**OVERVIEW**

The model does not need lubricating before use. The model operates on normal 12v DC power. For DCC operation please refer to the section 'DCC operation'. The model uses a simple 'Push Button' ON / OFF switch positioned on the top of the body. Please refer to diagram A. The model has an on-board motor which operates the cleaning functions. The motor does not provide any motive power and the model needs to be coupled to the locomotive of your choice for traveling the track.

The model is supplied with:

(i) fine abrasive heads (ii) vacuum fan (iii) polishing heads (iv) foam pads for liquid (v) track brushes

Items (i) and (iii) are fitted and removed by simply pushing / pulling the item using light finger pressure. Both parts connect to the motor via a small spindle which is visible inside of the cavity in each model. Each item has a coiled spring which allows the heads to touch the track for the cleaning and polishing operations. Please ensure that the heads are loose and free-moving and not pushed solidly inside of the body. Item (ii) is pushed into place with finger pressure but has to be removed by using the special tool. Please refer to diagrams B and C. Items (i) and (iii) comprise 3 separate parts (head + spring + shaft). The parts simply clip together. If, during removal the shaft pulls away from the head, this is not a fault. It is a safety measure to ensure the metal spindle is not damaged. Simply push the parts together.

Item (iv) is fitted with finger pressure and item (v) is changed by removing the visible screw.

**PROCESS OF OPERATION**

1: Fit and use the abrasive head (i). This removes dirt from the top of the rails.
2: Fit and use the vacuum fan (ii). This removes dust from the track area and places it inside of the on-board 'bin'. To empty the dust, remove the loose mesh top cover and turn the whole track cleaning car upside down allowing any dust to fall away.

*NOTE* When fitting the vacuum fan the blades of the head are positioned INSIDE of the body.
3: Fit and use the polishing heads. As more power is applied to the track your locomotive will start to move and the motor of the track cleaner will spin faster.

**DCC OPERATION**

The track cleaner is fitted with an on-board 8-pin PCB. For removal of the cover and fitting of the chip, please refer to the various diagrams. The PCB is pre-fitted with a DC 'blanking' chip. This chip is removed by carefully pulling it away from the PCB. You can then fit the DCC 8-pin chip of your choice and program as needed. Please remember that the Track Cleaner MUST be given a different address than the towing locomotive. If you failed to do this then you may inadvertently apply more than 9v (see note below).

*NOTE* We have manufactured the model with two integrated safety measures: (1) If more than 9v is applied to the cleaner, (only possible with DCC operation) the solder that connects the pick-up springs to the bogies will melt and the connection will be broken, thus avoiding damage to the motor. Replacement springs are available from Dapol should this happen. (2) If the motor over-spins, there is an integral safety cut-off on the PCB and which takes 4-5 minutes to automatically re-set. If the safety cut-off happens (i.e. your cleaner suddenly stops and then later re-starts) it is not a fault with the product and you will know that a reduction in operating power is needed. We also suggest that you also check the condition of the springs at that time.

**CAUTION** Please check that any track cleaning fluid is 'Plastic Friendly' and does not damage the bodywork. Do NOT use any Inflammable, Spirit or Petroleum based fluid with this model.

**IMPORTANT** Do NOT run this Track Cleaner on either AC-powered or DCC-powered track with the original DC 'Blanking Chip' fitted. The unit will be damaged and will invalidate the warranty. Only run the Track Cleaner on DCC track when the appropriate 8-pin DCC chip has been installed.

Dapol recommend that the abrasive head is only used occasionally. The polishing head should be used as needed and depending upon the actual use and environmental conditions of the layout area. Spare heads are supplied with the model and additional packs are available from your local stockist. Please refer to the product codes written lower down.

**OPERATION**

Fit the head of your choice. Place the model onto the track and couple it to your locomotive. Push the switch once to activate the electric connection. Apply power to your locomotive via your controller. The motor in the track cleaner will start to operate. As more power is applied to the track your locomotive will start to move and the motor of the track cleaner will spin faster.

The power applied to the track will be split equally between the locomotive and the track cleaner. Please remember that the motor does not have to spin quickly for cleaning or polishing to be successful. Better to have a slow thorough operation once than a fast operation twice.

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Please read before operating unit