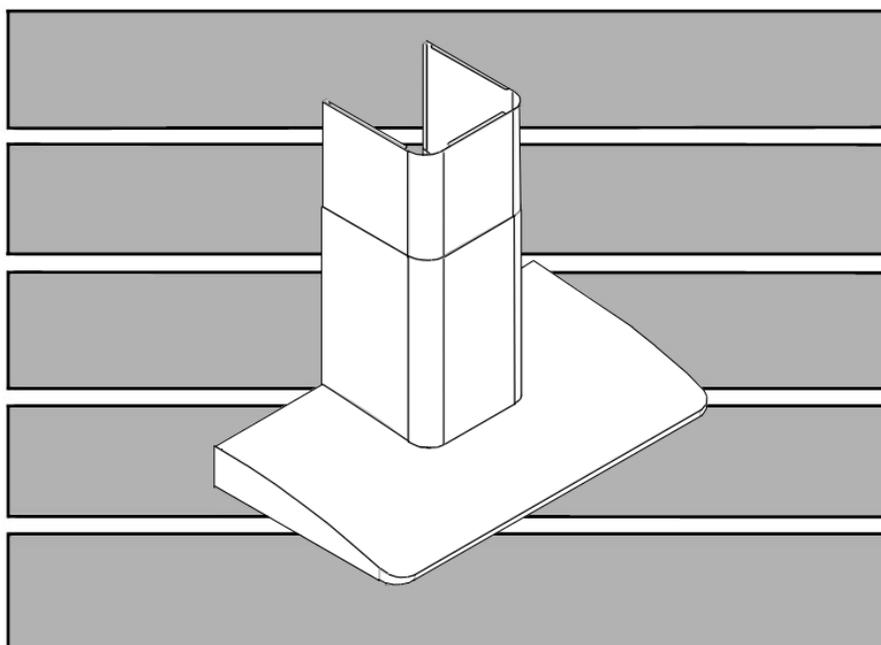


KOBE® KOBE Brand Range Hood

Model No.

RA2230SQB-1 (30")

RA2236SQB-1 (36")



INSTALLATION INSTRUCTIONS
AND OPERATION MANUAL

IMPORTANT READ THIS FIRST

READ BEFORE INSTALLATION

1. Carefully check all contents of packages.
2. Thoroughly inspect the unit for any shipping damages, cosmetic damages or defects.
3. Have a certified contractor/electrician test the unit before installation.

IF THERE IS ANY PROBLEM:

1. **DO NOT INSTALL THE UNIT AND KEEP ALL ORIGINAL PACKAGING MATERIAL.**
2. Have your original invoice as proof of purchase and product serial number ready.
3. Contact your merchant for product replacement due to shipping damages, cosmetic damages or defects.
4. For all other issues, call 1-877-BUY-KOBE (289-5623), or e-mail to info@koberangehoods.com .

NO RETURN, NO REFUND, NO EXCHANGE IF:

1. PRODUCT HAS BEEN INSTALLED
2. KNOCK-OUT HOLES HAVE BEEN PUNCTURED
3. MISSING ORIGINAL PACKAGING MATERIAL
AND/OR PARTS

[ENGLISH]

- READ AND SAVE THESE INSTRUCTIONS -

CONTENTS

IMPORTANT SAFETY INSTRUCTIONS	1
COMPONENTS OF PACKAGE.....	3
INSTALLATION.....	4
OPERATING INSTRUCTIONS.....	7
MAINTENANCE.....	9
SPECIFICATIONS	10
MEASUREMENTS & DIAGRAMS.....	11
PARTS LIST.....	12
CIRCUIT DIAGRAM.....	14
TROUBLE SHOOTING.....	15
WARRANTY	16
PRODUCT REGISTRATION.....	18

- READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING -

ALL WIRING MUST BE DONE BY A PROFESSIONAL AND IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES



IMPORTANT SAFETY INSTRUCTIONS

- PLEASE READ THIS SECTION CAREFULLY BEFORE INSTALLATION -

⚠WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY, OBSERVE THE FOLLOWING:

- 1) Installation and electrical wiring must be done by qualified professionals and in accordance with all applicable codes and standards, including fire-rated construction.
- 2) When cutting or drilling into wall or ceiling, be careful not to damage electrical wiring or other hidden utilities.
- 3) Ducted fans must be vented to the outside.
 - a) Before servicing or cleaning unit, open the light panel and SWITCH POWER OFF AT SERVICE PANEL.
 - b) Clean all grease laden surfaces frequently. To reduce the risk of fire and to disperse air properly, make sure to vent air outside. DO NOT vent exhaust air into wall spaces, attics, crawl spaces or garages.

- NOTE
- This warranty is void without an authorized agent's receipt or if unit is damaged due to misuse, poor installation, improper use, mistreatment, negligence or any other circumstances beyond the control of KOBE RANGE HOODS authorized agents. Any repair carried out without the supervision of KOBE RANGE HOODS authorized agents will automatically void the warranty.
 - KOBE RANGE HOODS will not be held responsible for any damages to personal property or real estate or any bodily injuries whether caused directly or indirectly by the range hood.

⚠WARNING: TO REDUCE THE RISK OF PERSONAL INJURY IN THE EVENT OF A RANGE TOP GREASE FIRE:

1. Keep all fan, baffle/spacer/filter/oil tunnel/oil container and grease-laden surfaces clean. Grease should not be allowed to accumulate on fan, baffle/spacer/filter/oil tunnel/oil container.
2. Always turn hood ON when cooking.
3. Use high settings on cooking range ONLY when necessary.
4. Do not leave cooking range unattended when cooking.
5. Always use cookware and utensils appropriate for the type and amount of food prepared.
6. Use this unit only in the manner intended by the manufacturer.
7. Before servicing, switch power off at service panel and lock service panel (if possible) to prevent power from switching on accidentally.
8. Clean ventilating fan frequently.

What to Do In The Event Of a Range Top Grease Fire

- SMOTHER FLAMES with a tight fitting lid, cookie sheet, or metal tray, and then turn off the burner. KEEP FLAMMABLE OR COMBUSTIBLE MATERIAL AWAY FROM FLAMES. If the flames do not go out immediately, EVACUATE THE AREA AND CALL THE FIRE DEPARTMENT or 911.
- NEVER PICK UP A BURNING PAN – You May Get Burned.
- DO NOT USE WATER, including wet dishcloths or towels – a steam blast will result.
- Use an extinguisher ONLY if:
 - a) You have a Class A, B, C extinguisher and know how to operate it.
 - b) The fire is small and contained in the area where it started.
 - c) The fire department has been called.
 - d) You can fight the fire with your back to an exit.

What to Do If You Smell Gas

- Extinguish any open flame.
- Do not try to turn on the lights or any type of appliance.
- Open all doors and windows to disperse the gas. If you still smell gas, call the Gas Company and Fire Department right away.

CAUTION

- 1) For general ventilation use only. Do not use to exhaust hazardous or explosive materials and vapors.
- 2) To reduce the risk of fire, use only metal ductwork. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) to prevent back drafting.
- 3) Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and code authorities.
- 4) Activating any switch on may cause ignition or an explosion.
- 5) Due to the size and weight of this hood, installation by 2 persons is recommended.

WARNING



ELECTRICAL SHOCK HAZARD – Can result in serious injury or death. Disconnect appliance from electric power before servicing. If equipped, the fluorescent light bulb contains small amounts of mercury, which must be recycled or disposed of according to Local, State, and Federal Codes.

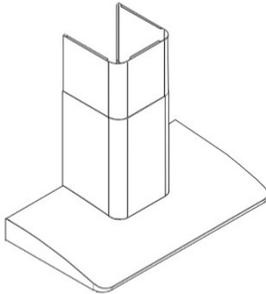
COMPONENTS OF PACKAGE

(Must keep all material for returns or refunds)

Range Hood Box

- {A} KOBE Range Hood
- {B} Warranty Registration Card
- {C} Quick Reference Guide
- {D} Baffle Filter x 2 (30" hood)
x 3 (36" hood)
- {E} Duct cover Mounting Bracket
- {F} Hood-Mounting Bracket x 2
- {G} Screws Package

{A}



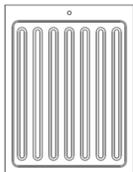
{B}



{C}



{D}

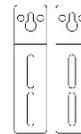


Knob attached to baffle filter

{E}



{F}



* Pre-installed

{G}



3/16 "x 3/8" (8PCS)

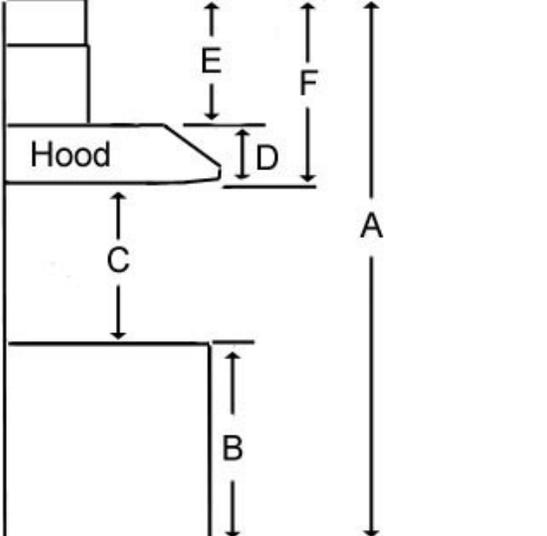
◆ FOR MORE INFORMATION, PLEASE VISIT OUR WEBSITE www.koberangehoods.com OR CONTACT KOBE RANGE HOODS AT (626) 775-8880.

INSTALLATION

PLEASE READ ENTIRE INSTRUCTIONS BEFORE PROCEEDING

Calculation before Installation

To calculate installation, please refer to TABLE 1. (All calculation in inches.)

TABLE 1	
<p>A = Height of Floor to Ceiling B = Height of Floor to Counter Top (Standard: 36") C = Preferred Height of Counter Top to Hood Bottom (Minimum 26" to 30") D = Height of Hood E = Height of Duct Cover [F – D] F = Height of the Hood Installation [A – (B+C)]</p>	 <p>The diagram illustrates the vertical dimensions for hood installation. It shows a cross-section of a kitchen counter and ceiling. Dimension A is the total height from the floor to the ceiling. Dimension B is the height from the floor to the counter top. Dimension C is the height from the counter top to the bottom of the hood. Dimension D is the height of the hood itself. Dimension E is the height of the duct cover above the hood. Dimension F is the total height from the counter top to the top of the duct cover. The hood is labeled 'Hood'.</p>

⚠ SAFETY WARNING

HOOD MAY HAVE VERY SHARP EDGES; PLEASE WEAR PROTECTIVE GLOVES IF REMOVING ANY PARTS FOR INSTALLING, CLEANING OR SERVICING.

