



Service Bulletin

Dear Collins Bus Corporation Customer,

Issue Date: March 28th, 2014

Subject: **Helper Leaf Spring**

Models Affected: **Chevrolet Models having a Wheelchair Lift**

Notes: This service bulletin is intended to assist Collins Bus distributors, their customers and or service shops in the proper techniques for repair and maintenance. Issues described in this bulletin may not apply to all Collins Bus units. Authorized technicians will be able to decide whether or not a unit with similar issues will benefit from the provided information.

Details: Information contained in this bulletin will help you better find and repair Helper Leaf Spring or potential issues with Helper Leaf Spring. Please follow instructions provided with each picture for details on problems and suggested repair.

Figure 1-A



Issue: Helper Leaf Spring is wider than the OEM Shackle and if fully compressed will rub OEM shackle.

NOTE: There are two OEM shackles on the leaf spring.

Location: Passenger side rear, above axle. See Figure 1-A

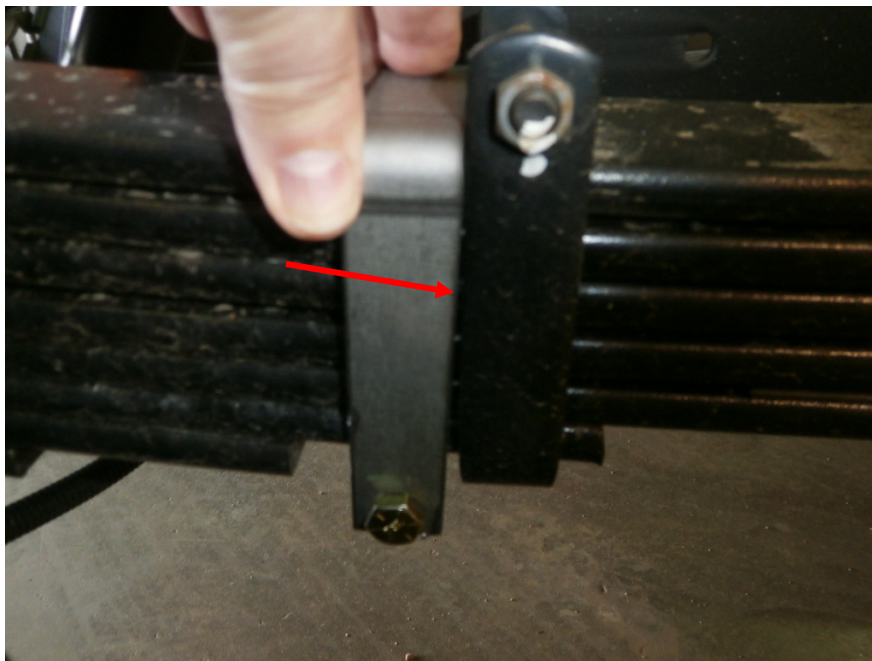
1. Corrective Action: Place the additional clip, 442082, on the leaf spring adjacent to the OEM clip; ensure additional clip is placed on the side of the OEM clip nearest the center of the rear axle. See Figure 1-B

