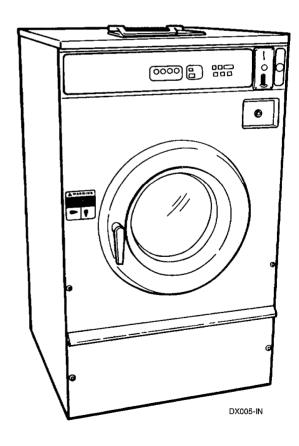
. Speed Queen

A **Raytheon** Company

Parts and Service Manual for Washer-Extractor

Model: EX218

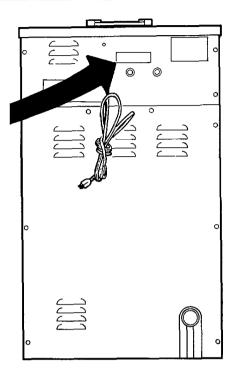


A WARNING

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.

Serial Plate Location

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



DX001-IN

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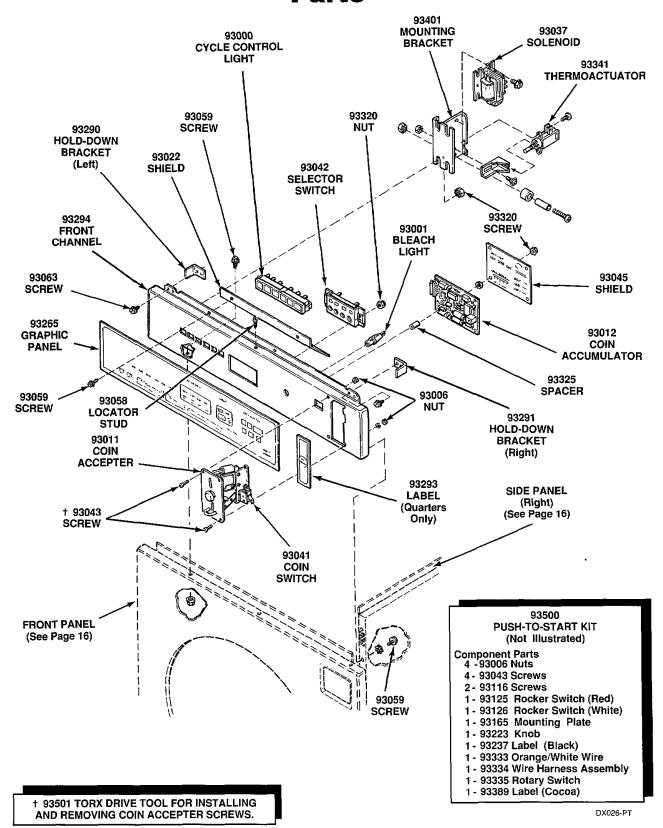
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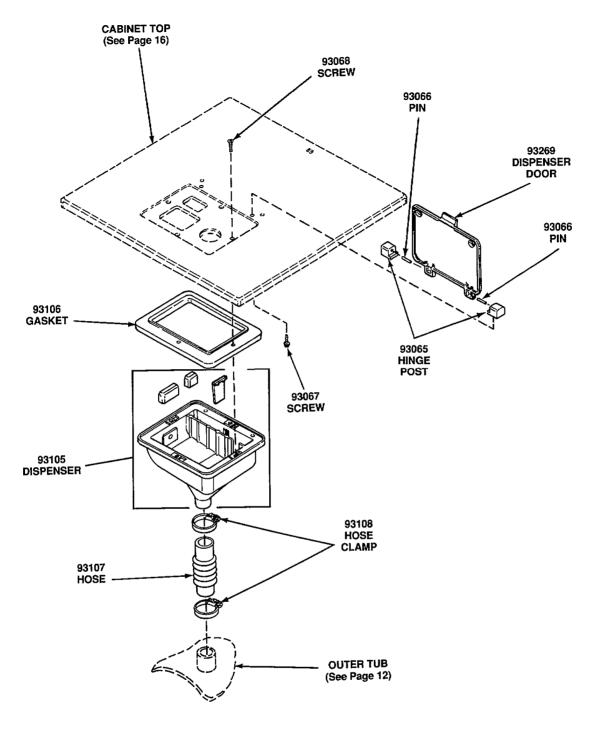
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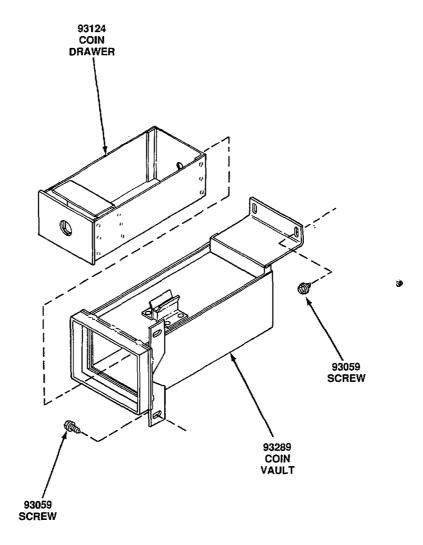


GRAPHIC PANEL AND CONTROLS

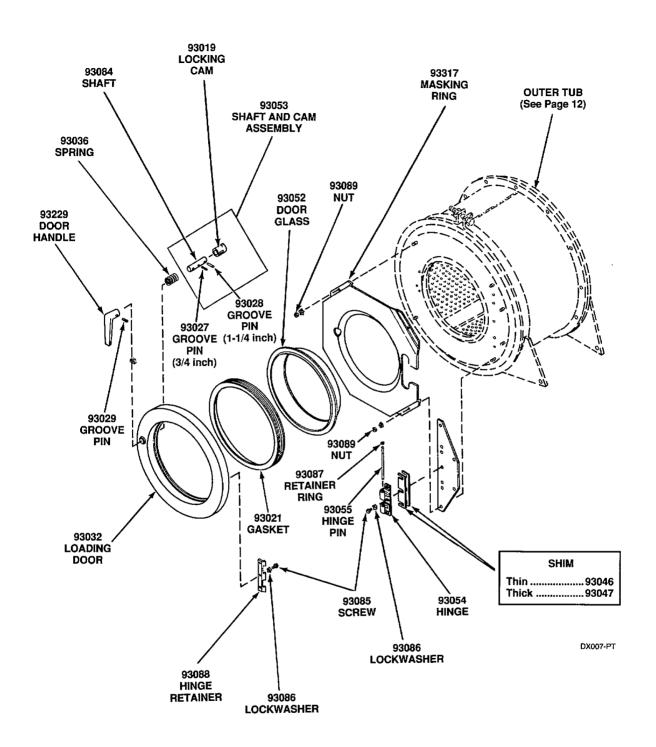


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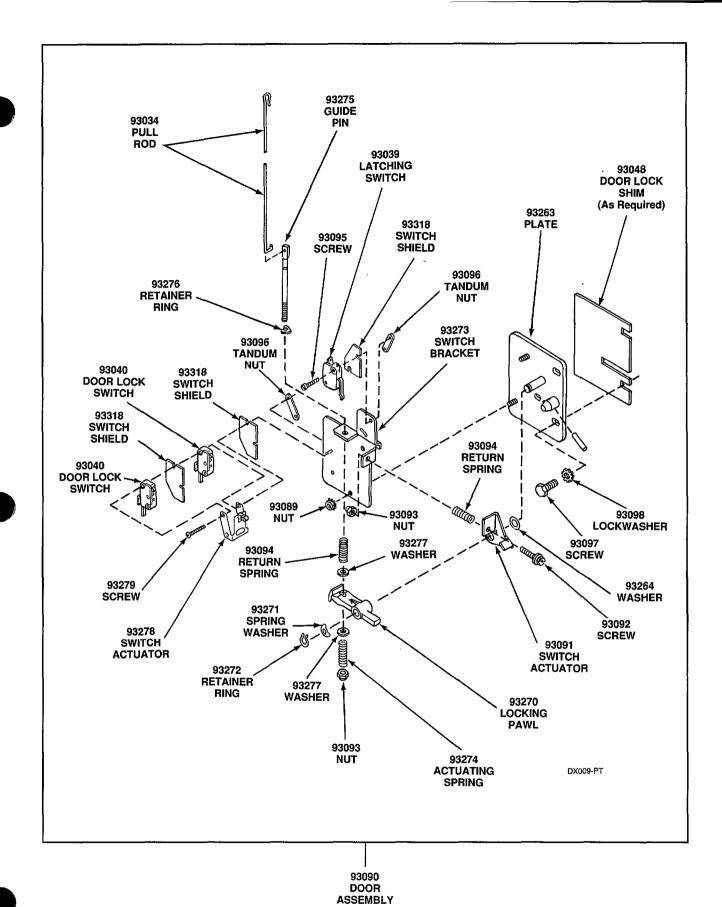
DISPENSER



