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4-6-0 Passenger Ready-To-Run Set Owner's Manual

LionChief

Bluetooth®

CAUTION–ELECTRICALLY OPERATED PRODUCT

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

TRANSFORMER RATINGS–INPUT: 100-120VAC , 60 Hz. ; OUTPUT: DC 18V , 41.4 V A.

Thank You!

Welcome to the world of Lionel trains! You're off to a great start with this ready-to-run LionChief train set. This set features everything you need to get started—a wall-pack power supply, a huge, easy-to-assemble FasTrack oval, a string of detailed cars, a powerful Lionel locomotive that is equipped with RailSounds RC sound system, and a LionChief remote that controls all the action.

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 LionChief locomotive at the head end of your train!

Use this Owner's Manual to learn how to set up, operate, and maintain your train set for years of reliable operation.

FCC Statement

This device complies with Part 15 of the FCC Rules and with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

Made in China

Contains:

P/N: PB-03

FCC ID: 2ATPO-PB03

IC ID: 23236-PB03

LionChief® Remote control

The LionChief remote control is used to operate the locomotive. Easy to use, and with many enhanced features including a wider range of realistic sounds, such as chuff sounds and three buttons on the control to activate user-controllable announcements and engine sounds. Long-distance control and multi-engine operation on one layout are in your grasp with the Lion-Chief remote control system.

Bluetooth®

Incorporating Bluetooth® wireless technology into Lionel model trains opens a new world, integrating the tradition of model railroading with the latest smart-device technology. With Lionel's new LionChief app, you can control full operation and sounds directly from your Bluetooth enabled smart phone or tablet and operate multiple locomotives from the same device. LionChief is available to smartphone users and is compatible with all 2017 to current LionChief, LionChief Plus, S-Gauge, and HO Trains.

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Lionel®, LionChief®, LionChief Plus®, FasTrack®, RailSounds®, ElectroCoupler™, Plug-Expand-Play®, LEGACY®, LEGACY® Control System, Lockon®

Safety information

Operating your wall-pack power supply safely

Your Lionel wall-pack power supply 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 fourteen years of age.
- Parents should periodically inspect this product for potential hazards and, if necessary, have them repaired by a Factory Trained Authorized Lionel Service Station. In the event that such a condition exists, the transformer should not be used until it has been properly repaired. Visit www.lionel.com for a list of authorized Service Centers.
- The wall-pack power supply is intended to be used indoors. Do not use this device if water is present. Serious or fatal injuries may result.
- Use the wall-pack power supply only for its intended purpose.
- The wall-pack power supply was designed to operate on 100-120 volt AC, 60-Hertz power. 18 VDC output. Do not connect this product to any other power supply.
- Do not operate the wall-pack power supply 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 a Factory Trained Authorized Lionel Service Station.
- Do not operate the wall-pack power supply on your layout unattended. Obstructed accessories or stalled trains may overheat, resulting in damage to your layout.
- Always unplug the wall-pack power supply 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.

ATTENTION!

Your new Lionel LionChief 4-6-0 Locomotive and Tender has unique wiring that makes it different from other LionChief products. We strongly discourage mixing the 4-6-0 Locomotive or Tender with ANY other LionChief Locomotive or Tender.

Running the 4-6-0 engine with a different style tender, or the 4-6-0 tender with a different style engine WILL result in damage to the unit's electronics and void the product warranty.

All O Gauge rolling stock is interchangeable between locomotives types.

LionChief system basics

Model railroading with the LionChief system

Your ready-to-run LionChief train set comes with a DC wall-pack power supply, a LionChief remote control, a LionChief-equipped locomotive, rolling stock, and a FasTrack oval, complete with a wall-pack terminal section for simple and easy set up.

Your locomotive runs on fixed voltage, which is optimal for the sound system, smoke system, and lamps. The locomotive listens to commands from its LionChief remote at a specific frequency to increase or decrease speed, change directions, or trigger sounds. That's why the locomotive and remote must be operated as a matched pair.

The DC wall-pack power supply is capable of running the locomotive and cars that come with this set, plus a few add-on cars and accessories, depending on the power they require. Keep in mind that your locomotive can run on AC power, too, so you may choose to upgrade to most Lionel or Lionel-compatible AC transformers (available separately at your authorized Lionel retailer) when you expand your layout.

Important! Run only your layout with only the DC wall-pack power supply OR an AC transformer. Do not run both! Also, keep in mind that most other Lionel locomotives require AC power specifically; check the instructions included with the other locomotives.

If you do choose to run your LionChief locomotive with a transformer, set the train voltage to full (18 volts) and use the remote to run the train and trigger the sounds. The locomotive is not designed to respond to the transformer's throttle, direction button, horn button, or bell button; the locomotive only responds to commands from its LionChief remote.

Keep in mind that the remote that comes with the train set is paired with the locomotive. This locomotive and remote share a frequency, and your LionChief remote will not communicate with other locomotives. However, locomotives of the same may share a frequency. Where the frequency is shared, any locomotive of the same type on the track would respond together, at the same time, to commands from a remote. To avoid this scenario, you may choose not to run multiples of the same locomotive type at the same time.

Otherwise, you may run more than one LionChief-equipped locomotive on the track at the same time. You may also choose to run your LionChief locomotive on a LEGACY Control System-equipped layout; however, you must use your LionChief remote control to control the LionChief locomotive (LionChief locomotives do not receive commands from the LEGACY remote).