NOTE: BE CAREFUL WHEN USING ELECTRICAL SCREWDRIVER, DAMAGE TO THE HOOD MAY OCCUR.

Preparation before Installation

NOTE: TO AVOID DAMAGE TO YOUR HOOD, PREVENT DEBRIS FROM ENTERING THE VENT OPENING.

- Decide the location of the venting pipe from the hood to the outside. (Figure 1)
- A straight, short venting run will allow the hood to perform more efficiently.
- Try to avoid as many transitions, elbows, and long run as possible. This may reduce the performance of the hood.
- Temporarily wire the hood to test for proper operation before installing.
- Important: Peel any protective film off the hood.
- Use duct tape to seal the joints between pipe sections.
- If necessary, prepare back wall frame with cross framing lumber for secure installation. Refer to Table 1 and measurements on Page 11 to decide the level of the lumber. (Figure 2)
- Loosen hood-mounting brackets at the back of the hood, adjust brackets and tighten screws as shown in Figure 3.
- If necessary, remove the rubber stand on the back of the hood and discard.

Hood Installation

⚠ CAUTION: USE HAND TOOLS ONLY. DO NOT OVER TIGHTEN SCREWS. IT MAY CAUSE DAMAGE TO THE HOOD.

⚠ CAUTION: If moving the cooking range is necessary to install the hood, turn off the power in an electric range at the main electrical box. SHUT OFF THE GAS BEFORE MOVING A GAS RANGE. And use a protective covering to protect cooktop and/or countertop from damage.

1. Using references in Table 1 and measurements on Page 11, mark the leveling locations point for hood-mounting bracket on the wall.
2. Secure two mounting screws (not provided) to the wall, leaving an 1/8" space from the wall. (Figure 4)
3. Align the hood-mounting bracket to the mounting screws on the wall and hang hood into place.

Figure 1

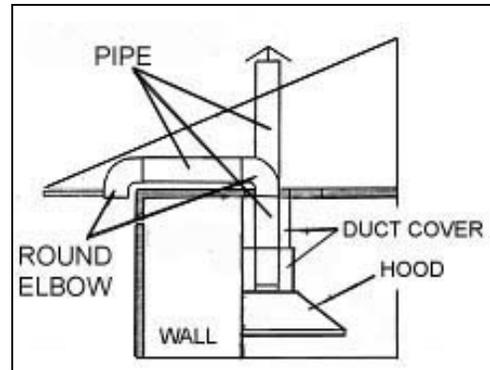


Figure 2

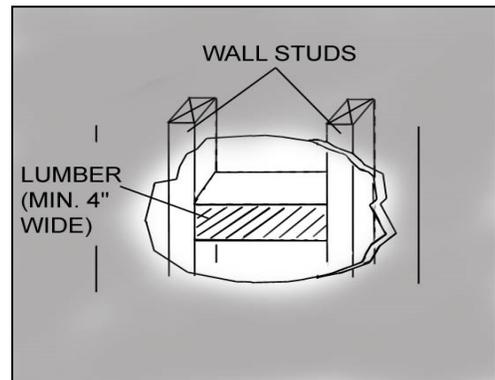


Figure 3

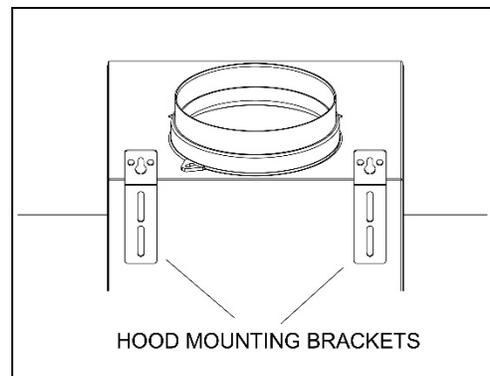
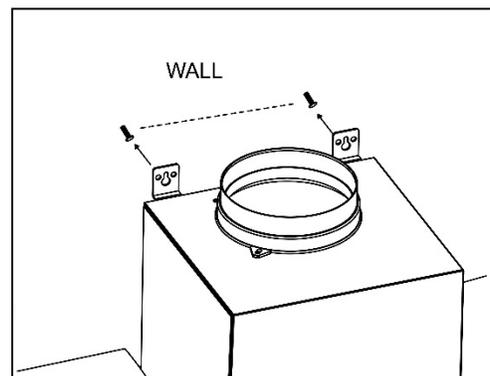


Figure 4



- Secure and tighten the mounting screws.

⚠ CAUTION: MAKE SURE THE HOOD IS SECURE BEFORE RELEASING.

Ductwork Installation

- Using Reference **E** from Table 1 and measurements on Page 12, mark the leveling point for duct cover-mounting bracket.
- Secure the duct cover-mounting bracket to the wall with two screws (not provided). (Figure 5 and Figure 8) Make sure all screws are tightened. NOTE: Inner duct cover will cover the duct cover-mounting bracket.
- Use 6" steel pipe (not provided) to connect the plastic exhaust on the hood to the ductwork above. Use duct tape to ensure all joints are secure and air tight as shown in Figure 6.

Wiring to Power Supply

⚠ THIS RANGE HOOD MUST BE PROPERLY GROUNDED. MAKE SURE THIS IS DONE BY QUALIFIED ELECTRICIAN IN ACCORDANCE WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL CODES. BEFORE CONNECTING WIRES, SWITCH POWER OFF AT SERVICE PANEL AND LOCK SERVICE PANEL TO PREVENT POWER FROM BEING SWITCHED ON ACCIDENTALLY.

- Connect three wires (black, white and green) to house wires and cap with wire connectors. Connect according to color: black to black, white to white, and green to green.
- Test the operation of the hood before performing the next step. Make sure power is supplied to the hood.

Duct Cover Installation

- Slide inner duct cover up 2 inches before sliding entire duct cover onto the hood. (Figure 7)
- Align the inner duct cover to the duct cover-mounting bracket. Secure inner duct cover with two (3/16" x 3/8") screws (provided).
- Fasten outer duct cover to plastic plate on the hood with four (3/16" x 3/8") screws (provided).

Install / Uninstall Accessories

- Place baffle filters underneath the hood.

Final Assembly

- Turn power ON in control panel. Check all lights and fan operation.
- Leave this Installation Instructions and Operation Manual for the homeowner.

Figure 5

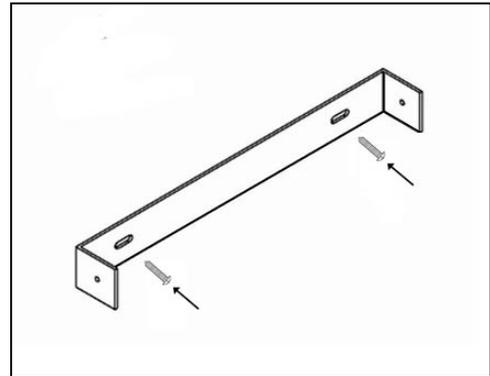


Figure 6

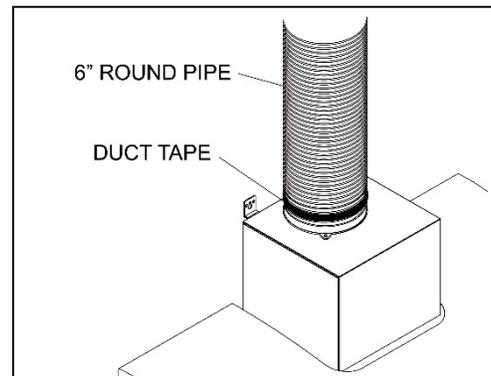
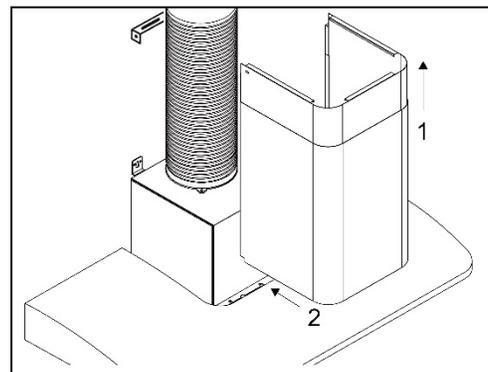
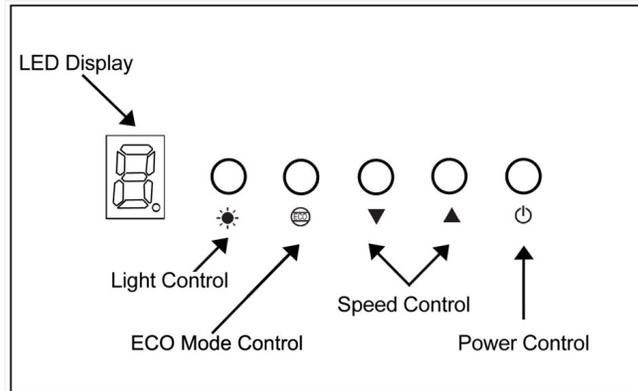


Figure 7



OPERATING INSTRUCTIONS



Note: For best results, turn fan on prior to any preparation or cooking and keep fans running while cooking. Adjust speed as needed.

Power Control

Press Power Control to turn On/Off the range hood.

Speed Control

The fan will start on Speed #3. Press  button to decrease the speed level. Press  button to increase the speed level.

To activate 3-minute delay shutoff, press and hold  button. Once the delay shutoff has been activated the LED Display will flash and fan speed will change to Speed #3. Speed level can be adjusted by pressing  or  button during the 3-minute countdown.

To turn fan off immediately, press  button a second time.

Light Control

Press  button to turn LED lights ON. Each press of  button will cycle the light intensity through Bright, Medium Bright, Dim, and OFF.

Lights are controlled independently from Power Control and delay shutoff. Turning the power off will not turn lights off.

ECO Mode Control

ECO Mode is set to turn fan on QuietMode™ setting for 10 minutes every hour to remove excess moisture, microscopic particles and odors for better kitchen air quality.

