ServiceMASTER®

Electro Rotos

Stock No. 50850 16” (120V OR 230V)
Stock No. 50800 20” (120V OR 230V)

Commercial Floor Machine

Operation & Parts Manual

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ServiceMaster Electro Roto

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SECTION I

SERVICEMASTER 16" AND 20" ELECTRO ROTO
-- For Commercial Use --
Specifications

MODEL	STOCK NO.	BRUSH RPM.	SIZE	H.P.	FULL LOAD AMPS	WATTS	VOLTS	Hz
516	50850	175	16"	1	14.9	1020	115	60
507	50800	175	20"	1 1/2	14.9	1460	115	60

MOTOR: AC, capacitor start/capacitor run (66 frame), 1.0 HP
AC, capacitor start/capacitor run (66 frame), 1.5 HP
Single-phase , constant duty

Heat Rise 1 H.P. 40 degrees Celsius
1.5 H.P. 50 degrees Celsius

GEARBOX: Planetary type with 3 idler gears, 10:1 ratio. Grease lubricant sealed in unit for continuous use. Neoprene covered steel coupling with steel collar provides for engagement between gearbox and motor.

BASE: 11 Gauge epoxy painted steel with 5" fixed Ball Bearing wheels.

HANDLE: All welded chrome plated steel construction on 1-3/8" ASSEMBLY: diameter handle tube. Left hand or right hand operation of switch levers with safety lock to prevent accidental starting.

CORD: 50ft., 14-3 safety yellow extension.

CORD HOOK: Lower hook has provision for hanging a Driving Assembly or Brush by its clutch plate.

SOLUTION TANK: Polyethylene construction for chemical resistance with finger touch-controlled flow through Electro Valve.

WEIGHT: 16" Electro Roto 115 lbs.
20" Electro Roto 125 lbs.

RULES FOR SAFE OPERATION

1. Give complete and undivided attention to the job at hand.
2. Never operate a roto unless handle is properly locked (See operation Instrutions).
3. Never operate a roto with a damaged cord.
4. When learning to operate a roto, choose an open area where there are no people close by.
5. Never use the Driving Assembly without a maintence disc.
6. attach the Disc Driving Assembly by hand. Never “Jump load.”
7. If the roto should start vibrating, stop it immediately and check for damaged or loose parts or non-concentric pad or flat spot on pad.
8. Never leave a roto unattended without first unpluggingplug from wall.
9. Do not operate the roto when moisture is suspected to have entered the motor, the switches of Electro Valve
10. Never break the grounding prong off the wall plug.
11. Test tighten all screws, buts, and bolts at frequent intervals to prevent damage or lost parts.
12. Also see Electrical Safety Precautions (next page)

SAFETY RECOMMENDATIONS

Be Safe - Avoid Possible Hazards

1. Your Electro-Roto is equipped with a power switch designed for safe opperation.
2. Never use any device to lock the power switch in the “ON” position.
3. Never operate a roto unless handle is properly locked.
4. To avoid hazardous conditions, do not use your machine in areas where flammable and/or explosive vapors or dust are present or on slippery floors.
5. Always disconnect the Elecrto-Roto from electrical outlet before servicing machine.
6. Use care to keep electrica; supply cord from contacting the rotating disc or drive block.
7. Do not allow children or unauthorized personnel to play with unit. Do not leave Electro-Roto connected to an electrical outlet and left unattended.

GROUNDING INSTRUCTIONS

This appliance must be grounded. If it should electrically malfunction, grounding provides a path of least resistance for electrical current to reduce the risk of electrical shock. This appliance is equipped in accordance with all local codes and ordinances.

DANGER!!!

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet us properly grounded. Do not modify the plug provided with the appliance. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120-volt circuit, and has a grounding plug that looks like the plug illustrated in figure 1 below. A temporary adapter illustrated in figures 2 and 3 may be used to connect this plug to a 2-pole receptacle as shown in figure 2, if a proper outlet is not available. The temporary adapter should be used only until a properly grounded outlet (figure 1) can be installed by a qualified electrician . The green-colored rigid ear, tab, or the like extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a metal screw. Grounding adapters are not approved for use in Canada.

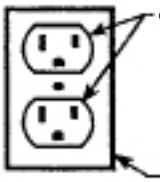
Replace the plug if the grounding pin is damaged or broken.

The Green (or green/yellow) wire in the cord is the grounding wire. When replacing a plug, this wire must be attached to the grounding pin only.

Extension cords connected to this machine should be 12 gauge, three wire cords, with three prong plugs and outlets. DO NOT use extension cords more than 50 feet (15 m) long.

PLEASE NOTE: FOR NORTH AMERICA ONLY (EXCEPT CANADA)

Figure 1



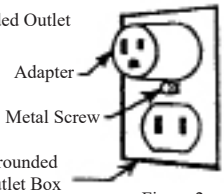


Figure 2

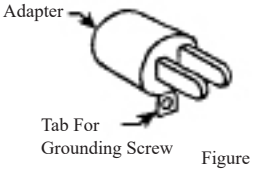


Figure 3

OPERATING INSTRUCTIONS

A. PREPARATION AND SET-UP

1. Roto

    a. Check the roto and components so ensure that they are in good operating condition.

2. Quick Release Handle

    a. The handle of your machine can be adjusted to any comfortable work position. Simply lift the handle-locking device located on the lower handle shaft to release the lock. Then adjust the handle to the desired position and push down firmly with hand or firmly with foot pressure to lock the handle in place.
    b. Adjust the handle to a position where you can control the machine and where the disc surface balances flat and level on the floor. Typically, the upper handle cross bar should be adjusted to a height 1" under the bottom of the back trouser pocket. Do not operate until Handle Quick Release is properly adjusted.

3. Driving Assemblies

    a. With the power disconnected and the machine tipped back on the floor, attach the disc driving assembly to the drive cover of the gearbox by lining up the three notches in the driving assembly with the three lugs on the drive cover. Insert the driving assembly and twist the assembly counterclockwise until it locks in place. The disc may be mounted before of after attaching the drive assembly
    b. Always remove the drive block prior to transporting machine to the next station. Place block on the cord hook!

WARNING!!

NEVER "jump load" the roto by holding the roto over the driving assembly to attach while the motor is running. This is a sure way to ruin the motor, break the coupling between the motor and the gearbox, or wear the adapter plate of the driving assembly. Evidence of this will void the warranty.

    c. Remember, none of the driving assemblies should be used directly on the floor without a maintenance disc or carpet bonnet.

