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LB Foster®



INSULATED RAIL JOINT FIELD REPAIR KIT



Scan the QR Code to see video for user instructions

LB Foster®

LBF PART NUMBER: 802137

KIT CONTENTS

ITEM NO.	PART DESCRIPTION	QTY	PART NO.
1	Sprayer with Dipping Tool	1	802142
2	Surface Cleaner	1	802161
3	Applicator Gun	1	802141
5	Filler Adhesive	3	802138
6	Mixing Nozzle	18	802140
7	Resealable Dispensing Bag (2"x2")	18	802144
8	Spreader	2	802139
9	Resealable Dispensing Bag (6"x6")	3	802362
10	Dusting Brush	2	802363
11	Cloth Rag	3	50401

Description:

Due to the adverse loading conditions seen by the rail, lipping on rail head is a very common phenomenon. This leads to degradation of insulation bonded joints where rail lipping may cause electrical failure and damage to the rail.

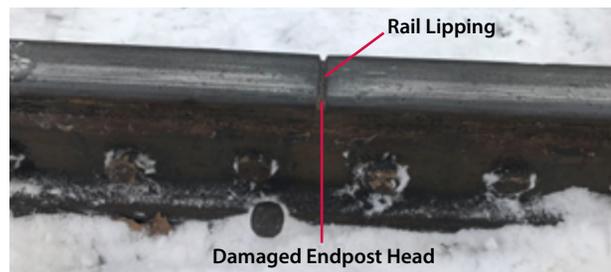


Fig.1 Rail Lipping and Endpost Head Damage

Tools and Materials Required:

ITEM NO.	PART DESCRIPTION	QTY
1	IJ Field Repair Kit (Provided by L.B. Foster)	1
2	60-Volt Max Lithium-Ion Cordless Brushless 4-1/2 in. Angle Grinder	1
3	Grinder Wheel for Steel (Threaded Arbor Hole 5/8"-11,4-1/2" Diameter, 1/8" Thick)	1

The IJ Field Repair kit by L.B. Foster Company is designed to be used on insulated bonded joints in the field by repairing a damaged endpost head.

Key Features of IJ Field Repair Kit:

1. Improves the life of a bonded insulated joint showing signs of endpost damage without the need of replacement.
2. Process takes only 10-15 minutes to repair the endpost head per joint
3. One kit can repair 10 joints on average

Process:

Note: DO NOT repair the joint at temperature below 32°F (0°C). Use of heat gun is recommended for use below room temperature (about 70°F (21°C)) to accelerate cure time.

1. The endpost region needs to be ground approximately 1/2" deep into the end post using a 1/8" (4mm) grinding disc to remove lipping. The rail ends must be ground clean to a bright metal finish and remove any remaining endpost material.
2. After the grinding process, use the dusting brush to dust off any excess metal shavings and dust between the railheads and on the railhead surface. Use of face mask and nitrile gloves is recommended before continuing with the process. Take the sprayer and attach the dipping tube to it. Screw the sprayer onto the surface cleaner bottle and spray over the machined area to remove any dust and metal shavings. The surface cleaner should be wiped clean with the provided cloth rag. Use of dusting brush is also recommended to remove any dust particles between the railheads.
3. Once the surface cleaner has dried, unscrew the cap on the adhesive cartridge and affix the mixing nozzle to its end. Take the applicator gun and pull the plunger back while pressing the lever on the side of the gun. Slide the adhesive cartridge completely into the applicator gun.
4. Each nozzle has a small resealable dispensing bag wrapped around it in the case. Dispense a small

amount (about 1") of adhesive into the resealable bag. A completely black mix is an indication of good blend of the 2-part adhesive.

5. Push the nozzle into the gap over the endpost and start filling in 1 direction (from gauge side to field side). Slightly overfill the gap and make sure the application is consistent to avoid any air bubble formation in the fill. One mixing nozzle is good for 1 joint only. Remove the nozzle and discard it.
6. After the gap is filled, wait for 30 secs for the material to settle and add material as needed, before using the spreader provided to clean up the overfilled material. Move the spreader over the head of the rail in one movement in the opposite direction as the repair material was applied (from field side towards gauge side).
7. The adhesive should cure to handling strength in about 15 mins in a warm weather (about 70°F (21°C)). Use of a heat gun is recommended to help cure adhesive faster for below room temperature conditions.
8. The repair to the endpost head is complete. Clean up the joint off any metal shavings and dust using a dusting brush. Use of a magnetic cleanup tool is recommended to ensure all metal particles have been picked up and safely removed from the joint region.

DISCLAIMER: While this adhesive is intended to extend the useful life of a bonded insulated joint in track by repairing a worn endpost, L.B. Foster makes no guarantees of any kind except that the adhesive will be free from defects when used as directed. L.B. Foster's sole obligation shall be, at its option, to replace or refund the purchase price of the defective adhesive. L.B. Foster makes no other warranty, express or implied, including, without limitation, the warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE. Purchaser agrees that L.B. Foster shall not be liable for consequential or incidental damages."