E-2DHDE-PL-0321



REVISED STARTING SERIAL # 200910237

PARTS LIST MANUAL

MAGNA OTRAP® HEAVY-DUTY FLOOR GRINDER / POLISHER



ELECTRIC MODEL 2DHDE-5B SKU # 58100

READ AND UNDERSTAND THE OPERATOR'S SAFETY MANUAL THOROUGHLY BEFORE ATTEMPTING TO OPERATE THIS EQUIPMENT. Death or serious injury could occur if this machine is used improperly.



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SAFETY MESSAGES

· Safety Instructions are proceeded by a graphic alert symbol of DANGER, WARNING, or CAUTION.



Indicates an imminent hazard which, if not avoided, will result in death or serious injury.

Indicates an imminent hazard which, if not avoided, WARNING can result in death or serious injury.

> Indicates hazards which, if not avoided, could result in serious injury and or damage to the equipment.

GASOLINE / PROPANE POWERED EQUIPMENT

WARNING

CAUTION

• Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



• Tilting a gasoline powered machine fitted with an EPA approved vented charcoal filter gas cap, beyond 20° can cause fuel leakage. If a leak occurs, do not

start or run the engine until the leak is fixed. Eliminate all other ignition sources in the immediate area (no smoking, flares, sparks or flames). Use approved gasoline absorbing material to contain the fuel leakage. Then use clean, non-sparking tools to collect absorbed materials then dispose of these contaminants properly.



· Gasoline is extremely flammable and poisonous. It should only be dispensed in well ventilated areas, and with a cool enaine.

· Small gasoline engines produce high concentrations of carbon monoxide (CO) example: a 5 HP 4 cycle engine operation in an enclosed 100,000 cu. ft. area with only one change of air per hour is capable of providing deadly concentrations of CO in less than fifteen minutes. Five changes of air in the same area will produce noxious fumes in less than 30 minutes. Gasoline powered equipment should not be used in enclosed or partially enclosed areas. Symptoms of CO poisoning include, head-ache, nausea, weakness, dizziness, visual problems and loss of consciousness. If symptoms occur - get into fresh air and seek medical attention immediately.

· Never refuel a hot engine or an engine while it is running.



· Engines are shipped from factory without fuel/oil. · Propane is extremely flammable and is heavier than air and tends to settle in low areas where a spark or flame could ignite gas. DO NOT start or operate this propane engine in

a poorly ventilated area where leaking propane gas could accumulate and endanger safety of persons in area. If headache develops, shut off machine. Have it checked for carbon monoxide emissions by a qualified technician before using it again. To ensure personal safety, installation and repair of propane fuel supply systems must be performed only by qualified technicians. Carbon monoxide emissions from this machine are greatly increased due to a dirty combustion air cleaner.

ELECTRICAL POWERED EQUIPMENT



Extreme care must be taken when operating electric models with water present: Ensure power cord is properly grounded, is attached to a Ground-Fault-Interrupter (GFI) outlet, and is undamaged.

- Check all electrical cables be sure connections are tight and cable is continuous and in good condition. Be sure cable is correctly rated for both the operating current and voltage of this equipment.
- Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with qualified electrician or service person if there is any doubt as to whether the outlet is properly grounded. Adhere to all local codes and ordinances.
- NOTE: In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to dissipate. The motor is equipped with a grounded plug and must be connected to an outlet that is properly installed and properly grounded. DO NOT modify the plug provided on the motor. If the plug does not fit the outlet have a qualified electrician install the proper receptacle.

ELECTRICAL POWERED EQUIPMENT CONTINUED

- Do not disconnect power by pulling cord. To disconnect, grasp the plug, not the cord.
- Unplug power cord at the machine when not in use and before servicing
- Switch motor OFF before disconnecting power.
- Never use frayed, damaged, taped or under rated extension cords Electrical shock could result in death or serious injury to the operator and damage to the equipment.
- Assure you are using the proper extension cord length.

GENERAL INSTRUCTIONS

- · Equipment should only be operated by trained personnel in good physical condition and mental health (not fatigued). The operator and maintenance personnel must be physically able to handle the bulk weight and power of this equipment.
- This is a one person tool. Maintain a safe operating distance to other personnel. It is the operators' responsibility to keep other people (workers, pedestrians, bystanders, etc.) away during operation. Block off the work area in all directions with roping, safety netting, etc.

Failure to do so may result in others being injured by flying debris or exposing them to harmful dust and noise.

- This equipment is intended for commercial use only.
- · For the operator's safety and the safety of others, always keep all guards in place during operation.





