





Modern Process Equipment, Inc. Chicago, Illinois





OVERVIEW

The Model GPX Disc Style Coffee Grinder utilizes precision cut "diamond hard" grinding plates to produce up to 400 lbs per hour of a full range of coffee grinds. The grinder utilizes a 3 HP (1800 RPM) motor to drive a rotor, which incorporates an auger feeder and a rotating grinding disc. The rotor also incorporates turbo vanes to maximize throughput and minimize product accumulation within the unit.

The gap between the rotating grinding disc and a stationary grinding disc, which is mounted directly opposite on the grinder housing, determines the type of coffee grind produced. The machine's grind adjustment knob utilizes a screw assembly and thrust bearing to vary the position of the rotor on the motor shaft and, consequently, adjust the gap between the grinding discs. This disc gap variance provides the capability of "dialing in" any one of a full range of coffee grinds, from drip to espresso.

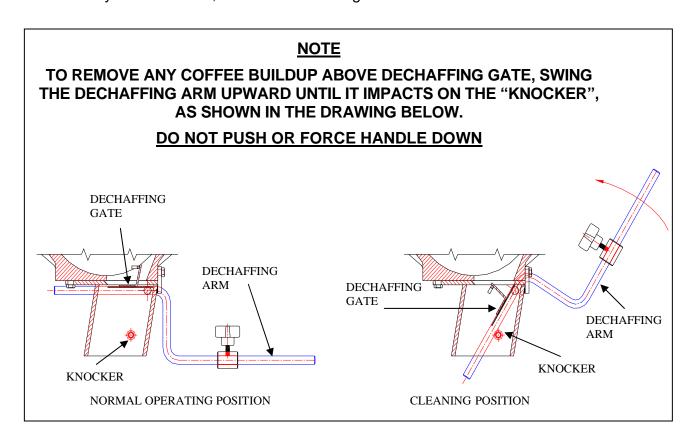
On "American" style coffees, it may be necessary to utilize the dechaffer on your GPX grinder. By utilizing the weight on the dechaffing arm, back pressure is exerted on the coffee being expelled from the grinder, thereby breaking up the "chaff" (broken coffee skin) which is released when the bean is ground. By moving the weight outward on the dechaffing arm, the back pressure and the resulting level of dechaffing is increased. When producing very fine coffees (melitta, espresso, turkish), the dechaffing level should be minimized or, in some cases, eliminated by removing the weight.





OPERATION AND MAINTENANCE

Because of its uncomplicated design, the GPX grinder is relatively simple to operate. Prior to starting the grinder, ensure that the coffee bean control gate is fully closed. To grind coffee, simply start the grinder, fill the hopper with the desired amount of beans, set the dechaffer arm weight, "dial in" the desired grind on the grind adjustment knob, and open the bean control gate. As a starting point, the dechaffer arm weight should be set at 1/2 the arm distance for medium to coarse grinds, and at the bottom of the arm (fully toward the machine) for finer grinds. When the grinding run is complete, close the control gate, lift the dechaffer arm to remove any excess coffee, and shut down the grinder.

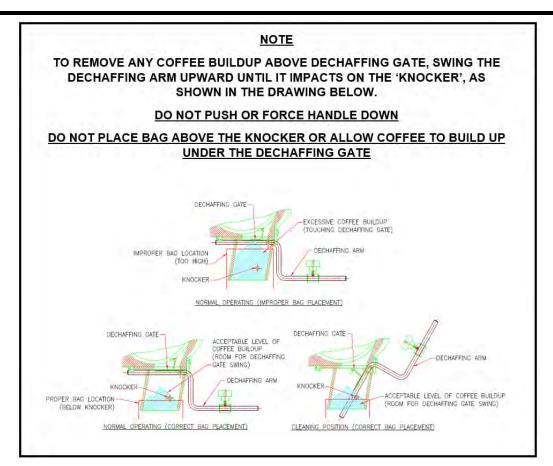


To change the grind range on the grind adjustment knob, loosen the knob set screws, rotate the adjusting screw in the middle of the knob (Clockwise=Finer) to the desired point, and retighten the knob set screws.

CAUTION!