4. Solution Tank

a. Be sure the strainer is securely seated into the bottom opening inside the tank.
b. To fill, set the shutoff valve in the closed position and the roto handle in a stand-up posit ion, slightly offset so accidental spillage will not drop on the motor.
c. Check the Electro Valve to ensure it is working properly, then open the shut-off valve (test the electro Valve before the driving assembly is mounted)

B. GUIDELINES FOR OPERATION

1. On-Off and Safety Switch Lock

a. Plug your machine into the correct 120 volt wall outlet.
b. A safety lock-out switch has been provided to prevent accidental start-up of your ma chine. Press this lockout switch, (located on top of the switch box, between the handle grips) forward to release the operating lever. The lockout switch will spring back into the safety lock position when you release the switch lever.
c. With the safety switch in the forward position, pull up on either the right or left hand trigger switch located under the handle grips to operate the machine. To stop the ma chine, simply release the trigger.

2. Solution Feed

a. To activate the Electro Valve to feed solution, pull up on both switch levers simultane ously. The valve remains open until one side is released.

3. General Guidelines

a. Your roto is a very sensitive and powerful unit. When in operation, it should be guided gradually and smoothly without sudden or rough motions. Practice with the machine on a smooth surface, in a remote untraveled location, first until you have experience in operating the unit.
b. To move your machine to the right, slowly apply SLIGHT UPWARD pressure on the handle with both hands.
c. To move the machine to the left, slowly apply SLIGHT DOWNWARD pressure on the handle again with both hands.
d. To move the machine directly forward, torque the handle SLIGHTLY DOWNWARD on the LEFT side.
e. To move the machine to the rear, torque the handle SLIGHTLY DOWNWARD on the RIGHT side.
f. Your machine will operate differently on various surfaces. For example, there will be much more resistance when the machine is use with a shampoo disc on a carpeted surface than with a polishing disc on a smooth surface.
g. If there is an incidence of fuse blowing, the roto should be used on a 20 amp circuit wherever possible.

C. POST OPERATION

1. Driving Assemblies

   a. Remove the electrical plug from the wall outlet.
   b. Put the handle into the upright position. Tilt the machine back so the handle is flat on the floor and driving assembly is perpendicular to the floor.
   c. Hold the driving assembly in both hands and turn it clockwise in a jerking motion. (A screwdriver may be inserted between the drive lug and clutch plat to assist in the release of a jammed driving assembly.)
   d. Always remove the driving assembly before standing the machine upright for storage. There is a vertical lug on the cord winder bracket for hanging the driving assembly.

2. Solution Tank (Gravity Feed)

   a. To empty the tank, close the tank shutoff valve, remove the bottom end of the solution hose from the hose barb on the Electro Valve.
   b. Hold the disconnected end of the solution hose in a bucket or other container. Open the shutoff valve and let the solution drain from the tank.
   c. Check the filter in the tank to ensure it is not clogged.

3. Clean Up

   a. Always wipe the machine down with a clean, soft, damp cloth before storing it.

4. Power Cord Storage

   a. When not in use, loosely wind the power cord around the cord storage hooks on the handle shaft and on e of the handle grips. Winding the cord double in a figure “8” pattern will save winding and unwinding time and prevent kinks in the stretched-out cord.

5. Storage

   a. Always store your machine in a clean, dry location wit the handle in an upright position and with driving assembly removed. Never lay the machine down to store.

This preventive maintenance guide will be helpful in keeping your roto in top operating condition to help ensure maximum usage and life.

The time intervals shown (daily, weekly, monthly or quarterly), are based on a typical 8-hour day.

Daily Checks

1. Check the filter inside the bottom of the tank. Clean or replace as required.
2. Clean the base of the roto.
3. Check electrical cords and plugs for loose prongs and connections, cracks or wear on insulation

Monthly Checks

CAUTION: Do not attempt any repairs without first disconnecting the electrical cords from the power source.

1. Check the toggle adjustment lever action, holding the handle position securely and re leasing properly. Adjust the hex nut, if required.
2. Test the tightness of the two handle cover screws at the back of the handle crossbar and tighten as required.
3. Clean any chemical deposits from all external surfaces around the motor, tank, electro-valve, etc.
4. Clean the motor head.
5. Check the tank and fittings for leaks.

Quarterly Checks

CAUTION: Do not attempt any repairs without first disconnecting the electrical cords from the power source.

1. Clean the cooling air passage on the top and bottom of the motor.
2. Check the bumpers round the base of the machine. Clean and replace, if worn, or if they no longer fit properly.
3. Check the tightness of the fasteners in the lower brackets holding the handle to the base, screws in the upper and lower cord hooks, screws holding the motor to the base, and the wheel axle screws.
4. Disassemble the elextro-valve; clean and check the seat a the bottom of the plunger.
5. Check the disc driving assembly for loose fasteners or damage repair, if needed.

This troubleshooting guide will assist in locating a malfunction that may develop.

To identify parts described here, refer to the pictures and the parts lists in the back of this manual.

For a detailed description of how to repair or replace parts, see the Roto Repair Guide.

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F. Roto Wobbles
G. Handle Adjustment (Quick Release) Working Improperly
H. Noises in Roto
I. Electrical Leakage
J. Defects in Motor Gear Unit
K. Overheating of Motor

A. "DEAD" ROTO MOTOR AND ELECTRO VALVE NOT WORKING

1. Not securely plugged into wall outlet. Twist lock not secure
2. Fuse or circuit breaker blown.
3. Defective plug; wire broken or loose on electrical cord.
4. Broken or loose connection in twist-lock connectors at the roto handle.
5. Defective electric cord.
6. Defective main switch.
7. Switch lever.
8. Defective motor (Electro-Valve may still work)

B. NO SOLUTION FLOW THORUGH ELECTRO VALVE

1. Manual shutoff valve under the tank is closed.
2. Clogged filter inside the bottom of the tank.
3. Electro Valve is not working (no click).
    i. Foreign matter in the valve is preventing movement (may hum but not operate).
    ii. Defective valve switch on the handle.
    iii. Valve switch linkage not engaged.
    iv. Electro Valve coil is open (burned out), or the connection is loose inside the coil housing.

C. SOLUTION LEAK THROUGH ELECTRO VALVE (NO POWER ON)

1. Foreign matter inside valve is holding the valve open; i.e., lint, fuzz, etc. (espe cially if the filter inside the tank is missing).
2. Dried floor finish inside the valve prevent the plunger from sealing.

3. A swollen or disintegrated seal at the base of the plunger, especially if high con centrations of solvents are used, such as GSL, DiasasterClene, MBI, in cleaning or shampoo mixtures.

D. FREQUENT POWER OVERLOADS – BLOWN BREAKERS OR FUSES
(Disconnect from the power source before making checks.)

1. Spray buffing disc is excessively clogged or glazed.
2. Shampoo disc too dry.
3. Line voltage too low, less than 110 volts.
4. Defect in motor (see "K").
5. Start-Stop repeated too often in a short interval.

E. DRIVE ASSEMBLIES OR BRUSHES CONSISTENTLY JAM ON HUB. DIFFICULT TO REMOVE.
(Disconnect from the power source before making checks.)

1. Worn clutch plate on drive block or brush.
2. Worn lugs on hub at base of motor gear unit.
   Note: "Stubborn" driving assemblies and brushes can be removed by inserting a large screwdriver through the center hole in the driver or brush prying the clutch surfaces apart.

