

**Service Manual**  
**For**  
**Coin Laundry**  
**Superload**  
**Washer-Extractors**  
(Metered and Nonmetered)

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Information in this Manual is applicable to these model Superload Washer-Extractors.

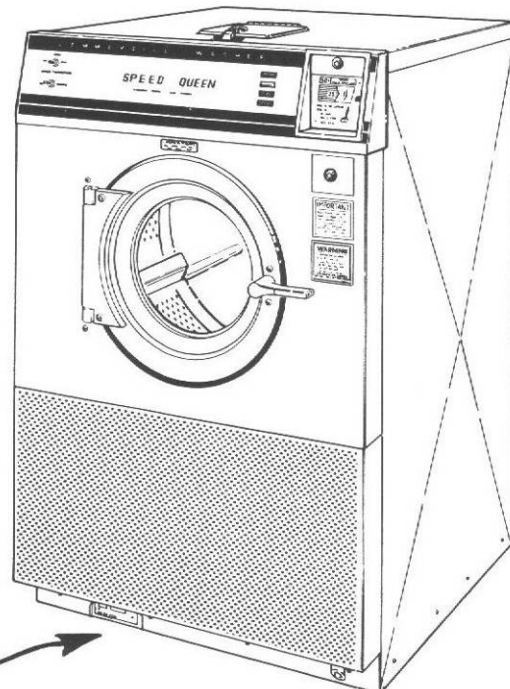
MODELS		DRAIN	
Metered	Nonmetered	Pump	Nonpump
CL8861	CL8871		X
CL8863	CL8873	X	

**NOTE:** When reference to directions (right or left) is made in this manual, it is from the operator's position standing in front of the Superload Washer-Extractor facing toward the unit.

## Specifications

Cabinet Finish:	Hi-baked acrylic enamel rear and side panels; stainless steel front panel and air intake grille. Procelain cabinet top.
Height:	46-1/2 inches (118.11 centimeters).
Width:	30 inches (76.2 centimeters).
Depth:	30-1/4 inches (76.835 centimeters).
Electrical Rating:	120/240 Volt, 60 Hertz, Single phase, three wire, 10.5 amps. Also available for 120/208 Volt operation.
Drive Motor:	Internal overload protected. Wound for 230 Volt 60 Hertz operation at 3450 and 400 R.P.M. Also available for 208 Volt operation. Lifetime lubricated.
Blower Motor:	Wound for 115 Volt, 60 Hertz operation at 3000 R.P.M.
Pump Motor: Models CL8863 & CL8873	Wound for 115 Volt, 60 Hertz operation at 3000 R.P.M.
Clothes Cylinder:	Stainless Steel.
Cycle Timer:	30 minutes — complete cycle.
Reversing Timer:	Reverses drive motor every 30 seconds in tumble portion of cycle.
Water Mixing Valve:	3.8 gpm (14.38 liters per min.) water flow rate.
Weight:	418 lbs. (189.60 kilograms).

## Nameplate



When writing for information on the Speed Queen Superload Washer-Extractor, be sure to mention model and serial numbers. The model and serial numbers will be found on the nameplate as shown.

**WARNING**

**FAILURE TO INSTALL, MAINTAIN AND/OR OPERATE THIS MACHINE ACCORDING TO MANUFACTURER'S INSTRUCTIONS MAY RESULT IN CONDITIONS WHICH CAN PRODUCE BODILY INJURY AND/OR PROPERTY DAMAGE.**

**NOTE:** The **WARNING** and **IMPORTANT** instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution and carefulness are factors which **CANNOT** be built into this Superload Washer-Extractor. These factors **MUST BE** supplied by the person(s) installing, maintaining or operating the Washer-Extractor. Always contact your dealer, distributor, service agent, or the manufacturer on any problems or conditions you do not understand.

**IMPORTANT INFORMATION:** During the lifetime of your washer-extractor, it may require service. The information contained in this manual was written and is intended for use by qualified service technicians who are familiar with the safety procedures required in the repair of your washer-extractor, and who are equipped with the proper tools and testing equipment.

Repairs that are made to your washer-extractor by unqualified persons can result in hazards due to improper assembly or adjustments subjecting you, or the inexperienced person making such repairs, to the risk of injury or electrical shock which can be serious or even fatal.

If you or an unqualified person perform service on your washer-extractor, you must assume the responsibility for any personal injury or property damage which may result. The manufacturer will not be responsible for any injury or property damage arising from improper service and/or service procedures.

**CAUTION:** Whenever ground wires are removed during servicing, these ground wires must be reconnected to insure that the washer-extractor is properly grounded.

# SECTION II

## Service Procedures

### WARNING

Disconnect power cord and close water supply valves before servicing washer.

Never energize the electrical power to the washer with any of the panels removed.

NOTE: When reference to directions (right or left) is made in this manual, it is from the operator's position standing in front of the Superload facing toward the unit.

### 1. ACCUMULATOR COIN DROP — Metered Models (Refer to Figure 1)

- a. Unlock coin drop and pull it out of washer as far as wires will permit.

NOTE: Coin drop has threaded lock and will require several counterclockwise turns to unlock.

- b. Disconnect wire harness at terminal block.

NOTE: Refer to *Figure 2* for accumulator coin drop assembly sequence.

### IMPORTANT STEPS IN RE-ASSEMBLING ACCUMULATOR COIN DROP

1. Install coin switch, *Figure 2*, so switch "clicks" before coin has completely dropped free of actuator arm. When actuator arm returns to natural position, there should be some free travel between the "click" and reseating against bottom of coin chute.

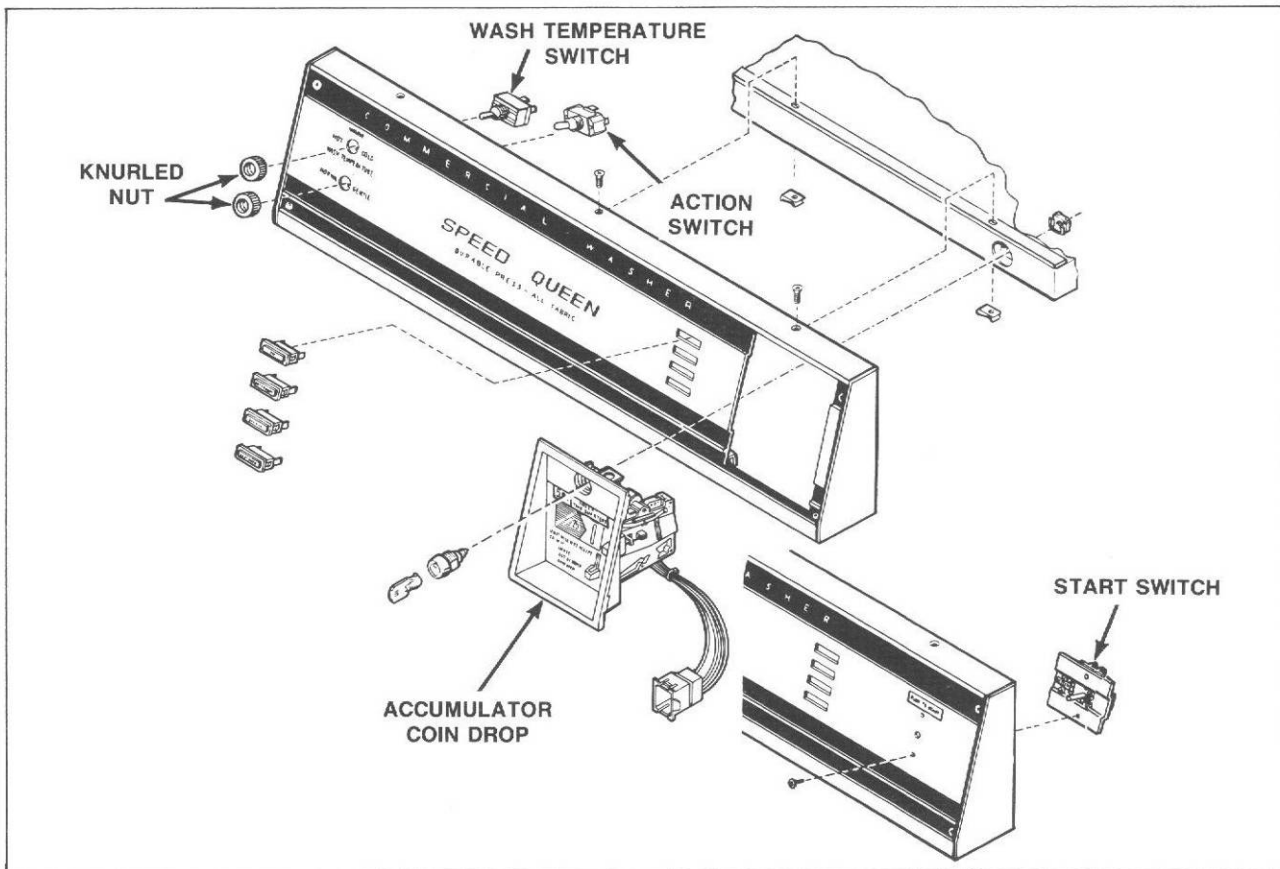


Figure 1

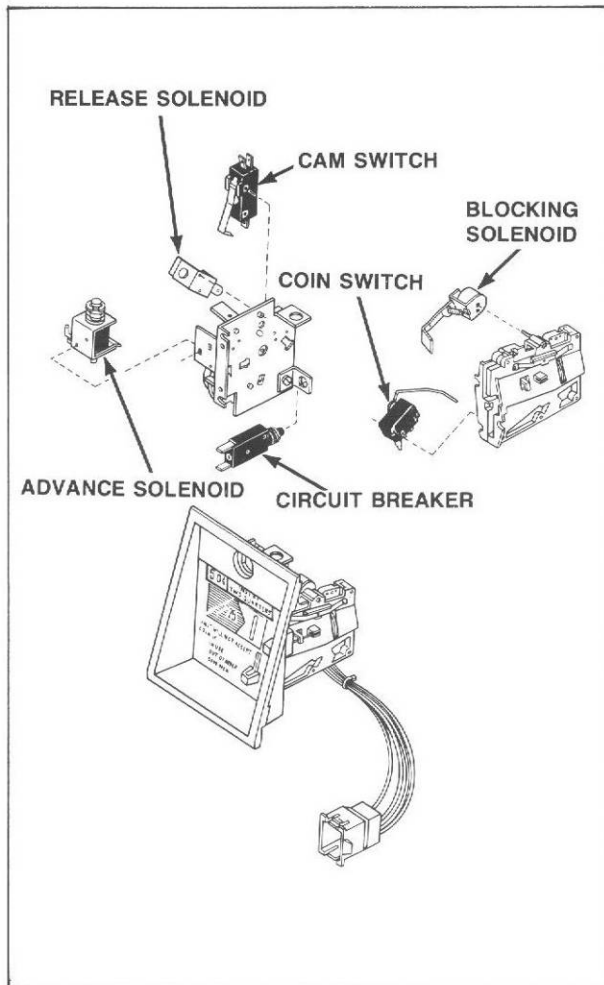


Figure 3

2. Install cam switch, *Figure 3*, so it clicks "on" about 3/4 the distance up switch cam rise.
3. Install advance solenoid, *Figure 3*, so plunger actuates the ratchet wheel enough for the pawl to latch it. Make sure ratchet wheel teeth can rotate clear of plunger boot after solenoid plunger has returned.
4. Install release solenoid, *Figure 3*, so when fully actuated, the solenoid will pivot the pawl enough to allow the ratchet wheel to rotate freely.

**2. START SWITCH — Nonmetered Models** (*Refer to Figure 1*)

- a. Remove three screws holding control panel assembly to cabinet top and tilt assembly away from washer.
- b. Disconnect wire harness at terminal block.
- c. Remove two screws holding switch to control panel.

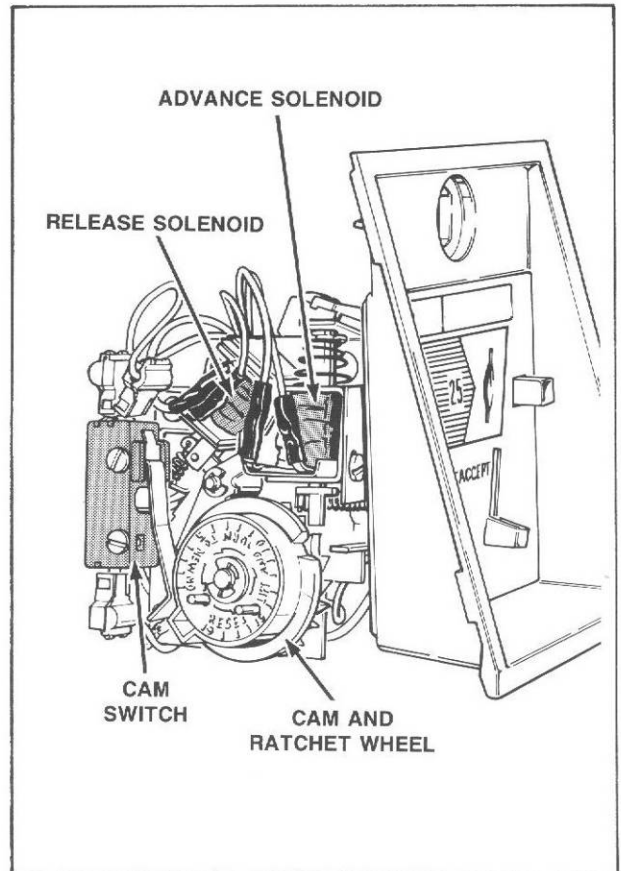


Figure 2

**3. CONTROL PANEL ASSEMBLY** (*Refer to Figure 1*)

- a. Remove coin drop, paragraph 1.
- b. Remove three screws holding control panel assembly to cabinet top.
- c. Tilt control panel assembly away from washer and disconnect wire harnesses at terminal blocks.

**4. ON, DETERGENT, BLEACH OR SOFTENER LIGHT** (*Refer to Figure 1*)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Disconnect wires from light, compress locking tabs, and push light out front of control panel.

**5. WASH TEMPERATURE OR ACTION SWITCH** (*Refer to Figure 1*)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Disconnect wires from switch.
- d. Remove knurled nut holding switch to control panel.

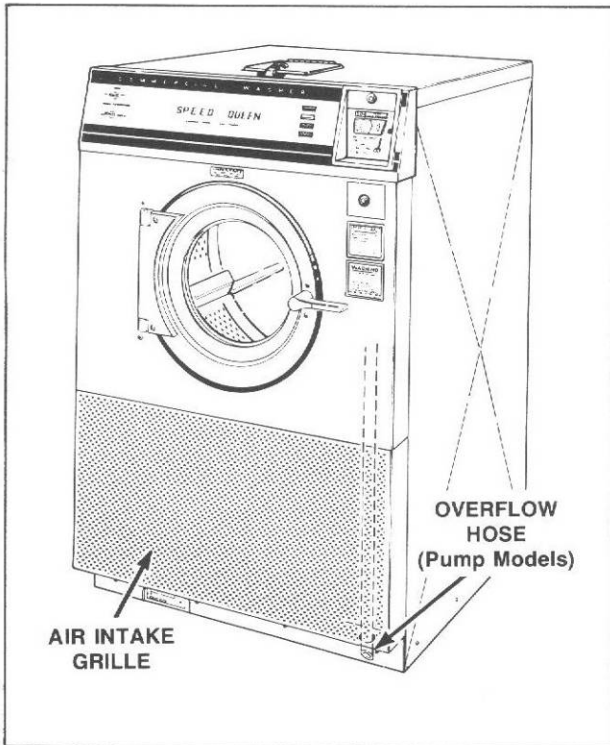


Figure 4

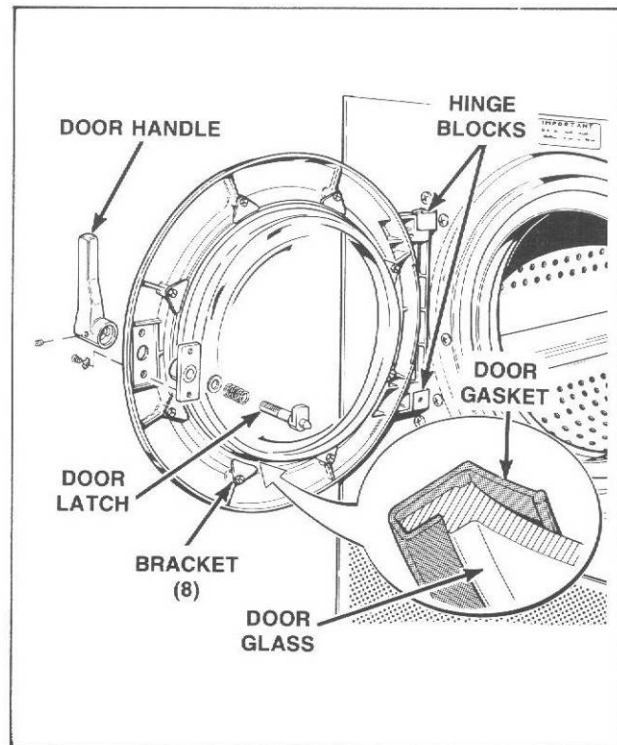


Figure 5

**6. AIR INTAKE GRILLE** (Refer to Figure 4)

- a. Remove four screws from base of grille.
- b. Pull bottom of grille away from washer and lower the grille.

**NOTE:** Pump Models — When grille is reinstalled, end of overflow hose must protrude through hole in bottom of grille.

**7. DOOR LATCH AND HANDLE** (Refer to Figure 5)

- a. Open loading door.
- b. Loosen setscrew in door handle and turn latch out of handle.

**NOTE:** When reinstalling, turn latch into door handle until door fits snugly when closed and latched. With latch parallel to door handle, tighten setscrew securely. (Apply a retaining compound such as Loctite® on setscrew threads.)

**8. DOOR GLASS AND GASKET** (Refer to Figure 5)

Open loading door and remove eight bracket screws holding door glass and gasket to door.

**9. LOADING DOOR ASSEMBLY** (Refer to Figure 5)

Open loading door, loosen setscrew in lower hinge block and remove hinge pin.

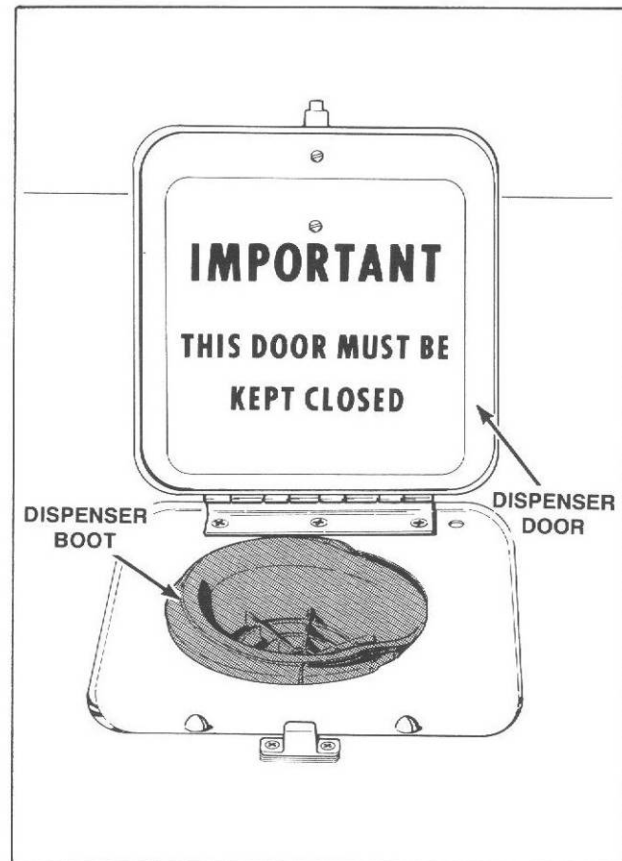


Figure 6



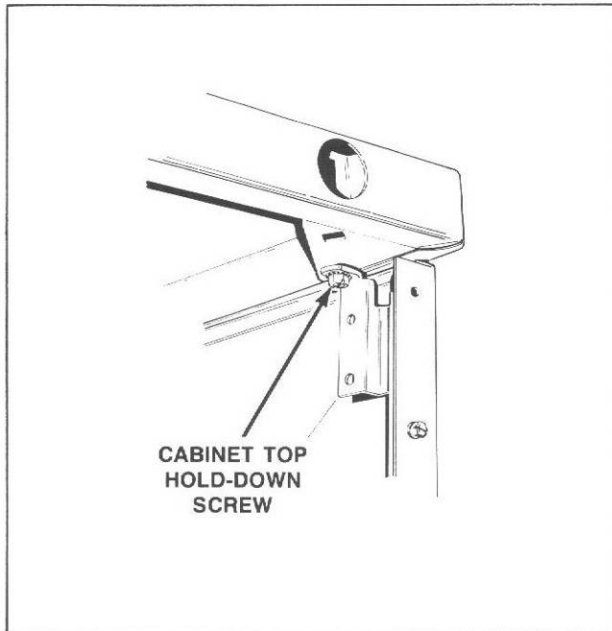


Figure 7

#### 10. CABINET TOP ASSEMBLY

- Remove coin drop, paragraph 1.
- Remove control panel assembly, paragraph 3, steps "b" and "c".
- Open dispenser door, compress dispenser boot and push boot down through cabinet top, Figure 6.
- Remove two cabinet top hold-down screws, Figure 7.

