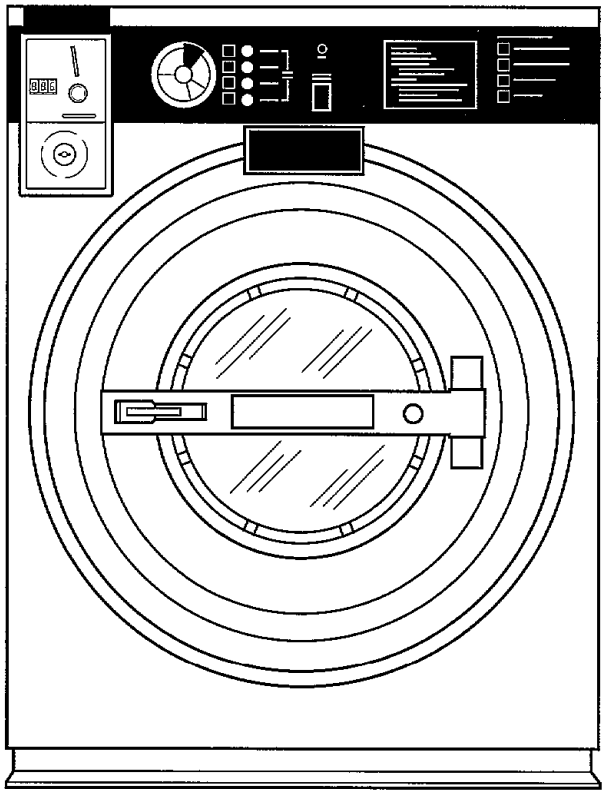
Raytheon Appliances
Commercial Laundry Division

Commercial Washer-Extractor

Model WX75113



X091PE1A

PARTS & SERVICE

Technical Publications
P O Box 990
Ripon, WI 54971

Part No. G143560
11/95

⚠WARNING

Failure to install, maintain, and/or operate this product according to the manufacturer's instructions may result in conditions which can produce serious injury, death and/or property damage.

Do not repair or replace any part of the product or attempt any servicing unless specifically recommended or published in this Service Manual and that you understand and have the skills to carry out.

Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the product is properly grounded and to reduce the risk of fire, electric shock, serious injury, or death. W006R1

⚠WARNING

Repairs that are made to your products by unqualified persons can result in hazards due to improper assembly to adjustments subjecting you, or the inexperienced person making such repairs, to the risk of serious injury, electrical shock, or death. W007

⚠CAUTION

If you or an unqualified person perform service on your product, 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. W008

NOTE: The WARNINGS 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 these washers. These factors MUST BE supplied by the person(s) installing, maintaining, or operating the washer.

Always contact your dealer, distributor, service agent or the manufacturer about any problem or conditions you do not understand.

In order to locate an authorized service agency, please consult your telephone book or the source from where you purchased this product. If you require further assistance, please contact:

Speed Queen Company
Customer Service Department
P.O. Box 990
Ripon, WI 54971-0990
Phone: (414) 748-3121

Recognize Safety Symbols, Words and Labels

⚠ **DANGER -- Immediate hazards which WILL result in serious injury or death**

⚠ **WARNING -- Hazards or unsafe practices which COULD result in serious injury or death.**

⚠ **CAUTION -- Hazards or unsafe practices which COULD result in minor or moderate injury or product or property damage.**

W009

Serial Plate and Nameplate 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 below.

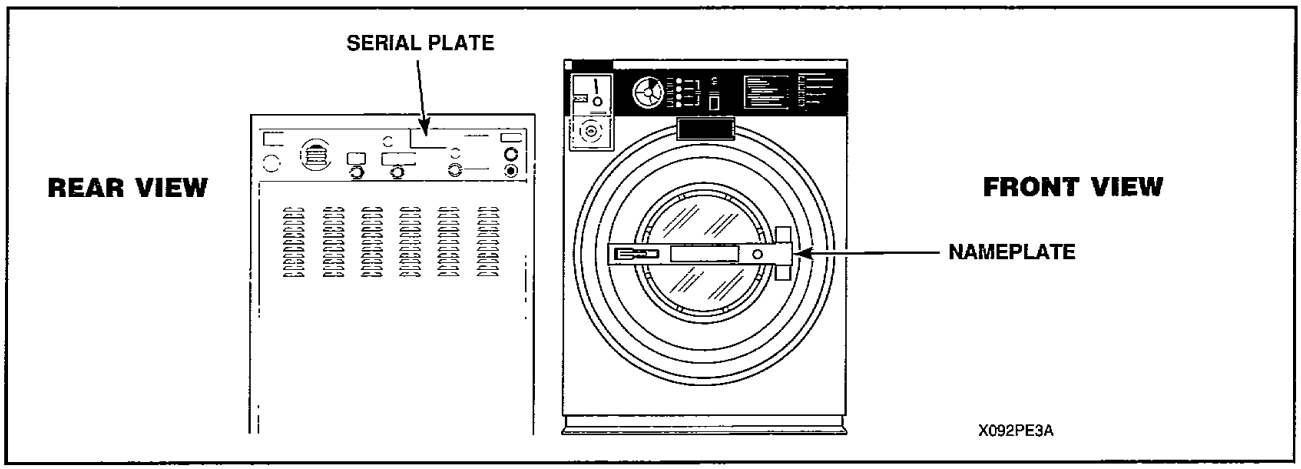
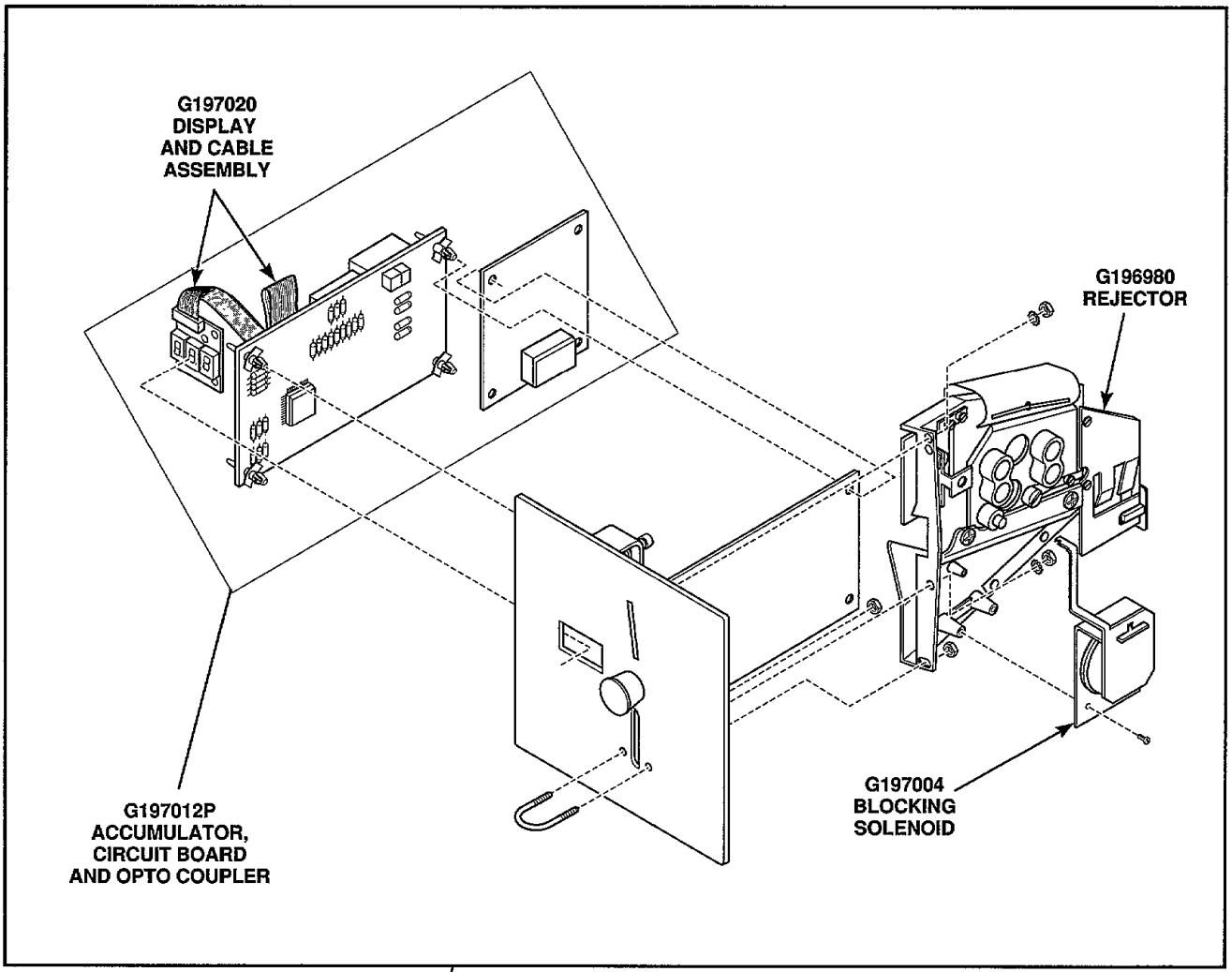
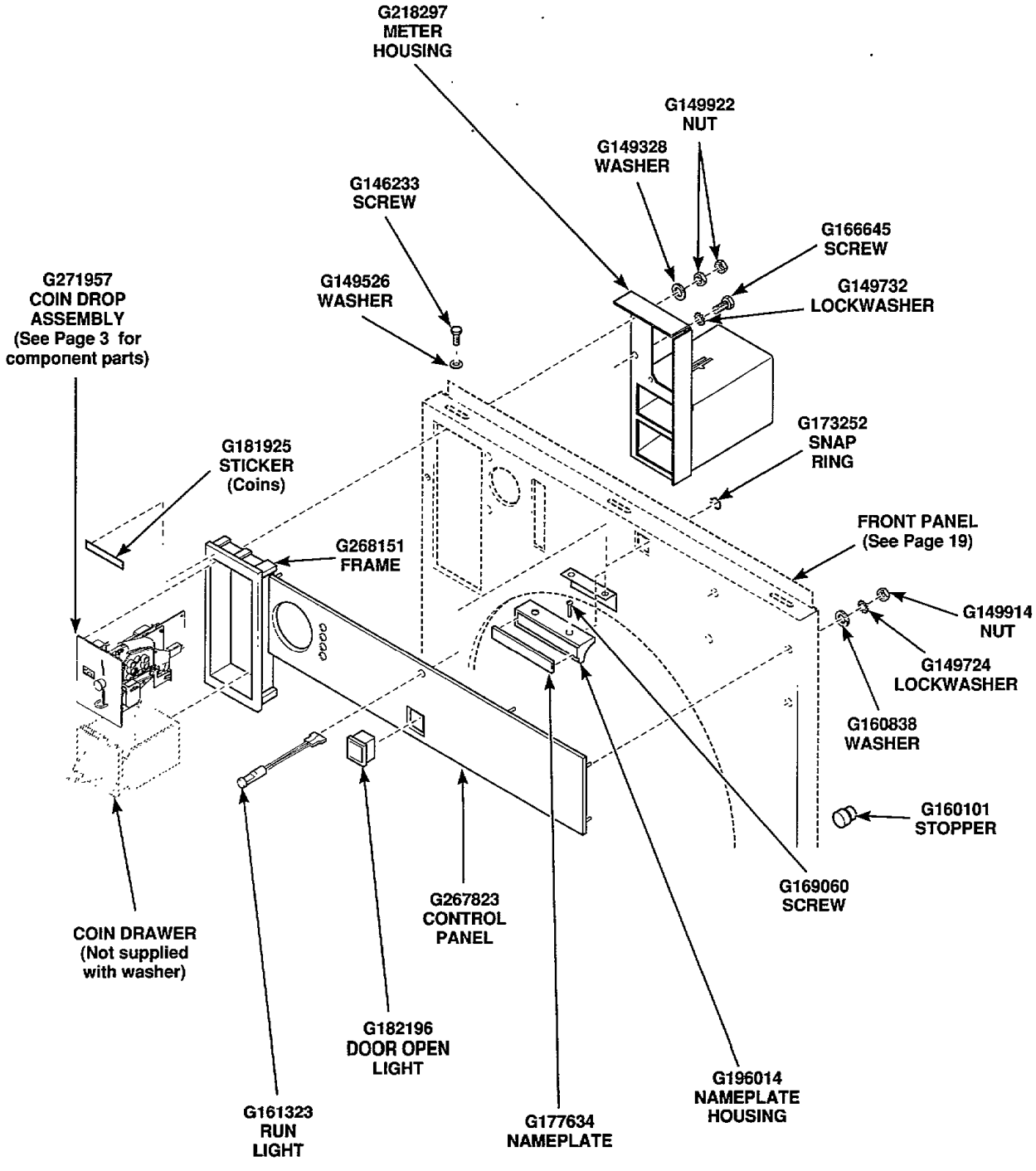