ECO Mode is independent from the Power Control and delay shutoff.

ECO Mode can be activated while fan is running or off. Press and hold  button until  icon briefly appears in the LED Display. While fan is running you can change the speed, use delay shutoff or turn off fan without disabling ECO Mode. When fan is off and ECO Mode has been activated, the  icon will appear in the LED Display. The  icon will flash while ECO Mode is operating on QuietMode™. To deactivate, press and hold  button until  icon no longer appears in the LED Display.

NOTE: Pressing  button while ECO Mode is active will activate the regular fan function and the speed will be displayed in LED Display.

Note: Must open door or windows to create sufficient make-up air when ECO Mode has been activated.

MAINTENANCE

For optimal performance, clean the range hood surface and baffles regularly.

To Clean Hood Surface

CAUTION: NEVER USE ABRASIVE CLEANERS, PADS, OR CLOTHS.

*** Regular care will help preserve its fine appearance.

1. Use only mild soap or detergent solutions. Dry surfaces using soft cloth.
2. If hood looks splotchy (stainless steel hood), use a stainless steel cleaner to clean the surface of the hood. Avoid getting cleaning solution onto or into the control panel. Follow directions of the stainless steel cleaner. **Caution: Do not leave on too long as this may cause damage to hood finish.** Use soft towel to wipe off the cleaning solution, gently rub off any stubborn spots. Use dry soft towel to dry the hood.
3. DO NOT allow deposits to accumulate or remain on the hood.
4. DO NOT use ordinary steel wool or steel brushes. Small bits of steel may adhere to the surface and cause rusting.
5. DO NOT allow salt solutions, disinfectants, bleaches, or cleaning compounds to remain in contact with stainless steel for extended periods. Many of these compounds contain chemicals, which may be harmful. Rinse with water after exposure and wipe dry with a clean lint free cloth.

For Baffle Filter models only: to Clean Baffle Filter/Oil Tunnel

CAUTION: DRAIN OIL FROM BAFFLE FILTERS, SPACERS & OIL TUNNEL REGULARLY TO PREVENT OVERFLOW.

1. Remove all the baffle filters, spacers and oil tunnel.
2. Using a sponge, wash with warm soapy water. Dry completely before returning into place.
CAUTION: SHARP EDGES
(Note: Baffle Filters are top rack dishwasher safe.)

SPECIFICATIONS

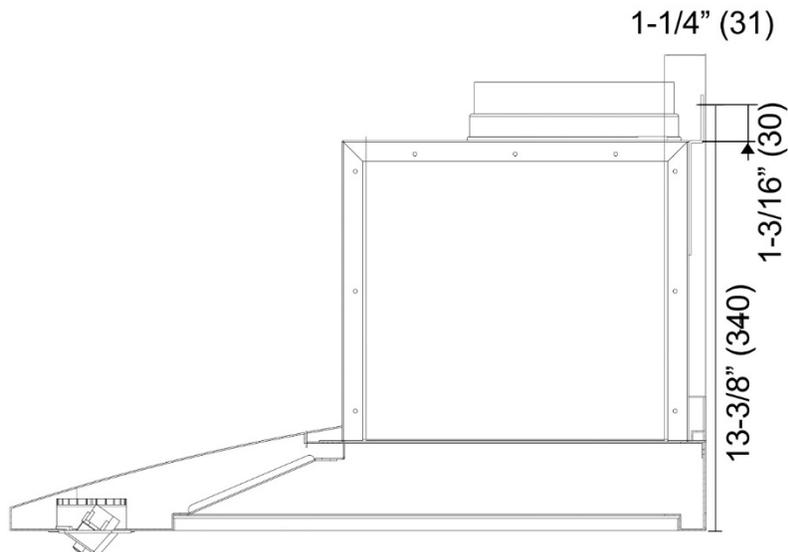
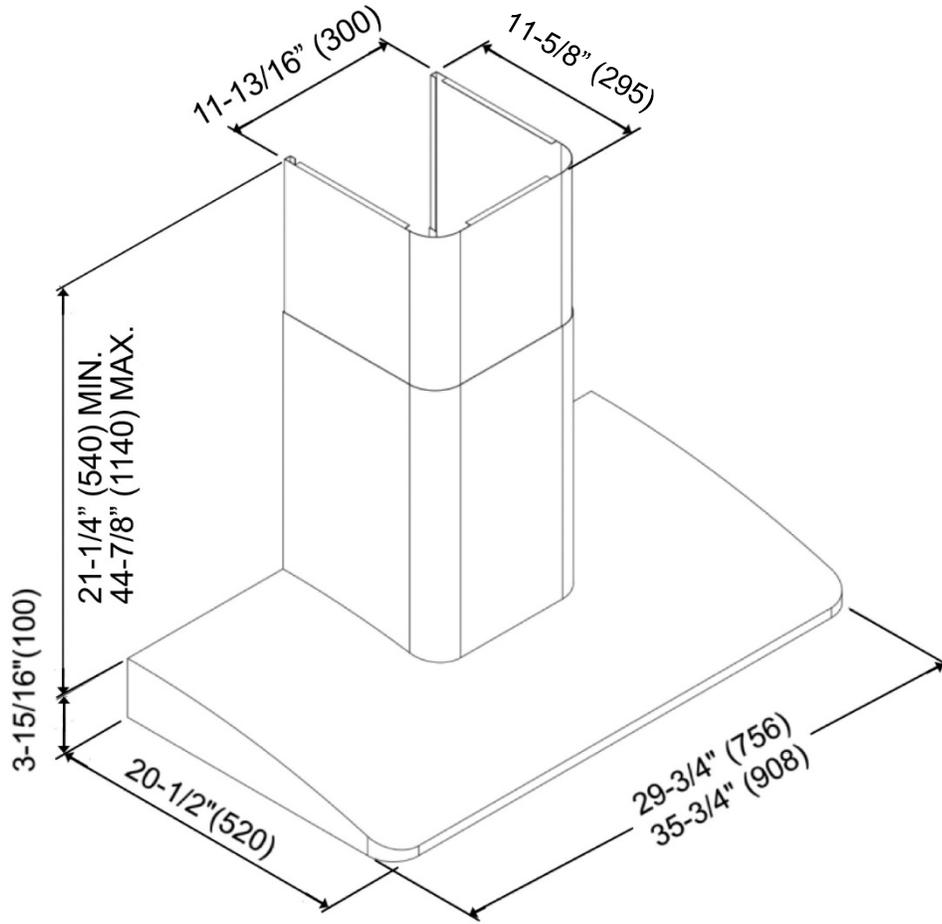
MODEL / SIZE	RA2230SQB-1 / 30" RA2236SQB-1 / 36"						
COLOR	18-Gauge Commercial Grade Stainless Steel						
CONSUMPTION / AMPERE	300W / 2.5A						
NUMBER OF BLOWER	1						
DESIGN	Seamless / Satin Finish						
BLOWER TYPE	Double Horizontal Squirrel Cage						
EXHAUST	Top 6" Round						
CONTROLS	Electronic Control (5 Buttons) with LED Display – 3-Minute Delay Shutoff ECO Mode						
ECO MODE	ECO Mode runs the range hood on the QuietMode™ setting for 10 minutes every hour to remove excess moisture, microscopic particles and odors to promote a cleaner kitchen environment.						
LIGHTS	3-Level Lighting 3-watt LED light x 2						
HOOD DIMENSION (W x D x H)	RA2230SQB-1 (29-3/4" x 20-1/2" x 3-15/16") RA2236SQB-1 (35-3/4" x 20-1/2" x 3-15/16")						
OPTIONAL ACCESSORIES (W x D x H)	1) 30" Stainless Steel Back Panel SSP30 (30" x 1/10" x 32") 2) 36" Stainless Steel Back Panel SSP36 (36" x 1/10" x 32")						
WEIGHT (lbs)			<u>Net</u>		<u>Gross</u>		
	RA2230SQB-1 (30")		38		51		
	RA2236SQB-1 (36")		42		58		
SPEED	QuietMode™	1	2	3	4	5	
Air Capacity (cfm)		300	420	510	590	640	750
Sone* (dB)		1.0 (40)	2.0 (50)	3.5 (58)	5.0 (63)	5.4 (64)	6.0 (66)

*One sone is equivalent to the sound of a refrigerator at 40 decibels.

**Specifications subject to change without notice.

MEASUREMENTS & DIAGRAMS

***All inch measurements are converted from millimeters. Inch measurements are estimated.
***All measurements in () are millimeters.

