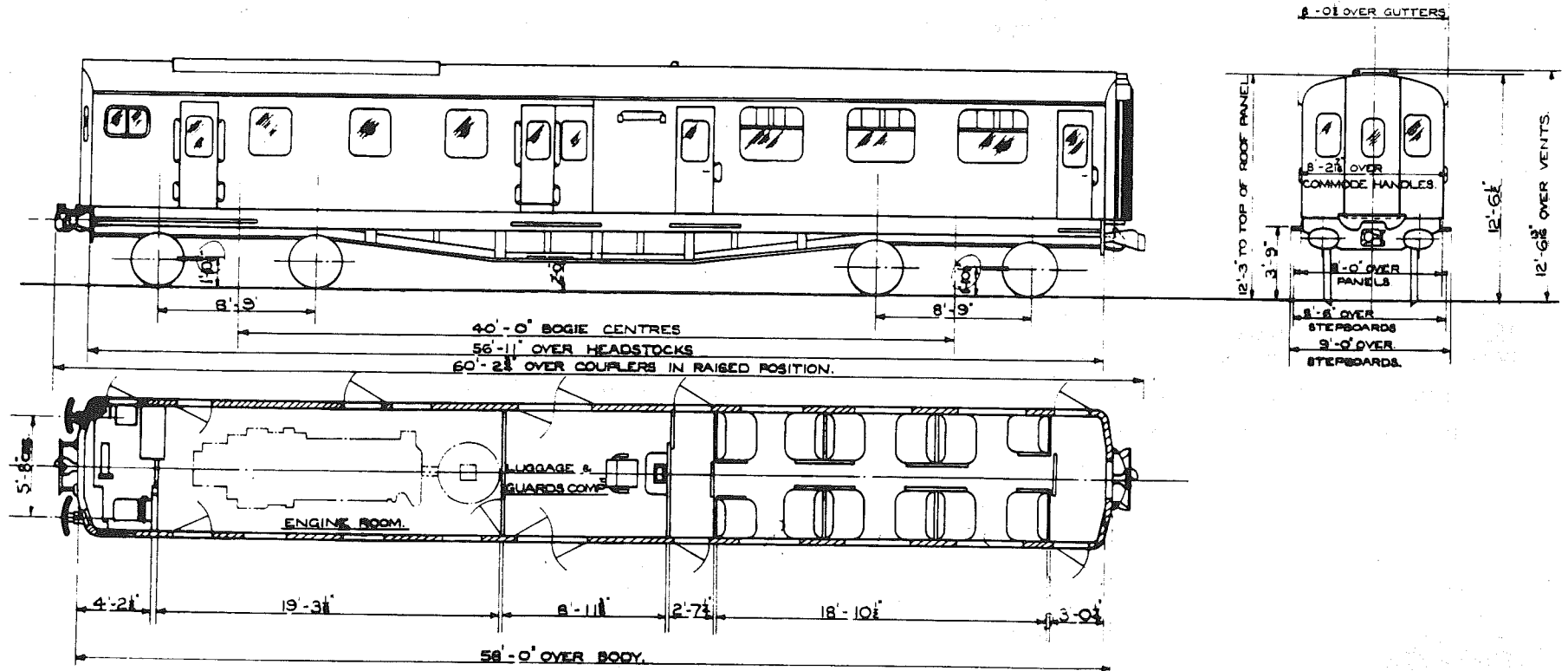
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DRIVING MOTOR BRAKE SECOND

CLASS 201

DMBS

DB 201



SEATS	22
TOILETS	-
COMPARTMENTS	-
GUARDS COMPARTMENTS	1
VENTILATION	-
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE, -
BR 650

ISSUE 3 DATE DEC '81

DB 201

BASIC TYPE

ALTERNATIVES

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

ELECTRO-PNEUMATIC
S.R.MK 4 POWERED & UNPOWERED (ONE OF EACH)
STEEL
AUTOMATIC DROPHEAD (BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC (BR)
75
3.5
TUNGSTEN
55
EXPRESS ELECTRIC-INNER END ONLY
NOT FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY
500 HP

DRIVER/GUARD
600 HP

TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A. V. S.
TRAIN COMMUNICATION
BUFFERS
ENGINE

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER	BR EASTLEIGH
ENGINE	ENGLISH ELECTRIC 4 CYL. TYPE 4SRKT MK 11 OF 500 OR 600 HP AT 850 RPM-SEE VARIANTS
TRACTION MOTORS	2-NOSE SUSPENDED-AXLE HUNG
GENERATOR	ENGLISH ELECTRIC TYPE 824

BASIC TYPE

DB 201 0A

VARIANTS

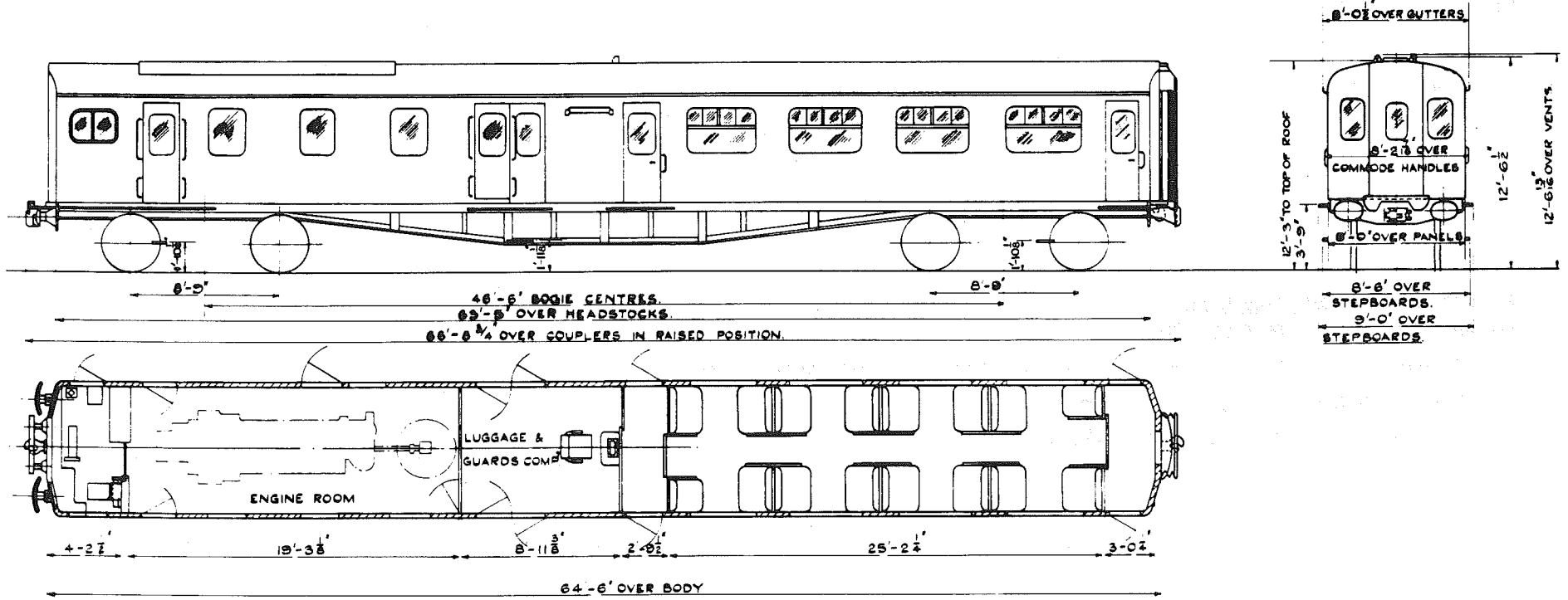
0B 600 HP ENGINE.
0C DRIVER/GUARD COMMUNICATION.

DRIVING MOTOR BRAKE SECOND

CLASS 202
203
206

DMBS

DB 202



- SEATS 30
- TOILETS -
- COMPARTMENTS -
- GUARDS COMPARTMENTS 1
- VENTILATION -
- CATERING EQUIPMENT -

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 651

ISSUE 3 DATE DEC' 81

DB 202

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.V.S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC
S.R. MK 4 POWERED & UNPOWERED (ONE OF EACH)
STEEL
AUTOMATIC DROPHEAD (BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC (BR)
75
3.5
TUNGSTEN
56
EXPRESS ELECTRIC-INNER END ONLY
NOT FITTED
DRIVER/GUARD
RETRACTABLE SPINDLE (559 X 356 OVAL) OUTER END ONLY

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER	BR EASTLEIGH
ENGINE	ENGLISH ELECTRIC 4 CYL. TYPE 4SRKT MK 11 OF 500 HP AT 850 RPM
TRACTION MOTORS	2-NOSE SUSPENDED-AXLE HUNG
GENERATOR	ENGLISH ELECTRIC TYPE 824

BASIC TYPE

DB 202 0A

VARIANTS

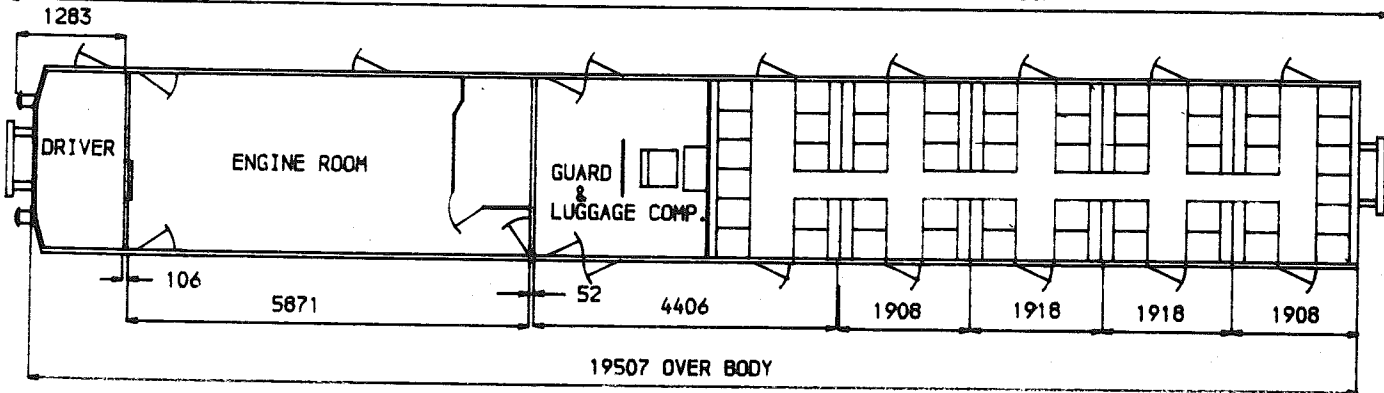
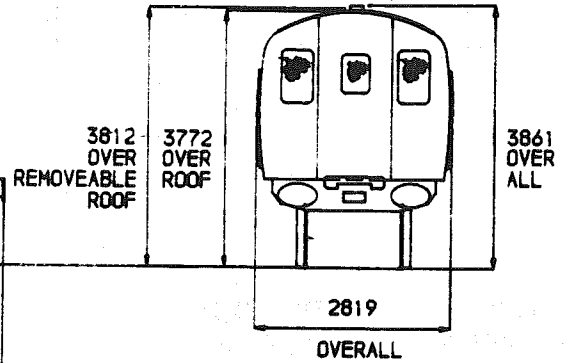
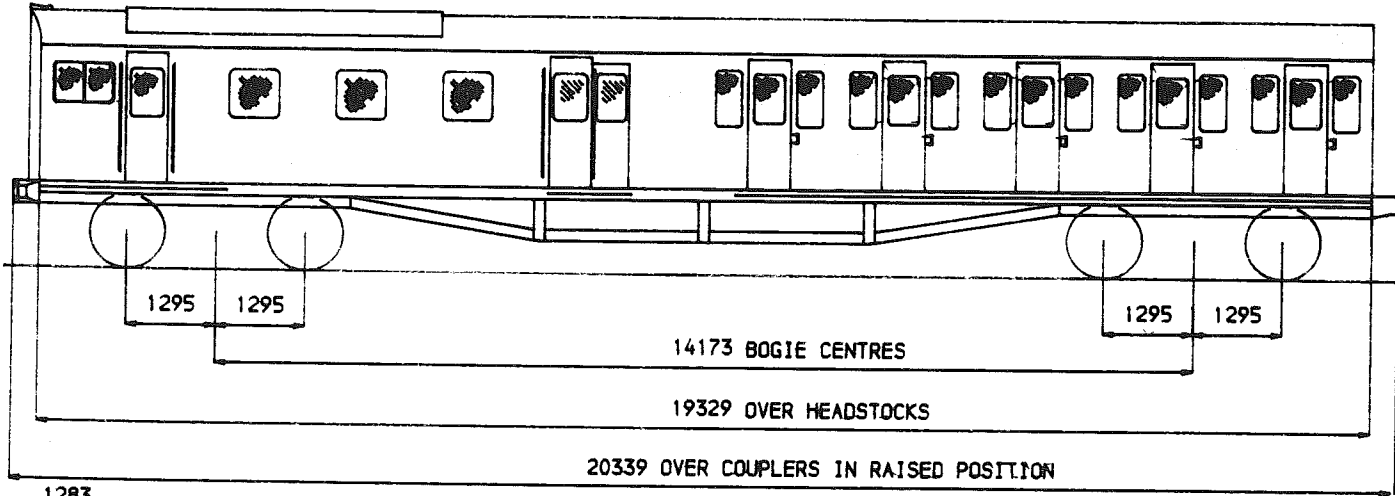
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DRIVING MOTOR BRAKE SECOND

CLASS 204
205
205/1

DMBS

DB 203



- SEATS 52
- TOILETS -
- COMPARTMENTS -
- GUARDS COMPARTMENTS 1
- VENTILATION -
- CATERING EQUIPMENT -

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 652

ISSUE 2 DATE DEC '81

DB 203

BASIC TYPE

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.V.S.
TRAIN COMMUNICATION
BUFFERS

ELECTRO-PNEUMATIC
S.R. MK 4 POWERED & UNPOWERED (ONE OF EACH)
STEEL
AUTOMATIC DROPHEAD (BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC (BR)
75
3.5
ELECTRIC
57
NOT FITTED
FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY

ALTERNATIVES

FLUORESCENT & TUNGSTEN

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

ENGINE ENGLISH ELECTRIC 4 CYL. TYPE 4SRKT MK 11 OF 600 HP AT 850 RPM

TRACTION MOTORS 2-NOSE SUSPENDED-AXLE HUNG

GENERATOR ENGLISH ELECTRIC TYPE 824

BASIC TYPE

DB 203 0A

VARIANTS

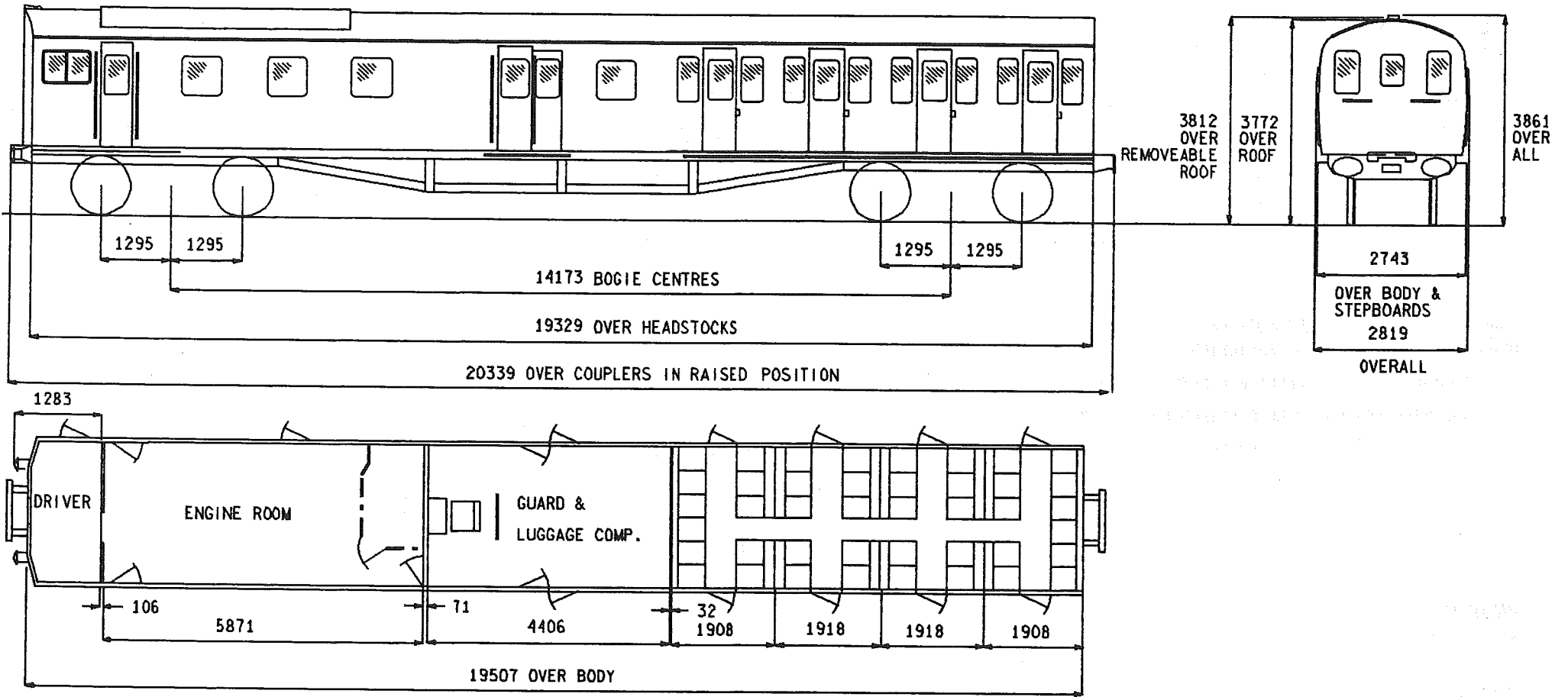
1C CLASS 205/1-PROTOTYPE REFURBISHED VEHICLE-FLUORESCENT & TUNGSTEN LIGHTING.

