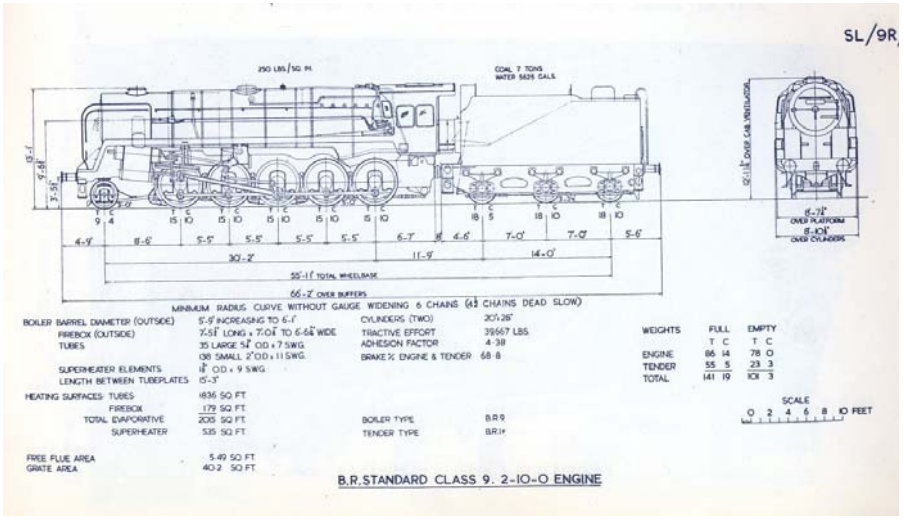
# BR Standard 9f Locomotive

*From Lesto Route Works & UK Branch Lines*

# History

The BR Standard 9f is the last steam loco design by British Railways, it's also the only BR Standard design to feature the 2-10-0 wheel arrangement. 251 locos where built from 1954 - 1960, the final locomotive to be built (92220 Evening Star) for the class was also the final steam loco built for BR. Many of the locos built on lasted a few years before being scrapped due to the mass withdrawal of steam power from the rail network. The need for a standard heavy freight loco at first was small due to the large number of Austerity and Big Four designed inherited by BR. The Original proposal for the Heavy Freight standard loco was for a 2-8-2 arrangement with the boiler from the Britannia 7MT. This design was eventually discarded as the 2-8-2 design would have had little benefits of the already numerous 2-8-0's on the network, and the fast fitted freight that it would have been designed for was not to come about. It was argued by E.S.Cox that a 2-10-0 would be more advantageous as it could haul existing wagon loads faster uphill while keeping the same braking power downhill. It was with this 'faster uphill' argument that the 9F was born. It should be noted though that Cox had originally argued in favour of the 2-8-2 design. The 9F design had to have a new boiler designed although many common parts where used in its construction. The loco is fitted with 5' diameter wheels, these being some 3"-6" larger than existing heavy



freight designs. An interesting feature added to the 9F's is the use of smoke deflectors, previous heavy freight designs neglected the need for smoke deflectors, but it was found that they where of benefit even down to 35 - 40mph. On other interesting feature of the 9F is the flangeless centre driving wheel, it was with this flangeless wheel that the 9F's where able to negotiate tight curves. One would assume that one type of tender would have been sufficient for the class of locomotives, but this was not to be the case. The class where fitted with BR1G tenders with a coal capacity of 7tons and 5,000 gallons water capacity. These tenders where almost identical to the BR1A tender except for the fall plate for the cab. The BR1C tender had a capacity of 9 tons of coal and 4725 gallons of water, this tender featured a variant, the BR1B with a coal capacity of 7tons and water capacity of 4725 gallons. The final tender was the BR1F with a coal capacity of 7tons and water capacity of 5625 gallons. The only major modification to the standard design was the double chimney. This draughting improvement was designed by S.O.Ell at Swindon, the design was found to increase drawbar horsepower by nearly 200hp and also had significant savings in coal.

## Model Features

Currently represented by these models are the BR Standard 9f locos in the later years of their life. They feature minor modifications to the step arrangement on the front, below the smoke box door and a reposition lamp bracket. Also modelled are both live steam and exhaust steam injectors. Also represented are the only 2 named 9f locos, the very last steam loco built by British Railways, 92220 Evening Star and David Shepherd's preserved 9f 92203 Black Prince, which was named in preservation.

