



GFT01-10011587
TT3005M-53-042

Class A1/A3/A4

4-6-2 Steam Locomotive and Tender

DCC Ready / DCC Fitted

Operating and Maintenance Instructions

General

Please read right through these instructions, particularly the **Safety Notes on Page 8**.

Hornby locomotives are precision built and, if treated with care, will give many years of good service. Care should be taken to avoid damage when handling the model.

This locomotive should not be operated on track curves of less than 310mm radius, which is Hornby 2nd radius track.

The electric motor of the locomotive is designed to be operated from a variable 12 volts, DC power supply only. This should be obtained by using a suitable Power Controller operated from the normal domestic mains electric supply.

NEVER CONNECT A LOCOMOTIVE DIRECTLY TO THE MAINS ELECTRICITY SUPPLY.

The locomotive will normally draw a current of between -2 and -4 amp depending upon the track configuration and whether or not gradients are included. There will be a current surge on starting the locomotive.

Running Hints

If a locomotive ceases to respond normally to the power controller, or runs badly, check that the following are in order:

- All electrical connections are correctly made and the wall power socket is switched on.
- The power connecting clip is correctly fitted together and all fishplates (rail-joiners) are fitting tightly onto adjoining metal rails.
- All locomotive wheels are correctly positioned on the track rails.
- The direction control switch on the train controller is set to operate in one direction or the other, and not in the central 'OFF' position.

Routine Maintenance

Track Cleaning - In normal use, model railway layouts will eventually accumulate a blackish deposit on the running surfaces of the rails, and some of this will be transferred onto the locomotive's pick-up wheels.

The 12 volt DC supply is collected from the track through the wheels on one side of the locomotive and returned through the wheels on the other side. If the deposit is allowed to build up, it will have the following adverse effects:

- The driving wheels will not be able to achieve maximum traction.
- There will be a reduction in the power reaching the locomotive motor.

It is therefore essential that the track, and wheels, are kept clean. This can be done by wiping the surfaces with a clean, lint-free cloth.

Motor - The locomotive is fitted with a sealed, long-life motor which requires no maintenance. After a considerable amount of use the motor may require replacement and this should be carried out by a Hornby Service Dealer

Chassis - The locomotive chassis may, from time to time, pick up some fluff, fabric fibres and pet hairs which can become entangled in the gears and around axles. For this reason, it is not advisable to run the locomotive on track which is laid on a carpet. It is important to check regularly and remove any such debris with the aid of small tweezers.

Lubrication - Although the locomotive was lubricated during manufacture, the lubricant can sometimes dry out in storage. Lubrication should be carried out at approximately 6-month intervals, or every 100 hours of running.

1 Lubrication

We recommend this model is given a running in period of at least 30 minutes in each direction at half speed. This locomotive is supplied pre-lubricated, depending on the frequency of use, the locomotive will require additional lubrication on a regular basis. We recommend lubricating the locomotive after long periods of storage or 100 hours of running. If the driving wheel axles or moving parts of the connecting rods seem to have dried out, apply small drops of light machine oil to the places indicated in Figs. 1 & 2.

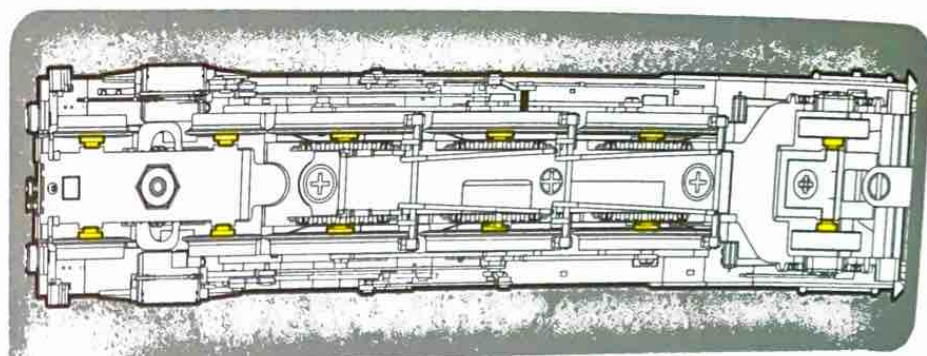


Fig. 1

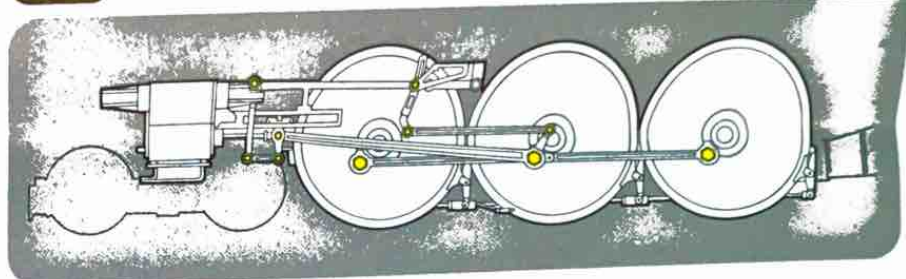


Fig. 2

2 Accessories

In the accessory bag supplied with your Class A1/A3/A4, you will find:

- 1 - Vac Pipe Front
- 2 - Vac Pipe Rear

- 3 - Drain Cocks x2
- 4 - Chain

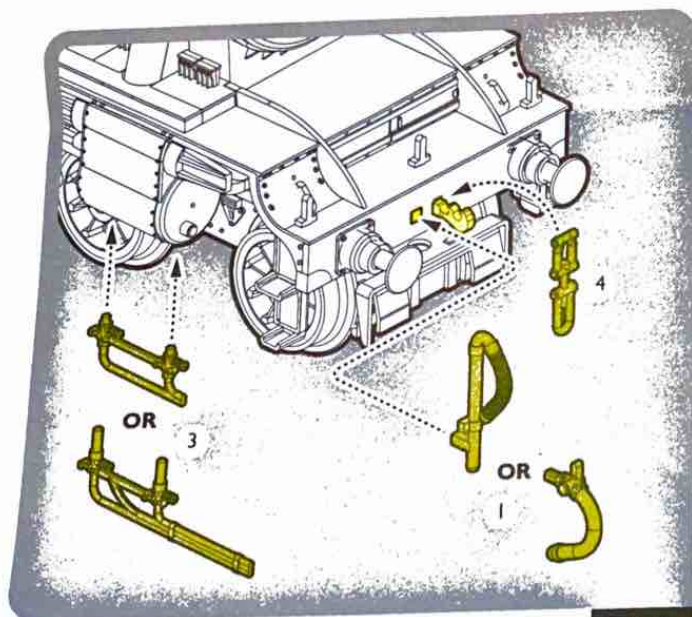


Fig. 3

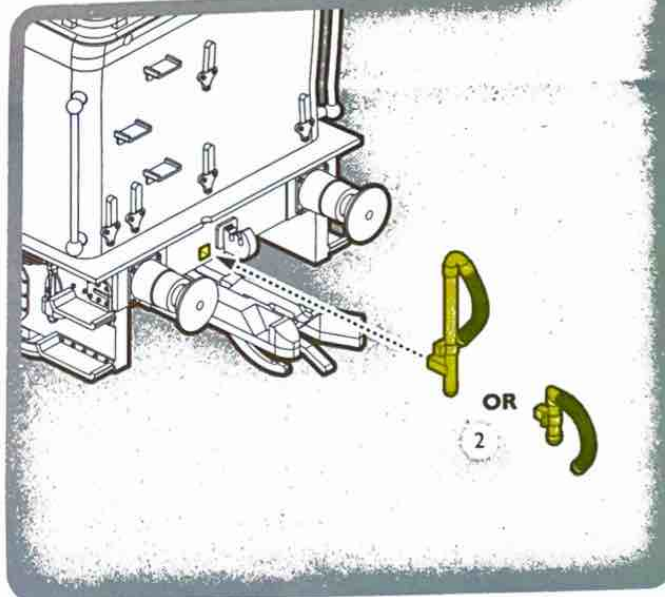


Fig. 4

3 Assembly

Your locomotive includes a "Plug-In" connection between the locomotive and tender, remove the plug, taking care that the wires are not stressed during this operation, see Fig. 7. When reconnecting, note that the plug can only be located one way round.

Hornby recommend the use of tool X6468 to remove/assemble the plug into the socket. Available through the Hornby Service department.

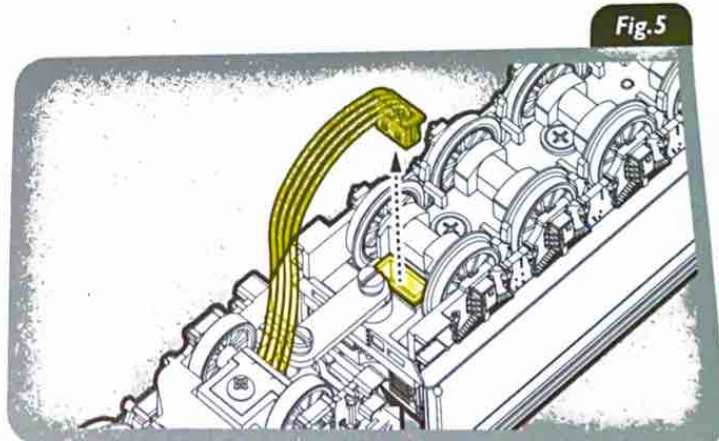


Fig. 5

4 Locomotive Body removal

To gain access to the inside of your model, remove the three screws as shown in Figs.6. The body will then lift away, removing the next three screws shown in Fig.7, will allow access to the gears and motor for lubrication.