Table of Contents

SECTION 1
Parts

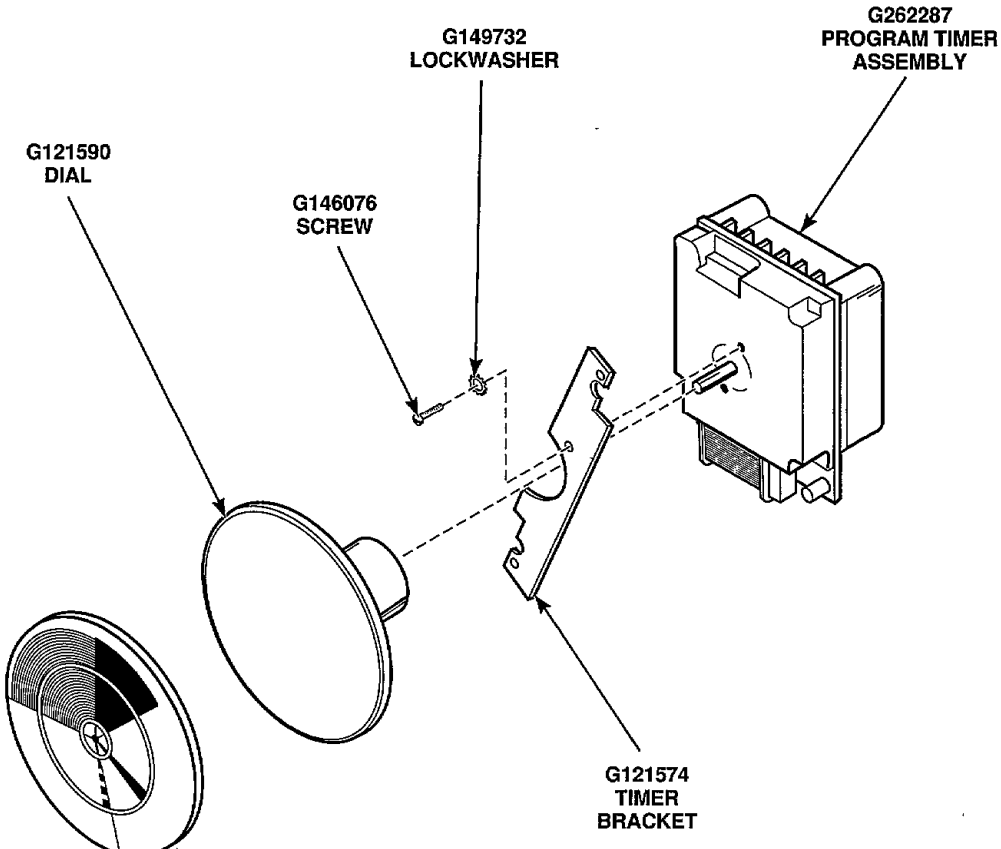


COIN DROP ASSEMBLY



CONTROL PANEL AND METER HOUSING

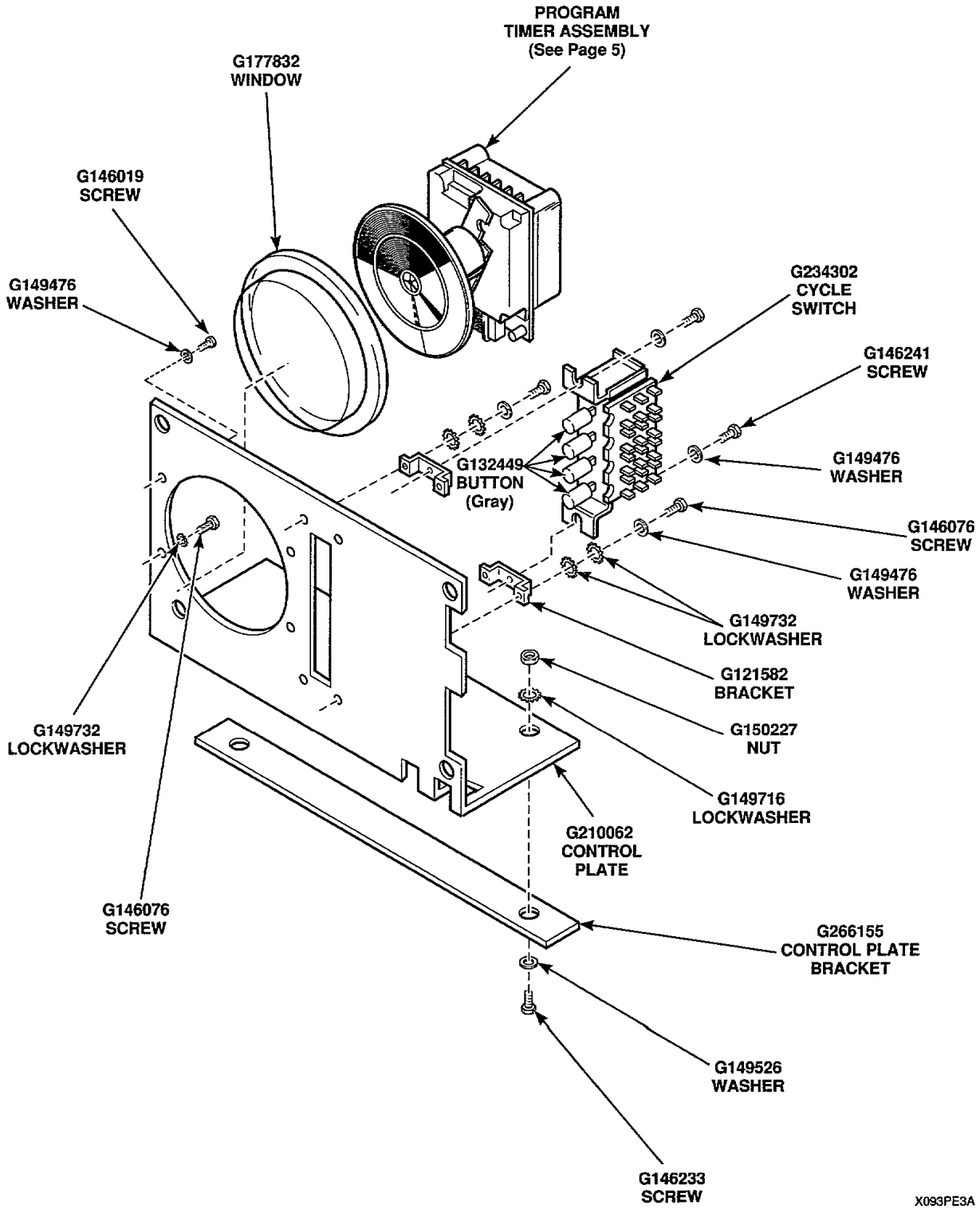
G143560



DIAL PLATE	
Models Without Prewash	G145771
Models With Prewash	G177667

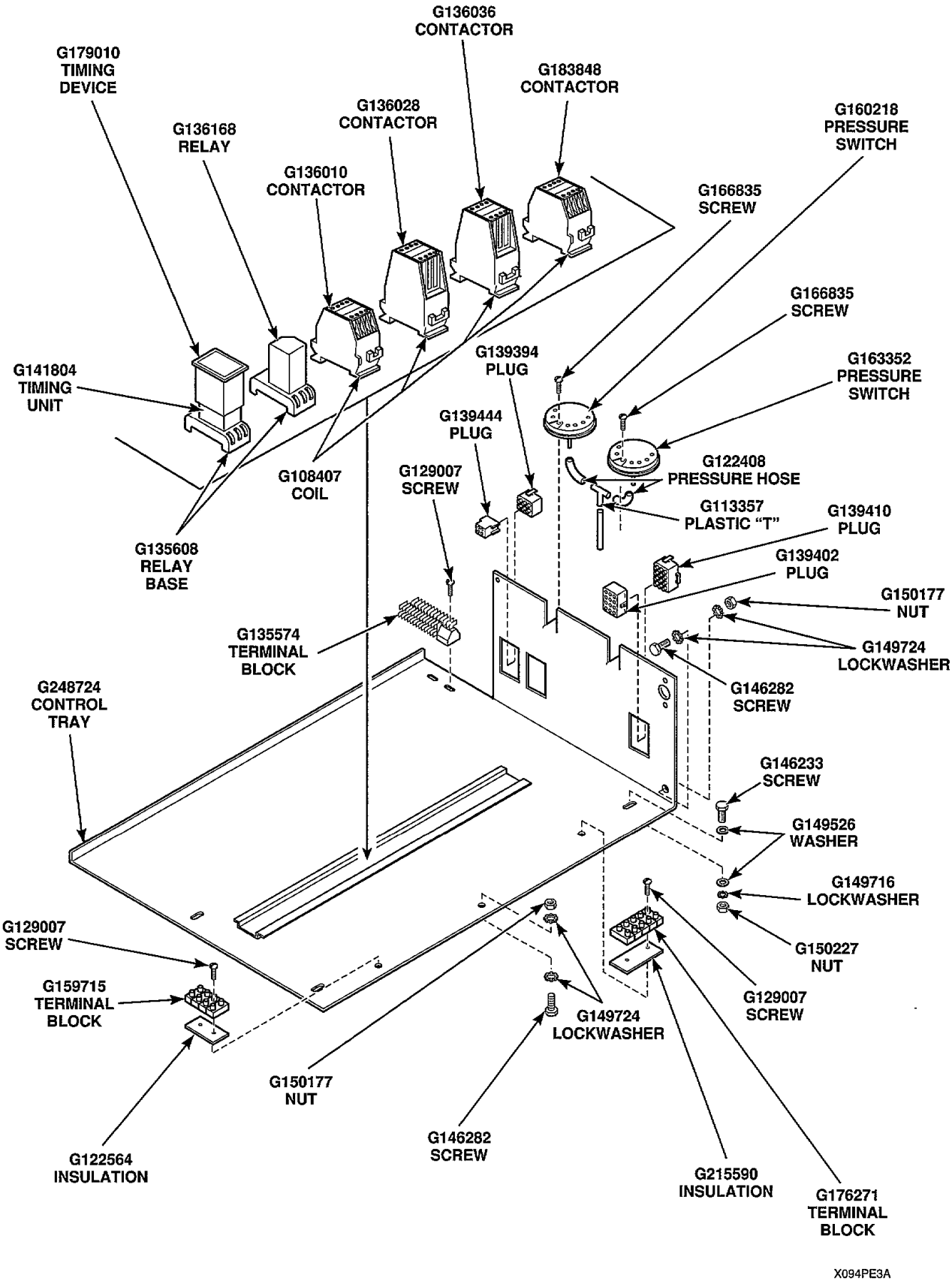
X011PE3A

PROGRAM TIMER ASSEMBLY

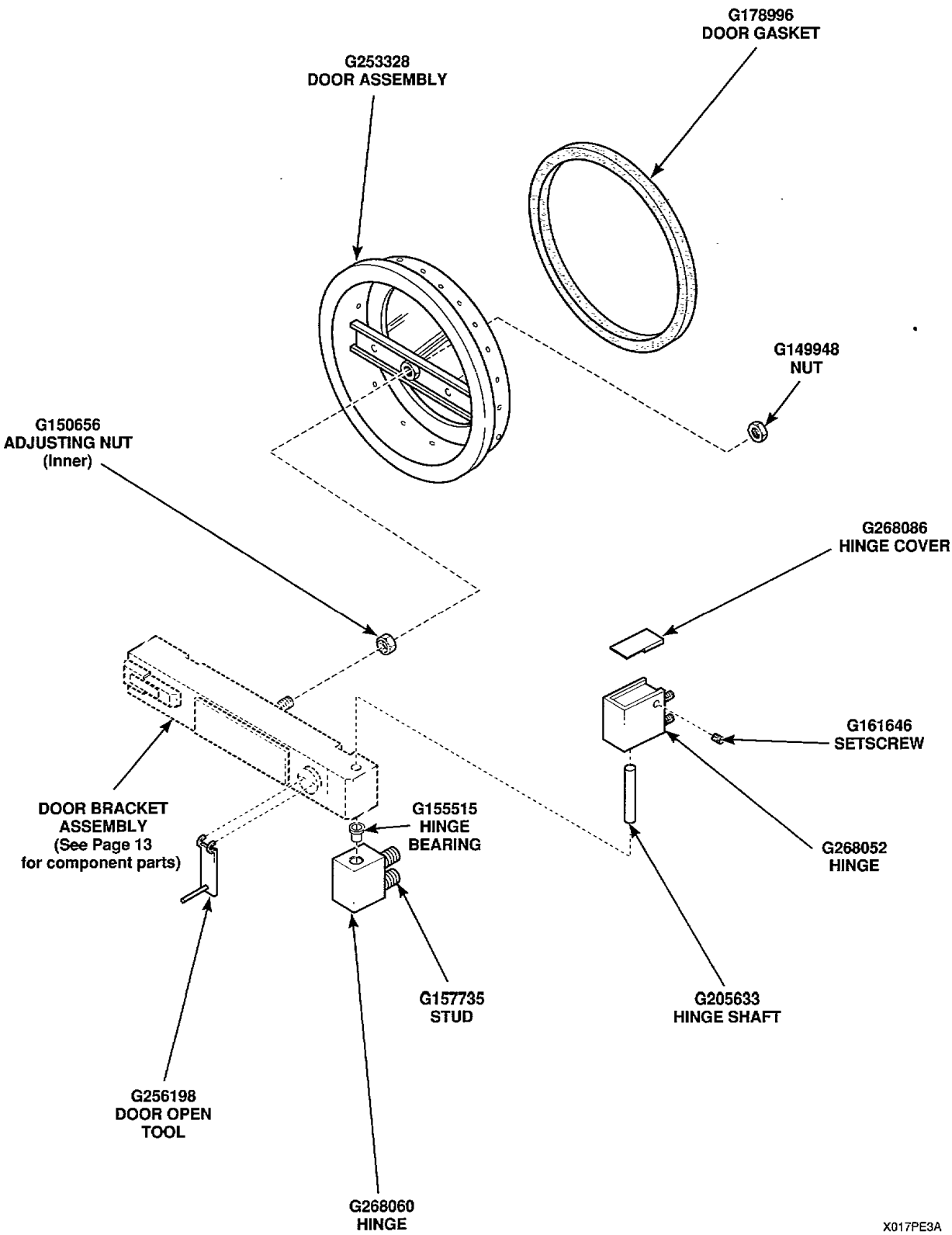


CONTROL PLATE AND CONTROLS

G143560

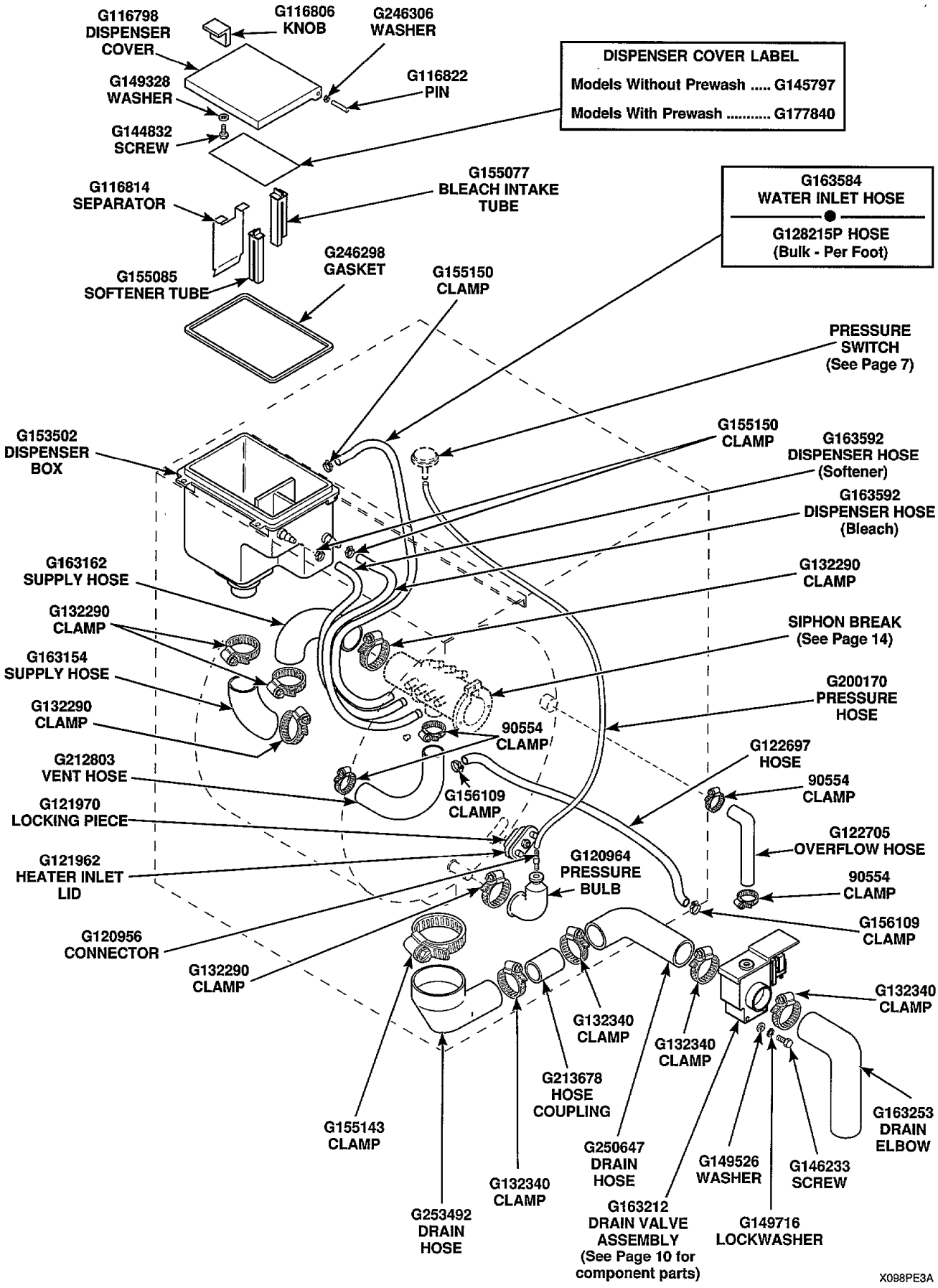


CONTROL TRAY AND CONTROLS



