WILD WEST SET
Ready-to-Run
Owner's Manual

CAUTION—ELECTRIC TOY
NOT RECOMMENDED FOR CHILDREN UNDER EIGHT YEARS OF AGE. AS WITH ALL ELECTRIC PRODUCTS, PRECAUTIONS SHOULD BE OBSERVED DURING HANDLING AND USE TO PREVENT ELECTRIC SHOCK.

TRANSFORMER RATINGS—INPUT: 120 VAC; 60 HZ ONLY.
AC OUTPUT: 18 V; 80 VA
Congratulations!

Congratulations on your purchase of the The Lone Ranger® Ready-To-Run Train Set! This set features everything you need to get started—a CW-80 Transformer, a huge loop of easy-to-assemble FasTrack track, a string of detailed cars, and a powerful Lionel locomotive. Have fun growing with this complete train set! Start with the set components, then follow your imagination into your own miniature world. Expand your railroad empire with additional FasTrack track sections, enhance your layout with accessories, lengthen your consist with extra cars, or operate a new locomotive at the head end of your train! Explore the possibilities at your authorized Lionel dealer. Use this Owner’s Manual to learn how to set up, operate, and maintain your train set for years of reliable operation.

FCC Statement

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Notes: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

Parents! The transformer included with this set should be periodically examined for conditions that may result in the risk of fire, electric shock, or injury to persons (such as damage to the output cord, blades, housing, or other parts). In the event that such conditions exist, the transformer should not be used until properly repaired.

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The Lone Ranger® Train Set Features

- Bright headlight
- Puffing smoke
- TrainSounds sound system
- Forward-Neutral-Reverse operation
- Baggage car with sound
- Operating couplers

The Lone Ranger® Train Set Inventory

- 4-4-0 General Locomotive
- Tender
- Baggage car
- Gondola with box load
- The Lone Ranger® and outlaw car
- 4 horse figures
- 4 character figures, The Lone Ranger, Tonto, Scout and Silver
- CW-80 Transformer
- Three straight FasTrack track sections
- Eight curved FasTrack track sections
- One straight FasTrack terminal track section
- Smoke fluid
- Replacement traction tire
- Owner's manual

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Lionel®, TrainMaster®, Odyssey®, RailSounds®, CrewTalk™, TowerCom™, DynaChuff™, StationSounds™, Pullmor®, ElectroCoupler™, Magne-Traction®, CAB-1® Remote Controller, PowerMaster®, Lionel ZW®, ZW®, PowerHouse®, TMCC®, Lionelville™, Lockon®, Wireless Tether™, LionMaster®, FatBoy™, American Flyer®, TrainSounds™, PowerMax™, LEGACY™, PowerMax™ Plus, Odyssey II™, LEGACY RailSounds™, FasTrack™
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Creating your layout

Operating your CW-80 Transformer safely

Your Lionel CW-80 Transformer is listed by Underwriter’s Laboratory Inc. and has been carefully designed to ensure peak performance. When using electrical products, basic safety precautions should be maintained.

Be sure to observe the following guidelines:

• Read the manual thoroughly before using this device.
• This device is not recommended for children under eight years of age.
• Parents should periodically inspect this product for potential hazards and, if necessary, have them repaired by an authorized Lionel Service Center. In the event that such a condition exists, the transformer should not be used until it has been properly repaired.
• The CW-80 Transformer is intended to be used indoors. Do not use this device if water is present. Serious or fatal injuries may result.
• Use the CW-80 Transformer only for its intended purpose.
• The CW-80 Transformer was meant to operate on 120-volt, 60-Hertz power. Do not connect this product to any other power supply.
• Do not operate the CW-80 Transformer with a damaged cord, plug, or case.
• To avoid the risk of electrical shock, do not disassemble the unit. There are no user serviceable parts inside. If damaged, take this product to an authorized Lionel Service Center. A list of authorized Service Centers is packed with this unit.
• Do not operate the CW-80 Transformer on your layout unattended. Obstructed accessories or stalled trains may overheat, resulting in damage to your layout.
• Always unplug the CW-80 Transformer from the power source when not in use.
• Never insert objects into the ventilation slots on this product. Damage to sensitive electronic components can result.
Creating your layout

Building your Lionel layout

Your set comes with eight curved, three straight, and one terminal section of track. Figure 1 provides some examples of layouts that you can build with these track sections.

