



RADIATORS, INTERCOOLERS, CONDENSERS - LARGER SIZE HEAT EXCHANGERS WITH MOUNTING BRACKETS APPLYING SHOCK-ABSORBING BUSHING.



TRUCK AND SOME LIGHT VAN / PASSENGER CAR APPLICATION

PROBLEM PREMATURE RADIATOR/HEAT EXCHANGER FAILURE

EXCESSIVE VIBRATION > LEADS TO RADIATOR COMPONENTS BURSTING THUS CAUSES LEAKS

BACKGROUND

Truck and commercial applications as well as some of the passenger cars apply large size radiators for engine cooling. These heat exchangers are of heavy weight and often embraced by a fitting frame for a secure positioning in the engine compartment. Massive vibration caused by the engine operation as well as the heavy vehicle's move may be destructive for large and heavy but still pretty fragile radiators / other heat exchangers (intercooler / condenser). That is why shock- absorbing bushing are applied on the exchanger bracket's fitting points. They secure the component to the vehicle and eliminate excessive vibration.



Being often lost/disregarded during radiator servicing / replacement cause the vibration transfer to the part's fragile areas such as header plates, tanks or long tubes causing their premature failures, mainly cracks, bursting or deformation.

RECOMMENDED SOLUTION

Whenever installing a larger size heat exchanger (radiator / intercooler / condenser) in a truck or a commercial vehicle, make sure, the fitting requires shock-absorbing bushings.

Do not reuse old busing by the part replacement as the rubber may be worn thus its shock absorbing ability is lowered significantly.

Fitment bushings are typically inexpensive and a simple rubber/metal-rubber design components. There are easy to install and ensure the heat exchanger secure, vibration-free fitment thus a long, trouble-free operation



CAUTION! Consult the vehicle OE documentation to figure out the proper OE replacement for the radiator/heat exchanger bushings if not delivered with the replacement radiator/heat exchanger.

Busing placement on the radiator frame's bracket in a truck application



Shock-absorbing bushing may apply various design. Majority are inexpensive and easy to install.



The outermost radiator tubes are often the first elements that burst due to excessive vibrations caused by missing or broken fitting bushings.



The material and its contents are provided without warranty of any kind, and by publishing it, we disclaim any liability. Always follow the given vehicle manufacturer's instructions to comply with the right service and maintenance procedures. Nissens Automotive A/S shall not be held responsible for any property damage or personal injury, direct or indirect damage, due to failure or down time in vehicle operation caused by incorrect application, installation and/or abuse of our products.

©Nissens Automotive A/S, Ormhøjgårdvej 9, 8700 Horsens, Denmark. For further technical and contact information visit www.nissens.com