F. ROTO WOBBLES
(Disconnect from the power source before making checks.)

1. Disc not centered under drive assembly.
2. Shampoo disc matted on one side.
3. Disc or brush bristles worn unevenly or flattened from improper storage.
4. Loose or sheared screw clutch plate to drive assembly or brush back.
5. Warped backing, especially wood-backed assemblies.

G. HANDLE HEIGHT ADJUSTMENT (QUICK RELEASE) WORKING IMPROPERLY

1. Handle skips or won't lock. Tighten flex lock hex nut on quick release as sembly.
2. Does not release handle – loosen flex lock hex nut.
   Note: If above adjustments cannot be achieved, cam surfaces on quick release Handles or on the washer may be worn. Replace quick release handle and washer.
3. Handle tube has buildup of soil or rust.

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A. Main Switch and Electro Valve Switch
B. Shunt Cord or Strain Reliever
C. Electro Valve
D. Bumper
E. Motor Gear Unit
F. Remove and Replace Handle Assembly (for Base Assembly)

A. MAIN SWITCH OR ELECTRO VALVE SWITH, REPLACE

(Disconnect from power source before making repairs.) (Refer to parts illustration of Handle Assembly.)

1. Remove the switch cover by removing two screws and lifting cover straight up.
2. The Roto main switch and Electro Valve switch are now exposed and can be replaced.
   Note: To avoid incorrectly connecting the wires on the new switch, hold the old and new switch side by side before disconnecting any wires. Disconnect one wire from the old switch, move it to the same terminal on the new switch, and connect it securely. Move the second wire from the old switch to the new switch, and so on.
3. Reverse the above procedure to re-assemble.
   Note: The tab extension on the front side of the cover fits inside the top of the handle tube. Take care not to damage the wire insulation when reassembling the cover.

B. SHUNT CORD OR STRAIN RELIEVER, REPLACE

(Disconnect from power source before making repairs.)
(Refer to parts illustration of Roto Handle Assembly.)

1. Remove the switch cover, as described in “A”.
2. Disconnect the wires from the shunt cord, noting their color and position on the switch.
   Note: The ground wire is connected to the grounding screw (8).
3. Loosen the conduit nut (35) and unscrew the strain reliever assembly (34) from the switch housing. You will have to pry the gripper teeth up to free the cord.
4. Reverse the procedure to assemble.

C. ELECTRO VALVE, DISASSEMBLY PROCEDURE
(Disconnect from power source before making repairs.)
(Refer to parts illustration of Electro Valve Assembly.)

1. Remove the nut on top of the Electro Valve and lift off the housing and coil together.
2. Unscrew and remove the sleeve assembly. The internal parts can now be lifted out. The seal slips off the end of the plunger for cleaning or replacement. Do not allow springs or washers to drop and become lost.
3. Inspect the valve seat for debris or scores which may call for a valve body replacement.
4. When reassembling, insure that the coil lead wires fit up inside the housing and are not pinched between the housing and body.

D. BUMPER, REPLACE
(Disconnect from power source before making repairs.)
(Refer to parts illustration of Roto Base Assembly.)

1. Remove original bumper by rolling it off the brush cover.
2. Install the new bumper in reverse manner on to the brush cover.
3. Attach the driving assembly or brush to the Roto and check to ensure that the block or brush clears.

E. MOTOR GEAR UNIT, REPLACE
(Disconnect from power source before making repairs.)
(Refer to parts illustration of Motor Parts.)

1. Remove switch housing and disconnect the motor cord from switch (black wire), ground (green wire), and wire nut (white wire). Unfasten the upper strain relief and pull the cord until it is free from the lower end of the handle.
2. Lay the roto upside down on the floor or bench, base up/
3. Remove the 4 screws and washers (29 and 11) that mount the motor (5) to the base of the roto.
4. Lift the roto off the base of the motor.
5. Reverse the above steps to replace the motor. Push the cord through the grommet from the lower end of the handle. Lubricate the cord if necessary.

NOTE: Repairs of the motor gear unit itself are usually not recommended unless the mechanic has had experience with these motors and gear cases.

We recommend referring the repair to a local service center or contact Aramark for the latest repair procedures.
For those who wish to repair motor gear units themselves, the illustrations in the Product Guide show the order of assembly quite clearly. On gearboxes, be certain to use the lubricants and sealers specified in the places spelled out in the parts list.

F. HANDLE ASSEMBLY REPLACEMENT
1. To remove a handle assembly, use a 7/16” drift pin to drive the pivot axle thru.
2. Assemble the new handle by driving the new pivot axle in reverse manner.

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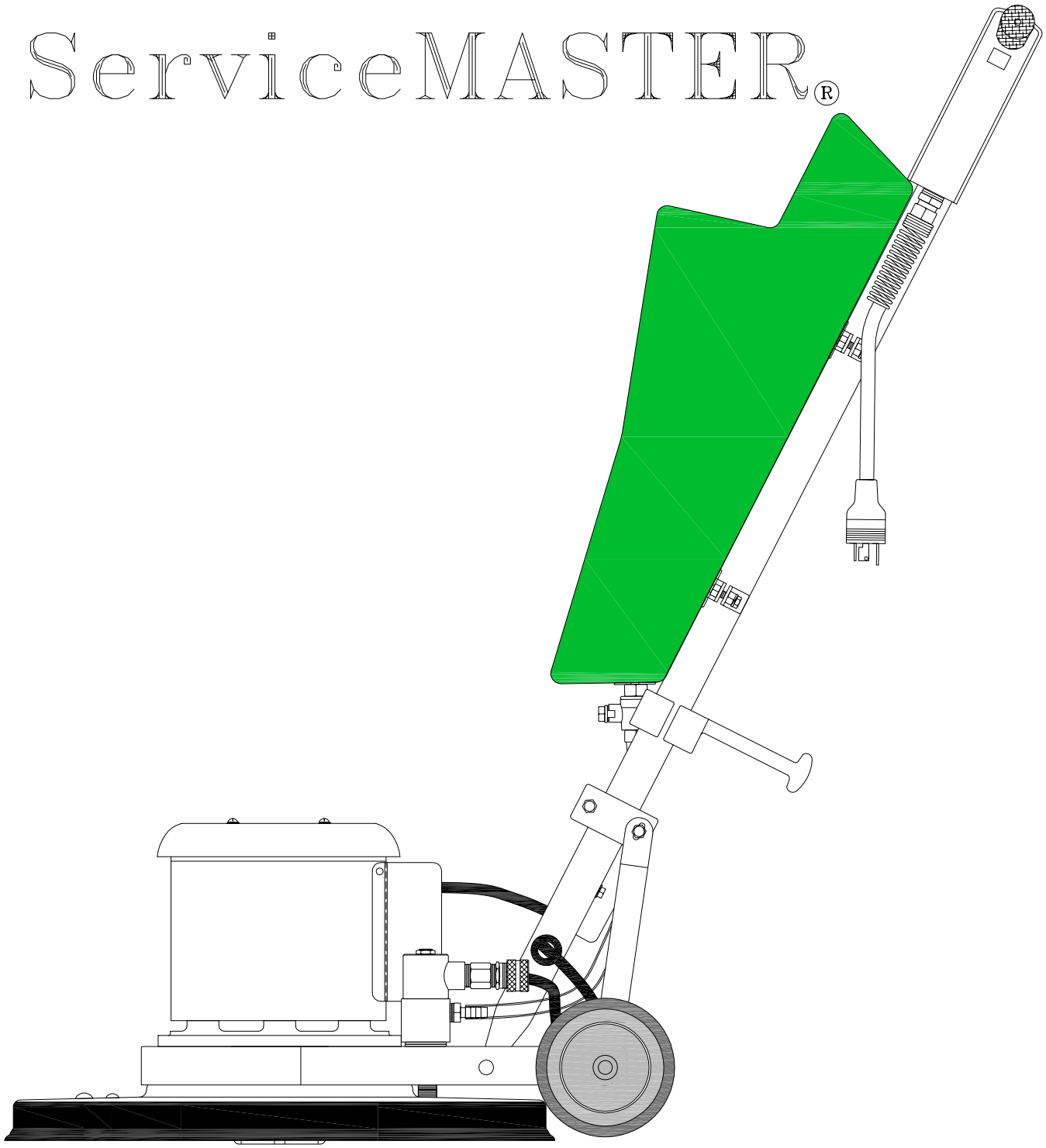

