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A Guide To Operating and Maintaining Your Single-Package Gas Heating / Electric Cooling Units

NOTE TO INSTALLER

This manual should be left with the equipment owner.

⚠ WARNING

If the information in this manual is not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliances.
- **WHAT TO DO IF YOU SMELL GAS:**
 - Do not try to light any appliance.
 - Do not touch any electrical switch; do not use any phone in your building.
 - Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
 - If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency or the as supplier.

⚠ WARNING

Do not use this unit if any part has been under water. Immediately call a qualified service technician to inspect the unit and to replace any part of the control system which has been under water. Failure to follow this warning could result in electrical shock, fire, serious injury, or death.

⚠ WARNING

Before performing recommended maintenance, be sure the main power switch to unit is turned off. Electric shock could cause serious injury or death.

Your combination heating/cooling unit is equipped with an automatic direct spark ignition and power combustion blower.

⚠ WARNING

Do not attempt to light by hand; serious injury may result.

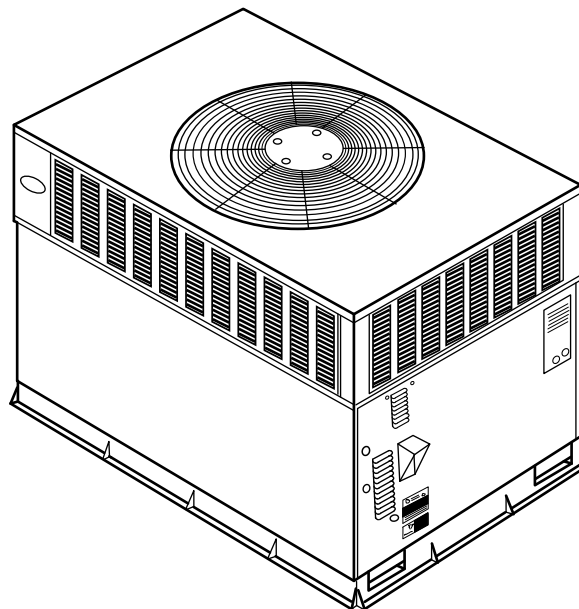


Fig. 1 — Unit 48GP with Standard Louvered Grille

Manufacturer reserves the right to discontinue, or change at any time, specifications or designs without notice and without incurring obligations.

TO LIGHT UNIT

⚠ WARNING

1. Do not turn off the electrical power to unit without first turning off the gas supply.
2. Before attempting to start the gas heating section, familiarize yourself with all the procedures that must be followed.

If you do not follow these instructions exactly, a fire or explosion may result, causing property damage, serious injury, or death.

Step 1—Set the temperature selector on room thermostat to the lowest temperature setting and set system switch to HEAT.

Step 2—Close the external manual shutoff valve.

Step 3—Turn off the electrical supply to the unit.

Step 4—Remove the front access panel with a 5/16 in. nut driver.

Step 5—Move the selector switch on the internal gas valve to the OFF position and wait 5 minutes.

Step 6—Move the selector switch on the internal gas valve to the ON position.

Step 7—Replace the front access panel.

Step 8—Turn on the electrical supply to unit.

Step 9—Open the external manual shutoff valve.

Step 10—Set the temperature selector on room thermostat slightly above room temperature to start unit. The induced-draft combustion-air fan will start. Main gas valve will open and main burners should ignite within 5 seconds. If the burner does not light within 5 seconds, the ignition module will go into a RETRY mode after a period of approximately 22 seconds (following the 5-second ignition period).

If the burners do not light within 15 minutes of the initial call for heat, there is a lockout.

Step 11—Set the temperature selector on room thermostat to desired setting.

⚠ WARNING

1. If the main burners fail to light, or the blower fails to start, shut down gas heating section and call your dealer for service.
2. Never attempt to manually light the main burners on unit with a match, lighter, or any other flame. If the electric sparking device fails to light the main burners, refer to the following shutdown procedures, then call your dealer as soon as possible.

