

PARTS & SERVICE NEWS

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SUBJECT: MICHELIN RADIAL TIRE MOUNTING PROCEDURES

PURPOSE: To inform the field of radial tire mounting procedures.

APPLICATION: Komatsu Electric Drive Dump Trucks with Michelin Tires:
730E: AFE47-A & Up, A30079 & Up
830E: AFE50-A & Up, A30544 & Up
930E: AFE48-A & Up, A30019, A30026 & Up

FAILURE CODE: 3A10Z9

DESCRIPTION: Michelin Radial Tire Mounting Procedures. Refer to Michelin Technical Bulletin (May 2001).

RIM AND TIRE PREPARATION

The first step in mounting radial off-road tires is to properly prepare the tire and rim assembly.

- Clean the rim base, bead seat band, and flanges with a wire brush.
- Verify that the rim does not have any burrs.
- Clean the tire.
- Remove any object from the interior of the tire that could cause damage to the tire.
- Check the tire bead area and inner liner for damage that would allow air to leak from the tire.

LUBRICANTS

The proper amount and type of lubricant is key to successful mounting of radial off-road tires.

▲ IMPORTANT ▲

For lubrication, use only water-based or vegetable-based lubricant.

- Lubricate all parts on the rim that are in contact with the bead sole area of the tire.
- Be careful not to apply lubricant in the O-ring gutter.
- Lubricate the tire bead.

TIRE MOUNTING

The preferred method for mounting tires is horizontally and off of the truck, especially for initial tire mounting on a new truck. For horizontal tire mounting, a workman's stand is recommended for working inside the tire. Similar methods and precautions should be used when mounting tires vertically, on the truck.

- Mount the tire on the rim base with the bead seat band already installed.
- Install the O-ring and the lock ring.

▲ IMPORTANT ▲

With each tire mounting, it is required that a new O-ring and a new air valve be installed.

INFLATION

Proper mounting of off-road radial tires requires special inflation pressure changes.

▲ IMPORTANT ▲

Michelin tires should only be inflated with air or nitrogen.

- Inflate tire to a pressure of 8.43 kg/cm² (120 psi) to correctly position and seat the beads.
- Check the placement of the beads. Use the centering ring and the position of the small lettering "Radial Steel Cord" which should be approximately 15 mm (.59 inch) from the edge of the side flange.
- Return tire to working pressure when tire / rim assembly is put into service.
- Use soapy water to verify air tight seal of the assembly at the O-ring.
- After the tire / rim assembly has been in use for one work shift, check air valve for leaks.

Always keep standard safety practices in mind. Michelin is always looking for better methods of mounting and dismounting tires and input from the field is always welcome. Contact Michelin at (864) 458-5840 with any problems, or any new and improved tire mounting methods.

▲ WARNING ▲

Proper inflation equipment, and training in using the equipment, are necessary to avoid over inflation. If correct procedures are not followed while servicing tires and rims, the assemblies could burst with explosive force and cause serious personal injury or death.