



INSTALL

FOR QUESTIONS OR CONCERNS PLEASE CALL: 1-800-999-3267 Hours: 8am - 4:30pm Central Time

WARNINGS

- For general ventilation control use only.
- Do not use to control the flow of hazardous, corrosive, flammable or explosive materials and vapors.
- Never expose this product to temperatures exceeding 140°F (60°C).
- Always leave this product accessible for maintenance, cleaning and repair.
- Before installing or servicing this product, switch power off at the service panel and lock service to prevent power from being switched on accidentally.
- Suncourt® Inc. assumes no responsibility for the installation of this product.
- Suncourt® does not provide electrical connection information beyond what is provided herein.
- If in doubt, contact a competent contractor.
- For your safety and protection follow all instructions and adhere to applicable building and electrical codes.
- To reduce the risk of fire, electric shock or injury to persons, observe all instructions.
- Maintain a minimum clearance of 4" (10 cm) from any combustible material or surface to the damper electric motor.
- This damper must never be used to control the flow of combustion air, flue gas or other toxic or hazardous gases or applications where failure of the damper can cause damage to persons, property or equipment and/or create a risk of fire, suffocation or death.
- Only Suncourt® equipment should be powered by the provided current switch.
- Check local building codes for wiring specifications and requirements.

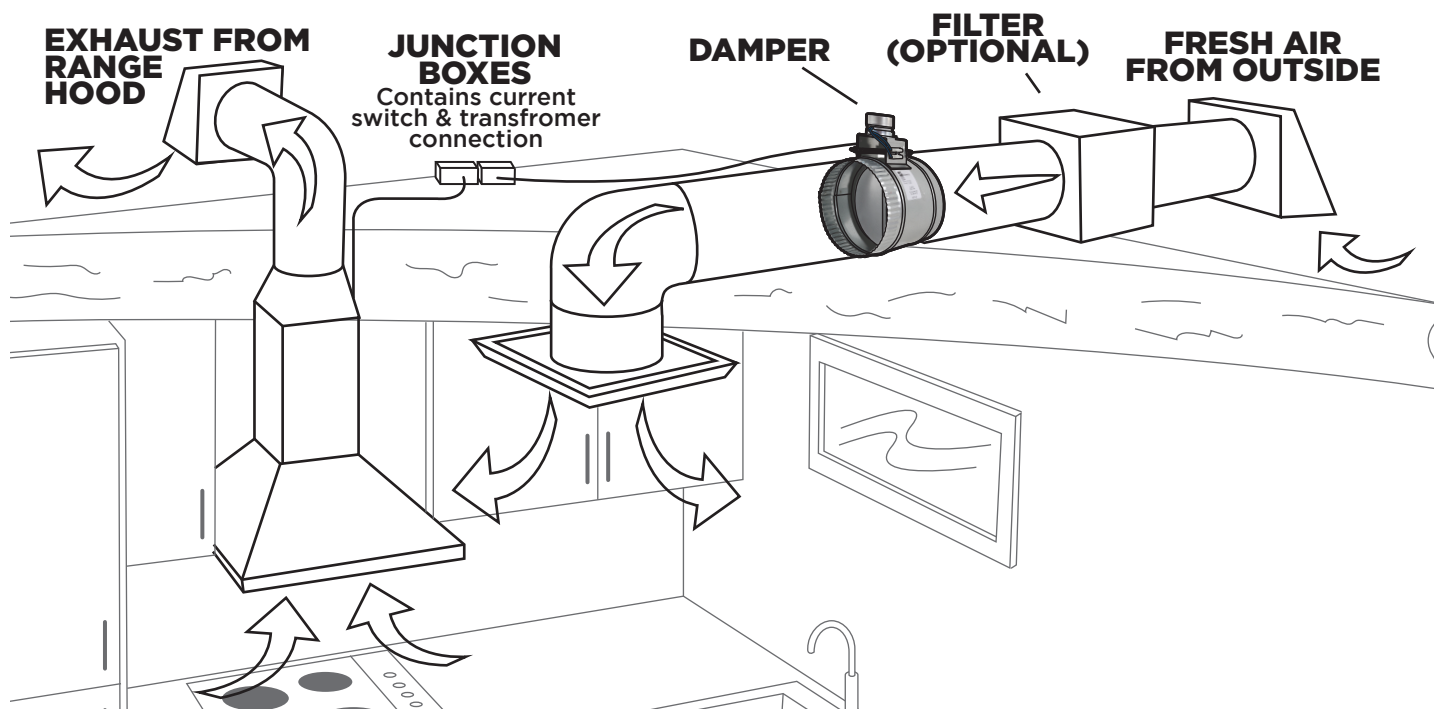
KIT INCLUDES

1. Motorized Damper
2. Current Switch
3. Stud Mount 24V Transformer

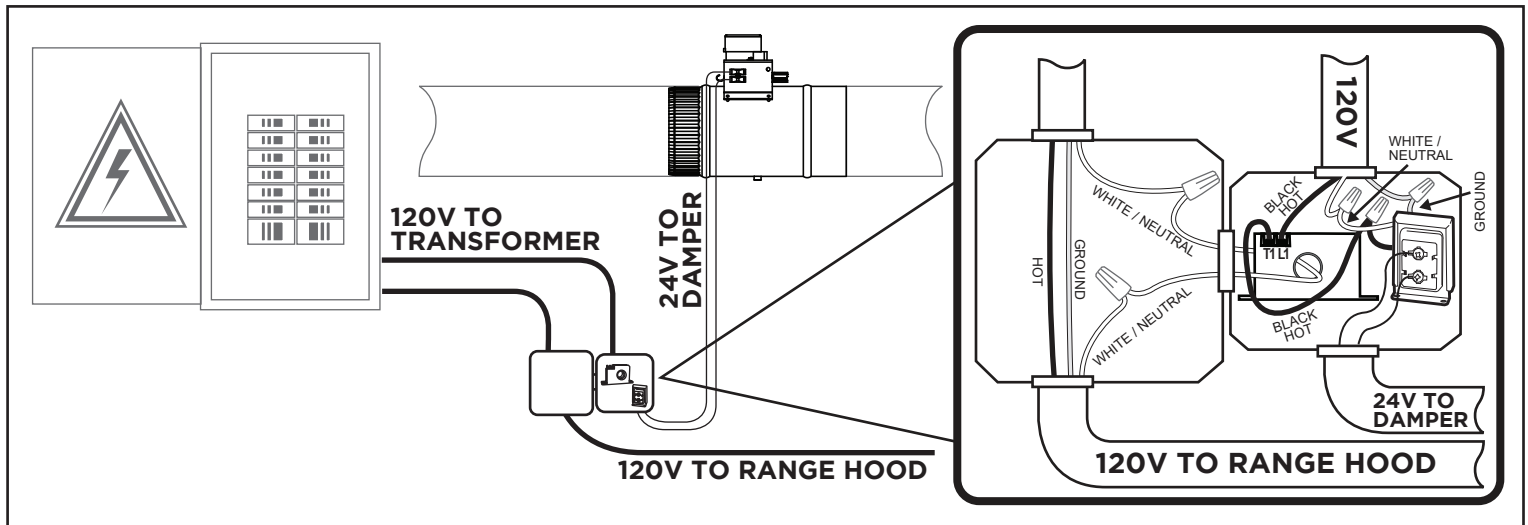
INSTALLATION

1. Start by planning your make-up air intake system ductwork routing.
2. If possible find a location for the motorized damper approximately mid-way in the duct run.
3. Leave approximately 6" of gap in the ductwork in the location which the damper will install.
4. Shut off power before next steps are taken.
5. Install electrical junction boxes in the vicinity of the range hood and make-up air intake system. One is needed to house the current switch / transformer and one to house the range hood power supply.
6. Make the electrical connections to current switch and damper. Refer to the wiring diagram.

NOTE: You have the ability to adjust the damper blade position for customized airflow



WIRING DIAGRAM



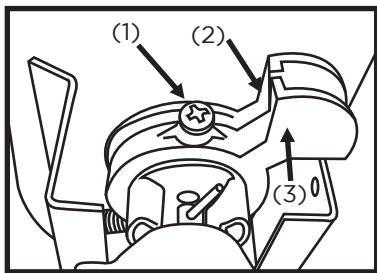
MAINTENANCE

Suncourt® recommends that you clean your damper at regular intervals to keep it free from lint, dust and debris. The damper must never be exposed to temperatures over 140°F (60°C).

