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**Model GPX.WCI**  
**Precision Disc Style Coffee Grinder with Integrated Water Cooling System**



**Modern Process Equipment, Inc.**  
**Chicago, Illinois**



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## 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.



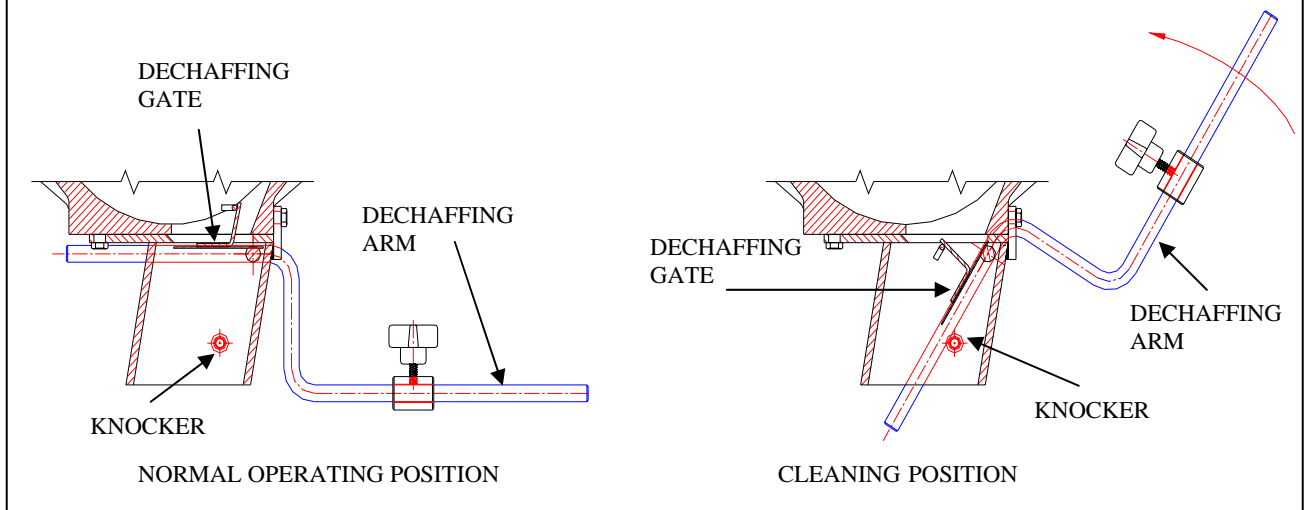
## OPERATION AND MAINTENANCE

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.

### NOTE

**TO REMOVE ANY COFFEE BUILDUP ABOVE DECHAFFING GATE, SWING THE DECHAFFING ARM UPWARD UNTIL IT IMPACTS ON THE "KNOCKER", AS SHOWN IN THE DRAWING BELOW.**

**DO NOT PUSH OR FORCE HANDLE DOWN**



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.**

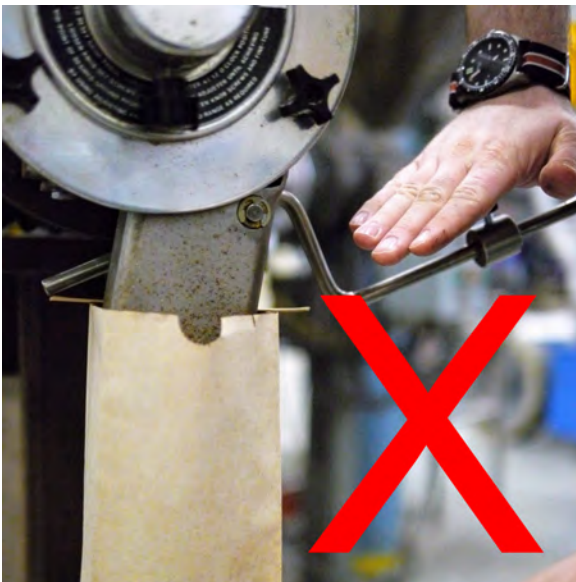
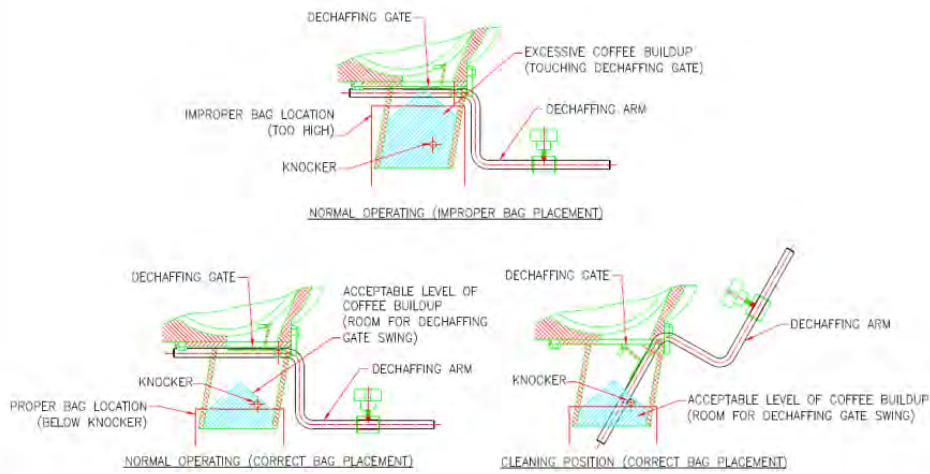


