



PRAIRIE WET GRINDSTONE

INSTRUCTIONS & PARTS LIST FOR MODEL G7

CAUTION: Read carefully the paragraphs on "PROPER SET-UP" ... UNDER NO CIRCUMSTANCES SHOULD WHEEL SPEED EXCEED 150 RPM.

This instruction and parts list is for your use. Keep it as you do any paper of value, in a safe place where it can be found easily. It contains information necessary to take care of your machine properly. If you ever need any replacement parts for your machine refer to the parts list.

UNPACKING — Your wet grinder is shipped complete (without motor, motor pulley or belt). Before each grinder is packed for shipment it is checked and adjusted. However due to jarring while in transit a few adjustments may be necessary.

PROPER SET-UP — MOTOR & PULLEY SPECIFICATIONS — You should use a 1725 RPM motor with a 1½" diameter motor pulley. The 6" pulley which is supplied loose in the carton should be mounted on the shaft (counter shaft) which extends out of the guard. This should be driven by the 1½" pulley on the 1725 RPM motor.

On the opposite side of the grinder, you also have a pulley arrangement. Under no circumstances should you alter the 1½" pulley driving the 5" pulley with a 22" belt, as supplied and illustrated in the instruction sheet.

BELT TENSION — The belt should have just enough tension that no slippage will occur while tools are being ground. Too much tension will cause excess wear on both the wheel shaft and the countershaft. To change the tension of the belt, loosen the cap screw which holds the combination guard and countershaft to the base. The countershaft can then be moved forward and back, whichever may be necessary. Tighten the countershaft screw after adjusting so that it will not move when the motor is turned on.

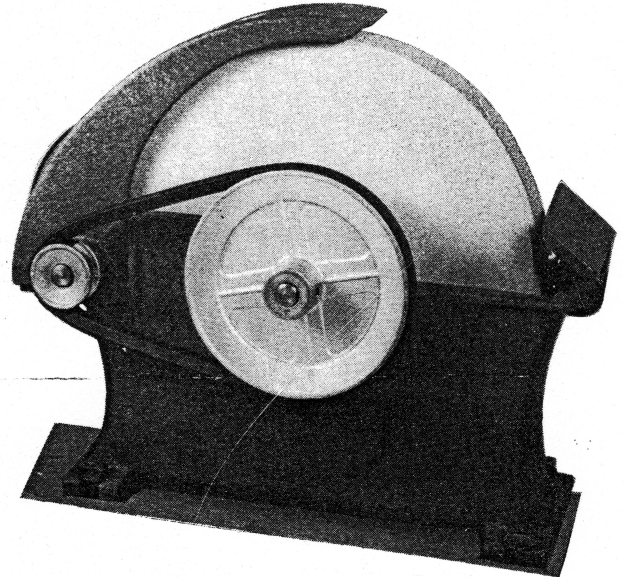
DIRECTION OF WHEEL ROTATION — The grinding wheel should rotate away from the operator (clockwise, when viewed from right side of tool). If allowed to rotate toward you the wheel may throw water on you.

PROPER USE OF WATER — Put only enough water in the grinder to touch the bottom of the wheel. Excess water will cause the wheel to throw it on the operator. Never operate the grinding wheel dry. This will "load-up" the stone with metal and greatly reduce its efficiency.

CAUTION — A drain plug is provided in the base of your wet grinder. Drain the water each time you use it — and refill later, even if you are to use your grinder again in a few hours. Standing water may soften the grinding wheel at point of contact. Further, if water freezes in the tool it may crack the wheel, or even the base.

LUBRICATION — The COUNTERSHAFT BEARING is lubricated by a oil hole located in the center of the extra long bearing. Use any good grade of oil in this bearing. The slow moving WHEEL SHAFT BEARINGS need very little lubrication — oil holes in each bearing are very accessible. A couple drops of oil, in each whenever needed is sufficient.

CARE OF YOUR GRINDING WHEEL — Your grinding wheel is a natural WET-STONE. It is better for fine-edge sharpening of fine-tempered tools and will give excellent service if given proper care. THIS WET-STONE is operated at much slower speeds than a dry stone so the danger of over-heating (drawing temper from) your tool is practically eliminated. Never operate the grinding wheel dry as this will "load-up" the stone with metal and greatly reduce its efficiency. If the cutting face of stone becomes rounded, grooved, dull, out of true or "loaded" it can be restored by dressing. Do not use a rotary steel wheel dresser, but instead use a piece of broken WET-STONE, an old dry stone (abrasive grinding wheel) or a piece of concrete. Rest this dressing stone on the work rest and



guide it back and forth across face of revolving WET-STONE until the face is clean, smooth and straight.

TOOL REST — The tool rest is adjustable and should be set close to the wheel (about 1/8") so that the edge being sharpened is properly supported. Care should be taken to exert an even pressure against the stone with the object being sharpened. Otherwise, there will be a tendency to gouge the stone which will throw it out of round.

PARTS QUAN. USED	LIST PARTS No.	DESCRIPTION	WGT. EACH
1	G7	Base	13 lb.
1	G7W	Wheel and Center	12 lb.
1	G71	Guard and Countershaft	5 lb.
1	G72	Tool Rest	1 lb.
1	G73W	Wheel Shaft	7 oz.
1	G73C	Countershaft	7 oz.
1	G741	1½" V-Pulley ½" Bore	8 oz.
1	G745	5" V-Pulley ½" Bore	1 lb.
1	G746	6" V-Pulley ½" Bore	2 lb.
1	G75	½x22" V-Belt	6 oz.
4	G77	½x¾x1/32 Fibre Washer	3 oz.
1	G78	⅛ IPT Drain Plug	3 oz.
2	G79	¼x18x1" Cap Screw & Washer	4 oz.
1	G791	¼x¾ Set Screw for wheel ...	3 oz.
1	G792	¼x¼ Set Screw for 1½" Pulley	3 oz.
1	G793	¼x½ Set Screw for 5" Pulley .	3 oz.
1	G80	¼x¾ Set Screw for 6" Pulley .	3 oz.

HOW TO ORDER

- When ordering repair parts be sure to give the complete number, description and weight of the part you want.