- Custom sound effects created by Tony Weber
- Random numbers and shed code switching by Eldavo
- Bluestar support for animated couplings
- User definable head codes and head code command support Paulhobbs
- Custom cab
- Cylinder drain cock effects
- Whistle effects
- Safety valve effects
- Twinkles smoke
- Animated water filler hatch
- Animated water scoop

# Locomotive and Tender names

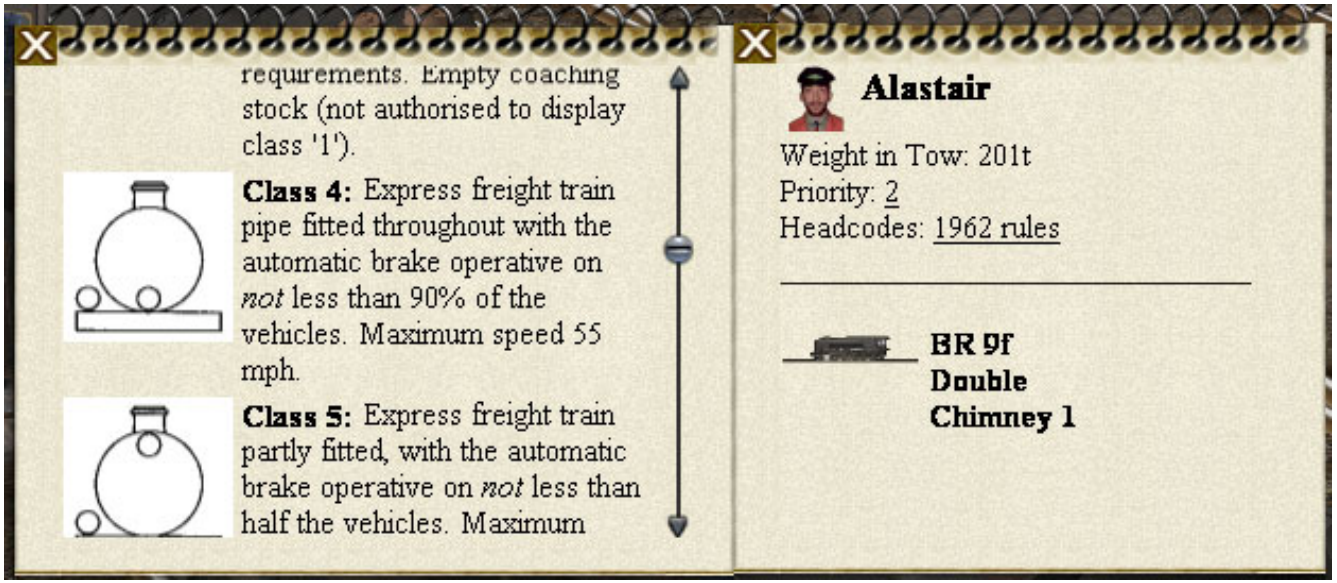
With the high number of locos and tender types available, a list of names and locations has been set out below. The list below shows categories and loco and tender names as found in game. The sorting categories are only available in TRS2004 although searching for the names works in both TRS2004 and TRS2006.

| | |
|---|---|
| BR 9f Black Prince | (British Railways > Standard Steam) |
| BR 9f Black Prince tender | (British Railways > Standard Steam) |
| BR 9f Evening Star | (British Railways > Standard Steam) |
| BR 9f Evening Star tender | (British Railways > Standard Steam) |
| BR 9f Single Chimney | (British Railways > Standard Steam) |
| BR 9f Double Chimney | (British Railways > Standard Steam) |
| BR 9f tender BR1B early logo | (British Railways > Standard Steam) |
| BR 9f tender BR1B late logo | (British Railways > Standard Steam) |
| BR 9f tender BR1C early logo | (British Railways > Standard Steam) |
| BR 9f tender BR1C late logo | (British Railways > Standard Steam) |
| BR 9f tender BR1F early logo | (British Railways > Standard Steam) |
| BR 9f tender BR1F late logo | (British Railways > Standard Steam) |
| BR 9f tender BR1G early logo | (British Railways > Standard Steam) |
| BR 9f tender BR1G late logo | (British Railways > Standard Steam) |

# Head codes

The BR Standard 9f range of locomotives use the Paul Hobbs head code system for user defined head codes, this section describes how to apply a head code to a loco. The same process is used to apply the head codes to the tenders of the locomotives.