DRIVING MOTOR BRAKE SECOND

CLASS 205

DMBS

DB 204



- SEATS 42
- TOILETS -
- COMPARTMENTS -
- GUARDS COMPARTMENTS 1
- VENTILATION -
- CATERING EQUIPMENT -

ORIGINAL DIAGRAMS FOR REFERENCE:
BR 656

ISSUE 3 DATE DEC 85

DB 204

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.W.S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC
S.R.MK 4 POWERED & UNPOWERED(ONE OF EACH)
STEEL
AUTOMATIC DROPHEAD(BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC(BR)
75
3.5
TUNGSTEN
32.5
NOT FITTED
FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH
ENGINE ENGLISH ELECTRIC 4 CYL.TYPE 4SRKT MK 11 OF 600 HP AT 850 RPM
TRACTION MOTORS 2-NOSE SUSPENDED-AXLE HUNG
GENERATOR ENGLISH ELECTRIC TYPE 824

BASIC TYPE

DB 204 QA

VARIANTS

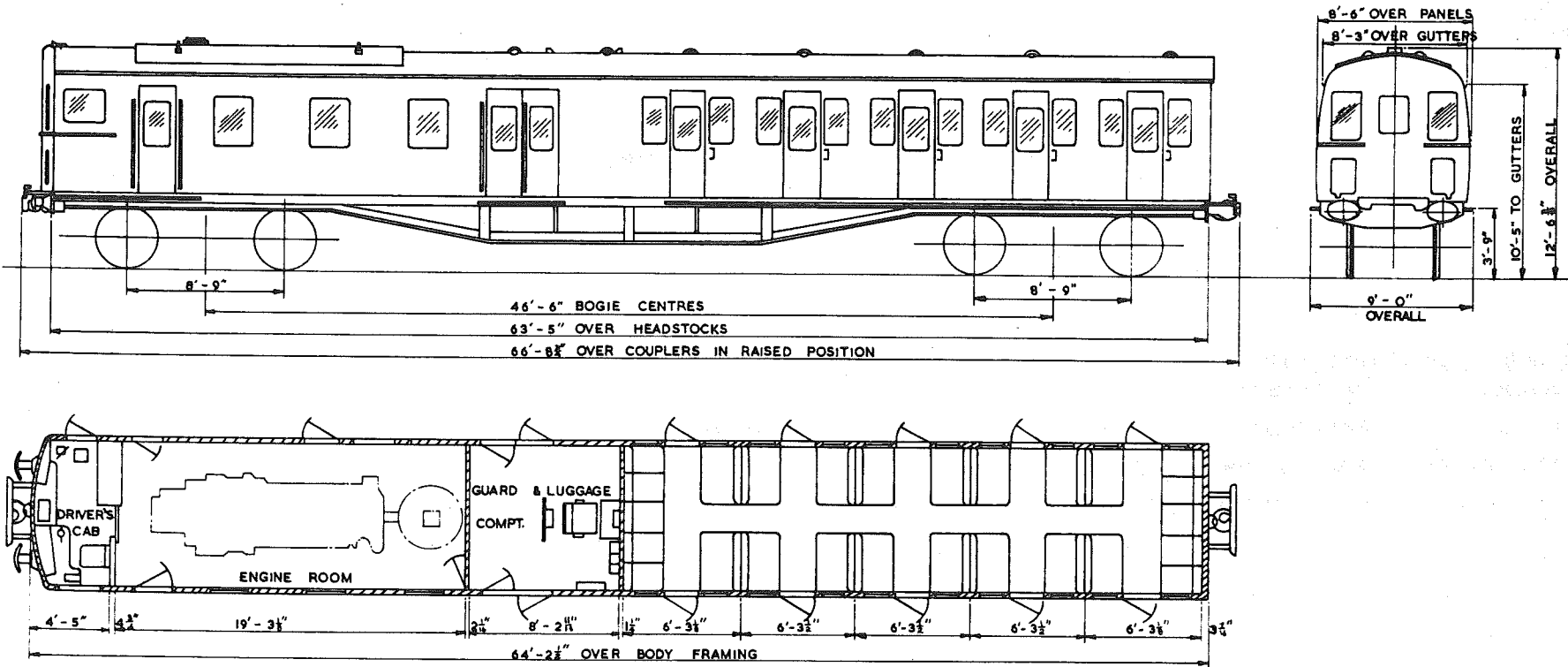
NONE

DRIVING MOTOR BRAKE SECOND

CLASS 207

DMBS

DB 205



SEATS	42
TOILETS	-
COMPARTMENTS	-
GUARDS COMPARTMENTS	1
VENTILATION	-
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 655

ISSUE 1 DATE SEP' 80

DB 205

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.V.S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC
S.R. MK 3A POWERED & UNPOWERED (ONE OF EACH)
STEEL
AUTOMATIC DROPHEAD (BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC (BR)
75
3.5
ELECTRIC
57
NOT FITTED
FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER	BR EASTLEIGH
ENGINE	ENGLISH ELECTRIC 4 CYL. TYPE 4SRKT MK 11 OF 600 HP AT 850 RPM
TRACTION MOTORS	2-NOSE SUSPENDED-AXLE HUNG
GENERATOR	ENGLISH ELECTRIC TYPE 824

BASIC TYPE

DB 205 0A

VARIANTS

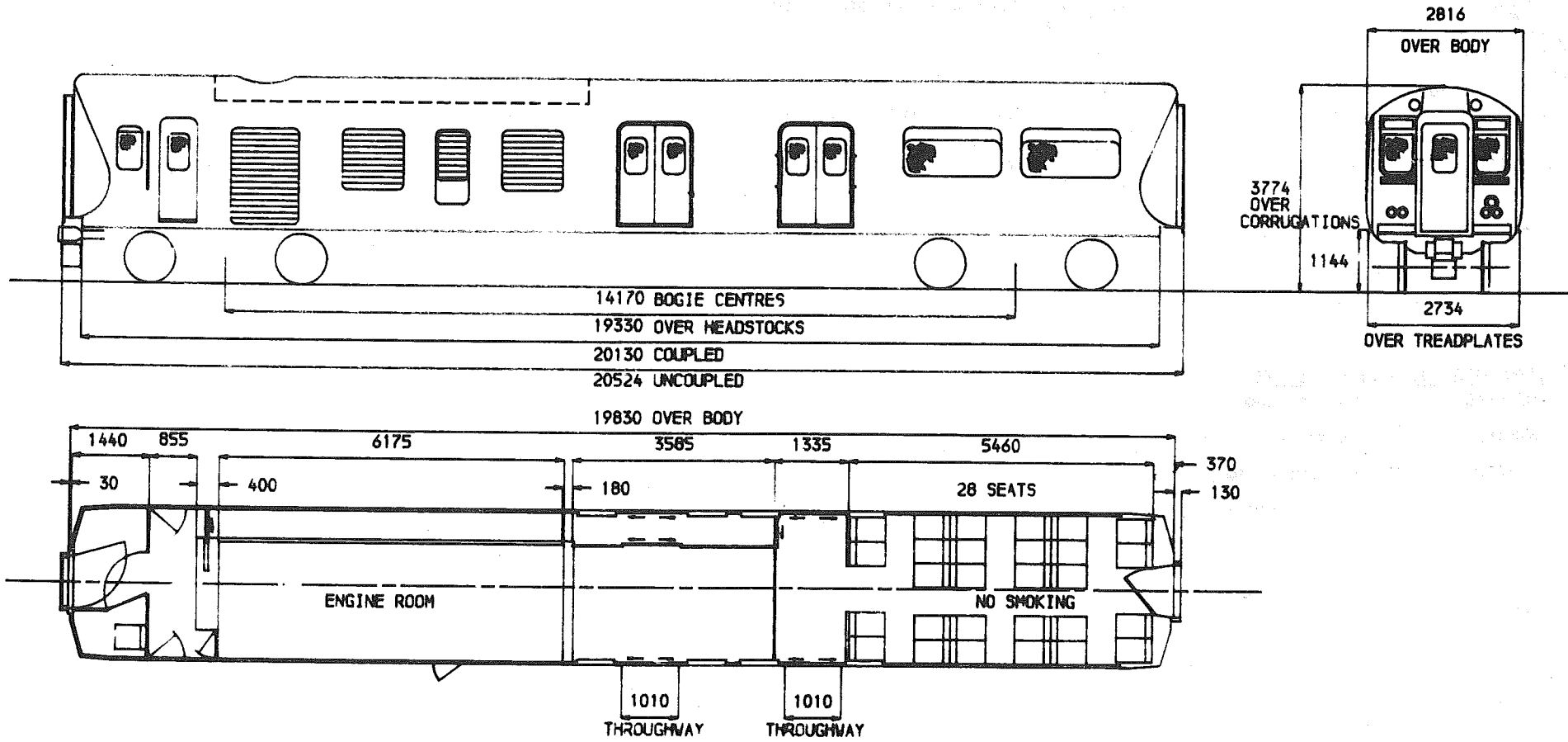
NONE

DRIVING MOTOR BRAKE SECOND

CLASS 210

DMBS

DB 206



SEATS	28
TOILETS	-
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	CAB WHEN TRAILING
CATERING EQUIPMENT	PRESSURE
	-

ISSUE 2 DATE AUG '82

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS

A.V.S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC (WESTCODE)
BP20a & BP20b (ONE OF EACH)
STEEL
AUTOMATIC TIGHTLOCK OUTER END-BAR INNER END
ELECTRIC (BR) WITH PRESSURE VENTILATION & HEATING
90
3.5
FLUORFSCENT & TUNGSTEN
62
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
OUTER END-FLEXIBLE DIAPHRAGM/RIGID (GRP) INNER END
FITTED
DRIVER/GUARD & PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR DERBY-PROTOTYPE
ENGINE PAXMAN PT. NO. 6RP200-6 CYL. IN LINE-1100 HP
TRACTION MOTORS 4 X 250 HP BRUSH
ALTERNATOR BRUSH BA1002A-OUTPUT 670 AMPS 1240 VOLTS

BASIC TYPE

DB 206 0A

VARIANTS

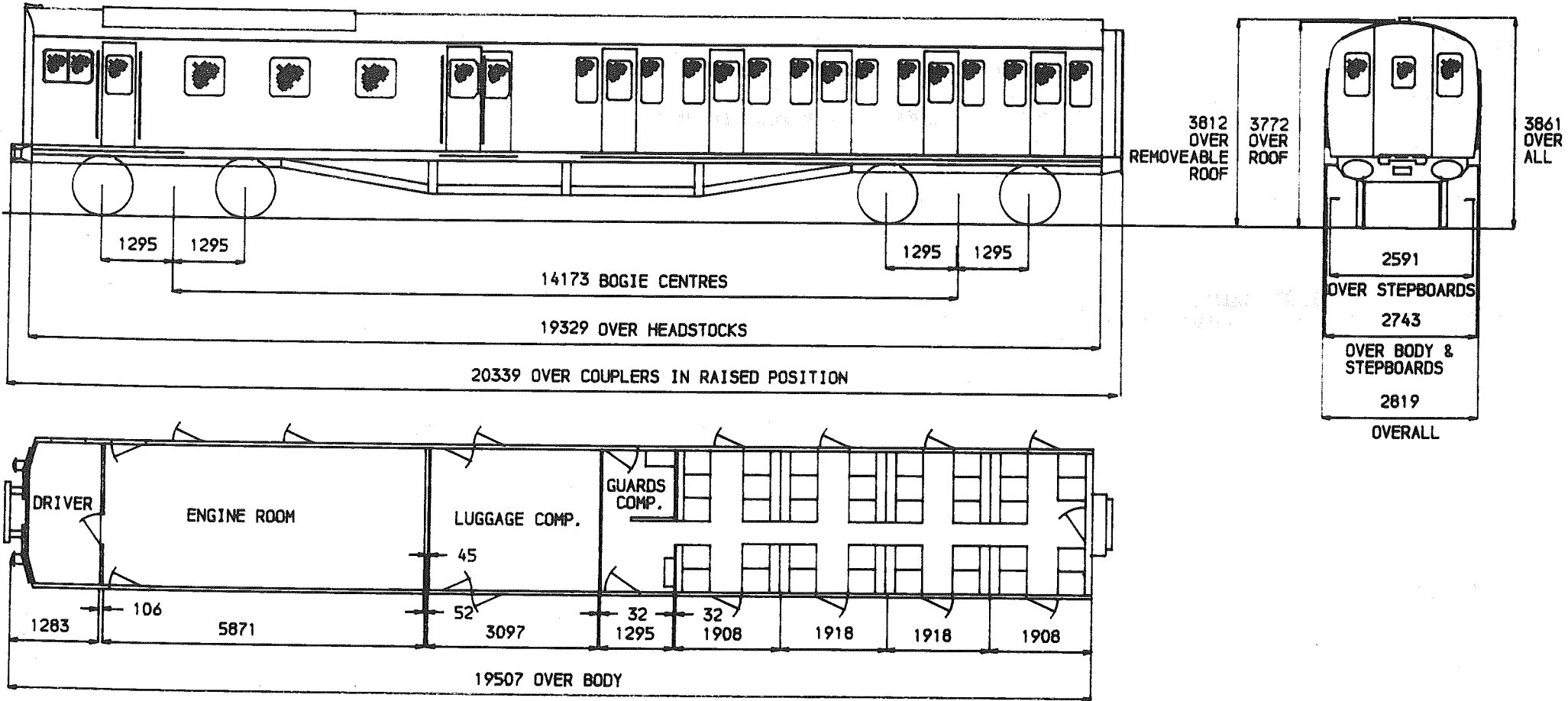
NONE

DRIVING MOTOR BRAKE SECOND

CLASS 205/1

DMBS

DB 207



SEATS	. 39
TOILETS	-
COMPARTMENTS	-
GUARDS COMPARTMENTS	1
VENTILATION	-
CATERING EQUIPMENT	-

ISSUE 1 DATE SEP' 80

DB 207

BASIC TYPE

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.V.S.
TRAIN COMMUNICATION
BUFFERS

ELECTRO-PNEUMATIC
S.R.MK 4 POWERED & UNPOWERED (ONE OF EACH)
STEEL
AUTOMATIC DROPHEAD (BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC (BR)
75
3.5
FLUORESCENT & TUNGSTEN
57
PULLMAN WITH RIGID (GRP) INNER PANELS-INNER END ONLY
FITTED
NOT FITTED
RETRACTABLE SPINDLE (559X356 OVAL) OUTER END ONLY

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLIEGH - REFURBISHED 1980 (PROTOTYPE)

BASIC TYPE

DB 207 0A

VARIANTS

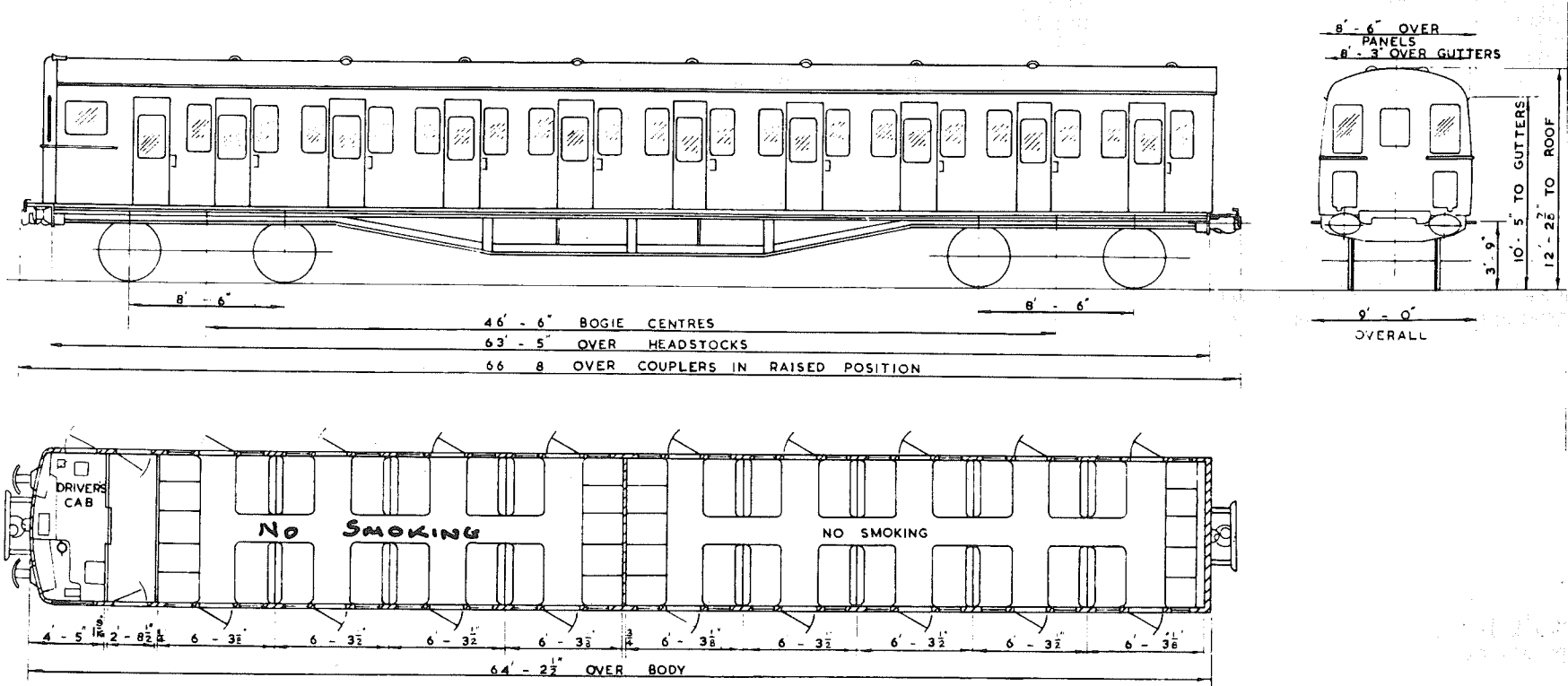
NONE

DRIVING TRAILER SECOND

CLASS 207

DTS

DE 201



SEATS	76
TOILETS	-
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	-
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 681

ISSUE 3 DATE NOV '84

DE 201

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.W.S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC
S.R. MK 3A UNPOWERED
STEEL
AUTOMATIC DROPHEAD (BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC (BR)
75
3.5
TUNGSTEN
31.5
NOT FITTED
FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DE 201 0A

VARIANTS

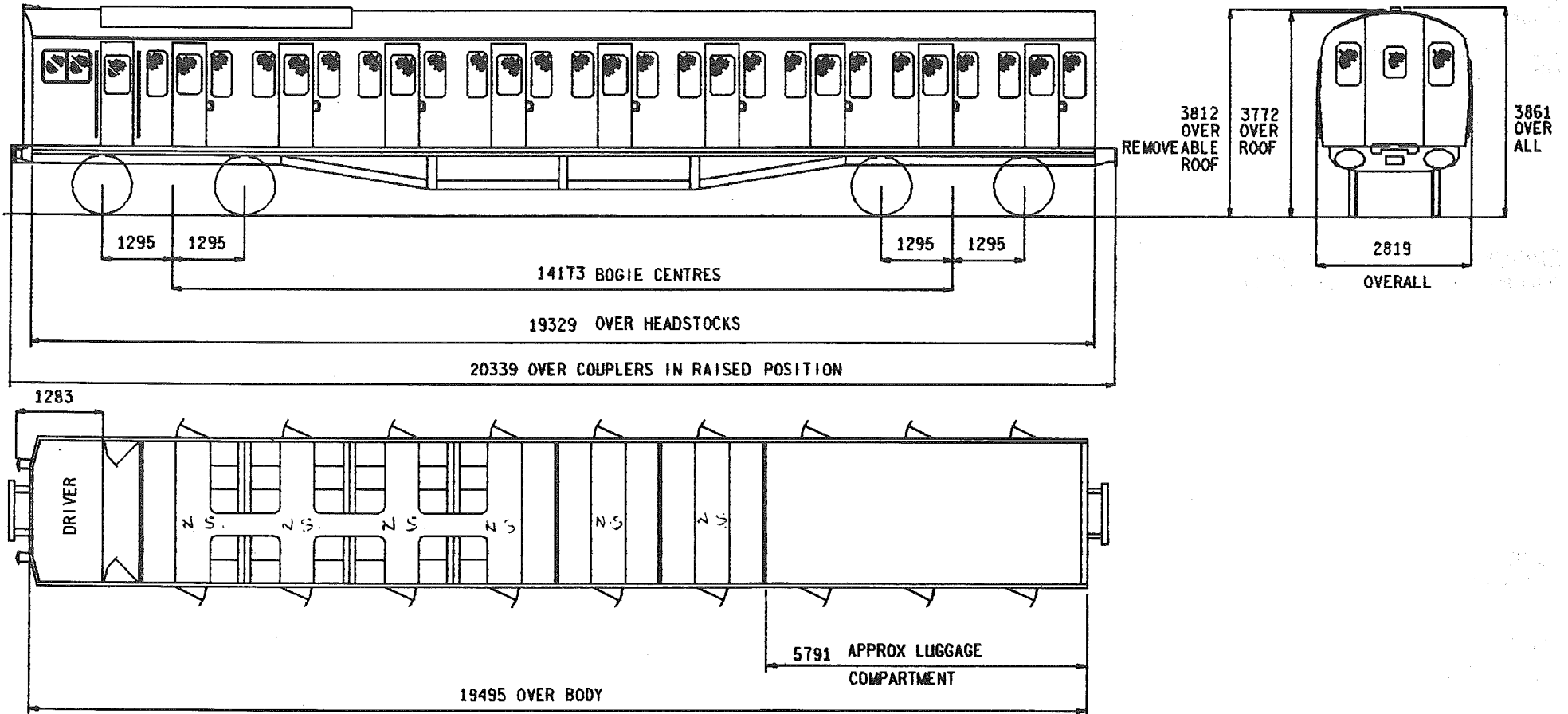
NONE

DRIVING TRAILER SECOND (LUGGAGE)

CLASS 204

DTS

DE 202



- | | |
|----------------------|---------------|
| SEATS | 66 |
| TOILETS | - |
| COMPARTMENTS | 2 PLUS SALOON |
| LUGGAGE COMPARTMENTS | 1 |
| VENTILATION | - |
| CATERING EQUIPMENT | - |