The LionChief remote control overview

Installing AAA batteries into the Remote Control

For safety purposes, you must use a Phillips screwdriver to access the battery compartment. Use a Phillips screwdriver to remove the screw that secures the battery compartment hatch and lift the hatch to access battery compartment (as shown in Figure 1). Insert three AAA batteries orientating the +/- as shown in the bottom of the battery compartment. Replace the battery door and and retighten the screw using a Phillips screwdriver.

Important! Use only Alkaline AAA batteries. Use only new batteries. Never mix new and used batteries or use different types together.

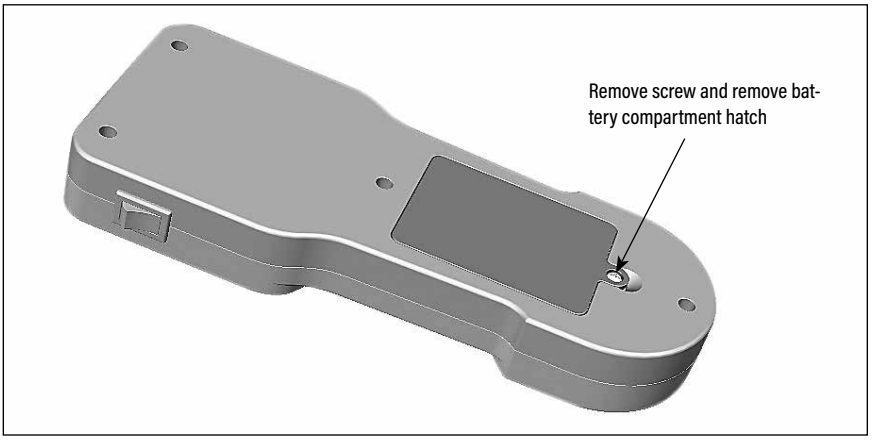


Figure 1. Opening and closing the battery compartment

Important! **REMOVE ALL BATTERIES WHEN THE TRAIN WILL NOT BE USED FOR AN EXTENDED PERIOD OF TIME. LIONEL'S LIMITED WARRANTY DOES NOT COVER DAMAGE TO YOUR REMOTE CAUSED FROM LEAKING BATTERIES.**

Important! **When you are not operating the train, flip the On/Off switch to the Off position to conserve the batteries.**

The LionChief remote control overview

Operating your train with your LionChief remote

THROTTLE
Control speed and direction with the knob. Turn the knob to the right to move forward, left for reverse and back to center (top) for stop. The LED indicator light will flash to indicate that speed signals are being sent to the locomotive.

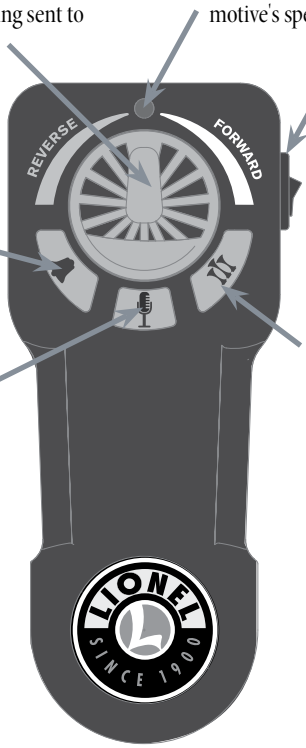
SPEED INDICATOR LIGHT
The red light will remain on during normal operation. The light will begin to flash when the locomotive is in motion, and the flashing will vary with the locomotive's speed.

ON/OFF SWITCH
Turn remote control on and off. We recommend turning off the remote when not in use to conserve battery life. Remove the batteries for storage.

BELL
Press the BELL button to begin the bell sounds; press the button again to turn off the bell.

ANNOUNCEMENTS
Press the center button for a variety of announcements.

WHISTLE
The WHISTLE button will activate your locomotive's whistle.



Note! The announcement button doubles as a 'shift' button. To change the volume, make sure the engine is stopped, hold shift, and rotate the throttle knob. Clockwise for more volume, counterclockwise for less volume.

The LionChief locomotive overview

Locomotive Overview

Your LionChief locomotive is designed to operate with commands from its corresponding LionChief remote. You may choose to power it with the wall-pack power supply included with this ready-to-run train set, or you may choose to expand and upgrade to essentially any Lionel or Lionel-compatible AC transformer. Even DC transformers will work to power this particular locomotive!

Smoke

Your locomotive features an operating smoke unit that produces safe, clean, white smoke. Always keep a small amount of smoke fluid in the smoke unit when you are running your locomotive with the smoke unit in the On position. Slide the smoke unit switch to the Off position if you do not want to operate the locomotive with smoke or you choose not to add smoke fluid. For more information, please see page 10.

Additional Lionel Premium Smoke Fluid is available separately when you deplete the sample.

LionChief RC sound system

Your locomotive features a wide range of sounds to make operation even more realistic and impressive! The steam chuffing sounds are coordinated with the blasts of smoke from the smokestack, and they increase with the speed of the locomotive.

Use the whistle, bell, and announcement buttons on the LionChief remote control to trigger those sounds. See page 7 for more information.

Keep in mind that the speaker is housed in the tender. Ensure that the drawbar is connected properly for good electrical contact.

Care and maintenance

A few simple precautions will help to ensure a long life for the locomotive:

- Lubricate the wheels, axles, and linkage regularly to avoid squeaks and wear. See page 21 for complete details.
- Avoid squeezing and bending the side rods and linkage when handling and packing the locomotive to prevent binding.

