
British Railways Board

Mechanical & Electrical Engineering Department

VEHICLE DIAGRAM BOOK NO 230

FOR

Diesel Electric Multiple Unit Trains

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(Including H.S.T.)



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 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			

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Railway Technical Centre
DERBY

Appendix To Vehicle Diagram Book No 230

Diesel Electric Multiple Unit Trains

(Including H.S.T.)

INDEX

OF

DEMU. VEHICLE NUMBERS TO DESIGN CODE

PREF/ OWNER CODE	VEH NO/SFX	DESIGN CODE	PREF/ OWNER CODE	VEH NO/SFX	DESIGN CODE	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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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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PREF/ OWNER VEH DESIGN CODE NO/SFX CODE	PREF/ OWNER VEH DESIGN CODE NO/SFX CODE	PREF/ OWNER VEH DESIGN CODE NO/SFX CODE	PREF/ OWNER VEH DESIGN CODE NO/SFX CODE	PREF/ OWNER VEH DESIGN CODE NO/SFX CODE
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W 41143 GH102 OB	W 42029 GH202 OB	W 42079 GH202 OB	E 42129 GH202 OB	SC 42179 GH202 OB
W 41144 GH102 OB	W 42030 GH202 OB	W 42080 GH202 OB	E 42130 GH202 OB	SC 42180 GH202 OB
W 41145 GH102 OB	W 42031 GH202 OB	W 42081 GH202 OB	E 42131 GH202 OB	SC 42181 GH202 OB
W 41146 GH102 OB	W 42032 GH202 OB	W 42082 GH202 OB	E 42132 GH202 OB	E 42182 GH202 OB
W 41147 GH102 OB	W 42033 GH202 OB	W 42083 GH202 OB	E 42133 GH202 OB	SC 42183 GH202 OB
W 41148 GH102 OB	W 42034 GH202 OB	W 42084 GH202 OB	E 42134 GH202 OB	SC 42184 GH202 OB
W 41149 GH102 OB	W 42035 GH202 OB	W 42085 GH202 OB	E 42135 GH202 OB	SC 42185 GH202 OB
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E 41151 GH102 OB	W 42037 GH202 OB	W 42087 GH202 OB	E 42137 GH202 OB	SC 42187 GH202 OB
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W 42007 GH202 OA	W 42057 GH202 OB	E 42107 GH202 OB	E 42157 GH202 OB	E 42207 GH202 OB
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W 42021 GH202 OA	W 42071 GH202 OB	E 42121 GH202 OB	SC 42171 GH202 OB	E 42221 GH202 OB
W 42022 GH202 OA	W 42072 GH202 OB	E 42122 GH202 OB	SC 42172 GH202 OB	E 42222 GH202 OB
W 42023 GH202 OB	W 42073 GH202 OB	E 42123 GH202 OB	SC 42173 GH202 OB	E 42223 GH202 OB
W 42024 GH202 OB	W 42074 GH202 OB	E 42124 GH202 OB	E 42174 GH202 OB	E 42224 GH202 OB
W 42025 GH202 OB	W 42075 GH202 OB	E 42125 GH202 OB	SC 42175 GH202 OB	E 42225 GH202 OB
W 42026 GH202 OB	W 42076 GH202 OB	E 42126 GH202 OB	SC 42176 GH202 OB	E 42226 GH202 OB
W 42027 GH202 OB	W 42077 GH202 OB	E 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
E	42228	GH202 OB	W	42278	GH202 OC	W	43024	GB502 0A	E	43074	GB502 0A	W	43124	GB502 0A
E	42229	GH202 OB	W	42279	GH202 OC	W	43025	GB502 0A	E	43075	GB502 0A	W	43125	GB502 0A
E	42230	GH202 OB	W	42280	GH202 OC	W	43026	GB502 0A	E	43076	GB502 0A	W	43126	GB502 0A
E	42231	GH202 OB	W	42281	GH202 OC	W	43027	GB502 0A	E	43077	GB502 0A	W	43127	GB502 0A
E	42232	GH202 OB	W	42282	GH202 OC	W	43028	GB502 0A	E	43078	GB502 0A	W	43128	GB502 0A
E	42233	GH202 OB	W	42283	GH202 OC	W	43029	GB502 0A	E	43079	GB502 0A	W	43129	GB502 0A
E	42234	GH202 OB	W	42284	GH202 OC	W	43030	GB502 0A	E	43080	GB502 0A	W	43130	GB502 0A
E	42235	GH202 OB	W	42285	GH202 OC	W	43031	GB502 0A	E	43081	GB502 0A	W	43131	GB502 0A
E	42236	GH202 OB	W	42286	GH202 OC	W	43032	GB502 0A	E	43082	GB502 0A	W	43132	GB502 0A
E	42237	GH202 OB	W	42287	GH202 OC	W	43033	GB502 0A	E	43083	GB502 0A	W	43133	GB502 0A
E	42238	GH202 OB	W	42288	GH202 OC	W	43034	GB502 0A	E	43084	GB502 0A	W	43134	GB502 0A
E	42239	GH202 OB	W	42289	GH202 OC	W	43035	GB502 0A	E	43085	GB502 0A	W	43135	GB502 0A
E	42240	GH202 OB	W	42290	GH202 OC	W	43036	GB502 0A	SC	43086	GB502 0A	W	43136	GB502 0A
E	42241	GH202 OB	W	42291	GH202 OC	W	43037	GB502 0A	SC	43087	GB502 0A	W	43137	GB502 0A
E	42242	GH202 OB	W	42292	GH202 OC	W	43038	GB502 0A	SC	43088	GB502 0A	W	43138	GB502 0A
E	42243	GH202 OB	W	42293	GH202 OC	W	43039	GB502 0A	SC	43089	GB502 0A	W	43139	GB502 0A
E	42244	GH202 OB	W	42294	GH202 OC	W	43040	GB502 0A	SC	43090	GB502 0A	W	43140	GB502 0A
E	42245	GH202 OB	W	42295	GH202 OC	W	43041	GB502 0A	SC	43091	GB502 0A	W	43141	GB502 0A
E	42246	GH202 OB	W	42296	GH202 OC	W	43042	GB502 0A	SC	43092	GB502 0A	W	43142	GB502 0A
E	42247	GH202 OB	W	42297	GH202 OC	W	43043	GB502 0A	SC	43093	GB502 0A	W	43143	GB502 0A
E	42248	GH202 OB	W	42298	GH202 OC	W	43044	GB502 0A	SC	43094	GB502 0A	W	43144	GB502 0A
E	42249	GH202 OB	W	42299	GH202 OC	W	43045	GB502 0A	SC	43095	GB502 0A	W	43145	GB502 0A
E	42250	GH202 OB	W	42300	GH202 OC	W	43046	GB502 0A	E	43096	GB502 0A	W	43146	GB502 0A
W	42251	GH202 OC	W	42301	GH202 OC	W	43047	GB502 0A	E	43097	GB502 0A	W	43147	GB502 0A
W	42252	GH202 OC	W	42302	GH202 OC	W	43048	GB502 0A	E	43098	GB502 0A	W	43148	GB502 0A
W	42253	GH202 OC	W	42303	GH202 OC	W	43049	GB502 0A	E	43099	GB502 0A	W	43149	GB502 0A
W	42254	GH202 OC	W	42304	GH202 OC	W	43050	GB502 0A	E	43100	GB502 0A	W	43150	GB502 0A
W	42255	GH202 OC	W	42305	GH202 OC	W	43051	GB502 0A	E	43101	GB502 0A	W	43151	GB502 0A
W	42256	GH202 OC	W	43002	GB502 0A	W	43052	GB502 0A	E	43102	GB502 0A	W	43152	GB502 0A
W	42257	GH202 OC	W	43003	GB502 0A	W	43053	GB502 0A	E	43103	GB502 0A	E	43153	GB503 0A
W	42258	GH202 OC	W	43004	GB502 0A	W	43054	GB502 0A	E	43104	GB502 0A	E	43154	GB503 0A
W	42259	GH202 OC	W	43005	GB502 0A	W	43055	GB502 0A	E	43105	GB502 0A	E	43155	GB503 0A
W	42260	GH202 OC	W	43006	GB502 0A	W	43056	GB502 0A	E	43106	GB502 0A	E	43156	GB503 0A
W	42261	GH202 OC	W	43007	GB502 0A	E	43057	GB502 0A	E	43107	GB502 0A	W	43157	GB503 0A
W	42262	GH202 OC	W	43008	GB502 0A	E	43058	GB502 0A	E	43108	GB502 0A	W	43158	GB503 0A
W	42263	GH202 OC	W	43009	GB502 0A	E	43059	GB502 0A	E	43109	GB502 0A	W	43159	GB503 0A
W	42264	GH202 OC	W	43010	GB502 0A	E	43060	GB502 0A	E	43110	GB502 0A	W	43160	GB503 0A
W	42265	GH202 OC	W	43011	GB502 0A	E	43061	GB502 0A	E	43111	GB502 0A	W	43161	GB503 0A
W	42266	GH202 OC	W	43012	GB502 0A	E	43062	GB502 0A	E	43112	GB502 0A	W	43162	GB503 0A
W	42267	GH202 OC	W	43013	GB502 0A	E	43063	GB502 0A	E	43113	GB502 0A	W	43163	GB503 0A
W	42268	GH202 OC	W	43014	GB502 0A	E	43064	GB502 0A	E	43114	GB502 0A	W	43164	GB503 0A
W	42269	GH202 OC	W	43015	GB502 0A	E	43065	GB502 0A	E	43115	GB502 0A	W	43165	GB503 0A
W	42270	GH202 OC	W	43016	GB502 0A	E	43066	GB502 0A	E	43116	GB502 0A	W	43166	GB503 0A
W	42271	GH202 OC	W	43017	GB502 0A	E	43067	GB502 0A	E	43117	GB502 0A	W	43167	GB503 0A
W	42272	GH202 OC	W	43018	GB502 0A	E	43068	GB502 0A	E	43118	GB502 0A	W	43168	GB503 0A
W	42273	GH202 OC	W	43019	GB502 0A	E	43069	GB502 0A	E	43119	GB502 0A	W	43169	GB503 0A
W	42274	GH202 OC	W	43020	GB502 0A	E	43070	GB502 0A	W	43120	GB502 0A	W	43170	GB503 0A
W	42275	GH202 OC	W	43021	GB502 0A	E	43071	GB502 0A	W	43121	GB502 0A	W	43171	GB503 0A
W	42276	GH202 OC	W	43022	GB502 0A	E	43072	GB502 0A	E	43122	GB502 0A	W	43172	GB503 0A
W	42277	GH202 OC	W	43023	GB502 0A	E	43073	GB502 0A	E	43123	GB502 0A	W	43173	GB503 0A

PREF/ OWNER	VEH NO/SFX	DESIGN CODE	PREF/ OWNER	VEH NO/SFX	DESIGN CODE	PREF/ OWNER	VEH NO/SFX	DESIGN CODE
W	43174	GB503 0A	W	44033	GJ201 0A	W	44083	GJ201 0A
W	43175	GB503 0A	W	44034	GJ201 0A	W	44084	GJ201 0A
W	43176	GB503 0A	W	44035	GJ201 0A	W	44085	GJ201 0A
W	43177	GB503 0A	W	44036	GJ201 0A	W	44086	GJ201 0A
W	43178	GB503 0A	W	44037	GJ201 0A	W	44087	GJ201 0A
W	43179	GB503 0A	W	44038	GJ201 0A	W	44088	GJ201 0A
W	43180	GB503 0A	W	44039	GJ201 0A	W	44089	GJ201 0A
W	43181	GB503 0A	W	44040	GJ201 0A	W	44090	GJ201 0A
W	43182	GB503 0A	E	44041	GJ201 0A			
W	43183	GB503 0A	E	44042	GJ201 0A			
W	43184	GB503 0A	E	44043	GJ201 0A			
W	43185	GB503 0A	E	44044	GJ201 0A			
W	43186	GB503 0A	E	44045	GJ201 0A			
W	43187	GB503 0A	E	44046	GJ201 0A			
W	43188	GB503 0A	E	44047	GJ201 0A			
W	43189	GB503 0A	E	44048	GJ201 0A			
W	43190	GB503 0A	E	44049	GJ201 0A			
W	44000	GJ201 0A	E	44050	GJ201 0A			
W	44001	GJ201 0A	E	44051	GJ201 0A			
W	44002	GJ201 0A	E	44052	GJ201 0A			
W	44003	GJ201 0A	E	44053	GJ201 0A			
W	44004	GJ201 0A	E	44054	GJ201 0A			
W	44005	GJ201 0A	E	44055	GJ201 0A			
W	44006	GJ201 0A	E	44056	GJ201 0A			
W	44007	GJ201 0A	E	44057	GJ201 0A			
W	44008	GJ201 0A	E	44058	GJ201 0A			
W	44009	GJ201 0A	E	44059	GJ201 0A			
W	44010	GJ201 0A	W	44060	GJ201 0A			
W	44011	GJ201 0A	W	44061	GJ201 0A			
W	44012	GJ201 0A	W	44062	GJ201 0A			
W	44013	GJ201 0A	W	44063	GJ201 0A			
W	44014	GJ201 0A	W	44064	GJ201 0A			
W	44015	GJ201 0A	W	44065	GJ201 0A			
W	44016	GJ201 0A	W	44066	GJ201 0A			
W	44017	GJ201 0A	W	44067	GJ201 0A			
W	44018	GJ201 0A	W	44068	GJ201 0A			
W	44019	GJ201 0A	W	44069	GJ201 0A			
W	44020	GJ201 0A	W	44070	GJ201 0A			
W	44021	GJ201 0A	W	44071	GJ201 0A			
W	44022	GJ201 0A	W	44072	GJ201 0A			
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W	44024	GJ201 0A	W	44074	GJ201 0A			
W	44025	GJ201 0A	W	44075	GJ201 0A			
W	44026	GJ201 0A	W	44076	GJ201 0A			
W	44027	GJ201 0A	W	44077	GJ201 0A			
W	44028	GJ201 0A	W	44078	GJ201 0A			
W	44029	GJ201 0A	W	44079	GJ201 0A			
W	44030	GJ201 0A	W	44080	GJ201 0A			
W	44031	GJ201 0A	W	44081	GJ201 0A			
W	44032	GJ201 0A	W	44082	GJ201 0A			

VEHICLE DIAGRAM BOOK NO 230

FOR

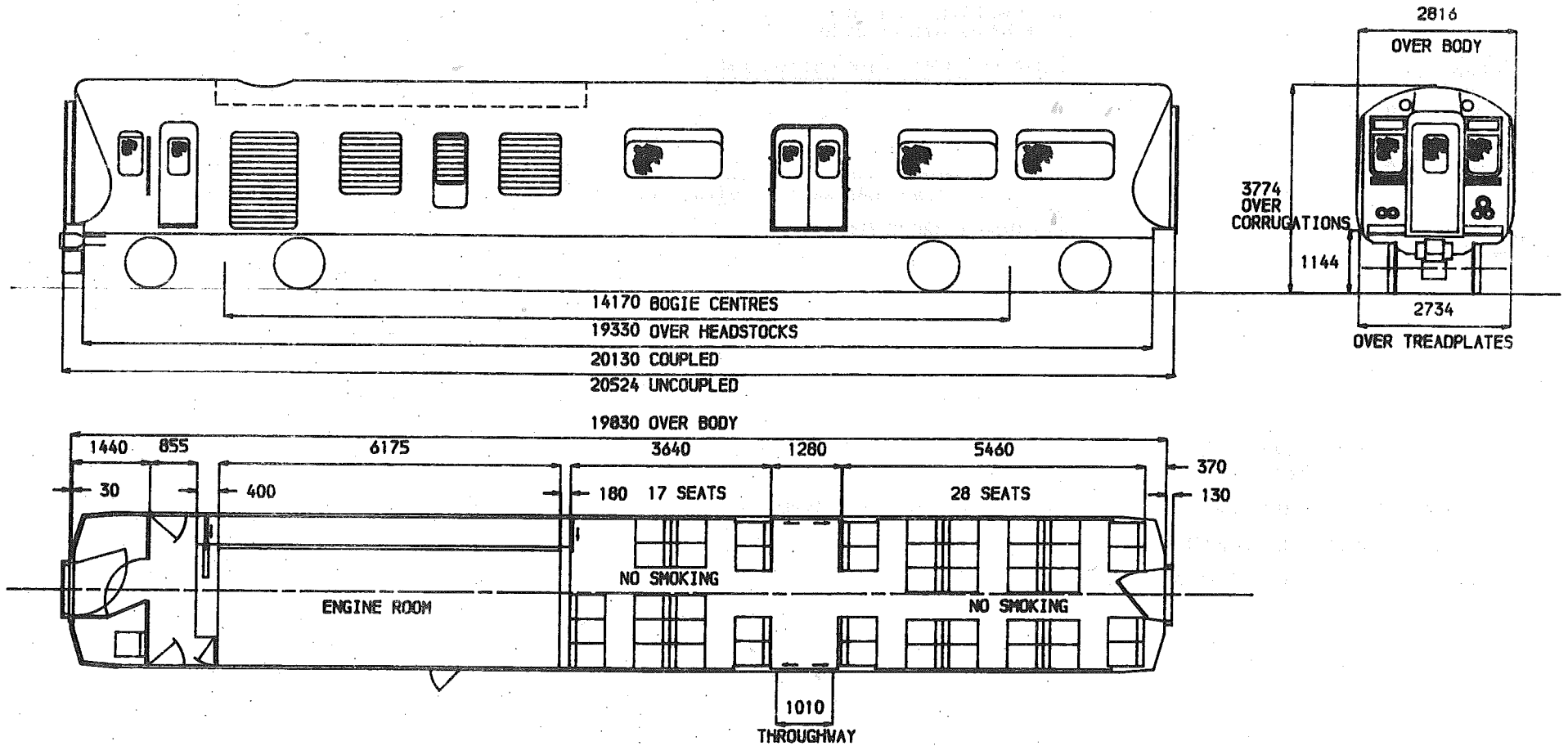
Diesel Electric Multiple Unit Trains

(Including H.S.T.)

