

# SERVICE BULLETIN

**Subject: A22 Distance Encoder Sprocket Shield**

**Date: 7/23/10**

**Bulletin No.: SB10-1**

We have received reports that if the power cord is not retrieved properly during reverse travel of the lane machine, it could get caught under the machine and be damaged by the Distance Encoder Sprocket.

A Sprocket Shield Kit has been provided to every A22 customer to reduce the possibility of this damage. The kit contains a pair of shields, 4 plastic rivets and instructions for modifying the Distance Encoder Sprocket. Please be aware that it is still important for the lane machine operator to guide the power cord while the machine is in the reverse direction.

**i** **IMPORTANT!:** *This shield is specifically designed to prevent interaction between the Distance Encoder Sprocket and the power cord. **This shield must be installed as soon as possible.***

Please install this shield using the Installation Instructions, 14-900215-000, included with the kit. A copy of these instructions is included with this Service Bulletin for your information. During the installation of this kit, it is important that the power cord be inspected for possible damage. Use the list of original equipment replacement parts to replace any items in need of repair or replacement.

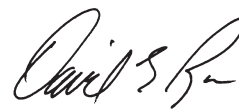
- 14-860208-115 - 115 volt power cord assembly
- 14-860208-230 - 230 volt power cord assembly
- 11-617076-001 - Braided sleeving - 54-1/2" long (138.4 cm)
- 11-617077-002 - Heat shrink tubing for 40" (1.106 cm) length inside the braided sleeve
- 11-617079-000 - Heat shrink tubing for 6" (15.2 cm) length to secure the outside of both ends of the braided sleeving
- 14-860225-000 - Sprocket Shield Kit

**i** **NOTE:** *If you have not received this kit, in the U.S.A., contact Brunswick Technical Support and we will make sure one is sent immediately. If outside of the U.S.A., your kit has been sent to our authorized distributor. Contact them to receive this kit as soon as possible.*

If you have questions regarding the information contained in this Service Bulletin, please contact Brunswick Technical Support at 1-800-937-2695 or 231-725-4966, FAX 231-725-4667, or Email [techsupport@brunbowl.com](mailto:techsupport@brunbowl.com) Visit <http://www.brunswickbowling.com/service-support/tech-support/> for electronic files of this and other Service Bulletins.



Chuck Heuer  
Senior Service Technician - After Market



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Director of World Wide Service

## **A22 Distance Encoder Sprocket Shield**

### **Packaging**

14-860225-000

Sprocket Shield Kit

### **Tools Required**

None

### **Safety**



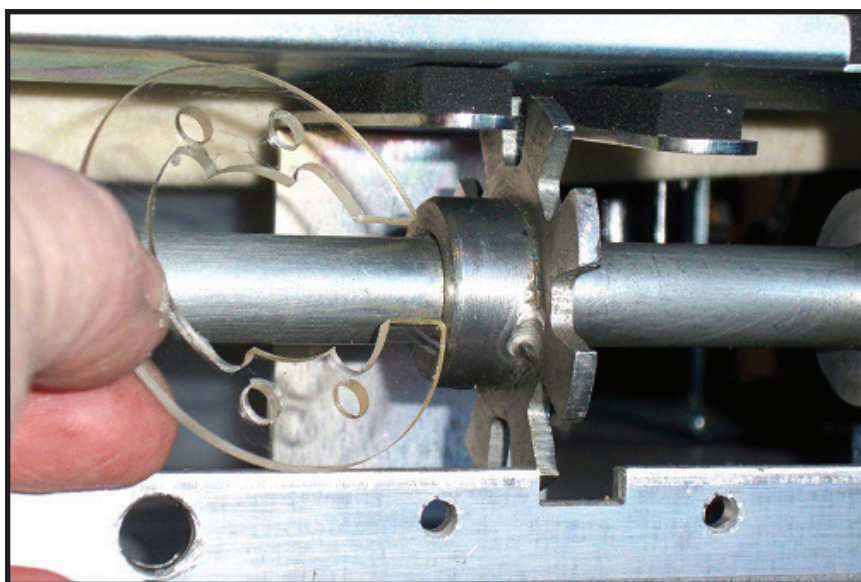
**WARNING!** Always unplug power cord from the machine before servicing or lifting machine into transport position. Never supply power to machine when it is in transport position.