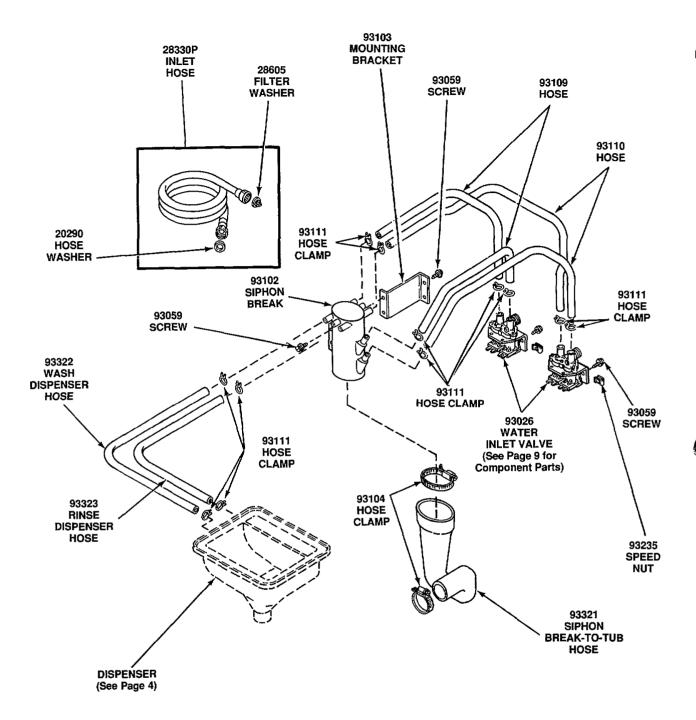
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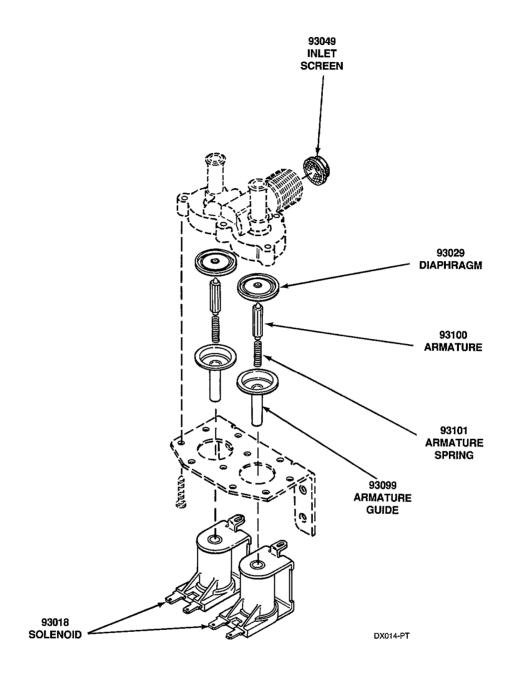
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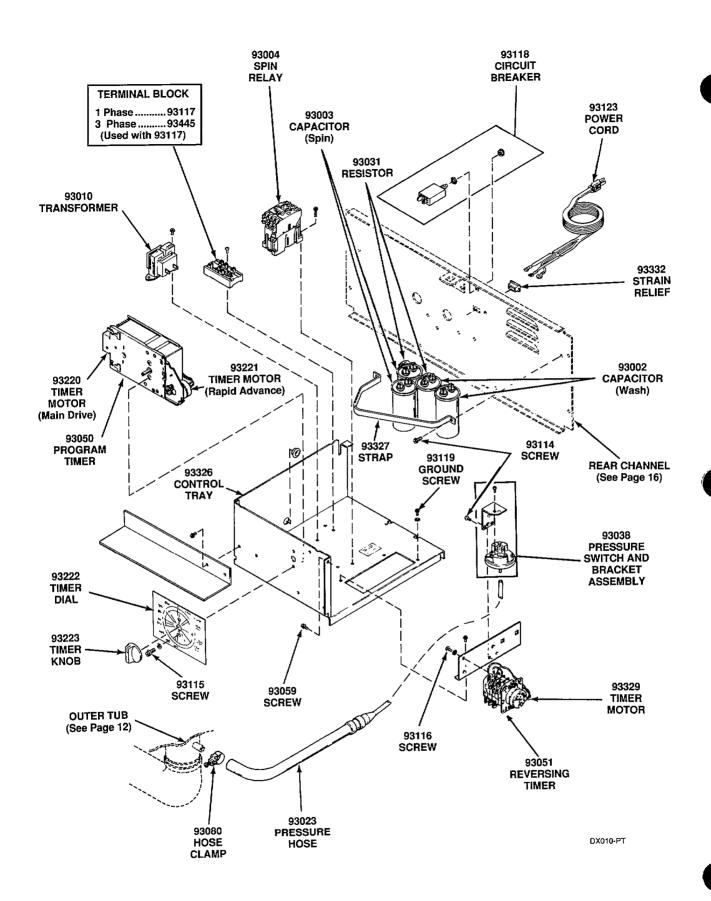
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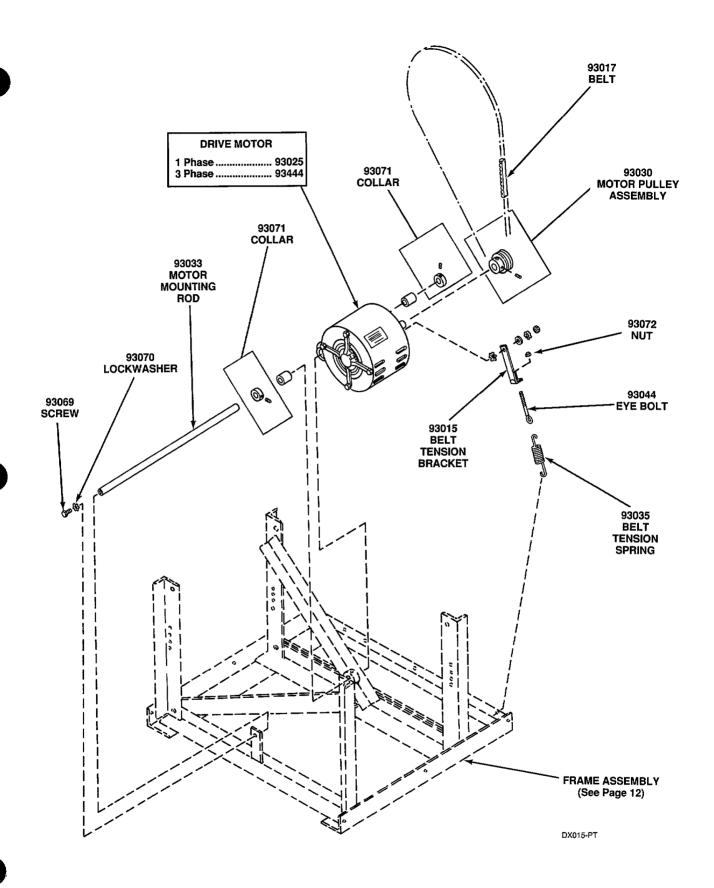
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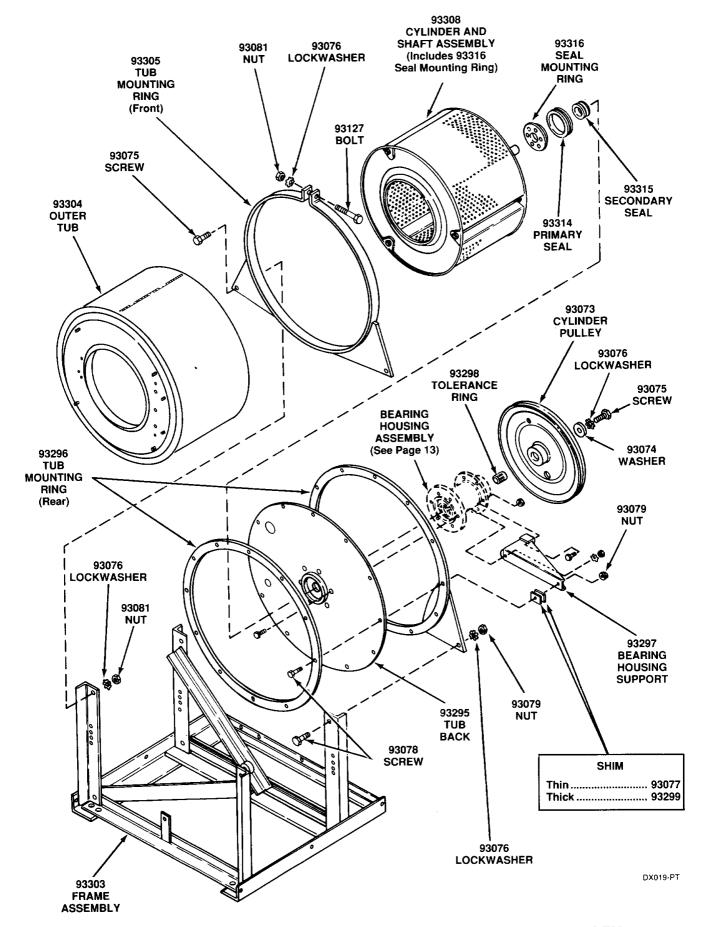
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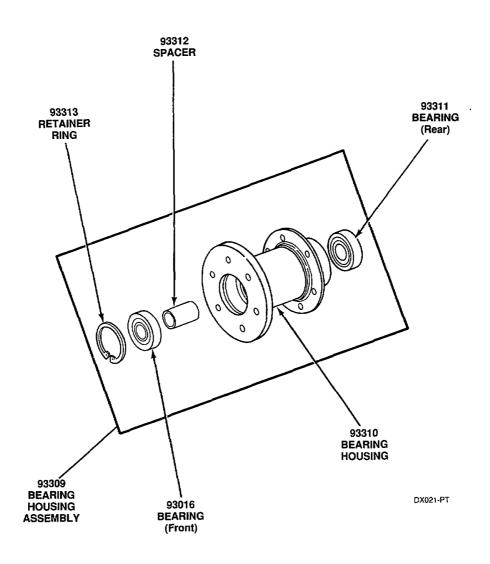
CAPACITORS, TIMERS, RELAY AND PRESSURE SWITCH

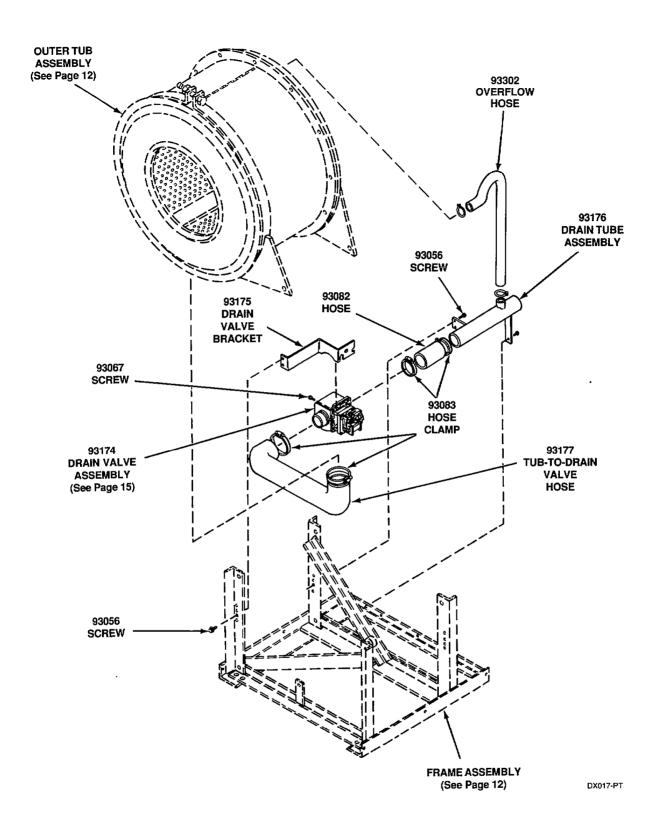


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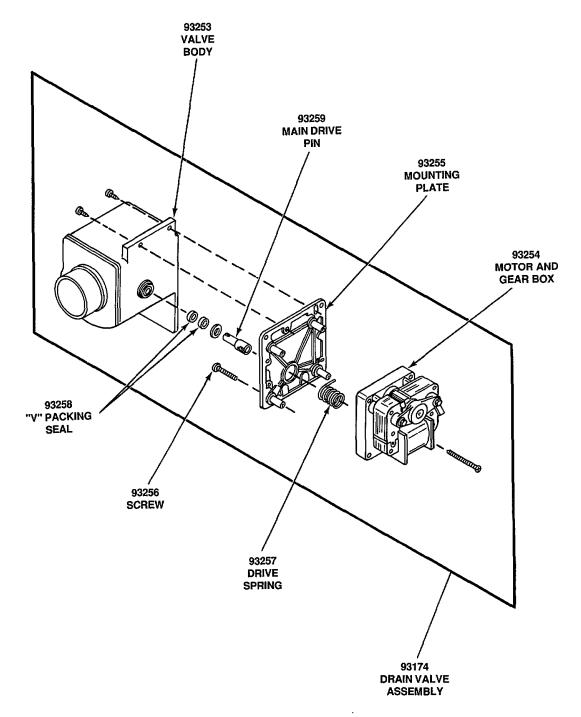


OUTER TUB, CYLINDER AND SHAFT ASSEMBLY, TUB BACK AND PULLEY

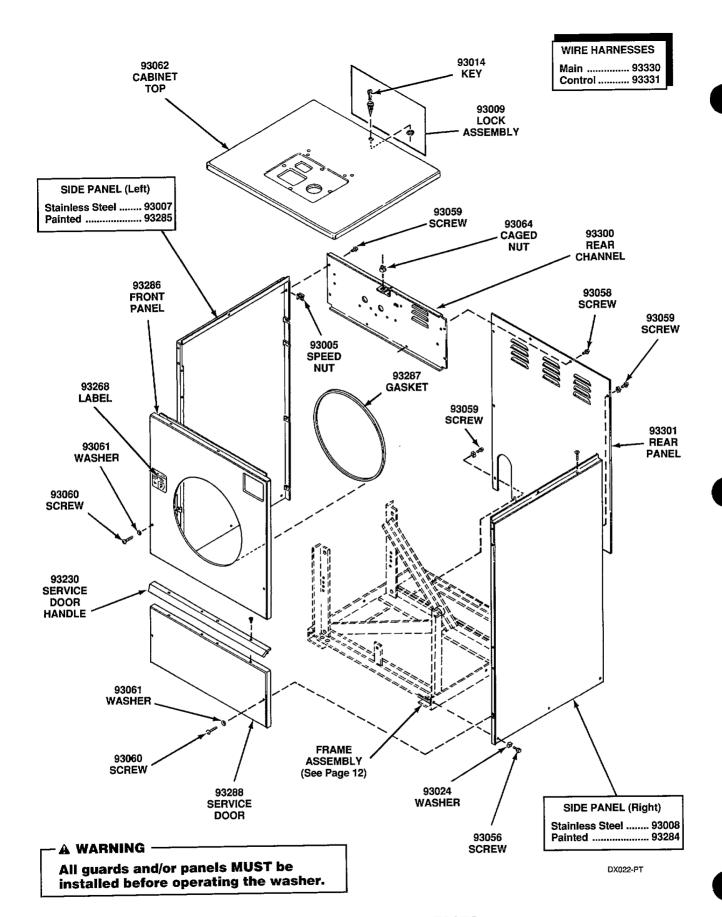




DRAIN VALVE ASSEMBLY AND HOSES



DX018-PT



PANELS AND WIRE HARNESSES

SECTION II Service Procedures

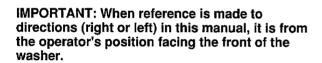
A WARNING

To reduce the risk of an electric shock, disconnect power cord and close water supply valves before servicing washer.

Never energize the electrical power to the washer with any guards and/or panels removed.

Do not repair or replace any part of the washer or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that you understand and have the skills to carry out.

Whenever ground wires are removed during servicing, those ground wires must be reconnected to ensure that the washer is properly grounded and to reduce the risk of fire, electric shock, or personal injury.



1. CABINET TOP

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, *Figure 2.*

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front hold-down brackets, *Figure 2*. Set cabinet top out of the way.

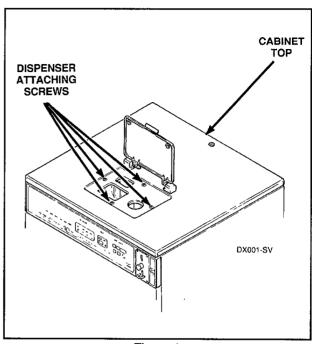


Figure 1

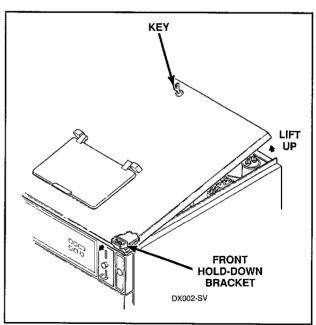


Figure 2

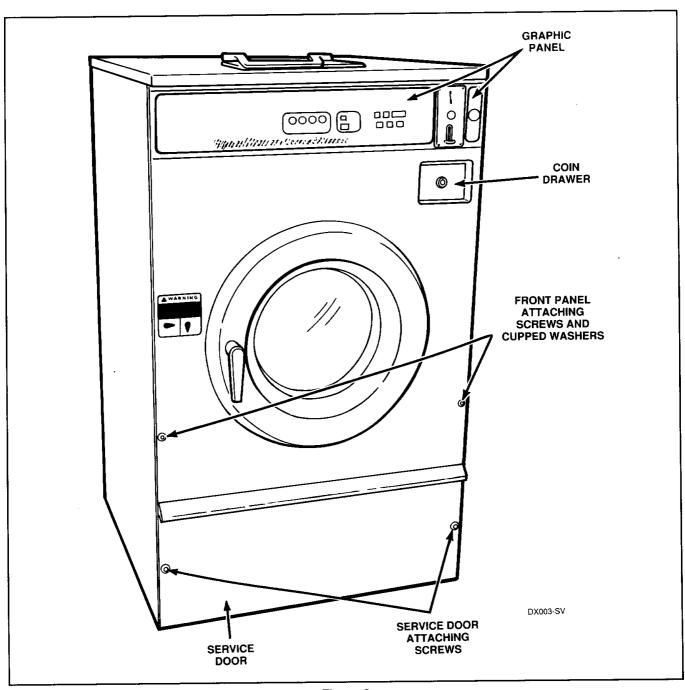


Figure 3

2. SERVICE DOOR

Remove the two screws and cupped washers holding the service door to the washer side panels and remove door, *Figure 3*.