By adding more FasTrack track sections, you can create an endless number of exciting track arrangements for more fun, action, and variety. The railroad empire of your dreams can quickly become a reality!

![Track layout ideas](image)

FasTrack Add-on Track Packs make it easy to expand your railroad. Each Track Pack includes all the track sections you need to create a more advanced layout using the sections included with this set. Refer to Figure 2 to explore the possibilities.

![Add-on Track Pack layouts](image)

**Track Packs available separately.**
Creating your layout

Joining the FasTrack track sections

FasTrack track sections join together easily. With interlocking roadbed sections and large rail tabs, the track fits together securely so you always have good electrical contact. Take a look at Figure 3 to see how to join the track sections.

1. Line up your two sections of track.
2. Insert the rail tabs into the openings at the ends of the corresponding rails.
3. Press the sections together until the interlocking roadbed snaps into place.

Figure 3. Joining the track sections
Creating your layout

Wiring your CW-80 Transformer

Connect your FasTrack terminal section to the CW-80 Transformer. Use the wires that are already attached to the terminal section. Make sure that all connections are secure. Loose connections can produce extremely high temperatures. For this reason, do not touch the terminals or track connections during use. Also, do not locate scenery materials such as lichen or ground foam near the terminals.

1. Feed the wires through the notch in the FasTrack terminal section. Refer to Figure 4 on page 9.

2. Loosen the red TRACK thumbscrew terminal, then slide the red spade-shaped connector into position. The thumbscrew post should be positioned between the “blades” of the spade connector. Be sure that the blades are touching the metal post. Tighten the thumbscrew to secure the connection.

3. Loosen the black TRACK thumbscrew terminal, then slide the black spade-shaped connector into position. Tighten the thumbscrew to secure the connection. Be sure that the blades are touching the metal post. Tighten the thumbscrew to secure the connection.

4. If you need to power an accessory (available separately at your authorized Lionel dealer), connect the accessory to the ACCESSORY thumbscrew terminals. Use the accessory wire included with the CW-80 Transformer.
Creating your layout

Wiring your CW-80 Transformer (continued)

5. Plug the CW-80 Transformer into your wall outlet (120 volts).

As your layout expands, you may also make power connections with the stripped ends of wires, placing no more than two wires on each terminal. For best performance on large layouts, it is recommended that you use 16-gauge wire to connect your CW-80 Transformer to the track. On larger layouts where several track connections are required, the use of separate junctions/terminal strips (available at your local electronics store) is recommended to prevent voltage drops.

**Caution!** To prevent the excessive build up of heat, be sure to select the proper wire gauge for your layout. Follow these guidelines:

- Track connections must be made with 18-gauge wire or heavier. Larger layouts require a minimum of 16-gauge wire.
- Use 24-gauge wire only when connecting single accessories that require lower current.
- When wiring multiple accessories (two or more) or accessories that require higher current, be sure to use 18- to 16-gauge wire.

![FasTrack terminal section](image-url)

Figure 4. Controller connections
Running your train

Running your train set

1 Place your locomotive on Lionel or Lionel-compatible track.
   • With track power OFF, connect the drawbar between locomotive and tender. Refer to Figure 5. Refer to page 12 for information on coupling cars.

   Caution! If the smoke unit switch is in the ON position, add smoke fluid to your locomotive's stack to prevent damage to the smoke unit. Refer to page 11 for additional information.

   Caution! Slide the smoke unit switch to the OFF position if the locomotive remains in neutral. The smoke unit will become damaged if the locomotive is left sitting on the track with power on. Refer to page 15 for the location of this switch.

   Figure 5. Drawbar connection

2 Power up your locomotive with your transformer.
   • Your locomotive is designed to operate on 7-15 volts alternating current. Virtually all Lionel and Lionel-compatible alternating-current transformers are suitable.

   Note! • Do not power your locomotive with direct current (DC) transformers.

