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# Leslie®

SPEAKERS

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models  
122 - 147

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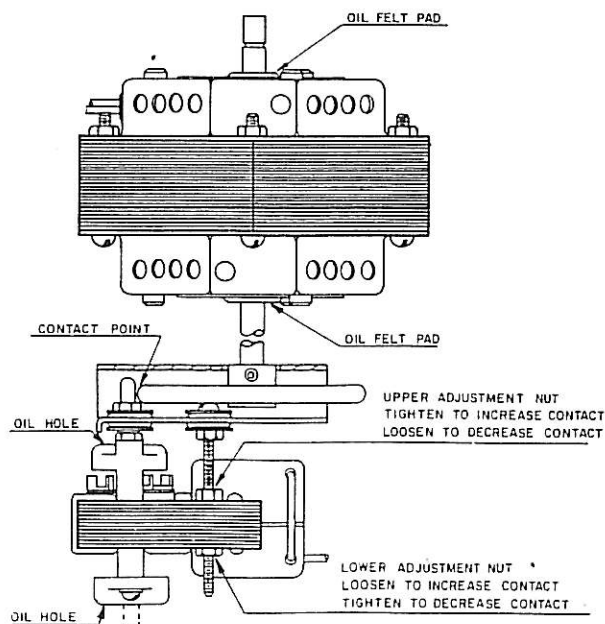
Service Information  
Parts List

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## MAJOR COMPONENTS

|                                                                                                                |              | Model<br>122 | Model<br>147 |
|----------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|
| Power Amplifier                                                                                                | 117V 50/60Hz | 036616       | 050039       |
|                                                                                                                | 220V 50Hz    | 036624       | 052969       |
|                                                                                                                | 240V 50Hz    | 053256       | 052977       |
|                                                                                                                | 100V 50/60Hz | 137009       | 137011       |
| <div> <div>These part</div> <div>numbers</div> <div>apply to both</div> <div>Models 122 &amp; 147</div> </div> |              |              |              |
| Upper (treble)                                                                                                 | 117V 60Hz    | 140019       |              |
| Motor Assembly                                                                                                 | 117V 50Hz    | 140020       |              |
|                                                                                                                | 220V 50Hz    | 140020       |              |
|                                                                                                                | 240V 50Hz    | 140020       |              |
|                                                                                                                | 100V 60Hz    | 140021       |              |
|                                                                                                                | 100V 50Hz    | 140022       |              |
| Lower (bass)                                                                                                   | 117V 60Hz    | 037564       |              |
| Motor Assembly                                                                                                 | 117V 50Hz    | 045898       |              |
|                                                                                                                | 220V 50Hz    | 045898       |              |
|                                                                                                                | 240V 50Hz    | 045898       |              |
|                                                                                                                | 100V 60Hz    | 137023       |              |
|                                                                                                                | 100V 50Hz    | 137022       |              |
| Crossover                                                                                                      |              | 113860       |              |
| Speaker (treble) and Spindle Assembly                                                                          |              | 138681       |              |
| Horn Assembly                                                                                                  |              | 050807       |              |
| Speaker (bass), 15-in, 16 ohm                                                                                  |              | 052308       |              |
| Rotor (bass), foam, 17 x 9                                                                                     |              | 137588       |              |

## MOTOR OILING AND ADJUSTMENT



## VOLUME ADJUSTMENT

The volume level should be set on the basis of maximum demand, avoiding distortion or overload, as follows:

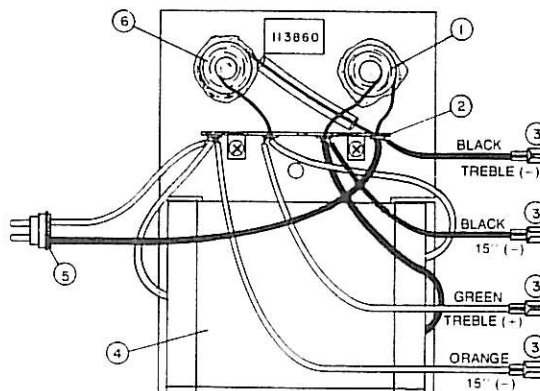
1. Use "full organ" registration, that is, with all stops in use and with the swell pedal at maximum. Play a full chord and a single note.
2. Advance the volume control on the amplifier from a minimum position up to a point where some distortion can be heard.
3. Back off the volume control setting just far enough to eliminate all distortion. This is the correct setting for maximum undistorted loudness, and usually no further adjustment will be necessary. (Distortion, when continuous, can seriously damage speaker components.)