ADJUSTABLE DAMPER PLATE POSITION

The amount of airflow through your motorized damper in either the powered or unpowered position can be adjusted by changing the final or initial position (angle) of the damper plate.

The position of the damper plate is controlled by the coupler mechanism. When the unit is powered, the motor will rotate the coupler mechanism counter-clockwise until the final "powered" plate position is reached. Once power is removed, a spring will pull the coupler mechanism clockwise until the plate is returned to the initial "unpowered" position.



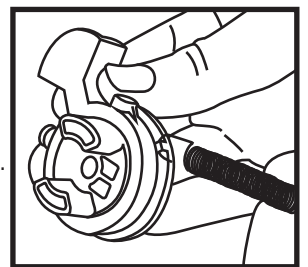
The coupler mechanism consists of 3 parts:

(1) Set Screw

(2) Inner Ring with Inner Arm

(3) Outer Ring with Outer Arm

- The set screw (1) locks the Outer ring in place.
 - The Inner Ring with Inner Arm (2) is attached to the damper shaft.
 - The Outer Ring with Outer Arm (3) can be rotated to change the plate angle at the beginning or end of the power cycle.
 - The sides of each Outer and Inner Arm will contact the motor bracket to limit the motion of the damper plate.
- Unpowered position is shown in this image.*



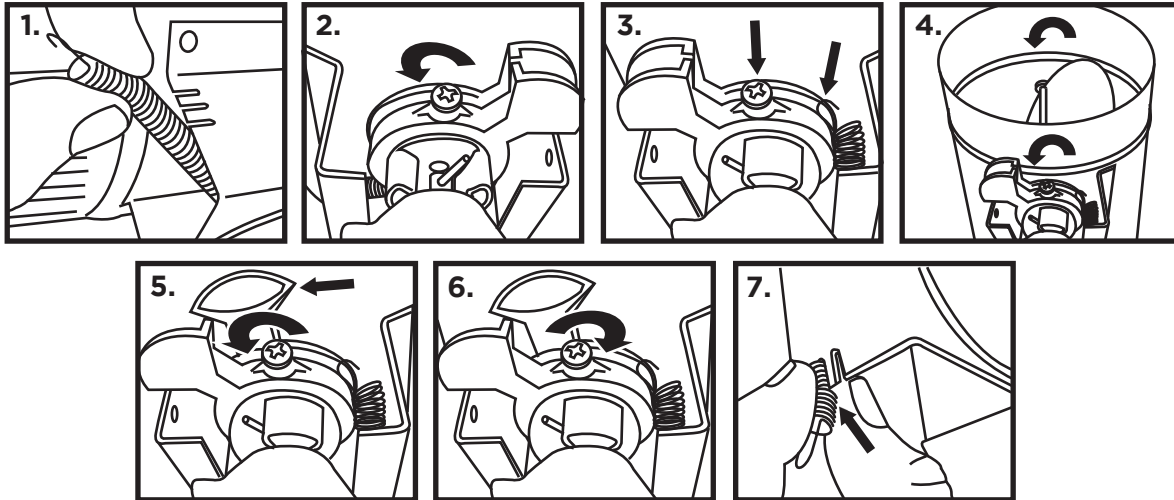
Proper spring location on coupler.

- The unit is configured at the factory for 100% open and closed plate positions
- Determine if you wish to change the plate position when powered or unpowered.
- Repositioning the Outer Ring counter-clockwise will alter the plate position when powered and leave the unpowered plate position unaffected.
- Repositioning the Outer Ring clockwise will alter the plate position when unpowered and leave the powered plate position unaffected.
- The extent of outer ring rotation will directly correlate to the change in plate position angle when powered or unpowered.
 - More **Counter-Clockwise** Outer Ring rotation will be less open when powered and fully closed when unpowered.
 - More **Clockwise** Outer Ring rotation will be less closed when unpowered and fully open when powered.