ISSUE 4 DATE NOV 84

DE 202

BASIC TYPE

ALTERNATIVES

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

ELECTRO-PNEUMATIC
S.R.MK 4 UNPOWERED
STEEL
AUTOMATIC DROPHEAD(BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC(BR)
75
3.5
TUNGSTEN
30
NOT FITTED
NOT FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY

TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.W.S.
TRAIN COMMUNICATION
BUFFERS

TRACTION DATA FOR MULTIPLE UNITS

DEM-J-BUILDER BR EASTLEIGH

BASIC TYPE

DE 202 0A

VARIANTS

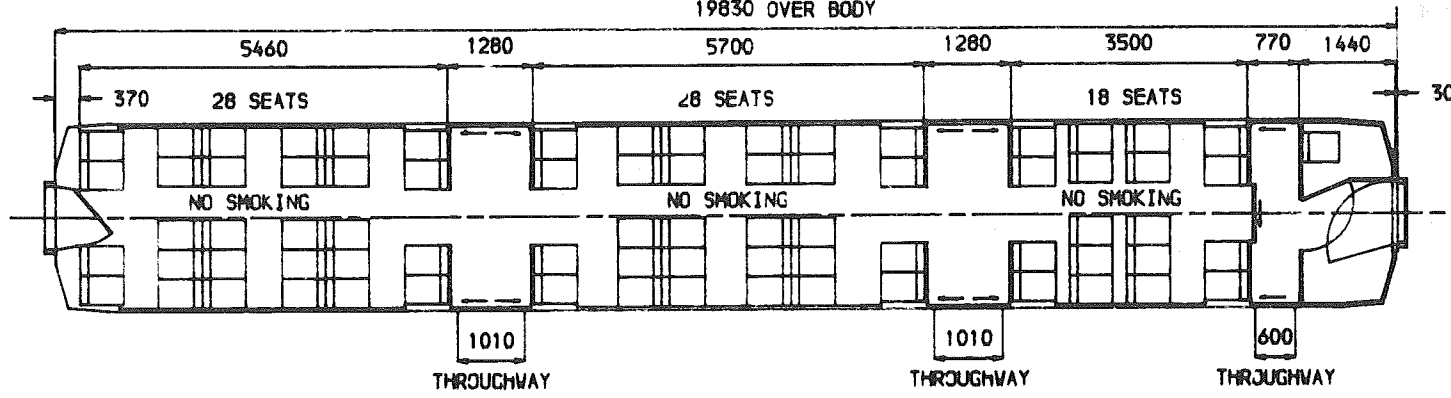
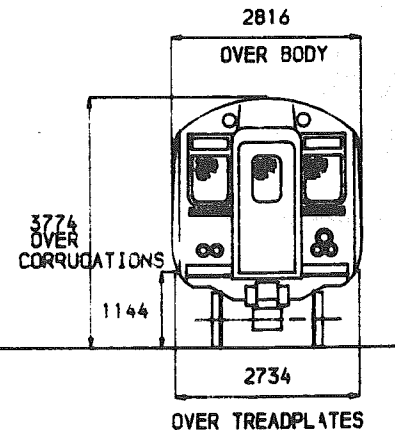
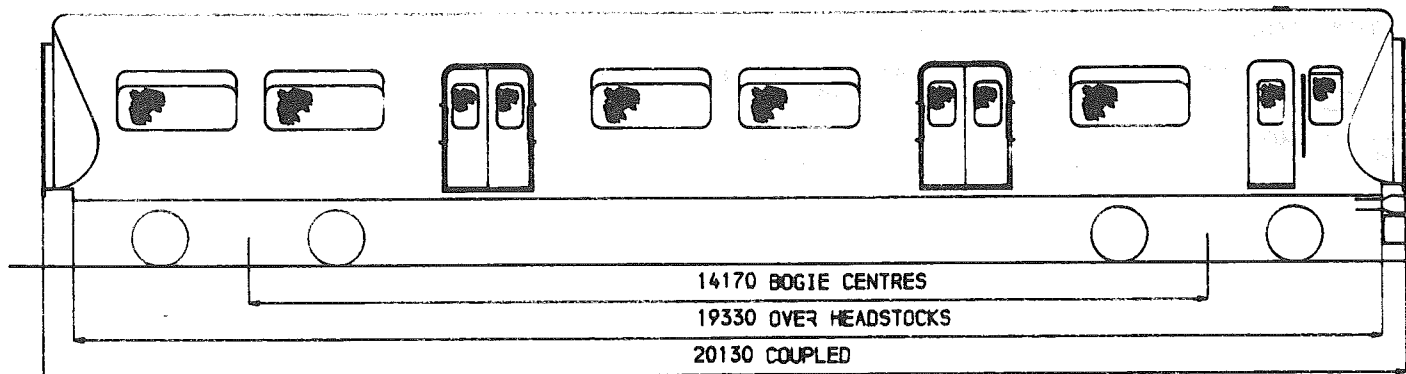
NONE

DRIVING TRAILER SECOND

CLASS 210

DTS

DE 203



- SEATS 74
- TOILETS -
- COMPARTMENTS -
- GUARDS COMPARTMENTS -
- VENTILATION CAB WHEN TRAILING
- CATERING EQUIPMENT PRESSURE

ISSUE 3 DATE AUG '82

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS

A.V.S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC (WESTCODE)
BT13a & BT13b (ONE OF EACH)
STEEL
AUTOMATIC TIGHTLOCK OUTER END-BAR INNER END
ELECTRIC (BR) WITH PRESSURE VENTILATION & HEATING
90
3.5
FLUORESCENT
29
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
OUTER END-FLEXIBLE DIAPHRAGM/RIGID (GRP) INNER END
FITTED
PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR DERBY-PROTOTYPE

BASIC TYPE

DE 203 0A

VARIANTS

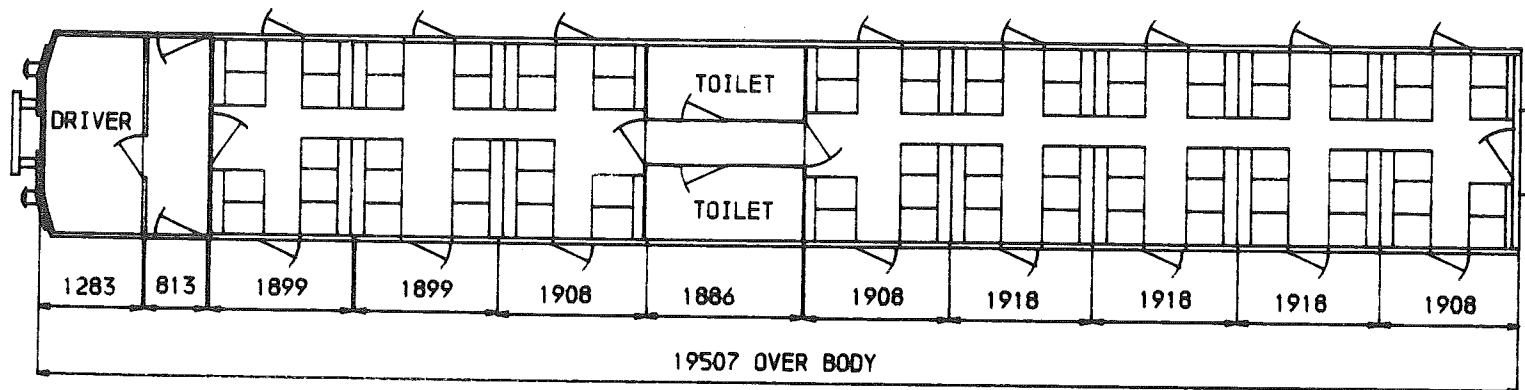
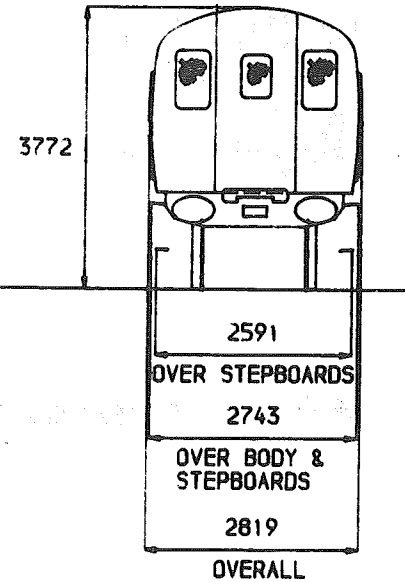
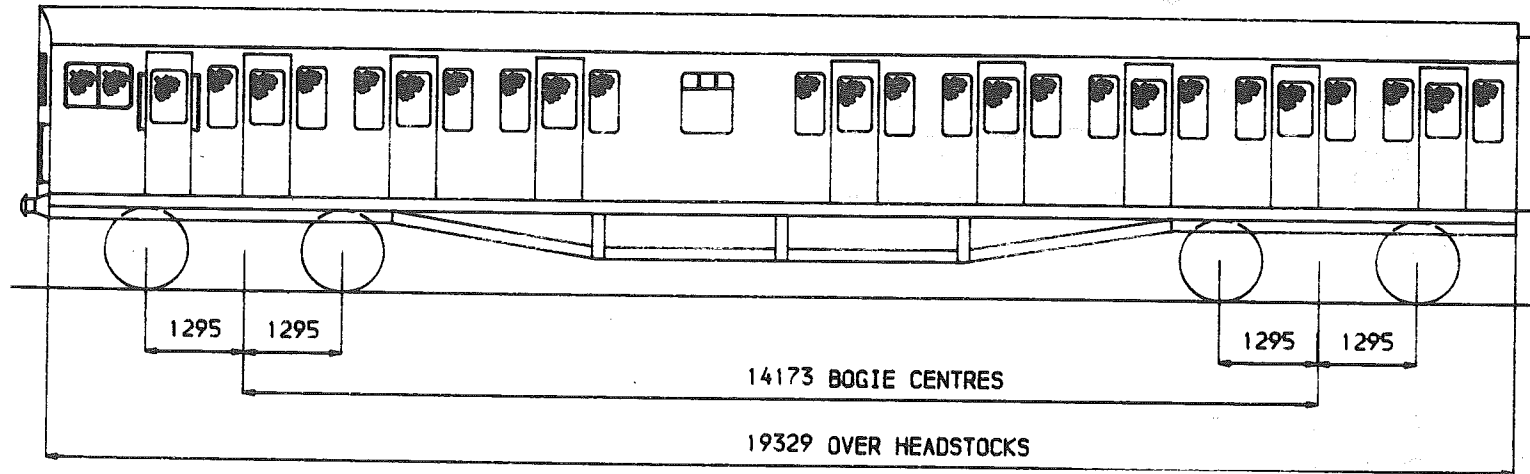
NONE

DRIVING TRAILER SECOND

CLASS 205/1

DTS

DE 204



SEATS	76
TOILETS	2
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	-
CATERING EQUIPMENT	-

ISSUE 1 DATE SEP' 80

DE 204

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A. V. S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC
S.R. MK 4 UNPOWERED
STEEL
AUTOMATIC DROPHEAD (BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC (BR)
75
3.5
FLUORESCENT & TUNGSTEN
32.5
PULLMAN WITH RIGID (GRP) INNER PANELS-INNER END ONLY
FITTED
NOT FITTED
RETRACTABLE SPINDLE (559X356 OVAL) OUTER END ONLY

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLIEGH - REFURBISHED 1980 (PROTOTYPE)

BASIC TYPE

DE 204 0A

VARIANTS

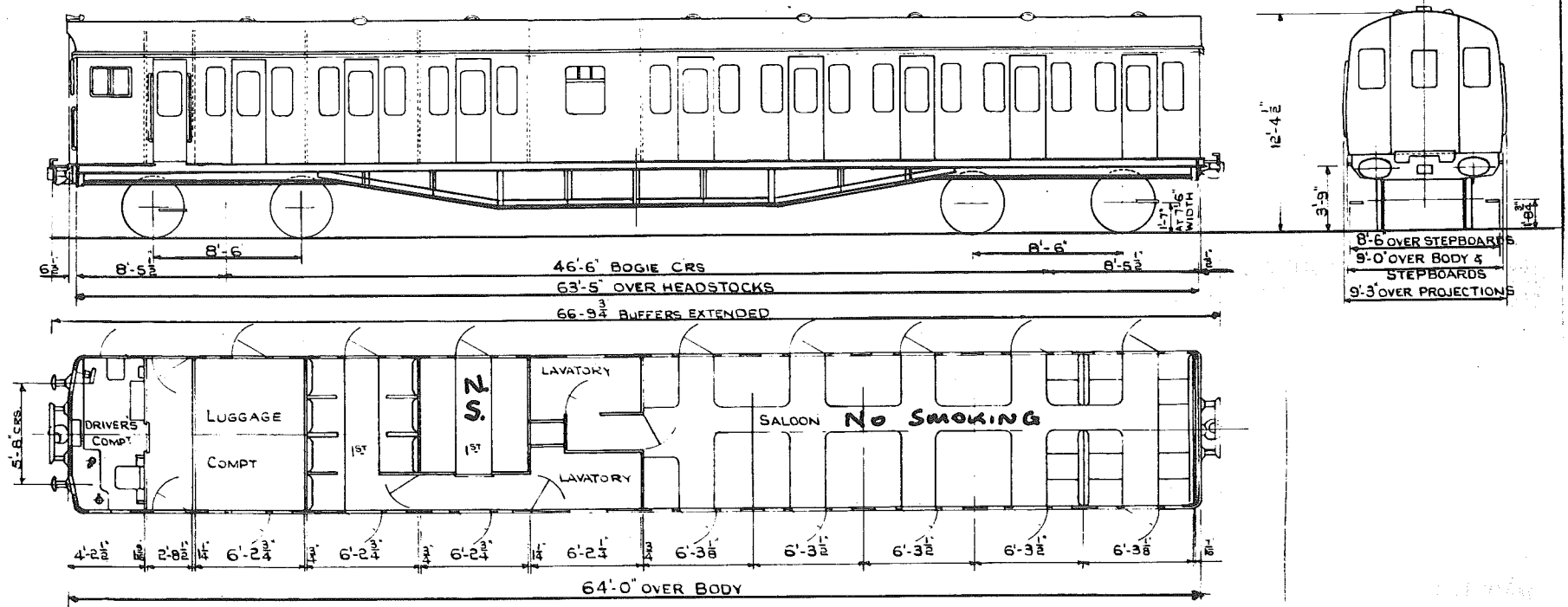
NONE

DRIVING TRAILER COMPOSITE

CLASS 204
205
205/1

DTC

DE 301



- | | |
|---------------------|--|
| SEATS | 13 FIRST CLASS 50 SECOND CLASS |
| TOILETS | 2 |
| COMPARTMENTS | 2 FIRST CLASS PLUS SECOND CLASS SALOON |
| GUARDS COMPARTMENTS | - |
| VENTILATION | - |
| CATERING EQUIPMENT | - |

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 679

ISSUE 5 DATE DEC 85

DE 301

BASIC TYPE

ALTERNATIVES

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

ELECTRO PNEUMATIC
S.R.MK 4 UNPOWERED
STEEL
AUTOMATIC DROPHEAD(BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO 2) INNER END
ELECTRIC(BR)
75
3.5
TUNGSTEN
32.5
NOT FITTED
FITTED
NOT FITTED
RETRACTABLE SPINDLE(559 X 356 OVAL) OUTER END ONLY

TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.W.S.
TRAIN COMMUNICATION
BUFFERS

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DE 301 0A

VARIANTS

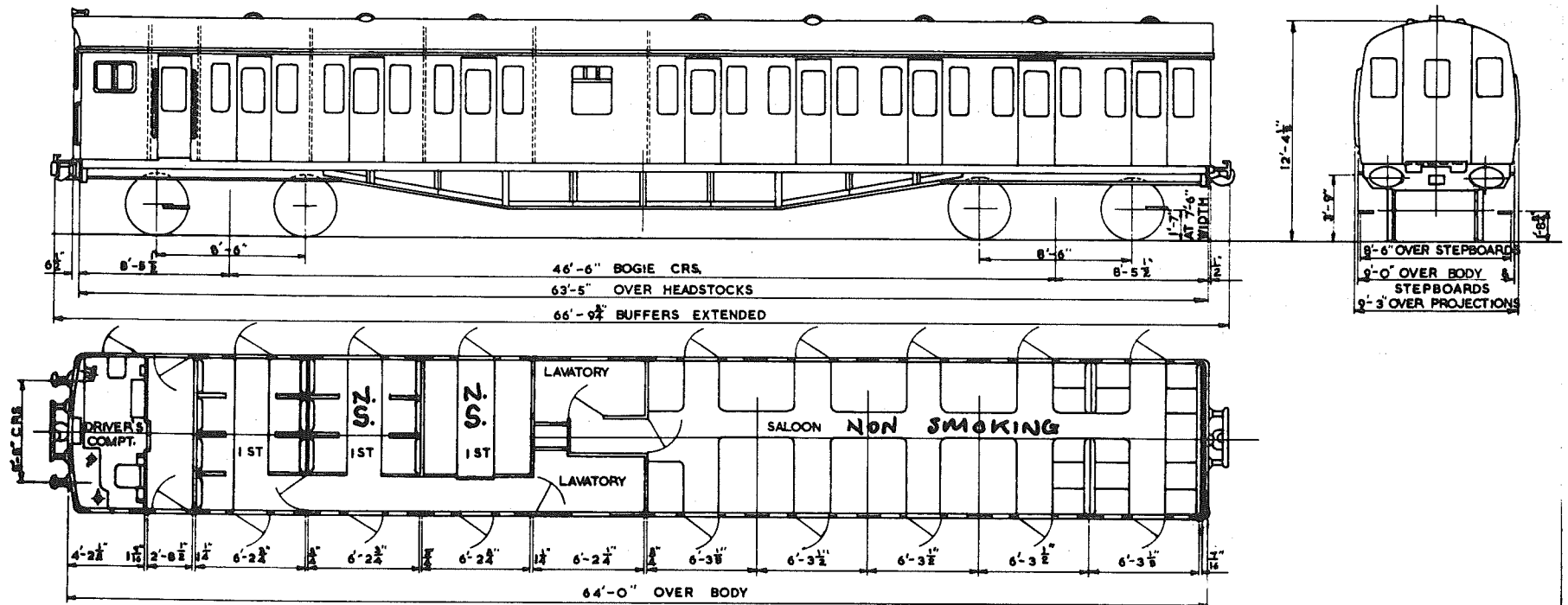
NONE

DRIVING TRAILER COMPOSITE

CLASS 205

DTC

DE 302



- | | |
|---------------------|--|
| SEATS | 19 FIRST CLASS 50 SECOND CLASS |
| TOILETS | 2 |
| COMPARTMENTS | 3 FIRST CLASS PLUS SECOND CLASS SALOON |
| GUARDS COMPARTMENTS | - |
| VENTILATION | - |
| CATERING EQUIPMENT | - |

ORIGINAL DIAGRAMS FOR REFERENCE - BR 683

ISSUE 2 DATE NOV '84

DE 302

BASIC TYPE

ELECTRO-PNEUMATIC
S.R.MK 4 UNPOWERED
STEEL
AUTOMATIC DROPHEAD(BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC(BR)
75
3.5
TUNGSTEN
32.5
NOT FITTED
FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY

ALTERNATIVES

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.W.S.
TRAIN COMMUNICATION
BUFFERS