3. GRAPHIC PANEL OVERLAY (Figure 3)

NOTE: The graphic panel overlay is adhesive backed. Removed it by peeling it from the front channel.

INSTALLING NEW GRAPHIC PANEL OVERLAY

NOTE: Before removing the protective backing from the new overlay, check the fit of the overlay to the washer front channel. The selector switch buttons and the coin accepter opening are the locating guides.

- a. Once the panel overlay is fitted to the front channel, carefully peel the protective backing from the right end of the panel overlay and press into place.
- b. Remove the rest of the protective backing from the panel overlay and press overlay into place.

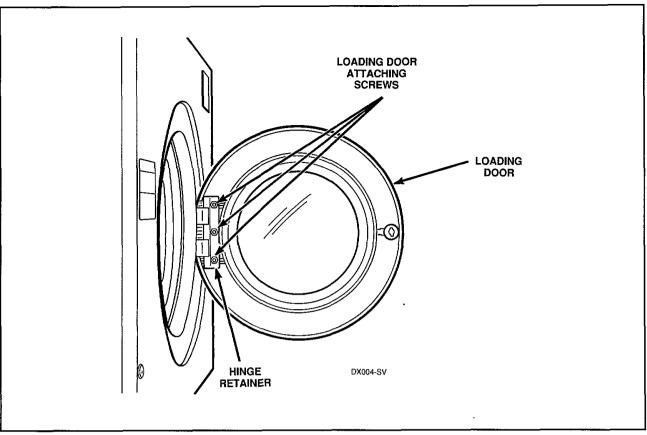


Figure 4

4. LOADING DOOR

- a. Unlatch and open loading door.
- While supporting the loading door, remove the three screws and lockwashers holding loading door to hinge retainer and remove door, Figure 4.

NOTE: Refer to Figure 5 for loading door assembly sequence.

5. LOADING DOOR GASKET

NOTE: For best results, the loading door should be removed from the washer for ease of gasket removal and installation.

- a. While supporting the loading door, remove the three screws and lockwashers holding the loading door to the hinge retainer and remove door, Figure 4.
- While holding the door glass, peel the gasket away from the door glass all the way around inside of door and remove door glass, Figure 5.
- c. Remove gasket from door ring.

INSTALL DOOR GASKET

Assemble the new gasket onto the door glass, then work the door gasket onto the door ring. No adhesive is necessary.

6. LOADING DOOR SHAFT AND CAM ASSEMBLY

- a. If water is present in the cylinder, disconnect the electrical power to the washer to allow the water to drain from the cylinder before proceeding:
- While supporting loading door, remove the screws and lockwashers holding loading door to the hinge retainer and remove door, Figure 4.

NOTE: Refer to Figure 5 for loading door assembly sequence.

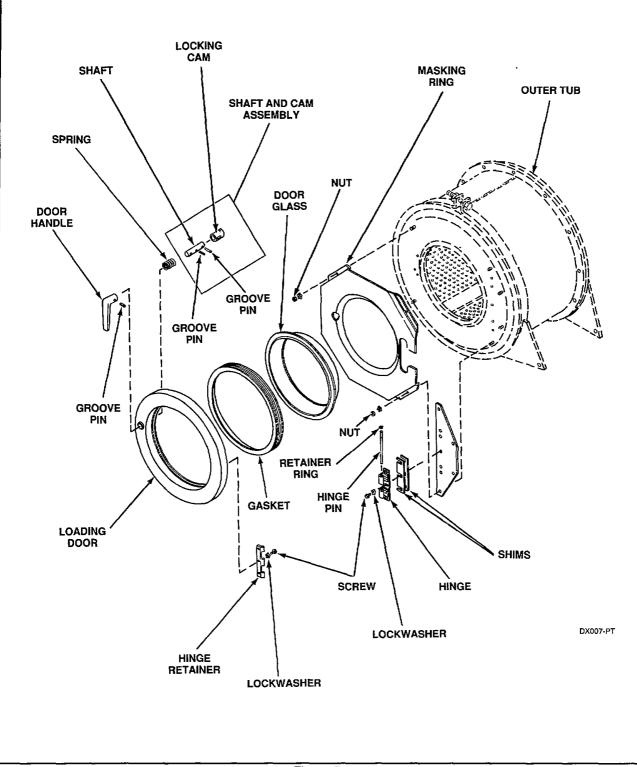


Figure 5

7. DOOR LOCK ASSEMBLY

NOTE: If water is present in the cylinder, disconnect the electrical power to the washer to allow cylinder to drain before proceeding.

- a. Remove two screws and cupped washers holding lower front access panel to washer side panels and remove panel, *Figure 3*.
- b. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- c. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- d. Lift up on rear of cabinet top, Figure 2.
- e. Slide cabinet top forward far enough to release cabinet top from the two front hold-down brackets, *Figure 2*. Set cabinet top out of the way.
- f. Remove two screws and cupped washers holding front panel to side panel, Figure 6.
- g. While supporting front panel, remove three screws, lockwashers and nuts holding top flange of front panel to lower flange of front channel, *Figure 6*, and remove front panel and gasket from washer.
- h. Remove four nuts holding masking ring to front of outer tub and remove ring, Figure 7.
- i. Disconnect wires from door lock assembly.

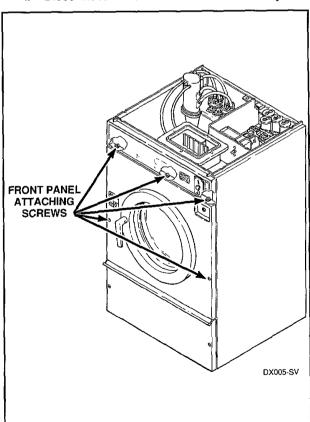


Figure 6

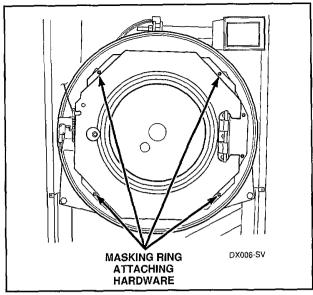


Figure 7

 Remove three screws and lockwashers holding door lock assembly to front of outer tub. Figure 8.

NOTE: Shims may be present between door lock assembly and front of outer tub. The number may be increased or decreased to adjust left side door pressure.

k. Unhook door lock assembly from pull rod, Figure 8.

NOTE: See Figure 9 for assembly sequence of door lock assembly.

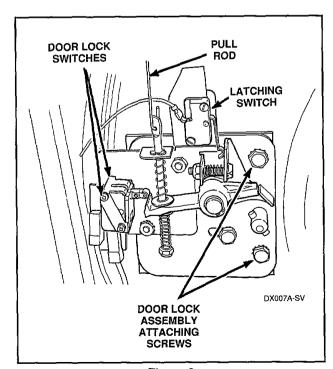


Figure 8

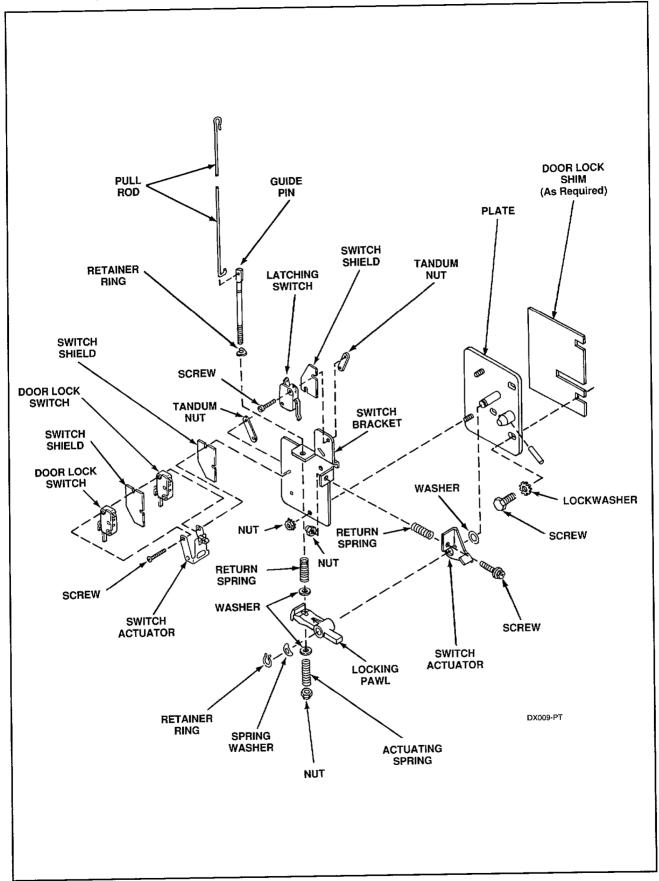


Figure 9

8. FRONT PANEL

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, *Figure 2*.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front hold-down brackets, *Figure 2*. Set cabinet top out of the way.
- e. Remove two screws and cupped washers holding service door to the washer side panels and remove door, *Figure 3*.
- f. Remove two screw and cupped washers holding front panel to side panels, *Figure 3*.
- g. While supporting front panel, remove three screws, lockwashers and nuts holding top flange of front panel to lower flange of front channel, *Figure 6*, and remove front panel and gasket from washer.

9. REAR PANEL

A WARNING --

All guards and/or panels MUST be installed before operating the washer. The rear panel keeps dust and dirt from accumulating on the motor and adds rigidity to the structure of the washer, and provides safety protection.

Remove screws holding the rear panel to the washer side panels, *Figure 10*.

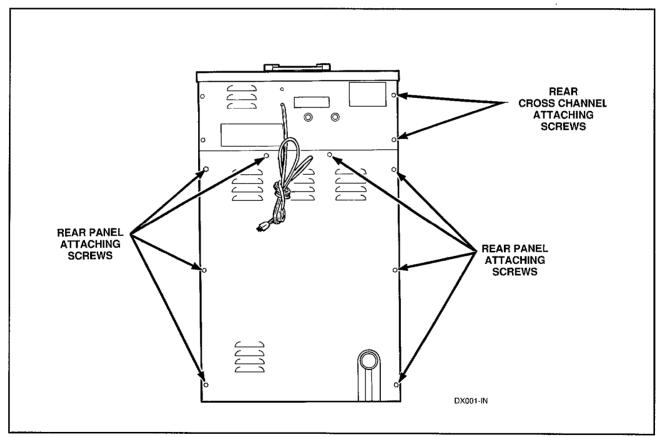


Figure 10

- A WARNING -

All guards and/or panels MUST be installed before operating the washer. The rear panel keeps dust and dirt from accumulating on the motor and adds rigidity to the structure of the washer, and provides safety protection.

- a. Remove screws holding rear panel to washer, side panels, *Figure 10*.
- b. Run belt off cylinder pulley while slowly turning pulley, *Figure 11*.

NOTE: There is no belt adjustment necessary, the motor is spring loaded.

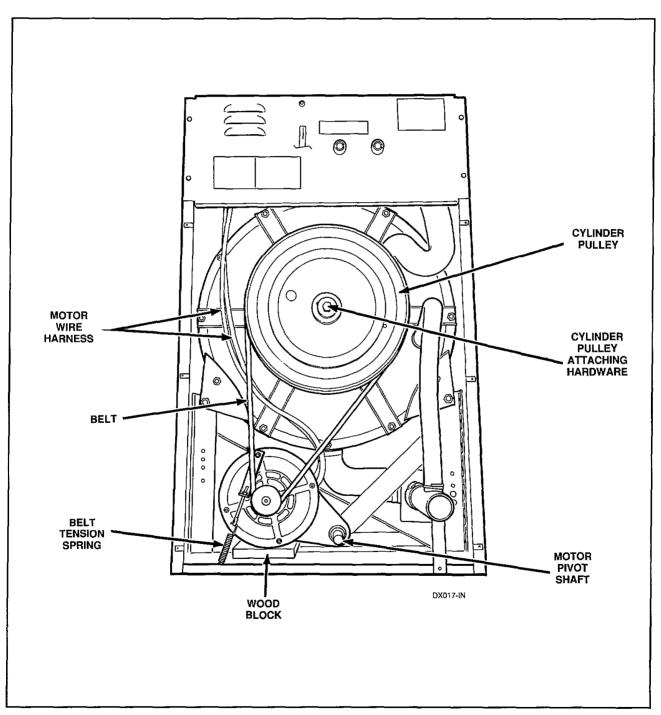


Figure 11

11. MOTOR

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several **counterclockwise** turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Disconnect the motor wire harness terminal block plug from the control tray connection block by pressing in on the movable locking tabs (located on each side of terminal block plug).