Right click on the loco or tender and select “View Details” to open the locomotive/tender details window.

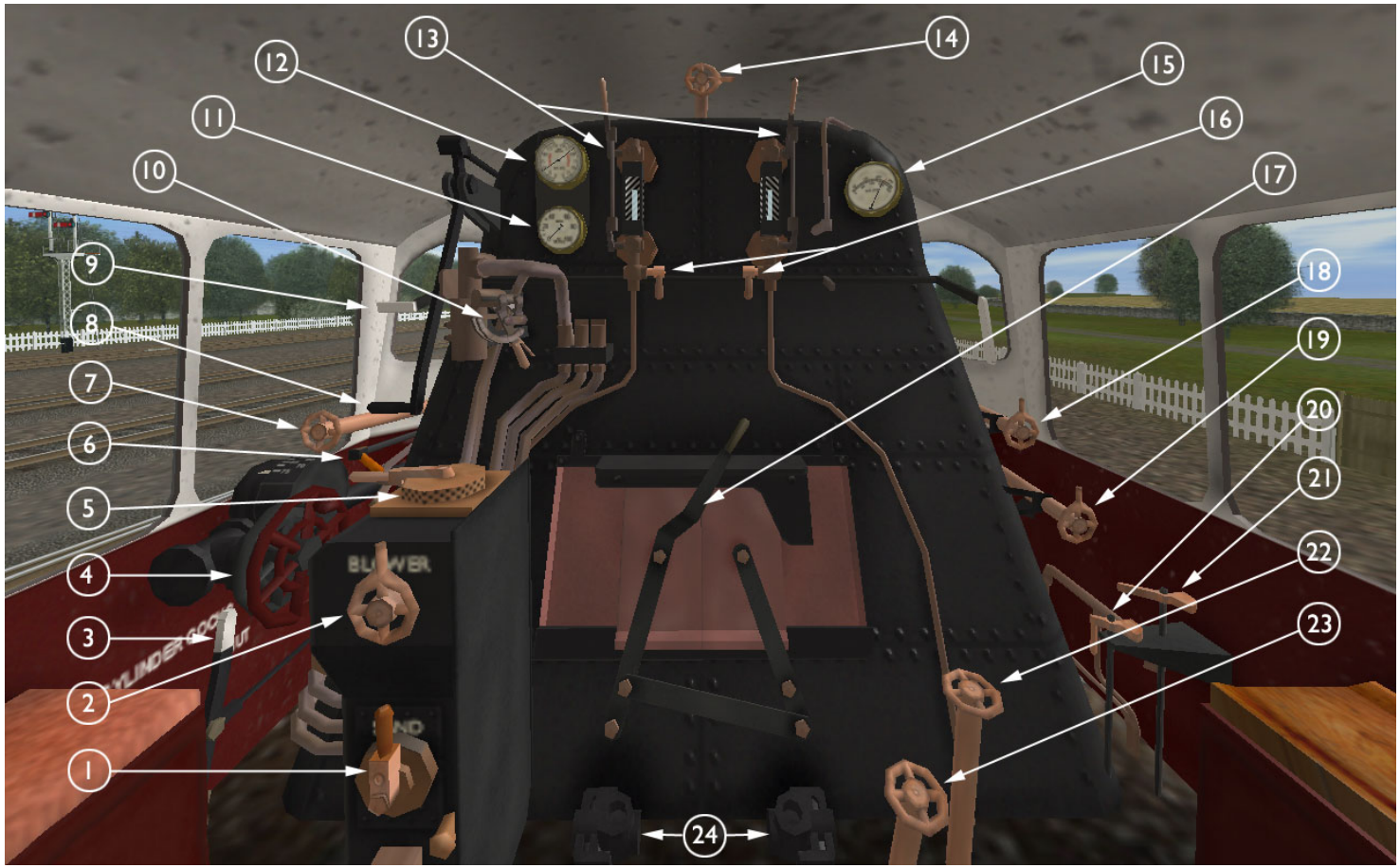



With the loco details window open left click on the “1962 rules” to open up the head code browser window. From the Head code browser window scroll through the options to find the head code that befits the class of train you are hauling. One you have found a head code that befits the class of train you are hauling left click on the picture to set the head code. To remove a head code or set the tail lamps the same process can be used.