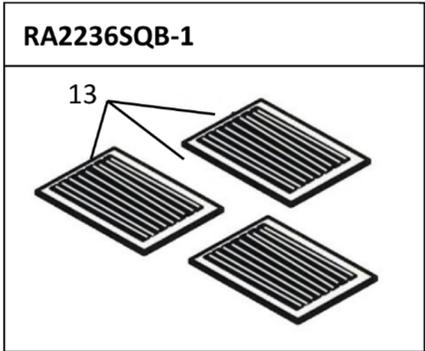
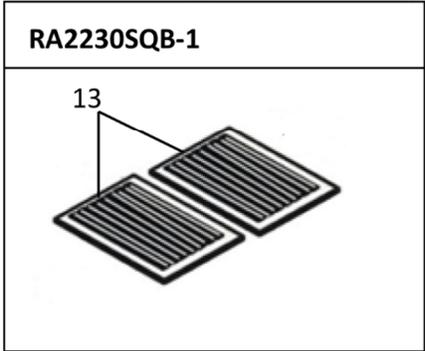
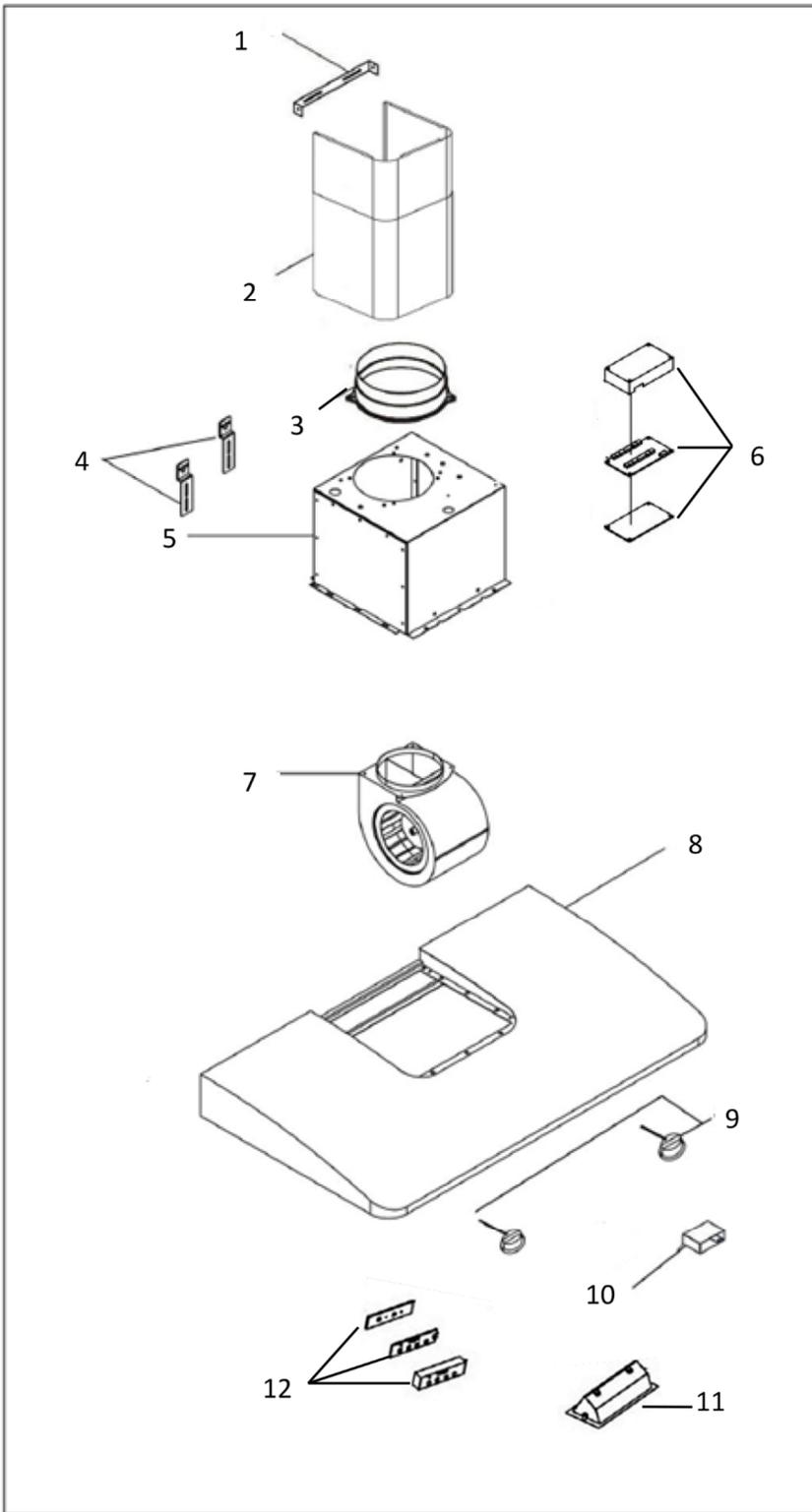


PARTS LIST

MODEL NO.: RA2230SQB-1 (30")
RA2236SQB-1 (36")

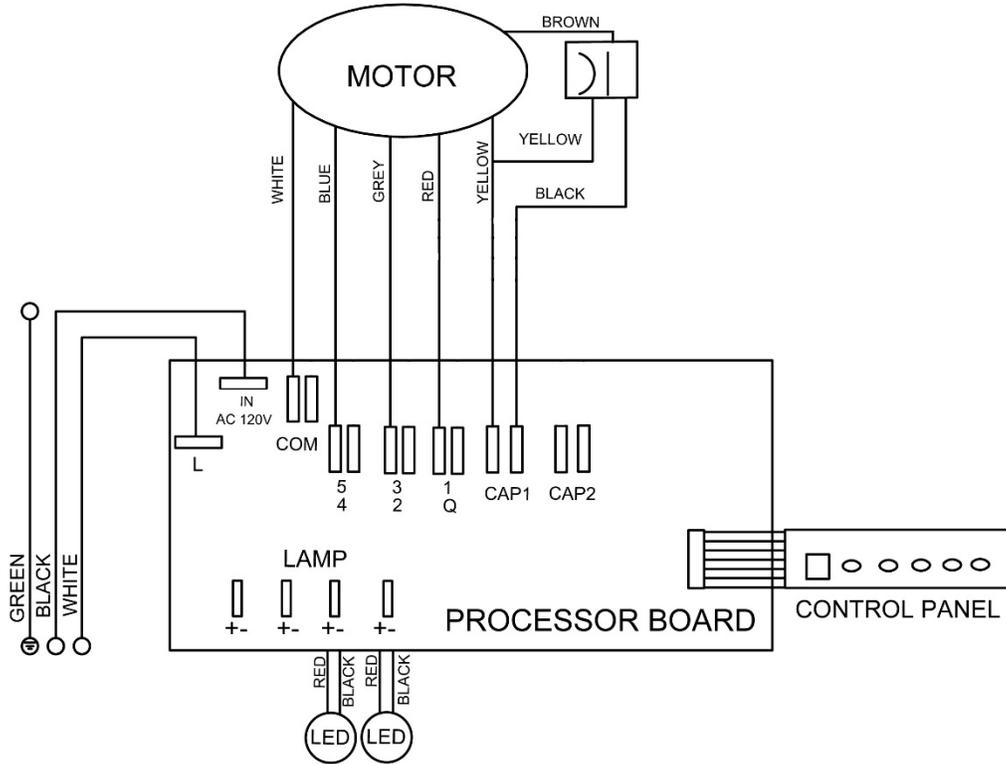
NO.	DESCRIPTION	MODEL /SIZE	PART NO.
1	Duct Cover-Mounting Bracket		L1-0203-0390
2	Duct Cover		12-2230R-61
3	6" Round Plastic Exhaust		L1-0505-0003
4	Hood-Mounting Bracket		L1-0221-0390
5	Motor Casing		L1-0106-2230R
6	Processor Board		L1-0404-6001-B
7	Motor		L1-0302-0120-802RO
8	Hood Casing	RA2230SQB-1	10-2230R
		RA2236SQB-1	10-2236R
9	LED Light (3W)		L1-0403-0301
10	Capacitor x 1PCS		L1-0401-0120-12
11	Control Panel Support		L1-0207-1630
12	Control Unit		L1-0404-6001-A
13	Baffle Filter		L1-0214-0122

MODEL NO.: RA2230SQB-1 (30")
RA2236SQB-1 (36")



CIRCUIT DIAGRAM

MODEL NO.: RA2230SQB-1 (30")
RA2236SQB-1 (36")



TROUBLE SHOOTING

Issue	Possible Cause	Solution
After Installation, both motors and lights are not working.	The power is not on.	Make sure the circuit breaker and the unit's power is ON. Use a voltage meter to check the power supply.
	The wire connection is not secure.	Check and tighten wire connection.
	The control panel and processor board wiring are disconnected.	Check wire continuity from control panel to processor board.
Lights are working, but motor(s) is not.	The control panel and processor board is defective.	Replace the control panel or processor board.
	The motor(s) is defective.	Replace the motor.
	The capacitor(s) is defective.	Replace capacitor(s).
The range hood is vibrating.	The control panel or processor board is defective.	Replace the control panel or processing board.
	The blower system is not secure.	Tighten the turbine impeller/squirrel cage and air chamber.
	The turbine impeller/squirrel cage is not balanced.	Replace the turbine impeller/squirrel cage.
The motor is working, but the lights are not working.	Hood is not secured in place.	Check the installation of hood, tighten the mounting bracket.
	LED light fixture(s) is defective.	Replace LED light fixture(s)
	The light wiring(s) is loose.	Check wire continuity from processor board to light transformer to LED light fixture(s).
The range hood is not venting out correctly.	The control panel or processor board is defective.	Replace the control panel or processing board.
	The range hood is installed outside of the manufacture recommended clearance.	Adjust the clearance between the range hoods and cook top to 26" to 30". For Island range hood, the clearance between the range hoods and cook top is 30" to 36".
	There is no make-up air inside the house.	Open the window to enhance the performance of the range hood by creating a sufficient make-up air.
	Obstacle blocking the pipe work.	Remove all obstacles from the duct work.
Cold air is coming into the home.	The pipe size is smaller than the suggested pipe size.	Change the ducting according to the manufacture suggestion.
	The pipe connection is not properly sealed.	Check the pipe installation.
	The damper is not properly installed or is missing from the installation.	Check the damper installation.

WARRANTY

WARRANTY CERTIFICATE

KOBE Range Hoods (referred to herein as “we” or “us”) warrants to the original purchaser (referred to herein as “you” or “your”) all products manufactured or supplied by us to be free from defect in workmanship and materials as follows:

TWO-YEAR LIMITED WARRANTY FOR PARTS AND LABOR ON KOBE PREMIUM SERIES:

For two years from the date of your original invoice from a KOBE authorized dealer, we will, at our sole discretion, choose to repair or replace the product free of charge that failed due to manufacturing defects.

It is your sole responsibility to ensure the product is readily accessible for the service technician to perform repairs. **The service technician will not, under any circumstance, remove, alter or modify any fixture built around and/or connected to the product to gain access to perform repairs.**

During the two-year Limited Warranty period, additional charges may apply which include but are not limited to:

- Service technician travel charges if the requested service location is 30-miles out of KOBE’s authorized service area
- Parts shipping expenses
- Un-installation of defective product and Installation of replacement product

Warranty Exclusions:

This warranty does not cover, including but not limited to the following:

- a. Improper installation.
- b. Any repair, alteration, modification not authorized by KOBE.
- c. Duct alteration, modification and connection.
- d. Incorrect electric current, voltage or wiring.
- e. Normal maintenance and service required for the product.
- f. Consumable parts such as light bulbs and carbon filters.
- g. Improper usage of the product that it is not intended for, such as commercial use, outdoor use and multi-family use.
- h. Normal wear and tear.
- i. Chips, scratches or dents by abuse or misuse of the product.
- j. Damages caused by accident, fire, flood and other Acts of God.
- k. Expenses incurred for service located outside of the designated service area.
- l. Purchases from unauthorized dealers.
- m. Removal fees of defective product and Installation fees associated with replacement product.