Personal Protection Equipment and proper safety attire must be worn when operating this machinery. The operator must wear approved safety equipment appropriate for the job such as hard hat and safety shoes when conditions require. Hearing protection MUST be used when operational noise levels of this equipment may exceed 85db. Eye protection MUST be worn at all times.



Keep body parts, loose clothing and accessories away from moving parts. Failure to do so could result in dismemberment or death.

· Do not modify the machine.

· Stop motor/engine when adjusting or servicing this equipment. Maintain

a safe operating distance from flammable materials. Sparks from the cutting-action of this machine can ignite flammable materials or vapors.

DUST WARNING

WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects, or other

reproductive harm. Materials being removed can be toxic or hazardous. A breathing respirator is required to help protect the operator. Some examples of these chemicals are:

- · Lead from lead-based paints.
- · Crystalline silica from bricks, concrete and other

masonry products. Your risk of exposure to these chemi cals varies depending on how often you do this type of work. To reduce your risk: work in a well ventilated area, use a dust control system, such as an industrialstyle vacuum, and wear approved personal safety equipment, such as a dust/particle respirator designed to filter out microscopic particles.

· See more on the importance of dust prevention and silica warnings at: osha.gov/silica

PARTS LIST MANUAL



HEAVY-DUTY FLOOR GRINDER/POLISHER

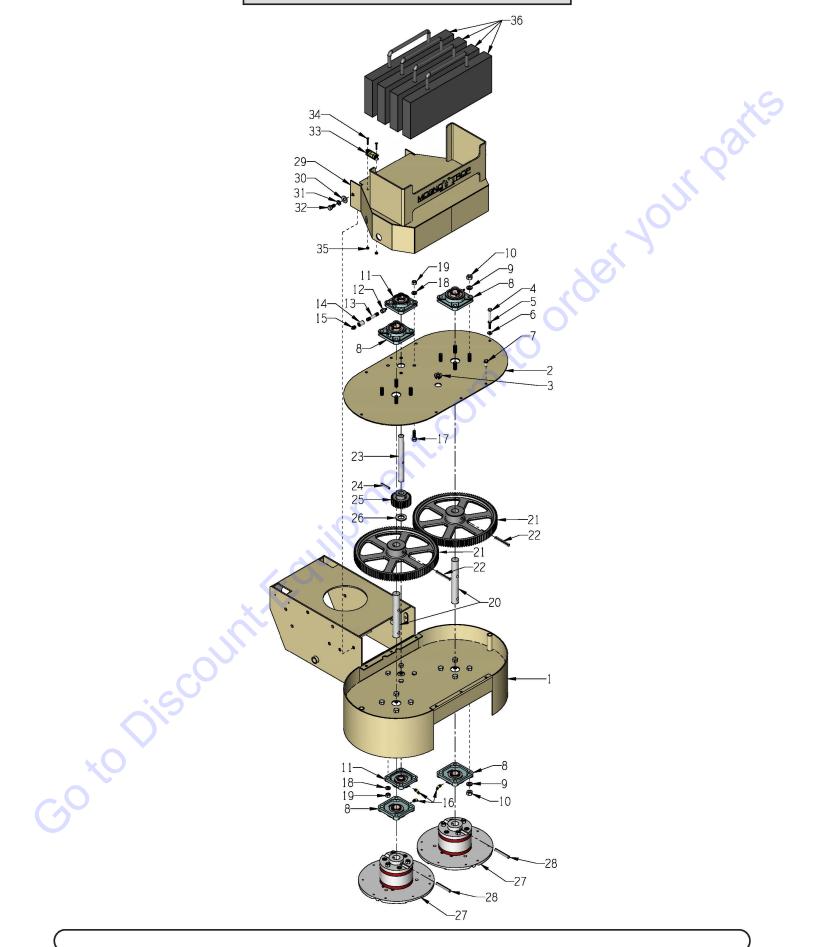
ELECTRIC MODEL

TABLE OF CONTENTS

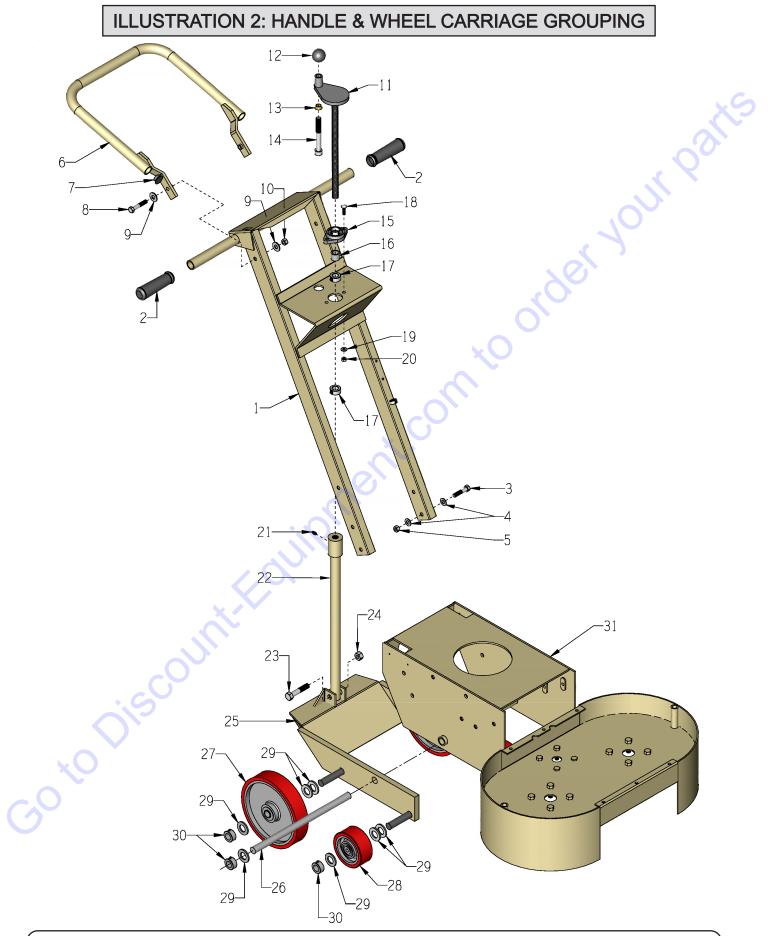
Section Page Number Safety Information 2 Illustration 1: Main Grouping 4, 5 Illustration 3: Skirt, Vaccum Port & Water Hook-Up Grouping 8, 9 Illustration 6: Motor & Belt Drive Grouping for 5 HP 60 Hz Units Wiring Illustration for Switch and Motor Junction Box

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ILLUSTRATION 1: MAIN GROUPING



