SECTION 3: PREVENTATIVE MAINTENANCE

SECTION 3: PREVENTATIVE MAINTENANCE PREVENTATIVE MAINTENANCE

The dishmachines covered in this manual are designed to operate with a minimum of interaction with the operator. However, this does not mean that some items will not wear out in time. Jackson highly recommends that any maintenance and repairs not specifically discussed in this manual should be performed by QUALIFIED SERVICE PERSONNEL ONLY. Performing maintenance on your dishmachine may void your warranty if it is still in effect, so if you have a question or concern, do not hesitate to contact one of the QUALIFIED SERVICE AGENCIES listed in the back of this manual.

There are many things that operators can do to prevent catastrophic damage to the dishmachine. One of the major causes of component failure has to do with prescrapping procedures. A dishmachine is not a garbage disposal; any large pieces of material that are put into the machine shall remain in the machine until they are either broken up (after spreading out on your ware!) or physically removed. Strainers are installed to help catch debris, but they do no good of they are clogged. Have operators regularly inspect the pan strainers to ensure (1) that they are free of soil and debris and (2) they are laying flat in the tub.

When cleaning out strainers, do NOT beat them on waste cans. The strainers are made of metal and can be forgiving; but once severe damage is done, it is next to impossible for the strainer to work in the way it was designed to. Wipe out strainers with a rag and rinse under a faucet if necessary. For stubborn debris, a toothpick should be able to dislodge any obstructions from the perforations. Always ensure that strainers are placed back in the machine before operation and that they lay flat in the tub.

You may wish to learn more about how your water hardness will effect the performance of your machine. Hard water makes dishmachines work harder and decreases efficiency.

Again, it is important to remind operators that trying to perform corrective maintenance on the dishmachine could lead to larger problems or even cause harm to the operator. If a problem is discovered; secure the dishmachine using proper shut down procedures as listed in this manual and contact a QUALIFIED SERVICE AGENCY.

Some problems, however, may having nothing to do with the machine itself and no amount of preventative maintanence is going to help. A common problem has to do with temperatures being too low. Verify that the water temperatures coming to your dishmachine match the requirements listed on the machine data plate. There can be a variety of reasons why your water temperature could be too low and you should discuss it with a QUALIFIED SERVICE AGENCY to determine what can be done.

By following the operating and cleaning instructions in this manual, you should get the most efficient results from your machine. As a reminder, here are some steps to take to ensure that you are using the dishmachine the way it was designed to work:

- 1. Ensure that the water temperatures match those listed on the machine data plate.
- 2. Ensure that all strainers are in place before operating the machine.
- 3. Ensure that all wash and/or rinse arms are secure in the machine before operating.
- 4. Ensure that drains are closed/sealed before operating.
- 5. Remove as much soil from dishes by hand as possible before loading into racks.

6. Do not overfill racks.

- 7. Ensure that glasses are placed upside down in the rack.
- 8. Ensure that all chemicals being injected to machine have been verified as being at the correct concentrations.
- 9. Clean out the machine at the end of every workday as per the instructions in the manual.
- 10. Always contact a QUALIFIED SERVICE AGENCY whenever a serious problem arises.
- 11. Follow all safety procedures, whether listed in this manual or put forth by local, state or national codes/regulations.

SECTION 4: TROUBLESHOOTING SECTION

COMMON PROBLEMS (DOMESTIC UNITS)

WARNING: Inspection, testing and repair of electrical equipment should be performed only by qualified service personnel. Certain procedures in this section require electrical tests or measurements while power is applied to the machine. **Exercise extreme caution at all times.** If test points are not easily accessible, disconnect power, attach test equipment and reapply power to test. When replacing electrical parts, disconnect power at source circuit breaker.

Problem: Dishmachine will not run, no voltage at wash relay terminals L1 and T1.

- 1. Service disconnect switch off or faulty. Turn disconnect on.
- 2. Branch circuit breaker tripped/fuse blown. Reset or replace.
- 3. Loose or broken connection to dishmachine. Tighten or replace connections.

Problem: Machine will not run in "ON" position unless cam timer is moved off the "home" position.

1. Door switch shorted out. With the door open, check for voltage between ORANGE/WHITE door switch and neutral. If 120V, replace the door switch.

2. Faulty control relay. With the door open, check for voltage between connections #9 & #3 on control relay. If 120V, replace control relay.

3. Faulty "cycle reset" microswitch in cam timer. Replace microswitch.

Problem: Machine will not cycle in "ON" position, works in Delime mode.

1. Faulty cycle reset cam microswitch. With the switch in the Normal position, rotate the cams manually off the home position. Check the voltage between the ORANGE and BLACK/WHITE wires on the cycle reset switch. If it is 120V, then the switch is open and should be replaced.

2. Faulty cam timer motor. If cam timer is not rotating, check the voltage to the motor. If voltage is present when the door is closed, replace the motor.

3. Faulty control relay. Check the voltage across contacts #9 and #6. If 120V when the door is closed, replace the relay.

4. Faulty NORMAL/DELIME switch. In the NORMAL position, check the voltage between WHITE/BLACK & WHITE/RED wires to switch. If 120V, replace the switch.

Problem: Machine will not run. Wash pump motor will run if wash relay is depressed manually (nothing else works).

1. Open door switch. With door closed, measure voltage between BLUE and WHITE/BLACK wires on terminals #6 & #9 of the relay. If 120V, replace the relay.

2. Faulty control relay. Measure between the BLACK wires on terminals #6 & #9 of the relay. If 120V, replace the relay. Measure between the WHITE/ BLACK wire on terminal 4 and the ORANGE/WHITE wire on terminal 7 of the relay. If 120V, replace relay.

Problem: Machine will not run in "ON" position or in Delime mode.

1. Faulty door switch. With door closed, check for voltage between WHITE/BLACK and ORANGE/WHITE wires to the door switch. If 120V, replace open switch.

2. Faulty OFF/ON/FILL switch. With switch ON, check voltage between BLACK and WHITE/BLACK wires on switch. Replace the switch if 120V.

3. Faulty NORMAL/DELIME switch. In the NORMAL position, check the voltage between WHITE/BLACK & WHITE/RED wires to switch. If 120V, replace the switch.

Problem: Machine cycles continuously.

1. Cycle reset switch loose. Reposition switch assembly, bend metal lever if necessary.

2. Faulty cycle reset switch. Measure between BLACK/YELLOW & ORANGE wires on "cycle reset" switch while timer is rotating. As the switch lever drops into home position you should measure 120V. If not, adjust or replace the switch.

