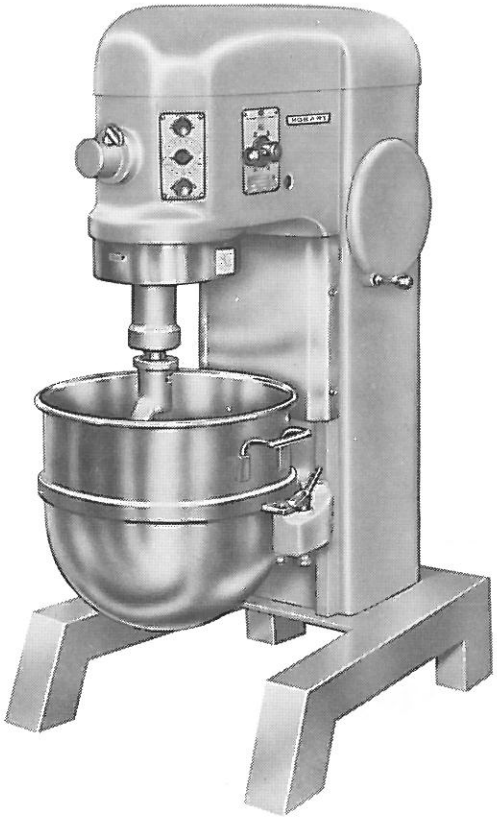
HOBART

INSTRUCTION MANUAL

... with Replacement Parts



MODEL H-600 SERIES MIXERS

(INCLUDES MOTOR PARTS)

ML-19306 H-600
ML-19286 H-600-T

ML-19311 H-600 (W/POWER BOWL LIFT)
ML-19312 H-600-T (W/POWER BOWL LIFT)

ML-19307 H-600-D
ML-19308 H-600-DT

ML-19313 H-600-D (W/POWER BOWL LIFT)
ML-19314 H-600-DT (W/POWER BOWL LIFT)

A product of HOBART CORPORATION TROY, OHIO 45374

FORM 13447 (8-80)

Installation, Operation and Care of MODEL H-600 SERIES MIXERS

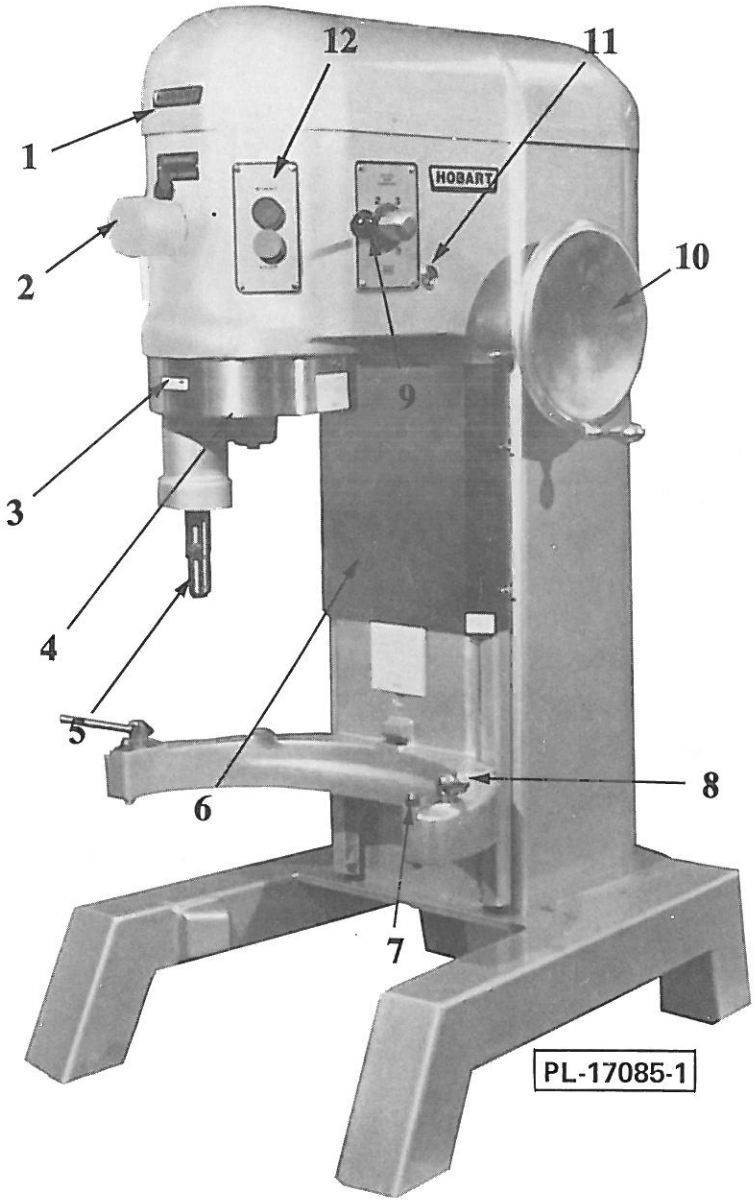


Fig. 1

GENERAL

The H-600 series mixers have a bowl capacity of 60 quarts. With the use of an adapter and special agitators, 30 or 40 quart bowls may also be used. The mixer is powered by a 1-1/2 H.P. motor and is available for single or three phase electrical service.

The H-600 series mixer incorporates a #12 attachment hub (2, Fig. 1) which will accept any #12 attachment. Various attachments and accessories available for this mixer include: Power dicer; vegetable slicer and shredder; meat and food chopper; soup strainer and colander; tray support; bowl jacket; bowl truck; bowl truck adapter; splash cover and bowl extension ring.

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INSTALLATION

Location

Mixer should be placed in a convenient location allowing adequate servicing space on the operational controls side, above and in front of the mixer. Holes are provided in the base for permanent bolting to the floor although this is not necessary in normal installations.

Leveling

The machine must be leveled once located. Remove the top cover screws and the top cover (1, Fig. 1). Place a level on the machined surface of the transmission case (4, Fig. 2). Slide shims under the legs of the base as necessary to level the mixer.

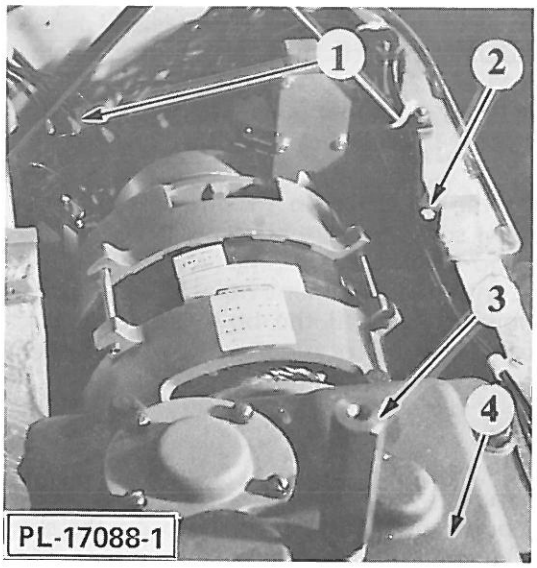


Fig. 2

Lubrication: All lubricating oils are drained from the machine before shipping and must be replaced before operating.

CAUTION: There are different lubricants for the transmission and planetary. Do not interchange the use of these oils as damage to the mixer may result.

Transmission: The front support (3, Fig. 2) for the top cover serves as the oil-fill plug. Remove the support and pour the contents of the bottle labeled "Transmission Oil", shipped with the machine, into the case. The oil level should be between the center and top of the oil level gauge (11, Fig. 1). If the oil level falls below the gauge when the motor is running, more oil is required. When adding oil, add small amounts at a time and check during operation.

Planetary: The recommended oil capacity is 5 to 7 fluid ounces. Since approximately 1 ounce remains in the planetary after draining, 6 ounces are shipped with the machine. Use the oil in the bottle labeled "Oil for Planetary".

Remove the drip cup (4, Fig. 1), which is held by two thumb screws. Check to assure the drain plug (2, Fig. 3) is tight. Slip one end of the tubing (supplied) over the nozzle end of the container labeled "Planetary Oil". Remove the fill plug (1, Fig. 3) and place the other end of the plastic tube in the planetary. Pour entire contents into the machine. Replace the fill plug and drip cup.

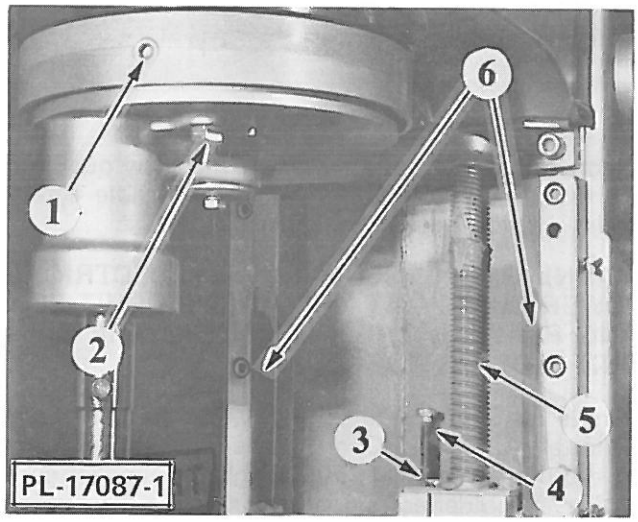


Fig. 3

NOTE: Additional information on routine lubrication may be found under MAINTENANCE.

Electrical Connections

WIRE & FUSE SIZES

		Max Dual Element Time Delay Fuse Size	Minimum Conductor Ampacity	60°C Copper Wire Size
115/60/1		30	30	#10
200/60/1		20	20	#12
200/60/1	W/PBL	30	30	#10
230/60/1		20	20	#12
230/60/1	W/PBL	25	25	#10
200/60/3		10	15	#14
200/60/3	W/PBL	15	15	#14
230/60/3		10	15	#14
230/60/3	W/PBL	15	15	#14
460/60/3		6	15	#14
575/60/3		6	15	#14

Before making electrical connections, check the specifications on the data plate (2, Fig. 4) to assure they agree with those of your electrical service.

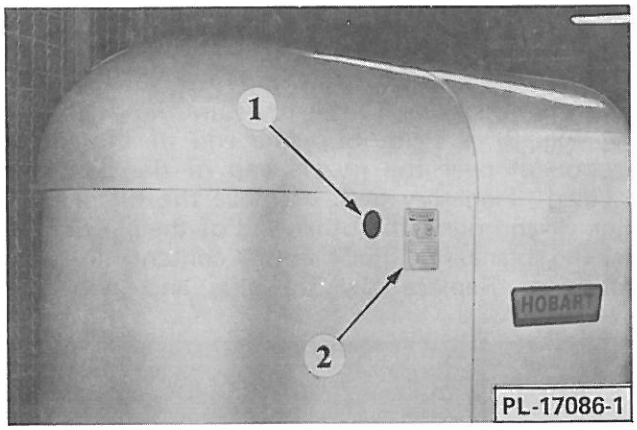


Fig. 4

Electrical connections should be made by qualified workmen who will observe all applicable safety codes and the National Electrical Code.

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AT THE MAIN CIRCUIT BOX AND PLACE A TAG INDICATING THE CIRCUIT IS BEING WORKED ON.

A hole for 3/4" conduit is located at the top of the pedestal (1, Fig. 4). Connect the input power leads to the pigtail leads (1, Fig. 2) from the motor controller. A solderless lug is provided for the service ground.

Three phase machines must be connected so the planetary turns in the direction of the arrow (3, Fig. 1). To check the direction of rotation, turn the power disconnect switch "ON". Place the speed selector (9, Fig. 1) in #1. If machine is equipped with optional timer, place timer on "HOLD". Energize machine momentarily by pushing "START" then "STOP" (12, Fig. 1) and verify the direction of rotation.

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AT THE FUSED DISCONNECT SWITCH AND PLACE A TAG INDICATING THE CIRCUIT IS BEING WORKED ON.

If motor rotation is incorrect, interchange any two of the power supply leads (1, Fig. 2).

OPERATION

Bowl Lift

The manual bowl lift is operated by the hand wheel (10, Fig. 1). To raise the bowl, turn the wheel clockwise and counterclockwise to lower.

Power Bowl Lift (Optional)

The bowl can be automatically raised or lowered to any height by moving the control handle from the center "OFF" position, clockwise to raise or counterclockwise to lower. An overload slip clutch will ratchet at the top and bottom stop positions to signal end of travel and protect the operating mechanism.

In case of power failure, the bowl can be raised or lowered manually. First remove the apron (6, Fig. 1), held in place by four thumb screws, to expose the lift screw (5, Fig. 3). Place a 1" open end wrench on the lift screw hex and turn the bowl lift screw in the direction desired.

Bowl

NOTE: Due to variations in bowls and agitators, it is RECOMMENDED that the agitator clearance be checked and adjusted if necessary with every bowl or agitator change. See MAINTENANCE for adjustment procedure.

Lower the bowl lift to its bottom stop. Position the bowl so the square alignment bracket is to the back and the alignment pins (7, Fig. 1) in the bowl lift fit into the alignment holes of the bowl. Raise the bowl yoke until the bowl is seated. Lock the bowl in place by rotating the bowl clamps (8, Fig. 1) over the ears of the bowl.

Agitators

With the bowl in place and the lift at its bottom stop, push the agitator shank up on the shaft (5, Fig. 1) and turn clockwise until the drive pin of the shaft latches in the L-shape slot of the agitator shank. Agitators which may be used with this mixer are identified on the last page of this manual.

Speeds

Speed #1 (Low) is for heavy mixtures like dough, heavy batters and potatoes.
Speed #2 (Medium - Low) is for mixing cake batters, mashing potatoes and for developing dough.
Speed #3 (Medium - High) is for maximum incorporation of air into light batches. The "D" whip is used for whipping cream, beating egg whites, mixing; light icings, meringues and whipping.
Speed #4 (High) is for accelerated and maximum air incorporation into light batches.