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DE 302 0A

VARIANTS

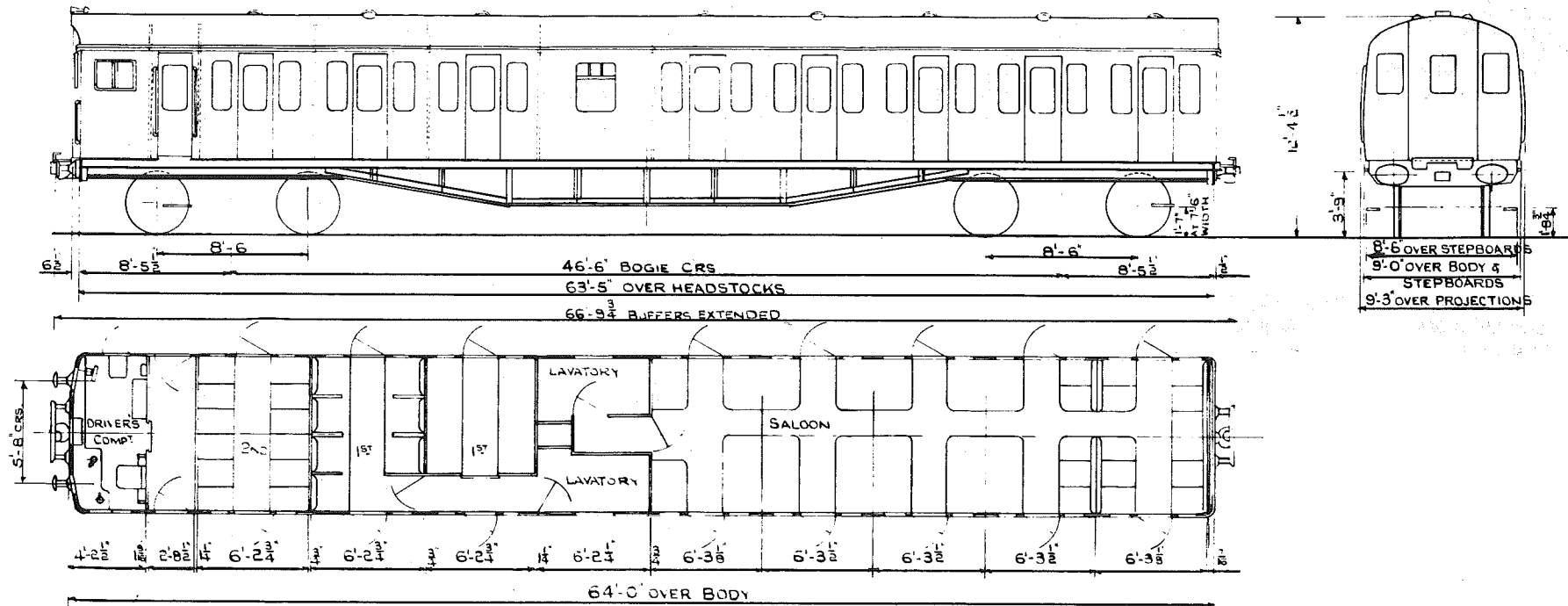
NONE

DRIVING TRAILER COMPOSITE

CLASS 205

DTC

DE 303



SEATS
TOILETS
COMPARTMENTS
GUARDS COMPARTMENTS
VENTILATION
CATERING EQUIPMENT

13 FIRST CLASS 42 SECOND CLASS
2
2 FIRST CLASS 1 SECOND CLASS PLUS SECOND CLASS SALOON
-
-
-

ORIGINAL DIAGRAMS FOR REFERENCE, -
BR 480

ISSUE 1 DATE SEP 80

DE 303

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS

TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A. V. S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC
S.R. MK 4 UNPOWERED
STEEL
AUTOMATIC DROPHEAD (BUCKEYE) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC (BR)
75
3.5
ELECTRIC
34.5
NOT FITTED
FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DE 303 0A

VARIANTS

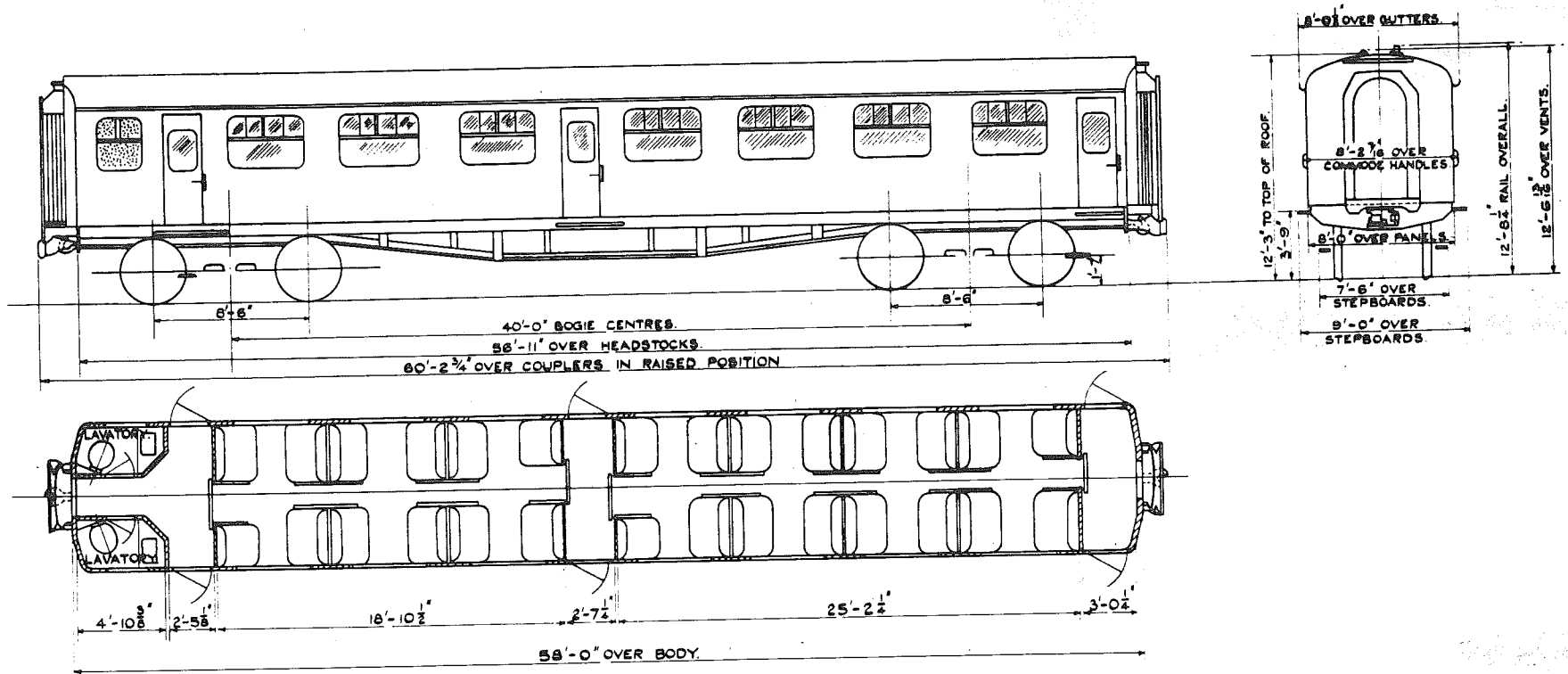
NONE

TRAILER SECOND

CLASS 201

TS

DH 201



SEATS	52
TOILETS	2
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	-
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 670

ISSUE 2 DATE DEC '81

DH 201

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC
S.R. MK 4 UNPOWERED
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO.2)
ELECTRIC (BR)
75
3.5
ELECTRIC
29.5
EXPRESS ELECTRIC
NOT FITTED
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 201 0A

VARIANTS

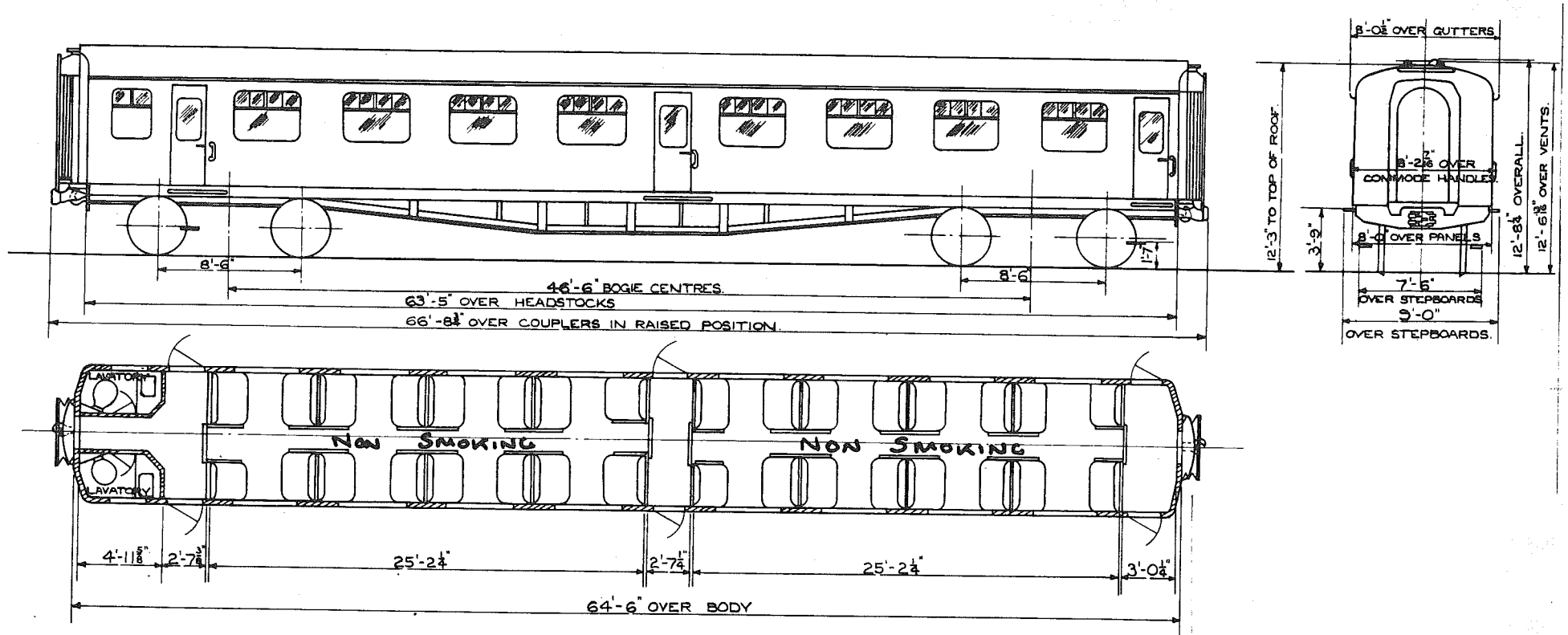
NONE

TRAILER SECOND

CLASS 202
203

TS

DH 202



SEATS	60
TOILETS	2
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	-
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 671

ISSUE 2 DATE NOV '84

DH 202

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC
S.R.MK 4 UNPOWERED
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE NO.2)
ELECTRIC(BR)
75
3.5
TUNGSTEN
30.5
EXPRESS ELECTRIC
NOT FITTED
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

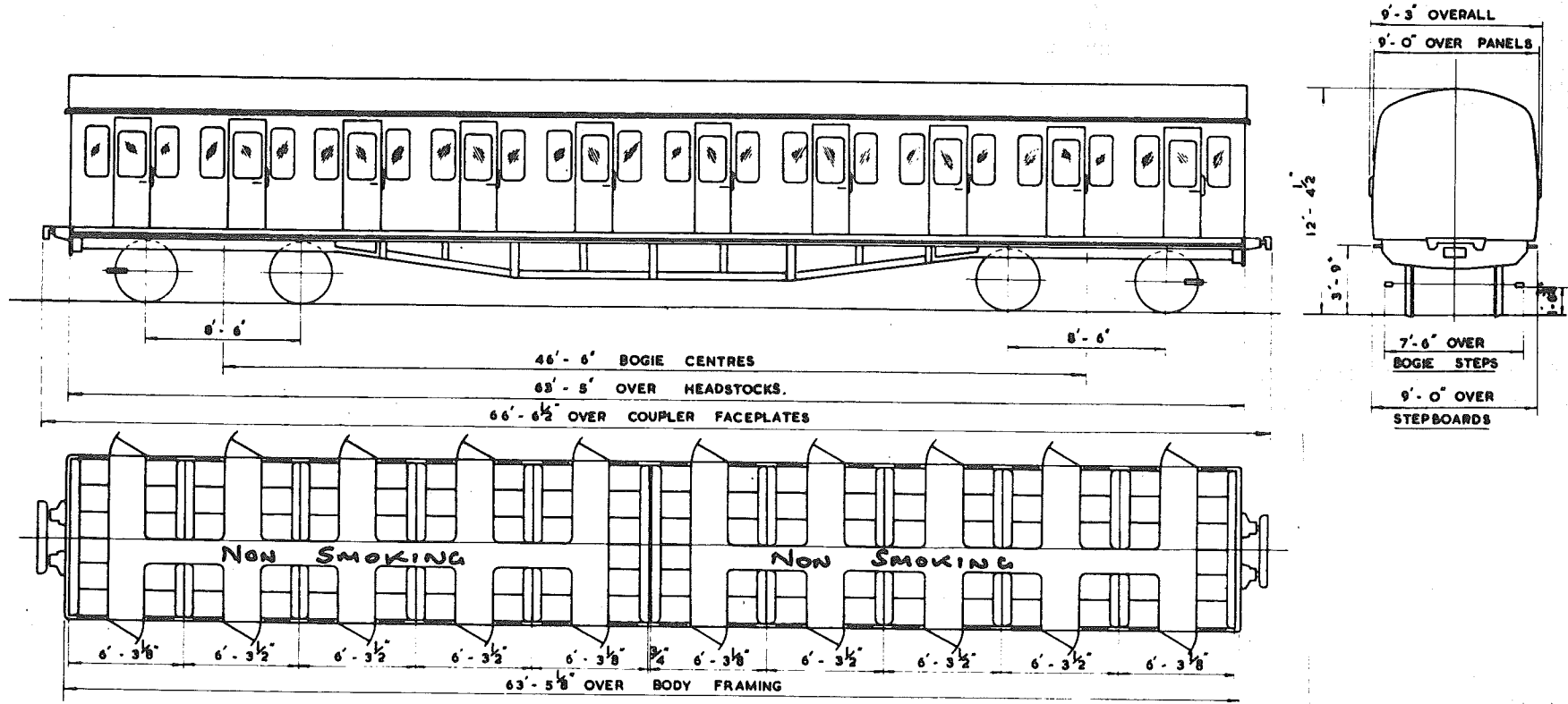
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 202 OA

VARIANTS

NONE



SEATS	104
TOILETS	-
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	-
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 672

ISSUE 4 DATE NOV '84

DH 203

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO-PNEUMATIC
S.R.MK 4 UNPOWERED
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO.2)
ELECTRIC (BR)
75
3.5
TUNGSTEN
30.5
NOT FITTED
NOT FITTED
NOT FITTED

ALTERNATIVES

FLUORESCENT

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 203 OA

VARIANTS

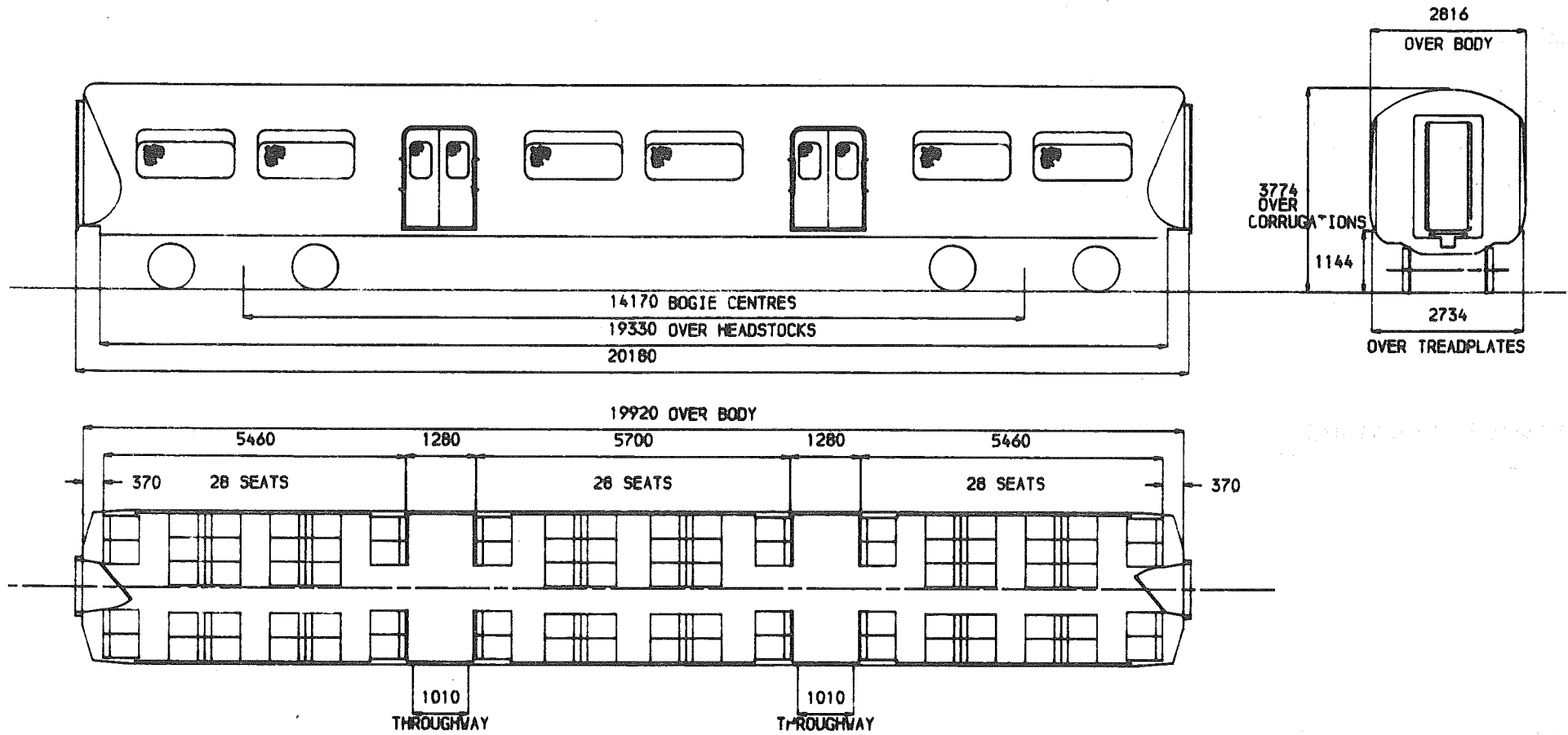
1B CLASS 205/1-PROTOTYPE REFURBISHED VEHICLE-FLUORESCENT & TUNGSTEN LIGHTING.