Getting ready to run your trains

Building your Lionel layout

Your set comes with eight O36 curved sections, two 10" straight sections, one wall-pack terminal section of track, and one 10" Plug-Expand-Play power lock-on track section. Figure 2 shows the oval layout that you can build with these track sections. You may choose to add more FasTrack track sections to create an endless number of exciting track arrangements for more fun, action, and variety.

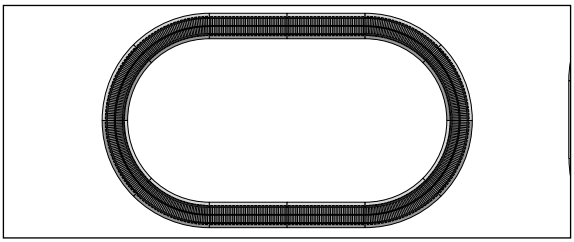


Figure 2. Track layout

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.

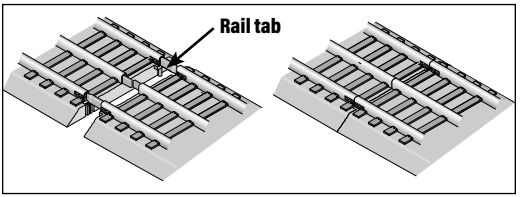


Figure 3. Joining the track sections

Connecting your wall-pack power supply

Your trains are powered by a DC wall-pack power supply. To power the track, simply plug the wall-pack into an outlet and plug the jack into the terminal section as shown in Figure 4.

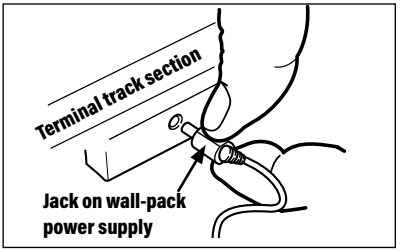


Figure 4. Wall-pack power supply connection

Operating your train set

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 below for the location of the switch.

The smoke generator requires the periodic addition of Lionel smoke fluid in order to function. We recommend you only use Lionel Premium Smoke Fluid. Add about 4-6 drops of fluid directly into the locomotive's stack. Smoke production commences momentarily. When smoke production decreases, add more fluid (about four drops). An idle locomotive will not smoke.

If the locomotive has been idle for a minute or longer it will likely take 20-30 seconds for smoke to be visible once the locomotive begins moving from the idle position.

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! When the smoke unit switch is in the ON position, always keep a small amount of smoke fluid in the locomotive's smoke generator; the generator's element can become damaged if operated without smoke fluid. This is particularly true if your locomotive sits in neutral for an extended period of time without smoke fluid in the generator.

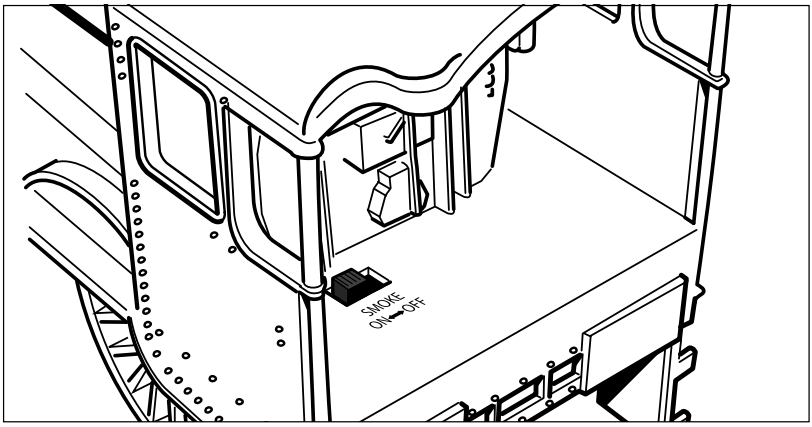


Figure 5. Switch locations

Operating your train set

Running your train set

1 **With track power unplugged, place your train set on the track.**
Refer to the following section for information on coupling the cars.

2 **Couple the locomotive to the tender that was included with this set**

Fit the tab on the locomotive drawbar into the slot on the tender's drawbar as illustrated in Figure 6. Note that the drawbar connection connects the locomotive and tender electronically. Make the connection securely to ensure good electrical contact.

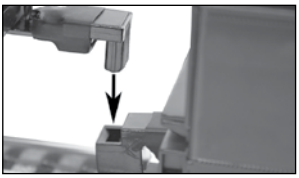
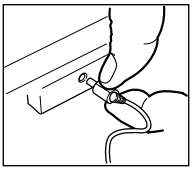


Figure 6. Drawbar connection

Caution! To prevent damage to the electronics, only couple the locomotive to the tender that was included with this set. Do NOT mix and match LionChief locomotives and tenders.

3 **Plug in your wall-pack power supply, connect it to the track, and switch on the remote.**



4 **Move 'em out!**

Use your remote to run your train. You can adjust the speed in forward or reverse, blow the whistle, sound the bell, or trigger an announcement. Refer to page 7 for complete details.



5 **Unplug the wall-pack power supply when you are done running your trains.**

Switch off your remote control to conserve the batteries.

Operating your train set

Triggering announcements with your LionChief remote control

Your locomotive plays a variety of announcements that are designed to match the way you play with the locomotive. You can trigger an announcement that corresponds to each part of the journey.

When the locomotive is…	The announcement states…
Stationary:	
Press Announcement:	Stationary announcement 1
Press Announcement:	Stationary announcement 2
Moving:	
Press Announcement:	Moving announcement 1
Press Announcement:	Moving announcement 2
Press Announcement:	Moving announcement 3
Press Announcement:	Moving announcement 4

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 section of track.