The head codes can also be set using “Train Reporting Command” written by Bloodnok. For more information on installing and using this command visit [Rail-sim.co.uk](Rail-sim.co.uk)

# BR 9f Cab Layout

The BR Standard 9f locomotive comes with a complete accurately model cab. To help you find your way around this new locomotive, a diagram of all the cab controls has been produced below.



Controls listed in Bold perform a function in Trainz.

1) Sanding lever
**2) Blower valve**
3) Cylinder drain cock lever
**4) Reversing wheel**
**5) Vacuum brake handle**
6) Small exhaust steam ejector spindle
7) Large exhaust steam ejector spindle
**8) Regulator handle**
**9) Whistle**
**10) Driver's graduated steam brake**
**11) Speedometer**
**12) Vacuum gauge**
13) Water gauge shutoff levers
14) Steam manifold valve
**15) Boiler pressure gauge**
16) Water gauge drain cocks
17) Fire hole door
18) Live steam injector steam spindle
19) Exhaust steam injector steam spindle
**21) Live steam injector water spindle**
22) Rear damper control
23) Front damper control

# Locomotive numbers and shed codes

| Double Chimney | Shed | Year | Double Chimney | Shed | Year | Single Chimney | Shed | Year | Single Chimney | Shed | Year |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 92178 | 34E | 1958 | 92210 | 82F | 1962 | 92100 | 18A | 1959 | 92132 | 2E | 1965 |
| 92179 | 34E | 1957 | 92211 | 81A | 1959 | 92101 | 18A | 1956 | 92133 | 21A | 1957 |
| 92180 | 34E | 1957 | 92212 | 24L | 1966 | 92102 | 18A | 1956 | 92134 | 15C | 1964 |
| 92181 | 34E | 1957 | 92213 | 84C | 1959 | 92103 | 15C | 1958 | 92135 | 84J | 1966 |
| 92182 | 41J | 1965 | 92214 | 86E | 1964 | 92104 | 8C | 1964 | 92136 | 21A | 1957 |
| 92183 | 36A | 1965 | 92215 | 56A | 1966 | 92105 | 15C | 1964 | 92137 | 84J | 1966 |
| 92184 | 36C | 1959 | 92216 | 87A | 1963 | 92106 | 6C | 1965 | 92138 | 21A | 1957 |
| 92185 | 40B | 1964 | 92217 | 84E | 1963 | 92107 | 14A | 1956 | 92139 | 8C | 1966 |
| 92186 | 40E | 1963 | 92218 | 12A | 1967 | 92108 | 1A | 1964 | 92140 | 34E | 1957 |
| 92187 | 34F | 1958 | 92219 | 88B | 1962 | 92109 | 21A | 1957 | 92141 | 34E | 1957 |
| 92188 | 34F | 1958 | | | | 92110 | 15A | 1959 | 92142 | 34E | 1957 |
| 92189 | 41F | 1958 | | | | 92111 | 15A | 1959 | 92143 | 34E | 1957 |
| 92190 | 41F | 1958 | | | | 92112 | 15C | 1960 | 92144 | 40B | 1962 |
| 92191 | 41A | 1958 | | | | 92113 | 6F | 1961 | 92145 | 40B | 1965 |
| 92192 | 36A | 1658 | | | | 92114 | 17D | 1962 | 92146 | 41J | 1965 |
| 92193 | 36A | 1958 | | | | 92115 | 18B | 1956 | 92147 | 34E | 1957 |
| 92194 | 40B | 1959 | | | | 92116 | 18B | 1956 | 92148 | 41E | 1964 |
| 92195 | 41J | 1965 | | | | 92117 | 17D | 1962 | 92149 | 34E | 1957 |
| 92196 | 36A | 1958 | | | | 92118 | 21A | 1962 | 92150 | 56A | 1966 |
| 92197 | 36A | 1958 | | | | 92119 | 12A | 1967 | 92151 | 8C | 1966 |
| 92198 | 40E | 1963 | | | | 92120 | 16D | 1960 | 92152 | 21A | 1957 |
| 92199 | 40E | 1963 | | | | 92121 | 21A | 1957 | 92153 | 18B | 1963 |
| 92200 | 41J | 1965 | | | | 92122 | 6C | 1965 | 92154 | 16D | 1964 |
| 92201 | 40B | 1963 | | | | 92123 | 15A | 1957 | 92155 | 8C | 1966 |
| 92202 | 40B | 1959 | | | | 92124 | 15B | 1964 | 92156 | 18A | 1957 |
| 92203 | 82B | 1959 | | | | 92125 | 15B | 1960 | 92157 | 18A | 1957 |
| 92204 | 84E | 1963 | | | | 92126 | 8B | 1965 | 92158 | 18B | 1963 |
| 92205 | 50A | 1963 | | | | 92127 | 17D | 1963 | 92159 | 15A | 1958 |
| 92206 | 71A | 1961 | | | | 92128 | 18A | 1957 | 92160 | 24L | 1967 |
| 92207 | 86A | 1964 | | | | 92129 | 21A | 1961 | 92161 | 26A | 1958 |
| 92208 | 83D | 1959 | | | | 92130 | 12A | 1964 | 92162 | 26A | 1958 |
| 92209 | 86C | 1959 | | | | 92131 | 18B | 1960 | 92163 | 8B | 1965 |