TRAILER SECOND

CLASS 210

TS

DH 205



SEATS	84
TOILETS	-
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	PRESSURE
CATFRING EQUIPMENT	-

ISSUE	DATE
3	AUG '82

DH 205

BASIC TYPE

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED H.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

ELECTRO-PNEUMATIC (WESTCODE)
BT13
STEEL
BAR
ELECTRIC (BR) WITH PRESSURE VENTILATION & HEATING
90
3.5
FLUORESCENT
26.5
FLEXIBLE DIAPHRAGM/RIGID (GRP)
PUBLIC ADDRESS
NOT FITTED

ALTEPNATIVES

TRACTION DATA FOR MULTIPLE UNITS

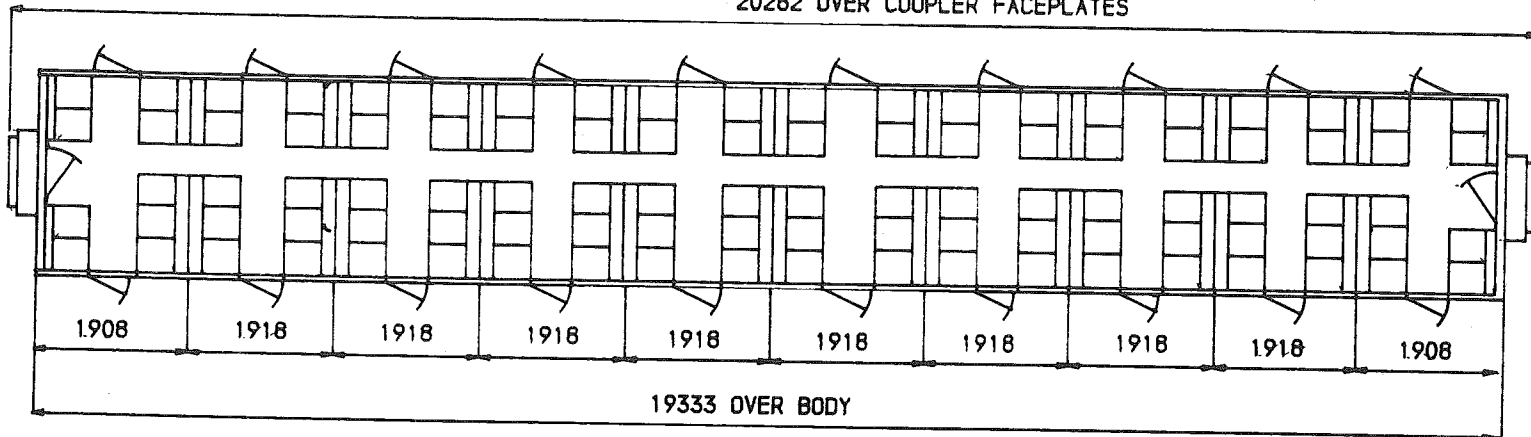
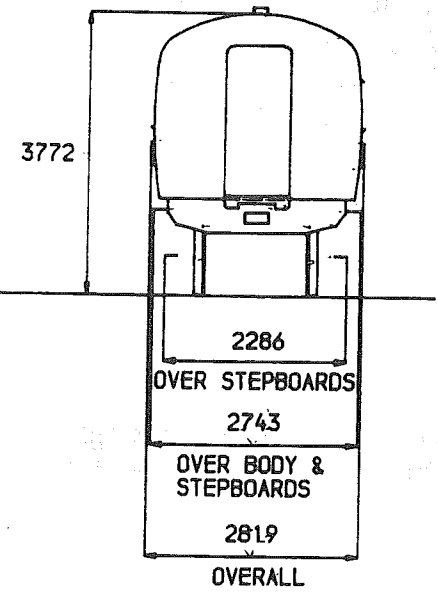
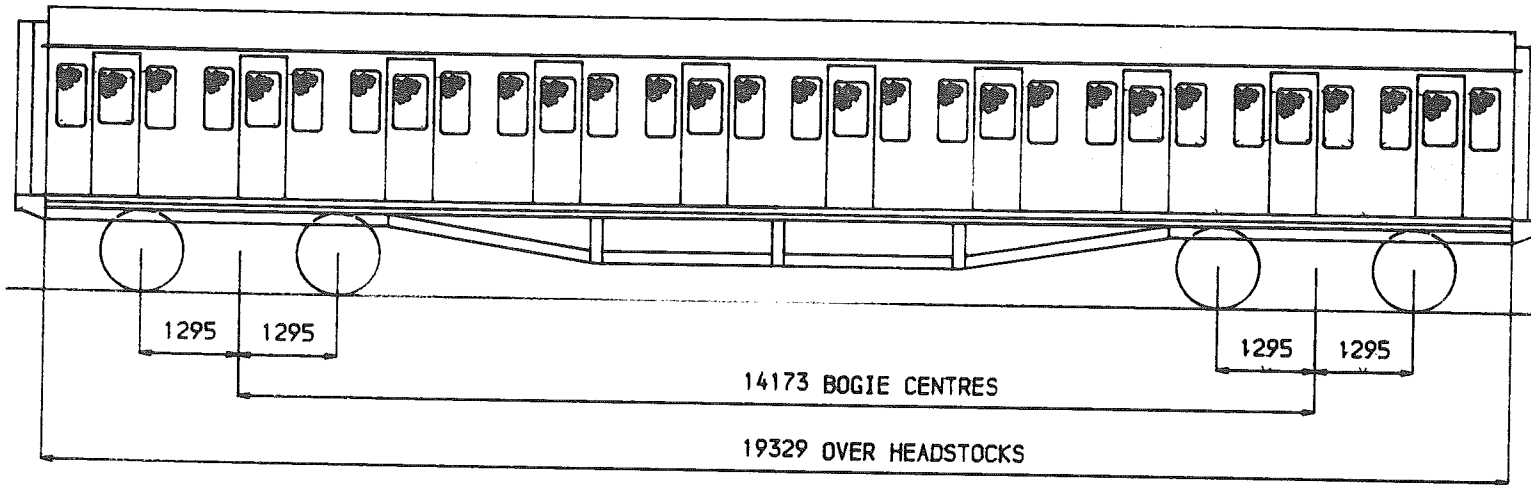
DEMU-BUILDER BR DERBY-PROTOTYPE

BASIC TYPE

DH 205 0A

VARIANTS

NONE



SEATS	98
TOILETS	-
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	-
CATERING EQUIPMENT	-

ISSUE 2. DATE DEC' 81

DH 206

BASIC TYPE

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

ELECTRO-PNEUMATIC
S.R. MK 4 UNPOWERED
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO 2)
ELECTRIC (BR)
75
3.5
FLUORESCENT
30.5
PULLMAN WITH RIGID (GRP) INNER PANELS
NOT FITTED
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

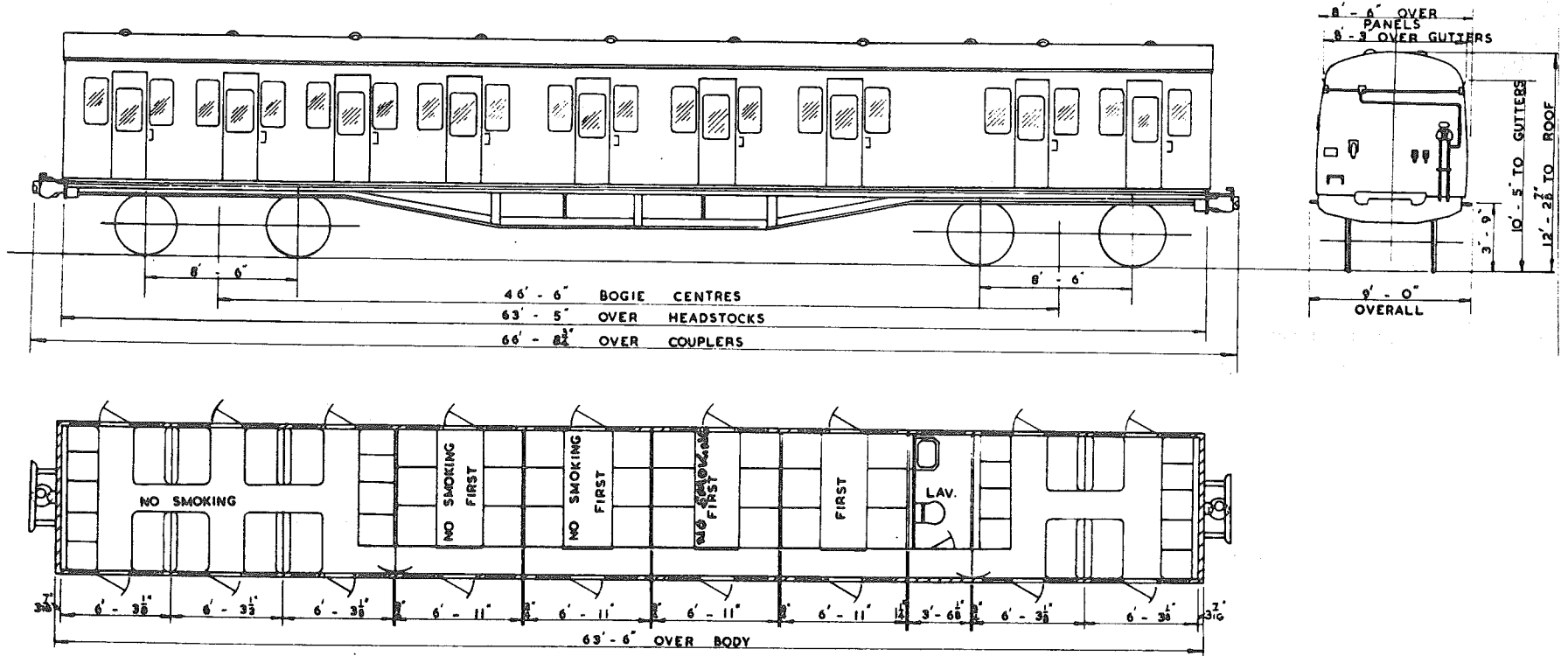
DEMU-BUILDER BR EASTLIEGH - REFURBISHED 1980 (PROTOTYPE)

BASIC TYPE

DH 206 0A

VARIANTS

NONE



- | | |
|---------------------|---|
| SEATS | 24 FIRST CLASS 42 SECOND CLASS |
| TOILETS | 1 |
| COMPARTMENTS | 4 FIRST CLASS PLUS 2 SECOND CLASS SALOONS |
| GUARDS COMPARTMENTS | - |
| VENTILATION | - |
| CATERING EQUIPMENT | - |

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 667

ISSUE 2 DATE NOV '84

DH 301

BASIC TYPE

ELECTRO-PNEUMATIC
S.R.MK 3A UNPOWERED
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO.2)
ELECTRIC (BR)
75
3.5
TUNGSTEN
31.5
NOT FITTED
NOT FITTED
NOT FITTED

ALTERNATIVES

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 301 OA

VARIANTS

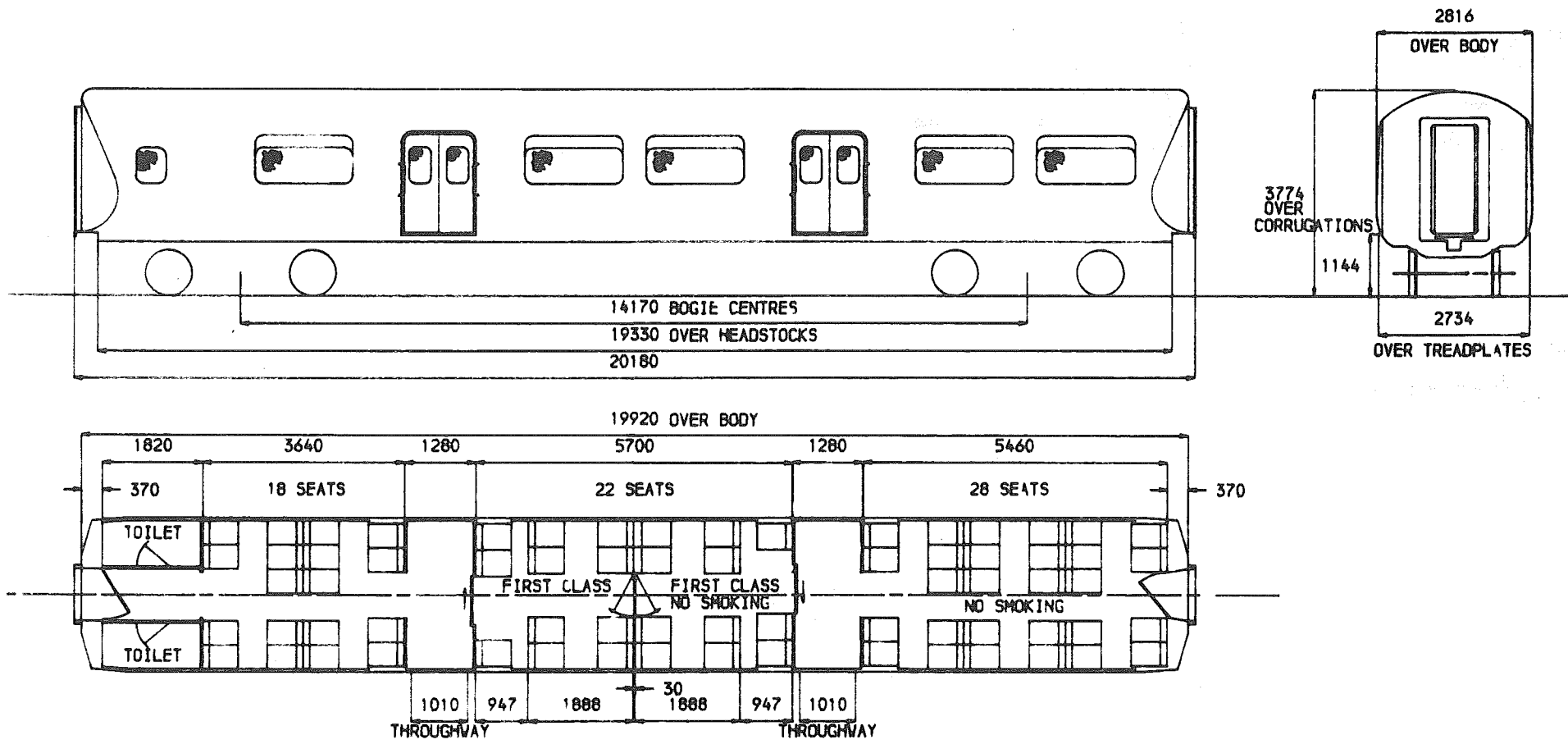
NONE

TRAILER COMPOSITE

CLASS 210

TC

DH 302



- | | |
|---------------------|--------------------------------|
| SEATS | 22 FIRST CLASS 46 SECOND CLASS |
| TOILETS | 2 |
| COMPARTMENTS | - |
| GUARDS COMPARTMENTS | - |
| VENTILATION | PRESSURE |
| CATERING EQUIPMENT | - |

ISSUE 2 DATE AUG' 82

DH 302

BASIC TYPE

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

ELECTRO-PNEUMATIC (WESTCODE)
BT13
STEEL
BAR
ELECTRIC (BR) WITH PRESSURE VENTILATION & HEATING
90
3.5
FLUORESCENT & TUNGSTEN
26.5
FLEXIBLE DIAPHRAGM/RIGID (GRP)
PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR DERBY-PROTOTYPE

BASIC TYPE

D4 302 0A

VARIANTS

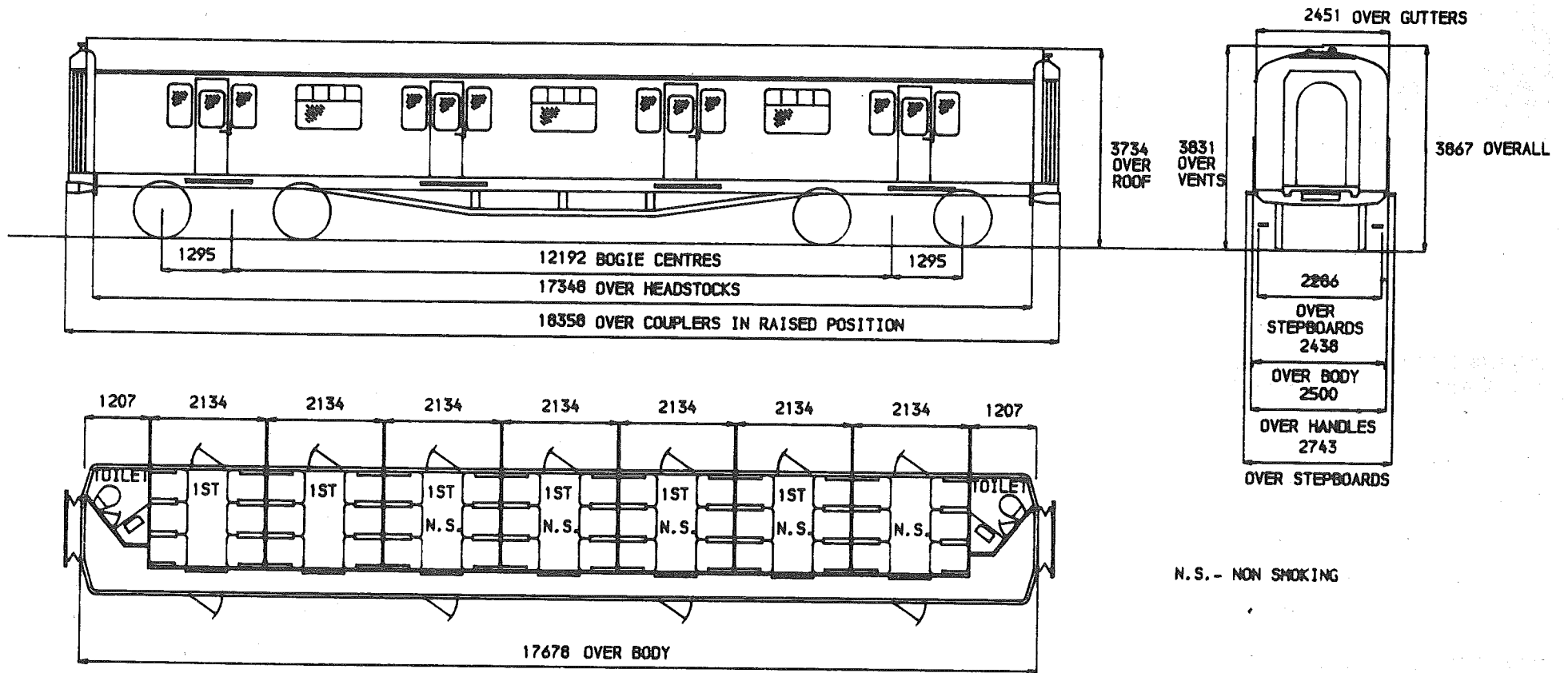
NONE

TRAILER COMPOSITE

CLASS 201

TC

DH 303



N.S. - NON SMOKING

SEATS	36 FIRST CLASS 6 SECOND CLASS
TOILETS	2
COMPARTMENTS	6 FIRST CLASS 1 SECOND CLASS
GUARDS COMPARTMENTS	-
VENTILATION	-
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 660

ISSUE	DATE
1	JUN '81

DH 303

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.V.S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO PNEUMATIC
S.R. MK 4 UNPOVERED
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO 2)
ELECTRIC (BR)
75
3.5
TUNGSTEN
30.5
EXPRESS ELECTRIC
NOT FITTED
NOT FITTED
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 303 0A

VARIANTS

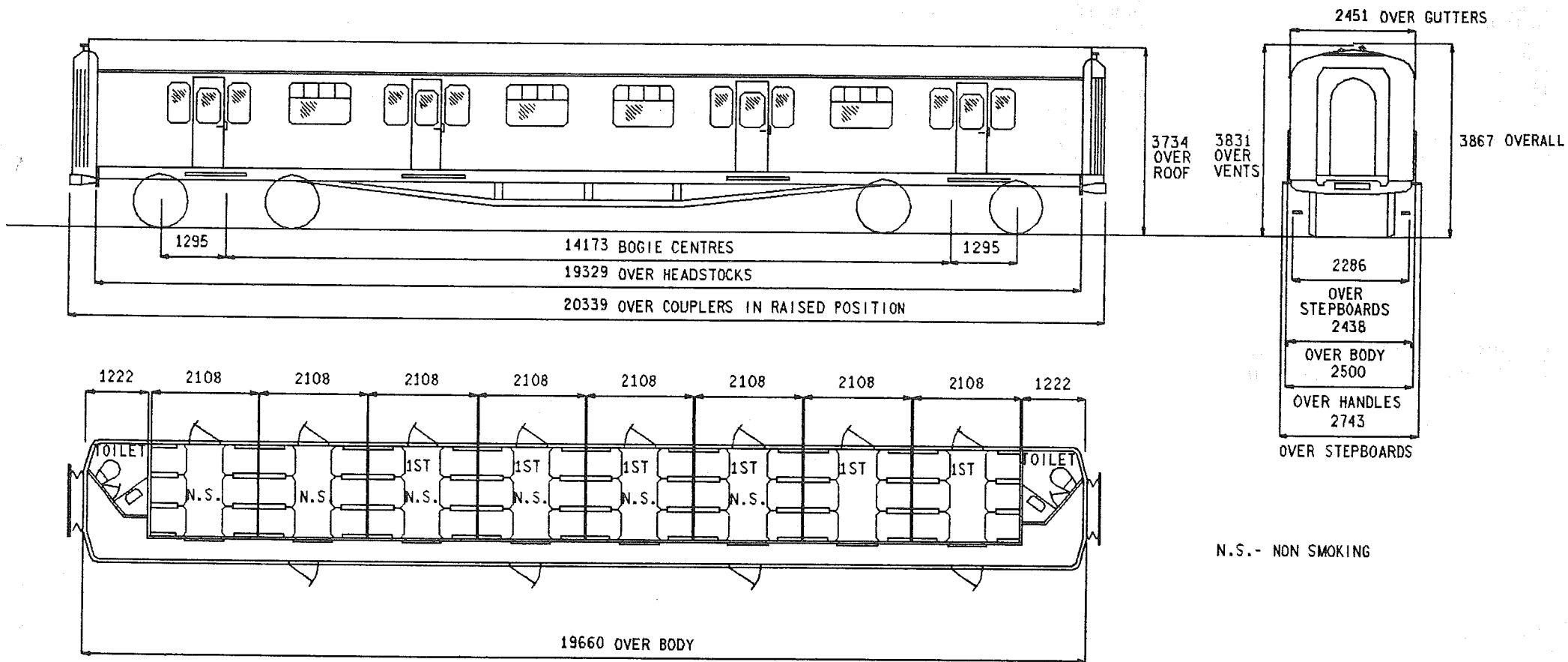
NONE

TRAILER COMPOSITE

CLASS 201
202
203

TC

DH 304



N.S.- NON SMOKING

SEATS	36 FIRST CLASS 12 SECOND CLASS
TOILETS	2
COMPARTMENTS	6 FIRST CLASS 2 SECOND CLASS
GUARDS COMPARTMENTS	-
VENTILATION	-
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 661

