



# Multiquip Flat Rate Guide

- This Flat Rate Guide is intended to be used to provide the user time guidelines for the performance of typical repairs.
- The times indicated are specific to the task described. The removal and replacement of the component being repaired is included in the repair times where noted.
- This Flat Rate Guide assumes average diagnostic ability. This manual does not allow for the time it may take the Service Technician to educate themselves in the repair of the component or unit being repaired.
- Times indicated are average, and indicate the median times to perform the indicated task.
- Flat Rate times are indicated in tenths of hour or six minute increments.
- Flat Rate times does not include unit clean up time.
- Flat Rate times does include cleanup time of the part/parts for the specific task indicated.
- The Flat Rate times indicated will be used for the reimbursement of Warranty Repairs.
- Unusual circumstances relative to a specific repair, noted in the Flat Rate Guide, must be explained when labor other than those indicated are requested.
- Authorization for labor, in excess of the stated flat rates are at the discretion of the Multiquip Warranty Department.



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## Flate Rate Operation Codes

Code	Description	Category Includes
1xxx's	Engines components	R & R Engine
2xxx's	Main Frame components	pipe frames, base, mounts, exciter assy, etc.
3xxx's	Hydraulic components	pumps, coupler, steering valves, drive motor, vibrator, hoses, etc.
4xxx's	Electrical components	motor, wires, switch, battery, switch, board, stator and etc.
5xxx's	Mechanical components	levers, mechanical seals, belt guard, rebuild carburetor, paddle shafts, trowel arms
6xxx's	Engine Speed Controls components	throttle cable, lever
7xxx's	Power Transmission components	clutch, vbelts, transmission assembly, drive pulley, pinion gears
8xxx's	Accessories	Accessory items, add-ons, trowel blades
9xxx's	Miscellaneous	pressure tests, replace tires, core bits, adjust trowel arms, wears to fast diamond blades

OPC	BUGGIES	Models		
		WBH-16 WBH-16E WBH-16EF WBH-16F WBH16FSB WBH-16FSB WHB-16F WBH21EF WBH21EFP	WBH-16AWD WBH-16AWDE WBH-16EAWD WBH-16EAWDF	FOAMFILLED STDTIRES
1010	Engine R&R Honda (Gasoline)	1	1	
1021	Rebuil Gas engine (includes R&R)	2.5	2.5	
1150	R&R Fuel tank (for clean out)	0.6	0.6	
1130	R&R Fuel filter	0.2	0.2	
6000	R&R Throttle Cable Complete	0.2	0.2	
7170	R&R Drive coupler (engine to pump)	0.4	0.4	
3450	R&R Hydraulic dump cylinder	0.2	0.2	
3460	R&R Hydraulic dump valve	0.3	0.3	
3470	R&R Hydraulic control valve	0.3	0.3	
3000	R&R Hydraulic Pump	1	1	
4110	R&R Battery	0.2	0.2	
1030	R&R Starter (electric)	0.3	0.3	
1070	R&R Recoil Starter	0.2	0.2	
1230	Tune Up	0.4	0.4	
2170	Replace tub	1.1	1.1	
2180	R&R Emergency brake cable	0.2	0.2	
3480	Adjust Dump valve lever	0.1	0.1	
2190	Replace tires	0.2	0.2	
3350	R&R Hydraulic tank (for clean out)	0.5	0.5	
8000	Accessory	0.1	0.1	0.1
9000	Miscellaneous	0.1	0.1	0.1

		Models		
<b>OPC</b>	<b>CORE DRILLS</b>	CDM1H CDM20M CDM20MVC CDM2CSA CDM3CP CDM3CS CDM3CSA CDM3SP CDMMM20 CDMVP	DM15A9C DM4094 DM4096 DR1017	<b>CORE BITS and Adapters.</b>
4190	R&R Electric motor	0.5	0.5	
4210	R&R Stator	0.1	0.1	
4220	R&R Rotor	0.3	0.3	
4310	R&R Brushes / Brush Holder	0.4	0.4	
5950	R&R Shear pin	0.2	0.2	
8000	Accessory	0.1	0.1	0.2
9000	Miscellaneous	0.1	0.1	0.4
9020	Lost segment			0.1
9030	Wears to fast			0.1
9040	Blade does not cut			0.1
9050	Out of round/not flat			0.1
9200	R&R Core bit	0.1	0.1	

		<b>Models</b>
<b>OPC</b>	<b>CONCRETE PUMPS- LS-SERIES</b>	<b>LS400 LS400WR LS500 LS500WR LS600P LS600PWR</b>
1410	Replace engine cover / front panel or fenders	0.5
2410	Replace flexable grease lines	0.5
3000	R&R Hydraulic Pump	1
3271	Replace Material cylinder piston cups	3
3370	Replace Hydraulic Pump	1
3390	Change Hydraulic Oil	0.5
3400	R&R Accumulator (bladder)	0.5
3420	R&R Hydraulic heat exchanger	1
3440	R&R Hydraulic Remix Valve (avg.)	0.5
3471	R&R Hydraulic flow control manifold	1
4682	Replace/adjust proximity switch	0.5
6051	Install remote diesel LS 30-60	1
6052	Install remote diesel LS 300-600	0.2
4800	R&R Control Panel	1.5
5570	Replace remix shaft seals	2.5
5610	R&R and rebuild Concrete cylinder	7
5620	R&R shuttle cylinder	1
5630	Replace main manifold accumulator relief cartridge or 12 coil coil	0.5
5640	R&R Pumping Cylinder	7
5670	Replace Nun plate bronze bushings, Nun plate Assembly	5
5720	R&R and rebuild compensator Assembly	0.7
5770	R&R Swing axel	2
6030	R&R throttle cylinder	0.2
7010	Replace "V" Belt	1
8000	Accessory	0.1
8010	R&R Wheel bearings (per side)	0.3
8020	Replace brake lining (per side)	0.5
8030	Replace light harness	0.3
8040	Replace brake actuator	0.5
8070	Replace Torsion bar axle Assembly	2
9000	Miscellaneous	0.1
9100	Replace tires	0.5

		<b>Models</b>
<b>OPC</b>	<b>CONCRETE PUMPS- C30'S AND MAYCO ACCESORIES</b>	<b>C30HDG C30HDGWR</b>
1001	Diagnose/Repair Zenith engine EFI fuel system	1.5
1300	R&R Fuel Pump	0.2
5631	Replace T-Manifold new 1,2,3 ball valve kit	2
5641	Replace Material cylinder	2
5650	Rebush/reseal/rebuild crank/connecting rod/trans. Assembly	6
5660	Rebush/reseal/replace ball valve Assembly	2
5680	Rebush/reseal/rebuild Rocker Arm Assembly	4
5700	R&R Cam Roller	0.5
5710	R&R Drive Chain	1.5
5721	R&R and rebuild compressor Assembly	2
5750	Rebuild Ball Valve Assembly Complete	2
6040	R&R Throttle Solenoid (Gas)	0.5
6050	Install Remote Control (Diesel)	1
6060	Install Remote Control (Gas)	1
7000	Rebuild Clutch (includes R&R)	1.5
7010	Replace "V" Belt	0.5
7045	Replace sprocket, pulley, pillow block	1.5
8000	Accessory	0.1
8010	R&R Wheel bearings (per side)	0.4
8030	Replace electrical harness	0.3
8040	Replace brake actuator	0.5
9000	Miscellaneous	0.1
9100	Replace tires	0.5

