



SIMPSONS
Sears

TECHNICAL FLASH

Department 731A Toronto

T.F.#26-26
July 18, 1985

DIVISION 26

SOURCE C110

DIRECT DRIVE WASHING MACHINE

Due to the number of calls I have received from the field in regards to the Direct Drive Washing Machines that customers are bringing in from the United States, I feel that it is appropriate at this time to issue the following information to the Service Departments.

division 26

direct drive washing machine

DEPARTMENT 731A -LARRY SIDES

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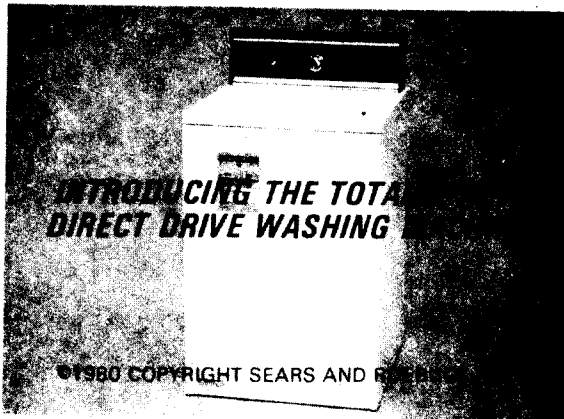
T.F.#26-26

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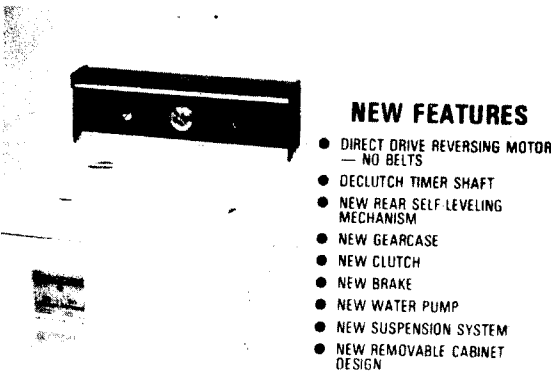
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INTRODUCING THE TOTALLY NEW DIRECT DRIVE WASHING MACHINE



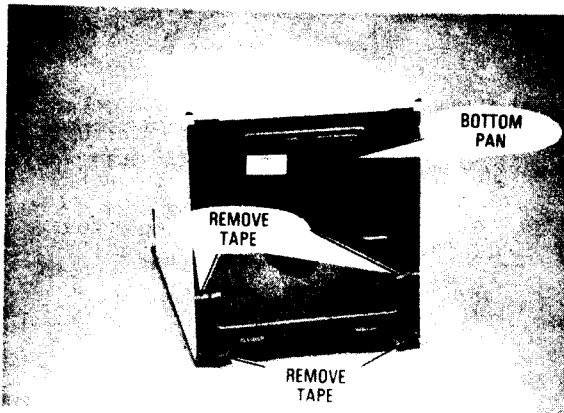
- 1 This new 24-inch clothes washer has a new SUSPENSION SYSTEM, CABINET CONSTRUCTION, GEARCASE and DRIVE SYSTEM.



NEW FEATURES

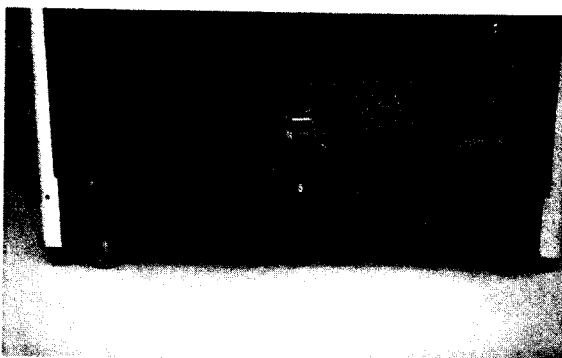
- DIRECT DRIVE REVERSING MOTOR — NO BELTS
- DECLUTCH TIMER SHAFT
- NEW REAR SELF-LEVELING MECHANISM
- NEW GEARCASE
- NEW CLUTCH
- NEW BRAKE
- NEW WATER PUMP
- NEW SUSPENSION SYSTEM
- NEW REMOVABLE CABINET DESIGN

- 2 New features of the machine are ...