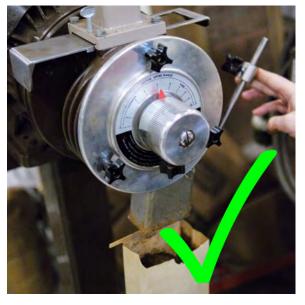
LOCK OUT OR DISCONNECT MOTOR PRIOR TO ATTEMPTING WORK, REPAIR OR REMOVAL OF COVER FROM THIS UNIT.







Don't push down on the dechaffing arm as this may damage the dechaffing gate.



Do lift up the dechaffing arm and lower the coffee bag at the end of grinding. This empties the burr housing.







Video on how to use and not use a dechaffing gate.





MPE webpage for troubleshooting common GPX issues.





How to install a dechaffing gate and add a dechaffing arm.







WATER COOLING

The GPX.WCI has an integrated water cooling loop that flushes water through the aluminum grinder housing to remove heat from the grinding process.

The closed loop system includes a pump, heat exchanger, fan, and mode selector switch.

OPERATING MODES

OFF -Pump is OFF

ON -Pump is ON; water will flow through the grinder head.

AUTOMATIC -The water cooling pump starts automatically when the

grinder is started and stops automatically one minute after

the grinder is stopped.

NOTE

WATER COOLING SHOULD REMAIN IN AUTOMATIC MODE.





On occasion, the grinder will require disassembly for cleaning and/or grinding disc replacement. To disassemble, remove the front cover after first removing the (3) front cover screw knobs. After the front cover has been removed, the rotor can be pulled out either by hand or by utilizing "ejector screws" on the rotor insert (part #4 on drawing SG-1206-B) which, when screwed in, act against the motor shaft to force the rotor out. Refer to drawing SG-1206-B for further details on the internal construction of the grinder.

NOTE

PRIOT TO GRINDING, CONFIRM THAT THE DRIVE MOTOR IS TURNING COUNTER CLOCKWISE AS VIEWED FROM THE FAN END OF THE MOTOR. A MOTOR ROTATION STICKER IS LOCATED ON THE FAN GUARD. THE GRINDING BURR TURNS CLOCKWISE AS VIEWED FROM THE GRIND ADJUSTMENT KNOB.





NOTE

NOT ALL DRAWINGS APPLICABLE TO EACH GPX GRINDER. THE APPROPRIATE ELECTRICAL DRAWING SHOULD BE USED BASED ON THE ACTUAL GRINDER SPECIFICATIONS.

Drawings

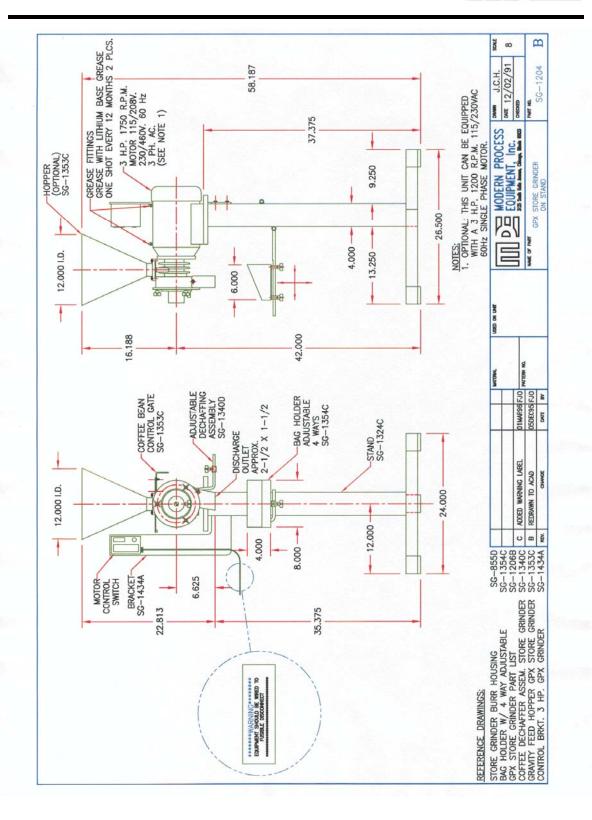
GPX Store Grinder on Stand	SG-1204B
GPX-B Store Grinder Bench Model	SG-1205B
Model GPX Disc Style Grinder Parts List	SG-1206B
Electrical Schematic 230V AC GPX.WC 3PH	EL-7357-1
Electrical Schematic 230V AC GPX.WC Single PH	EL-7357-4
Model GPX Disc Style Coffee Grinder With Parts List	SG-2520C
GPX Store Grinder on Stand with WC Box Location	SG-7353