3 Move ‘em out!
   • Get your locomotive moving. To sequence the reversing unit, press the direction control button on your transformer, or turn the throttle OFF and back ON again until you are moving in the desired direction.

   • Adjust track voltage until your locomotive moves at your desired speed.
Running your train

Adding smoke fluid to your locomotive’s smoke generator

Your locomotive is equipped with a smoke generator that produces safe, clean white smoke during operation if the smoke unit switch is in the ON position. Refer to Figure 9 on page 15 for the location of the switch.

The smoke generator requires the periodic addition of Lionel smoke fluid in order to function. A small bottle of smoke fluid is included with this set. Press down and unscrew the cap. Pierce the end of the nozzle with a pin, then add about four drops of fluid directly into the locomotive’s stack. Smoke production commences momentarily. It will start faster if you run your locomotive at higher speeds. When smoke production decreases, add more fluid (about four drops). An idle locomotive will not smoke.

Smoke production is greater at higher voltages and when the locomotive is pulling a heavy load or a long consist.

**Note!** If you prefer to operate the locomotive without smoke or you do not want to add smoke fluid, slide the smoke unit switch to the OFF position.

**Caution!** Slide the smoke unit switch to the OFF position if the locomotive remains in neutral. The smoke unit will become damaged if the locomotive is left sitting on the track with power on.

![Figure 6. Adding smoke fluid to your locomotive’s stack](image_url)
Running your train

Coupling

When coupling your cars, at least one of the mating couplers must be open as shown at the left in Figure 7. Press down on the lock release to open the coupler, then push the cars toward each other until they lock together.

Note! Keep in mind that it's easier to couple cars on a straight stretch of track.

![Figure 7. Coupler operation](image)

Operating your trains with the CW-80 Transformer

You're clear for departure! Move the throttle control handle forward to increase power to the track. The farther forward you push the handle, the faster your train will go.

Note! Quickly shutting off or throwing the throttle all the way forward will not result in an instant change in track voltage.

When operating in the conventional (non-Command) environment, remember that the greater the load on the engine (adding more cars for the engine to pull, for example), the farther forward the handle must be pushed before it will operate the locomotive.
Running your train

Experiencing the features of the CW-80 Transformer

Refer to Figure 8 on page 14 for the location of the Transformer features listed in this section.

THROTTLE

Push the throttle forward to increase track power. The markings on the throttle approximate the percentage of full power. For more realism, push the throttle slowly to gradually increase or decrease the speed of the locomotive. Slowing or stopping the locomotive with the throttle instead of the DIRECTION button will allow you to continue in the same direction when you increase the throttle again. To achieve this effect, reduce the throttle to the point that the locomotive stops moving, but don’t completely turn off the throttle. That way, your train won’t sequence into neutral.

DIRECTION

The DIRECTION control button interrupts track power to activate the reverse unit in your locomotive. Your locomotive will not respond to this button when the reverse unit switch is in the OFF position.

WHISTLE

The WHISTLE button will activate your locomotive’s whistle or horn. The sound will continue until the button is released. No external sound activation buttons are needed.

Note! Your locomotive features TrainSounds in the tender.

BELL

The BELL button will activate the bell sounds on locomotives equipped with this feature. Press and hold the BELL button for two to three seconds to begin the sounds; press and hold the button again to turn off the ringing.

Note! Do not activate horns, whistles, or bells on RailSounds-equipped locomotives until track power has been turned on for a few moments, or a continuous horn/whistle or bell sound may occur. To correct this problem, simply turn off the CW-80 Transformer, then turn it back on.

POWER-ON INDICATOR

The green light will remain on during normal operation. The green light will begin to flash if you exceed the power limit of the Transformer. The unit will allow you to momentarily exceed the power limit, but power will be gradually reduced until the problem is corrected. The benefit is that the Transformer will not instantly turn off.
Running your train

Experiencing the features of the CW-80 Transformer (continued)

Direction
Press the DIRECTION button to go forward or reverse, or to place the locomotive in "neutral" (no movement, headlight is on).