IMPORTANT: To avoid an open circuit, DO NOT pull on the terminal block wires when removing the plug from the control tray as this could damage the wires or terminal crimpings.

f. Remove the screw holding the green ground wire to the control tray.

- A WARNING

Whenever ground wires are removed during servicing, those ground wires must be reconnected to ensure the washer is properly grounded and to reduce the risk of fire, electric shock or personal injury.

- g. Remove two screws and cupped washers holding service door to washer side panels and remove door, *Figure 3*.
- h. Loosen setscrew in shaft collar closest to front of washer and in the collar welded to washer base. The setscrew in the collar at the rear of the washer need not be loosened.
- i. Remove screws holding rear panel to washer side panels and remove panel, *Figure 10.*

· A WARNING -

All guards and/or panels MUST be installed before operating the washer. The rear panel keeps dust and dirt from accumulating on the motor and adds rigidity to the structure of the washer, and provides safety protection.

- j. Run belt off cylinder pulley while slowly turning pulley, *Figure 11*.
- k. Unhook the belt tension spring from the motor, *Figure 11.*
- Remove front bolt from motor pivot shaft and pull shaft out through rear of washer, Figure 12.

NOTE: Block the motor in a way that will support itself when the pivot shaft is removed, Figure 12.

m. Carefully remove motor out through rear of washer.

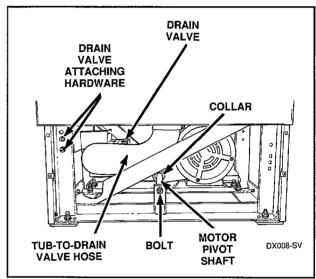


Figure 12

12. DRAIN VALVE

- Remove two screws and cupped washers holding the service door to the washer side panels and remove the door, *Figure 3*.
- If water is present in the cylinder, disconnect the electrical power to the washer to allow the water to drain from the cylinder before proceeding.
- c. Loosen hose clamp and remove the hose from drain valve, *Figure 12.*
- d. Disconnect wires from drain valve.

NOTE: Refer to wiring diagram when rewiring the drain valve.

- e. Remove attaching hardware holding drain valve to left side of washer frame. Figure 12.
- f. Loosen hose clamp on the drain valve-to-tube hose and remove drain valve from hose, *Figure 12*.

13. SIDE PANEL (RIGHT OR LEFT)

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front hold-down brackets, *Figure 2*. Set cabinet top out of the way.
- Remove two screws and cupped washers holding service door to washer side panel and remove door, *Figure 13*.

- f. Remove screws holding rear panel and cross channel to the side panel, *Figure 13*.
- g. Remove screw and cupped washer holding front panel to side panel, *Figure 13*.
- h. Remove hardware holding front channel to side panel, *Figure 14*.
- RIGHT SIDE PANEL ONLY Remove screw holding control tray to top flange of side panel, Figure 13.
- j. While supporting side panel, remove screws holding side panel to washer base, *Figure 13*.

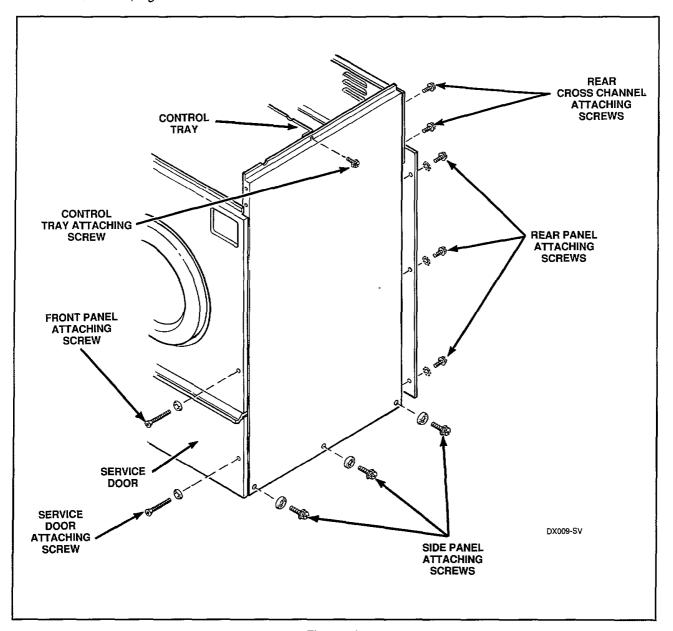


Figure 13

14. SELECTOR SWITCH

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, *Figure 2*.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Disconnect wires from selector switch.

NOTE: Refer to appropriate wiring diagram when rewiring selector switch.

f. Remove two nuts holding selector switch to backside of front channel, *Figure 14*.

15. COIN ACCEPTER

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, *Figure 2*.

NOTE: Lock is threaded and will require several **counterclockwise** turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Using number 93501 Torx Drive Tool, remove the four Torx screws, lockwashers and nuts holding coin accepter to front channel, *Figure 14*.
- f. Remove coin accepter out through opening in front channel as far as wire permits.
- g. Disconnect wires from coin accepter.

NOTE: Refer to wiring diagram when rewiring coin accepter.

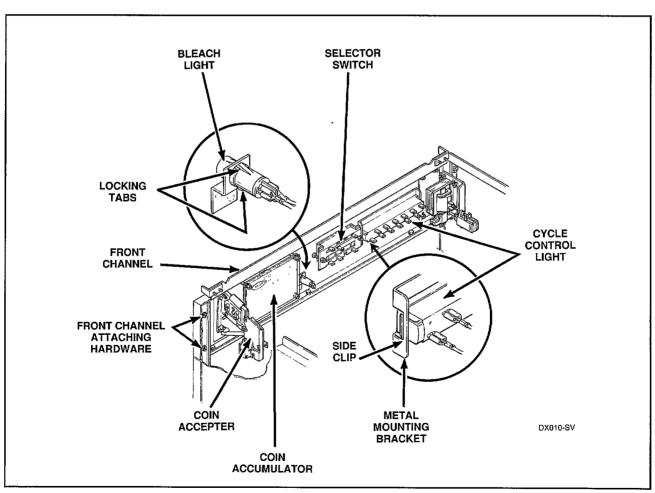


Figure 14

16. COIN ACCUMULATOR

- a. Open dispenser door and remove four screws Holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, *Figure 2*.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Remove nuts holding plastic shield to backside of coin accumulator and remove shield, *Figure 14*. Then remove nuts holding coin accumulator to backside of front channel, *Figure 14*.
- f. Carefully remove coin accumulator out of washer as far as wires permit, then disconnect wires from coin accumulator at quick disconnect blocks.

17. CYCLE CONTROL LIGHT

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several **counterclockwise** turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.

NOTE: Lights are contained in a bank and are replaced as a group.

- e. Release side clips on metal mounting bracket and remove light, *Figure 14*.
- Disconnect wires from light group.

NOTE: Refer to wiring diagram when rewiring light group.

18. BLEACH LIGHT

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Disconnect wires from bleach light.

NOTE: Refer to wiring diagram when rewiring bleach light.

 Squeeze locking tabs in on light housing and remove light from backside of front channel, Figure 14.

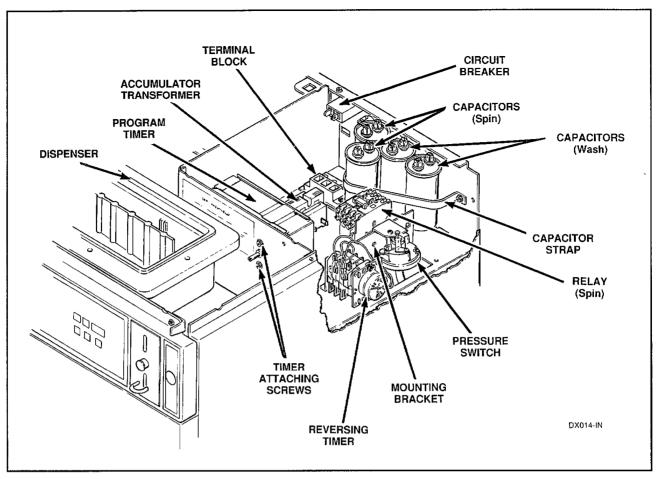


Figure 15

19. PROGRAM TIMER

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, *Figure 2*.

NOTE: Lock is threaded and will require several **counterclockwise** turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front hold-down brackets, *Figure 2*. Set cabinet top out of the way.
- e. Remove timer knob from timer shaft.
- f. Remove two screws and washers holding timer to control tray, *Figure 15*.
- g. Disengage wire harness terminal block plugs from timer by pressing in on the movable locking tabs (located on each side of terminal block plug) and pulling away from timer.

IMPORTANT: To avoid an open circuit, **DO NOT** pull on the terminal block wires when removing blocks from timer, this could damage wires or terminal crimping. Before attaching wire harness terminal blocks to timer, make sure all male terminals on timer are straight and are capable of accepting the terminals from the wire harness terminal blocks.

NOTE: When installing timer, be sure timer is installed correctly and is mounted firmly to the control tray, *Figure 15*.

TO REMOVE TIMER MOTOR

- a. Remove program timer.
- Remove two nuts holding timer motor to timer assembly.
- c. Disconnect timer motor lead wires from timer.

NOTE: Refer to wiring diagram when rewiring timer motor lead wires.

20. REVERSING TIMER

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, *Figure 2*.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front hold-down brackets, *Figure 2*. Set cabinet top out of the way.
- e. Remove two screws and lockwashers holding timer to mounting brackets (located inside control tray), *Figure 15*.
- f. Disconnect wires from timer.

NOTE: Refer to wiring diagram when rewiring timer.

TO REMOVE TIMER MOTOR

- a. Remove reversing timer assembly.
- Remove two nuts holding timer motor to timer assembly.
- c. Disconnect timer motor lead wires from timer.

NOTE: Refer to wiring diagram when rewiring timer motor lead wires.

21. CIRCUIT BREAKER

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front hold-down brackets, *Figure 2*. Set cabinet top out of the way.
- e. Remove nut holding circuit breaker to rear cross channel, *Figure 15*.
- Pull circuit breaker out of rear cross channel as far as wires permit, then disconnect wires from circuit breaker.

NOTE: Refer to wiring diagram when rewiring circuit breaker.

22. PRESSURE SWITCH

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, *Figure 2*.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Remove Phillips head screw holding pressure switch to mounting bracket on control tray, *Figure 15*.
- f. Disconnect wires from pressure switch.

NOTE: Wires must be reconnected to terminals "1" and "2" when rewiring pressure switch.

- g. Lift pressure switch off control tray far enough to permit disconnecting pressure hose from underside of pressure switch.
- h. Tape pressure hose to top side of control tray to prevent hose from falling to washer base.

IMPORTANT: When installing pressure hose, blow air through hose before connecting hose to pressure switch. This will remove any condensation that may have accumulated in hose.

23. RELAY (Spin)

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Disconnect wires from relay.

NOTE: Refer to wiring diagram when rewiring relav.

 Remove two screws holding relay to control tray, Figure 15.

24. ACCUMULATOR TRANSFORMER

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Remove two screws holding transformer to control tray, *Figure 15*.
- Lift transformer off control tray as far as wires permit, then disconnect wires from transformer.

NOTE: Refer to wiring diagram when rewiring transformer.

25. CAPACITOR (Spin or Wash)

- a. Open dispenser door and remove four screws holding dispenser to cabinet top. *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several **counterclockwise** turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.

NOTE: To reduce the risk of an electric shock, touch capacitor terminals with ends of insulated wire to discharge capacitor.

e. Disconnect wires from capacitor.

NOTE: Refer to wiring diagram when rewiring capacitor.

f. Remove screw holding capacitor strap to rear cross channel, *Figure 15*.

26. DISPENSER

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock. Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Loosen hose clamps and remove hoses from nozzles on dispenser.
- f. Loosen hose clamp and remove hose from underside of dispenser and remove dispenser, *Figure 15*.

27. DOOR LOCK SOLENOID AND THERMOACTUATOR ASSEMBLY

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Disconnect wires from solenoid and thermoactuator, *Figure 16*.

NOTE: Refer to wiring diagram when rewiring solenoid and thermoactuator.

f. Remove nuts holding solenoid and mounting bracket assembly to backside of front channel, Figure 16, then release pull rod from solenoid and remove solenoid, thermoactuator and mounting bracket assembly from washer.

NOTE: When reinstalling door lock solenoid and mounting bracket assembly adjust per paragraph 39.

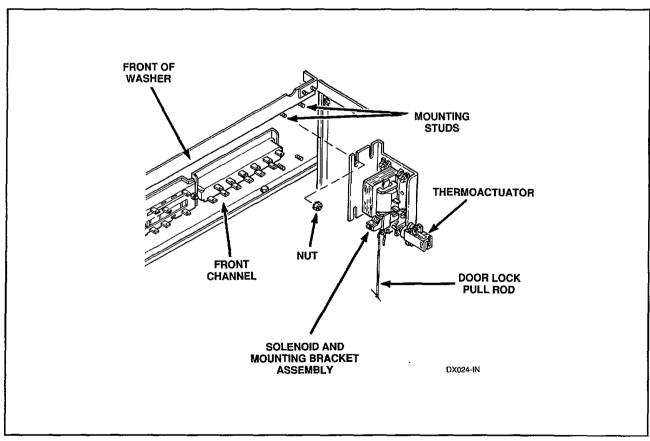


Figure 16

28. WATER INLET VALVE (HOT OR COLD)

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, *Figure 2*.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Disconnect wires from inlet valve solenoids, Figure 17.