OPC	CONCRETE VIBRATORS- MIKASA	Models				
		MGX-SERIES	FXA-SERIES	CV1A CV2A CV2B CV3A CV3B G55H	FS-SERIES FSN-SERIES	VIBRATOR HEADS AND ACCESORIES
1010	R&R Engine	0.5		0.5		
1020	Rebuild Engine	1.5		1.5		
1070	R&R Recoil Starter	0.2		0.2		
1230	Tune Up	0.5		0.5		
2140	R&R On/Off Switch			0.2		
4210	R&R Stator	0.2	1.5	0.2		
4220	R&R Rotor	0.1	1.6	0.1		
4230	R&R POWER (Cord from switch box)		0.4			
4240	R&R On/Off Switch	0.5	0.3	0.5		
4250	R&R On/Off Switch (Micon & Hi-Cycle)		0.4			
5060	R&R Vibrator Bearings (includes R&R)				0.5	0.5
5480	Lube Flexshaft Core				0.4	
5490	R&R Flex Shaft/Handling hose				0.3	
5500	R&R Head		0.4			0.2
5510	R&R Vibrator Head (Flex Shaft/Micon/Hi-Cycle)		2.2			
5530	R&R Head Bearings		1			
8000	Accessory	0.1	0.1	0.1		
9000	Miscellaneous	0.1	0.1	0.1	0.1	0.1



OPC	CONCRETE VIBRATORS- MICON	Models			
		VC-1A VC-2B	VH-32A-4M VH-42A-4M VH-52A-4M VH-32A-6M VH-42A-6M VH-52A-6M	VHKIT10FT VHKIT20FT	VHEC100
1010	R&R Engine	0.5			
1020	Rebuild Engine	1.5			
1070	R&R Recoil Starter	0.2			
1230	Tune Up	0.5			
2140	R&R Pipe Frame	0.2			
4210	R&R Stator	0.2	1.7	1.7	
4220	R&R Rotor	0.1	1.7	1.7	
4230	R&R Power (Cord from switch box)			0.3	
4240	R&R On/Off Switch	0.5	0.4	0.4	
4250	R&R On/Off Switch Micon & Hicycle		0.2	0.2	
5500	R&R Head		0.5	0.5	
5510	Rebuild Vibretor Head Micon & Hi Cycle		2.3	2.3	
5530	R&R Head Bearings		0.4	0.4	
8000	Accessory	0.1			0.1
9000	Miscellaneous	0.1			0.1

		<b>Models</b>	
<b>OPC</b>	<b>DIFFUSED LIGHTING SOLUTIONS - GLOBUGS</b>	GB3LED GB3LEDC GB8LED GBC8LED GB12BW GBW GBC GB2000 GB4000 GB43ESC GB43LED	<b>CART, STANDS, POLES</b>
2210	R&R Mast Cable	0.5	0.5
4350	R&R Circuit Breaker (each)	0.4	0.4
4530	R&R Ballast	0.2	0.2
4540	R&R Power cable to lamps	0.5	0.5
4560	R&R Lamps	0.2	0.2
8000	Accessory	0.1	0.1
8010	R&R Wheel bearings (inner/outer side)	0.2	0.2
9000	Miscellaneous	0.1	0.1

		<b>Models</b>
<b>OPC</b>	<b>LIGHT TOWERS - MODULAR LIGHT TOWERS</b>	<b>MLT MLTCAM MLTDA72 MLTSDW7</b>
1000	R&R Engine Diesel	2
1030	R&R Starter (electric)	0.3
1250	R&R Radiator	0.6
1260	R&R Injector	0.3
1290	R&R Fan belts	0.4
2210	R&R Mast Cable	1.5
4050	R&R Alternator	0.5
4150	R&R Voltage Regulator	0.5
4310	R&R Brushes	0.5
4350	R&R Circuit breaker (CB1,CB2)	0.6
4360	R&R Receptacle (Each) GFCI	0.2
4520	R&R Generator Assembly	1.5
4530	R&R Ballast	0.6
4540	R&R Power cable to lamps	0.5
4560	R&R Lamps	0.2
4570	R&R Rectifier Assembly	1
4580	R&R Capacitor	0.4
8000	Accessory	0.1
8010	R&R Wheel bearings (inner/outer side)	0.2
9000	Miscellaneous	0.1

		<b>Models</b>			
<b>MIXERS - CONCRETE</b>		<b>MIX N GO MIXERS</b>	<b>MC44's</b>	<b>MC64's</b>	<b>MC94's MC12PH</b>
<b>OPC</b>					
1002	R&R Gasoline Engine			0.4	0.4
1010	Engine R&R Honda (Gasoline)	0.4	0.5	0.5	0.5
4190	R&R Electric Motor	0.2	0.2	0.2	0.2
5100	R&R Drum	0.3			
5582	R&R Drum Wiper Blades				0.5
5584	R&R Drum				2
7010	Replace "V" Belt	0.3			0.4
7400	R&R Ring Gear		0.5	0.5	0.5
7401	R&R Pinion Gear		0.3	0.3	0.2
8000	Accessory	0.1	0.1	0.1	0.1
9000	Miscellaneous	0.1	0.1	0.1	0.1
9100	Replace tires		0.2	0.2	0.2

		Models			
		EM70's	EM90'S	EM120'S	EBC1 EBC1C ELC1 ELC1C ELC3 EPC1 HBC1 HBC1C HBC2 HLC1 HLC1C HPC1 SPRING700 SPRING900
<b>OPC</b>	<b>MIXERS - PLASTER/ MORTAR</b>				
1000	R&R Engine Diesel	0.5	0.5	0.5	
1002	R&R Gasoline Engine	0.4	0.4	0.2	
1010	Engine R&R Honda (Gasoline)	0.5	0.5	0.5	
3000	R&R Hydraulic Pump			0.5	
3060	R&R Hyd. Motor			0.5	
3080	R&R Hydraulic Hoses			0.3	
3160	R&R Hydraulic Valve			0.5	
4190	R&R Electric Motor	0.2	0.2	0.5	
5581	R&R Paddle Shaft	2.2	2.2	2.2	
5582	R&R Drum Wiper Blades	0.5	0.5	0.5	
5584	R&R Drum	2	2	2	
7010	Replace "V" Belt	0.4	0.4	0.4	
7160	Rebuild Gear Box	0.2	0.2	0.3	
7180	R&R Gear Box	0.4	0.4	0.3	
7400	R&R Ring Gear	0.5	0.5		
7401	R&R Pinion Gear	0.2	0.2	0.2	
8000	Accessory	0.1	0.1	0.1	0.1
9000	Miscellaneous	0.1		0.1	
9100	Replace tires	0.2	0.2		0.1

