

TECHNICAL SERVICE BULLETIN



DEPARTMENT OF COMPLIANCE
VEHICLE SAFETY AND RECALL MANAGEMENT
BUILDING 11
423 N MAIN ST
MIDDLEBURY, INDIANA 46540-9218

Technical Service Bulletin: 210-1321

- o *Integrity*
- o *Safety*
- o *Quality*
- o *Customer Service*

<<VIN>>

<<OWNER NAME/DEALERNAME>>

<<ADDRESS>>

<<CITY>>, <<ST>> <<ZIP-XXX>>

May 6, 2021

This Notice applies to your vehicle VIN listed above.

Dear Forest River Customer:

Forest River is alerting you to an issue involving certain 2021 Coachmen Leprechaun Class C Motorhome recreational vehicles. Please see the information below, which describes the issue and provides you with details on the steps you should take to have your vehicle repaired.

WHAT IS THE ISSUE?

The Auto Generator Start Control Panel Safety Option circuit is not properly grounded. The generator will not function/start as designed by auto-starting if the house batteries need charging.

OWNERS: WHAT SHOULD YOU DO?

Please contact your dealer and request a service appointment to schedule the free repair. The vehicle Owner is responsible for arranging to have the work completed. Please state you have been notified by Forest River of the issue and provide the TSB number (located at the top of this page) to the dealership. It is also helpful to give the dealership a copy of this letter when you take your vehicle in for the repair.

You may visit www.forestriverinc.com to search for dealer locations.

HOW LONG WILL THE REMEDY PROCESS TAKE?

The estimated time of repair is .5 hours. However, the dealership may need to keep your vehicle or schedule an appointment with you for a later date to fit into their regular service schedule.

DEALERS: WHAT SHOULD YOU DO?

Dealer Service Procedure can be found on Dealer Connect

Repair Codes:

Pictures are required for the remedy and/or inspection after installation.

Pictures of the remedy are a condition of payment in which must be provided with a claim against the repair code(s).

DEALER REPAIR CODES: Dealer Connect

TSB NUMBER	REPAIR CODE	DESCRIPTION	ALLOWABLE HOUR(S)
210-1321	SB-386-05-00-004037	INSPECT/TEST CONTROLLER FOR AUTO GEN START	.2 HRS
210-1321	SB-386-22-00-004038	PROGRAM CONTROLLER FOR AUTO GEN START	.5 HRS

HELPFUL CONTACT INFORMATION

CONTACT	PHONE
LEPRECHAUN CUSTOMER SERVICE	(574) 825-8602

WHAT IF YOU HAVE PREVIOUSLY PAID FOR REPAIRS TO YOUR VEHICLE FOR THIS PARTICULAR CONDITION?

If you have already paid for a repair that is within the scope of this service bulletin, you may be eligible for a refund of previously paid repairs. Refunds will only be provided within the scope of this Technical Service Bulletin.

Please send the service invoice to the following address:

Leprechaun
Forest River, Inc.
Attn: Warranty Manager
423 N Main St.
Middlebury, IN 46540

TECHNICAL SERVICE BULLETIN 210-1321 REMEDY INSTRUCTIONS

	Make(s): Leprechaun Class C Motorhomes Model(s): Many, See Below Model Year(s): 2021	Repair Code: SB-386-22-00-004038 Allotted Time: .50 HRS. Inspection Code: SB-386-05-00-004037 Allotted Time: .20 HRS
	Concern: The Auto Gen Start control panel will not program to go into AUTO ON mode and operate as designed.	Photo(s) Required: Yes Prior Authorization Required: Yes Part(s) Number: F100194776 Part(s) Return: No

Disconnect the vehicles' battery Positive and Negative, disconnect any House battery(s) Positive and Negative, if equipped with a generator ensure it is off and lastly, ensure the vehicle is disconnected from shore power. Block any tires/wheels to prevent the vehicle from rolling. Failure to do so may result in electrocution, fire or other personal injury, property damage and/or death.

Models affected: LPC260DSF, LPC298KBF, LPC311FSF and LPC319MBF

Tools Required: #2 Square Bit Screwdriver
Wire Cutter & Stripper



Parts Required: (1) 3 position AWG 24-12 WAGO connector, CRV part # F100194776

Steps for Correction:

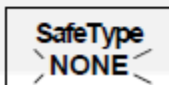
STEP 1: Verify that the Auto Gen Start control panel cannot be programmed into AUTO ON mode. It will continue to ask for Safe Type feature and will not go to the ENTER for auto option. The screen will not leave the Safe Type query.

SETUP AUTO Displays

The SETUP AUTO displays may be used to change the automatic starting parameters. AUTO< is the default value. The symbol < indicates the factory default value.

SafeType Display

The SafeType display allows the selection of the type of safety input that is used to prevent automatic operation. It should be setup the very first time the unit is turned on as described earlier. If it has not been setup (SafeType NONE), automatic operation will not be allowed. If the AUTO GEN key is pressed, the display below will appear:



STEP 2: Turn off the battery disconnect and remove the Chassis ground cable from the house battery located under flip up cover in the entryway step well. Motorhome should not be plugged into shore power or have the generator operating at this time either.

STEP 3: Remove the face cover of the Auto Gen Start Control panel to reveal the two screw fasteners.



STEP 4: Remove the two screw fasteners and pull the control panel and wiring harness away from the wall, exposing the 12 pin connector and wire harness. Pull as much of the wire harness out as possible to give room to work with the wires (cut and connect).

STEP 5: Disconnect the connector from the control panel; set control panel safely nearby (countertop).