NOTE: Refer to wiring diagram when rewiring inlet valve solenoids.

f. Loosen hose clamps and remove dispenser hoses at the water inlet valve, Figure 17.

IMPORTANT: Mark hoses so they can be reinstalled on the correct valve outlet.

- g. Go to rear of washer and disconnect inlet hose from inlet valve.
- While supporting inlet valve, remove two screws and washers holding inlet valve to the rear cross channel. Remove valve from inside of washer.

29. SIPHON BREAK

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Loosen hose clamps and disconnect hoses from siphon break, *Figure 17.*

IMPORTANT: Before removing hoses, mark each hose so all hoses can be reinstalled correctly on siphon break.

f. Remove two screws holding siphon break and bracket to rear cross channel, *Figure 18*.

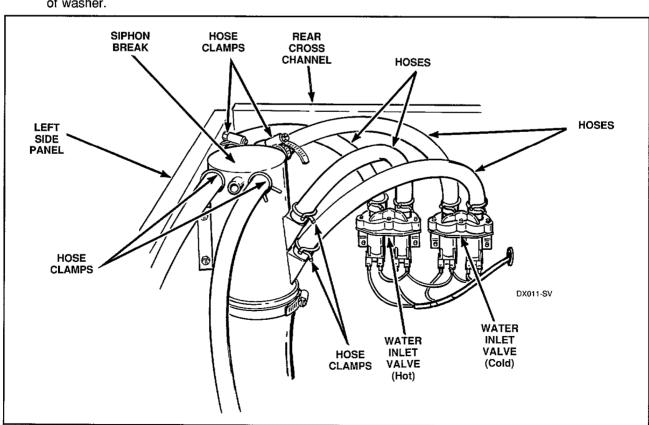


Figure 17

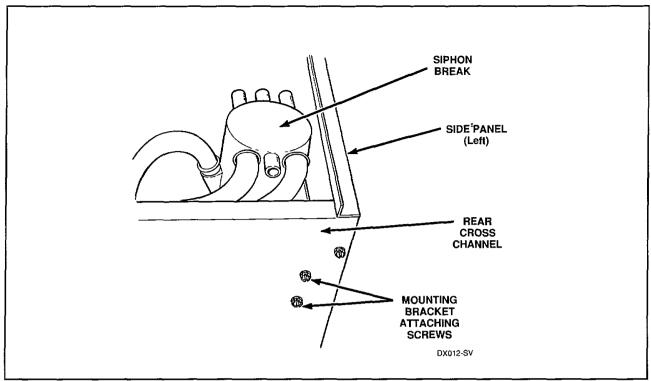


Figure 18

30. CYLINDER PULLEY

- a. Remove screws holding rear panel to washer, *Figure 10.*
- b. Run belt off cylinder pulley while slowly turning pulley, Figure 11.
- c. Remove cylinder pulley attaching hardware holding pulley to shaft, *Figure 11*.

IMPORTANT: When reinstalling bolt, torque to 45 foot pounds.

d. Remove cylinder pulley from shaft.

NOTE: IT will require a puller to remove the pulley from cylinder shaft using the two tapped holes located in the pulley hub.

IMPORTANT: To avoid damage to end of cylinder shaft when using a puller, thread a bolt into end of shaft.

e. After removing pulley, remove the tolerance ring used between pulley and shaft.

NOTE: Tolerance ring must be in place when reinstalling pulley on shaft.

A WARNING -

To reduce the risk of an electric shock, disconnect the electrical power and close water supply faucets before servicing the washer.

IMPORTANT: Before attempting to remove the cylinder assembly from the rear of the washer, the washer will first have to be removed from its permanent mountings and moved to an area where the service work can be performed.

- a. Disconnect power cord, drain hose and water inlet hoses at rear of washer.
- b. Remove the cabinet top as follows:

- Open dispenser door and remove the four screws holding dispenser to cabinet top, Figure 1.
- 2. Insert key into cabinet top lock and unlock, *Figure 2.*

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- 3. Lift up on rear of cabinet top, Figure 2.
- 4. Slide cabinet top forward far enough to disengage the cabinet top from the two front hold-down brackets, *Figure 2*. Set cabinet top out of the way.
- c. Remove screws holding rear panel to washer side panels and remove rear panel, Figure 19.
- d. Remove two screws and washers holding service door to washer side panels and remove door, Figure 19.

(continued)

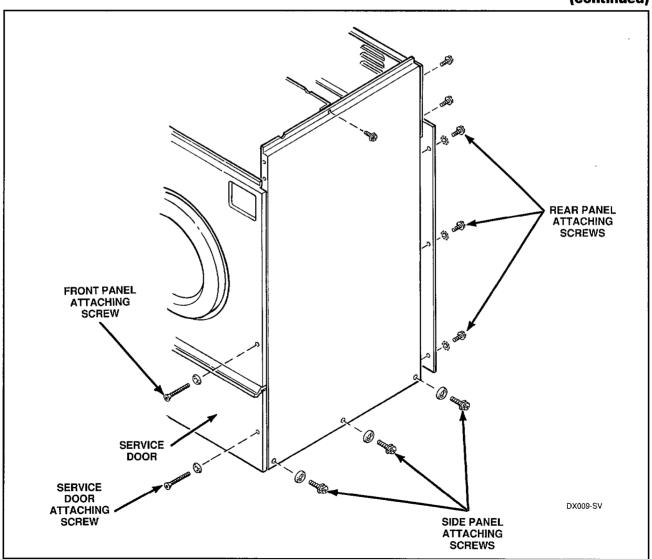


Figure 19

- e. Reach in through front of washer and remove the mounting hardware, *Figure 20*, holding washer to concrete or base.
- Carefully lift washer off its mounting and move the washer to an area where it will be serviced.
- g. Remove two front panel attaching screws and remove screws holding side panels to washer base, *Figure 19*.
- While supporting loading door, remove three screws and lockwashers holding loading door to hinge retainer and remove door, Figure 21.
- Loosen hose clamp and remove dispenser hose where it attaches to the inlet on the outer tub.
- j. While supporting front panel, remove the three screws holding top flange of front panel to the lower flange of the front channel, *Figure 6*, and remove front panel and gasket from washer.
- k. Disconnect harness wires from door lock assembly, Figure 8. The separate jumper wires should remain attached to the door lock assembly.

IMPORTANT: Before disconnecting wires from door lock assembly, mark the terminal connections and wire colors so wires can be reinstalled correctly.

- Remove nuts holding door lock solenoid and mounting bracket to backside of front channel and release pull rod from solenoid, Figure 16.
- m. Run belt off pulley while slowly turning pulley, Figure 12, then disconnect wires from drain valve, Figure 13.

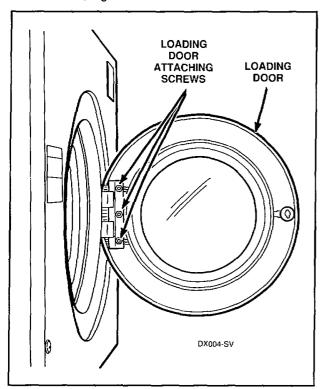


Figure 21

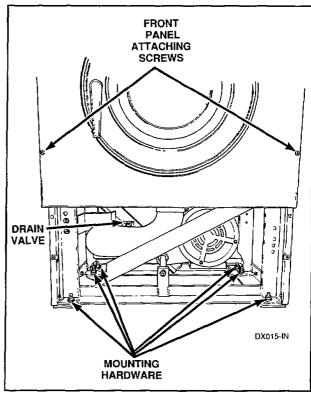


Figure 20

 Disconnect the motor wire harness at the disconnect blocks located on the control tray. Then disconnect green ground wire from control tray.

AWARNING -

Whenever ground wires are removed during servicing, those ground wires MUST be reconnected to ensure washer is properly grounded and to reduce the risk of fire, electric shock, or personal injury.

- Loosen hose clamp and remove the siphon break hose from the tub back.
- p. Disconnect the pressure hose from underside of pressure switch, *Figure 15*.
- q. Two people should now be able to lift the complete cabinet up and off the washer. Set cabinet aside to prevent damage.
- r. Tip the washer forward and place blocking and protective padding under the top of the tub front to prevent damage to the masking ring and the door lock assembly.

IMPORTANT: Before removing the cylinder assembly, tub back and bearing housing assembly, mark the tub back, both clamp rings, bearing housing and bearing housing supports so all these parts can be reinstalled in the same position.

s. Remove the 12 bolts, lockwashers and nuts from the tub back clamp rings, *Figure 22*.

NOTE: When removing the 12 bolts, you may find shims on some of these bolts. These shims are used to center the cylinder with the front opening of the outer tub and to move the cylinder forward or back. Mark on the tub back or clamp ring where these shims are located and how many shims there are so they can be reinstalled in the same location.

- t. Remove two bolts, lockwashers and nuts holding the clamp ring to the two rear frame legs, *Figure 22*.
- Carefully lift the tub back, cylinder assembly and bearing housing straight up and out of the outer tub.

NOTE: You may have to break the silicone seal between the tub back and flange on outer tub before removing the tub back, cylinder assembly and bearing housing.

 Place the complete cylinder assembly, tub back and bearing housing face down on a couple of 2x4 wood blocks.

IMPORTANT: When placing the cylinder on the blocks, be careful not to damage the front flange on the cylinder.

- w. Remove screw, lockwashers and flat washer holding cylinder pulley to shaft, *Figure 22*.
- x. Remove the cylinder pulley from the shaft using a gear puller and the two tapped holes in the pulley hub. Then remove tolerance ring from shaft.

NOTE: Tolerance ring must be in place when installing pulley.

IMPORTANT: To avoid damage to the end of the cylinder shaft, thread a bolt into end of shaft.

 y. Use a gear puller and remove bearing housing, with tub back attached, off cylinder shaft, Figure 23.

IMPORTANT: To avoid damage to the end of the cylinder shaft, thread a bolt into end of shaft.

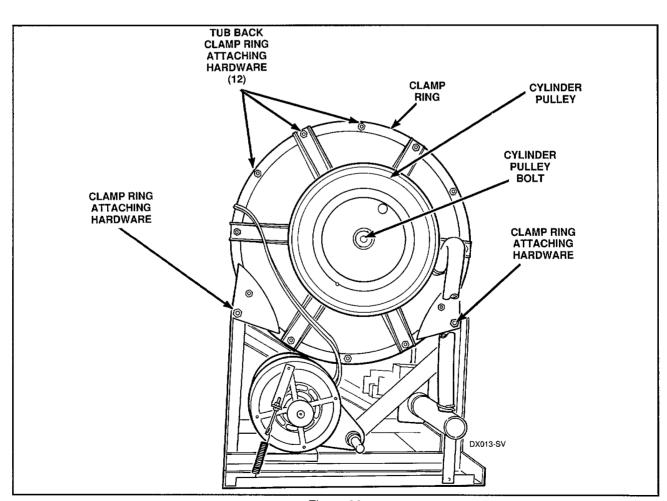


Figure 22

32. BEARING HOUSING ASSEMBLY

- a. Remove cylinder assembly, paragraph 31.
- b. Remove attaching hardware holding bearing housing supports and tub back to bearing housing, *Figure 23*.

33. BEARING REMOVAL

- a. Remove cylinder assembly, paragraph 31.
- Remove attaching hardware holding bearing housing supports and tub back to bearing housing, Figure 23.

NOTE: Bearings are a press fit in the bearing housing and can be driven out of the housing, using a hammer and a piece of hardwood dowel. The front bearing is held in with a retainer ring which must be removed first before attempting to remove the front bearing, *Figure 24*.

 The rear bearing (pulley end) should be removed first to provide more room for driving out the front bearing. IMPORTANT: Never re-use bearings once they have been removed from the bearing housing.

- d. Clean all foreign material from inside diameter of the bearing housing.
- e. When installing new bearings into the bearing housing, first press the front bearing into the housing until it bottoms. Then reinstall the retainer ring in front of the front bearing, *Figure 24*.
- f. With the bearing spacer in place, press the rear bearing into the housing until the spacer is snug between the two bearings, *Figure 24*.

IMPORTANT: Press the new bearings into the housing by pressing on the outer race of the bearing only. **DO NOT** hammer the bearings into the housing!