| Shed codes | Location | Shed codes | Location |
|---|---|---|---|
| 1A | Willesden | 81A | Old Oak Common |
| 2E | Northampton | 81C | Southall |
| 6C | Birkenhead | 82B | Bristol St Philip Marsh |
| 6F | Bidston | 82D | Westbury |
| 8B | Warrington | 82E | Bristol Barrow Road |
| 8C | Speke Jnc | 82F | Bath Green Park |
| 12A | Carlisle Kingmoor | 83D | Laira |
| 14A | Cricklewood | 84C | Banbury |
| 15A | Wellingborough | 84E | Tysley |
| 15B | Kettering | 84J | Croes Newydd |
| 15C | Liecester Midland | 86A | Ebbw Jnc |
| 16D | Annesley | 86C | Cardiff Canton |
| 17D | Rowsley | 86E | Seven Tunnel Jnc |
| 18A | Toton | 87A | Neath |
| 18B | Westhouses | 88B | Cardiff East Dock |
| 21A | Saltley | | |
| 24L | Carnforth | | |
| 26A | Newton Heath | | |
| 34E | Peterborough | | |
| 34F | Grantham | | |
| 36A | Doncaster | | |
| 36C | Frodingham | | |
| 40B | Immingham | | |
| 40E | Colwick | | |
| 41A | Sheffield Darnall | | |
| 41E | Barrow Hill | | |
| 41F | Mexborough | | |
| 41J | Langwith Jnc | | |
| 50A | York | | |
| 56A | Wakefield | | |
| 70B | Feltham | | |
| 71A | Eastleigh | | |

# Loco and Tender Kuids

| | |
|---|---|
| <kuid2:101839:1031:1> | BR 9F Evening Star |
| <kuid2:101839:1032:1> | BR 9F Black Prince |
| <kuid2:101839:1033:1> | BR 9F Double Chimney |
| <kuid2:101839:1034:1> | BR 9F Single Chimney |
| <kuid2:101839:1036:1> | BR 9F Evening Star Tender |
| <kuid2:101839:1037:1> | BR 9F Black Prince tender |
| <kuid2:101839:1038:1> | BR 9F Tender BR1G Early Logo |
| <kuid2:101839:1039:1> | BR 9F Tender BR1C Early Logo |
| <kuid2:101839:1040:1> | BR 9F Tender BR1B Early Logo |
| <kuid2:101839:1041:1> | BR 9F Tender BR1F Early Logo |
| <kuid2:101839:1042:1> | BR 9F Tender BR1G Late Logo |
| <kuid2:101839:1043:1> | BR 9F Tender BR1C Late Logo |
| <kuid2:101839:1044:1> | BR 9F Tender BR1B Late Logo |
| <kuid2:101839:1045:1> | BR 9F Tender BR1F Late Logo |
| <kuid2:101839:50029:1> | 9f Pony Truck Dirty |
| <kuid2:101839:50028:1> | 9f Main Bogey Dirty |
| <kuid2:101839:50027:1> | 9f Dummy Bogey |
| <kuid2:101839:50025:1> | 9f Pony Truck Clean |
| <kuid2:101839:50024:1> | 9f Main Bogey Clean |
| <kuid2:101839:50026:1> | 9f Tender Bogey Clean |
| <kuid2:101839:50030:1> | 9f Tender Bogey Dirty |