		Models
<b>OPC</b>	<b>MQ POWER - DCA GENERATORS</b>	<b>DCA Series</b>
1000	R&R Engine Diesel	2.5
1150	Clean Fuel Tank (includes R&R)	1
1155	Clean DEF Tank (includes R&R)	0.5
1190	Check & Adjust Engine RPM Diesel	0.2
1251	R&R senders each	0.3
1260	R&R Fuel injector	0.4
1261	R&R Injector Pump	2
1280	R&R Radiator	4
1281	R&R Housing	4
1412	Emissions repairs	0.1
4150	R&R Voltage Regulator	0.5
4175	R&R Wiring Harness (Resistor Load Bank	1
4178	R&R Resistor Load Bank	1
4210	R&R Stator	1
4220	R&R Rotor	1
4350	R&R Circuit Breaker (each)	0.4
4360	R&R Receptacle (each) GFCI	0.4
4370	R&R Voltmeter	0.5
4901	R&R Controler	1.5
4902	R&R Mag pick up	0.5
4903	Program Controler	0.5
4904	R&R Exciter/Startor	1
4905	Repair ATS	0.1
4906	R&R electronic Governor	1.5
4907	R&R Engine Actuator	1.5
4908	R&R Electric Fan	1.3
4909	R&R CTs	0.4
4910	R&R OCR	0.5
4911	R&R Selector Switch	4
4912	R&R gages	0.3
5800	R&R Rotor Carrier Bearing End Bracket	1
5810	R&R End Bearing	1
8000	Accessory	0.1
9000	Miscellaneous	1
9201	Travel Time	0.1
9202	Troubleshooting	1

		<b>Models</b>
<b>OPC</b>	<b>MQ POWER-STUDIO GENERATORS</b>	SG1400C3 SG1500C3 SG1600C3 SG1600C3 SG1600C4
1000	R&R Engine Diesel	8
1150	Clean Fuel Tank (includes R&R)	3
1190	Check & Adjust Engine RPM Diesel	0.5
1251	R&R senders each	0.3
1260	R&R Fuel injector	0.4
1280	R&R Radiator	5
1281	R&R Housing	5
1412	Emissions repairs	0.1
3000	R&R Hydraulic Pump	2.5
3001	R&R vent door actuator each	1
4150	R&R Voltage Regulator	0.5
4210	R&R Stator	1
4220	R&R Rotor	1
4350	R&R Circuit Breaker (each)	1.6
4360	R&R Receptacle (Each) GFCI	0.4
4370	R&R Voltmeter	0.5
4371	R&R Amp meter	0.3
4372	R&R Murphy power view	0.3
4373	R&R selector switch	4
4913	R&R Cam lock each	0.4
4901	R&R Controler	1.5
4902	R&R Mag pick up	0.5
4903	Program Controler	0.5
4904	R&R Exciter/Startor	1
4909	R&R CTs	0.5
4910	R&R OCR	0.5
4912	R&R gages	0.3
5800	R&R Rotor Carrier Bearing End Bracket	1
5810	R&R End Bearing	1
8000	Accessory	0.1
9000	Miscellaneous	1
9201	Travel Time	0.1
9202	Troubleshooting	1

OPC	GENERATORS- GA'S,GDP AND DA-SERIES	Models		
		GA25HR GA36HR GA6HR GA6HRS GA97HEA	GDP5H	DA7000SSA2 DA7000SSA2GH
1000	R&R Engine Diesel			2.5
1010	Engine R&R Honda (Gasoline)	1.5	1.5	
1140	Check & Adjust Engine RPM Gas	0.2	0.2	0.2
1170	Engine Rebuild Diesel			6
1150	Clean Fuel Tank (includes R&R)	1	0.3	1
1171	Engine Rebuild Gasoline	3		
1190	Check & Adjust Engine RPM Diesel			0.2
1260	R&R Fuel Injector			0.4
2140	R&R Pipe Frame	0.6	0.6	
2200	R&R Base	0.4	0.4	0.4
4150	R&R Voltage Regulator	0.5		0.5
4210	R&R Stator	1.6	1.4	1.6
4220	R&R Rotor	1.8	1.8	1.8
4300	R&R Sliprings	1	1	1
4340	R&R Slowdown	0.5	0.5	0.5
4350	R&R Circuit Breaker (each)	0.4	0.4	0.4
4360	R&R Receptacle (each) GFCI	0.4	0.4	0.4
4370	R&R Voltmeter	0.4	0.4	0.4
5040	R&R Shockmount	0.3	0.3	0.3
5800	R&R Rotor Carrier Bearing End Bracket	1	0.9	1
5810	R&R End Bearing	1	0.9	1
8000	Accessory	0.1	0.1	0.1
9000	Miscellaneous	0.1	0.1	0.1



OPC	PLATE COMPACTORS- ONE-WAY	Models				
		MVC64H MVC64HW MVC64VH MVC64VHW	MVC82VH MVC82VHW	MVC88GH MVC88GHW MVC88GHWC MVC88VGH MVC88VGHW MVC88VTH MVC88VTHW	MVC90H MVC90HC MVC90HCE	UPA88T WHL64 WHL82 WHL88TC WHL88T
1010	Engine R&R Honda (Gasoline)	0.5	0.5	0.5	0.5	
1021	Rebuild Engine Honda (includes R&R)	2.5	2.5	2.5	2.5	
1140	Check & Adjust Engine RPM Gas	0.2	0.2	0.2	0.2	
1180	R&R Fuel Tank	0.2	0.2	0.2	0.2	
2030	R&R Water Tank	0.1	0.1	0.1	0.1	
2060	R&R Operators Handle Ass'y	0.3	0.3	0.3	0.3	
2150	R&R Operators Handle Shockmounts	0.4	0.4	0.4	0.4	
5000	R&R Vibrator Ass'y	0.4	0.4	0.4	0.4	
5040	R&R Shockmount	1.2	1.2	1.2	1.2	
5090	Rebuild Vibrator Complete(includes R&R)	1	1	1	1	
5250	R&R Belt Guard	0.1	0.1	0.1	0.1	
6000	R&R Throttle Cable Ass'y	0.2	0.2	0.2	0.2	
6010	R&R Throttle Control Lever	0.2	0.2	0.2	0.2	
7010	Replace "V" Belt	0.3	0.3	0.3	0.3	
7100	R&R Driven Pulley	0.4	0.4	0.4	0.4	
8000	Accessory	1	1	1	1	.1
9000	Miscellaneous	1	1	1	1	.1
9100	Replace Tires					.1