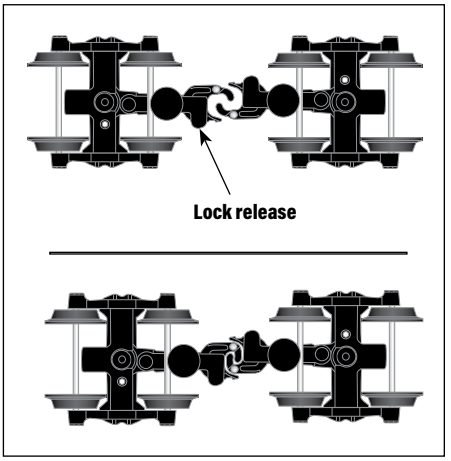


Figure 7. Coupler operation

Operating your train set

The Lionel Plug-Expand-Play lock-on

Included with your set is a complementary single port Plug-Expand-Play lock-on compatable with any Plug-Expand-Play accessory; however, this lock-on will not work with animated accessories. (To obtain a lock-on designed to trigger an animated accessory based on the presence of a train you need the 6-81317 Accessory Activator Lock On.) Each accessory has a cable attached to its base that plug into the lock-on's 3-pin female connectors.

This piece of FasTrack only uses 2 of the 3 terminals in the attached lock-on; red and black, connected under the track. The red wire connects to the center rail to supply power to the accessory. The black wire connects to the outside rail to supply ground power to the accessory. The white wire is not used with this item. See below.

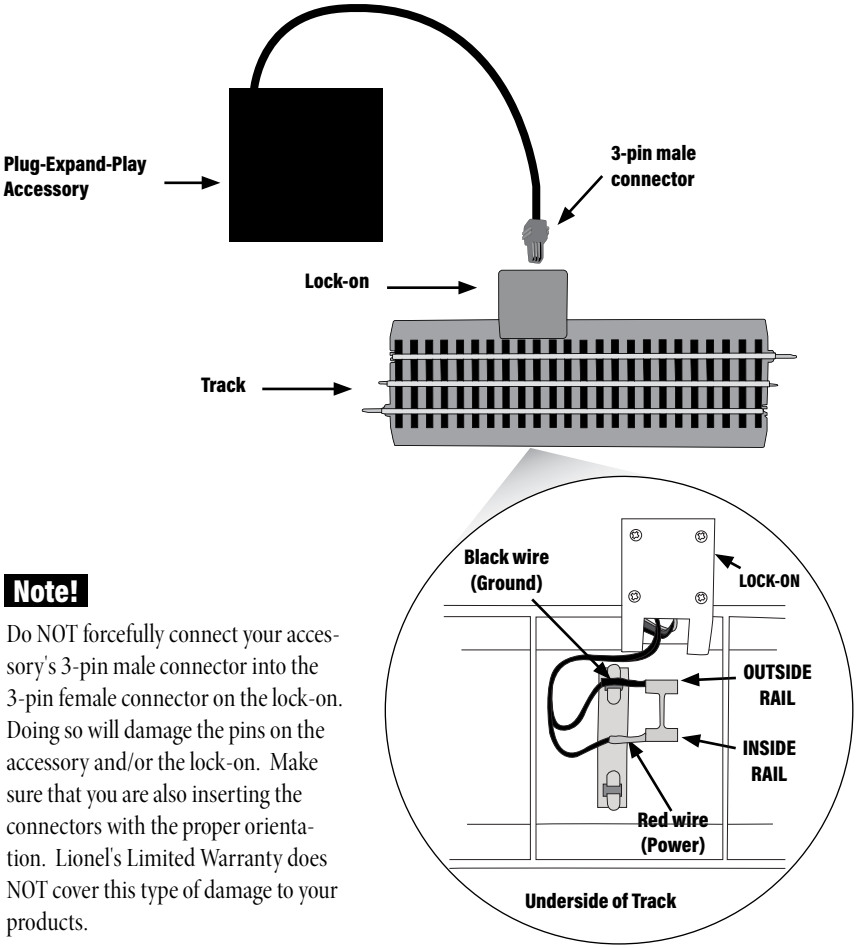


Figure 8. Connecting a Plug-Expand-Play accessory

Note!

Do NOT forcefully connect your accessory's 3-pin male connector into the 3-pin female connector on the lock-on. Doing so will damage the pins on the accessory and/or the lock-on. Make sure that you are also inserting the connectors with the proper orientation. Lionel's Limited Warranty does NOT cover this type of damage to your products.

Installing and Using the Cab 3 App

Installing the Cab 3 App

To control your LionChief train set via Bluetooth® wireless technology, download the Cab 3 app to your iOS or Android Smart Device. Easy download instructions can be found by scanning the QR code below.



control.lionel.com/docs/installing-the-app/

Figure 9. QR code to install the Cab 3 app

Using the Cab 3 App

Running your LionChief trains with Bluetooth® 5.0 wireless technology equipped control has never been easier! Scan the QR code below for detailed instructions on how to run your LionChief set equipped with Bluetooth® control and access all the additional features your newly purchased train set has to offer!



