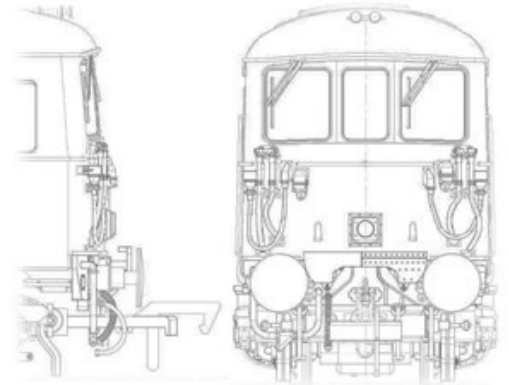


Dapol OO gauge class 73 (JA/JB) locomotive



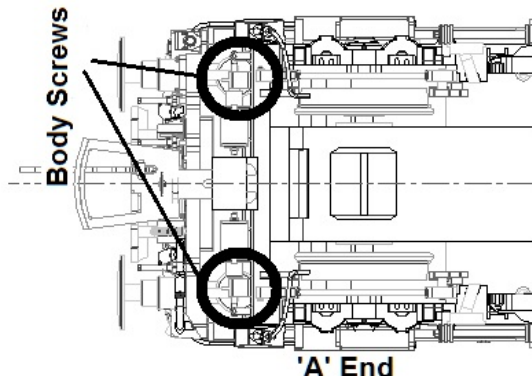
Running in / First use: We'd like to thank you for purchasing this Dapol product. This information sheet is applicable to all versions of this locomotive. No special running in or lubrication is required, as our 'new generation' locomotives have been designed with care to offer many years of service with minimal maintenance. However we suggest that before you operate your model for an extended time, you first operate it in both directions at a low speed whilst checking for correct operation. This operation can be performed in either DC or DCC (after fitting a decoder) Also, please check that you have the following items in within the packaging (in addition to this sheet).

- a) Dapol 'No Quibble' warranty sheet
- b) Class 73 (PCB V2)



2. Fitting accessories: The majority of detail parts have been factory fitted to your locomotive, however those which may interfere with the models couplings have been supplied separately. If you wish to fit these please use the diagram on the reverse as an aid to correct location:

3. Removing the body:



- a. There are 4 body retaining screws located in each 'corner' of the underside of the model as illustrated in the sketch to the left.
- b. The screws are Phillips headed screws, we recommend a OO sized driver of a sufficient length to fully engage the screw heads.
- c. It maybe necessary to rotate the bogie slightly to see these locations.
- d. The body will easily lift clear of the chassis once all screws are removed. There is no need to be concerned about wires, as a 'plugless' connector has been used which will separate when the body is removed without the need to unplug.

Fitting a DCC decoder: This model accepts a standard 21 pin NMRA DCC Decoder. Regardless of the decoder type (sound or non-sound), the basic fitting remains the same, however, if you are fitting a sound decoder instructions on installing a speaker are show as optional steps below.

- a. Remove body (section 3 above)
- b. Remove blanking plate
 - i. We suggest easing it gently and evenly on both sides, pulling is likely to result in bent pins!
- c. Insert decoder aligning the decoder keying pin with the 'missing' pin of the locos plug.
- d. Optional loudspeaker fitting information:
 - i. Install loudspeaker (DCC Supplies part 100673 100 ohm/100789 8 ohm/103543 4 ohm to suit your sound decoder)

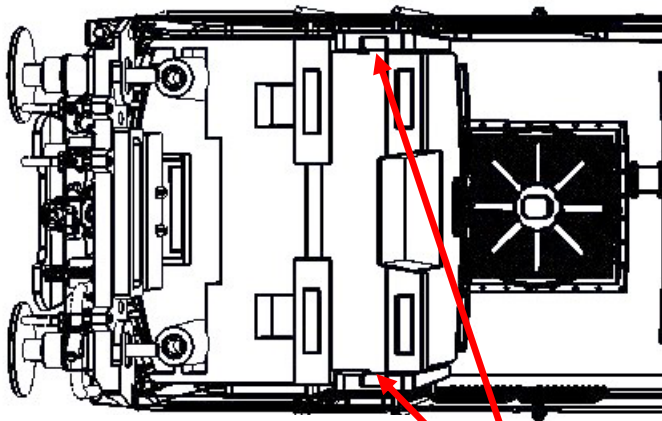
Maintenance: We have designed the model using components which require little maintenance, however we suggest that after every 100 hours running a lubrication service is performed using a light *synthetic* lubricating oil such as Dapoil or Locolube. Mineral oil types or thicker oils may damage your locomotive and/or invalidate your warranty. When applying lubrication only 1 or 2 drops are required on the gear-train, do not over oil.