Failure to follow these requirements could result in serious injury or death.

TO SHUT UNIT OFF

⚠ WARNING

Do not turn off the electrical power to unit without first turning off the gas supply.
Failure to follow these procedures can result in fire, serious injury, or death.

NOTE: If unit is being shut down because the heating season has ended, make sure to turn on power to cooling system.

If unit is being shut down because of a malfunction, call your dealer as soon as possible.

Should overheating occur or the gas supply fail to shut off, shut off the manual gas valve to the unit before shutting off the electrical supply.

Step 1—Set the temperature selector on room thermostat to lowest temperature setting and set system switch to OFF.

Step 2—Close the external manual shutoff valve.

Step 3—Turn off the electrical power supply to the unit.

Step 4—Remove the front access panel.

Step 5—Move the selector switch on the internal gas valve to the OFF position.

Step 6—Replace the burner access panel.

Step 7—Restore electrical power to the unit and set system switch to COOL to ensure operation of the cooling system during the cooling season.

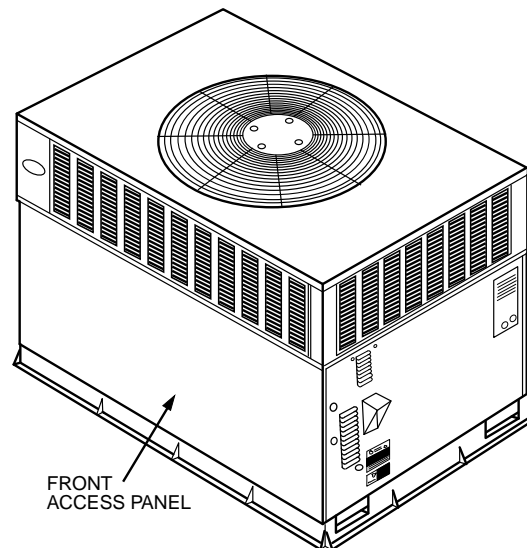


Fig. 2—Gas Heating/Electric Cooling Unit Front Access Panel

ROUTINE MAINTENANCE

All routine maintenance should be handled by skilled, experienced personnel. Your dealer can help you establish a standard procedure.

For your safety, keep the unit area clear and free of combustible materials, gasoline, and other flammable liquids and vapors.

To assure proper functioning of the unit, flow of combustion and ventilating air must not be obstructed from reaching the unit. Clearance of at least 48 in. is required from top of unit and on sides except the power entry side (42 in. clearance) and the duct side (12 in. minimum clearance).

MAINTENANCE AND CARE FOR THE EQUIPMENT OWNER

Before proceeding with those things you might want to maintain yourself, please carefully consider the following:

⚠ WARNING

1. TURN OFF GAS SUPPLY AND ELECTRICAL POWER TO YOUR UNIT BEFORE SERVICING OR PERFORMING MAINTENANCE.
2. Do not turn off electrical power to this unit without first turning off the gas supply.
3. When removing access panels or performing maintenance functions inside your unit, be aware of sharp sheet metal parts and screws. Although special care is taken to reduce sharp edges to a minimum, be extremely careful when handling parts or reaching into the unit.

Failure to follow these instructions may result in serious injury or death.

AIR FILTERS — Air filter(s) should be checked at least every 3 or 4 weeks and changed or cleaned whenever it becomes dirty. Dirty filters produce excessive stress on the blower motor and can cause the motor to overheat and shut down. Table 1 indicates the correct filter size for your unit. Refer to Fig. 3 to access the filter(s).

