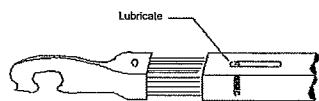


...MAINTENANCE: THE KEY TO KEEPING YOUR AWNING WORKING AND LOOKING GOOD

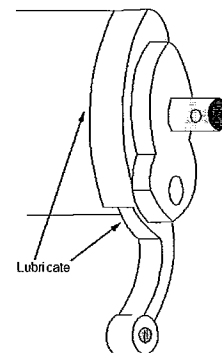
Just a little TLC and your Zip Dee awning can give you quality service for 15 to 20 years! Because a Zip Dee awning is usually trouble free, it often gets taken for granted. It hangs outside your coach, being scoured by blistering heat, freezing cold, blasting sand, and even acid rain. Yet, when the coach gets washed and the windows get squeegeed, the awnings often just get a rinse and a promise. The two main parts of the awning, the **hardware** and the **fabric**, need your attention for only a few hours each year.

The **hardware** of your awning (that's everything that's not fabric) needs to be cleaned and lubricated. The rules are simple: Wipe off (use soap and water for stubborn dirt) all parts you can reach. Spray lubricant on any that can't be wiped off. Use **aerosol Silicone Lubricant**, not WD-40 or grease which can attract dirt and doesn't leave a lasting film.

The telescoping bars and tubes of each arm can be slid completely apart, one arm at a time, and wiped off. Flush out the inside of the tubes with water from a pressure hose. No lubrication needed.



For parts that don't come apart, flush and spray. The little spring loaded locking snaps on each arm don't come apart, so spray them with lubricant. Flush out the springs trapped in the rafter arms (near the claw-shaped casting) then spray into the slot with Silicone. In general, lubricate everything that moves or rotates, like the ends of the roller tube. Spray into the gaps between two moving parts like you would spray for ants.

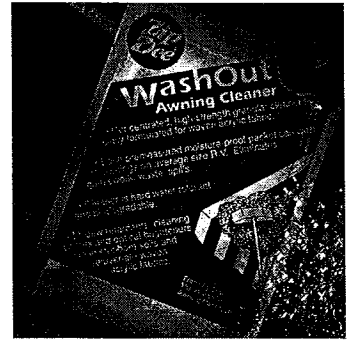


The bright finish of the aluminum will dull over the years. Chrome polish will help a little for appearance. For a luster, spray on Silicone, not for the lubrication, but for the shine. Finally, use a 7/16" socket wrench to tighten every nut and bolt you can see. Nothing should be loose.

Care of the **fabric** is easier...and harder. Easier because just a monthly hosing off with clear water (no soap) keeps the material looking better, longer. This helps prevent dirt from becoming deeply embedded in the fibers and eliminates the need for more frequent deep cleaning. Mildew is the main destroyer of most woven fabric. However, because Sunbrella® is made of non-organic acrylic fibers, it doesn't support mildew fungus. But dirt can! Pollen, seeds, leaves and even bird droppings on fabric can lead to mildew growth that can stain an awning fabric. That's why you want to hose off the fabric.

What makes Sunbrella® fabric so special is that it is woven of colored acrylic fibers that give it brilliant color, easy cleaning and long life, compared to the extruded plastic sheets that other awnings use. The weave lets it "breathe," which is why it dries so quickly with only air exposure and doesn't drip on you in humid weather. The fabric is treated with a fluorocarbon finish that makes it water repellent, (not waterproof). Spray can come through in a hard rain, but with care, the finish can last the life of the awning.

Every two or three years, a thorough cleaning is needed. Don't just wait for the fabric to look dirty. That gives dirt a chance to set and the stains may not come out. Deep cleaning is not hard. Brush off the loose dirt, hose the awning down then scrub the awning with a clean, soft bristle brush using Zip Dee **WashOut** powder concentrate, or one of the solutions provided by Sunbrella® on the following pages. They are also available on our website at www.zipdeeinc.com under instructions, maintenance. There is also a video provided by Sunbrella®. You can link to it from our website under instructional videos.



Allow the soap to soak in by rolling the awning closed for 10 - 15 minutes, then rinse very, very thoroughly. The air will dry the awning fast.

