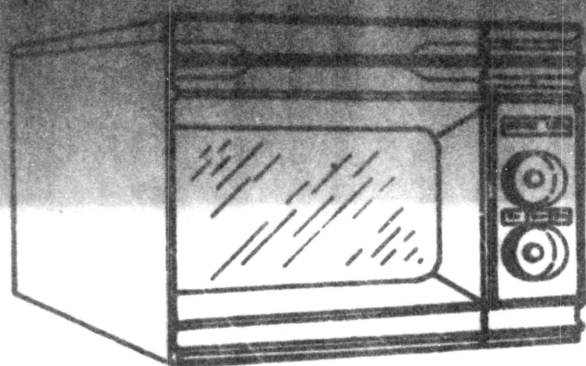




**RADARANGE  
RR-4D  
AND  
RR-4DW  
WITH  
AIR DRIVEN STIRRER**

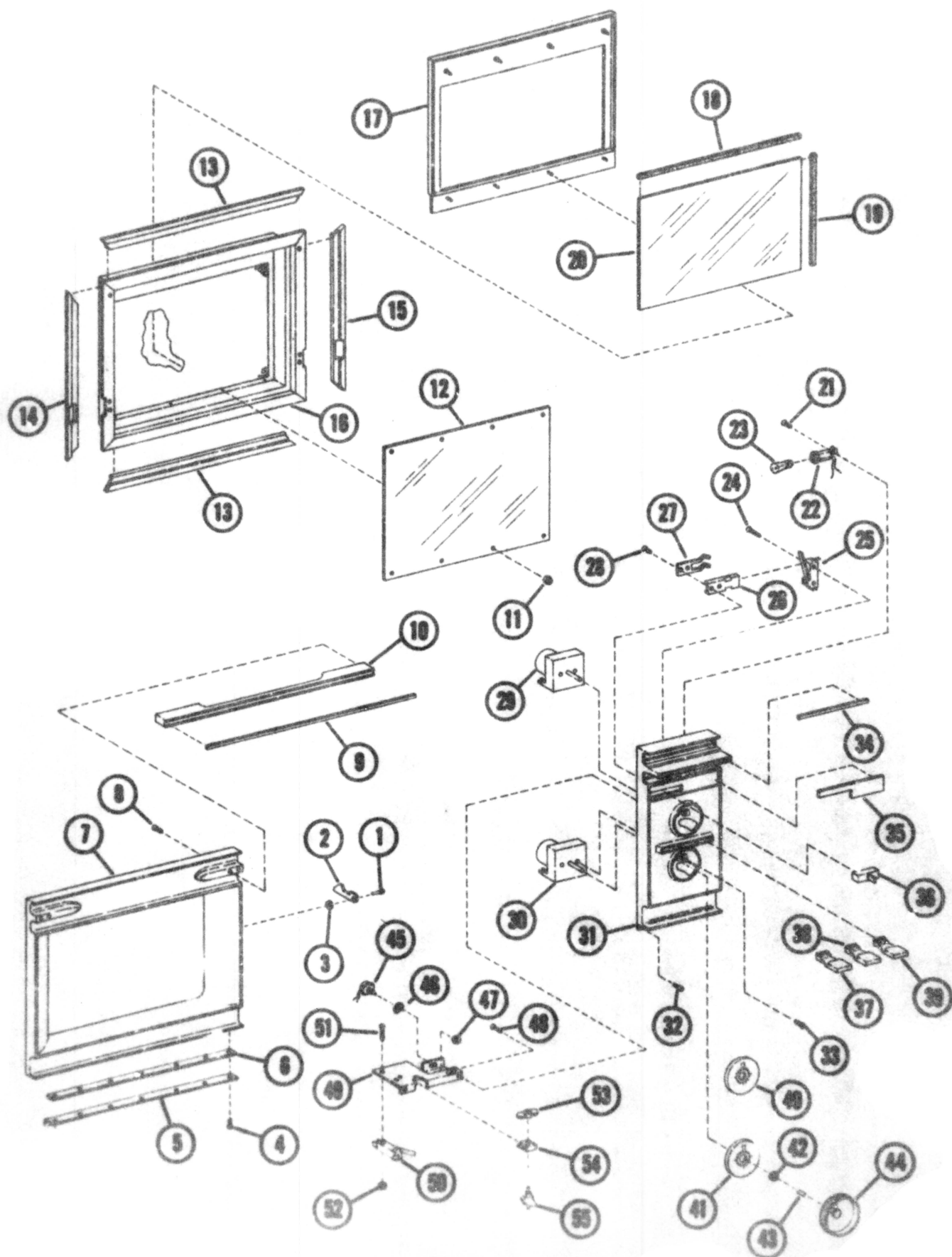
**SERVICE INSTRUCTIONS  
AND  
PARTS CATALOG**