OPC	PLATE COMPACTORS- REVERSIBLE	Models		
		MVH120GH MVH120VGH MVH200D MVH208GH	CPAS308DZ MVH308DZ MVH308GH	CPAS408DZ CPAS508DZ MVH408DZ MVH408GH MVH508DZ
1000	R&R Engine Diesel	1	1	1
1010	Engine R&R Honda (Gasoline)	0.5	0.5	0.5
1141	Check & Adjust Engine RPM Gas	0.2	0.2	0.2
1150	Check & Adjust Engine RPM Diesel	0.5	0.5	0.5
1170	Clean Fuel Tank (includes R&R)	0.5	0.5	0.5
2060	Engine Rebuild Diesel	6.1	6.1	6.1
2140	R&R Operators Handle Ass'y	0.3	0.3	0.3
2160	R&R Pipe Frame	0.5	0.5	0.5
3020	R&R Operators Handle Shockmount	0.4	0.4	0.4
3080	Rebuild Hydraulic Pump (includes R&R)	0.2	0.2	0.2
3250	R&R Hydraulic Hoses	0.8	0.8	0.8
3260	Reseal Hydraulic Pump (includes R&R)	2.2	2.2	2.2
4130	Bleed Vibrator Hydraulic System	0.5	0.5	0.5
4140	Replace Piston Cylinder Seals	0.8	0.8	0.8
5000	R&R Remote Internal Control Cable Wiring Harness	2.2	2.2	2.2
5090	Replace Remote Control Logic Box Reciever	1.2	1.2	1.2
5200	R&R Vibrator Ass'y	1.5	1.5	1.5
5251	Rebuild Vibrator Complete(includes R&R)	4.2	4.2	4.2
6000	R&R Base Plate	2	2	2
6010	R&R Belt Guard Back Plate	2	2	2
7000	R&R Throttle Cable Ass'y	0.8	0.8	0.8
7010	R&R Throttle Control Lever	0.5	0.5	0.5
7110	R&R Clutch and Rebuild	0.7	0.7	0.7
8000	Replace "V" Belt	0.4	0.4	0.4
9000	R&R Exciter Pulley	0.7	0.7	0.7
8000	Accessory	1	1	1
9000	Miscellaneous	1	1	1

OPC	RAMMERS	Models		
		MTX60HD MTX70HD MTX70HDR MTX80HDR	MTR40HF	355XA 460XA 485XA 660X 685XA
1010	Engine R&R Honda (Gasoline)	0.5	0.5	
1021	Rebuild Engine Honda (Includes R&R)	2.5	2.5	
1050	R&R Piston, Rings, & Cylinder	1	1.2	
1060	R&R Governor (Includes R&R engine)	1	1	
1070	R&R Recoil Starter	0.2	0.2	
1080	Repair Recoil Starter (Includes R&R)	0.5	0.5	
1090	R&R Blower Housing	0.2	0.2	
1100	Reseal Crankcase	1.2	1.2	
1110	R&R Carburetor	0.2	0.2	
1120	Rebuild Carburetor (Includes R&R)	0.6	0.6	
1130	R&R Fuel Filter & Hoses	0.2	0.2	
1140	Check & Adjust Engine RPM Gas	0.2	0.2	
1150	Clean Fuel Tank (Includes R&R)	0.5	0.5	
2040	Rebuild Rammer Crankcase Assembly (Includes R&R)	1.5	1.5	
2050	R&R Operators Protective Roll Cage Assembly	0.2	0.2	
2060	R&R Operators Handle Shock Mount	0.3	0.3	
2070	Replace Crankcase Cover Gasket	0.6	0.6	
2080	R&R Bottom End (Rammer)	0.8	0.8	
2090	Rebuild Bottom End (Rammer Includes R&R)	1	1	
2100	R&R Protective Sleeve	0.9	0.9	
2110	R&R Oil Sight Glass	0.1	0.1	
2120	R&R Guide Cylinder	1	1	
6000	R&R Throttle Cable Assembly	0.3	0.3	
6010	R&R Throttle Control Lever	0.8	0.1	
7000	R&R Clutch and Rebuild	1	1	
8000	Accessory	1	0.1	1
9000	Miscellaneous	1	1	1

		<b>Models</b>	
<b>OPC</b>	<b>REBAR EQUIPMENT- CUTTERS AND BENDERS</b>	<b>HBC19B HBC25B</b>	<b>MB25A</b>
3020	Rebuild Hydraulic Pump	1	1
3370	R&R Hydraulic Pump for Rebuild	0.2	0.2
3390	Change Hydraulic Oil	0.5	0.5
3400	R&R Accumulator (bladder)	1.2	1.2
3410	Repair Hyd Cylinder	0.8	0.8
4210	R&R Stator	0.4	0.4
4220	R&R Rotor	0.5	0.5
4230	R&R Power Cord	0.3	0.3
4240	R&R On/Off Switch	0.2	0.2
4310	R&R Brushes	0.1	0.1
5540	R&R Cutting Blades	0.4	0.4
5550	R&R Return Spring	1	1
5560	R&R Rollers & Shoes	0.4	0.4
7001	Replace Clutch	1.3	1.3
7160	Rebuild Gear Box	0.8	0.8
8000	Accessory	0.1	0.1
9000	Miscellaneous	0.1	0.1

		<b>Models</b>
<b>OPC</b>	<b>ROLLERS- RAMMAX WALK BEHIND TRENCH</b>	<b>RX1575 RX157533 RW1585</b>
1000	R&R Engine Diesel	4
1170	Engine Rebuild Diesel	14.5
3010	R&R Hydraulic Pump Coupler	1.2
5290	R&R Engine Shockmounts (4)	1.5
5300	R&R Safety Bar	0.6
5310	R&R Engine Cover	0.4
5320	R&R Center Cover	0.3
3280	R&R Hydraulic Valve Cover	0.4
4150	R&R Voltage Regulator	0.3
4000	R&R Wiring Harness(complete) Gas & Diesel	2
4160	R&R Start Stop Relay (manual control)	0.5
4170	R&R Wiring Harness (remote control) Complete	1.2
4180	R&R Logik Box (remote control)	0.6
4020	R&R Ignition Switch	0.5
4110	Battery	0.2
3000	R&R Hydraulic Pump	1
3290	R&R Vibratory Exciter Motor	0.3
5330	Replace Nylon Drive Coupler Vibratory Eccentric	0.6
5140	R&R Rubber Isolation Shock Mounts (All)	0.8
5040	R&R Shockmount	0.3
5340	Replace Exciter Carrier Bearings Vibrator Eccentric	1.3
5101	R&R Drum Drive Ass'y	1.2
3300	R&R Control Valve (manual)	0.8
3310	R&R Control Valve ( remote control)	0.6
3320	R&R Relief valve	0.4
3330	Adjust Hydraulic Pressure Relief Valve	0.6
3340	R&R Safety Bar control valve	0.5
3080	R&R Hydraulic Hoses	0.6
3081	R&R Hydraulic Hoses Viper	3
5100	R&R Drum	0.2
6000	R&R Throttle Cable Ass'y	0.5
6010	R&R Throttle Control Lever	0.5
3350	R&R Hydraulic Tank	1.5
3360	R&R Rotary Motor & Coupler	4
8000	Accessory	1
9000	Miscellaneous	1