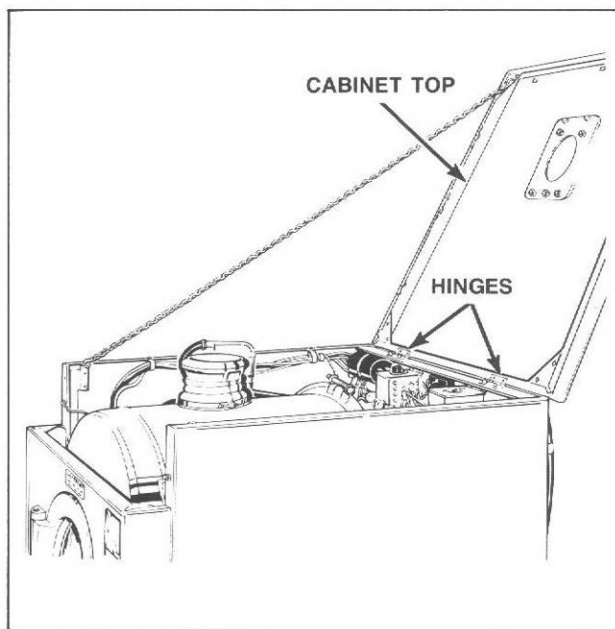


Figure 8

- Tilt cabinet top backward and hold in raised position with a small chain, Figure 8.
- Remove four screws and nuts holding cabinet top to hinges, Figure 8.

#### 11. COIN VAULT — Metered Models

- Remove coin drop, paragraph 1.
- Remove control panel assembly, paragraph 3, steps "b" and "c".
- Unlock and remove coin drawer, Figure 9.

**NOTE: Coin drawer has threaded lock and will require several counterclockwise turns to unlock.**

- Raise cabinet top assembly, paragraph 10, steps "c" through "e".
- Remove flathead screw and locknut, Figure 10, holding coin vault to front panel.
- Remove two cap screws and lockwasher holding coin vault to right leg, Figure 10.

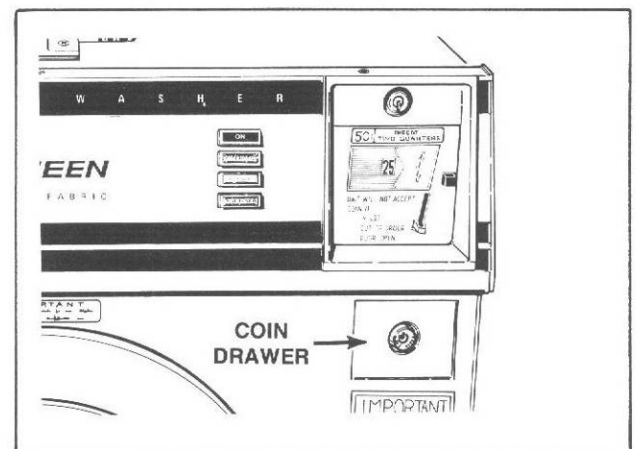


Figure 9

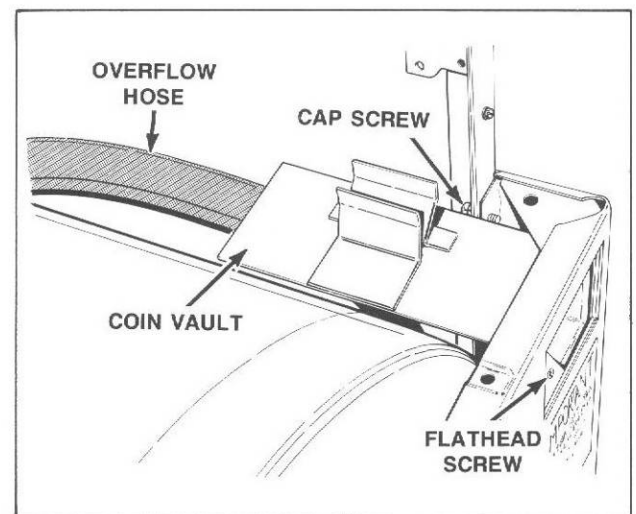


Figure 10

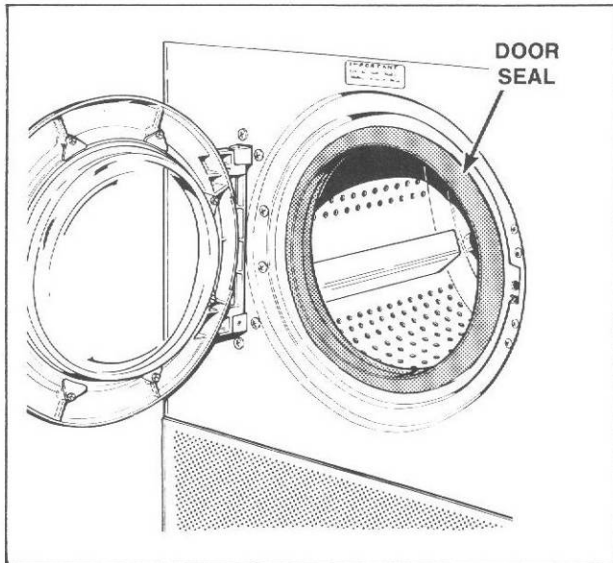


Figure 11

## 12. FRONT PANEL ASSEMBLY

- Remove coin drop, paragraph 1.
- Remove control panel assembly, paragraph 3, steps "b" and "c".
- Remove air intake grille, paragraph 6.
- Metered Models: Remove flathead screw and locknut holding coin vault to front panel.
- Metered Pump Models: Remove coin vault, paragraph 11, steps "c" through "f".

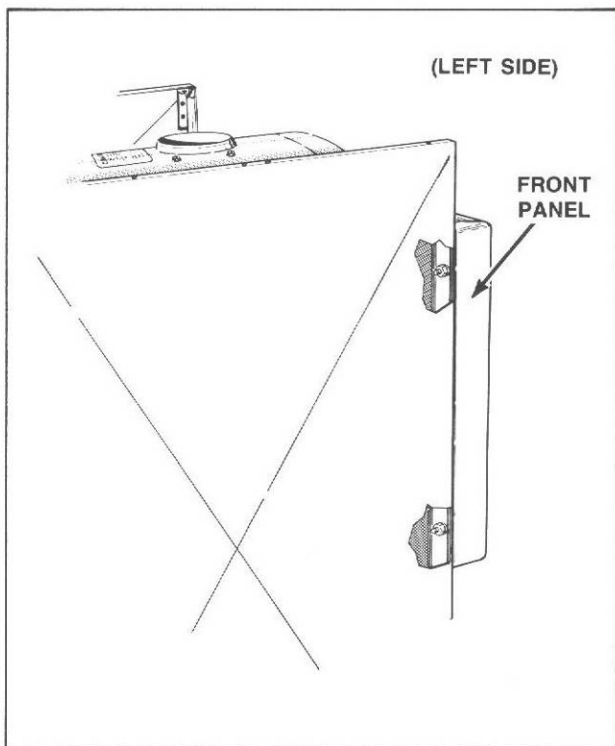


Figure 12

- Disengage door seal from front panel flange, *Figure 11*.
- Remove two nuts and lockwashers, *Figure 12*, holding front panel assembly to left leg (leave bolts in place).
- Remove nut and lockwasher (bottom), and cap screw (top), *Figure 13*, holding front panel assembly to right leg.

**NOTE: Pump Models: Overflow hose, *Figure 10*, may have to be pushed down to gain access to cap screw holding top of front panel assembly to right leg.**

- Pull front panel assembly from washer.

**IMPORTANT: When reinstalling front panel assembly, leave bolts loose until the door gasket is properly positioned and the door opening is centered with the outer tub when loading door is in closed position.**

## 13. DOOR HINGE

- Remove coin drop, paragraph 1.
- Remove control panel assembly, paragraph 3, steps "b" and "c".
- Remove air intake grille, paragraph 6.
- Remove loading door, paragraph 9.
- Remove front panel assembly, paragraph 12, steps "d" through "i".
- Remove six screws holding door hinge to front panel, *Figure 14*.

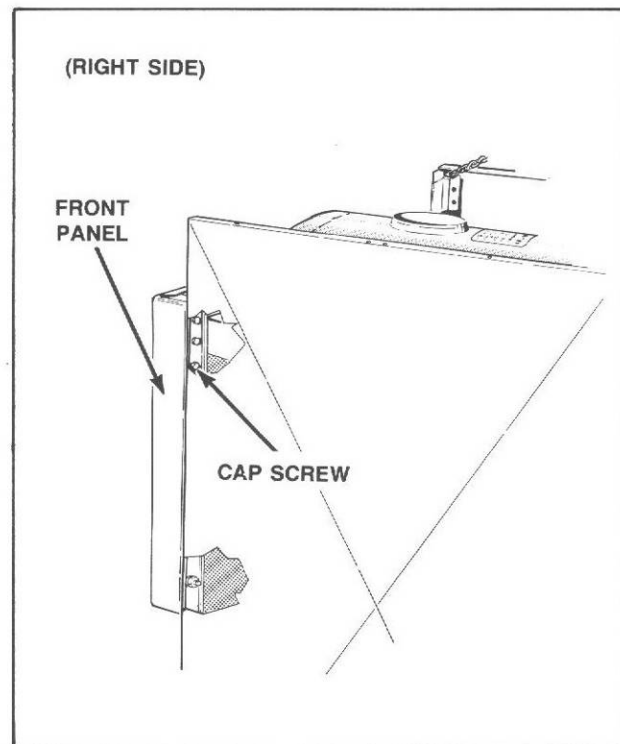


Figure 13

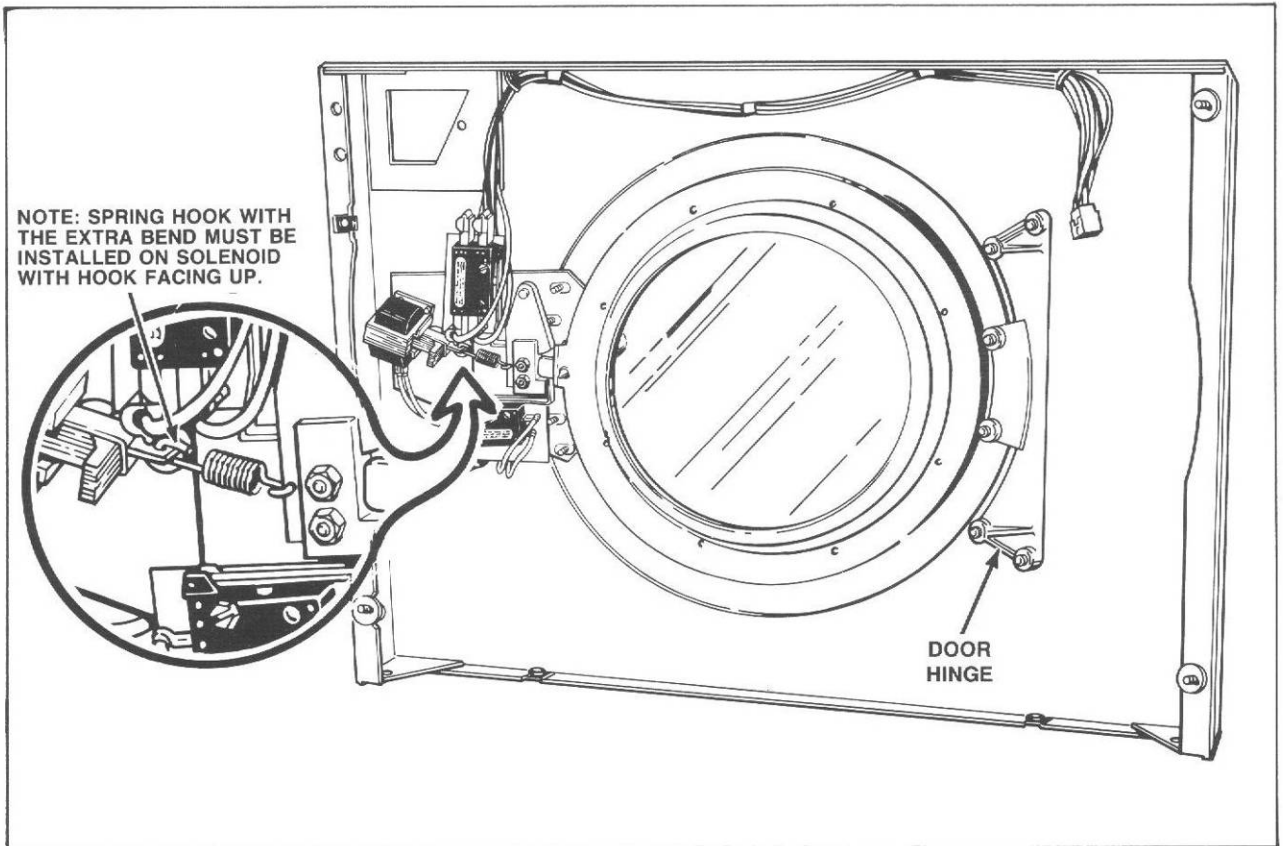


Figure 14

#### 14. DOOR LOCK SOLENOID

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Remove air intake grille, paragraph 6.
- d. Remove two wire harness clips from top flange of front panel, *Figure 14*.
- e. Hold wire harness, open loading door and remove four screws holding door lock assembly bracket to front panel, *Figure 15*.
- f. Lower complete assembly (by use of wire harness) and remove through air intake grille opening, *Figure 15*.
- g. Disconnect wires and unhook spring from solenoid.

**NOTE:** When connecting spring to solenoid, hook on spring must be facing up, *Figure 14*.

- h. Remove four screws holding solenoid to bracket, *Figure 15*.

#### 15. DOOR LOCK SWITCH OR DOOR SAFETY SWITCH (Refer to *Figure 16*)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".

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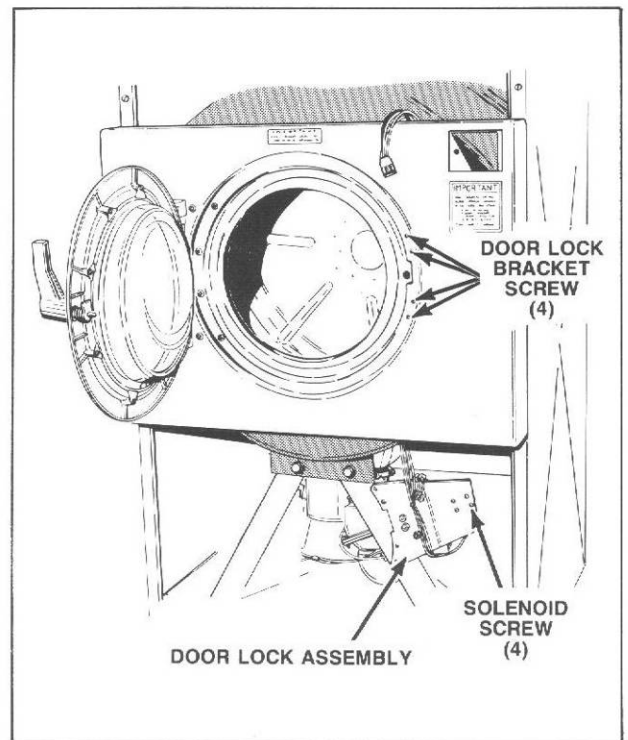


Figure 15

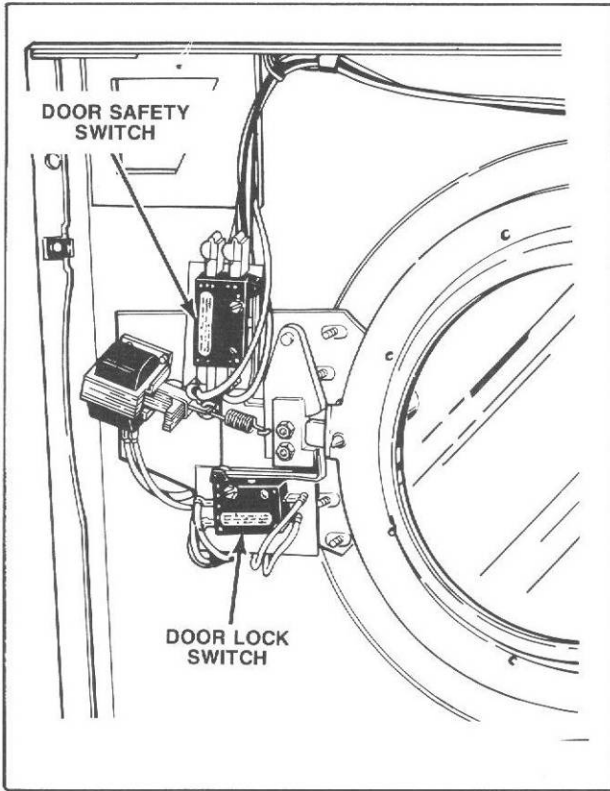


Figure 16

- c. Remove air intake grille, paragraph 6.
- d. Remove front panel assembly, paragraph 12, steps "d" through "i".
- e. Disconnect wires from switch.
- f. Remove two screws, nut and lockwasher holding switch to bracket.

**IMPORTANT:** Insulation must be in place between switch and bracket when switch is installed. Adjust switch per paragraph 42.

**16. DOOR SEAL** (Refer to Figure 17)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Remove air intake grille, paragraph 6.
- d. Remove front panel assembly, paragraph 12, steps "d" through "i".
- e. Disconnect retainer strap spring from retainer strap.
- f. Pull door seal off flange of outer tub.

**IMPORTANT:** Reinstall door seal with seam at top.

**17. BUTTON TRAP** (Refer to Figure 18)

- a. Remove air intake grille, paragraph 6.
- b. Loosen clamp holding button trap to outer tub.