Problem: Machine fills continuously even with no power applied to machine.

1. Solenoid valve dirty or faulty. Clean valve, replace plunger and/or diaphragm.

COMMON PROBLEMS (DOMESTIC UNITS)

Problem: Machine will not fill, other functions work.

- 1. Y-strainer plugged. Clean strainer.
- 2. Water valve(s) turned off. Turn on water valves.
- 3. Faulty solenoid valve diaphragm. Replace diaphragm, clean foreign material out of valve body and orifices.

4. Faulty solenoid coil. If coil has voltage but no continuity, replace coil (continuity is measured across coil connectors with wires removed).

5. Faulty fill microswitch. Will not fill during cycle only. During fill, measure between the ORANGE and WHITE/GREEN wires. If 120V, adjust or replace switch).

6. Faulty OFF/ON/FILL switch. Depress switch, measure between BLACK and WHITE/GREEN wire. If 120V, replace switch.

Problem: Machine fills continuously, only when the power is on.

1. Faulty fill microswitch. Repair/replace switch.

2. Cam timer stalled in fill position. If cam timer is not rotating, check the voltage to the timer motor. If 120V when door is closed, replace the timer motor.

3. Shorted OFF/ON/FILL switch. Check voltage between BLACK and WHITE/GREEN connections of the switch in the "ON" position. If you do not read 120V, replace switch.

Problem: Wash motor does not run, other functions work, motor runs only when the wash relay is manually pushed down.

1. Loose wire connection to microswitch, relay, or contactor. Tighten wires.

2. Faulty wash cam microswitch. During wash cycle, check voltage between ORANGE and BLACK/ ORANGE wires on the microswitch. If 120V, replace the switch.

3. Faulty delime switch. During wash cycle, check the voltage between the two BLACK/ORANGE wires (not jumpers). If 120V, replace the delime switch.

Problem: Wash motor does not run, other functions work, motor runs only when the wash relay is manually pushed down.

1. Faulty control relay. Check the voltage across relay contacts #7 & #4. If 120V during the wash cycle, replace the relay.

2. Faulty wash relay. Check voltage at relay coil between ORANGE/BLACK and WHITE wires. If you read 120V, coil is faulty. Replace the relay.

Problem: Wash motor does not run even when the wash relay is manually depressed; other functions work.

1. Loose wire connections to motor, delime switch, or from contactors. Tighten wires.

2. Mechanical binding in pump. If motor has correct incoming voltage, and its overload is tripping, repair or replace the pump.

3. Mechanical binding in pump. On end of motor, opposite pump, remove endcap. With large slot type screwdriver, fit into slot in end of shaft. Turn to dislodge. Run motor as normal. If it still does not run, replace motor.

4. Faulty wash motor. If the motor has the correct incoming voltage and the pump is okay, replace the motor.

5. Faulty wash relay. With the wash relay pushed in, check the voltage between T1 and L1 of the relay. If 120V, replace the relays.

6. High or low voltage problem. Check voltage at motor and at power terminal block. Compare to electrical specifications.

Problem: Wash motor runs continuously.

- 1. The NORMAL/DELIME switch is in the Delime position. Place the switch in the Normal position.
- 2. Wash relay contacts are welded closed. Turn machine off. If wash relay doesn't release, replace contactor.

3. Cam timer stalled in wash or rinse cycle. If cam timer is not rotating, check the voltage to the timer motor. If no voltage when the door is closed, check wires and/or replace motor.

4. Wash motor microswitch faulty. Tighten connections, make sure switch makes contact, replace if necessary.

Problem: Machine will not hold water.

- 1. Faulty drain ball. Replace drain ball.
- 2. Obstructed drain hole. Clear obstruction.
- 3. Drain linkage is binding. Repair drain mechanism parts.

SECTION 4: TROUBLESHOOTING COMMON PROBLEMS (DOMESTIC UNITS)

Problem: Machine runs with door open.

1. Door switch shorted. With machine off, open doors, and with both wires to door switch unplugged, measure continuity between wires on switch. If there is continuity, replace the switch.

Faulty wash relay (wash relay contacts welded closed). Turn machine off, if wash relay doesn't release, replace contactor.
 Faulty control relay. With power off, remove WHITE/RED & BLACK/YELLOW wires from control relay terminals #9 & #6. If there is continuity, replace relay.

Problem: Low pumped water pressure.

1. Water level is too low. Increase fill time on cam timer, or decrease drain timer, or increase incoming water pressure.

- 2. Sump strainer clogged. Clean strainer.
- 3. Wash arms clogged. Clean arms and jets.

4. Obstruction in pump housing or wash manifold. Disassemble and clear.

5. Pump impeller worn or broken. Replace the pump impeller.

Problem: Sanitizer pump doesn't run during the cycle or through the use of the prime switch.

1. Loose motor terminal wire. Tighten connections.

2. Faulty sanitizer pump motor. If you read 120V at the sanitizer motor terminals during the sanitizer feed cycle, replace the motor.

Problem: Machine keeps tripping the service breaker.

1. Power supply shorted to ground. Check for loose wires or burned connections.

2. Faulty door switch or detergent safety switch. Check for loose or wet connections at switch and at wire connectors. Bypass switch to verify that switch is problem; replace if required.

3. Pump impeller jammed. Clear impeller.

- 4. Wash pump motor faulty. Check motor voltage and amp load. If amp load is over 12 amps, replace the motor.
- 5. Circuit breaker is too small. Replace with properly sized breaker. Refer to the data plate.

Problem: Machine will not drain.

- 1. Loose wire connection. Tighten wires to timer drain microswitch.
- 2. Drain hole/strainer obstructed. Clear obstructions.
- 3. Not enough time to drain. Adjust fill cam on timer and/or the drain cam.
- 4. Drain linkage binding. Repair drain parts.

5. Faulty drain microswitch on timer. With power off and the drain cam on the timer in the home position, remove the WHITE/YELLOW wire from the microswitch.

6. Faulty drain microswitch on timer. Measure the continuity between the ORANGE wire on the microswitch and the tab that the WHITE/ YELLOW wire is attached onto. If there is no continuity, replace the microswitch.

7. Drain solenoid defective. Check for voltage at solenoid valve during the drain cycle. Replace if voltage is present.

Problem: Sanitizer pump runs continuously.

1. Shorted sanitizer microswitch on cam timer. If there is not 120V between the ORANGE and GREY wires on the sanitization pump motor microswitch when switch is out of the home position, replace the switch.