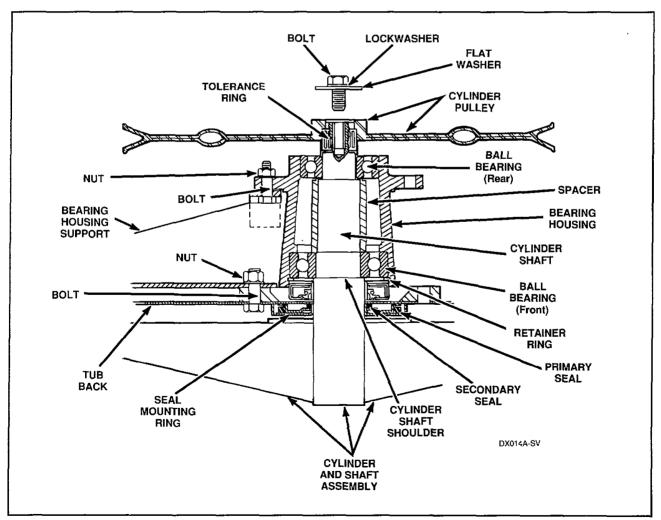


Figure 23

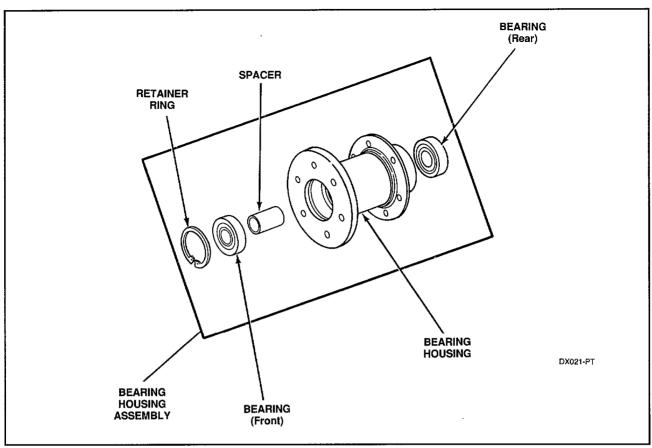


Figure 24

34. REASSEMBLY OF BEARING HOUSING AND CYLINDER ASSEMBLY

IMPORTANT: The reassembling of the bearing housing, tub back and cylinder assembly is an important factor in the proper operation of the washer.

- Reattach the tub back and bearing housing supports to the bearing housing and torque the mounting bolts to 75 foot pounds, Figure 23.
- b. Reattach the bearing housing supports to the rear flange of the bearing housing and torque the six mounting bolts to 35 foot pounds, *Figure 23*.

IMPORTANT: Apply a retaining compound (such as Loctite) to the bolt threads.

c. Install the new primary and secondary seals onto the seal mounting ring located on the cylinder shaft, *Figure 25*.

IMPORTANT: The seals must seat over the full circumference on the seal mounting ring.

- d. Apply No. 26594P Silicone lubricant to the area of the tub back where the primary and secondary seals will contact it.
- e. Carefully place the bearing housing and tub back on the cylinder shaft, *Figure 23*.

NOTE: Press against the inner and outer race of the rear bearing until the front bearing bottoms against the shoulder on the cylinder shaft, Figure 23.

- f. Place tolerance ring into position and start pulley onto cylinder shaft, *Figure 23*.
- g. Press pulley onto shaft until the pulley hub contacts the inner race of the rear bearing, Figure 23.
- h. Install the bolt, lockwasher and flat washer onto end of cylinder shaft, *Figure 23*, and torque bolt to 45 foot pounds.

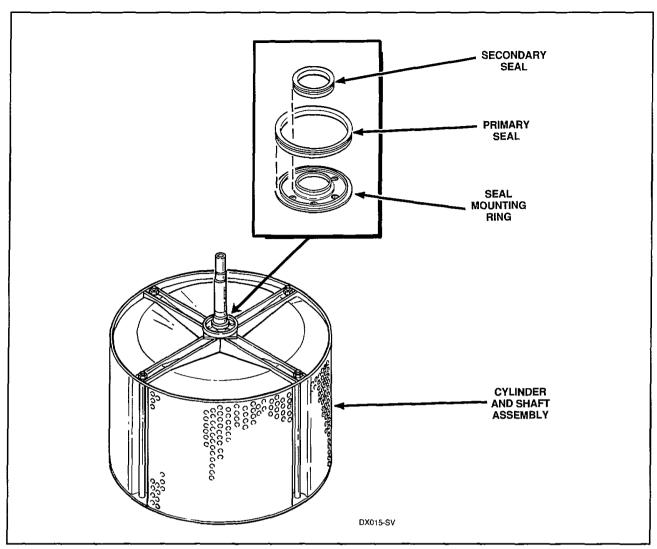


Figure 25

35. REASSEMBLY OF BEARING HOUSING, TUB BACK AND CYLINDER ASSEMBLY TO OUTER TUB

NOTE: The reassembly of bearing housing, tub back and cylinder assembly to the outer tub is basically the reverse procedures of the disassembly. However, the following operations must be performed:

 a. The tub back and the outer tub contact area has no gasket and is sealed with a silicone sealant such as Dow Corning Silastic® 732 RTV or equivalent.

NOTE: Before reassembly, remove all of the old sealer and apply a new bead of sealant in its place. Have the tub back in its correct orientation before it contacts the sealant in order not to scrub the sealant away from any given area.

b. The bolts, shims, lockwashers and nuts around the perimeter of the tub back must be reinstalled as they were originally and torqued to 35 foot pounds, Figure 22.

SECTION III Adjustments

36. PRESSURE SWITCH

The pressure switch is set at the factory for proper water fill levels. However, if there is a problem of overfilling or underfilling, the pressure switch can be adjusted as follows:

A WARNING -

To reduce the risk of an electric shock, disconnect electrical power to the washer before performing the following adjustment.

- a. Open dispenser door and remove the four screws holding dispenser to cabinet top, Figure 1.
- b. Insert key into cabinet top lock and unlock, *Figure 2*.

c. Lift up on rear of cabinet top, Figure 2.

d. Slide the cabinet top forward far enough to release the cabinet top from the two front hold-down brackets, *Figure 2*. Set cabinet top out of the way.

The maximum water fill level can be increased by turning the adjusting screw **clockwise** or decreased by turning the screw **counterclockwise**, *Figure 25*.

One-eighth turn of the adjusting screw represents approximately 1/4 inch increase or decrease of water level in cylinder.

IMPORTANT: DO NOT turn adjusting screw more than three-quarters of a turn in either direction.

NOTE: Lock is threaded and will require several **counterclockwise** turns to unlock.

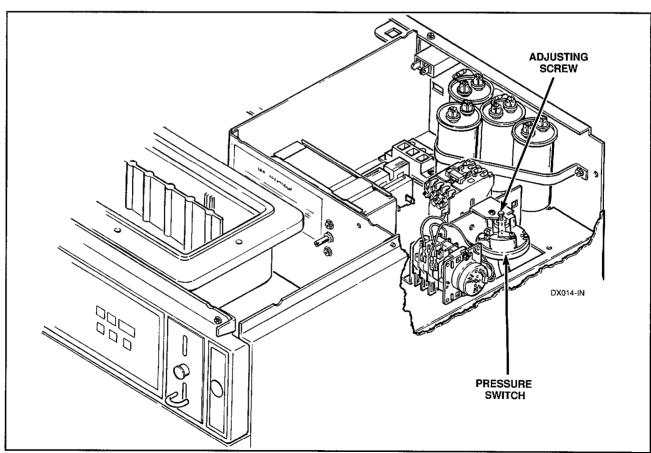


Figure 26

37. LOADING DOOR

The loading door can be adjusted up and down somewhat by loosening the bolts holding door to hinge, then raising or lowering the door before tightening the bolts.

Pressure on door can be varied by adding or removing shims behind the door hinge and/or the door lock plate.

38. DOOR LATCH SWITCH

The latch switch should "click" to the closed position when the tip of the door handle is 1/4 to 1/2 inch from its fully closed position.

The switch mounting plate has slotted holes to allow for large adjustments.

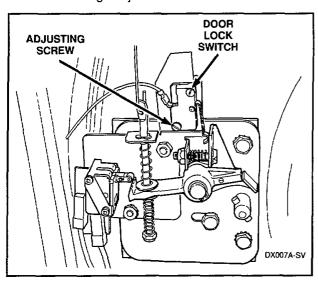


Figure 27

39. DOOR LOCK SWITCHES, SOLENOID AND MOUNTING BRACKET ASSEMBLY

- a. Open dispenser door and remove four screws holding dispenser to cabinet top, *Figure 1*.
- b. Insert key into cabinet top lock and unlock, Figure 2.

NOTE: Lock is threaded and will require several counterclockwise turns to unlock.

- c. Lift up on rear of cabinet top, Figure 2.
- d. Slide cabinet top forward far enough to release the cabinet top from the two front holddown brackets, *Figure 2*. Set cabinet top out of the way.
- e. Close the door firmly and latch the handle.
- f. Loosen 11/32" nuts holding solenoid and mounting bracket to back side of front channel, Figure 28.
- g. Manually hold the solenoid plunger in the closed position.
- Move the solenoid and bracket assembly up until you hear the door lock switch click.

NOTE: This adjustment moves the locking pawl up allowing the wheel on the switch actuating arm to contact the flat surface on the locking pawl, *Figure 29*. Over adjustment will allow the locking pawl to move above the wheel on the switch actuating arm, *Figure 29*.

- Check to see if the door is locked.
- Release solenoid, you should be able to unlock and open the door.
- k. Once the door locks and opens correctly, tighten the 11/32" nuts firmly.

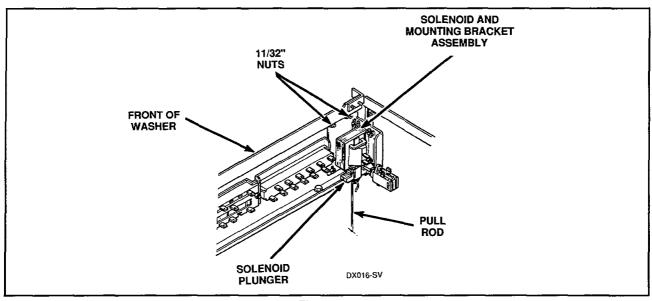


Figure 27

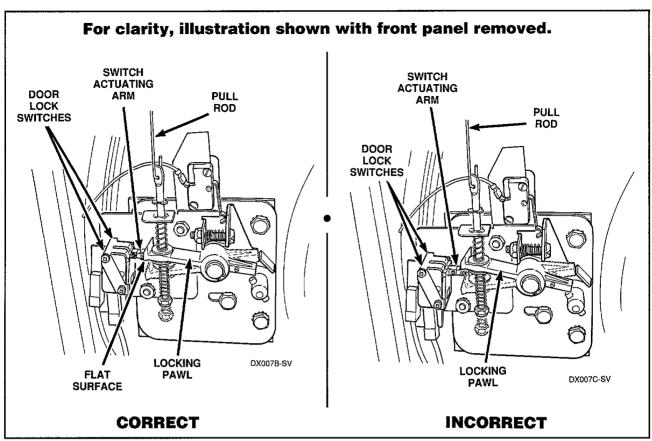


Figure 29

- I. Reconnect electrical power to the washer.
- m. Close loading door firmly and turn the door handle clockwise (vertical position).
- n. Select a wash cycle.
- Insert the required number of coins into the accumulator coin drop. After proper number of coins have been inserted, the red "ON" light will come on indicating start of cycle.
- Allow washer to operate for approximately five minutes.
- q. Check to see if the door is locked.
- r. Disconnect electrical power to the washer.
- s. Loading door should remain locked.

NOTE: With a power interruption, allow two to three minutes before attempting to open door.

SECTION IV Service Helps

40. WASHER DOES NOT DISPLAY VEND PRICE

| POSSIBLE CAUSE | TO CORRECT |
|--|--|
| Electric power disconnected or fuse blown. | Check incoming 120 Volt electrical power supply voltage or replace fuse. |
| Inoperative circuit breaker. | Check 7 Amp circuit breaker (located on rear cross channel). |
| Inoperative transformer. | Check for 12 Volt output from accumulator transformer. |
| Inoperative accumulator. | Try an accumulator known to be good. |
| Inoperative timer. | Timer has not completed cycle triggering reset through White/Yellow wire to accumulator. |
| Broken, loose or incorrect wiring. | Refer to the wiring diagram. |

41. WASHER DOES NOT COUNT COINS

| POSSIBLE CAUSE | TO CORRECT |
|--|--|
| Inoperative coin accumulator. | Check accumulator for short output signal at the Orange/White wire when preset number of coins is reached. Replace accumulator if necessary. |
| Electrical power disconnected or fuse blown. | Connect electrical power supply or replace fuse. |
| Inoperative accumulator transformer. | Check accumulator transformer for 12 Volt required by accumulator. |
| Inoperative coin acceptor. | Check coin switch to make sure coins trip switch and makes continuity across switch when closed. |
| Inoperative circuit breaker. | Check the 7 Amp circuit breaker (located on rear cross channel) to be sure it has not tripped or blown. |
| Broken, loose or incorrect wiring. | Refer to wiring diagram. |

42. WASHER WILL NOT START AFTER COINS COUNTED

| POSSIBLE CAUSE | TO CORRECT |
|----------------------------|--|
| Inoperative program timer. | Rapid advance motor on program timer is not advancing timer into cycle. Check motor and check power to timer from accumulator. |
| Door does not lock. | The door must be locked for the washer to continue the cycle. The following sequence must have taken place to advance timer before door locks: Loading door closed. Proper number of coins inserted to start washer. Accumulator counted and credited coins to advance timer into cycle closing "ON/OFF" cam. Door locking solenoid. If electrical power is available to the door solenoid but solenoid does not close, replace solenoid. |