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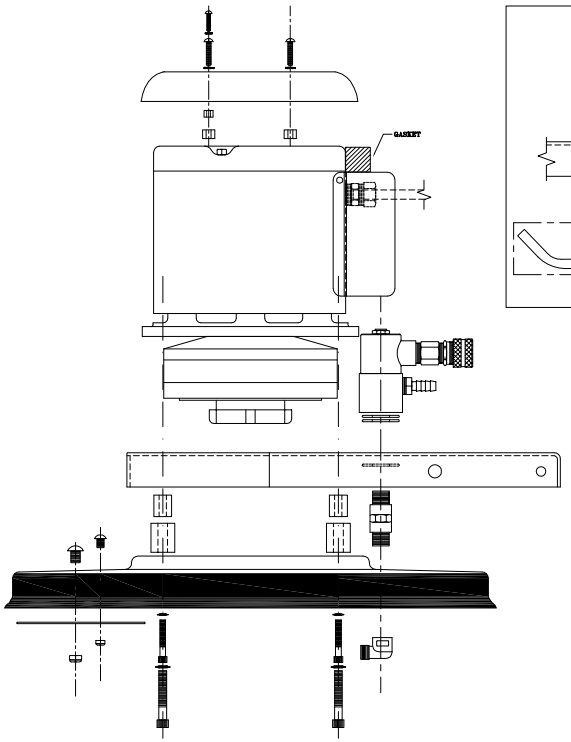
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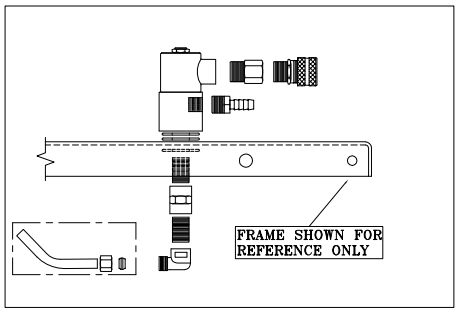
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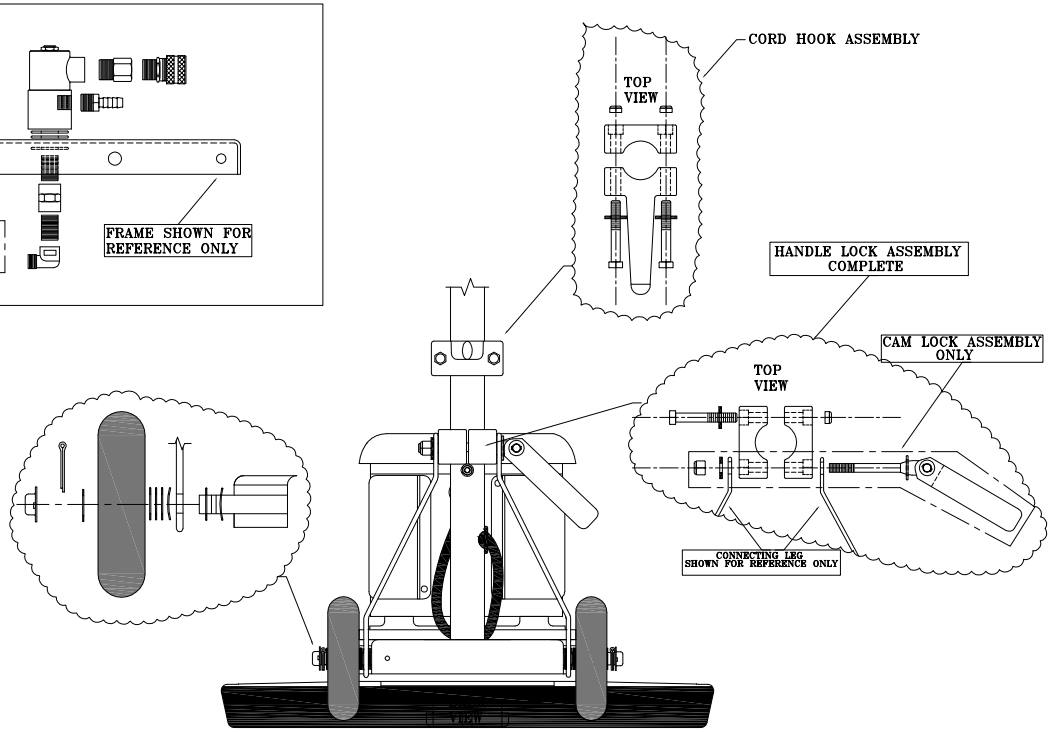
CORD HOOK ASSEMBLY
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HANDLE LOCK ASSEMBLY
COMPLETE
CAM LOCK ASSEMBLY
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CONNECTING LEG
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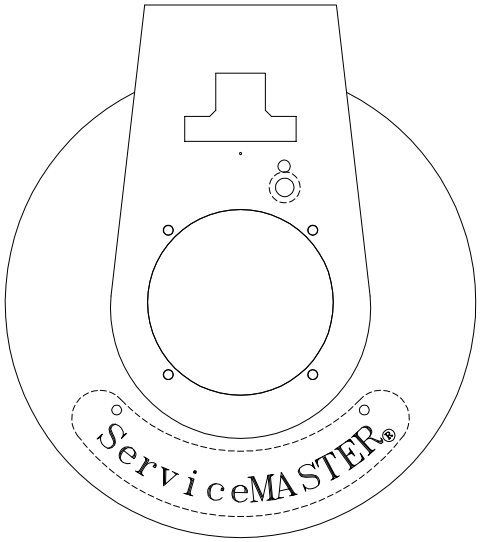
BACK
VIEW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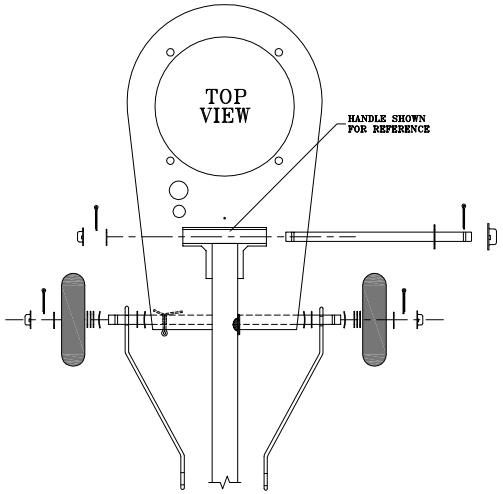
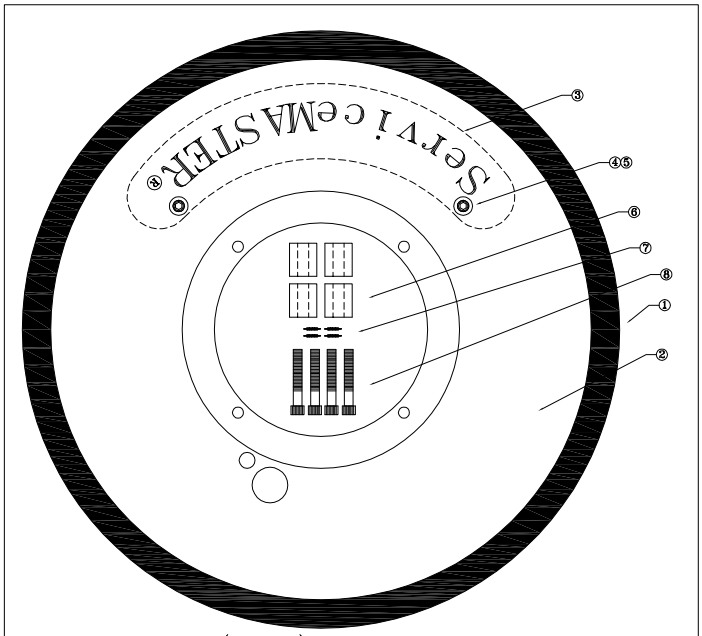