2. Shorted prime switch. If there is not 120 volts between GREY and WHITE/RED wires to prime switch, replace the switch. Sanitizer pump does not run during the cycle, but runs when primed.

3. Loose or broken wire. Tighten connections to microswitch.

4. Faulty sanitizer microswitch on cam timer. When sanitizer cam is in home position, measure voltage between ORANGE and GREY wires on the microswitch. If 120V, replace switch.

SECTION 4: TROUBLESHOOTING COMMON PROBLEMS (DOMESTIC UNITS)

Problem: Prime switch does not activate sanitizer pump.

1. Faulty prime switch. With the prime switch in the prime position, check for voltage between the GREY and WHITE/RED wires to switch. If 120V, replace the switch.

2. Faulty delime switch. With the delime switch in the DELIME position, check for voltage between the WHITE/BLACK and WHITE/RED wires to the delime switch. If 120V, replace the delime switch.

Problem: Detergent not feeding; rinse aid feeds okay.

1. Misadjusted cam. Adjust detergent cam on cam timer.

2. Faulty detergent microswitch on cam timer. When the detergent cam is in the home position, measure voltage between ORANGE and GREY/ WHITE wires. If 120V, replace the microswitch.

Problem: Rinse aid not feeding, detergent feeds okay.

1. Misadjusted cam. Adjust rinse aid cam on cam timer.

2. Faulty rinse aid microswitch on cam timer. When the rinse aid cam is in the home position, measure the voltage between the ORANGE and ORANGE/YELLOW wires. If 120V, replace the microswitch.

Problem: Sanitizer pump does not run during the cycle, but runs when primed.

1. Loose or broken wire. Tighten connections to microswitch.

2. Faulty sanitizer microswitch on cam timer. When sanitizer cam is in home position, measure voltage between ORANGE and GREY wires on the microswitch. If 120V, replace switch.

COMMON PROBLEMS (EXPORT UNITS)

WARNING: Inspection, testing and repair of electrical equipment should be performed only by qualified service personnel. Certain procedures in this section require electrical tests or measurements while power is applied to the machine. **Exercise extreme caution at all times.** If test points are not easily accessible, disconnect power, attach test equipment and reapply power to test. When replacing electrical parts, disconnect power at source circuit breaker.

Problem: Dishmachine will not run, no voltage at wash relay terminals L1 and T1.

- 1. Service disconnect switch off or faulty. Turn disconnect on.
- 2. Branch circuit breaker tripped/fuse blown. Reset or replace.
- 3. Loose or broken connection to dishmachine. Tighten or replace connections.

Problem: Machine will not run in "ON" position unless cam timer is moved off the "home" position.

1. Door switch shorted out. With the door open, check for voltage between ORANGE/WHITE door switch and neutral. If 220V, replace the door switch.

2. Faulty control relay. With the door open, check for voltage between connections #9 & #3 on control relay. If 220V, replace control relay.

3. Faulty "cycle reset" microswitch in cam timer. Replace microswitch.

Problem: Machine will not cycle in "ON" position, works in Delime mode.

1. Faulty cycle reset cam microswitch. With the switch in the Normal position, rotate the cams manually off the home position. Check the voltage between the ORANGE and BLACK/WHITE wires on the cycle reset switch. If it is 220V, then the switch is open and should be replaced.

2. Faulty cam timer motor. If cam timer is not rotating, check the voltage to the motor. If voltage is present when the door is closed, replace the motor.

3. Faulty control relay. Check the voltage across contacts #9 and #6. If 220V when the door is closed, replace the relay.

4. Faulty NORMAL/DELIME switch. In the NORMAL position, check the voltage between WHITE/BLACK & WHITE/RED wires to switch. If 220V, replace the switch.

Problem: Machine will not run. Wash pump motor will run if wash relay is depressed manually (nothing else works).

1. Open door switch. With door closed, measure voltage between BLUE and WHITE/BLACK wires on terminals #6 & #9 of the relay. If 120V, replace the relay.

2. Faulty control relay. Measure between the BLACK wires on terminals #6 & #9 of the relay. If 220V, replace the relay. Measure between the WHITE/ BLACK wire on terminal 4 and the ORANGE/WHITE wire on terminal 7 of the relay. If 220V, replace relay.

Problem: Machine will not run in "ON" position or in Delime mode.

1. Faulty door switch. With door closed, check for voltage between WHITE/BLACK and ORANGE/WHITE wires to the door switch. If 220V, replace open switch.

2. Faulty OFF/ON/FILL switch. With switch ON, check voltage between BLACK and WHITE/BLACK wires on switch. Replace the switch if 220V.

3. Faulty NORMAL/DELIME switch. In the NORMAL position, check the voltage between WHITE/BLACK & WHITE/RED wires to switch. If 220V, replace the switch.

Problem: Machine cycles continuously.

1. Cycle reset switch loose. Reposition switch assembly, bend metal lever if necessary.

2. Faulty cycle reset switch. Measure between BLACK/YELLOW & ORANGE wires on "cycle reset" switch while timer is rotating. As the switch lever drops into home position you should measure 220V. If not, adjust or replace the switch.

Problem: Machine fills continuously even with no power applied to machine.

1. Solenoid valve dirty or faulty. Clean valve, replace plunger and/or diaphragm.

COMMON PROBLEMS (EXPORT UNITS)

Problem: Machine will not fill, other functions work.

- 1. Y-strainer plugged. Clean strainer.
- 2. Water valve(s) turned off. Turn on water valves.
- 3. Faulty solenoid valve diaphragm. Replace diaphragm, clean foreign material out of valve body and orifices.

4. Faulty solenoid coil. If coil has voltage but no continuity, replace coil (continuity is measured across coil connectors with wires removed).

5. Faulty fill microswitch. Will not fill during cycle only. During fill, measure between the ORANGE and WHITE/GREEN wires. If 220V, adjust or replace switch).

6. Faulty OFF/ON/FILL switch. Depress switch, measure between BLACK and WHITE/GREEN wire. If 220V, replace switch.

Problem: Machine fills continuously, only when the power is on.

1. Faulty fill microswitch. Repair/replace switch.

2. Cam timer stalled in fill position. If cam timer is not rotating, check the voltage to the timer motor. If 220V when door is closed, replace the timer motor.

3. Shorted OFF/ON/FILL switch. Check voltage between BLACK and WHITE/GREEN connections of the switch in the "ON" position. If you do not read 220V, replace switch.

Problem: Wash motor does not run, other functions work, motor runs only when the wash relay is manually pushed down.