Bell
Starts or stops the tolling bell in any RailSounds or TrainSounds-equipped locomotive. Press BELL to begin the sound, again to stop it.

Power-on indicator
The green light illuminates when the CW-80 is on.

Whistle/Horn
Activates the whistle or horn sound effect in your Lionel locomotives. Press WHISTLE/HORN to begin the sound; release the button to end it.

Throttle
Controls your locomotive’s speed. Throw the throttle forward to increase locomotive speed, backward to slow it down.

Figure 8. Transformer features
Running your train

Reverse unit procedure

The electronic reverse unit inside your Lionel locomotive acts like the transmission in a car. When you apply power to the track, the locomotive moves in the direction specified by the reverse unit—or it sits in neutral, awaiting another power interruption. Power interruptions are the signal that tells the reverse unit to sequence to the next operational state.

To interrupt power and sequence the locomotive's reverse unit, briefly bring the throttle lever all the way back to the OFF position. The reverse unit alternates between three states: forward, neutral, and reverse.

Also, the locomotive can be “locked” into a certain mode of operation by throwing the reverse unit switch located on the back of the cab. See Figure 9. To lock your locomotive into a specific operational state, sequence the locomotive into the desired state and reduce track power without completely powering down the locomotive, then throw the switch to the LOCK position. Power interruption will then have no affect on the direction of the locomotive. If you would like to resume forward-neutral-reverse operation, simply throw the reverse unit switch back to the RUN position.

Additionally, this reverse unit has a “power-up reset” feature. If the locomotive sits without power for an extended period of time, the reverse unit will automatically reset and start in the forward direction when the transformer is turned on or “powered up,” regardless of the reverse unit switch position. If the switch is in the LOCK position, the locomotive will start in the forward direction and be “locked” there.

![Figure 9. Switch locations](image-url)
Running your train

Operating the sounds in the baggage car

Your Baggage Car requires one nine-volt alkaline battery. To install the battery (not included), remove the screw from the end of the car, lift it off the frame, and gently push backward to release the catch. Attach the battery harness to the battery, then slide the battery into the holder. Replace the body onto the frame. See Figure 10.

The ON/OFF switch for the sounds is located on the underside of the baggage car.

Figure 10. Battery replacement and sounds switch
TrainSounds sound system operation

Operating the TrainSounds sound system

Your TrainSounds Tender was designed to operate at approximately 6 to 18 volts (AC). When you power up the locomotive on the track, you will hear the sounds of the idling steam locomotive. The chuffing intensity will increase proportionally with the locomotive's speed.

**Note!** Always operate the TrainSounds Tender with a lighted locomotive, an illuminated car, or lighted track bumpers. This power draw will prevent the whistle from sounding erratically.

**Whistle**
Press the WHISTLE button on your transformer to sound the whistle. The sound will play for as long as you hold the button.

**Brake squeal**
To activate the sound of squealing brakes, operate your locomotive at a rapid rate of speed for at least ten seconds, and then throttle down to a lower speed. The brake sounds will discontinue automatically after a few moments.

**Note!** If you are unable to activate the brake sounds, your locomotive’s speed may be too low. Increase the speed of the locomotive, operate for at least ten seconds, and then reduce the throttle by half.

**Crew dialogue**
When the locomotive and tender are not in motion, you may activate random crew dialogue using the WHISTLE button on your controller.

**Note!** The locomotive and tender must be powered up on the track and not in motion (in neutral) for the dialogue to play. Do not turn off track power.

<table>
<thead>
<tr>
<th>Press the WHISTLE button</th>
<th>Dialogue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stop/Power-up to about 35 seconds</td>
<td>“Stand by” dialogue</td>
</tr>
<tr>
<td>After 35 seconds</td>
<td>“Clear for departure” dialogue</td>
</tr>
<tr>
<td>After 60 seconds</td>
<td>Random, automatic crew dialogue</td>
</tr>
</tbody>
</table>

**Note!** If you activate multiple “stand by” dialogues during the first 35 seconds, the length of time before the “clear for departure” dialogue becomes 35 seconds, plus the length of the dialogue.
TrainSounds sound system operation

Adjusting the volume

Use the volume control knob on the underside of the TrainSounds Tender to adjust the volume. Refer to Figure 11.