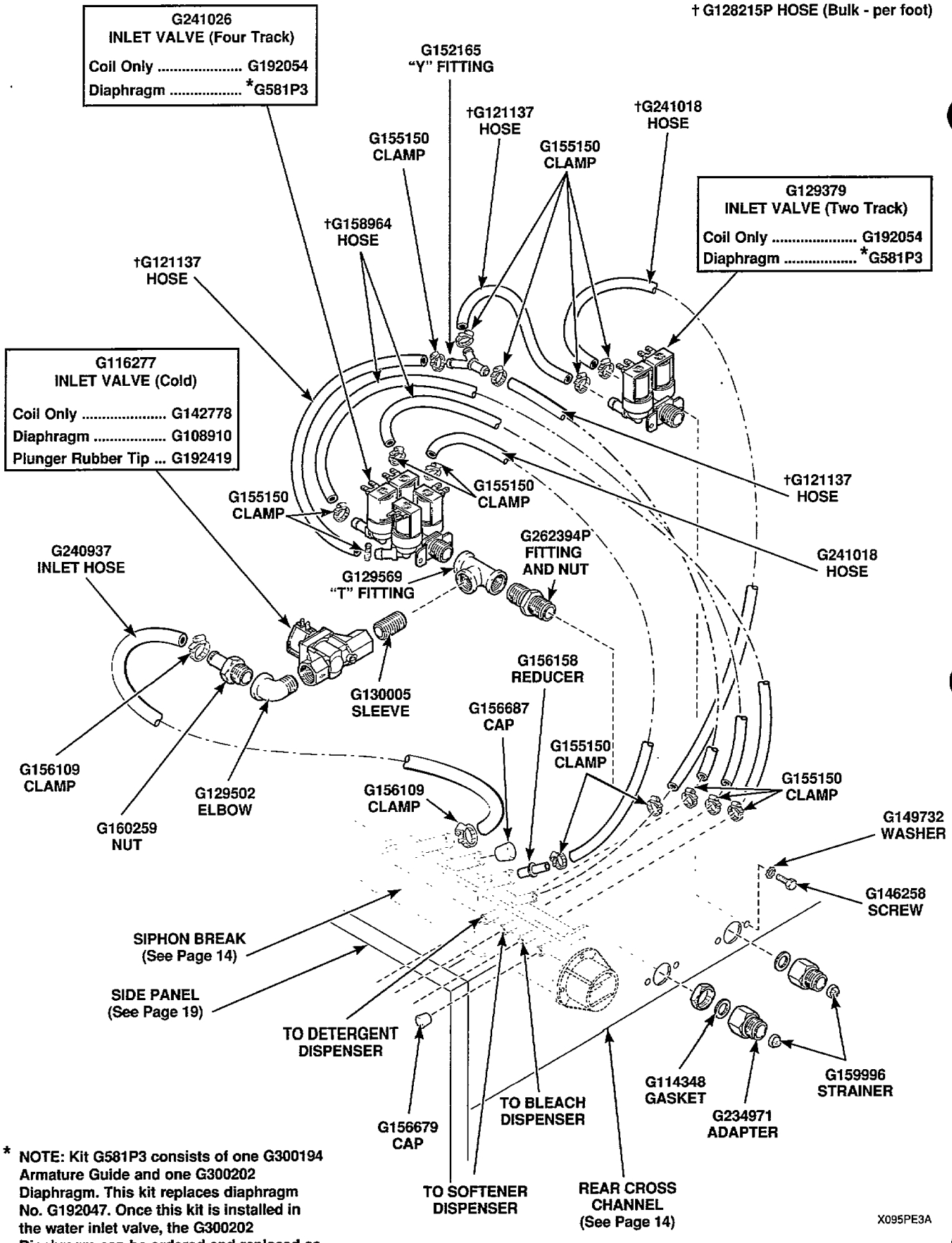
DOOR ASSEMBLY

G143560



DISPENSER, HOSES AND DRAIN VALVE ASSEMBLY

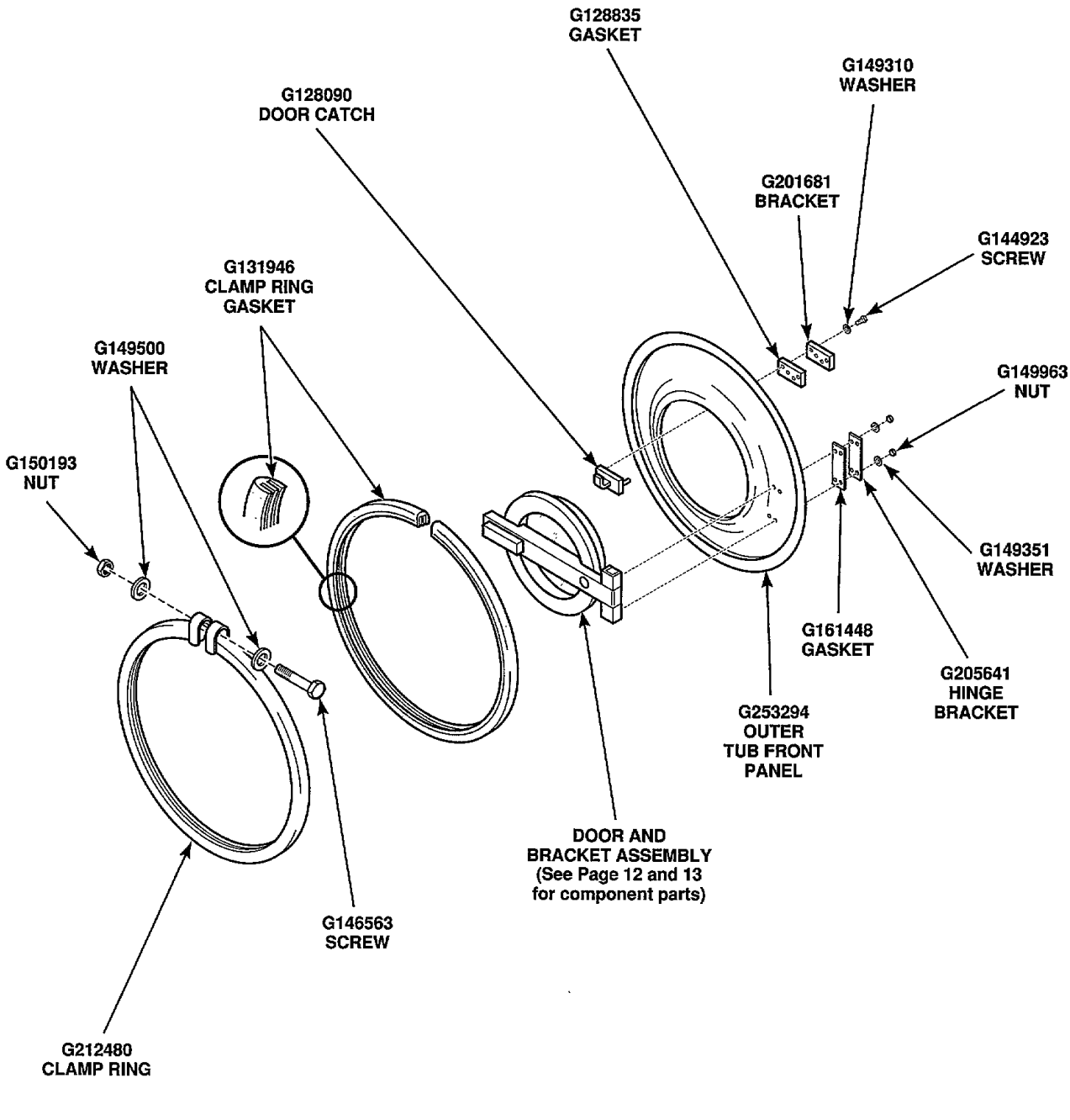
† G128215P HOSE (Bulk - per foot)



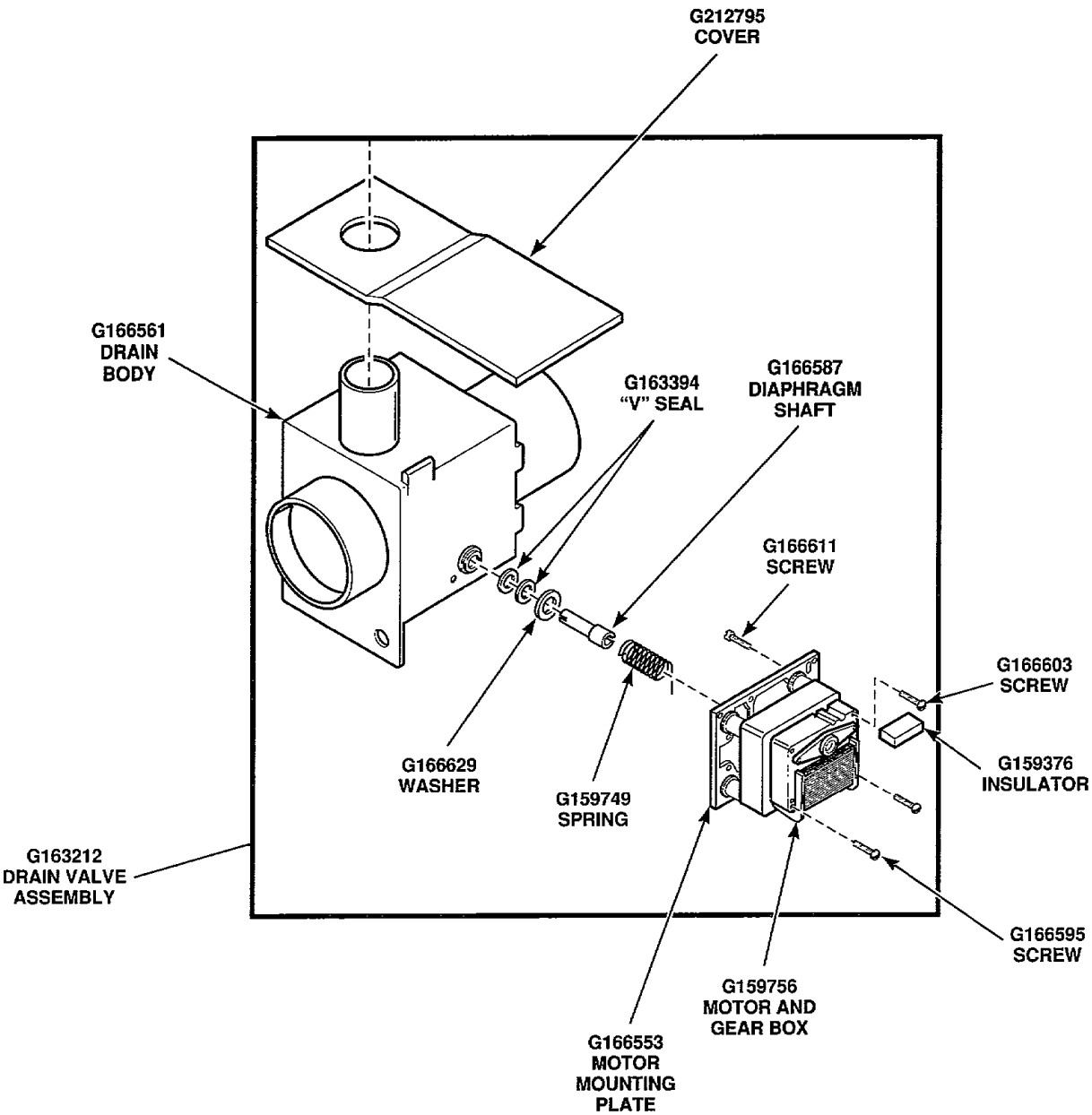
* NOTE: Kit G581P3 consists of one G300194 Armature Guide and one G300202 Diaphragm. This kit replaces diaphragm No. G192047. Once this kit is installed in the water inlet valve, the G300202 Diaphragm can be ordered and replaced as a separate part.