NOTE: For additional information on attachment operation speeds and mixing speeds for specific

results, refer to the "Use and Applications Hand Book" included with this machine.

H-600; H-600-D

Turn power supply to mixer "ON". Set the speed selector handle (2, Fig. 5) at the desired speed and depress the "START" button (1, Fig. 5).

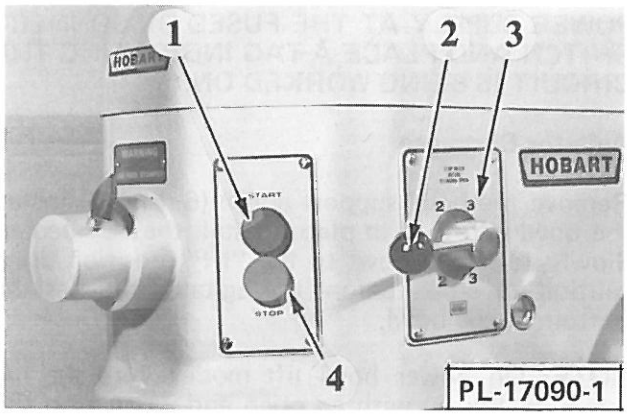


Fig. 5

To change speeds, turn the motor off by pressing the "STOP" button (4, Fig. 5). Allow the planetary to stop rotating. Move the speed selector handle (2, Fig. 5) to the desired speed. Make certain the speed selector handle lines up with the number on the shift selector plate (3, Fig. 5). Never position the handle between numbers. Restart the mixer.

H-600-T; H-600-DT

For non-timed operation, set the speed selector handle (2, Fig. 6) at the desired speed. Set the timer (4, Fig. 6) on "HOLD" and depress the "START" button (1, Fig. 6).

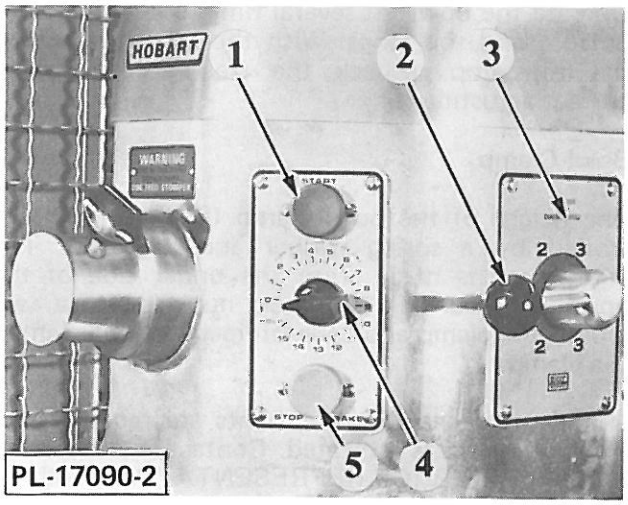


Fig. 6

For timed operation, set the speed selector handle (2, Fig. 6) at the desired speed. Set the timer (4, Fig. 6) at the desired time (if less than 3 minutes turn past "3" and back to the desired time), and depress the "START" button (1, Fig. 6).

With the timer (4, Fig. 6) set at "0", the start button (1, Fig. 6) becomes a "JOG" button and permits inching of the planetary. When the "START" button is depressed, power is supplied to the motor as long as the button is depressed.

A brake is provided to quickly stop the agitator shaft. The brake is actuated by the two position "STOP" button (5, Fig. 6). When the "STOP" button is depressed to the first position, power is cut off to the mixer. When pushed all the way in, the brake is applied and remains on until the button is released.

To change speeds, turn the motor off and apply the brake by pushing the "STOP" button (5, Fig. 6). When the agitator shaft has stopped, release the button. Move the speed selector handle (2, Fig. 6) to the desired speed. Make certain the speed selector handle lines up with the number on the shift selector plate (3, Fig. 6). Never position the handle between numbers. Restart the mixer.

Attachments

Install the attachment into the attachment hub of the mixer (2, Fig. 1). Make certain the square shank of the attachment is in the square drive of the mixer. Secure the attachment by tightening the thumb screw. Place the speed selector handle (9, Fig. 1) in the desired speed. Turn mixer "ON" (12, Fig. 1) to operate attachment.

The meat and food chopper attachment should be operated in speed #3. If material in the cylinder stalls the mixer, stop the mixer at once. Remove the adjusting ring, knife, plate and worm and remove the obstruction. Do not attempt to restart the mixer in a lower speed.

MAINTENANCE

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AT THE FUSED DISCONNECT SWITCH AND PLACE A TAG INDICATING THE CIRCUIT IS BEING WORKED ON.

Cleaning

A kit, including a brush and bowl scraper, is furnished to aid cleaning operations. The bowl scraper,

with a cloth wrapped around it, provides a tool to reach the narrow opening between the bowl yoke and pedestal at the slideways (6, Fig. 3). Other areas may be cleaned by using the brush.

The mixer should be thoroughly cleaned daily. Do not use a hose on the mixer. It should be washed with a clean damp cloth. The base allows ample room to clean under the mixer. The bowl support apron (6, Fig. 1) may be easily removed by loosening the thumb screws.

The drip cup (4, Fig. 1) should be removed periodically and wiped clean. The cup is removed by loosening the two thumb screws and pulling down.

Lubrication

Planetary: The oil in the planetary should be checked periodically. Remove the drip cup (4, Fig. 1) by loosening the two thumb screws and pulling down. Remove the fill plug (1, Fig. 3). Oil should be even with the bottom of the fill plug hole. If oil does not run out, slowly add "Gearep #85" until it begins to overflow. Replace the fill plug and the drip cup.

An oil drain is located at the bottom of the planetary (2, Fig. 3). Should draining be necessary, remove the drip cup (4, Fig. 1) and place a suitable catch pan under the planetary. Remove the drain plug. When completely drained, replace the drain plug. Remove the fill plug (1, Fig. 3) and replenish with 6 ounces of "Gearep #85".

NOTE: If the planetary seal becomes dry, it may squeal. A little lubrication worked under the lip of the seal will stop the squeal.

Transmission: The oil level should be somewhere between the center and top of the oil gauge (11, Fig. 1) for correct lubrication. If the oil falls below this, remove the top cover (1, Fig. 1) and the front cover support (3, Fig. 2), which acts as a fill plug. Pour "Gearep #140" into the transmission until oil returns to the gauge line. Replace the bracket and the top cover. Use caution not to overfill the transmission as leakage may result.

Bowl Lift: The slideways (6, Fig. 3) and the lift screw (5, Fig. 3) should be lubricated about twice a year depending upon amount of use. To reach these areas, loosen the thumb screws and remove the apron (6, Fig. 1). Wipe a thin coat of "Lubriplate 630AA" (supplied) on each slideway and on the lift screw. Replace the apron and tighten the thumb screws.

On manual lift units also lubricate the handwheel gearing. To do this, remove the top cover (1, Fig. 1) and wipe some "Lubriplate 630AA" (supplied) on the gear teeth inside the pedestal. The handwheel shaft is oiled through an oiler (2, Fig. 2) on the handwheel bracket.

ADJUSTMENTS

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AT THE FUSED DISCONNECT SWITCH AND PLACE A TAG INDICATING THE CIRCUIT IS BEING WORKED ON.

Agitator Clearance

Remove the bowl support apron (6, Fig. 1). Install the bowl and lock in place. Install the "B" beater. Slowly raise the bowl to the "UP" position using caution to stop before the agitator touches the bottom of the bowl.

NOTE: On power bowl lift models turn the lift screw (5, Fig. 3) with an open end wrench on the machined hex at the top of the screw.

Rotate the agitator around the bowl by hand to locate the point of least clearance.

The clearance between the agitator and the bottom of the bowl should be no more than 1/8". A match book may be used as a gauge for this measurement.

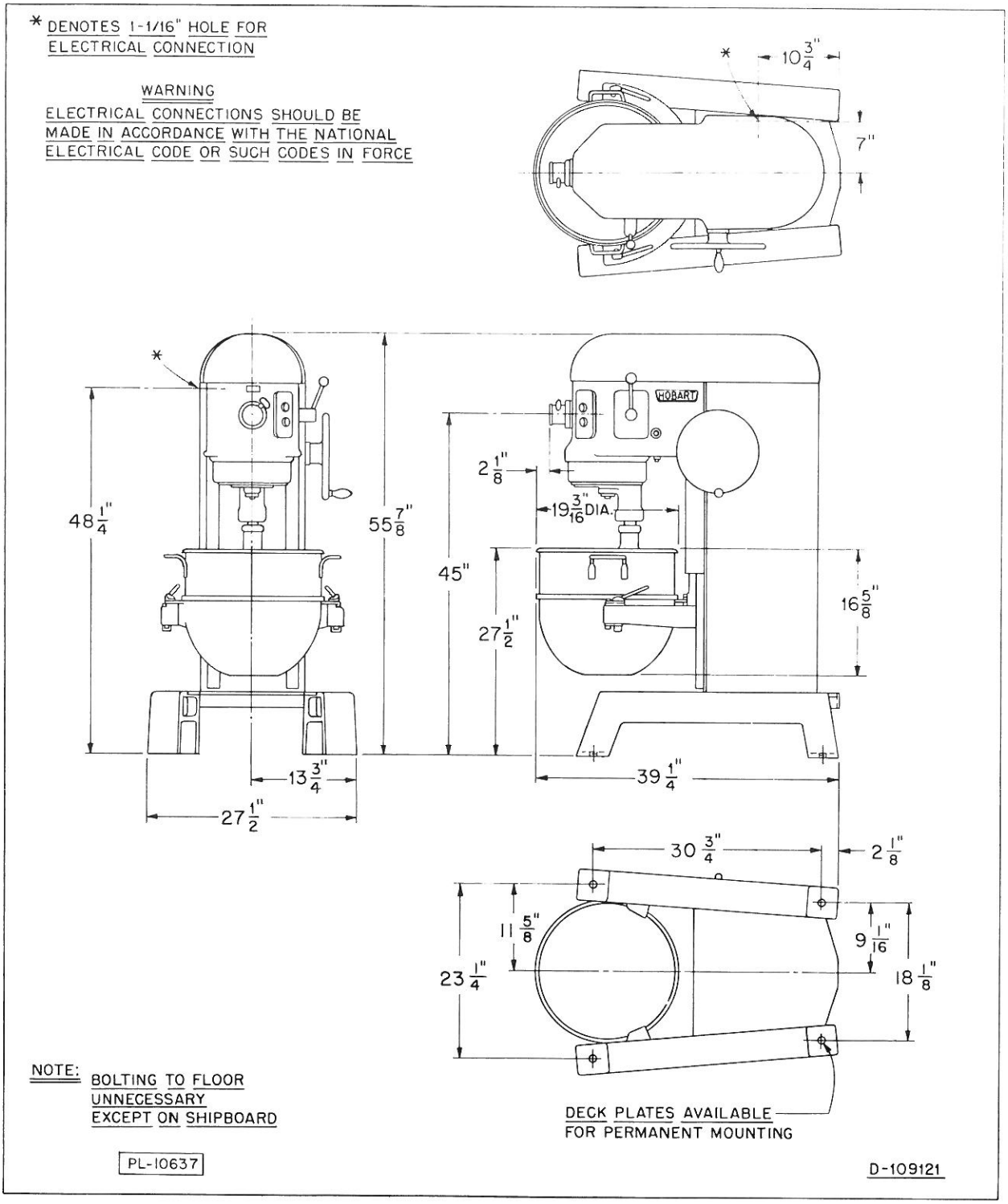
Loosen the lock nut (3, Fig. 3) and turn the stop screw (4, Fig. 3) clockwise several turns. Slowly turn the bowl lift (10, Fig. 1) to the specified clearance. Turn the stop screw counterclockwise until it is firmly seated against the mixer pedestal. Tighten the lock nut while holding the stop screw.

Operate the bowl lift several times contacting both bottom and top stops. With the bowl lift against the top stop recheck the clearance to assure correct adjustment.

