

GWR classes 48/58 14xx
O Gauge Model

Owner's manual

dapol

Authentic Scale Model

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Features of the model:

- 1) Compensated chassis
- 2) Die-cast chassis, footplate and con-rods
- 3) Metal drive tyres
- 4) Simulated motion detail
- 5) Dapol's 'No-tool' DCC and speaker fitting
- 6) 21-pin DCC socket (sound ready)
- 7) Firebox flicker
- 8) Highly detailed body with many type variations

Thank you for purchasing this Dapol model

Section A: All versions and quick start.

This section is applicable to all versions including those with factory fitted DCC and DCC sound.

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.*

- There is no accessory pack included with this model.

Icons used in this booklet:



Information: Hints and tips



Caution: Take care when performing this step



Warning: A risk of damage may exist



To install a DCC decoder refer to section A-4.

- The DCC ready version is shipped ready to run using DC or to accept an (optional) DCC decoder.
- Factory fitted DCC, Ref. Section B (Page 5)
- DCC decoder fitting instructions are in paragraph 4.

- 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, it is first run in both directions, at a low speed whilst checking for correct operation. This can be performed in either DC (or DCC after fitting a decoder – see section A-4)

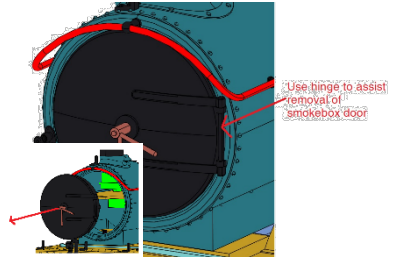
- 2. Coupling:** The model is provided with screw link coupling.
- 3. DCC Decoder and sound installations Notes:**

This model uses a new design which does not require any body removal to fit decoders or speakers. A pull-

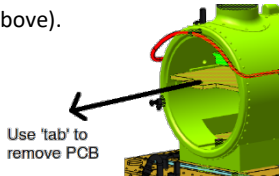
⚠ DO NOT use the smokebox dart to remove the door.

out PCB is fitted behind the removable smokebox door.

- 4. Removing the smokebox door:** The door is a push fit into the smokebox and can be removed by lifting by the hinge.



- 5. Fitting a DCC decoder:** A 21 pin decoder with a minimum of 2 functions is required. (4 or 6 function decoders may also be used). Regardless of type, fitting is the same.
- Remove smokebox door (above).
 - Pull out the PCB.
 - Once removed, the DC blanking plate will be found on the top side of the PCB, and speaker housings on the underside.
 - Remove the blanking plate by carefully pulling away from the PCB at the plug/socket end.
 - Fit the DCC decoder to the PCB socket.

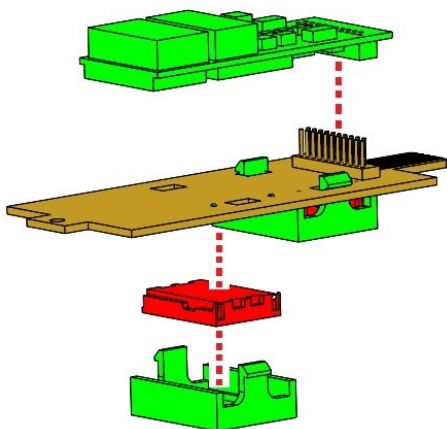


⚠ Take care to align the decoders 'blank' pin with the sockets 'missing' pin. Do not force. If in doubt, stop and re-check alignment.

- If you have not fitted a sound decoder then skip to section 5 to refit the PCB to the loco.

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6. **Fitting a DCC Sound decoder:** If not already fitted, then remove the pull-out PCB and fit your sound decoder (section 3 above)
 - a. Two speaker housings will be found on the underside of the model, these are a clip-fit to the PCB.
 - b. Remove the speaker housings and with the spring contact side uppermost, drop a 'sugar-cube' speaker into each housing.
 - c. Re-clip the speaker housings to the PCB.

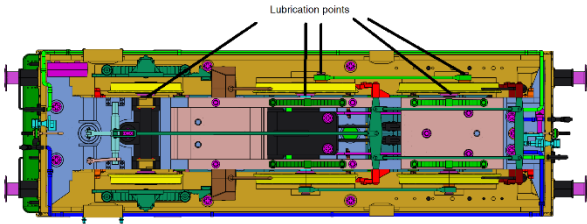


5. **Refitting the PCB to the loco:**
 - a. Hold the PCB so that the decoder is topmost
 - b. Locate the two guide rails inside the smokebox and slide the PCB between them.
 - c. Once a little resistance is felt, continue to gently push the PCB into the locomotive's motherboard socket.
 - d. The PCB is correctly fitted once solid resistance is felt.

e. The locomotive can now be test-run, and the smokebox door re-fitted.