Figure 1-B



2. Tack weld additional clip to OEM clip. See Figure 2-A

Figure 2-A



3. Remove bolt from OEM clip. Cut bolt if necessary. See Figure 3-A

Figure 3-A



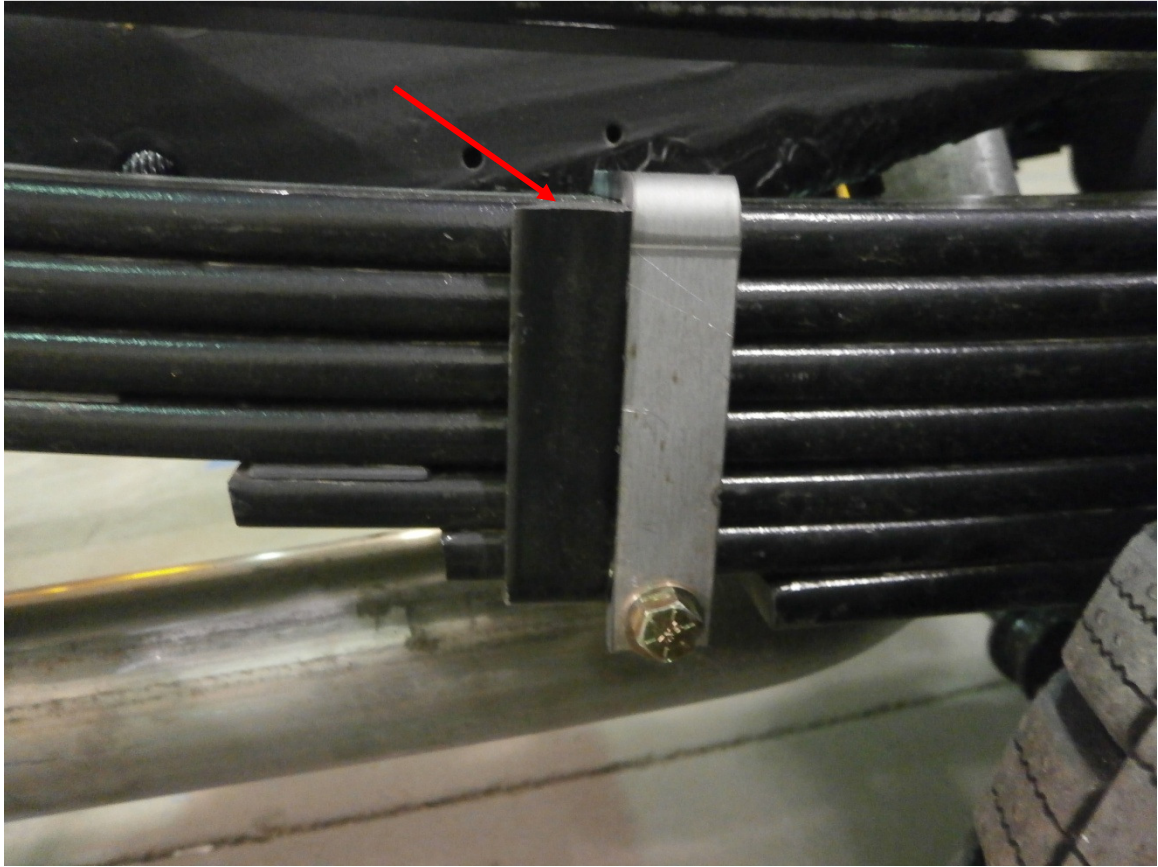
4. If cutting bolt is the only way to get it out ensure that sleeve between the fingers of OEM clip is not cut during this process. Sleeve spacer will be re-used. See Figure 3-B

Figure 3-B



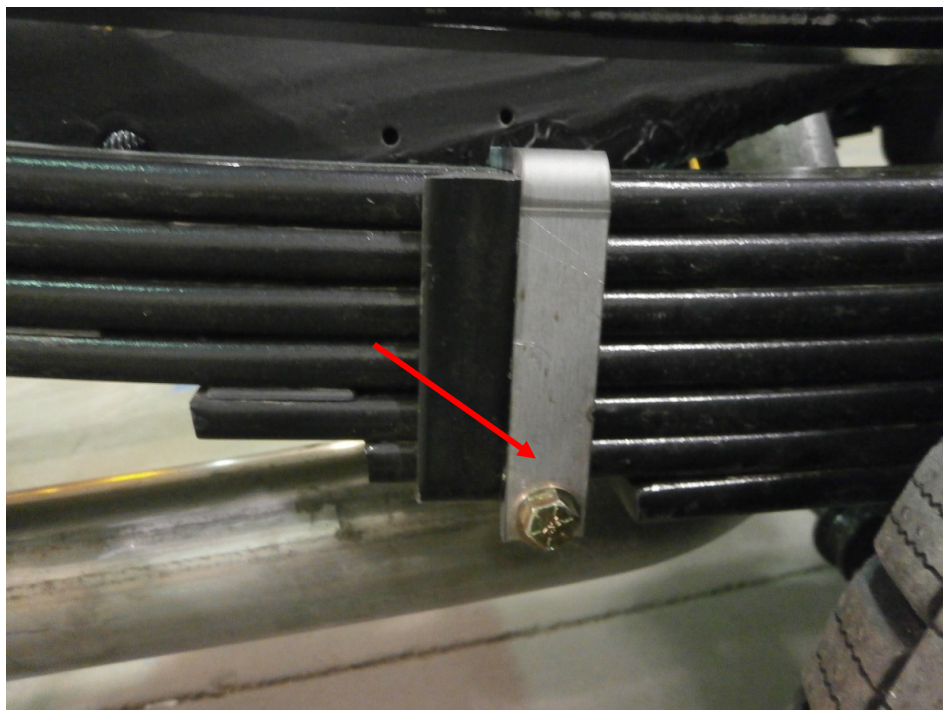
5. Cut off fingers of OEM clip flush with the top of the additional bracket. See Figure 4-A