1. Loose wire connection to microswitch, relay, or contactor. Tighten wires.

2. Faulty wash cam microswitch. During wash cycle, check voltage between ORANGE and BLACK/ORANGE wires on the microswitch. If 220V, replace the switch.

3. Faulty delime switch. During wash cycle, check the voltage between the two BLACK/ ORANGE wires (not jumpers). If 220V, replace the delime switch.

Problem: Wash motor does not run, other functions work, motor runs only when the wash relay is manually pushed down.

1. Faulty control relay. Check the voltage across relay contacts #7 & #4. If 220V during the wash cycle, replace the relay.

2. Faulty wash relay. Check voltage at relay coil between ORANGE/BLACK and WHITE wires. If you read 220V, coil is faulty. Replace the relay.

Problem: Wash motor does not run even when the wash relay is manually depressed; other functions work.

1. Loose wire connections to motor, delime switch, or from contactors. Tighten wires.

Mechanical binding in pump. If motor has correct incoming voltage, and its overload is tripping, repair or replace the pump.
 Mechanical binding in pump. On end of motor, opposite pump, remove endcap. With large slot type screwdriver, fit into slot in end of shaft. Turn to dislodge. Run motor as normal. If it still does not run, replace motor.

4. Faulty wash motor. If the motor has the correct incoming voltage and the pump is okay, replace the motor.

5. Faulty wash relay. With the wash relay pushed in, check the voltage between T1 and L1 of the relay. If 220V, replace the relays.

6. High or low voltage problem. Check voltage at motor and at power terminal block. Compare to electrical specifications.

Problem: Wash motor runs continuously.

1. The NORMAL/DELIME switch is in the Delime position. Place the switch in the Normal position.

2. Wash relay contacts are welded closed. Turn machine off. If wash relay doesn't release, replace contactor.

3. Cam timer stalled in wash or rinse cycle. If cam timer is not rotating, check the voltage to the timer motor. If no voltage when the door is closed, check wires and/or replace motor.

4. Wash motor microswitch faulty. Tighten connections, make sure switch makes contact, replace if necessary.

Problem: Sanitizer pump doesn't run during the cycle or through the use of the prime switch.

1. Loose motor terminal wire. Tighten connections.

2. Faulty sanitizer pump motor. If you read 220V at the sanitizer motor terminals during the sanitizer feed cycle, replace the motor.

COMMON PROBLEMS (EXPORT UNITS)

Problem: Machine runs with door open.

1. Door switch shorted. With machine off, open doors, and with both wires to door switch unplugged, measure continuity between wires on switch. If there is continuity, replace the switch.

Faulty wash relay (wash relay contacts welded closed). Turn machine off, if wash relay doesn't release, replace contactor.
 Faulty control relay. With power off, remove WHITE/RED & BLACK/YELLOW wires from control relay terminals #9 & #6. If there is continuity, replace relay.

Problem: Low pumped water pressure.

- 1. Water level is too low. Increase fill time on cam timer, or decrease drain timer, or increase incoming water pressure.
- 2. Sump strainer clogged. Clean strainer.
- 3. Wash arms clogged. Clean arms and jets.
- 4. Obstruction in pump housing or wash manifold. Disassemble and clear.
- 5. Pump impeller worn or broken. Replace the pump impeller.

Problem: Machine keeps tripping the service breaker.

1. Power supply shorted to ground. Check for loose wires or burned connections.

2. Faulty door switch or detergent safety switch. Check for loose or wet connections at switch and at wire connectors. Bypass switch to verify that switch is problem; replace if required.

- 3. Pump impeller jammed. Clear impeller.
- 4. Wash pump motor faulty. Check motor voltage and amp load. If amp load is over 12 amps, replace the motor.
- 5. Circuit breaker is too small. Replace with properly sized breaker. Refer to the data plate.

Problem: Machine will not drain.

- 1. Loose wire connection. Tighten wires to timer drain microswitch.
- 2. Drain hole/strainer obstructed. Clear obstructions.
- 3. Not enough time to drain. Adjust fill cam on timer and/or the drain cam.
- 4. Drain linkage binding. Repair drain parts.

5. Faulty drain microswitch on timer. With power off and the drain cam on the timer in the home position, remove the WHITE/YELLOW wire from the microswitch.

6. Faulty drain microswitch on timer. Measure the continuity between the ORANGE wire on the microswitch and the tab that the WHITE/ YELLOW wire is attached onto. If there is no continuity, replace the microswitch.

7. Drain solenoid defective. Check for voltage at solenoid valve during the drain cycle. Replace if voltage is present.

Problem: Machine will not hold water.

- 1. Faulty drain ball. Replace drain ball.
- 2. Obstructed drain hole. Clear obstruction.
- 3. Drain linkage is binding. Repair drain mechanism parts.

Problem: Sanitizer pump runs continuously.

1. Shorted sanitizer microswitch on cam timer. If there is not 120V between the ORANGE and GREY wires on the sanitization pump motor microswitch when switch is out of the home position, replace the switch.

2. Shorted prime switch. If there is not 220 volts between GREY and WHITE/RED wires to prime switch, replace the switch. Sanitizer pump does not run during the cycle, but runs when primed.

3. Loose or broken wire. Tighten connections to microswitch.

4. Faulty sanitizer microswitch on cam timer. When sanitizer cam is in home position, measure voltage between ORANGE and GREY wires on the microswitch. If 220V, replace switch.

COMMON PROBLEMS (EXPORT UNITS)

Problem: Prime switch does not activate sanitizer pump.

1. Faulty prime switch. With the prime switch in the prime position, check for voltage between the GREY and WHITE/RED wires to switch. If 220V, replace the switch.

2. Faulty delime switch. With the delime switch in the DELIME position, check for voltage between the WHITE/BLACK and WHITE/RED wires to the delime switch. If 220V, replace the delime switch.

Problem: Detergent not feeding; rinse aid feeds okay.

1. Misadjusted cam. Adjust detergent cam on cam timer.

2. Faulty detergent microswitch on cam timer. When the detergent cam is in the home position, measure voltage between ORANGE and GREY/ WHITE wires. If 220V, replace the microswitch.

Problem: Rinse aid not feeding, detergent feeds okay.

1. Misadjusted cam. Adjust rinse aid cam on cam timer.

2. Faulty rinse aid microswitch on cam timer. When the rinse aid cam is in the home position, measure the voltage between the ORANGE and ORANGE/YELLOW wires. If 220V, replace the microswitch.

Problem: Sanitizer pump does not run during the cycle, but runs when primed.