## LOAD RESISTOR SETTING (Model 147 only)

The console load resistor switch is located on the rotor amplifier chassis. This switch provides a load of the correct impedance for the console power amplifier when the console speakers are not operating. The correct load resistance is indicated in the installation instructions for the console connector kit used.

If you do not know the correct console load impedance, the switch may be set by the following procedure:

1. Set the Echo Control on "Echo", and the load resistor switch at "8".
2. Turn all the console stops on, set the swell pedal at maximum, and play a full chord and a single pedal note.
3. While sounding this chord, advance the volume control until some distortion occurs.
4. Switch the Echo control back and forth from "Echo" to "Main" and compare the speaker volume to the console volume. If the speaker volume is greater than the console volume, load resistance is satisfactory. If it is not, repeat the above procedure with the load resistor switch set at "16" and "Open." Choose the switch position which gives the greatest volume from the speaker without distortion. The volume control should be set between 6 and 10.



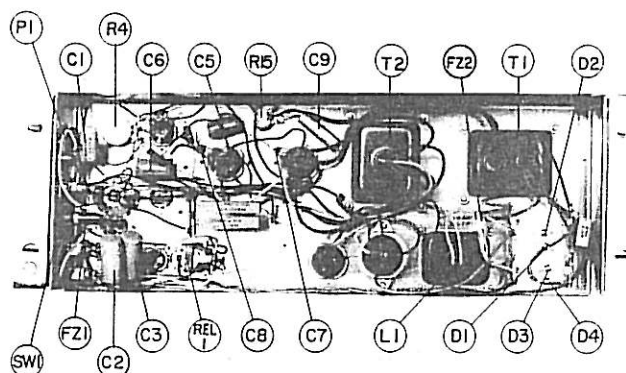
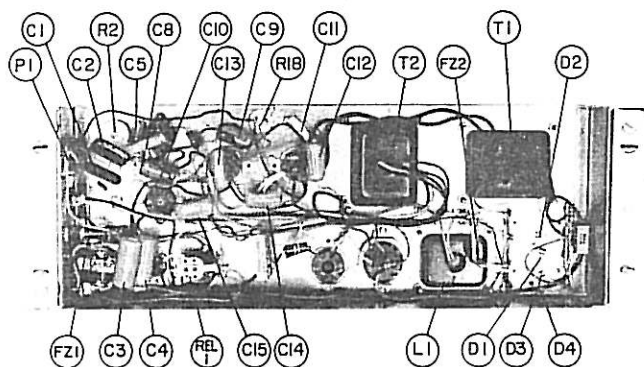
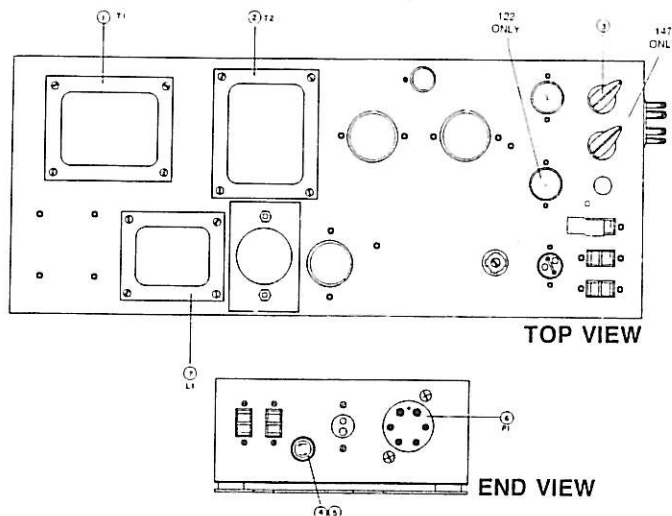
## CROSSOVER ASSEMBLY 113860