Fig.7

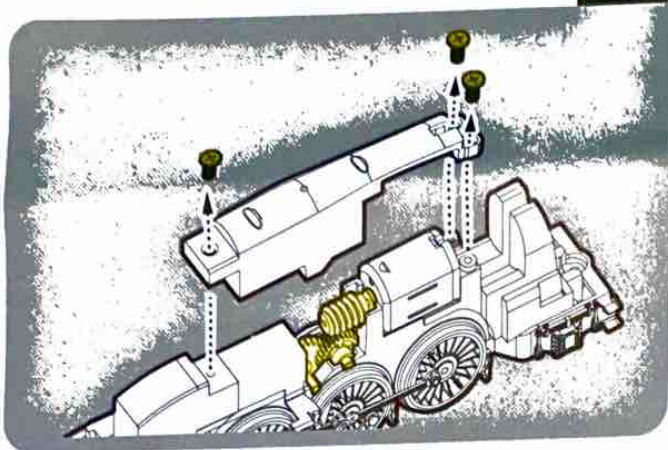
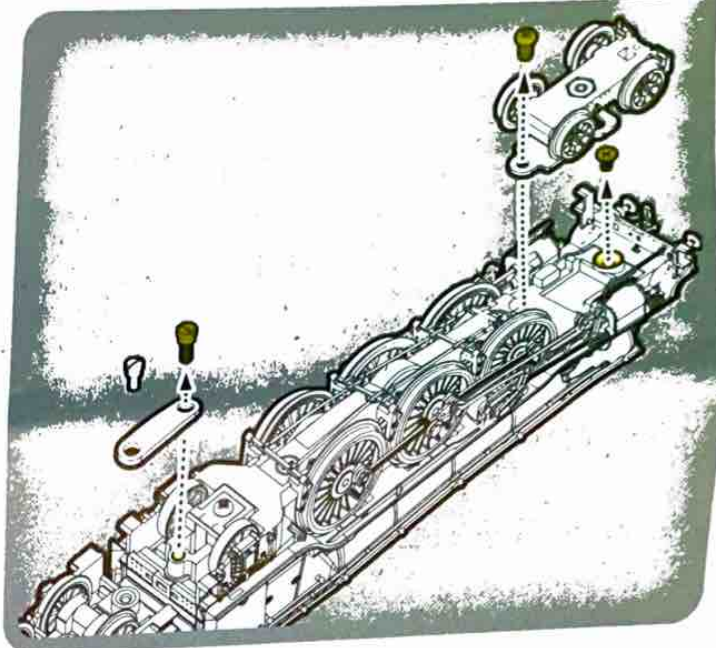


Fig.6



5 DCC Decoder & Sound Fitting

To fit a Next18 decoder into your locomotive, remove the 2 assembly screws in the tender as per Fig.8. Ease the body away from the chassis by lifting the back end, to disengage the clip at the front, as per Fig.9.

Remove the Next18 blanking plug from the PCB and replace with a Next18 locomotive decoder as per Fig.10. (Next18 locomotive decoder sold separately)