![Volume control knob and switch location](image)

Figure 11. Volume control knob and switch location

Silencing the chuffing sounds

To silence the chuffing sounds, slide the switch on the underside of the tender to the OFF position. The user-activated whistle and bell are not silenced.
**CW-80 Transformer operation**

Powering your layout with the CW-80 Transformer

Your CW-80 Transformer provides a total output of five amps. The track outputs will deliver all of this power to the track when no accessories are connected to the Transformer. Keep in mind that connected accessories borrow some of this power. For example, if the accessories require two amps of the total five-amp capacity of the Transformer, you have three amps available for track power. This built-in flexibility will provide power for virtually any small-to medium-sized railroad. Also, available voltage depends on how much load is on the two outputs. Generally, track voltage and accessory voltage are 0-18 volts (AC) each.

This Transformer is capable of operating trains up to and including dual-motored AC locomotives. To operate at this level of track power, it may be necessary to disconnect any accessories. You may also attempt to lower the accessory voltage settings.

You may momentarily approach or exceed the five-amp limit of the CW-80 Transformer when pulling illuminated cars, fighting over grades with heavy loads, or operating accessories. When you reach five amps, the green light on the Transformer will begin to flash. This indicates that the Transformer is in “fold-back mode.” In fold-back mode, the Transformer is automatically reducing, or folding back, power. This gradual reduction in power provides interruption-free operation while you bring the amperage back down to a safe level.
Help your Lionel locomotive lead a long and productive life on your railroad by maintaining it properly.

We recommend that you purchase a Lionel Lubrication and Maintenance Kit (6-62927), available from your Lionel dealer. Two basic rules to keep in mind: *never* over-lubricate (a small amount will do), and avoid getting grease or oil on the locomotive’s wheels or your track. You’ll know your locomotive requires lubrication when visual inspection reveals dryness on the parts indicated in Figure 12. Remove accumulated dirt and dust before lubricating and always lubricate any locomotive emerging from prolonged storage.

![Diagram of lubrication points](Image)

*Figure 12. Lubrication points*
Replacing the traction tires

Your locomotive is equipped with one traction tire (Lionel part no. 620-8613-206). During the course of normal operations, the traction tire may become worn out. To replace the traction tire, use a 3/16” nut driver to remove the drive rod nut. Slip off the worn tire and position the replacement tire around the wheel. Carefully fit the tire into the groove. If you are uncomfortable with this operation, you may choose to have the traction tire replaced by your authorized Lionel Service Center.
Maintaining and servicing your locomotive

Replacing your locomotive’s lamp

Your locomotive is illuminated by one lamp, Lionel part no 600-0191-300. During the course of normal operations, the lamp in your locomotive may require replacement. Replacement lamps are available at your authorized Lionel Service Center or from Lionel Service in Chesterfield, Michigan.

1. Disengage the clips on the lantern housing from the slots in the bracket. Lift away the lantern housing.
2. Slide the lamp back towards the locomotive’s stack, then lift the lamp straight up from the bracket.
3. Install the replacement lamp, sliding it towards the front of the locomotive.
4. Press the lantern housing down into position on the bracket.

Figure 13. Lamp replacement
Maintaining and servicing your set

Troubleshooting

No lights or operation
Be sure that the CW-80 Transformer is plugged in and the wires are connected.

Train runs, but WHISTLE, BELL, and DIRECTION buttons do not work
Check track connections. The track must be connected to the “A” and “U” terminals on the Transformer.

No change when DIRECTION button is pressed
Be sure that your locomotive’s reverse unit switch is ON.

Accessory operation is intermittent or absent
Check for loose, shorted, or improper connections. Also, the accessory voltage may have been set too low for the accessory; refer to page 18 and reset the voltage to a higher level.

Locomotive runs slowly or lights dim at the far end of the track
On larger layouts, additional track resistance may cause reduced track voltage as the trains move away from the power terminal section. Install additional FasTrack terminal sections around your layout and connect them to your Transformer to distribute power.