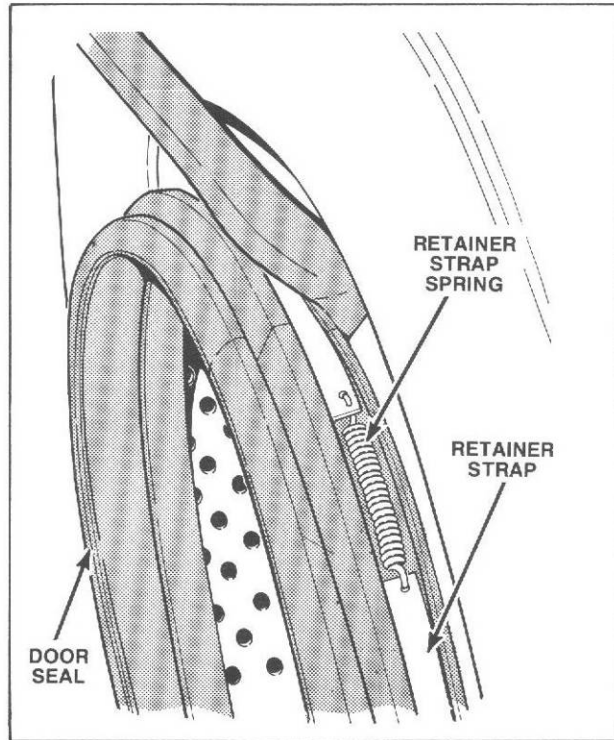


Figure 17

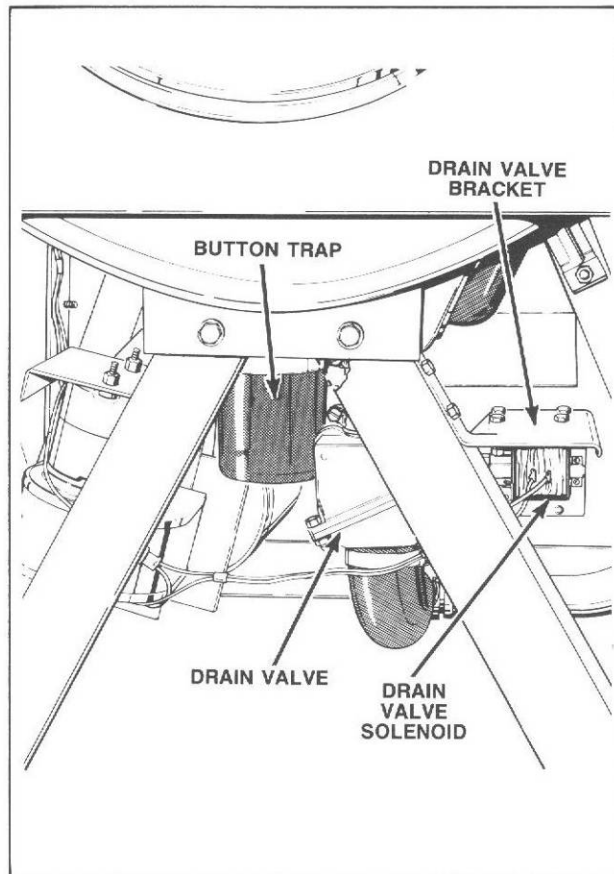


Figure 18

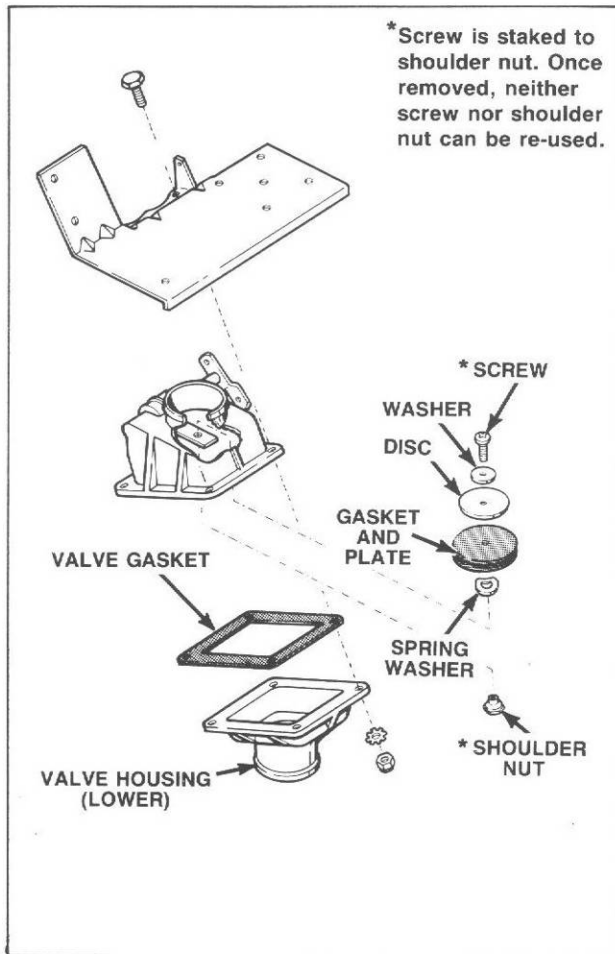


Figure 19

**18. DRAIN VALVE AND BRACKET ASSEMBLY**  
(Refer to Figure 18)

- a. Remove air intake grille, paragraph 6.
- b. Disconnect wires from drain valve solenoid.
- c. Disconnect hoses from drain valve.
- d. Remove two screws and lockwashers holding valve bracket to front tub support.

**NOTE:** Refer to *Figure 19* for drain valve assembly sequence.

**19. DRAIN VALVE SOLENOID** (Refer to Figure 18)

- a. Remove air intake grille, paragraph 6.
- b. Disconnect wires from solenoid.
- c. Support solenoid while removing four screws and nuts holding solenoid to drain valve bracket.
- d. Lower solenoid and disengage spring.

**20. TERMINAL BLOCK** (Refer to Figure 20)

- a. Remove terminal block access plate from rear cross channel.
- b. Disconnect wires from terminal block.

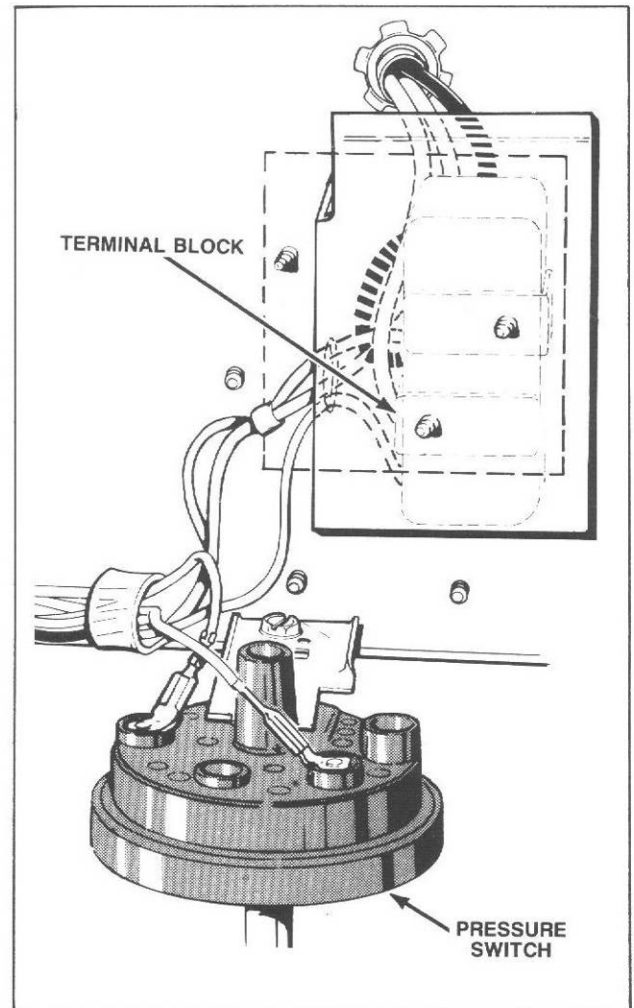


Figure 20

**IMPORTANT:** Refer to wiring diagram when connecting wires. Tighten nuts securely.

- c. Remove two screws holding terminal block to bracket.

**21. PRESSURE SWITCH** (Refer to Figure 20)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Raise cabinet top assembly, paragraph 10, steps "c" through "e".
- d. Disconnect pressure hose from pressure switch.
- e. Disconnect wires from switch.
- f. Remove screw holding pressure switch and bracket to cross channel.

**22. MOTOR START RELAY SWITCH** (Refer to Figure 21)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".

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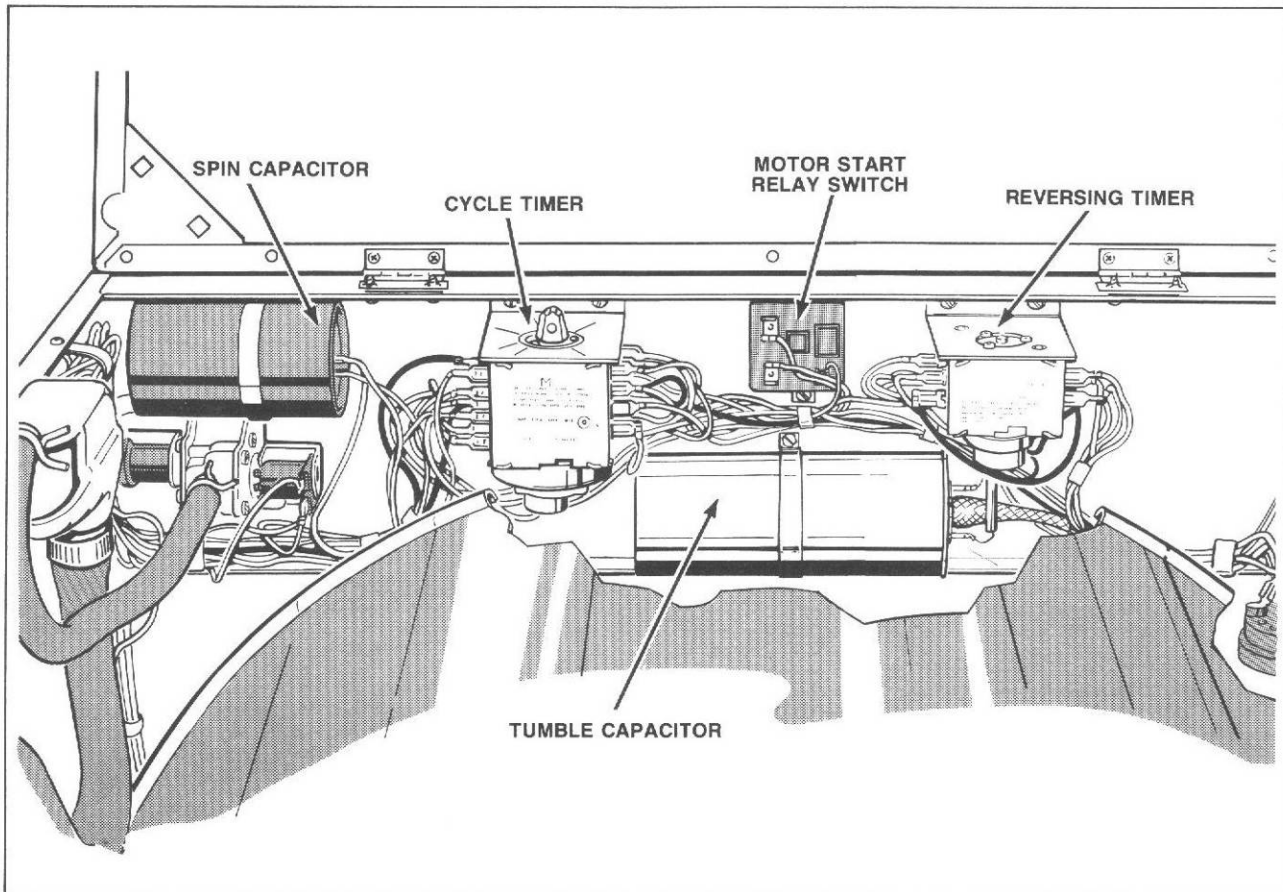


Figure 21

- c. Raise cabinet top assembly, paragraph 10, steps "c" through "e".
- d. Disconnect wires from relay.
- e. Remove screw holding switch to cross channel.

**23. CYCLE OR REVERSING TIMER ASSEMBLY**  
(Refer to Figure 21)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Raise cabinet top assembly, paragraph 10, steps "c" through "e".
- d. Cycle timer: Loosen setscrew holding knob to timer shaft.
- e. Remove three screws holding timer to bracket.
- f. Disconnect wires from timer.

**IMPORTANT:** When installing timer, refer to wiring diagram.

**TO REMOVE TIMER MOTOR (CYCLE TIMER)**

- a. Remove timer assembly.
- b. Remove two nuts holding timer motor to timer assembly.

**TO REMOVE TIMER ESCAPEMENT (CYCLE TIMER)**

- a. Remove timer motor.
- b. Remove three screws holding timer escapement to timer.

**24. TUMBLE OR SPIN CAPACITOR** (Refer to Figure 21)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Raise cabinet top assembly, paragraph 10, steps "c" through "e".

**WARNING**

Before handling capacitor, touch capacitor terminals with ends of insulated wire to discharge capacitor.

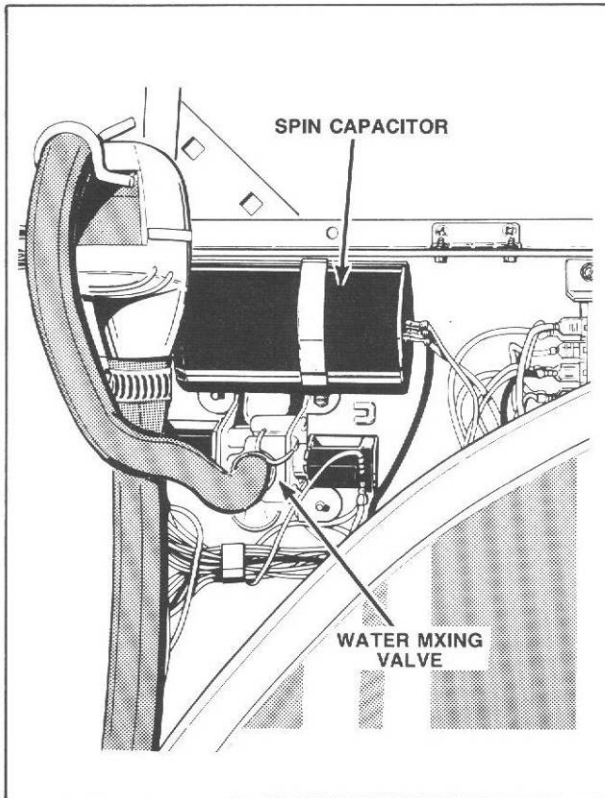


Figure 22

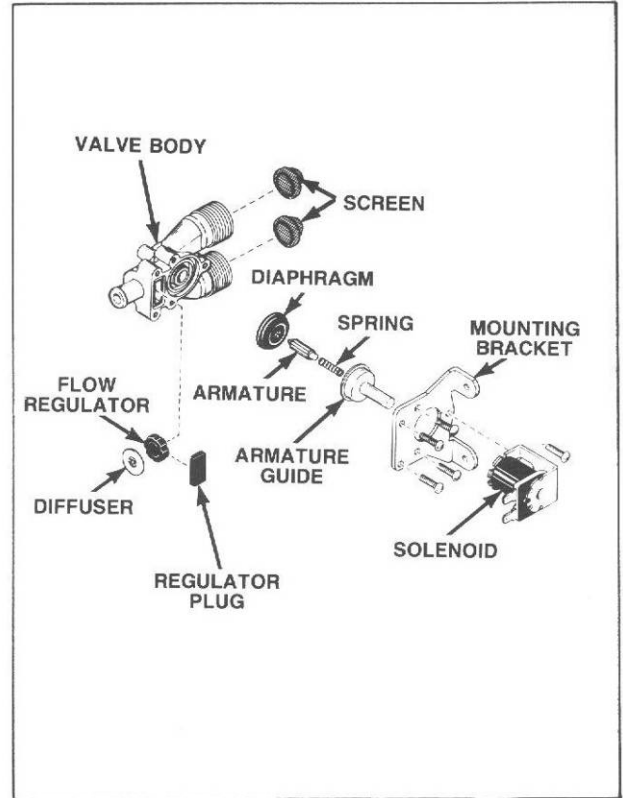


Figure 23

- d. Disconnect wires from capacitor.
- e. Remove capacitor clamp screw holding capacitor to cross channel.

**IMPORTANT:** When installing capacitor, refer to wiring diagram.

**25. WATER MIXING VALVE** (Refer to Figure 22)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Remove spin capacitor, paragraph 24, steps "c" through "e".
- d. Disconnect hoses and wires from mixing valve.
- e. Remove two screws holding water mixing valve to cross channel.

**NOTE:** Refer to Figure 23 for water mixing valve assembly sequence.

**26. WATER INLET** (Refer to Figure 24)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Raise cabinet top assembly, paragraph 10, steps "c" through "e".

(continued)

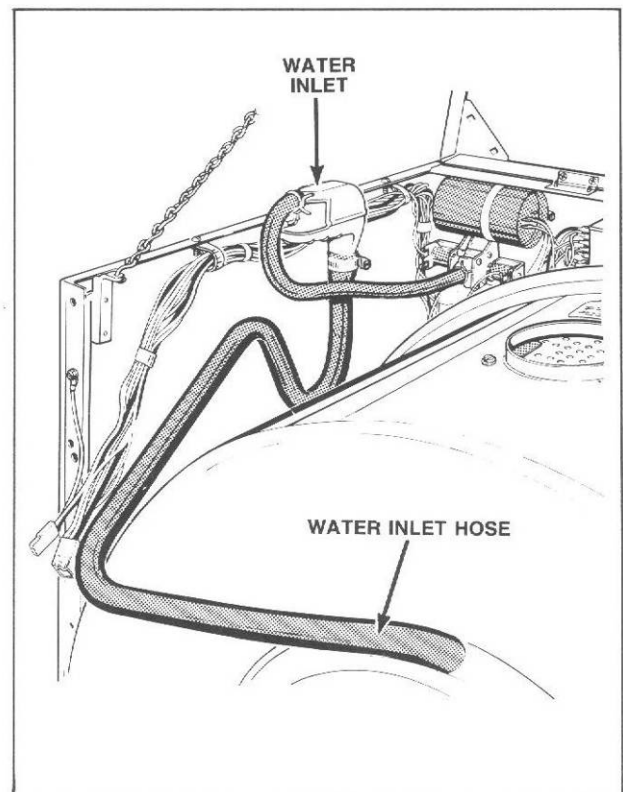


Figure 24

- d. Disconnect hoses from water inlet.
- e. Remove two screws and fiber washer holding water inlet to left side panel.

**NOTE:** When installing water inlet, be sure fiber washer is repositioned on rear screw between the inlet and flange of side panel. DO NOT over-tighten screws.

## 27. WATER INLET HOSE

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Remove air intake grille, paragraph 6.
- d. Remove front panel assembly, paragraph 12, steps "d" through "i".
- e. Raise cabinet top assembly, paragraph 10, steps "c" through "e".
- f. Disconnect water inlet hose from water inlet and from outer tub, *Figure 24*.