OPC	SINGLE DRUM AND RIDE-ON ROLLERS	Models	
		V305EH	AR14H
1010	Engine R&R Honda (Gasoline)	0.5	0.6
1030	R&R Starter		0.2
1040	R&R Transfer Pump		0.2
1140	Check & Adjust Engine RPM Gas	0.2	0.2
1150	Clean Fuel Tank (includes R&R)	0.5	0.5
1190	Check & Adjust Engine RPM -Diesel		1
2060	R&R Operators Handle Ass'y	0.3	
3000	R&R Hydrostatic/Hydraulic-Pump/Motor	0.6	0.6
3010	R&R Hydraulic Pump Coupler		1.3
3020	Rebuild Hydraulic Pump (includes R&R)		0.3
3030	Rebuild Control Valve Ass'y (Incl R&R)		0.9
3040	R&R Steering Valve Ass'y		0.8
3050	R&R Drive Plate Ass'y		0.8
3060	R&R Drive Motor Ass'y		2.5
3070	R&R Vibrator Drive Motor		0.3
3080	R&R Hydraulic Hoses		0.8
3090	R&R Hydraulic Return Filter		0.3
3100	R&R Hydraulic Filter Suction		0.3
3120	Test & Adjust Hydraulic Pressure		0.7
3210	R&R Steering Cylinder		0.3
4000	R&R Wiring Harness(complete) Gas & Diesel	2.2	2.2
4010	R&R Electric Fuel Pump		0.5
4020	R&R Ignition Switch		0.5
4030	R&R Vibrator Electric Switch		0.5
5000	R&R Vibrator Ass'y	2	3
5020	R&R Vibration Accuator Lever	0.5	
5030	R&R Forward / Reverse Lever	0.3	0.6
5050	R&R Forward / Reverse Cable	0.6	
5060	R&R Vibrator Bearings (includes R&R)	3	
5070	R&R Drum Bearings (per Drum).	2.6	3
5080	R&R Scraper Bars& Scraper Mats(per drum)	0.5	
5090	Rebuild Vibrator (bearings etc.) (Incl. R&R)		4
5100	R&R Drum		2
5260	Rebuild Vibrator Clutch Assembly(incl.R&R)	1.3	
5270	R&R Articulation Center Pin Ass'y		2.5
5280	R&R Center Pin Bearings		2.7
6000	R&R Throttle Cable Ass'y	0.4	0.8
6010	R&R Throttle Control Lever	0.4	
7000	R&R Clutch and Rebuild	.9	
7010	Replace "V" Belt	0.3	
7020	R&R Vibrator Clutch	0.9	
7060	R&R Drum Drive Sprockets/belts	1.8	
7070	Adjust Drive Chain & Drive Belts	0.6	
7120	R&R Drive Chain & Drive Belts	0.7	
8000	Accessory	1	1
9000	Miscellaneous	1	1

		<b>Models</b>
<b>OPC</b>	<b>WALK BEHIND DOUBLE DRUM ROLLER</b>	<b>MRH601DS MRH800GS</b>
1000	R&R Engine (Diesel)	1
1010	Engine R&R Honda (Gasoline)	0.5
1150	Clean Fuel Tank (Includes R&R)	0.5
1140	Check & Adjust Engine RPM Gas	0.2
6000	R&R Throttle Cable Assembly	0.4
6010	R&R Throttle Control Lever	0.4
5050	R&R Forward / Reverse Cable	0.5
5010	R&R Vibration Accuator Cable	0.3
5020	R&R Vibration Accuator Lever	0.4
5030	R&R Forward / Reverse Lever	0.3
7000	Rebuild Clutch / Replace Springs (Includes R&R)	0.8
7010	Replace "V" Belt	0.4
7020	R&R Vibrator Clutch	0.7
5260	Rebuild Vibrator Clutch Assembly (Includes R&R)	1.3
2060	R&R Operators Handle Assembly	0.3
5041	R&R Shock Mounts (Mainframe)	0.6
7120	R&R Drive Chain & Drive Belts	0.7
7070	Adjust Drive Chains & Belts	0.6
7080	R&R Drive Sprocket	2.5
7130	R&R Sprocket Drive Bearings	2.8
7050	R&R Chain Adjuster / Bearing	1.4
5080	R&R Scraper Bars& Scraper Mats (Per Drum)	0.5
5000	R&R Vibrator Assembly	1.5
5060	R&R Vibrator Bearings (Includes R&R)	2.8
5070	R&R Drum Bearings (Per Drum).	3.1
7060	R&R Drum Drive Sprockets / Belts	2.8
3000	R&R Hydrostatic / Hydraulic Pump/Motor	0.6
8000	Accessory	1
9000	Miscellaneous	1

		<b>Models</b>	
<b>SAWS- FLAT AND PAVEMENT</b>		SP1G SP118 SP15E16 SP213H20A SPSS13H20A SPSS20H	SP1WK 10PSA 14PWBA 16PWBA 18PWBA 20PWBA 10PSG 14PWBC 16PWBC 18PWBC 20PWBC
<b>OPC</b>			
1010	Engine R&R Honda (Gasoline)	0.5	
1021	Rebuild Engine Honda (includes R&R)	3	
1030	R&R Starter (electric)	0.2	
1040	R&R Transfer Pump	0.5	
1070	R&R Recoil Starter	0.2	
1100	Reseal Crankcase	1	
1120	Rebuild Carburetor	0.5	
1130	R&R Fuel Filter& Hoses	0.2	
1140	Check & Adjust Engine RPM Gas	0.3	
1150	Clean Fuel Tank R&R	0.5	
1180	R&R Fuel Tank	0.4	
1220	R&R Carb.	0.5	
1230	Tune Up	0.4	
1400	R&R Air Cleaner Assembly	0.2	
1401	R&R Lift pump	0.5	
1402	R&R Glow Plug or Lift pump solenoid	0.5	
2020	R&R Water Pump (Watering System)	0.1	
2400	R&R Shaft bearing (any) each	0.2	
3600	R&R Lift cylinder	1	
3601	R&R Depth stop cylinder	0.5	
4001	R&R Wiring harness	1	
4051	R&R Gauge	0.5	
4110	R&R Battery	0.3	
4190	R&R Electric Motor	0.3	
5501	R&R Jack screw (Height adjuster)	0.4	
5502	R&R Depth indicator cable	0.5	
5503	R&R Depth stop valve	0.4	
7010	Replace "V" Belt	0.2	
7090	R&R Transmission Assembly	2	
7410	Exchange drive wheels (each)	0.2	
7411	R&R Exchange Axle Horn	0.8	
7420	R&R Blade shaft	0.7	
7421	Rebuild Blade shaft	1.5	
7422	R&R Blade shaft drive belt	0.2	
7423	R&R Exchange blade shaft flanges	0.1	
7500	R&R Exchange Carriage/Axle assmembly	0.5	
7501	R&R Front Axle	1.4	
800	Accesory		0.1
9000	Miscellaneous	0.1	0.1
9020	Lost Segment		0.1
9030	Wears to fast		0.1
9040	Will not cut		0.1
9050	Out of round/not flat		0.1
9300	R&R Saw Blade	0.1	
9310	R&R Conveyor chart wheels	0.1	