**WARNING!** Brunswick recommends using a partner whenever possible to help with lifting or lowering the machine from the operating position. Take care when lowering this machine into the operating position. Use proper lifting and lowering techniques. Bend at the knees and use a back support, if needed.

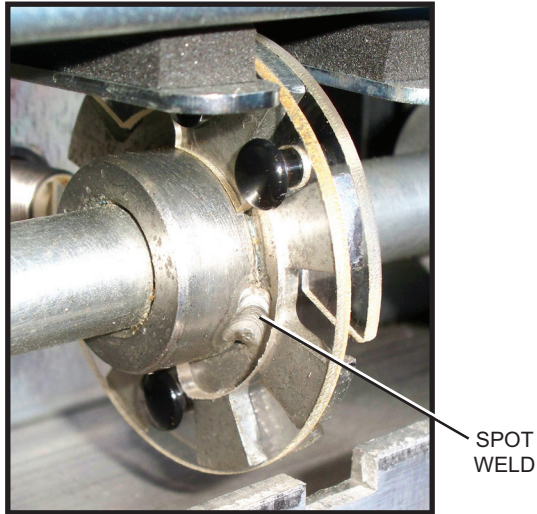
### **Installation**

1. Disconnect the power cord from the Authority 22 lane machine and lift it into the transport position.
2. Place one of the plastic shields on either side of the distance encoder sprocket. Note that the slot in the shield allows easy installation over the shaft. Refer to *Figure 1*.

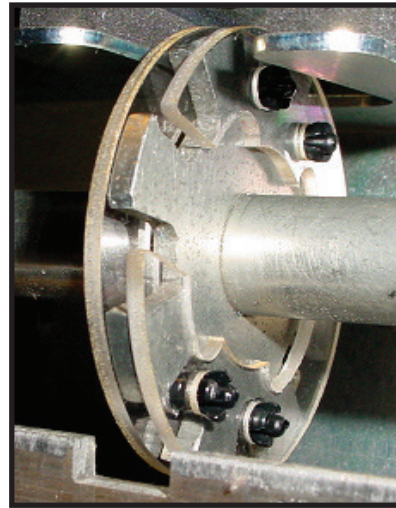


*Figure 1*

3. Refer to *Figures 2 & 3*. Position the two shields as shown, so that:
  - a. The spot weld on the hub is positioned for clearance on the shield's inside diameter.
  - b. The slots for the shaft are 180 degrees apart.
  - c. The holes are aligned so the two shields can be locked together using the plastic snap rivets provided in the kit.

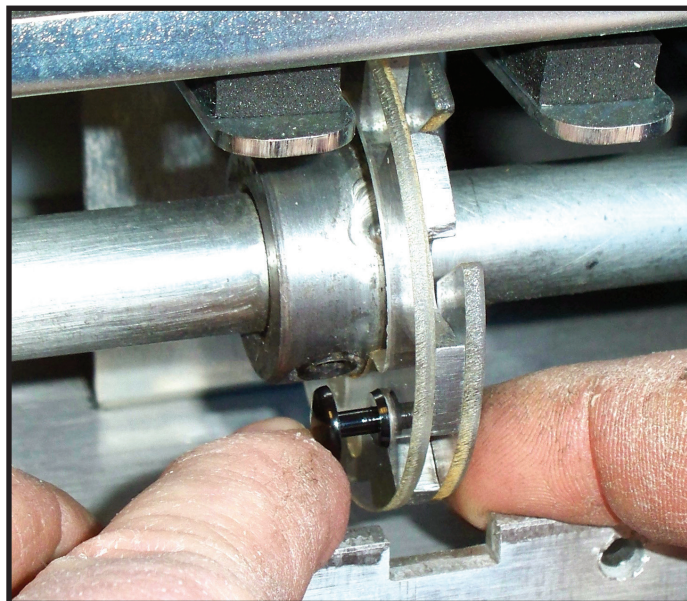


*Figure 2*



*Figure 3*

4. Hold the two shields together as the head of the plastic snap rivets are pressed to expand the end opposite the head, locking the shields together. Refer to *Figure 4*.



*Figure 4*

5. Rotate the rear shaft to make sure that the shields do not contact the end of the distance encoder. The proper gap between the encoder and the sprocket is 1.5 mm +/- 0.5 mm (.060" +/- .020").
6. Lower the machine into operating position and run a few lanes to assure proper operation.