**NOTE:** Before installing hose in outer tub, apply rubber base cement to hose flange to assure a watertight seal.

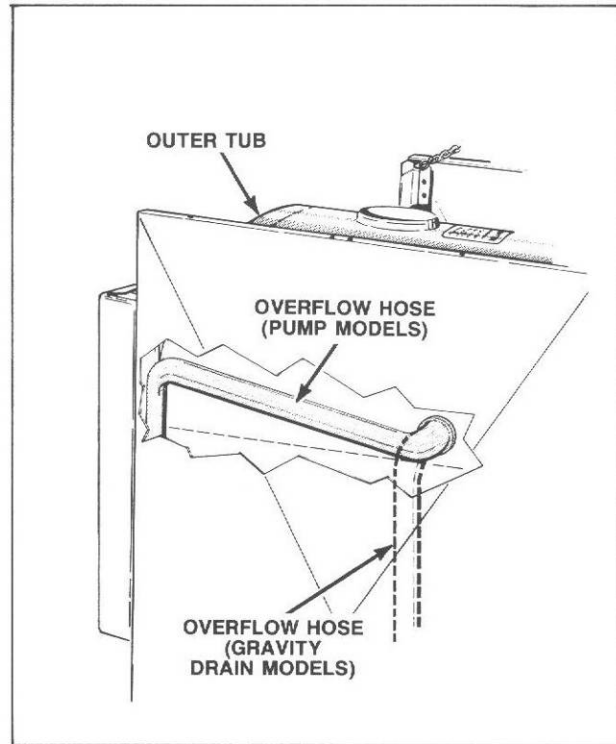


Figure 26

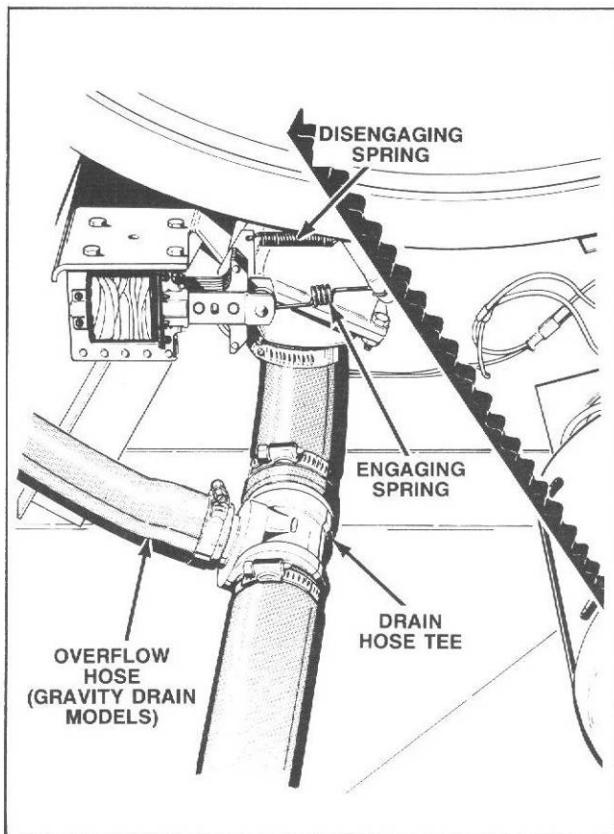


Figure 25

## 28. OVERFLOW HOSE

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Remove air intake grille, paragraph 6.
- d. Raise cabinet top assembly, paragraph 10, steps "c" through "e".
- e. Gravity Drain Models: Disconnect overflow hose from drain hose tee, *Figure 25*.
- f. Disconnect overflow hose from outer tub, *Figure 26*. Do not chip porcelain tub.

**NOTE:** Before installing hose in outer tub, apply rubber base cement to hose flange to assure watertight seal.

**IMPORTANT:** When reinstalling overflow hose (pump models), run hose on incline toward front of washer. See *Figure 26*.

## 29. CROSS CHANNEL ASSEMBLY

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Remove cabinet top assembly, paragraph 10, steps "c" through "f".
- d. Remove rear panel, *Figure 27*.
- e. Disconnect hoses from water mixing valve and from pressure switch.



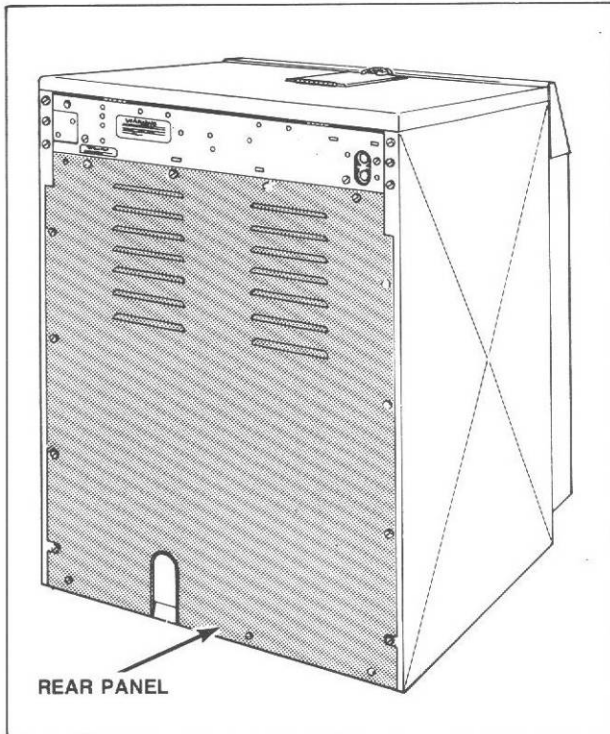


Figure 27

- f. Disconnect main wire harness at connectors, external ground wire from rear of cross channel and main wires from terminal block.

**IMPORTANT:** Refer to wiring diagram when connecting wires to terminal block. Tighten nuts securely.

- g. Remove cable clips from left side panel.  
 h. Disconnect drive motor wire harness at terminal block and blower motor wires at connectors, *Figure 28*.  
 i. Pump Models: Disconnect pump motor wires at connectors, *Figure 28*.  
 j. Remove three screws holding cross channel assembly to left side panel, and three screws holding assembly to right side panel.

### 30. DRIVE MOTOR AND BLOWER ASSEMBLY (Refer to *Figure 28*)

- a. Remove rear panel.  
 b. Run belt off cylinder pulley.  
 c. Disconnect motor wire harness at terminal block, and blower motor wires at connectors.  
 d. Remove two mounting plate pivot bolts and lockwashers, and allow assembly to pivot down and rest on washer base. Belt adjusting bolts may have to be loosened slightly.

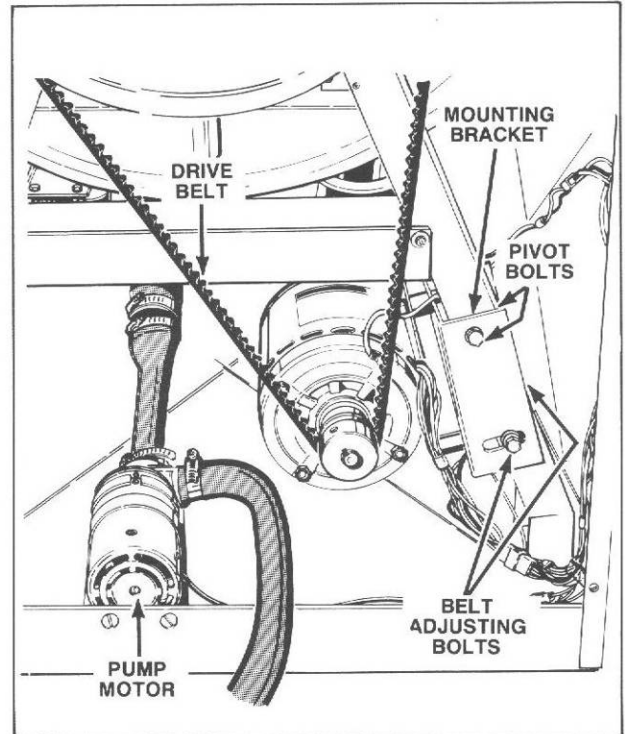


Figure 28

- e. Remove two belt adjusting bolts, washers and lockwashers and lift assembly out of washer.

**NOTE:** When reinstalling assembly, adjust belt per paragraph 39.

#### ATTENTION

The following is an alternate method for removing drive motor and blower assembly from Superload installed with an inadequate service area behind the washer. Refer to *Figure 29*.

- a. Remove coin drop, paragraph 1.  
 b. Remove control panel assembly, paragraph 3, steps "b" and "c".  
 c. Raise cabinet top assembly, paragraph 10, steps "c" through "e", and run belt off drive pulley.  
 d. Remove air intake grille, paragraph 6.  
 e. Disconnect wires from drain valve solenoid and blower assembly.  
 f. Disconnect motor wire harness at terminal block.  
 g. Remove two mounting bracket pivot bolts and lockwashers, and allow assembly to pivot down and rest on washer base. Belt adjusting bolts may have to be loosened slightly.  
 h. Remove two belt adjusting bolts, washers and lockwashers and carefully lift assembly out front of washer.

(continued)

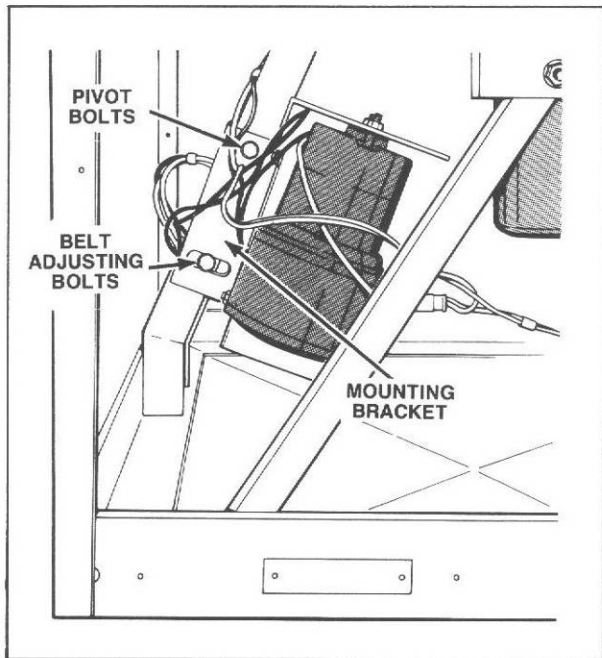


Figure 29

**IMPORTANT:** When reinstalling motor and blower assembly, tighten pivot and adjusting bolts up snug. Tap bottom of mounting bracket with hammer to tighten belt. Tighten adjusting bolts securely, then tighten pivot bolts. Proper belt tension is obtained when belt can be deflected approximately 1/2 inch from normal position when moderate pressure (5 lb.) is applied to a point midway between pulleys.

### 31. DRIVE MOTOR

- a. Remove rear panel.
- b. Run belt off cylinder pulley.
- c. Loosen motor pulley setscrews and remove pulley, *Figure 28*.

**NOTE:** Motor pulley is a press fit on motor shaft and may have to be removed by using a pulley puller. When reinstalling motor pulley, align motor pulley with cylinder pulley.

- d. Remove drive motor and blower assembly, paragraph 30.
- e. Loosen clamp holding flex duct to motor, *Figure 30*.
- f. Remove nut holding ground wire to motor and four nuts, washers and lockwashers holding drive motor to rubber motor mounts, *Figure 30*.

### 32. BLOWER ASSEMBLY (Refer to *Figure 30*)

- a. Remove drive motor and blower assembly, paragraph 30.

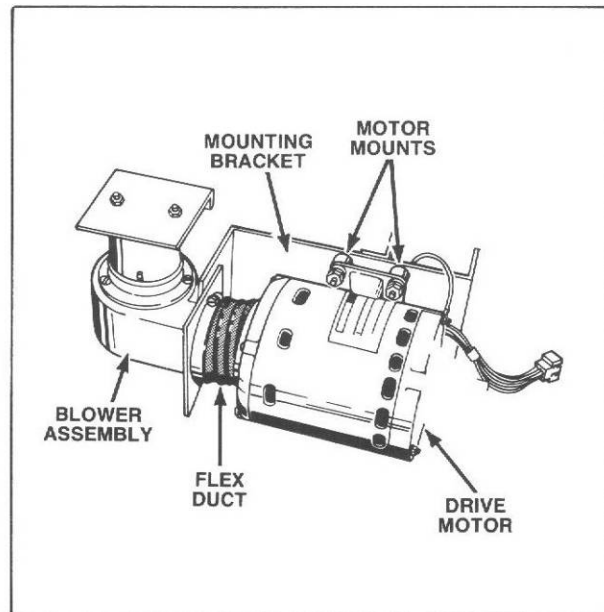


Figure 30

- b. Remove drive motor, paragraph 31, steps "e" and "f".
- c. Remove flex duct and three screws holding vent adapter to blower assembly.

### TO REMOVE BLOWER IMPELLER

- a. Remove drive motor and blower assembly, paragraph 30.
- b. Loosen impeller setscrew and pull impeller off blower motor shaft.

### 33. PUMP ASSEMBLY (Refer to *Figure 28*)

- a. Remove rear panel.
- b. Disconnect pump wires at connectors.
- c. Remove screw and nut holding ground wire to side panel.
- d. Disconnect hoses from pump.
- e. Remove two screws, nuts and lockwashers holding pump mounting bracket to washer base.
- f. Remove four screws holding pump assembly to mounting bracket.

**NOTE:** See *Figure 31* for pump assembly sequence.

**IMPORTANT:** Mark pump cover before disassembling so cover can be reinstalled in same position.

### 34. PULLEY AND HUB ASSEMBLY (Refer to *Figure 32*)

- a. Remove rear panel.
- b. Run belt off of pulley.

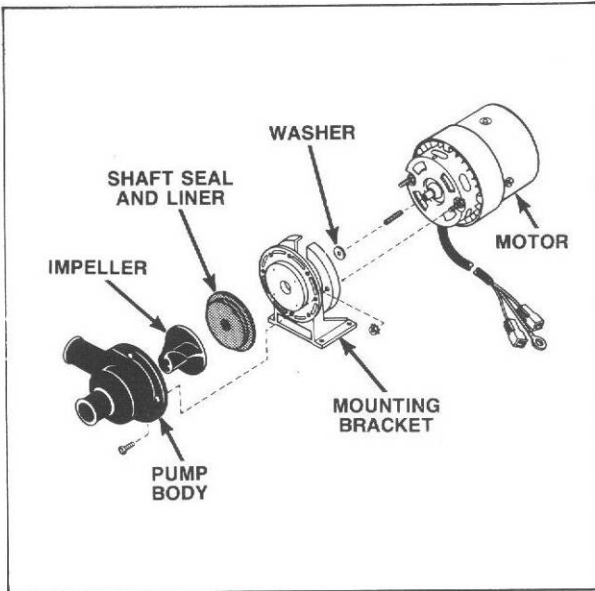


Figure 31

- c. Remove cap screw, lockwasher and washer from end of cylinder shaft.

**WARNING**

Touch tumble capacitor terminals with ends of insulated wire to discharge capacitor.

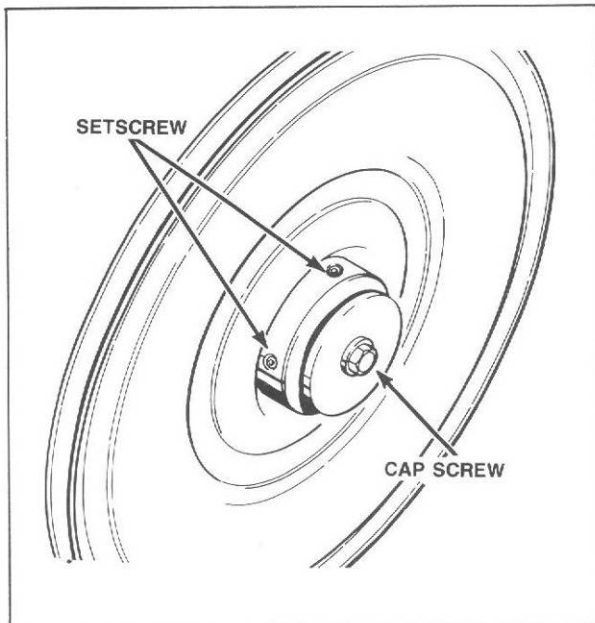


Figure 32

- d. Loosen two setscrews holding pulley and hub assembly to cylinder shaft and pull pulley off shaft.

**NOTE:** When reinstalling pulley, cap screw should be tightened before setscrews.

- e. Remove key from shaft.

**35. CLOTHES CYLINDER**

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Remove air intake grille, paragraph 6.
- d. Remove front panel assembly, paragraph 12, steps "d" through "e".
- e. Remove cabinet top assembly, paragraph 10, steps "c" through "f".
- f. Remove rear panel.
- g. Remove pulley and hub assembly, paragraph 34, steps "b" through "e".
- h. Disconnect water inlet hose from water inlet, *Figure 33*, and hose from pressure switch.
- i. Remove dispenser boot.
- j. Remove two screws holding water deflector to outer tub, *Figure 33*, and lift deflector out through dispenser opening.

(continued)