43. WASHER DOES NOT START

| POSSIBLE CAUSE | TO CORRECT |
|--|---|
| Electric power disconnected or fuse blown. | Connect electrical power or replace fuse. |
| Improperly adjusted door latching switch. | Adjust switch, paragraph 38. |
| Inoperative coin accepter. | Check coin switch for proper operation. Replace if inoperative. Check coin accepter and replace if inoperative. |
| Motor overload protector has cycled. | Wait 15 to 30 minutes for overload protector to reset. |
| Inoperative program timer motor. | Replace timer motor. |
| Broken, loose or incorrect wiring. | Refer to wiring diagram. |

44. DRIVE MOTOR DOES NOT RUN

| POSSIBLE CAUSE | TO CORRECT |
|---|---|
| No electrical power. | Check the washer's 7 Amp circuit breaker (located on rear cross channel) to be sure it is not tripped or blown. |
| Inoperative program timer. | Check timer and replace if inoperative. |
| Inoperative reversing timer. | Check timer and replace if inoperative. |
| Selector switch improperly set, or inoperative. | Setswitch, check switch and replace if inoperative. |
| Improperly adjusted door latching switch. | Adjust switch, paragraph 38. |
| Inoperative door latching switch. | Check switch and replace if inoperative. |
| Improperly adjusted door lock switch. | Adjust switch, paragraph 39. |
| Inoperative door lock switch. | Check switch and replace if inoperative. |
| Motor overload protector has cycled. | Wait two or three minutes for overload protector to reset. |
| Inoperative capacitor. | Check capacitor and replace if inoperative. |
| Inoperative drive motor. | Check motor and replace if inoperative. |
| Broken, loose or incorrect wiring. | Refer to wiring diagram. |

45. WASHER STARTS BUT WILL NOT ADVANCE THROUGH CYCLE

| POSSIBLE CAUSE | TO CORRECT |
|----------------------------------|--|
| Inoperative program timer motor. | Check timer motor and replace if inoperative. |
| Obstruction in drain valve. | Clean valve, refer to Parts Section for assembly sequence of valve. |
| Obstructed drain system. | If washer stalls ahead of spin cycles (pressure switch reset), check for blockage of drain system that will stop timer advance by preventing resetting of the pressure switch. |
| Kinked drain hose. | Straighten drain hose. |
| Incorrect wiring. | Refer to wiring diagram. |

46. HOT WATER DOES NOT ENTER CYLINDER

| POSSIBLE CAUSE | TO CORRECT |
|--|---|
| Hot water supply line closed. | Check for closed valve, kinked hose or obstruction in line. |
| WASH CYCLE switch improperly set or inoperative. | Reset switch or replace if inoperative. |
| Inoperative pressure switch. | Check pressure switch continuity between terminals "1" and "2". |
| Inoperative hot water solenoid. | Check coil continuity at terminals and replace if inoperative. |
| Clogged water valve inlet screen. | Remove and clean or replace screen. |
| Broken, loose or incorrect wiring. | Refer to wiring diagram. |

47. COLD WATER DOES NOT ENTER CYLINDER .

| POSSIBLE CAUSE | TO CORRECT |
|--|---|
| Cold water supply line closed. | Check for closed valve, kinked hose, or obstruction in line. |
| WASH CYCLE switch inproperly set or inoperative. | Reset switch or replace if inoperative. |
| Inoperative pressure switch. | Check pressure switch continuity between terminals "1" and "2". |
| Inoperative cold water solenoid. | Check coil continuity at terminals and replace if inoperative. |
| Clogged water valve inlet screen. | Remove and clean or replace screen. |
| Broken, loose or incorrect wiring. | Refer to wiring diagram. |

48. WARM WATER DOES NOT ENTER CYLINDER

| POSSIBLE CAUSE | TO CORRECT |
|----------------|------------------------|
| No hot water. | Refer to paragraph 46. |
| No cold water. | Refer to paragraph 47. |

49. NO HOT WATER IN DETERGENT DISPENSER

| POSSIBLE CAUSE | TO CORRECT |
|---------------------------------|---|
| Inoperative WASH DISP cam. | Check for voltage at WASH DISP cam to close hot water solenoid. |
| Inoperative pressure switch. | Check pressure switch continuity between terminals "1" and "2". |
| Inoperative hot water solenoid. | Check coil continuity at terminals and replace if necessary. |

50. CYLINDER DOES NOT FILL

| POSSIBLE CAUSE | TO CORRECT |
|--------------------------------------|--|
| No hot water. | Refer to paragraph 46. |
| No cold water. | Refer to paragraph 47. |
| Improperly adjusted pressure switch. | Adjust switch, paragraph 36. |
| Inoperative drain valve. | Check the following: Drain valve blockage. Drain valve and gear train. Electrical power to drain valve, if no power to drain valve check Brown/Yellow circuit for power. |
| Inoperative pressure switch. | Check switch and replace if inoperative. |
| Inoperative program timer. | Check timer and replace if inoperative. |
| Obstruction in drain valve. | Clean drain valve, refer to the Parts Section for assembly sequence of valve. |
| Clogged inlet valve screens. | Remove inlet hoses from inlet valve and clean or replace screens. |
| Inoperative inlet valve. | Check inlet valve solenoids for proper operation, replace if inoperative. |
| Inoperative selector switch. | Check switch and replace if inoperative. |
| Broken, loose or incorrect wiring. | Refer to wiring diagram. |

51. WATER DOES NOT SHUT OFF (Water level too High)

| POSSIBLE CAUSE | TO CORRECT |
|--|--|
| Inoperative pressure switch. | Check for blockage in pressure hose. Check pressure switch open circuit across terminals "1" and "2". Replace pressure switch if contacts do not open. |
| Improperly adjusted pressure switch. | Adjust switch, paragraph 36. |
| Sediment in water inlet valve. | Disassemble valve and clean. Refer to Parts Section for assembly sequence. |
| Weak or broken armature spring in water inlet valve. | Replace spring. |
| Incorrect wiring. | Refer to wiring diagram. |

52. WATER DOES NOT DRAIN OR DRAINS SLOW FROM CYLINDER

| POSSIBLE CAUSE | TO CORRECT |
|----------------------------|---|
| Inoperative drain valve. | Check the following: Drain valve blockage. Drain valve motor and gear train. |
| Improper drain facilities. | Check the building drain system for blockage or inadequate size. |
| Kinked drain hose. | Straighten drain hose. |
| Incorrect wiring. | Refer to wiring diagram. |

53. WASHER DOES NOT TUMBLE

| POSSIBLE CAUSE | TO CORRECT |
|------------------------------------|--|
| Inoperative R2 relay. | Check continuity between terminals "13" and "14" on relay. |
| Inoperative wash speed capacitor. | Check capacitor and replace if inoperative. |
| Loose or broken drive belt. | Check belt tension spring or replace drive belt. |
| Inoperative drive motor. | Check motor and replace if inoperative. |
| Broken, loose or incorrect wiring. | Refer to wiring diagram. |

54. WASHER TUMBLES ONLY IN ONE DIRECTION

| POSSIBLE CAUSE | TO CORRECT |
|------------------------------|---|
| Inoperative reversing timer. | Check reversing timer for motion, if none, check for electrical power to timer motor and check continuity of timer motor. |

55. WASHER DOES NOT SPIN

| POSSIBLE CAUSE | TO CORRECT |
|------------------------------------|--|
| Motor does not run. | Refer to paragraph 44. |
| Inoperative spin relay. | Check spin relay coil for continuity, replace if shorted. Check relay contacts. |
| Inoperative pressure switch. | Check pressure switch for contact across terminals "1" and "2" indicating pressure switch has reset. |
| Inoperative spin capacitor. | Check and replace spin capacitor if inoperative. |
| Loose or broken drive belt. | Check belt tension spring or replace drive belt. |
| Broken, loose or incorrect wiring. | Refer to wiring diagram. |

56. WASHER DOES NOT STOP AT END OF CYCLE

| POSSIBLE CAUSE | TO CORRECT |
|-------------------------------|--|
| Inoperative coin accumulator. | Check for continuous output from terminal where Orange/White wire connects to accumulator. If so, replace accumulator. |

57. LOADING DOOR WILL NOT OPEN

| POSSIBLE CAUSE | TO CORRECT |
|------------------------------------|---|
| Inoperative timer. | Make sure washer is in "OFF" position allowing the timer to authorize door unlock. |
| Inoperative door lock solenoid. | Check that door lock solenoid is not stuck shut. |
| No electrical power. | Check the washer's 7 Amp circuit breaker (located on rear cross channel) to be sure it has not tripped or blown. In case of power interruption, allow two to three minutes for thermoactuator to cool before attempting to open door. |
| Broken, loose or incorrect wiring. | Refer to wiring diagram. |

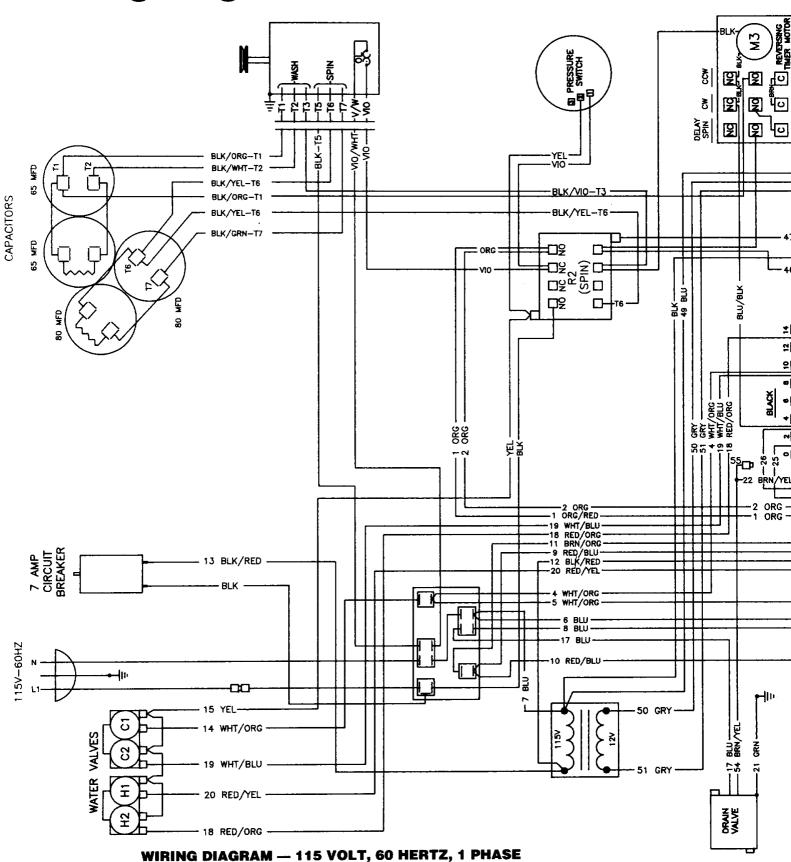
58. DOOR LEAKS

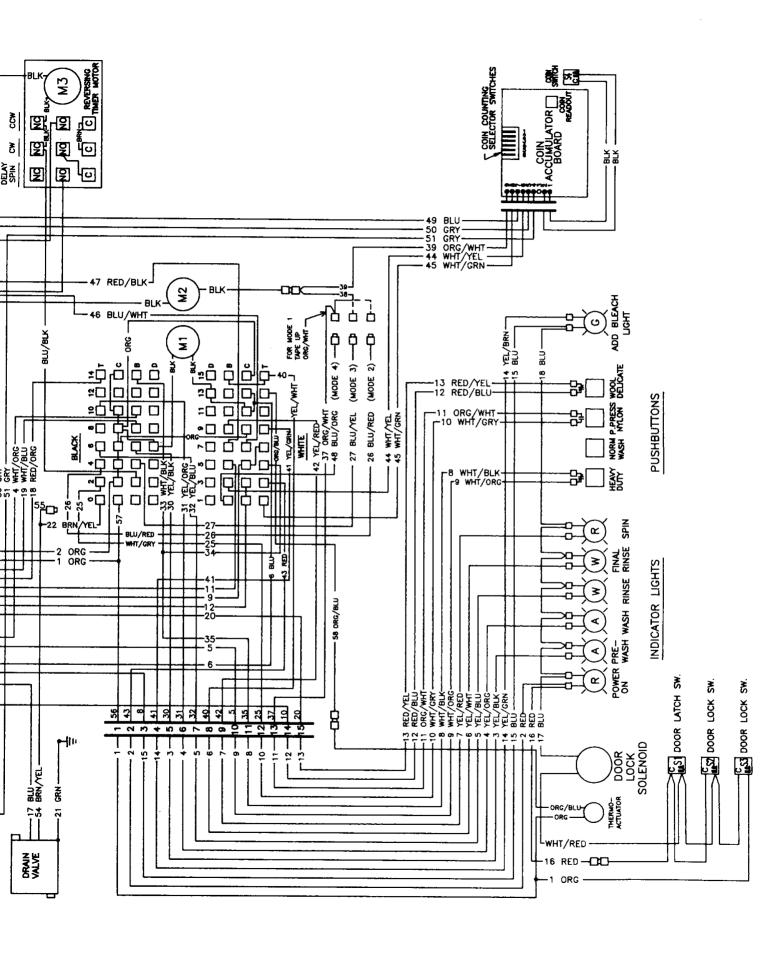
| POSSIBLE CAUSE | TO CORRECT |
|---------------------------------------|--|
| Insufficient pressure on door gasket. | Adjust pressure by removing shims from either the hinge or from the door latch, depending on the area of the leak. |
| Damaged gasket. | Replace gasket. |