TECHNICAL SERVICE BULLETIN 210-1321 REMEDY INSTRUCTIONS

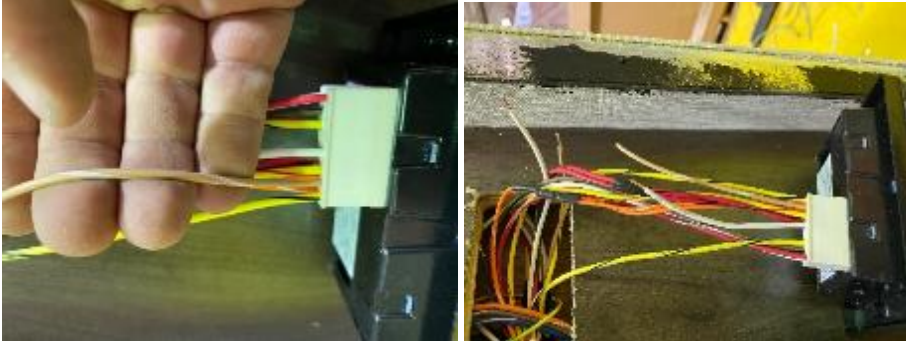


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STEP 6: Locate the tan/white wire in position 15 on the connector and cut the wire 6-8 inches beyond connector.



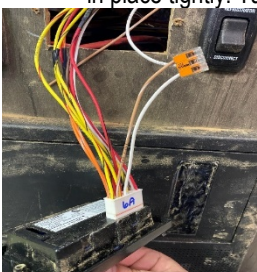
STEP 7: Locate the white wire (ground) in position 13 of the connector and cut the wire approximately 6-8 inches beyond the connector.



STEP 8: Strip the casing on the white wires and the connector side of the tan/white wire back 1/2". Use the wire stripping guide on the side of the WAGO connector if necessary.



STEP 9: Insert the two white wire ends and the connector side of the tan/white wire into the 3-position WAGO connector. Set the clamp levers down in place tightly. Tape off the harness side of the tan/white wire.



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STEP 10: Plug the 15 pin connector back into the Auto Gen Start control panel. Push harness back into cabinet and remount the control panel to the cabinet wall. Set control panel face plate back into place.

STEP 11: Reconnect the house battery ground lead and turn the battery disconnect to the "ON" position.

STEP 12: Turn the Auto Gen Start panel on and follow the set up instructions found on page 7 of the Onan Energy Command 30 Operator and Installation Manual (page 7 attached). Set Safe Type to Ignition.

Setting Up and Testing the Energy Command 30

Overview

This section describes how to Setup and Test the EC-30. Before using the EC-30 for the first time check to be sure that the unit is setup appropriately for the system. The character < is used to indicate all default values. Also see Figures #1-4.

Setting GEN TYPE and Safety Type Is Required for Automatic Operation

The very first time the EC-30 is turned on (power applied) an initial setup procedure begins. The EC-30 requires setup of both the GEN TYPE and Safe Type prior to allowing automatic operation.

The genset type also sets the Service Interval for service messages and critical automatic starting parameters. The first service interval is 50 hours for all models. See SETUP GENSET to change the genset type after first power up.

Setting GEN TYPE

First enter the correct GEN TYPE. If no GEN TYPE has been selected and the AUTO GEN switch is pressed, the display will say:

GEN TYPE
NONE

GEN TYPES TABLE 1

GEN TYPE	MODEL	Service In
NONE<	---	---
QD 10/12	Quiet Diesel	250 hours
QD 6/8	Quiet Diesel	150 hours
QD 5.5	Quiet Diesel	150 hours
GAS/LP	Marquis, MicroLite, Micro Quiet	150 hours
GAS RV	Camp Power	150 hours

The word NONE will be flashing. Use the UP/DOWN key and the table above to select the correct genset type. Press ENTER when the correct genset is displayed. The next display will say:

SafeType
NONE

Setting Safety Type

The Safety Input is described in detail in the Installation section of this manual. The Safety Input must be supplied from:

- **Ignition:** Input is connected to the vehicle ignition system (motor homes or van conversions).
- **Brake:** Brake light for all trailer, 5th wheel and pickup camper installations, or air brake on diesel motor homes.
- **Park:** The park signal/neutral (transmission) from motorized motor homes or van conversions.

The displays for the choices are:

Safe Type
NONE

Safe Type
IGNITION

Safe Type
BRAKE

Safe Type
PARK

Use the UP/DOWN switch to select the correct safety type. Press ENTER when correct type is displayed.

If setup of the SafeType is skipped, pressing the AUTO GEN key will begin this procedure.

SETUP & INFO Displays

The SETUP & INFO displays are used to tailor the EC-30 to the particular system and application. Refer to Figure #1 for the various main displays that are available. To access the SETUP & INFO displays use the UP/DOWN key to navigate to the SETUP & INFO display and press ENTER. (See Figure #2: Setup & Info Displays) The UP/DOWN key now allows scrolling through the various choices. To access a choice press the ENTER key. Again the UP/DOWN key is used to navigate through the available displays. Use the ENTER To Exit display to continue through the previous displays or:

Press the AUTO GEN key anytime to return to the default display.

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STEP 13: Once the Safe Type Ignition setting is entered, exit the display and using the chassis key, turn the chassis ignition switch to the Run position, and then to the OFF position.

STEP 14: Turn the Auto Gen Start control panel on, hit the Select Auto Gen Mode button and the screen should switch to read ENTER for auto; hit the ENTER button and the display should read "AUTO ON".

STEP 15: Other settings on the control panel can be set (e.g. Local Time, Quiet Time, start-up, and stop voltage). Follow Set- up instructions in the Onan Energy 30 manual. (on page 3 of this document)

End of Procedure