Figure 4-A



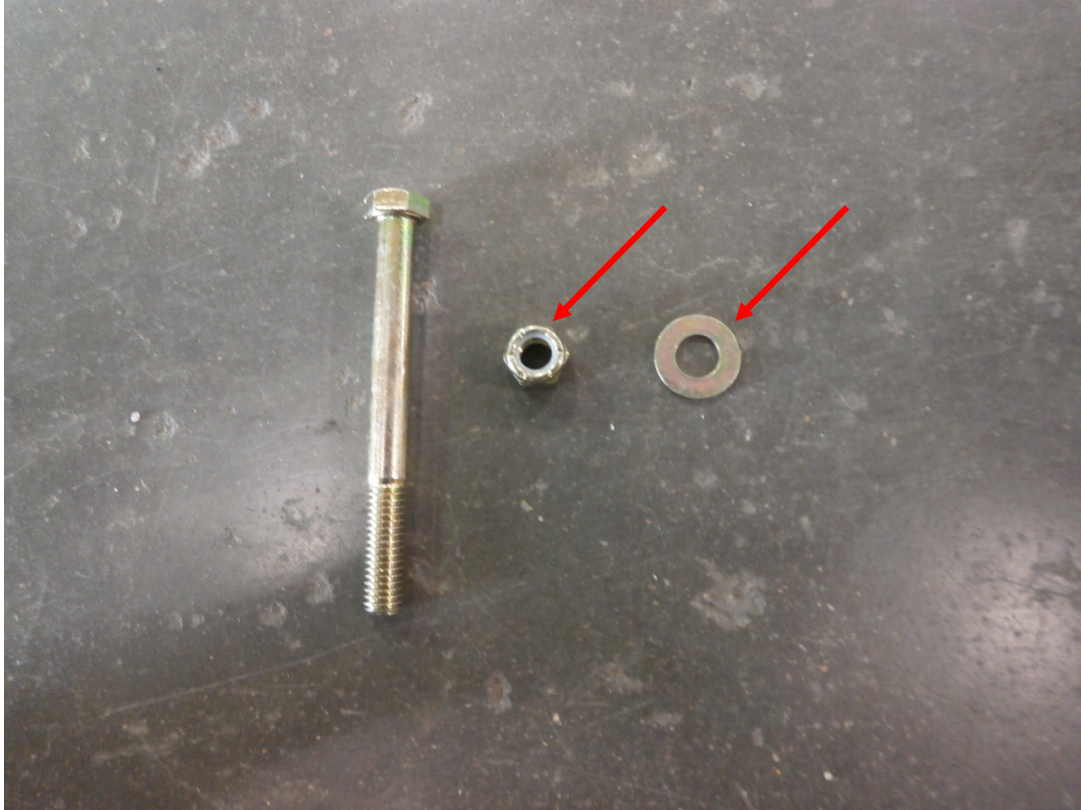
6. Insert bolt through additional clip and placing sleeve from OEM bolt assembly between the fingers of the additional clip. See Figure 4-B

Figure 4-B



7. Install washer and locknut and Torque locknut to 30ft lbs. See Figure 5-A

Figure 5-A



8. Place 1" welds on the seam between the OEM clip and the additional clip on each side of the clips. See Figure 5-B

Figure 5-B



Tools Required: Welder

Saw for removing tabs.

9/16" socket and torque wrench for installing Bolt & Locknut.

Parts Required: 442081 Assembly

Assembly Parts: (2) 442082 Clip, Leaf Spring Retainer

(2) 442083 Bolt 3/8-16 x 3.75 GR8 YZ

(2) 442084 Nut 3/8 – 16 NYLOK GR8 YZ

(2) 442085 WASHER, FLAT 3/8 SAE YZ

Important Leaf Spring Torque Specifications

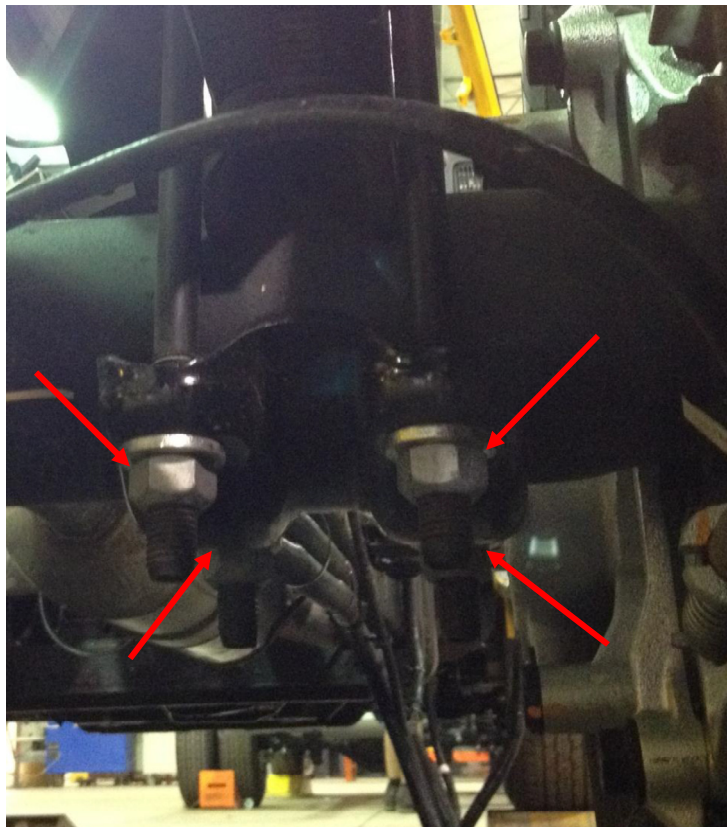
U-Bolts:

Note: U-Bolt is a 1 time use only. If removed they must be replaced.