SUMMARY OF CONTENTS

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

DA	Driving Motor Second	GB	Driving Motor Brake - HST
DB	Driving Motor Brake Second	GH	Trailer First - HST
DE	Driving Trailer Second	GH	Trailer Second - HST
DE	Driving Trailer Composite	GJ	Trailer Guards Second - HST
DH	Trailer Second	GK	Trailer Restaurant Second with Buffet - HST
DH	Trailer Composite	GK	Trailer Restaurant Unclassed with Buffet - HST
		GL	Trailer Restaurant Unclassed with Kitchen - HST



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

ISSUE 1
 DATE SEP' 80

DA 201

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

A.V.S.
TRAIN COMMUNICATION
BUFFERS

ELECTRO-PNEUMATIC (WESTCODE)
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

TRACTION DATA FOR MULTIPLE UNITS

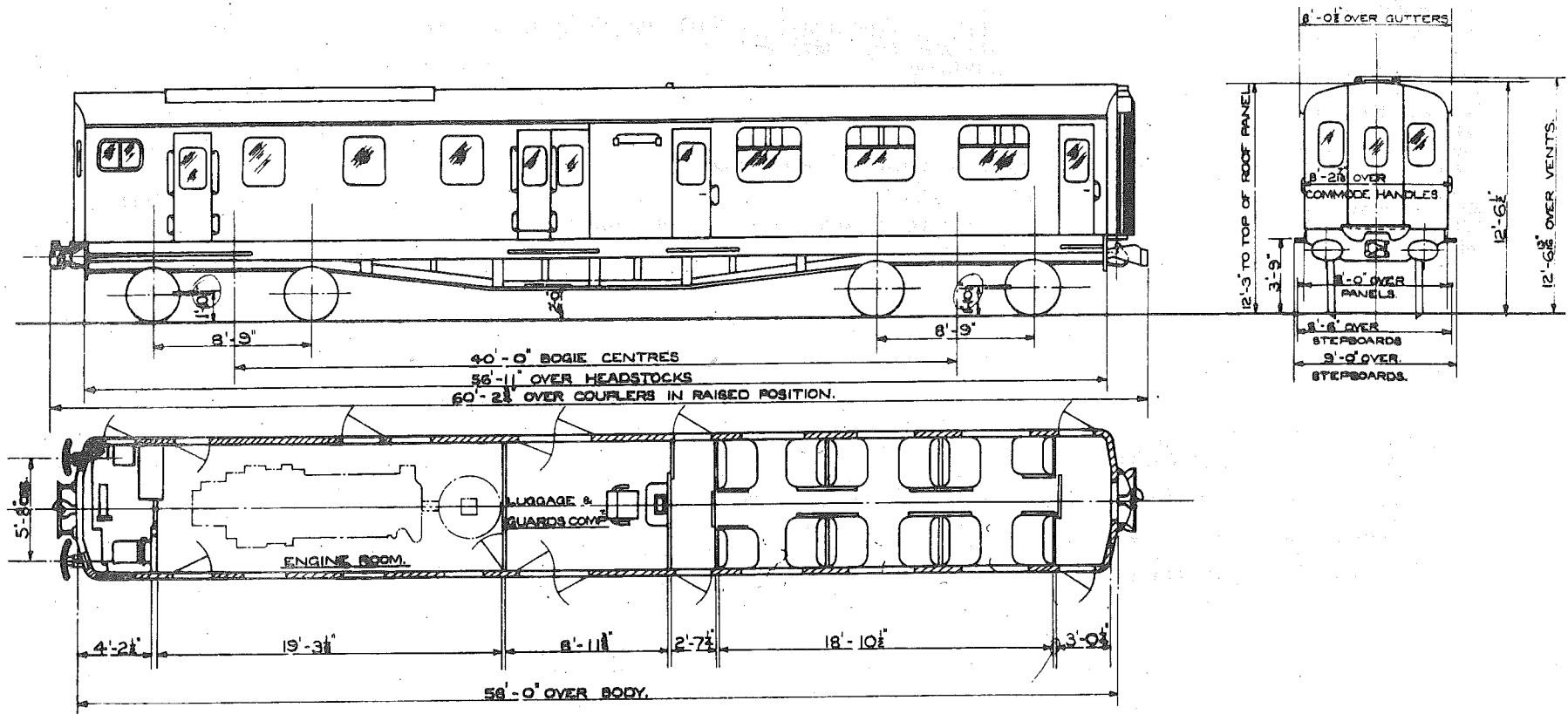
DEMU-BUILDER	BR DERBY-PROTOTYPE
ENGINE	MTU PT.NO.12V396TC12-12 CYL-V CONFIGURATION-1100 HP
TRACTION MOTORS	4 X 250 HP (187 kW) GEC
ALTERNATOR	GEC TYPE G563AZ-OUTPUT 670 AMPS 1225 VOLTS

BASIC TYPE

DA 201 0A

VARIANTS

NONE



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

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

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

TRACTION DATA FOR MULTIPLE UNITS

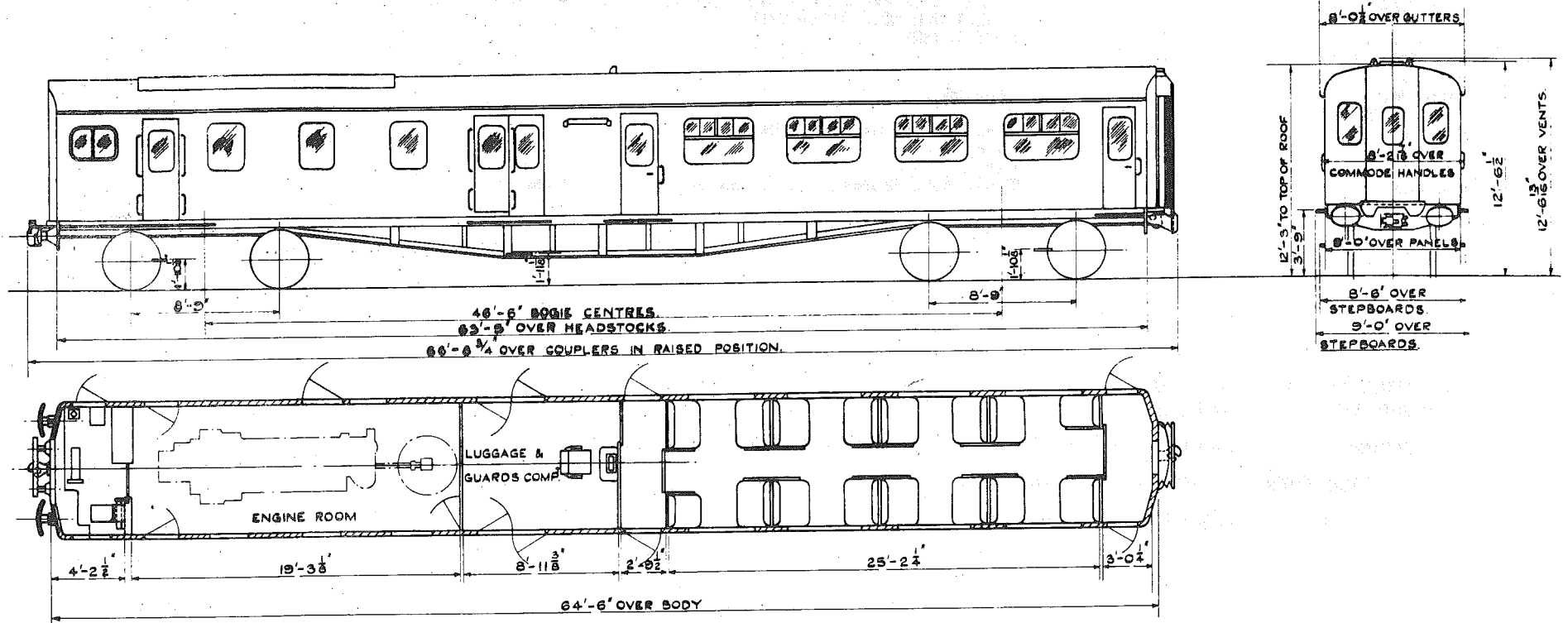
DEMU-BUILDER	BR EASTLEIGH
ENGINE	ENGLISH ELECTRIC 4 CYL. TYPE 4SRKT MK 11 OF 500 OR 600 HP AT 850 RPM-SEE VARIANTS
TRACTION MOTORS	2-NOSE SUSPENDED-AXLE HUNG
GENERATOR	ENGLISH ELECTRIC TYPE 824

BASIC TYPE

DB 201 0A

VARIANTS

OB 600 HP ENGINE.
OC DRIVER/GUARD COMMUNICATION.



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

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 651

ISSUE 3 DATE DEC '81

DB 202

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
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
TUNGSTEN
56
EXPRESS ELECTRIC-INNER END ONLY
NOT FITTED
DRIVER/GUARD
RETRACTABLE SPINDLE (559 X 356 OVAL) OUTER END ONLY

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

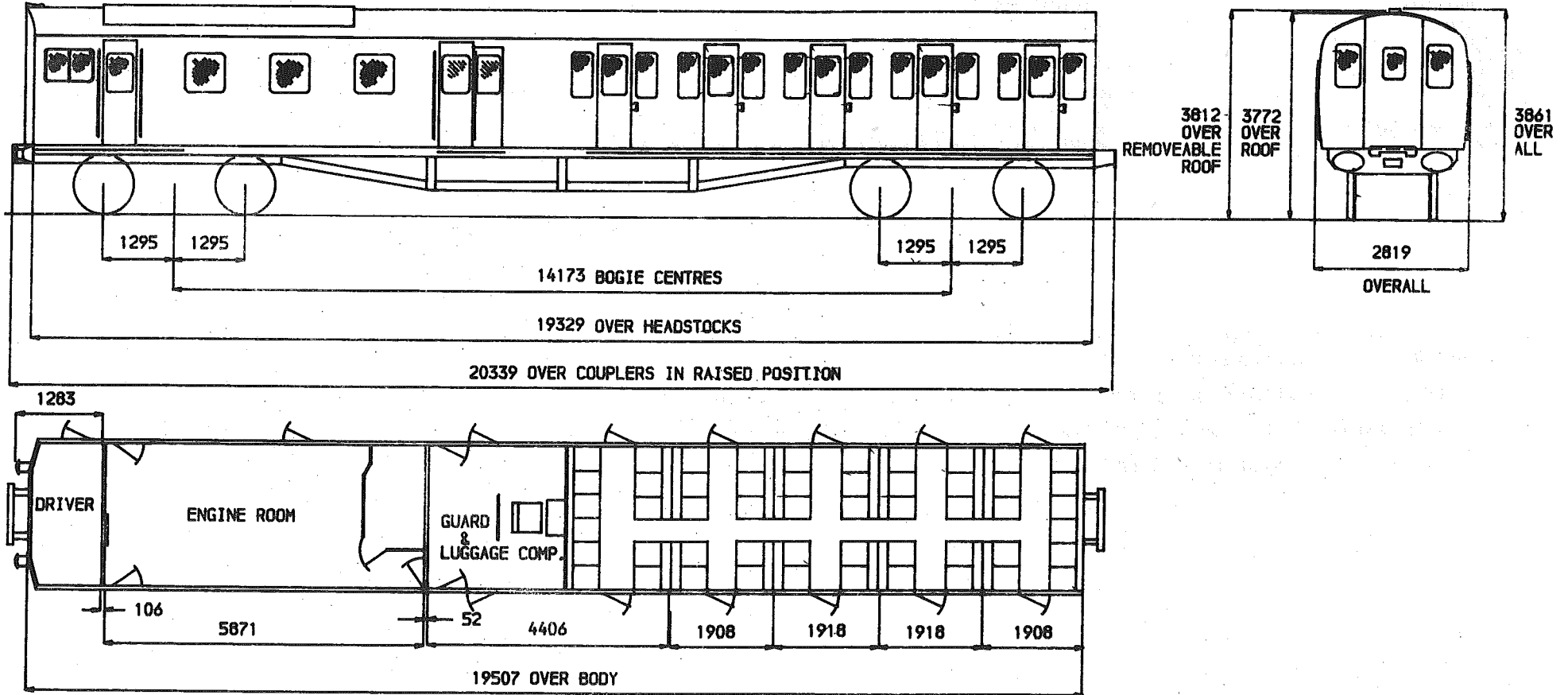
NONE

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

ALTERNATIVES

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

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

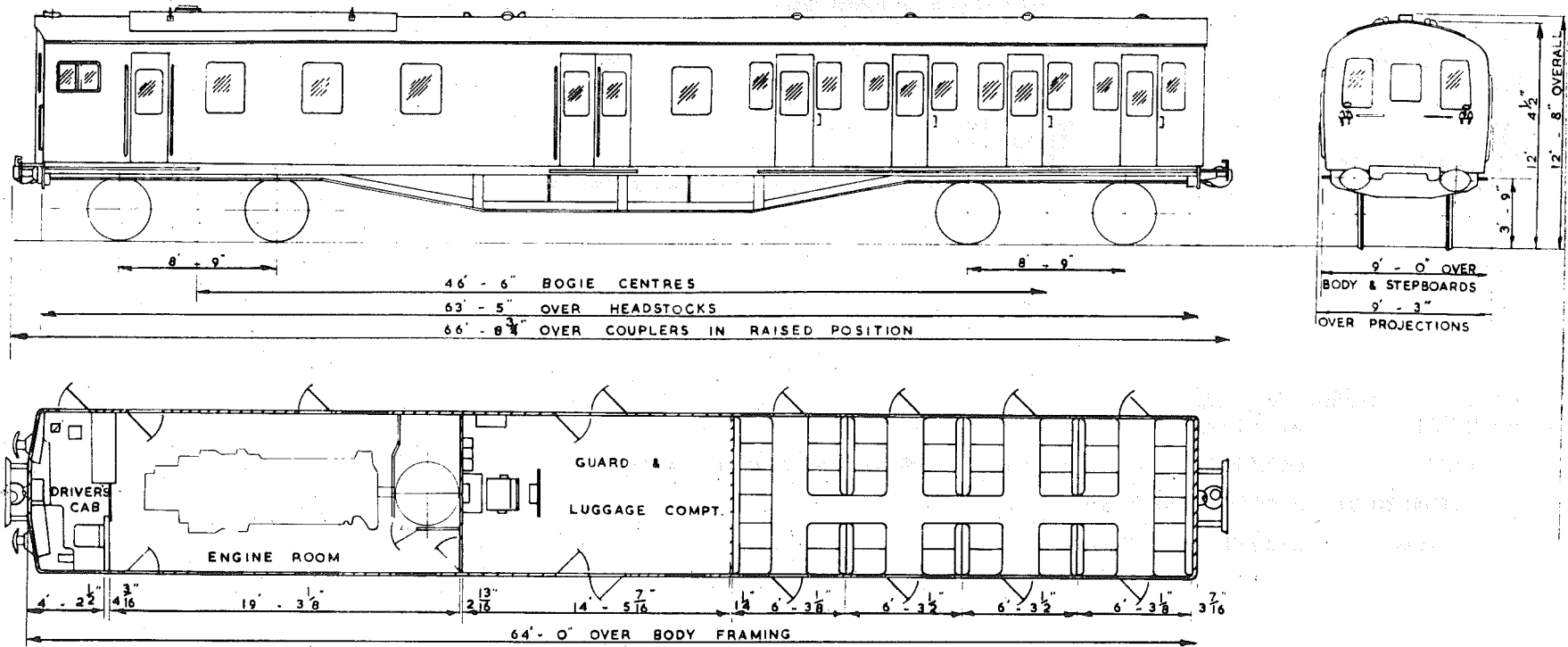
GENERATOR ENGLISH ELECTRIC TYPE 824

BASIC TYPE

DB 203 0A

VARIANTS

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



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

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 656

ISSUE 1 DATE SEP' 80

DB 204

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
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
32.5
NOT FITTED
FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY

S.R. MK 3A POWERED & UNPOWERED (ONE OF EACH)

32

TRACTION DATA FOR MULTIPLE UNITS

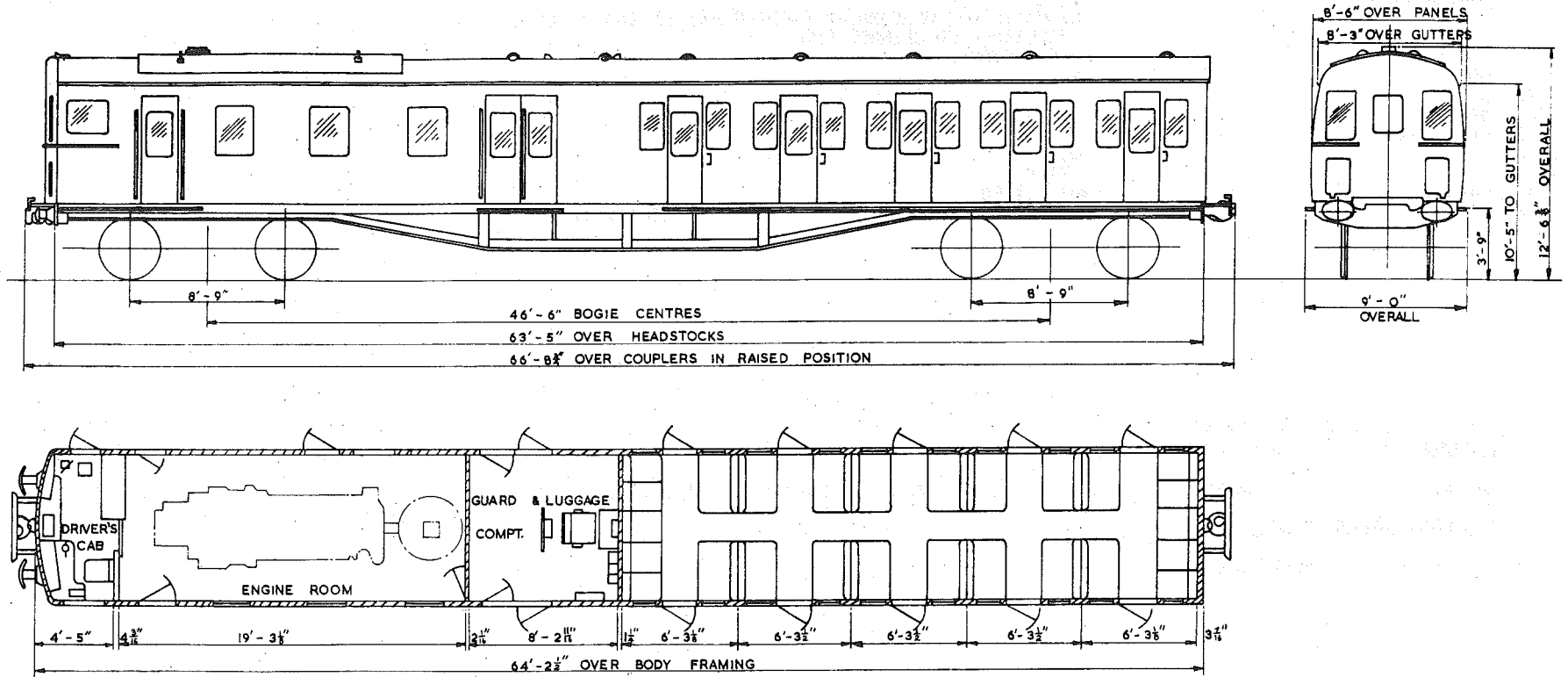
DEMU-BUILDER BR EASTLEIGH
ENGINE ENGLISH ELECTRIC 4 CYL. TYPE 4SRKT MK 11 OF 600 HP AT 850 RPM
TRACTION MOTORS 2-NOSE SUSPENDED-AXLE HUNG
GENERATOR ENGLISH ELECTRIC TYPE 824

BASIC TYPE

DB 204 0A

VARIANTS

0B S.R. MK 3A POWERED & UNPOWERED BOGIES (ONE OF EACH), TARE 32.