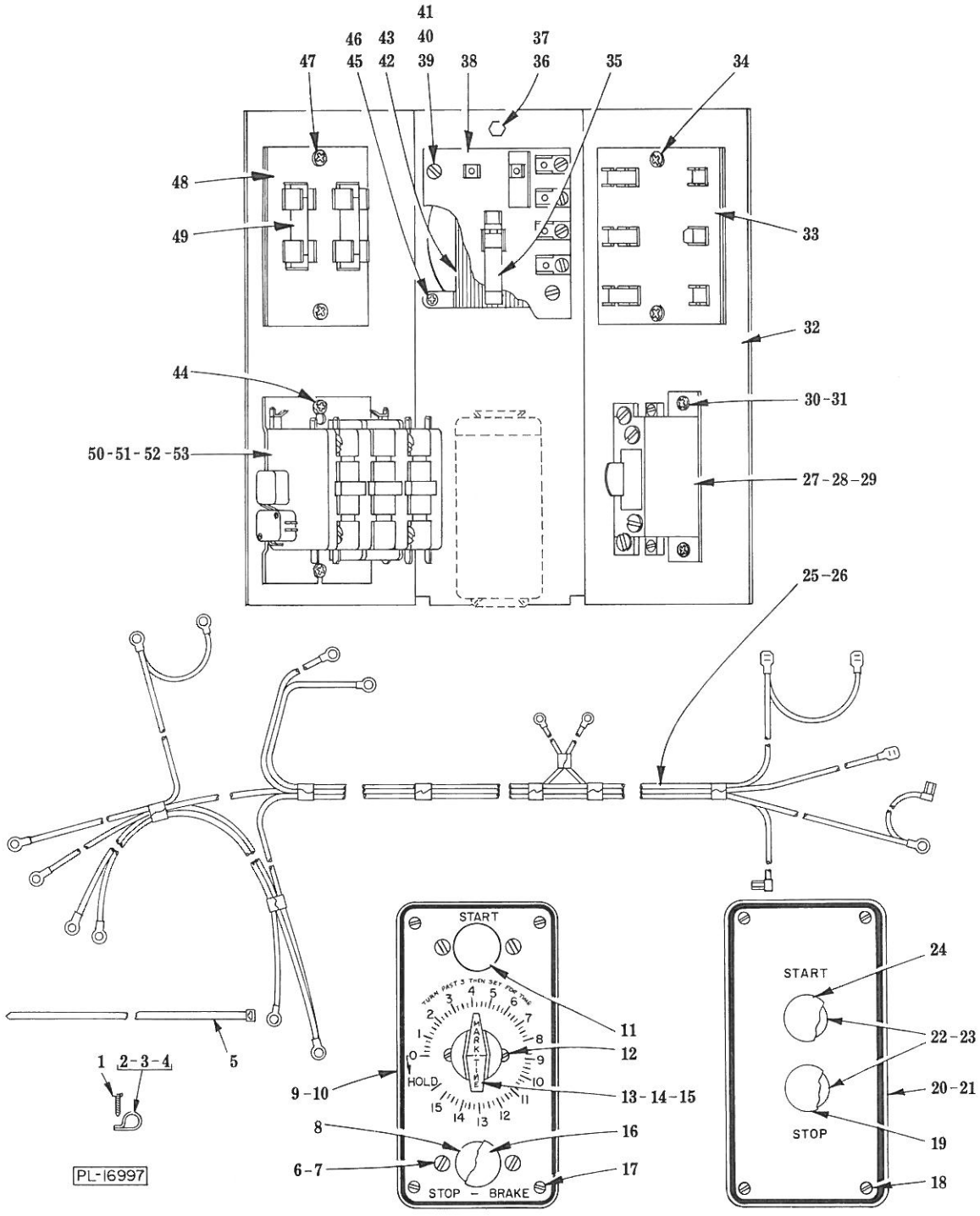
Bowl Clamp

The height of the bowl clamp (8, Fig. 1) is controlled by a spring washer and lock nut. The adjustment is made from the under side of the bowl lift. Turning the lock nut clockwise will loosen the clamp and counterclockwise will tighten the clamp.

NOTE: If repeated adjustments are required, additional service is indicated. Contact an authorized HOBART SERVICE REPRESENTATIVE.



INSTALLATION DIAGRAM

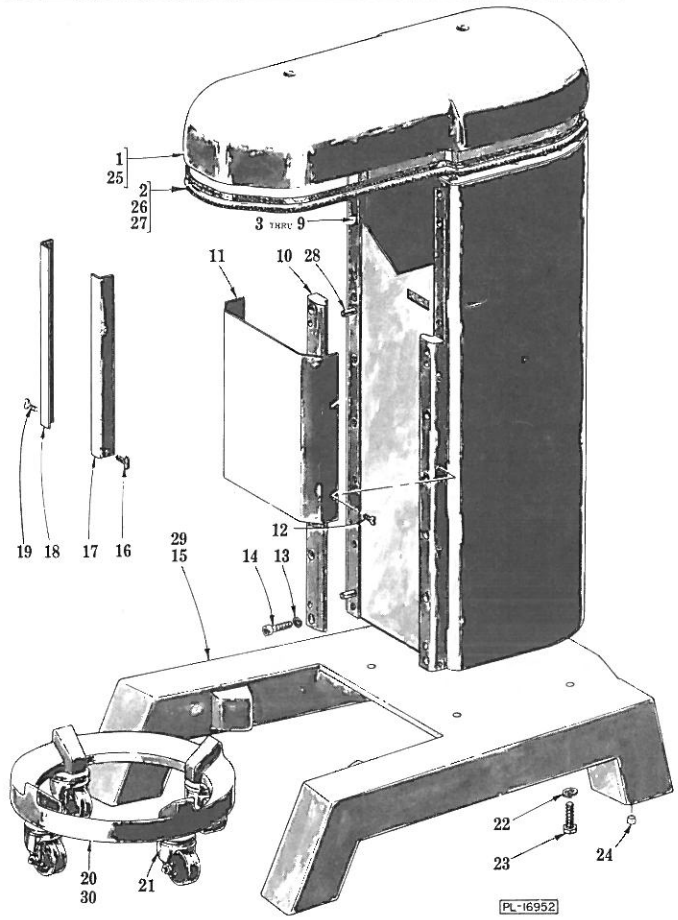


TIMER AND CONTROL UNIT

TIMER AND CONTROL UNIT

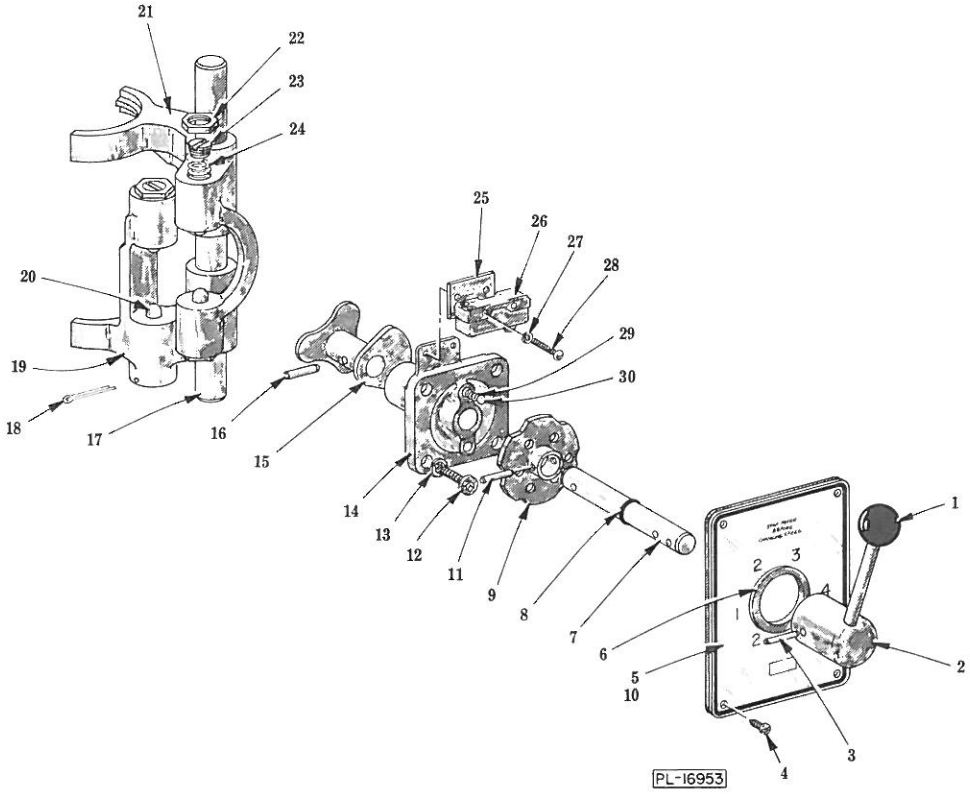
ILLUS. PL-16997	PART NO.	NAME OF PART	AMT.
1	SD-24-1	Self-Tapping Screw - #10-24 x 3/8" Pan Hd. "Taptite"	3
2	M-78752-6	Clamp (50/60 Hz., 1 Ph.)	3
3	M-78752-6	Clamp (50/60 Hz., 3 Ph.)	2
4	M-78752-3	Clamp (50/60 Hz., 3 Ph.)	1
5	B-113703	Tie - Cable	2
*6	SC-15-26	Mach. Screw - #8-32 x 5/16" Oval Hd	4
*7	WS-2-18	Washer	4
*8	A-102229	Push Button Station Assy	2
*9	C-117853	Plate - Timer (15 Min.)	1
*10	M-69918	Insulator - Push Button Station	1
*11	A-102467-1	Cap - Push Button (Start)	1
*12	SC-13-7	Mach. Screw - #5-40 x 1/4" Flat Hd	2
*13	A-103228	Timer & Gasket Assy. (15 Min.) (Incls. item #12)	1
*14	A-103229	Timer, Dial & Gasket Assy. (30 Min.) (Incls. items #12 & 15)	1
*15	B-73540	Dial - Timer (30 Min.)	1
*16	A-102467-2	Cap - Push Button (Stop)	1
*17	B-123131	Self-Tapping Screw - #8-32 x 3/8" Truss Hd. "Taptite"	4
18	B-123131	Self-Tapping Screw - #8-32 x 3/8" Truss Hd. "Taptite"	4
19	M-68984-2	Cap - Push Button (Stop)	1
20	M-69485	Insulation - Push Button Station	1
21	C-117850	Plate - Switch	1
22	B-102230	Push Button Station Assy	1
23	SC-12-36	Mach. Screw - #10-24 x 3/4" Fil. Hd	2
24	M-68984-1	Cap - Push Button (Start)	1
*25	E-121819	Harness - Wiring	1
26	E-122053	Harness - Wiring (H-600 & H-600-D) (Not Shown)	1
27	B-88196-6-1	Relay - Thermal Overload (1 Ph.)	1
28	B-88196-5-1	Relay - Thermal Overload (3 Ph.)	1
29	***	Heater Element	AR
30	SD-15-20	Self-Tapping Screw - #10-32 x 3/8" Phil. Pan Hd. "Taptite" (Use with item #27)	2
31	SD-15-20	Self-Tapping Screw - #10-32 x 3/8" Phil. Pan Hd. "Taptite" (Use with item #28)	4
32	E-121823	Panel - Control	1
33	C-121014	Board - Terminal	1
34	SD-15-20	Self-Tapping Screw - #10-32 x 3/8" Phil. Pan Hd. "Taptite"	2
35	FE-16-30	Fuse (2 Amp.) (Use with items #42 & 43)	2
36	SC-36-14	Fin. Bolt - 1/4"-20 x 1/2" Hex Hd	1
37	WL-3-38	Lock Washer - 1/4" Medium	1
38	C-114707	Terminals & Mounting Board Assy. (460 V., 60 Hz.; 380 V., 50 Hz., 3 Ph.) (230/200 V., 60 Hz., 1 & 3 Ph.; 220 V., 50 Hz., 1 & 3 Ph. W/Pilot Circuit)	1
39	SC-19-33	Mach. Screw - #8-32 x 1/2" Bind. Hd	2
40	WL-7-7	Lock Washer - #8 Ext. Shakeproof	2
41	NS-9-12	Mach. Nut - #8-32 Hex	2
42	B-120907	Transformer (60 Hz.)	1
43	B-120908	Transformer (50 Hz.)	1
44	SD-15-20	Self-Tapping Screw - #10-32 x 3/8" Phil. Pan Hd. "Taptite"	2
45	SD-15-20	Self-Tapping Screw - #10-32 x 3/8" Phil. Pan Hd. "Taptite"	2
46	WL-7-12	Lock Washer - #10 Ext. Shakeproof	2
**47	SD-12-20	Self-Tapping Screw - #8-32 x 1/2" Phil. Truss Hd., Type 23	2
**48	C-120924	Terminal Board Assy	1
**49	FE-21-1	Fuse (3.5 Amp.)	2
50	B-121925-2	Contactor (115 V., 50/60 Hz.) (200/230 V., 60 Hz. W/Pilot Circuit; 220 V., 50 Hz. W/Pilot Circuit) (1 Ph.)	1
51	B-121925-1	Contactor (200/230 V., 60 Hz.; 220 V., 50 Hz.) (1 Ph.)	1
52	B-121926-2	Contactor (460 V., 60 Hz.; 380 V., 50 Hz.) (200/230 V., 60 Hz. W/Pilot Circuit; 220 V., 50 Hz. W/Pilot Circuit) (3 Ph.)	1
53	B-121926-1	Contactor (200/230 V., 60 Hz.; 220 V., 50 Hz.) (3 Ph.)	1

*H-600-T & H-600-DT.
**Power Bowl Lift.
***Give Elec. Spec., Mach. Model & Motor Type.