- 3 Remove the shipping carton, lay the machine on its back and remove the tape from the cabinet sides and rear leveling legs.

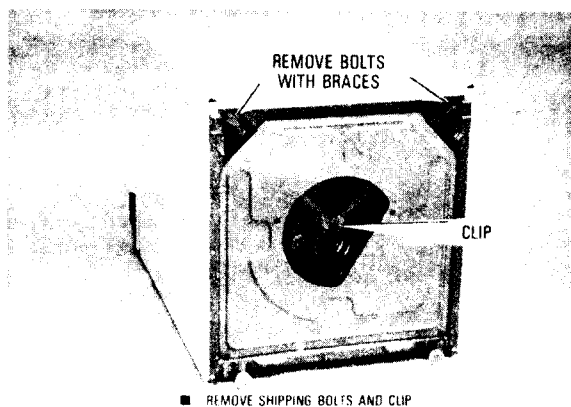
CAUTION: The bottom pan does not have to be removed for installation. If the panel is removed for service, it must be reinstalled.



- 4 The rear self-leveling feet are new in design and factory installed. When the tape is removed the feet move out to their activated position.

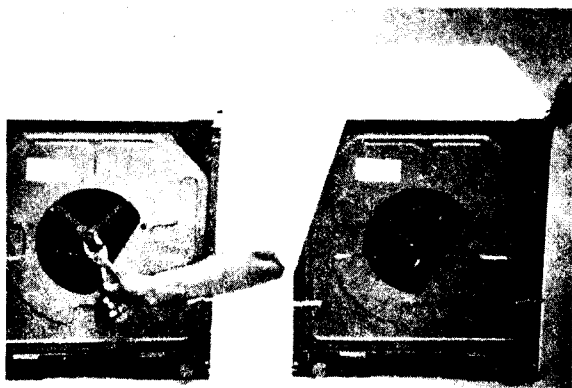
NEW SELF-LEVELING REAR FEET

■ REMOVING TAPE ACTIVATES FEET



■ REMOVE SHIPPING BOLTS AND CLIP

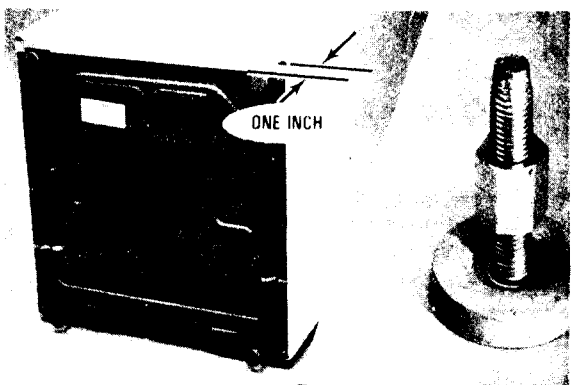
- 5 Next, remove the two bolts that secure the shipping braces to the cabinet at the front corners and the clip that secures both of the braces to the gearcase bottom.



■ REMOVE CLIP AND SLIDE BRACES OUT

- 6 To remove the clip use pliers or a screwdriver to bend or pry it off. With the clip and bolts removed, the braces can be slid out of the machine without removing the bottom panel.

NOTE: The braces and gearcase clip should be saved in case the machine ever has to be moved to a different home.



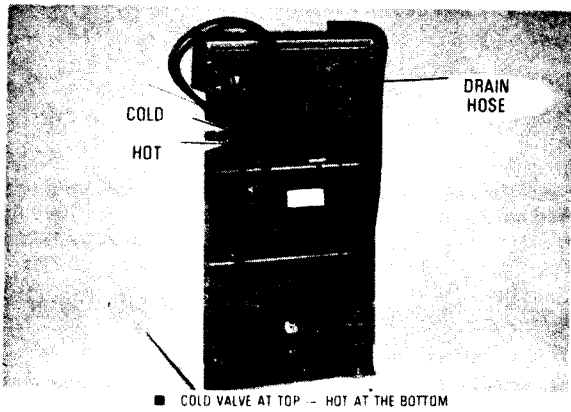
■ INSTALL FRONT FEET
■ FEET SHOULD PROTRUDE ONE INCH

- 7 Install the front feet in the holes where the shipping braces were attached. The feet have lock nuts assembled and should be installed with the foot pad protruding down below the base about one inch. Steel legs are used on this product because of the increased spin speeds.

