

**PLine**  
**BUILT IN BRASS**



**OWNER'S MANUAL: W^D 40HP SIMPLEX LOCOMOTIVE**

**"Tin Turtle"**

**1:19 scale Model with gauge adjustable wheels for 45mm or 32mm gauge tracks.**

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

<http://pline.co.in>

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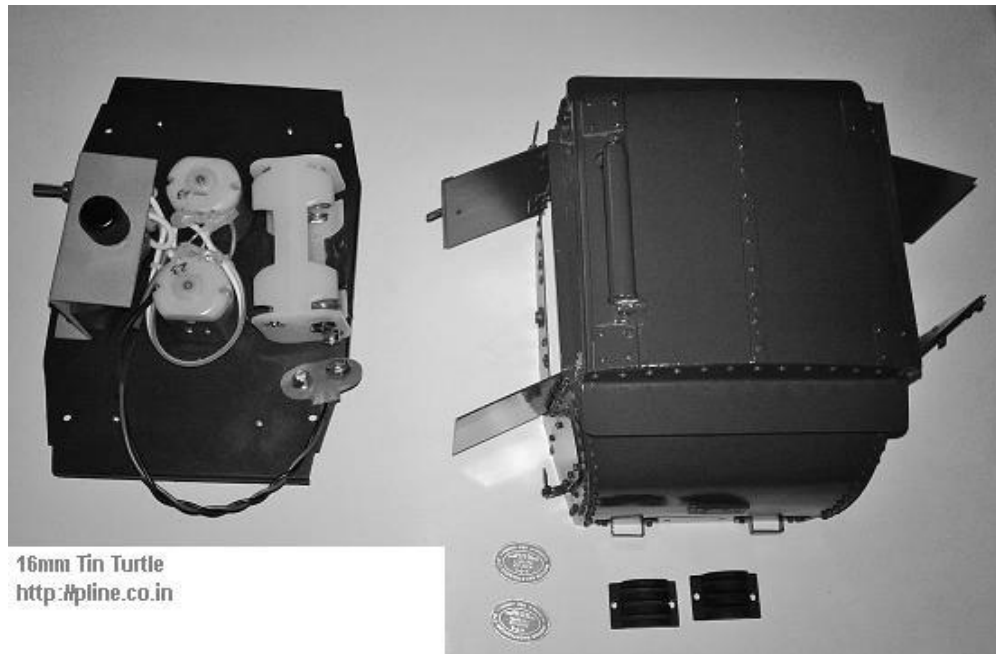
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**Caution!!**

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. W^D Simplex Model Locomotive Chassis X 1 off (Serial # \_\_\_\_\_)
2. W^D Simplex Model Locomotive Body Shell X 1 off
3. M3 hex head Chassis Mounting Bolts X 4 off
4. Multi height coupler X 2 off
5. Brass Photo etched makers plates X 2 off
6. Owner's Manual X 1 off



**Required:**

1. 12v 1.5Ah rechargeable battery pack for model
2. Suitable battery chargers for serials 1

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3. 12v 3A PWM Speed controller

***Battery Pack Selection:***

This model is not supplied with the Battery Packs due to International Shipping & Security norms. We recommend 12v 1500mAh rechargeable Nicad or NiMh battery pack for the locomotive.

Once the PWM speed regulator 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 PLine Tin turtle should give you many years of pleasure and reliable service. 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.