| Item | Description                                               | Part No. |
|------|-----------------------------------------------------------|----------|
| 1    | Inductor, 5.2mH (L3)                                      | 052845   |
| 2    | Terminal Strip, 4-lug                                     | 063529   |
| 3    | Connector, tab, female                                    | 029389   |
| 4    | Capacitor, paper, (A) 7.8mfd<br>(B) 12.5mfd, 50V 5% (C16) | 052852   |
| 5    | Cable and Plug Assembly, 2-pin (P7)                       | 052878   |
| 6    | Inductor, 3.2mH (L2)                                      | 052837   |

# AMPLIFIER ASSEMBLY

## MODEL 122 (036616) AND MODEL 147 (050039)

| Item | Description                                | Part No. |
|------|--------------------------------------------|----------|
| 1    | Transformer, power, 117V 50/60Hz (T1)      | 011007   |
|      | Transformer, power, 220/240Hz 50/60Hz (T1) | 011015   |
|      | Transformer, power, 100V 50/60Hz (T1)      | 133630   |
| 2    | Transformer, output (T2)                   | 055103   |
| 3    | Knob, bar, black                           | 020289   |
| 4    | Fuse Holder                                | 055178   |
| 5    | Fuses for 100/117V                         |          |
|      | Normal-Blo, 2-amp (FZ1)                    | 020263   |
|      | Slo-Blo, 1.5-amp, pigtail (FZ3)            | 121250   |
|      | Fuse for 220/240V                          |          |
|      | Slo-Blo, 1-amp, 250V (FZ1)                 | 038158   |
| 6    | Plug, 6-pin (P1)                           | 060442   |
| 7    | Choke, filter (L1)                         | 055111   |
|      | <b>Sockets</b>                             |          |
|      | 2 Contact                                  | 029298   |
|      | 2 Contact, AC                              | 055137   |
|      | 5 Contact                                  | 029652   |
|      | 8 Contact, octal                           | 020137   |
|      | 9 Contact                                  | 033746   |