1. Loose or broken wire. Tighten connections to microswitch.

2. Faulty sanitizer microswitch on cam timer. When sanitizer cam is in home position, measure voltage between ORANGE and GREY wires on the microswitch. If 220V, replace switch.

SECTION 5: PARTS SECTION CONTROL BOX ASSEMBLIES - UNIVERSAL TIMER



Conserver XL Series Technical Manual 7610-002-10-23 Issued: 11-28-2007 Revised: N/A

CONTROL BOX ASSEMBLIES - UNIVERSAL TIMER (CONTINUED)

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Control Box Assembly	05700-003-16-83
2	1	Decal, Warning-Disconnect Power	09905-100-75-93
3	1	Decal, Control Box Upper	09905-003-21-89
4	1	Decal, Control Box Lower	09905-003-20-07
5	3	Switch, Prime	05930-011-49-54
6	1	Thermometer	06685-111-68-49
		Decal, Wash/Rinse 120F	09905-002-82-46
7	1	Switch, DPD	05930-301-49-00
8a	1	Fitting, Brass	04730-206-23-00
8b	2	Nut, Lock	05700-000-66-01
9a	1	Switch, Reed	05930-002-36-80
9b	1	Grommet	05325-011-46-73
10	1	Switch, On/Off, DPST	05930-111-38-79
11	1	Cycle Counter, 115 Volt	05990-111-35-38
11	1	Cycle Counter, 240 Volt	05990-111-47-42
12	4	Screw. 4-40 x 1/4" Long	05305-002-32-38
13	1	Power Light, Red	05945-504-07-18
14	1	Cycle Light Green	05945-504-08-18
15	1	Universal Timer	05945-003-33-09
16	1	Timer Mounting Bracket	05700-003-53-04
17	4	Screw 10-32 x $3/8"$ Long	05305-173-12-00
18	2	Switch Pressure	06685-003-36-13
19	2	Bracket Switch Pressure	05700-003-53-03
20	1	Decal Copper Conductors	09905-011-47-35
20	1	Motor Only 14 RPM 115 V	0/320-111-35-13
21	1	Motor Only, 14 RPM, 240 V	04320-111-47-46
22	2	Motor Only, 14 RI M, 240 V Motor Only, 36 RPM, 115 V	04320-111-35-14
22	2	Motor Only, 36 RPM, 240 V	04320-111-47-47
22	<u>~</u> 1	Chemical Feeder Pump Kit Assembly, 14 RPM w/Motor	05700-003-25-03
20	י י	Chemical Feeder Pump Kit Assembly, 36 RPM w/Motor	05700-003-25-03
27	2	Stiffener 17 3/8"	05700-003-25-02
	FT	Tubing Blue	04720-601-11-00
	FT	Tubing Red	04720-601-12-00
	FT	Tubing White	04720-601-12-00
25	1	Terminal Block	05940-500-09-61
20	1	Terminal Block Spacer	05700-011-40-05
20	1	Locknut 6-32 Hex with Nylon Insert	05700-011-40-00
28	1	Decal Power Connections	09905-011-47-64
20	1	Ground Wire Lug	05940-200-76-00
20	ו ס	Buzzor 115V	05940-200-70-00
21	۲ ۱	Terminal Board	05990-003-30-12
20	1	Contactor, 115 Volt	05940-021-94-05
ວ∠ ວວ	1	Contactor, 115 Volt	05945-109-05-09
ວ∠ ວວ	1	Switch Delime	05945-002-74-20
33 24	1	Switch, Delime	00005 011 24 06
34	1	Decal, Delime/Normal	04720 002 26 14
30	2	Wye, 1/4 Dalbeu PVDI Tubing 5/46 ID	04730-003-36-14
30 27	0		05700-003-53-26
3/	I	LUCK NIL	05340-102-01-00
		LOCKIUL, 0-32 DEX WITH NYION INSER	05310-373-03-00
		Locknut, 10-24 Hex with Nylon Inselft	05310-373-01-00



CONTROL BOX ASSEMBLY - WITH MECHANICAL TIMER (CONTINUED)

ITEM	QTY	DESCRIPTION	Mfg. No.
3	1	Thermometer	06685-111-68-49
4	1	Switch, On/Off, DPST	05930-111-38-79
5	1	Cycle Light	05945-504-08-18
6	1	Power Light	05945-504-07-18
7	1	Cycle Counter, 115 Volt	05990-111-35-38
7	1	Cvcle Counter, 240 Volt	05990-111-47-42
8	2	Chemical Feeder Pump Kit Assembly	05700-001-37-10
8a	1	Chemical Feeder Pump Kit Assembly	05700-002-83-90
04	•	Stiffener 17 3/8"	05700-002-66-49
		Tuhing Blue	04720-601-11-00
		Tubing Red	04720-601-12-00
		Tubing White	04720-601-13-00
a	1	Drin Shield	05700-001-82-56
3	1	Hose Drin Through Drain	05700-011-35-04
10	1	Pori Pump Mounting Plate	05700-011-33-04
10	1	Serow 10.22 x 2/9" Long	05700-021-02-55
10	4	Suiteh, Notorgant/Dinge Aid Taggle	05305-173-12-00
12	I	Switch, Detergeni/Rinse Ald Toggle	05930-011-35-27
40	4		09905-011-34-95
13	1	Switch, Oh/Off, SPST	05930-111-38-21
		Decal, Sanitizer Prime	09905-011-34-98
14	1	Switch, Delime	05930-301-21-18
		Decal, Delime/Normal	09905-011-34-96
15	1	Timer Mounting Bracket	05700-021-82-26
16	1	8 Cam Timer, 115 Volt	05945-111-35-32
16	1	8 Cam Timer, 240 Volt	05945-111-47-48
		Decal, Timer Cam Operation	09905-011-37-21
17	1	Contactor, 115 Volt	05945-109-05-69
17	1	Contactor, 240 Volt	05945-002-74-20
18	1	Terminal Block	05940-500-09-61
	1	Terminal Block Spacer	05700-011-40-05
		Decal, Power Connections	09905-011-47-64
		Decal, Copper Conductors	09905-011-47-35
19	1	Ground Wire Lug	05940-200-76-00
20	1	Grommet, Split 7/8"	05975-200-40-00
21	1	Control Relay, 115 Volt (Qty of 3 for Conserver XL2)	05945-111-35-19
21	1	Control Relay, 240 Volt	05945-111-47-51
22	1	Conduit Fitting, 1/2" 45° Plastic	05975-011-45-23
23	1	Conduit Fitting, 1/2" 90° Plastic	05975-011-45-13
-		Plug. 3/4" Metal	05975-212-02-02
24	1	Motor, Chemical Feeder Pump, 14 RPM, 115 V	04320-111-35-13
24	1	Motor, Chemical Feeder Pump, 14 RPM, 240 V	04320-111-47-46
25	2	Motor Chemical Feeder Pump 36 RPM 115 V	04320-111-35-14
25	2	Motor, Chemical Feeder Pump, 36 RPM, 240 V	04320-111-47-47
26	1	Grommet	05325-011-46-73
27	1	Fitting Brass	04730-206-23-00
28	2	Nut Lock	05700-000-66-01
20	2	Scrow $4.40 \times 1/4"$ Long	05205 002 22 28
29	4	Torminal Board	05005-002-32-30
21	1	Switch Road	00940-021-94-80
31	I		00000-002-00-80
		Switch, 20 AMP	05930-011-48-21
		Plate, Switch Legend	05945-011-35-07
		LOCKNUT, 6-32 HEX WITH NYION INSERT	05310-3/3-03-00
		Locknut, 10-24 Hex with Nylon Insert	05310-373-01-00

