

Adjusting Chain Tension, Alignment in Vertical Toasters

In Kit 826-1583		
Quantity	Description	Part Number
6	Tie Wraps	814-0015
2	Screw	809-0434
1	Instructions	819-5762
1	Lubricant	NA
1	Crumb Tray	200-0179
1	Heat Shrink	811-0068
Also Needed		
4	Roller Sprockets	810-1728
2	Idler Sprockets	810-1690
1	11/64 Drill Bit	NA

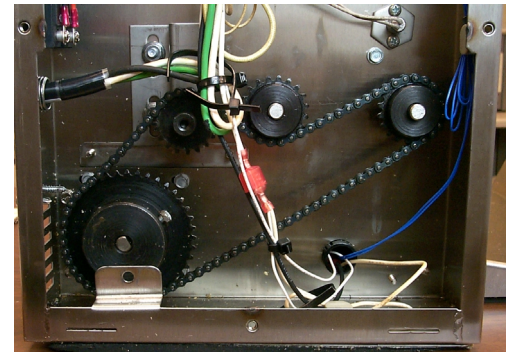


Fig: 1 Here's a look at the drive chain in the vertical Toaster with the vertical brace removed.

Follow these steps to access the chain alignment, tension and the condition of the sprockets in a McDonald's Vertical Toaster.

- Check line voltage and ensure toaster is set to line voltage. If not, restrap motor and transformer.
- Remove power from toaster.
- Remove the compression knobs and controller side of the toaster.
- Cut wire wraps from angled brace in cabinet and remove brace.
- Examine the position of the bolts securing the motor in place. Look behind the drive sprocket and ensure the motor is shifted as far toward the front of the toaster as possible. Fig 2.

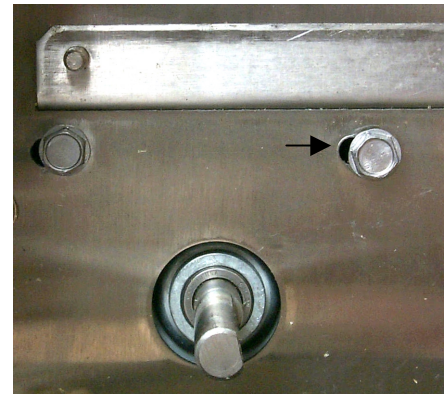


Fig: 2 Check the mounting slots before to ensure the motor is shifted toward the front of the toaster.

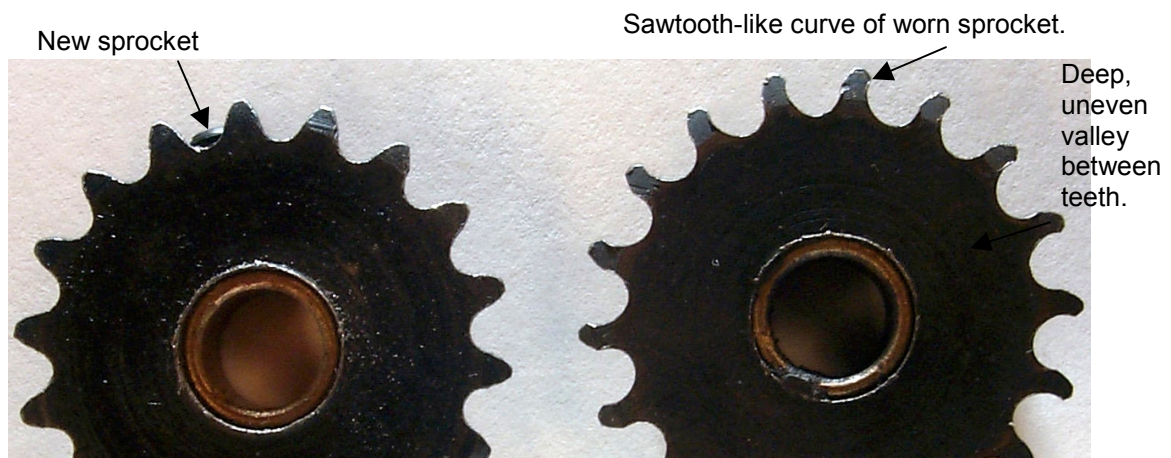


Fig: 3 A badly worn idler sprocket is show at right above. A new sprocket is shown at left for comparison. Note the sawtooth-like directional curve of the worn sprocket's teeth. Also note the depth and uneven wear between the teeth. Sprockets showing this type of wear should be replaced.

- Examine the drive and idler sprockets carefully. The wear between the sprocket's teeth should be evenly distributed. If the sprocket's teeth have a pronounced sawtooth-like curve (see photo) the sprocket should be replaced. Fig 3.