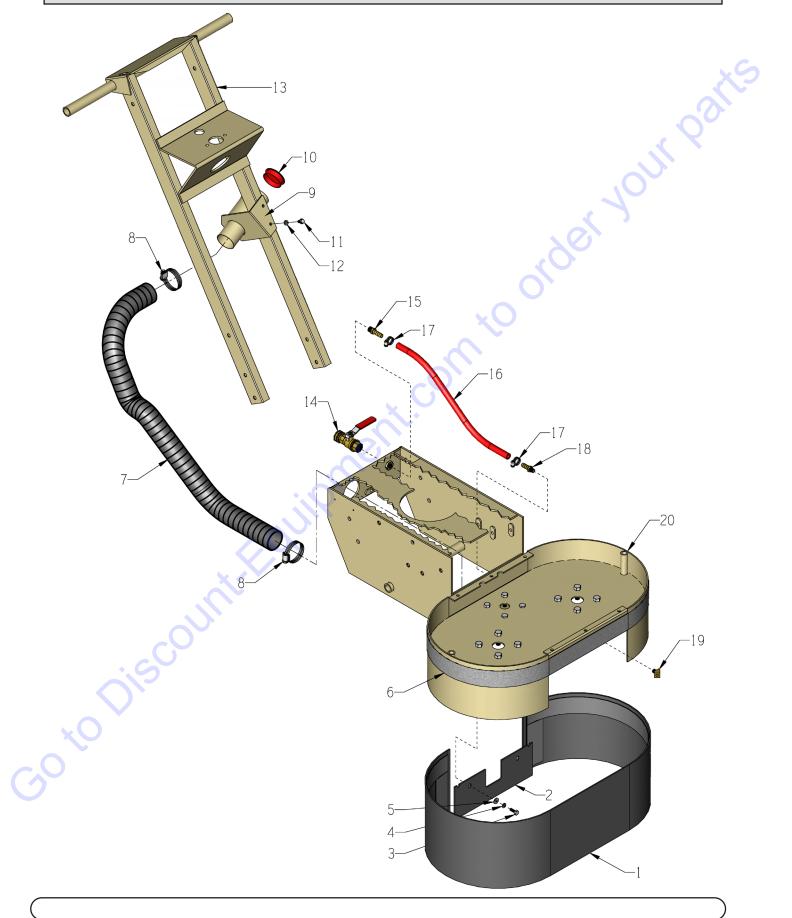
	PAR	TS LISTING - ILLUSTRATION 1: MAIN GROUPING	
ITEM #	PART #	DESCRIPTION	QTY.
1	77501	MAIN FRAME, 2DHD	1
2	77502	COVER, GEAR CASE, 2DHD	1
3	10005	PLUG, HOLE 7/8" BRIGHT ZINC	1
4	10475	SCREW, CAP 1/4-20 X 3-1/4	2
5	10038	WASHER, LOCK 1/4 ZINC	2
6	10602	WASHER, FLAT 1/4 SAE ZINC	2
7	11811	BOLT, FLANGE 1/4-20 X 3/4 ZINC	6
8	77008	BEARING, BALL 1" 4-HOLE FLANGE, ND	4
9	10450	WASHER, LOCK 7/16 ZINC	16
10	10481	NUT, HEX 7/16-20 ZINC	16
11	77009	BEARING, BALL 3/4" 4-HOLE FLANGE 💛	2
12	50541	ADAPTER, GREASE FIT. 1/8PT X 1/4-28	1
13	10699	PIPE NIPPLE 1/8NPT X 2" (BLACK)	1
14	10585	PIPE COUPLING 1/8 NPT (BLACK STEEL)	1
15	10953	FITTING, GREASE 1/8 NPT STRAIGHT	1
16	10960	FITTING, GREASE 1/4-28 X 45°	3
17	10309	SCREW, CAP 3/8-24 X 1-1/4 ZINC	4
18	10811	WASHER, LOCK 3/8 ZINC	8
19	10014	NUT, HEX 3/8-24 ZINC	8
20	77346	SHAFT, LARGE GEAR 1"DIA X 7"L	2
21	77012	GEAR, SPUR 112 TOOTH (DRIVEN)	2
22	63056	PIN, H.D.COILED SPRING 3/8 X 2-1/2	2
23	77011	SHAFT, PINION GEAR 3/4DIA X 7-3/8"L	1
24	10037	PIN, ROLL 1/4 X 1-1/2	1
25	77053	GEAR, SPUR 25 TOOTH (PINION)	1
26	10009	WASHER, FLAT 3/4 SAE ZINC	1
27	101201	MT GRINDING DISC ASSY.	2
	.5	(REFER TO ILLUS. 4 FOR BREAKDOWN)	
28	10007	PIN, ROLL 3/8 X 2-1/2	2
29	77505	HOOD, 2DHDE-5B	1
30	10025	WASHER, FLAT 3/8 SAE ZINC	2
31	10811	WASHER, LOCK 3/8 ZINC	2
32	10907	SCREW, CAP 3/8-16 X 3/4	2
