



OREGON STATE FIRE MARSHAL

ENGINE PROGRAM

OREGON STATE FIRE MARSHAL
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OPERATIONS BULLETIN #24-06

Date: 11/25/24
Apparatus: Tactical Tender – 2024 Freightliner M2112
Subject: Rear Suspension

Freightliner provided OSFM with a service bulletin for the tender's that have detected an audible popping or knocking noise coming from the rear suspension when turning the vehicle.

If you hear this popping sound on your tender, please complete a warranty form on the [OSFM Engine Program Website](#). OSFM will work with General Fire to streamline the process on how to properly move forward with this warranty request.

Please see the service bulletin from Freightliner below for further information.

SS 3073-FTL2021 M2 Rear Suspension Knock

Applicable Vehicles

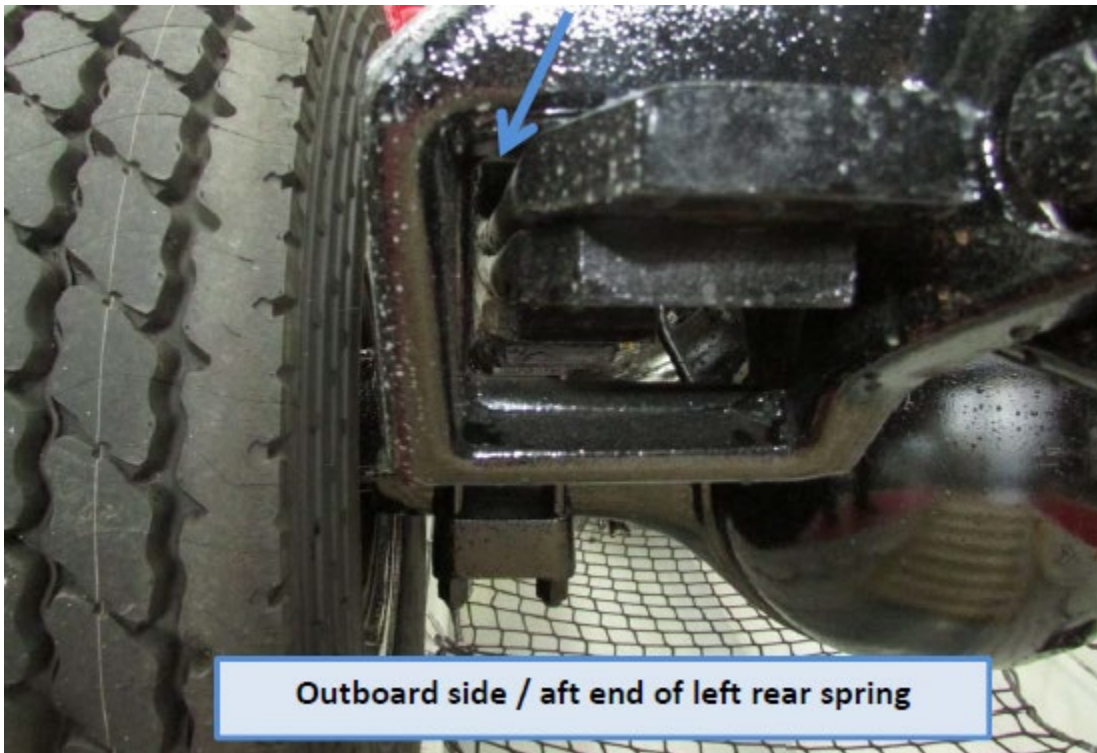
This document applies to Freightliner M2 Business Class used in a "Fire/Emergency" application and equipped with FTL flat leaf spring rear suspensions.

Symptoms

Driver of the vehicle will detect an audible popping or knocking noise from the rear suspension when turning the vehicle.

Issue

The FTL flat leaf spring rear suspension permits the spring pack to shift laterally within the spring hanger brackets. Under heavy cornering load applications, the spring pack can shift laterally and contact the sidewall of the spring hanger bracket. (See Image 1 for reference)



Outboard side / aft end of left rear spring

Solution

NOTE: To perform this procedure, the suspension hanger brackets need to be removed from the frame rails. Reference Freightliner Business Class Trucks Service Manual Section 32.01 or 32.05 to remove the spring hanger/equalizer brackets and follow all WARNINGS contained therein relating to the removal procedure.