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

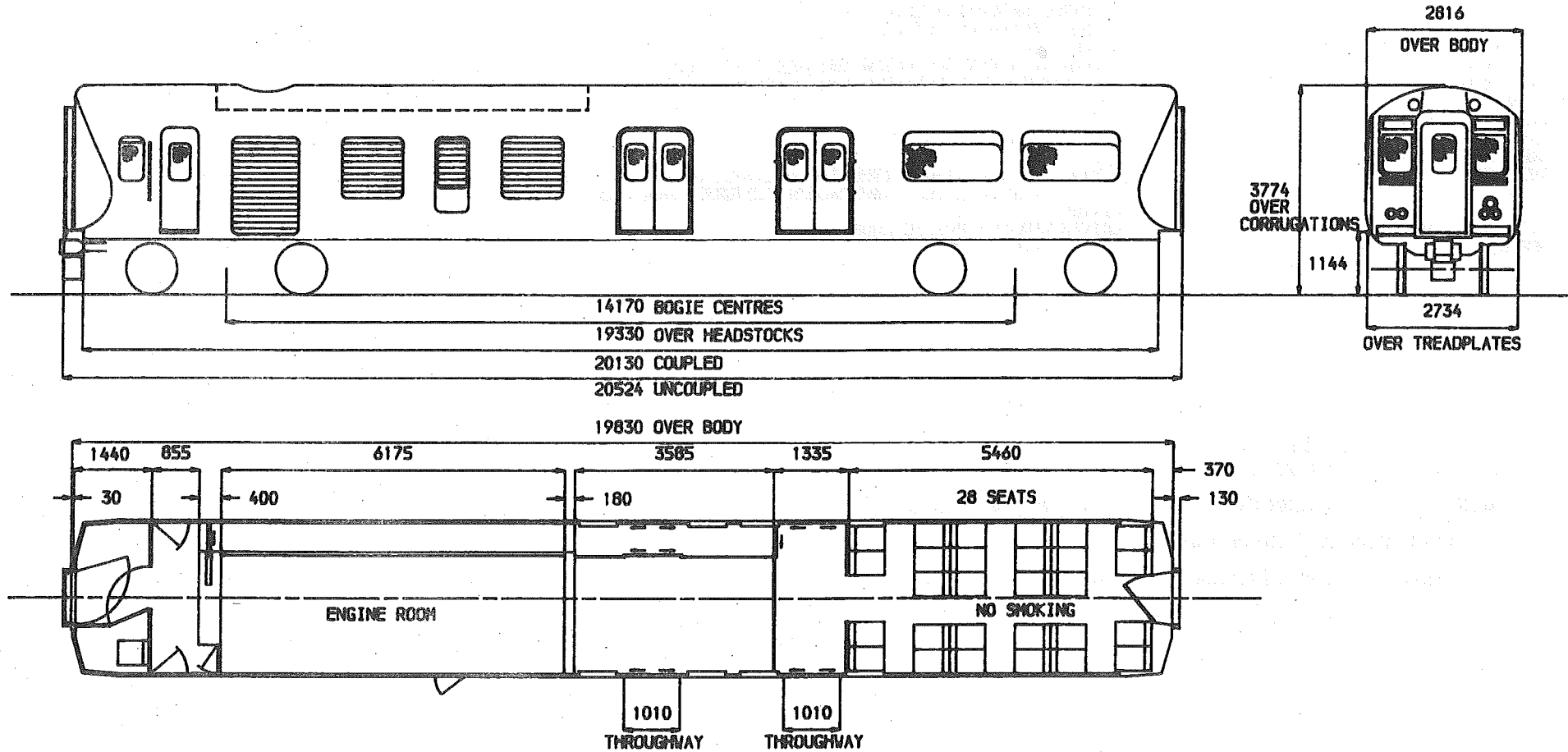
DEMU-BUILDER	BR EASTLEIGH
ENGINE	ENGLISH ELECTRIC 4 CYL. TYPE 4SRKT MK 11 OF 600 HP AT 850 RPM
TRACTION MOTORS	2-NOSE SUSPENDED-AXLE HUNG
GENERATOR	ENGLISH ELECTRIC TYPE 824

BASIC TYPE

DB 205 0A

VARIANTS

NONE



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

ISSUE 1 DATE SEP' 80

DB 206

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

A. V. S.
TRAIN COMMUNICATION
BUFFERS

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
FLUORESCENT & TUNGSTEN
63.5
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
OUTER END-FLEXIBLE DIAPHRAGM/RIGID (GRP) INNER END
FITTED
DRIVER/GUARD & PUBLIC ADDRESS
NOT FITTED

TRACTION DATA FOR MULTIPLE UNITS

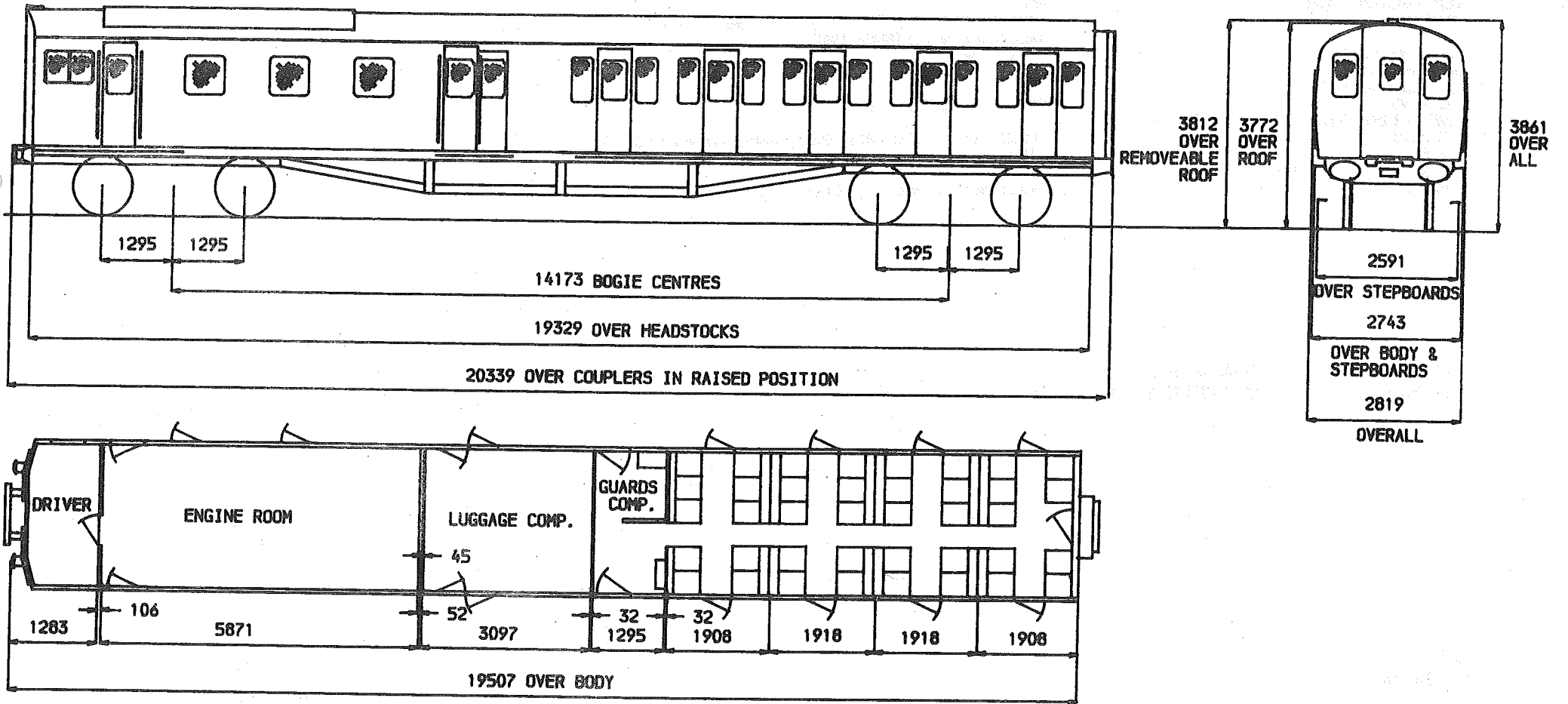
DEMU-BUILDER	BR DERBY-PROTOTYPE
ENGINE	PAXMAN PT.NO.6RP200-6 CYL.IN LINE-1100 HP
TRACTION MOTORS	4 X 250 HP BRUSH
ALTERNATOR	BRUSH BA1002A-OUTPUT 670 AMPS 1240 VOLTS

BASIC TYPE

DB 206 0A

VARIANTS

NONE



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

ISSUE 1
DATE SEP' 80

DB 207

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
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

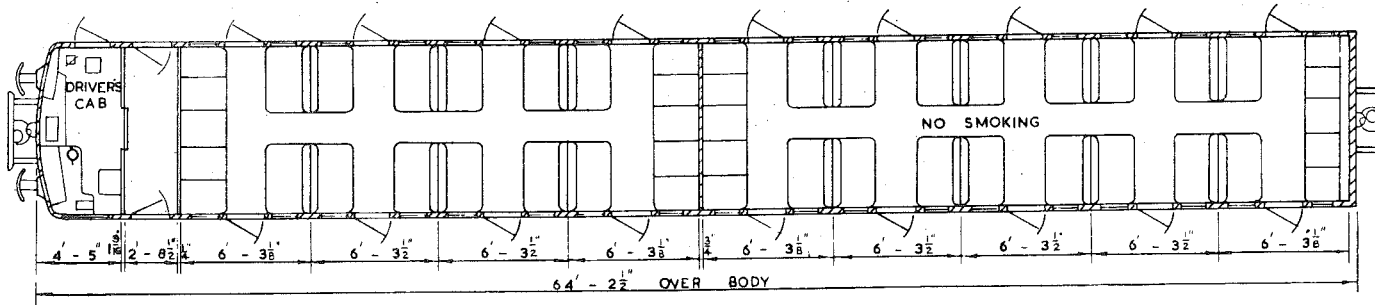
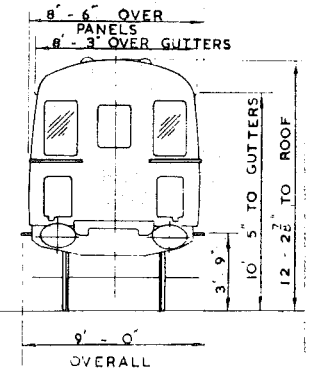
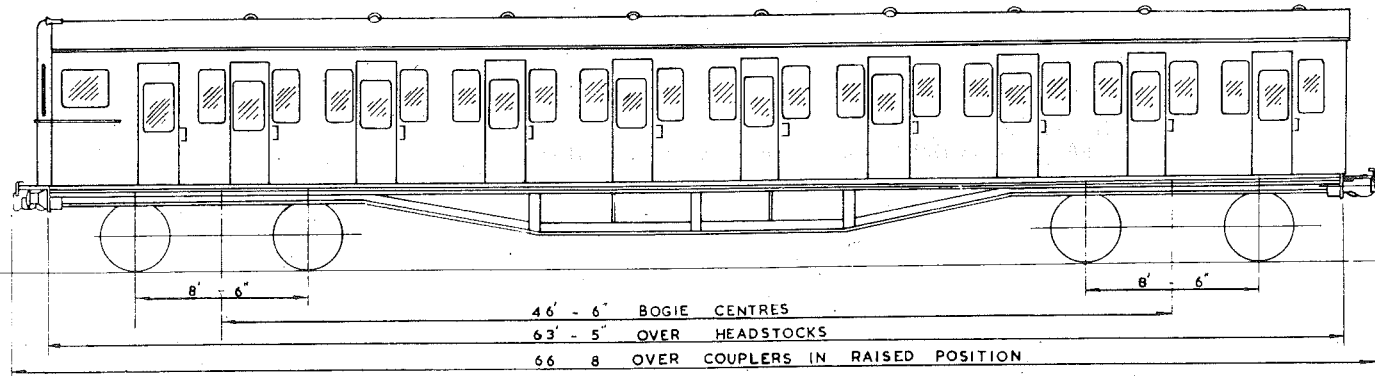
DEMU-BUILDER BR EASTLIEGH - REFURBISHED 1980 (PROTOTYPE)

BASIC TYPE

DB 207 0A

VARIANTS

NONE



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

ORIGINAL DIAGRAMS FOR REFERENCE,-
BR 681

ISSUE 2 DATE MAY '81

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.V.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

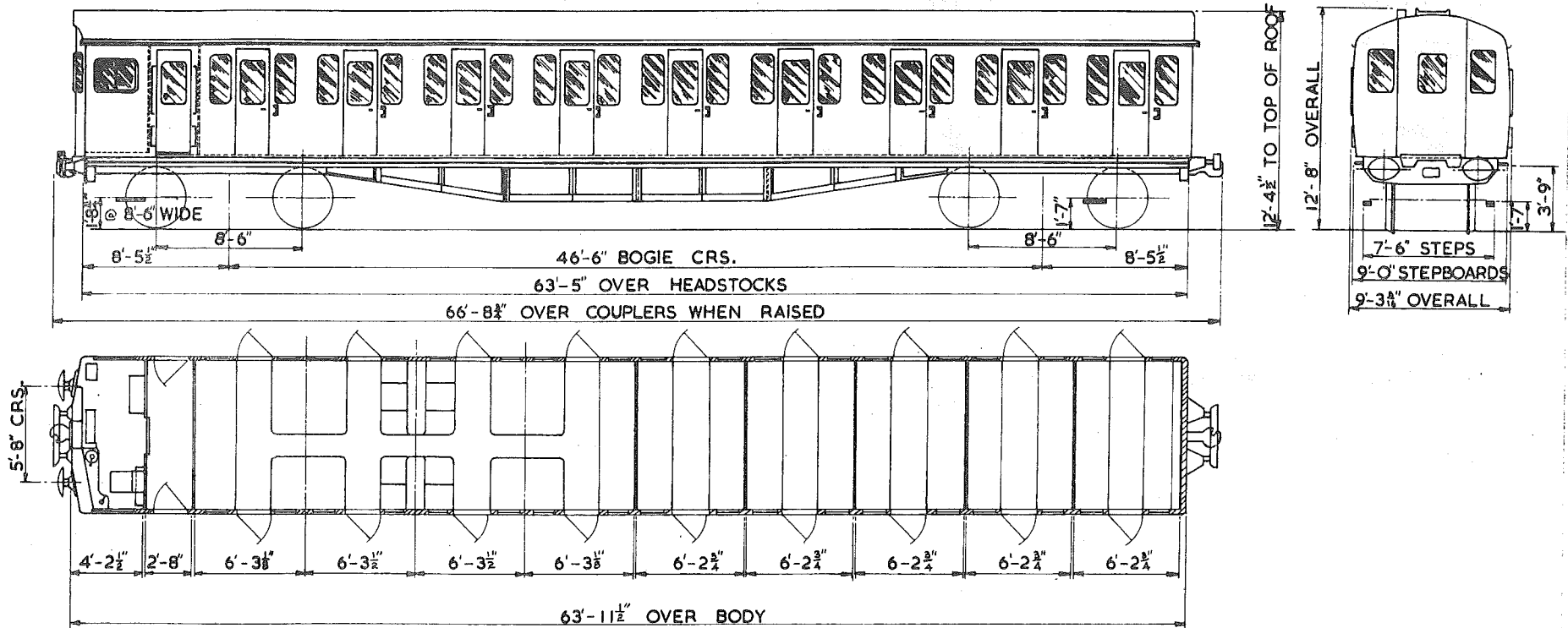
NONE

DRIVING TRAILER SECOND (CLASS 204 VEHICLES CURRENTLY USED AS TRAILER SECONDS)

CLASS 204
206

DTS

DE 202



- SEATS 102
- TOILETS -
- COMPARTMENTS 5 PLUS SALOON
- GUARDS COMPARTMENTS -
- VENTILATION -
- CATERING EQUIPMENT -

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 692

ISSUE 3 DATE JULY '81

DE 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 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

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

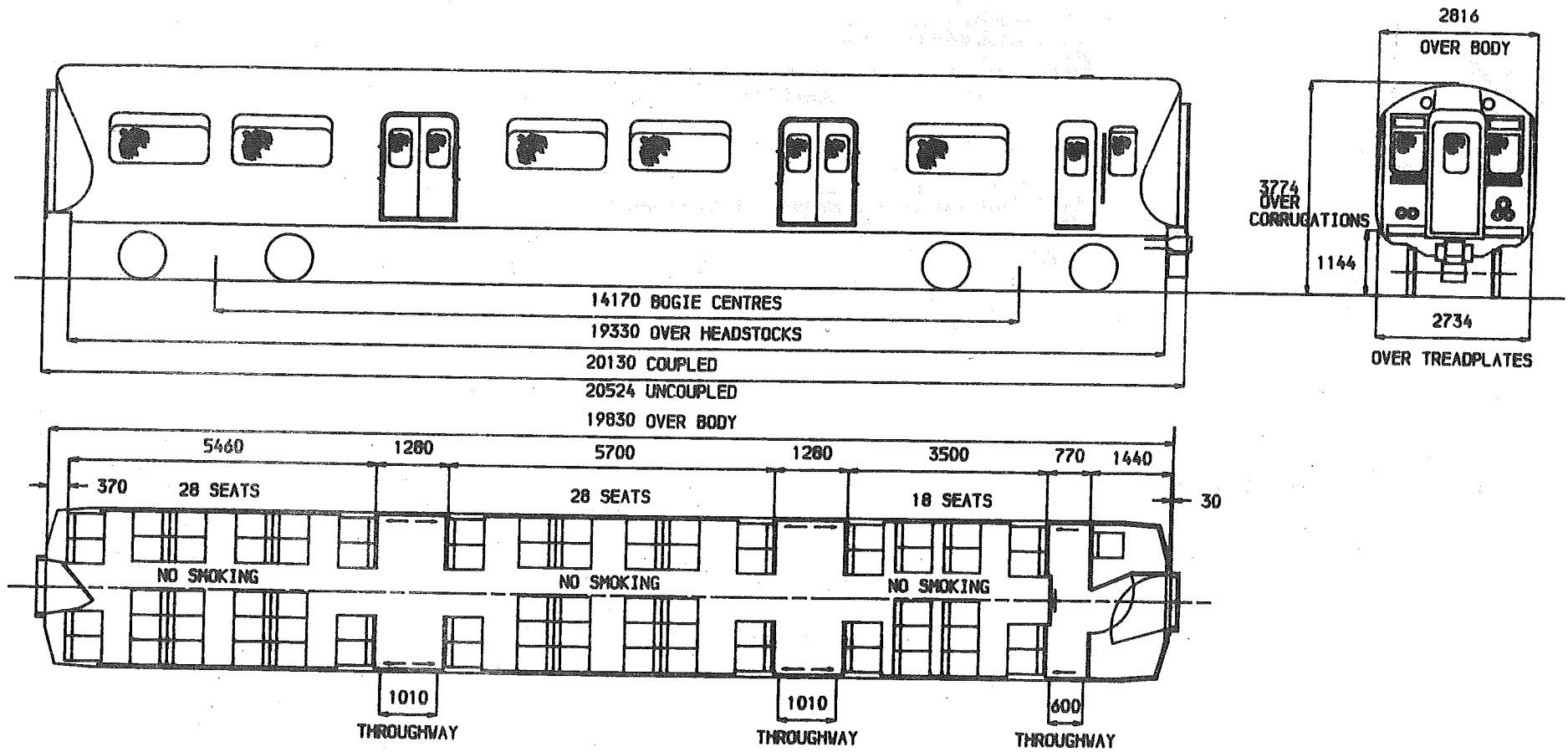
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DE 202 0A