Cab removal

You may wish to remove the cab of your model to change the headcodes or for fitting a crew: Your class 73 model is fitted with a pair of printed headcodes. The models design enable these codes to be replaced with minimal difficulty whilst retaining the authentic appearance of internal blinds. Spare clear headcode mounting plates are included in the accessory pack (and are available for purchase as a spare part). These can be used to construct a headcode of your choice using one of the various sets of headcode numbers available, or indeed, to produce your own,

We recommend the following tools: A number 0 or OO Phillips head screwdriver (to remove the body) a pair of thin, flat bladed tweezers, or a thin flat blade screw driver (to assist in removing the headcode assembly) and a clear flat workspace.

Remember, do not force any parts, they have been designed to be removed carefully, and without twisting or undue pressure.



1. First remove the body as described in the owners notes.
2. Once removed examine the underside of the body, the cab detail and bulkheads are clipped in position to the window moulding at the rear, on either side of the cab (Arrowed)

3. Carefully pull the body sides apart whilst easing the cab backwards and away from the locomotive roof. The entire cab assembly (easily recognised due to its colour) will slide up and out in one piece.

4. Once removed it will be possible to see the LED circuit board in the centre of the cab front (do not confuse with the roof mounted cab light)

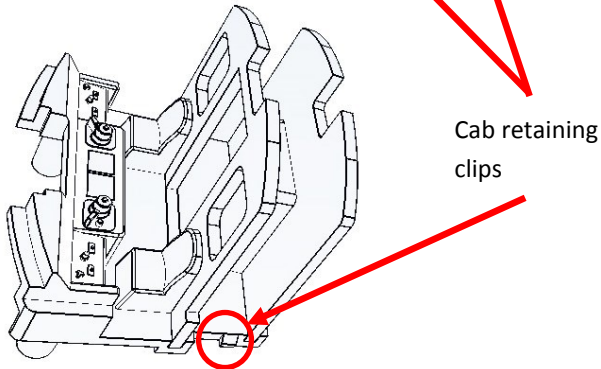
5. Using a thin, blunt tweezer blade or fine flat-bladed screwdriver the board will slide away from the cab front in the direction of the dotted arrow, N.B. It slides on a pair of clear dowels which are part of the window moulding—take care not to twist as you remove the board.

6. After the board a grey spacer will slide in the same direction.

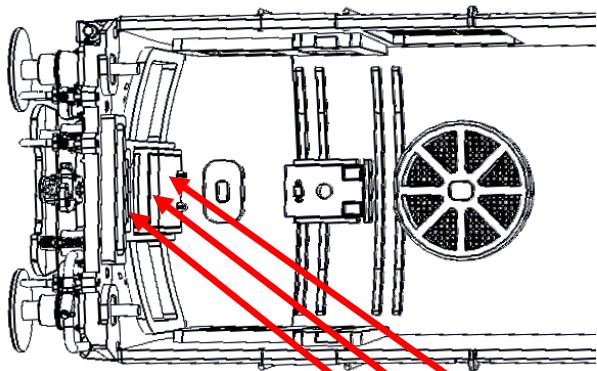
7. Finally, the route indicator can also be slid back-wards and removed.

8. You can then alter and/or replace this with a route code of your choice by using one of the spare, clear plates included in the accessory pack.

9. Re-assembly is a direct reversal of the above.



Cab retaining clips



Headcode LED Board

Spacer piece

Headcode mounting

Class 73 (PCB V2)

Prototype operation: The class 73 has no rear facing red lamps. A 'red' indication was added to the rear of prototype when required by the simple provision on the headcode blinds of a double red rectangle displayed in the rear headcode box. Front and rear headcode box illumination was controlled separately, from cab switches.