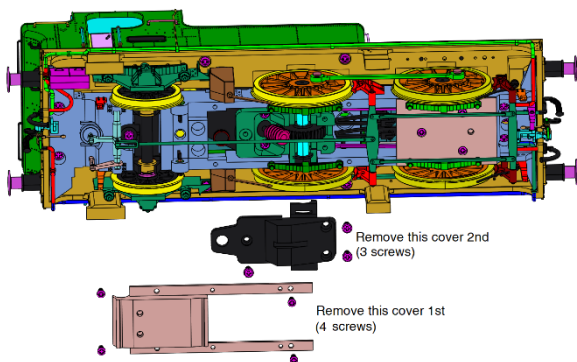
7. Maintenance: We have designed the model using components requiring little maintenance, however we suggest that after every 100 hours running a lubrication service is performed using a light synthetic lubricating oil such as Dapoil or Locolube™.

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



- Lubrication can be applied to axle bearings and con-rods without removing covers.
- To lubricate the worm gear, remove the two covers and screws (below).

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- Only 1 or 2 drops are required on the gear-train, this will migrate through the gear train during operation.
- Similarly, only 1 small drop of oil on the bearings.



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

- Remove any surplus or spilt oil immediately using a lint free cloth.
 - Regularly check your model for build-up of dust or loose scenic materials around moving parts.
8. **Spare parts:** Refer to Section C, pages 9 to 12 for exploded views and parts list.
 9. **Warranty:** Details can be found in Section D. Page 13.

Section B: Factory fitted DCC:

i **DCC address:** is factory set to address 3.
The decoder fitted is a Dapol Imperium 21 pin

Function key summary:

F1 Fire Box Flicker On/Off

Decoder Reset: Setting CV 8 to a value of 8 will reset the CV to default settings.

i **The decoder in your model has been factory programmed to operate in a prototypical fashion. A decoder reset will NOT delete these settings.**

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Section C: Factory fitted DCC sound:

i **DCC address:** is factory set to address 3.
The decoder fitted is a Zimo **MX659**

- Dapol's factory fitted sound contains both manual and automatic sounds.

Function key summary (Manual sounds):

F1 Sound fade in/out: Useful when loco is going 'on or off scene' or into / out of a tunnel.

F2 Short whistle

F3 Long and short whistle

F4 Coal shovelling: The sound of the firebox door being opened, followed by the firebox flicker effect operating. During this time the sound of shovelling coal will be heard. When F4 is turned off, the shovelling will stop and the firebox door will be heard to close, as the same time as the flicker extinguishes.

F5 Injector on/off: The injector is used when topping up the water level of the boiler.

F6 Steam ejector on/off: Used for creation of a vacuum and for blastpipe draft creation.

F7 Brake application/release: When first pressed the sound of a brake application will be heard, when pressed again (turned off) the sound of the brakes being released will be heard.

F8 Flange squeal on/off

F9 Light engine mode: with F9 ON lighter chuffs will be heard and the locomotive will accelerate and decelerate more readily. CV390 can be adjusted to change this 'inertia' effect. A factory value of 140 is set for this.

F10 Safety valve 'blow off'

F11 Westinghouse pump On/Off: Used to create air pressure for air braked examples.

F12 Manual draincocks: Additional to the automatic draincocks. Enables the sound of steam 'blast' from the cylinder drains to be triggered.

F13 Coupling sound: Sound of chain being dropped onto the hook.

F14 Guards whistle

F15 Coach door slam

Automatic sounds:

Brake squeal: This sound will be produced when the locomotive speed drops below a pre-set value, only whilst the locomotive is decelerating. The threshold value can be set using CV 287 and can be increased or decreased from the factory value of 20.























Chuff intensities: The locomotive can produce 3 intensities of exhaust 'chuff'. Heavy chuffs will be heard whilst accelerating, lighter ones when the target speed is reached. Upon deceleration, no chuffs will be heard. With F9 ON, even lighter chuffs will be produced, with more 'cut-off'.























Section D: Spare parts

Please note: There are several variations of each locomotive dependent on the locomotive 'era' and livery modelled. When ordering parts please quote the Dapol part number to ensure the correct part is supplied.

























This is not an exhaustive list. Please contact our service agent if the part you require is not shown.













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PART NO.	DESCRIPTION	JPG
D1702-A-01	BOILER	
D1702-B-01	CAB WITH TANK	
D1702-E-01	CAB_FRONT_WALL	
D1702-E-02	CAB_REAR_WALL	
D1702-E-03	CAB_ROOF	
D1702-E-04	COAL_BOX_SHUTTER	
D1702-E-05	CAB_DOOR_L	
D1702-E-06	CAB_DOOR_R	
D1702-E-07	COAL_PILE	
D1702-F-02	BATTERY_BOXES_COVER	
D1702-F-03	BATTERY_BOXES	
D1702-F-04	BOTTOM_COVER	
D1702-F-05	BACKHEAD	
D1702-F-06	DOME	
D1702-F-09	SMOKE_BOX_DOOR	
D1702-F-10	NUMBER_PLATE	
D1702-G-01	CAB_FRONT_WINDOW	
D1702-G-02	CAB_REAR_WINDOW	
D1702-H-01	GEAR_T32	
D1702-H-03	END_HANDRAIL_BASE_1	
D1702-H-04	END_HANDRAIL_BASE_2	
D1702-H-05	END_HANDRAIL_BASE_3	