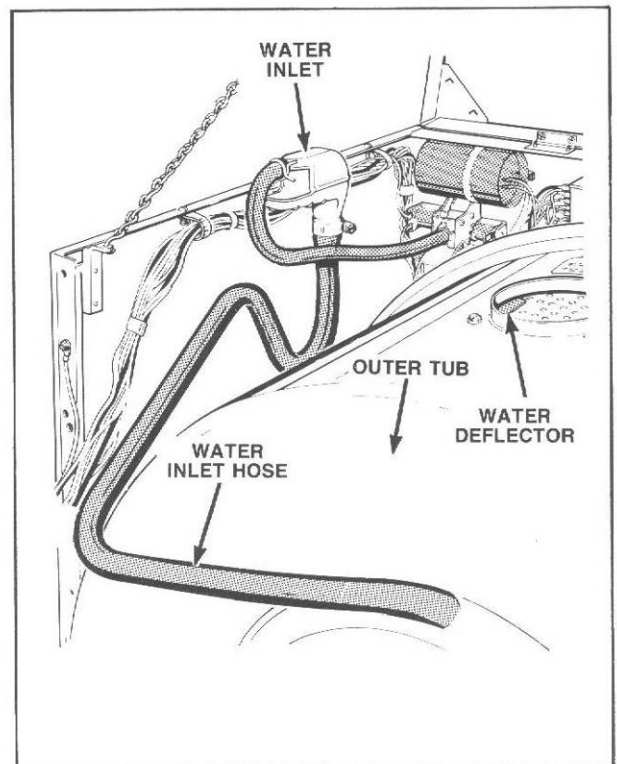


Figure 33

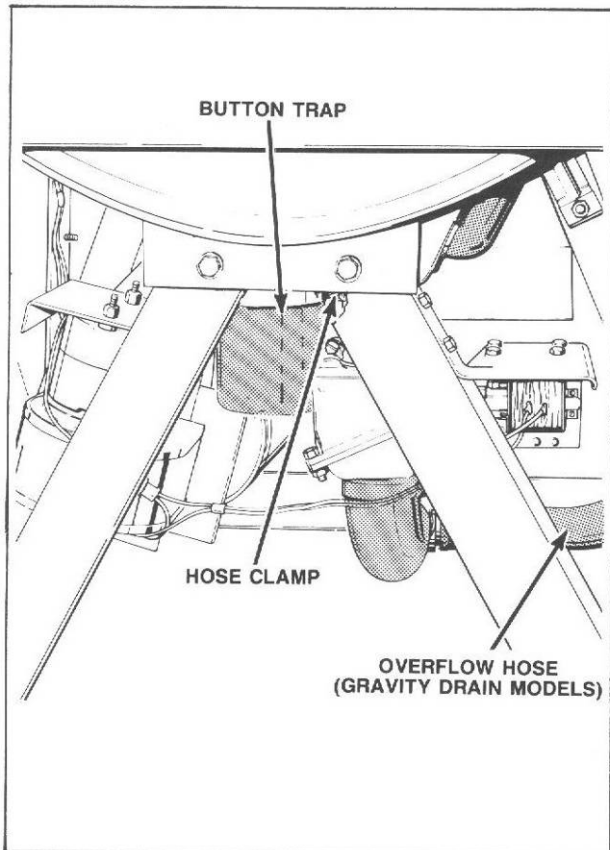


Figure 34

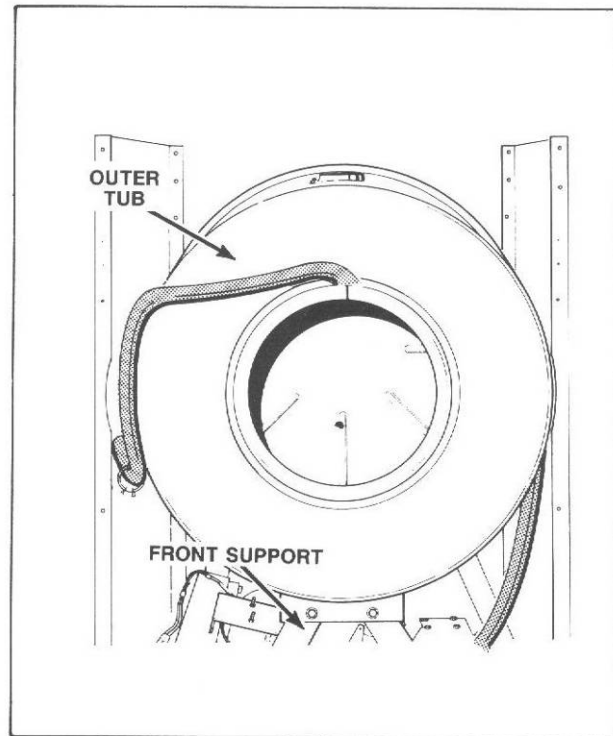


Figure 36

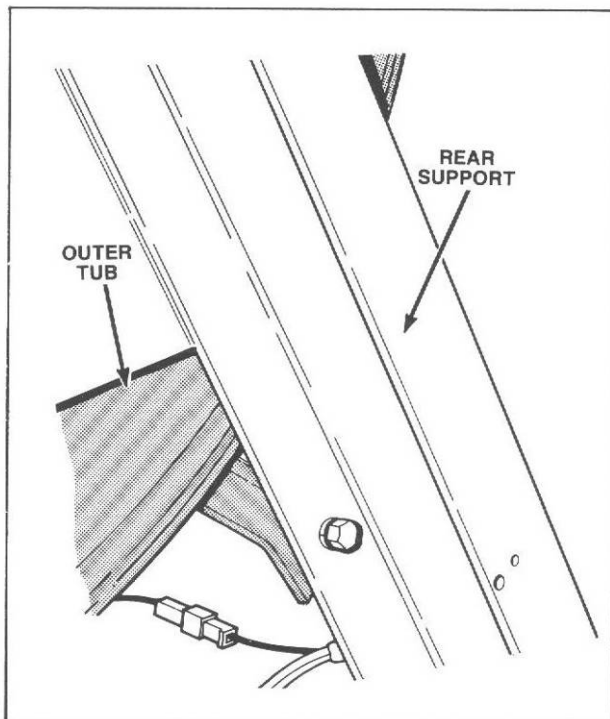


Figure 35

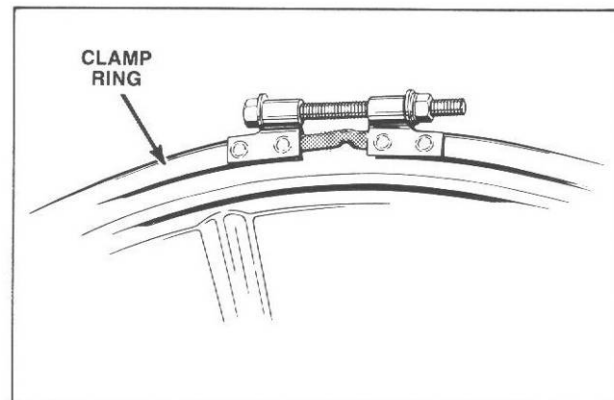


Figure 37

- k. Remove button trap and loosen hose clamp on tub outlet, *Figure 34*.
- l. Gravity Drain Models: Disconnect overflow hose from drain hose tee, *Figure 34*.
- m. Remove two screws, nuts, washers, and lockwashers holding outer tub to rear support, *Figure 35*.
- n. Remove two screws, nuts, washers, and lockwashers holding outer tub to front support, *Figure 36*.
- o. Remove clamp screw, nut, lockwasher and washers holding clamp ring to rear tub head assembly, *Figure 37*.

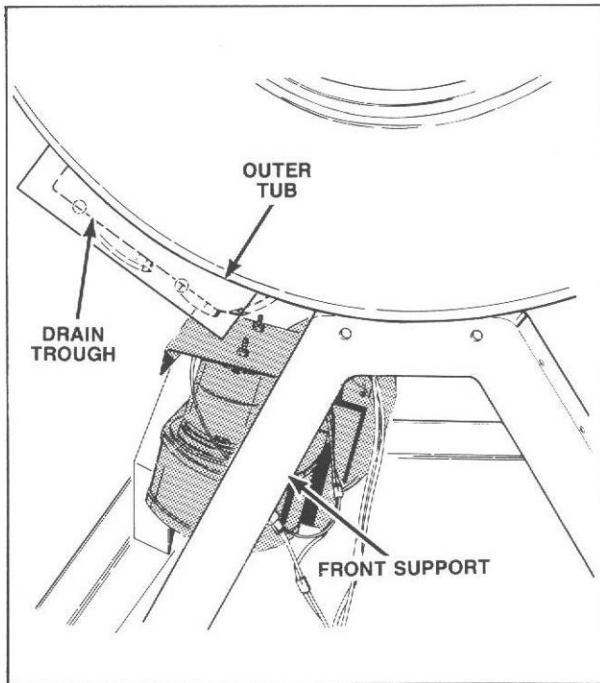


Figure 38

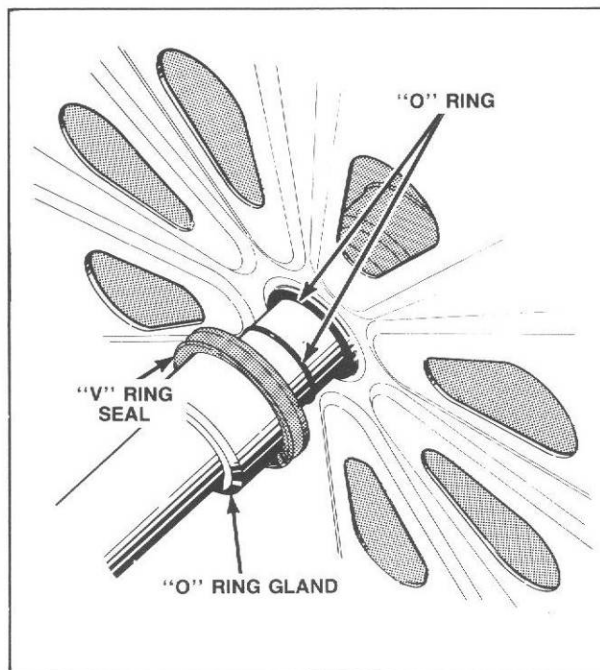


Figure 39

- p. Grasp outer tub at dispenser opening and loading door opening, rotate clockwise far enough for drain trough to clear front support, *Figure 38*, and pull outer tub off cylinder.
- q. Carefully pull cylinder and shaft out of bearing housing.

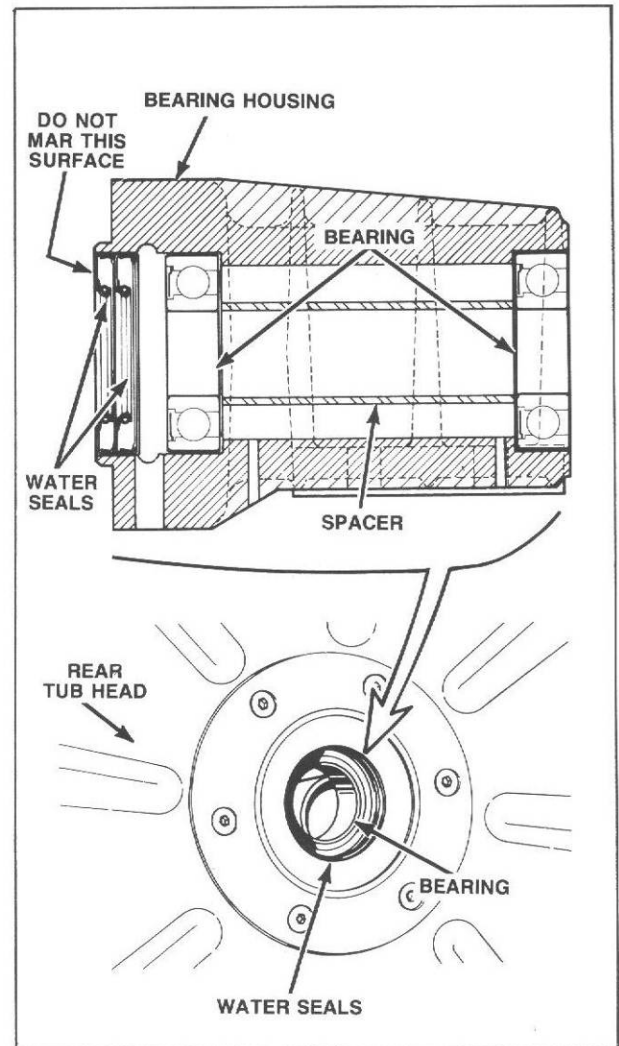


Figure 40

- r. Remove "O" ring gland, "V" ring seal and two "O" rings from cylinder shaft, *Figure 39*.

**IMPORTANT:** Install new "O" rings and "V" ring whenever clothes cylinder is removed. Lubricate inside of "O" rings before installing. Care must be taken that "O" rings are not cut or damaged and are in their normal (not inside-out) position when in place. Apply a bead of sealant, such as Dow Corning Silastic® 732-RTV or equivalent (these are clear silicone sealants), around the entire area where the "O" ring gland and the rear tub head meet. Then slide the "V" ring seal over the "O" ring gland and up against the rear tub head.

**36. REAR TUB HEAD** (*Refer to Figure 40*)

- a. Remove clothes cylinder, paragraph 35.
- b. Remove six screws, lockwashers, gasket retainer and gaskets holding rear tub head to bearing housing.

### 37. WATER SEALS

- a. Remove clothes cylinder, paragraph 35.
- b. Pry water seals out of bearing housing using pry bar, *Figure 40*.

**NOTE:** New seals should be installed with spring loaded lip facing in as shown in *Figure 40*.

**CAUTION:** Be careful when installing second water seal as not to mar the surface where the "V" ring seal contacts the water seal, *Figure 40*.

**IMPORTANT:** When installing new seals, apply a retaining compound such as Loctite® to outside diameter of seals to insure water-tight seal. Lubricate inside diameter of seals, and inside and outside diameter of "O" ring gland with No. 21814 Lubricant.

### 38. CYLINDER SHAFT BEARING

- a. Remove clothes cylinder, paragraph 35.
- b. Drive rear bearing out rear of bearing housing using hammer and hardwood dowel.
- c. Drive front bearing and both water seals out front of bearing housing using hammer and hardwood dowel. When replacing bearings, always install new water seals as per paragraph 37. Apply a retaining compound

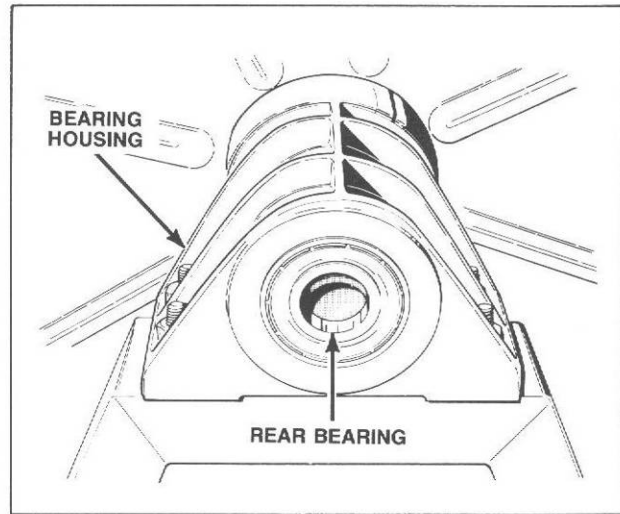


Figure 41

such as Loctite® to outside diameter of bearings, and install bearings with sealed side facing rear tub head, *Figure 41*.

**IMPORTANT:** If bearing housing is removed, leave mounting bolts slightly loose until outer tub is positioned to allow for proper alignment of cylinder to opening of outer tub. Then tighten bolts securely (approximately 100 foot lbs. of torque).

# SECTION III

## Adjustments

### WARNING

Disconnect electrical power to washer before performing any of the following adjustments.

#### 39. DRIVE BELT (Refer to Figure 42)

- Remove rear panel.
- Loosen four bolts holding motor mounting bracket to rear tub support.
- Move bracket to secure proper belt tension. Proper belt tension is obtained when belt can be deflected approximately 1/2 inch from normal position when moderate pressure (5 lb.) is applied to a point midway between pulleys.

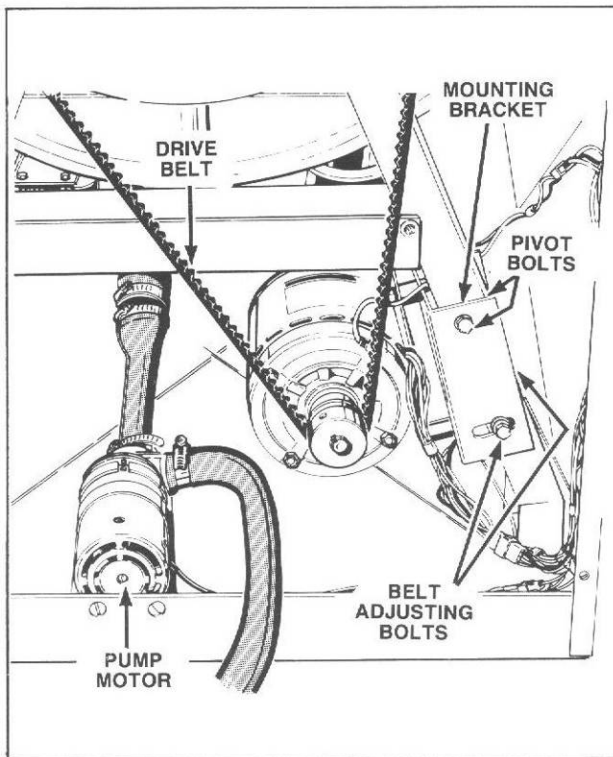


Figure 42

- Tighten belt adjusting bolts securely, then tighten pivot bolts.

#### 40. PRESSURE SWITCH (Refer to Figure 43)

- Remove pressure switch, paragraph 21, steps "a" through "c".
- Remove sealer from around pressure switch adjusting screw.
- Turn adjusting screw clockwise to increase water level in clothes cylinder and counterclockwise to decrease water level.

**NOTE:** 1/4 turn of adjusting screw represents approximately one inch increase or decrease of water level in clothes cylinder.

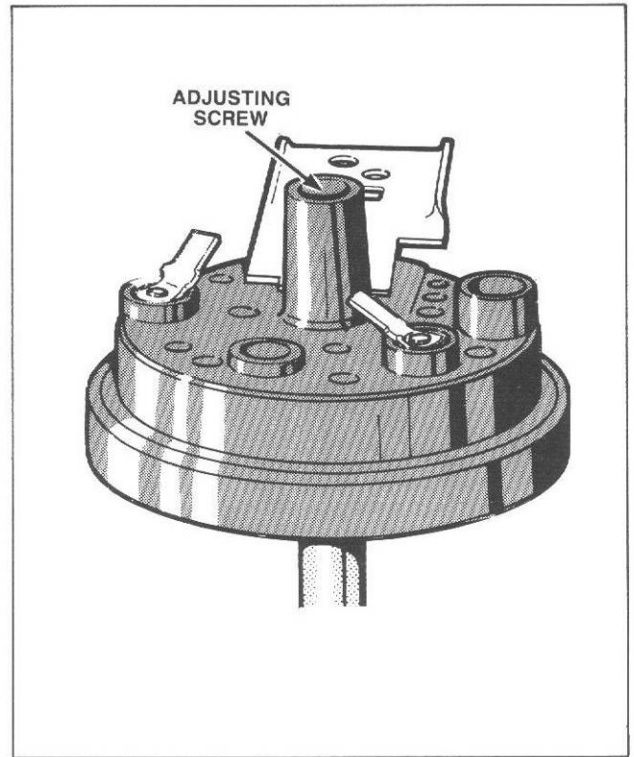


Figure 43

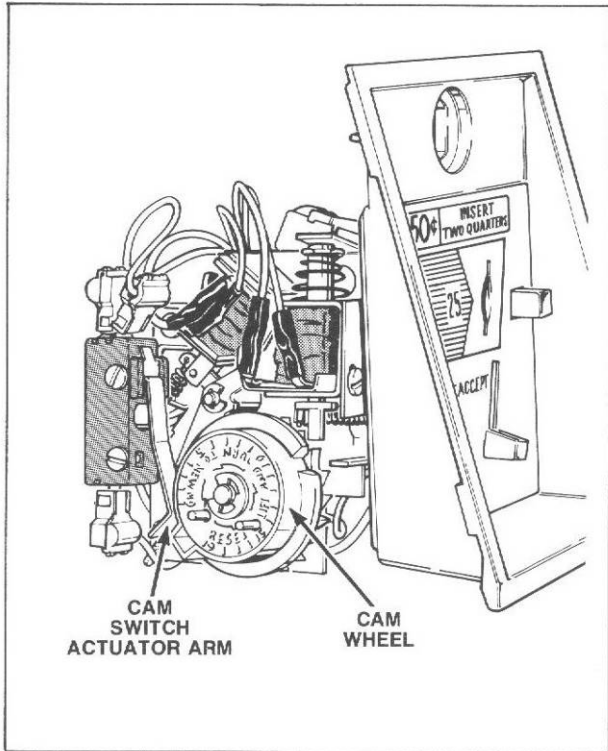


Figure 44

41. **ACCUMULATOR COIN DROP** (Refer to Figure 44)

- a. Remove coin drop, paragraph 1.
- b. Depress cam switch actuator arm.
- c. Pull out on cam wheel and turn to desired setting (number of coins per load) by aligning number with elbow in actuator arm.

42. **DOOR LOCK ASSEMBLY** (Refer to Figure 45)

**IMPORTANT:** Before making switch adjustment, be sure door handle and latch are aligned and setscrew is tight.

- a. Remove front panel assembly, paragraph 12.
- b. Loosen door safety switch attaching screws.
- c. Switch is properly adjusted when switch contacts "reset" with 1/16 inch clearance between door lock latch and door lock cam.
- d. Without moving switch, tighten nut on adjusting screw, then tighten remaining screw. **DO NOT** over-tighten screws.
- e. Loosen door lock switch attaching screws.
- f. Switch is properly adjusted when switch contacts "make" with a 1/16 inch clearance between door latch and door lock latch.
- g. Without moving switch, tighten nut on adjusting screw, then tighten remaining screw. **DO NOT** over-tighten screws.