VARIANTS

NONE



SEATS
 TOILETS
 COMPARTMENTS
 GUARDS COMPARTMENTS
 VENTILATION
 CATERING EQUIPMENT

74
 -
 -
 CAB WHEN TRAILING
 PRESSURE
 -

ISSUE 2 DATE AUG '81

DE 203

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)
BT13^a & BT13^b (ONE OF EACH)
STEEL
AUTOMATIC TIGHTLOCK OUTER END-BAR INNER END
ELECTRIC (BR) WITH PRESSURE VENTILATION & HEATING
90
3.5
FLUORESCENT
28
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

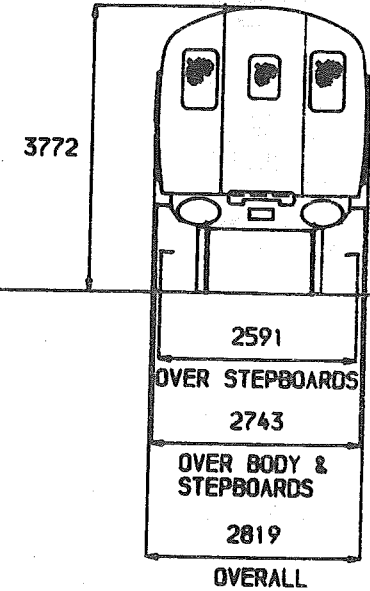
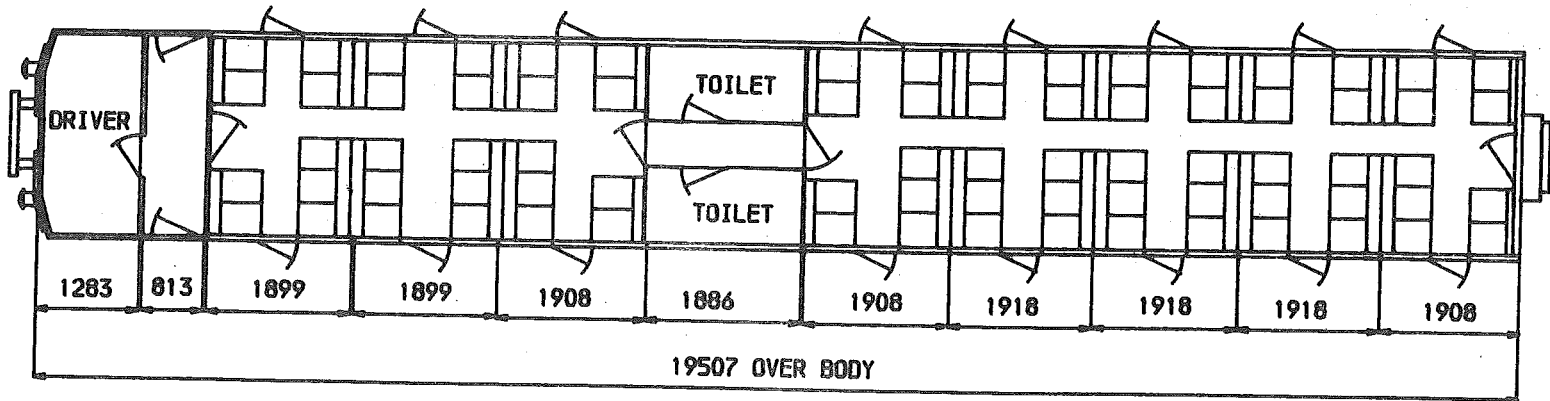
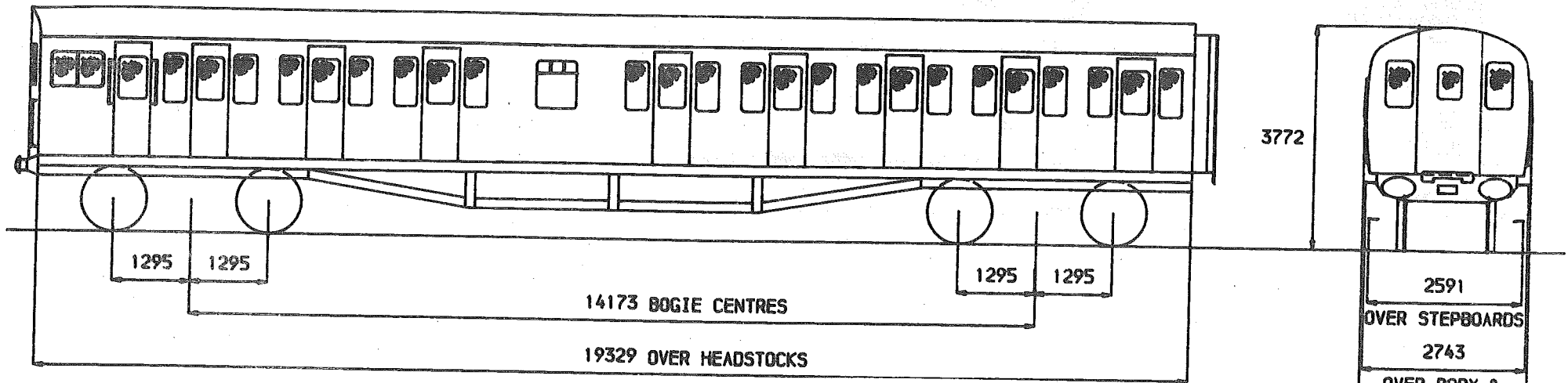
DEMU-BUILDER BR DERBY-PROTOTYPE

BASIC TYPE

DE 203 0A

VARIANTS

NONE



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

ISSUE 1 DATE SEP' 80

DE 204

BASIC TYPE

ALTERNATIVES

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

ELECTRO-PNEUMATIC
S.R.MK 4 UNPOVERED
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

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLIEGH - REFURBISHED 1980 (PROTOTYPE)

BASIC TYPE

DE 204 0A

VARIANTS

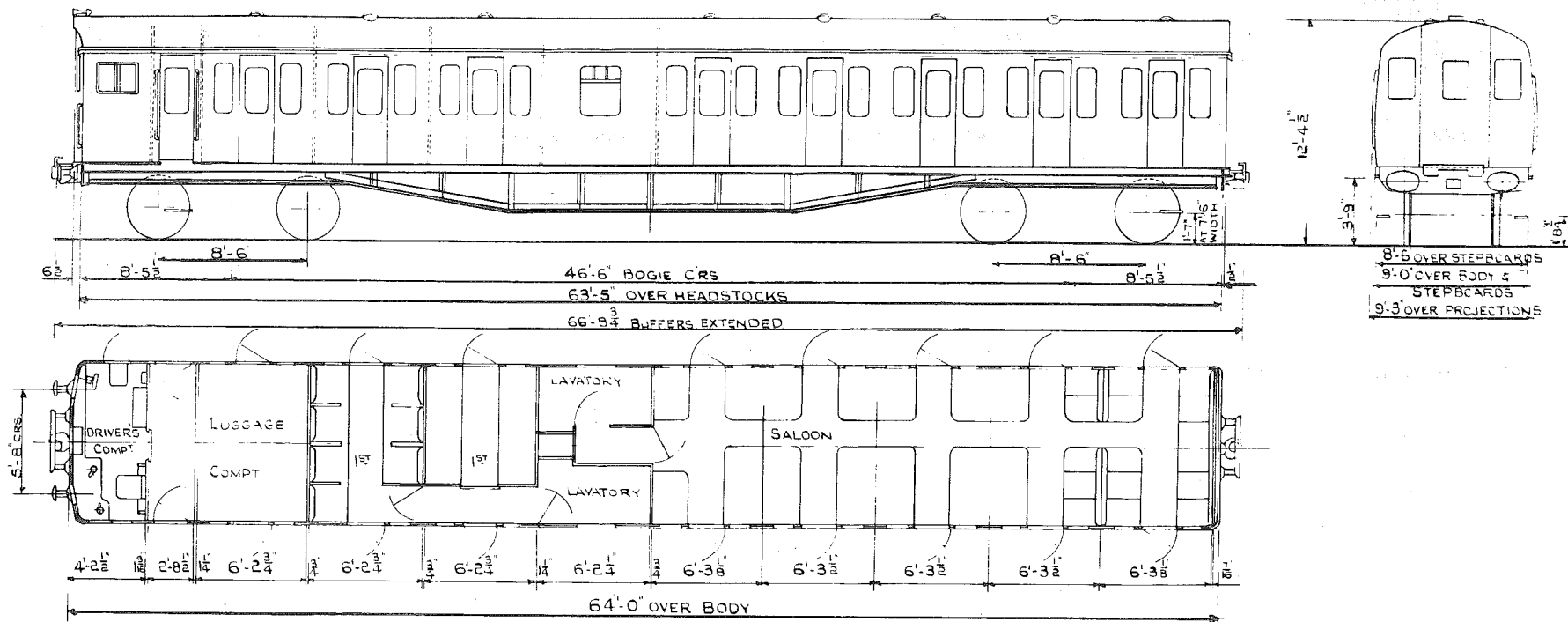
NONE

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 3 DATE DEC '81

DE 301

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
A.W.S.
TRAIN COMMUNICATION
BUFFERS

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

FLUORESCENT & TUNGSTEN

TRACTION DATA FOR MULTIPLE UNITS

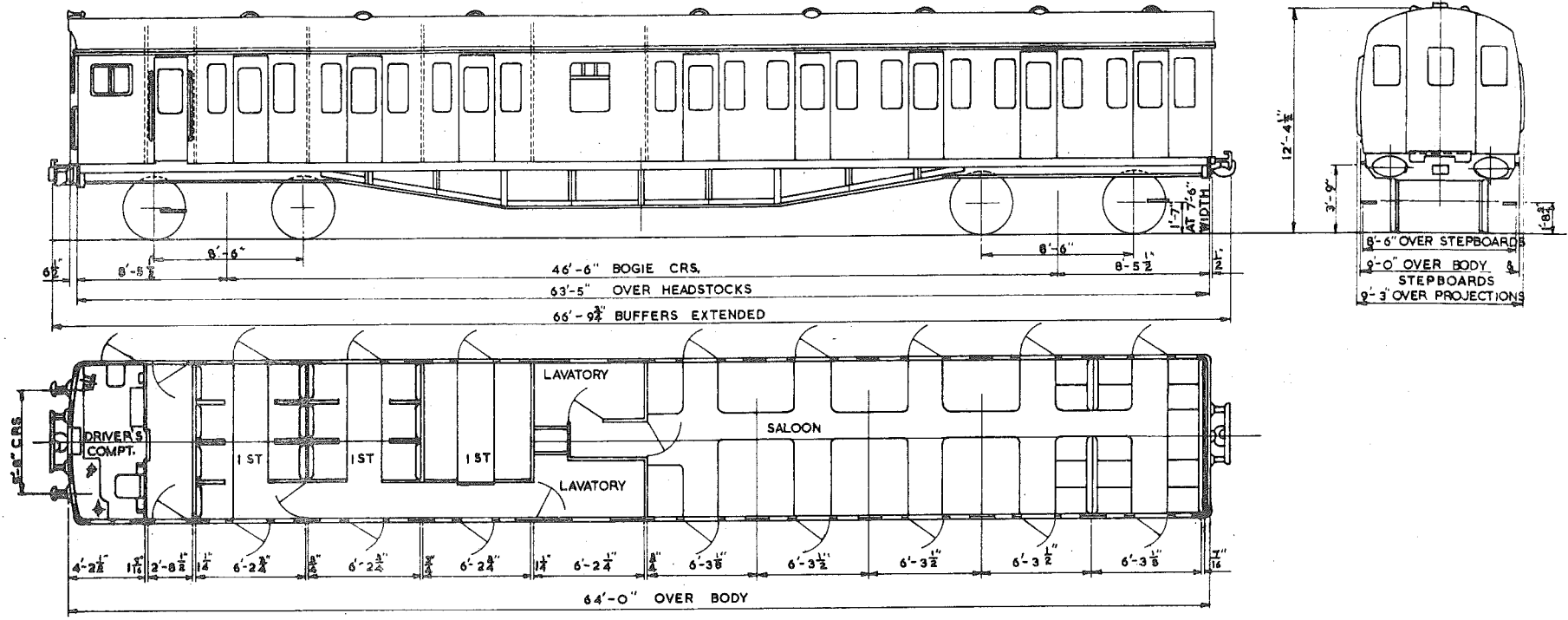
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DE 301 0A

VARIANTS

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



SEATS
 TOILETS
 COMPARTMENTS
 GUARDS COMPARTMENTS
 VENTILATION
 CATERING EQUIPMENT

19 FIRST CLASS 50 SECOND CLASS
 2
 3 FIRST CLASS PLUS SECOND CLASS SALOON
 -
 -

ORIGINAL DIAGRAMS FOR REFERENCE.-
 BR 683

ISSUE 1 DATE SEP' 80

DE 302

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 (BUCKEY) OUTER END-AUTOMATIC SOLID SHANK
(ALLIANCE NO.2) INNER END
ELECTRIC (BR)
75
3.5
ELECTRIC
32.5
NOT FITTED
FITTED
NOT FITTED
RETRACTABLE SPINDLE-559 X 356 OVAL OUTER END ONLY

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

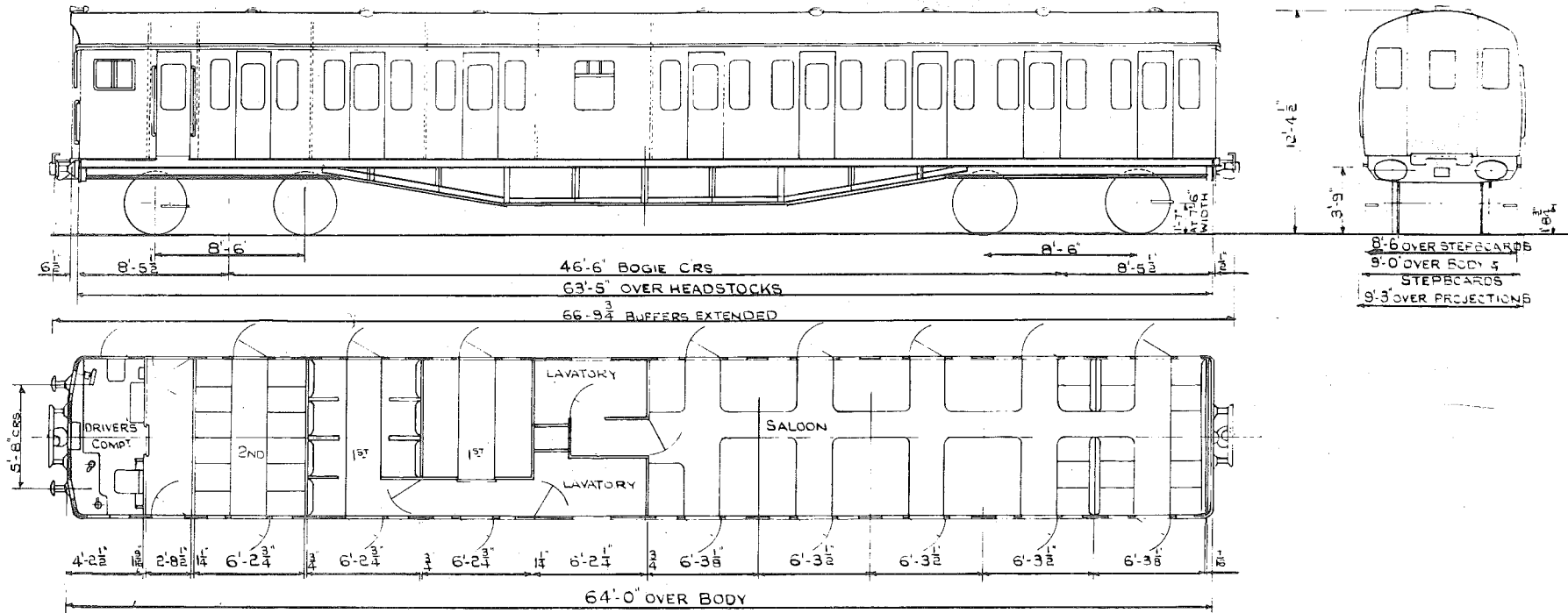
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DE 302 0A

VARIANTS

NONE



- | | |
|---------------------|---|
| SEATS | 13 FIRST CLASS & 2 SECOND CLASS |
| TOILETS | 2 |
| COMPARTMENTS | 2 FIRST CLASS 1 SECOND CLASS PLUS SECOND CLASS SALOON |
| GUARDS COMPARTMENTS | - |
| VENTILATION | - |
| CATERING EQUIPMENT | - |

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

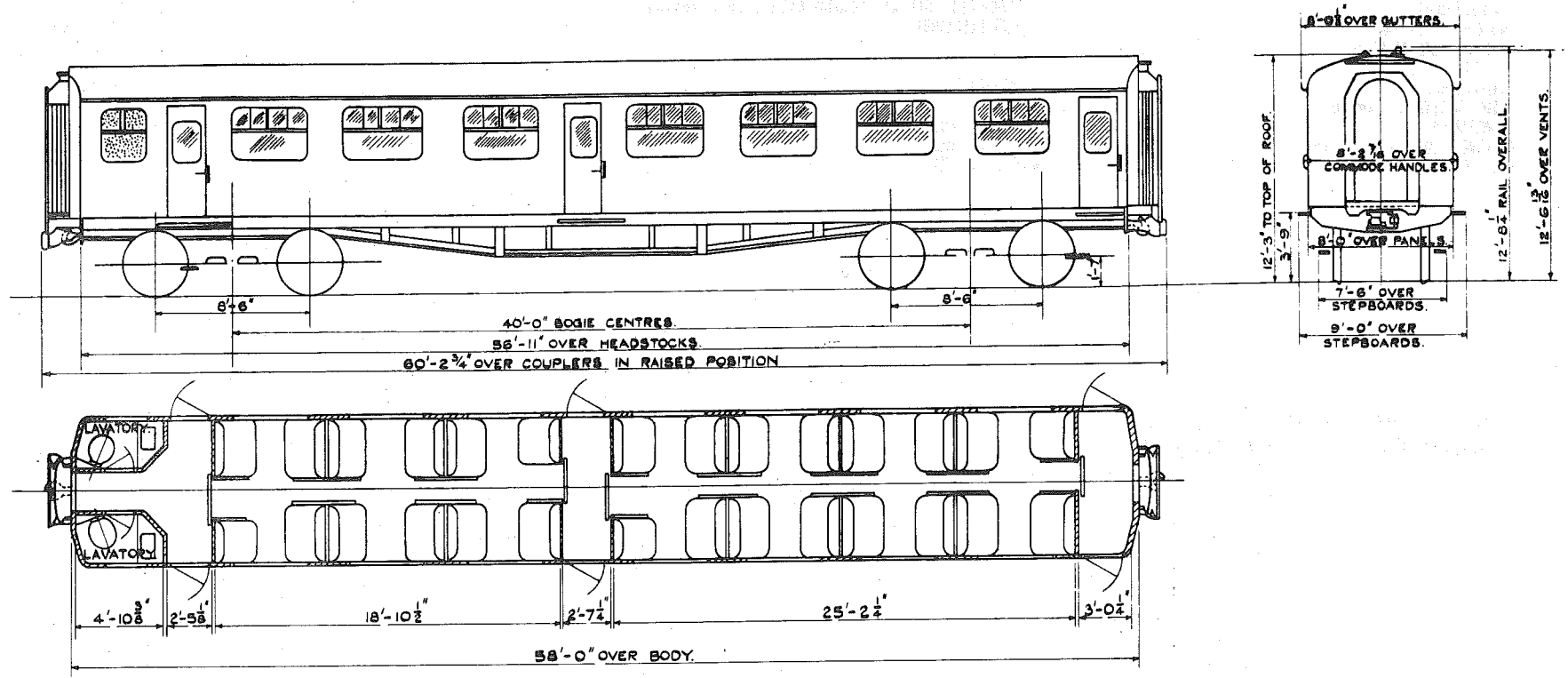
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DE 303 OA