33	77506	WEIGHT BLOCK, 40 LB.	4



PART	S LISTING - IL	LUSTRATION 2: HANDLE & WHEEL CARRIAGE GROUP	PING	
ITEM #	PART #	DESCRIPTION	QTY.	X
1	77507	HANDLE BAR, 2DHDE-5B	1	
2	10608	GRIP, HAND 1" MODEL AT	2	
3	10029	SCREW, CAP 3/8-24 X 1-3/4	4	
4	10025	WASHER, FLAT 3/8 SAE ZINC	8	
5	10004	NUT, HEX LOCK 3/8-24 ZINC	4	
6	77508	HANDLE EXTENSION, 2DHDE/P	1	
7	77528	PLUG, BLACK 1"RD. TUBING 10-14 GA. 🔍 🔿	2	
8	10030	SCREW, CAP 3/8-24 X 2	2	
9	10025	WASHER, FLAT 3/8 SAE ZINC	4	
10	10004	NUT, HEX LOCK 3/8-24 ZINC	2	
11	65019	HANDWHEEL, SMALL W/ 5/8-8 X 13"ROD	1	
12	14023	KNOB, BALL 1-3/8 W/ 1/2-13THD, BLK.	1	
13	50550	SLEEVE, BRASS 1/2" TAPERED	1	
14	10346	SCREW, SKT. HD. CAP 1/2-13 X 4-1/2	1	
15	80009	BEARING, BALL 5/8" 2-HOLE (NO G.F.)	1	
16	55010	SPACER, HANDWHEEL 5/8"ID X 3/4"L	1	
17	10096	COLLAR, LOCKING 5/8"ID	2	
18	10412	BOLT, CARRIAGE 1/4-20 X 1	2	
19	10602	WASHER, FLAT 1/4 SAE ZINC	2	
20	10861	NUT, KEPS LOCK 1/4-20 ZINC	2	
21	10808	FITTING, GREASE 1/4-28 STRAIGHT	1	
22	77511 🔪	LINKAGE, LOWER, 2DHDE-5B	1	
23	10343 🦳	SCREW, CAP 1/2-20 X 2-1/2	1	
24	10154	NUT, HEX NYLON LOCK 1/2-20 ZINC	1	
25	77510	CARRIAGE, WHEEL	1	
26	77537	FORK SHAFT 3/4"DIA. X 13-3/4"L	1	
27	68008	WHEEL 8 X 1-5/8 X 3/4"BRG., POLY	2	
28	77520	WHEEL 4 X 1-1/2 X 3/4"BRG., POLY	2	
29	10009	WASHER, FLAT 3/4 SAE ZINC	14	
30	10428	COLLAR, LOCKING 3/4"ID	6	
31	77501	MAIN FRAME (REFER TO ILLUS. 1)	1	