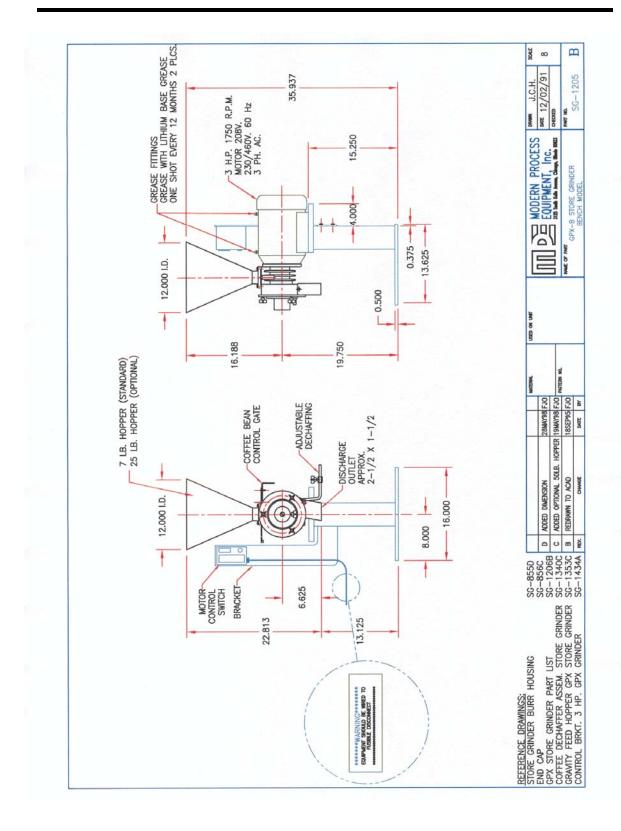






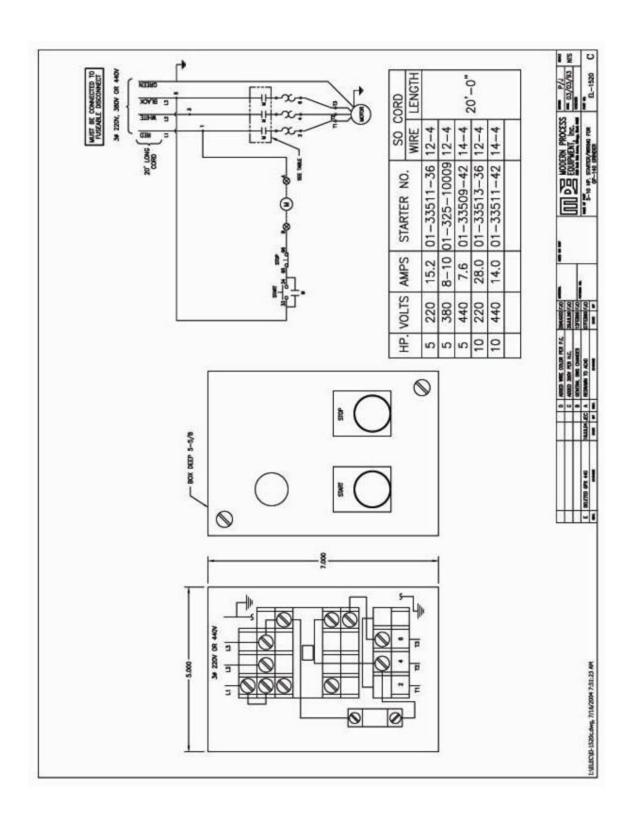






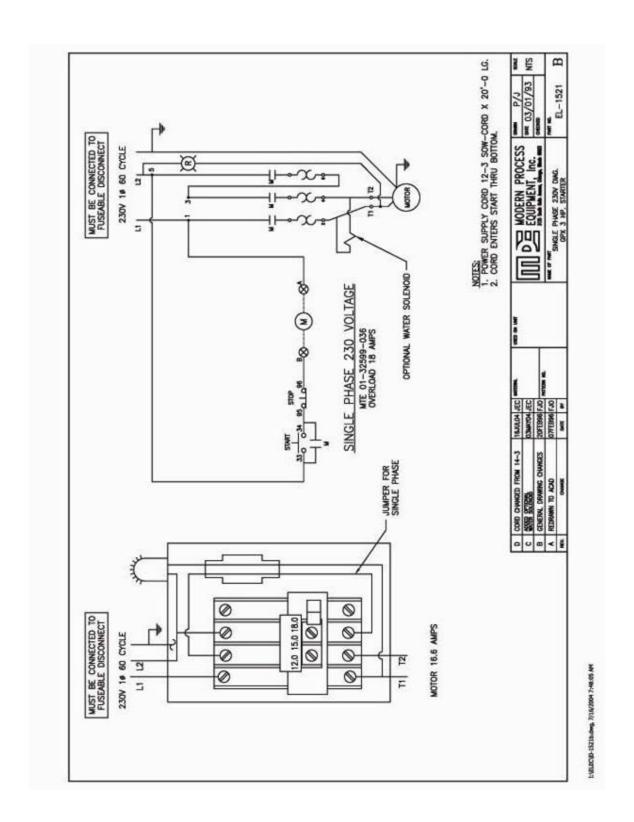






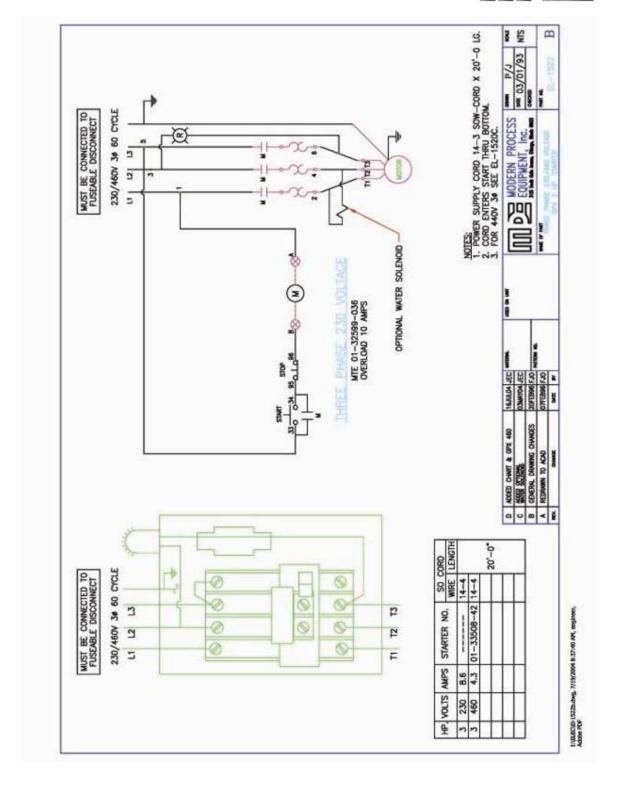


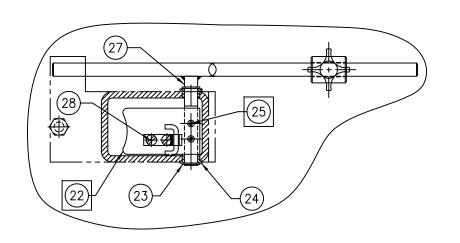










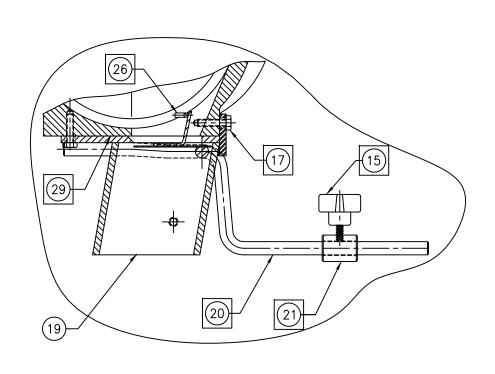


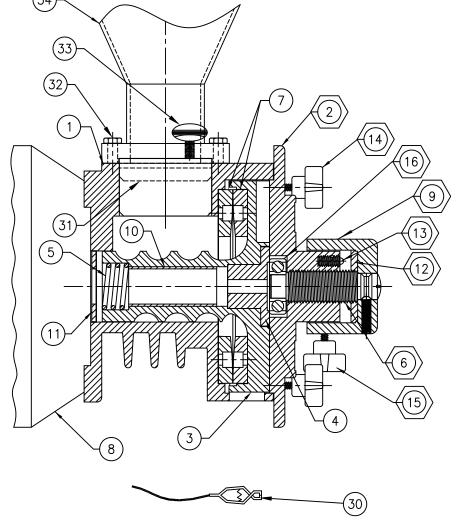
ITEM	QTY	PART #	HP	RPM	FRAME	VOLTS	PHASE	HZ	1	1	3-SG-00855	BURR HOUSING (56C FRAME)
	1	MOT-1272	3	1725	182TCZ	208/230/460	3	60	2	1	3-SG-00856	END CAP
8	1	MOT-1291	3	1725	184TCZ	220	1	60	7	1	5-SG-12263	ROTOR W/ BUSHING & INSERT
	1	MOT-1354	3	1425	182TCZ	380	3	50	3	1	5-SG-12912	TURKISH ROTOR W/ BUSHING & INSERT
	HOPPERS				4	1	3-SG-00858	ROTOR INSERT				
ITEM	QTY	PART #		DESCRIPTION		5	1	MEC-1656	SPRING			
	1	5-SG-01353-	02	TRANSI	ITION - H	OPPER 8LB SS			6	1	3-SG-00891	ADJUSTING SCREW