BASE AND PEDESTAL UNIT

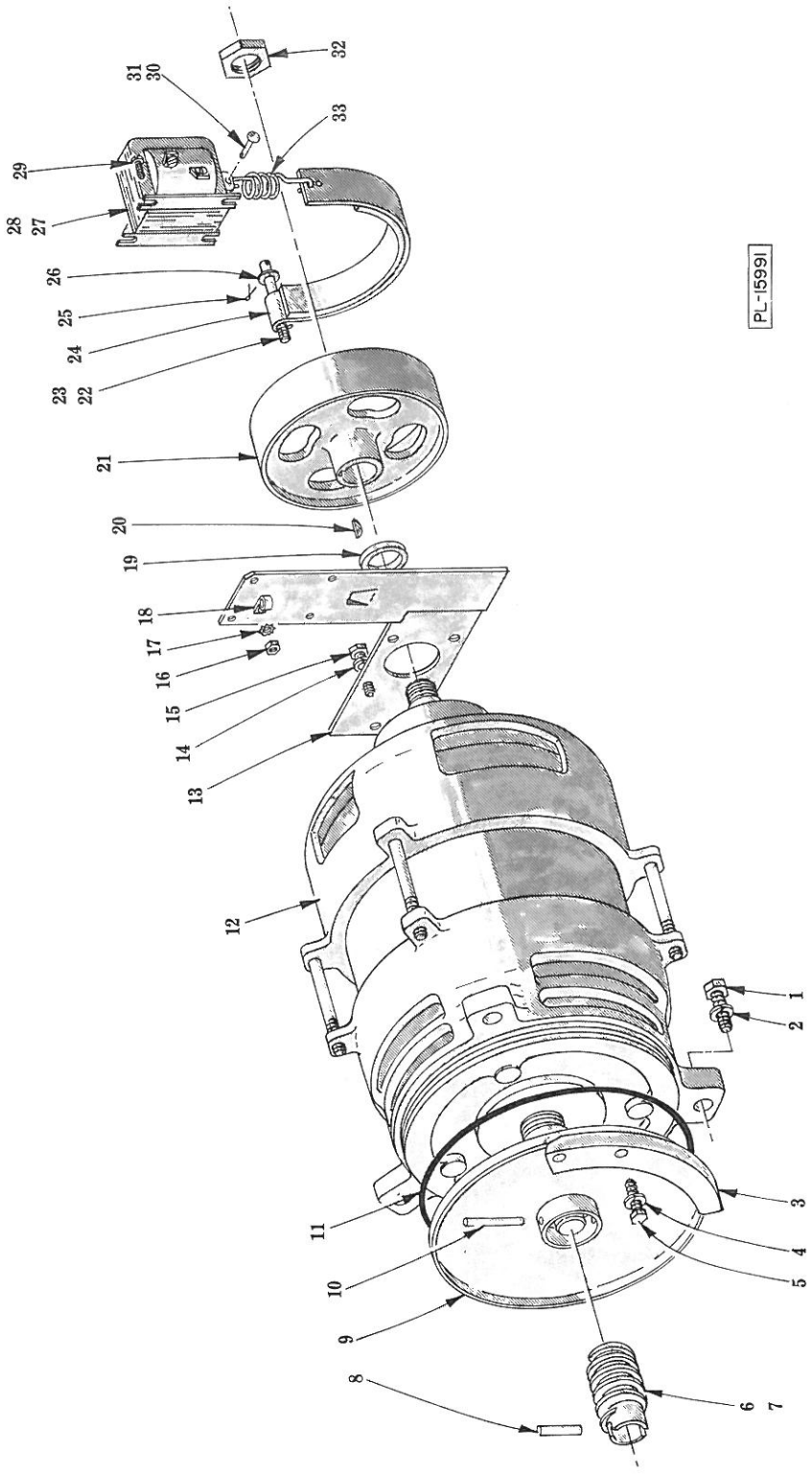
ILLUS. PL-16952	PART NO.	NAME OF PART	AMT.
1	S-24801-4	Top Cover Assy. (Incls. item #2) (Deluxe)	1
2	M-24781-2	Seat - Top Cover (Deluxe)	1
3	E-121821-2	Pedestal Assy. (Incls. item #28) (Deluxe)	1
4	E-121821-4	Pedestal Assy. (Incls. item #28) Power Bowl Lift (Deluxe)	1
5	C-118544-1	Lug - Solderless	1
6	SD-24-1	Self-Tapping Screw - #10-24 x 3/8" Pan Hd. "Taptite"	1
7	WL-10-6	Lock Washer - #10 Ext. Shakeproof	1
8	E-121821-1	Pedestal Assy. (Incls. item #28) (Painted)	1
9	E-121821-3	Pedestal Assy. (Incls. item #28) Power Bowl Lift (Painted)	1
10	R-24189-3	Slideway - Pedestal	2
11	S-24260	Apron - Pedestal	1
12	P-70641-9	Thumb Screw	4
13	WL-4-2	Lock Washer - 3/8" Light	12
14	SD-15-12	Self-Tapping Screw - 3/8"-16 x 1-1/2" Soc. Fil. Hd. "Taptite"	12
15	E-110231	Base Assy. (Deluxe)	1
16	P-70641-9	Thumb Screw (Deluxe)	2
17	P-68236	Cover - Right Slideway (Deluxe)	1
18	P-68237	Cover - Left Slideway (Deluxe)	1
19	P-70641-9	Thumb Screw (Deluxe)	2
20	R-21922-3	Bowl Truck Assy. (Incls. item #21) (Deluxe)	1
21	B-87669-1	Caster	4
22	WL-4-11	Lock Washer - 1/2" Medium	4
23	SC-62-83	Fin. Bolt - 1/2"-13 x 1-1/2" Hex Hd	4
24	A-116395	Plug - Base	AR
25	E-124475-1	Top Cover Assy. (Incls. items #26 & 27) (Painted)	1
26	B-123687-2	Gasket (39-3/4") (Painted)	1
27	B-123687-3	Gasket (42") (Painted)	1
28	D-11800-143	Dowel	2
29	E-110222-2	Base (Painted)	1
30	R-21922-1	Bowl Truck Assy. (Incls. item #21) (Painted)	1



SHIFTING UNIT

ILLUS. PL-16953	PART NO.	NAME OF PART	AMT.
1	M-60468	Knob - Gear Shift	1
2	M-60469	Handle and Hub Assy	1
3	RP-2-3	Rollpin - 3/16" Dia. x 1-1/4" Lg	1
4	B-123131	Self-Tapping Screw - #8-32 x 3/8" Truss Hd. "Taptite"	4
***5	C-117873-1	Plate - Shift Selector	1
6	M-60395	Grommet - Gear Shift	1
7	M-60400	Shaft - Gear Shift	1
8	D-67500-6	"O" Ring	1
9	M-60394	Hub & Cam Assy	1
**10	C-117873-2	Plate - Shift Selector	1
11	RP-2-10	Rollpin - 3/16" Dia. x 1" Lg	1
12	SC-40-14	Cap Screw - 5/16"-18 x 3/4" Soc. Fil. Hd	4
13	WL-3-44	Lock Washer - 5/16" Medium	4
14	P-60359	Bracket - Gear Shift	1
15	P-24249	Gear Shift Cam Assy	1
16	RP-2-5	Rollpin - 1/4" Dia. x 7/8" Lg	1
17	M-24227	Shaft - Shifter	1
18	PC-3-24	Cotter Pin - 1/16" x 1-1/2"	1
19	R-24228	Yoke - Lower Shifting	1
20	M-24230	Plunger - Shifting Yoke	4
21	R-24229	Yoke - Upper Shifting	1
22	M-24232	Nut - Plunger Screw	3
23	M-60723	Screw - Shifting Plunger	4
24	M-24233	Spring - Shifting Plunger	4
*25	M-60679	Insulator	1
*26	P-87711-71-1	Switch - Interlock	1
*27	WL-3-7	Lock Washer - #6 Light	2
*28	SC-9-45	Mach. Screw - #6-32 x 1" Rd. Hd	2
29	V-7009	Spring	2
30	BA-2-18	Ball - 3/8" Dia.	2
	R-89676	Gear Shift Assy. (Incls. items #2, 3, 7, 8, 9, 11, 14, 15, 16, 29 & 30)	1
	R-89670-1	Shifting Yoke Assy. (Incls. items #17 thru 24)	1

*H-600-T & H-600-DT.
**H-600-D & H-600-DT.
***H-600 & H-600-T.

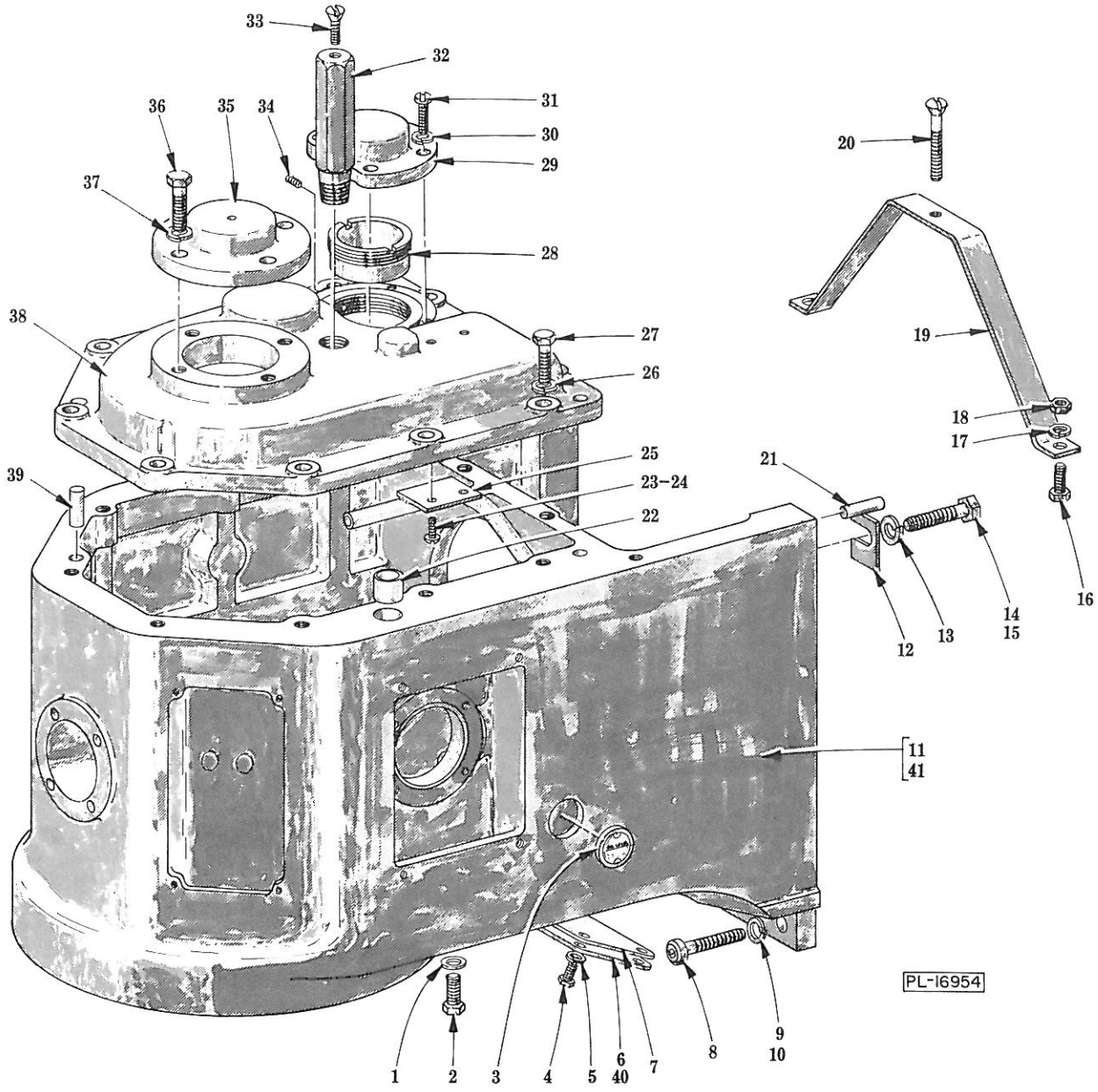


MOTOR AND BRAKE UNIT

MOTOR AND BRAKE UNIT

ILLUS. PL-15991	PART NO.	NAME OF PART	AMT.
1	SC-36-98	Fin. Bolt - 1/2"-13 x 1-1/4" Hex Hd	3
2	WL-4-12	Lock Washer - 1/2" Light	3
3	P-24610	Guide - Oil Flinger	1
4	WL-3-43	Lock Washer - 5/16" Light	2
5	SC-36-28	Fin. Bolt - 5/16"-18 x 1-1/4" Hex Hd	2
6	M-24298	Worm - Drive (5T) (60 Hz.)	1
7	M-24291	Worm - Drive (5T) (50 Hz.)	1
8	RP-2-6	Rollpin - 1/4" Dia. x 1" Lg	1
9	P-24257-2	Flinger and Hub Assy	1
10	RP-2-4	Rollpin - 3/16" Dia. x 1-5/8" Lg	1
11	D-67500-24	"O" Ring - Bearing Bracket	1
12	ML-19168	Motor (Give Elec. Spec.)	1
*13	P-24771	Brake Mounting Bracket Assy	1
*14	WL-3-43	Lock Washer - 5/16" Light	4
*15	SC-37-75	Fin. Bolt - 5/16"-18 x 3/4" Hex Hd	4
*16	NS-9-12	Mach. Nut - #8-32 Hex	4
*17	WL-7-6	Lock Washer - #8 Ext. Shakeproof	4
*18	M-24167-1	Clamp - Lead Support	1
*19	B-120955	Spacer - Brake Drum	1
*20	KW-3-5	Key - #405 Woodruff	1
*21	R-60777	Drum - Motor Brake	1
*22	M-24774	Stud - Brake Band	1
*23	NS-32-7	Stop Nut - 1/4"-20 "Flexloc"	1
*24	P-24776	Brake Band Assy	1
*25	PC-3-32	Cotter Pin - 3/32" x 1/2"	1
*26	WS-3-20	Washer	1
*27	P-23926-1	Solenoid - Brake (200/230 V., 60 Hz., 1 & 3 Ph.; 220 V., 50 Hz., 1 & 3 Ph.)	1
*28	P-23926-7	Solenoid - Brake (115 V., 50/60 Hz., 1 Ph.; 460 V., 60 Hz., 3 Ph.; 380 V., 50 Hz., 3 Ph.) (200/230 V., 50/60 Hz., 1 & 3 Ph. W/Pilot Circuit; 220 V., 50 Hz., 1 & 3 Ph. W/Pilot Circuit)	1
*29	SC-7-41	Mach. Screw - #8-32 x 3/8" Rd. Hd	4
*30	M-63201	Pin - Solenoid Clevis	1
*31	PC-3-23	Cotter Pin - 1/16" x 1/2"	1
*32	V-6566	Nut - Lock	2
*33	M-24775	Spring - Motor Brake	1
	*R-24770-1	Motor Brake Assy. (115 V., 50/60 Hz., 1 Ph.; 460 V., 60 Hz., 3 Ph.; 380 V., 50 Hz., 3 Ph.) (200/230 V., 50/60 Hz., 1 & 3 Ph. W/Pilot Circuit; 220 V., 50 Hz., 1 & 3 Ph. W/Pilot Circuit) (Incls. items #13, 16, 17, 18, 22, 23, 24, 25, 26, 28, 29, 30, 31 & 33)	1
	*R-24770-2	Motor Brake Assy. (200/230 V., 60 Hz., 1 & 3 Ph.; 220 V., 50 Hz., 1 & 3 Ph.) (Incls. items #13, 16, 17, 18, 22, 23, 24, 25, 26, 27, 29, 30, 31 & 33)	1