VARIANTS

NONE



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

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 670

ISSUE 2 DATE DEC '81

DH 201

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

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

TRACTION DATA FOR MULTIPLE UNITS

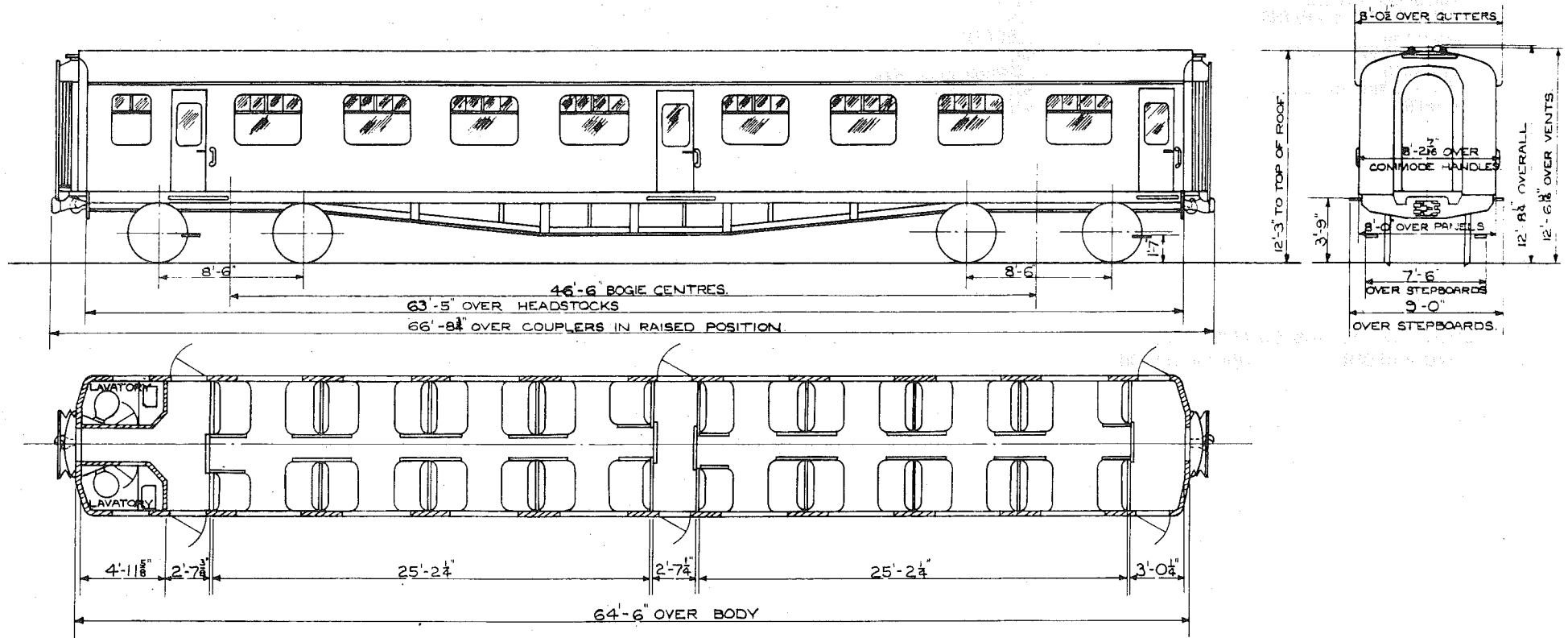
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 201 0A

VARIANTS

NONE



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

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 671

ISSUE 1 DATE SEP' 80

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
ELECTRIC
30.5
EXPRESS ELECTRIC
NOT FITTED
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 202 0A

VARIANTS

NONE

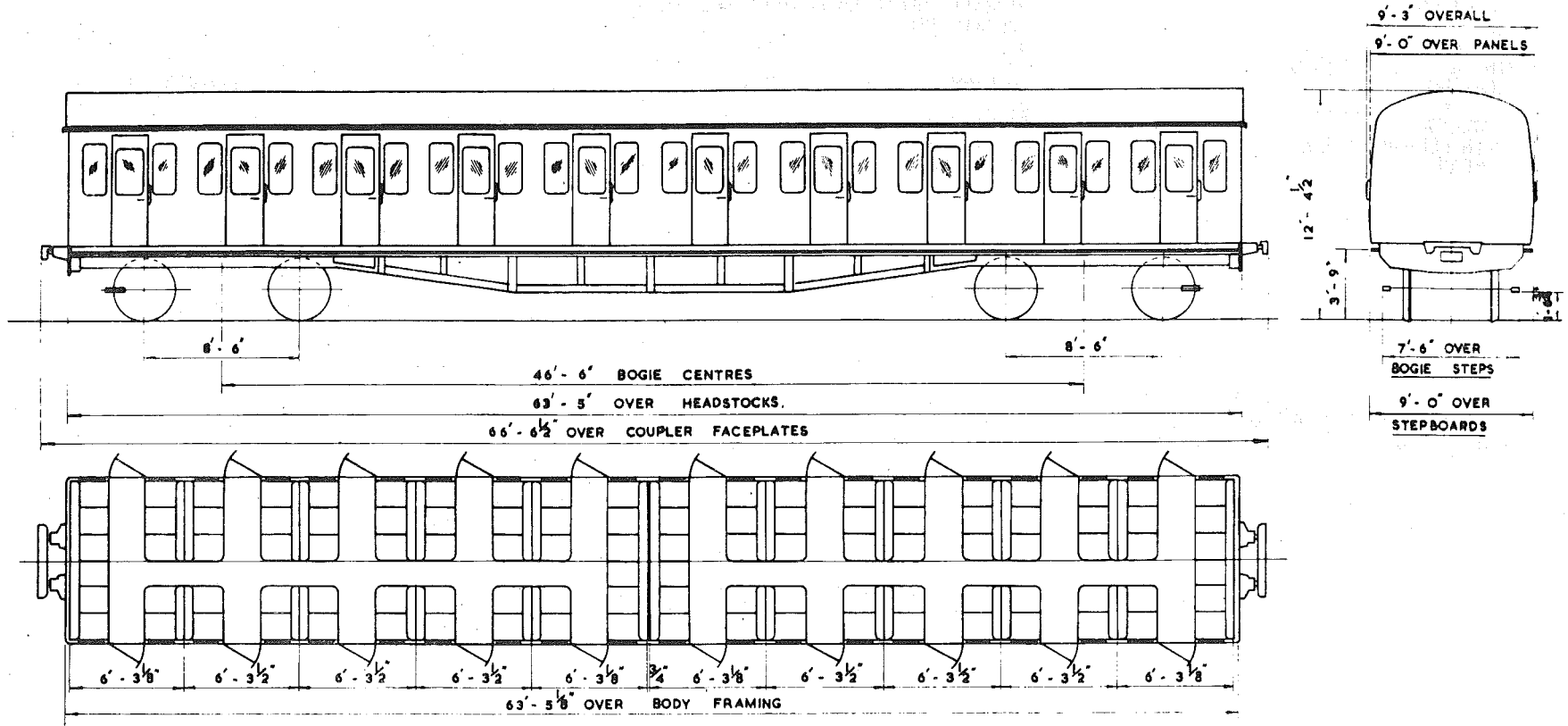
BRB
RESIDUARY LTD
1995

TRAILER SECOND

CLASS 205
205/1

TS

DH 203



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

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 672

ISSUE 3 DATE DEC' 81

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

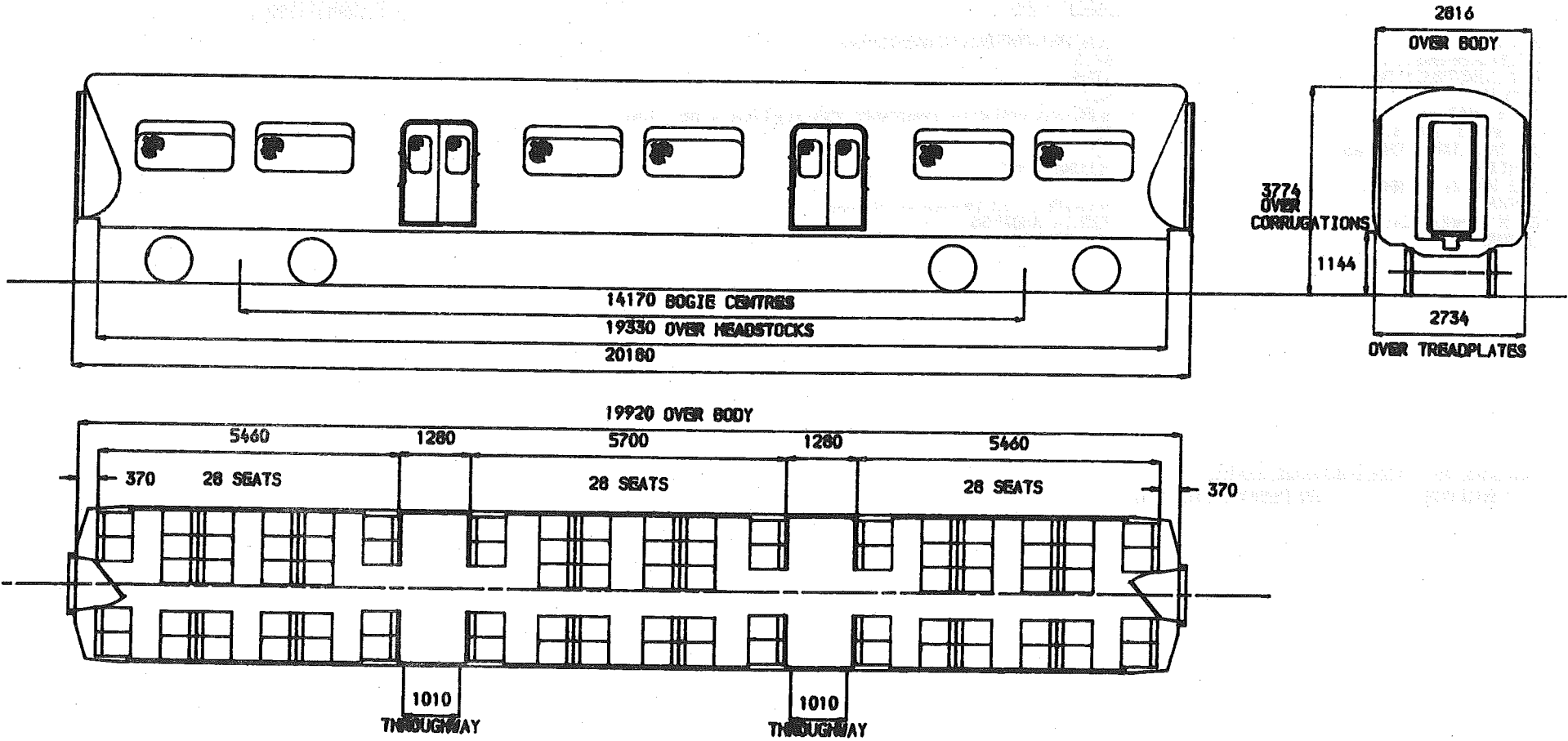
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 203 OA

VARIANTS

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



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

ISSUE 2 DATE AUG '81

DH 205

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 (WESTCODE)
BT13
STEEL
BAR
ELECTRIC (BR) WITH PRESSURE VENTILATION & HEATING
90
3.5
FLUORESCENT
27
FLEXIBLE DIAPHRAGH/RIGID (GRP)
PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

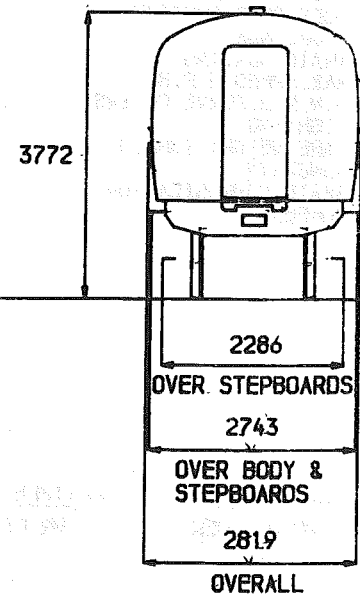
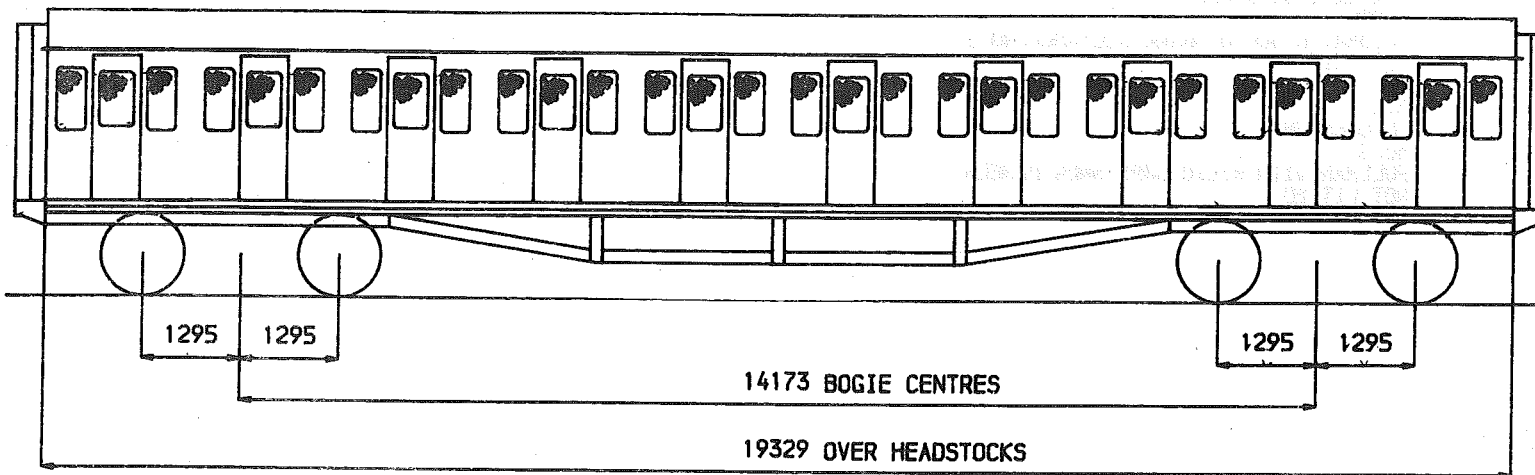
DMU-BUILDER BR DERBY-PROTOTYPE

BASIC TYPE

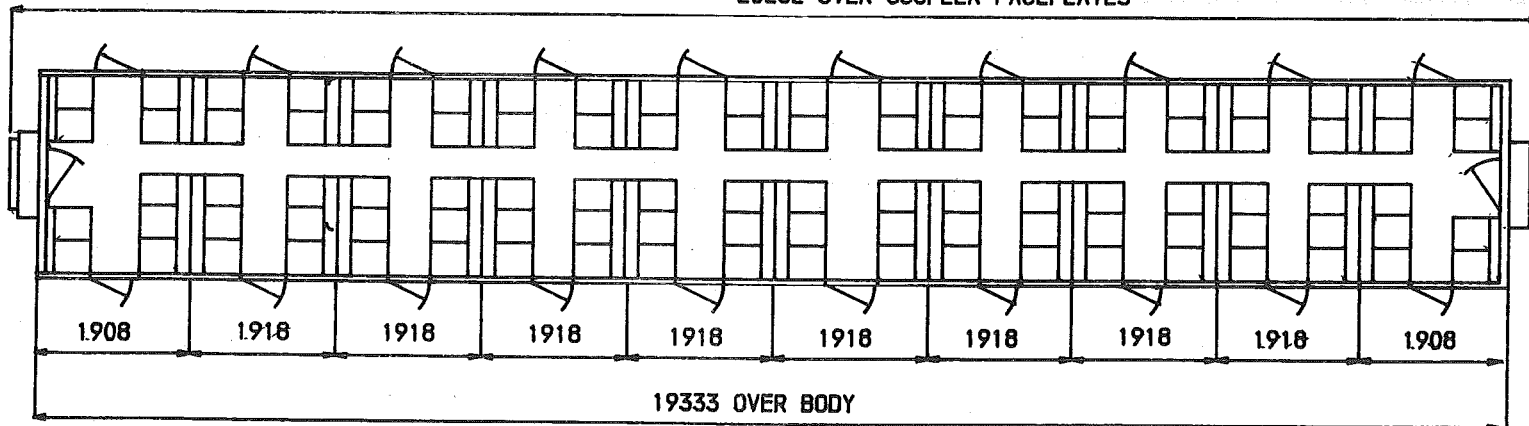
DH 205 0A

VARIANTS

NONE



20282 OVER COUPLER FACEPLATES



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

ISSUE 2. DATE DEC '81

DH 206

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

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

TRACTION DATA FOR MULTIPLE UNITS

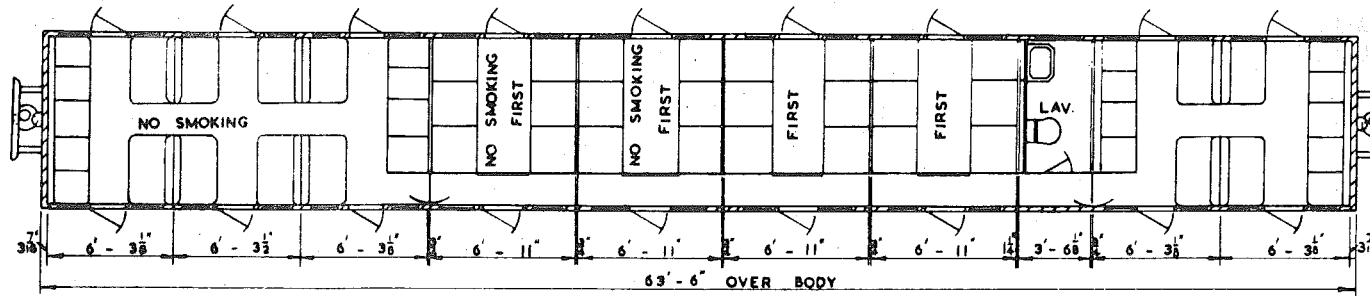
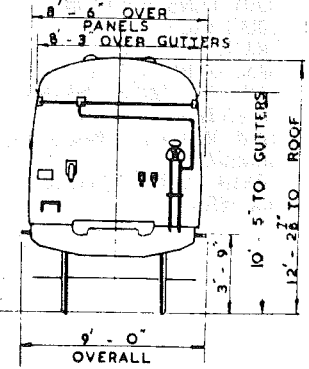
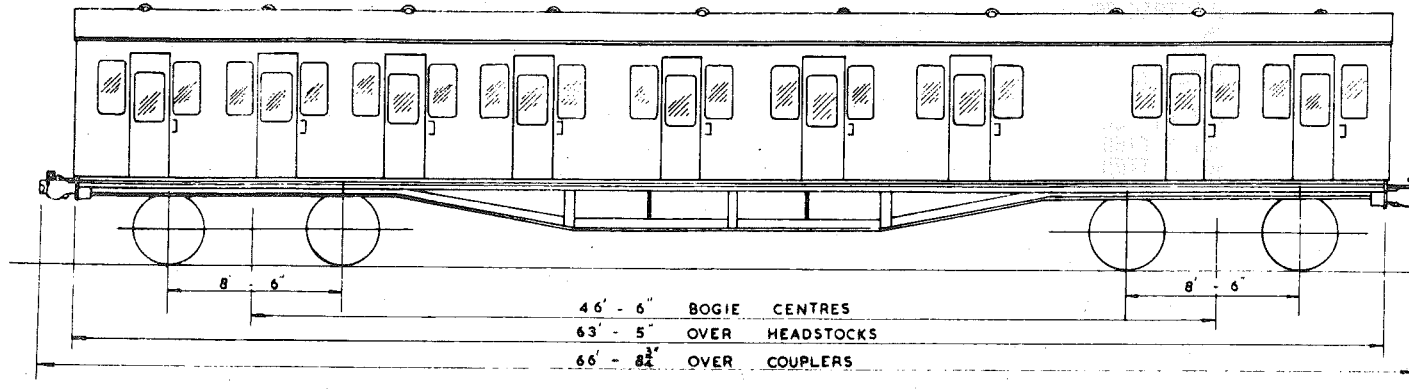
DEMU-BUILDER BR. EASTLIEGH - REFURBISHED 1980 (PROTOTYPE)