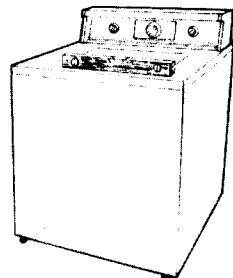


■ REMOVE SHIPPING BLOCKS DRAIN AND FILL HOSES

- 8 Stand the machine upright, and remove the shipping blocks. The styrofoam blocks are designed to fit around the agitator and help support it. After the shipping blocks are removed, remove the drain and fill hoses.



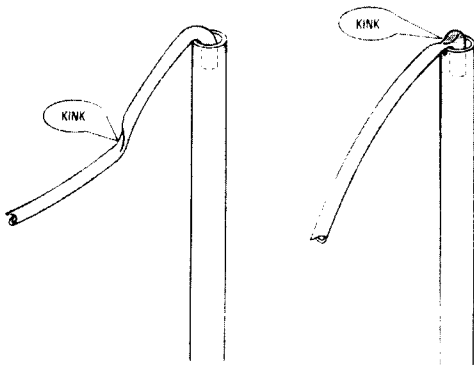
- 9 Install the water inlet hoses and the drain hose. The cold water port is at the top and the hot water port is at the bottom, and are identified with the letters C and H punched in the cabinet. The machine is now ready to be moved to its permanent location, where the water inlet and drain hoses can be hooked up.



LEVELING MACHINE

- TO USE: UNPLUG
■ TO USE: TO FINAL OPERATING POSITION AND LEVEL

- 10 After the inlet hoses and drain are hooked up, move the machine to its final operating position, and check the level of the machine. Because of changes in the suspension system, it is not recommended to use water in the basket to level the machine. A spirit level should be used. The washer can be leveled from side to side and front to rear by adjusting the two front feet.



- 11 **CAUTION:** When installing the drain hose make sure the hose is not too long or too short. Either condition can cause a restriction resulting in low spin speed and too much water left in the clothes.

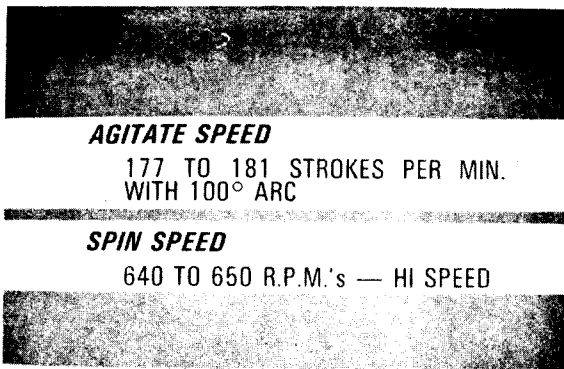
WATER USAGE

HI — 16 GAL. MED. — 12 GAL.
LO — 8½ GAL.

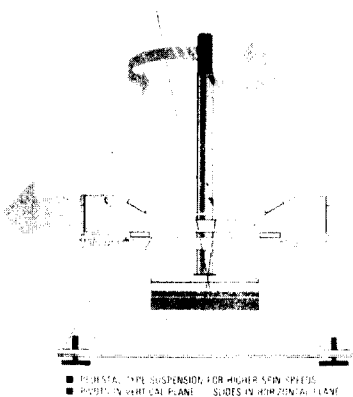
INCHES FROM BASKET BOTTOM

HI — 11¼ TO 12¾ INCHES
MED. — 8¼ TO 9½ INCHES
LO — 5¾ TO 6¾ INCHES

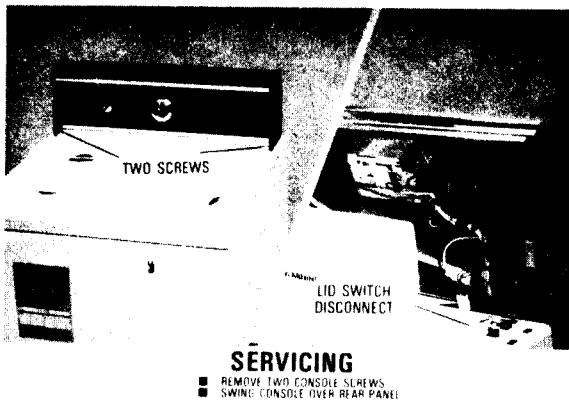
- 12 This chart shows water usage per fill.



