



KUT--KWIK UNDERCUTTER MODEL KK180 INSTRUCTIONS & PARTS LIST

AIR MOTOR:

Connect to an air supply with line pressure of approximately 90 p.s.i. A Martindale Automatic Filter-Lubricator must be used to keep the motor adequately lubricated. Failure to do so will void warranty. The angle head should be greased through the flush fitting on the right side of the head after every 8 hours of operation. Attach grease tube to gun, insert nozzle in fitting and pump 4 to 5 times while squeezing the tube. Grease the gear case, which is located between the air motor body and the spindle housing, in same manner after every 250 hours of operation.

SAWS & V-CUTTERS:

This special 18,000 RPM Kut-Kwik Undercutter is designed for use with 3/4" dia. and 7/8" dia. x 5/16" hole Diamond Coated Cutting Wheels. These wheels are available in thicknesses, as shown in the Martindale Products Catalog or on line at www.martindaleco.com.

Some customers have experienced success using tungsten-carbide saws with this undercutter as the speed of this unit lends itself to the higher speeds required for carbide. Because of the brittle nature of carbide these saws are susceptible to breakage and must be used with extreme care so as not to wedge the saw in the slot.

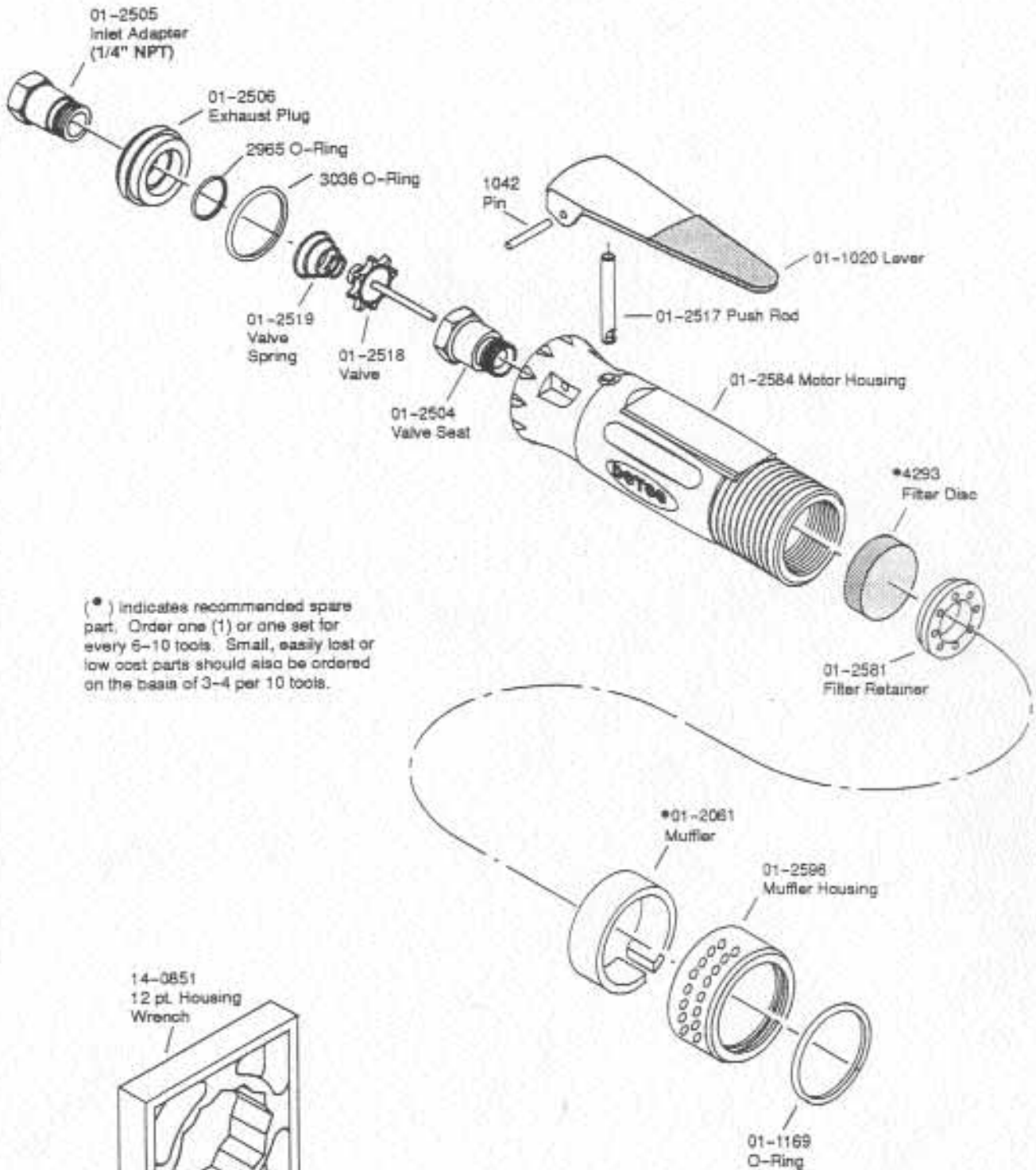
OPERATION:

To attach the saw arbor rotate spindle by hand until holes line up in shaft and housing. Insert lock pin through hole. Put diamond wheel on arbor making sure diamond wheel is seated on shoulder. Screw the arbor into the head. **DO NOT OVER TIGHTEN.** Note: Diamond Wheels will cut when rotated in either direction but if saws are being used care must be taken to assure the saw teeth are pointed in a counter-clock-wise direction. Tighten the retaining nut with the two 3/8" wrenches. Rotate the nylon depth gauge to allow the desired depth of cut. With the cutter wheel to the operator's left, start cutting at the riser and pull the tool back toward the operator. Experience will show the operator the proper cutting rate.

It is recommended that a Protective Mask and EYESHIELD be worn when undercutting to insure operator safety and comfort.

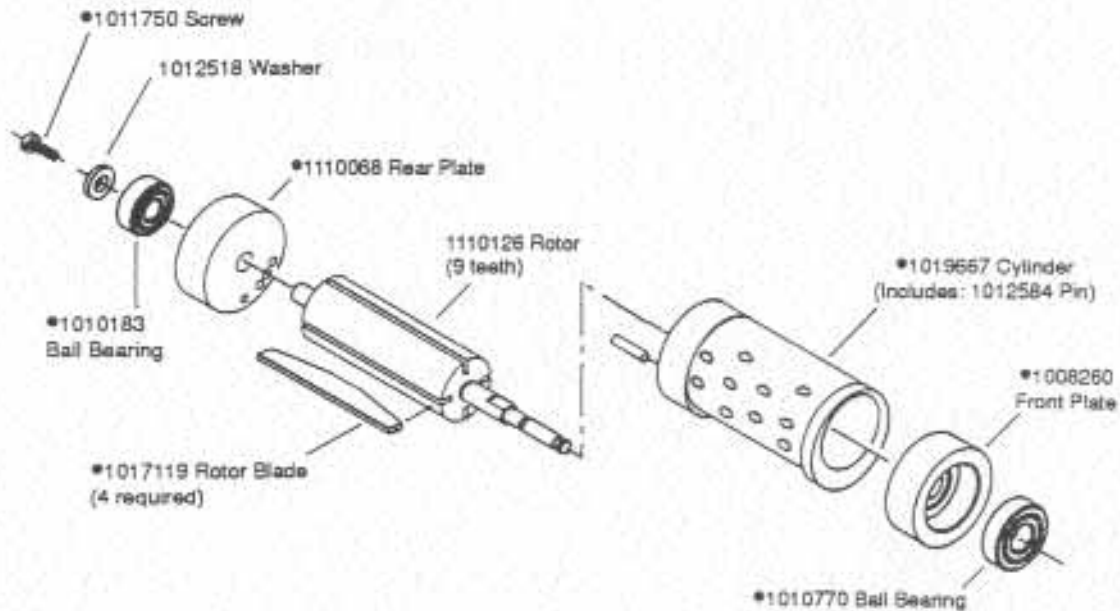
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Motor Housing Assembly