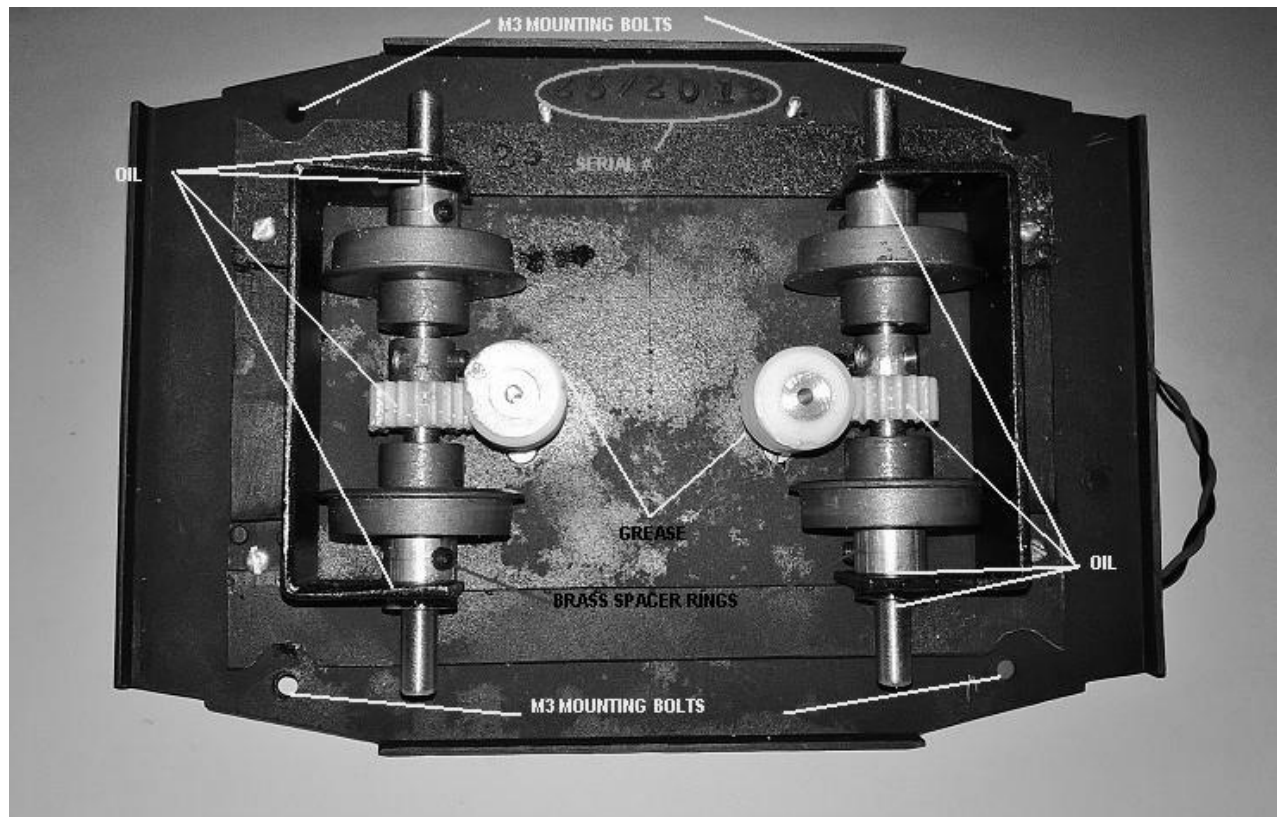
To access the moving parts of this model it is best to carefully place it on its roof on a soft towel or foam sheet. A drop of light oil on every moving part is necessary, and there aren't many on this locomotive. Use oil that is a bit heavier to lubricate the axle bushings and pivot points of the Bogie. Use a drop of

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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:**

Insert 4 off AA alkaline or similar batteries into the battery box, and connect the battery pack to the battery terminals of the locomotive (refer above figure for details).



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Loco Controls (above)

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.

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.

### **Altering wheel gauge:**

Your Tin turtle locomotive is fitted with gauge adjustable wheels to run on both 32mm & 45mm gauge tracks. Before altering wheel gauge, make sure that the battery pack for the locomotive is disconnected and removed from the model. Turn the model upside down on a clean piece of cloth, so that you have access to the wheels. The wheels are locked in place using M3 grub screws. Use a suitable M3 Allen wrench to loosen the M3 grub screws on the wheel hubs (at the rear of the wheels) and on the spacer rings. Slide the wheels on the axles to get the required gauge. Once the desired gauge has been attained, tighten the M3 grub screws with the Allen wrench to lock the wheels for the desired gauge. For reference the back to back wheel distance for 45mm gauge is 40mm while that for 32mm gauge is 28mm.

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For 45mm gauge place the brass spacer rings outside the bogie frame and tighten the M3 grub screws on them, while for 32mm gauge they can be placed either inside or outside the bogie frames.

***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 Tin Turtle 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](mailto:info@pline.co.in) for more assistance.

THANK YOU!

Manufactured by: Model Engineering Company  
47, Sankharitola Street, Calcutta-700014, India.  
Tel: +91-33-22650746  
e-mail: [info@pline.co.in](mailto:info@pline.co.in)  
URL: [www.pline.co.in](http://www.pline.co.in)