- 1) Remove spring hanger brackets from the frame rails.
- 2) If the vehicle has a tandem rear axle, the equalizer brackets need to be removed (see Fig 4).
- 3) Parts required for the solution are as follows:
 - a) a. 15-15519-000, QTY 2 for single axle suspensions
 - b) b. 15-15519-000, QTY 4 for tandem axle suspensions
 - c) c. 16-21385-000, QTY 2 for all suspensions
- 4) Install 15-15519-000 spacer plates between the forward spring hanger brackets and the LHand RH frame rails (see Fig 1 and Fig 3).
- 5) If the suspension includes a helper spring bracket, the 15-15519-000 spacer plate will need to be modified to provide clearance (see Fig 2)
- 6) Install the 16-21385-000 spacer plates between the rear spring hanger brackets and the LHand RH frame rails (See Fig 1 and Fig 3).
- 7) For tandem axle suspensions, install the 15-15519-000 spacer plates between the equalizer brackets and the LH and RH frame rails. The 15-15519-000 spacer will need 2 additional 20.6mm diameter holes drilled for correct fit-up (see Fig 4)
- 8) After the spacer plates have been installed correctly, ensure the fasteners have been replaced and torqued to specification per the Service/Workshop manual.

15-15519-000

16-21385-000

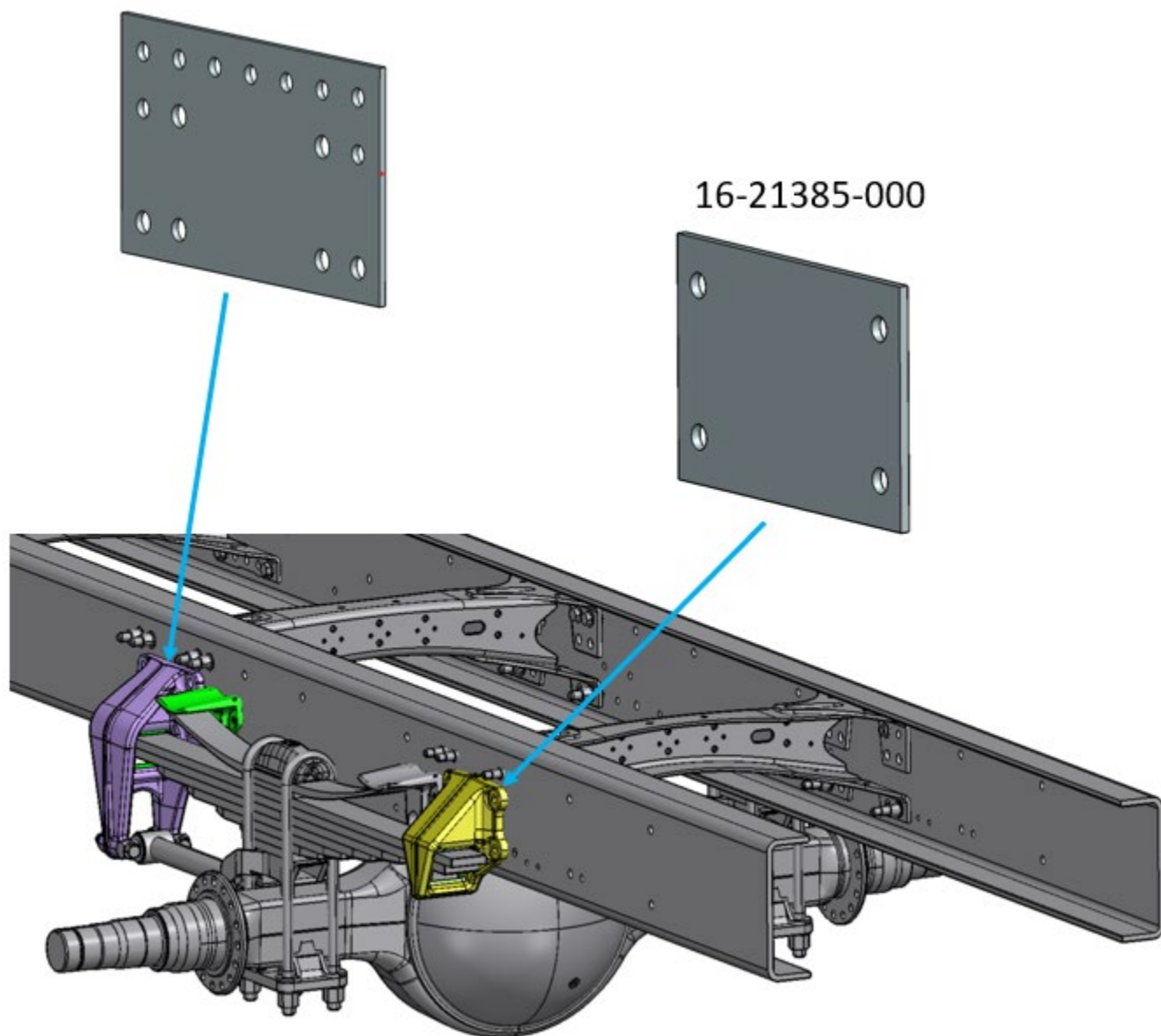
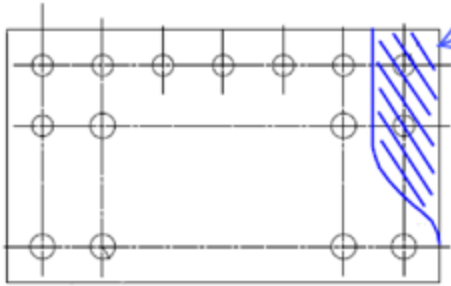