**NOTE**

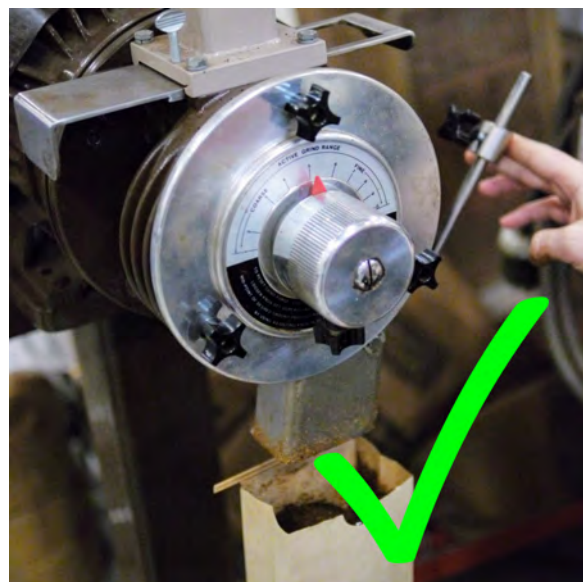
**TO REMOVE ANY COFFEE BUILDUP ABOVE DECHAFFING GATE, SWING THE DECHAFFING ARM UPWARD UNTIL IT IMPACTS ON THE 'KNOCKER', AS SHOWN IN THE DRAWING BELOW.**

**DO NOT PUSH OR FORCE HANDLE DOWN**

**DO NOT PLACE BAG ABOVE THE KNOCKER OR ALLOW COFFEE TO BUILD UP UNDER THE DECHAFFING GATE**



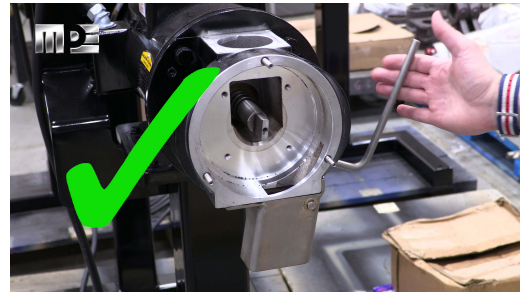
Don't push down on the dechaffing arm as this may damage the dechaffing gate.



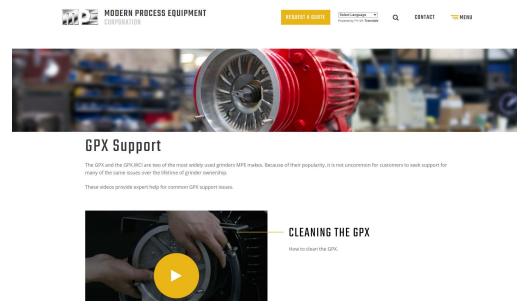
Do lift up the dechaffing arm and lower the coffee bag at the end of grinding. This empties the burr housing.



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.