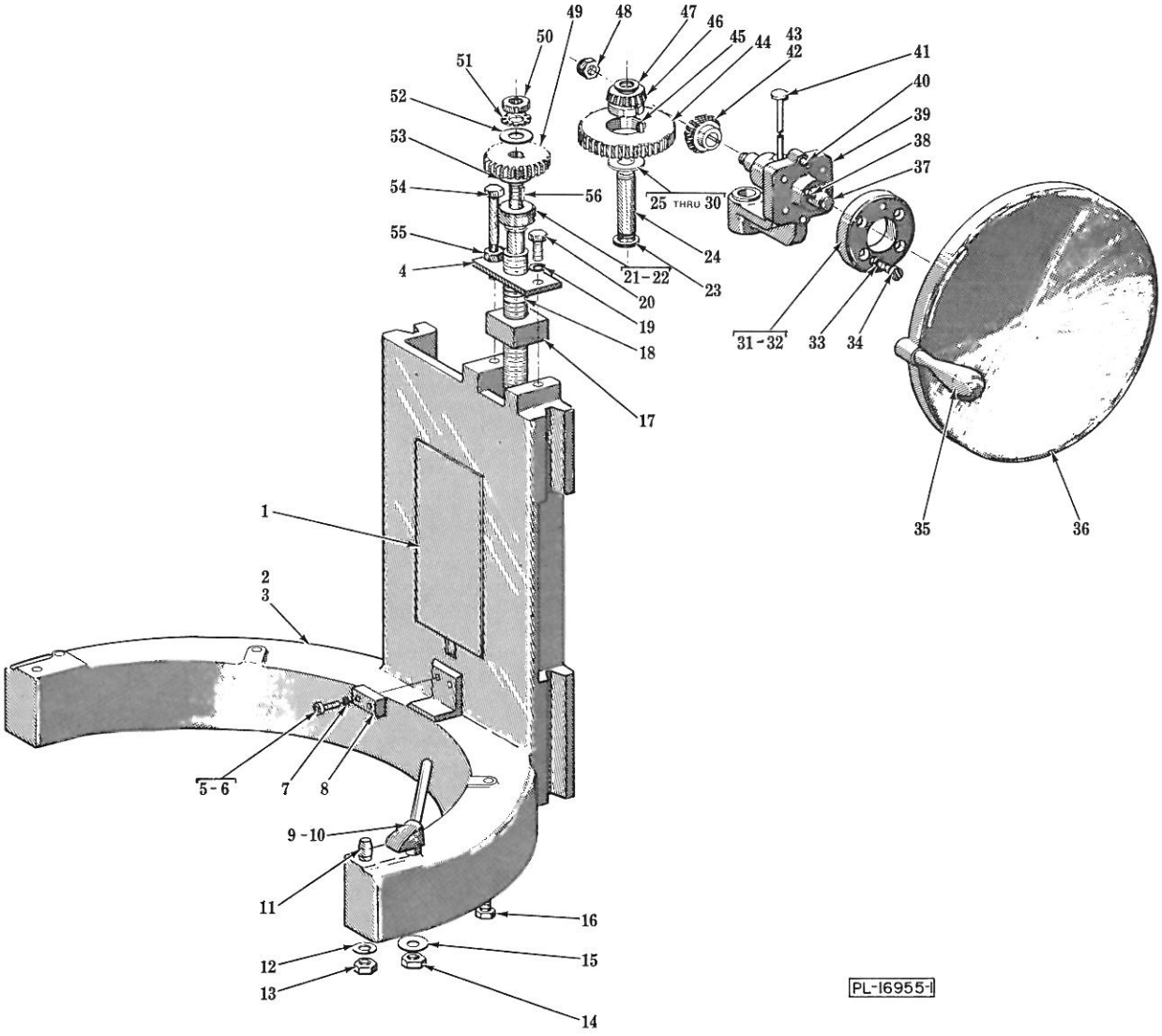
*H-600-T & H-600-DT.



TRANSMISSION CASE UNIT

TRANSMISSION CASE UNIT

ILLUS. PL-16954	PART NO.	NAME OF PART	AMT.
1	WS-21-21	Washer	1
2	SC-62-60	Fin. Bolt - 1/2-20 x 1" Hex Hd	1
3	M-22793	Gauge - Oil Level	1
4	SC-68-14	Mach. Screw - #8-32 x 3/8" Trimmed Hex Hd	4
5	WL-3-15	Lock Washer - #8 Light	4
6	M-24264-1	Plate - Transmission Case Cover (H-600 & H-600-T)	1
7	M-24665	Gasket - Transmission Case Cover Plate	1
8	SC-40-36	Cap Screw - 1/2"-13 x 1-3/4" Soc. Fil. Hd	2
9	WL-4-13	Lock Washer - 1/2" Medium	1
10	WL-4-14	Lock Washer - 1/2" High Collar	1
11	E-120561-2	Case - Transmission (H-600 & H-600-T)	1
12	M-68288	Shim (.0179" Thk.)	AR
13	WL-4-13	Lock Washer - 1/2" Medium	4
14	SC-62-66	Fin. Bolt - 1/2"-13 x 1-3/4" Hex Hd	2
15	SC-62-67	Fin. Bolt - 1/2"-13 x 2-1/4" Hex Hd	2
16	SC-36-4	Fin. Bolt - 1/4"-20 x 3/4" Hex Hd	2
17	WL-3-37	Lock Washer - 1/4" Medium	2
18	NS-13-1	Full Nut - 1/4"-20 Hex Fin	2
19	P-62108-1	Strap - Top Anchoring	1
20	SC-16-19	Mach. Screw - 1/4"-20 x 2" Oval Hd	1
21	D-11800-221	Dowel	2
22	V-24670	Insulator - Fiber	1
23	SC-7-82	Mach. Screw - #10-24 x 3/4" Rd. Hd	2
24	NS-32-1	Stop Nut - #10-24 "Flexloc"	2
25	P-24253	Oil Delivery Tube & Plate Assy	1
26	WL-4-2	Lock Washer - 3/8" Light	11
27	SC-62-48	Fin. Bolt - 3/8"-16 x 1-1/8" Hex Hd	11
28	P-24254	Sleeve - Worm Gear Adjusting	1
29	P-24256	Retainer - Upper Worm Shaft Bearing	1
30	WL-3-37	Lock Washer - 1/4" Medium	4
31	SC-38-5	Cap Screw - 1/4"-20 x 1" Fil. Hd	4
32	M-24782	Support - Top Cover Front	1
33	SC-15-70	Mach. Screw - 1/4"-20 x 1" Oval Hd	1
34	SC-47-70	Set Screw - #10-32 x 3/8" Soc. Hdls., Cup Pt	2
35	P-24255	Retainer - Planetary Bearing	1
36	SC-36-28	Fin. Bolt - 5/16"-18 x 1-1/4" Hex Hd	4
37	WL-3-44	Lock Washer - 5/16" Medium	4
38	T-24203	Cover - Transmission Case	1
39	D-11800-224	Dowel	2
40	M-24264-2	Plate - Transmission Case Cover (H-600-D & H-600-DT)	1
41	E-120562-2	Case - Transmisson (H-600-D & H-600-DT)	1

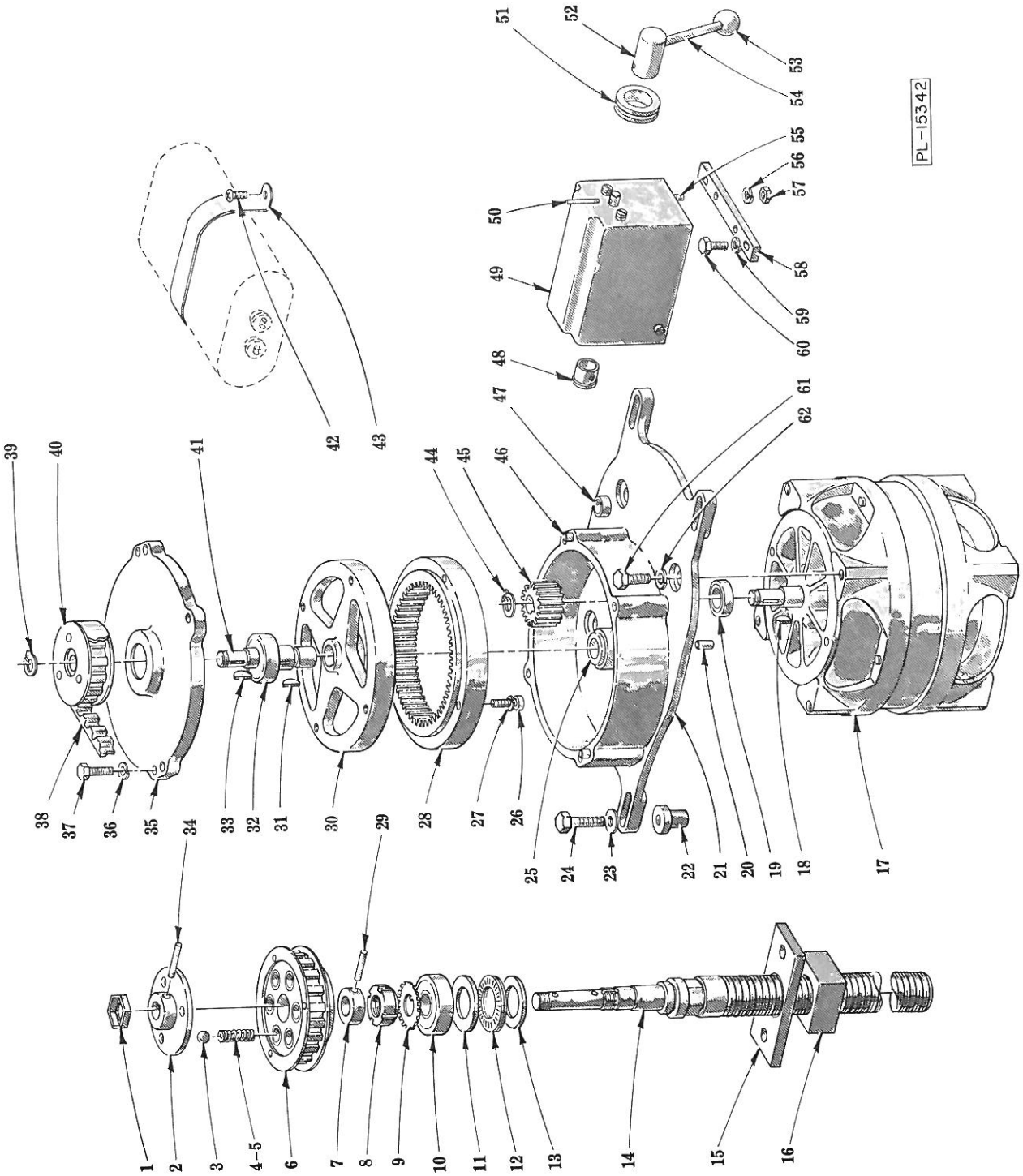


BOWL SUPPORT AND LIFT UNIT

BOWL SUPPORT AND LIFT UNIT

ILLUS. PL-16955-1	PART NO.	NAME OF PART	AMT.
*1	C-104493	Cover - Access Opening	1
*2	E-124685-2	Support - Bowl	1
**3	E-124686	Support - Bowl	1
4	M-24201	Retainer - Bowl Lift Nut	1
*5	SC-40-10	Cap Screw - 1/4"-20 x 3/4" Soc. Fil Hd	2
**6	SC-40-68	Cap Screw - 1/4"-20 x 3/4" Soc. Fil Hd	2
**7	WL-3-35	Lock Washer - 1/4" High Collar	2
8	M-24296	Retainer - Bowl	1
9	P-65922-10	Bowl Clamp Assy. (R.H.)	1
10	P-65922-11	Bowl Clamp Assy. (L.H.) (Not Shown)	1
11	B-120349	Stud - Bowl Locating	2
12	WL-4-12	Lock Washer - 1/2" Light	2
13	NS-17-27	Jam Nut - 1/2"-13 Hex Fin	2
14	NS-46-2	Lock Nut - 5/8"-11 Hex "Nylok"	2
15	M-64636	Spring Washer - Bowl Clamp	2
16	SC-37-74	Fin. Bolt - 3/8"-16 x 1-1/2" Hex Hd	1
17	M-24198	Nut - Bowl Lift Screw	1
18	C-290052-1	Screw - Bowl Lift	1
19	WL-4-2	Lock Washer - 3/8" Light	1
20	SC-36-53	Fin. Bolt - 3/8"-16 x 7/8" Hex Hd	1
21	BB-5-30	Ball Bearing - N.D. #Z99503	1
22	B-290053	Spacer	1
23	RR-5-2	Retaining Ring (Spirolox)	1
24	M-24194	Shaft - Miter Gear	1
25	M-24614-1	Washer - Miter Gear Spacer (.096" Thk.)	AR
26	M-24614-2	Washer - Miter Gear Spacer (.091" Thk.)	AR
27	M-24614-3	Washer - Miter Gear Spacer (.086" Thk.)	AR
28	M-24614-4	Washer - Miter Gear Spacer (.081" Thk.)	AR
29	M-24614-5	Washer - Miter Gear Spacer (.076" Thk.)	AR
30	M-24614-6	Washer - Miter Gear Spacer (.071" Thk.)	AR
*31	M-24609-1	Ring - Hand Wheel Brkt. Clamping	1
**32	M-24609-2	Ring - Hand Wheel Brkt. Clamping	1
33	WL-3-48	Lock Washer - 5/16" High Collar	4
34	SC-11-95	Mach. Screw - 5/16"-18 x 1" Fil. Hd	4
35	P-24765	Handle - Bowl Lift Hand Wheel	1
36	R-78181	Hand Wheel & Handle Assy. (Incls. item #35)	1
37	M-24191	Shaft - Hand Wheel	1
38	PG-7-19	Groov-Pin - Type E, 1/4" x 2-3/4"	1
39	M-89684	Hand Wheel Bracket & Bearing Assy	1
40	RP-2-6	Rollpin - 1/4" Dia. x 1" Lg	2
41	OG-3-47	Oiler - Special	1
42	M-24196	Pinion - Bowl Lift Miter (23T)	1
43	R-12430-47	Key	1
44	M-24192	Gear - Bowl Lift Screw (41T)	1
45	KW-3-3	Key - #404 Woodruff	1
46	M-24195	Gear - Bowl Lift Miter (23T)	1
47	RR-5-2	Retaining Ring (Spirolox)	1
48	NS-32-29	Stop Nut - 1/2"-20 "Flexloc"	1
49	M-24193	Gear - Bowl Lift Screw (31T)	1
50	NS-34-4	Lock Nut - N.D. #N-03	1
51	WL-12-4	Lock Washer - N.D. #W-03	1
52	WS-10-17	Washer	1
53	WS-10-17	Washer	2
54	B-122925-1	Screw - Stop	1
55	NS-17-14	Jam Nut - 3/8"-16 Hex Fin	1
56	R-12430-43	Key	1