ISSUE 2 DATE NOV '84

DH 304

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
A.W.S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO PNEUMATIC
S.R.MK 4 UNPOWERED
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO 2)
ELECTRIC (BR)
75
3.5
TUNGSTEN
31.5
EXPRESS ELECTRIC
NOT FITTED
NOT FITTED
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

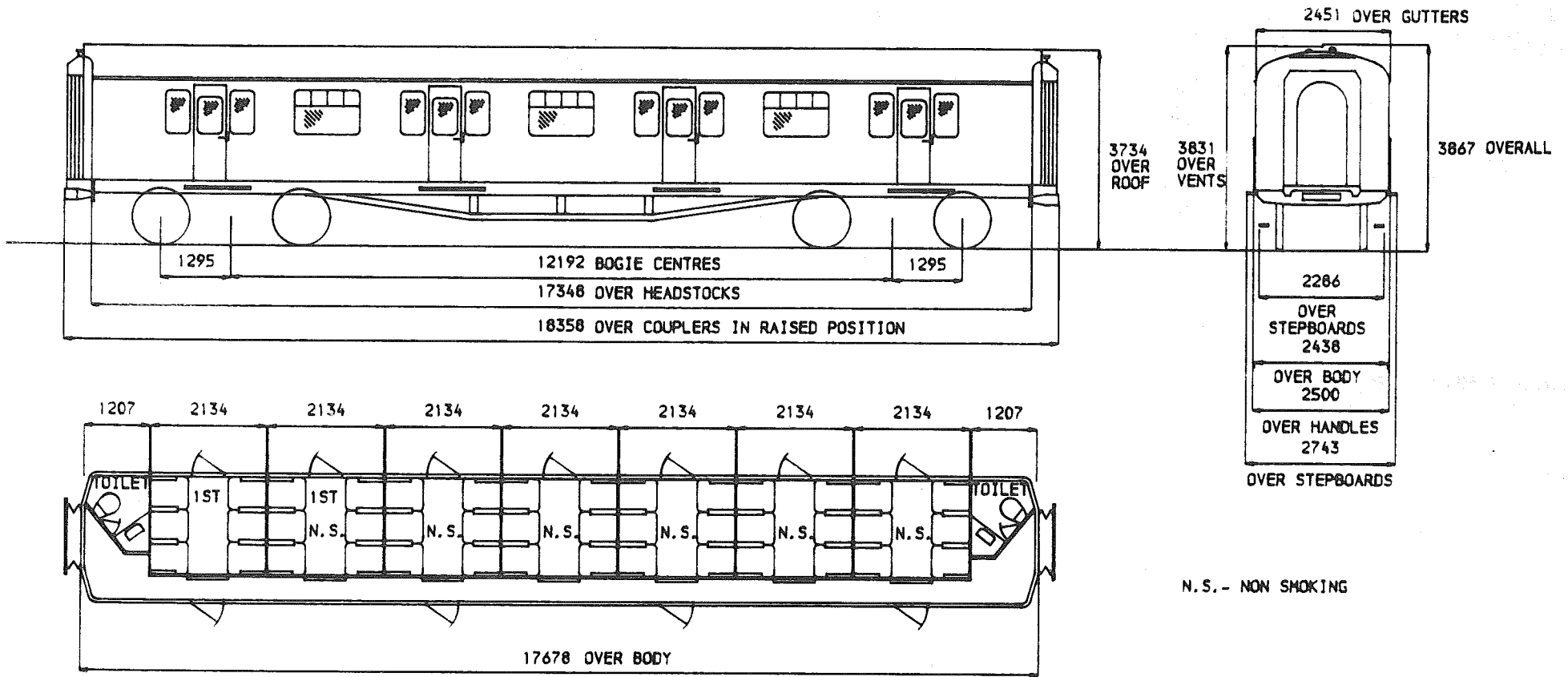
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 304 OA

VARIANTS

NONE



N.S. - NON SMOKING

SEATS	12 FIRST CLASS 30 SECOND CLASS
TOILETS	2
COMPARTMENTS	2 FIRST CLASS 5 SECOND CLASS
GUARDS COMPARTMENTS	-
VENTILATION	-
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE, -
BR 660

ISSUE DATE
1 JUN '81

DH 305

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE VEIGHT TONNES
GANGWAYS
A.V.S.
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

ELECTRO PNEUMATIC
S.R. MK 4 UNPOWERED
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO 2)
ELECTRIC (BR)
75
3.5
TUNGSTEN
30.5
EXPRESS ELECTRIC
NOT FITTED
NOT FITTED
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

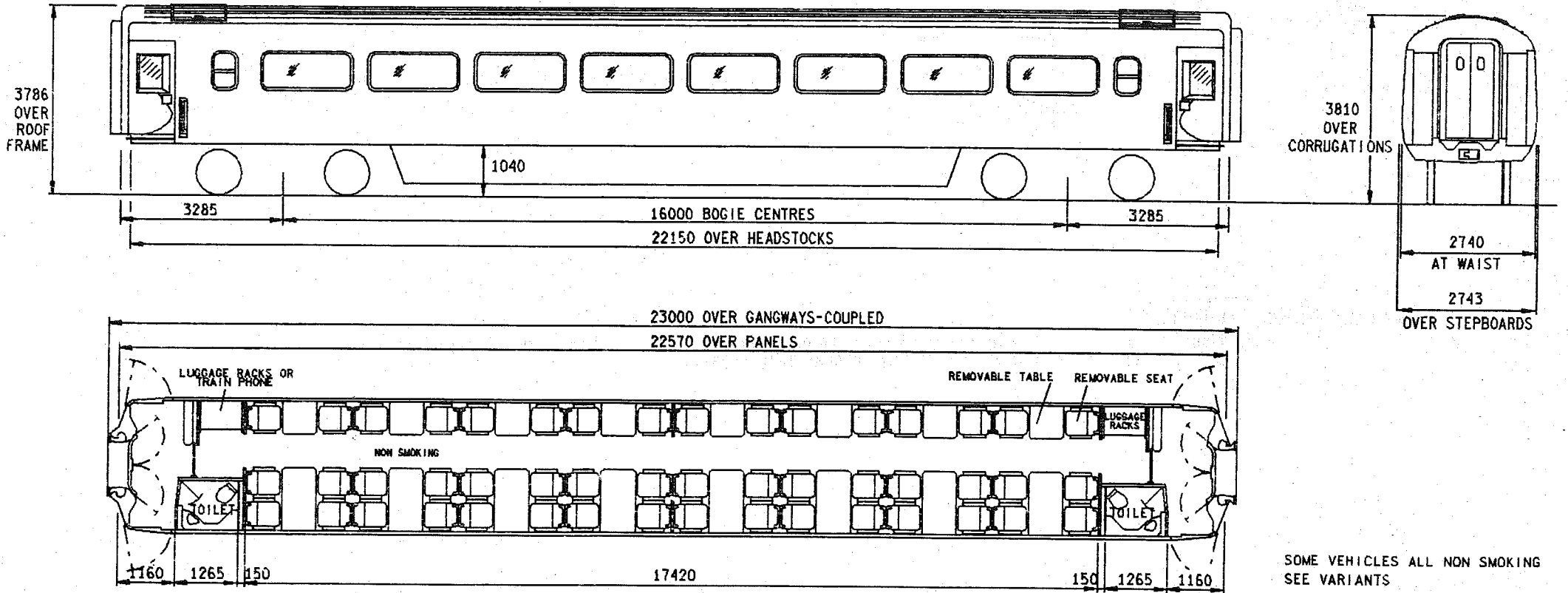
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 305 0A

VARIANTS

NONE



SOME VEHICLES ALL NON SMOKING
SEE VARIANTS

SEATS	48
TOILETS	2
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	FULL AIR CONDITIONING
CATERING EQUIPMENT	-

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 666

ISSUE 7 DATE MAR 87

GH 102

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS
SEATS

BASIC TYPE

AIR
BT10
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE No 2 LONG SHANK)
ELECTRIC(BR)FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
33
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS
NOT FITTED
INTER-CITY 70

ALTERNATIVES

BT10b-CLASS 253

4.1

33.5

PA + TRAIN PHONE

IC 80

TRACTION DATA FOR MULTIPLE UNITS

HST- INTRODUCED CLASS 253 WESTERN REGION 1976, WEST OF ENGLAND 1979, NORTHEAST/SOUTHWEST INTRODUCED 1981,
CLASS 254 EASTERN REGION 1978, DECLASSIFIED 1987.

BASIC TYPE

GH 102 OA

VARIANTS

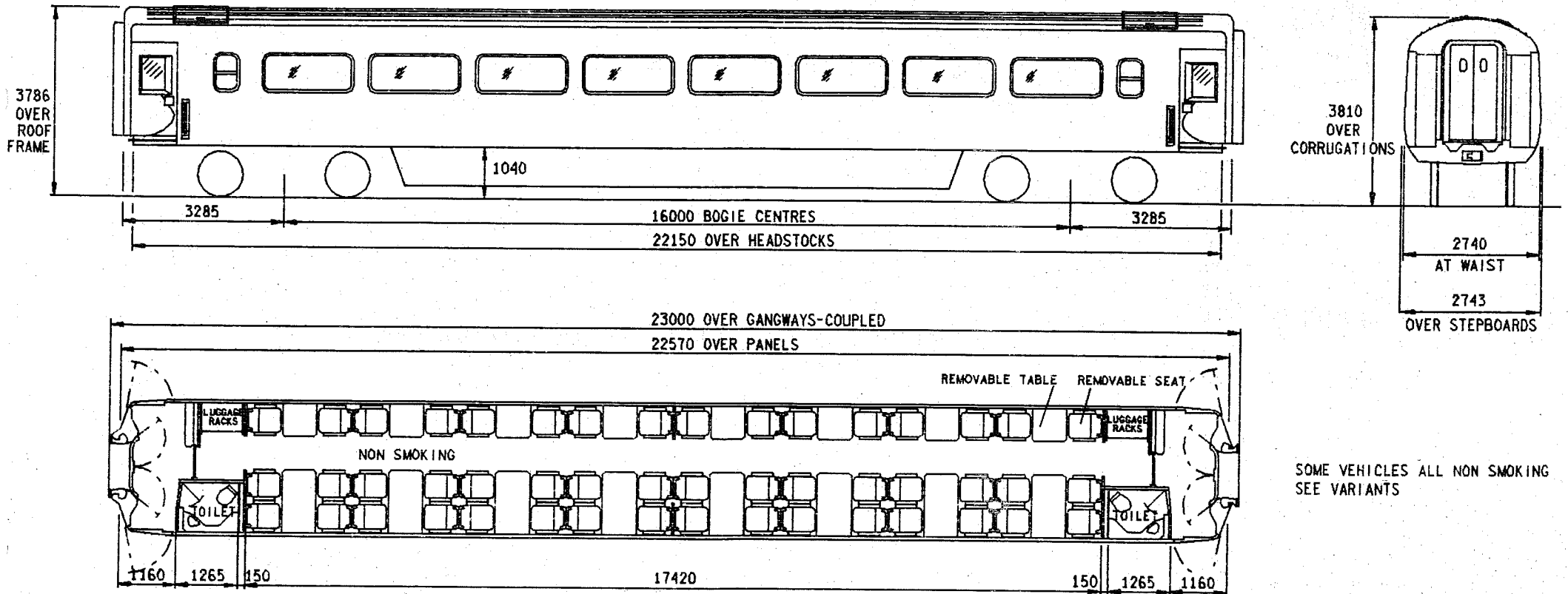
0B BT10b-CLASS 253 BOGIES, TARE 33.5.
0D BT10b-CLASS 253 BOGIES, TARE 33.5, IC 80 SEATS.
0E ALL NON SMOKING.
0F ALL NON SMOKING, BT10b-CLASS 253 BOGIES, TARE 33.5.
1C CONVERTED PROTOTYPE, 4.1 MIN.RAD.CURVE
1G ALL NON SMOKING, CONVERTED PROTOTYPE, 4.1 MIN.RAD.CURVE
2A TRAIN PHONE.
2B BT10b-CLASS 253 BOGIES, TARE 33.5, TRAIN PHONE.
2D BT10b-CLASS 253 BOGIES, TARE 33.5, TRAIN PHONE, IC 80 SEATS.
2E TRAIN PHONE, ALL NON SMOKING.

TRAILER FIRST-HST

CLASS ---

TF

GH 103



SOME VEHICLES ALL NON SMOKING
SEE VARIANTS

- | | |
|---------------------|-----------------------|
| SEATS | 48 |
| TOILETS | 2 |
| COMPARTMENTS | - |
| GUARDS COMPARTMENTS | - |
| VENTILATION | FULL AIR CONDITIONING |
| CATERING EQUIPMENT | - |

ISSUE 2 DATE MAY 81

GH 103

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

AIR
BT10
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE No 2 LONG SHANK)
ELECTRIC(BR)FULL AIR CONDITIONING
125
4.1
FLUORESCENT & TUNGSTEN
34
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

HST-

CLASS 254 EASTERN REGION 1978,RECLASSIFIED - MOD X1M103/001 1983,DECLASSIFIED 1987.

BASIC TYPE

GH 103 0A.

VARIANTS

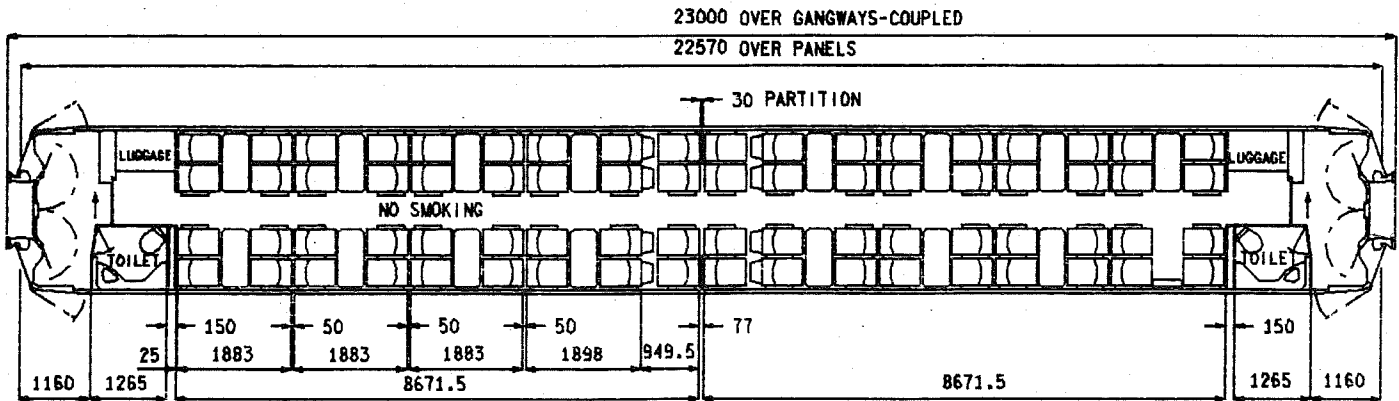
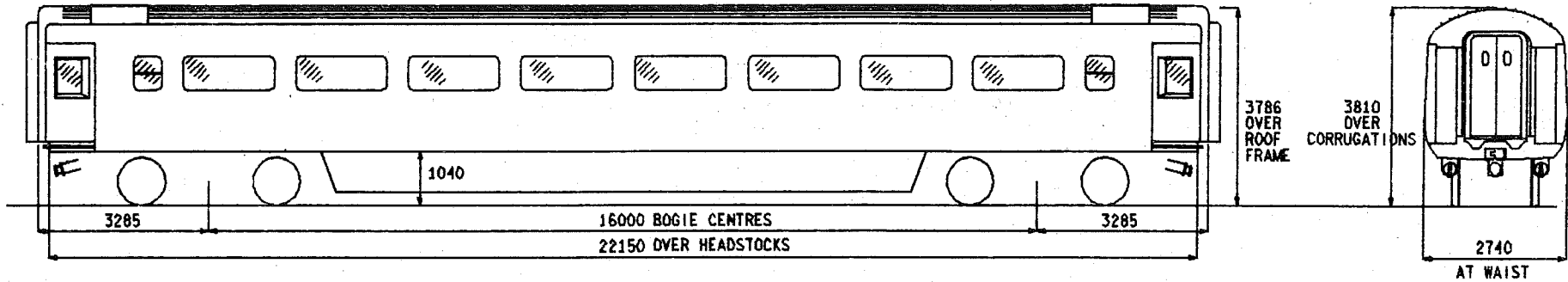
OB ALL NON SMOKING.

TRAILER SECOND-HST

CLASS ---

TS

GH 202



SOME VEHICLES ALL NON SMOKING
SEE VARIANTS

SEATS
TOILETS
COMPARTMENTS
GUARDS COMPARTMENTS
VENTILATION
CATERING EQUIPMENT

72
2
-
-
FULL AIR CONDITIONING
-

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 675

ISSUE DATE
3 MAR 87
(visit <http://www.barrowmoremrg.co.uk>)

GH 202

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS

TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

AIR
BT10
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO.2-LONG SHANK)
ELECTRIC (BR) FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
35
CENTRALLY SUPPORTED-SWIVELLING-FOAM DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

BT10b

34,33.5
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-
STEEL FACE PLATE

TRACTION DATA FOR MULTIPLE UNITS

HST-

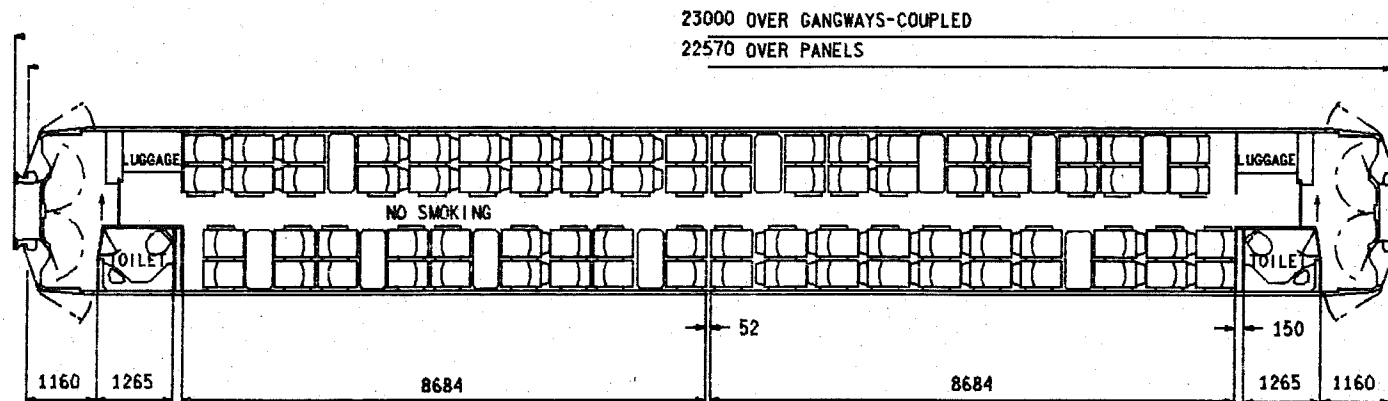
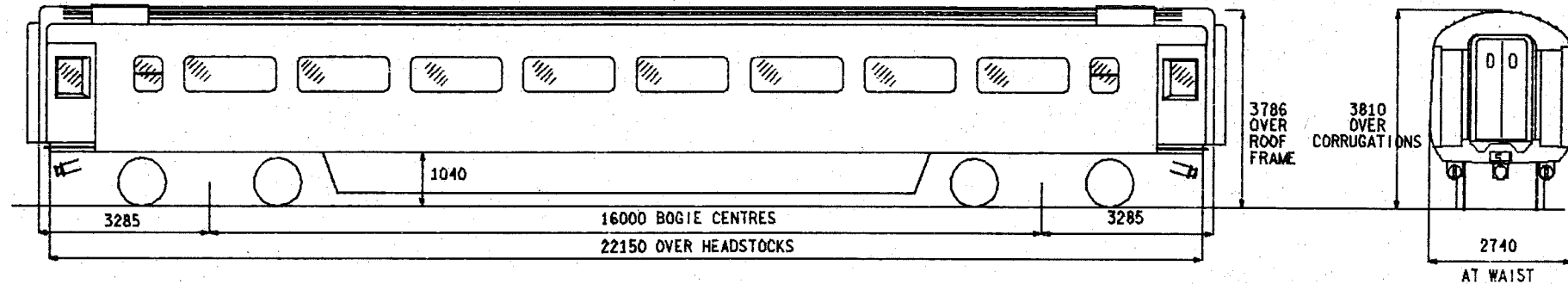
INTRODUCED-CLASS 253 W.R.1976,W.OF ENGLAND 1979,NORTHEAST/SOUTHWEST 1981-CLASS 254 E.R.1978.DECLASSIFIED 1987.

