

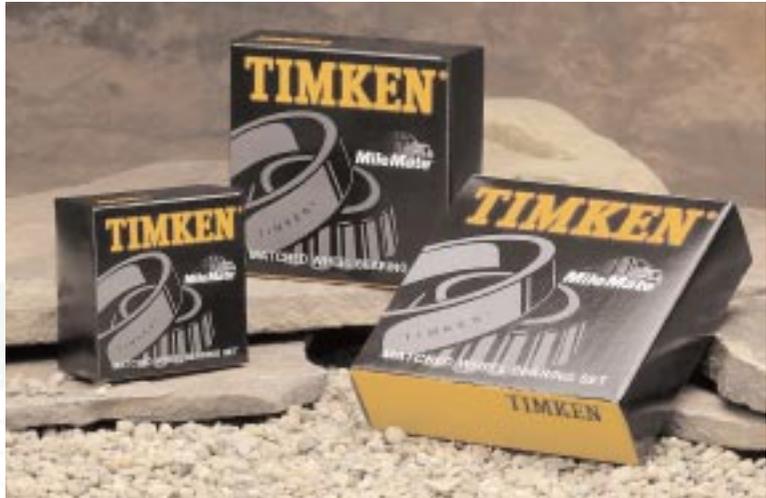
## REPLACING CUPS AND CONES TOGETHER

When specifying replacement parts, Timken recommends that the mating of components, the cup and cone, be from the same manufacturer. It is also recommended to change both components at the same time. Because the old component has a distinct pattern worn into its raceway, mixing it with a new mating component may set up edge stresses along the races.

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

- Incompatible internal bearing profile.
- Overall bearing width difference due to tolerance differences.
- Bearing rating differences.
- 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.

To make it easier to replace cones and cups together, Timken has 38 MileMate® matched wheel bearing sets available for the heavy duty truck industry. (See chart on the next page for the Timken part number and corresponding set number.) Here are frequently asked questions about this product.



### More on MileMate® Sets

#### • What is a MileMate set?

A MileMate set is a Timken matched cup and cone in a convenient single box. Timken began the set concept with smaller, automotive bearings. Sets are now available for the most popular heavy duty truck sizes of tapered roller bearings.

#### • Why should you buy MileMate sets instead of individual cups and cones?

**Convenience:** Cup and cone in one box.

**Longer Bearing Life:** Timken® bearings have specifically contoured profiles on the contact surfaces. This design allows our bearings to carry loads that are evenly distributed. By evenly distributing the load, Timken bearings provide optimum performance and life.

**Matched Cups and Cones:** Mixing components from multiple manufacturers may seem insignificant, but it can make a big difference when it comes to correctly fitting parts

together. International standards only mandate that the same part numbers have the same basic outside diameter, bore and width and cup angle, allowing the internal geometries and characteristics to vary from manufacturer to manufacturer.

**Lower Maintenance Costs:** The cost of matched parts is relatively small compared to the cost of unscheduled downtime. Trucks do not make money when sitting still in a shop while you incur the cost of teardown labor and additional parts.

*Tech Tips is not intended to substitute for the specific recommendations of your equipment suppliers.*

**WARNING!**

- Proper maintenance and handling practices are critical. Failure to follow installation instructions and to maintain proper lubrication can result in equipment failure creating a risk of serious bodily harm.
- Never spin a bearing with compressed air. The rollers may be forcefully expelled creating a risk of serious bodily harm.

Timken Set Numbers	Timken Part Numbers	Timken Set Numbers	Timken Part Numbers
Set 401	580/572	Set 420	H715345/H715311
Set 402	582/572	Set 421	HM516449A/HM516410
Set 403	594A/592A	Set 422	HM516449C/HM516410
Set 404	598A/592A	Set 423	6461A/6420
Set 405	663/653	Set 424	555-S/552A
Set 406	3782/3720	Set 425	567/563
Set 407	28682/28622	Set 426	47679/47620
Set 408	39590/39520	<b>ConMet and Dana Heavy Duty Hubs</b>	
Set 409	45280/45220	Set 427	NP800357/NP026773
Set 410	45284/45220	Set 428	NP874005/NP435398
Set 411	47686/47620	Set 429	NP034946/NP363298
Set 412	HM212047/HM212011	Set 430	NP840302/NP053874
Set 413	HM212049/HM212011	Set 431	NP965350/NP503727
Set 414	HM218248/HM218210	Set 432	NP174964/NP593561
Set 415	HM518445/HM518410	Set 433	NP431952/NP378092
Set 416	45291/45220	Set 434	NP555065/NP720703
Set 417	47890/47820	Set 435	NP568900/NP107783
Set 418	H715334/H715311	Set 436	NP577914/NP975161
Set 419	H715343/H715311	Set 437	NP022333/NP250023
		Set 438	NP417549/NP156827

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