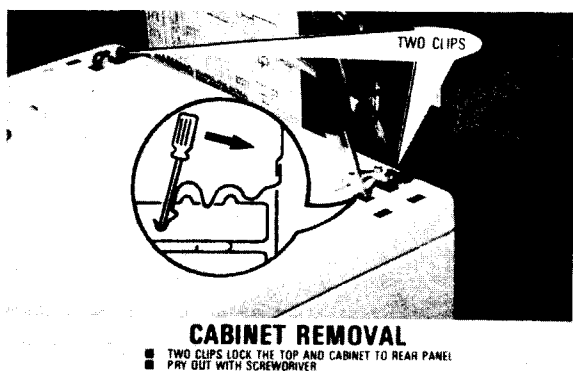
- 13 This chart shows the agitate and spin speeds. *NOTE: When the two-speed machines are produced, the low speed will be 118 to 122 strokes per minute for agitation and 425 to 429 RPMs low spin speed.*



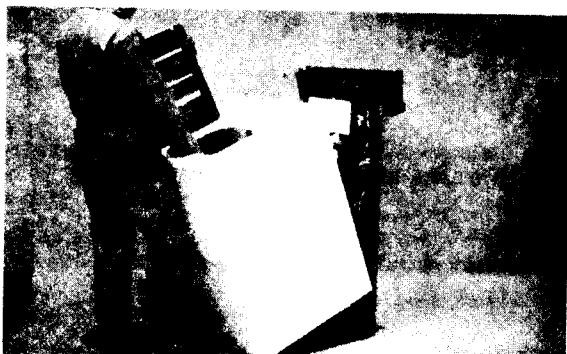
- 14 To allow the high spin speed, the suspension system has been changed to a pedestal type. The suspension allows the unit to pivot in the vertical plane and slide in the horizontal plane. Springs limit its movement in all directions.



- 15 To remove the cabinet for service, remove the two console screws, disconnect the lid switch harness, and swing the console over the top of the rear panel. It is designed with hinges that will support it in this position.

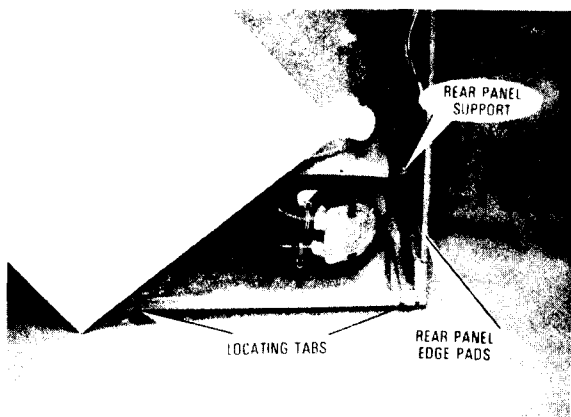


- 16 Next, remove two clips that lock the top and cabinet assembly to the rear panel. To remove the clips, insert a screwdriver into the clips as shown and pry them out in the direction indicated by the arrow.