WATER INLET VALVES AND HOSES

G143560



OUTER TUB FRONT PANEL AND DOOR ASSEMBLY



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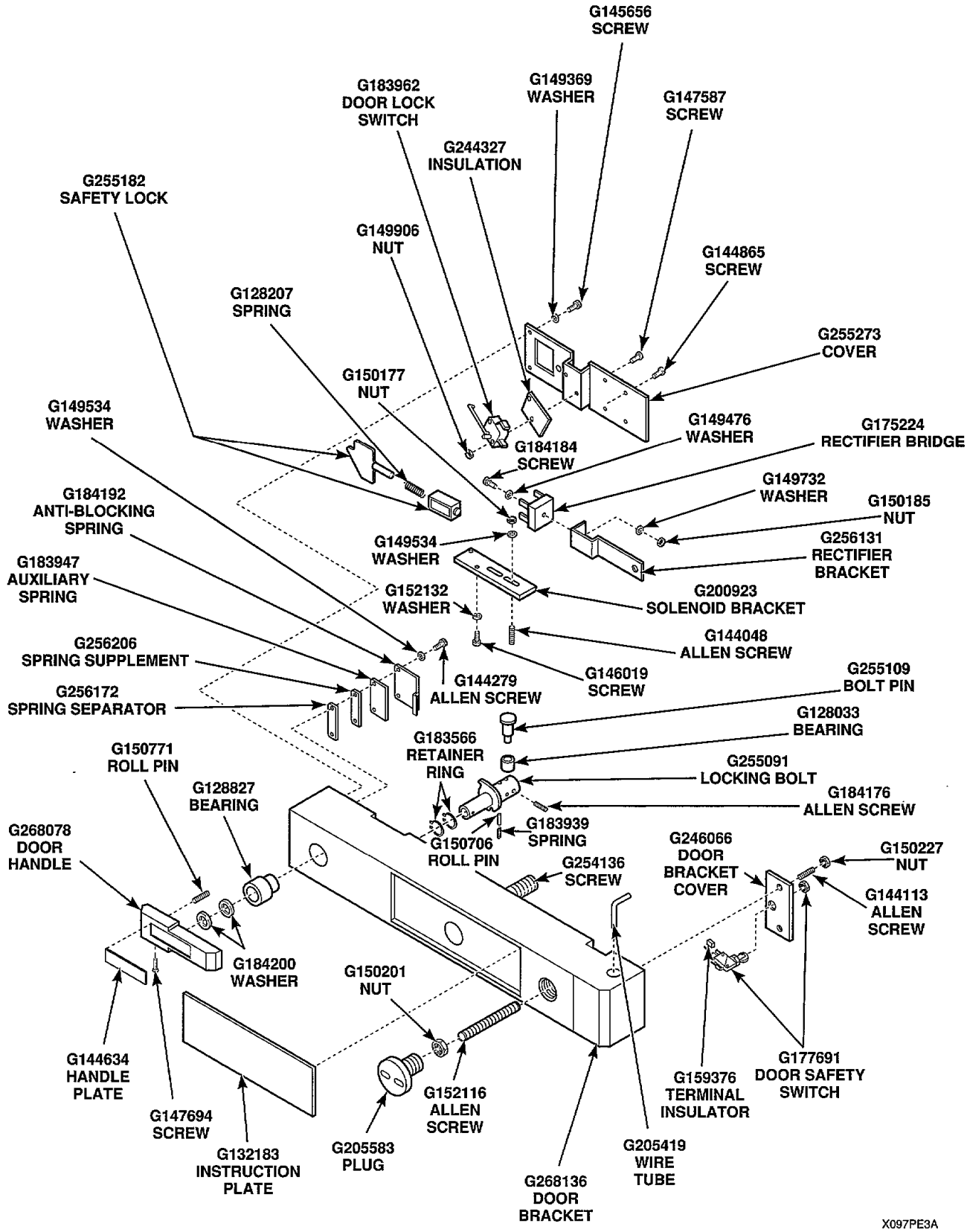
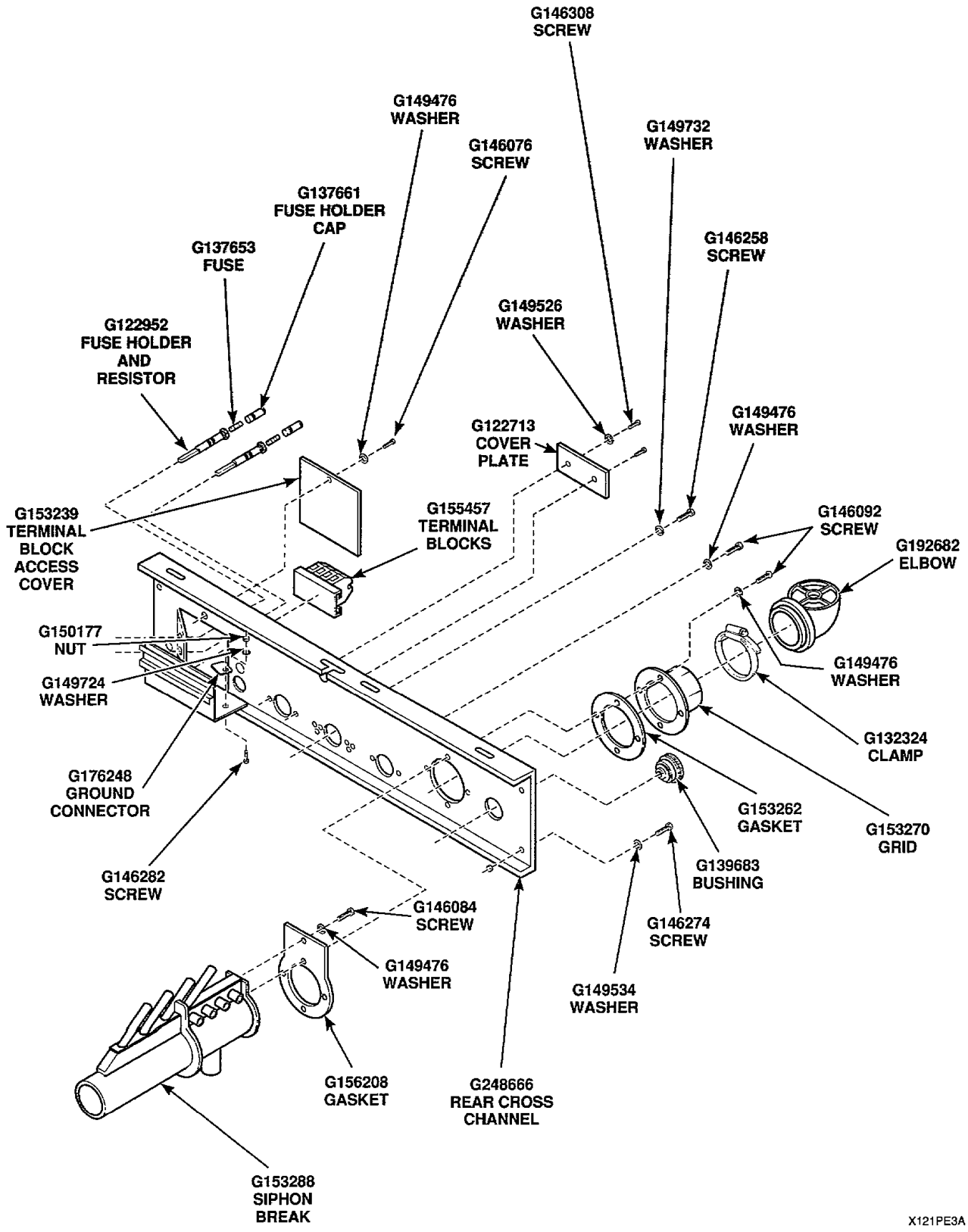
DRAIN VALVE ASSEMBLY