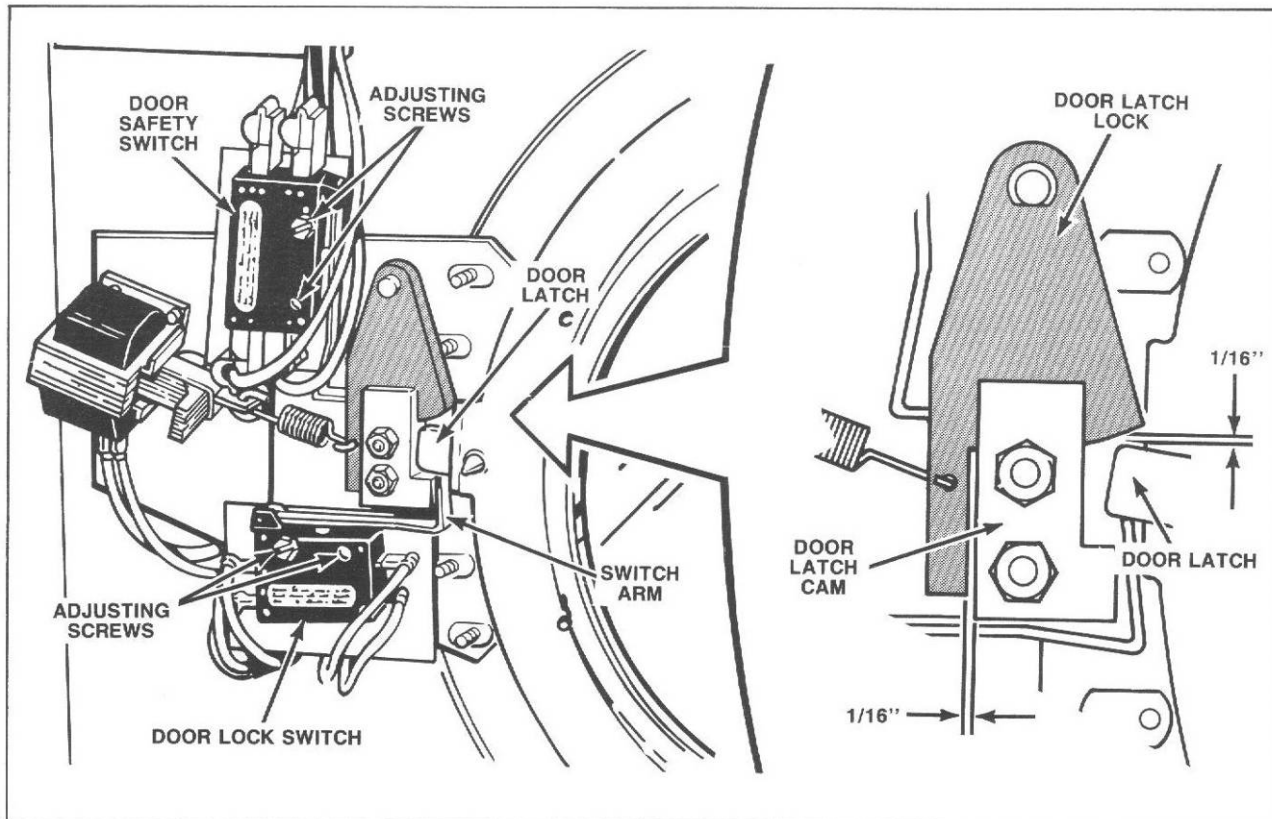


Figure 45



# SECTION IV

## Test Procedures

**NOTE: The following test procedures will concern both voltage and continuity checks.**

Voltage checks are taken by setting the meter on a Voltage AC scale that is higher than the expected reading. These voltage checks **MUST** be done while the washer-extractor is operating. Components must be checked while they are normally energized during the cycle.

Continuity checks are taken by setting the meter on an Ohms scale. The washer-extractor **MUST** be shut off and the electrical power to the unit **MUST** be disconnected. When making a continuity check, always disconnect at least one wire to any two points being checked.

**IMPORTANT: Electrical test procedures in this manual are performed using a Volt-Ohm meter. Test can also be performed using a multimeter or any other electrical testing equipment with which the service person is familiar.**

### 43. ACCUMULATOR COIN DROP (Refer to Figure 46)

- a. Remove accumulator coin drop, paragraph 1.
- b. CAM SWITCH - with ratchet wheel in the prestart position, continuity should be read from COM. (black) to N.C. (pink). No continuity from COM. (black) to N.O. (brown). Depressing the cam switch actuator arm should cause these readings to be the opposite.
- c. ADVANCE SOLENOID - For voltage check, place meter probes on the two solenoid terminals. Depress coin drop wire and you should have 120 Volt reading. For continuity check, meter should read approximately 50  $\Omega$  (Ohms).
- d. RELEASE SOLENOID - For voltage check, place meter probes on the two solenoid terminals. When softener light comes on, you should have a 120 Volt reading. For continuity check, meter should read approximately 700  $\Omega$  (Ohms).

### 44. START SWITCH (Refer to Figure 47)

- a. Remove start switch, paragraph 2.
- b. For continuity check, place meter probes to COM. (common) and N.C. (normally closed) terminals. Reset switch contacts, place meter

probes to COM. (common) and N.O. (normally open) terminals.

- c. SOLENOID - For voltage check, place meter probes to solenoid terminal, meter should read 120 Volts when softener light comes on. For continuity check, meter should read approximately 1800  $\Omega$  (Ohms).

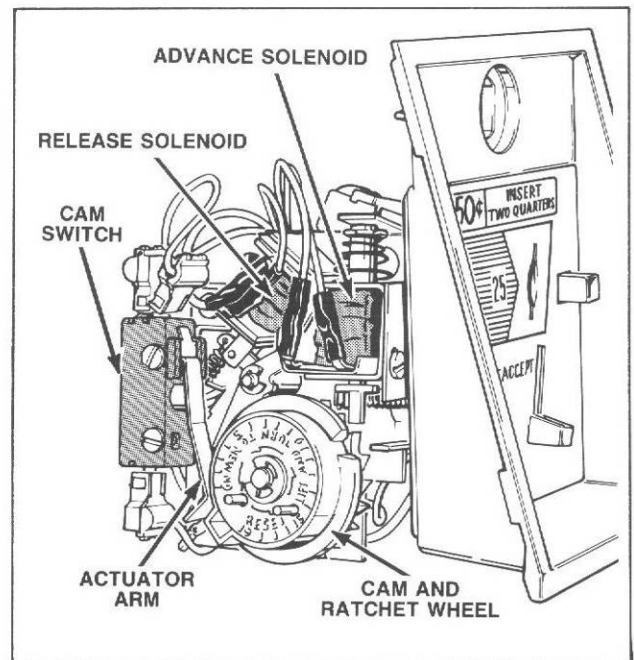


Figure 46

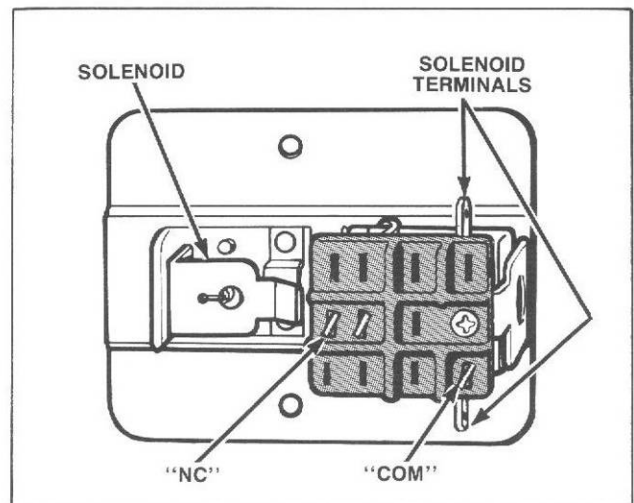


Figure 47

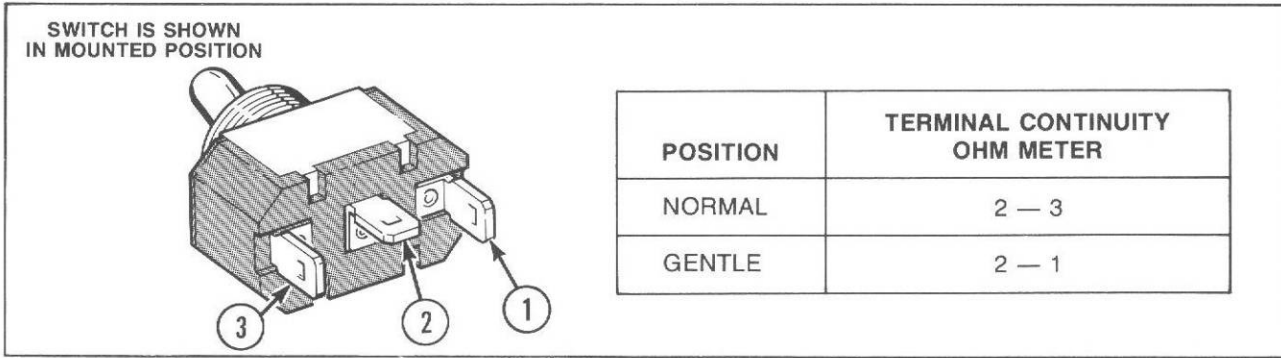


Figure 48

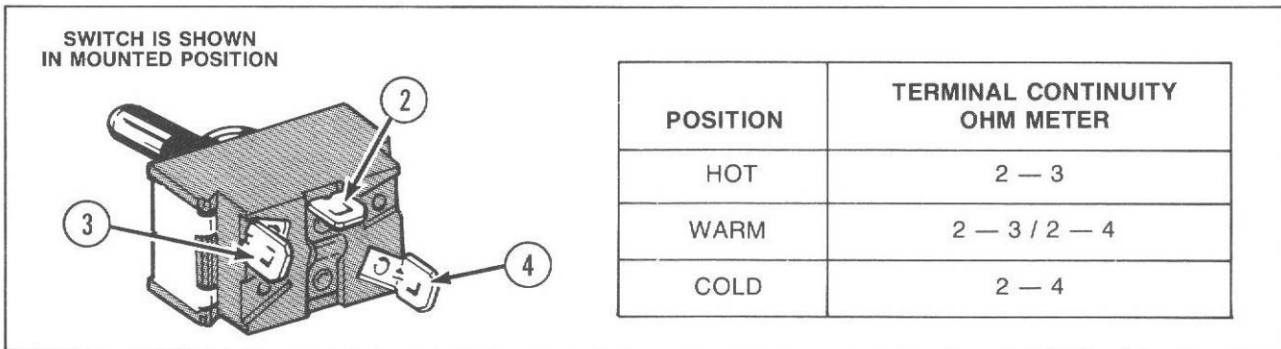


Figure 49

**45. ON, DETERGENT, BLEACH, or SOFTENER LIGHT**

- Remove control panel assembly, paragraph 3.
- For voltage check, place one meter probe on the colored wire, leading to the light and the other probe to a known ground. If meter reads 120 Volts but light does not glow, replace the light.

**NOTE:** This check must be done when the light is normally lit during the cycle. Refer to wiring diagram.

**46. ACTION SWITCH**

- Remove control panel assembly, paragraph 3.
- Disconnect wires from switch.
- Apply meter probes to terminals indicated in *Figure 48* for continuity check.

**47. WASH TEMPERATURE SWITCH**

- Remove control panel assembly, paragraph 3.
- Disconnect wires from switch.
- Apply meter probes to terminals indicated in *Figure 49* for continuity check.

**48. DRAIN VALVE SOLENOID (Refer to Figure 50)**

- Remove air intake grille, paragraph 6.
- For voltage check, apply meter probes to

solenoid terminals. Meter should read 120 Volts during wash cycle. For continuity check, meter should read approximately 4  $\Omega$  (Ohms).

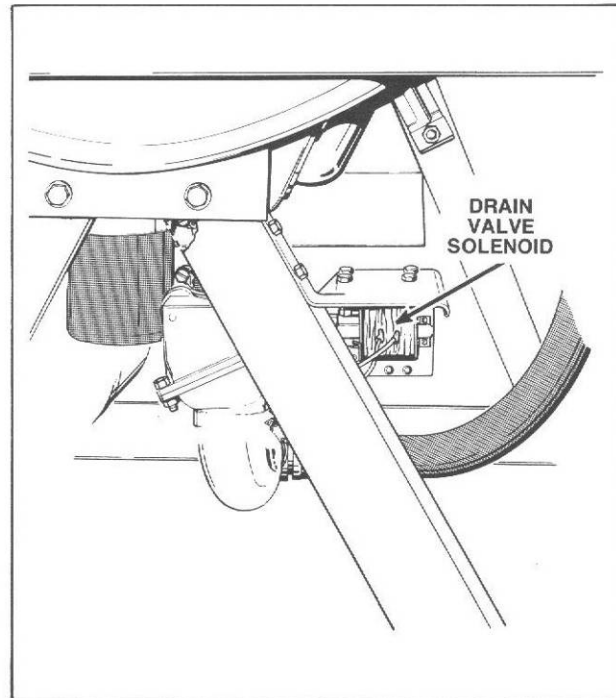


Figure 50

49. DOOR LOCK ASSEMBLY (Refer to Figure 51)

**NOTE:** The following checks are made by removing the control panel and disconnecting the harness at the Molex plug. However, the assembly can be removed and each component checked separately.

- a. DOOR LOCK SOLENOID - For continuity check, apply meter probes to WHITE and PINK wires at Molex plug, meter should read approximately 120  $\Omega$  (Ohms).
- b. DOOR LOCK AND SAFETY SWITCH - For continuity check, apply meter probes to YELLOW and ORANGE wires at Molex plug, meter should read a closed circuit with the door CLOSED.

50. PRESSURE SWITCH (Refer to Figure 52)

- a. Remove pressure switch, paragraph 21, steps "a" through "e".
- b. Attach a short length of hose to pressure switch.
- c. For continuity check, apply meter probes to terminals on pressure switch, meter reading should be a closed circuit.
- d. Blow gently into hose until a distinct "click" is heard, meter should now read an open circuit.

51. MOTOR START RELAY SWITCH (Refer to Figure 53)

The relay switch is an enclosed, voltage type relay. It cannot be accurately tested in the field. If the relay is suspected to be faulty, (see paragraph 67 or 68), install a relay

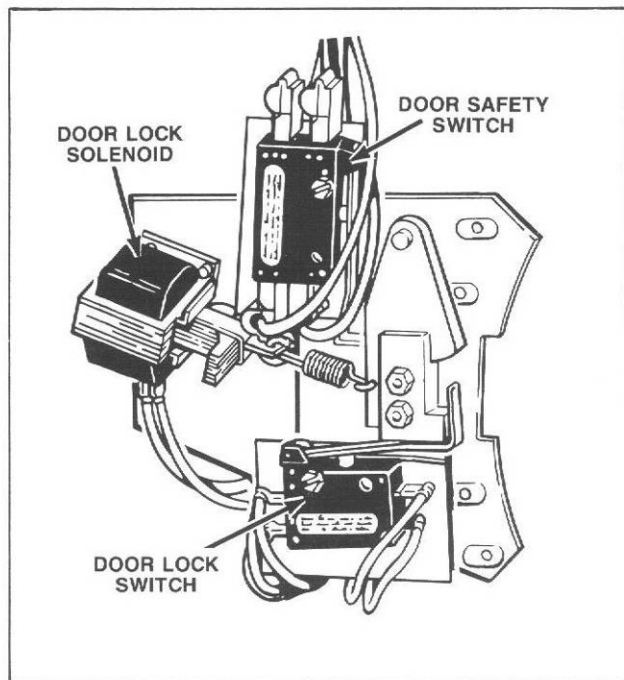


Figure 51

known to be good and start washer in the last spin portion of cycle to check for proper operation. If washer operation is satisfactory, assume that original relay is faulty. If problem persists, reinstall original relay and check out other possible causes.

52. TUMBLE OR SPIN CAPACITOR

- a. Remove capacitor, paragraph 24.
- b. Check capacitor visually for ruptures or corrosion.
- c. Discharge capacitor by shorting across terminals with an insulated screwdriver.
- d. Remove wires (and resistor if present) from capacitor.
- e. For continuity test, set meter in highest scale and apply probes to capacitor terminals. Needle on meter should read closed circuit initially and slowly return back to an open circuit reading.

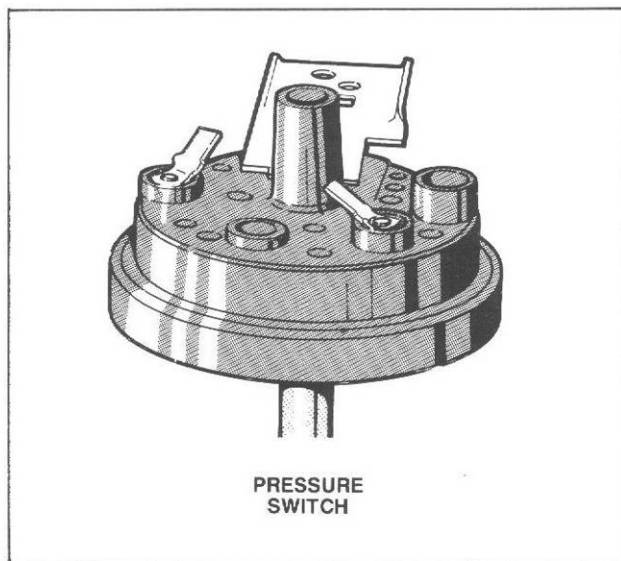


Figure 52

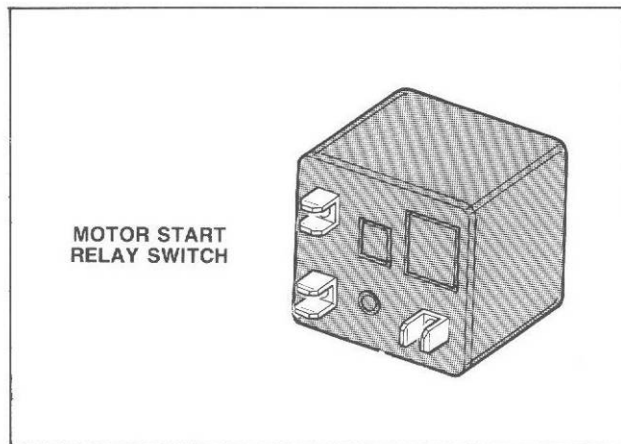


Figure 53

- f. TUMBLE CAPACITOR ONLY - For continuity check, apply one meter probe to capacitor casing and the other to each terminal, all readings should be open.
- g. TUMBLE CAPACITOR RESISTOR - For continuity check, apply meter probes to resistor terminals, meter should read approximately 50,000  $\Omega$  (Ohms).

**53. TIMER MOTOR (Cycle or Reversing Timer)**

- a. Remove timer motor, paragraph 23.

- b. For continuity check, apply meter probes to each timer motor wire terminals, meter should read approximately 3,000  $\Omega$  (Ohms).
- c. Apply live power to timer motor wire terminals, timer motor should run.

**54. CYCLE TIMER**

- a. Remove timer, paragraph 23.
- b. Disconnect wires from timer terminals.
- c. Apply meter probes to timer terminals indicated in *Figure 54* for continuity check.

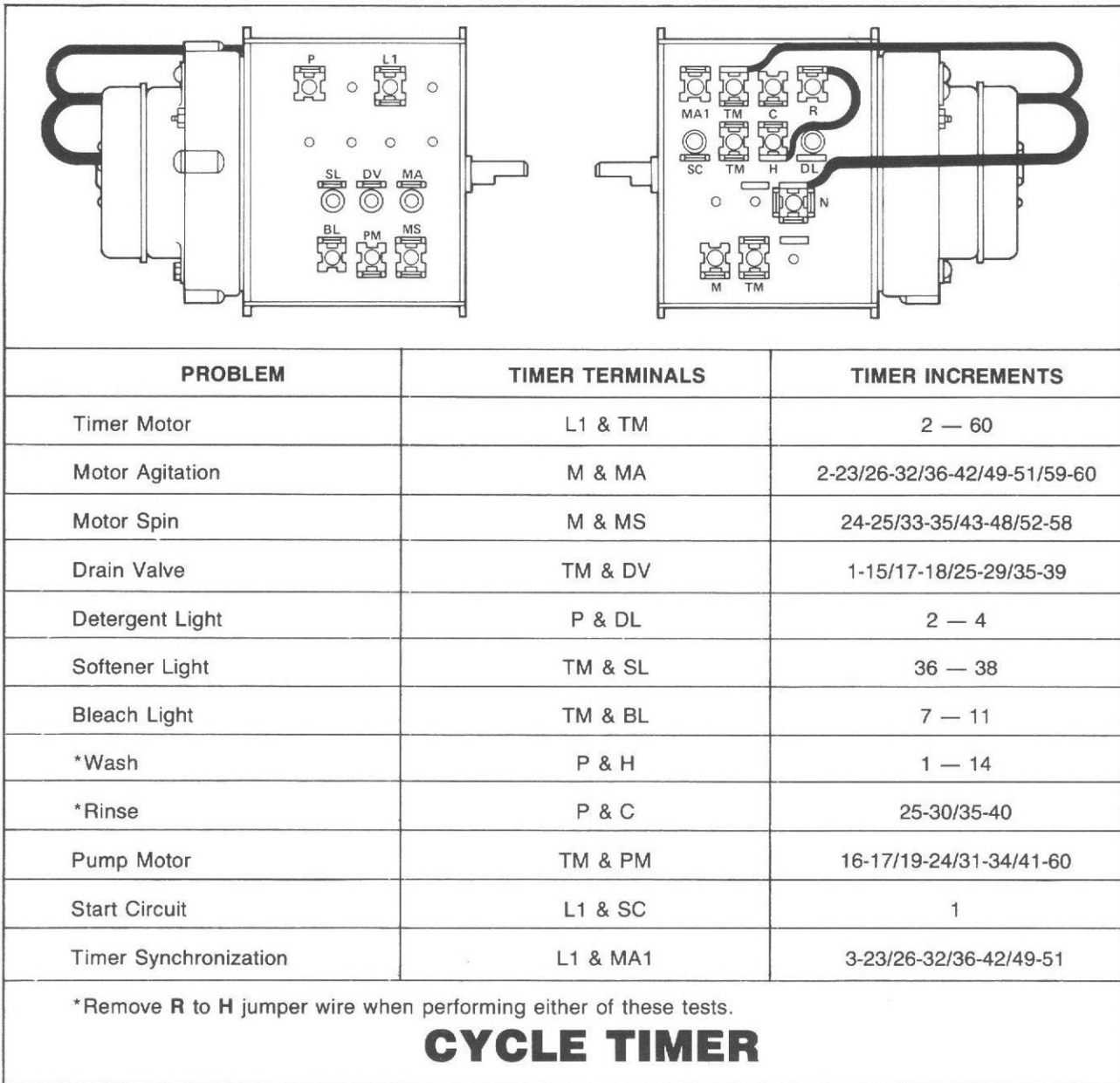


Figure 54

**55. REVERSING TIMER**

- a. Remove timer, paragraph 23.
- b. Disconnect wires from timer terminals.
- c. Apply meter probes to timer terminals indicated in *Figure 55* for continuity check.