To replace or inspect filter(s) (or accessory filter rack when supplied):

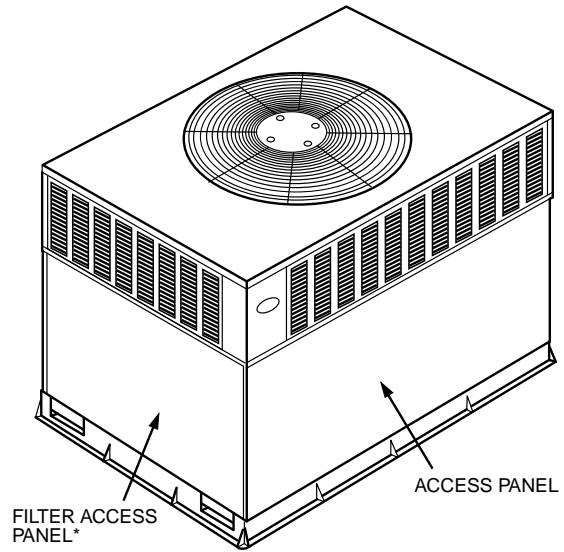
1. Remove the filter access panel using a 5/16-in. nut driver.
2. Remove the filter(s) by pulling the filter(s) out of the unit. If the filter(s) is dirty, clean or replace with new one.

When installing the new filter(s), note the direction of the airflow arrows on the filter frame.

If you have difficulty in locating your air filter(s), or if you have questions concerning proper filter maintenance, contact your dealer for instructions. When replacing filters, always use the same size and type of filter that was supplied originally by the installer.

Table 1—Indoor-Air Filter Data

UNIT SIZE	FILTER SIZE
48GP024-030	20x20
48GP036	20x24
48GP042-060	24x30



*For accessory filter rack.

Fig. 3—Filter Access Panel—Vertical Supply Shown

⚠ CAUTION

Never operate your unit without filters in place. Failure to heed this warning may result in damage to the blower motor and/or compressor. An accumulation of dust and lint on internal parts of your unit can cause loss of efficiency and, in some cases, fire.

HEAT EXCHANGER — To ensure dependable and efficient heating operation, the heat exchanger should be checked by a qualified maintenance person before each heating season, and cleaned when necessary. This checkout should not be attempted by anyone not having the required expertise and equipment to properly do the job. Checking and/or cleaning the heat exchanger involves removing the gas controls assembly and the flue collector box cover and, when completed, reinstalling the gas controls assembly for proper operation. Also, the flue collector box cover must be replaced correctly so that a proper seal is maintained. Contact your dealer for the required periodic maintenance.

FANS AND FAN MOTOR — Periodically check the condition of fan wheels and housings and fan-motor shaft bearings. No lubrication of condenser- or evaporator-fan bearings or motors is required or recommended.

EVAPORATOR AND CONDENSER COILS — Cleaning of the coils should only be done by qualified service personnel. Contact your dealer for the required annual maintenance.

CONDENSATE DRAIN — The drain pan and condensate drain line should be checked and cleaned at the same time the cooling coils are checked by your dealer.

COMPRESSOR — All compressors are factory-shipped with a normal charge of the correct type refrigeration grade oil in them and should rarely require additional oil.

⚠ WARNING

Do not poke sticks, screwdrivers, or any other object into revolving fan blades. Severe bodily injury may result.

The fan must be kept free of all obstructions to ensure proper cooling. Contact your dealer for any required service.

ELECTRICAL CONTROLS AND WIRING — Electrical controls are difficult to check without proper instrumentations; therefore, if there are any discrepancies in the operating cycle, contact your dealer and request service.

REFRIGERANT CIRCUIT — The refrigerant circuit is difficult to check for leaks without the proper equipment; therefore, if inadequate cooling is suspected, contact your local dealer for service.

COMBUSTION AREA AND VENT SYSTEM — The combustion area and vent system should be inspected visually before each heating season. The normal accumulation of dirt, soot, rust, and scale can result in loss of efficiency and improper performance if allowed to build up.

⚠ CAUTION

If your unit makes an especially loud noise when the main burners are ignited, shut down the heating section and call your dealer.

Proceed as follows to inspect the combustion area and power-venting system of your unit:

1. Turn off gas supply to your unit and then turn off electrical power.
2. Remove burner access panel. See Fig. 1
3. Using a flashlight, carefully inspect the burner areas for dirt, soot, rust, or scale. See Fig. 2

⚠ CAUTION

If dirt, soot, rust, or scale accumulations are found, call your dealer and do not operate your heating section.