**AMANA REFRIGERATION, INC., AMANA, IOWA, 52203**

SEPTEMBER 1975  
PRICE \$4.00

PRINTED IN USA

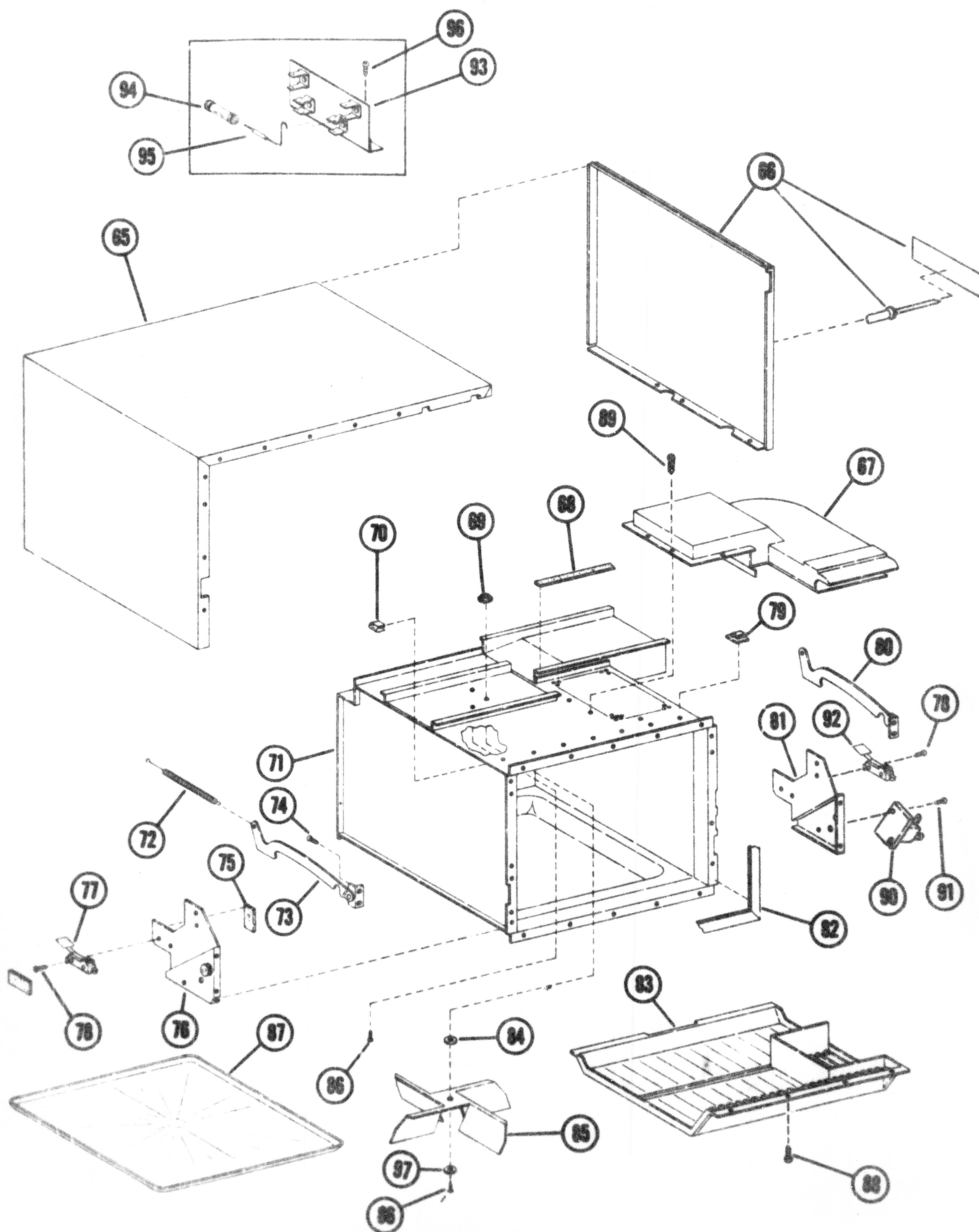
PART NO. R2100-5



EXTERIOR PARTS

## PARTS LIST FOR 1975 RADARANGE

| REF.<br>NO. | PART<br>NUMBER | DESCRIPTION                                   | MODEL NO.<br>MFG. NO. | RR-4D<br>P72165-1M | RR-4DM<br>P72165-2M |
|-------------|----------------|-----------------------------------------------|-----------------------|--------------------|---------------------|
| 1           | A31839-1       | Rivet, Countersunk, Latch                     |                       | 1                  |                     |
| 2           | A31830-1       | Latch, Door                                   |                       | 1                  |                     |
| 3           | M2874-1        | Speednut, Push On                             |                       | 1                  |                     |
| 4           | M2275-1        | Screw, #4-40 X 7/32", Hinge To Door           |                       | 5                  |                     |
| 4           | M2145-3        | Screw, #4-24 X 1/2", Hinge To Base Pan        |                       | 6                  |                     |
| 5           | B56032-3       | Hinge, Door                                   |                       | 1                  |                     |
| 6           | A31271-1       | Shim, Door Hinge, .064 Thick                  |                       | AR                 |                     |
| 6           | A31271-2       | Shim, Door Hinge, .032 Thick                  |                       | AR                 |                     |
| 7           | D72386-1       | Door Casting, Outer                           |                       | 1                  |                     |
| 8           | M2341-17       | Screw, #6-32 X 1/2", Handle                   |                       | 2                  |                     |
| 9           | B56048-2       | Insert, Handle                                |                       | 1                  |                     |
| 10          | D39648-1       | Handle, Door                                  |                       | 1                  |                     |
| 11          | M2888-1        | Nut, Window Molding                           |                       | 8                  |                     |
| 12          | A31680-1       | Window, Outer                                 |                       | 1                  |                     |
| 13          | D71413-3       | Gasket, Door Top & Bottom                     |                       | 2                  |                     |
| 13          | M2751-15       | Adhesive, Transfer Tape                       |                       | AR                 |                     |
| 14          | D71413-6       | Gasket, Door, Left Side                       |                       | 1                  |                     |
| 15          | D71413-5       | Gasket, Door, Right Side                      |                       | 1                  |                     |
| 16          | C36056-5       | Weldment, Inner Door                          |                       | 1                  |                     |
| 17          | D71064-1       | Molding, Inner Window                         |                       | 1                  |                     |
| 18          | A45911-12      | Gasket, Inner Window, 13-3/8"                 |                       | 2                  |                     |
| 19          | A45911-13      | Gasket, Inner Window, 8-3/16"                 |                       | 2                  |                     |
| 20          | A31679-1       | Window, Inner Door                            |                       | 1                  |                     |
| 21          | M2280-15       | Screw, #6-32 X 5/16", Socket Mt.              |                       | 2                  |                     |
| 22          | B56031-3       | Socket, Timer Light                           |                       | 2                  |                     |
| 23          | M3600-1        | Light Bulb, Timer Light                       |                       | 2                  |                     |
| 24          | M2275-25       | Screw, Start Switch Mounting, #6-32 X 13/16"  |                       | 1                  |                     |