BASIC TYPE

DH 206 0A

VARIANTS

NONE



SEATS
 TOILETS
 COMPARTMENTS
 GUARDS COMPARTMENTS
 VENTILATION
 CATERING EQUIPMENT

24 FIRST CLASS 42 SECOND CLASS
 1
 4 FIRST CLASS PLUS 2 SECOND CLASS SALOONS
 -
 -

ORIGINAL DIAGRAMS FOR REFERENCE -
 BR 667

ISSUE 1 DATE SEP' 80

DH 301

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

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

TRACTION DATA FOR MULTIPLE UNITS

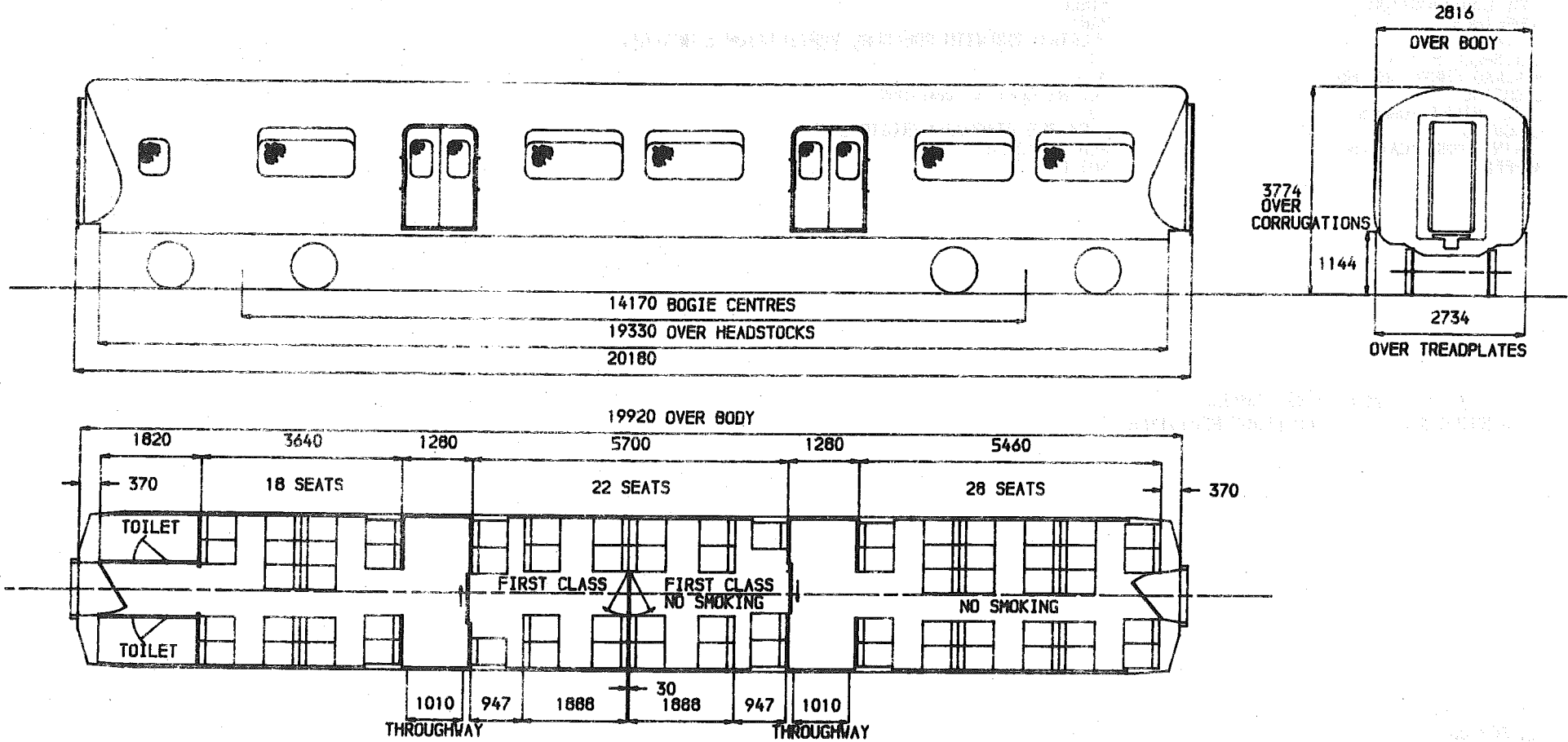
DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 301 0A

VARIANTS

NONE



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

ISSUE 1 DATE SEP' 80

DH 302

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

ELECTRO-PNEUMATIC (WESTCODE)
BT13
STEEL
BAR
ELECTRIC (BR) WITH PRESSURE VENTILATION & HEATING
90
3.5
FLUORESCENT & TUNGSTEN
28
FLEXIBLE DIAPHRAGM/RIGID (GRP)
PUBLIC ADDRESS
NOT FITTED

TRACTION DATA FOR MULTIPLE UNITS

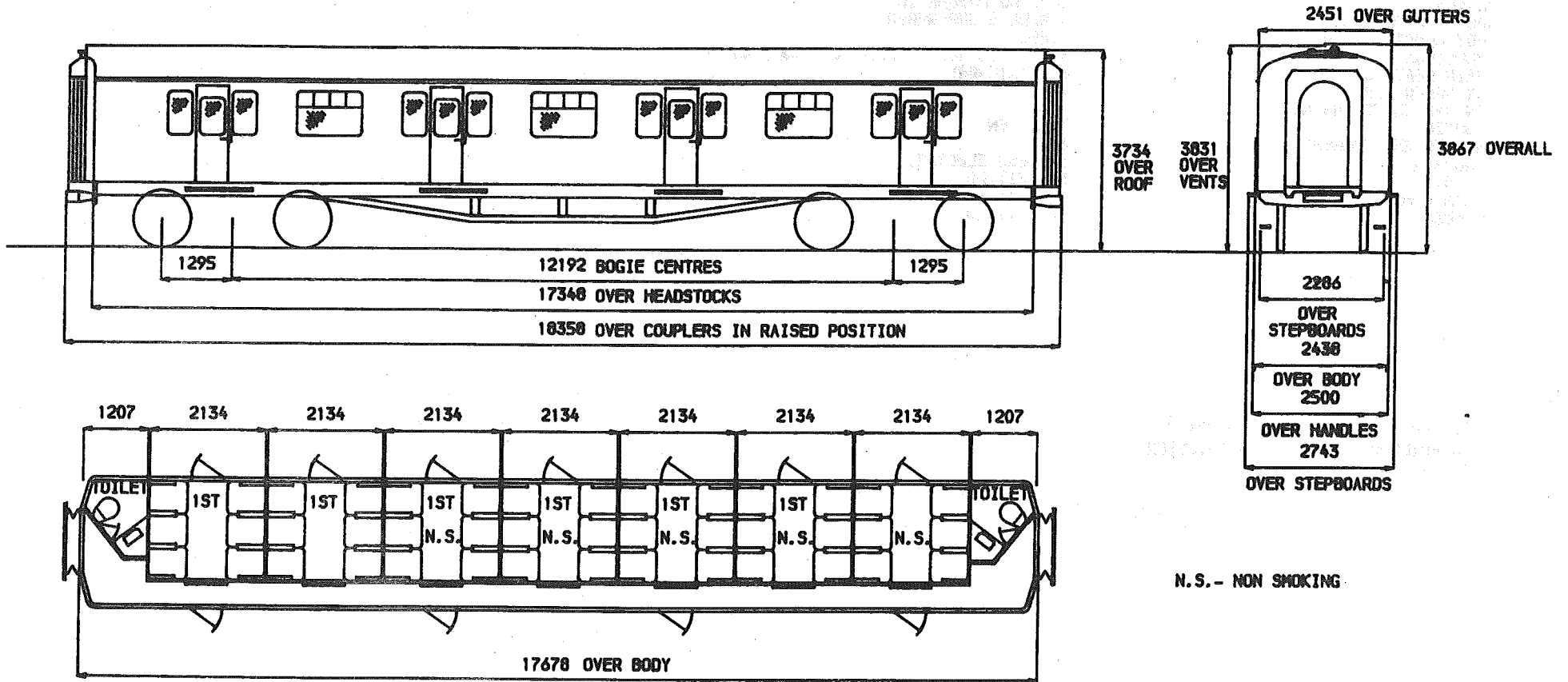
DEMU-BUILDER BR DERBY-PROTOTYPE

BASIC TYPE

DH 302 0A

VARIANTS

NONE



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 1 DATE 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 UNPOWERS
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

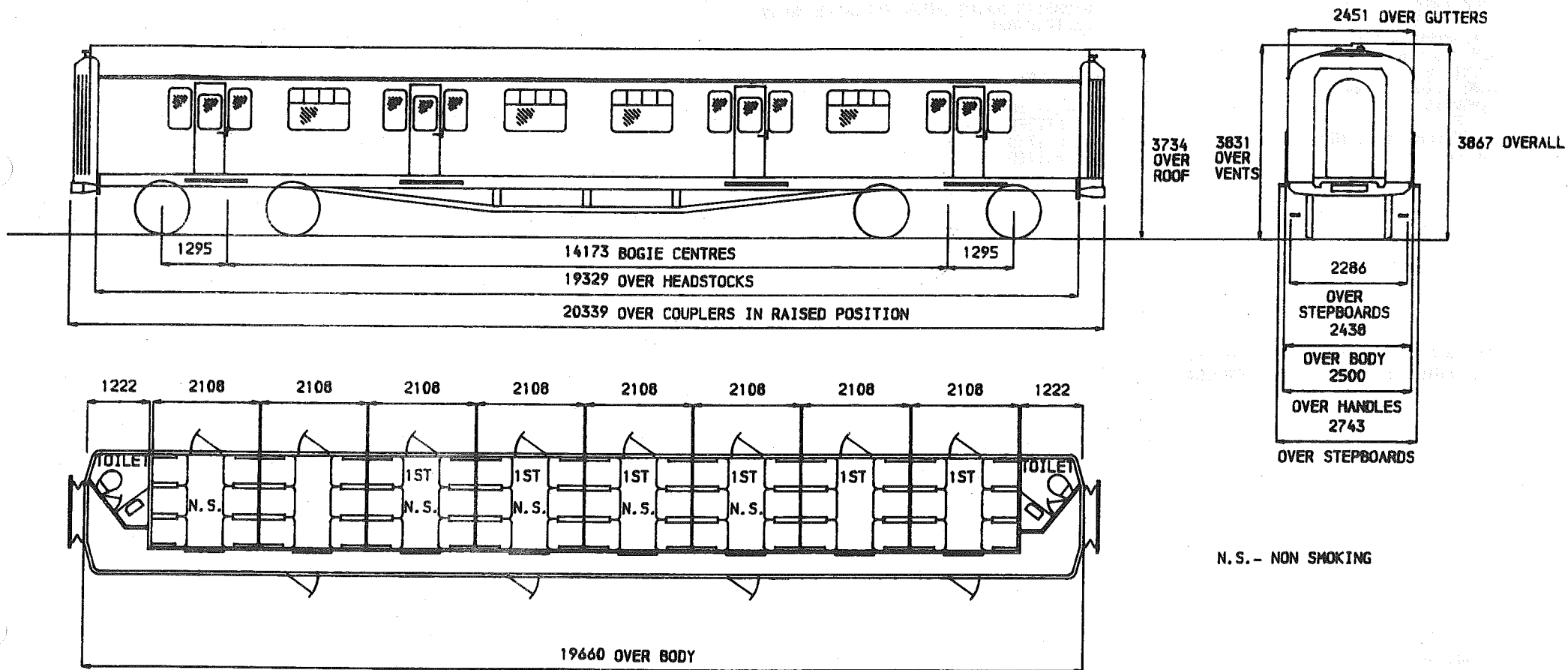
NONE

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 1 DATE JUN '81

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.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
31.5
EXPRESS ELECTRIC
NOT FITTED
NOT FITTED
NOT FITTED