Pinning Idler

- Loosen idler and twist clockwise, ensuring the top stud rests on the left side of the idler and the bottom stud rests against the right side of the bracket. Tighten mounting bolts, ensuring there is ¼" deflection from center with light pressure on the lower run of the chain. Fig 4.
- Run the unit with the side panel off to ensure the chain runs in a flat plane.
- With the idler properly positioned, use a high-quality 11/64-inch drill bit to drill through the bracket and the cabinet wall. Fig 5.
- Secure the idler in this position with a #10 screw. Fig 6.



Fig 4: Cock the idler assembly, as shown to ensure proper tension on the chain and tighten nuts. *(Shown with chain off to reveal position of studs.)*



Fig 5:



Fig 6

Use a high-quality 11/64" drill bit to drill through bracket and the cabinet. Use a #10 screw to lock the bracket in place.

Installing Heat Shrink

- Cut the wire wraps from the power cord lines that enter through the stress relief.
- Cut the supplied heat shrink into two equal lengths.
- Disconnect the power cord lines from the latching relay. Pull the wire from the wiring bundle, creating a clear path from the terminal end to the point the wire enters the cabinet.
- Fig. 7 Slide the heat shrink on the white wire, pushing it flush to the stress relief.
- Fig 9.
- Leave enough material on the terminal end to partially cover the terminal. Fig. 8
- Apply heat to the shrink wrap. Fig. 10.
- Plug terminal back on latching relay while the heat shrink is still warm. The wire will stiffen as the heat shrink cools, making handling more difficult.
- Repeat procedure for black wire.
- Realign power cord lines with wiring bundle and secure with wire wraps.

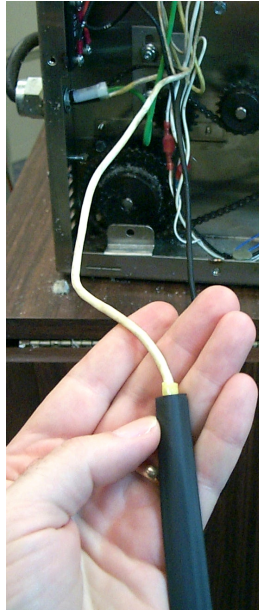


Fig: 7

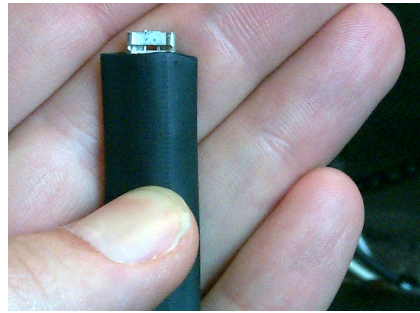


Fig: 8

Slide the heat shrink (left) into place on the power cords, one cord at a time. Leave the terminal (above) partially covered.



Fig: 9

The heat shrink (left) tubing should rest firmly against the stress relief.



Fig: 10 Apply heat to secure the shrink wrap in place.

Installing Crumb Catcher

- Remove the rear screw securing the controller-side front roller to the cabinet wall. Fig 11.
- Place crumb catcher in place in cabinet and replace roller-securing screw, which now also holds the crumb catcher in place. Ensure the screw securing the crumb tray is tight and the tray does not rattle in the cabinet. Fig.12.



Fig: 11 This screw on the controller side of the front upper roller is removed to accommodate the placement of a crumb catcher.

- Replace angled bracket and securing wiring bundle with wire wraps.
- Lubricate chain with supplied lubricant.
- Reinstall side.
- Replace the side panel and replace compression knobs. The setscrews in the knobs go to the flats on the compression setting shafts.
- Set knobs to 3 and C.
- Apply power and verify correct operation.

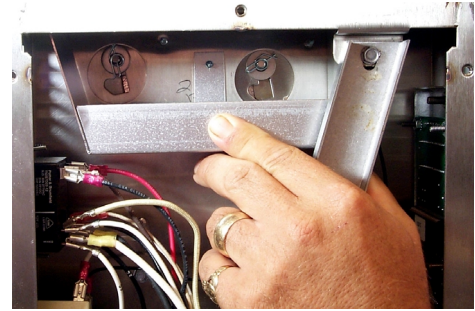


Fig: 12 Position the crumb catcher inside the top of the controller-side cabinet. It mounts under the axles of the front rollers. Replace the screw removed from the front axle to secure the crumb catcher. Ensure the screw holding the crumb catcher is tight and the tray does not rattle in the cabinet.