

Upgrade Parts



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Dream Steam

3 Wick Meths Burner with Bung and Curved Tip Syringe for Mamod or MSS Side Tank Locomotive



Thank you for purchasing this 3 Wick Meths Burner with bung and curved tip syringe for the Mamod and MSS side tank live steam locomotive.

We hope you enjoy using this upgrade part, which is one of many we offer for the Mamod and MSS railway range. Please see our website and back of this booklet for further details.

Introduction: This burner is intended for use with the old Mamod and new MSS side tank live steam locomotives. It directly replaces the standard solid fuel burner tray. It will give improved heat output and performance, especially when used with a High Pressure Safety Valve.

Caution: This burner must only be used with Methylated Spirit, no other fuel should be used. As you will be using flammable liquid and naked flames, extreme caution must be used as the blue flame from spilt meths is not always visible. Never allow children under 14 years to use this burner, and then only under the close supervision of a competent adult. Do not over fill the burner and do not tip it when lit as fuel will spill. Always have a suitable means of extinguishing the fuel should a spill occur.

Instruction for fitting your new 3 Wick Meths Burner

For best results, please read these instructions as a guide only as every loco is slightly different and can have other parts or modifications that require a different arrangement. Before starting assembly familiarize yourself with and check all the components.

Fitting:

1. Remove the standard solid fuel burner tray.
2. Check the wicks are secure and protruding about 3-5 mm.
3. Remove the brass securing nut and bung from the 3 wick burner.
4. Remove the standard spacer between the chassis frames and wheels.
5. Fit the 3 wick burner from underneath the loco with the wick tubes pointing upwards towards the boiler and slotting in between the wheel axles and the securing stud on top of the burner tank fitting into the slot in the cab floor.
6. Some filing of the slot and screws attached to the chassis in the space where the burner tank is to go may be needed to make space.
7. When the burner is in place, screw the brass nut on to the securing stud in the cab floor; the slot may need extending.
8. Fit the new chassis spacer (with section cut-out facing downwards) into the position previously occupied by the standard chassis spacer. Secure with screws. Tie the burner tube to the spacer by twisting some thin metal wire to hold it in place.

Operation: Using the curved tip syringe, or other suitable filling device, gently fill the fuel tank with Methylated Spirit. Always carry out this operation in a well ventilated area and ensure all naked flames are extinguished first.

Do not fill right to the top of the filler hole as you need to leave enough space for the bung to go in without spilling any out. If you over fill the tank or spill some, suck it up with the syringe straight away. Filling the fuel tank to the correct level can need practice to get it right.

When the fuel tank is full enough, replace the rubber bung ensuring the small copper pipe is not blocked prior to use by gently blowing it through to test it.

Before lighting the burner, ensure any spilt meths is cleared. Ensure the loco is ready to run and all the normal safety checks have been made as usual, such as water level in the boiler and safety valve function.

With a suitable ignition source, a gas cooker lighter is best, attempt to light the three wicks by applying the lighter to the underside of the loco as close to the wick tubes as possible without tipping the loco.

Do not hold your face directly over the loco when lit. To check the burner is alight, you can hold your hand at least 6 inches above the boiler to feel for heat being given off, but be careful not to burn yourself or clothing.

You may find it easier to light the burner if you make a suitable stand and lower the loco onto the burner once lit and secure the brass nut on the stud each time. The wire holding the pipe on the spacer is not used in this case but extra caution is required.

The meths burner tank should run out before the boiler runs out of water if both have been filled at the same time. Do not run the boiler dry as this will cause damage. If this occurs, extinguish the burner straight away and allow to cool. Check for damage and test for leaks before re-steaming.

Ensure the burner flame is extinguished after use and never store fuel in the tank. Only fill when needed.

Safety: This product is not intended for and should not be used by children. Fitting requires some dismantling and modification to the locomotive and should only be attempted by a competent adult with suitable tools. Remember, you are using **Flammable Liquid**—Use with caution.

Checks must be made that the loco is correctly reassembled and steam tested prior to use. A safety valve must be fitted to the locomotive at all times when in use.