ADJUSTABLE DAMPER PLATE POSITION (CONT)

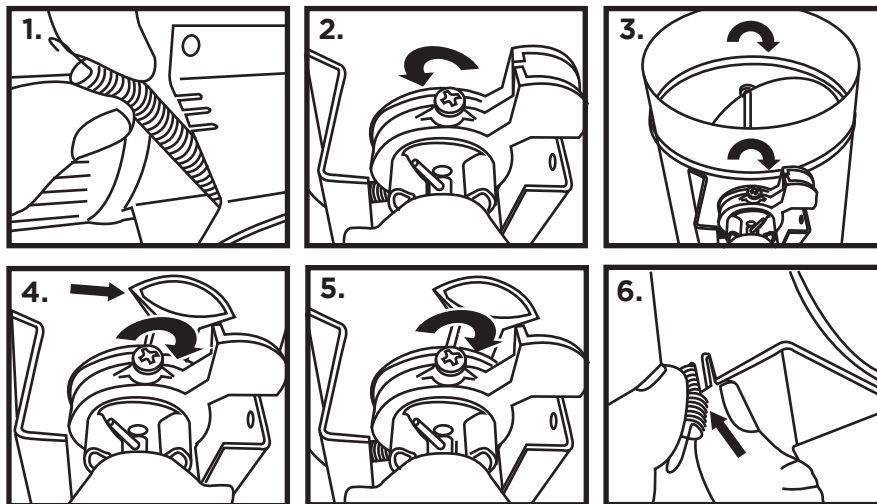
Powered open position adjustment:

1. Detach the spring from the motor bracket. **Make note of the excess spring length below the bracket. This is important in setting the proper spring return force.**
2. Loosen the set screw in the Outer Ring and remove.
3. Move the screw to the boss on the right side of the Outer Arm, but do not tighten fully.
4. Rotate the plate to the intended open position using the Inner Arm.
5. While maintaining the intended plate position, rotate the Outer Arm counter-clockwise until it contacts the motor bracket.
6. Make sure that the Outer Ring is fully seated on the Inner Ring and tighten the set screw until it is 'seated'. **!Do not overtighten the set screw. Never use a powered drill driver!**
7. Reattach the spring to the motor bracket. Ensure that the spring has the correct excess length as noted above.



Unpowered spring-return position adjustment:

1. Detach the spring from the motor bracket. **Make note of the excess spring length below the bracket. This is important in setting the proper spring return force.**
2. Loosen the set screw in the Outer Ring until the Outer Ring can freely rotate independent of the Inner Ring.
3. Rotate the plate to the intended closed position using the Inner Arm.
4. While maintaining the intended plate position, rotate the Outer Arm clockwise until it contacts the motor bracket.
5. Make sure that the Outer Ring is fully seated on the Inner Ring and tighten the set screw until it is 'seated'. **!Do not overtighten the set screw. Never use a powered drill driver!**
6. Reattach the spring to the motor bracket. Ensure that the spring has the correct excess length as noted above.



THREE YEAR LIMITED WARRANTY

Subject to the following limitations, Suncourt Inc. (manufacturer) warrants that the ZoneMaster™ Motorized Adjustable Damper will, for 3 (three) years from date of original retail purchase, remain free from appearance of defects in workmanship or materials. This warranty is subject to the following limitations: (a) manufacturer's liability is limited to the replacement or repair of the unit, as decided by the manufacturer; (b) a defective unit must be returned, prepaid, with proof of purchase, well packaged to avoid damage in transit; and (c) this warranty does not apply to defects resulting from the alteration, abuse, accidental damage, unauthorized repair, or misuse of the unit. This warranty is given in lieu of all other warranties, guarantees, and conditions on manufacturer's part, and the manufacturer shall have no tortious or other liability in respect to this ZoneMaster™ Motorized Adjustable Damper. Ship unit to Suncourt Inc. only after obtaining a Return Goods Authorization (RGA) number. Returns without this RGA number will not be accepted. Actual product appearance may differ from illustrations. Suncourt reserves the right to modify any or all of its products' features, designs, components and specifications without notice.