| 25          | A32207-1       | Switch, Defrost Timer                         |                       | 1                  |                     |
| 26          | B56994-1       | Retainer, Defrost Control                     |                       | 1                  |                     |
| 27          | B56997-1       | Spring, Timer Defrost Bracket                 |                       | 1                  |                     |
| 28          | M2280-15       | Screw, Slide Bar, #6-32 X 5/16"               |                       | 2                  |                     |
| 29          | B56316-1       | Timer, 5 Minute                               |                       | 1                  |                     |
| 30          | B56819-2       | Timer, 30 Minute                              |                       | 1                  |                     |
| 31          | D72388-1       | Escutcheon, Control                           |                       | 1                  |                     |
| 32          | M2299-16       | Screw, Escutcheon To Outer Case, #6-20 X 3/8" |                       | 4                  |                     |
| 33          | M2025-30       | Screw, Timer Mounting, #8-32 X 3/8"           |                       | 4                  |                     |
| 34          | B57039-1       | Insert, Escutcheon                            |                       | 1                  |                     |
| 35          | C36541-2       | Nameplate, Escutcheon                         |                       | 1                  |                     |
| 36          | C36947-1       | Bar-Slide                                     |                       | 1                  |                     |
| 37          | B56310-4       | Start Button                                  |                       | 1                  |                     |
| 38          | B56310-5       | Stop Button                                   |                       | 1                  |                     |
| 39          | B56310-6       | Light Button                                  |                       | 1                  |                     |
| 40          | B56960-1       | Indicator, Escutcheon, 5 Minute               |                       | 1                  |                     |
| 41          | B56960-2       | Indicator, Escutcheon, 30 Minute              |                       | 1                  |                     |
| 42          | A32068-1       | Bearing, Knob                                 |                       | 2                  |                     |
| 43          | M1170-1        | Retainer, Control Knob                        |                       | 2                  |                     |
| 44          | D70287-1       | Control Knob                                  |                       | 2                  |                     |
| 45          | M3401-5        | Switch, Oven Light                            |                       | 1                  |                     |
| 46          | M2814-1        | Nut, Oven Light Switch                        |                       | 1                  |                     |
| 47          | M2725-11       | Lock Washer                                   |                       | 1                  |                     |
| 48          | M2280-15       | Screw, #6-32 X 5/16", Bracket Mounting        |                       | 2                  |                     |
| 49          | C36676-2       | Bracket, Switch Mounting                      |                       | 1                  |                     |
| 50          | A31415-3       | Start Switch, Preform                         |                       | 1                  |                     |
| 51          | M2025-21       | Screw, #6-32 X 7/8", Start Switch             |                       | 1                  |                     |
| 52          | M2820-5        | Nut, #6                                       |                       | 1                  |                     |
| 53          | A31277-1       | Butterfly Cam, Start Button                   |                       | 1                  |                     |
| 54          | A31343-1       | Bearing, Start Switch                         |                       | 1                  |                     |
| 55          | B56311-1       | Cam, Start Switch                             |                       | 1                  |                     |