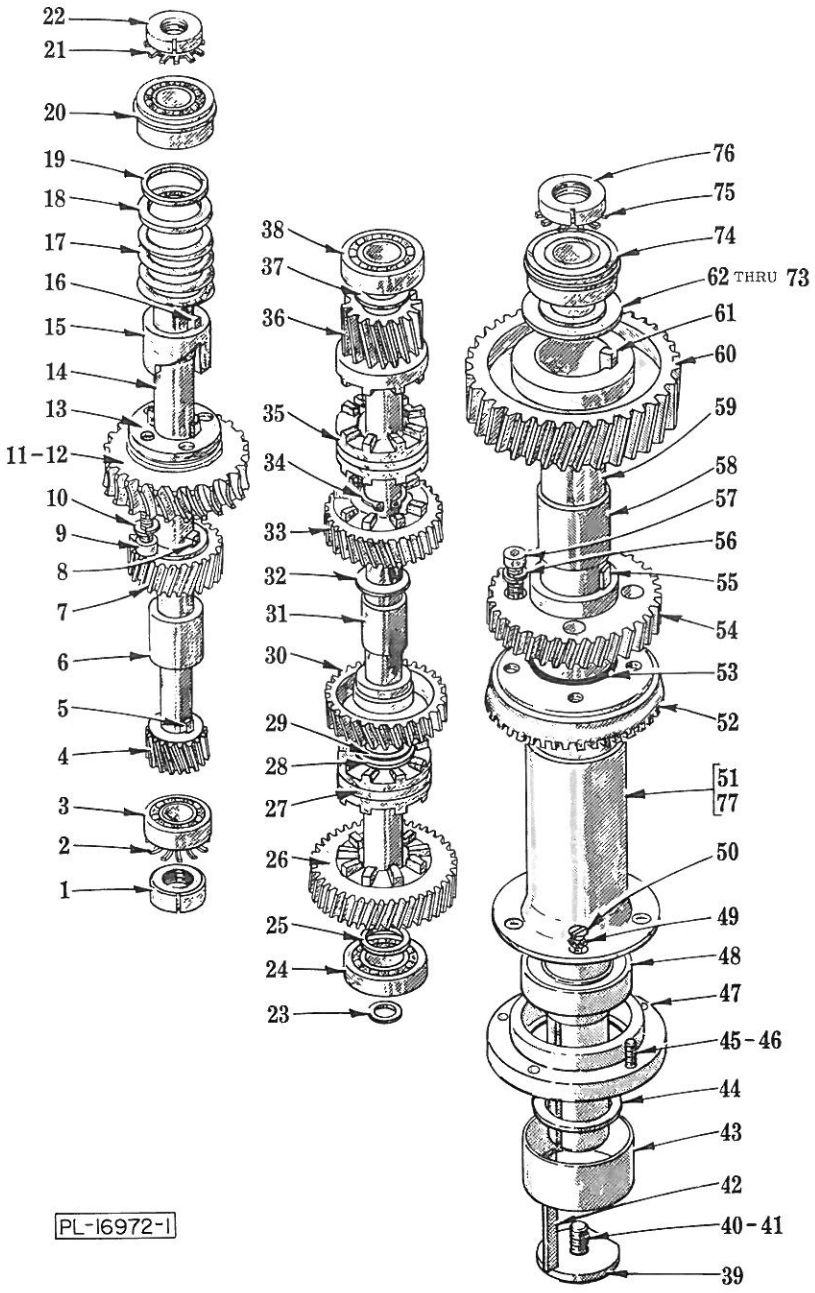
*H-600 & H-600-T.
**H-600-D & H-600-DT.



POWER BOWL LIFT UNIT

POWER BOWL LIFT UNIT

ILLUS. PL-15342	PART NO.	NAME OF PART	AMT.
1	NS-35-17	Special Nut - 9/16"-18 "Palnut"	1
2	B-120098	Detent Plate & Hub Assy	1
3	BA-2-18	Ball - 3/8" Dia	6
4	M-64616	Spring - Detent (12 lb.) (Holes nearest drive screws)	3
5	V-7009	Spring - Detent (6 lb.)	3
6	C-120097	Pulley Assy. (20T)	1
7	M-64405	Collar - Input Shaft	1
8	NS-34-4	Lock Nut - N.D. #N-03	1
9	WL-12-4	Lock Washer - N.D. #W-03	1
10	BB-5-30	Ball Bearing - N.D. #Z99503	1
11	M-64558	Washer - Thrust	1
12	BN-2-18	Needle Bearing - Torrington #NTA-1423	1
13	M-64558	Washer - Thrust	1
14	D-120094	Screw - Lift	1
15	B-120096	Retainer - Lift Nut	1
16	B-120095	Nut - Bowl Lift Screw	1
17	ML-31439	Motor (Give Elec. Spec.)	1
18	KW-3-1	Key - #304 Woodruff	1
19	B-120053	Seal - Oil	1
20	D-11800-283	Dowel	2
21	D-120051	Gear Case Assy. (Incls. items #19, 20, 25, 46 & 47)	1
22	B-120100	Nut - Vibration Mount	4
23	WS-4-39	Washer	4
24	SC-36-7	Fin. Bolt - 1/4"-20 x 1-1/8" Hex Hd	4
25	M-64641	Bearing - Gear Box	1
26	SC-40-4	Cap Screw - #10-32 x 3/4" Soc. Hd	4
27	WL-3-22	Lock Washer - #10 Light	4
28	C-120080	Gear - Internal (64T)	1
29	RP-2-25	Rollpin - 1/8" Dia. x 7/8" Lg	1
30	C-120079	Hub - Gear	1
31	KW-3-3	Key - #404 Woodruff	1
32	BB-5-19	Ball Bearing - Fafnir #H202PP	1
33	KW-3-1	Key - #304 Woodruff	1
34	PS-4-9	Spirol Pin - 3/16" Dia. x 1" Lg	1
35	D-120084	Cover - Gear Case	1
36	WL-3-36	Lock Washer - 1/4" Light	4
37	SC-36-4	Fin. Bolt - 1/4"-20 x 3/4" Hex Hd	4
38	C-116634	Belt - Timing	1
39	RR-8-6	Retaining Ring	1
40	B-120086	Drive Pulley Assy. (14T)	1
41	C-120083	Shaft - Transmission	1
42	SD-12-20	Self-Tapping Screw - #8-32 x 1/2" Phil. Truss Hd., Type 23	2
43	B-120163	Bracket - Capacitor	1
44	RR-4-17	Retaining Ring	1
45	B-120081	Gear - Motor Pinion (16T)	1
46	D-11800-91	Dowel	2
47	V-24670	Insulator - Fiber	1
48	FE-21-14	Bushing - Snap	1
49	B-121319	Switch & Label Assy	1
50	RP-2-33	Rollpin - .094" Dia. x 1" Lg	1
51	B-120105	Grommet	1
52	B-120108	Hub - Switch	1
53	M-77401	Knob - Switch Control	1
54	B-120107	Handle - Switch	1
55	SC-40-7	Cap Screw - 1/4"-20 x 5/8" Soc. Hd	2
56	WL-3-36	Lock Washer - 1/4" Light	2
57	NS-13-1	Full Nut- 1/4"-20 Hex Fin	2
58	B-120109	Plate - Switch Mounting	1
59	WL-3-36	Lock Washer - 1/4" Light	2
60	SC-36-2	Fin. Bolt - 1/4"-20 x 1/2" Hex Hd	2
61	SC-36-25	Fin. Bolt - 5/16"-18 x 3/4" Hex Hd	4
62	WL-3-43	Lock Washer - 5/16" Light	4



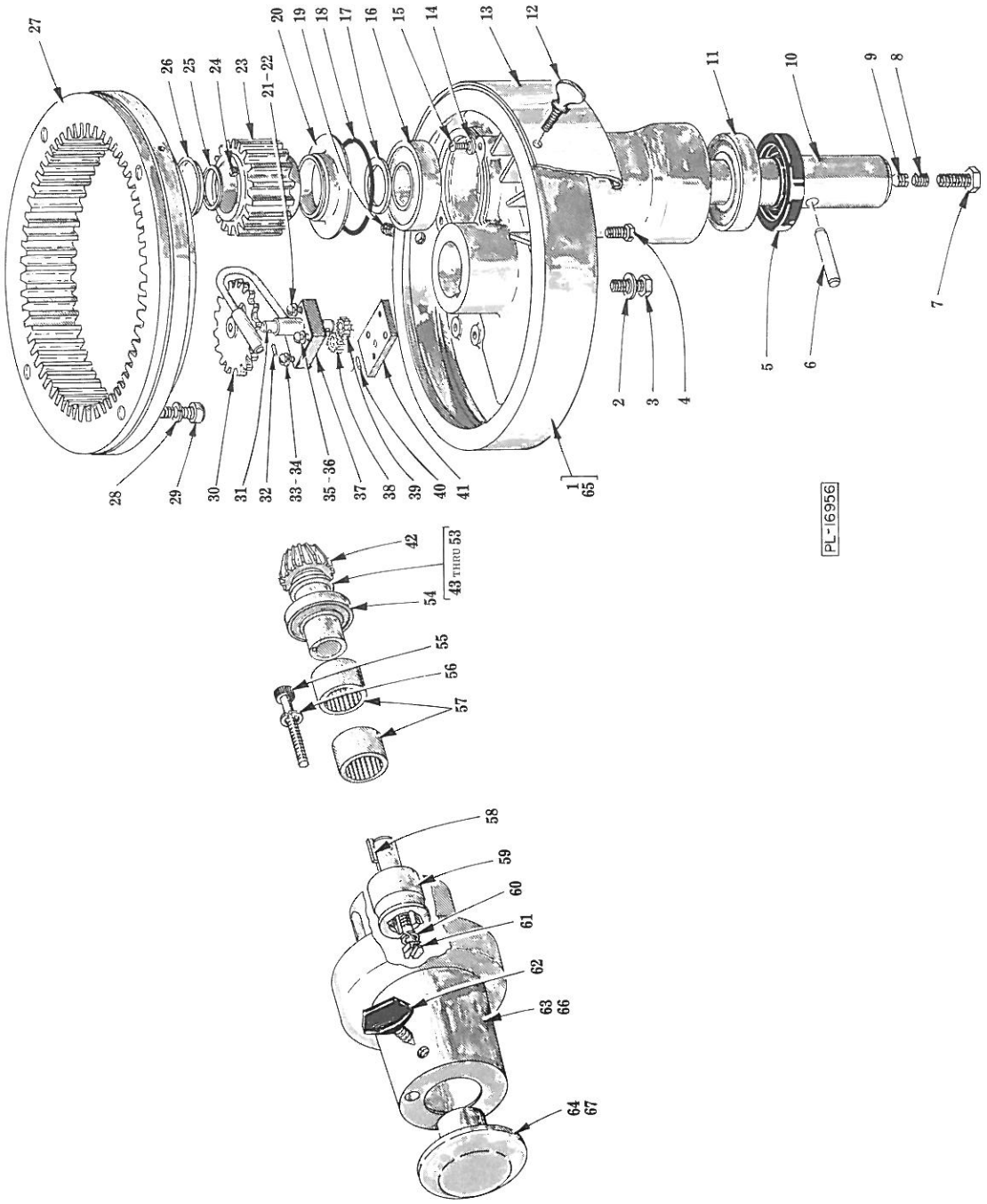
TRANSMISSION UNIT

ILLUS. PL-16972-1	PART NO.	NAME OF PART	AMT.
1	NS-34-5	Lock Nut - N.D. #N-04	1
2	WL-12-5	Lock Washer - N.D. #W-04	1
3	BB-12-7	Ball Bearing - SKF #1204 Self-Alignment	1
4	C-121382	Gear - Lower Worm Shaft (17T)	1
5	R-12430-53	Key	1
6	M-24206	Spacer - Worm Gear Shaft	1
7	M-24207	Gear - Upper Worm Shaft (25T)	1
8	R-12430-51	Key	1
9	SC-40-8	Cap Screw - 1/4"-20 x 1" Soc. Fil Hd	4
10	WL-3-37	Lock Washer - 1/4" Medium	4
11	P-24735	Worm Gear (31T, 60 Hz.)	1
12	P-24288	Worm Gear (26T, 50 Hz.)	1
13	P-61497	Flange - Shock Absorber Drive	1
14	R-24204	Shaft - Worm Gear	1
15	P-61498	Compressor - Shock Absorber	1

TRANSMISSION UNIT (Cont.)