Fig.9

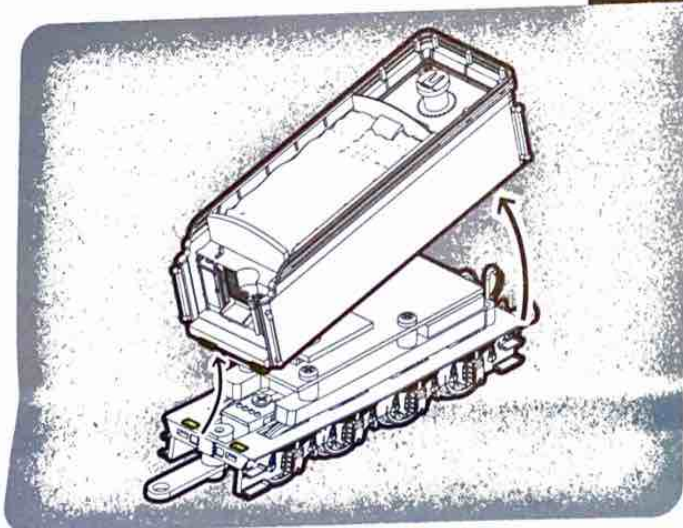


Fig.8

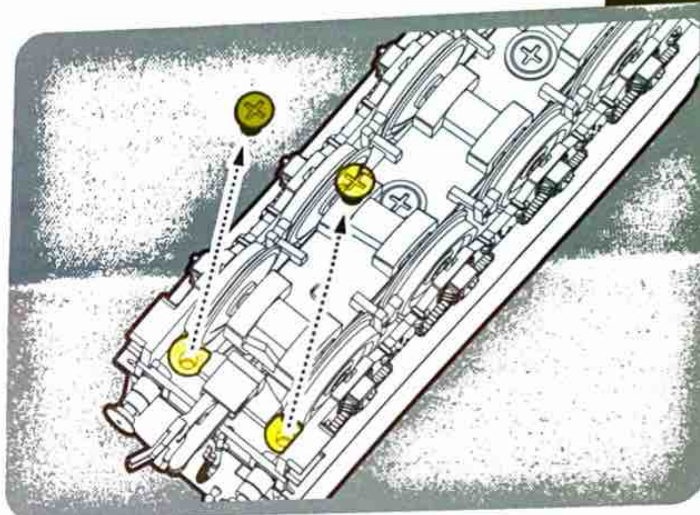
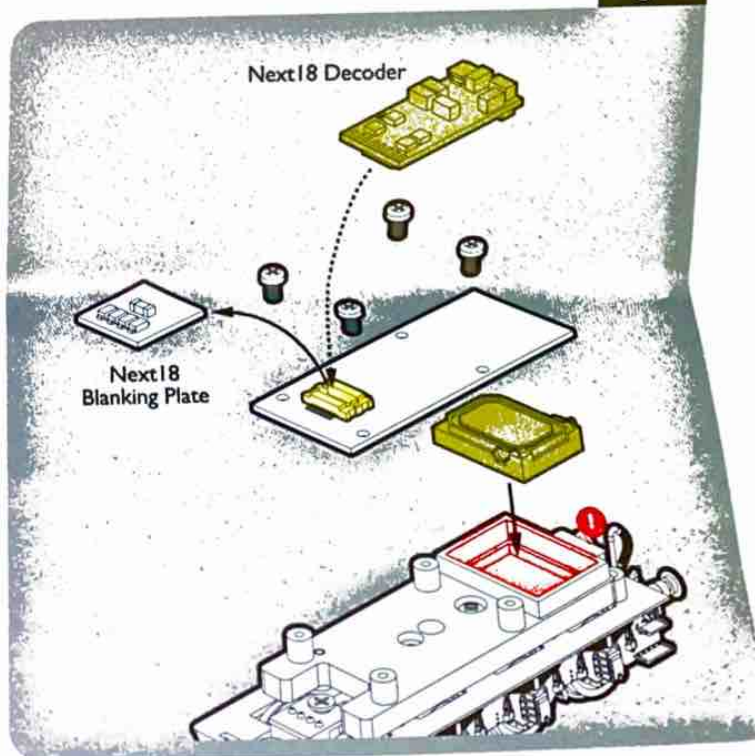


Fig.10



! Please Note

Space has been allowed under the PCB for a Sugarcube speaker as shown in Fig.10.

Television Suppression

Your Hornby locomotive incorporates radio and television interference suppressors. Should interference be experienced despite these precautions, it may be due to close proximity of the model railway layout to receivers, aerials, or their 'downlines'. In this case, move the layout further away from aerials and receivers.

It is most important that track and wheels be kept absolutely clean.

Spare Parts and Service

Spare parts packs can be obtained from Hornby Service Dealers who are also able to offer a repair service. The product (or component), may be forwarded to the address shown below, carefully packed, with a note enclosed giving full details to: DS Logistics, Lakesview Business Park, Units 5-1-, Sparrow Way, Hersden, Kent, CT3 4JH, UK.

Safety Notes

- *This locomotive is not suitable for children under 14 years of age. Handle with care.*
- *This locomotive is intended for indoor use only*
- *The transformer is not a toy. It is a 'Transformer for Toys'. Before use, check that the transformer is the correct voltage for your mains electricity supply. This locomotive is only to be used with the recommended transformer. The transformer should be examined regularly for damage to the casing, plug pins and cables.*

In the event of such damage, the set should not be used until the transformer is replaced with a new Hornby recommended unit. Never attempt to open the transformer yourself.

- *This locomotive must not be connected to more than the recommended number of power supplies. The output terminals of the transformer must not be connected directly, or indirectly, to the output of any other AC circuit derived from a transformer or mains power supply.*
- *Before cleaning any part, disconnect the transformer from the mains electricity supply*

Do not use liquid for cleaning.

- *Please retain these details and address for future reference*

IMPORTANT

- *This locomotive is made to exacting fine scale standards and therefore necessarily incorporates small, delicate, protruding parts - handle with care.*
- *Before using the model, read through the Operating and Maintenance instructions in this leaflet.*

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