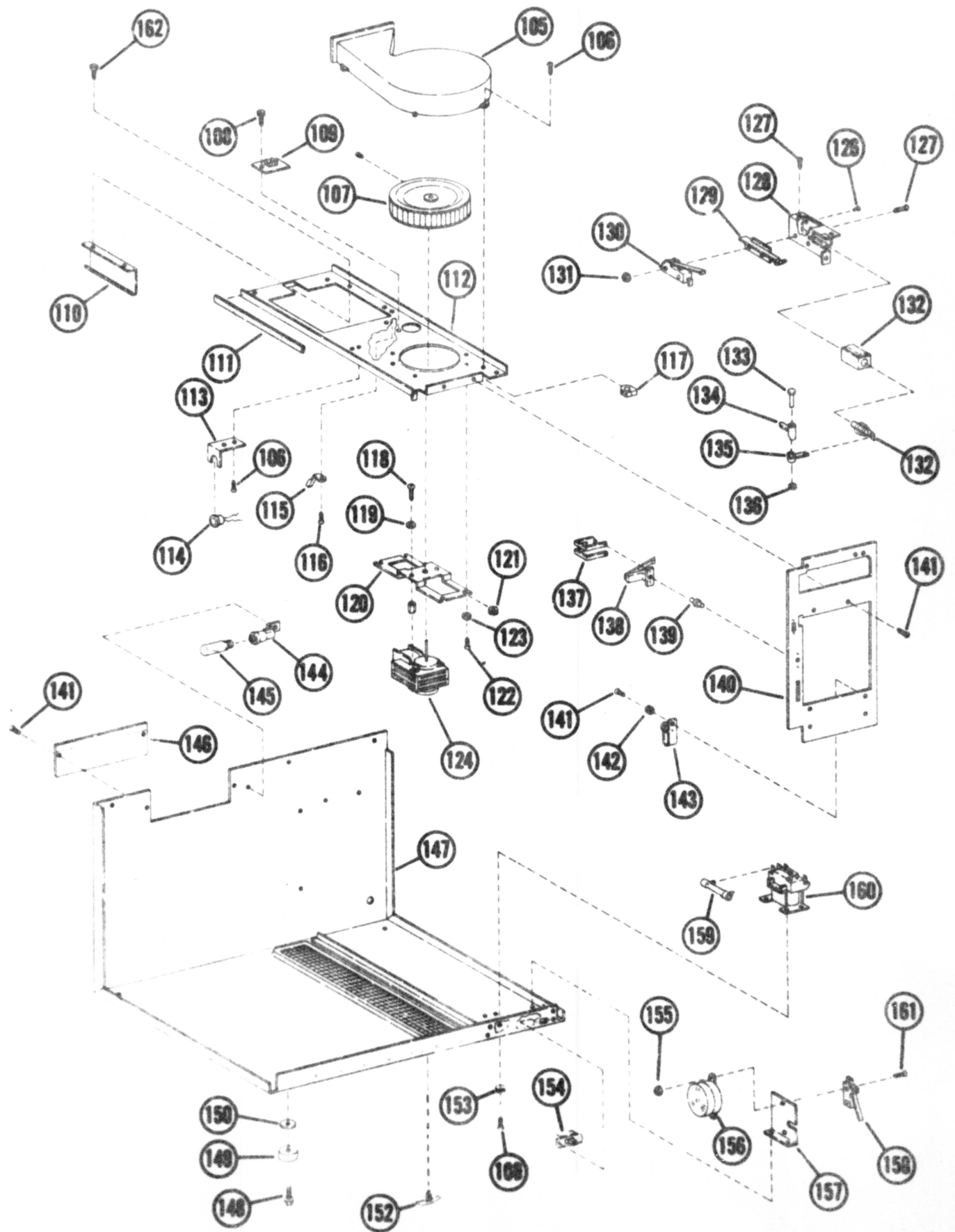
INTERIOR PARTS

## PARTS LIST FOR 1975 RADARANGE

| REF.<br>NO. | PART<br>NUMBER | DESCRIPTION                              | MODEL NO.<br>MFG. NO. | RR-4D<br>P72165-1M | RR-4DW<br>P72165-2M |
|-------------|----------------|------------------------------------------|-----------------------|--------------------|---------------------|
| 65          | C36884-1       | Wrapper, Outer Case                      |                       | 1                  |                     |
| 66          | A45396-1       | Rivet, Pop                               |                       | 1                  |                     |
| 66          | A30975-1       | Seal, Warranty                           |                       | 1                  |                     |
| 66          | C36896-1       | Panel, Access                            |                       | 1                  |                     |
| 67          | D71060-3       | Duct, Air Discharge                      |                       | 1                  |                     |
| 68          | A30303-2       | Gasket, (Order By The Foot)              |                       | AR                 |                     |
| 69          | M2820-5        | Nut, Keps                                |                       | 1                  |                     |
| 70          | M1149-1        | Clip, Cable                              |                       | 2                  |                     |
| 71          | D71683-4       | Weldment, Oven                           |                       | 1                  |                     |
| 72          | M7750-1        | Spring, Counterbalance Arm               |                       | 2                  |                     |
| 73          | B56931-2       | Arm, Counterbalance, Left Hand           |                       | 1                  |                     |
| 74          | M2280-15       | Screw, #6-32 X 5/16", Counterbalance Arm |                       | 4                  |                     |
| 75          | M0509-2        | Pad, Insulation                          |                       | 3                  |                     |
| 76          | B56932-3       | Bracket, Counterbalance, Left Hand       |                       | 1                  |                     |
| 77          | A31625-3       | Switch, Interlock, Left Hand             |                       | 1                  |                     |
| 78          | M2275-25       | Screw, #6-32 X 7/8", Switch Mounting     |                       | 4                  |                     |