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### **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.**

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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**

**PRIOOT 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**

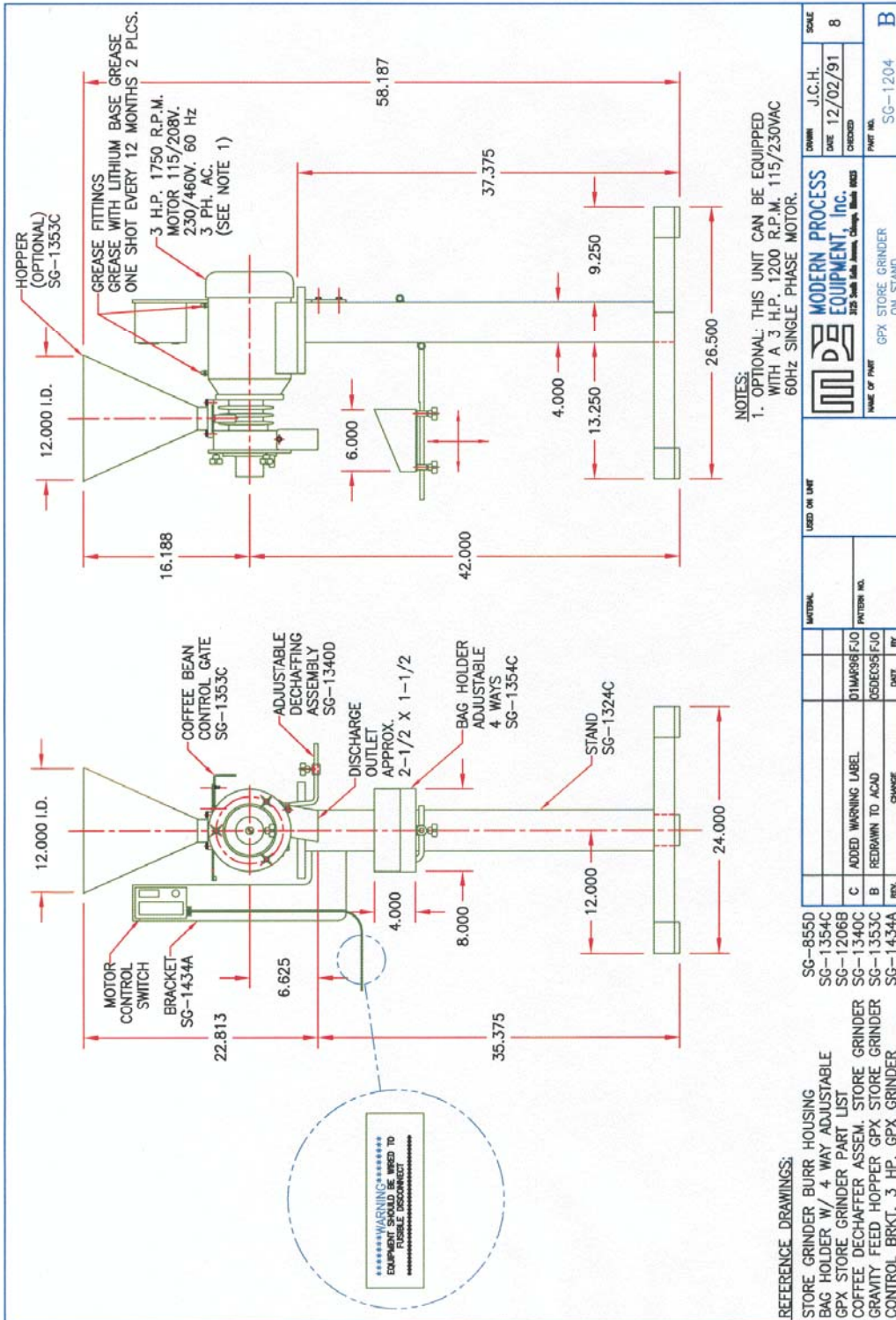
GPX Store Grinder on Stand	SG-1204B
GPX-B Store Grinder Bench Model	SG-1205B
Model GPX Disc Style Grinder Parts List	SG-1206B
Electrical Schematic 230V AC GPX.WC 3PH	EL-7357-1
Electrical Schematic 230V AC GPX.WC Single PH	EL-7357-4
Model GPX Disc Style Coffee Grinder With Parts List	SG-2520C
GPX Store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