If we determine that the warranty exclusions listed above apply or if you fail to provide all necessary documentation for warranty service, you will be responsible for all expenses associated with the requested service, including parts, labor, shipping, travelling and any other expense related to the service request.

To qualify for warranty service, you must:

1. Have the **ORIGINAL** proof of purchase
2. Be the **ORIGINAL** purchaser of the product
3. Have the model number
4. Have the serial number
5. Have a description of the nature of any defect in the product or part

TO REQUEST WARRANTY SERVICE, PLEASE CONTACT THE KOBE RANGE HOODS SERVICE CENTER:

KOBE SERVICE CENTER (USA ONLY)

Toll Free: 1-855-800-KOBE (5623)

E-mail: kobe@adcoservice.com

For service in Canada and to report a problem, please contact:

Tel: 1-626-775-8880

Email: customer.service@koberangehoods.com

PRODUCT REGISTRATION

Fill in the blanks and keep this paper with the **original invoice** in a safe place for future service purpose.

1. Date of purchase : _____

2. Model No. : _____

3. Serial No. : _____

For warranty service or spare parts purchase contact:

KOBE Service Center (USA ONLY)

Toll Free: 1-855-800-KOBE (5623)

Email: kobe@adcoservice.com

For service in Canada and to report a problem, please contact:

Tel: 1-626-775-8880

Email: customer.service@koberangehoods.com

Your notes:



KOBE Range Hoods
11775 Clark Street
Arcadia, CA 91006 USA

www.koberangehoods.com

This KOBE hood is made for use in the USA and CANADA only. We do not recommend using this hood overseas as the power supply may not be compatible and may violate the electrical code of that country. **Using a KOBE hood overseas is at your own risk and will void your warranty.**

Cette hotte KOBE est fabriquée pour usage aux États-Unis et au Canada seulement. Il n'est pas recommandé d'utiliser cette hotte à l'étranger puisque l'alimentation électrique pourrait ne pas être compatible et enfreindre le code de l'électricité de ce pays. **L'usage de la hotte KOBE à l'étranger est à votre propre risque et la garantie sera annulée.**

Esta campana de extracción KOBE ha sido fabricada para ser utilizada únicamente en EE.UU. y CANADÁ. No recomendamos la utilización de esta campana en el extranjero debido a que la fuente de energía podría no ser compatible y podría violar el código eléctrico de dicho país. **Utilizar una campana KOBE en el extranjero será a su propio riesgo y anulará la garantía.**

VER.150505

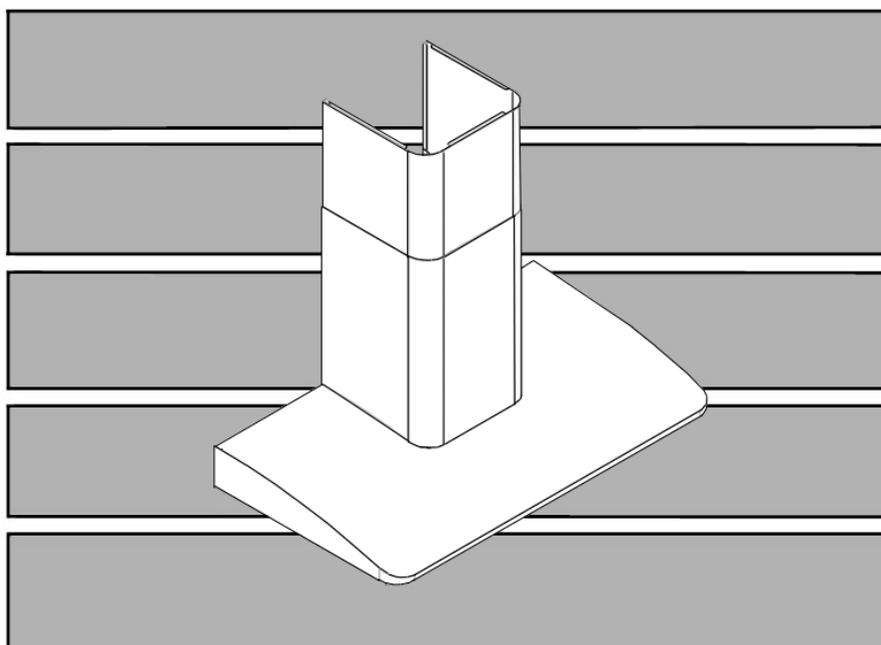
Information subject to change without notice.

KOBE® KOBE Brand Range Hood

Model No.

RA2230SQB-1 (30")

RA2236SQB-1 (36")



INSTALLATION INSTRUCTIONS
AND OPERATION MANUAL

IMPORTANT READ THIS FIRST

READ BEFORE INSTALLATION

1. Carefully check all contents of packages.
2. Thoroughly inspect the unit for any shipping damages, cosmetic damages or defects.
3. Have a certified contractor/electrician test the unit before installation.

IF THERE IS ANY PROBLEM:

1. **DO NOT INSTALL THE UNIT AND KEEP ALL ORIGINAL PACKAGING MATERIAL.**
2. Have your original invoice as proof of purchase and product serial number ready.
3. Contact your merchant for product replacement due to shipping damages, cosmetic damages or defects.
4. For all other issues, call 1-877-BUY-KOBE (289-5623), or e-mail to info@koberangehoods.com .

NO RETURN, NO REFUND, NO EXCHANGE IF:

1. PRODUCT HAS BEEN INSTALLED
2. KNOCK-OUT HOLES HAVE BEEN PUNCTURED
3. MISSING ORIGINAL PACKAGING MATERIAL
AND/OR PARTS

[ENGLISH]

- READ AND SAVE THESE INSTRUCTIONS -

CONTENTS

IMPORTANT SAFETY INSTRUCTIONS	1
COMPONENTS OF PACKAGE.....	3
INSTALLATION.....	4
OPERATING INSTRUCTIONS.....	7
MAINTENANCE.....	9
SPECIFICATIONS	10
MEASUREMENTS & DIAGRAMS.....	11
PARTS LIST.....	12
CIRCUIT DIAGRAM.....	14
TROUBLE SHOOTING.....	15
WARRANTY	16
PRODUCT REGISTRATION.....	18

- READ ALL INSTRUCTIONS CAREFULLY BEFORE STARTING -

ALL WIRING MUST BE DONE BY A PROFESSIONAL AND IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES



IMPORTANT SAFETY INSTRUCTIONS

- PLEASE READ THIS SECTION CAREFULLY BEFORE INSTALLATION -

⚠WARNING: TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PERSONAL INJURY, OBSERVE THE FOLLOWING:

- 1) Installation and electrical wiring must be done by qualified professionals and in accordance with all applicable codes and standards, including fire-rated construction.
- 2) When cutting or drilling into wall or ceiling, be careful not to damage electrical wiring or other hidden utilities.
- 3) Ducted fans must be vented to the outside.
 - a) Before servicing or cleaning unit, open the light panel and SWITCH POWER OFF AT SERVICE PANEL.
 - b) Clean all grease laden surfaces frequently. To reduce the risk of fire and to disperse air properly, make sure to vent air outside. DO NOT vent exhaust air into wall spaces, attics, crawl spaces or garages.

- NOTE
- This warranty is void without an authorized agent's receipt or if unit is damaged due to misuse, poor installation, improper use, mistreatment, negligence or any other circumstances beyond the control of KOBE RANGE HOODS authorized agents. Any repair carried out without the supervision of KOBE RANGE HOODS authorized agents will automatically void the warranty.
 - KOBE RANGE HOODS will not be held responsible for any damages to personal property or real estate or any bodily injuries whether caused directly or indirectly by the range hood.

⚠WARNING: TO REDUCE THE RISK OF PERSONAL INJURY IN THE EVENT OF A RANGE TOP GREASE FIRE:

1. Keep all fan, baffle/spacer/filter/oil tunnel/oil container and grease-laden surfaces clean. Grease should not be allowed to accumulate on fan, baffle/spacer/filter/oil tunnel/oil container.
2. Always turn hood ON when cooking.
3. Use high settings on cooking range ONLY when necessary.
4. Do not leave cooking range unattended when cooking.
5. Always use cookware and utensils appropriate for the type and amount of food prepared.
6. Use this unit only in the manner intended by the manufacturer.
7. Before servicing, switch power off at service panel and lock service panel (if possible) to prevent power from switching on accidentally.
8. Clean ventilating fan frequently.

What to Do In The Event Of a Range Top Grease Fire

- SMOTHER FLAMES with a tight fitting lid, cookie sheet, or metal tray, and then turn off the burner. KEEP FLAMMABLE OR COMBUSTIBLE MATERIAL AWAY FROM FLAMES. If the flames do not go out immediately, EVACUATE THE AREA AND CALL THE FIRE DEPARTMENT or 911.
- NEVER PICK UP A BURNING PAN – You May Get Burned.
- DO NOT USE WATER, including wet dishcloths or towels – a steam blast will result.
- Use an extinguisher ONLY if:
 - a) You have a Class A, B, C extinguisher and know how to operate it.
 - b) The fire is small and contained in the area where it started.
 - c) The fire department has been called.
 - d) You can fight the fire with your back to an exit.

What to Do If You Smell Gas

- Extinguish any open flame.
- Do not try to turn on the lights or any type of appliance.
- Open all doors and windows to disperse the gas. If you still smell gas, call the Gas Company and Fire Department right away.

⚠ CAUTION

- 1) For general ventilation use only. Do not use to exhaust hazardous or explosive materials and vapors.
- 2) To reduce the risk of fire, use only metal ductwork. Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) to prevent back drafting.
- 3) Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and code authorities.
- 4) Activating any switch on may cause ignition or an explosion.
- 5) Due to the size and weight of this hood, installation by 2 persons is recommended.

⚠ WARNING



ELECTRICAL SHOCK HAZARD – Can result in serious injury or death. Disconnect appliance from electric power before servicing. If equipped, the fluorescent light bulb contains small amounts of mercury, which must be recycled or disposed of according to Local, State, and Federal Codes.