OPC	SAWS- MASONRY AND TILE	Models			
		MP3 MP115E MP1203 MP1H MP25E1 MP25E3 MP2H	TP7X TP24 TP24X	MS3WK MS3SS TRAK14SS MP3DK	TSS, TSSX 7T, 10T 7TP, 10TP 7TS, 10TS 7PTP, 10PTP
1000	R&R Engine Diesel	1.6	1.6		
1010	Engine R&R Honda (Gasoline)	0.5	0.5		
1011	Engine R&R Robin (Gasoline)	0.5	0.5		
1020	Rebuild Engine Robin (includes R&R)	3	3		
1021	Rebuild Engine Honda (includes R&R)	3	3		
1030	R&R Starter (electric)	0.2	0.2		
1040	R&R Transfer Pump	0.5	0.5		
1070	R&R Recoil Starter	0.2	0.2		
1100	Reseal Crankcase	1	1		
1120	Rebuild Carburetor	0.5	0.5		
1130	R&R Fuel Filter& Hoses	0.2	0.2		
1140	Check & Adjust Engine RPM Gas	0.3	0.3		
1141	Check & Adjust Engine RPM Diesel	0.5	0.5		
1150	Clean Fuel Tank R&R	0.5	0.5		
1170	Engine Rebuild Diesel	8	8		
1180	R&R Fuel Tank	0.4	0.4		
1190	Check & Adjust Engine RPM Diesel	0.2	0.2		
1220	R&R Carb.	0.5	0.5		
1230	Tune Up	0.4	0.4		
1400	R&R Air Cleaner Assembly	0.2	0.2		
1401	R&R Lift pump	0.5	0.5		
1402	R&R Glow Plug or Lift pump solenoid	0.5	0.5		
2020	R&R Water Pump (Watering System)	0.1	0.1		
2400	R&R Shaft bearing (any) each	0.2	0.2		
3600	R&R Lift cylinder	1	1		
3601	R&R Depth stop cylinder	0.5	0.5		
4001	R&R Wiring harness	1	1		
4051	R&R Gauge	0.5	0.5		
4110	R&R Battery	0.3	0.3		
4190	R&R Electric Motor	0.3	0.3		
5501	R&R Jack screw (Height adjuster)	0.4	0.4		
5502	R&R Depth indicator cable	0.5	0.5		
5503	R&R Depth stop valve	0.4	0.4		
7010	Replace "V" Belt	0.2	0.2		
7090	R&R Transmission Assembly	2	2		
7410	Exchange drive wheels (each)	0.2	0.2		
7411	R&R Exchange Axle Horn	0.8	0.8		
7420	R&R Blade shaft	0.7	0.7		
7421	Rebuild Blade shaft	1.5	1.5		
7422	R&R Blade shaft drive belt	0.2	0.2		
7423	R&R Exchange blade shaft flanges	0.1	0.1		
7500	R&R Exchange Carriage/Axle assembly	0.5	0.5		
7501	R&R Front Axle	1.4	1.4		
8000	Accessory			0.1	
9000	Miscellaneous	0.1	0.1	0.1	
9300	R&R Saw Blade	0.1	0.1		
9310	R&R Conveyor chart wheels	0.1	0.1		

		<b>Models</b>
<b>OPC</b>	<b>SCREEDS- DUO</b>	<b>DSGPULW</b>
1010	Engine R&R Honda (Gasoline)	0.5
1010	Engine R&R Honda (Gasoline)	
1070	R&R Recoil Starter	0.2
1220	R&R Carb.	0.5
1230	Tune Up	0.4
4190	R&R Electric Motor	0.5
5040	R&R Rubber Buffer Shockmounts	1
5330	Rebuild Carb.Includes (R&R)	1
5390	Replace Screed Section	
5400	R&R Blade (profile) @	0.5
5410	R&R Operating Handle	0.5
6000	R&R Throttle Cable Complete	0.1
8000	Accessory	0.1
9000	Miscellaneous	0.1

OPC	SCREEDS- VIBRATORY TRUSS	Models		
		WSHEIC WSHEKITUJ WSHRBE	WSKITAEB WSKITAEBR	1WSHESPW(L) WSHESPW(R)
1010	Engine R&R Honda (Gasoline)	0.3	0.3	0.3
1070	R&R Recoil Starter	0.2		0.2
1220	R&R Carb	0.4		0.4
1230	Tune Up	0.7		0.7
3140	R&R Gear Pump	2		2
4190	R&R Electric Motor	0.1		0.1
5040	R&R Shockmount	1		1
5330	Rebuild Carb.Includes (R&R)	0.8		0.8
5350	R&R Coupling Drive Pin	0.4		0.4
5360	R&R Pillow Block Bearing	0.2	0.2	0.2
5370	R&R Air Control System	0.2	0.2	0.2
5380	R&R Air Vibrator	0.1	0.1	0.1
5390	Replace Screed Section	1		1
5400	R&R Blade(profile)	0.5	0.5	0.5
5410	R&R Operating Handle	0.2		0.2
5420	R&R Winch	0.2		0.2
5430	R&R Winch Cable	0.2		
6000	R&R Throttle Cable Ass'y	0.1		0.1
7010	Replace "V" Belt	0.5		0.5
8000	Accessory	0.1	0.1	0.1
9000	Miscellaneous	0.1	0.1	0.1

		Models	
OPC	TRAILERS AND WHEEL KITS	TRAILERS	WHEEL KITS
8000	Accessory	0.1	
8010	R&R Wheel bearings (inner/outer side)	1	
8020	Replace brake lining ( per side)	1	
8030	Replace electrical harness	0.5	
8040	Replace brake actuator	0.5	
800	Miscellaneous		0.1
9000	Miscellaneous	0.1	0.1
9100	Replace tires	0.3	0.1

