

GWR Streamlined Railcar
O Gauge Model

Owner's manual

dapol

Authentic Scale Model

Contents

A history of the GWR Streamlined railcar	1
Specification:	2
Build lots	2
Unboxing	3
Accessory pack	3
Operation:	4
Running in / First use.....	4
DCC address.....	4
Factory decoder fitted.....	4
Maintenance	5
Lubrication.....	5
Fitting accessory items:	6
Installing a DCC decoder (DCC Ready).....	6
DC operation of lighting features.	8
DCC Factory Fitted models	8
DCC Sound Factory Fitted models	9
Body removal	12
Spare parts	13
Warranty	144
Warranty: How to claim	15
Warranty: Terms and conditions.....	16

History

Thank you for purchasing this Dapol product.

A history of the GWR Streamlined railcar

In 1933, the Great Western Railway introduced the first of a new series of diesel railcars, with regular use into the 1960s until ultimately replaced by newly designed British Rail "first generation" diesel multiple units. The original design featured streamlined bodywork containing many 'Art Deco' features internally. Known as 'Flying Bananas' from their rounded lines. Later "razor edge" locomotives had more utilitarian angular bodywork.

Intended to be operated as single railcars (indeed no buffers or coupling were fitted) for quick turnaround modern travel.

No. 1, first operated in December 1933, and was quickly followed by nos. 2 to 4, which were built with 44 seats and buffet. Being fitted with two engines (instead of one) allowed a maximum speed of 80 mph and from July 1934 offered a journey time of 2 hours, 20 on the Birmingham Snow Hill and Cardiff General service. They were more suited to cross country use and were the first long distance diesel express service in Britain.

Nos. 5 to 7, entered service in July 1935 with 70 seats (without buffet). **Numbers 8 to 16 were constructed in 1936. Cars 10,11 & 12 which were fitted with a toilet. This is the version that the Dapol model is based on**

Operating within the Western region, it was to be found on many branch lines, and express services between London, Oxford and Hereford, it also found long distance usage in the Birmingham and Cardiff areas.

A single example (W4W) is preserved.

Specification

Specification:

- Powerful under floor 5 pole motor
- Diecast metal chassis
- Diecast wheels
- Pickup from both bogies
- Brass bearings
- DCC Ready (21 pin)
- Single tool fitting DCC decoder and speaker.
- Body detailed to authentically represent operating number and operating period
- Highly detailed cab interior
- Fully detailed passenger compartment
- Posable luggage doors
- Moquette print on seating
- Removable valances (where appropriate)
- DCC and DC controlled lighting (DC via switches)
- Interchangeable tail lamp (where appropriate)
- Operating interior lighting
- Operating Reading lamps

Dapol are producing models from the following build lots (at the time of writing)

Date built	Lot number	Loco Numbers
1936	1547	8 & 10-12
1936	1546	9 & 13-16

Quick start

Please read this section before you go any further!

Quick start: *We know you would like to have your model running as quickly as possible; please spare a moment to read this section first.*

- Models fitted with optional DCC or DCC sound will operate on DC or DCC*
* When operating on DC, the sound fitted model will produce engine sounds automatically.

Icons used in this booklet:



Information: Hints and tips



Caution: Take care when performing this step



Warning: A risk of damage may exist

The model is packed in a polyfoam tray. Please unpack as below. *Please re-pack in the same way before sending for warranty or service*

Unboxing

Gently remove from polyfoam with finger holes provided


An accessory pack is supplied with your model containing the following items: (See *fitting of accessory items* for further detail)


- Certain models are supplied with lamps and lamp brackets.
- If the included lamps are fitted, please remove before replacing in the polyfoam tray


GWR Streamlined Railcar

Operation:


- 1. Running in / First use:** No special running in or initial lubrication is required; our 'new generation' locomotives have been designed with care to offer many years of service with minimal maintenance.

 Before operating your model, first run in both directions at a low-speed checking for correct operation using either DC or DCC power source

 A DCC or DCC sound fitted model will 'autodetect' and operate on both analogue (DC) and DCC layouts.

 **DCC address** is factory set to address #3.
The sound decoder fitted is a Zimo MX644C or a Dapol imperium for DCC fitted versions.


If operating a DCC fitted model on DC, please follow the DC operating procedure for your decoder.


 **Caution:** A Non-DCC fitted model will not operate on a DCC controlled track.


GWR Streamlined Railcar


Maintenance:

The model uses components which require little maintenance. We suggest that the drive train and gear box are lubricated after every 100 hours running using a light synthetic lubricating oil such as Dapoil or Locolube™

 **Warning:** Mineral oil types or thicker oils may damage your locomotive paint finish or components and invalidate your warranty.