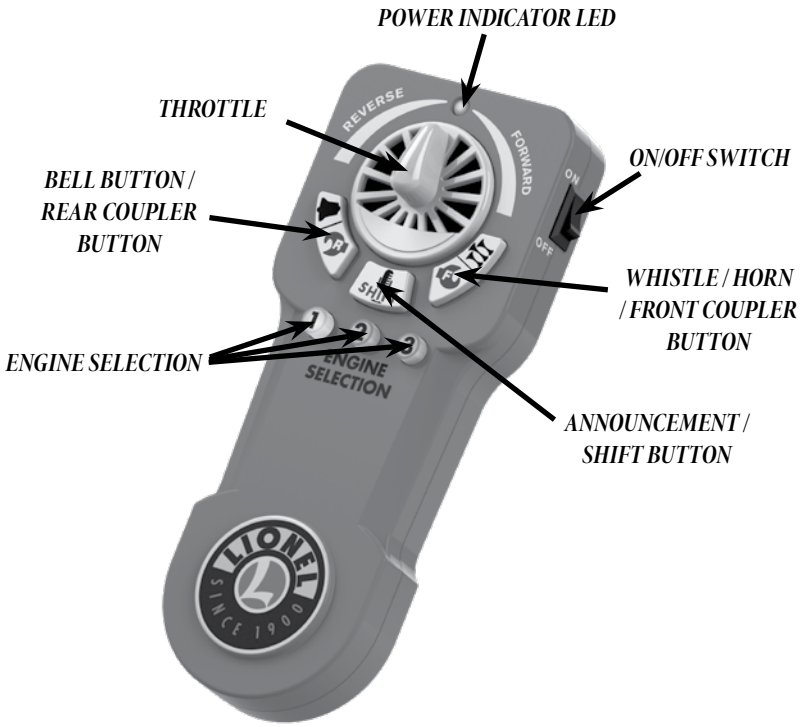
control.lionel.com/docs/cab3-bluetooth-mode/

Figure 10. QR code for instructions on utilizing Cab 3 mode

Using the LionChief Universal Remote

The LionChief Universal Remote (6-83071)

Note! *Please refer to your LionChief Universal Remote manual for in-depth details of operation.*



POWER INDICATOR LED

When solidly illuminated, this red LED indicates the remote is turned on. When the remote pairs with a locomotive it will visually reflect the speed on the locomotive; solidly illuminated for idle, slow to fast blink, based on the speed of the locomotive. If the LED does not illuminate when the remote is switched on, the batteries need to be replaced.

ANNOUNCEMENT / SHIFT BUTTON

Press and release the announcement button to activate the locomotive's announcements. Press and hold the Announcement button for it to function as a "shift key".

ON/OFF SWITCH

Use this switch to turn the Universal Remote on and off. We recommend you turn the remote off when not in use to conserve battery life.

Using the LionChief Universal Remote

The LionChief Universal Remote continued

WHISTLE / HORN / FRONT COUPLER BUTTON

Press the Whistle / Horn button to activate the horn / whistle. To activate the front coil coupler on the locomotive press and hold the Announcement button down and, using another finger, press and release the Whistle/Horn button to activate the front coupler. Then release the Announcement/Shift button.

BELL BUTTON / REAR COUPLER BUTTON

To turn the bell on, press the bell button one time. To turn the bell off press the button again. To activate the rear coil coupler on the locomotive press and hold the Announcement button and, using another finger, press and release the Bell button to activate the rear coupler. Then release the Announcement/Shift button.

ENGINE SELECTION

1, 2, 3

Each Engine Selection button represents a channel for controlling one LionChief, LionChief Plus, or Legacy Bluetooth locomotive. Each of these buttons may be "paired" with a different locomotive. Once paired, you can control multiple locomotives from one remote by pressing an Engine Selection button, then using the throttle, horn, bell, etc..

Note! Your remote will remember all locomotive pairings when you turn everything back on for your next operating session.

THROTTLE

Turn the throttle clockwise slowly to increase speed in the forward direction. Returning the throttle to the top dead center position will bring the locomotive to a stop. Moving the throttle counterclockwise will increase the speed of the locomotive in reverse. The Throttle also functions as the volume control for LionChief Plus locomotives. Refer to "Adjusting the locomotive volume" section in this manual for more detailed information.

Using the LionChief Universal Remote

Adjusting the locomotive volume with the Universal Remote

To adjust the overall volume of the locomotive's sound system begin by placing the throttle in the top dead center position (so the red LED is solidly illuminated and the locomotive is stopped). Press and hold the Announcement button then turn the throttle to the left and / or right, this will increase and decrease the overall locomotive volume. Continue holding the Announcement button when turning the throttle, you can stay in this mode until the volume is at the level you desire. Once the volume level is set to the level you want release the Announcement button and return the locomotive throttle to the top dead center position again. (The new volume level will remain until you change it in the future, even after power has been cycled.) If, after running the locomotive, you decide to change the volume, simply follow the steps above to do so.

Note! If the throttle is not in the top dead center position before or after the volume adjustment process undesired operation will occur. Always start and finish the volume adjustment process with the throttle in the top dead center position!

Pairing locomotives to the Universal Remote

Your Universal Remote can connect or "pair" to one, two or three different locomotives at a time. Each "target" locomotive will be associated with one Engine Selection Button. Once you've paired with a locomotive, you can run it.

However, only "available" locomotives can be paired with the Universal Remote. "Available" means "not currently controlled by any other remote." An available locomotive will be powered up and beeping or chirping (older LionChief locomotives will play locomotive background sounds when available).

