



<b>SERVICE</b>	<b>B0303021</b>
<b>BULLETIN</b>	<b>2003-09</b>

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Subject: Spindle housing applications

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Parts Affected: 107408, 107410, 107411, 107412, 107418, 108772, 108773, 108774

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**Service Information:**

In an effort to simplify the applications of a particular spindle bearing, the following chart has been produced to help clarify various applications. There are also notes pertaining to questions that have arisen concerning retrofits and updating existing spindles.

**Parts Information: Maintenance Free Spindles**

- All units used a sealed maintenance free bearing until production of 9-15-2003. The dust shield was incorporated into the spindle on 7-15-2003 to extend life of the bearing. This is the replacement spindle for all existing spindles manufactured before 9-15-2003. Use the maintenance free chart following for all spindle replacements manufactured before this date.
- Spindles with dust shields lower the blade 1/8-inch. When installing with other spindles that don't have dust shields there will be a slight difference in height of cut compared to the other spindles. Under normal circumstances this is negligible. If the height needs to be adjusted, the other spindles without a dust shield need a washer between the blade and spindle to equalize the height. We do not recommend taking apart existing working spindles to install a dust shield.
- Spindles with dust shields are the only warranty replacement for maintenance free style spindles
- There is a bearing rebuild kit that includes bearings and a bearing spacer to repair units with no damage to the housing. This is part number 107406. This kit does not include dust shields
- Spindles are used in different applications so internal configurations can be different (ie. Spindle length, washers, etc.)
- Use of parts manual for a particular unit is necessary to determine correct internal parts.
- Some IPL part numbers have changed to reflect improvements, see chart for correct part number

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**Greaseable Tapered Roller Bearing Spindles**

- Tapered roller spindles were introduced on zero turn rider units on 9-15-2003
- This spindle housing and bearing are not compatible with existing Maintenance free sealed bearing units. While the dimensions may be similar the pulley shaft is splined (as opposed to keyed on maintenance free styles) and there needs to be openings on the deck shields for greasing. The easiest way to deal with replacement of either type is to replace sealed bearing applications with sealed bearings and tapered greaseable with tapered greaseable. Tapered roller bearings are not to be installed on older units.
- Tapered roller spindles are not available on walk behind units due to mounting orientation.

**The following chart is to be used when ordering new spindle assemblies for existing units with Sealed bearings. Sealed bearings (maintenance free, non-greaseable), with no servicing except replacement.**

<b>MAINTENANCE FREE / SEALED BEARING REPLACEMENT GUIDE</b>				
Original part number Sealed bearing	Replaced by Spindle kit for sealed bearing	Pulley shaft type	Bearing rebuild kit part #	Application
539102440	539107418	keyed	539107406	fixed deck walk behind mowers
539104403	539107408	keyed	539107406	floating deck walk behind mowers
539103298	539107410	keyed	539107406	IZ and mini ZTH mowers 42" and 48" decks
539103698	539107411	keyed	539107406	Gen 1 ZTH mowers 52" and 61" decks
539104403	539107408	keyed	539107406	Gen II ZTH mowers 52" and 61"
539105632	539107412	keyed	539107406	72 " ZTH Gen II mowers

**The following chart is to be used when ordering tapered roller bearing spindles. Tapered roller bearings are recognized by a splined spindle shaft**

<b>TAPERED ROLLER SPINDLE REPLACEMENT GUIDE</b>			
Original part Tapered roller Spindle	Repalced by tapered roller spindle kit	Pulley shaft type	Application
539108762	539108772	splined	IZ and mini ZTH mowers 42" and 48" decks
539108763	539108773	splined	Gen II ZTH mowers 52" and 61"
539108764	539108774	splined	72 " ZTH Gen II mowers