

TECH TIPS

TIMKEN

WORLDWIDE LEADER IN BEARINGS AND STEEL

Volume 2, Issue 3

Promoting safe, proper bearing handling practices for the heavy-duty market

Specifying and Ordering the correct combination of replacement bearing parts for conventional wheel-ends

When specifying replacement bearing parts, it is recommended that the mating components—bearing cone (inner race) and cup (outer race)—be from the same manufacturer.

Bearing part numbers may be marked on either face of the cone or cup, or on the cup outside diameter. Be certain to record these part numbers during wheel-end disassembly, to assure identical part numbers are reordered. Use only identical part numbers or approved substitutes.

Following are the technical reasons that parts from various bearing manufacturers should not be mixed:

- Incompatible internal bearing profile.
- Incompatible internal bearing cup race angle.
- Overall bearing width difference due to tolerance differences.
- Bearing rating differences (different number of rollers, different parameters).
- Surface finish variations due to different manufacturing processes and technology.
- Steel quality and cleanliness variations.
- Steel processing and steel type variations.
- Variances in worldwide bearing manufacturing quality.



The Timken Company offers matched sets of inboard and outboard bearing components, as shown below.

Timken Set Number	Timken Part Number
Set 401	580, 572
Set 402	582, 572
Set 403	594A, 592A
Set 404	598A, 592A
Set 405	663, 653
Set 406	3782, 3720
Set 407	28682, 28622
Set 408	39590, 39520
Set 409	45280, 45220
Set 410	45284, 45220
Set 411	47686, 47620
Set 412	HM212047, HM212011
Set 413	HM212049, HM212011
Set 414	HM218248, HM218210
Set 415	HM518445, HM518410

in your order today

For a FREE brochure on Timken® MileMate™ Matched Wheel Bearing Sets, just complete the entry form below and fax this page to (330) 798-2136. Or make a photocopy and mail it to *Tech Tips*, P.O. Box 9478, Canton, OH 44711. Please print clearly.

Your Name _____

Title _____

Company _____

- Check one: Independent distributor
 OE dealer
 Fleet personnel/Owner operator

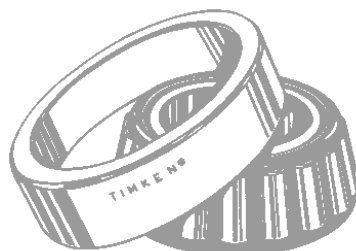
Address _____

City/State/Zip _____

Phone _____ Fax _____



According to the National Transportation Safety Board, the incidence of wheel separations is about 750 to 1,050 per year. The Safety Board identified improper truck-wheel maintenance as a potential cause. Most often cited were inadequate in-service inspection guidelines and failure to adhere to recommended maintenance practices. At The Timken Company, we care about your safety and the safety of everyone on the road. Please follow recommended wheel-end inspection and maintenance guidelines.



TIMKEN®

MileMate™ Matched Wheel Bearing Set

Increase truck and trailer uptime



- **Matching Cone and Cup**
Gives Higher Reliability

- **Made from Timken Steel**
Proven Longer Running

- **To Be Replaced Together**
Lengthens Maintenance Intervals

For more information about Timken MileMate Matched Wheel Bearing Sets, contact your local Timken representative or fax us your request using order form at left.

WARNING:

Follow the manufacturer's installation instructions.

Never spin a bearing with compressed air. The rollers may be forcefully expelled, creating a risk of serious bodily harm.

Failure to follow all instructions and to properly lubricate the bearing can cause equipment failure, creating a risk of serious bodily harm.