**NOTE:** During the agitation portion of the cycle, the center screw should revolve once every two minutes.

**56. MIXING VALVE SOLENOID**

- a. Raise cabinet top assembly, paragraph 10.
- b. Remove wires from solenoid.
- c. For voltage check, apply meter probes to

solenoid terminals, meter should read 120 Volts.

- d. For continuity check, apply meter probes to solenoid terminals, meter should read approximately 600 Ω (Ohms).

**57. BLOWER MOTOR**

- a. Remove air intake grille, paragraph 6.
- b. Disconnect blower motor wire leads at connectors.
- c. For voltage check, apply meter probes to motor leads, meter should read 120 Volts.
- d. For continuity check, apply meter probes to motor leads, meter should read approximately 10 Ω (Ohms).

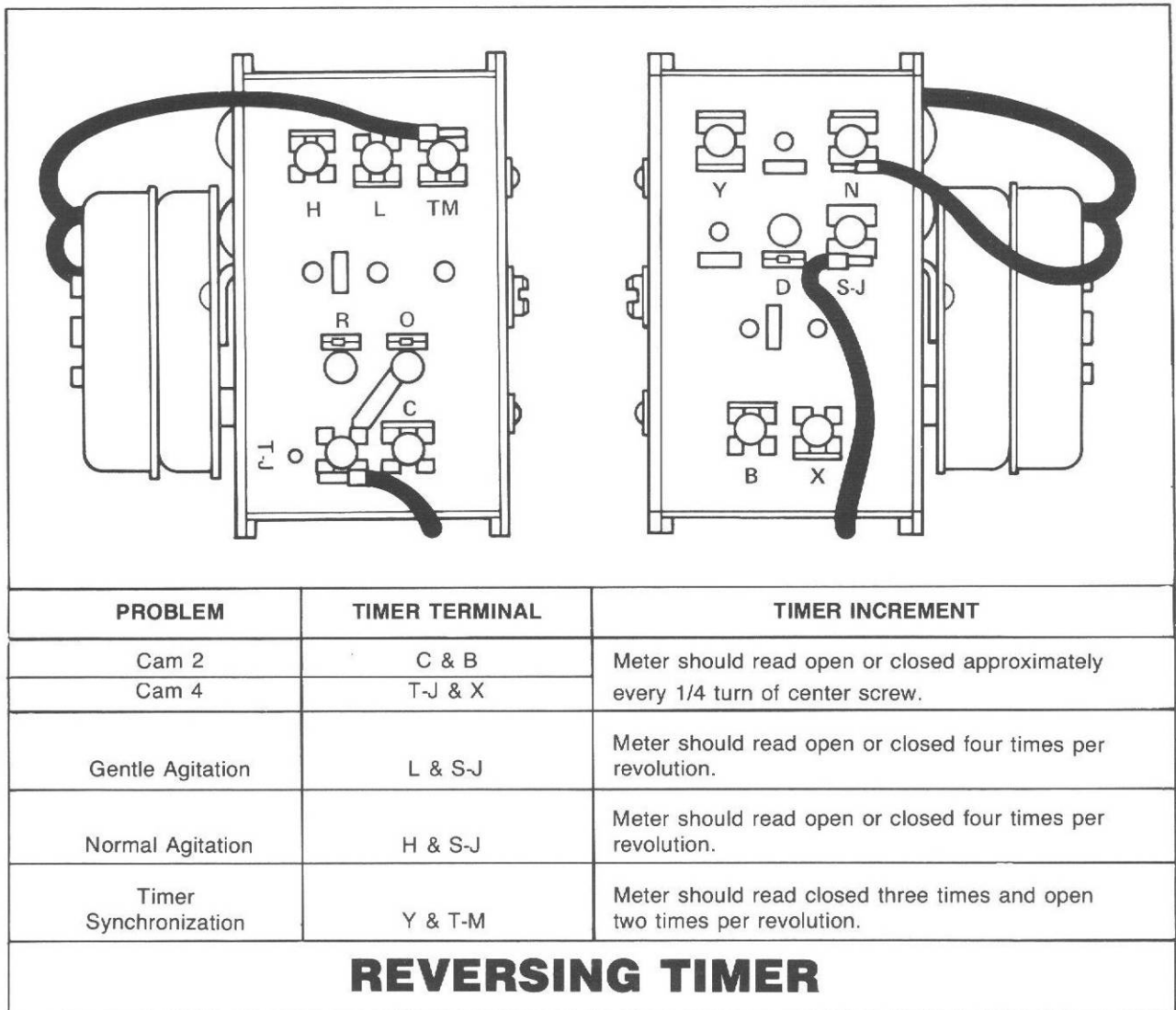


Figure 55

**58. PUMP MOTOR** (Refer to Figure 56)

- a. Remove rear panel.
- b. Disconnect motor wire leads at connectors.
- c. For voltage check, apply meter probes to motor leads, meter reading should be 120 Volts.
- d. For continuity check, apply meter probes to motor leads, meter should read approximately 4  $\Omega$  (Ohms).

**59. DRIVE MOTOR** (Refer to Figure 56)

- a. Remove rear panel.
- b. Disconnect motor wire harness at terminal block.

**NOTE:** Number 188P4 Motor Testing Kit is available for testing motor right in washer in a matter of minutes. Also, a number 81483 Service Harness is available for checking the motor by using it in conjunction with an adjacent Superload Washer-Extractor.

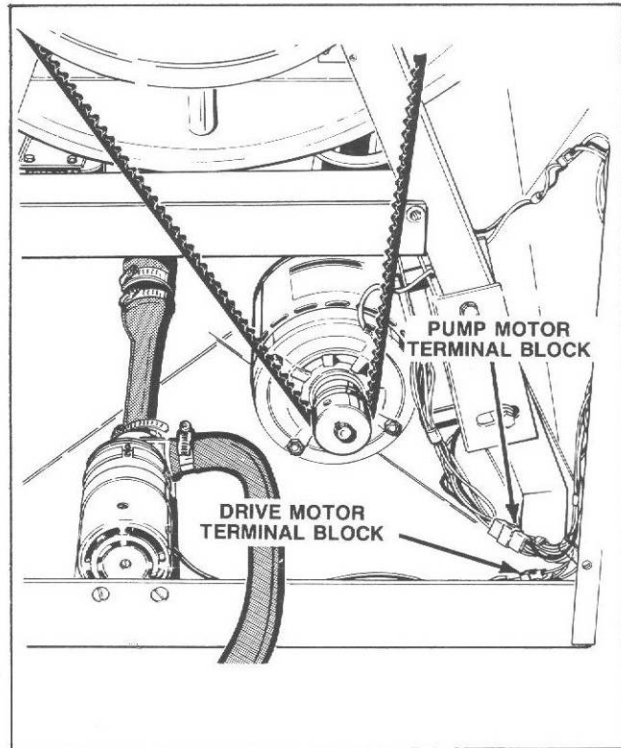


Figure 56

# SECTION V

## Service Helps

### 60. WASHER DOES NOT START

POSSIBLE CAUSE	TO CORRECT
Electric power disconnected or fuse blown.	Connect electrical power or replace fuse.
Inoperative start switch (Nonmetered Models)	Test start switch, paragraph 44, and replace if inoperative, paragraph 2.
Accumulator Coin Drop (Metered Models) A. Coin drop does not accept coins. (1) Inoperative blocking solenoid. B. Coin drop does accept coins. (1) Inoperative coin switch. (2) Inoperative advance solenoid. (3) Bent coin switch trip wire. (4) Ratchet binding. (5) Advance solenoid plunger binding. (6) Advance solenoid does not pivot.	Check out accumulator coin drop per paragraph 43.
Improperly adjusted door lock switch.	Adjust switch, paragraph 42.
Inoperative door lock switch.	Test switch, paragraph 49, and replace if inoperative, paragraph 15.
Improperly adjusted door safety switch.	Adjust switch, paragraph 42.
Inoperative door safety switch.	Test switch, paragraph 49, and replace if inoperative, paragraph 15.
Inoperative timer.	Test timer start circuit, paragraph 54, and replace if inoperative.
Broken, loose or incorrect wiring.	Check wiring against wiring diagram.

**61. CYLINDER DOES NOT FILL**

POSSIBLE CAUSE	TO CORRECT
No hot water.	Refer to paragraph 62.
No cold water.	Refer to paragraph 63.
Inoperative pressure switch.	Test switch, paragraph 50, and replace if inoperative, paragraph 21.
Improperly adjusted pressure switch.	Adjust switch, paragraph 40.
Inoperative cycle timer.	Test timer, paragraph 54, and replace if inoperative, paragraph 23.
Inoperative drain valve solenoid.	Test solenoid, paragraph 48, and replace if inoperative, paragraph 19.
Broken, weak or disconnected drain valve engaging spring.	Replace or connect spring. See <i>Figure 25</i> .
Obstruction in drain valve.	Clean valve. See <i>Figure 19</i> .
Broken, loose or incorrect wiring.	Refer to wiring diagram.

**62. NO HOT WATER**

POSSIBLE CAUSE	TO CORRECT
Water supply is cold.	Check water heater.
Hot water supply line closed.	Check for closed valve, kinked hose or obstruction in line.
Clogged water mixing valve inlet screen.	Remove and clean or replace screens. See <i>Figure 23</i> .
WASH TEMPERATURE switch improperly set or inoperative.	Set switch or test switch, paragraph 47, and replace if inoperative, paragraph 5.
Inoperative hot water solenoid.	Test solenoid, paragraph 56, and replace if inoperative, See <i>Figure 23</i> .
Inoperative cycle timer.	Test timer, paragraph 54, and replace if inoperative, paragraph 23.
Broken, loose or incorrect wiring.	Refer to wiring diagram.



**63. NO COLD WATER**

POSSIBLE CAUSE	TO CORRECT
Cold water supply line closed.	Check for closed valve, kinked hose or obstruction in line.
Clogged water mixing valve inlet screen.	Remove and clean, or replace screens. See <i>Figure 23</i> .
WASH TEMPERATURE switch improperly set or inoperative.	Set switch or test switch, paragraph 47, and replace if inoperative, paragraph 5.
Inoperative cold water solenoid.	Test solenoid, paragraph 56, and replace if inoperative. See <i>Figure 23</i> .
Inoperative cycle timer.	Test timer, paragraph 54, and replace if inoperative, paragraph 23.
Broken, loose or incorrect wiring.	Refer to wiring diagram.

**64. NO WARM WATER**

POSSIBLE CAUSE	TO CORRECT
No hot water.	Refer to paragraph 62.
No cold water.	Refer to paragraph 63.

**65. WATER DOES NOT SHUT OFF**

POSSIBLE CAUSE	TO CORRECT
Sediment in water mixing valve.	Disassemble and clean. See <i>Figure 23</i> .
Weak or broken armature spring in water mixing valve.	Replace spring. See <i>Figure 23</i> .
Inoperative pressure switch.	Test switch, paragraph 50, and replace if inoperative, paragraph 21.
Improperly adjusted pressure switch.	Adjust switch, paragraph 40.
Incorrect wiring.	Refer to wiring diagram.

**66. WATER DOES NOT DRAIN FROM CLOTHES CYLINDER**

<b>POSSIBLE CAUSE</b>	<b>TO CORRECT</b>
Obstruction in drain valve.	Clean valve. See <i>Figure 19</i> .
Kinked drain hose.	Straighten drain hose.
Pump Models: Obstruction in pump.	Clean pump. See <i>Figure 31</i> .
Pump Models: Inoperative pump motor.	Test pump motor, paragraph 58, and replace if inoperative, paragraph 33.
Inoperative cycle timer.	Test timer, paragraph 54, and replace if inoperative, paragraph 23.
Broken, weak or disconnected drain valve disengaging spring.	Replace or connect spring. See <i>Figure 25</i> .
Incorrect wiring.	Refer to wiring diagram.

**67. DRIVE MOTOR DOES NOT RUN**

<b>POSSIBLE CAUSE</b>	<b>TO CORRECT</b>
No electrical power.	Check fuses, switch box and power cord.
Inoperative cycle timer.	Test timer, paragraph 54, and replace if inoperative, paragraph 23.
Inoperative reversing timer.	Test timer, paragraph 55, and replace if inoperative, paragraph 23.
Inoperative action switch.	Test switch, paragraph 46, and replace if inoperative, paragraph 5.
Improperly adjusted door lock switch.	Adjust switch, paragraph 42.
Inoperative door lock switch.	Test switch, paragraph 49, and replace if inoperative, paragraph 15.
Improperly adjusted door safety switch.	Adjust switch, paragraph 42.
Inoperative door safety switch.	Test switch, paragraph 49, and replace if inoperative, paragraph 15.
Motor overload protector has cycled.	Wait two or three minutes for overload protector to reset. If protector cycles repeatedly, refer to paragraph 68.
Inoperative capacitor(s).	Test capacitor(s), paragraph 52, and replace if inoperative, paragraph 24.
Inoperative drive motor.	Test motor, paragraph 59, and replace if inoperative, paragraph 31.
Broken, loose or incorrect wiring.	Refer to wiring diagram.
Inoperative motor start relay switch.	Refer to paragraph 51.

**68. MOTOR OVERLOAD PROTECTOR CYCLES REPEATEDLY**

<b>POSSIBLE CAUSE</b>	<b>TO CORRECT</b>
Low voltage.	Refer to <b>SPECIFICATIONS</b> , page 4, for electrical requirements.
Belt is too tight.	Adjust belt, paragraph 39.
Inoperative overload protector.	Replace drive motor, paragraph 31.
Water does not drain from clothes cylinder.	Refer to paragraph 66.
Inoperative blower motor.	Test blower motor, paragraph 57, and replace if inoperative, paragraph 32.
Inoperative motor start relay switch.	Refer to paragraph 51.

**69. CYLINDER DOES NOT TURN**

<b>POSSIBLE CAUSE</b>	<b>TO CORRECT</b>
Drive motor does not run.	Refer to paragraph 67.
Loose or broken drive belt.	Adjust belt, paragraph 39, or replace belt.

**70. CYCLE TIMER DOES NOT ADVANCE**

<b>POSSIBLE CAUSE</b>	<b>TO CORRECT</b>
Inoperative timer motor.	Test timer motor, paragraph 53, and replace if inoperative, paragraph 23.
Inoperative timer escapement.	If timer motor operates correctly but timer does not advance, replace escapement, paragraph 23.

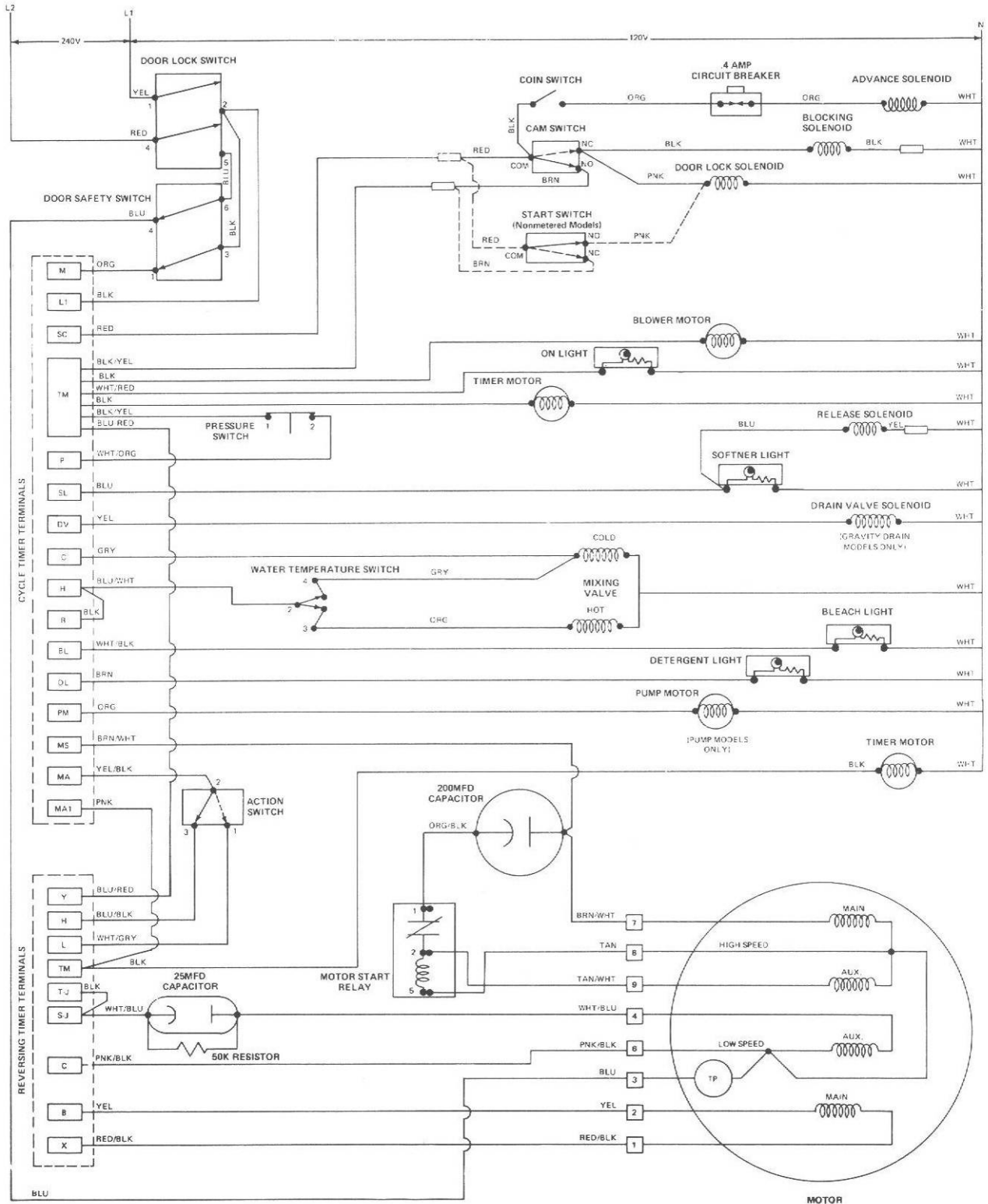
# TIMER SEQUENCE CHART

Timer No. 81485

OPERATIONS	MINUTES	GALLONS WATER	WATER TEMP. WITH WASH TEMP. SWITCH SET AT:		
			HOT	WARM	COLD
WASH FILL	1/2	1.9	HOT	WARM	COLD
WASH FILL AND TUMBLE	6-1/2	*VARIABLE	HOT	WARM	COLD
TUMBLE	1/2				
TUMBLE AND RINSE FILL	3	*VARIABLE	COLD	WARM	COLD
TUMBLE	1				
SPIN	1				
RINSE FILL	1/2	1.9	†WARM	WARM	COLD
TUMBLE AND RINSE FILL	2	*VARIABLE	†WARM	WARM	COLD
TUMBLE	1				
SPIN	1-1/2				
RINSE FILL	1/2	1.9	†WARM	WARM	COLD
TUMBLE AND RINSE FILL	2	*VARIABLE	†WARM	WARM	COLD
TUMBLE	1				
SPIN	3				
PAUSE	1/2				
TUMBLE	1				
SPIN	3-1/2				
PAUSE	1/2				
TUMBLE	1/2				
<b>TOTALS</b>	<b>30</b>	<b>**VARIABLE</b>			

