

# SERVICE BULLETIN

**Subject: Discontinuation the 27:1 Worm Shaft for A, A-2 Pinsetters, Optional Conversion to 60:1 Gearbox**

**Date: 7/6/17**

**Bulletin No. SB17-1**



**Note:** This bulletin applies only to A, A-2 and Japanese customers with 27:1 Worm Shaft Gear boxes. It does not apply to customers with 60:1 gear box pinsetters.

This bulletin is to inform A, A-2 and Japanese pinsetter customers that the gear box 27:1 Worm Shaft, part number 12-860722-000, is no longer available.

An option is available to convert the pinsetter gearbox to a 60:1 worm shaft. Please refer to the Brunswick Automatic Pinsetter Gear Box Disassembly manual, Part Number 12-900903-000, regarding the removal of the 4:1 Shaft Assembly.

## PARTS NEEDED FOR CONVERSION OF 27:1 TO 60:1 GEAR BOX

### GENUINE BRUNSWICK

**To convert the 27:1 to a 60:1 gear box using Brunswick Genuine Parts you will need to purchase the following:**

- 12-100174-002 / Worm Wheel
- 12-860172-000 / 60:1 Worm Shaft Assy.
- 12-100187-007 / Square Key for Worm Wheel
- Pulley and V-Belt (pick one of the following combinations)

<b>Motor Pulley Options</b>		<b>Belt Options</b>	
<b>Part Number</b>	<b>Description</b>	<b>Part Number</b>	<b>Description</b>
12-402081-000	A-2 (60 Cycle) 7.75	12-400329-000	V-Belt (Motor to Gear Box) - 60 cycle A Machines, Jet Back equipped
		10-635304-000	V-Belt (Motor to Gear Box) - 60 cycle A-2 Machines, new or converted (EL 67")
		10-635326-000	V-Belt (Motor to Gear Box) - 50 cycle A-2 Machines (69.5")
		10-635325-000	Motor to Gear Box A -2 1.5" Shorter (65.5")
12-502410-000	Jet back 6.25	12-400329-000	V-Belt (Motor to Gear Box) - 60 cycle A Machines, Jet Back equipped
		10-635309-000	Motor to Gear Box Jet back 2.5" Longer (81.5")
12-400081-000	A Machine 5.25	12-400034-002	Motor to Gear Box Belt - for A Machine 60 cycle (77.1")
		12-400034-002	Motor to Gear Box Belt - for A Machine 60 cycle (77.1")

**Quality Bowling Products**

**To convert the 27:1 to a 60:1 gear box using Quality Bowling Products Parts you will need to purchase the following:**

- 12-1174 Worm Wheel
- 12-8172 60:1 Worm Shaft Assy.
- 4-8520 Square Key for Worm Wheel
- Pulley and V-Belt (pick one of the following combinations)

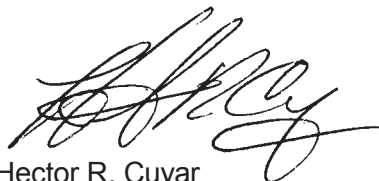
<b>MOTOR PULLEY OPTIONS*</b>		<b>BELT OPTIONS*</b>	
<b>Part Number</b>	<b>Description</b>	<b>Part Number</b>	<b>Description</b>
12-4081	Motor Pulley, A Machine - 5.25"/3.0" sheave	27-4L790	V-Belt (Motor to Gear Box) - 60 cycle A Machines, Jet Back equipped (79")
		27-A75	Motor to Gear Box Belt - for A Machine 60 cycle (77.1")
		27-A62	Motor to Gear Box A -2 1.5" Shorter (65.5")
12-4281	Motor Pulley, A-2 - 7.75"/3.0" sheave	27-A66	V-Belt (Motor to Gear Box) - 50 cycle A-2 Machines (69.5")
12-5410	Motor Pulley, Jet back - 6.80"/3.5" sheave	27-4L790	V-Belt (Motor to Gear Box) - 60 cycle A Machines, Jet Back equipped (79")
		27-A80	Motor to Gear Box Jet back 2.5" Longer (81.5")
12-5420	Motor Pulley, Jet back Special - 6.80"/3.0" sheave – slowdown A-2's	27-4L790	V-Belt (Motor to Gear Box) - 60 cycle A Machines, Jet Back equipped (79")
		27-A80	Motor to Gear Box Jet back 2.5" Longer (81.5")

\* Refer to page 54 of Quality Parts Catalog

To speak with a Brunswick representative, call 1-800-937-2695, select option 2, then option 3 or visit our website at <http://www.brunswickbowling.com/contact/sales-rep>.

If you have questions regarding the information contained in this Service Bulletin, please contact Brunswick Technical Support at 1-800-937-2695 or 1-231-725-4966, FAX 231-725-4667, or email [techsupport@brunswickbowling.com](mailto:techsupport@brunswickbowling.com).

Visit <http://brunswickbowling.com/service-support/tech-support/> for electronic files of this and other service bulletins.



Hector R. Cuyar  
Brunswick Technical Support



William P. Jager  
Brunswick Training and Publications Manager