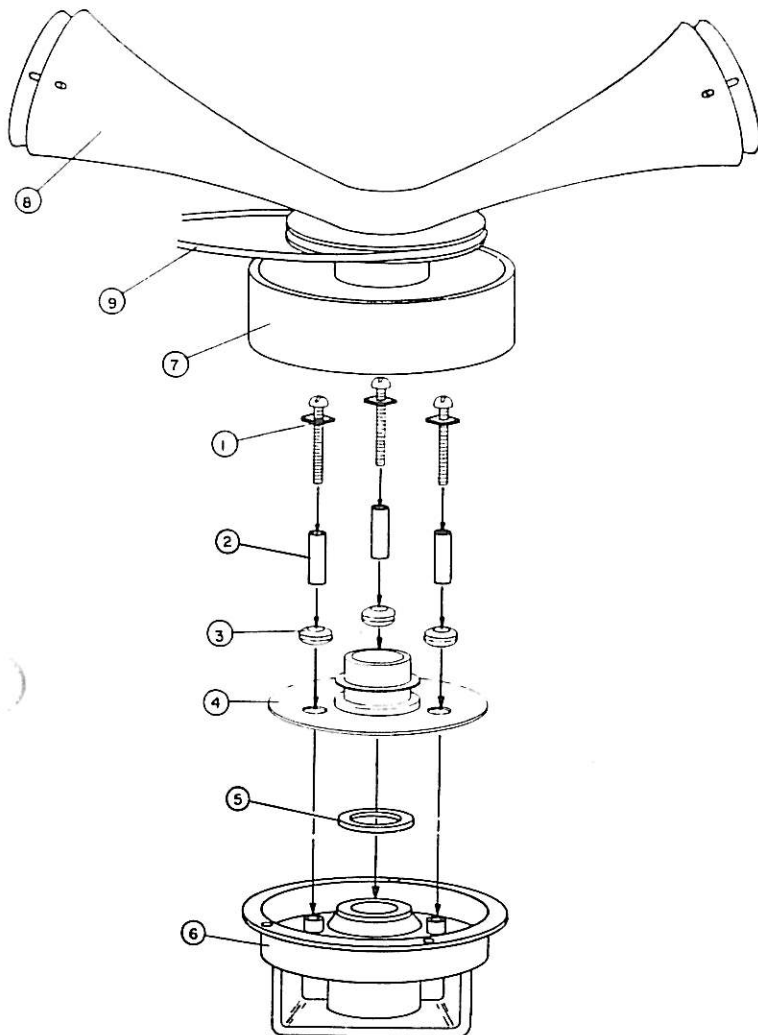


**MODEL 122 POWER AMPLIFIER**  
(Bottom View)

| Item              | Description                        | Part No. |
|-------------------|------------------------------------|----------|
| <b>Capacitors</b> |                                    |          |
| C1, C2            | mylar, .047mfd, 15V                | 026468   |
| C3, C4,           |                                    |          |
| C9, C10           | 0.1mfd, 600V                       | 041145   |
| C5                | electrolytic, 30/30/30/10mfd, 475V | 029892   |
| C6, C8            | mylar, .015mfd, 600V               | 032458   |
| C7                | mica, .001mfd, 500V                | 032409   |
| C11               | electrolytic, 200mfd, 50V          | 020081   |
| C12, C13,         |                                    |          |
| C14, C15          | .0047mfd, 1600V                    | 033399   |
| D1, D2            |                                    |          |
| D3, D4            | Rectifier, silicon 800PIV          | 055228   |
| R2                | Potentiometer, 100K                | 055186   |
| <b>Resistors</b>  |                                    |          |
| R1, R3            | 10K, 1/2W, 10%                     | 028548   |
| R4, R5,           |                                    |          |
| R7                | 1-megohm, 1/2W, 10%                | 024125   |
| R6                | 1.2K, 1/2W, 10%                    | 018036   |
| R8, R9            | 56K, 1W, 10%                       | 021550   |
| R10, R11          | 220K, 1/2W, 10%                    | 013615   |
| R12               | wire-wound, 150-ohm, 10W, 10%      | 020115   |
| R13               | 10K, 1W, 10%                       | 020214   |
| R14, R15          | 390K, 1/2W, 10%                    | 018010   |
| R16               | 12K, 2W, 10%                       | 021568   |
| R17               | 470-ohm, 1/2W, 10%                 | 028068   |
| R18               | wire-wound, 10K, 7W                | 021501   |
| REL 1             | Relay, SPDT, 5K                    | 055129   |
| V1, V2            | Tube, 12AU7                        | 029033   |
| V3, V4            | Tube, 6550                         | 022301   |
| V5                | Tube, OC3                          | 022319   |

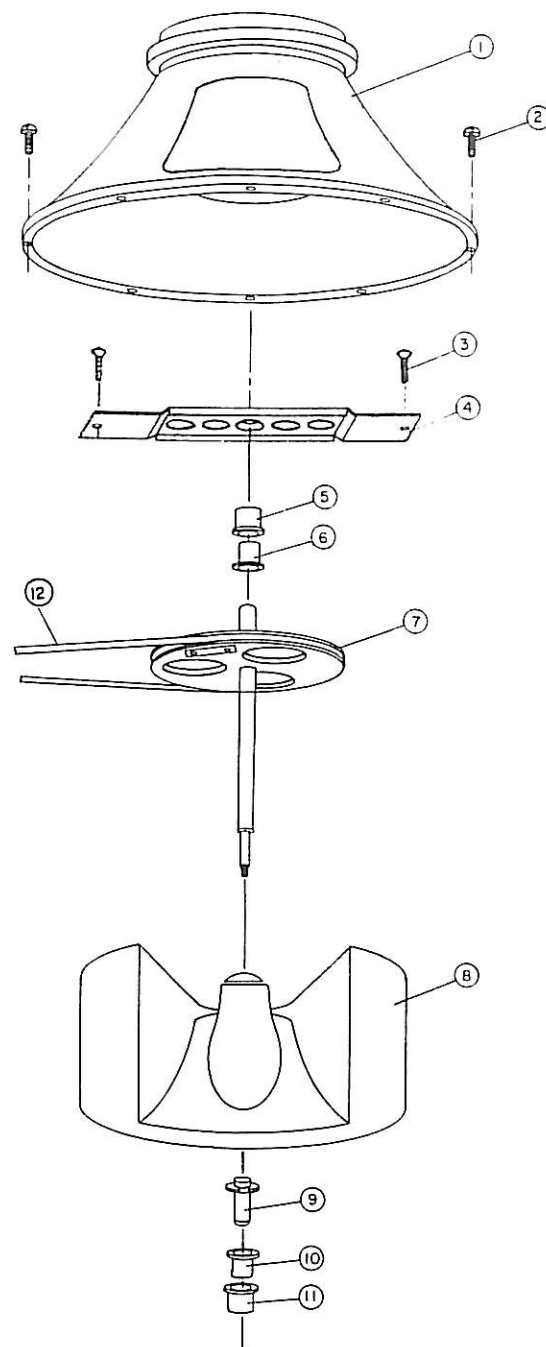
**MODEL 147 POWER AMPLIFIER**  
(Bottom View)