G143560

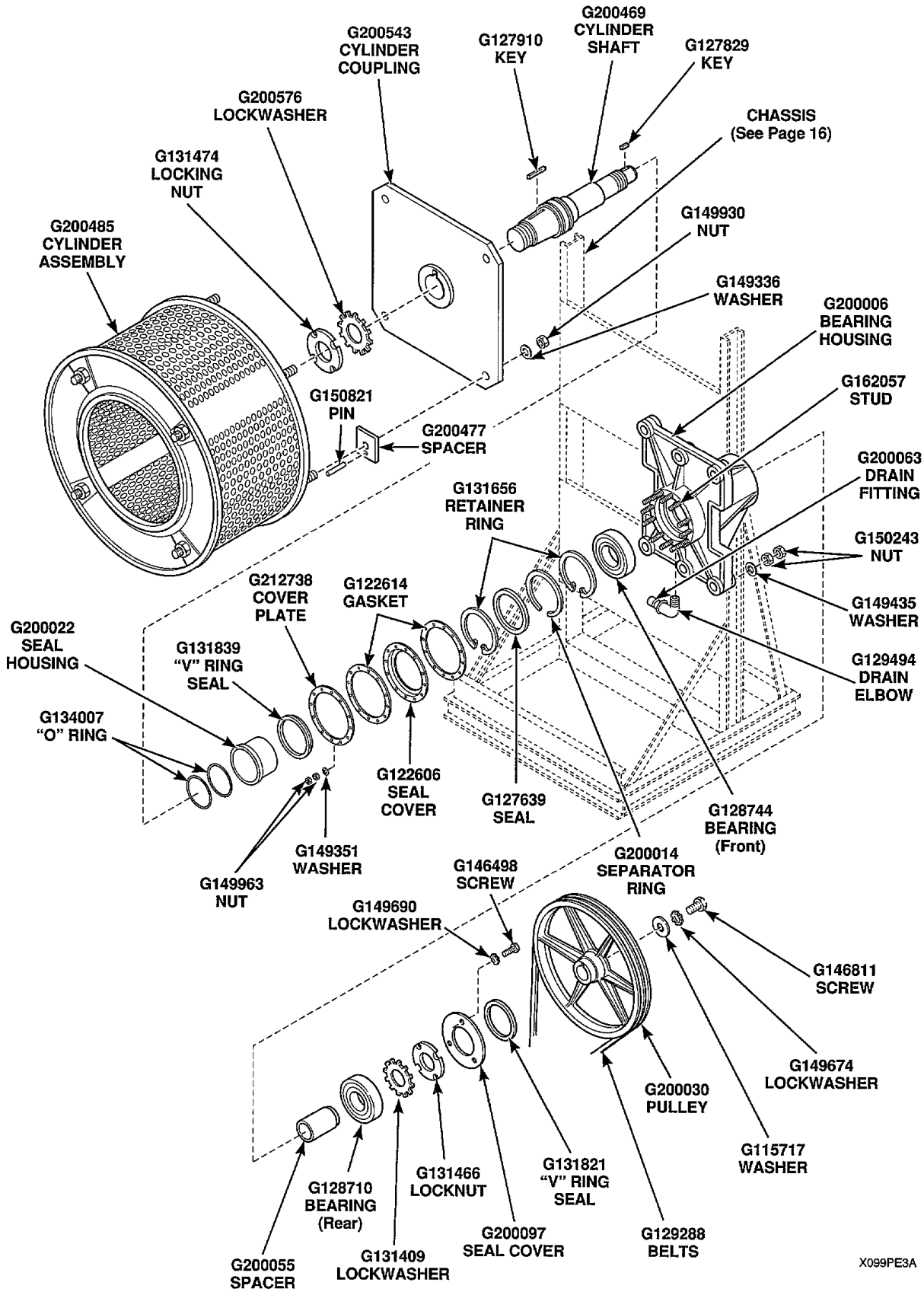


DOOR BRACKET ASSEMBLY

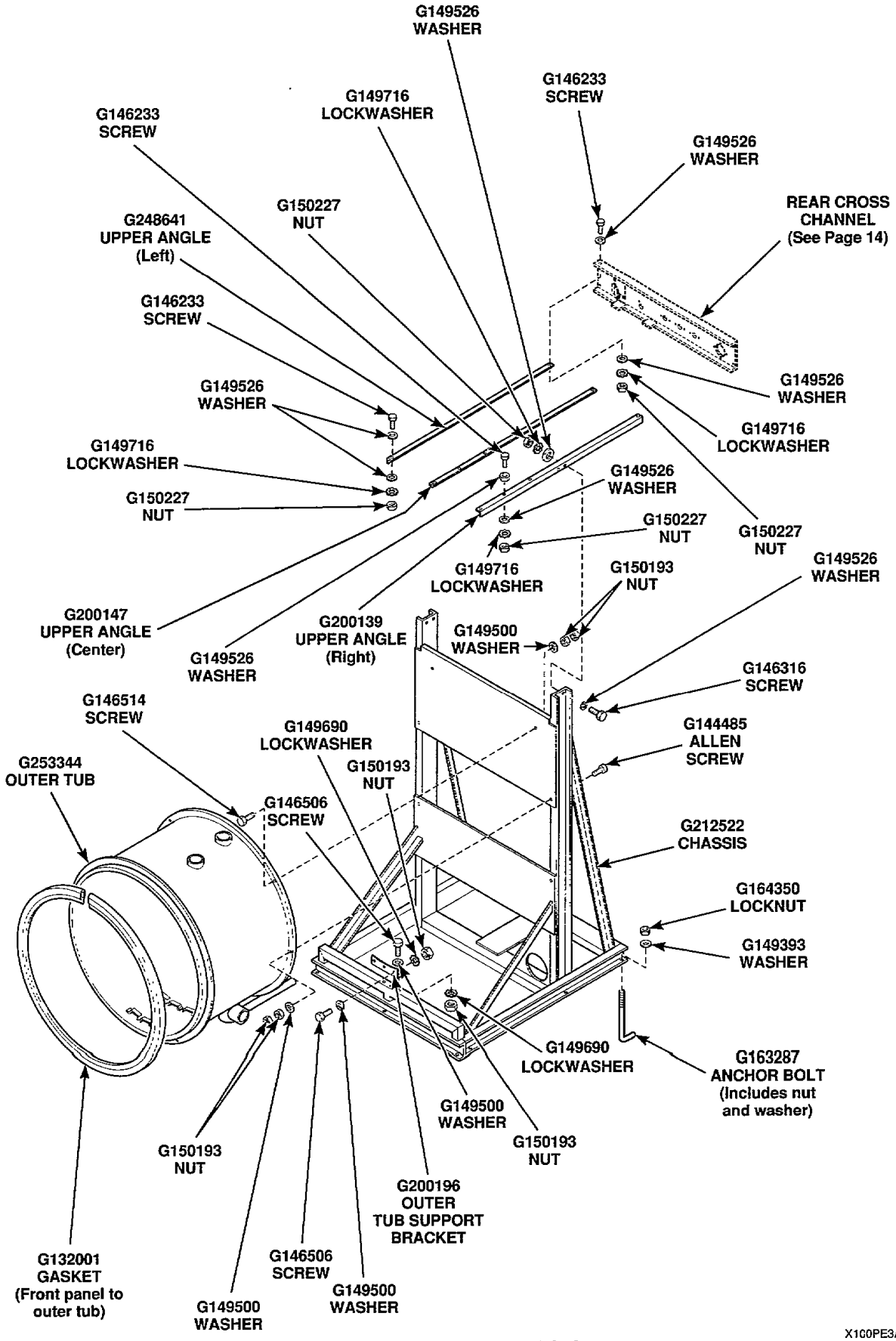


REAR CROSS CHANNEL ASSEMBLY

G143560



CYLINDER, SHAFT, BEARING HOUSING, PULLEY AND BELTS



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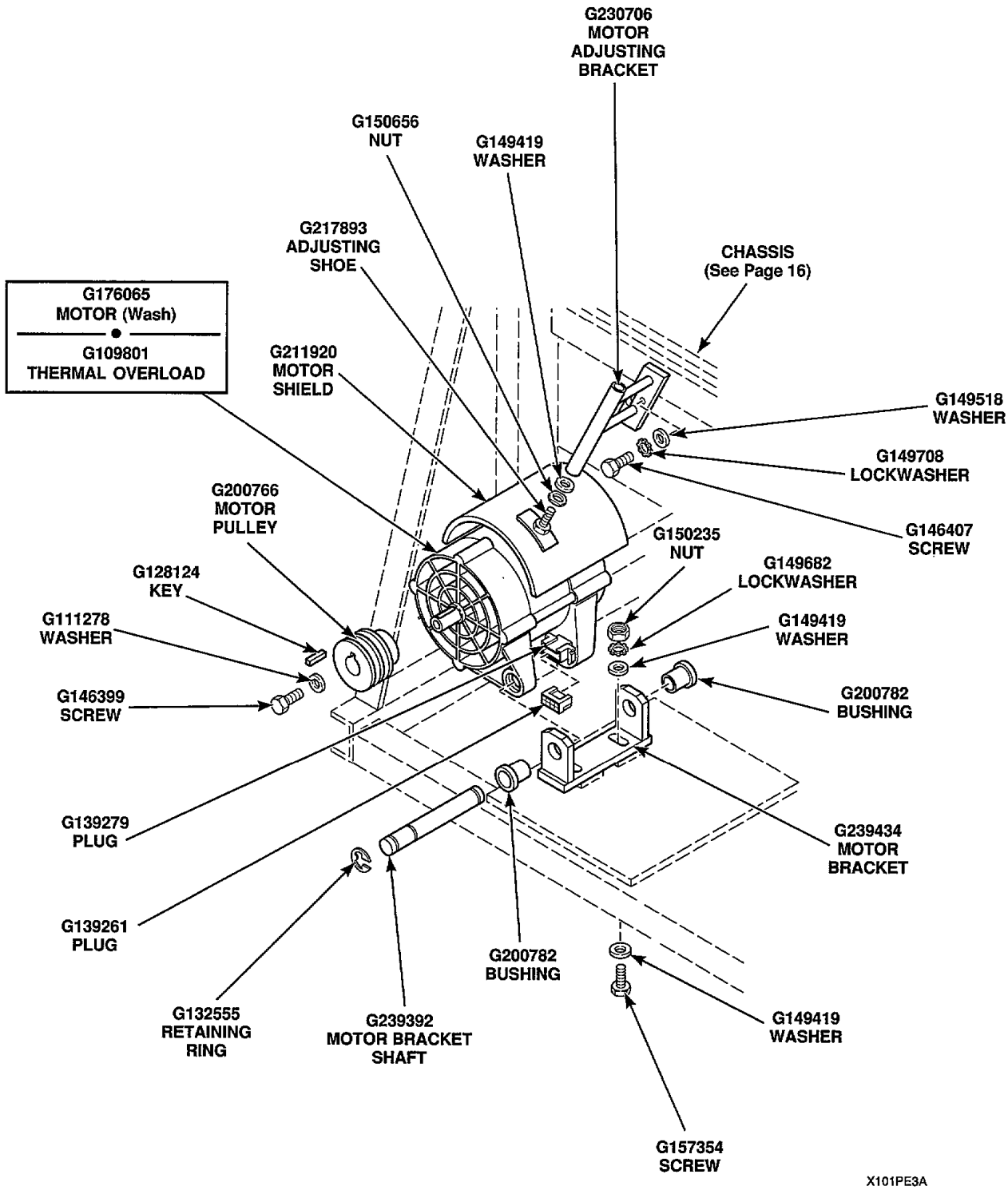
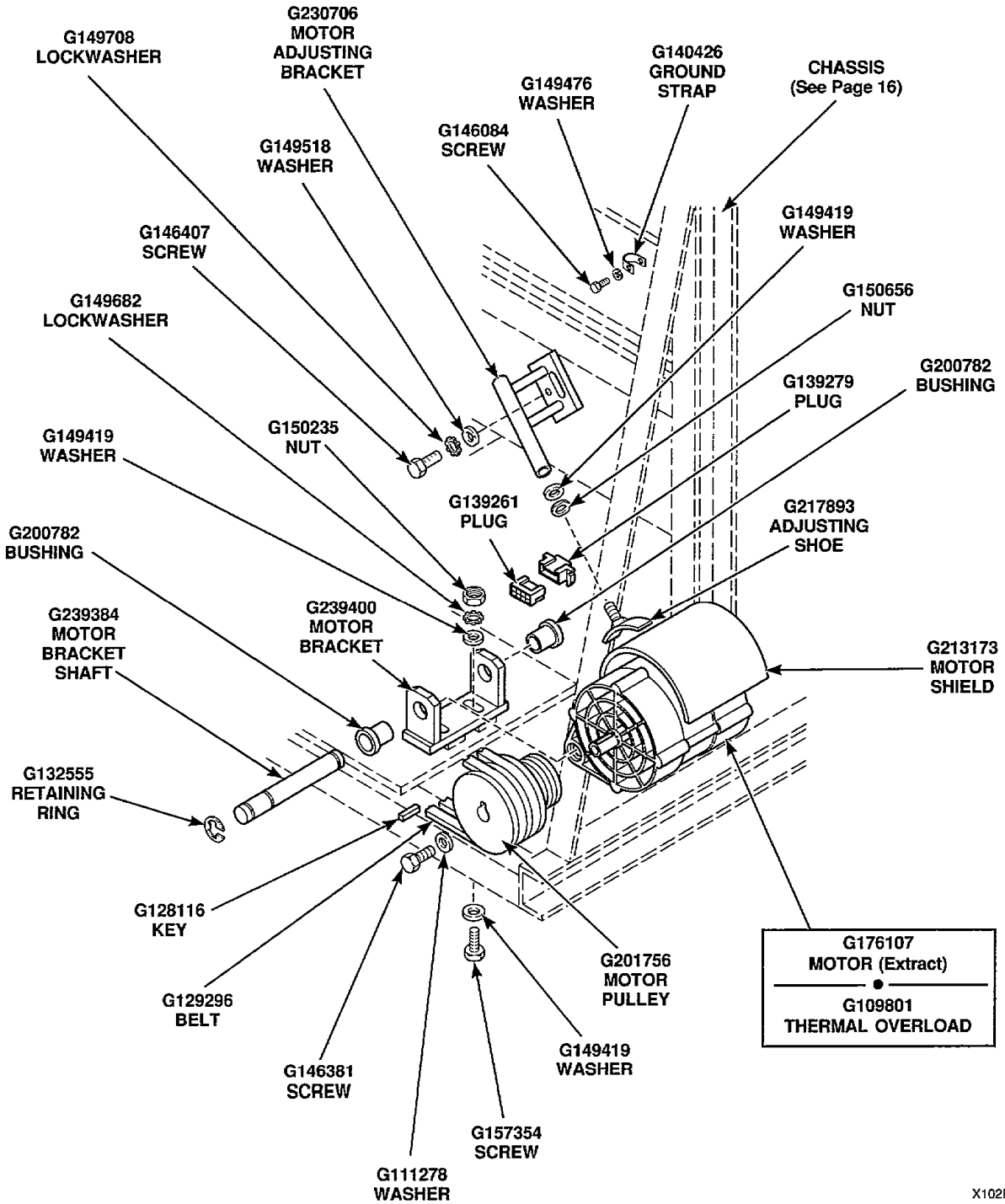
OUTER TUB AND CHASSIS

G143560

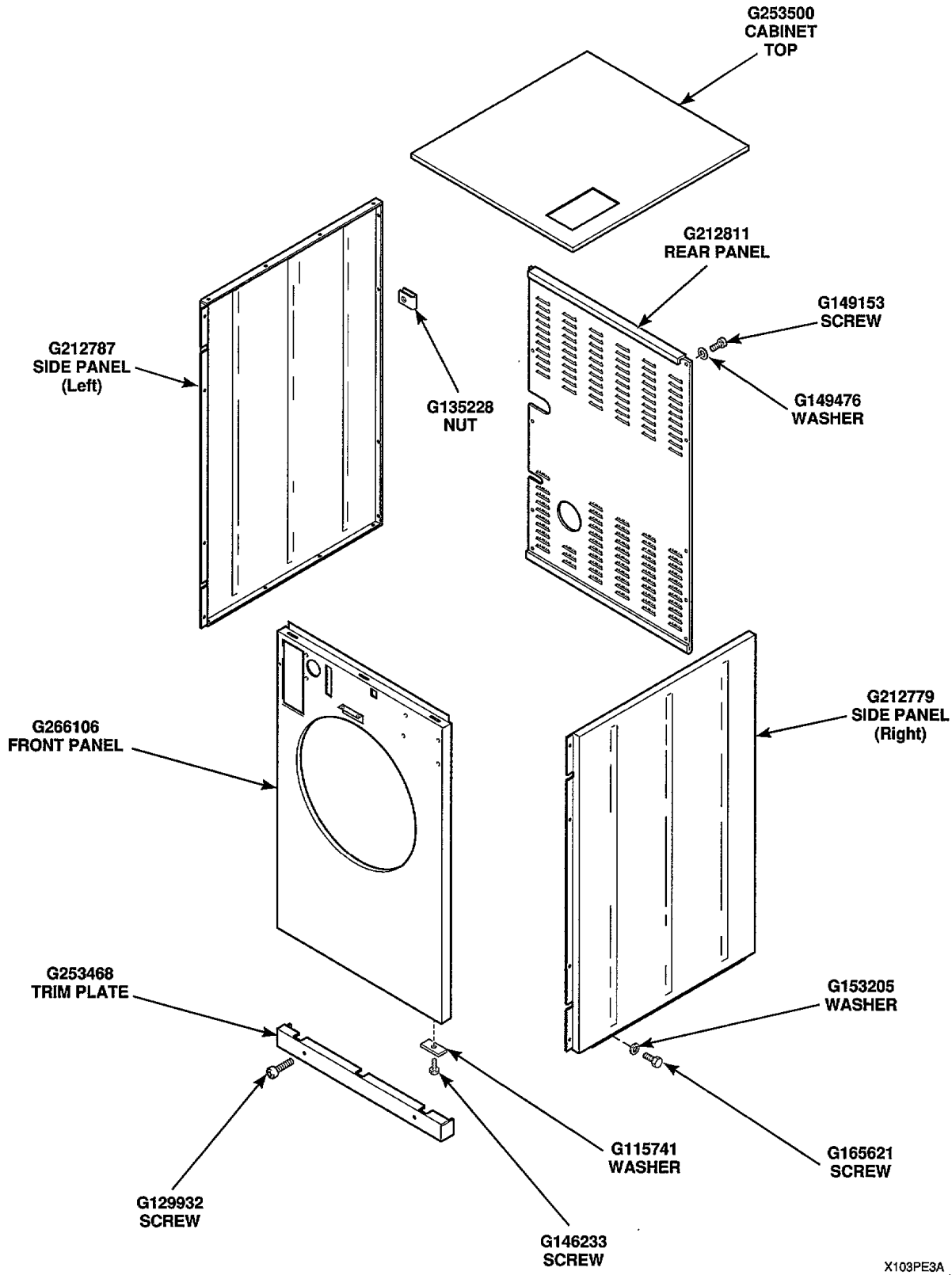

G230706
MOTOR
ADJUSTING
BRACKET
G150656
NUT
G149419
WASHER
G217893
ADJUSTING
SHOE
CHASSIS
(See Page 16)
G176065
MOTOR (Wash)
G109801
THERMAL OVERLOAD
G211920
MOTOR
SHIELD
G149518
WASHER
G149708
LOCKWASHER
G146407
SCREW
G200766
MOTOR
PULLEY
G150235
NUT
G149682
LOCKWASHER
G128124
KEY
G111278
WASHER
G149419
WASHER
G146399
SCREW
G200782
BUSHING
G139279
PLUG
G239434
MOTOR
BRACKET
G139261
PLUG
G200782
BUSHING
G132555
RETAINING
RING
G239392
MOTOR BRACKET
SHAFT
G149419
WASHER
G157354
SCREW
X101PE3A