Fig. 1

Cross hatch area must be removed as shown for clearance with helper spring bracket.

15-15519-000



This is only required when helper springs are present.

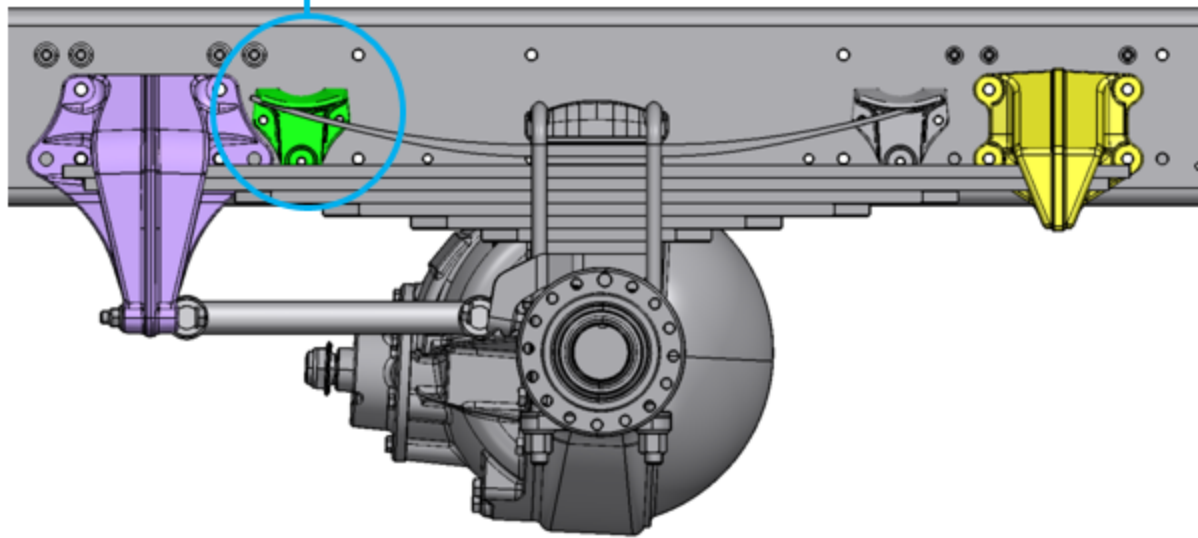


Fig. 2

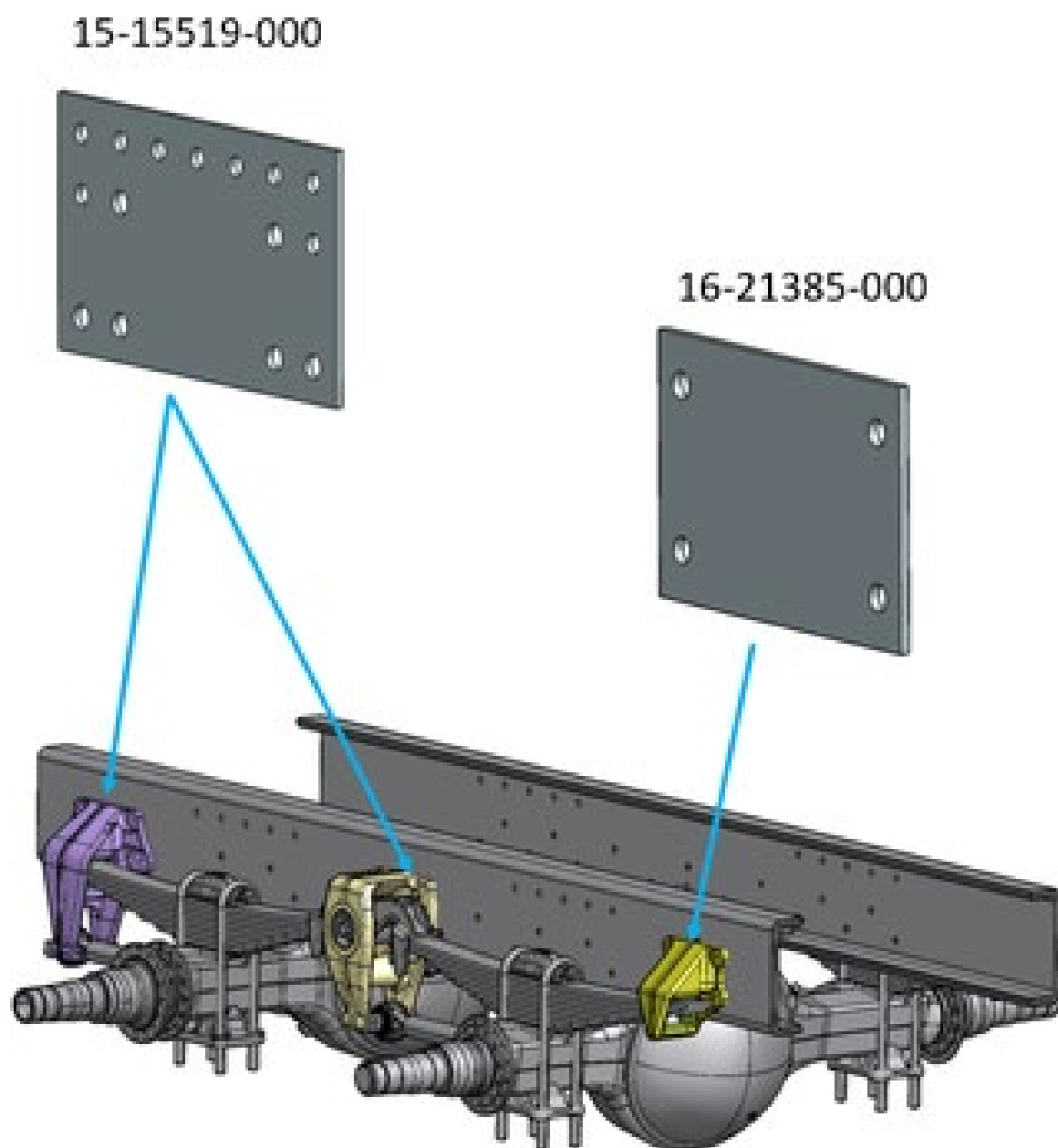