To Pair a Locomotive to Engine Selection button #1

1. Turn on power to your Universal Remote
2. Press and hold Engine Selection button #1 until it blinks rapidly. This will clear any previously stored pairing information so you can connect to the new target locomotive.
3. Release the button. It should flash slowly, indicating it is not connected to a locomotive.
4. Place the target locomotive on the track and apply track power.
5. Tap and release Engine Selection button #1. The remote will now seek and connect to the first available locomotive it finds.
6. Engine Selection button #1 should now be on (no flashing) and if the locomotive was beeping or chirping, it should now be playing engine background sounds.
7. Run the locomotive!

This locomotive pairing is now stored in your Universal Remote. The next time this engine and remote are powered on, the connection will be automatically re-established.

To Pair a Locomotive to Engine Selection buttons 2 or 3, simply follow the same steps with the other two Engine Selection Buttons.

Note! Legacy locomotives cannot be operated by the Universal Remote if they are already under the control of the App or another Universal Remote.

Using the LionChief Universal Remote

Operating locomotives with the Universal Remote

Now that you have paired locomotives with the Universal Remote its time to run trains! Operation with the Universal Remote is very similar to using the basic remote included with your locomotive. Switch between the locomotives you want to control by pressing different Engine Selection buttons.

Using the Throttle with multiple locomotives

Familiarize yourself with the Universal Remote by putting just one locomotive in motion at a time. Once you are comfortable as to which button is paired to what locomotive, try putting multiple locomotives in motion using the Universal Remote.

As soon as you press a different Engine Selection button, you can command the newly selected engine to blow its whistle, ring the bell or trigger dialog. However, throttle control does not automatically switch!

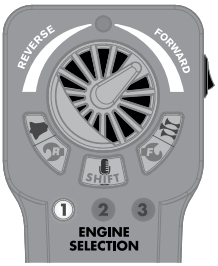
To take throttle-control of the selected engine, you have two choices: You can make the locomotive match the remote's current throttle position—or—you can change your remote's throttle position to match the engine's current speed and direction.

To immediately force the engine to match the throttle, just press that Engine Selection button a second time. The locomotive will immediately honor the current position of your throttle. This may result in an abrupt change in speed and/or direction.

Option two will avoid the possibility of an abrupt speed change. After pressing the Engine Selection button once, manually turn your throttle knob until it matches the locomotive's current speed and direction. Once you've matched the knob position, the main red LED will begin flashing at a rate proportional to the engine's speed. From this point on, further throttle rotation will change the engine's speed and/or direction.

Here's an example showing the "throttle matching" option in action.



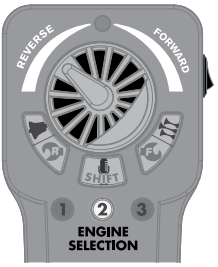


Engine #1 (above) is a diesel with throttle set for forward direction, medium speed.

Using the LionChief Universal Remote

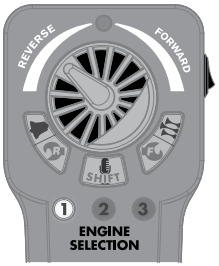
Operating locomotives with the Universal Remote continued



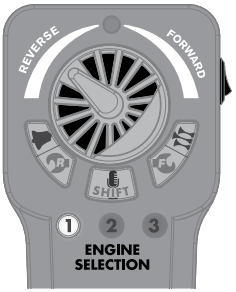


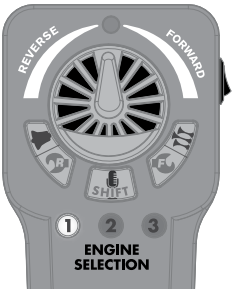
Engine 2 (above) is a steamer at stop. Press Engine Selection button #2 and turn the throttle counter-clockwise through the 12 o'clock (stop) position and continue to put this loco in reverse at slow speed. Meanwhile, notice that engine #1 is still moving forward as before.

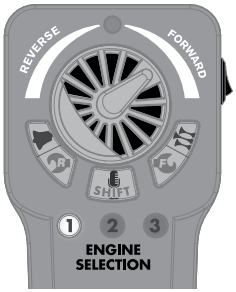




Now, switch back to engine #1, the diesel. Note that even though the throttle is in the reverse/slow speed position, the diesel continues moving forward at medium speed.







Match!

To regain speed and direction control over diesel locomotive #1, you must match the throttle position to the engine's current speed and direction. Turn the throttle clockwise. Once you've matched the throttle position, additional throttle adjustments will again cause speed and direction changes of the currently selected engine.

Maintaining and servicing your set

Lubricating your locomotive

Help your steam 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, contact rollers, or your track.

You'll know your locomotive requires lubrication when visual inspection reveals dryness on the parts indicated in Figure 11. Remove accumulated dirt and dust before lubricating, and always lubricate any locomotive emerging from prolonged storage.

