

Engine-to-Air Compressor Oil Tube (Dog Bone) Replacement

Hazard Alert Messages

Read and observe all Warning and Caution hazard alert messages in this publication. They provide information that can help prevent serious personal injury, damage to components, or both.

WARNING

To prevent serious eye injury, always wear safe eye protection when you perform vehicle maintenance or service.

Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving. Support the vehicle with safety stands. Do not work under a vehicle supported only by jacks. Jacks can slip and fall over. Serious personal injury and damage to components can result.

How to Obtain Additional Maintenance, Service and Product Information

If you have any questions about the material covered in this publication, or for more information about the Meritor WABCO product line, please contact the OnTrac Customer Service Center at 866-OnTrac1 (668-7221) or visit our website: meritorwabco.com.

How to Obtain Parts and Kits

Contact Meritor's Commercial Vehicle Aftermarket at 888-721-5250.

Oil Tube (Dog Bone) Replacement

The engine-to-air compressor oil tube, sometimes called the "dog bone", is the oil tube that allows oil from the engine to pass to the air compressor. It usually does not require replacement unless there is an oil leak between the engine and the compressor. Replacement is also required usually when the air compressor is replaced because it is likely that the oil tube will be damaged during compressor removal.

The "dog bone" cannot be completely removed from the compressor while the compressor is mounted to the engine. The outboard end will run into the frame rail.

Removal


1. Wear safe eye protection. Park the vehicle on a level surface. Block the wheels to prevent the vehicle from moving.
2. Remove the M22x1.5 plug holding the dog bone in place and set it aside for reuse. Discard the sealing washer. Obtain a new washer from the dealer prior to reassembly.
3. Insert an M6 threaded bolt or screw into the threaded portion of the dog bone. Pull the dog bone out of the bore approximately 1/2-inch (12.7 mm) until the opposite end clears the engine block.
4. Remove the M6 bolt.
5. Remove the air compressor from the engine according to the OEM recommended instructions.

Installation

1. Lubricate the two O-rings with engine oil. Push the large end of the dog bone into the compressor bore until the large end is flush with the compressor on the engine side.
2. Reinstall the air compressor on the engine according to the OEM recommended instructions.

CAUTION

Use caution when seating the dog bone. If the O-ring is cut during assembly, an oil leak will result. This will require you to remove the air compressor and replace the dog bone with a new one.

3. After the air compressor is mounted, continue to press the dog bone into the air compressor bore and the mating engine block bore until the dog bone is completely seated.
4. Install a new sealing washer on the M22 plug. Reinstall the M22 plug and tighten to 66 ft-lb (90 N•m). 
5. After all air compressor connections are installed and the engine fluids are refilled, start the engine and check for oil leaks at the plug and at the engine block interface. Repair as necessary.