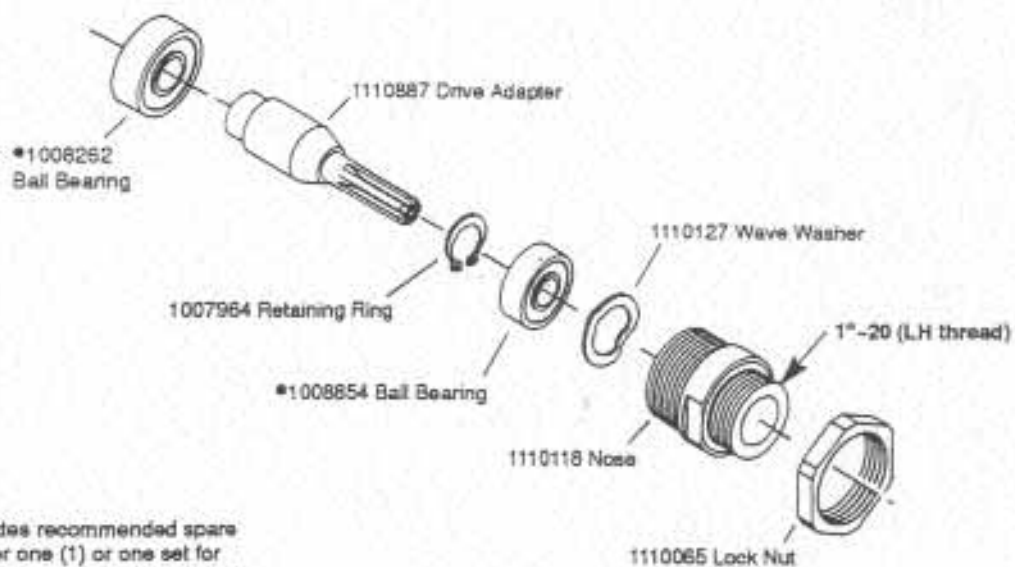


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Motor Assembly

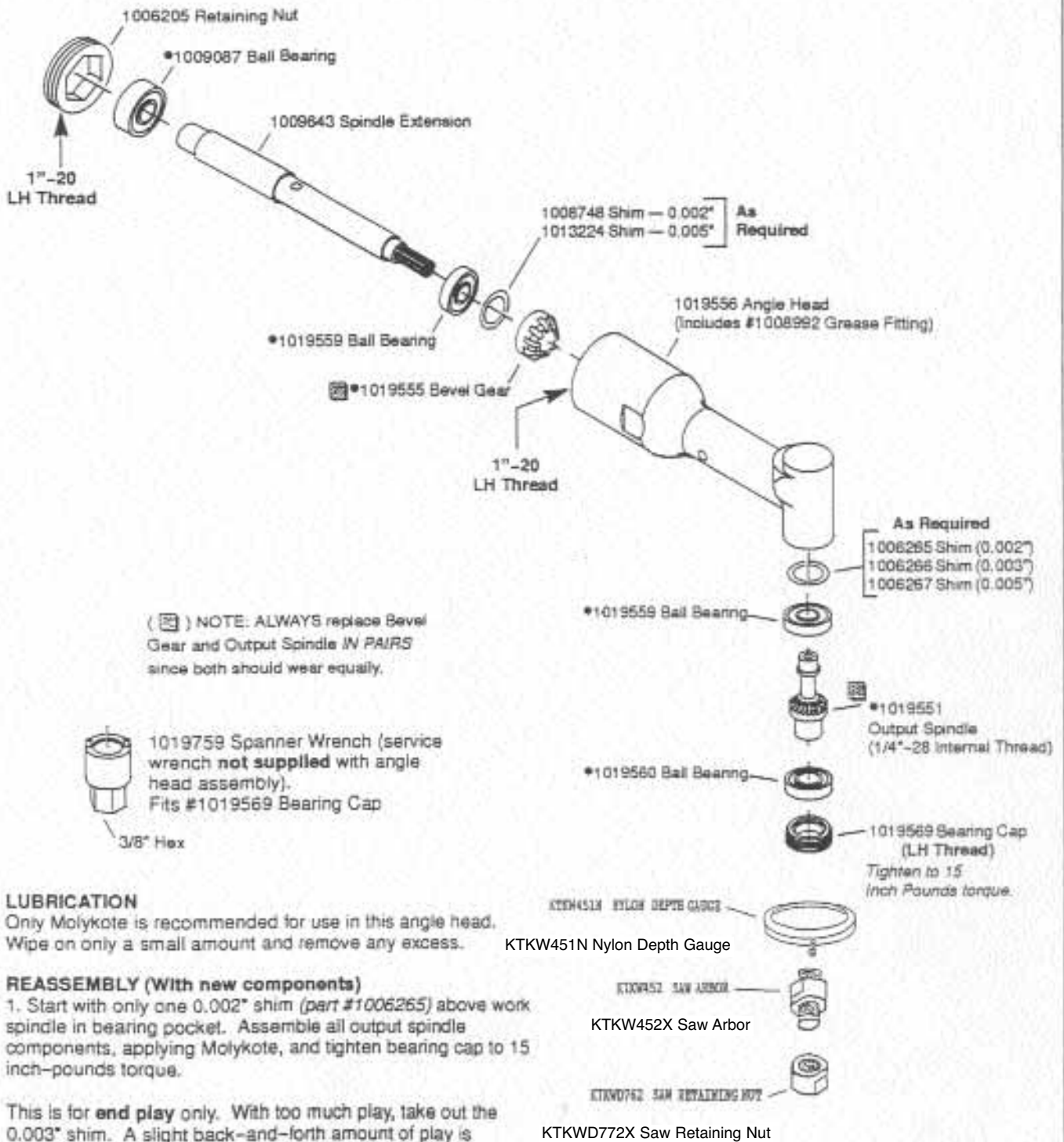


Nose Assembly



(*) Indicates recommended spare part. Order one (1) or one set for every 8-10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3-4 per 10 tools.

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LUBRICATION

Only Molykote is recommended for use in this angle head. Wipe on only a small amount and remove any excess.

REASSEMBLY (With new components)

1. Start with only one 0.002" shim (part #1006265) above work spindle in bearing pocket. Assemble all output spindle components, applying Molykote, and tighten bearing cap to 15 inch-pounds torque.

This is for **end play** only. With too much play, take out the 0.003" shim. A slight back-and-forth amount of play is acceptable and necessary.

2. Assemble all remaining components and check gear "shake". This is for **gear mesh** which should be no more than 0.005".

3. Be sure to apply Molykote before assembly.

(*) Indicates recommended spare part. Order one (1) or one set for every five (5) tools, or two sets for 6-10 tools. Small, easily lost or low cost parts should also be ordered on the basis of 3-4 per 10 tools.