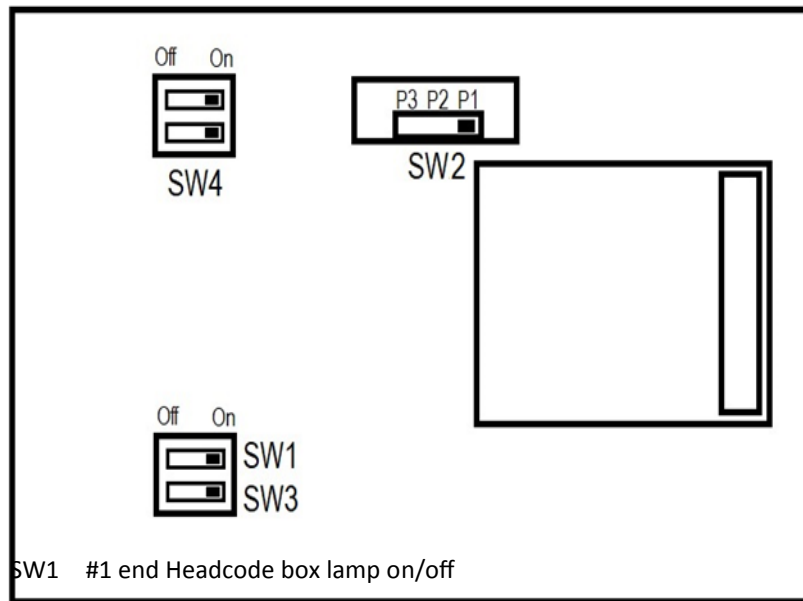
High intensity headlamps were added later in the types life. These were also controlled from the cab.

This release of the model uses a newly designed PCB which permits simulation of the various light settings. We have provided lighting control switches for DC and DCC users. DCC users have full control when using a 4 function 21 pin decoder. Factory fitted DCC models are pre-programmed to operate in a prototypical PUSH-PULL, and light engine modes (see DCC guide below for further information).

Factory default switch settings:

SW1 – ON, SW2 – P1, SW3 – ON, SW4 – ON.

DC Lighting control:



SW1 #1 end Headcode box lamp on/off

SW3 #2 end Headcode box lamp on/off

SW2 P1 Leading cab light on (directionally controlled)

P2 Both cab lights off

P3 Training cab light on (Directionally controlled)

SW4 Leading High intensity lamp (If fitted) ON/OFF (Directionally controlled) (N.B. Models fitted with a high intensity lamp require both switches of this block to be off to disable the H.I. Lamp entirely).

Due to the lack of rear red lamps, as with the prototype both front and rear headcode boxes are always 'on' unless over-ridden by switch settings (see below).

The PCB contains two blocks of small two position switches (SW1, SW3 & SW4) and a three-position switch (SW2). The switches control the lighting as follows:

DCC Users: Factory fitted DCC decoder are pre-programmed to operate the model in various modes (described below). If you are installing your own decoder (including Dapol Imperium decoders if purchased separately) the lighting is operated by the following decoder outputs:

N.B. Lighting control switches override functions

F0 (Flf & flr) Forward facing High Intensity lamp and Cab light. (Directionally controlled)

F1(Aux 1) #2 end Headcode box

F2(Aux 2) #2 end Headcode box

Switches operate as described in the separate DCC information sheet.

DCC Fitted and DCC sound fitted models:

Please refer to the separate information sheets supplied with the relevant model.

Warranty:

Please refer to the enclosed manufacturer's warranty sheet for service information and conditions.

Dapol Ltd.

Website: www.dapol.co.uk

Forum: digest.dapol.co.uk

Like us on Facebook

Telephone: 01691774455

Address:

Gledrid Industrial Park

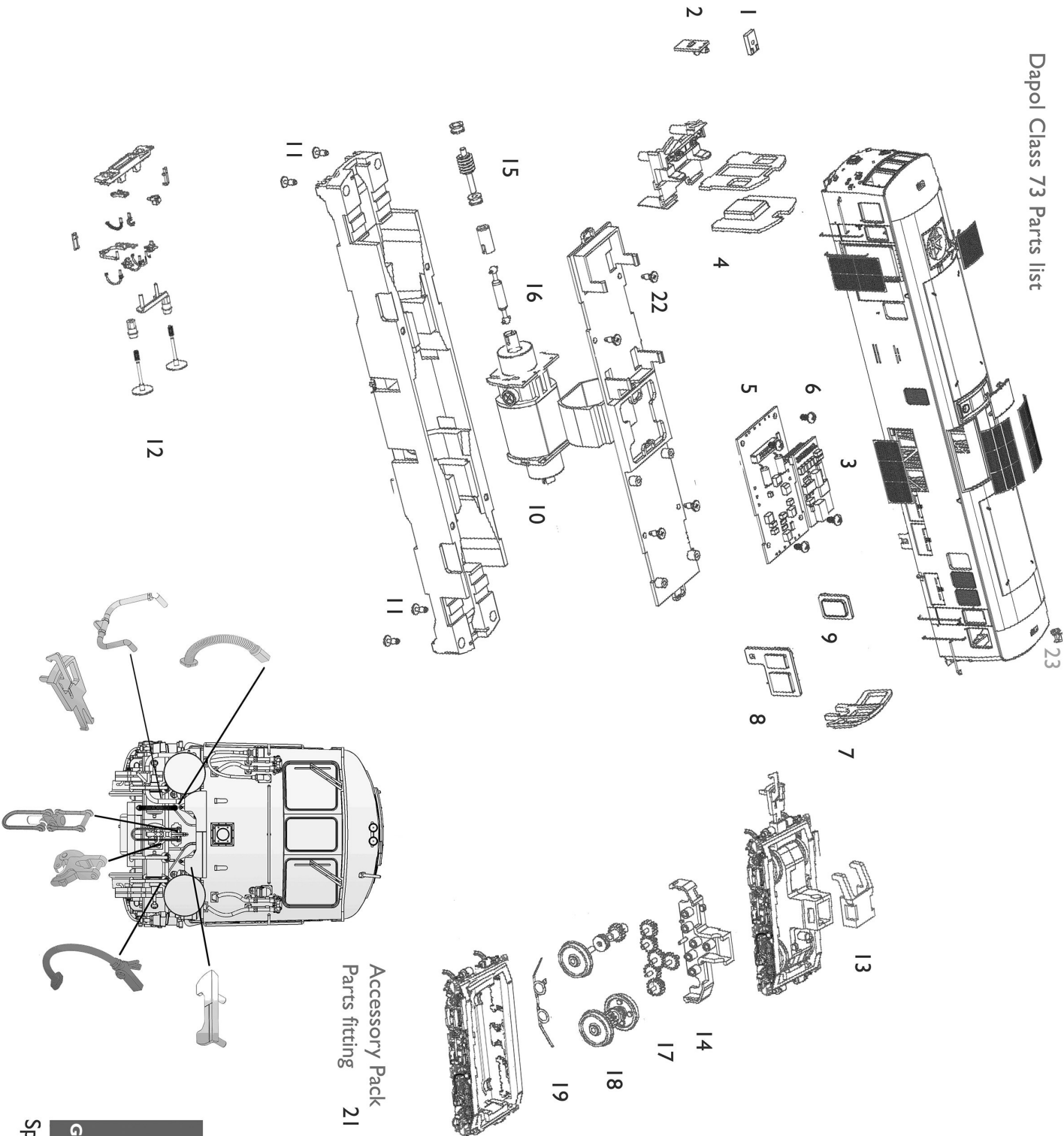
Chirk

Wrexham

LL14 5DG



Dapol Class 73 Parts list



Item	Part No.	Description
1	96716073001	Cab Light PCB
2	96716073002	Route code PCB
3	96716073003	DC Blanking plate
4	96716073004	Cab Assembly
5	96716073005	Motherboard
6	96716073006	Motherboard screws (4)
7	96716073007	Cab Window (Front)
8	96716073008	Cab Window (sides - Pair)
9	96716073009	Side windows (Pair)
10	96716073010	Motor assembly
11	96716073011	Body retaining screws (4)
12	96716073012	Buffer beam assembly & Buffers
13	96716073013	Bogie retaining clip
14	96716073014	Gear tower (pair - LH & RH)
15	96716073015	Worm Gear & Bearings
16	96716073016	Drive shaft (Pair)
17	96716073017	Gear set
18	96716073018	Axle set (Inc. Bearings)
19	96716073019	Pickup (Pair)
20	96716073020	Bogie Frame Assembly
21	96716073021	Accessory pack
22	96716073022	Deck screws
23	96716073023	Horns (Pair)
24	96716073024	Headcode panel (Transparent) Pair
25	96716073025	Headcode spacer


 Model Railway Company
 Gledrid Industrial Park Chirk Wrexham LL14 5DG
 01691 774455

Spare parts available from DCC Supplies Ltd
 01905 621999 www.dccsupplies.com

Dapol no quibble* 24 month repair warranty (Locomotive Models marked 'W')

We want you to be completely satisfied with your purchase and obtain many years of pleasure from its operation.