ILLUS. PL-16972-1	PART NO.	NAME OF PART	AMT.
16	V-24546	Key - Compressor to Shaft	1
17	M-9733	Spring - Worm Shaft	1
18	M-24238	Washer - Shock Absorber	1
19	RR-5-10	Retaining Ring (Spirolox)	1
20	BB-9-37	Ball Bearing - N.D. #45504V	1
21	WL-12-5	Lock Washer - N.D. #W-04	1
22	NS-34-5	Lock Nut - N.D. #N-04	1
23	RR-5-4	Retaining Ring (Spirolox)	1
24	BB-18-33	Ball Bearing - Fafnir #205K	1
25	M-24210	Spacer - Clutch Shaft	1
26	P-24539	Lower Clutch and Lower Gear Assy. (49T)	1
27	P-24213	Clutch - Shifting	1
28	RR-4-13	Retaining Ring (Truarc)	1
29	M-60767	Washer - Clutch Shaft	1
30	P-24538	Lower Clutch and Upper Gear Assy. (41T)	1
31	R-24209	Shaft - Clutch	1
32	M-24216	Washer - Clutch Shaft	1
33	P-24537	Upper Clutch and Lower Gear Assy. (33T)	1
34	RR-4-13	Retaining Ring (Truarc)	1
35	P-24213	Clutch - Shifting	1
36	P-24545	Upper Clutch and Upper Gear Assy. (17T)	1
37	M-24210	Spacer - Clutch Shaft	1
38	BB-18-33	Ball Bearing - Fafnir #205K	1
39	M-24266-1	Washer - Planetary	1
40	SC-62-58	Fin. Bolt - 3/8"-24 x 1-1/4" Hex Hd	1
41	WL-6-27	Lock Washer - 3/8" Light	1
42	R-12430-195	Key	1
43	M-60486	Shield - Planetary Oil	1
44	M-24543	Washer - Planetary Spacer	1
*45	SC-40-14	Cap Screw - 5/16"-18 x 3/4" Soc. Fil. Hd	5
*46	WL-3-48	Lock Washer - 5/16" High Collar	5
*47	P-68226	Carrier - Lower Bearing	1
48	BB-15-26	Ball Bearing - Fafnir #P9109PP	1
49	WL-9-8	Lock Washer - 1/4" Csk. Ext. Shakeproof	5
50	SC-13-79	Mach. Screw - 1/4"-20 x 1/2" Flat Hd	5
*51	C-121478-2	Chimney	1
52	P-61727	Gear - Spiral Bevel (41T)	1
53	D-67500-19	"O" Ring - Bevel Gear	1
54	P-24223	Gear - Planetary Shaft Lower (35T)	1
55	R-12430-211	Key	1
56	WL-3-48	Lock Washer - 5/16" High Collar	4
57	SC-40-15	Cap Screw - 5/16"-18 x 1-1/4" Soc. Fil. Hd	4
58	M-24224	Spacer - Planetary Shaft	1
59	S-24222	Shaft - Planetary	1
60	P-24225	Gear - Upper Planetary Shaft (53T)	1
61	R-12430-210	Key	1
62	M-24226-1	Shim - Planetary Shaft (.141" Thk.)	AR
63	M-24226-2	Shim - Planetary Shaft (.144" Thk.)	AR
64	M-24226-3	Shim - Planetary Shaft (.147" Thk.)	AR
65	M-24226-4	Shim - Planetary Shaft (.150" Thk.)	AR
66	M-24226-5	Shim - Planetary Shaft (.153" Thk.)	AR
67	M-24226-6	Shim - Planetary Shaft (.156" Thk.)	AR
68	M-24226-7	Shim - Planetary Shaft (.159" Thk.)	AR
69	M-24226-8	Shim - Planetary Shaft (.162" Thk.)	AR
70	M-24226-9	Shim - Planetary Shaft (.165" Thk.)	AR
71	M-24226-10	Shim - Planetary Shaft (.168" Thk.)	AR
72	M-24226-11	Shim - Planetary Shaft (.171" Thk.)	AR
73	M-24226-12	Shim - Planetary Shaft (.174" Thk.)	AR
74	BB-9-48	Ball Bearing - MRC #5206KFFG	1
75	WL-12-7	Lock Washer - N.D. #W-06	1
76	NS-34-7	Lock Nut - N.D. #N-06	1
**77	C-121478-1	Chimney	1
	R-89673-1	Worm Gear & Shaft Assy. (60 Hz.) (Incls. items #1 thru 11 & 13 thru 19)	1
	R-89673-2	Worm Gear & Shaft Assy. (50 Hz.) (Incls. items #1 thru 10 & 13 thru 19)	1

*H-600-D & H-600-DT.
**H-600 & H-600-T.



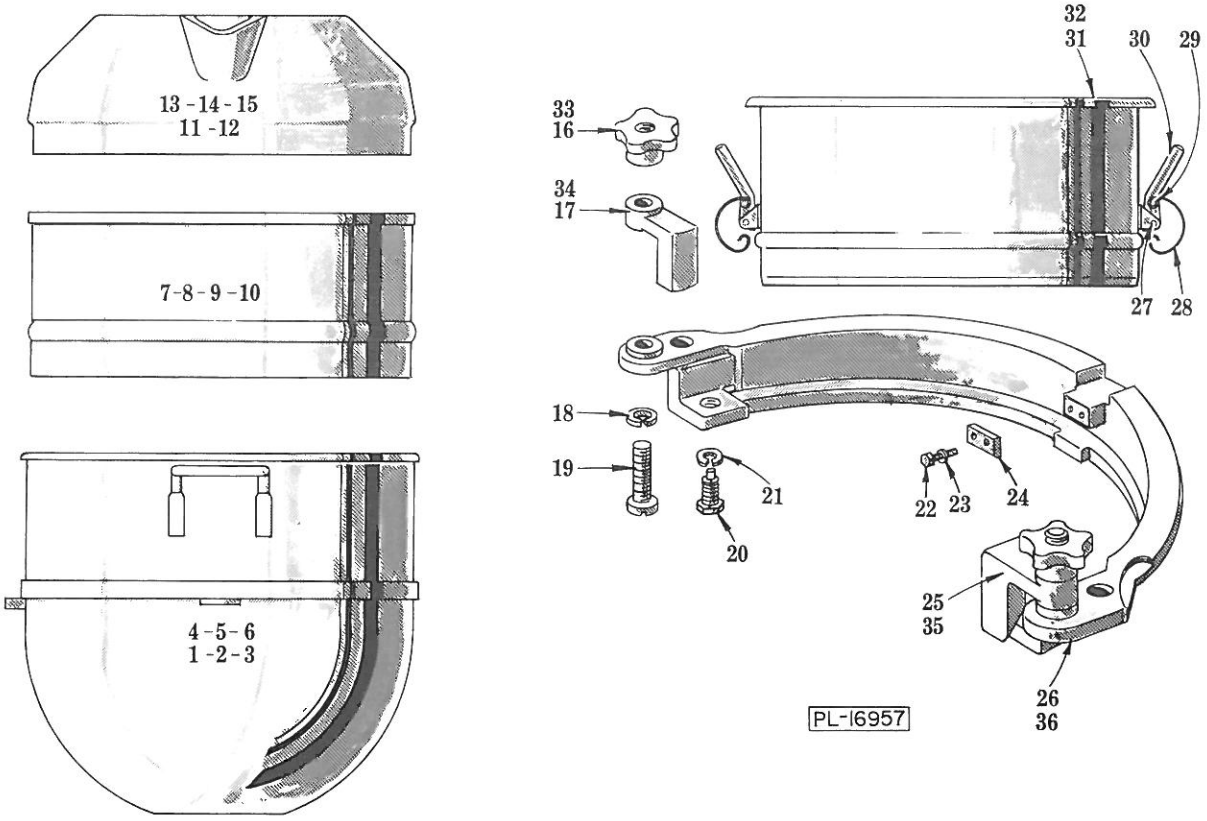
PLANETARY AND ATTACHMENT HUB UNIT

ILLUS. PL-16956	PART NO.	NAME OF PART	AMT.
*1	T-24265-1	Planetary	1
2	WS-21-21	Washer	1
3	SC-62-60	Fin. Bolt - 1/2"-20 x 1" Hex Hd	1
4	SC-62-80	Fin. Bolt - 3/8"-16 x 5/8" Hex Hd	2
5	M-24651	Seal - Planetary	1
6	V-111156	Pin - Agitator Shaft	1
7	M-64723	Plug Screw - Agitator Shaft	1
8	SC-47-41	Set Screw - 3/8"-16 x 3/8" Soc. Hdls., Cup Pt	1

PLANETARY AND ATTACHMENT HUB UNIT (Cont.)

ILLUS. PL-16956	PART NO.	NAME OF PART	AMT.
9	V-7744	Set Screw - Hdls., Cone Pt	1
10	M-64137	Agitator Shaft Assy. (Incls. items #6 thru 9)	1
11	BB-7-39	Ball Bearing - MRC #207-SZZ	1
12	P-70641-11	Thumb Screw - #8-32	2
13	R-60458	Cup - Drip	1
14	WS-3-23	Washer	2
15	SC-8-65	Mach. Screw - 1/4"-20 x 3/8" Rd. Hd	2
16	BB-6-36	Ball Bearing - MRC #306-SZZ	1
17	M-60768	Shim - Internal Pinion	AR
18	D-67500-21	"O" Ring	1
19	FP-28-38	Plug - 3/8" Hex Socket Pipe	1
20	M-73010	Oil Baffle - Planetary	1
21	SC-9-50	Mach. Screw - #10-32 x 3/4" Rd. Hd	1
22	WL-3-22	Lock Washer - #10 Light	1
23	P-24270	Pinion - Internal (18T)	1
24	R-12430-154	Key	1
25	RR-5-8	Retaining Ring (Spirolox)	1
26	M-60071	Cap - Oil Retaining	1
27	R-61580	Gear - Internal (59T)	1
28	WL-4-1	Lock Washer - 3/8" High Collar	4
29	SC-40-23	Cap Screw - 3/8"-16 x 1-1/4" Soc. Fil. Hd	4
30	M-60467	Conveying Gear Assy. (18T)	1
31	M-60444	Shaft - Oil Pump	1
32	RP-2-8	Rollpin - 5/64" Dia. x 11/16" Lg	1
33	SC-9-39	Mach. Screw - #8-32 x 3/4" Rd. Hd	1
34	WL-3-15	Lock Washer - #8 Light	1
35	SC-9-51	Mach. Screw - #10-32 x 7/8" Rd. Hd	2
36	WL-3-22	Lock Washer - #10 Light	2
37	C-123679	Housing & Tube Assy	1
38	C-290277	Gear - Oil Pump (15T)	1
39	C-290276	Gear - Oil Pump (15T)	1
40	RP-6-5	Rollpin - 1/16" Dia. x 3/8" Lg	1
41	M-60443	Plate - Oil Pump Bottom	1
42	P-61914	Bevel Pinion (16T)	1
43	M-61920-1	Shim - Bevel Pinion (.076" Thk.)	AR
44	M-61920-2	Shim - Bevel Pinion (.079" Thk.)	AR
45	M-61920-3	Shim - Bevel Pinion (.082" Thk.)	AR
46	M-61920-4	Shim - Bevel Pinion (.085" Thk.)	AR
47	M-61920-5	Shim - Bevel Pinion (.088" Thk.)	AR
48	M-61920-6	Shim - Bevel Pinion (.091" Thk.)	AR
49	M-61920-7	Shim - Bevel Pinion (.094" Thk.)	AR
50	M-61920-8	Shim - Bevel Pinion (.097" Thk.)	AR
51	M-61920-9	Shim - Bevel Pinion (.100" Thk.)	AR
52	M-61920-10	Shim - Bevel Pinion (.103" Thk.)	AR
53	M-61920-11	Shim - Bevel Pinion (.107" Thk.)	AR
54	BB-13-3	Ball Bearing - Nice #618	1
55	SC-40-50	Cap Screw - 5/16"-18 x 2-1/4" Soc. Fil. Hd	4
56	WL-3-44	Lock Washer - 5/16" Medium	4
57	BN-2-6	Needle Bearing (Torrington B-2212)	2
58	R-12430-42	Key	1
59	P-61506	Sleeve - Square Drive	1
60	WL-3-44	Lock Washer - 5/16" Medium	1
61	M-61279	Screw - Spiecal (L.H. Thread)	1
62	C-108197-1	Thumb Screw Assy	1
*63	R-61894-3	Hub - Attachment	1
*64	C-114824-4	Plug - Attachment Hole	1
**65	T-24265-2	Planetary	1
**66	R-61894-2	Hub - Attachment	1
**67	C-114824-6	Plug - Attachment Hole	1
	P-290230	Planetary Oil Pump Assy. (Incsl items #21, 22, 30, 31, 32, 33, 34, 37, 38, 39, 40 & 41)	1
	*P-61919-1	Complete Attachment Hub Assy. (Incls. items #42 thru 61 & 63)	1
	**P-61919-2	Complete Attachment Hub Assy. (Incls. items #42 thru 61 & 66)	1
	*C-115155-3	Attachment Hub Assy. (Incls. items #42, 57 thru 61 & 63)	1
	**C-115155-2	Attachment Hub Assy. (Incls. items #42, 57 thru 61 & 66)	1
	*P-89669-1	Planetary Assy. (Incls. items #1, 4, 5, 10, 11, 14 thru 20, 23, 24, 25, 26 & M-60486)	1
	**P-89669-2	Planetary Assy. (Incls. items #4, 5, 10, 11, 14 thru 20, 23, 24, 25, 26, 65 & M-60486)	1

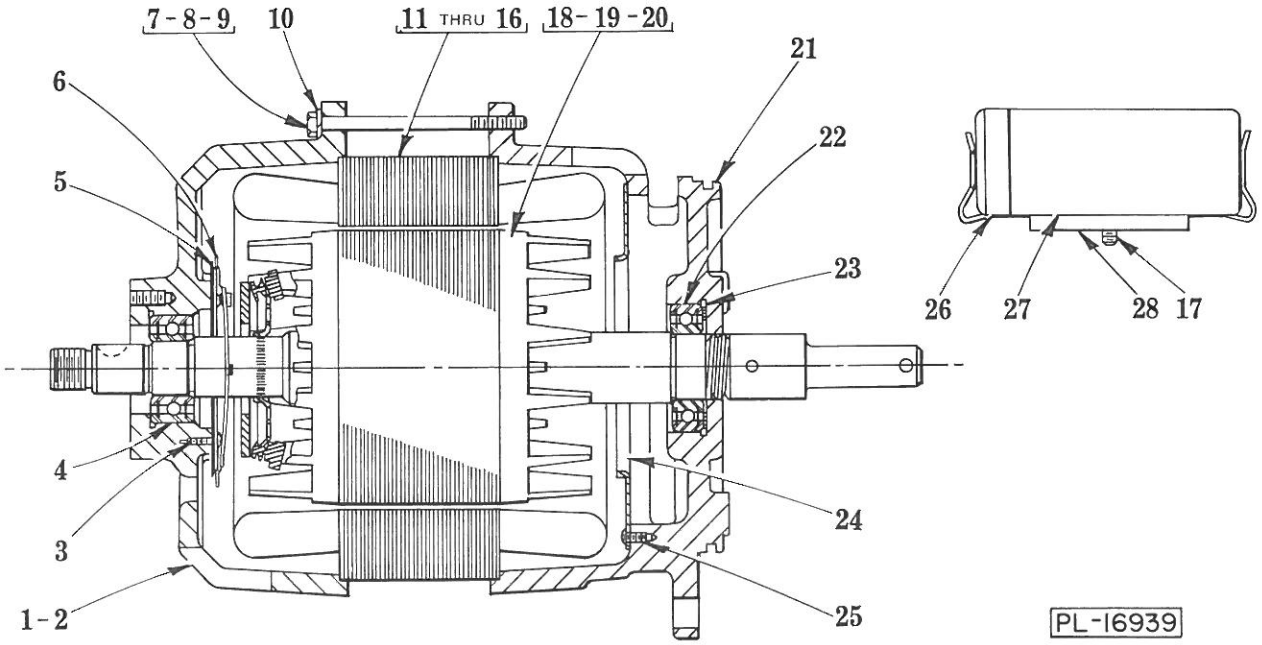
*H-600 & H-600-T.
**H-600-D & H-600-DT.