| | |
|---|---|
| <kuid2:101839:51004:1> | 9f Single Chimney Engine spec |
| <kuid2:101839:51005:1> | 9f Double Chimney Engine spec |
| <kuid2:101839:40007:1> | 9f Shed Code Textures |
| <kuid2:101839:40003:1> | Smoke Effect Texture |
| <kuid2:101839:40008:1> | Smoke/Steam Effect3 Texture |
| <kuid2:101839:40002:1> | Steam Effect Texture |
| <kuid2:101839:40006:1> | Water Texture |
| <kuid2:101839:29:1> | BR Tender Scoop |
| <kuid2:101839:29:1> | BR Screw Link Coupled |
| <kuid2:101839:30:1> | BR Screw Link Un-Coupled |
| <kuid2:101839:31:1> | BR Vacuum Un-Coupled |
| <kuid2:101839:33:1> | BR Vacuum Coupled Low |
| <kuid2:101839:32:1> | BR Vacuum Coupled High |
| <kuid2:126323:53220:1> | 9f Engine Sound (by trw1089) |
| <kuid2:126323:54220:1> | 9f Whistle Sound (by trw1089) |
| <kuid:2512:13> | Air pipe (by Pikkabird) |
| <kuid:2512:14> | Air pipe (by Pikkabird) |
| <kuid:2512:5> | Bluestar Icon (by Pikkabird) |
| <kuid:44090:65> | Locomotive headlamp (by Paulhobbs) |
| <kuid:44090:4511> | 1962 head codes (by Paulhobbs) |
| <kuid:44090:111> | Steam loco driver (by Paulhobbs) |
| <kuid:44090:110> | Steam loco fireman (by Paulhobbs) |
| <kuid2:60850:89000:4> | Max Permitted Speed (by Bloodnok) |
| <kuid2:60850:88000:4> | Max Permitted Speed Icon (by Bloodnok) |

| | |
|---|---|
| <kuid2:75134:99001:12> | Chameleon Library (by Eldavo) |
| <kuid2:75134:99003:7> | Number It library (by Eldavo) |
| <kuid:-3:10004> | Water Product (built-in Auran asset) |

## BR Standard 9f Cab Kuids

| | |
|---|---|
| <kuid2:101839:52000:1> | BR Standard 9F Cab black |
| <kuid2:101839:52001:1> | BR Standard 9F Cab shell black |
| <kuid2:101839:52002:1> | 9f Blower handle |
| <kuid2:101839:52003:1> | 9f Exhaust steam ejector |
| <kuid2:101839:52004:1> | 9f Exhaust steam injector |
| <kuid2:101839:52005:1> | 9f Large handle |
| <kuid2:101839:52006:1> | 9f live steam injector |
| <kuid2:101839:52007:1> | 9f medium handle |
| <kuid2:101839:52008:1> | 9f_vac brake |
| <kuid2:101839:52009:1> | 9f_water gauge drain |
| <kuid2:101839:52010:1> | 9f cylinder drain cock lever1 |
| <kuid2:101839:52011:1> | 9f fire hole doors part1 |
| <kuid2:101839:52012:1> | 9f gauge frame shut off part1 |
| <kuid2:101839:52013:1> | 9f regulator part1 |
| <kuid2:101839:52014:1> | 9f reverser part1 |
| <kuid2:101839:52015:1> | 9f steam brake part1 |
| <kuid2:101839:52016:1> | 9f whistle |
| <kuid2:101839:52017:1> | 9f sanding lever |

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<kuid2:101839:52036:1> 9f gauge frame shut off part5
<kuid2:101839:52037:1> 9f gauge frame shut off part6
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<kuid2:101839:52040:1> BR Standard 9F Cab Shell Green No Body
<kuid2:101839:52041:1> BR Standard 9F Cab Green
<kuid2:101839:52042:1> BR Standard 9F Cab Black No Body
<kuid2:101839:52043:1> BR Standard 9F Cab Green No Body