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Wehmer Dual Wheel Trimmer Maintenance Tips #3

Changing the Drive Belts

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Drive belts, those two reinforced textile bands that transfer motion from the motor and the coarse wheel to the fine wheel, will have a tendency to wear and stretch over time, creating slippage of the fine wheel. When performing this routine maintenance activity, check for any signs of water or plaster residue on the belts and in the belt-housing area. This may indicate flooding of the machine due to blockage of the drain area, and seepage of both moisture and abrasive gypsum into areas where they could cause more serious damage. Plaster residue on the belts can cause premature wear of the belt drive grooves in the hubs, as well as damage to the motor and bearings.

1. **Unplug your machine,** turn off the **water supply,** and disconnect the plumbing at the machine by unscrewing the **pipe union** (the large 15/16" nut in the water supply line).

91350000. Remove the worktable and all tools. Remove the work light and safety shield (if required).

91350048. Undo the seven (7) **housing screws** and take off the **front housing/cover.**

91350096. Remove the fine wheel first, using the spanner wrench #3208 (counterclockwise to remove). Make sure that threads on each hub are clean of plaster before trying to turn off the **wheel nut**. Use a wire brush if needed. Also remove the plastic **spacer**.

91350144. Remove the fine wheel **back-up plate (**aluminum disc behind the wheel). Both back-up plates are secured in place with three (3) pan head machine screws (Phillips) / size 8-32 x 1/4". Once these screws are removed , the back-up plate should pull off easily. If it does not, apply some penetrating oil around the center hole, and at the union between the plate and the **hub**. Pull outward from the top edge of the plate, rotating 1/8 - 1/4 turn per each pull. Repeat until plate is free. **DO NOT strike the back of the plate with a hammer, as it may bend out of shape and not spin smoothly when the machine is operating.**

91350192. Repeat steps 4 and 5 for the coarse wheel, removing both the wheel and the back-up plate.

91350240. Clean both back-up plates on both sides, scraping off any plaster build-up which could interfere with the balance of the wheel. Also clean the mating surfaces on the wheel-mounting hub.

91350288. You should be looking at two hubs and two **slingers** - the round aluminum flanges that cover the **rubber seals** in the belt housing plate. Identify these slingers so that you can return them to their original locations - they're slightly different and not interchangeable.

91350336. Remove the slingers. The left (coarse wheel) slinger is easy; it's only held on by the back-up plate. With the back-up plate removed, it just pulls off. The right slinger is held in place by a black rubber **"O"ring,** seated in a groove in the hub. Carefully remove the "O"ring and pull off the slinger. New slingers may be required if metal is deteriorated, deformed, or if there is excessive dried plaster. *Notice the machined lip in the hub on which the slinger rests. Make sure this lip is clean and free of plaster.*

91350384. The **belt housing plate** is next. It is held in place by 12 small screws around its periphery, sealed with silicon glue around the seam. Cut off the silicon and remove the screws. Take off the plate, exposing the **drive belts.**

91350432. Cut the old belts to remove.

91350480. To install the new belts, slip them both over the coarse wheel hub and onto the motor shaft behind the hub. Now position them fully inside the corresponding grooves on the fine wheel hub. Pull each belt forward as you rotate the coarse wheel hub counterclockwise. Make sure the belts are not twisted.

91350528. Before reassembling your trimmer, check the new belts for slippage by rotating the coarse wheel hub while putting resistance on the fine wheel hub. If the new belts still slip, you may need new hubs, as the hub grooves may have become worn. Aluminum hubs should be automatically replaced with newer-style brass hubs.

91350576. Re-assemble your trimmer and relax.

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