TOP
VIEW
HANDLE SHOWN
FOR REFERENCE



BUMPER BLK ONLY (KIT2065)

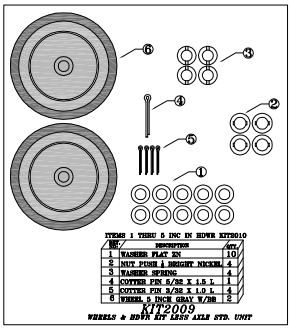
REF. NO.	DESCRIPTION	QTY.
1	BUMPER BLK	1
2	BRUSH COVER-SM CHROME	1
3	BACKING PLATE	1
4	SCREW SKT BTN HD	2
5	NUT 5/8-16 THNN	2
6	SPACER - BRUSH COVER	4
7	WASHER LOCK INT TOOTH	4
8	SCREW SKT CAP 5/16-18	4

BRUSH COVER KIT W/HDWR - SM
KIT3020-1SM

BUMPER BLK ONLY (KIT2064)

REF. NO.	DESCRIPTION	QTY.
1	BUMPER BLK	1
2	BRUSH COVER-SM CHROME	1
3	SPACER - BRUSH COVER	4
4	WASHER LOCK INT TOOTH	4
5	SCREW SKT CAP 5/16-18	4

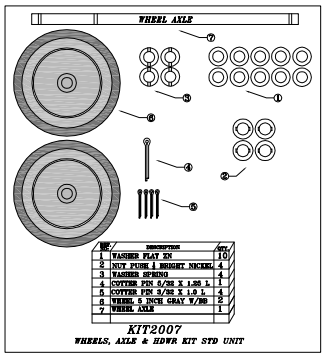
BRUSH COVER 17" KIT W/HDWR - SM
KIT3020-2SM



ITEMS 1 THRU 5 INC IN HDWR KIT2010

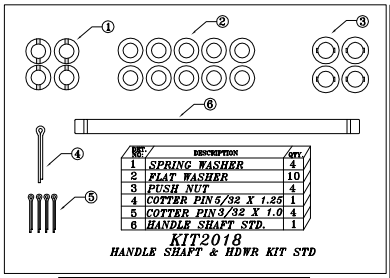
REF. NO.	DESCRIPTION	QTY.
1	WASHER FLAT ZN	10
2	NUT PUSH 1 BRIGHT NICKEL	4
3	WASHER SPRING	4
4	COTTER PIN 5/32 X 1.5 L	1
5	COTTER PIN 3/32 X 1.0 L	4
6	WHEEL 5 INCH GRAY W/BB	2

KIT2009
WHEELS & HDWR KIT LESS AXLE STD. UNIT



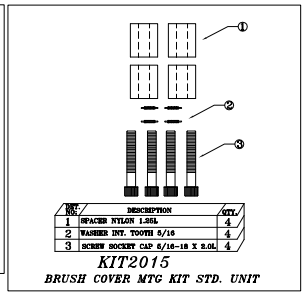
REF. NO.	DESCRIPTION	QTY.
1	WASHER FLAT ZN	10
2	NUT PUSH 1 BRIGHT NICKEL	4
3	WASHER SPRING	4
4	COTTER PIN 5/32 X 1.25 L	1
5	COTTER PIN 3/32 X 1.0 L	4
6	WHEEL 5 INCH GRAY W/BB	2
7	WHEEL AXLE	1

KIT2007
WHEELS, AXLE & HDWR KIT STD UNIT



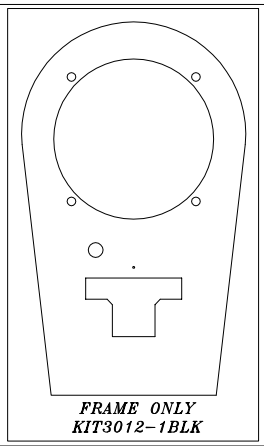
REF. NO.	DESCRIPTION	QTY.
1	SPRING WASHER	4
2	FLAT WASHER	10
3	PUSH NUT	4
4	COTTER PIN 5/32 X 1.25	1
5	COTTER PIN 3/32 X 1.0	4
6	HANDLE SHAFT STD.	1