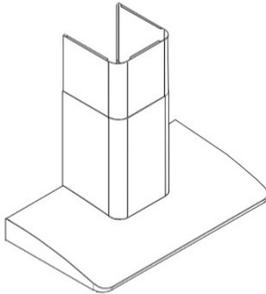
COMPONENTS OF PACKAGE

(Must keep all material for returns or refunds)

Range Hood Box

- {A} KOBE Range Hood
- {B} Warranty Registration Card
- {C} Quick Reference Guide
- {D} Baffle Filter x 2 (30" hood)
x 3 (36" hood)
- {E} Duct cover Mounting Bracket
- {F} Hood-Mounting Bracket x 2
- {G} Screws Package

{A}



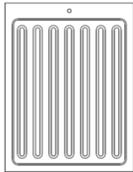
{B}



{C}



{D}

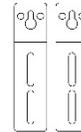


Knob attached to baffle filter

{E}



{F}



* Pre-installed

{G}



3/16 "x 3/8" (8PCS)

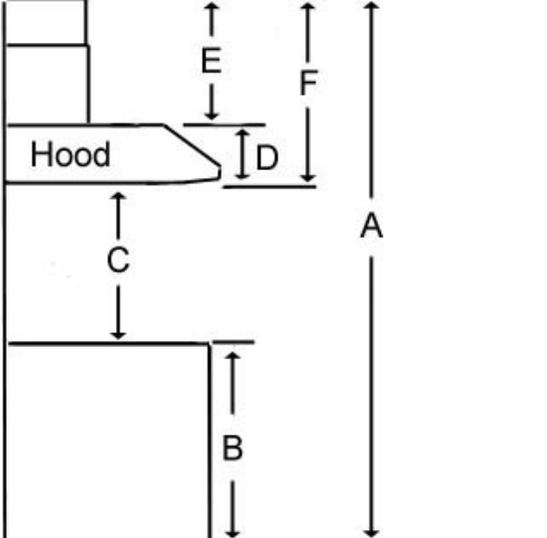
◆ FOR MORE INFORMATION, PLEASE VISIT OUR WEBSITE www.koberangehoods.com OR CONTACT KOBE RANGE HOODS AT (626) 775-8880.

INSTALLATION

PLEASE READ ENTIRE INSTRUCTIONS BEFORE PROCEEDING

Calculation before Installation

To calculate installation, please refer to TABLE 1. (All calculation in inches.)

TABLE 1	
<p>A = Height of Floor to Ceiling B = Height of Floor to Counter Top (Standard: 36") C = Preferred Height of Counter Top to Hood Bottom (Minimum 26" to 30") D = Height of Hood E = Height of Duct Cover [F – D] F = Height of the Hood Installation [A – (B+C)]</p>	 <p>The diagram illustrates the vertical dimensions for hood installation. It shows a cross-section of a kitchen counter and ceiling. Dimension A is the total height from the floor to the ceiling. Dimension B is the height from the floor to the counter top. Dimension C is the height from the counter top to the bottom of the hood. Dimension D is the height of the hood itself. Dimension E is the height of the duct cover above the hood. Dimension F is the total height from the counter top to the top of the duct cover. The hood is labeled 'Hood'.</p>

⚠ SAFETY WARNING

HOOD MAY HAVE VERY SHARP EDGES; PLEASE WEAR PROTECTIVE GLOVES IF REMOVING ANY PARTS FOR INSTALLING, CLEANING OR SERVICING.

NOTE: BE CAREFUL WHEN USING ELECTRICAL SCREWDRIVER, DAMAGE TO THE HOOD MAY OCCUR.

Preparation before Installation

NOTE: TO AVOID DAMAGE TO YOUR HOOD, PREVENT DEBRIS FROM ENTERING THE VENT OPENING.

- Decide the location of the venting pipe from the hood to the outside. (Figure 1)
- A straight, short venting run will allow the hood to perform more efficiently.
- Try to avoid as many transitions, elbows, and long run as possible. This may reduce the performance of the hood.
- Temporarily wire the hood to test for proper operation before installing.
- Important: Peel any protective film off the hood.
- Use duct tape to seal the joints between pipe sections.
- If necessary, prepare back wall frame with cross framing lumber for secure installation. Refer to Table 1 and measurements on Page 11 to decide the level of the lumber. (Figure 2)
- Loosen hood-mounting brackets at the back of the hood, adjust brackets and tighten screws as shown in Figure 3.
- If necessary, remove the rubber stand on the back of the hood and discard.

Hood Installation

⚠ CAUTION: USE HAND TOOLS ONLY. DO NOT OVER TIGHTEN SCREWS. IT MAY CAUSE DAMAGE TO THE HOOD.

⚠ CAUTION: If moving the cooking range is necessary to install the hood, turn off the power in an electric range at the main electrical box. SHUT OFF THE GAS BEFORE MOVING A GAS RANGE. And use a protective covering to protect cooktop and/or countertop from damage.

1. Using references in Table 1 and measurements on Page 11, mark the leveling locations point for hood-mounting bracket on the wall.
2. Secure two mounting screws (not provided) to the wall, leaving an 1/8" space from the wall. (Figure 4)
3. Align the hood-mounting bracket to the mounting screws on the wall and hang hood into place.

Figure 1

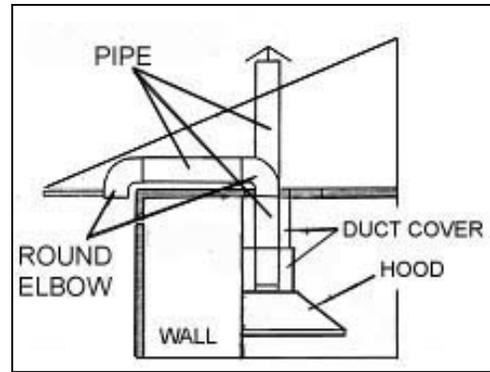


Figure 2

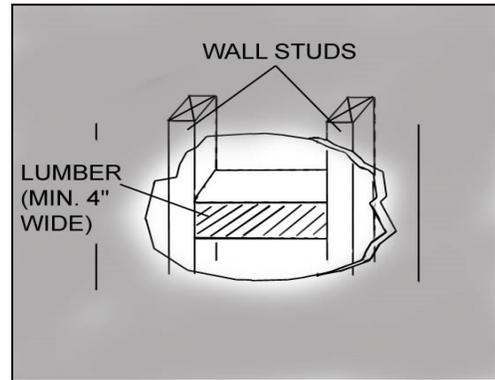


Figure 3

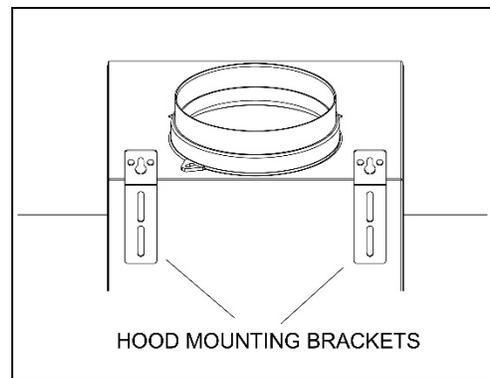
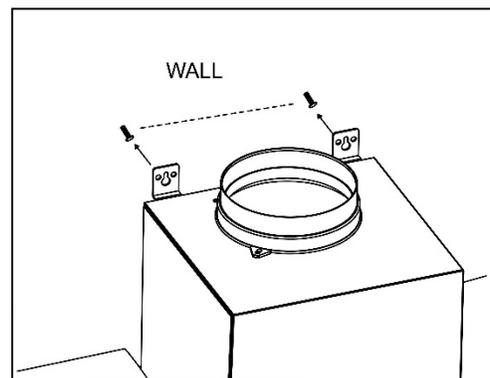


Figure 4



- Secure and tighten the mounting screws.

⚠ CAUTION: MAKE SURE THE HOOD IS SECURE BEFORE RELEASING.

Ductwork Installation

- Using Reference **E** from Table 1 and measurements on Page 12, mark the leveling point for duct cover-mounting bracket.
- Secure the duct cover-mounting bracket to the wall with two screws (not provided). (Figure 5 and Figure 8) Make sure all screws are tightened. NOTE: Inner duct cover will cover the duct cover-mounting bracket.
- Use 6" steel pipe (not provided) to connect the plastic exhaust on the hood to the ductwork above. Use duct tape to ensure all joints are secure and air tight as shown in Figure 6.

Wiring to Power Supply

⚠ THIS RANGE HOOD MUST BE PROPERLY GROUNDED. MAKE SURE THIS IS DONE BY QUALIFIED ELECTRICIAN IN ACCORDANCE WITH ALL APPLICABLE NATIONAL AND LOCAL ELECTRICAL CODES. BEFORE CONNECTING WIRES, SWITCH POWER OFF AT SERVICE PANEL AND LOCK SERVICE PANEL TO PREVENT POWER FROM BEING SWITCHED ON ACCIDENTALLY.

- Connect three wires (black, white and green) to house wires and cap with wire connectors. Connect according to color: black to black, white to white, and green to green.
- Test the operation of the hood before performing the next step. Make sure power is supplied to the hood.

Duct Cover Installation

- Slide inner duct cover up 2 inches before sliding entire duct cover onto the hood. (Figure 7)
- Align the inner duct cover to the duct cover-mounting bracket. Secure inner duct cover with two (3/16" x 3/8") screws (provided).
- Fasten outer duct cover to plastic plate on the hood with four (3/16" x 3/8") screws (provided).

Install / Uninstall Accessories

- Place baffle filters underneath the hood.

Final Assembly

- Turn power ON in control panel. Check all lights and fan operation.
- Leave this Installation Instructions and Operation Manual for the homeowner.