 Remove any surplus or spilt oil immediately using a lint free cloth.

 Regularly check your model for build-up of dust of loose scenic material around moving parts.

 **Caution:** Do not over oil. Over oiling may damage paint finishes and/or cause build-up of dust.

If lubrication is desired, use a minimal amount of oil.

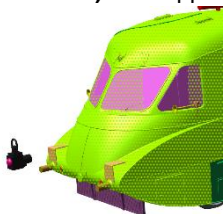
- Lubrication can be applied to axle and wheel bearings. Use only 1 small drop of oil on each point.
- Place 1 or 2 drops of oil on the worm gear, this will migrate through the gear train during operation.

GWR Streamlined Railcar

Fitting of accessory items:

The model is not fitted with, nor does it require couplings

Certain models (depending on prototype variations) are supplied with an interchangeable



front lamp in addition to the in-built lamp. This can be interchanged between ends with the lamp bracket supplied. Remember to remove the lamp prior to repacking in foam tray.

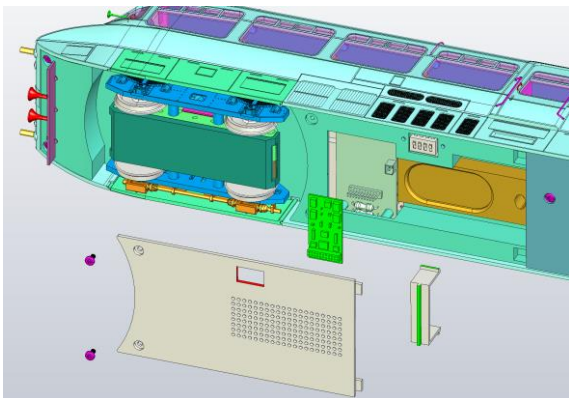
Installing a DCC decoder (DCC Ready)

Dapol recommend a Dapol Imperium decoder. The decoder requires six functions to fully operate the lighting :

- External lamps
- Interior saloon lighting
- Wall sconces

The decoder is fitted via the screw fastened 'hatch' on the base of the model.

GWR Streamlined Railcar



- 1) Remove the 2 screws fastening the hatch on the base of the model.
- 2) The hatch can then be removed by pivoting upwards from the screw end.
- 3) Remove the DC 'blinking plate' which is fitted to the model and
- 4) Replace with the decoder of your choice.

- **Sound decoder**

The sound decoder is fitted in a similar way to the regular DCC decoder, a speaker mounting location is provided. We recommend a bass reflex type.

- A clip is provided to retain the speaker in place.
- The speaker will require soldering to the PCB pads marked SP.

 **Incorrect speaker selection may result in damage to the decoder.**

GWR Streamlined Railcar

DC operation of lighting features.

A block of switches are located on the underside of the model. These will disable (turn off) various lighting features when in the OFF position:

- SW1 – Express lighting
- SW2 – Interior saloon lights
- SW3 – Interior wall sconces
- SW4 – Not used.

DCC Factory Fitted models: Are fitted with an imperium DCC decoder (address 3) to control the locomotive. The following function keys on your controller operates special functions.

F1	Express Lights
F2	Interior saloon lights
F3	Interior lighting sconces
F4	Not in use

GWR Streamlined Railcar Parts

DCC Sound Factory Fitted models

This model is pre-fitted with a Zimo sound decoder and speaker. Sounds are recorded as both manual and automatic sounds. Manual sounds are operated by the following keys on your DCC controller.

DCC manual functions		
F0	White marker lights (directional)	When ON, the white marker lights will be illuminated at the leading end of the Railcar together with the red tail lights at the trailing end.
F1	Start-up and shutdown	When turning ON and with the speed set to 0 the engine start-up is heard. On pressing F1 again (F1 OFF) and with the speed set to 0, the sound of the engine shutting down is heard.
F2	Single horn	A short high air horn will be heard.
F3	Single horn	A short low air horn will be heard.
F4	Guard's whistle	On pressing F5, the Guard's whistle is heard.
F5	Passenger sliding door open/close	When turned ON, the sliding passenger door opening will be heard. When turned OFF, the sound of the door closing will be heard.