WASH MOTOR

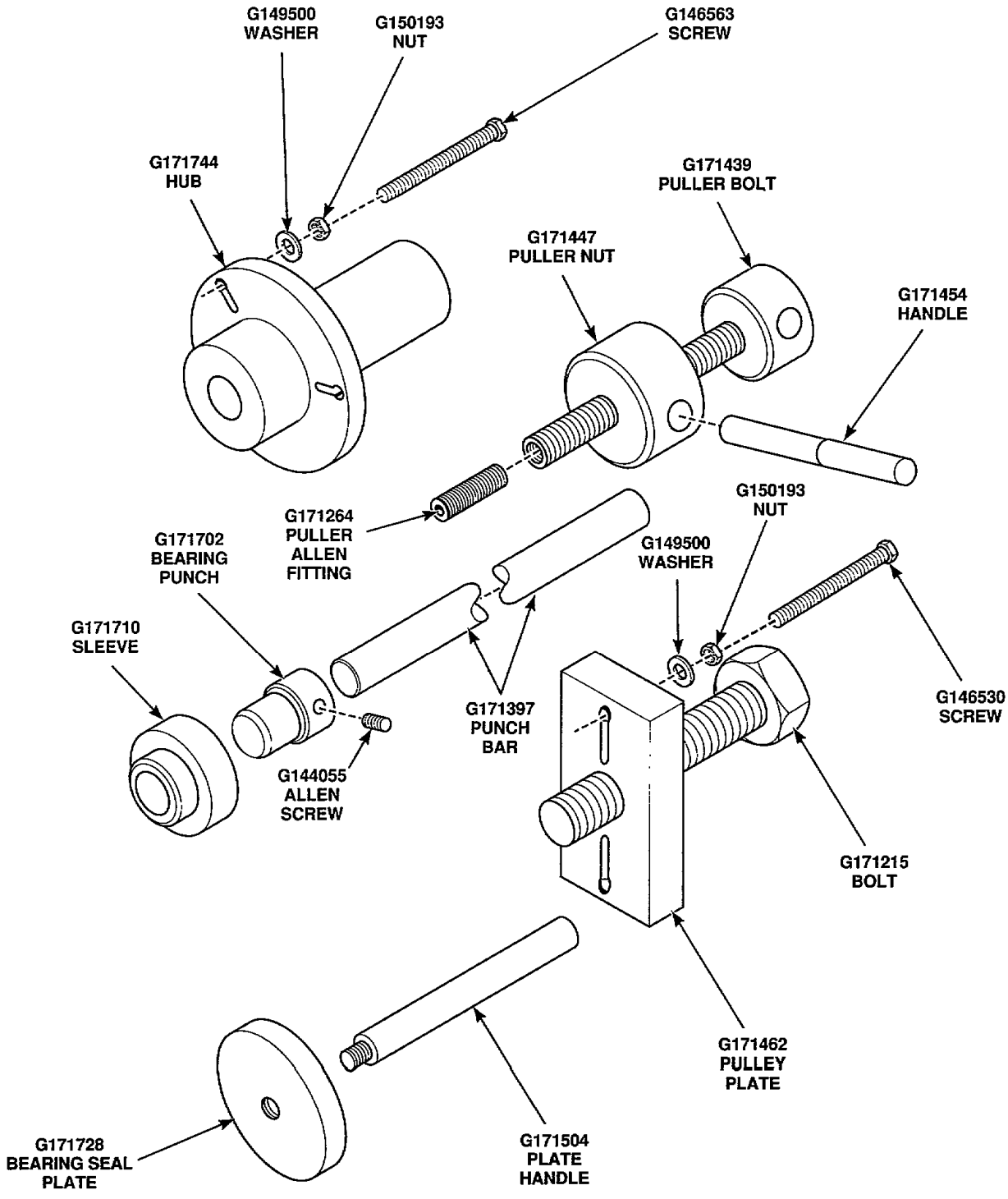


EXTRACT MOTOR AND BELTS

G143560



CABINET TOP, SIDE, FRONT AND REAR PANEL



SPECIAL TOOLS

G143560

SECTION II
Service Procedures

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

To aid in servicing of the washer-extractor, refer to the parts section for assembly sequence.

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

IMPORTANT: Metric tools are required for servicing the washer.

1. CABINET TOP

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold-down tabs on top flange of front panel.
c. Lift cabinet top off washer.

2. COIN DROP ASSEMBLY

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs to top flange of front panel.
c. Lift cabinet top off washer.
d. Loosen allen screw (located on backside of coin drop front plate) holding coin drop to front of washer.
e. Remove coin drop assembly out through opening in front panel as far as wires permit.
f. Disconnect wires from coin drop assembly.

NOTE: Before removing wires from coin drop assembly, mark terminal connections and wire numbers so wires can be reinstalled correctly. If you have a problem in rewiring the coin drop assembly, refer to wiring diagram located on underside of cabinet top.

3. CONTROL PANEL

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up back portion of cabinet top, slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Remove six nuts and washers holding control panel to washer front panel.
e. Pull control panel forward exposing door open light and run light.
f. Using a snap ring pliers, remove snap ring holding run light to control panel.
g. Disconnect wires from door open light, then bend tabs on the four corners of light and push light out through front of control panel.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.** W003

4. PROGRAM TIMER ASSEMBLY

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on the back portion of cabinet top and slide it forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Loosen two screws holding program timer bracket to rear of display window.
e. Rotate timer to disengage slots in bracket from screws.

IMPORTANT: Mark all wire numbers and corresponding terminals on a separate piece of paper before disconnecting any wiring. If you have a problem in rewiring the timer, refer to wiring diagram located on underside of cabinet top.

TIMER DIAL REMOVAL

Remove setscrew holding timer dial to timer shaft and remove timer dial.

TIMER MOUNTING PLATE REMOVAL

Remove two screws holding timer mounting plate to front of timer.

5. CYCLE SWITCH

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Remove two screws holding cycle switch assembly to U-bracket mounted to backside of front panel.
e. Loosen bottom screws holding cycle switch assembly to lower bracket. Do not remove bottom screws. We recommend that before sliding switch assembly up, bend it slightly to the rear so that buttons clear front panel and the assembly can be pulled up and out of washer.

IMPORTANT: When replacing switch assembly, do a wire-for-wire exchange, or write down all wire terminal connections before removing any wires. If you have a wiring problem, refer to wiring diagram on underside of cabinet top.

NOTE: When reinstalling switch, be sure that screw head and washer are behind bottom of switch plate assembly. The switch must be aligned through panel before putting screw back in and tightened.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

6. PRESSURE SWITCHES

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Remove screw and washer holding pressure switch to rear tab on control tray.
e. Disconnect pressure hose from pressure switch.

IMPORTANT: Before disconnecting wires from pressure switch, write down switch terminal connections and wire numbers so switch can be rewired correctly.

f. Tape pressure hose to top side of outer tub to prevent hose from falling to washer base.

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

7. CONTACTORS (Wash or Spin)

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Use a small flat blade screwdriver and move side tab out (located on left side of contactor) and carefully remove contactor off rail.
e. Disconnect wires from contactor.

IMPORTANT: Before removing wires from contactor, mark terminal connections and wire numbers so wires can be reinstalled correctly.

8. INLET VALVE (Two or Four Track)

NOTE: Turn off water supply to washer.

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on the rear portion of cabinet top, slide top forward to disengage cabinet top from hold down tabs located on top flange of front panel.
c. Lift cabinet top off washer.
d. Remove water inlet hose from brass adapter at the rear of washer.
e. Remove brass adapter from water inlet valve.

IMPORTANT: Before removing wires from solenoids, mark terminal connections and wire number so wires can be reinstalled correctly.

f. Mark internal hoses so they can be reinstalled on correct valve outlet.
g. Loosen hose clamps and remove hoses from valve.
h. Depending on the valve being serviced, remove the nut or screws holding inlet valve to rear cross channel and remove valve from inside of washer.

SOLENOID REMOVAL

Firmly grasp solenoid and pull solenoid straight up and off inlet valve.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

9. INLET VALVE (One Track)

NOTE: Turn off water supply to washer.

a. Remove two screws holding cabinet top rear corner tabs to cross channel of washer.
b. Lift rear portion of cabinet top, slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Disconnect wires from solenoid.
e. Loosen hose clamp and remove hose from valve.
f. Unscrew the valve from the "T" fitting.

SOLENOID REMOVAL

a. Remove screw holding solenoid and mounting bracket to inlet valve body.
b. Lift solenoid and bracket off armature guide, then remove solenoid from bracket.

DIAPHRAGM REMOVAL

a. Remove four screws holding solenoid and mounting plate to inlet valve body.
b. Lift solenoids and mounting plate off valve body.
c. Remove armature and guide from valve body, then remove diaphragm from valve body.

10. DISPENSER

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top, slide top forward to disengage cabinet top from hold down tabs located on top flange of front panel.
c. Lift cabinet top off washer.
d. Loosen clamps holding hoses to dispenser and remove dispenser.

NOTE: Mark all hoses and their appropriate connection so they can be reinstalled correctly. When reinstalling hoses to dispenser, DO NOT overtighten hose clamps. If you do, water will shoot out of dispenser lid.

11. TIMING DEVICES

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Remove timing device by pulling straight up and out of socket.
e. Remove timing unit from relay base in the same manner.

NOTE: When installing timing device, make sure tab, located on center spindle, lines up with notch in base.

⚠ WARNING

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- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

12. RUN LIGHT

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Disconnect wires from run light.
e. Using a snap ring pliers, remove snap ring holding run light to control panel.

13. SIPHON BREAK

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.

NOTE: Label all hoses and their appropriate nipple on siphon break before removing hoses.

d. Loosen hose clamps and carefully remove all hoses from siphon break.

IMPORTANT: Use a hair dryer or similar heating device to heat ends of hoses where they attach to siphon break. This will help loosen hoses and prevent nipples on siphon break from breaking off when hoses are removed.

Pull hoses straight off nipples. If you do not, nipples may break off siphon break.

e. Remove four screws attaching grid and gasket to rear channel and remove grid and gasket.
f. Remove screw and washer holding siphon break to rear cross channel and remove siphon break and gasket from rear channel.

14. RELAY

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Remove relay by pulling straight up and out of socket.

NOTE: When installing relay, make sure tab, located on center spindle of relay, lines up with notch in relay base.

15. LOADING DOOR

a. Use special door open tool (supplied with washer) and unlock door by pushing pin on tool up through hole in bottom side of door bracket, and at the same time, move door handle down to unlock door.
b. Unscrew the two round plugs from front of door bracket using special plug key (supplied with washer).
c. Loosen locknut on each setscrew (located inside holes in door bracket) and remove setscrews.
d. Remove large nut holding loading door to the door bracket. Remove complete door assembly from large bolt on door bracket.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

16. DOOR LOCK COIL AND BRACKET

a. Use special door open tool (supplied with washer) and unlock door by pushing pin on tool up through hole in bottom side of door bracket, and at same time, move door handle down to unlock door.
b. Unscrew the two round plugs from front of door bracket using special plug key (supplied with washer).
c. Loosen locknut on each setscrew (located inside holes in door bracket) and remove setscrews.
d. Remove large nut holding loading door to door bracket. Remove complete door assembly from large bolt on door bracket.
e. Remove six screws holding safety lock coil and mounting bracket to door bracket.
f. Disconnect wires from door mechanism.

IMPORTANT: Before disconnecting wires from door mechanism, write down terminal connections and wire number so door mechanism can be rewired correctly.

17. DOOR SAFETY SWITCH

a. Use special door open tool (supplied with washer) and unlock door by pushing pin on tool up through the hole in the bottom of door bracket, and at same time, move door handle down to unlock door.
b. Remove two small nuts holding door safety switch and plate to door bracket.
c. Pull switch and plate out of door bracket far enough to permit disconnecting wires from switch terminals.

IMPORTANT: Before disconnecting wires from switch terminals, write down switch terminal connections and wire numbers so switch can be rewired correctly.

d. Remove nut holding door safety switch to switch plate.

18. DOOR GASKET

a. Peel old door gasket from door assembly.

NOTE: Clean and dry door.

DOOR GASKET INSTALLATION

b. Turn the new door gasket one quarter turn so wide part of gasket is facing you.
c. Carefully tuck new door gasket into door frame channel.

IMPORTANT: When installing door gasket, seam MUST be positioned at twelve o'clock. If it is not in this position, gasket will leak.

⚠ WARNING

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

W003

19. OUTER TUB FRONT PANEL

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Disconnect four wires from door lock assembly to terminal block. Wire connection from right to left is "L1" first position, "207" second position, "205" third position and "54" fourth position.
e. Disconnect ground wire from control panel plate.
f. Remove two screws holding nameplate housing to front of washer and remove nameplate housing.
g. With nameplate housing removed, mark outer tub front panel at a position on front panel to assist with reinstallation of outer tub front panel.
h. Pull door lock wires out through opening in front panel.
i. Remove bolt, washers and nut holding clamp ring to front of washer and remove clamp ring.
j. While supporting outer tub front panel and door assembly, carefully remove gasket.
k. Carefully remove outer tub front panel and door assembly from washer.