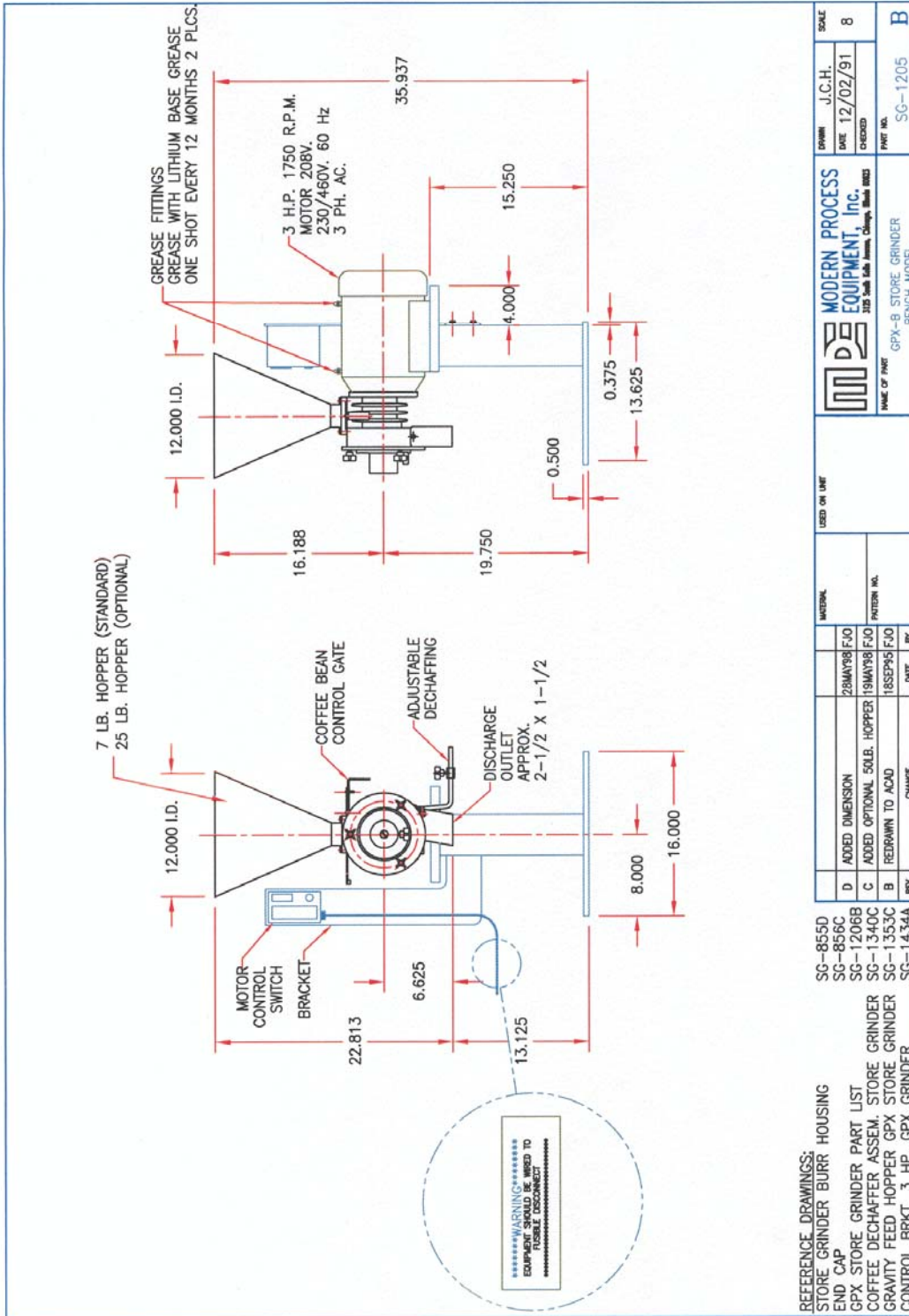
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ITEM	QTY.	PART #	DESCRIPTION
1	1	GPX-1	BURR HOUSING (56C FRAME)
1A	1	GPX-1A	BURR HOUSING (184C FRAME)
2	1	GPX-2	END CAP
3	1	GPX-3	ROTOR
4	1	GPX-4	ROTOR INSERT
4A	4	GPX-4A	SOCKET HEAD SCREW
5	1	GPX-5	SPRING
6	1	GPX-6	ADJUSTING SCREW
7	2	GPX-7	GRINDING BURRS
8	1	GPX-8	MOTOR (SEE CHART BELOW)
9	1	GPX-9	BALL BRG.
10	1	GPX-10	BRONZE ROTOR BUSHING
11	1	GPX-11	1" I.D. X 1-1/8" O.D. X 2-3/4" THRUST WASHER
12	1	GPX-12	1" X 2" X 1/8" THK. DETENT PLATE
13	1	GPX-13	SPRING PLUNGER
14	1	GPX-14	PEDESTAL TYPE SUPPORT
15	1	GPX-15	HOPPER-GRAVITY FEED
16	1	GPX-16	METERING GATE
17	1	GPX-17	BAG HOLDER ASSEM. ADJUST.
18	1	GPX-18	DECHAFFER UNIT
19	1	GPX-19	BURR WEAR SHIM
20	4	GPX-20	4 PRONG PLASTIC KNOBS
21	1	GPX-21	4 PRONG PLASTIC KNOBS
22	1	GPX-22	DIAL INDICATOR KNOB
23	4	GPX-23	1/4-20 X 1-1/2 S.S. STUD
24	1	GPX-24	ALLIGATOR WIRE CLIP (GROUND)
25	4	GPX-25	1/4-20 X 7/16 PAN HEAD