GWR Streamlined Railcar

	Communication bells	On pressing F6 (F6 ON), the Guard-to-driver communication bell is heard. If pressed again (F6 OFF), the sound of the driver's response bell is heard.
F7	Brake application and release	When F7 is pressed, a brake application sound will be heard. Pressing F7 again (F7 OFF) 'releases' the brake. If 'RealDrive' is activated, the working brake will be applied (F7 ON) and released (F7 OFF). Note that if the working brake is left ON, the loco will not accelerate!!
F8	Flange squeal	On pressing F8, if the Railcar is moving, the sound of the wheel flanges squealing is heard.
F9	'Express' lights (directional)	When F9 is turned ON, if F0 is also ON, the 'Express' lights will be illuminated at the leading end of the Railcar.
F10	Saloon lights	When F10 is ON, the interior saloon lights are illuminated.
F11	Saloon reading lights	When F11 is on, the wall sconces are illuminated.
F12	Fade out/in	When F12 is pressed (F12 ON), all sounds will slowly fade to silence. This can be used to when the Railcar is going 'off-scene' or into a tunnel. When F12 is pressed again (F12 OFF), all sounds will slowly fade back to the previously set volume. This can be

GWR Streamlined Railcar

		used when the Railcar is arriving 'on-scene' or exiting a tunnel.
F13	Single electric horn	On pressing F13, the sound of a high electric horn will be heard.
F14	Single electric horn	On pressing F14, the sound of a low electric horn will be heard.
F15	Two-tone horns	Pressing F15 sounds high-low short air horns.
F16	Two-tone horns	Pressing F16 sounds low-high short air horns.
F17	Two-tone horns	Pressing F17 sounds high-low short electric horns.
F18	Two-tone horns	Pressing F18 sounds low-high short electric horns.

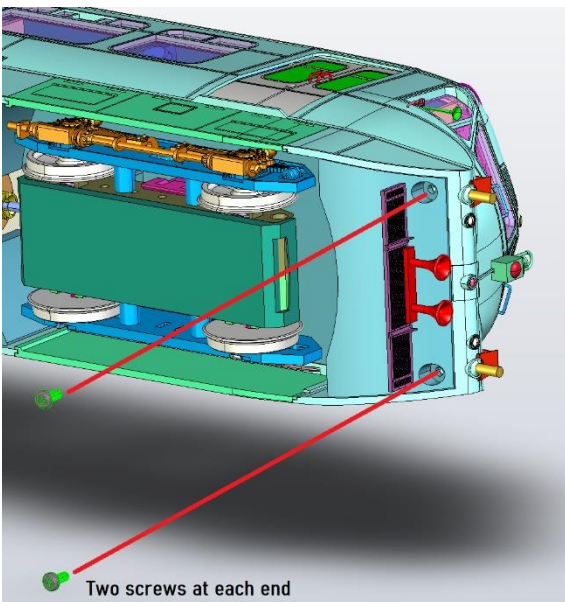
GWR Streamlined Railcar

Body removal

i Body removal is not required for DCC decoder or speaker installation.

⚠ Caution: Dapol do not recommend disassembly, care should be taken to avoid damage to delicate assemblies and detail parts.

1. Remove the 4 retaining screws (located at each end of the railcar, behind the oil cooler matrix).
2. The body will then lift away from the chassis.
3. Take care to avoid damage to the wiring when removing the body.



GWR Streamlined Railcar

Spare parts

At the time of release there is a comprehensive list of spare parts, which will include at least the parts below:

Please contact our spares and service agents DCC supplies Ltd. at dapolspares.dccsupplies.com

- Main PCB
- Lighting Boards
- Motor
- Power Bogie
- Dummy Bogie
- Side Valance
- Front Valance With Horns
- Drive Shaft
- Wheel Set
- Blanking Plug
- Roof Conduit
- Handrail Set Per Variation
- Windscreen Wiper
- Lamps Pairs Per Variation
- Bogie Detail Set
- Gearing Set
- Glazing Set
- Buffer Pair
- Front Step Pair

Manufacturer's warranty

Description: We want you to be completely satisfied with your purchase and obtain many years of pleasure from its operation. If you experience any problems with your model, we suggest that your first point of contact is your retailer; they will be able to advise on any teething problems and will use their experience to quickly solve many of your questions or concerns.

Your dealer is also the fastest way to exchange a model which is found to be missing components, accessories, or is otherwise defective after purchase. But we recognise that you may require more: If a replacement model is not available you may find a refund disappointing, or you may simply prefer to deal directly with Dapol. For these reasons, we offer a 12-month manufacturer's repair warranty on this product in addition to your statutory rights.



Our Manufacturer's warranty in simple terms: If your model experiences a mechanical or electrical fault within one year of purchase, other than returning to the place of purchase, we offer you have the option of a free repair at our service agents which is (within the UK) also post free.