IMPORTANT: When reinstalling outer tub front panel and loading door, line up two panels where they were marked during disassembly, see step "g", or use a tape measure to measure distance from top of door arm to top of control panel. With door arm horizontal to control panel, distance should be 25¾ inches from top of each end of door arm to top of control panel.

IMPORTANT: We recommend the reinstallation of the outer tub front panel be done by two people.

a. Position and support outer tub front panel (with door attached) to front of outer tub.
b. Use spacers approximately same thickness as the center rib of clamp ring gasket. Place spacers at 4 o'clock and 8 o'clock positions between outer tub lip and outer tub front panel.
c. Clamp into position using clamping pliers.
d. Starting at the 12 o'clock position, install clamp ring gasket.

NOTE: The gasket has two grooves, one groove goes over outer tub lip and the other goes over outer tub front panel lip.

e. After installing approximately six inches of gasket, clamp gasket, outer tub and outer tub front panel with a clamping pliers at the starting point.
f. Continue to install gasket until you are at the clamping pliers and spacer near the 4 o'clock position. Once again clamp gasket, outer tub and outer tub front panel with a clamping pliers before removing clamping pliers and spacer at the 4 o'clock position. Proceed in this manner until gasket is completely installed.
g. While one person holds outer tub front panel in position, the second person can remove clamping pliers and install clamp ring.
h. With gasket in place, start at top and place clamp ring around clamp ring gasket.

NOTE: The tabs on clamp ring should be one quarter of the way into bracket on front panel. Do not tighten clamp ring at this time.

i. With door assembly lined up correctly (25¾ inch measurement), begin tapping clamp ring with a rubber or vinyl mallet all the way around to pull two sides of clamp together.
j. Begin tightening clamp ring using bolt, washers and nut. Continue to tap around outer edge of clamp ring as bolt is being tightened to ensure a water tight seal.
k. Route four wires and ground wire from door switch mechanism through hole in front panel and up into control tray.

NOTE: Make sure insulating tube is in hole in front panel to protect wires.

l. Reconnect wires to terminal block and ground.

NOTE: Wire connection from right to left is "L1" first position, "207" second position, "205" third position and "54" fourth position.

m. Attach nameplate housing to washer with two screws.
n. Place cabinet top onto washer. Reinstall screws into each of the rear corner tabs.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

20. FRONT PANEL

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Using a snap ring pliers, remove snap ring holding run light to control panel.
e. Disconnect wires to door open light, then bend tabs on four corners of light and push light out through front of control panel.

NOTE: Before removing wires from the door open light and run light, mark the terminal connections and the wire numbers so the wires can be reinstalled correctly.

f. Loosen allen screw (located on backside of coin drop front plate) holding coin drop to front of washer.
g. Remove coin drop assembly out through opening in front panel as far as wires permit.
h. Disconnect wires from coin drop assembly.

NOTE: Before removing wires from coin drop assembly, mark terminal connections and wire numbers so wires can be reinstalled correctly. If you have a problem in rewiring the coin drop assembly, refer to wiring diagram located on underside of cabinet top.

i. Remove screws and lockwashers holding coin drop frame to meter housing.
j. Remove outer tub front panel, paragraph 19, steps "d" through "k".
k. Remove front panel gasket.
l. Remove screws, lockwashers and nuts holding top and bottom edges of front panel to chassis and remove front panel.

21. REAR PANEL

a. Remove screws holding rear panel to cabinet and remove rear panel.

⚠ WARNING

To reduce the risk of serious injury or death, the rear panel MUST be installed before operating washer. The rear panel keeps dust and dirt from accumulating on motor and adds rigidity to structure of washer, and provides safety protection.

22. BELTS

a. Remove screws holding rear panel to cabinet and remove rear panel.

⚠ WARNING

To reduce the risk of serious injury or death, the rear panel MUST be installed before operating washer. The rear panel keeps dust and dirt from accumulating on motor and adds rigidity to structure of washer, and provides safety protection.

b. Loosen the nut on motor adjusting shoe then use a piece of two-by-four or something similar for leverage to lift motor while running belts off pulley. Once belts have been removed from pulley, lower motor gradually. **DO NOT** let it drop or you could damage the motor.

NOTE: If replacing extract belts, wash belts must be removed first.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

23. CYLINDER PULLEY ASSEMBLY

a. Remove screws holding rear panel to cabinet and remove rear panel.

⚠ WARNING

To reduce the risk of serious injury or death, the rear panel MUST be installed before operating washer. The rear panel keeps dust and dirt from accumulating on motor and adds rigidity to structure of washer, and provides safety protection.

b. Loosen the belt tightners, then use a piece of two-by-four or something similar for leverage to lift motor while running belt off pulley. Once belt has been removed from pulley, lower motor gradually. **DO NOT** let it drop or you could damage the motor.

NOTE: Block cylinder pulley at rear of washer to keep cylinder from rotating while removing pulley bolt and pulley.

c. Using a 22mm socket, remove the bolt, lockwasher and washer holding pulley to cylinder shaft.
d. With No. G171215 Bolt screwed into No. G171462 Pulley Plate, attach pulley plate to tapped holes in pulley hub with two bolts, No. G146530, washers, No. G149500, and nuts No. G150193. The washers, No. G149500, go between nut and pulley plate (see Page 20). Use an 18mm wrench to turn nuts tight against pulley plate.

IMPORTANT: Lubricate the threads on the large bolt to help prevent thread damage while removing pulley.

e. Turn large bolt **clockwise** to remove pulley from shaft.

PULLEY INSTALLATION

a. Insert No. G171264 Puller Allen Fitting into No. G171439 Puller Bolt.

NOTE: Install puller allen fitting into puller bolt with allen hex end extending into puller bolt.

b. Insert pulley key onto shaft and start pulley onto shaft with a hammer.
c. Screw No. G171439 Puller Bolt, with G171264 Puller Allen Fitting, into cylinder shaft.

IMPORTANT: Lubricate the threads on the large bolt to help prevent thread damage while installing pulley.

d. Insert No. G171454 Handle into No. G171447 Puller Nut and turn drive nut **clockwise** to push pulley onto shaft.
e. When pulley is seated firmly on shaft, install large washer, lockwasher and bolt into shaft and tighten firmly.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

24. CYLINDER AND SHAFT REMOVAL

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Disconnect four wires from door lock assembly to terminal block. Wire connection from right to left is "L1" first position, "207" second position, "205" third position and "54" fourth position.
e. Disconnect ground wire from control panel plate.
f. Remove two screws holding nameplate housing to front of washer and remove nameplate housing.
g. With nameplate housing removed, mark outer tub front panel at a position on front panel to assist with reinstallation of outer tub front panel.
h. Pull door lock wires out through opening in front panel.
i. Remove bolt, washers and nut holding clamp ring to front of washer and remove clamp ring.
j. While supporting outer tub front panel and door assembly, carefully remove gasket.
k. Carefully remove outer tub front panel and door assembly from washer.

IMPORTANT: When reinstalling outer tub front panel and loading door, line up two panels where they were marked during disassembly, see step "g", or use a tape measure to measure distance from top of door arm to top of control panel. With door arm horizontal to control panel, distance should be 25¾ inches from top of each end of door arm to top of control panel.

IMPORTANT: We recommend the reinstallation of the outer tub front panel be done by two people.

l. Remove screws holding rear panel to cabinet and remove rear panel.

⚠ WARNING

To reduce the risk of serious injury or death, the rear panel MUST be installed before operating washer. The rear panel keeps dust and dirt from accumulating on motor and adds rigidity to structure of washer, and provides safety protection.

m. Loosen nut on motor adjusting shoe then use a piece of two-by-four or something similar for leverage to lift motor while running belts off pulley. Once belts have been removed from pulley, lower motor gradually. **DO NOT** let it drop or you could damage the motor.

NOTE: Block cylinder at front of washer to keep cylinder from moving while removing pulley and bolt.

n. Using a 22mm socket, remove the large bolt, lockwasher and washer holding pulley to cylinder shaft.
o. With No. G171215 Bolt screwed into No. G171462 Pulley Plate, attach pulley plate to tapped holes in pulley hub with two bolts, No. G146530, washers, No. G149500, and nuts No. G150193. The washers, No. G149500, go between nut and pulley plate (see Page 20). Use an 18mm wrench to turn nuts tight against pulley plate.

IMPORTANT: Lubricate the threads on the large bolt to help prevent thread damage while removing pulley.

p. Turn large bolt **clockwise** to remove pulley from shaft.
q. Remove key, locknut and lockwasher from shaft.
r. Remove three bolts and lockwashers holding seal cover to bearing housing and remove cover. Remove all grease from inside seal cavity.
s. Turn No. G150193 Nuts onto three No. G146563 Screws and attach No. G171744 Hub to bearing housing. Once the bolts are tight, turn No. G150193 Nuts tight against hub (see Page 20).

IMPORTANT: Lubricate the threads on the large bolt to help prevent thread damage while removing cylinder and shaft assembly from washer.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

t. Thread No. G171215 Bolt into housing through hub.

NOTE: Block cylinder at front of washer to keep it from rotating.

NOTE: The cylinder is very heavy. Prepare a support in front of washer that is level with bottom of cylinder on which cylinder can be placed when it is removed from front of washer.

u. Turn G171215 Bolt **clockwise** to push cylinder and shaft out through front of washer. Carefully remove cylinder and shaft assembly from washer.
v. Remove seal housing from shaft.
w. Remove V-seal from outside of seal housing and remove O-rings from shaft.

IMPORTANT: We recommend installing new seal housing, "O" rings, and "V" seal whenever cylinder and shaft assembly are removed. Lubricate inside of "O" rings before installing. Make sure new "O" rings are not cut or damaged and are in their normal (not inside out) position when in place.

x. Install new "O" rings on shaft. See **IMPORTANT** above.
y. Install new seal housing on shaft.
z. Install new "V" ring seal.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

25. BEARING HOUSING

a. Bearing Housing Removal:

1. Remove cylinder and shaft assembly, paragraph 24.
2. Using a 13mm socket, remove 24 nuts and 12 washers holding cover plate to inside of outer tub.

IMPORTANT: Before removing nuts and washers, lay a cloth over drain opening (located inside outer tub) so nuts and washers do not fall into drain.

3. Pry cover plate and gasket off inside of outer tub.
4. Remove 12 nuts and six washers holding bearing housing to back of chassis.
5. Remove pressure hose from pressure bulb and move hose out of way.
6. Remove two bolts holding each motor adjusting bracket to bearing housing and remove brackets.
7. With the help of at least one other person, carefully pull bearing housing off back of chassis.

⚠ WARNING

To reduce the risk of serious injury or death, use care when removing bearing housing from rear of washer as bearing housing is very heavy.

NOTE: The two gaskets which contact bearing housing, seal cover and back of outer tub must be replaced whenever bearing housing is removed. Thoroughly clean front of bearing housing and back of outer tub before installing new gaskets.

b. Bearing Housing Disassembly:

1. Remove retainer ring from front of bearing housing and remove seal and separator ring.
2. Insert No. G171397 Punch Bar into No. G171702 Bearing Punch and tighten the No. G144055 Allen Screw. Insert punch bar with bearing punch through center of front bearing and drive rear bearing out of housing.
3. Reverse housing and place a nut on each of the 12 bearing housing studs to protect the threads.

NOTE: The front bearing is held in place by a retainer ring which must be removed before removing the bearing.

4. Drop No. G171710 Sleeve into bearing housing cavity, making sure it is seated evenly. Drive front bearing out of housing using punch bar and bearing punch.

NOTE: When installing new seals, apply a retaining compound such as Loctite to outside diameter of seal to assure a water tight seal. Lubricate inside diameter of seal with No. 03637P Lubricant.

c. Assembly of Bearing Housing:

NOTE: Apply a retaining compound (such as Loctite) to outside diameter of bearing before installing bearing into bearing housing. Lubricate the bearing with Chemlith 3-A04177-9761 Lubricant.

1. Install front bearing first.
2. Thread No. G171504 Plate Handle into No. G171728 Bearing Seal Plate.
3. Install front bearing flat into bearing housing cavity. Place plate handle with bearing seal plate over bearing and seat bearing in housing by pounding on plate handle with a hammer.
4. Install retainer ring in front of front bearing.
5. Install separator ring, new seal an the second retainer ring into bearing housing.

NOTE: When installing new seal, apply a retaining compound (such as Loctite) to outside diameter of seal to assure a water tight seal. Lubricate inside diameter of seal with No. 03637P Lubricant.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

29. PRESSURE BULB

a. Remove screws holding rear panel to cabinet and remove rear panel.

⚠ WARNING

To reduce the risk of serious injury or death, the rear panel MUST be installed before operating washer. The rear panel keeps dust and dirt from accumulating on motor and adds rigidity to structure of washer, and provides safety protection.

b. Loosen hose clamp and remove pressure bulb from large nipple on back of outer tub.
c. Disconnect pressure hose from pressure bulb by pulling hose connector out top of pressure bulb.

30. DRAIN VALVE

a. Remove screws holding rear panel to cabinet and remove rear panel.

⚠ WARNING

To reduce the risk of serious injury or death, the rear panel MUST be installed before operating washer. The rear panel keeps dust and dirt from accumulating on motor and adds rigidity to structure of washer, and provides safety protection.

b. Loosen hose clamps, then remove drain elbow, overflow hose and drain hose from drain valve.
c. Disconnect wires from drain valve motor terminals.
d. Remove two screws holding drain valve to rear chassis brace and remove drain valve.

31. FUSE HOLDER AND RESISTOR ASSEMBLIES

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on the back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Remove two screws holding terminal block access cover to rear cross channel.
e. Disconnect wire at terminal block and second wire at disconnect.
f. Turn nut off barrel of fuse holder and pull fuse holder out through access opening in rear cross channel.

32. TERMINAL BLOCK

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Disconnect wires from terminal block.