ITEM	QTY.	HP.	R.P.M.	FRAME	VOLTS	PHASE
8	3	1725	184C	230/460	3	
	3	1725	184TC	115/208-230	SINGLE	
				56C		

REFERENCE DRAWINGS:  
ELEVATION VIEW

SG-1204B

MODERN PROCESS EQUIPMENT, Inc.  
132 South Mills Avenue, Chicago, Illinois 60606

NAME OF PART: MODEL GPX DISC STYLE GRINDER PARTS LIST

DATE: 07/06/92

SCALE: 1=1

REV. CHANGE DATE BY

REVISIONS:

REV.	CHANGE	DATE	BY
F	ADDED ITEM NO. 24 & 25	23SEP02	FJO
C	CHD 2-1/2 TO 2-3/4 PER PHENUN98	24OCT95	FJO
D	ADDED ITEM 23 PER P.E.	02MAY00	FJO
E	ADDED ITEM 4A PER H.C.	12APR02	FJO

USED BY UNIT

DATE

BY

DATE

BY

DATE

BY

DATE

BY

# Model GPX.WCI Precision Disc Style Coffee Grinder with Integrated Water Cooling System



MUST BE CONNECTED TO FUSEABLE DISCONNECT

3Ø 220V, 3ØV OR 440V

20' LONG CORD

GREEN

BLACK

WHITE

RED

STOP

RUN

SEE TABLE

T1 T2 T3 T4

MOTOR

HP.	VOLTS	AMPS	STARTER NO.	SO CORD	
				WIRE	LENGTH
5	220	15.2	01-33511-36	12-4	20'-0"
5	380	8-10	01-325-10009	12-4	
5	440	7.6	01-33509-42	14-4	
10	220	28.0	01-33513-36	12-4	
10	440	14.0	01-33511-42	14-4	