ALTERNATIVES

TRACTION DATA FOR MULTIPLE UNITS

DEMU-BUILDER BR EASTLEIGH

BASIC TYPE

DH 304 0A

VARIANTS

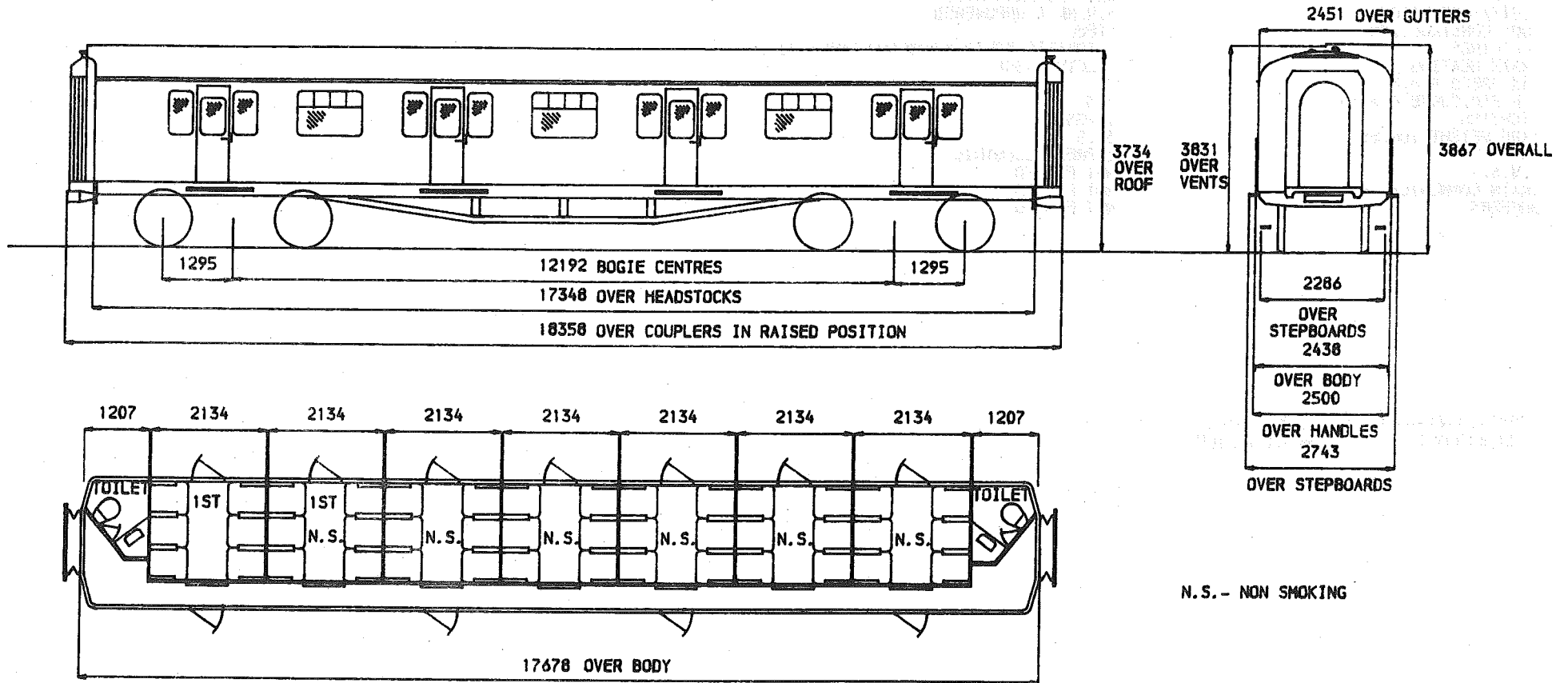
NONE

TRAILER COMPOSITE

CLASS 206

TC

DH 305



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 1 DATE JUN '81

DH 305

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

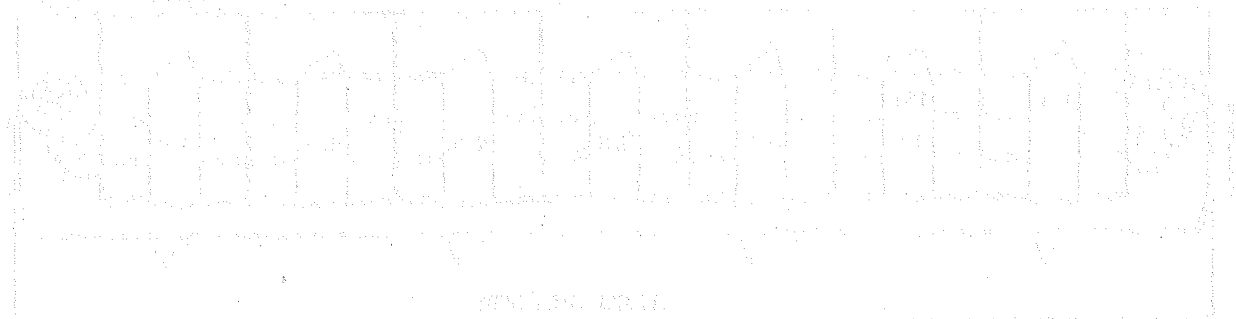
BASIC TYPE

ELECTRO PNEUMATIC
S.R.MK 4 UNPOWERED
STEEL
AUTOMATIC 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

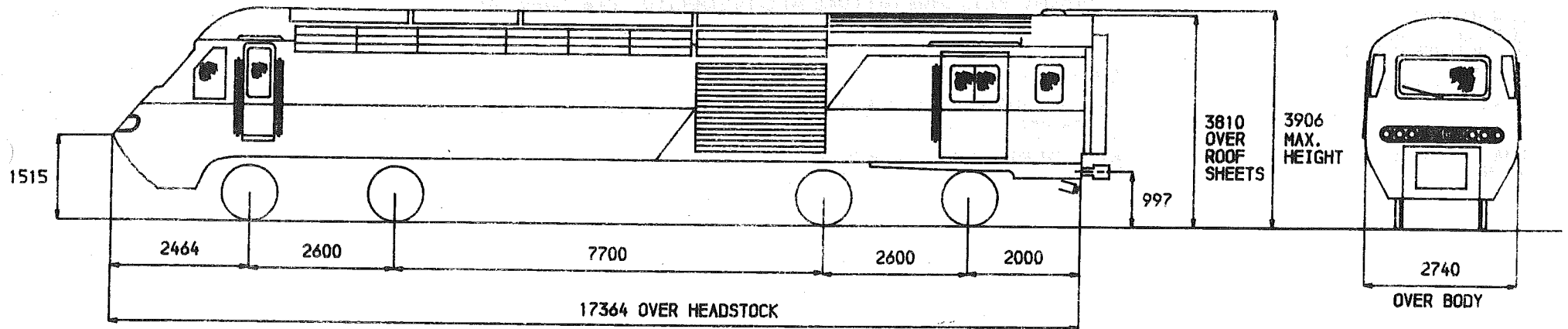


BASIC TYPE

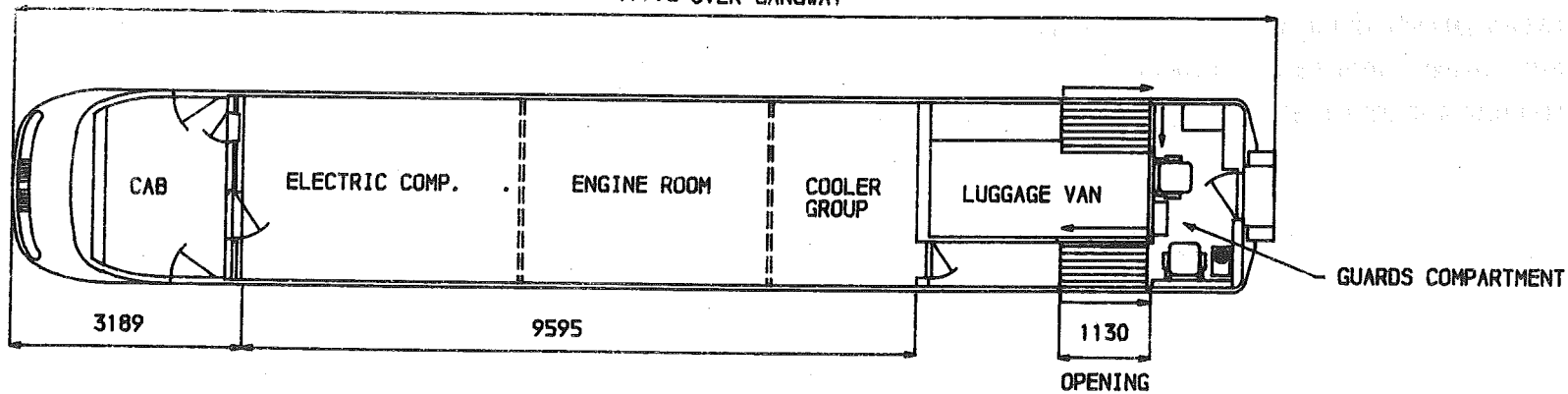
DH 305 0A

VARIANTS

NONE



17792 OVER GANGWAY



- SEATS -
- TOILETS -
- COMPARTMENTS -
- GUARDS COMPARTMENTS -
- VENTILATION 1
- CATERING EQUIPMENT -
- FULL AIR CONDITIONING-CAB ONLY

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 689

ISSUE 2 DATE MAY 81

GB 502

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

A.W.S.
TRAIN COMMUNICATION
BUFFERS

AIR
BP10b (BRUSH TRACTION MOTORS)
STEEL
EMERGENCY DRAWBAR (WITH SEPARATE TOWBARS STORED IN VEHICLE) OUTER END-
AUTOMATIC SOLID SHANK (ALLIANCE NO.2-INTERMEDIATE SHANK INNER END
ELECTRIC (BR)
125
4.5
FLUORESCENT & TUNGSTEN
70
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
INNER END
FITTED
DRIVER/GUARD & PUBLIC ADDRESS TRANSMITTER
NOT FITTED

BP10c (G.E.C. TRACTION MOTORS)

TRACTION DATA FOR MULTIPLE UNITS

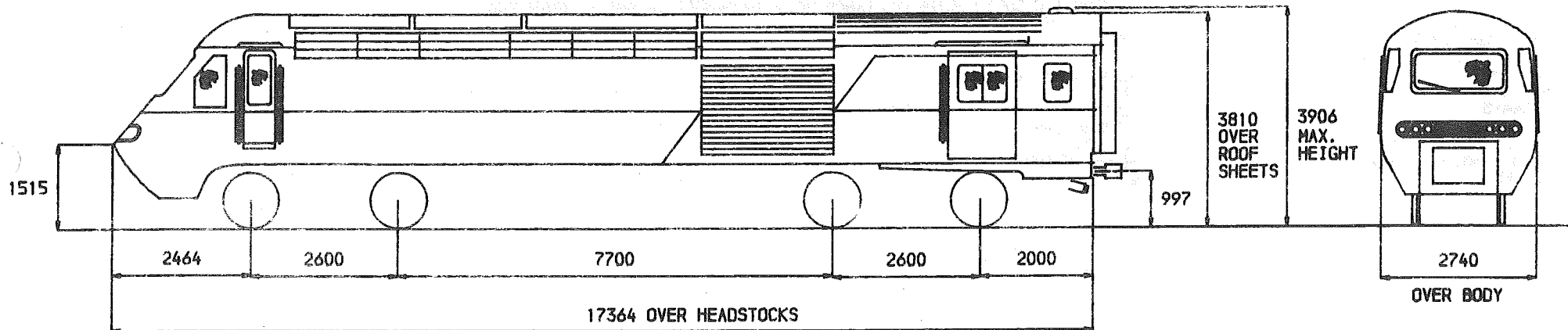
HST- INTRODUCED-CLASS 253-V.R.1976, V.OF ENGLAND 1979--CLASS 254-E.R.1978.
ENGINE PAXMAN VALENTA 12 CYL.12RP200L V TYPE-CLASS 253 2250 HP-CLASS 254 2500 HP
ALTERNATOR BRUSH BA1001B-1000 AMPS 1468 VOLTS
TRANSMISSION ELECTRIC-4 BRUSH OR GEC FULLY SUSPENDED TRACTION MOTORS.

BASIC TYPE

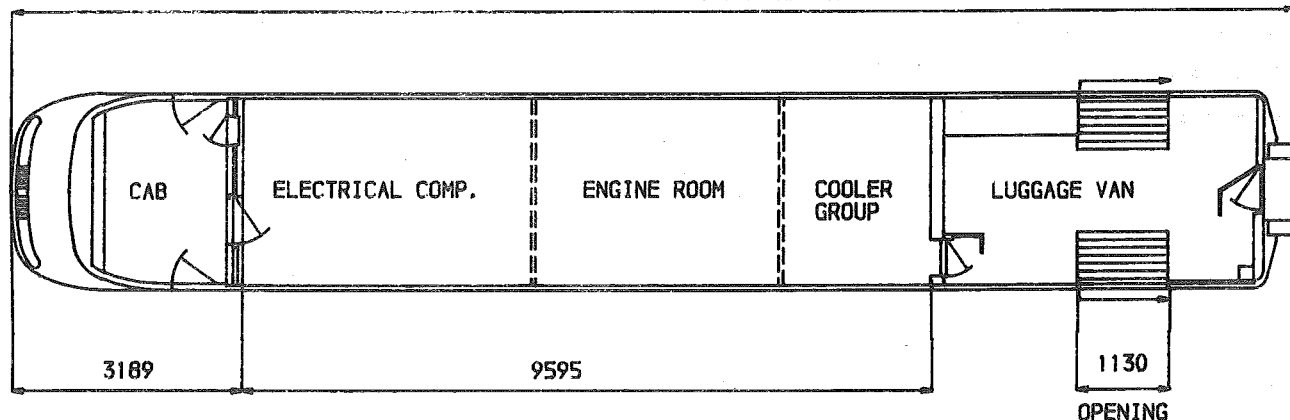
GB 502 0A

VARIANTS

0B BP10cBOGIES (G.E.C TRACTION MOTORS).



17792 OVER GANGWAY



SEATS
 TOILETS
 COMPARTMENTS
 GUARDS COMPARTMENTS
 VENTILATION
 CATERING EQUIPMENT

-
 -
 -
 FULL AIR CONDITIONING-CAB ONLY
 -

ISSUE 2

DATE MAY 81

GB 503

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

A. V. S.
TRAIN COMMUNICATION
BUFFERS

AIR
BP106
STEEL
EMERGENCY DRAWBAR (WITH SEPARATE TOWBARS STORED IN VEHICLE) OUTER END-
AUTOMATIC SOLID SHANK (ALLIANCE NO. 2-INTERMEDIATE SHANK INNER END
ELECTRIC (BR)
125
4.5
FLUORESCENT & TUNGSTEN
70
CENTRALLY SUPPORTED-SWIVELLING-FLEXIBLE DIAPHRAGM-STEEL FACE PLATE
INNER END
FITTED
DRIVER/GUARD
NOT FITTED

TRACTION DATA FOR MULTIPLE UNITS

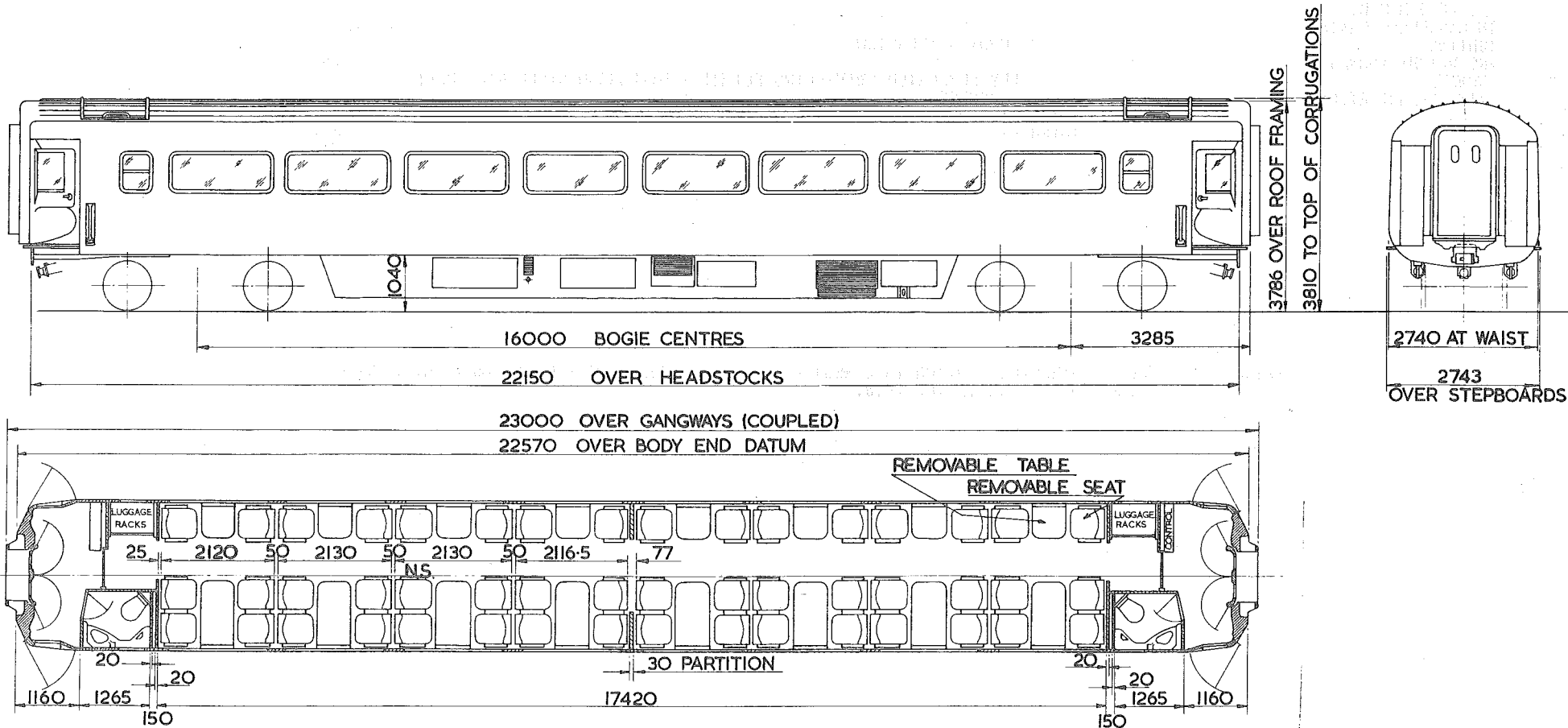
HST- NORTHEAST/SOUTHWEST. INTRODUCED 1981.
ENGINE PAXMAN VALENTA 12 CYL. 12RP200L V TYPE-2250 HP.
ALTERNATOR BRUSH BA1001B-1000 AMPS 1448 VOLTS
TRANSMISSION ELECTRIC-4 BRUSH FULLY SUSPENDED TRACTION MOTORS.

BASIC TYPE

GB 503 0A

VARIANTS

NONE



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

ORIGINAL DIAGRAMS FOR REFERENCE:-
BR 666

ISSUE 5 DATE MAY 84

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

A.P.T.

TRACTION DATA FOR MULTIPLE UNITS

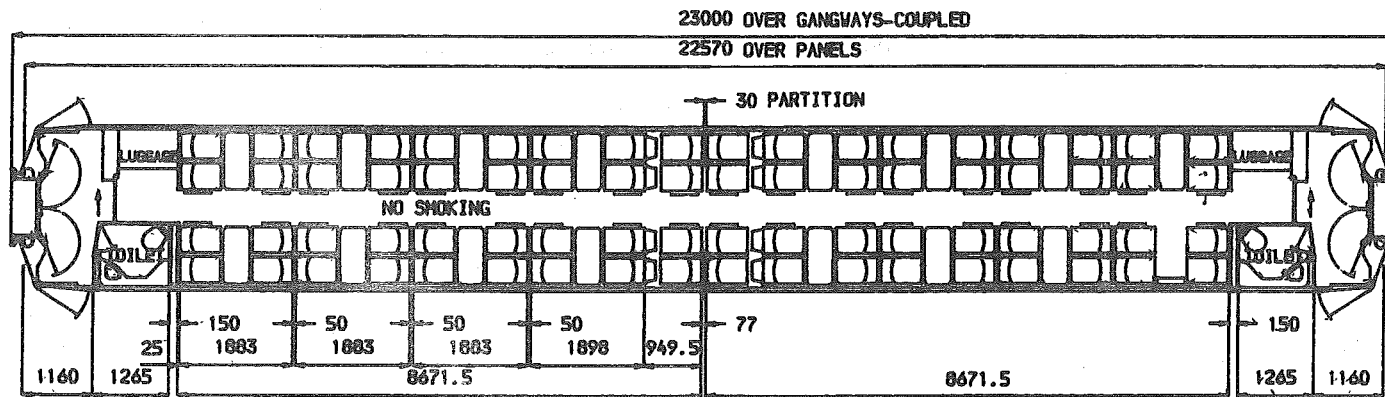
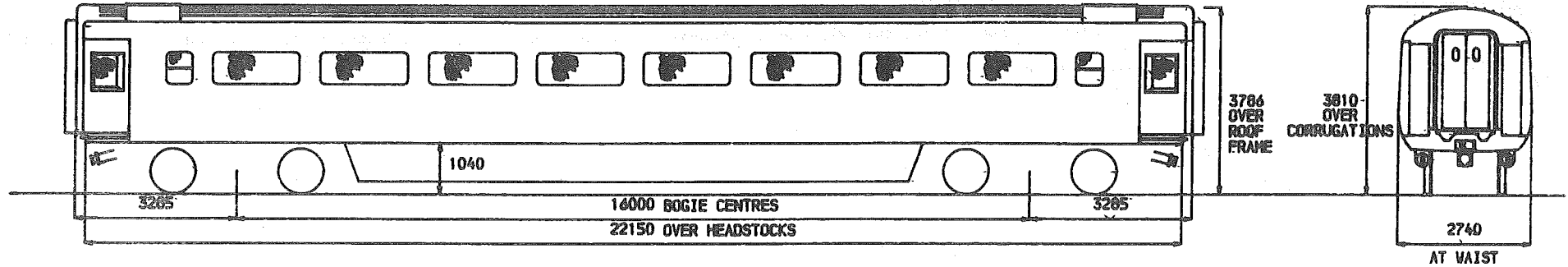
HST- INTRODUCED CLASS 253 WESTERN REGION 1976, WEST OF ENGLAND 1979, NORTHEAST/SOUTHWEST INTRODUCED 1981.
CLASS 254 EASTERN REGION 1978.

BASIC TYPE

GH 102 0A

VARIANTS

0B BT10b-CLASS 253 BOGIES, TARE 33.5.
0D BT10b-CLASS 253 BOGIES, TARE 33.5, APT SEATS.
1C CONVERTED PROTOTYPE, 4.1 MIN. RAD. CURVE



SEATS	72
TOILETS	2
COMPARTMENTS	-
GUARDS COMPARTMENTS	-
VENTILATION	FULL AIR CONDITIONING
CATERING EQUIPMENT.	-

ORIGINAL DIAGRAMS FOR REFERENCE, -
BR 675

ISSUE. DATE
2. DEC '61

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 (ØR) FULL AIR CONDITIONING
125
4.5
FLUORESCENT & TUNGSTEN
35
CENTRALLY SUPPORTED-SWIVELLING-FOAM DIAPHRAGM-STEEL FACE PLATE
PUBLIC ADDRESS
NOT FITTED

ALTERNATIVES

BT10b-CLASS 253

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

TRACTION DATA FOR MULTIPLE UNITS

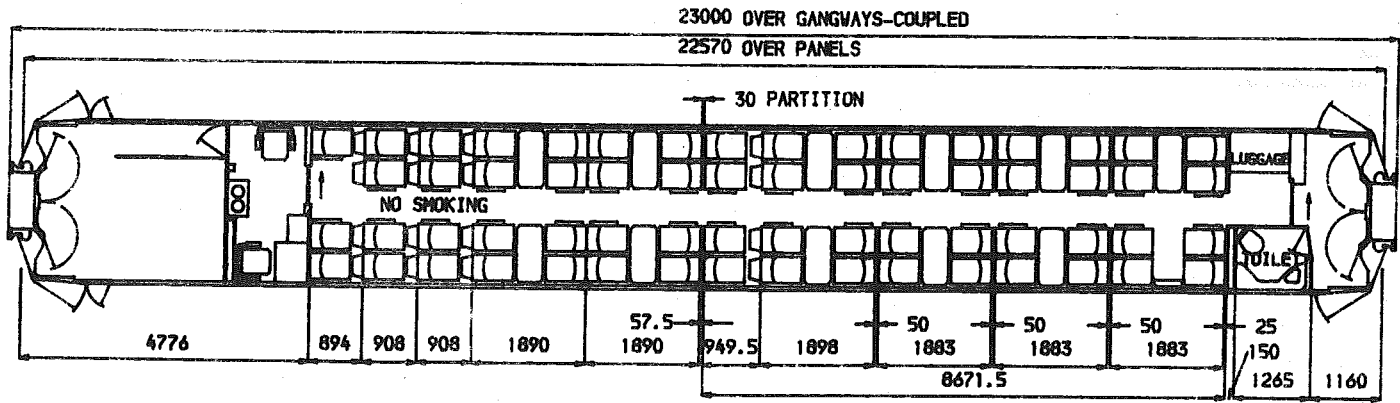
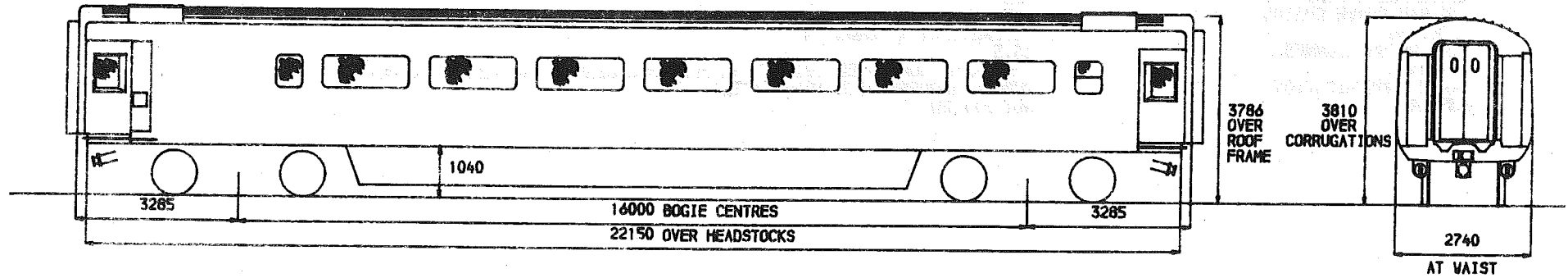
HST- INTRODUCED-CLASS 253 V.R.1976, V.OF ENGLAND 1979, NORTHEAST/SOUTHWEST TO BE INTRODUCED-CLASS 254 E.R.1978.