2nd year service (locomotives only). An option exists to have your locomotive serviced by our authorised agent (a service fee is payable). Simply contact our agent and you will be advised of the current cost and given a freepost address. The model will be serviced and returned with a validated warranty certificate for a second year of no-quibble warranty for your model.



Please note: Year 2 warranties cannot be issued more than 13 months after the original date of purchase.



VERY IMPORTANT: Please ensure that your dealer has supplied a proper printed receipt with your purchase. Without this, our service agents are unable to offer warranty service. Repairs will be charged at the prevailing rate. Your statutory rights with the place of purchase are unaffected.

How to claim:

- Locate the proof of purchase (copies acceptable)
- Year 2 claims: Return with validated 2nd year certificate (or service fee if within 13 months of purchase).
- Contact our service agent for a Job ID number.
- Write the Job ID number on the outside of the package, and enclose your name, contact information, proof of purchase and if applicable your year 2 certificate.
- When posting, ensure that you obtain proof of posting and the model is adequately packed. If you require proof of delivery or insurance, you will need to purchase the additional service (at your cost) from your post office.

What happens next? If you have supplied an email address, receipt will be acknowledged, you will be advised when work commences and is completed. They will contact you in case of unforeseen difficulties during repair. Using your email address, you can use the online enquiry system to check the status of your model at any time via the internet.

If you have not supplied an email address, your model will be repaired and returned, you will only be contacted in case of a problem. You may of course contact our agent (quoting the job ID) at any time. What happens when the warranty expires? Our service agent offers a comprehensive repair service at reasonable cost. Alternatively, a comprehensive

range of spare parts is available for purchase.

The small print! (Terms and conditions) We intend this 'No Quibble' warranty to be a simple and fair addition to your statutory rights, however, some situations simply cannot be covered as they are outside of our control. We've listed these below.



We're reasonable folks, so if in doubt, please contact either our customer service or service agents for advice on your situation and we'll suggest the best course of action.

Terms and conditions:

1. Only Dapol models packaged with this warranty or marked with a 'W' are covered under this scheme.
2. This manufacturer's warranty is in addition to your existing statutory rights and offers a repair service for your model. Requests for outright refund or replacement should be directed to the place of purchase.
3. In the event the model cannot be repaired, at Dapol's sole option, you may be offered: a new replacement model (subject to availability), a refund voucher (for exchange at the place of purchase) or the return of the model in an unrepaired condition.
4. On issuance of a replacement model or refund voucher the original model and all associated accessories shall become the property of Dapol Ltd.
5. The replacement or repair of a model shall not extend the original warranty period under any circumstance.
6. This warranty covers the model's electronics, chassis and mechanisms for manufacturing defect or premature failure. The following situations are not covered by this warranty:
 - a. Accidental damage
 - b. Missing accessories (i.e. accessory packs) – Please return to your dealer.
 - c. Over or under oiling, incorrect oil type (use a thin synthetic oil i.e. Dapoil, LocoLube™ or similar)
 - d. Fair wear and tear (unless deemed to be premature by Dapol or our service agent)

- e. Routine maintenance and/or faults due to presence of foreign bodies i.e. Replacement drive tyres, Dirty wheels, Pickups etc.
 - f. Mishandling: Inclusive of broken wires, dislocated driveshaft's, damaged valve gear. Broken detail parts.
 - g. Mechanical or electrical modification; inclusive of fitting of DCC to a non DCC ready model.
(Reasonable modifications inclusive of: Weathering, super detailing etc. are permitted, however any adverse effects of such modification shall invalidate the warranty.)
 - h. Unauthorised attempts to repair or modify the model.
7. This warranty is not transferable and is valid only for purchases made from authorised Dapol dealers when accompanied by a proof of purchase.
 8. This warranty does not cover: Used models, models purchased from private individuals or auction sites (unless a 'Buy It Now' purchase of a new model from an authorised dealer when supplied with supporting proof of purchase).
 9. Dapol and its agents shall be the sole arbiters as to the warranty status of the model and their decision is final.
 10. Whilst every effort will be made to protect such, Dapol and its agents shall not be liable for damage or alteration to any 'super detailing' or other aftermarket cosmetic, mechanical or electrical enhancements.
 11. Dapol and its agents shall not be held liable for damage caused to inadequately packaged models.
 12. Dapol and its agents shall not be held liable for models lost in the post unless a proof of posting can be supplied.
 13. All repairs will be repaired on a first in-first out basis, within a reasonable period after receipt by our agent. Unless agreed in writing by Dapol or its agent prior to receipt of the model time shall not be of the essence in any contract.
 14. All repairs and/or replacements are subject to availability.

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Email: sales@dapol.co.uk

Spares: dapolspares.dccsupplies.com