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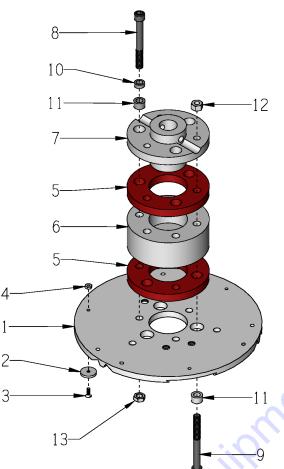
ILLUSTRATION 3: SKIRT, VACUUM PORT & WATER HOOK-UP GROUPING



ITEM #	PART # 77529	DESCRIPTION RUBBER SKIRT 1/8 X 8 X 58 W/VELCRO	QTY 1
2	77504	RUBBER SKIRT, REAR 1/8 X 4 X 11	
3			2
4	10018	SCREW, CAP 1/4-20 X 3/4 WASHER, LOCK 1/4 ZINC	2
5			
5 6	10602	WASHER, FLAT 1/4 SAE ZINC	2
0	77556	VELCRO-HOOK ONLY 2" X 72" (NOTE: 1 PIECE CUT 57-1/4"L & 2 PIECES CUT 4-1/2"L)	1
7	77551	HOSE, FLEX 2"ID X 36"L, 2DHD	1
8	10766	CLAMP, HOSE, SAE #32, ADJ. TO 2-1/2	2
9	86347	BRACKET, MULTI-VAC PORT 2-3"	1
10	65021	CAP/PLUG 2" RED PLASTIC, FLANGED	1
10	10846	SCREW, CAP STSHW 1/4-20 X 5/8	2
12	10040	WASHER, LOCK 1/4 ZINC	2
13	77507	HANDLE BAR, 2DHDE-5B (REFER TO ILLUS. 2)	1
14	10711A	VALVE & HOSE CONNECTOR ASSY.	1
15	50075	BARB, 3/8 HOSE X 1/4MPT (BRASS)	
16	77521	HOSE 3/8"ID X 18"L, 2DHD & 2DP	1
17	10714	CLAMP, HOSE, SAE #4, ADJ. TO 5/8"	2
18	10694	BARB, 3/8HOSE X 1/8MPT	1
		ELBOW, STREET 1/8NPT X 45 (BRASS)	1
20	77501	MAIN FRAME, 2DHD (REFER TO ILLUS. 1)	1
,0 ⁰	10772 77501		

ILLUSTRATION 4: STANDARD GRINDING DISC ASSEMBLY

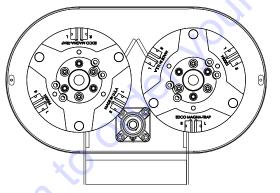




DISC ARRANGEMENT

K.S.

INSTALL DISC IN OPPOSITE DIRECTIONS SO THEY PASS EACH OTHER AT THE CENTER IN ALTERNATING SEQUENCE.