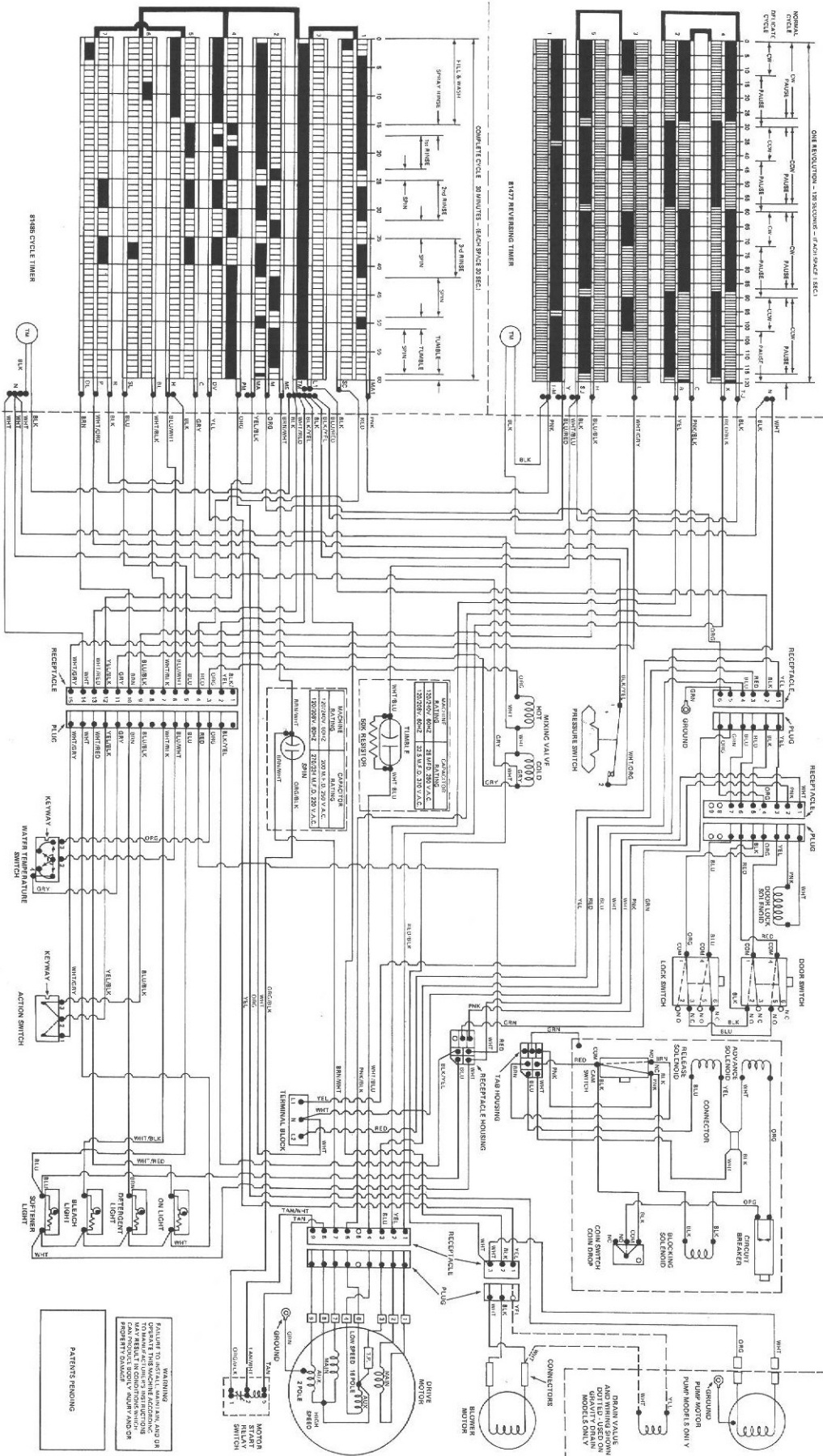
# WIRING DIAGRAMS

## Schematic



# CONNECTION DIAGRAM

## Through Serial No. 247M9











**WARNING**

Disconnect power cord and close water supply valves before servicing washer.

Never energize the electrical power to the washer with any of the panels removed.

NOTE: When reference to directions (right or left) is made in this manual, it is from the operator's position standing in front of the Superload facing toward the unit.

**1. ACCUMULATOR COIN DROP — Metered Models (Refer to Figure 1)**

- a. Unlock coin drop and pull it out of washer as far as wires will permit.

NOTE: Coin drop has threaded lock and will require several counterclockwise turns to unlock.

- b. Disconnect wire harness at terminal block.

NOTE: Refer to *Figure 2* for accumulator coin drop assembly sequence.

**IMPORTANT STEPS IN RE-ASSEMBLING ACCUMULATOR COIN DROP**

- 1. Install coin switch, *Figure 2*, so switch "clicks" before coin has completely dropped free of actuator arm. When actuator arm returns to natural position, there should be some free travel between the "click" and reseating against bottom of coin chute.

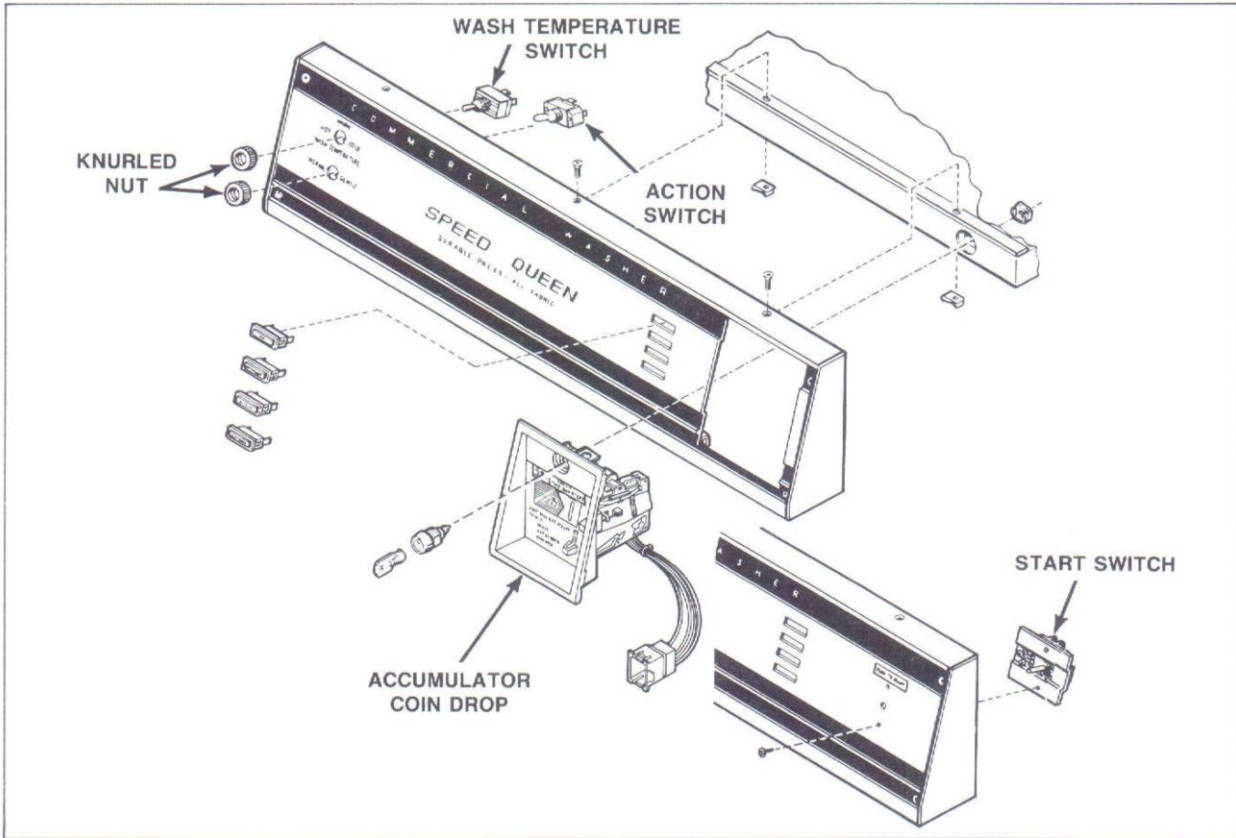


Figure 1

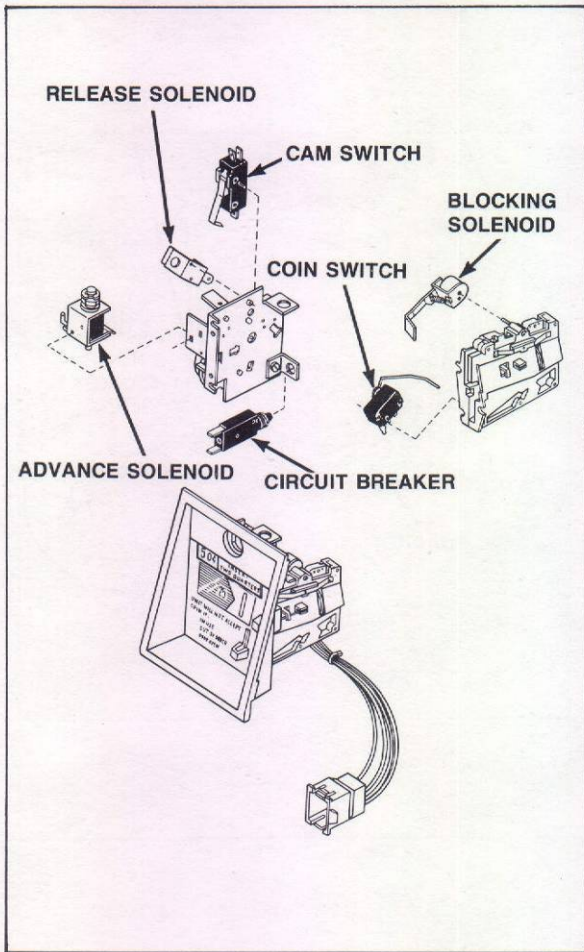


Figure 3

2. Install cam switch, *Figure 3*, so it clicks "on" about 3/4 the distance up switch cam rise.
3. Install advance solenoid, *Figure 3*, so plunger actuates the ratchet wheel enough for the pawl to latch it. Make sure ratchet wheel teeth can rotate clear of plunger boot after solenoid plunger has returned.
4. Install release solenoid, *Figure 3*, so when fully actuated, the solenoid will pivot the pawl enough to allow the ratchet wheel to rotate freely.

**2. START SWITCH — Nonmetered Models** (*Refer to Figure 1*)

- a. Remove three screws holding control panel assembly to cabinet top and tilt assembly away from washer.
- b. Disconnect wire harness at terminal block.
- c. Remove two screws holding switch to control panel.

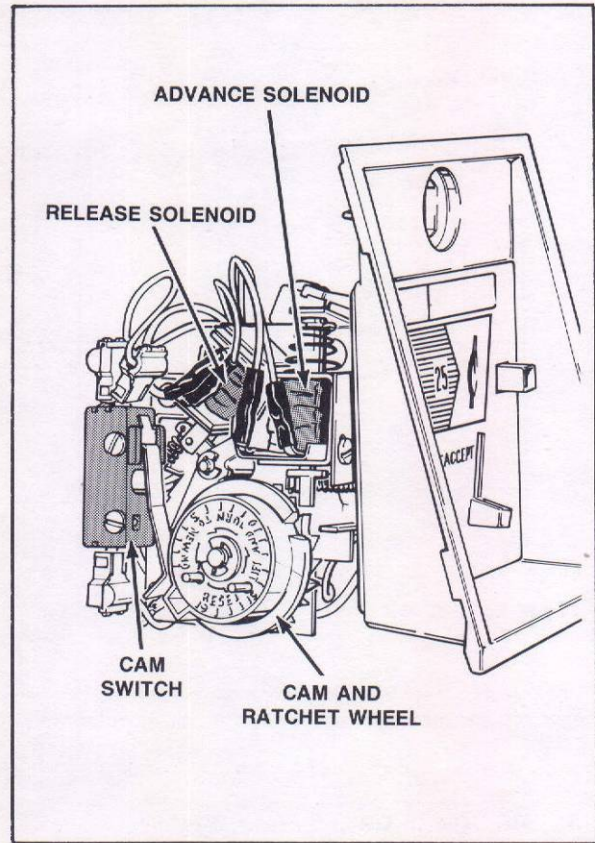


Figure 2

**3. CONTROL PANEL ASSEMBLY** (*Refer to Figure 1*)

- a. Remove coin drop, paragraph 1.
- b. Remove three screws holding control panel assembly to cabinet top.
- c. Tilt control panel assembly away from washer and disconnect wire harnesses at terminal blocks.

**4. ON, DETERGENT, BLEACH OR SOFTENER LIGHT** (*Refer to Figure 1*)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Disconnect wires from light, compress locking tabs, and push light out front of control panel.

**5. WASH TEMPERATURE OR ACTION SWITCH** (*Refer to Figure 1*)

- a. Remove coin drop, paragraph 1.
- b. Remove control panel assembly, paragraph 3, steps "b" and "c".
- c. Disconnect wires from switch.
- d. Remove knurled nut holding switch to control panel.

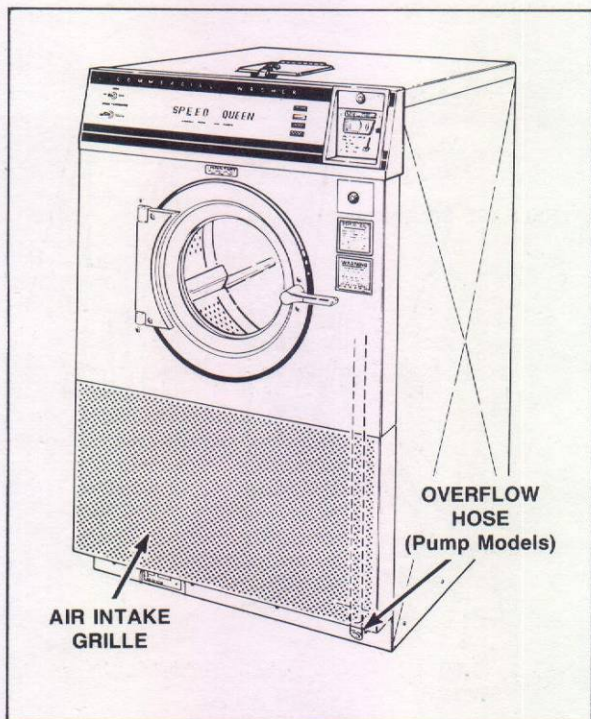


Figure 4

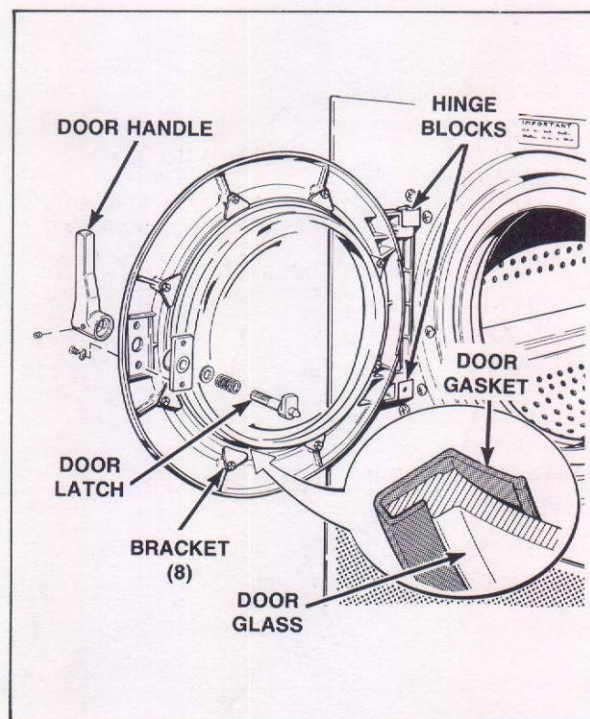


Figure 5

**6. AIR INTAKE GRILLE** (Refer to Figure 4)

- a. Remove four screws from base of grille.
- b. Pull bottom of grille away from washer and lower the grille.

**NOTE: Pump Models** — When grille is reinstalled, end of overflow hose must protrude through hole in bottom of grille.

**7. DOOR LATCH AND HANDLE** (Refer to Figure 5)

- a. Open loading door.
- b. Loosen setscrew in door handle and turn latch out of handle.

**NOTE: When reinstalling, turn latch into door handle until door fits snugly when closed and latched. With latch parallel to door handle, tighten setscrew securely. (Apply a retaining compound such as Loctite® on setscrew threads.)**

**8. DOOR GLASS AND GASKET** (Refer to Figure 5)

Open loading door and remove eight bracket screws holding door glass and gasket to door.

**9. LOADING DOOR ASSEMBLY** (Refer to Figure 5)

Open loading door, loosen setscrew in lower hinge block and remove hinge pin.

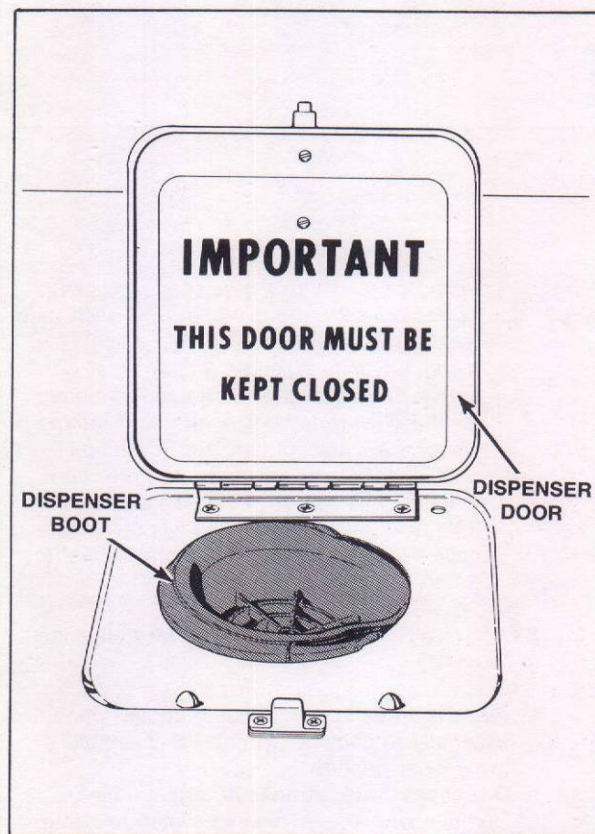


Figure 6