
Instruction Manual - WSL Heisler #2 Electric



ACCUCRAFT TRAINS
33268 Central Avenue
Union City, CA 94587, USA
Tel: 510 324-3399
Fax: 510 324-3366
E-mail: info@accucraft.com
www.accucraft.com



General information About Accucraft Model:

This accurately detailed model is constructed of brass and stainless steel. A large Pittman gearhead motor powers all drivers through a metal gear box with steel gears. The museum quality finish and lettering represents this locomotive as it would have looked in the 1950's.

Your Accucraft model is ready for installation of a DCC decoder. Lift up and remove the tender "coal boards", then lift off the coal-load tray. On the front area of the tender floor you will find Accucraft's power distribution board, which has several features. Track power is routed through this board to the motor, and it is a simple matter to disconnect the power and motor wires and then insert your DCC decoder at this point.

In addition, this distribution board has switches to control the outputs to the motor and sound systems, and also has power "tap-off" points for two 1.5v supplies, one reverse 1.5v supply, and an 24v supply for sound system power.

You will also find two wires inside the locomotive stack for powering your choice of an after-market smoke unit. Please understand that these wires supply direct track power and are not regulated to conform to any particular smoke unit.

The light bulbs in your locomotive are all rated at 1.5v DC.

Locomotive has carbon brush pickups on both rails, to insure reliable operation when using track power.

Your model comes with Accucraft's new scale couplers. These operate much the same as the prototype, and they are scaled from prototype photos and drawings. They can be activated, as on the prototype, from both the top and bottom of the coupler. These couplers are made of a plastic material, and they will allow you to double head your locomotive with another metal locomotive without incurring any short-circuit problems.

Disassembly of this large and complex model is not recommended. However, if absolutely necessary, the 2mm hex bolts and nuts can be turned with a nut driver sized for US 00-90.

Instruction Manual - WSL Heisler #2 Electric



Please take care in lifting this large and heavy model. It is recommended that the locomotive be picked up by grasping it under the frame on both ends.

Production volume is limited and each unit is serially labeled on the bottom of each locomotive.

Technical Specifications

Scale	1:20.3
Gauge	45mm Gauge
Total Weight	5.5 Kg, 12 lb.
Length	430 mm, 17 in.
Width	152 mm, 6 in.
Height	178 mm, 7 in.
Minimum Radius	1.2 M, 48 in.
Power	0-24V, Pittman Gearhead Motor
Features	Constant Lighting, Sound Ready

* Be sure to leave at least 3" clearance (measured from the inner rail) on the 46 1/4 ins radius curve to allow for overhang.

The following parts are packaged separately

- M3 hex head screws
- 3mm hex head screw driver

Caution!

This model is an accurate replica of the original locomotive. It has sharp and moving parts. The locomotive drive rods are stainless steel with sharp edges. **AT ANY TIME, OPERATORS MUST NOT BECOME IN CONTACT WITH THE MODEL WHILE IT IS POWERED. UNDER NO CIRCUMSTANCES SHALL ACCUCRAFT TRAINS BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING IN REGARD TO ANY ACCUCRAFT PRODUCT.**

Instruction Manual - WSL Heisler #2 Electric



Model Features

This limited production model has been handcrafted for Accucraft Trains by AMMC, one of the most respected makers of large scale brass models. This museum quality model features:

- Full cab interior details.
- Detailed boiler with fittings, domes, pipes, and handrails
- Operating steel drive rods, valve gear and cross heads
- Prototypical livery and lettering
- Scale couplers (compatible with Kadee #835)
- Steel helical gears in a die-cast transfer box

Maintenance

Tools you will need for maintenance

- 1.5 mm allen wrench
- 2 mm and 3 mm hex wrenches
- Flat head screw driver

Lubrication

Please lubricate your Accucraft Heisler #2 before attempting to operate.

With a bit of care, your Accucraft Heisler #2 should give you many years of pleasure and reliable service. Lubrication is of prime importance on a model of this type with so many 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 will do a good job on lubricating most of the moving parts. For pistons and slides, a heavier lubricant such as Labelle #102 would suffice. For gears use a gear grease such as Permatex Super Lube or another hobby gear lubricant.

To access the many moving parts of this model it is best to carefully place it on its side on a soft towel or foam sheet. A drop of light oil on every moving part is necessary, and there are many on this locomotive. Be sure to lubricate all the crank pins, crosshead slides, piston rods, 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.

The main gear box is lubricated in the factory, and will not need any attention when you first run your model. However, in time, you should make sure that the gears are well lubricated with a technical gear grease. The gear box cover is held on with screws, and removing it will allow you to access all the gears and bushings that need lubrication. Take note of how the cover came off and replace it exactly the way it was when you started.