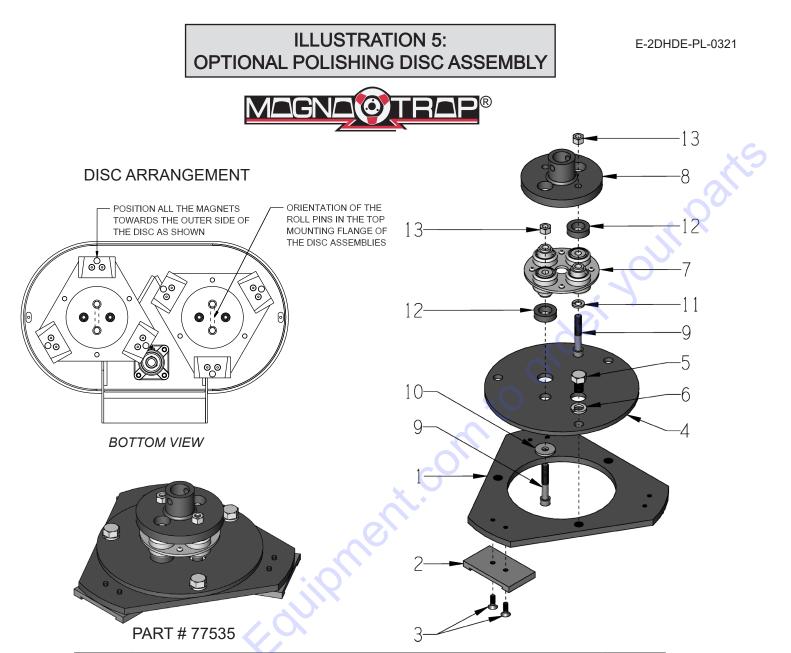


BOTTOM VIEW



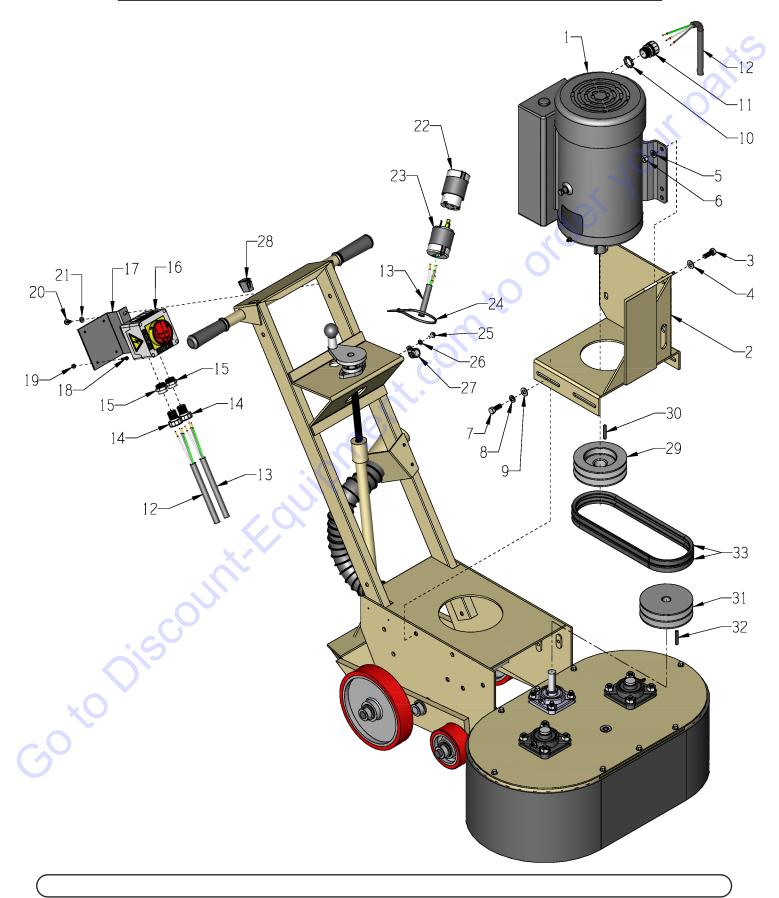
PART # 101201

ITEM #	PART #	DESCRIPTION	QTY.*
1-13	101201 🔪	MT GRINDING DISC ASSEMBLY	1
1	100054	10" UNIVERSAL MAGNA-TRAP DISC (INCLUDES MAGNETS)	1
2	36064	MAGNET, NEODYMIUM RING 7/8 X 1/8 (BOLT ON REPLACEMENT)	3
3	10647	SCREW, FLAT HD PHILLIPS 8-32 X 1/2	3
4	10462	NUT, KEPS LOCK 8-32 ZINC	3
5	100055	RING, RUBBER, 4-1/2"OD X 1/2"THK	2
6	100985	HUB SPACER, MAGNA-TRAP DISC, 2DHD	1
7	100057	HUB, GRINDER DISC	1
8	11855	SCREW, SKT. HD. CAP 3/8-24 X 3-1/4	3
9	11856	SCREW, SKT. HD. CAP 3/8-24 X 3-1/2	3
10	10113	SPACER, STEEL 9/16OD X 3/8ID X 7/32	3
11	10011	SPACER, STEEL 5/8OD X 3/8ID X 3/8T	6
12	10004	NUT, HEX LOCK 3/8-24 LOCK (USE RED LOCTITE)	3
13	11725	NUT, HEX JAM 3/8-24 ZINC (USE RED LOCTITE)	3
	*NOTE: QUAN	TITIES ARE BASED ON 1 DISC. 2 DISC ARE REQUIRED.	