PART NO.	DESCRIPTION	JPG
D1702-J-06	BRAKE_SHOE_LATE_FRONT_1	
D1702-J-07	BRAKE_SHOE_LATE_FRONT_2	
D1702-J-08	BRAKE_SHOE_LATE_LT_1	
D1702-J-09	BRAKE_SHOE_LATE_LT_2	
D1702-J-10	lamp_bracket_3	
D1702-J-11	SAND_BOX_2	
D1702-J-12	SAND_BOX_1	
D1702-J-13	SAND_BOX_COVER	
D1702-J-14	SANDING_BOX_PIPE_FRONT	
D1702-K-03	DRIVING_WHEEL_SPRING	
D1702-K-04	GUARD_IRON_REAR_END_2	
D1702-K-05	GUARD_IRON_REAR_END_1	
D1702-L-02	SIDE_ROD	
D1702-L-03	DRIVING_WHEEL_1	
D1702-L-04	DRIVING_WHEEL_2	
D1702-L-05	SMALL_WHEEL_SPOKE	
D1702-L-06	COUPLING	
D1702-L-07	COUPLING_HOOK	
D1702-L-08	CAB_SIDE_HANDLE	
D1702-M-04	TOOL_BOX	
D1702-M-06	LIFTING_HOOK	
D1702-M-07	LAMP_BRACKET_5	

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PART NO.	DESCRIPTION	Part
D1702-M-08	COAL_STEP	
D1702-M-09	STEP_TANK_FRONT	
D1702-N-03	CAB_ROOF_HANDRAIL	
D1701-07-10	LAMP_BRACKET_1	
D1701-07-11	LAMP_BRACKET_2	
D1701-07-14	TANK_FILLER	
D1701-07-17	TANK_VENT	
D1701-07-18	lamp_bracket_4	
D1701-08-01	AIR_HOSE	
D1701-08-05	SMOKE_BOX_DOOR_HANDLES	
D1701-08-06	STEAM_COCK	
D1701-08-11	VACUUM_PIPE_FRONT	
D1701-08-12	WHISTLE_NO_SHIELD	
D1701-08-14	WHISTLES_TALL	
D1701-08-15	WHISTLE_NO_SHIELD_TALL	
D1701-08-16	WHISTLE_NO_SHIELD_SHORT	
D1701-M010	COUPLING_HOOK_SPRING	
D1701-M011	BUFFER	
D1701-M019	ROD_SCREW	
D1701-M024	Coupling (set)	
D1701-M040	SCREW_PB2X7_HD3D6	
D1701-M041	SCREW_PM1D6X4_HD2D8	
D1701-M042	SCREW_PM2X4_HD3D5	
D1701-MOTOR	MOTOR, flywheel and worm	

PART NO.	DESCRIPTION	Part
D1702-M036	SAFELY_VALVE_COVER	
D1702-M005	CAB_SIDE_HANDLE_3	
D1702-M006	BACK_HANDLE	
D1702-M008	CAB_SIDE_HANDLE_2	
D1702-M010	CAB_REAR_HANDLE	
D1702-M038	SMOKE_STACK	
D1702-M011	WHEEL_BASE_SPRING	
D1702-M012	GEAR_BOX_SUPPORT_SPRING	
D1702-M018	NUMBER_PLATE_1	
D1702-PCB03	Firebox flicker PCB	
D1702-PCB02	Mother board	
D1703-PCB01	Pull-out PCB	

When ordering parts, please ensure you quote Dapol's part number or the locomotive running number/livery as parts and colours will vary between versions.

Additional parts are available, please check dapolspares.dccsupplies.com for full list.

Section E: 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. 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...

(Cont....) 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 model locomotives 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 locomotive 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 shall invalidate 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 faults due to foreign bodies i.e. Drive tyres, Dirty wheels, Pickups etc.
 - f. Mishandling: Inclusive of broken wires, dislocated driveshaft's, damaged valve gear.

- 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

Contact information:

Dapol Customer service
Telephone: 01691 774455
Email: sales@dapol.co.uk
Website: www.dapol.co.uk

Service and Spares Centre:

DCC Supplies Ltd.
Telephone: 01905 621999
Email: dapol@dccsupplies.com
Website: dapolspares.dccsupplies.com

Dapol Limited.

Unit 7 Gledrid Industrial Park, Chirk, Wrexham
LL14 5DG

Telephone: 01691 774455

Website: www.dapol.co.uk

Email: sales@dapol.co.uk

Spares: dapolspares.dccsupplies.com

Addendum:

If your chosen speaker does not include a gasket, a strip of self adhesive acoustic gaskets is provided to provide an airtight seal for the speakers. They will be found in the accessory pack. To benefit from the best sound, we advise attaching a gasket to the speaker face before installation as shown below.

Carefully bending the strip will reveal the pre-cut lines of the gaskets.



Remove centre from gasket, this maybe easier whilst attached to the strip.

Important: the centre (silver) part of the speaker must not touch the gasket.



Apply gasket to speaker
after discarding the centre