| 79          | M1041-2        | Clip, Wiring, Adhesive Back              |                       | 1                  |                     |
| 80          | B56931-1       | Arm, Counterbalance, Right Hand          |                       | 1                  |                     |
| 81          | B56932-4       | Bracket, Counterbalance, Right Hand      |                       | 1                  |                     |
| 82          | C36372-1       | Gasket, Oven Cavity                      |                       | 1                  |                     |
| 83          | D71062-1       | Shield, Grease                           |                       | 1                  |                     |
| 84          | B57042-3       | Bushing, Stirrer Top                     |                       | 1                  |                     |
| 85          | C87208-1       | Fan Blade, Stirrer                       |                       | 1                  |                     |
| 86          | A32149-2       | Screw, Shoulder                          |                       | 1                  |                     |
| 87          | D70896-2       | Tray, Oven                               |                       | 1                  |                     |
| 88          | M2300-28       | Screw, #8-18 X 5/16", Grease Shield      |                       | 4                  |                     |
| 89          | M2300-15       | Screw, #6-20 X 1/2", Air Duct            |                       | 5                  |                     |
| *90         | B56887-1       | Relay, Time Delay (See 93, 94, 95, 96)   |                       | AR                 |                     |
| 91          | M2341-17       | Screw, Relay                             |                       | 2                  |                     |
| 92          | A31625-3       | Sensing Switch                           |                       | 1                  |                     |
| 93          | B57220-1       | Terminal Board                           |                       | 1                  |                     |
| +94         | M3054-1        | Resistor, Tube, 100 Ohm                  |                       | 1                  |                     |
| 95          | M3081-1        | Fuse, Thermal, 300°F.                    |                       | 1                  |                     |
| 96          | M2300-15       | Screw, #6-20 X 5/16", Terminal Board     |                       | 2                  |                     |
| 97          | A32148-1       | Bearing, Stirrer Clutch, Bottom          |                       | 1                  |                     |

