Title	Front Tire Clearance Above Rail on RW-1630/1650/1420/1212
Document No.	TRB0011 Rev A
Issue Date	02/26/2016 (BJF)
Release	General
Units Affected	Vehicles with RW-1630, RW-1630UC, RW-1650BC, RW-1420, or RW-1212 Railgear
Purpose	Provide guidance on recommended front tire clearance above rail

Minimum Front Tire Clearance:

DMF recommends a minimum of 2″ of front tire clearance above rail (see Figure 1) in applications where the front truck tires are lifted in the air for use on rail. If this check is being performed off the rail (such as a concrete shop floor), note that the rail wheel flange is roughly 1.25″ tall.
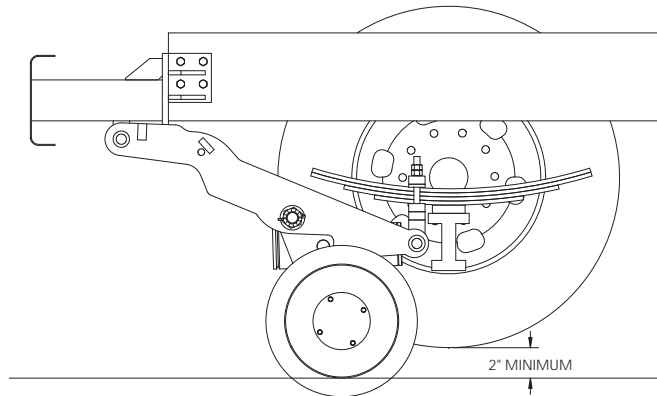

Figure 1: Front Tire Clearance Above Rail

Front Mounted Railgear:

Some combinations of truck suspension and front railgear long arms may not allow for sufficient tire clearance above rail (2″) when using standard DMF recommendations for front railgear pin heights. When that issue arises, the pin height can be reduced evenly front and rear to provide more tire clearance above rail. The minimums shown in Table 1 will allow 8″ of ground clearance for the railgear while it is stowed.

Railgear Model	Standard Front Pin Height (in)	Minimum Front Pin Height (in)	Standard Rear Pin Height (in)	Minimum Rear Pin Height (in)
RW-1630	25.5 ± 0.5	23	12.75 ± 0.5	10
RW-1420	24.5 ± 0.5	22	11.75 ± 0.5	10
RW-1212	23.5 ± 0.5	22	10.75 ± 0.5	10

Table 1: Minimum Front Railgear Pin Heights For Tire Clearance Above Rail

Mid Mount Railgear:

Mid mount front railgear such as RW-1630UC or RW-1650BC can be installed closer to the ground to increase front tire clearance above the rail. The minimum stowed ground clearance for the railgear is 8″. If more front tire clearance above rail is still needed, an axle lock can be installed on the front truck suspension for use while on rail.

Diversified Metal Fabricators
Phone: (404) 875-1512
Email: info@dmfatlanta.com
Web: www.dmfatlanta.com