

We'd like to thank you for purchasing this Dapol product. This owners guide is applicable to all versions of this locomotive.

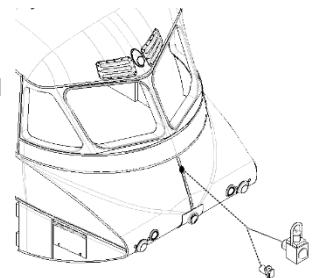
In addition to this sheet please check that you have the following items within the packaging.

- a) Dapol 'No Quibble' warranty sheet
- b) Accessory pack containing three lamps and lamp brackets (2 x spare)

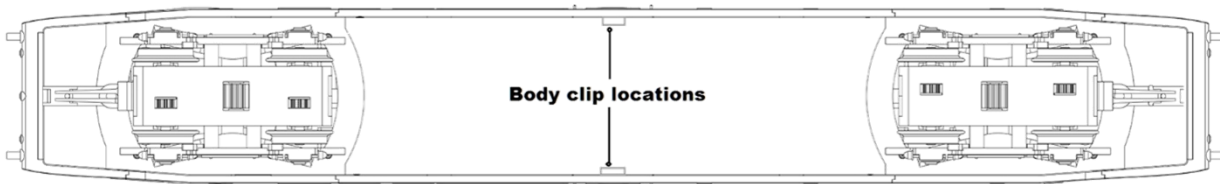
Quick start: This model can be controlled with either a 21 pin DCC decoder (fitting Ref: Section 5) or by DC operation (Ref: Section 4a. the model configured for DC operation). For factory fitted DCC operation please refer to section 4b. N.B. Factory fitted DCC models will operate on DC or DCC.

1. **Running in / First use:** No special running in or initial lubrication is required, our new generation models have been designed with care and appropriate materials to offer many years of service with minimal maintenance. However, we suggest that before you operate your model for an extended time, you first run it in both directions at a low speed whilst checking for correct operation. This operation can be performed using either DC or DCC (after fitment of a decoder – Ref: Section 5)

2. **Dummy lamp and lamp brackets:** Push fit dummy lamps and brackets are provided for use with later era models (those fitted with front steps). By fitting these either end can be chosen as the leading cab. Fit the dummy lamp bracket to the rear. Spare lamps and lamp brackets have been included in case of loss.



3. **Removing the body:** The body is held to the chassis by 2 clips located in the centre of the central doors.



- a. Holding over a flat surface gently pull the body apart at the indentations in the chassis.
- b. The chassis will drop away from the body.
- c. There is no need to be concerned about wires, as no electrical parts are attached to the bodysell.

4. **Lighting operation:** Depending on DC or DCC operation lighting features are controllable by switch or decoder.

a. DC/Analogue: Front and rear lights will operate directionally (single red at rear and dual white lamps at front). Additionally, four (numbered) switches are located on the lighting bar at the guard's end are provided to operate the following features and are accessible after removal of the bodysell (Ref: Section 3):

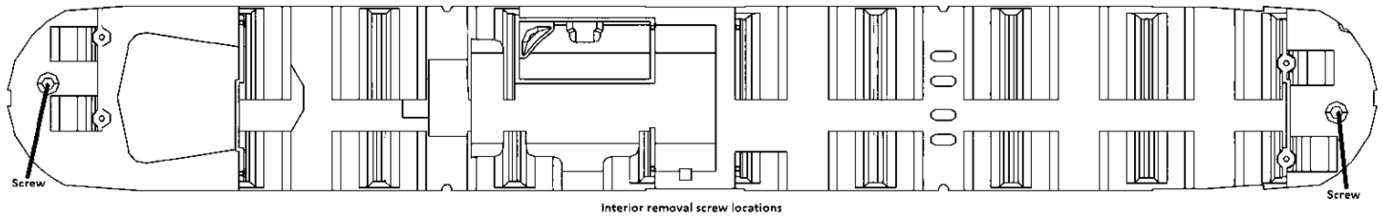
- Switch 1: White front running lamps (On/Off)
- Switch 2: Express mode (Lower buffer beam lamps and top centre lamp on, when off, only top centre map is on)
- Switch 3: Rear Cab light (On when leading or Off)
- Switch 4: Interior lights (On/OFF)

To adjust the switches, use a fine bladed cross head screwdriver or similar tool to move the switch. Do not use a pencil as the 'lead' is conductive and may break leading to short circuits.

b. DCC: After fitting a DCC decoder (unless factory fitted) lighting features can be controlled remotely via your DCC handset (If not factory fitted DCC, functions listed will be dependent upon the configuration of your chosen decoder)

- F0 Front/Rear directional running lamps (On/Off)
- F1 Leading cab light (On when leading or Off)
- F2 Interior lights (On/Off)

- 5. Fitting a DCC decoder:** This model accepts a standard **21 pin NMRA DCC Decoder with a minimum of 3 functions.** Regardless of the decoder type, the basic fitting remains the same, however, if you are fitting a sound decoder, instructions on installing a speaker are shown as optional steps below.
- Remove body (section 3 above)
 - Remove the single screw located in the floor at each end.



- Carefully lift the interior assembly from the chassis, *avoiding placing any stress on the connecting wiring.*
 - The DCC decoder connection and the speaker aperture will be seen next to the motor.
 - Remove DC blanking plate (We suggest easing it gently and evenly upwards alternately on both sides, pulling is likely to result in bent pins!)
 - Insert decoder, aligning the decoder key pin with the 'missing' pin of the locos plug.
 - Optionally install loudspeaker of maximum dimensions 17mm x 26mm with suitable impedance to suit your sound decoder) by soldering its wires to the marked areas of the PCB (Marked LS + and LS-, located on the bottom right corner of the PCB).
- 6. Maintenance:** The model is designed using components which require little maintenance, however we suggest that after every 100 hours running a light 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.* At the same time check the wheels for dirt and clean if required.
- 7. Spare parts:** A range of spare parts are available from DCC Supplies (01905 621999 www.dccsupplies.com).