KIT2018
HANDLE SHAFT & HDWR KIT STD

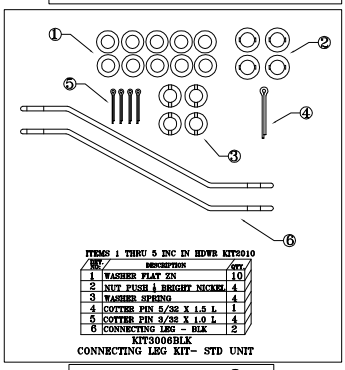


REF. NO.	DESCRIPTION	QTY.
1	SPACER NYLON 1.25L	4
2	WASHER INT. TOOTH 5/16	4
3	SCREW SOCKET CAP 5/16-18 X 2.0L	4

KIT2015
BRUSH COVER MTG KIT STD. UNIT



FRAME ONLY
KIT3012-1BLK

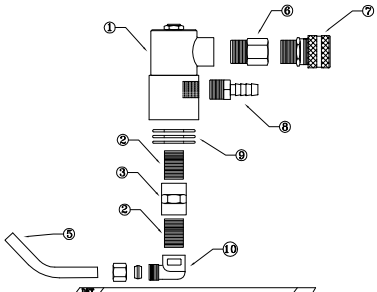


ITEMS 1 THRU 5 INC IN HDWR KIT2010

REF. NO.	DESCRIPTION	QTY.
1	WASHER FLAT ZN	10
2	NUT PUSH 1 BRIGHT NICKEL	4
3	WASHER SPRING	4
4	COTTER PIN 5/32 X 1.5 L	1
5	COTTER PIN 3/32 X 1.0 L	4
6	CONNECTING LEG - BLK	2

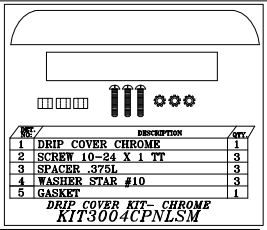
KIT3006BLK
CONNECTING LEG KIT- STD UNIT

NOTE:
USE TEFLON TAPE ON ALL THREADS



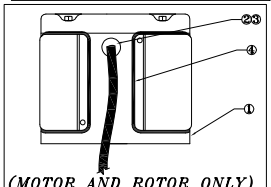
REF. NO.	DESCRIPTION	QTY.
1	ELECTRO VALVE 115/60 W/SOLENOID	1
2	NIPPLE (SS)	2
3	COUPLING	1
4	NOT USED	
5	SOLUTION TUBE (COPPER)	1
6	ADAPTOR	1
7	STRAIN RELIEF WATER TIGHT	1
8	HOSE BARB (BRASS)	1
9	WASHER FLAT	3
10	COMPRESSION FITTING	1

ELECTRO VALVE ASSEMBLY 115/60
KIT1062SM



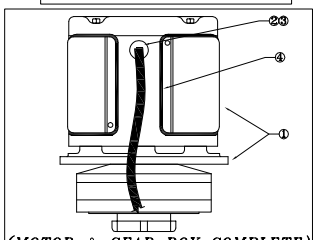
REF. NO.	DESCRIPTION	QTY.
1	DRIP COVER CHROME	1
2	SCREW 10-24 X 1 TT	3
3	SPACER .375L	3
4	WASHER STAR #10	3
5	GASKET	1

DRIP COVER KIT- CHROME
KIT3004CPNLSM



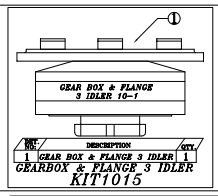
REF. NO.	DESCRIPTION	QTY.
1	MOTOR CHOME OPEN 115/230 60hz	1
2	STRAIN RELIEF (WATER TIGHT)	1
3	NUT STRAIN RELIEF (WATER TIGHT)	1
4	GASKET (CAPACITOR COVER)	2

MOTOR CHROME1.5HP ONLY 115/230 60hz
KIT1011CRMSM



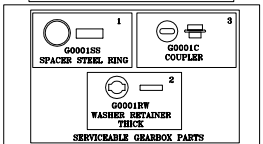
REF. NO.	DESCRIPTION	QTY.
1	MOTOR CHOME OPEN 115/230 60hz	1
2	STRAIN RELIEF (WATER TIGHT)	1
3	NUT STRAIN RELIEF (WATER TIGHT)	1
4	GASKET (CAPACITOR COVER)	2