Lubrication should be done every 25 hours of operation.

Operation

After following the recommended lubrication procedures your locomotive is ready to provide many years of reliable operation. We recommend that you use a D.C power supply with a capacity of 2.5 amps or larger. Always pick your model up by grasping it under the frame on both ends. It is a very heavy model so make sure that you grasp it firmly.

- ***Electrical Pickup***

Your Accucraft model is powered by the DC voltage off the track. All drivers are insulated on both sides of the locomotive, and the electricity is picked up with 8 pickup wheels. Be sure to clean electrical pickup units before each operation. Replacement electrical pickup units can be ordered from Accucraft Trains.

- ***Power Distribution Board***

All input and output terminals on the power distribution board are labeled for easy access. Two "On/Off" switches are added to the circuit. "M" switch can disconnect the locomotive motor from its powered wheels, and "S&L" switch controls the sound unit and lights.

- ***Lighting***

This model features directional lighting. The constant voltage is set at 1.5V.

- ***Sound Installation (if not factory installed)***

Several manufacturers have sound systems that are acceptable for your new Heisler #2 locomotive. Sound system power connectors are available on the power distribution board in the oil & water tank and a generous speaker hole will be found. Please contact sound system manufacturers for installation directions.

If your system uses a synchronizing pulse for the control of the chuff, we suggest placing two magnets 180 degrees apart on one of the tender axles. This will give you a synchronized chuff that is very close to the prototypes four chuffs per locomotive driver revolution.

Operation

- ***General maintenance***

Clean the exterior surfaces of your locomotive with a clean, soft and lint free cloth. To remove stubborn soil or greasy spots from the painted surfaces use alcohol on a soft, lint free cloth.

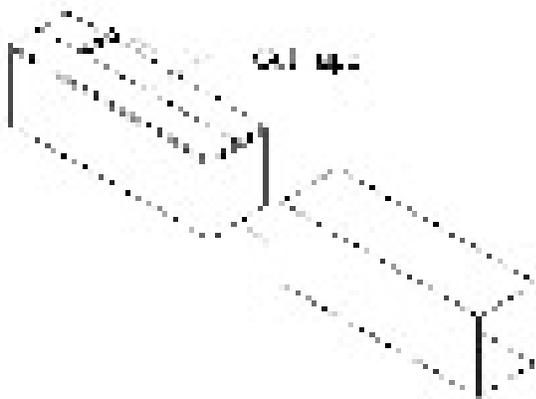
Unpacking Accucraft Locomotive

Accucraft Trains locomotives are fine scale brass models with small parts. To provide maximum protection from shipping damage, we carefully pack the models in metal cases. We ship via UPS with insurance coverage to its full value. Please contact UPS if package is damaged.

Each locomotive is packed under UPS guideline for shipping. We do not warrant any damage resulted from re-packaging by any party other than Accucraft Trains.

Please read the following directions before unpacking your locomotive.

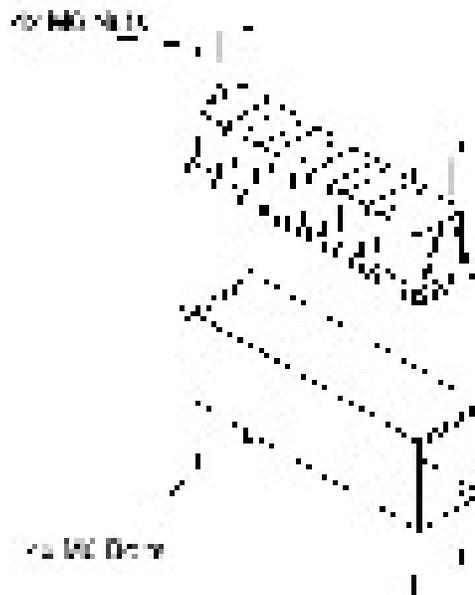
1. Remove foam around the locomotive. Slide the inner box cover to the side, and open the inside cardboard box with a cutting knife.



2. Lift the metal case from the cardboard box.

3. The locomotive is firmly taped to a 1/2" wood board which is then fastened to the metal case with 4 M6 bolts. Bolts must be

removed before lifting the locomotive with wood board from the metal case.



4. Place taped locomotive on a flat surface. Carefully cut the tape along the wood board side surface. Be sure to cut both sides of the wood board. Slowly lift the tape from the locomotive. Be very careful with small parts. Tape cannot be re-used to re-pack the model. Use new packing tape if necessary.