Figure 5

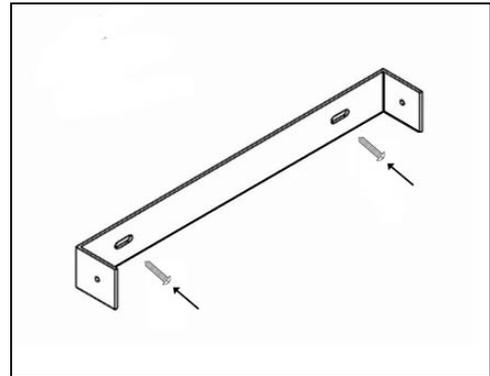


Figure 6

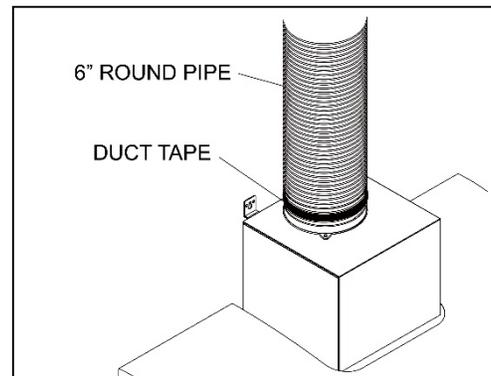
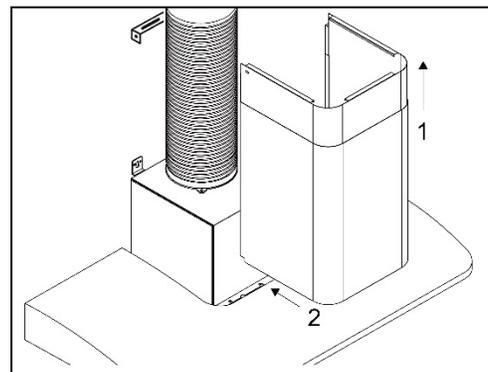
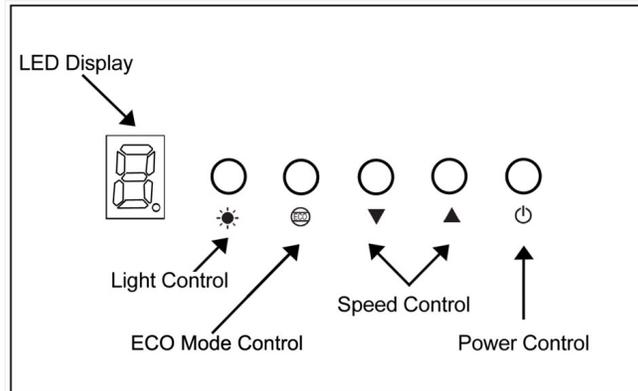


Figure 7



OPERATING INSTRUCTIONS



Note: For best results, turn fan on prior to any preparation or cooking and keep fans running while cooking. Adjust speed as needed.

Power Control

Press Power Control to turn On/Off the range hood.

Speed Control

The fan will start on Speed #3. Press  button to decrease the speed level. Press  button to increase the speed level.

To activate 3-minute delay shutoff, press and hold  button. Once the delay shutoff has been activated the LED Display will flash and fan speed will change to Speed #3. Speed level can be adjusted by pressing  or  button during the 3-minute countdown.

To turn fan off immediately, press  button a second time.

Light Control

Press  button to turn LED lights ON. Each press of  button will cycle the light intensity through Bright, Medium Bright, Dim, and OFF.

Lights are controlled independently from Power Control and delay shutoff. Turning the power off will not turn lights off.

ECO Mode Control

ECO Mode is set to turn fan on QuietMode™ setting for 10 minutes every hour to remove excess moisture, microscopic particles and odors for better kitchen air quality.

ECO Mode is independent from the Power Control and delay shutoff.

ECO Mode can be activated while fan is running or off. Press and hold  button until  icon briefly appears in the LED Display. While fan is running you can change the speed, use delay shutoff or turn off fan without disabling ECO Mode. When fan is off and ECO Mode has been activated, the  icon will appear in the LED Display. The  icon will flash while ECO Mode is operating on QuietMode™. To deactivate, press and hold  button until  icon no longer appears in the LED Display.

NOTE: Pressing  button while ECO Mode is active will activate the regular fan function and the speed will be displayed in LED Display.

Note: Must open door or windows to create sufficient make-up air when ECO Mode has been activated.

MAINTENANCE

For optimal performance, clean the range hood surface and baffles regularly.

To Clean Hood Surface

CAUTION: NEVER USE ABRASIVE CLEANERS, PADS, OR CLOTHS.

*** Regular care will help preserve its fine appearance.

1. Use only mild soap or detergent solutions. Dry surfaces using soft cloth.
2. If hood looks splotchy (stainless steel hood), use a stainless steel cleaner to clean the surface of the hood. Avoid getting cleaning solution onto or into the control panel. Follow directions of the stainless steel cleaner. **Caution: Do not leave on too long as this may cause damage to hood finish.** Use soft towel to wipe off the cleaning solution, gently rub off any stubborn spots. Use dry soft towel to dry the hood.
3. DO NOT allow deposits to accumulate or remain on the hood.
4. DO NOT use ordinary steel wool or steel brushes. Small bits of steel may adhere to the surface and cause rusting.
5. DO NOT allow salt solutions, disinfectants, bleaches, or cleaning compounds to remain in contact with stainless steel for extended periods. Many of these compounds contain chemicals, which may be harmful. Rinse with water after exposure and wipe dry with a clean lint free cloth.

For Baffle Filter models only: to Clean Baffle Filter/Oil Tunnel

CAUTION: DRAIN OIL FROM BAFFLE FILTERS, SPACERS & OIL TUNNEL REGULARLY TO PREVENT OVERFLOW.

1. Remove all the baffle filters, spacers and oil tunnel.
2. Using a sponge, wash with warm soapy water. Dry completely before returning into place.
CAUTION: SHARP EDGES
(Note: Baffle Filters are top rack dishwasher safe.)

SPECIFICATIONS

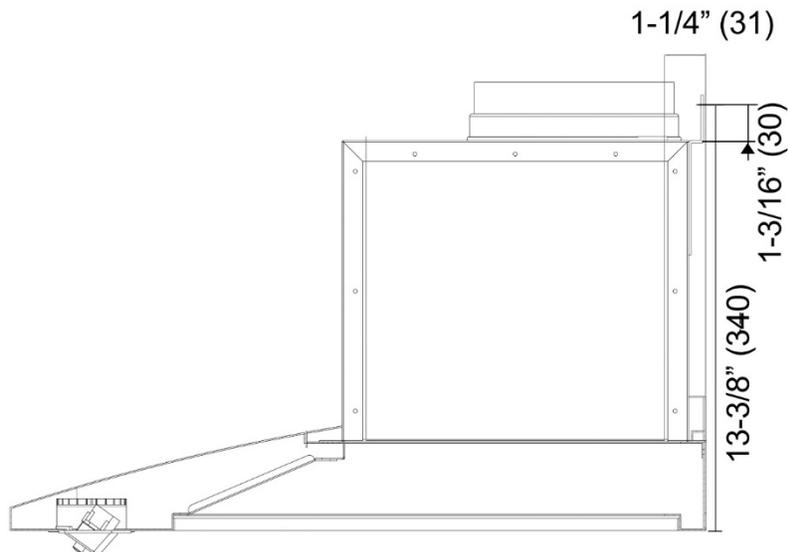
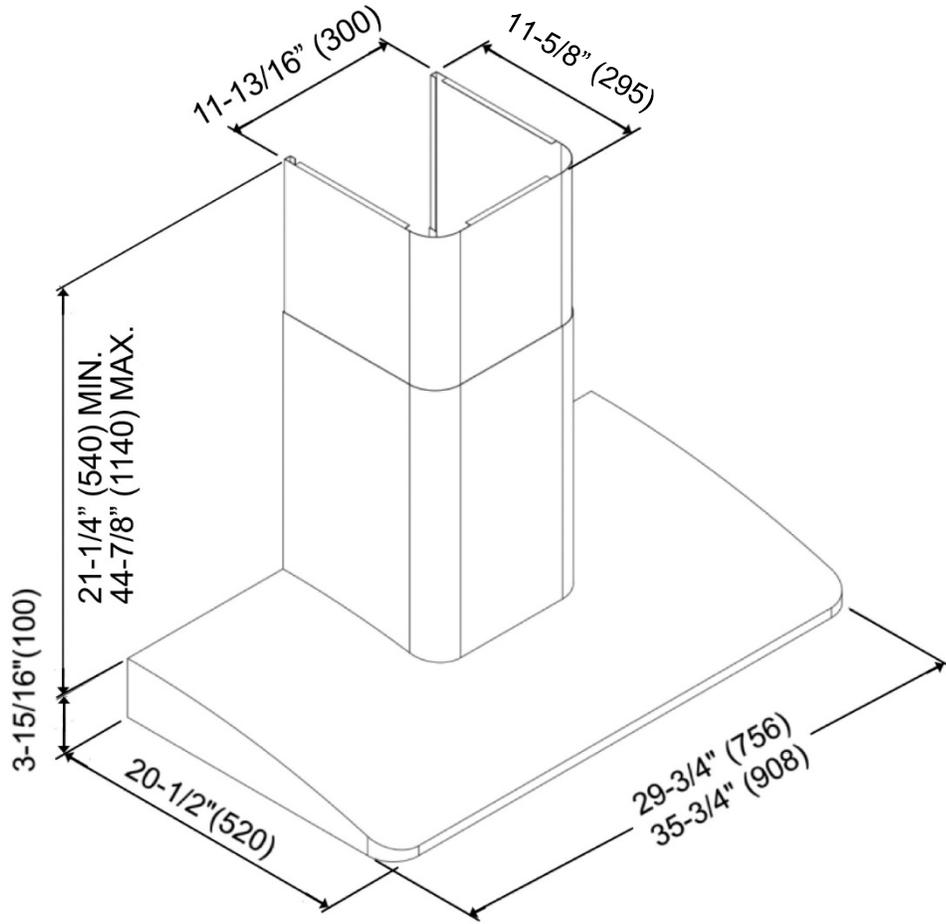
MODEL / SIZE	RA2230SQB-1 / 30" RA2236SQB-1 / 36"						
COLOR	18-Gauge Commercial Grade Stainless Steel						
CONSUMPTION / AMPERE	300W / 2.5A						
NUMBER OF BLOWER	1						
DESIGN	Seamless / Satin Finish						
BLOWER TYPE	Double Horizontal Squirrel Cage						
EXHAUST	Top 6" Round						
CONTROLS	Electronic Control (5 Buttons) with LED Display – 3-Minute Delay Shutoff ECO Mode						
ECO MODE	ECO Mode runs the range hood on the QuietMode™ setting for 10 minutes every hour to remove excess moisture, microscopic particles and odors to promote a cleaner kitchen environment.						
LIGHTS	3-Level Lighting 3-watt LED light x 2						
HOOD DIMENSION (W x D x H)	RA2230SQB-1 (29-3/4" x 20-1/2" x 3-15/16") RA2236SQB-1 (35-3/4" x 20-1/2" x 3-15/16")						
OPTIONAL ACCESSORIES (W x D x H)	1) 30" Stainless Steel Back Panel SSP30 (30" x 1/10" x 32") 2) 36" Stainless Steel Back Panel SSP36 (36" x 1/10" x 32")						
WEIGHT (lbs)			<u>Net</u>		<u>Gross</u>		
	RA2230SQB-1 (30")		38		51		
	RA2236SQB-1 (36")		42		58		
SPEED	QuietMode™	1	2	3	4	5	
Air Capacity (cfm)		300	420	510	590	640	750
Sone* (dB)		1.0 (40)	2.0 (50)	3.5 (58)	5.0 (63)	5.4 (64)	6.0 (66)

*One sone is equivalent to the sound of a refrigerator at 40 decibels.