MOTOR CHROME1.5HP & GEAR BOX 115/230 60hz
KIT1012CRMSM



REF. NO.	DESCRIPTION	QTY.
1	GEAR BOX & FLANGE 3 IDLER	1

GEARBOX & FLANGE 3 IDLER
KIT1015

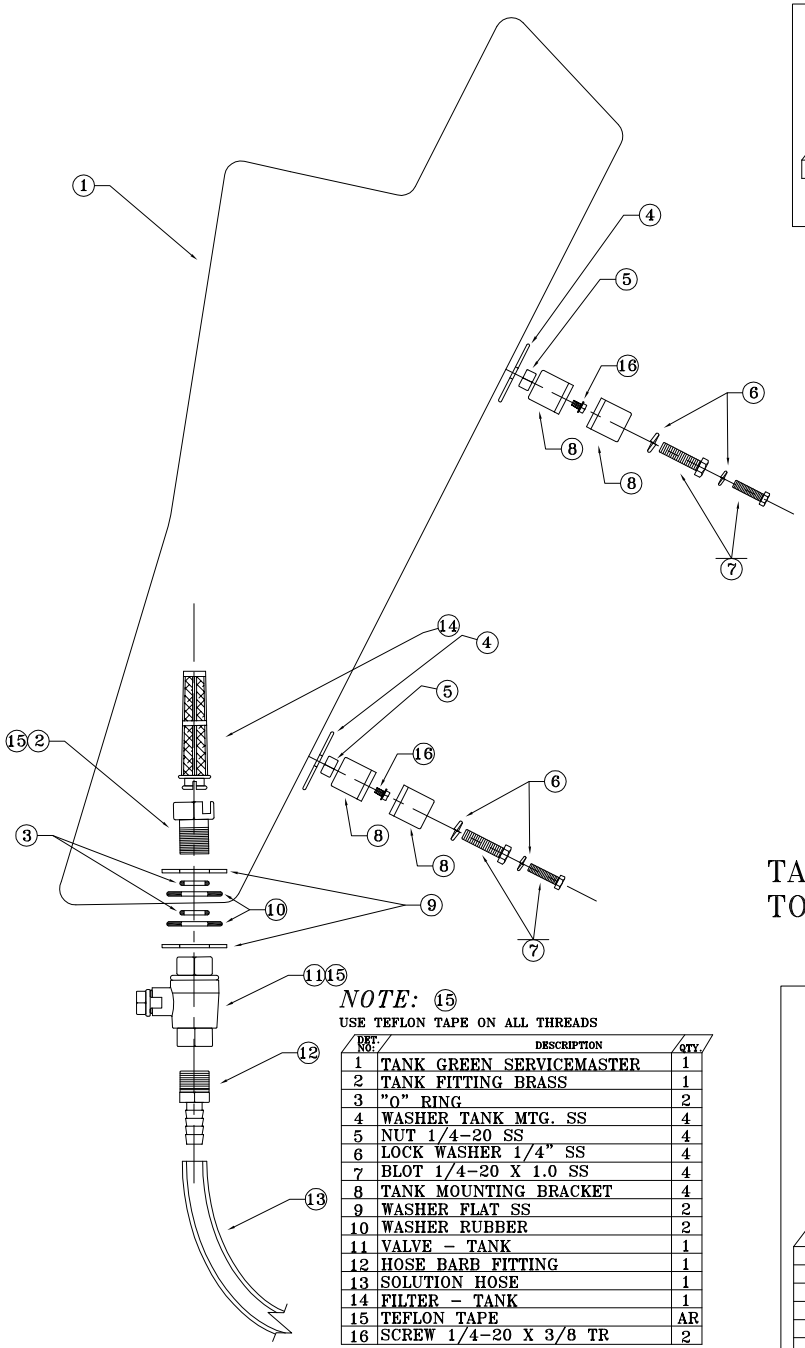


SERVICEABLE GEARBOX PARTS

REF. NO.	DESCRIPTION	QTY.
1	SPACER STEEL RING	1
2	WASHER RETAINER THICK	1
3	COUPLER - STANDARD GEARBOX	1

COUPLER KIT - STANDARD GEARBOX
KIT2090

09/2017



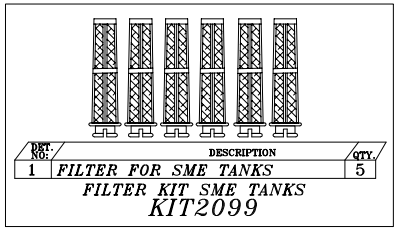
NOTE: (15)

USE TEFLON TAPE ON ALL THREADS

DET. NO:	DESCRIPTION	QTY.
1	TANK GREEN SERVICEMASTER	1
2	TANK FITTING BRASS	1
3	"O" RING	2
4	WASHER TANK MTG. SS	4
5	NUT 1/4-20 SS	4
6	LOCK WASHER 1/4" SS	4
7	BLOT 1/4-20 X 1.0 SS	4
8	TANK MOUNTING BRACKET	4
9	WASHER FLAT SS	2
10	WASHER RUBBER	2
11	VALVE - TANK	1
12	HOSE BARB FITTING	1
13	SOLUTION HOSE	1
14	FILTER - TANK	1
15	TEFLON TAPE	AR
16	SCREW 1/4-20 X 3/8 TR	2

TANK ASSEMBLY - SERVICEMASTER

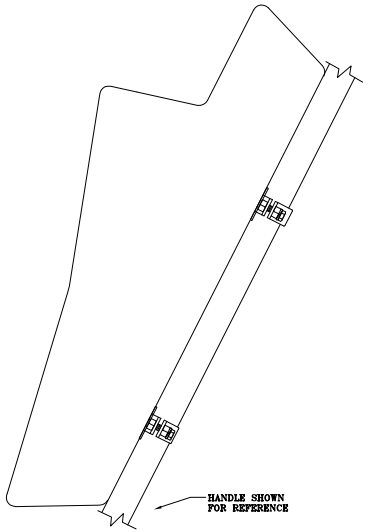
KIT2098SM



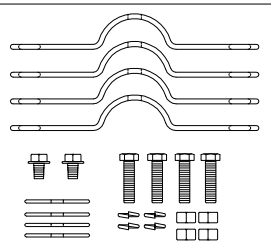
DET. NO:	DESCRIPTION	QTY.
1	*FILTER FOR SME TANKS*	5

FILTER KIT SME TANKS

KIT2099



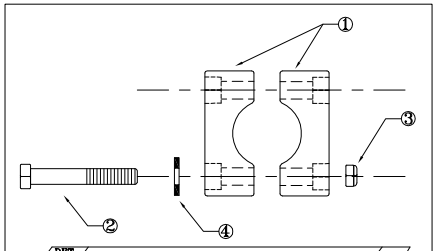
TANK MOUNTING
TO HANDLE



DET. NO:	DESCRIPTION	QTY.
1	BRACKET - TANK MOUNTING	4
2	SCREW 1/4-20 X 3/8 TR	2
3	BLOT 1/4-20 X 1.0 SS	4
4	WASHER TANK MTG, SS	4
5	LOCK WASHER 1/4" SS	4
6	NUT 1/4-20 SS	4

TANK MTG. KIT - FOR SME TANKS

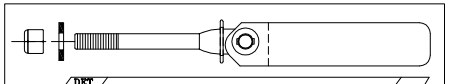
KIT2083



DET. NO:	DESCRIPTION	QTY.
1	CAP HANDLE LOCK - BLK	2
2	BOLT .375-16 X 2.5L GR8	1
3	NUT 375-16 THN NYLOC	1
4	WASHER FLAT .375 BLK	1

CAP - CAP KIT BLK

KIT3001BLK

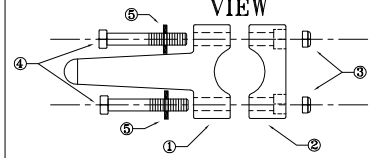


DET. NO:	DESCRIPTION	QTY.
1	CAM LOCK ASSEMBLY - BLK	1
2	WASHER FLAT BLK OXIDE 3/8	1
3	NUT HEX NYLCK BLK ZC 3/8 X 16	1

CAM LOCK ASSY - BLACK

KIT3000BLK

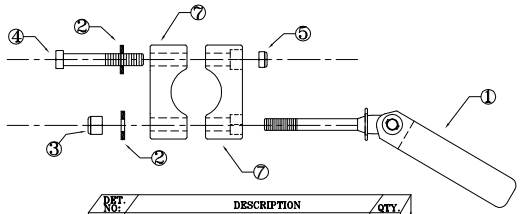
TOP
VIEW



DET. NO:	DESCRIPTION	QTY.
1	CORD HOOK BLK	1
2	CORD HOOK CAP BLK	1
3	NUT NYLOC .375-16 ZN	2
4	BOLT .375-16 X2.0L GR8 BLK	2
5	WASHER .375 FLAT BLK	2