SECTION 5: PARTS SECTION

XLS BOWL OPTION







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XLS BOWL OPTION

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Thermometer	06685-111-68-49
2	1	Cycle Light, Green	05945-504-08-18
3	1	Power Light, Red	05945-504-07-18
4	1	Cycle Counter, 115 Volt	05990-111-35-38
4	1	Cycle Counter, 240 Volt	05990-111-47-42
5	1	Terminal Block	05940-500-09-61
6	1	Terminal Block Spacer	05700-011-40-05
7	1	Decal, Power Connections	09905-011-47-64
8	1	Ground Wire Lug	05940-200-76-00
9	1	Terminal Board	05940-021-94-85
10	1	Switch, Delime	05930-301-21-18
11	1	Contactor, 115 Volt	05945-109-05-69
12	2	Stand, Control Box	05700-003-30-29
13	1	Cover, Control Box	05700-003-30-88
14	1	Lock Kit	05340-102-01-00
15	1	Decal, Control Box	09905-003-30-85
16	1	Decal, Sanitizer and Rinse Aid	09905-003-30-86
17	1	Dispenser, Solid Rinse	09515-003-24-70
18	1	Dispenser, Solid Detergent	09515-003-24-71
19	2	Switch. Prime	05930-011-49-54
20	1	Bracket, Control Board	05700-003-30-91
21	1	Terminal Board	05940-002-78-97
22	1	Weldment, Control Box	05700-003-31-00
23	1	Switch, DPD	05930-301-49-00
24	1	Switch.	05930-111-38-79
25	1	Decal, Delime/Normal	09905-011-34-96
26	1	Decal, Copper Conductors	09905-011-47-35
27	1	Bushina. Split	05975-200-40-00
28	3	Fitting	05975-011-45-23
29	1	Decal. Warning-Disconnect Power	09905-100-75-93
30	1	Switch, Reed	05930-002-36-80
31	2	Cotter aPin. 3/32 x 3/4"	05315-207-01-00
32	6	Screw. 10-32 x 3/8" Long	05305-173-12-00
33	18	Locknut, 10-32 Hex with Nvlon Insert	05310-373-02-00
34	8	Screw, 10-32 x 1/2" Phillips Truss Head	05305-011-39-36
35	14	Locknut, 10-24 Hex with Nylon Insert	05310-373-01-00
36	1	Locknut, 6-32 Hex with Nylon Insert	05310-373-03-00
37	4	Screw. 4-40 x 1/4" Long	05305-002-32-38
38	2	Fitting, LiquidTite, 231x.394	05975-011-49-03
39	3	Clamp, 1" Nvlon Loop	04730-002-41-88
40	1	Bushing, Snap 1/2"	05975-210-05-00
41	1	Stand. Control Box Front	05700-003-31-20
42	2	Bacuum Breaker, 1/4" Bottom Outlet	04810-002-74-72
43	4	Fitting, 1/4" x 1/4" Comp Straight Brass	04730-011-48-56
44	1	Clamp, 5/8" Nvlon	04730-011-39-01
45-54	-	See Peri Pump Assembly Page	N/A
55	1	Plua. 3/4"	04730-011-60-21
56	1	Plug	05975-011-47-81
57	1	Decal. Wash/Rinse 120F	09905-002-82-46
58	1	Universal Timer	05945-003-33-09
59	4	Screw, 10-32 x01" Phillips Pan Head	05305-002-19-42

SECTION 5: PARTS SECTION MECHANICAL 8 CAM TIMER



CHEMICAL FEEDER PUMP ASSEMBLY



HOOD ASSEMBLY



ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Hood Weldment, Conserver AXL	05700-003-22-05
1	1	Hood Weldment, Conserver XL (Starting with S/N 04d10286)	05700-002-91-38
2	1	Hood Support	05700-002-78-99
3	4	Block Spacer	05700-002-81-02
4	16	Washer, 1/4" ID S/S	05311-174-01-00
5	4	Screw, 1/4"-20 x 1 1/8" Long S/S	05305-274-21-00
6	27	Locknut, 1/4"-20 S/S Hex with Nylon Insert	05310-374-01-00
7	10	Screw, 1/4"-20 x 1/2" Long S/S	05305-274-02-00
8	1	Shield, Air Gap	05700-002-13-35
9	1	Bracket, Manifold Positioning Tube	05700-011-34-63
10	2	Bracket, Cantilever Support	09515-003-15-64
11	6	Wear Button	05700-011-88-01
12	1	Bracket, Plumbing Support	05700-021-34-02
13	1	Reed Switch	05930-002-36-80
14	1	Gasket, Air Gap	05330-002-14-48
15	1	Weldment, Air Gap	05700-002-81-70
16	1	Hood Support Weldment	05700-003-22-54

SECTION 5: PARTS SECTION CONSERVER XL2 HOOD ASSEMBLY



OLD STYLE: If your unit uses items 5 and 6, it is the old style hood weldment. Items 3 thru 6 are used only with the old style Hood Weldment. The hood will have the proper mounting holes in the rear door guides and in the hood itself.

NEW STYLE: If your unit does not use items 5 and 6, then it is the new style hood weldment. Items 12 thru 15 are used only with the new style Hood Weldment. The hood will have two places on the back of the hood to attach the cantilever support bracket assembly shown above to the right.

