



## Pulley Replacement Procedure

<u>Parts Needed</u>			<u>Tools Needed</u>
<u>Qty.</u>	<u>Part #</u>	<u>Description</u>	
1	817135	Pulley Assembly	-5/16" wrench, closed end or 5/32" allen wrench
1	818349	½ x ¼ x 20 Safety Bolt	-7/16" wrench, closed end or ratchet and socket
1	818285	¼ Lock washer	-Metal file, small and fine preferred
1	818293	¼ Flat washer	-One sheet of wet/dry type (black) sandpaper (600 grit) or fine emery cloth
1	818361	9"x.029d safety wire	-Socket and ¼" or 3/8" drive ratchet, & 5/16", 7/16" sockets (only a 5/16" socket with eight or more internal sides will work on set bolts, otherwise use the 5/16" wrench)
			-Several clean rags
			-Bolt thread locking liquid or 'glue' (available at auto parts stores & hardware stores)
			-Vise grips
			-Side cutters

### **Instructions:**

1. Disconnect the washer from the power source.
2. Remove the four 5/16 headed screws located at the bottom of the front panel.
3. After the screws have been removed, grasp the panel on both sides and pull forward. Allow the panel to drop free of the top assembly and set aside.
4. Remove safety wire (Part No. 818361) from old pulley.
5. Remove front bolt and washer (Part No.'s 42, 41)
6. Back-out set-screws or set-bolts on old pulley by unscrewing with a 5/32" allen wrench or 5/16" closed-end wrench.
7. Grasp opposite sides and pull the old pulley toward you until off. Wiggle pulley while pulling may be necessary.
8. Clean shaft with a rag.
9. File down ridges with a small fine file where set-screw was until shaft is smooth
10. Clean and polish with a strip from a sheet of fine emery cloth or wet-dry sand paper (600 grit)
11. Inspect the new pulley making sure the set-bolts are backed-out and recessed in the pulley body so they cannot touch the shaft. Wipe the inside of the pulley with a rag to make sure there are no small bits of dirt, grit, or machine shaving.
12. Push the new pulley onto shaft by wiggling at different spokes. Or you can wiggle, turn pulley, then again wiggle the pulley at two different spokes, turn, etc. Continue until the

back of the pulley is “snug” against the rear spacer washer. Note: If this does not work put a small piece of wood (block from a 2x4) against the center of the pulley. Then gently tap the block with a small hammer. Rotate the pulley after a few taps to insure it goes on straight. Continue until the back side of the pulley center is against the back spacer (Part No. 40) See Figure, Parts, Page 17 in Operator’s Manual.

13. Turn pulley and make sure it turns smoothly and is not making any scraping sounds or feels loose. You can inspect the back of the pulley with a small compact mirror and a flashlight to insure the pulley is pushed far enough onto the shaft.
14. Clean all dirt and any oil on front bolt and washer from above Step 5 (Part No.’s 42, 41). Put a few drops of thread sealant on threads. **Then, replace lock washer, flat washer, and front bolt. Tighten front bolt with a 7/16” wrench or socket.**
15. Run the supplied safety wire through the drilled hole in the spoke of the pulley and hole of the bolt head.
16. Bend the ends so they are of equal length side-by-side.
17. With a pair of vise grips, grip both wires then twist until they are braided to the bolt head. **CAUTION: DO NOT TWIST THE WIRE IN HALF.**
18. With a pair of side cutters, cut off the excess leaving from ½ to 1 inch in length of twist.
19. **Now, tighten both set-bolts with a 5/16” wrench or socket and ratchet.**
20. Replace belt by attaching to small motor shaft at bottom then working belt onto new large pulley.
21. Adjust belt tension so that there is approximately 1/4” deflection on either side of the belt midway between the two pulleys (or 65-70 lbs.) and tighten adjustment bolt. Check belt tightness by pushing inward at mid-point between the pulleys. It should not stretch or move inward more than a ¼” from its original position. If belt is too loose, refer to replacing drive motor and belt tightening instructions on page 10 of the Operator’s Manual.