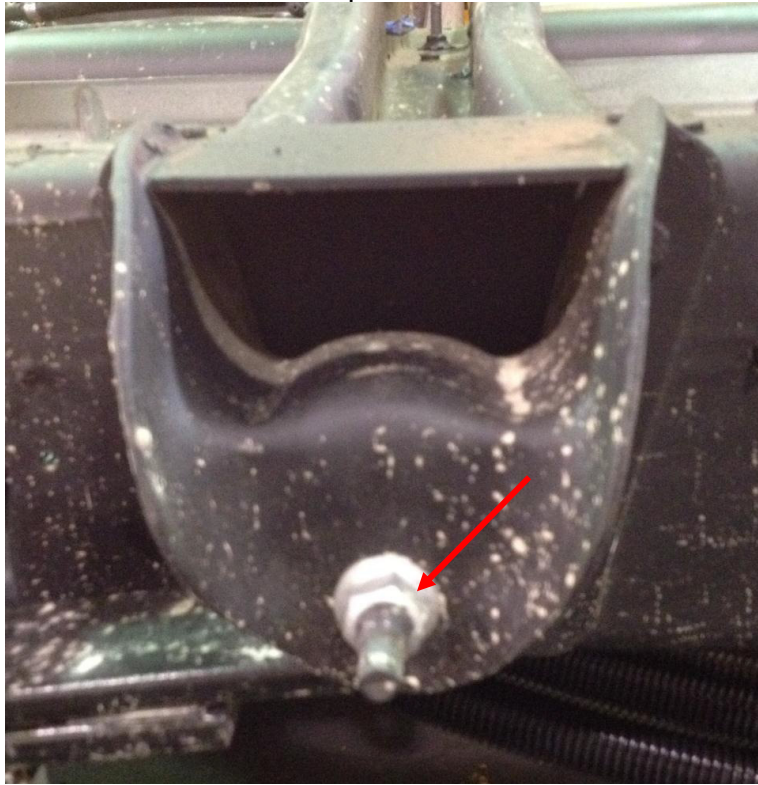
Call Chevy Dealer with VIN number to get correct replacement U-bolts.

Torque Specification: 103 ft.-lbs. + 180° See Figure 6-A

Figure 6-A



Front Hanger: 211 ft.-lbs + 140° See Figure 6-B
Figure 6-B

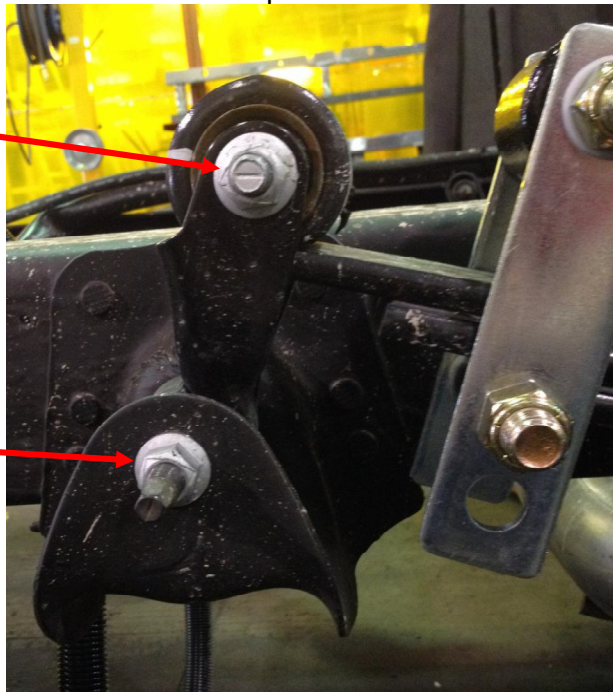


Rear Shackle to Leaf Spring: 63 ft.-lbs.
Rear Hanger: 85 ft.-lbs. + 40° See Figure 7-A

Figure 7-A

Rear Shackle to Leaf Spring

Rear Hanger



We regret the inconvenience this service may cause you. Please be assured that Collins Bus Corporation is striving to build our buses with the best value and safety available. Thank you for your cooperation in this matter. If you have questions about anything contained in this bulletin please contact

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Sincerely,
COLLINS BUS CORPORATION

Kelli Petz,
Customer Service Manager