

RAFNA TECHNICAL SERVICE BULLETIN No. 156

R-450 and R-450OT Rotating Rear Railgear Lock Up System Adjustment

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This Technical Service Bulletin provides a procedure to adjust the R-450 and R-450OT Rotating Rear railgear lock up system. This procedure is best carried out in a qualified railgear service center using safe shop practices.

Please ensure a copy of this Technical Service Bulletin is left with the vehicle operator.



- **Read and understand this procedure and the operating manual completely before attempting to move the railgear.**
- **Ensure that all rail company safety procedures are followed and never place yourself or others in a dangerous position.**
- **Before anyone goes under the vehicle or railgear, ensure the vehicle engine is turned off, the parking brake is set and the vehicle and railgear are securely supported.**
- **Ensure all body parts and loose clothing are clear of any moving parts of the equipment.**
- **Failure to heed to any of the above-mentioned warnings or failure to follow the procedure could result in severe bodily injury and/or equipment damage.**

Once the rear railgear rail wheel load is set, the rear railgear lock-up system must be adjusted. The following procedure details the adjustment of the rear railgear lock-up support. Refer to figures 1 and 2:

1. With the rear railgear fully raised to the road position, loosen the four bolts (Item 1) holding the lock-up support table (Item 2) to the rear railgear lock-up frame (Item 3).
2. Loosen the four bolts (Item 4) holding the lock-up plate assembly (Item 5) to the rear railgear lock-up support table.
3. Adjust the lock-up system up or down, front or back, and it's angle such that the contact surface of the angle plate (Item 6) and the surface of the lock-up pins (Item 7) are parallel and the angle plate should contact the pins between 3/4" and 7/8" overall (refer to figure 2).
4. Once the position of the lock-up is correct, tighten all eight bolts to specification, and tack weld the assembly in place as follows:
 - a) Tack weld the lock-up support table to the lock-up frame.
 - b) Tack weld the lock-up plate assembly to the lock-up support table.
 - c) Tack weld the lock-up frame to the railgear mounting boxes.

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