34	1	5-SG-04310-	2	TRANSI	ITION - H	OPPER 25LB SS			7	1	5-SG-12342	GRINDING BURS
	1	3-SG-04311-	02	TRANSITION - HOPPER 50LB SS						1	5-SG-12478	TURKISH GRINDING BURS
					·				a	1	_	MOTOR (SEE CHART TO THE LEET)

ITEM QTY

MOTORS







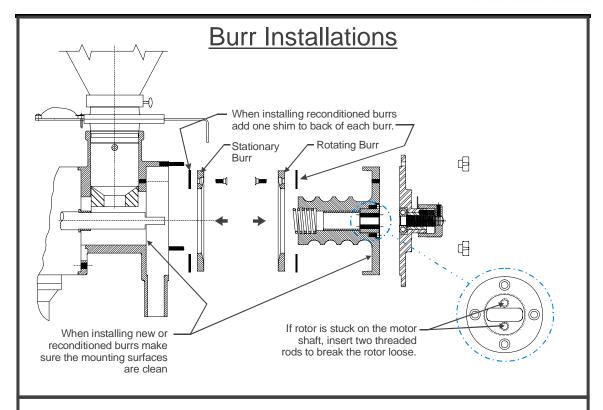
NOTES:

- 1. REFERENCE DRAWING 5-SG-02520
- 2. BALLOONS MARKED WITH ☐ ARE INCLUDED WITH 5-SG-12255.
- 3. BALLOONS MARKED WITH $\overline{\bigcirc}$ ARE INCLUDED WITH 5-SG-12253.

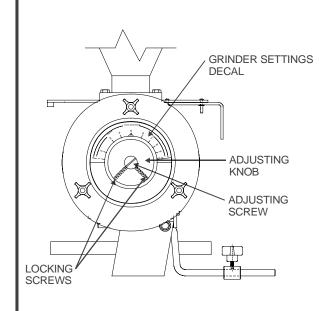
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				PROJECT NO.	MODERN PROCESS DRAWN ESR SCALE NTS					
				USED ON UNIT	EQUIPMENT, INC. 3125 S KOLIN AVE, CHICAGO, IL 60623 A/10/23 SHEET NO. 4/10/23 1 OF 1					
				GPX	PH +1(773)254-3929 FX +1(773)254-3935					
				MATERIAL	MODEL GPX DISC STYLE PART NO. REVISION					
REV	CHANGE	DATE	BY		COFFEE GRINDER SPARE PARTS LIST GPX-SP-01					







Zero Adjust Procedure



- 1. After fully assembling grinder, turn grinder on.
- 2. Loosen locking screws
- 3. Rotate the knob to grind setting No. 10.
- 4. With a screwdriver turn adjusting screw clockwise until burrs touch lightly.
- 5. Tighten locking screws.
- For GPX grinders turn knob counterclockwise to grind setting No. 8, For GPC grinders turn knob counterclockwise to grind setting No. 9.
- With a screw driver hold the position of the adjusting screw, then loosen the locking screws.
- 8. While still holding the position of the adjusting screw, turn the knob to grind setting No. 10.
- 9. Tighten locking screw.
- 10. The grinder is now adjusted to the original factory settings.