\*NEW PARTS FIRST USED IN 1975

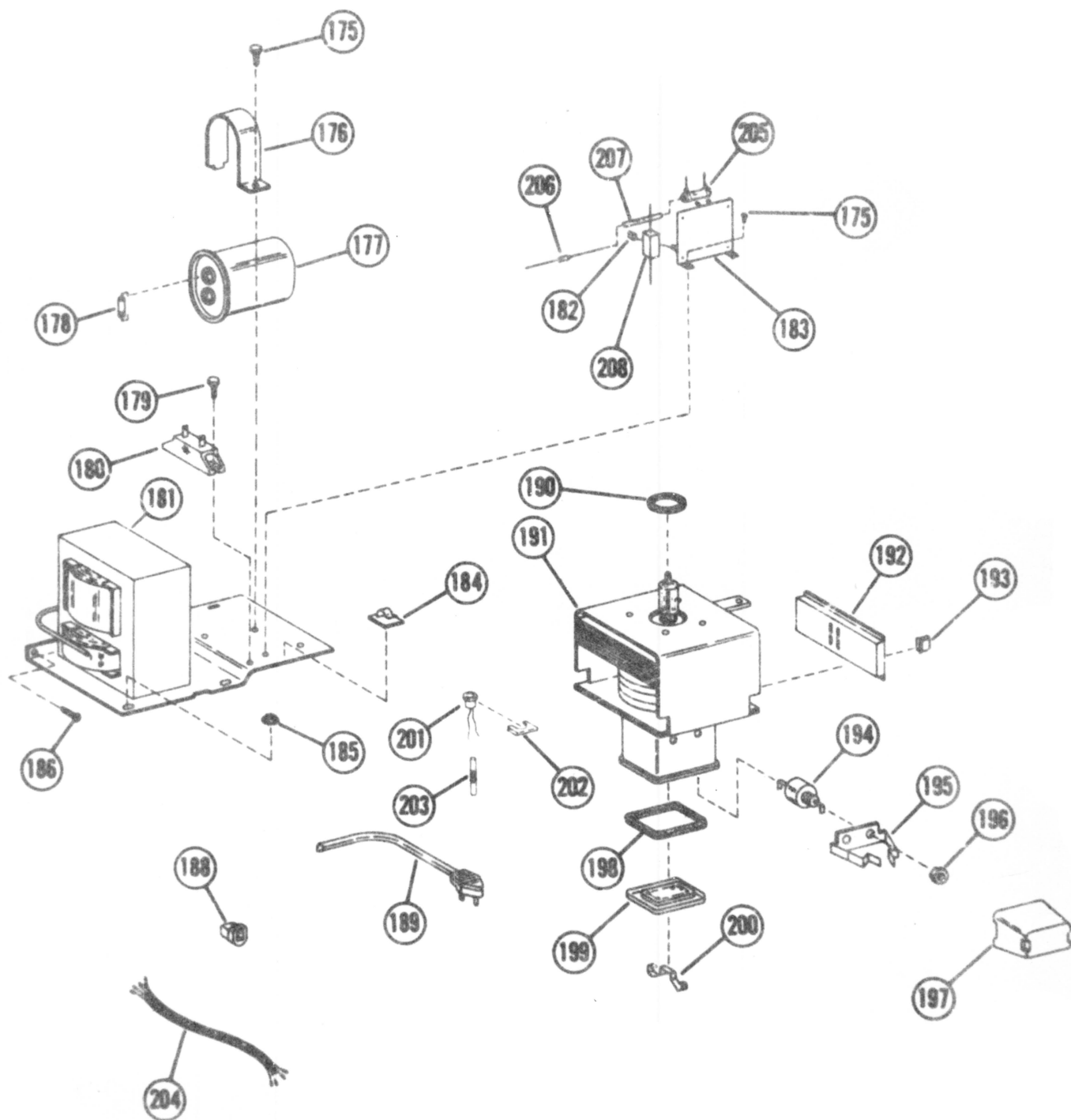
+ORDER M3054-2 FOR SERVICE REPLACEMENT (150 OHM)