OPC	TROWELS- WALK BEHIND	Models						
		B46H90 B46H11	CA4HM CA4HC	HDA48413H	J36E2 J36H55 J36H90H JH55C JS60C	PRO36 PRO46	TROWEL BLADES AND FLOAT PANS	TROWEL HANDLES
1002	R&R Gasoline Engine		0.8			0.8		
1010	Engine R&R Honda (Gasoline)	0.5			0.5			
1021	Rebuild Engine Honda (includes R&R)	2.5		2.5	2.5			
1140	Check & Adjust Engine RPM Gas	0.5	0.6	0.5	0.5	0.5		
1170	Engine Rebuild Diesel							
1180	R&R Fuel Tank	0.3	0.3	0.3	0.3	0.3		
4190	R&R Motor (Electric)	0.5	0.4		0.5			
4240	R&R On/Off Switch	0.5	0.5	0.5		0.5		
4681	R&R Safety Shut Down Switch	0.3	0.3	0.3	0.3	0.3		
5250	R&R Belt Guard	0.2	0.2	0.2	0.2	0.2		
5410	R&R Operating Handle	0.3	0.3	0.3	0.3	0.3		
5840	Replace Trowel Arm (each)	0.3	0.3	0.2	0.3	0.3		
5841	R&R Trowel Blades(each)	0.3	0.2	0.3	0.2	0.2		
5850	R&R Trowel Arm Bushing (each)	0.3	0.3	0.3	0.3	0.3		
5870	R&R Blade Pitch Cable - manual	0.8	0.8	0.8	0.8	0.8		0.8
5871	R&R Quick Pitch Cable	0.6	0.6	0.6	0.6	0.6		0.6
5872	R&R Quick Pitch Spring	1	0.6	1	0.6	1		1
5873	R&R Pitch handle for bushing replacement	0.5	0.5	0.5	0.5	0.5		
5940	Replace Spider (assumes readjustment of blades)	2	2	2	2	2		
7010	Replace "V" Belt	0.5	0.5	0.5	0.5	0.5		
7160	Rebuild Gear Box (includes R&R)	1.8	1.8	1.8	1.8	1.8		
7180	R&R Gear Box	0.6	0.6	0.6	0.6	0.6		
7210	R&R drive gear	1	0.3	1	1	0.3		
7220	R&R drive worm	1.8	0.4	1.8	1.8	0.3		
7230	R&R plunge worm	1.8	1.8	1.8	1.8	1.8		
8000	Accessory	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8050	R&R Trowel Blades (each)						0.3	
9000	Miscellaneous	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9030	Wears to fast						0.1	
9060	Adjust Trowel Arms(assumes removal of spyder Assembly)	0.5	0.6	0.6	0.5	0.5		

OPC	TROWELS- RIDE-ON	Models							
		HHN	HHX	HTH	HTN	HTX	JWN	STX	TROWEL BLADES AND FLOAT PANS
1000	R&R Engine (Diesel)	3	3	4	3	4		4	
1002	R&R Gasoline Engine						3		
1030	R&R Starter (electric)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
1140	Check & Adjust Engine RPM Gas	0.5	0.5		0.5		0.4		
1141	Check & Adjust Engine RPM Diesel			0.6		0.6		0.6	
1170	Engine Rebuild Diesel			13		13		13	
1171	Engine Rebuild Gasoline	12	12		12				
3000	R&R Hydraulic Motor/Pump			1		1		1	
3230	R&R Drive Motor			2.5		2.5		2.5	
3490	R&R Hydraulic Steer Cylinder			0.5		0.5		0.5	
3500	R&R Hydraulic Blade Pitch Cylinder			0.4		0.4		0.4	
4000	R&R Wiring Harness (complete) Gas & Diesel	1.5	1.5	1.5	1.5	1.5		1.5	
4240	R&R On/Off Switch	0.4	0.4	0.4	0.4	0.4		0.4	
4590	R&R Safety Switch(seat)	0.4	0.4	0.4	0.4	0.4		0.4	
4600	R&R Electrical Switches & Relays avg.	0.6	0.6	0.6	0.6	0.6		0.6	
5820	Rebuild Pitch Control (manual)	3.5	3.5	3.5	3.5	3.5	3.5		
5830	Rebuild Pitch Control (hydraulic) L & R			3		3		3	
5840	Replace Trowel Arm (each)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
5850	R&R Trowel Arm Bushing (each)	0.3	0.3	0.3	0.3	0.3	0.6	0.3	
5860	R&R Belt Guard	0.5	0.5		0.5		1		
5870	R&R Blade Pitch Cable	1	1	1	1	1	1		
5880	R&R Steer Adjusting Hyme Joints	0.8	0.8	0.8	0.8	0.8		0.8	
5890	R&R Twin Pitch AssemblyComplete	1.2	1.2	1.2	1.2	1.2	1.2		
5900	R&R Miter Box	0.6	0.6	0.6	0.6	0.6	0.6		
5910	R&R Pump Timing Rod			0.5		0.5		0.5	
5920	Adjust Pump Timing Rod			1		1		1	
5930	Adjust Steering Linkage (Complete)	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
5940	Replace Spider (assumes readjustment of blades)	2	2	2	2	2	2	2	
5991	R&R Hydraulic Pump Speed adjust Cable			1		1		1	
6000	R&R Throttle Cable Assembly	0.8	0.8	0.8	0.8	0.8	0.8	0.8	
7000	R&R Clutch and Rebuild	0.6	0.6		0.6		1		
7010	Replace "V" Belt	0.5	0.5		0.5		0.5		
7180	R&R Gear Box	2	2		2		2		
7190	R&R CV Joint	1	1		1				
7200	R&R Drive Pulley	1	1		1		1		
8000	Accessory	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
8050	R&R Trowel Blades	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
8060	R&R Retardent Pump	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
9000	Miscellaneous	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
9030	Wears to fast								0.1
9060	Adjust Trowel Arms (assumes removal of spyder Assembly)	1	1	1	1	1	1	1	

OPC	WATER PUMPS- CENTRIFUGAL AND DIAGPHRAGM	Models		
		QP151	QP205SH QP205SLT QP2H QP303H QP402H QPT305SLT QPT405SLT	MQD2H MQD3H
1000	R&R Engine Diesel	0.8		
1010	Engine R&R Honda (Gasoline)	0.8	0.7	0.6
1021	Rebuild Engine Honda (includes R&R)	2.5	3.4	2.5
1140	Check & Adjust Engine RPM Gas	0.3	0.3	0.3
2140	R&R Pipe Frame	0.5	0.5	0.4
2200	R&R Base	0.5	0.5	
5040	R&R Shockmount	0.3	0.3	
5150	R&R Pump End	0.8	1	1
5160	Rebuild Pump End Complete	0.5	0.8	0.6
5170	R&R Mechanical Seal	0.4	0.5	
5180	R&R Impeller/Shim	0.3	0.3	
5190	R&R Volute	0.3	0.4	
5210	R&R Flapper	0.2		1.2
8000	Accessory	0.1	0.1	0.1
9000	Miscellaneous	0.1	0.1	0.1
9010	Vacuum Test (or pressure test)	0.4	0.4	0.2