IMPORTANT: Label terminals and appropriate wires before disconnecting so wires can be reinstalled correctly.

e. Remove terminal block by removing screw and washer holding terminal block to inside of rear cross channel.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

26. SIDE PANEL (Right or Left)

a. Remove two screws holding cabinet top rear corner tabs to rear cross channel of washer.
b. Lift up on back portion of cabinet top and slide top forward to disengage cabinet top from hold down tabs on top flange of front panel.
c. Lift cabinet top off washer.
d. Remove screws and washers holding rear panel to cabinet and remove rear panel.
e. Remove screws and washers holding side panel to chassis and remove side panel.

27. OUTER TUB

a. Remove cylinder and shaft assembly, paragraph 24.
b. Loosen clamps and remove all hoses from outer tub.
c. Remove three screws, lockwashers, flat washers and nuts holding bottom front of outer tub to front of chassis.
d. Remove six screws, washers and 12 nuts holding outer tub to chassis.
e. Using a 13mm socket, remove 24 nuts and 12 washers holding cover plate to inside of outer tub.

IMPORTANT: Before removing nuts, lay a cloth over the drain opening so nuts and washers do not fall into the drain.

f. Pry cover plate off inside of outer tub.
g. Carefully remove outer tub from washer chassis.

28. MOTOR (Wash or Extract)

NOTE: Disconnect ground wire before removing motor.

a. Remove screws holding rear panel to cabinet and remove panel.
b. Loosen nut on motor adjusting shoe, then use a piece of two-by-four or something similar to use for leverage to lift motor while running belts off pulley. Once belts have been removed from pulley, lower motor gradually, **DO NOT** let it drop or you could damage motor.

NOTE: If replacing extract belts, wash belts must be removed first.

c. Remove nuts, screws and washers holding motor bracket to base of chassis assembly.
d. Disconnect motor harness plug.
e. If machine is mounted onto a raised platform with clearance underneath, remove entire motor bracket with motor.
f. If machine is mounted directly to slab or existing floor, pin must be driven from motor shaft while bracket remains attached to chassis. Remove clips on each end of motor bracket shaft before driving motor bracket shaft out.

⚠ CAUTION

When installing motor back onto motor bracket shaft, cut a piece of two-by-four just long enough to fit between the tabs on the motor. The two-by-four will support the tabs and prevent them from breaking off when motor bracket shaft is driven back in.

⚠ WARNING

To reduce the risk of serious injury or death, use care when removing motor out rear of washer as motor is very heavy.

g. Remove motor by grasping motor bracket shaft and carefully remove motor out through rear of washer.

IMPORTANT: If motor was removed with motor bracket and shaft attached, we recommend that you take the motor and motor bracket assembly to a machine shop and have the motor bracket shaft pressed out. Have the new motor installed on the motor bracket and the shaft pressed back into the motor and bracket. If this is not done, you could damage the new motor.

SECTION III
Service Helps

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

IMPORTANT: Refer to the Wiring Diagram for aid in testing washer components.

33. NO HOT WATER (Hot water only available in wash)

POSSIBLE CAUSE	TO CORRECT
Water in hot water tank is cold.	Check hot water source.
Hot water supply line is closed.	Check for closed valve, kinked hose, or obstruction in line.
Clogged inlet valve screens.	Remove and clean or replace screens.
CYCLE SWITCH improperly set or inoperative.	Set switch or replace switch if inoperative.
Inoperative timer assembly.	Check timer contacts. Replace timer if contacts are inoperative.
Inoperative low level (wash) pressure switch.	Check pressure switch and replace if inoperative.
Broken, loose or incorrect wiring.	Refer to wiring diagram.

34. NO COLD WATER

POSSIBLE CAUSE	TO CORRECT
Cold water supply line is closed.	Check for closed valve, kinked hose, or obstruction in line.
Clogged inlet valve screen.	Remove and clean or replace screens.
CYCLE SWITCH improperly set or inoperative.	Set switch or replace switch if inoperative.
Inoperative timer assembly.	Check timer contacts. Replace timer if contacts are inoperative.
Inoperative low level (wash) pressure switch.	Check pressure switch and replace if inoperative.
Inoperative high level (rinse) pressure switch.	Check pressure switch and replace if inoperative.
Broken, loose or incorrect wiring.	Refer to wiring diagram.

35. NO WARM WATER

POSSIBLE CAUSE	TO CORRECT
No hot water.	Refer to paragraph 33.
No cold water.	Refer to paragraph 34.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

d. Bearing Housing Installation:

NOTE: The rear bearing is installed after the cylinder and shaft have been pulled through the front bearing and housing.

1. Place first gasket, seal cover and second gasket over studs on bearing housing.
2. Place bearing housing assembly onto back of chassis, making sure drain elbow and fitting come out bottom of assembly.
3. Secure bearing housing to chassis using 12 nuts and six washers and tighten nuts firmly.
4. Place cover plate over the twelve studs inside the outer tub and secure the cover plate with one washer and two nuts on each stud, and tighten nuts firmly.

e. Cylinder and Shaft Installation:

NOTE: Lubricate the seal cover surface or the lip of the "V" ring seal with No. 03637P Lubricant.

1. Insert cylinder and shaft assembly into bearing housing from front of washer through outer tub. Run cylinder and shaft in as straight as possible to prevent damage to seal and seal cover.
2. Mount No. G171744 Hub to bearing housing.
3. Insert No. G171264 Puller Allen Fitting into No. G171439 Puller Bolt.
4. Screw No. G171447 Puller Nut onto No. G171439 Puller Bolt.
5. Screw puller bolt with puller allen fitting attached into shaft until puller bolt contacts cylinder shaft.

NOTE: Block the cylinder at front of washer to prevent the cylinder from rotating while pulling cylinder and shaft into bearing housing.

6. Turn No. G171447 Puller Nut **clockwise** to pull cylinder shaft through bearing housing to properly position cylinder. Turn puller nut until cylinder seal housing is properly seated against front bearing.
7. Loosen puller nut and completely remove puller bolt from puller allen fitting.

NOTE: Allen fitting may stay with puller bolt or cylinder shaft.

f. Rear Bearing Installation:

NOTE: Install rear bearing after bearing housing with front bearing is mounted to chassis and cylinder and shaft assembly is installed.

1. Remove No. G171744 Hub from bearing housing. Lubricate the rear bearing and pack the bearing housing with Chemlith 3-A04177-9761 grease and install spacer. Place rear bearing onto shaft and center bearing over opening in bearing housing.
2. Place No. G171744 Hub back onto bearing housing, over cylinder shaft.
3. Screw No. G171439 Puller Bolt onto puller allen fitting.

NOTE: Allen fitting may stay with puller bolt or cylinder shaft.

4. Using No. G171454 Handle, turn puller nut up tight against hub. Turn puller nut **clockwise** until rear bearing is seated firmly in bearing housing.
5. Remove drive bolt and puller allen fitting from cylinder shaft.
6. Install lockwasher and locknut on cylinder shaft and tighten nut.

IMPORTANT: After locknut has been tightened, bend at least two locking tabs on lockwasher into a notch on nut.

NOTE: Install new V-seal onto cylinder pulley before installing pulley. Lubricate lip of "V" seal with No. 03637P Lubricant.

7. Install seal cover onto back of bearing housing with three screws and lockwashers.
8. Insert No. G171264 Puller Allen Fitting into No. G171439 Puller Bolt approximately one inch.

NOTE: Install puller allen fitting into puller bolt with allen hex end extending into puller bolt.

9. Insert pulley key onto shaft and start pulley onto shaft with a hammer.
10. Screw No. G171439 Puller Bolt with No. G171264 Puller Allen Fitting into cylinder shaft.
11. Insert No. G171454 Handle into No. G171447 Puller Nut and turn nut **clockwise** to push pulley onto shaft.
12. When pulley is seated firmly onto shaft, install large washer, lockwasher and bolt into shaft and tighten firmly.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

36. WASHER DOES NOT START

POSSIBLE CAUSE	TO CORRECT
Electric power disconnected or tripped breaker. One Amp control fuse(s) blown.	Connect electrical power or reset breaker. Check the washer's two one Amp fuses and replace if blown. Fuses are located behind terminal block access cover on rear cross channel.
3.9 Ohm resistor open.	Replace 3.9 Ohm resistor or fuse holder and resistor.
Door lock switch is inoperative or is not closed.	Check door lock assembly and replace if inoperative. Check door latch to ensure proper switch operation.
Door hinge safety switch inoperative or not closed.	Check hinge switch position and adjust if needed. Check switch and replace if inoperative.
Inoperative coin accumulator.	Test coin accumulator and replace if inoperative.
Inoperative timer.	Test timer start circuit. Replace timer if inoperative.
Inoperative timer motor.	Replace timer assembly.
Broken, loose or incorrect wiring.	Refer to wiring diagram.

37. CYLINDER DOES NOT FILL

POSSIBLE CAUSE	TO CORRECT
No hot water.	Refer to paragraph 34.
No cold water.	Refer to paragraph 35.
Inoperative low level (wash) pressure switch.	Check pressure switch and replace if inoperative.
Inoperative high level (rinse) pressure switch.	Check pressure switch and replace if inoperative.
Inoperative timer.	Check timer and replace if inoperative.
Inoperative drain valve.	Check drain valve and replace if inoperative.
Obstruction in drain valve.	Clean drain valve, refer to 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 (wash cycle only).	Check switch and replace if inoperative.
Broken, loose or incorrect wiring.	Refer to wiring diagram.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

38. WATER DOES NOT SHUT OFF

POSSIBLE CAUSE	TO CORRECT
Sediment in inlet valve.	Disassemble and clean sediment from inlet valve or replace complete inlet valve.
Inoperative pressure switch.	Check switch and replace if inoperative.
Incorrect wiring.	Refer to wiring diagram.

39. WATER DOES NOT DRAIN FROM CYLINDER OR DRAINS SLOWLY

POSSIBLE CAUSE	TO CORRECT
Obstruction in drain valve.	Disassemble and clean valve, refer to parts section for assembly sequence of valve.
Obstructed drain.	Remove obstruction.
Inoperative drain valve motor.	Check motor and replace if inoperative.
Inoperative timer assembly.	Check timer and replace if inoperative.
Incorrect wiring.	Refer to wiring diagram.

40. WASHER CYLINDER DOES NOT TUMBLE

POSSIBLE CAUSE	TO CORRECT
No electrical power.	Check control fuses, circuit breaker or any disconnect switches.
Inoperative timer assembly.	Check timer and replace if inoperative.
Door lock assembly improperly adjusted.	Adjust door lock assembly.
Motor overload protector has cycled.	Wait 15 to 30 minutes for overload protector to reset. If protector cycles repeatedly, refer to paragraph 42.
Inoperative drive motor (Wash/Distribution).	Check motor and replace if inoperative.
Inoperative motor contactor.	Replace "C5" or "C4" contactor (depending on direction) or "C3" distribution.
Broken, loose or incorrect wiring.	Refer to wiring diagram.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

41. WASHER CYLINDER DOES NOT SPIN

POSSIBLE CAUSE	TO CORRECT
No electrical power.	Check control fuses, circuit breaker or any disconnect switches.
Washer does not drain.	Disassemble and clean drain valve. Refer to paragraph 39.
Incorrect wiring.	Refer to wiring diagram.
Motor overload protector has cycled.	Wait 15 to 30 minutes for overload protector to reset. If protector cycles repeatedly, refer to paragraph 42.
Inoperative "C6" relay.	Check "C6" relay and relay coil.
Inoperative "C2" contactor.	Check "C2" contactor.
Inoperative spin motor.	Replace motor.
Inoperative pressure switch.	Switch must be in the "normally closed" position. Check pressure hose to see if it is clogged preventing pressure switch from resetting. Check switch and replace if inoperative.
Broken, loose or incorrect wiring.	Refer to wiring diagram.

42. MOTOR OVERLOAD PROTECTOR CYCLES REPEATEDLY

POSSIBLE CAUSE	TO CORRECT
Improper voltage.	See *Installation Instructions* (supplied with washer) for electrical requirements.
Inoperative motor overload protector.	Replace motor or overload protector.
Water does not drain from cylinder.	Refer to paragraph 39.
Inoperative contactor.	Check contactor and replace if inoperative.

43. CYLINDER DOES NOT TURN

POSSIBLE CAUSE	TO CORRECT
Washer cylinder does not tumble.	Refer to paragraph 40.
Washer cylinder does not spin.	Refer to paragraph 41.
Loose or broken belts.	Check belt tension or replace belts.

⚠ WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- **Disconnect electric power to the washer before servicing.**
- **Never start the washer with any guards/panels removed.**
- **Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the washer is properly grounded.**

W003

44. TIMER DOES NOT ADVANCE

POSSIBLE CAUSE	TO CORRECT
Inoperative timer motor.	Replace complete timer assembly.
Inoperative pressure switch.	Check switch and replace if inoperative.
Incorrect wiring.	Refer to wiring diagram.

45. DOOR WILL NOT OPEN

POSSIBLE CAUSE	TO CORRECT
Inoperative timer controls.	Replace timer.
No electrical power to controls (control fuse(s) blown).	Check the washer's two one Amp fuses and replace if blown. Fuses are located behind terminal block access cover on rear cross channel.
Door safety lock not energized.	Check rectifier and solenoid and replace if inoperative.
Inoperative door hinge safety switch, or lock switch.	Check switches and replace if inoperative.
Inoperative "T1" time delay.	Test function and replace if inoperative.
Inoperative "C6" relay.	Test function and replace if inoperative.
Broken, loose or incorrect wiring.	Refer to wiring diagram.

46. DOOR LEAKS

POSSIBLE CAUSE	TO CORRECT
Insufficient pressure on door gasket.	Adjust door.
Damaged gasket.	Replace gasket.

47. EXCESSIVE VIBRATION

POSSIBLE CAUSE	TO CORRECT
Unbalanced load in cylinder.	Instruct the person using the washer about proper loading.
Loosened mounting bolts.	Tighten bolts, or remount if necessary.
Loose cabinet screws.	Tighten screws.