| Item              | Description                        | Part No. |
|-------------------|------------------------------------|----------|
| <b>Capacitors</b> |                                    |          |
| C1, C5,           |                                    |          |
| C6                | 0.1mfd, 600V                       | 041145   |
| C2, C3            | 0.1mfd, 1000V                      | 137192   |
| C4                | electrolytic, 30/30/30/10mfd, 475V | 029892   |
| C7, C8            | disc, 100PF, 100V, 20%             | 028027   |
| C9                | electrolytic, 200mfd, 50V          | 020081   |
| D1, D2,           |                                    |          |
| D3, D4            | Rectifier, silicon, 800PIV         | 055228   |
| R4                | Potentiometer, 10K                 | 028803   |
| <b>Resistors</b>  |                                    |          |
| R1                | wire-wound, 8-ohm, 5W, 10%         | 021493   |
| R2, R3            | wire-wound, 8-ohm, 10W, 10%        | 010934   |
| R5                | 820-ohm, 1/2W                      | 028373   |
| R6, R7            | 56K, 1W, 5%                        | 020206   |
| R8, R10           | 220K, 1/2W                         | 020222   |
| R9                | 18K, 1/2W                          | 137761   |
| R11, R13          | 56K, 1/2W                          | 137766   |
| R14               | 470-ohm, 1/2W                      | 028068   |
| R15               | wire-wound, 150-ohm, 10W, 10%      | 020115   |
| R12               | 10K, 1W, 10%                       | 020214   |
| REL 1             | Relay, SPDT,                       | 027649   |
| V1                | Tube, 12AU7A                       | 029033   |
| V2, V3            | Tube, 6550                         | 022301   |
| V4                | Tube, OC3                          | 022319   |
| SW1               | Switch, rotary                     | 137840   |