5.000

7.000

BOX DEEP 5-5/8

STOP

START

3Ø 220V OR 440V

U1 U2 U3

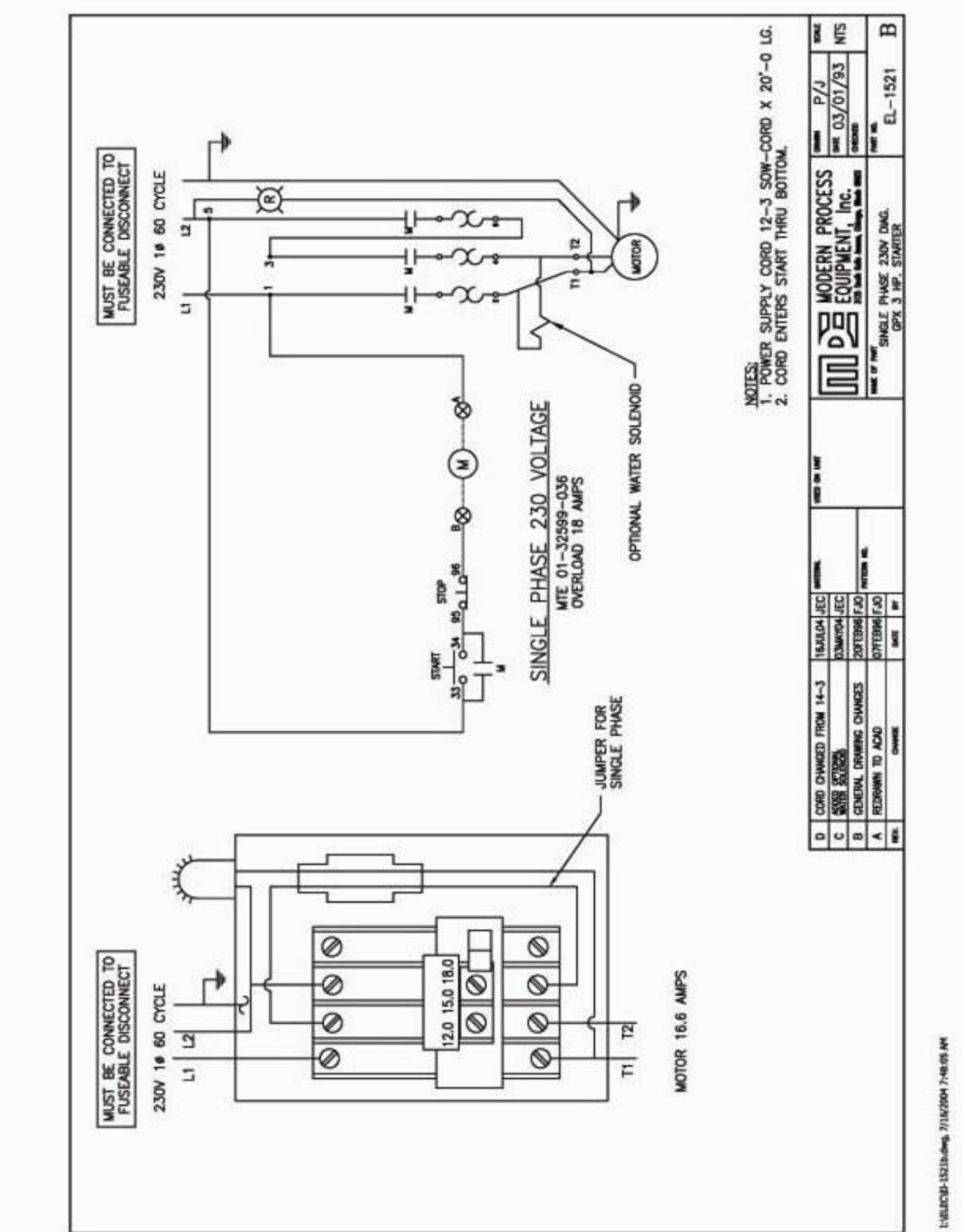
T1 T2 T3 T4

D	ADDED WIRE COLOR PER P.A.	DRAWING NO.	REV. NO.	DATE	BY
C	ADDED 3ØV PER I.L.C.	10/11/03		03/03/03	MES
B	GENERAL WIRE CHANGES	07/28/03			
A	REWORK TO ADD				

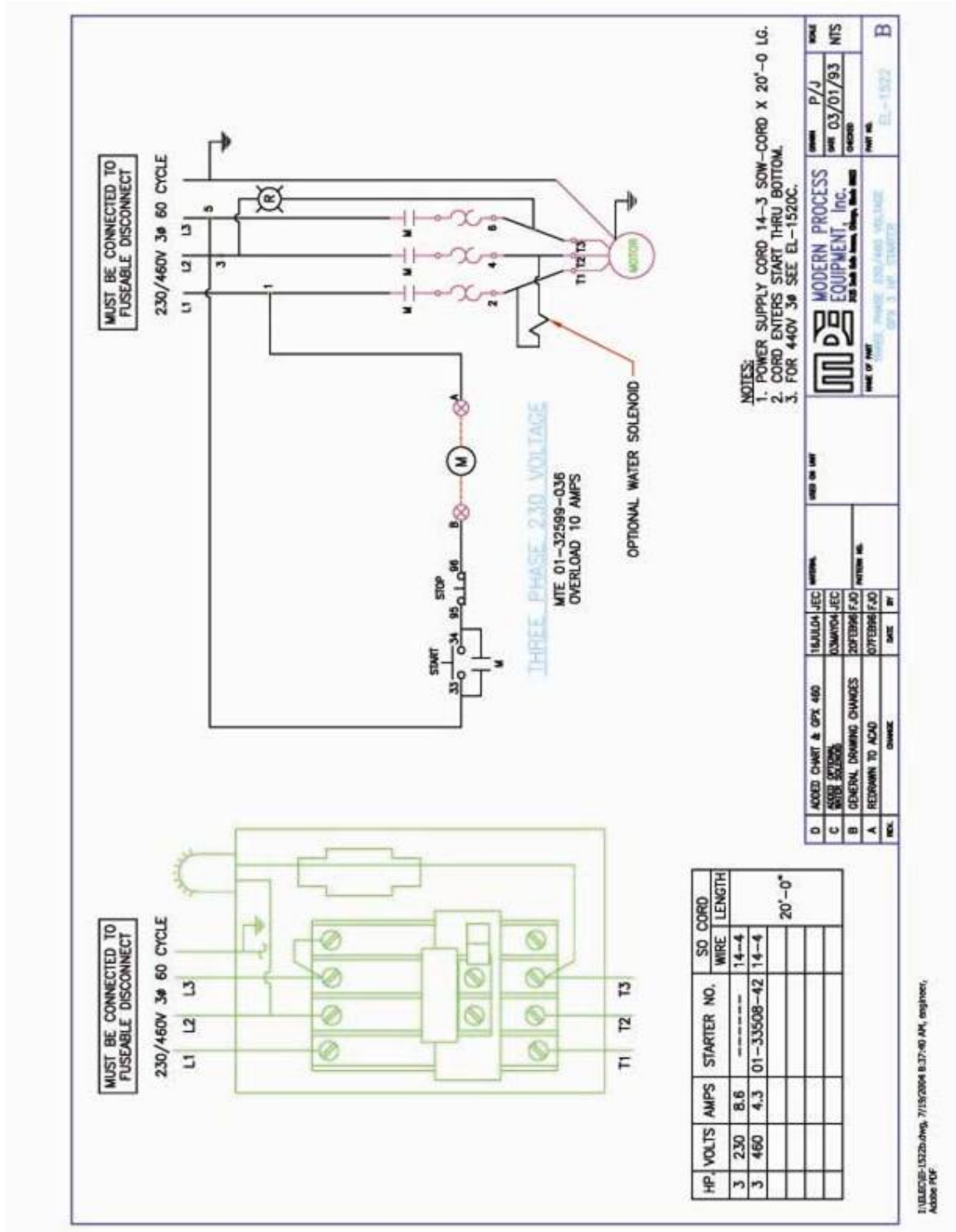
MODERN PROCESS EQUIPMENT, INC.  
 1000 S. 10th St., Suite 100, Phoenix, AZ 85003  
 TEL: 602-998-1100 FAX: 602-998-1101