OPC	WATER PUMPS- TRASH	Models		
		QP2TH QP3TH QP3TI QP3THX QP3TS QP4TH	QP2TK QP3TK QP4TK QP4TKT10 QP4TKT16 QP4TKT28 MQ62TKS MQ62TKT MQ600HTB MQ600HTP	HS AND HSQ SERIES HD AND HDQ SERIES A200A, A300, A400A, A600A
1000	R&R Engine Diesel		0.8	
1010	Engine R&R Honda (Gasoline)	0.8	0.8	
1021	Rebuild engine - Honda	2.5	2.5	
1140	Check & Adjust Engine RPM (Gasoline)	0.3	0.3	
1170	Rebuild engine - Diesel	7	7	
1190	Check & Adjust Engine RPM (Diesel)	0.5	0.5	
2140	R&R Pipe Frame	0.5	0.5	
2200	R&R Base	0.5	0.5	
5040	R&R Shockmounts	0.3	0.3	
5150	R&R Pump End	0.8	0.8	
5160	Rebuild pump end complete	0.7	0.5	
5170	R&R Mechanical Seal	0.4	0.4	
5180	R&R Impeller / Shim	0.3	0.3	
5190	R&R Volute	0.3	0.3	
5210	R&R Flapper	0.2	0.2	
8000	Accessory	0.1	0.1	0.1
9000	Miscellaneous	0.1	0.1	0.1
9010	Vacuum Test (or pressure test)	0.4	0.4	0.1



		Models			
<b>OPC</b>	<b>WATER PUMPS- SUBMERSIBLE PUMPS</b>	YELLSUB SS233 ST2038P ST2037 ST2037F ST2047 ST3020BCUL ST3050D ST41230 ST41460 ST61230 ST61460	PX400 ST2040T ST2040TF ST2010TCUL	CB3 CB6 CB200 CB1269 CB1274 CB1456 CB1463 SW1A SW1WOPA SW2A	HD1550 HD250 HD350 HD450 HD650 HDQ1550 HDQ250 HDQ350 HDQ450 HDQ650
2021	Pump Disassembly Trouble Shooting	1	1	1	
4190	R&R Electric Motor	1.2	1.2	1.2	
4230	R&R Power Cord	1	1	1	
4580	R&R Capacitor	0.7	0.7	0.7	
4602	R&R Centrifigual Switch	0.6	0.6	0.6	
4603	R&R Cut Off Switch	0.8	0.8	0.8	
5170	R&R Mechanical Seal	1.3	1.3	1.3	
5180	R&R Impeller / Shim	1	1	1	
5190	R&R Volute/ Discharge Base	0.8	0.8	0.8	
8000	Accessory	0.1	0.1	0.1	0.1
9000	Miscellaneous	0.1	0.1	0.1	0.1
9010	Vacuum Test (or pressure test)	0.2	0.2	0.2	0.1

OPC	WATER PUMPS- WATER TRAILERS	Models	
		WT5C WTE5C WT5HP WTE5HP	SUCTION HOSES, DISCHARGE HOSES, FIREHOSE NOZZLES, HOSE REEL ASSEMBLY
1011	Engine R&R Robin (Gasoline)	0.5	
1020	Rebuild Engine Robin (includes R&R)	3.2	
1140	Check & Adjust Engine RPM Gas	0.3	
2140	R&R Pipe Frame	0.4	
2200	R&R Base	0.5	
5040	R&R Shockmount	0.3	
5150	R&R Pump End	0.7	
5160	Rebuild Pump End Complete	0.5	
5170	R&R Mechanical Seal	0.3	
5180	R&R Impeller / Shim	0.2	
5190	R&R Volute	0.3	
8000	Accessory	0.1	0.1
9000	Miscellaneous	0.1	0.1
9010	Vacuum Test (or pressure test)	0.4	0.1

OPC	WELDERS	Models		
		GAW135H GAW180HEA	SDW225SSA1 DLW300ESA1 DLW330X2 DLW400ESA4 DAW500SA4	WELDERS OPTIONS
1000	R&R Engine - Diesel		4	
1010	R&R Engine - Gasoline	1.3		
1030	R&R Starter		0.5	
1140	Check & Adjust Engine RPM (Gasoline)	0.3	0.3	
1190	Check and Adjust Engine RPM (Diesel)		0.5	
1260	R&R Fuel injector		0.4	
1270	R&R engine water pump		1	
1280	R&R Radiator	1.6	1.6	
2140	R&R Pipe Frame	0.6	0.6	
2200	R&R Base	0.4	0.4	
4050	R&R Engine alternator		0.5	
4150	R&R Voltage Regulator	0.3	0.3	
4210	R&R Stator	1.2	1.2	
4220	R&R Rotor	2.5	2.5	
4230	R&R Power Cord			0.2
4320	R&R Current Transformer	0.6	0.6	
4330	R&R Field Controller / Transistor Module ( both)	0.5	0.5	
4330	R&R Field controller (install&adjust)	0.5	0.5	
4340	R&R Slowdown Solenoid(eng. End) or Diesel/Rotary	0.5	0.5	
4340	R&R Slowdown	0.2	0.2	
4350	R&R Circuit Breaker (each)	0.5	0.5	
4350	R&R Circuit protector breaker	0.3	0.3	
4360	R&R Receptacle (each) GFCI	0.5	0.5	0.4
4370	R&R Voltmeter or ammeter	0.5	0.5	0.4
4380	R&R Condenser	0.3	0.3	
4390	R&R Welding rectifier	0.5	0.5	
4400	R&R Field Assembly(excitation)	2.5	2.5	
4410	R&R Control Module Complete	0.8	0.8	
4420	Replace excitation rectifier (exciter Assembly)	2	2	
4430	Replace resistor (panel)	0.2	0.2	
4440	Replace Miscellaneous. rectifier (panel)	0.3	0.3	
4450	R&R Current controller (DC)(install&adjust)	0.4	0.4	
4460	R&R Current range selector	0.5	0.5	
4470	R&R Relay	0.2	0.2	
4480	R&R Thyristor controller	0.2	0.2	
4490	R&R Selector (current & voltage)	0.3	0.3	
4500	R&R Idle control switch or Weld selector switch	0.2	0.2	
4510	R&R ECU	0.2	0.2	
4750	Install Welder Remote Control			2
5040	R&R Shockmount (each)	0.3	0.3	
5800	R&R Rotor Carrier Bearing End Bracket	0.8	0.8	
5810	R&R End Bearing	0.9	0.9	
6070	R&R Slowdown Solenoid (eng. end) or Diesel/Rotary	0.3	0.3	
8000	Accessory	0.1	0.1	0.1
9000	Miscellaneous	0.1	0.1	0.1
9010	Replace Tires	0.2	0.2	0.2



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