INTERIOR PARTS

## PARTS LIST FOR 1975 RADARANGE

| REF.<br>NO. | PART<br>NUMBER | DESCRIPTION                               | MODEL NO.<br>MFG. NO. | RR-4D<br>P72165-1M | RR-4DM<br>P72165-2M |
|-------------|----------------|-------------------------------------------|-----------------------|--------------------|---------------------|
| 105         | C36673-1       | Blower Scroll                             |                       | 1                  |                     |
| 106         | M2300-15       | Screw, Air Duct, Etc. #6-20 X 1/2         |                       | 21                 |                     |
| 107         | B56611-1       | Blower Wheel                              |                       | 1                  |                     |
| 108         | M2165-17       | Screw, Terminal Board, #6-20 X 1/2"       |                       | 3                  |                     |
| 109         | B56070-2       | Terminal Board                            |                       | 1                  |                     |
| 110         | B56916-1       | Support, Magnetron                        |                       | 1                  |                     |
| 111         | A30303-2       | Gasket, (Order By The Foot)               |                       | AR                 |                     |
| 112         | D71678-1       | Bulk Head                                 |                       | 1                  |                     |
| 113         | B56803-1       | Bracket, Oven Thermal Cut-Out             |                       | 1                  |                     |
| 114         | B56658-3       | Thermal Cut-Out, Oven                     |                       | 1                  |                     |
| 115         | M3209-1        | Terminal, Ground                          |                       | 1                  |                     |
| 116         | M2165-29       | Screw, Wiring Clamps #8-18 X 3/8"         |                       | 2                  |                     |
| 117         | A45687-2       | D, Grommet, Wiring                        |                       | 1                  |                     |
| 118         | M2026-42       | Screw, Motor To Bracket, #10-32 X 5/16"   |                       | 2                  |                     |
| 119         | M2726-5        | Lock Washer, Motor To Bracket, #10        |                       | 2                  |                     |
| 120         | B56473-1       | Motor Mount                               |                       | 1                  |                     |
| 121         | A3815-1        | Grommet, Motor Mount, Rubber              |                       | 6                  |                     |
| 121         | A3814-1        | Eyelet, Motor Mount                       |                       | 2                  |                     |
| 122         | M2190-18       | Screw, Bracket To Bulk Head, #6-20 X 5/8" |                       | 2                  |                     |
| 123         | M2705-4        | Washer, M2190-18 Screw                    |                       | 2                  |                     |
| 124         | C36565-1       | Blower Motor                              |                       | 1                  |                     |
| 126         | M2014-14       | Screw, Mount Solenoid, #6-32 X 1/8"       |                       | 2                  |                     |
| 127         | M2300-15       | Screw, Limit Switch, #6-32 X 7/8"         |                       | 2                  |                     |
| 128         | C87121-1       | Bracket, Latch Switch                     |                       | 1                  |                     |
| 129         | B57196-1       | Spring, Latch                             |                       | 1                  |                     |
| 130         | A31634-5       | Switch, Preform, Latch                    |                       | 1                  |                     |
| 131         | M2820-5        | Nut, Keps #6                              |                       | 2                  |                     |
| 132         | B56821-1       | Solenoid                                  |                       | 1                  |                     |
| 133         | A31826-1       | Pin, Bell Crank                           |                       | 1                  |                     |
| 134         | B56725-2       | Bell Crank                                |                       | 1                  |                     |
| 135         | B56725-3       | Bell Crank                                |                       | 1                  |                     |
| 136         | M2705-30       | Washer, Bell Crank .125 ID                |                       | 1                  |                     |
| 137         | B56853-2       | Spring, Reset Arm                         |                       | 1                  |                     |
| 138         | C36675-1       | Arm, Reset                                |                       | 1                  |                     |
| 139         | A31831-3       | Button, Reset Arm                         |                       | 1                  |                     |
| 140         | B56602-2       | Front, Outer Case                         |                       | 1                  |                     |
| 141         | M2300-15       | Screw, Bracket To Bulkhead, #6-20 X 1/2"  |                       | 5                  |                     |
| 142         | M5001-1        | Grommet                                   |                       | 1                  |                     |
| 143         | A31525-1       | Buzzer                                    |                       | 1                  |                     |
| 144         | B56912-1       | Socket, Oven Light                        |                       | 1                  |                     |
| 145         | A31675-1       | Lamp, Oven Light                          |                       | 1                  |                     |
| 146         | A31981-1       | Panel, Bulb Access                        |                       | 1                  |                     |
| 147         | C36399-9       | Weldment, Outer Case Base Pan             |                       | 1                  |                     |
| 148         | M2211-32       | Screw, Foot, #8-32 X 3/4"                 |                       | 4                  |                     |
| 149         | M0110-1        | Foot                                      |                       | 4                  |                     |
| 150         | M2705-19       | Washer, Foot .219 ID                      |                       | 4                  |                     |
| 152         | M1112-3        | Dart Clip, Filter                         |                       | 4                  |                     |
| 153         | A3814-1        | Eyelet, Motor Mount                       |                       | 2                  |                     |
| 154         | A31162-1       | Switch, Buzzer                            |                       | 1                  |                     |
| 155         | M2820-5        | Nut, Keps, Defrost Switch #6              |                       | 1                  |                     |
| 156         | B56998-1       | Timer Motor, Defrost                      |                       | 1                  |                     |
| 157         | B56996-1       | Bracket, Defrost Timer                    |                       | 1                  |                     |
| 158         | A32207-1       | Switch, Defrost Timer                     |                       | 1                  |                     |
| 159         | M3050-7        | Resistor                                  |                       | 1                  |                     |
| 160         | C36563-3       | Relay, Power                              |                       | 1                  |                     |
| 161         | M2025-21       | Screw, #6-32 X 7/8", Defrost Switch       |                       | 1                  |                     |
| 162         | M2165-17       | Screw, #6-20 X 1/2", Magnetron Support    |                       | 2                  |                     |



ELECTRICAL PART.