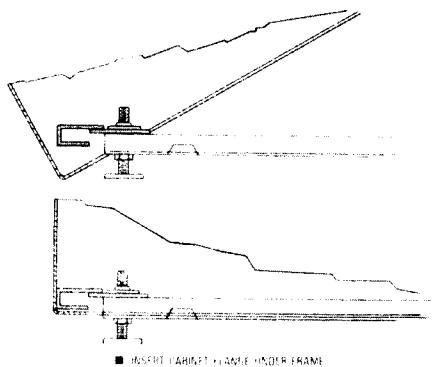


CABINET REMOVAL

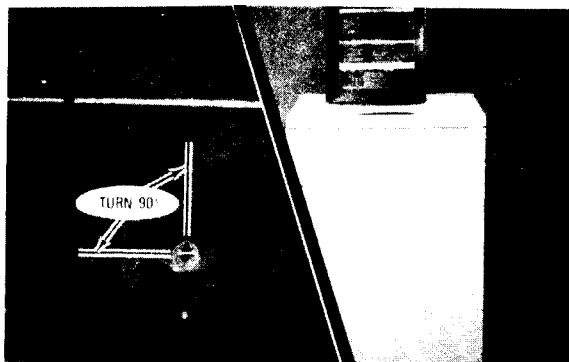
- 17 The complete cabinet assembly can then be tipped forward and removed from the base.



- 18 The base has locating tabs to align the cabinet in place. There are two rear panel pads that help locate the cabinet sides to the rear panel. A support holds the rear panel upright when the cabinet is removed.

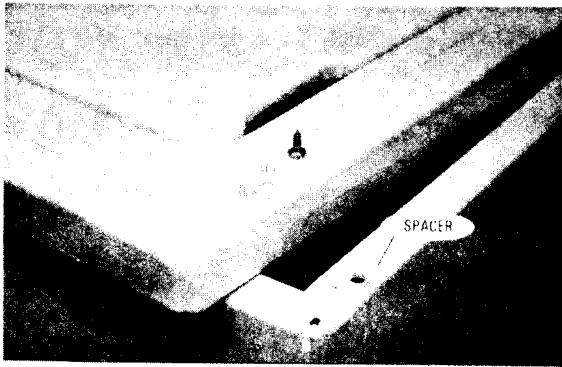


- 19 When reinstalling the cabinet, it's important to tip it forward far enough to slide the cabinet flange under the machine frame. Then position the cabinet in its upright position.



■ RELEASE REAR PANEL FOR MORE ROOM

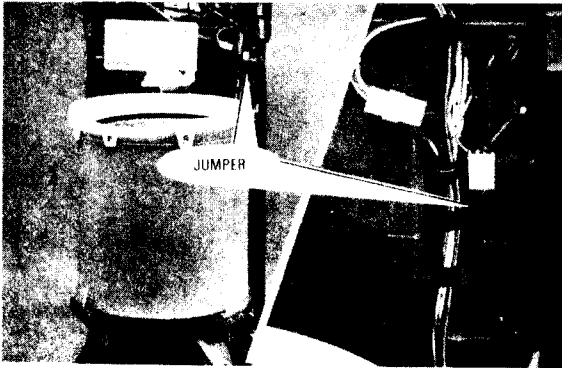
- 20 If more room is needed when repairs are being made, the plastic support can be released by turning it 90°. The rear panel will then tilt back as shown.



■ FOUR SPACERS AND SCREWS POSITION AND HOLD TOP TO CABINET

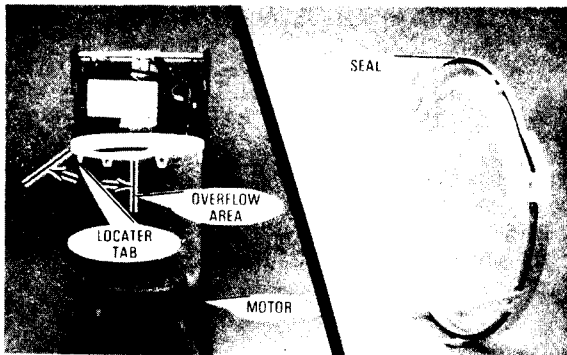
- 21** Four plastic pads are used as spacers between the top and the cabinet. Four screws fasten the top to the cabinet.

CAUTION: On this machine you cannot raise the top without removing the screws.