4. When you have completed your inspection, follow the start-up procedures in this manual to restore your unit to operation.
5. Observe unit heating operation.

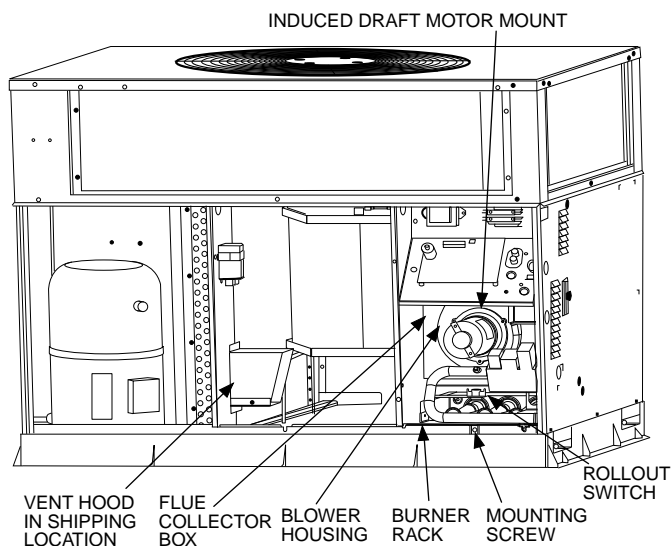


Fig. 4—Gas Heating/Electric Cooling Unit

⚠ CAUTION

Components in heat section may be hot after unit has been started up. When observing flame, be careful not to get close to or touch heating components or personal injury may result.

Watch the burner flame to see if it is bright blue. If you observe a suspected malfunction or if the burner flames are not bright blue, call your dealer.

6. Replace burner access panel.

⚠ WARNING

System under pressure. Relieve pressure and recover all refrigerant before system repair or final unit disposal to avoid serious injury or death. Use all service ports and open all flow-control devices, including solenoid valves.

UNIT PANELS — After performing any maintenance or service on the unit, be sure all panels are fastened securely in place to prevent rain from entering unit cabinet and to prevent disruption of the correct unit airflow pattern.

REGULAR DEALER MAINTENANCE

In addition to the type of routine maintenance you might be willing to perform, your unit should be inspected regularly by a properly trained service technician. An inspection (preferably each year, but at least every other year) should include the following:

1. Inspection of all flue product passages—including the burners, heat exchangers, and flue collector box.
2. Inspection of all combustion- and ventilation-air passages and openings.
3. Close inspection of all gas pipes leading to and inside of your unit.
4. Inspection and, if required, cleaning of the condenser and evaporator coils.
5. Inspection and, if required, cleaning of the evaporator drain pan.
6. Inspection and cleaning of blower wheel housing and motor.
7. Inspection of all supply-air and return-air ducts for leaks, obstructions, and insulation integrity. Any problems found should be resolved at this time.
8. Inspection of the unit base to ensure that no cracks, gaps, etc., exist which may cause a hazardous condition.
9. Inspection of the unit casing for signs of deterioration.
10. Inspection of all electrical wiring and components to assure proper connection.
11. Inspection for leaks in the refrigerant circuit. Pressure-check to determine appropriate refrigerant charge.
12. Inspection of compressor oil level by service person to ensure proper oil level is maintained in the compressor when it is installed and running.
13. Operational check of the unit to determine working conditions. Repair or adjustment should be made at this time.

Your servicing dealer may offer an economical service contract that covers seasonal inspections. Ask for further details.

Complete service instructions can be found in the unit Installation, Start-Up and Service Instructions.

WARRANTIES

The 48GP warranty is located at the back of this book. Be sure to read the warranty carefully to determine the coverage for your unit.