BOWLS AND EQUIPMENT

BOWLS AND EQUIPMENT

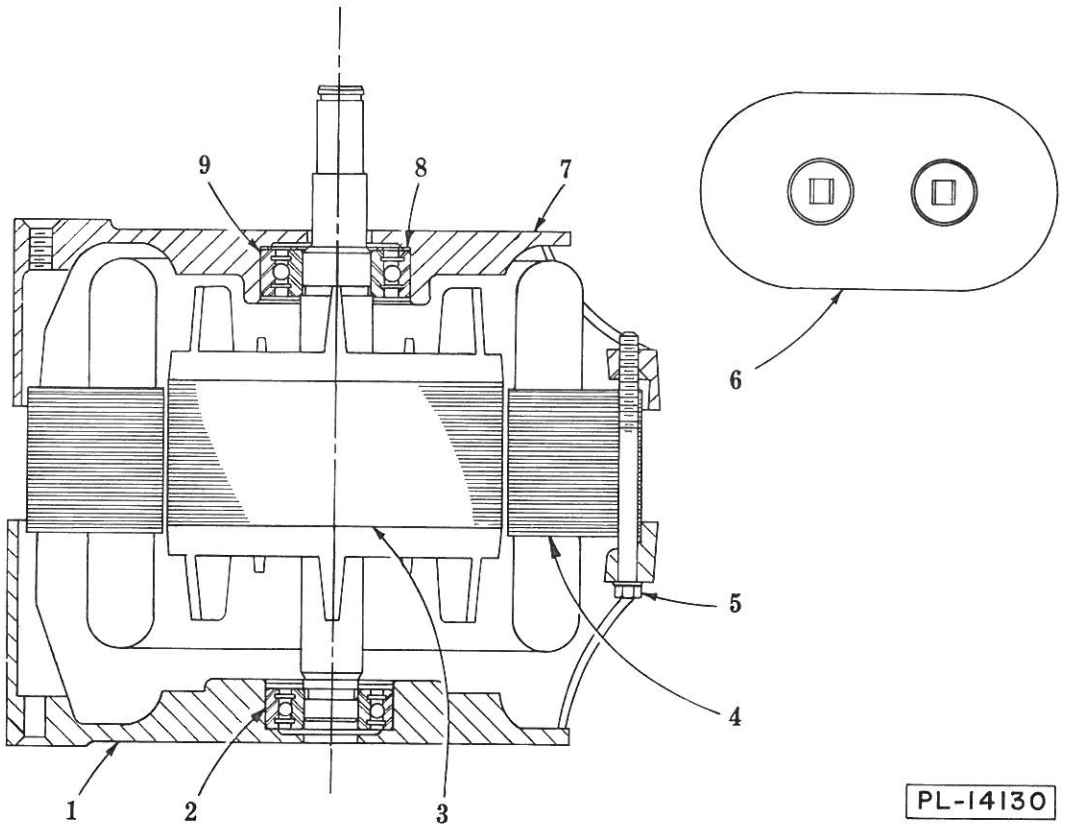
ILLUS. PL-16957	PART NO.	NAME OF PART	AMT.
1	S-66462	Bowl - 60 Qt. (SST)	1
2	S-66461	Bowl - 60 Qt. (Tinned)	1
3	D-104433	Bowl - 40 Qt. (SST)	1
4	D-104432	Bowl - 40 Qt. (Tinned)	1
5	D-104416	Bowl - 30 Qt. (SST)	1
6	D-104415	Bowl - 30 Qt. (Tinned)	1
7	D-7985-2	Extension - 40 Qt. Bowl (SST)	1
8	D-7985-1	Extension - 40 Qt. Bowl (Tinned)	1
9	D-6474-2	Extension - 30 Qt. Bowl (SST)	1
10	D-6474-1	Extension - 30 Qt. Bowl (Tinned)	1
11	E-104681	Cover - Splash (60 Qt.) (Plastic)	1
12	S-82443-4	Splash Cover Assy. - 40 Qt. (SST)	1
13	S-82443-3	Splash Cover Assy. - 40 Qt. (Tinned)	1
14	S-82443-2	Splash Cover Assy. - 30 Qt. (SST)	1
15	S-82443-1	Splash Cover Assy. - 30 Qt. (Tinned)	1
16	M-8101-2	Knob - Clamp Stud (Deluxe)	2
17	M-24845-2	Clamp - Adapter (60-40 Qt. & 60-30 Qt., L.H.) (Deluxe)	1
18	WL-4-11	Lock Washer - 1/2" Medium	2
19	M-22196	Bolt - Bowl Lock	2
20	M-24846	Stud - Bowl Locating	2
21	WL-4-17	Lock Washer - 5/8" Light	2
22	SC-62-38	Fin. Bolt - 1/4"-20 x 5/8" Hex Hd	2
23	WL-3-38	Lock Washer - 1/4" Medium	2
24	M-24301	Retainer - Bowl	1
25	M-60222-2	Clamp - Adpater (60-40 Qt. & 60-30 Qt., R.H.) (Deluxe)	1
26	S-65790-2	Adapter - Bowl (60-40 Qt. & 60-30 Qt.) (Deluxe)	1
27	RP-2-35	Rollpin - 3/16" Dia. x 5/8" Lg	2
28	P-62234-2	Spring - Clamp (60 Qt.) (Flange Top Bowl)	2
29	RP-2-7	Rollpin - 3/16" Dia. x 1-1/8" Lg	2
30	M-11881	Handle - Clamp (60 Qt.)	2
31	S-8569-6	Extension - 60 Qt. Bowl (Tinned) (Flange Top Bowl) (Incls. items #27 thru 30)	1
32	S-8569-8	Extension - 60 Qt. Bowl (SST) (Flange Top Bowl) (Incls. items #27 thru 30)	1
33	M-8101-1	Knob - Clamp Stud (Tinned)	2
34	M-24845-1	Clamp - Adapter (60-40 Qt. & 60-30 Qt., L.H.) (Tinned)	1
35	M-60222-1	Clamp - Adapter (60-40 Qt. & 60-30 Qt., R.H.) (Tinned)	1
36	S-65790-1	Adapter Bowl (60-40 Qt. & 60-30 Qt.) (Tinned)	1
	C-62087-2	Bowl Adapter Assy. Unit (SST) (60-40 Qt. & 60-30 Qt.) (Incls. items #16 thru 26)	1
	C-62087-1	Bowl Adapter Assy. Unit (Tinned) (60-40 Qt. & 60-30 Qt.) (Incls. items #18 thru 24 & 33 thru 36)	1



MOTOR UNIT

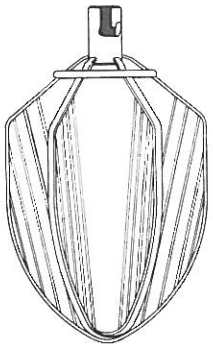
ILLUS. PL-16939	PART NO.	NAME OF PART	AMT.
*1	E-119537-2	Bracket - Bearing (Switch End)	1
**2	E-119537-1	Bracket - Bearing (Switch End)	1
*3	SC-9-49	Mach. Screw - #6-32 x 3/8" Rd. Hd	2
4	BB-16-23	Ball Bearing - Fafnir #W205 PP	1
*5	C-121111	Insulator - Switch	1
*6	C-121110	Switch - Starting (Stationary Part)	1
*7	SC-111-34	Fin. Bolt - 1/4"-20 x 4" Hex Hd. (60 Hz.)	4
*8	SC-111-2	Fin. Bolt - 1/4"-20 x 4-1/2" Hex Hd (50 Hz.)	4
**9	SC-111-33	Fin. Bolt - 1/4"-20 x 3-1/2" Hex Hd	4
10	WL-3-38	Lock Washer - 1/4" Medium	4
11	D-65477-136-2	Stator Assy. (115/230 V., 60 Hz., 1 Ph.)	1
12	D-65477-136-4	Stator Assy. (200 V., 60 Hz., 1 Ph.)	1
13	D-65477-136-6	Stator Assy. (115/220 V., 50 Hz., 1 Ph.)	1
14	D-65478-130-3	Stator Assy. (200 V., 60 Hz., 3 Ph.)	1
15	D-65478-130-4	Stator Assy. (230/460 V., 60 Hz., 3 Ph.)	1
16	D-65478-131-2	Stator Assy. (220/380 V., 50 Hz., 3 Ph.)	1
*17	SC-14-57	Mach. Screw - #10-24 x 1/2" Flat Hd	2
*18	C-22275-225	Rotor Assy. (60 Hz.)	1
*19	C-22275-224	Rotor Assy. (50 Hz.)	1
**20	C-15747-294	Rotor Assy	1
21	E-119538-1	Bracket - Bearing (Gear End)	1
22	BB-17-26	Ball Bearing - N.D. #Z99506	1
23	SL-3-10	Loading Spring - N.D. #62	1
24	C-120864	Baffle - Air	1
25	SC-9-70	Mach. Screw - #6-32 x 1/4" Rd. Hd	3
*26	C-70486-3	End Cap - Capacitor	1
*27	D-70487-9	Capacitor	1
*28	P-66621-2	Bracket - Capacitor	1

*1 Ph.
**3 Ph.

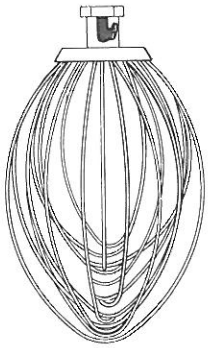


MOTOR UNIT
(POWER BOWL LIFT)

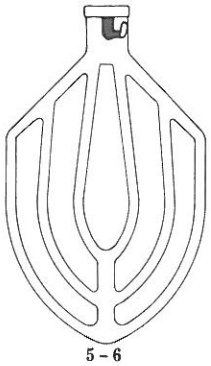
ILLUS. PL-14130	PART NO.	NAME OF PART	AMT.
1	E-111835-1	Bracket - Bearing	1
2	BB-18-12	Fafnir #P 201KDD	1
3	C-22275-218	Rotor Assy	1
4	D-65477-130-1	Stator Assy	1
5	M-101233-2	Bolt - Special	4
6	C-120359-1	Capacitor	1
7	D-118707	Bracket - Bearing (Drive End)	1
8	SL-2-10	Loading Spring - N. D. #S-17-A	1
9	BB-20-18	Ball Bearing - N. D. #77503	1



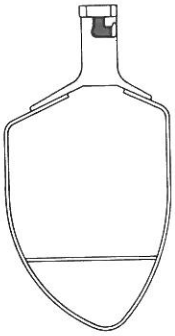
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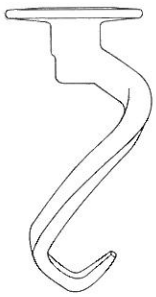
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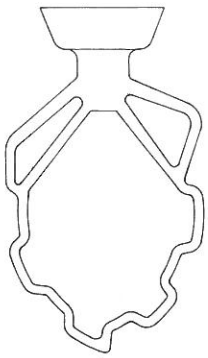


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PL-15998



9

AGITATORS

ILLUS. PL-15998	PART NO. 60 Qt.	PART NO. 40 Qt.	PART NO. 30 Qt.	NAME OF PARTS	AMT.
1	D-123486	D-123682	–––	"C" Six Wing Whip	1
2	–––	–––	D-123714	"C" Four Wing Whip (Not Shown)	1
3	S-24900-2	S-23591-2	R-10327-2	"D" Wire Whip (SST)	1
4	–––	–––	R-10327-1	"D" Wire Whip (Tinned)	1
5	S-24308-2	S-24847	S-60052-2	"B" Flat Beater (SST)	1
6	S-24308-1	T-23620	S-60052-1	"B" Flat Beater (Alum.)	1
7	S-68096	S-68095	R-68822	"P" Pastry Knife	1
8	E-121071	–––	–––	"ED" Dough Arm - Spiral	1
9	S-600-69	R-8400	R-10326	"S" Sweet Dough Arm	1
	R-60090	S-60132-2	R-72871	"I" Wire Whip (Not Shown)	1
	–––	S-80693	S-72858	"E" Dough Arm (Not Shown)	1