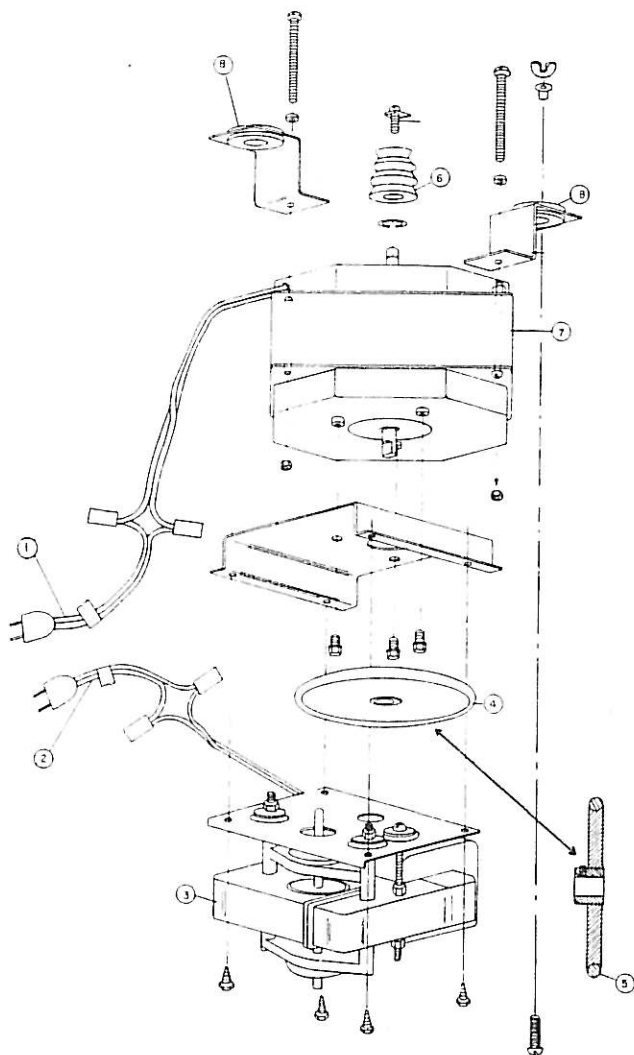
**HORN ASSEMBLY 138681**

| Item | Description                                   | Part No. |
|------|-----------------------------------------------|----------|
| 1    | Screw With Lock Washer, machine, 8-32 x 1 1/4 | 016832   |
| 2    | Bushing, aluminum, .144 x .281 x .813         | 050294   |
| 3    | Grommet, neoprene                             | 050211   |
| 4    | Spindle and Plate Assembly                    | 137804   |
| 5    | Washer, flat, 5/8 x 1 1/2 x 1/4               | 050286   |
| 6    | Speaker, treble driver, 16-ohm                | 031260   |
| 7    | Ring, spacer, waxed                           | 020313   |
| 8    | Horn Assembly, treble                         | 050807   |
| 9    | Belt, drive                                   | 045468   |