BASIC TYPE

GH 202 OA

VARIANTS

OB TARE 34,GANGWAY HAS FLEXIBLE DIAPHRAGM.
OC TARE 33.5,GANGWAY HAS FLEXIBLE DIAPHRAGM,BT10b BOGIES.
OD ALL NON SMOKING.
OE TARE 34,GANGWAY HAS FLEXIBLE DIAPHRAGM,ALL NON SMOKING.
OF TARE 33.5,GANGWAY HAS FLEXIBLE DIAPHRAGM,BT10b BOGIES,ALL NON SMOKING.



SOME VEHICLES ALL NON SMOKING
SEE VARIANTS

SEATS	76
TOILETS	2
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	FULL AIR CONDITIONING
CATERING EQUIPMENT	-

ISSUE DATE
5 MAR 87

GH 203

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS
SEATS

BASIC TYPE

AIR
BT10 b
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO.2-LONG SHANK)
ELECTRIC (BR) FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
33.5
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS
NOT FITTED
INTER CITY 70

ALTERNATIVES

BT10 d

A.P.T.

TRACTION DATA FOR MULTIPLE UNITS

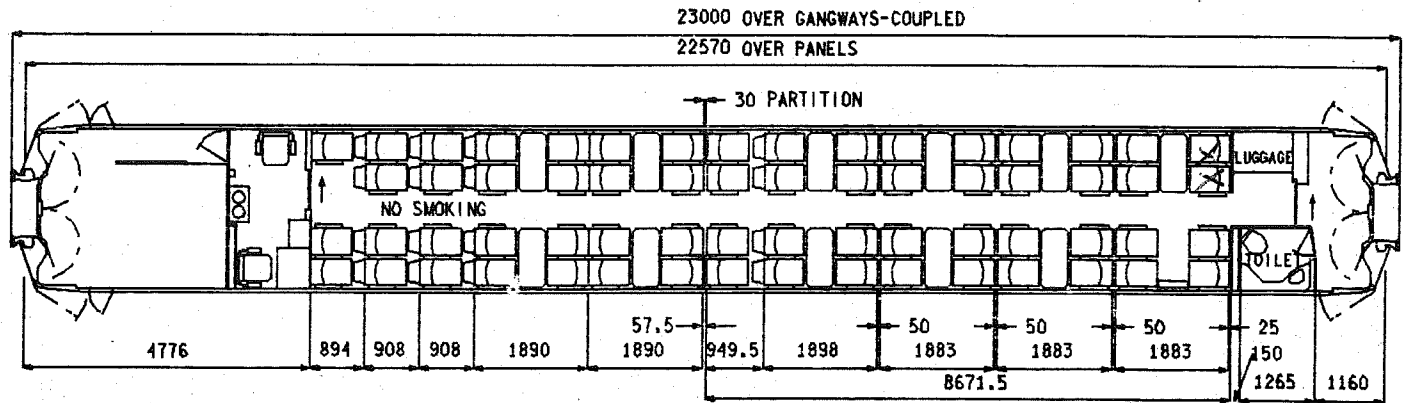
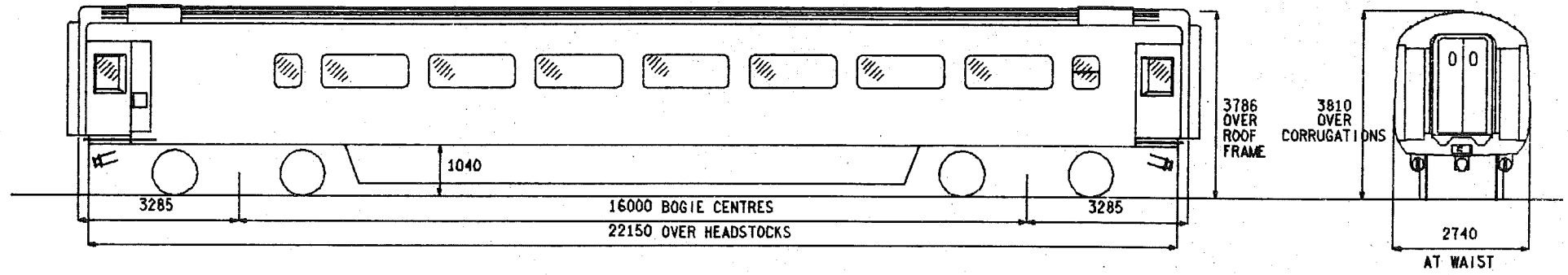
HST- INTRODUCED-CLASS 253 W.R.1976,W.OF ENGLAND 1979,NORTHEAST/SOUTHWEST 1981.
MODIFIED FOR EXECUTIVE HST 1983,DECLASSIFIED 1987.

BASIC TYPE

GH 203 OA

VARIANTS

OB A.P.T. SEATS
OC BT10 d BOGIES
OD ALL NON SMOKING.
OE A.P.T. SEATS, ALL NON SMOKING.
OF BT10 d BOGIES, ALL NON SMOKING.



- | | |
|---------------------|-----------------------|
| SEATS | 63 |
| TOILETS | 1 |
| COMPARTMENTS | - |
| GUARDS COMPARTMENTS | 1 |
| VENTILATION | FULL AIR CONDITIONING |
| CATERING EQUIPMENT | - |

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 676

ISSUE 3
DATE MAR 87

GJ 201

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

AIR
BT10b
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO.2-LONG SHANK)
ELECTRIC (BR) FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
33.5
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS WITH TRANSMITTER
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

HST- INTRODUCED 1983, DECLASSIFIED 1987.

BASIC TYPE

GJ 201 0A

VARIANTS

NONE

GK 101

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS
SEATS

BASIC TYPE

AIR
BT10 & BT10a(ONE OF EACH)
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE NO 2 LONG SHANK)
ELECTRIC(BR) FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
38
CENTRALLY SUPPORTED-SWIVELING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS & TRANSMITTER
NOT FITTED
INTER-CITY 80

ALTERNATIVES

BT10b & BT10c(ONE OF EACH)

39

TRACTION DATA FOR MULTIPLE UNITS

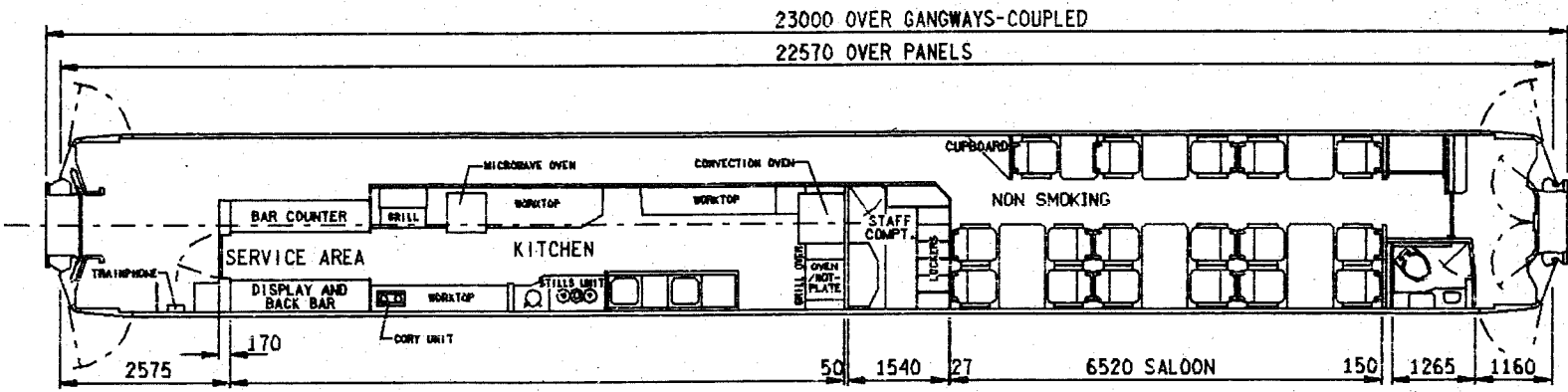
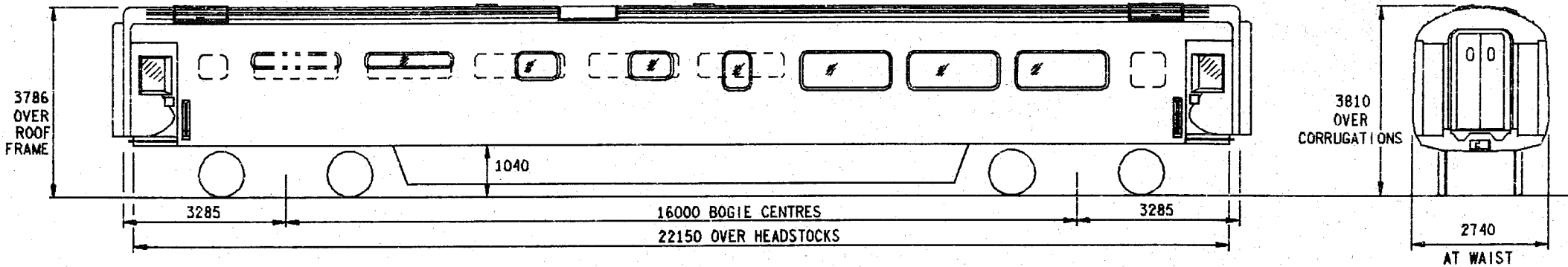
HST INTRODUCED-EASTERN REGION 1978, RECLASSIFIED 1985, DECLASSIFIED 1987.

BASIC TYPE

GK 101 0A

VARIANTS

OB BT10b & BT10c BOGIES(ONE OF EACH), TARE 39.



- | | |
|---------------------|------------------------------|
| SEATS | 17 |
| TOILETS | 1 (STAFF) |
| COMPARTMENTS | - |
| GUARDS COMPARTMENTS | - |
| VENTILATION | FULL AIR CONDITIONING |
| CATERING EQUIPMENT | ELECTRIC-MICROWAVE/MICROAIRE |

ISSUE 1 DATE MAR 87

GK 102

BASIC TYPE

ALTERNATIVES

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS
SEATS

AIR
BT10 & BT10a(ONE OF EACH)
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE No.2 LONG SHANK)
ELECTRIC(BR) FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
39 (EST.)
CENTRALLY SUPPORTED-SWIVELING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS & TRANSMITTER
NOT FITTED
INTER-CITY 70

TRACTION DATA FOR MULTIPLE UNITS

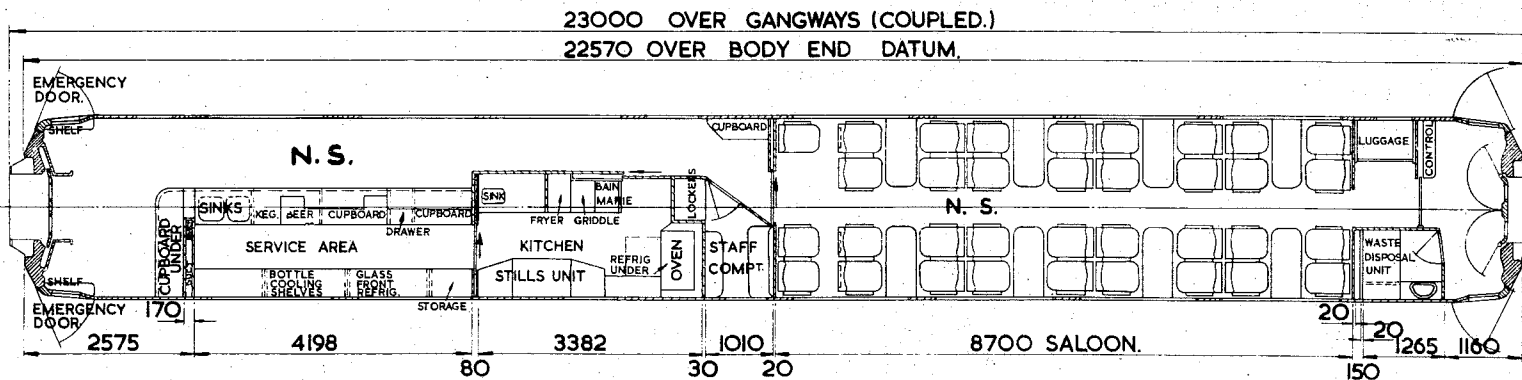
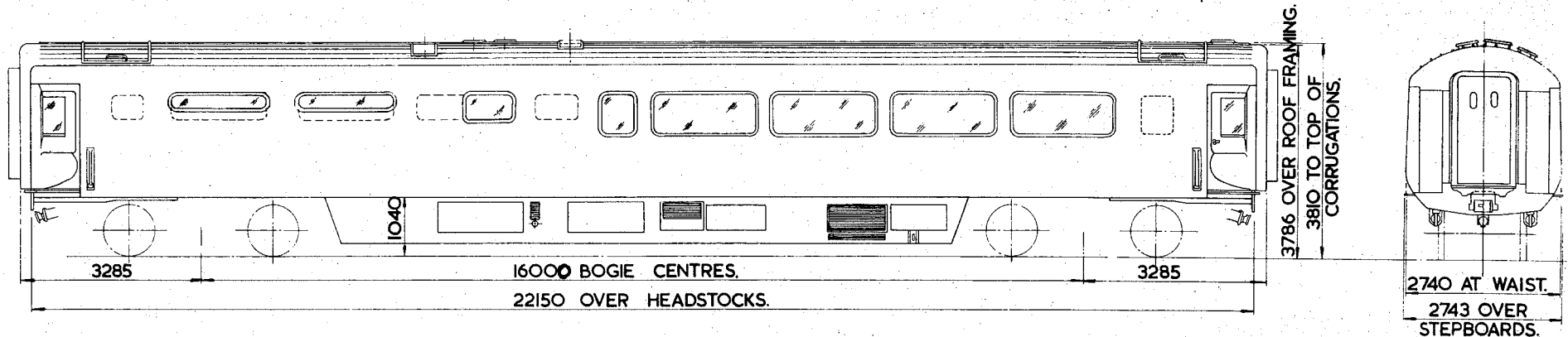
HST INTRODUCED-EASTERN REGION 1978,RECLASSIFIED 1985,CONVERTED TO TRFM & DECLASSIFIED 1987.

BASIC TYPE

GK 102 0A

VARIANTS

NONE



N. S. - NO SMOKING

- SEATS 35
- TOILETS -
- COMPARTMENTS -
- GUARDS COMPARTMENTS -
- VENTILATION FULL AIR CONDITIONING
- CATERING EQUIPMENT ELECTRIC MICROWAVE/MICROAIRE

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 695

ISSUE 4 DATE MAR 87

GK 202

BASIC TYPE

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS

AIR
BT10 & BT10a(ONE OF EACH) 2 LONG SHANK)
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE NO
ELECTRIC(BR)FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
36
CENTRALLY SUPPORTED-SWIVELLING-FOAM DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS WITH TRANSMITTER
NOT FITTED

ALTERNATIVES

CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-
STEEL FACE PLATE

TRAIN COMMUNICATION
BUFFERS

TRACTION DATA FOR MULTIPLE UNITS

HST- INTRODUCED-CLASS 253 WESTERN REGION 1976-CLASS 254 EASTERN REGION 1978,DECLASSIFIED 1987.

BASIC TYPE

GK 202 0A

VARIANTS

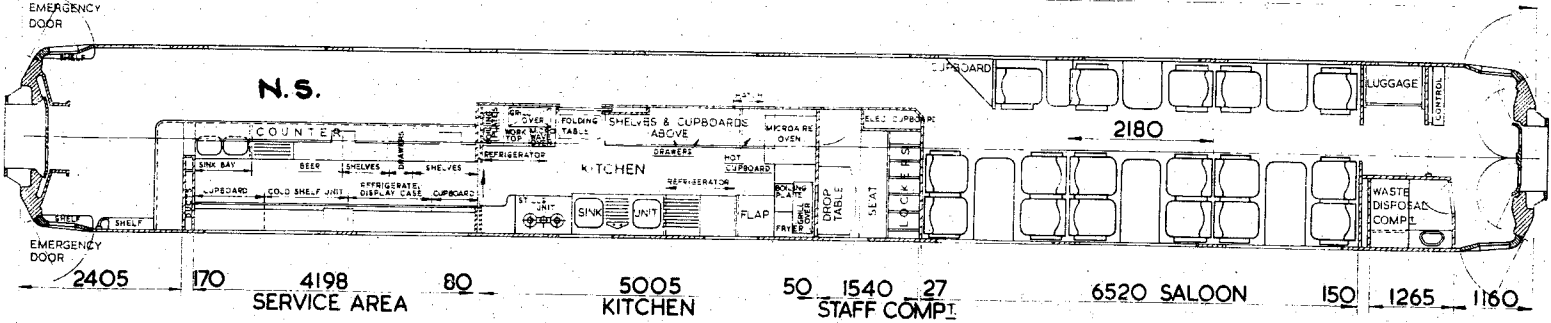
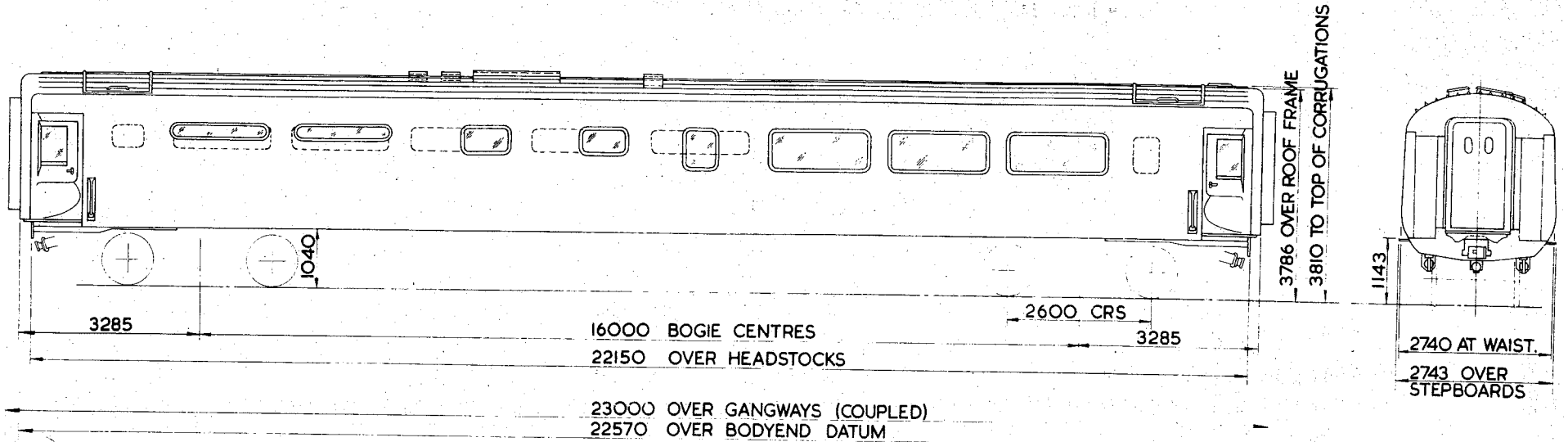
OB GANGWAYS HAVE FLEXIBLE DIAPHRAGM.