BASIC TYPE

GH 202 0A

VARIANTS

OB TARE 34, GANGWAY HAS FLEXIBLE DIAPHRAGM.
OC TARE 33.5, GANGWAY HAS FLEXIBLE DIAPHRAGM, BT10b BOGIES.



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

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 676

ISSUE 2 DATE MAY 91

GJ 201

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

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

TRACTION DATA FOR MULTIPLE UNITS

HST- TO BE INTRODUCED.

BASIC TYPE

GJ 201 0A

VARIANTS

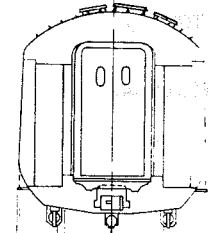
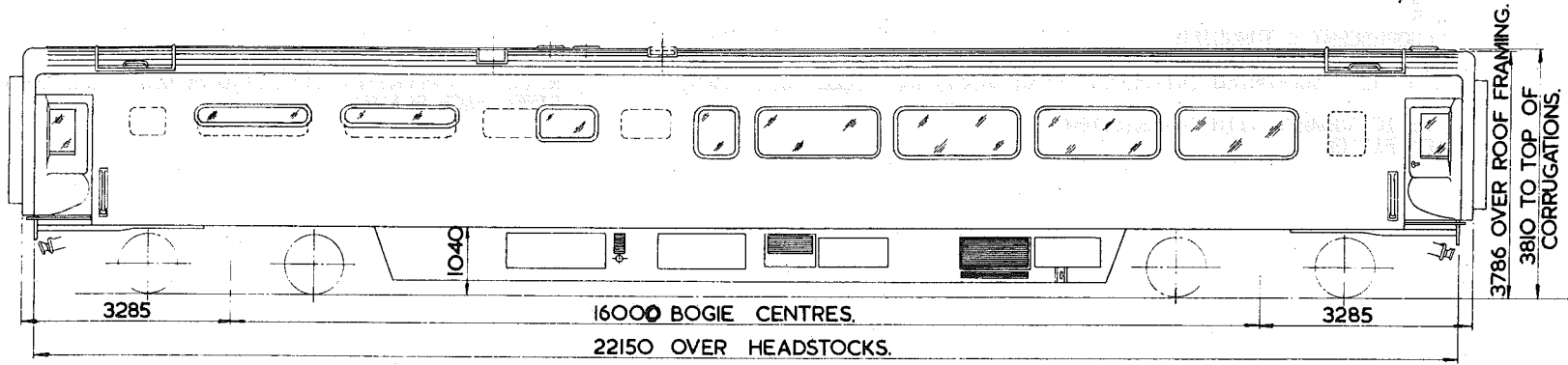
NONE

TRAILER RESTAURANT SECOND WITH BUFFET-HST

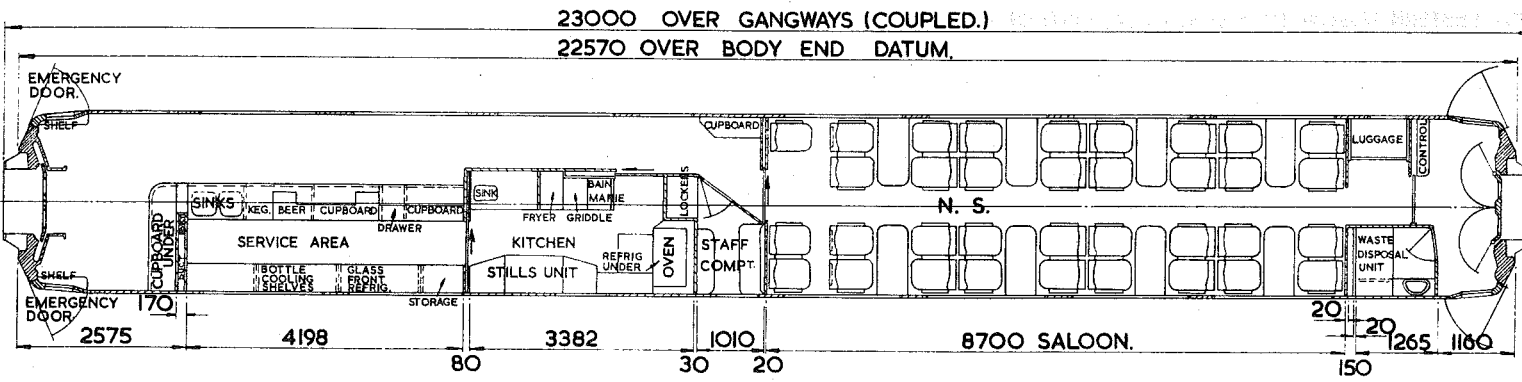
CLASS 253
254

TRSB

GK 202



2740 AT WAIST.
2743 OVER STEPBOARDS.



N. S. - NO SMOKING

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

- 35
-
-
-
- FULL AIR CONDITIONING
- ELECTRIC MICROWAVE/MICROAIRE

ORIGINAL DIAGRAMS FOR REFERENCE.-
BR 695

ISSUE 2 DATE MAY 81

GK 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 & BT10a (ONE OF EACH)
STEEL
AUTOMATIC SOLID SHANK (ALLIANCE NO 2 LONG SHANK)
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

TRACTION DATA FOR MULTIPLE UNITS

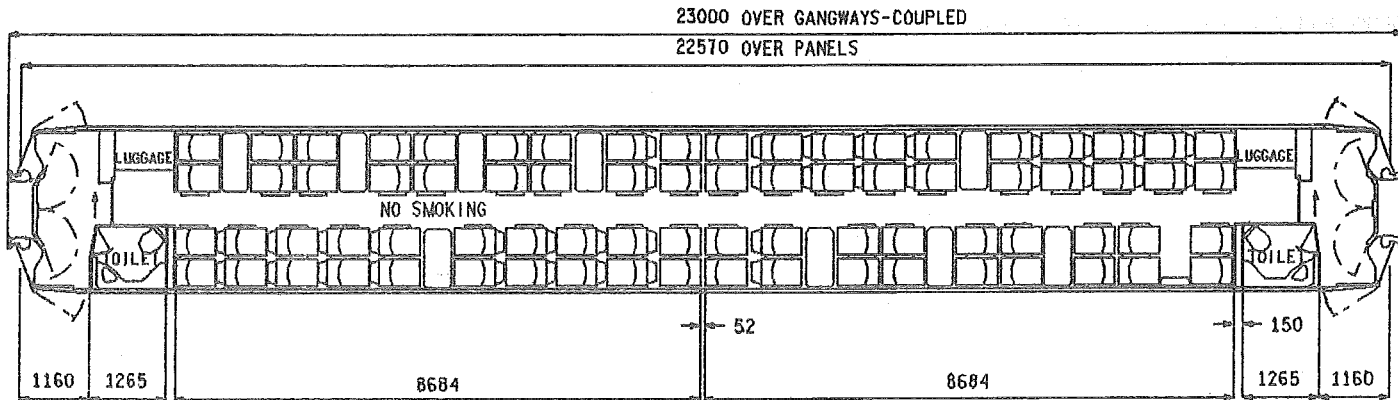
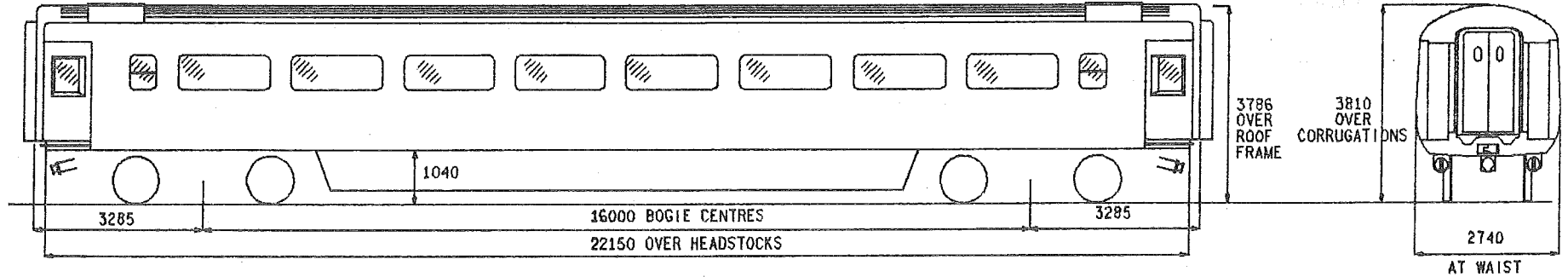
HST- INTRODUCED-CLASS 253 WESTERN REGION 1976-CLASS 254 EASTERN REGION 1978.

BASIC TYPE

GK 202 0A

VARIANTS

0B GANGWAYS HAVE FLEXIBLE DIAPHRAGM.



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

ISSUE DATE
2 MAY 84

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
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 DIAPHGRAM-STEEL FACE PLATE

PUBLIC ADDRESS
NOT FITTED
INTER CITY 70

ALTERNATIVES

A.P.T.

TRACTION DATA FOR MULTIPLE UNITS

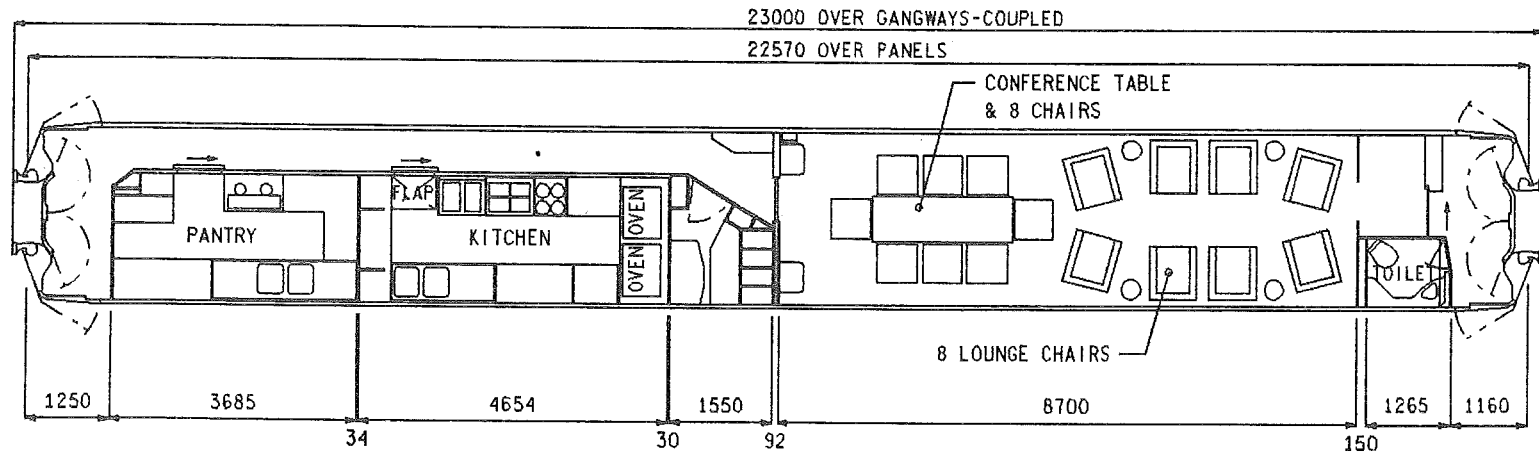
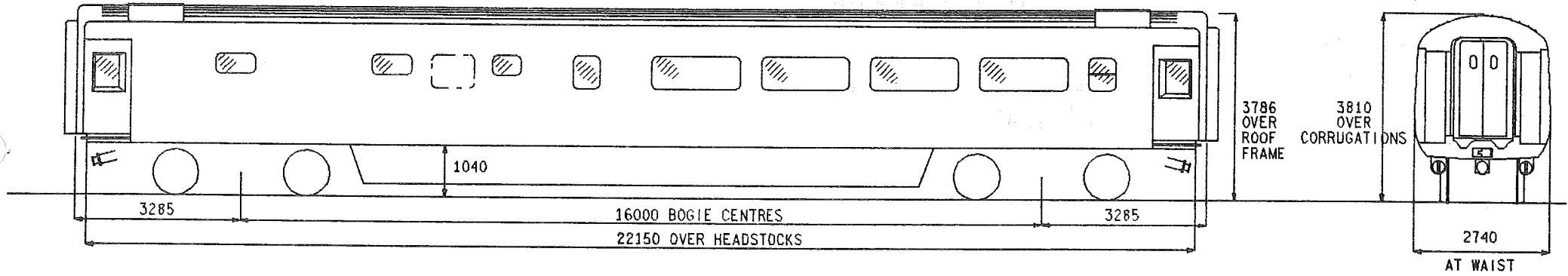
HST- INTRODUCED-CLASS 253 W.R.1976,W.OF ENGLAND 1979,NORTHEAST/SOUTHWEST 1981.
MODIFIED FOR EXECUTIVE HST 1983.

BASIC TYPE

GH 203 0A

VARIANTS

0B A.P.T. SEATS



- | | |
|---------------------|------------------------------|
| SEATS | 16 |
| TOILETS | 1 |
| COMPARTMENTS | - |
| GUARDS COMPARTMENTS | - |
| VENTILATION | FULL AIR CONDITIONING |
| CATERING EQUIPMENT | ELECTRIC-MICROWAVE/MICROAIRE |

ISSUE 1 DATE MAY 84

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.

BASIC TYPE

GM 401 OA

VARIANTS

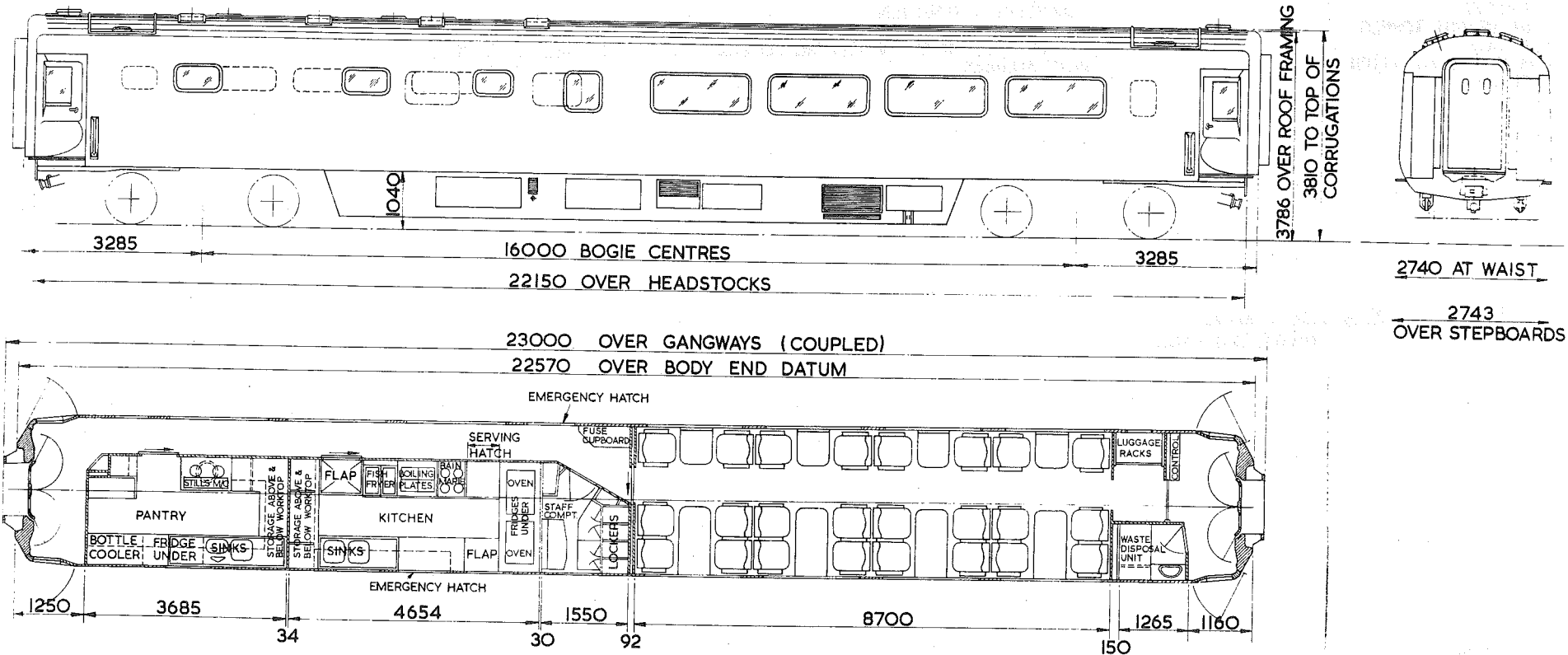
NONE

TRAILER RESTAURANT UNCLASSSED WITH KITCHEN-HST

CLASS 254

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 2 DATE MAY 81

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.

BASIC TYPE

GL 402 0A

VARIANTS

NONE

VEHICLE DIAGRAM BOOK
NO. 230
FOR DIESEL MULTIPLE UNIT TRAINS
(INCLUDING HST)

REVISION LETTER NO. 7

<u>LOCATION</u>	<u>ACTION</u>	<u>REASON FOR CHANGE</u>
Diagrams GH 102, and 203	Replace with Issues 5 and 2 of these pages	Diagrams up-dated
In numerical order	Insert new diagram GM 401	First Issue

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.

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Tel : 056 3582

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Railway Technical Centre
Derby