**Specifications subject to change without notice.

MEASUREMENTS & DIAGRAMS

***All inch measurements are converted from millimeters. Inch measurements are estimated.
***All measurements in () are millimeters.



PARTS LIST

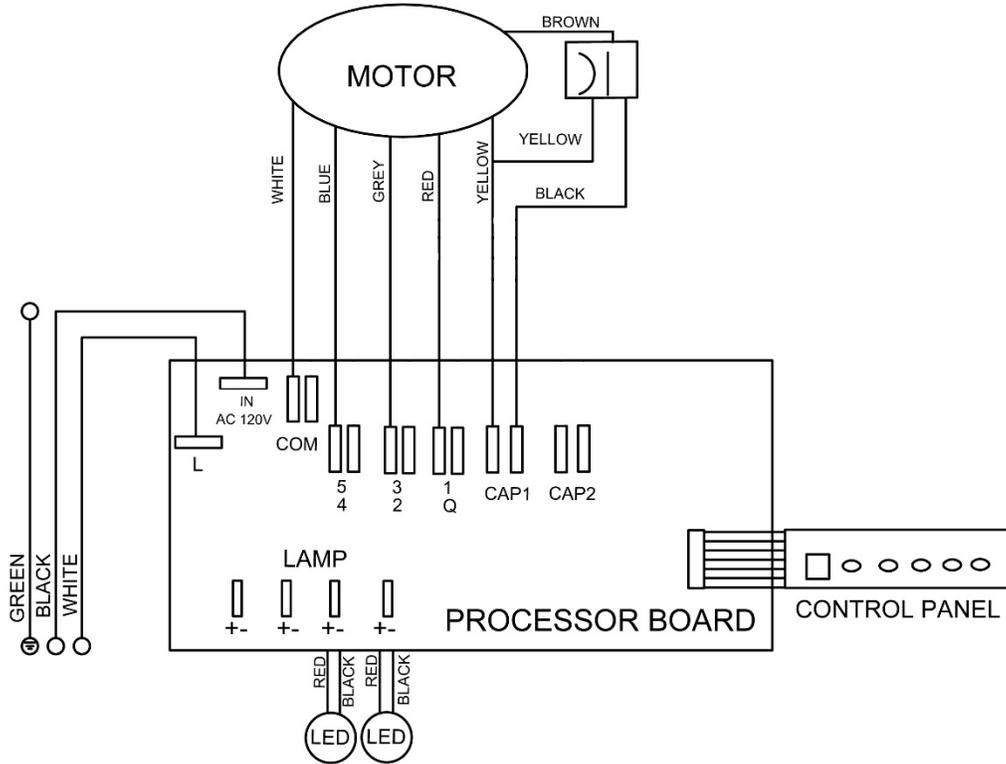
MODEL NO.: RA2230SQB-1 (30")
RA2236SQB-1 (36")

NO.	DESCRIPTION	MODEL /SIZE	PART NO.
1	Duct Cover-Mounting Bracket		L1-0203-0390
2	Duct Cover		12-2230R-61
3	6" Round Plastic Exhaust		L1-0505-0003
4	Hood-Mounting Bracket		L1-0221-0390
5	Motor Casing		L1-0106-2230R
6	Processor Board		L1-0404-6001-B
7	Motor		L1-0302-0120-802RO
8	Hood Casing	RA2230SQB-1	10-2230R
		RA2236SQB-1	10-2236R
9	LED Light (3W)		L1-0403-0301
10	Capacitor x 1PCS		L1-0401-0120-12
11	Control Panel Support		L1-0207-1630
12	Control Unit		L1-0404-6001-A
13	Baffle Filter		L1-0214-0122

MODEL NO.: RA2230SQB-1 (30")
RA2236SQB-1 (36")

CIRCUIT DIAGRAM

MODEL NO.: RA2230SQB-1 (30")
RA2236SQB-1 (36")



TROUBLE SHOOTING

Issue	Possible Cause	Solution
After Installation, both motors and lights are not working.	The power is not on.	Make sure the circuit breaker and the unit's power is ON. Use a voltage meter to check the power supply.
	The wire connection is not secure.	Check and tighten wire connection.
	The control panel and processor board wiring are disconnected.	Check wire continuity from control panel to processor board.
Lights are working, but motor(s) is not.	The control panel and processor board is defective.	Replace the control panel or processor board.
	The motor(s) is defective.	Replace the motor.
	The capacitor(s) is defective.	Replace capacitor(s).
The range hood is vibrating.	The control panel or processor board is defective.	Replace the control panel or processing board.
	The blower system is not secure.	Tighten the turbine impeller/squirrel cage and air chamber.
	The turbine impeller/squirrel cage is not balanced.	Replace the turbine impeller/squirrel cage.
The motor is working, but the lights are not working.	Hood is not secured in place.	Check the installation of hood, tighten the mounting bracket.
	LED light fixture(s) is defective.	Replace LED light fixture(s)
	The light wiring(s) is loose.	Check wire continuity from processor board to light transformer to LED light fixture(s).
The range hood is not venting out correctly.	The control panel or processor board is defective.	Replace the control panel or processing board.
	The range hood is installed outside of the manufacture recommended clearance.	Adjust the clearance between the range hoods and cook top to 26" to 30". For Island range hood, the clearance between the range hoods and cook top is 30" to 36".
	There is no make-up air inside the house.	Open the window to enhance the performance of the range hood by creating a sufficient make-up air.
	Obstacle blocking the pipe work.	Remove all obstacles from the duct work.
Cold air is coming into the home.	The pipe size is smaller than the suggested pipe size.	Change the ducting according to the manufacture suggestion.
	The pipe connection is not properly sealed.	Check the pipe installation.
	The damper is not properly installed or is missing from the installation.	Check the damper installation.

WARRANTY

WARRANTY CERTIFICATE

KOBE Range Hoods (referred to herein as “we” or “us”) warrants to the original purchaser (referred to herein as “you” or “your”) all products manufactured or supplied by us to be free from defect in workmanship and materials as follows:

TWO-YEAR LIMITED WARRANTY FOR PARTS AND LABOR ON KOBE PREMIUM SERIES:

For two years from the date of your original invoice from a KOBE authorized dealer, we will, at our sole discretion, choose to repair or replace the product free of charge that failed due to manufacturing defects.

It is your sole responsibility to ensure the product is readily accessible for the service technician to perform repairs. **The service technician will not, under any circumstance, remove, alter or modify any fixture built around and/or connected to the product to gain access to perform repairs.**

During the two-year Limited Warranty period, additional charges may apply which include but are not limited to:

- Service technician travel charges if the requested service location is 30-miles out of KOBE’s authorized service area
- Parts shipping expenses
- Un-installation of defective product and Installation of replacement product

Warranty Exclusions:

This warranty does not cover, including but not limited to the following:

- a. Improper installation.
- b. Any repair, alteration, modification not authorized by KOBE.
- c. Duct alteration, modification and connection.
- d. Incorrect electric current, voltage or wiring.
- e. Normal maintenance and service required for the product.
- f. Consumable parts such as light bulbs and carbon filters.
- g. Improper usage of the product that it is not intended for, such as commercial use, outdoor use and multi-family use.
- h. Normal wear and tear.
- i. Chips, scratches or dents by abuse or misuse of the product.
- j. Damages caused by accident, fire, flood and other Acts of God.
- k. Expenses incurred for service located outside of the designated service area.
- l. Purchases from unauthorized dealers.
- m. Removal fees of defective product and Installation fees associated with replacement product.

If we determine that the warranty exclusions listed above apply or if you fail to provide all necessary documentation for warranty service, you will be responsible for all expenses associated with the requested service, including parts, labor, shipping, travelling and any other expense related to the service request.

To qualify for warranty service, you must:

1. Have the **ORIGINAL** proof of purchase
2. Be the **ORIGINAL** purchaser of the product
3. Have the model number
4. Have the serial number
5. Have a description of the nature of any defect in the product or part

TO REQUEST WARRANTY SERVICE, PLEASE CONTACT THE KOBE RANGE HOODS SERVICE CENTER:

KOBE SERVICE CENTER (USA ONLY)

Toll Free: 1-855-800-KOBE (5623)

E-mail: kobe@adcoservice.com

For service in Canada and to report a problem, please contact:

Tel: 1-626-775-8880

Email: customer.service@koberangehoods.com

PRODUCT REGISTRATION

Fill in the blanks and keep this paper with the **original invoice** in a safe place for future service purpose.

1. Date of purchase : _____

2. Model No. : _____

3. Serial No. : _____

For warranty service or spare parts purchase contact:

KOBE Service Center (USA ONLY)

Toll Free: 1-855-800-KOBE (5623)

Email: kobe@adcoservice.com

For service in Canada and to report a problem, please contact:

Tel: 1-626-775-8880

Email: customer.service@koberangehoods.com

Your notes:



KOBE Range Hoods
11775 Clark Street
Arcadia, CA 91006 USA

www.koberangehoods.com

This KOBE hood is made for use in the USA and CANADA only. We do not recommend using this hood overseas as the power supply may not be compatible and may violate the electrical code of that country. **Using a KOBE hood overseas is at your own risk and will void your warranty.**

Cette hotte KOBE est fabriquée pour usage aux États-Unis et au Canada seulement. Il n'est pas recommandé d'utiliser cette hotte à l'étranger puisque l'alimentation électrique pourrait ne pas être compatible et enfreindre le code de l'électricité de ce pays. **L'usage de la hotte KOBE à l'étranger est à votre propre risque et la garantie sera annulée.**

Esta campana de extracción KOBE ha sido fabricada para ser utilizada únicamente en EE.UU. y CANADÁ. No recomendamos la utilización de esta campana en el extranjero debido a que la fuente de energía podría no ser compatible y podría violar el código eléctrico de dicho país. **Utilizar una campana KOBE en el extranjero será a su propio riesgo y anulará la garantía.**

VER.150505

Information subject to change without notice.