

PLine
BUILT IN BRASS



OWNER'S MANUAL: FOWLER RESILIENT 40HP LOCOMOTIVE

“Betty”

1:19 scale Model with insulated wheels for 32mm gauge tracks.

**PLEASE READ THIS OWNERS MANUAL CAREFULLY BEFORE OPERATING THE
MODEL**

<http://pline.co.in>

16-17V1.0

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Caution!!

This model is an accurate replica of the original locomotive. It has sharp and moving parts. AT ANY TIME, OPERATORS MUST NOT COME IN CONTACT WITH THE MODEL WHILE IT IS POWERED. UNDER NO CIRCUMSTANCES SHALL Model Engineering Company OR ANY OF ITS ASSOCIATES BE HELD RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING IN REGARD TO ANY PLINE PRODUCT.

Items included:

1. Fowler Resilient Locomotive Chassis X 1 off
2. Fowler Resilient Locomotive Body Shell X 1 off
3. 8BA hex head Chassis Mounting screws X 4 off
4. Multi height coupler X 2 off
5. Brass Photo etched makers & nameplates plates X 2 off (each)
6. Owner's Manual X 1 off

Required:

1. 12v 2.2Ah rechargeable battery pack for model
2. Suitable battery chargers for serials 1
3. 12v 3A PWM Speed controller OR RC gear

Battery Pack Selection:

This model is not supplied with the Battery Packs due to International Shipping & Security norms. We recommend 12v 2200mAh rechargeable Nicad or NiMh battery pack for the locomotive.

Once the PWM speed regulator (the model can be converted to RC, for more information on RC conversion, refer the RC manufacturer's instructions), is installed, connect your preferred battery pack to the terminal Connector leads inside the locomotive cab by removing the locomotive chassis. The chassis is bolted to the body shell from underneath by four hex head M3 bolts. They can be removed by the help of a M3 socket wrench. BE CAREFUL TO CONNECT THE CORRECT POLARITY OF THE BATTERY TERMINALS TO THE CONNECTOR STRIP. THE WIRES ARE COLOURED RED FOR +VE & BLACK FOR -VE POLARITY. INCORRECT POLARITY CONNECTION CAN DAMAGE THE CONTROL SYSTEM OF YOUR MODEL. The locomotive battery pack can be housed inside the loco on the chassis.

Lubricating:

With a bit of care, your Fowler Reilient should give you many years of pleasure and reliable service.

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Lubrication is of prime importance for a model of this type with few moving parts. Always use quality lubricants. This should not be a problem, for there are many modern lubricants available in hobby and sport shops. Light oil such as Labelle #108 or Hoppe's Gun Oil would be good enough for lubricating most of the moving parts. For gears use a suitable gear grease such as Permatex Super Lube or another hobby gear lubricant.

The worm & wheels driving each axle can be lubricated by applying grease on the gear teeth using a small screw driver.

To access the moving parts of this model it is best to carefully place it on its roof on a soft towel or foam sheet. A drop of light oil on every moving part is necessary, and there aren't many on this locomotive. Use a drop of Lubricating Oil to lubricate each Axle bearing. Be sure to lubricate all the wheel bearings, gear bearings etc. that you can see. Do not over lubricate, for excess oil only picks up unwanted dirt. Be careful to keep lubrication off the painted surfaces as this causes shiny areas. Thorough Lubrication of the locomotive should be done every 5 hours of operation.

Operating the model:

Connect the battery pack to the battery terminals of the locomotive.

Next flip the Direction switch in forward or reverse direction to move the loco in that direction. The throttle can be slowly increased by turning the PWM speed regulator's throttle knob in order to accelerate or decelerate the model. To stop the model, simply put the Direction switch in the centre "Off" position. The head & tail lamps are directional and are on the motors.

CAUTION: DO NOT RUN THE MOTORS ON FULL THROTTLE IN THE FIRST 60 MINUTES OF RUNNING. Run the model at half throttle in any one direction for a few minutes, then stop, and then run it again at half throttle for a few minutes more. Repeat this procedure for about twenty minutes until the model runs smoothly in both directions. Once you have run your Model on half throttle in both directions on a test track for at least about half an hour, your model should be ready to run at Full throttle on the Outdoor layout.

Maintenance:

Clean the body of the Model with a clean soft lint free cotton cloth. To remove stubborn grease stains from the painted surface use a detergent solution with a lint free cloth. With a little care your PLine Fowler Resilient Locomotive will give you years of trouble free running.

IMPORTANT!

Some parts may have loosened during shipment. Inspect your model prior to any operation. Please contact PLine at info@pline.co.in for more assistance.

THANK YOU!

Manufactured by: Model Engineering Company

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