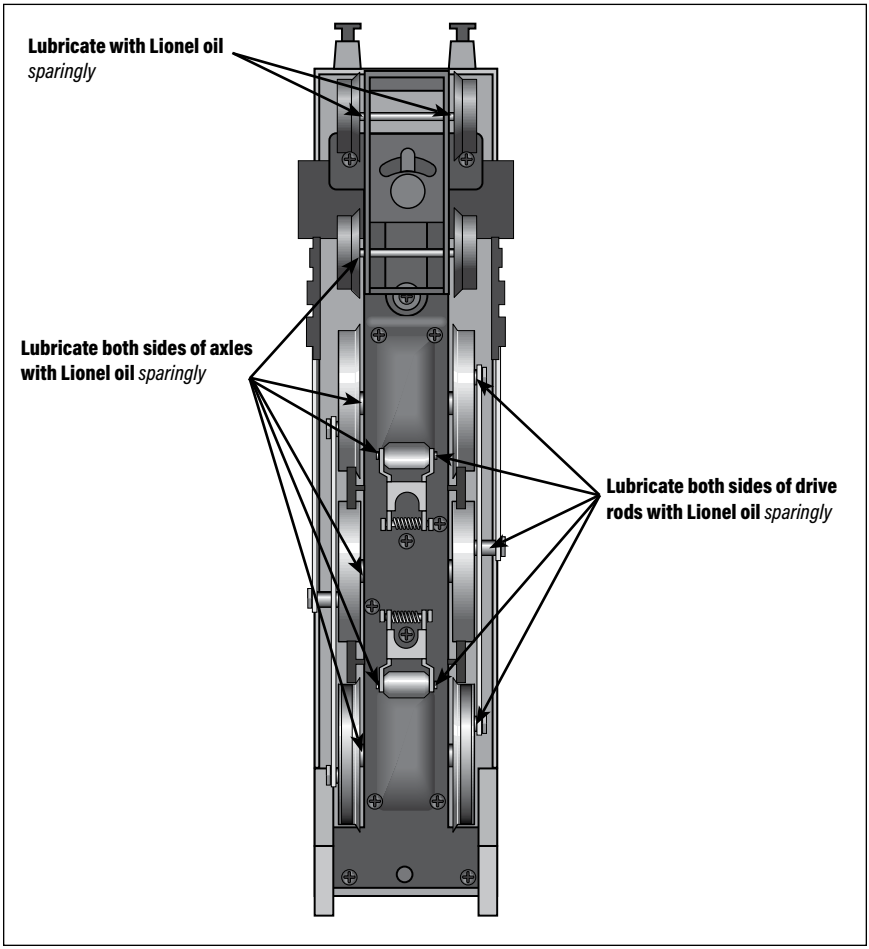


Figure 11. Lubrication points

Maintaining and servicing your set

Replacing your locomotive's traction tire

One of the locomotive's drive wheels is fitted with a rubber traction tire to enhance tractive effort, allowing your locomotive to pull many cars at once.

To replace the traction tire, simply unscrew the drive rod nut from the wheel using a 5.5mm nut driver. Refer to Figure 12. Remove the old traction tire from under the drive rod and slip on the replacement. Replace the spacer, retighten the drive rod nut, and you're ready to pull that long freight back to the yard.

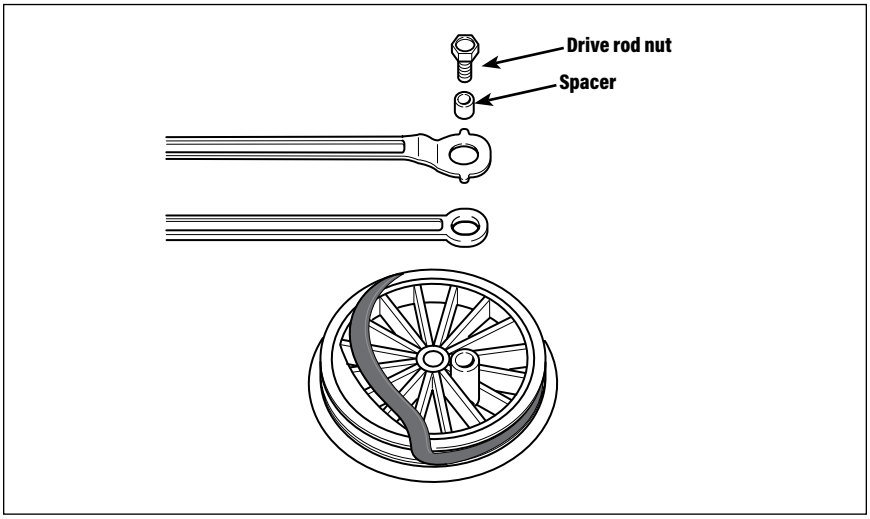


Figure 12. Traction tire replacement

Replacing the LEDs in your locomotive and passenger cars

Your locomotive and passenger cars are equipped with LEDs for longer life. Please contact your nearest Factory Trained Authorized Service Station or Lionel Customer Service in Concord, NC if they need replacing.

Wall-pack power supply

CAUTION-ELECTRIC TOY

Not recommended for children under 14 years of age. As with all electric products, precautions should be observed during handling and use to prevent electric shock.

MODEL: HKYF45-180230T-US
INPUT: 100-120VAC, 60Hz
OUTPUT: 18VDC, 41.4VA

Keep these instrutions for futher reference. They contain important information.

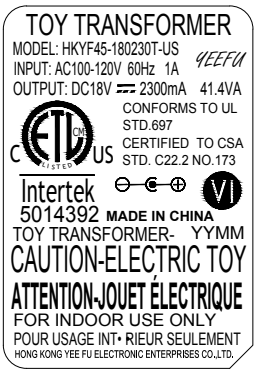
OPERATION:

1. **Plug the transformer into standard wall oulet**
2. **Connect the transformer to the appliance**
3. **Turn off the appliance and unplug the transformer from the wall outlet when not in use.**

SPECIAL NOTE TO ADULTS:

- This transformer is age-graded for ages 14 and over, the transformer should not be operated in the presence of children under 14 without adult supervision. Adult supervision is recommend.

- It is recommended that the toy transformer 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) and that, in an event of such conditions, the transformer should not be used until properly repaired.