BEFORE YOU CALL FOR SERVICE, CHECK FOR SEVERAL EASILY-SOLVED PROBLEMS

If insufficient heating or cooling is suspected:

() Check for sufficient airflow. Check the air filter for dirt. Check for blocked return-air or supply-air grilles. Be sure they are open and unobstructed. If these checks do not reveal the cause, call your servicing dealer.

If your unit is not operating at all, check the following list for easy solutions:

() Check to be sure that your thermostat temperature selector is set above the indoor temperature during the heating season, or below the indoor temperature during the cooling season. Be sure the system switch is in the proper HEAT or COOL position and not in the OFF position.

() Is the electrical supply switch ON? Are any fuses blown, or has the circuit breaker tripped?

() During the heating season, check the external manual shutoff valve. Is this lever parallel with the pipe, indicating that the valve is open? Or is the lever at a right angle, indicating that the valve is closed? If closed, has the gas been shut off for safety reasons? Otherwise, you may open the valve and follow the start-up procedures listed in this manual.

NOTE: Before proceeding with the next check, turn OFF the gas supply, then the electrical power supply to the unit. Remove the control access door.

() During the heating season, check the control dial on the internal gas valve. Is it in the ON position? If it is not, be sure it was not turned off for the propose of safety. If no safety hazards exist, follow the start-up procedures in this manual.

() If your unit still fails to operate, call your servicing dealer for troubleshooting and repairs. Specify the model and serial numbers of your unit. (Record them in this manual in the space provided.) If the dealer knows exactly which unit you have, he may be able to offer suggestions over the phone, or save valuable time through knowledgeable preparation for the service call.

IN CASE OF TROUBLE

If after performing the above and unit performance is still unsatisfactory, shut off the unit and call your dealer.

Dealer's Name

Telephone

Unit Model

Unit Serial Number



IMPORTANT!
Please Fill Out And Return Within The Next 10 Days.

1. Mr. 2. Mrs. 3. Ms. 4. Miss
 First Name _____ Initial _____ Last Name _____
 Street _____ Apt. No. _____
 City _____ State _____ ZIP Code _____

5. Date of Installation: _____ Month _____ Day _____ Year _____
 6. Energy efficiency
 7. Location of dealer
 8. Dealer's installation policy
 9. Friends/relative's recommendation
 10. Contractor's/dealer's recommendation
 11. Other _____
 11. Date of birth of person whose name appears above: _____ Month _____ Day _____ Year _____

12. Excluding yourself, what is the SEX and AGE (in years) of children and other adults living in your household?
 1. No one else in household
 Male Female Age
 1. _____ years 1. _____ years
 2. _____ years 2. _____ years
 3. _____ years 3. _____ years

13. What type of product is this?
 1. Central Air Conditioner 6. Heat Recovery Ventilator
 2. Gas Furnace 7. Thermostat
 3. Oil Furnace 8. Zoning
 4. Electric Furnace
 5. Heat Pump

14. Price paid for this product (excluding installation charges and sales tax):
 \$ _____ .00
 B. Price paid for installation:
 \$ _____ .00

15. Name of company that sold you this product:

16. When did you acquire your product?
 1. Upon purchase of a new dwelling.
 2. To replace an older system of the same brand.
 3. To replace an older system of another brand.
 4. Within a year after purchasing a dwelling with no central air.
 5. 2-4 years after buying a dwelling with no central air system.
 6. Over 4 years after buying a dwelling with no central air system.

17. If you replaced an older system, approximately how old was that system?
 1. Don't know
 2. 1-5 years
 3. 6-8 years
 4. 9-11 years
 5. 12-14 years
 6. 15-17 years
 7. 18-20 years
 8. 21-24 years
 9. Over 24 years

18. If this is a replacement, what brand did you previously own?
 1. Amana 6. Janitrol 11. Snyder
 2. Bryant 7. Lennox 12. Tempstar
 3. Carrier 8. Payne 13. Trane
 4. Day & Night 9. Rueml 14. York
 5. Heil 10. Ruud 15. Other _____

19. What factors most influenced your selection of this product? (Check a maximum of two.)
 1. Brand reputation
 2. Dealer reputation
 3. Previous experience with products of this brand
 4. Previous experience with this dealer
 5. Price

20. Which credit cards do you use regularly?
 1. American Express, Diners Club
 2. MasterCard, Visa, Discover
 3. Department Store, Oil Company, etc.
 4. Do not use credit cards
 21. For your primary residence, do you:
 1. Own a House?
 2. Own a Townhouse or Condominium?
 3. Rent a House?
 4. Rent an Apartment, Townhouse or Condominium?