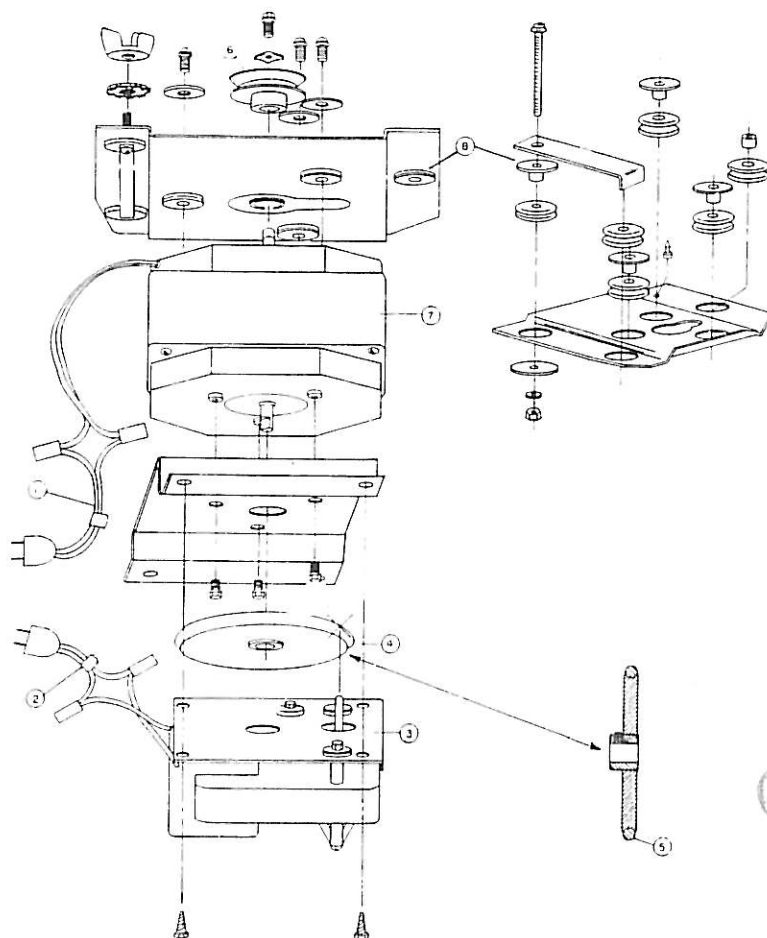
**BASS ROTOR ASSEMBLY 050807**

| Item | Description                               | Part No. |
|------|-------------------------------------------|----------|
| 1    | Speaker, 15-inch, 16-ohm                  | 052308   |
| 2    | Screw, machine, 10-24 x 1 1/4             | 012849   |
| 3    | Screw, machine, 8-32 x 3/4, Phillips head | 137380   |
| 4    | Support, rotor                            | 137256   |
| 5    | Bearing, plastic                          | 137264   |
| 6    | Grommet, shoulder, neoprene               | 137255   |
| 7    | Shaft and Pulley Assembly                 | 137857   |
| 8    | Rotor with Grommets, foam                 | 137588   |
| 9    | Shaft Extension Assembly                  | 137836   |
| 10   | Bearing, plastic                          | 137264   |
| 11   | Grommet, shoulder, neoprene               | 137255   |
| 12   | Belt, drive, 60Hz                         | 011700   |
|      | Belt, drive, 50Hz                         | 030601   |



### UPPER MOTOR ASSEMBLY 140019

| Item | Description                                                   | Part No. |
|------|---------------------------------------------------------------|----------|
|      | Motor Assembly, 2-speed, V-up<br>117V 60Hz                    | 140019   |
|      | Motor Assembly, 2-speed, V-up<br>117V 50Hz (also 220V, 240V)  | 140020   |
|      | Motor Assembly, 2-speed, V-up<br>100V 50Hz                    | 140022   |
|      | Motor Assembly, 2-speed, V-up<br>100V 60Hz                    | 140021   |
| 1    | Cable and Plug Assembly, AC,<br>29-inch, brown                | 029785   |
| 2    | Cable Assembly with Plug, 117V,<br>29-inch, white             | 029918   |
| 3    | Motor Assembly, slow speed, 117V 50/60Hz<br>(also 220V, 240V) | 012534   |
| 4    | Wheel Assembly, rim drive                                     | 014027   |
| 5    | Ring, 0, 2.475 ID                                             | 014159   |
| 6    | Pulley, 3-step, 60Hz                                          | 050500   |
|      | Pulley, 3-step, 50Hz                                          | 050559   |
| 7    | Motor, D6, 117V 50/60Hz<br>(also 220V, 240V)                  | 060269   |
|      | Motor, D6, 100V 50/60Hz                                       | 012990   |
| 8    | Grommet                                                       | 050641   |



### LOWER MOTOR ASSEMBLY 037564

| Item | Description                                                     | Part No. |
|------|-----------------------------------------------------------------|----------|
|      | Motor Assembly, 2-speed, V-down,<br>117V 60Hz                   | 037564   |
|      | Motor Assembly, 2-speed, V-down,<br>117V 50Hz (also 220V, 240V) | 045898   |
|      | Motor Assembly, 2-speed, V-down,<br>100V 50Hz                   | 137023   |
|      | Motor Assembly, 2-speed, V-down,<br>100V 60Hz                   | 137022   |
| 1    | Cable Assembly with Plug, 117V,<br>9-inch, brown                | 029983   |
| 2    | Cable Assembly with Plug, 117V,<br>9-inch, white                | 029991   |
| 3    | Motor Assembly, slow, 117V 50/60Hz                              | 054031   |
|      | Motor Assembly, slow, 220/240V 50Hz                             | 062752   |
|      | Motor Assembly, slow, 100V 50/60Hz                              | 137024   |
| 4    | Wheel Assembly, rim drive                                       | 014027   |
| 5    | Ring, 0, 2.475 ID                                               | 014159   |
| 6    | Pulley, 60Hz                                                    | 018309   |
|      | Pulley, 50Hz                                                    | 014928   |
| 7    | Motor, D10, 117V 50/60Hz<br>(also 220V, 240V)                   | 014019   |
|      | Motor, D10, 100V 50/60Hz                                        | 133660   |
| 8    | Grommet                                                         | 050641   |