EL-1530 C

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ITEM	QTY.	PART #	DESCRIPTION	DESCRIPTION	DESCRIPTION	ITEM	QTY.	PART #	DESCRIPTION
35	1	GPX-35	ALLIGATOR WIRE CLIP (GROUND)			1	1	GPX-1	BURR HOUSING (56C FRAME)
			MOTORS			1A	1	GPX-1A	BURR HOUSING (184C FRAME)
						2	1	GPX-2	END CAP
						3	1	GPX-3	ROTOR
						4	1	GPX-4	ROTOR INSERT
						5	1	GPX-5	SPRING
						6	1	GPX-6	ADJUSTING SCREW
						7	2	GPX-7	GRINDING BURRS
						8	1	GPX-8	MOTOR (SEE CHART TO THE LEFT)
						9	1	GPX-9	BALL BRG. SKF 6203 2RS
						10	1	GPX-10	SINTERED BRG.
						11	1	GPX-11	THRUST WASHER
									1" I.D. X 1-1/8" O.D. X 2-1/2"
									1" X 2" X 1/8" THK.
						12	1	GPX-12	DETENT PLATE
						13	1	GPX-13	SPRING PLUNGER SSS-59-N
						14	1	GPX-14	PEDESTAL TYPE SUPPORT
						15	1	GPX-15	HOPPER-GRAVITY FEED
						16	1	GPX-16	METERING GATE
						17	1	GPX-17	BAG HOLDER ASSEM. ADJUST.
						18	1	GPX-18	DECHAFFER UNIT (SPOUT NOT INCL.)
						19	1	GPX-19	BURR WEAR SHIM
						20	4	GPX-20	4 PRONG PLASTIC KNOBS
						21	1	GPX-21	4 PRONG PLASTIC KNOBS
						22	1	GPX-22	DIAL INDICATOR KNOB
						23	1	GPX-23	1/4" - 20 X 1/2" HEX BOLT
						24	1	GPX-24	PLASTIC KNOB 1/4-20 STUD
						25	1	GPX-25	DISCHARGE SPOUT
						26	1	GPX-26	Ø3/8 C.R.R. CTWT ROD
						27	1	GPX-27	Ø3/4 X 13/32 I.D. X 1 CTWT
									GATE
						28	1	GPX-28	RETAINING RING
						29	2	GPX-29	FLANGED BUSHING
						30	2	GPX-30	6-32 X 1/4" PHILLIPS HEAD
						31	2	GPX-31	GATE KNOCKER
						32	1	GPX-32	PIVOT AXLE
						33	1	GPX-33	8-32 X 1/4" SLT. HEAD
						34	1	GPX-34	