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Hood Weldment, Conserver XL2 - Old Style	05700-002-21-67
1	1	Hood Weldment, Conserver XL2 - New Style	05700-002-60-76
1	1	Hood Weldment, Conserver AXL2	05700-003-25-05
2	4	Door Guide	05700-021-44-94
3	1	Door Guide, Left Rear	05700-021-33-16
4	1	Door Guide, Right Rear	05700-021-33-15
5	2	Arm Support Weldment	05700-011-43-52
6	2	Arm Support Weldment Gasket	05700-111-36-01
7*	1	Front Door Stop (Not Shown)	05700-021-60-27
8*	1	Stiffener, Hood Support (Not Shown)	05700-002-47-39
9	2	Manifold L-Bracket	05700-011-34-63
10	1	Door Catch	05700-011-46-50
11	1	Hood Stiffener	05700-002-08-24
12*	2	Bracket, Cantilever Support	09515-003-15-64
13*	6	Wear Button	05700-011-88-01
14	1	Door Guide, Left Rear, New Style	05700-021-84-71
15	1	Door Guide, Right Rear, New Style	05700-021-84-70



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CANTILEVER ARM (DOUBLE BRACKET MOUNT) (CONTINUED)

ITEM	QTY	DESCRIPTION	Mfg. No.
1	1	Arm, Cantilever, Conserver XL (Prior to S/N 04D10286)	05700-002-00-20
1	1	Arm, Cantilever, Conserver XL (Starting with S/N 04D10286)	05700-031-50-67
1	1	Arm, Cantilever, Conserver AXL	05700-003-52-91
1*	1	Arm, Cantilever, Conserver XL2	05700-002-60-65
2	1	Spring Pin, 1/4" Dia. x 1 1/8" Long	05315-407-06-00
3	2	Yoke Assembly	05700-000-75-77
3a	1	Cotter Pin	05315-207-01-00
3b	1	Yoke	05700-000-75-78
3c	1	Clevis Pin, 5/16" x 1 3/8"	05315-700-01-00
3d	2	Nylon Washer	05311-369-03-00
3e	1	Bushing	03120-100-03-00
3f	2	Locknut, 3/8"-16 S/S Hex Center	05310-256-04-00
4	2	Rod, Spring, Conserver XL (Prior to S/N 04D10286)	05700-000-69-45
4	2	Rod, Spring, Conserver XL (Starting with S/N 04D10286)	05700-002-10-52
4	2	Rod, Spring, Conserver XL2	05700-002-29-38
5	2	Spring, Conserver XL	05340-109-02-00
5	2	Spring, Conserver XL2	05340-109-02-00
6	2	Bolt, Hanger Eye 3/8"-16	05306-956-05-00
7	2	Washer, Impeller 3/8" I.D. x 7/8" O.D.	05311-176-02-00
8	4	Nut, 3/8"-16 S/S Hex	05310-276-01-00
9	2	Cantilever Arm Connector	05700-011-90-99
10	2	Screw, 1/4"-20 x 1 1/2" Long S/S	05305-274-23-00
11	2	Washer, 1/4" ID S/S	05311-174-01-00
12	2	Locknut, 1/4"-20 S/S Hex with Nylon Insert, Low Profile	05310-374-02-00
13	2	Sleeve, Cantilever Arm	05700-000-85-69
14	2	Plug, Cantilever Arm	05340-011-35-00
15	1	Magnet, Reed Switch	05930-111-51-68
16	2	Locknut, 8-32 S/S Hex with Nylon Insert	05310-272-02-00
17	1	Right Door Weldment Assembly, Conserver XL (Starting with S/N 04D10286)	05700-002-30-88
	1	Right Door Weldment with Studs, Conserver XL (Starting with S/N 04D10286)	05700-002-29-85
17a*	1	Right Door Assembly, Conserver XL2	05700-003-02-97
	1	Right Door Only, Conserver XL2	05700-003-02-71
18	6	Door, Guides	05700-111-33-59
19	2	Screw, 1/4"-20 x 1/2" Long S/S	05305-274-02-00
20	2	Spacer, PB Bolt	05700-000-29-40
21	4	Locknut, 1/4"-20 S/S Hex with Nylon Insert	05310-374-01-00
22	2	Door Connector Bracket, Conserver XL Only	05700-021-33-39
22*	4	Door Stop, Conserver XL2 Only	05700-011-46-30
23	1	Front Door Assembly, Conserver XL (Starting with S/N 04D10286)	05700-002-30-89
	1	Front Door Only, Conserver XL (Starting with S/N 04D10286)	05700-002-29-83
23a*	1	Front Door Weldment Assembly, Conserver XL2	05700-003-02-96
	1	Front Door Weldment with Studs, Conserver XL2	05700-003-03-41
24	1	Left Side Door Assembly, Conserver XL (Starting with S/N 04D10286)	05700-002-30-87
	1	Left Side Door Only, Conserver XL (Starting with S/N 04D10286)	05700-002-29-86
24a*	1	Left Side Door Weldment Assembly, Conserver XL2	05700-003-02-99
	1	Left Side Door WeldmentOnly, Conserver XL2	05700-003-02-98
25	2	Bracket, Cantilever Arm Support	09515-003-15-64
26*	6	Wear Button, 1/2" Dia. UHMW	05700-011-88-01

* Represents an item not shown.

SECTION 5: PARTS SECTION CONSERVER XL2 CANTILEVER ARM ASSEMBLY (SINGLE BRACKET MOUNT)

18 U Bracket Assembly





Note: Items 1thru 5 and items 18 thru 24 are used only with the old style, single mount bracket, Cantilever Arm Assembly.

1

1 1 Hex Nut, 1/4"-20 with Nylon Insert, S/S 05310-374 2 1 Wear Strip UHMW 05700-011- 3 1 Sleeve 05700-000-	4-01-00 -34-50)-01-53 -10-00 -34-49 -35-22
2 1 Wear Strip UHMW 05700-011 3 1 Sleeve 05700-000	I-34-50)-01-53 I-10-00 I-34-49 -35-22
3 1 Sleeve 05700-000)-01-53 1-10-00 -34-49 -35-22
	1-10-00 1-34-49 -35-22
4 1 Bolt, 1/4"-20 x 1 3/4", S/S 05305-274	1-34-49 -35-22
5 1 Link, Spring to Cantilever Arm 05700-021	-35-22
6 1 Cantilever Spring 05340-111	
7 1 Cantilever Eye Bolt 05700-011	-45-99
8 1 Washer, Impeller 05311-176	3-02-00
9 2 Nut, 3/8"-16 Hex, S/S 05310-276	3-01-00
10 1 Cantilever Arm 05700-031	1-45-38
11 2 Hex Head Bolt, 1/4"-20 x 1 1/2", S/S 05305-274	1-23-00
12 4 Washer, Flat 1/4", S/S 05311-174	-01-00
13 2 Cantilever Arm Sleeve 05700-000)-85-69
14 2 Hex Head Bolt, 1/4"-20 x 1/2", S/S 05305-274	1-02-00
15 2 Endcap, Cantilever Arm 05340-011	-35-00
16 2 Bolt Spacer 05700-000)-29-40
17 2 Cantilever Arm Lever 05700-011	-90-99
18 2 U Bracket Assembly 05700-011	-43-72
19 2 Bolt, Hex Head, 1/4"-20 x 3/4" 05305-274	1-04-00
20 5 Hex Nut, 1/4"-20 with Nylon Insert, Low Profile 05310-374	1-02-00
21 1 Bracket, Inner Half, U 05700-021	-43-00
Bracket, Outer Half, U & Bearing Assembly 05700-011	-43-54
22 1 Bracket, Outer Half, U 05700-021	I-43-04
23 1 Sleeve Bearing 03120-011	-43-53
24* 2 Retaining Ring 05340-011-	-33-62