CARRIER CORPORATION



IF YOUR UNIT DOES NOT WORK, FOLLOW THESE STEPS IN ORDER:

- FIRST:** Contact the installer. You may find his name on the product or in your Homeowner's Packet. If his name is not known, call your builder if yours is a new residence.
SECOND: Contact the nearest CARRIER distributor. (See telephone yellow pages.)
THIRD: Contact:
 CARRIER CORPORATION
 Consumer Relations Department
 P.O. Box 4808
 Syracuse, New York 13221
 1-800-CARRIER (227-7437)

Unit Model No. _____ Unit Serial No. _____
 Date of Installation _____ Installed by _____
 Name of Owner _____ Address of Installation _____

Extended Protection Limited Warranty

ONE-YEAR LIMITED WARRANTY—Carrier Corporation (hereinafter referred to as "Company") warrants this product to be free from defects in material and workmanship. If a defect is found within one year from date of original installation of product (whether or not actual use begins on that date) Company will provide a new or remanufactured part, at Company's sole option, to replace any defective part, without charge for the part itself.

TEN-YEAR LIMITED WARRANTY ON HEAT EXCHANGER ONLY—If a defect is found in the heat exchanger within ten years from the date of original installation of product, Company will either provide a new or remanufactured heat exchanger, without charge for the part itself, or at Company's option, allow a credit in the amount of the then factory selling price for a new equivalent heat exchanger toward the retail purchase price of a new Carrier furnace.

NINE-YEAR EXTENDED LIMITED WARRANTY ON COMPRESSOR ONLY—If a defect is found in the compressor within the second through tenth year from the date of original installation of product, Company will provide a new or remanufactured compressor, at the Company's sole option, to replace any defective compressor, without charge for the part itself.

NONE OF THESE WARRANTIES INCLUDE LABOR OR OTHER COSTS INCURRED FOR DIAGNOSING, REPAIRING, REMOVING, INSTALLING, SHIPPING, SERVICING OR HANDLING OF EITHER DEFECTIVE PARTS, OR REPLACEMENT PARTS, OR NEW FURNACE.

WARRANTY CONDITIONS:

1. Warranties apply only to products in their original installation location.
2. Installation, use, care, and maintenance must be normal and in accordance with instructions contained in the Owner's Manual and Company's service information.
3. Defective parts must be returned to the distributor through a registered servicing dealer for credit.
4. All work shall be performed during normal working hours.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

LIMITATIONS OF WARRANTIES—ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) ARE HEREBY LIMITED IN DURATION TO ONE YEAR. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESS WARRANTIES ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER.

COMPANY WILL NOT BE RESPONSIBLE FOR:

1. Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
4. Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of Company.
5. Parts not supplied or designated by Company, or damages resulting from their use.
6. Company products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
7. Electricity or fuel costs, or increase in electricity or fuel costs from any reason whatsoever, including additional or unusual use of supplemental electric heat.
8. ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

Form No. 530-110

Detach & Mail Product Registration Card – **RETAIN THIS WARRANTY CERTIFICATE**

10 To help us understand our customers' lifestyles, please indicate the interests and activities in which you or your spouse enjoy participating on a regular basis:

- | | | |
|--|---|--|
| 01. <input type="checkbox"/> Bicycling Frequently | 18. <input type="checkbox"/> Crafts | 35. <input type="checkbox"/> Gourmet Cooking |
| 02. <input type="checkbox"/> Golf | 19. <input type="checkbox"/> Automotive Work | 36. <input type="checkbox"/> Wines |
| 03. <input type="checkbox"/> Physical Fitness/Exercise | 20. <input type="checkbox"/> Electronics | 37. <input type="checkbox"/> Coin/Stamp Collecting |
| 04. <input type="checkbox"/> Running/Jogging | 21. <input type="checkbox"/> Home Workshops/Do It Yourself | 38. <input type="checkbox"/> Collectibles/Collections |
| 05. <input type="checkbox"/> Snow Skiing Frequently | 22. <input type="checkbox"/> Recreational Vehicles | 39. <input type="checkbox"/> Our Nation's Heritage |
| 06. <input type="checkbox"/> Tennis Frequently | 23. <input type="checkbox"/> Stereo, Records/Tapes/CDs | 40. <input type="checkbox"/> Real Estate Investments |
| 07. <input type="checkbox"/> Camping/Hiking | 24. <input type="checkbox"/> Buy Pre-Recorded Videos | 41. <input type="checkbox"/> Stock/Bond Investments |
| 08. <input type="checkbox"/> Fishing Frequently | 25. <input type="checkbox"/> Avid Book Reading | 42. <input type="checkbox"/> Entering Sweepstakes |
| 09. <input type="checkbox"/> Hunting/Shooting | 26. <input type="checkbox"/> Bible/Devotional Reading | 43. <input type="checkbox"/> Casino Gambling |
| 10. <input type="checkbox"/> Power Boating | 27. <input type="checkbox"/> Health/Natural Foods | 44. <input type="checkbox"/> Science Fiction |
| 11. <input type="checkbox"/> Sailing | 28. <input type="checkbox"/> Photography | 45. <input type="checkbox"/> Wildlife/Environmental Issues |
| 12. <input type="checkbox"/> House Plants | 29. <input type="checkbox"/> Home Furnishing/Decorating | 46. <input type="checkbox"/> Dieting/Weight Control |
| 13. <input type="checkbox"/> Grandchildren | 30. <input type="checkbox"/> Attending Cultural/Arts Events | 47. <input type="checkbox"/> Science/New Technology |
| 14. <input type="checkbox"/> Needlework/Knitting | 31. <input type="checkbox"/> Fashion Clothing | 48. <input type="checkbox"/> Self Improvement |
| 15. <input type="checkbox"/> Vegetable Gardening | 32. <input type="checkbox"/> Fine Art/Antiques | 49. <input type="checkbox"/> Walking for Health |
| 16. <input type="checkbox"/> Flower Gardening | 33. <input type="checkbox"/> Foreign Travel | 50. <input type="checkbox"/> Watching Sports on TV |
| 17. <input type="checkbox"/> Sewing | 34. <input type="checkbox"/> Travel in the USA | |

11 Using the numbers in the above list, please indicate the 3 most important activities for: You Spouse

12 Please check all that apply to your household:

1. Regularly Purchase Items Through the Mail
2. Military Veteran in Household
3. Member of Frequent Flyer Program
4. Support Health Charities
5. Subscribe to Cable TV
6. Have a Microwave Oven
7. Have a CD Player
8. Have a VCR
9. Use a Personal Computer
10. Have a Dog
11. Have a Cat

Thanks for taking the time to fill out this questionnaire. Your answers will be used for market research studies and reports — and will help us better serve you in the future. We appreciate your interest in our products and services. If you have any questions, comments, or suggestions, please contact us at the address below. We will be able to obtain more information about activities in which you are involved and fees about these in which you are not. Please check here if, for some reason, you would prefer not to participate in this opportunity.

If you have comments or suggestions about our product please write to:

Carrier
Consumer Relations Department
P.O. Box 4808
Syracuse, NY 13221
or call 1-800-CARRI-ER

Please send products and other correspondence to:

Carrier
Consumer Relations Department
P.O. Box 4808
Syracuse, NY 13221

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