ITEM #	PART #	DESCRIPTION	QTY.*
1-13	77535	MT POLISHING DISC ASSEMBLY	1
1	75175	DISC ONLY, POLISHING, 2DHD	1
2	QC-HOLDER-EDCO	HOLDER, MAGNETIC QUICK CHANGE	3
3	10147	SCREW, FLAT HD SKT 1/4-20 X 3/4	6
4	L18567	DISC TOP PLATE, POLISHING	1
5	11614	SCREW, CAP 1/2-20 X 3/4	3
6	10045	WASHER, LOCK 1/2 ZINC	3
7	86017	COUPLING, MORFLEX 402 CENTER	1
8	77518	FLANGE, MORFLEX COUPLING	1
9	10114	SCREW, SKT. HD. CAP 3/8-24 X 2-1/4	4
10	11695	WASHER, 1.100 X .406 X .120	2
11	10811	WASHER, LOCK 3/8 ZINC	2
12	86343	BUSHING, RUBBER 1-1/4 X 3/4 X 3/8	4
13	10004	NUT, HEX LOCK 3/8-24 ZINC	4
	*NOTE: QUANTITI	ES ARE BASED ON 1 DISC. 2 DISC ARE REQUIRED.	

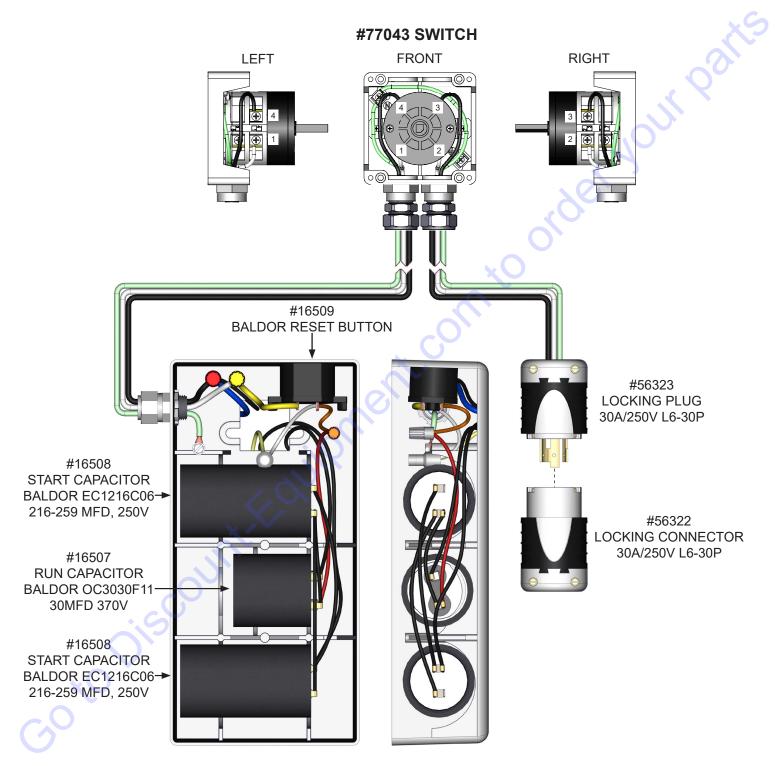




PA	RTS LISTING -	ILLUSTRATION 6: MOTOR GROUPING FOR 5 HP 60 Hz UNIT	S
ITEM #	PART #	DESCRIPTION	QTY.
1	16043	MOTOR, BALDOR 5HP 1PH 60HZ 1725RPM	1
	16507	<u>REPLACEMENT PARTS:</u>	1
	16508	CAPACITOR, RUN, BALDOR OC3030F11 (30MFD 370V)	1 2
		CAPACITOR, START, BALDOR EC1216C06 (216-259 MFD, 250V)	
	16509	RESET BUTTON, BALDOR TPLED1027	
2	77512	MOUNT, MOTOR, 2DHDE-5B	
3	10021	SCREW, CAP 3/8-24 X 1	4
4	10025	WASHER, FLAT 3/8 SAE ZINC	4
5	10811	WASHER, LOCK 3/8 ZINC	4
6	10014	NUT, HEX 3/8-24 ZINC	4
7	10055	SCREW, CAP 3/8-16 X 1	4
8	10811	WASHER, LOCK 3/8 ZINC	4
9	10025	WASHER, FLAT 3/8 SAE ZINC	4