FCC Statement

FCC Statement

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user 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 equipement 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.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Parents! **The adaptor should be periodically examined for the conditions that may result in the risk of fire, electric shock, or injury to persons and that, in an event such conditions , the adaptor should not be used until properly repaired.**

LionChief Troubleshooting

Problem: The power indicator LED on the terminal track is not illuminated.

Resolution:

If any of the wheels of the train are not properly positioned on the rails, a short circuit will occur and the circuit breaker inside the transformer will prevent power from being applied to the track until that short circuit is removed.

Remove the locomotive and all cars from the track. With no trains on the track check to see if the LED is illuminated. If it is not illuminated, disconnect the track one piece at a time until the LED comes on. If the problem is a section of track, the LED will illuminate when that section of track is removed from the layout.

Now disconnect the barrel jack from the terminal section and place only one car on the track once the car is on the track reconnect the barrel jack into the terminal section. The LED should be illuminated, if it does illuminate, disconnect it again and place another car on the track. Repeat this process until the entire train, including the locomotive, is on the track.

Problem: One or more of the illuminated cars will not light.

Resolution:

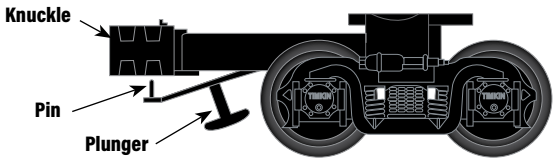
The lamps in your trains are designed for easy replacement in the event they burn out over time. It is possible that a lamp can become disconnected in transit; as such we suggest you first check the lamp in its socket to ensure it is seated properly.

The lamps inside the cars and locomotive get their power from the rails. There are two wires connected to the trucks on each illuminated car. One wire connects to the center rail collector (roller), and one wire attaches to a contact for the axles that ride on the outside rails. Because the trucks are able to pivot back and forth, it is possible that one or both of these wires may become disconnected from these contacts and short out when they touch one another. The wires can be reconnected by having an adult solder them to their contacts. You may want to take the item to a local Factory Trained Authorized Lionel Service Station for this repair.

Problem: The train cars will not stay coupled to one another.

Resolution:

The couplers on each car come equipped with an uncoupling plunger, which allows you to uncouple the cars using an Uncoupling Section. These plungers have a pin which holds the knuckle closed, sometimes the plunger will need to be bent upwards slightly to ensure the pin holds the knuckle shut. Use a pair of needle-nosed pliers to bend the plunger upwards slightly. This operation is shown in the illustration below.



LionChief Troubleshooting (continued)

Problem: I do not hear any sounds from the locomotive.

Resolution:

The drawbar, which connects your locomotive to its tender, serves two purposes. It connects the locomotive and tender together and it serves as a four-conductor tether responsible for transferring the speaker leads from the electronics inside the locomotive to the speaker inside the tender. Ensure the male side of the drawbar (locomotive side) is fully and properly inserted into the female side of the drawbar (tender side) and that the tops of each side of the drawbar are even with one another.

Problem: The locomotive does not smoke.

Resolution:

Ensure the smoke on/off switch is in the "on" position. The locomotive must be moving for smoke to be seen ejecting from the stack. The locomotive will not smoke when sitting at idle. Ensure you have added 4-5 drops of Lionel Liquid Smoke Fluid. It should only take 5-10 seconds for smoke to vaporize and begin being ejected from the stack once the train begins to move. If you do not plan to use the smoke feature on this locomotive be sure the smoke on/off switch is placed in the "off" position, so no damage occurs to the smoke generator.

Problem: The LionChief Remote will not control the locomotive.

Resolution:

First, ensure the remote you are using to control the locomotive is the proper one, mated to that locomotive. Reference the road name and road number printed on the remote with the road name and road number of the locomotive you are trying to control. Second, ensure you have installed three new Alkaline AAA batteries into the remote and the on/off switch is set to the "on" position.

The red LED at the top of the remote should be on steady when the speed dial is in the top dead center position.

The LED will begin to blink when the throttle knob is turned in either direction, slowly to quickly, mimicking the speed you set for the locomotive. The sounds in the locomotive should be on when you attempting to make the train go. If your locomotive will not move, you will need to take both the wireless LionChief remote and the locomotive and tender to a local Factory Trained Authorized Lionel Service Station or contact Lionel Customer Service for further assistance.

Notes

Notes

Lionel Limited Warranty Policy & Service

This Lionel product, including all mechanical and electrical components, moving parts, motors and structural components, with the exception of **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
- Defects appearing in the course of commercial use
- Damage resulting from abuse/misuse of the product
- Damage resulting from consumer or unauthorized attempted repair or modification

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 **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 with prior Return Authorization # from Lionel freight or postage prepaid (Lionel will refuse any package when postage is due). Lionel is not responsible for any unauthorized contents of the package or shipping packaging or materials or any package sent without prior authorization. **Transportation and shipping charges are not covered as part of this warranty for international shipments.**

NOTE: Products that require service that do not have a receipt will not be serviced by Lionel. Any product sent to Lionel under a Return Authorization and not accompanied by a receipt; the return shipping costs will be the responsibility of the customer.

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 you must FIRST call 1-800-4LIONEL (1-800-454-6635), Email Talktous@lionel.com, or write to Lionel Customer Service, 6301 Performance Drive, Concord, NC 28027. Please have the Lionel product number and original receipt showing the date, location of original purchase, and description of 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 well packed to protect during shipping. (The original packaging was designed to protect product during transit).

Please make sure you have followed all of the above instructions carefully before returning any merchandise for service.

Warranty Information

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.)

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