Occasionally things 'go bad' and so, in the event that you experience a problem with your Dapol locomotive, we suggest that your first point of contact is with your retailer; they will be able to assist and advise with any teething problems and will use their experience to solve many of your questions or concerns simply and quickly. 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.

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 Manufactures warranty in simple terms: If your model experiences a mechanical or electrical fault within one year of purchase, you have the option for a free repair at our service agents which is (within the UK), post free.

At the end of your first year of ownership, the option exists to have your locomotive serviced by our authorised agent (a service fee is payable). Simply book your model in with our agent and you will be advised of the cost and a freepost address. Send the model with your payment and it will be serviced and returned with a validated warranty certificate for a second year of no-quibble warranty for your model. *Please note that year 2 warranties cannot be issued more than 13 months after the date of purchase of your model.*

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 any service under the manufacturer's warranty and repairs will be charged at the prevailing rate. Your statutory rights with your place of purchase are unaffected.

How to claim:

Locate the proof of purchase (copies acceptable) for your model.

2nd year claims must be returned with a validated 2nd year certificate (or 2nd year service fee).

At your choice either:

Contact your dealer, and return your model to them (they will forward it to our agent).

Or

Contact our service agent directly (They will provide a returns reference number)

Write your returns number on the outside of the package, and enclose your name and contact information and proof of purchase.

When posting, please ensure that you obtain a proof of posting and it 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, our agent will acknowledge receipt, and subsequently will advise you when work commences and is completed. They will also contact you if there are any unforeseen difficulties during the repair process. 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 in due course, you will be contacted by phone in case of problems. You may of course contact us (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 they carry a comprehensive range of spare parts 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.

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

Dapol no quibble* 24 month repair warranty (Locomotive Models marked 'W')

Only Dapol model locomotives with the manufacturers 'W' mark are covered under this scheme.

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.

In the event the model cannot be repaired and subject to availability, at Dapol's option, a new replacement model maybe offered; alternatively you may opt for the return of the locomotive in an unrepaired condition

In the event repair or replacement is not possible, we reserve the right to issue a refund voucher. Alternatively you may opt for the return of the locomotive in an unrepaired condition.

On issuance of a replacement model or refund voucher the original model and associated accessories shall become the property of Dapol Ltd.

The replacement or repair of a model shall not extend the original warranty period under any circumstance.

The warranty covers the model's electronics, chassis and mechanisms for manufacturing defect or premature failure. The following situations are not covered by the warranty:

Accidental damage

Missing accessories (i.e. accessory packs) – Please return to your dealer.

Over or under oiling, incorrect oil type (use a thin synthetic oil i.e. Dapoil, LocoLube™ or similar)

Fair wear and tear (unless deemed to be premature by Dapol or our agent)

Routine maintenance, faults due to foreign bodies i.e. Drive tyres, Dirty wheels, Pickups etc.

Mishandling; inclusive of broken wires, dislocated driveshaft's, damaged valve gear.

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.)

Attempts to repair or modify the model shall invalidate the warranty.

This warranty is not transferable and is valid only for purchases from authorised Dapol dealers and when accompanied by a proof of purchase. Used models and/or models purchased from private individuals are not warranted. Purchases from auction sites are not warranted, (unless a 'Buy It Now' purchase of a new model from an authorised dealer supplied with supporting proof of purchase). Dapol and its agents shall be the sole arbiters as to the warranty status of the model and their decision is final.

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.

Dapol and its agents shall not be held liable for damage caused to inadequately packaged models.

Dapol and its agents shall not be held liable for models lost in the post unless a proof of posting can be supplied.

All repairs will be commenced on a first in-first out basis, within a reasonable period after receipt by the agent. Unless agreed in writing by Dapol or its agent, prior to receipt of the model, time shall not be of the essence in this contract.

All repairs and/or replacements are subject to availability.

Dapol Contact information: 01691 774455 sales@dapol.co.uk www.dapol.co.uk

Service Centre: DCC Supplies Ltd. 01905 621999 dapol@dccsupplies.com www.dccsupplies.com