TRAILER RESTAURANT UNCLASSIFIED WITH BUFFET-HST

CLASS ---

TRUB

GK 401



- SEATS
 - TOILETS
 - COMPARTMENTS
 - GUARDS COMPARTMENTS
 - VENTILATION
 - CATERING EQUIPMENT
- 17
-
-
-
- FULL AIR CONDITIONING
- ELECTRIC-MICROWAVE/MICROAIRE

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 697

ISSUE 5 DATE MAR 87

GK 401

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS
SEATS

BASIC TYPE

AIR
BT10 & BT10a(ONE OF EACH)
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE No. LONG SHANK)
ELECTRIC(BR) FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
39
CENTRALLY SUPPORTED-SWIVELING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS & TRANSMITTER
NOT FITTED
INTER-CITY 70

ALTERNATIVES

BT10b & BT10c(ONE OF EACH)

39

A.P.T.

TRACTION DATA FOR MULTIPLE UNITS

HST INTRODUCED-CLASS 253 WESTERN REGION 1976-WEST OF ENGLAND 1979-NORTHEAST/SOUTHWEST INTRODUCED 1981- CLASS 254 EASTERN REGION 1978.
DECLASSIFIED 1987.

BASIC TYPE

GK 401 0A

VARIANTS

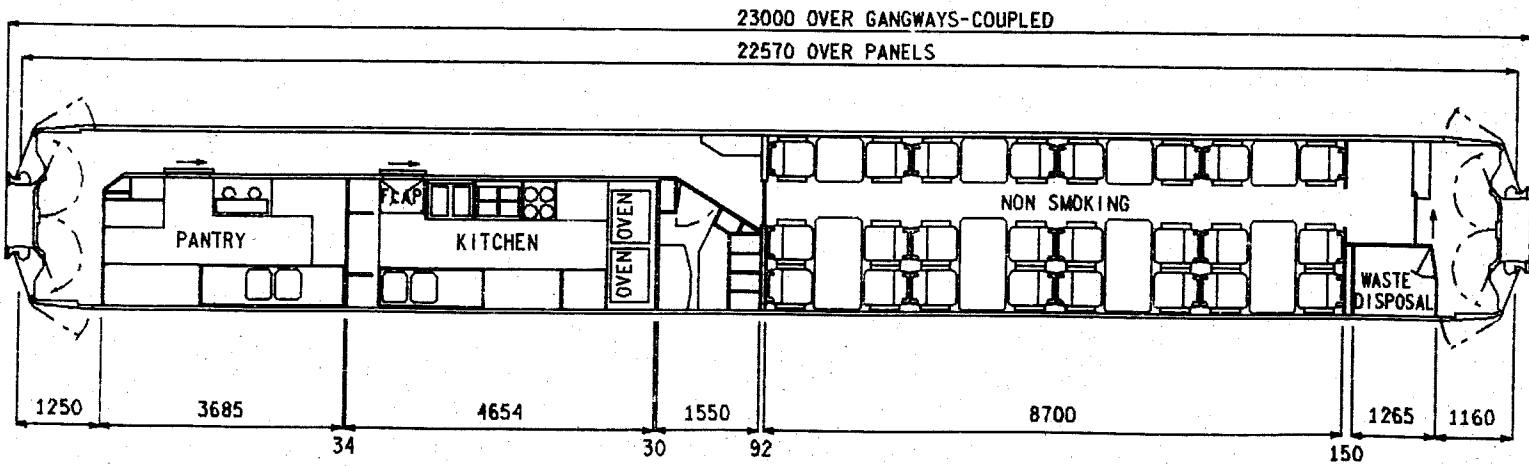
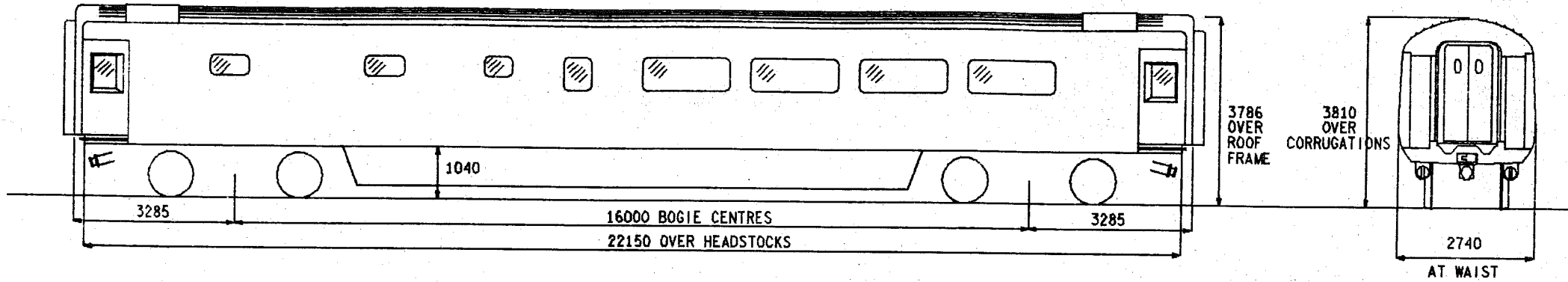
0B BT10b & BT10c BOGIES(ONE OF EACH),TARE 39.
0C BT10b & BT10c BOGIES(ONE OF EACH),TARE 39,A.P.T.SEATS.

TRAILER RESTAURANT FIRST WITH KITCHEN-HST

CLASS ---

TRFK

GL 101



SEATS
TOILETS
COMPARTMENTS
GUARDS COMPARTMENTS
VENTILATION
CATERING EQUIPMENT

24
-
-
-
FULL AIR CONDITIONING
ELECTRIC-MICROWAVE/MICROAIRE

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 696

ISSUE DATE
2 MAR 87

GL 101

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS
SEATS

BASIC TYPE

AIR
BT10 & BT10a(ONE OF EACH)
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE NO.2-LONG SHANK)
ELECTRIC(BR)FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
37
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS
NOT FITTED
IC 80

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

HST- INTRODUCED 1978, DECLASSIFIED 1987.

BASIC TYPE

GL 101 0A

VARIANTS

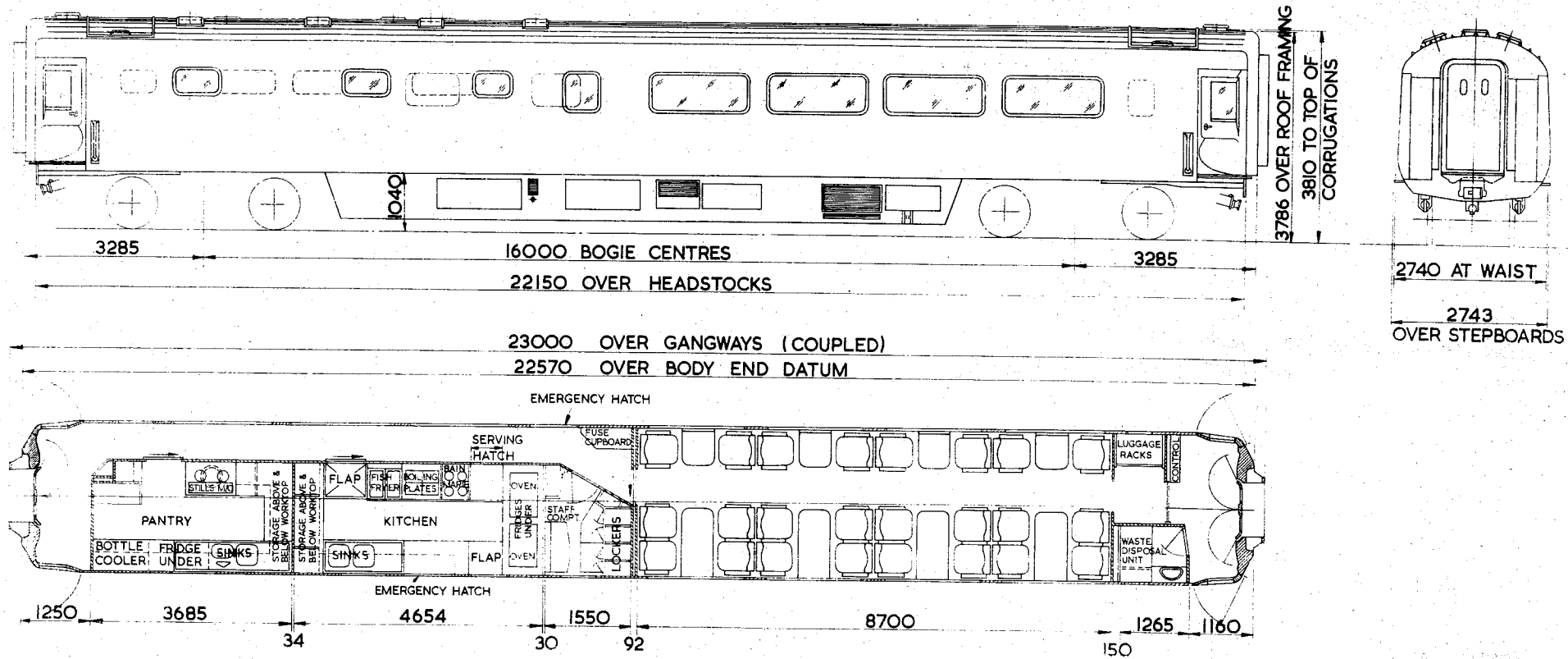
NONE

TRAILER RESTAURANT UNCLASSIFIED WITH KITCHEN-HST

CLASS ---

TRUK

GL 402



- SEATS 24
- TOILETS -
- COMPARTMENTS -
- GUARDS COMPARTMENTS -
- VENTILATION FULL AIR CONDITIONING
- CATERING EQUIPMENT ELECTRIC-MICROWAVE/MICROAIRE

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 696

ISSUE 3 DATE MAR 87

GL 402

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX. SPEED M.P.H.
MIN. RAD. CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

AIR
BT10 & BT10a(ONE OF EACH)
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE No.2 LONG SHANK)
ELECTRIC(BR)FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
37
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

HST- INTRODUCED 1978, DECLASSIFIED 1987.

BASIC TYPE

GL 402 DA

VARIANTS

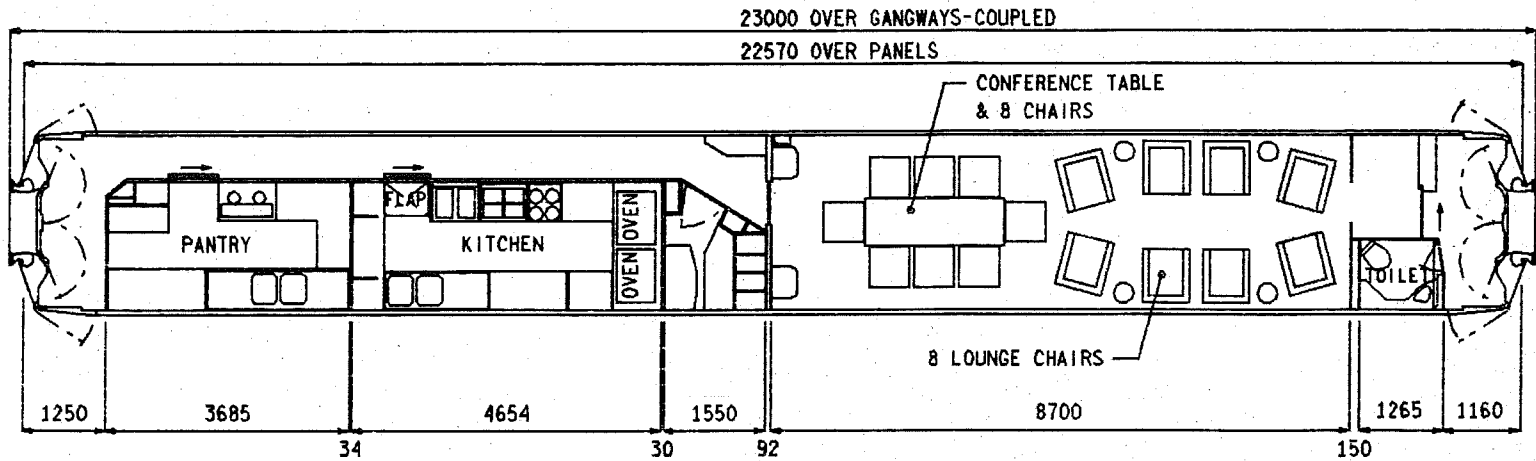
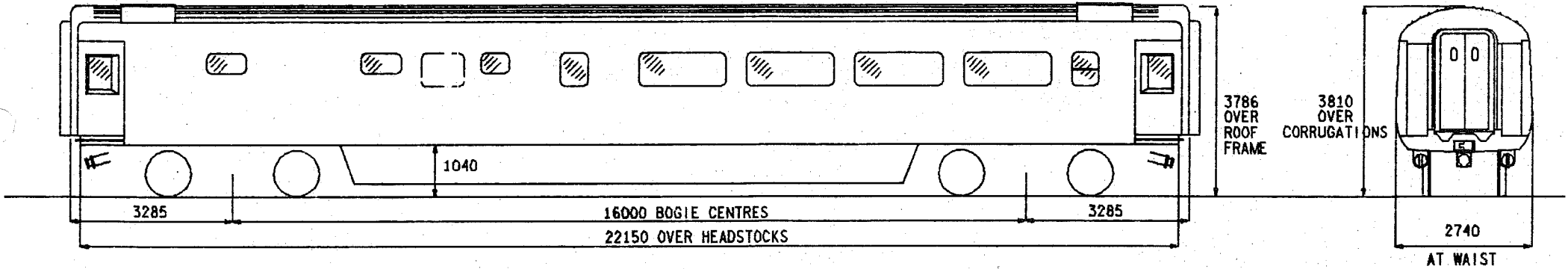
NONE

TRAILER LOUNGE UNCLASSIFIED WITH KITCHEN-HST

CLASS ---

TLUK

GM 401



SEATS
TOILETS
COMPARTMENTS
GUARDS COMPARTMENTS
VENTILATION
CATERING EQUIPMENT

16
1
-
-
FULL AIR CONDITIONING
ELECTRIC-MICROWAVE/MICROAIRE

ISSUE 2
DATE MAR 87

GM 401

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

AIR
BT10 & BT10a(ONE OF EACH)
STEEL
AUTOMATIC SOLID SHANK(ALLIANCE NO.2-LONG SHANK)
ELECTRIC(BR)FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
36.5 (ESTIMATED)
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

HST- INTRODUCED 1978,-MODIFIED TO LOUNGE CAR 1984,DECLASSIFIED 1987.

BASIC TYPE

GM 401 OA

VARIANTS

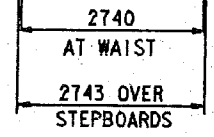
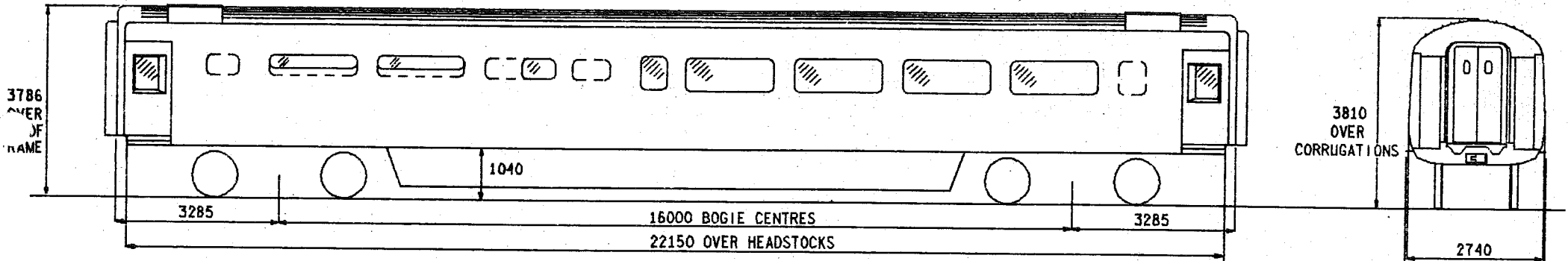
NONE

TRAILER RESTAURANT WITH BUFFET-HST

CLASS ---

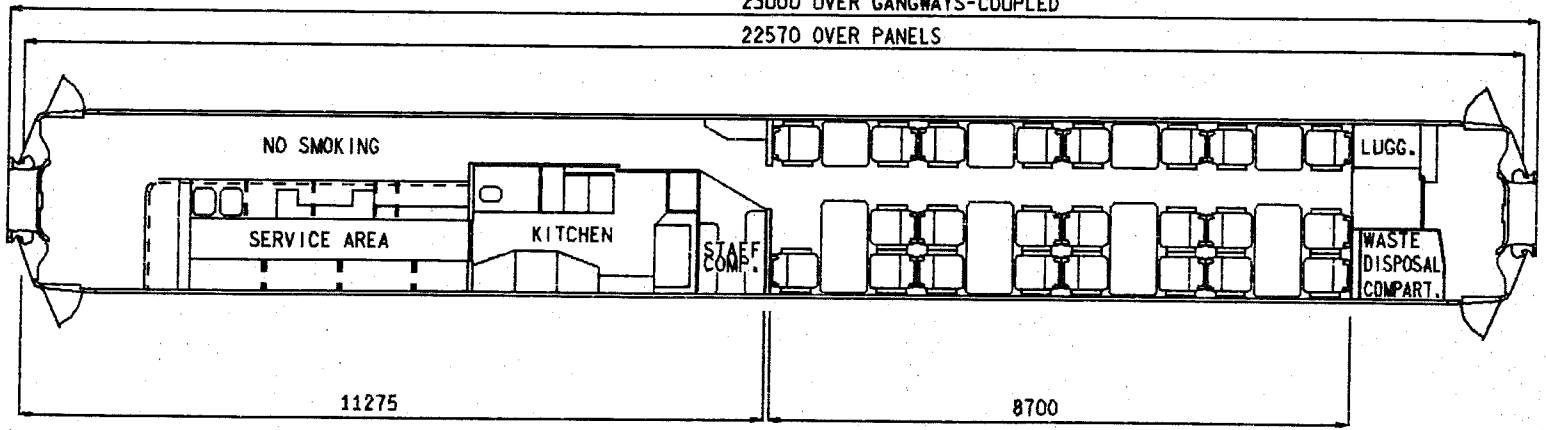
TRB

GN 401



23000 OVER GANGWAYS-COUPLED

22570 OVER PANELS



- SEATS 23
- TOILETS -
- COMPARTMENTS -
- GUARDS COMPARTMENTS -
- VENTILATION FULL AIR CONDITIONING
- CATERING EQUIPMENT ELECTRIC-MICROWAVE/MICROAIRE

ISSUE 2 DATE MAR 87

GN 401

BRAKES
BOGIE/SUSPENSION
BODY CONSTRUCTION
COUPLINGS
TRAIN HEATING
MAX.SPEED M.P.H.
MIN.RAD.CURVE CHAINS
LIGHTING
TARE WEIGHT TONNES
GANGWAYS
TRAIN COMMUNICATION
BUFFERS

BASIC TYPE

AIR
BT10 & BT10a(ONE OF EACH)
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE No 2 LONG SHANK)
ELECTRIC(BR)FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
36 (ESTIMATED)
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS WITH TRANSMITTER
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

HST-

INTRODUCED 1978,-MODIFIED TO TRAILER RESTAURANT BUFFET 1985,DECLASSIFIED 1987.

BASIC TYPE

GN 401 0A

VARIANTS

NONE