■ WASHER CAN BE OPERATED WITH CABINET REMOVED

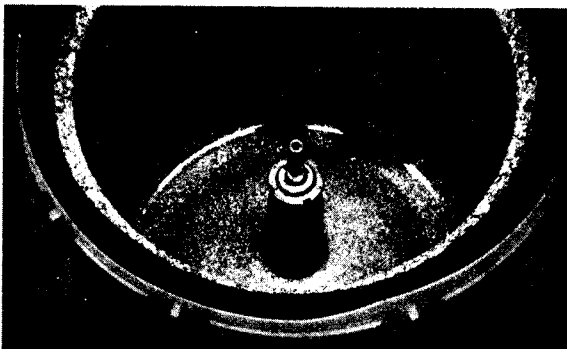
- 22** The machine can be operated with the cabinet removed. Disconnect the plug from the wall outlet. Insert a jumper wire in the lid switch disconnect plug, between the gray and violet wires. The green wire is for grounding the top.



TUB RING REMOVAL

■ TUB RING GOES ON ONLY ONE WAY

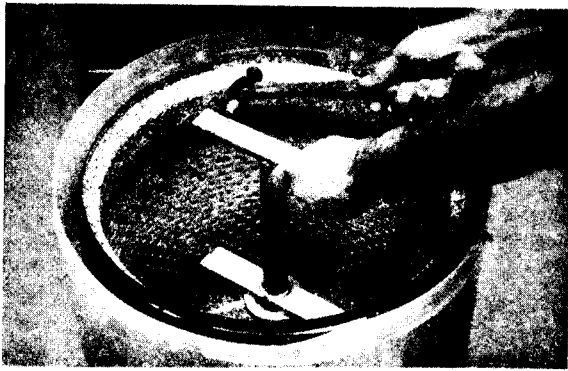
- 23** The tub ring is designed with a recessed rubber gasket. There are tabs which lock over hooks protruding from the tub.



BASKET REMOVAL

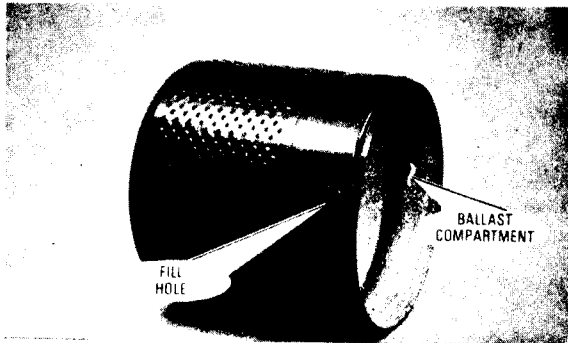
■ LARGE CAPACITY DRIVE BLOCK AND NUT

- 24** The basket is held in place with a spanner nut and drive block. The nut has right-hand threads.



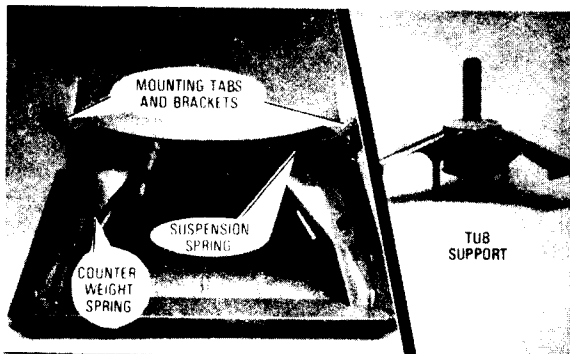
■ USE SPANNER EXTENSION TOOL TO REMOVE NUT

- 25 To reduce the possibility of chipping porcelain in the basket, it's suggested that the spanner extension tool be used when removing the nut.



BASKET

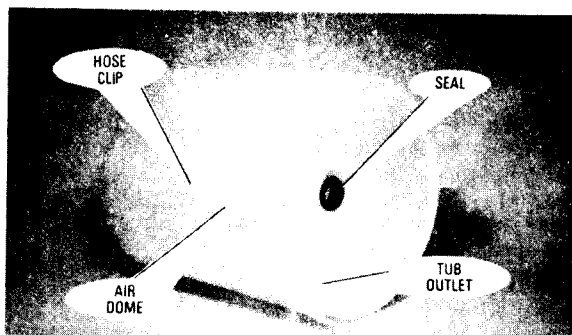
- 26 The basket is designed with a ballast compartment which is nonserviceable. The extra weight of the ballast reduces vibration associated with off-balance loads. If the fill plug becomes loose, the entire basket assembly must be replaced.