REV.	CHANGED	DATE	BY	USED OR UNF	MATERIAL	USED OR UNF
C	ADDED ITEM 35 PER P.E.	26SEP02/FJO				
B	UPDATED ITEM 18 PER B.T.	17AUG02/FJO				
A	ADDED BUBBLE FOR PART No. 18	18DEC97/FJO				

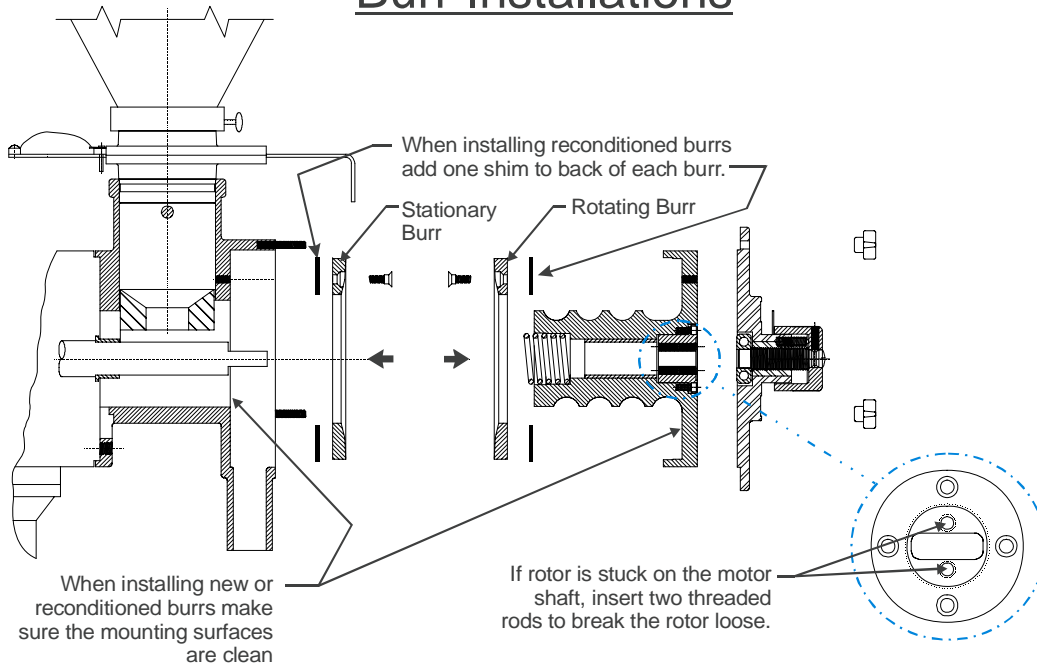
  

 <b>MODERN PROCESS EQUIPMENT, Inc.</b> <small>325 South Falls Avenue, Chicago, Illinois 60608</small>	<b>NAME OF PART</b> MODEL GPX DISC STYLE COFFEE GRINDER WITH PARTS LIST	<b>DATE</b> 12/01/95	<b>SCALE</b> 2
<b>PART NO.</b> SG-2520		<b>CREATED</b>	

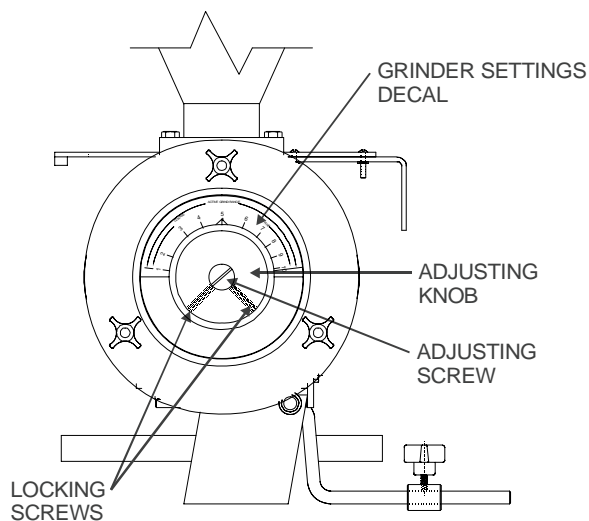




## Burr Installations



## 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.
6. For GPX grinders turn knob counterclockwise to grind setting No. 8, For GPC grinders turn knob counterclockwise to grind setting No. 9.
7. 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.