SECTION 5: PARTS SECTION
 CONSERVER XL WASH TUB & FRAME ASSEMBLY (Starting with S/N 04D10286)



ITEM QTY DESCRIPTION

1	1	Tub Weldment, Conserver XL (Prior to S/N 04D10286)
1	1	Tub Weldment, Conserver XL (Starting with S/N 04D10286)
2	1	Fitting, Chemical Drip
3	1	Spillway Weldment
3	1	Cover, Drain Chute
4	2	Drain Seat Gasket
5	1	Sump Strainer
6	1	Drain Seat Insert
7	1	Bulkhead to 1/2" Hosebarb Fitting
8	4	Locknut, 10-24, with Nylon Insert
9	1	Accumulator Weldment
10	1	Strainer, Accumulator Weldment
11	1	Frame Weldment
12	1	Leg, Tub Support
13	4	Bullet Feet

Mfg. No.

05700-002-04-38 05700-002-78-30 05700-002-05-62 05700-002-04-41 05700-002-04-42 05700-002-06-25 05700-021-34-38 04730-011-45-21 05310-373-01-00 05700-002-19-05 05700-002-19-05 05700-002-29-15 05700-002-89-32 05340-108-01-03

SECTION 5: PARTS SECTION CONSERVER XL2 TUB ASSEMBLY (LEFT FRONT VIEW)



ITEM	QTY	DESCRIPTION	Mfg. No.
1	2	Lower Wash Manifold Weldment	05700-031-46-00
2	2	Casting, Manifold Wedge	09515-011-46-61
3	4	Manifold Gasket	05700-111-35-03
4	1	Wash Tub Weldment	05700-002-21-50
5	2	Wash Motor Support Assembly	05700-021-66-48
	1	Bracket, Pump Support Weldment	05700-021-66-47
	1	Bracket, Lower Pump Support	05700-021-66-46
	1	Nut, 1/4"-20 Serrated Nut	05310-011-66-49
6	2	Wash Motor 60 Cycle	06105-002-69-78
7	1	Fitting, Brass Elbow	04730-002-18-96
8	2	Pump Inlet Nipple	05700-021-46-84
9	4	Hose Clamp, Regular, 1 5/16" - 2 1/4"	04730-719-01-37
10	4	Hose Clamp, Mini, 7/16" - 25/32"	04730-011-36-05
11	2	Hose, 1 1/2" ID x 7 3/4" Long	05700-111-33-52
12	2	Hose, 3/8" ID x 12" Long	05700-002-69-73
13	2	Hose Clamp, Regular, 5 5/8" - 6"	04730-011-34-90

SECTION 5: PARTS SECTION CONSERVER XL2 SERIES TUB ASSEMBLY (RIGHT FRONT VIEW)



* Represents an item not shown.

ITEM	QTY	DESCRIPTION	Mfg. No.
1	7	Locknut, 10-24 S/S Hex with Nylon Insert	05310-373-01-00
2	1	Drain Solenoid, 115V	04810-200-11-00
2	1	Drain Solenoid, 240V	04810-111-87-74
3	1	Drain Solenoid Box	05700-021-37-53
4	1	Drain Solenoid Box Cover	05700-031-33-27
5	1	Locknut, 1/4"-20 S/S Hex with Nylon Insert	05310-374-01-00
6	1	Drain Link Assembly	05700-002-38-21
6	1	Drain Link	05700-031-46-52
7	1	Drain Link Connector	05700-002-38-10
8	1	Hex Nut, 5/16"-18	05310-275-01-00
9	2	Spillway Gasket	05700-111-34-52
10	1	Drain Seat Insert (Stainless Ring)	05700-021-34-38
11	1	Spillway Weldment	05700-031-37-86
12*	1	Cotter Pin, 1/8" x 1"	05315-002-15-39
13*	1	Solenoid Stop	05700-000-66-40
14	1	Hole Plug	04730-011-60-21

SECTION 5: PARTS SECTION CONSERVER XL2 SERIES FRAME WELDMENT & ACCUMULATOR



INCOMING PLUMBING ASSEMBLIES



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3/4" SOLENOID VALVE & 3/4" NPT VACUUM BREAKER REPAIR PARTS KITS



Cap Screw Data Plate Cap Retainer Cap Retainer Cap Retainer Components of Repair Kit 06401-003-06-24 Components of Repair Kit Body

> Complete Vacuum Breaker Assembly 04820-002-53-77

Complete 110 Volt Solenoid Valve Assembly 04810-100-53-00 Coil & Housing only 04810-200-01-18

Complete 240 Volt Solenoid Valve Assembly 04810-100-03-18 Coil & Housing only 04810-200-02-18

Possible Problems:

- 1. Pilot port extension #1 clogged. Clean hole.
- 2. Hole #2 Clogged. Pass heated straight pin through hole.



TO TAKE THE SOLENOID VALVE APART

DISASSEMBLY - These valves may be taken apart by unscrewing the bonnet and the enclosing tube assembly from the valve body assembly. After unscrewing, carefully lift off the bonnet and enclosing tube assembly. Don't drop the plunger. The o-ring seal and diaphragm cartridge can now be lifted out. Be careful not to damage the machined faces while the valve is apart.

TO REASSEMBLE - Place the diaphragm cartridge in the body with the pilot port extension UP. Hold the plunger with the synthetic seat against the pilot port. Make sure the o-ring is in place, then lower the bonnet and enclosing tube assembly over the plunger. Screw the bonnet assembly snugly down on the body assembly.