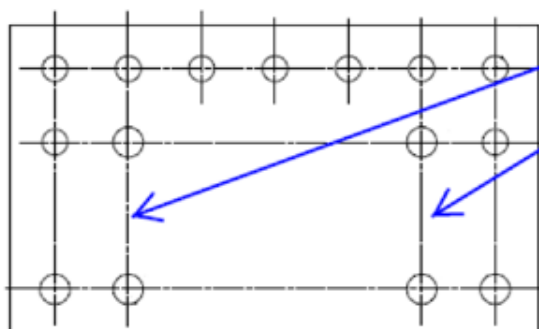


Fig. 3

Use equalizer as drill template for
additional hole - (2) places as shown



Required for fitment behind
equalizer bracket.

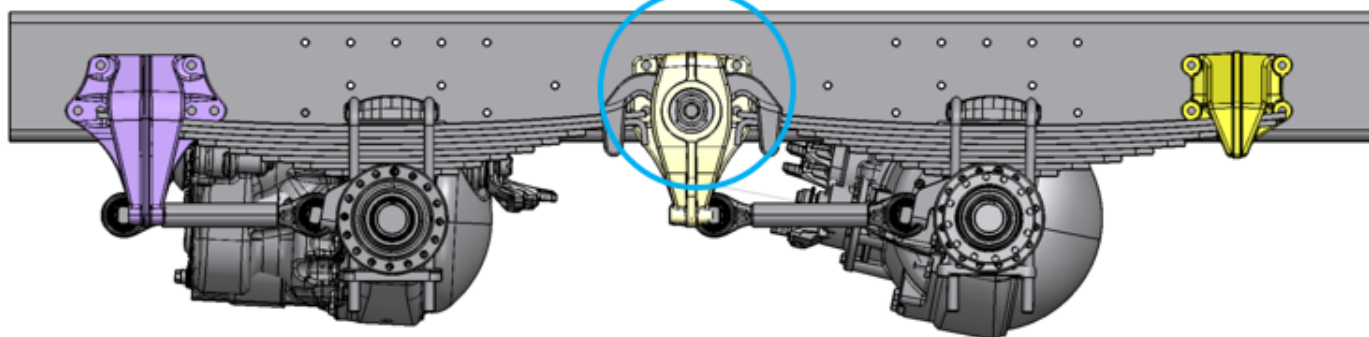


Fig. 4