TUB REMOVAL

■ REMOVE THREE SPRINGS, THREE MOUNTING BRACKETS AND DRAIN HOSE

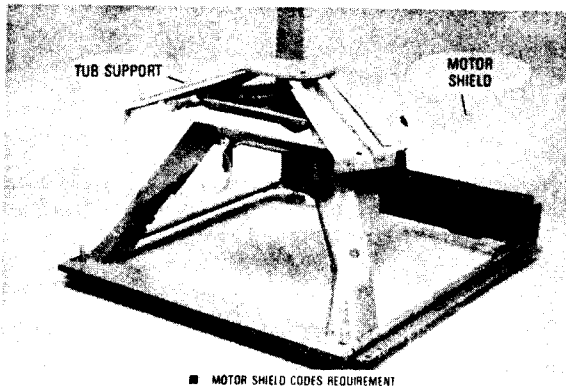
- 27 The tub has three tabs for fastening it to the tub support. To remove the tub, disconnect the springs. Next, remove the three spring brackets. *NOTE: The spring bracket that the counterweight spring attaches to is different and must be reinstalled at the left front.* Remove the tub outlet hose. Apply liquid detergent to the centerpost. The tub can be removed by pulling straight up.



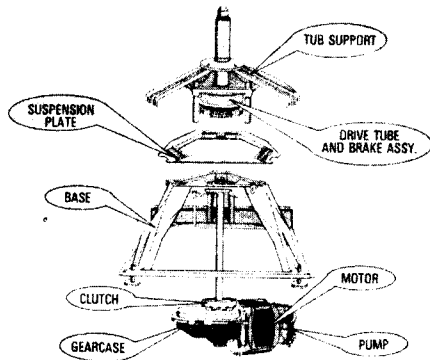
PLASTIC TUB

■ AIR DOME AND HOSE CLIP HEAT SEALED IN PLACE
CENTERPOST SEAL IS NEW

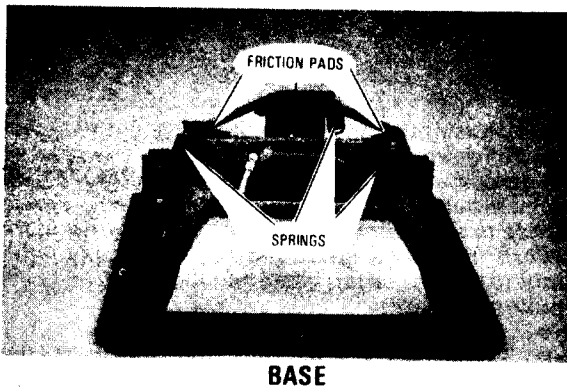
- 28 The plastic tub has the air dome and hose clip heat-sealed in position. The centerpost seal is not interchangeable with previous production.



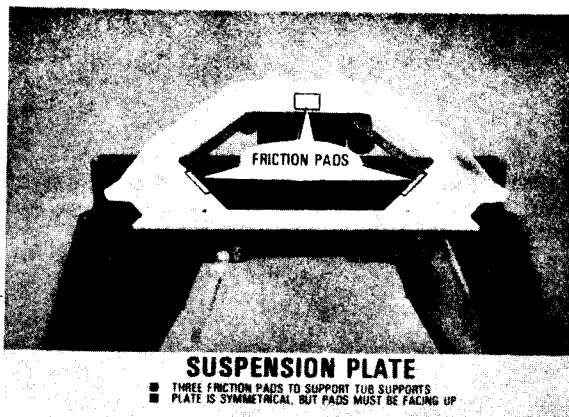
29 A motor shield is held in place between the tub and tub support. The shield protects the motor in case of a water overflow. If this shield is removed for service, it must be replaced.



30 This view shows the relationship of component parts below the tub.



31 Three pads snap into the top of the base. These pads allow horizontal movement of the suspension plate (not shown). The springs limit the movement of the complete suspension assembly.



32 This is a view of the suspension plate in position. It also has three friction pads. The tub support has a mating surface that rests on these pads, allowing it to swivel. The suspension plate is symmetrical and can be located on the base with any one of the three sides forward.

CAUTION: The suspension plate must be reinstalled with the pads facing up.