Green light begins to flash
The power limit of the Transformer has been exceeded. The unit will gradually reduce power until the problem is corrected.

Bell button blows whistle
Switch the wire connections at the Transformer terminals. The U terminal should be connected to the outside (common) rail.
Lionel Limited Warranty Policy & Service

This Lionel product, including all mechanical and electrical components, moving parts, motors and structural components, with the exception of LIGHT BULBS, LED’s & TRACTION TIRES are warranted to the original owner-purchaser for a period of one year from the original date of purchase against original defects in materials or workmanship when purchased through a Lionel Authorized Retailer.*

This warranty does NOT cover the following:

- Normal wear and tear
- Light bulbs or LED’s
- Defects appearing in the course of commercial use
- Damage resulting from abuse/misuse of the product

Transfer of this product by the original owner-purchaser to another person voids this warranty in its entirety. Modification of this product in any way; visually mechanically or electronically, voids the warranty in its entirety.

Any warranted product which is defective in original materials or workmanship and is delivered by the original owner-purchaser (this warranty is non-transferrable) to Lionel LLC or any Lionel Authorized Service Station MUST be accompanied by the original receipt for purchase (or copy) from an Authorized Lionel Retailer*, will at the discretion of Lionel LLC, be repaired or replaced, without charge for parts or labor. In the event the defective product cannot be repaired, and a suitable replacement is not available, Lionel will offer to replace the product with a comparable model (determined by Lionel LLC), if available. In the event a comparable model is not available the customer will be refunded the original purchase price (requires proof of purchase from the Authorized Lionel Retailer* it was originally purchased). Any products on which warranty service is sought must be sent freight or postage prepaid (Lionel will refuse any package when postage is due). Transportation and shipping charges are not covered as part of this warranty.

NOTE: Products that require service that do not have a receipt from an LIONEL AUTHORIZED RETAILER* will be required to pay for all parts required to repair the product (labor will not incur a charge) providing the product is not older than 3 years from date of manufacture and is within 1 year from date of purchase. A copy of the original sales receipt is required.

In no event shall Lionel LLC be held liable for incidental or consequential damages.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you.

This warranty gives you specific legal rights and you may have other rights which vary from state to state.

Instructions for Obtaining Service

If service for this Lionel LLC product is required; bring the item, along with your DATED original sales receipt and completed warranty information (at the bottom of this page) to the nearest Lionel Authorized Service Station. Your nearest Lionel Service Station can be found by calling 1-800-4-LIONEL or by accessing the website at www.lionel.com.

If you prefer to send your Lionel product directly to Lionel, for repair you must FIRST call 586-949-4100 extension 9105 or FAX Lionel at 586-949-5429 or write to Customer Service, 26750 Twenty Three Mile Road, Chesterfield, MI 48051-2493. Please have the 6-digit Lionel product number, the date of original purchase, the dealer where the item was purchased and what seems to be the problem. You will receive a return authorization (RA) number to ensure your merchandise will be properly tracked and handled upon receipt at Lionel LLC.

Once you have your Return Authorization (RA) number, make sure the item is packed in its original Styrofoam inner container which is placed inside the original outer display box (this will help prevent damage during shipping and handling). This shipment MUST be prepaid and we recommend that it be insured with the carrier of your choice.

Please make sure you have followed all of the above instructions carefully before returning any merchandise for service. You may choose to have your product repaired by one of Lionel LLC’s Authorized Service Stations after its warranty has expired. A reasonable service fee should be expected once the product warranty has expired.

Warranty Information

Please complete the information below and keep it, along with your DATED ORIGINAL SALES RECEIPT. You MUST present this form AND your DATED SALES RECEIPT when requesting warranty service.

*A complete listing of Lionel Authorized retailers can be found by calling 1-800-4-LIONEL or by visiting our website at www.lionel.com.

Products that are more than 3 years old, from date of manufacture, are not applicable for warranty coverage, even if they have never been sold prior to this date. (Under no circumstance shall any components or labor be provided free of charge.)

Name ________________________________
Address ________________________________
Place of Purchase ________________________________
Date of Purchase ________________________________
Product Number ________________________________
Product Description ________________________________

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