10	10790	CONDUIT LOCK NUT 1/2 NP (LOCATED INSIDE BOX)	1
11	41130	STRAIN RELIEF 1/2NPT X .550650"	1
12	77522	WIRE HARNESS 10/3 X 44"L 300V	1
13	77523	WIRE HARNESS 10/3 X 53"L 300V	1
14	40066	STRAIN RELIEF 1/2NPT X .350450"	2
15	77043-1	SWITCH ADAPTER, PG16 TO 1/2"NPT	2
16	77043	SWITCH, ROTARY CAM ON/OFF REPLACEMENT PARTS:	1
	77043-2	SWITCH HANDLE, PADLOCKABLE, LOVATO	1
	77043-4	GASKET RING, OPERATOR, LOVATO	1
17	77042	BRACKET, ROTARY CAM SWITCH	1
18	11663	SCREW, MACHINE 8-32 X 1/2 RHCD ZINC (LOCATED INSIDE SWITCH BOX)	4
19	10462	NUT, KEPS LOCK 8-32 ZINC	4
20	10846	SCREW, CAP STSHW 1/4-20 X 5/8	2
21	10038	WASHER, LOCK 1/4 ZINC	2
22	56322	CONNECTOR, LOCKING 30A/250V L6-30C	1
23	56323	PLUG, LOCKING 30A/250V L6-30P	1
24	10982	TIE, CABLE, BLACK NYLON 11-1/4"	4
25	10846	SCREW, CAP STSHW 1/4-20 X 5/8	2
26	10038	WASHER, LOCK 1/4 ZINC	2
27	11565	CLAMP, LOOM, 5/8" (SAE SIZE 10)	2
28	15204	PLUG, RECT. HOLE, PLASTIC SNAP-IN	1
29	77341	SHEAVE 5"OD X 2GR.B X 1-1/8"BORE	1
30	10115	KEY 1/4SQ X 2	1
31	77058	SHEAVE 5"OD X 2GR.B X 3/4"BORE	1
32	10016	KEY 3/16SQ X 1-1/2	1
33	10251	BELT B-34	2

3

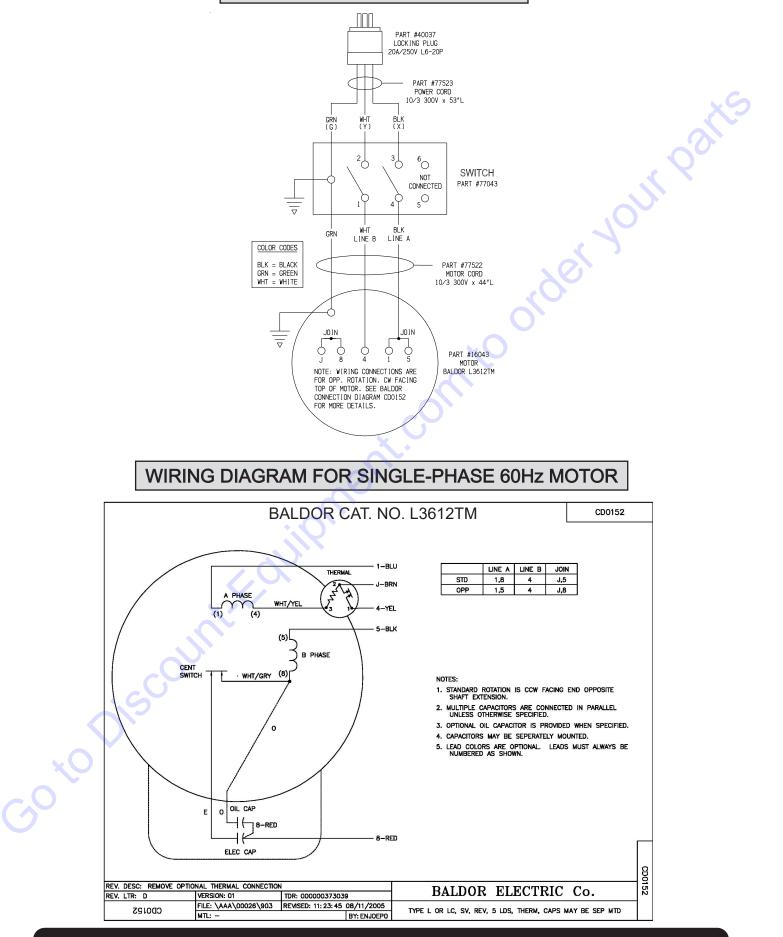
WIRING ILLUSTRATION FOR SWITCH AND MOTOR JUNCTION BOX



MOTOR JUNCTION BOX DETAIL

WIRING DIAGRAM FOR SWITCH

E-2DHDE-PL-0321



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