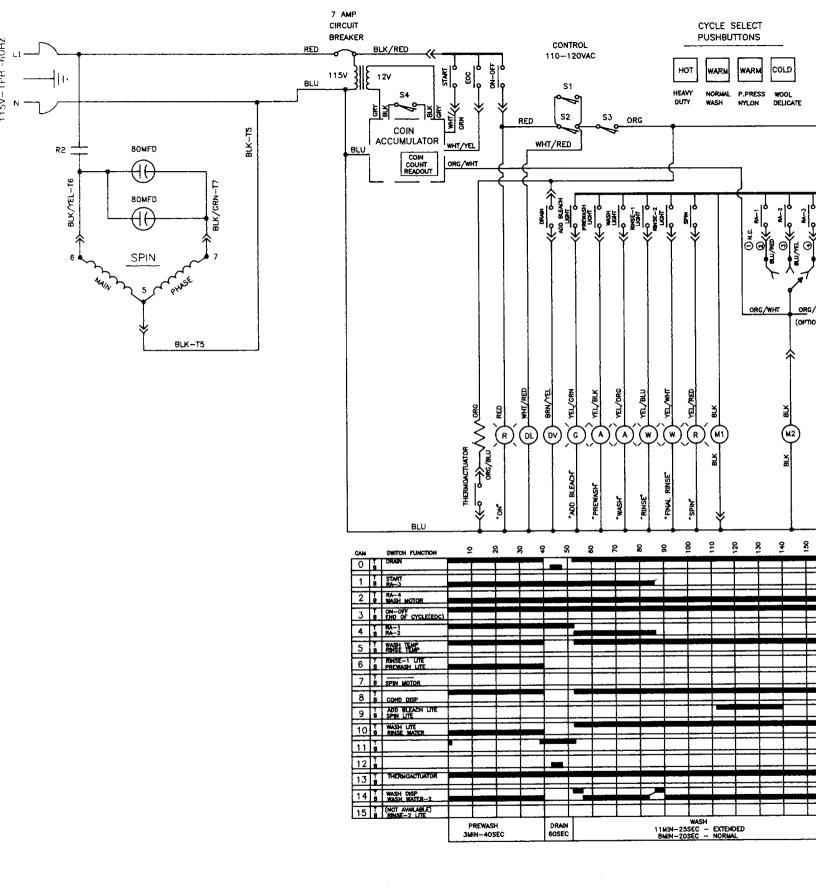
59. EXCESSIVE VIBRATION

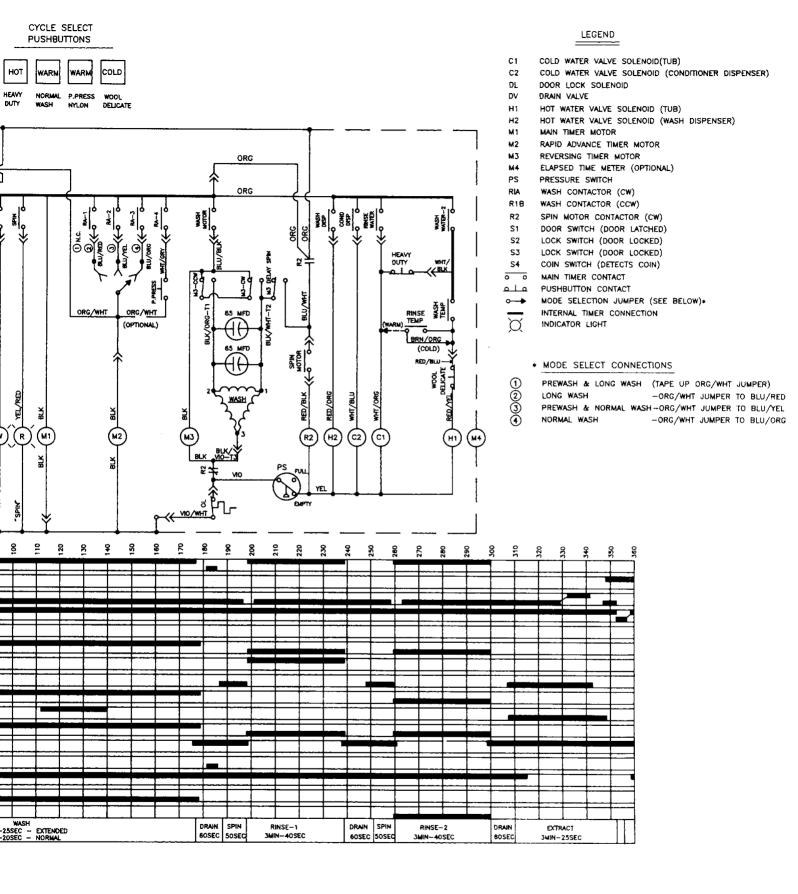
| POSSIBLE CAUSE | TO CORRECT |
|----------------------------------|--|
| Unbalanced load in cylinder. | Stop washer, redistritube load, then restart washer. |
| Loosened nuts on mounting bolts. | Tighten nuts. |
| Loose cabinet screws. | Tighten screws. |
| Worn drive belt. | Check belt and replace if worn. |

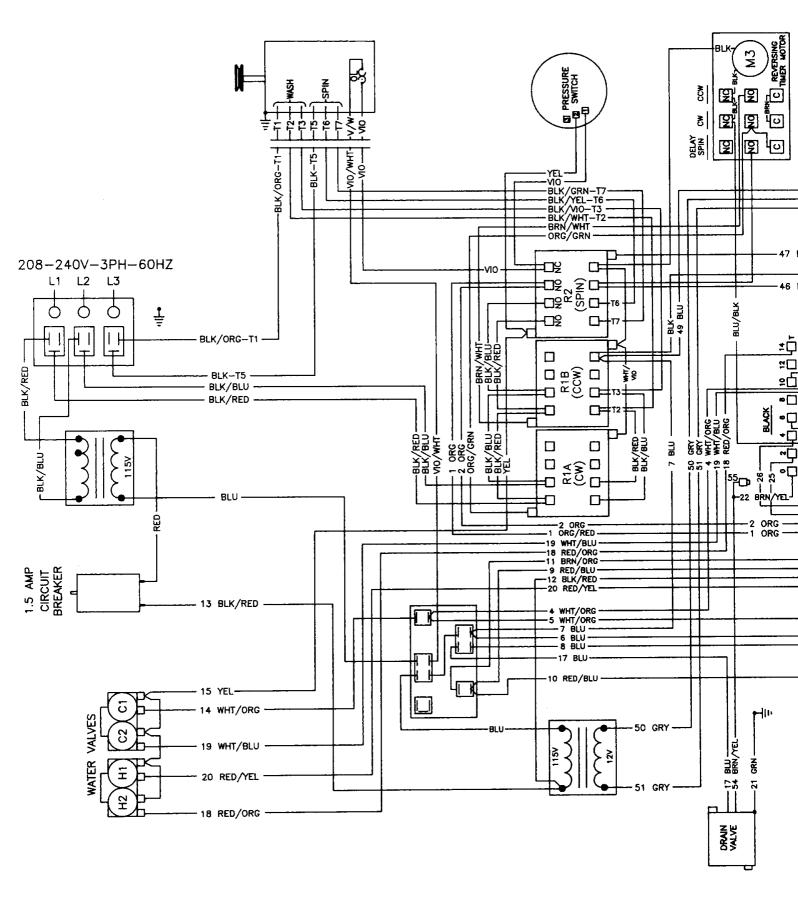
Section V Wiring Diagrams and Schematics



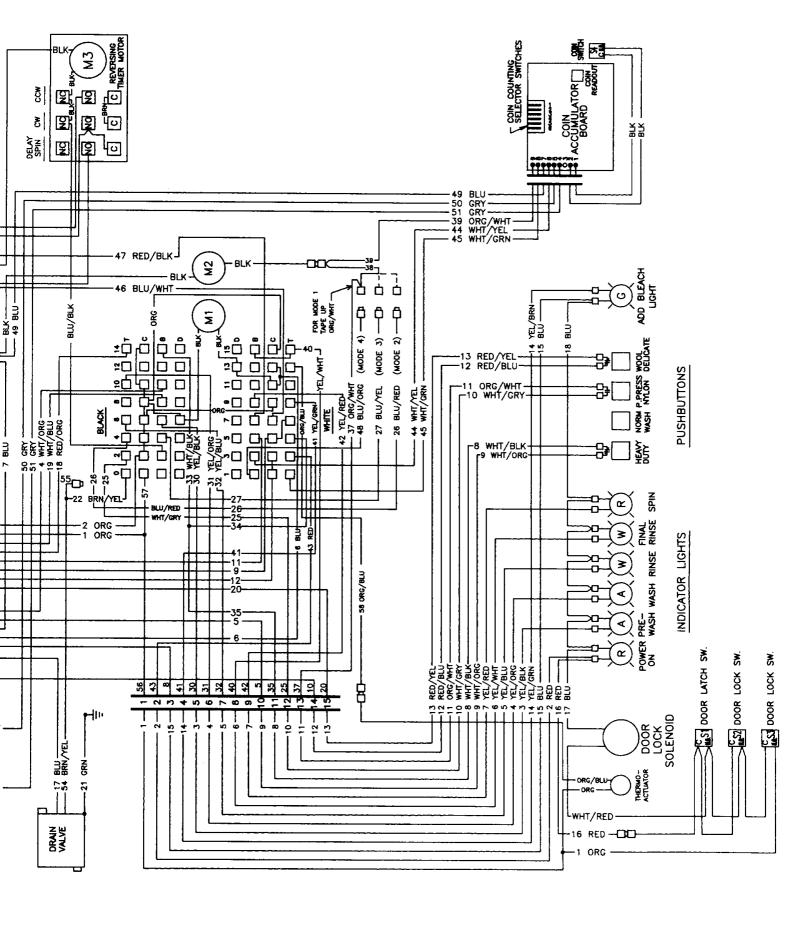


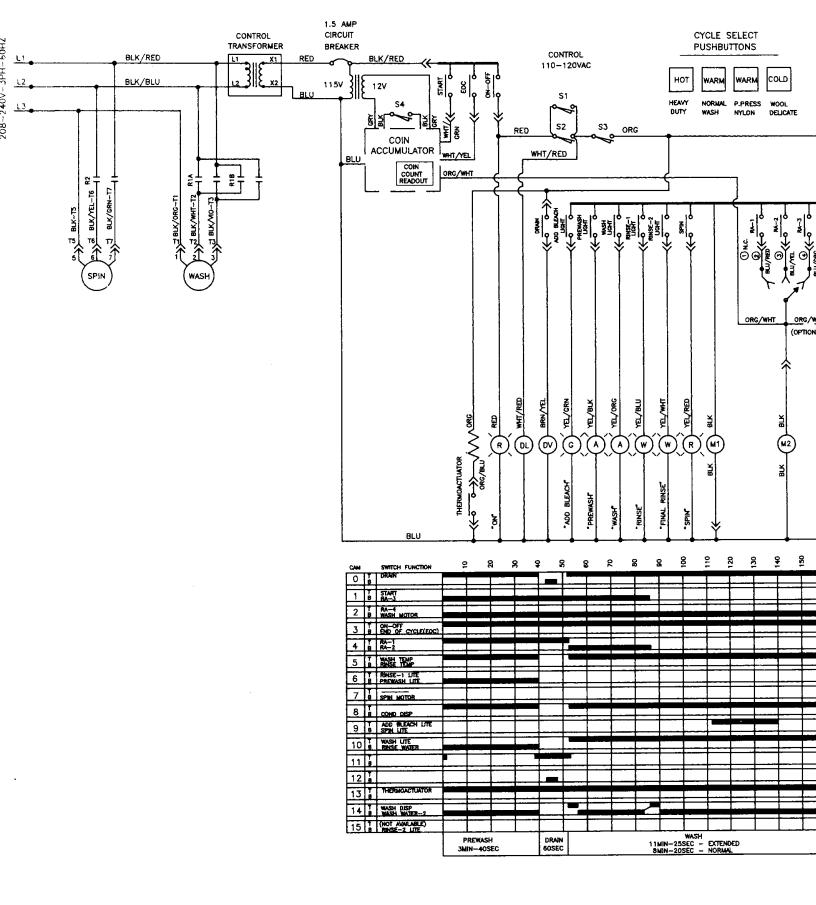






WIRING DIAGRAM — 208/240 VOLT, 60 HERTZ, 3 PHASE





COLD WATER VALVE SOLENOID(TUB) COLD WATER VALVE SOLENOID (CONDITIONER DISPENSER) HOT WATER VALVE SOLENOID (TUB) HOT WATER VALVE SOLENOID (WASH DISPENSER) MODE SELECTION JUMPER (SEE BELOW).

PREWASH & LONG WASH (TAPE UP ORG/WHT JUMPER) -ORG/WHT JUMPER TO BLU/RED PREWASH & NORMAL WASH-ORG/WHT JUMPER TO BLU/YEL -ORG/WHT JUMPER TO BLU/ORG