## PARTS LIST FOR 1975 RADARANGE

| REF.<br>NO. | PART<br>NUMBER | DESCRIPTION                                     | MODEL NO.<br>MFG. NO. | RR-4D<br>P72165-1M | RR-4DW<br>P72165-2M |
|-------------|----------------|-------------------------------------------------|-----------------------|--------------------|---------------------|
| 175         | M2181-16       | Screw, Terminal Board & Capacitor, #6-20 X 3/8" |                       | 2                  |                     |
| 176         | A31971-1       | Strap, Capacitor                                |                       | 1                  |                     |
| 177         | R1600-2        | Assembly, Capacitor And Resistor                |                       | 1                  |                     |
| 178         | M3052-2        | Resistor, Capacitor, 10 Meg. Ohms, 2 Watt       |                       | 1                  |                     |
| 179         | M2165-17       | Screw, #6-20 X 1/2"                             |                       | 6                  |                     |
| 180         | B56858-1       | Diode                                           |                       | 1                  |                     |
| 181         | D71521-1       | Transformer                                     |                       | 1                  |                     |
| 182         | M3253-1        | Insulator, Wiring Terminals (Straight)          |                       | 3                  |                     |
| 182         | M3255-1        | Insulator, Wiring Terminals, Flag               |                       | 1                  |                     |
| 183         | B56874-2       | Terminal Board                                  |                       | 1                  |                     |
| 184         | M1041-1        | Clip, Cord                                      |                       | 1                  |                     |
| 185         | M2820-15       | Nut, Keps 1/4, Hex, Transformer Base            |                       | 2                  |                     |
| 186         | M2165-29       | Screw, Into Oven Cavity, #8-18 X 1/2"           |                       | 3                  |                     |
| 188         | M3700-1        | Strain Relief, Power Cord                       |                       | 1                  |                     |
| 189         | B56023-2       | Power Cord                                      |                       | 1                  |                     |
| 190         | A31851-2       | Gasket, Magnetron                               |                       | 1                  |                     |
| 191         | D71570-2       | Assembly, Magnetron And Permanent Magnets       |                       | 1                  |                     |
| 192         | B56791-1       | Baffle, Ferrite                                 |                       | 1                  |                     |
| 193         | M1135-4        | Clip, Baffle                                    |                       | 2                  |                     |
| 194         | A31488-1       | Capacitor, Includes Mounting Nuts               |                       | 2                  |                     |
| 195         | B56559-2       | Clip, High Voltage Shield                       |                       | 1                  |                     |
| 196         | M2819-1        | Nut, Capacitor Mount, 7/16" X 28                |                       | 2                  |                     |
| 197         | B56560-1       | Shield, High Voltage Terminal                   |                       | 1                  |                     |
| 198         | A31487-1       | Gasket, Capacitor Box                           |                       | 1                  |                     |
| 199         | B56479-1       | Cover, Capacitor Box                            |                       | 1                  |                     |
| 200         | A31454-1       | Bale Strap, Capacitor Box                       |                       | 1                  |                     |
| 201         | M3704-3        | Thermal Protector, Tube                         |                       | 1                  |                     |
| 202         | M1158-2        | Clip, Thermal Protector                         |                       | 1                  |                     |
| 203         | M3045-1        | Connector, Thermal Protector                    |                       | 1                  |                     |
| 204         | D72097-1       | Wiring Harness                                  |                       | 1                  |                     |
| 205         | M3050-9        | Resistor, 10 Ohm, 8 Watt                        |                       | 1                  |                     |
| 206         | M3081-2        | Fuse, 333°F.                                    |                       | 1                  |                     |
| 207         | M3217-1        | Sleeve, Fuse Insulation                         |                       | 1                  |                     |
| 208         | M3052-4        | Resistor, 10 Ohm, 5 Watt                        |                       | 1                  |                     |
| NS          | C36558-22      | Wire, Jumper, Diode, Fuse Assembly, Ground      |                       | 1                  |                     |
| NS          | C36558-7       | Wire, Jumper, H.V., Transformer To Capacitor    |                       | 1                  |                     |
| NS          | C36558-35      | Wire, Jumper, Transformer To Fuse Board         |                       | 1                  |                     |
| NS          | C36558-9       | Wire, Jumper, H.V., Magnetron, Diode, Capacitor |                       | 1                  |                     |
| NS          | M3253-1        | Insulator, Terminal, Straight                   |                       | 3                  |                     |
| NS          | M3255-1        | Insulator, Terminal Flag                        |                       | 1                  |                     |