

MAINTENANCE, LUBRICATION & HOW TO REMOVE SHELL

LUBRICATION
The ScaleTrains C44-9W Locomotive represents hours of careful research and design work, and we are proud to present it to you. With the right care, it should provide years and years of model railroading enjoyment. Out of the box, the model should be ready for service, no lubrication should be necessary; it has been carefully lubricated at the factory for optimum performance. However, if the need to lubricate should arise, please follow these guidelines:

- Be sure to use a plastic-compatible lubricant! Most household lubricants, such as “3-in-1” type oils, may damage the slippery engineering plastic found in the driveline of the model. Wherever possible, use lubricants designed specifically for model railroad or similar hobby uses, and if in doubt, check the label for any compatibility warnings.
- Use the right type of lubricant in the right location! For metal-to-metal bearing surfaces, the use of light or medium oils is recommended. For plastic-to-plastic applications, such as gears, light greases are recommended.
- Always use lubricant sparingly! As the saying goes, a little goes a long way. When applying lubricant to bearing surfaces, a tiny drop or dab applied with a fine point, such as a toothpick, should be more than sufficient. Any excess lubricant oozing from a bearing surface should be carefully wiped away with a paper towel.

Lubrication points will be the same as would be expected in most any model locomotive. On the locomotive power trucks the bearing is behind the wheel so a small drop of light plastic compatible oil can be used behind each wheel as necessary. The interior of the model is filled with circuit boards and wiring for the many features of your C44-9W locomotive so great care must be taken when applying lubrication to areas that may require lubrication inside the locomotive. Refer to the disassembly instructions and exploded diagrams (available on our webpage) to understand how to remove the body to access the inner workings of the locomotive. Lubrication points inside the model would be the motor bearings, where a small drop of oil between the motor ends and the brass flywheels, on the motor shaft, will be sufficient. The other location would be the at the worm shafts on the top of the gearboxes. These too can use a small drop of oil at both ends of the shaft. One end being where the driveshafts are attached to the metal worm shaft and the other being the opposite end where the shaft slightly protrudes out of the bearing. Grease can be applied to the gear box gear by removing the worm cover and then the worm and shaft. Once the worm and shaft are removed a small amount of grease can be applied to the top gear box gear, the one that contacts the worm gear then the worm and worm cover can be reinstalled. As the locomotive runs the grease will be distributed inside the gearbox to all the gears. Whenever possible, avoid contact of lubricants with the model’s exterior finish. Oils and greases can possibly harm the factory paint and lettering; any excess that may make contact should be gently wiped away with a paper towel or other fine cloth. Due the delicate nature of the interior components inside the locomotives if there is any concern it may be best to contact your local dealer or contact us directly to help guide you through the lubrication process.

HANDLING
Due to the delicate nature of the model, it is advised that care should be taken when removing the model from its packaging, and placing it onto your test track or layout. Carefully remove the locomotive blister from the box. To remove the locomotive, carefully slide off the outer sleeve from the “clamshell” plastic holder cradling each unit, and set it aside.

Next, unsnap the plastic clamshell holder; note that at one end is hinged, and designed to snap into the top half of the holder. Do this on a flat surface, to reduce the risk of the clamshell or the model slipping from your grip and falling to the floor. Once the clamshell is fully open, carefully remove the model. There are two plastic brackets on the bottom of the trucks to help secure the model in the blister. These are a friction fit on the bottom of the trucks. Remove these before attempting to put the locomotive on the tracks. When putting the model back in the box simple reverse the process to place it back into its packaging for storage. NOTE: Pay close attention to the model's orientation in the clamshell container. The model will only fit correctly one way. Improper placement may result in the Damage of small detail parts on the model. When handling the model, it is recommended that it is gripped firmly at its fuel tank section, avoiding any small details that may be present.

DISASSEMBLY
When disassembling the locomotive, it is recommended that it is placed upside-down into a foam cradle to protect it from damage. In order to remove the body simply remove the coupler box screws, couplers and coupler boxes. Some models may require the removal of the snowplow. They are attached with a white glue and should be easily removed. Reattach the snowplow using a white glue so that if necessary the snowplow can be removed again if needed. Once the screws and coupler boxes are removed the body shell can now be removed from the mechanism. There are no wires or other connections between the body and chassis so gently lifting up on the body, paying attention to the many details, should allow the body to be easy removed from the chassis. Take great care when setting the body down as to not damage all the delicate parts. At this point maintenance can be preformed.

CLEANING
If kept out of its protective packaging for extended periods, it is likely your C44-9W may accumulate dust or other debris. While unsightly, it can also potentially damage the finish of the model if allowed to accumulate. To remove light dust, it is recommended that a fine paint brush is used to gently knock off dust particles. For heavier accumulations, canned air dusters (commonly used for cleaning electronics), or air from an airbrush, can be used.