CORD HOOK BODY AND CAP ASSY

KIT3009BLK

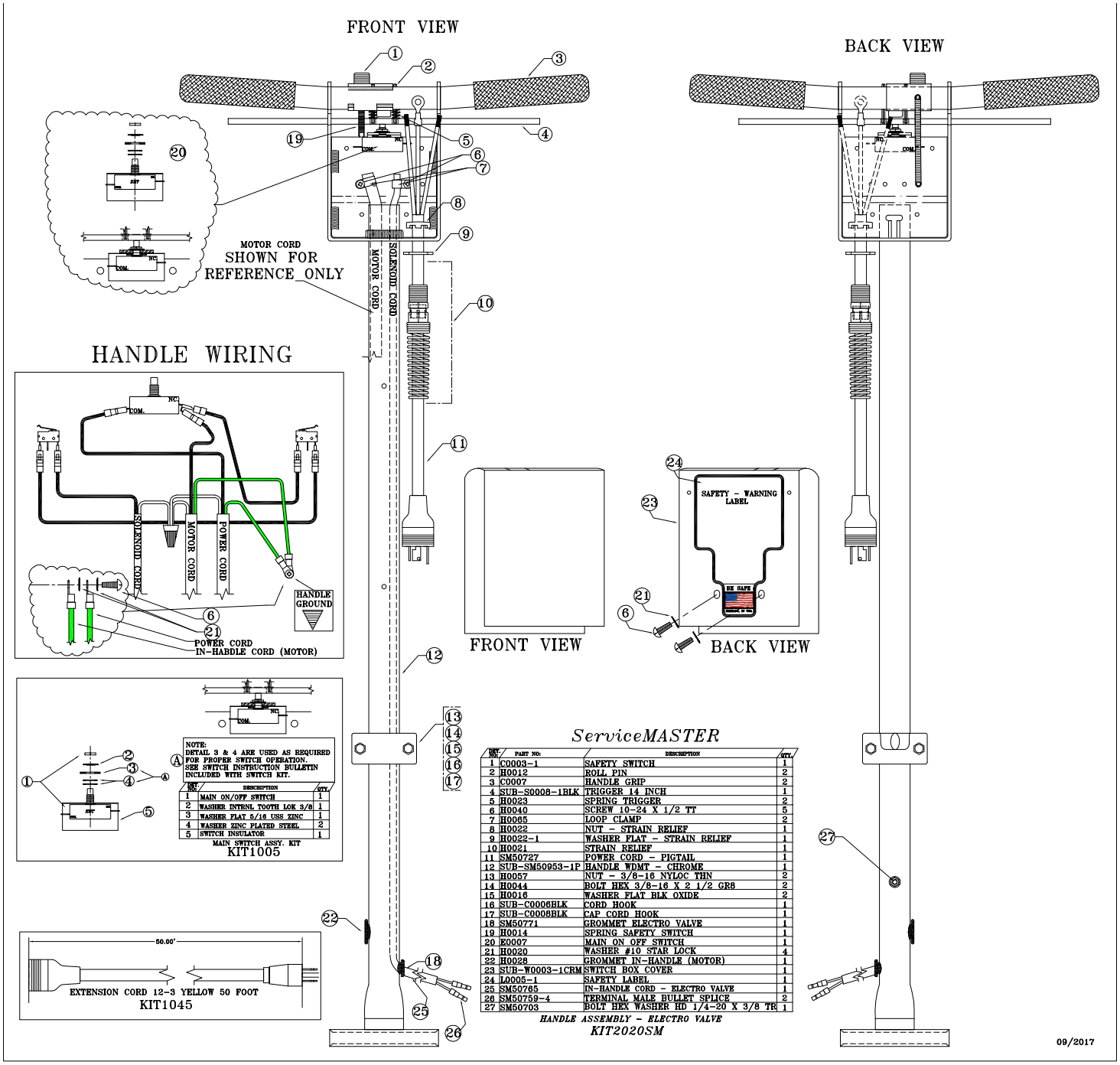


DET. NO:	DESCRIPTION	QTY.
1	HANDLE LOCK CAM BLACK	1
2	WASHER FLAT BLK OXIDE 3/8	2
3	NUT HEX NYLCK BLK ZC 3/8 X 16	1
4	BOLT 3/8- 16X2-1/2H.C.S.GR8 BL	1
5	NUT LOCK THN FLEX .375-16-ZNC	1
6	NOT USED	
7	CORD HOOK CAP / HDL LOCK CLAMP	2

CAP / CAP HANDLE LOCK W/CAM LOCK ASSY BLK

KIT3014

09/2017



ITEM NO.	PART NO:	DESCRIPTION	QTY.
1	C0003-1	SAFETY SWITCH	1
2	H0012	ROLL PIN	2
3	C0007	HANDLE GRIP	2
4	SUB-S0008-1BLK	TRIGGER 14 INCH	1
5	H0023	SPRING TRIGGER	2
6	H0040	SCREW 10-24 X 1/2 TT	5
7	H0065	LOOP CLAMP	2
8	H0022	NUT - STRAIN RELIEF	1
9	H0022-1	WASHER FLAT - STRAIN RELIEF	1
10	H0021	STRAIN RELIEF	1
11	SM50727	POWER CORD - PIGTAIL	1
12	SUB-SM50953-1P	HANDLE WDMT - CHROME	1
13	H0057	NUT - 3/8-16 NYLOC THN	2
14	H0044	BOLT HEX 3/8-16 X 2 1/2 GR8	2
15	H0016	WASHER FLAT BLK OXIDE	2
16	SUB-C0006BLK	CORD HOOK	1
17	SUB-C0008BLK	CAP CORD HOOK	1
18	SM50771	GROMMET ELECTRO VALVE	1
19	H0014	SPRING SAFETY SWITCH	1
20	E0007	MAIN ON OFF SWITCH	1
21	H0020	WASHER #10 STAR LOCK	4
22	H0028	GROMMET IN-HANDLE (MOTOR)	1
23	SUB-W0003-1CRM	SWITCH BOX COVER	1
24	L0005-1	SAFETY LABEL	1
25	SM50765	IN-HANDLE CORD - ELECTRO VALVE	1
26	SM50759-4	TERMINAL MALE BULLET SPLICE	2
27	SM50703	BOLT HEX WASHER HD 1/4-20 X 3/8 TR	1

ITEM NO.	PART NO:	DESCRIPTION	QTY.
1	H0044	MAIN ON/OFF SWITCH	1
2	H0016	WASHER INTRNL TOOTH LOK 3/8	1
3	H0021	WASHER FLAT 5/16 USS ZINC	1
4	H0022	WASHER ZINC PLATED STEEL	2
5	H0023	SWITCH INSULATOR	1

WARRANTY
Electro Roto

WARRANTY

The Manufacturer warrants that this Electro Roto has been thoroughly inspected and tested, and found to be free of defects in workmanship or materials, and guarantees to repair or replace free of charge (FOB Repair Center Dock) any part or parts proven defective within one year from the date of purchase by the end-user. Ordinary wear, accident, or misuse, are expressly excepted. Do not pick up hard or metallic objects which may damage unit and void warranty. This warranty does not cover normal wear parts such as cord, gaskets, switches, bumpers, carbon brushes, bags, hoses, belts, etc. Warranty to include labor, in - bound and out-bound freight charges. **EXCEPT AS TO TITLE AND MERCHANTABILITY, THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. IN NO EVENT SHALL THE SERVICE-MASTER COMPANY BE LIABLE FOR CONSEQUENTIAL DAMAGES.**

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