OPERATOR GE C44-9W PARTS LIST

SXT80121	Screw, Flat Head, Self Tapping 2.0MM X 6.0MM	SXT81152	Power Truck - Less Sideframes
SXT80168	Type E coupler - Plastic 1 Pr.	SXT81153	Ditch Light Contact PCB
SXT80169	Type E coupler - Plastic 6 Pr.	SXT81154	Upper Weight, C44-9W
SXT80205	Coupler Centering Spring	SXT81155	Coupler Box Assembly
SXT80206	Coupler Knuckle Spring	SXT81156	Wire Keeper Set
SXT80580	Screw, Round Head, Machine, 2.0MM X 4.0MM	SXT81157	Headlight PCB
SXT80588	Screw, Round Head, Self Tapping, 1.6MM x 4.0MM	SXT81158	Rear Headlight Light Shield
SXT80589	Screw, Flat Head, Machine 2.0MM X 4.0MM	SXT81160	Screw, Round Head, Machine 1.2MM x 3.0MM
SXT80594	Screw, Flat Head, Self Tapping, 1.6MM X 4.0MM	SXT81161	Brake Chain Guide
SXT80595	Worm & Shaft	SXT81162	Handrail Set Operator C44-9W Undecorated
SXT80596	Worm Gear Bearing	SXT81163	Operator C44-9W Walkway Assembly
SXT80814	Oval Speaker for OP HO Diesels 16 x 35MM 8 Ohm 1 Watt	SXT81164	Screw, Flat Head, Self Tapping 1.6MM X 4.0MM
SXT80907	Blind Plug	SXT81165	Snowplow
SXT80912	Gearbox Assembly	SXT81166	Front Ditch Light PCB
SXT80913	Gearbox Bottom Cover Assembly	SXT81167	Body Tier 4 GEVO Operator
SXT80917	Motor Assembly	SXT81168	Horn
SXT81143	Operator C44-9W Manual	SXT81169	Headlight Housing
SXT81144	Power Axle Assembly 42" Wheel	SXT81170	Cab Interior,C44-9W, Operator Series
SXT81145	Gear Set, Power Truck	SXT81171	Window and Lens Set
SXT81146	Driveline Set	SXT81172	Number Board Light Pipe Holder
SXT81147	Operator Main Board	SXT81173	Sunshade
SXT81148	Gearbox Worm Gear Top Cover	SXT81174	Cab Assembly C44-9W Operator
SXT81149	Chassis		
SXT81150	Fuel Tank Set		
SXT81151	Hi Ad Sideframe Set-Operator		

Customer Service Crew Contact Information

ScaleTrains.com, Inc. Attention: Service 7598 Highway 411 Benton, TN 37307	Support@ScaleTrains.com	Toll-Free: 844-9TRAINS 844-987-2467 Toll-Free Fax: 844-388-0779
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GE C44-9W LOCOMOTIVE

Operation. Accuracy. Durability. Quality. Value. Versatility.

These are the pillars of our Operator™ line. Each model is created utilizing builder’s drawings, photographs, and more. Even though Operator models have fewer factory applied detail parts and simplified printing, they’re designed to look right at home on your layout. And Operator models can be enhanced with modeler-applied parts and decals available separately. If you enjoy running high-quality realistic trains at an affordable price, our Operator series is for you.

Prototype Specific ScaleTrains

- Fully assembled
- Three (3) different road numbers
- Printed and LED lighted number boards
- Directional LED headlights
- See-through steps
- GE “nub” pattern walkway tread
- Factory-applied details including snowplow, nose door with window, sunshades, air tanks, horn, exhaust stack, and brake wheel
- Pre-drilled for grab irons, coupler cut levers, MU hoses, trainline hoses, etc.
- Detail kit available separately (SXT81047)
- Cab interior
- Finely molded grilles
- 5,000 Gallon fuel tank
- Semi-scale coupler buffers
- Body-mounted semi-scale Type E knuckle couplers
- 5-pole skew wound motor with dual flywheels
- All-wheel drive and electrical pick-up
- Simplified printing and lettering legible under magnification
- Printing and lettering legible even under magnification
- Minimum radius: 18”
- Recommended radius: 22”

Operator Locomotives Features

- Factory assembled
- Color matched to Tru-Color paint colors, where possible
- Printing and lettering legible under magnification
- Semi-scale ScaleTrains.com Type E knuckle couplers
- Accurately profiled .110" wide wheel tread
- Weighted to Industry standards
- Operates on Code 70, 83 and 100 rail
- Packaging safely stores model

WARRANTY POLICY

ScaleTrains.com, Inc. (ScaleTrains.com) warrants product purchased from authorized resellers to be free from defects in material and workmanship for a period of one (1) year from the date of purchase. The warranty period can be increased to two (2) years by registering online at <http://www.ScaleTrains.com/pages/warranty>.

If the product fails during the limited warranty period, carefully pack the model in the original packaging and include the sales receipt and explanation of the issue. Ship the model to our Customer Service address noted below. We recommend using a traceable service and adding insurance. Costs associated with shipping are not covered under warranty. If ScaleTrains.com deems the product to be defective, we will either (1) repair or (2) replace at our discretion.

Defects due to misuse, improper maintenance, and/or modification are not covered under warranty. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state. These terms are covered by the State of Tennessee.

ScaleTrains.com™, Inc. • 7598 Highway 411, Benton, TN 37307 • www.scaletrains.com • Toll-Free 844-9TRAINS

WARNING: This product may contain a chemical known to the State of California to cause cancer or birth defects or other reproductive harm.

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