Not surprisingly, all this information and more is in your Zip Dee Owners Manual that is probably buried under all the other instructions and information that came with the coach. A copy is now available on our website, www.zipdeeinc.com under Instructions, Owners Manuals.

Finally, a few hints about operation: Two questions most often asked are “How much wind can the open awning handle?” and “How much rain is too much?” Although there are technical answers to each, the practical guide is this: If it is too windy for you to sit under the awning, it's probably too windy for the awning. Don't use the awning to collect rainwater - barrels do a better job. Do whatever is needed to make water run off! That may mean lowering both sides of the awning! I know, the door rubs. But, if you are gone or asleep, no one is going in and out. Play it safe.

For more information, Parts Lists or Manuals, see our website at www.ZipDeeinc.com or call Zip Dee at 1-800-338-BEST (2378). You'll always talk to a knowledgeable service person, not a machine.



AWNINGS

care and cleaning

One of the best ways to keep Sunbrella® fabrics looking good and to delay the need for deep or vigorous cleaning is to hose fabrics off on a monthly basis with clear water. This practice will help prevent dirt from becoming deeply embedded in the fabric and eliminate the need for more frequent vigorous cleaning. In most environments, a thorough cleaning will be needed every two to three years.

When it's time for a thorough cleaning, Sunbrella fabrics can be cleaned while still on an awning frame or, size permitting, they can be removed for cleaning in a washing machine.

When cleaning Sunbrella fabrics, it is important to observe the following:

- Always use a mild soap such as Ivory Snow, Dreft or Woolite.
- Water should be cold to lukewarm. (Never more than 100°F/38°C.)
- Rinse thoroughly to remove all soap residue.
- Air dry only. Never apply heat to Sunbrella fabrics.

General or light cleaning

To clean Sunbrella while still on an awning frame, follow these simple steps:

- Brush off loose dirt.
- Hose down.
- Prepare a cleaning solution of water and mild soap such as Ivory Snow, Dreft or Woolite (no detergents).
- Use a soft bristle brush to clean.
- Allow cleaning solution to soak into the fabric.
- Rinse thoroughly until all soap residue is removed.
- Air dry.
- May not require re-treatment depending on the age of the fabric.

If stubborn stains persist, you can use a diluted chlorine bleach/soap mixture for spot cleaning of mildew, roof run-off or other similar stains (see our Stain Chart for specific recommendations).

Heavy cleaning for stubborn stains and mildew

Sunbrella fabric does not promote mildew growth, however, mildew may grow on dirt and other foreign substances that are not removed from the fabric. To clean mildew, or other stubborn stains:

- Eight ounces (1 cup) of chlorine bleach.
- Two ounces (1/4 cup) of mild soap and/or detergent.
- One gallon of water.
- Clean with soft bristle brush.
- Allow mixture to soak into fabric for up to 15 minutes.
- Rinse thoroughly until all soap residue is removed.
- Air dry.
- Repeat if necessary.
- Re-treatment of fabric for water and stain resistance will be necessary.

Remember to protect the area around your Sunbrella if using a bleach solution. Carpet or other fabrics that are not Sunbrella may have an adverse reaction to the bleach. If an awning is suitable in size for a washing machine, these steps should be followed:

- Use mild soap and/or detergent.
- For heavier stains add 1 cup of bleach to wash.
- Wash and rinse in cold water.
- Air dry. Never apply heat to Sunbrella.
- Re-treatment for water and stain resistance will be necessary after machine washing.

Re-treating the fabric

As part of the finishing process, Sunbrella fabrics are treated with a fluorocarbon finish, which enhances water repellency. This finish is designed to last for several years, but must be replenished after a thorough cleaning. Based on test results, Glen Raven recommends 303 High Tech Fabric Guard™ as the preferred re-treatment product for Sunbrella fabrics.

Fabrics should be re-treated after thorough cleaning or after five years of use.

For more information on re-treatment products, please visit www.303products.com.

*Synthetic fabric heat settings normally do not exceed 150°F/66°C.

Applying 303 High Tech Fabric Guard

303 should be applied to Sunbrella fabrics after each thorough cleaning, which typically removes the original finish and reduces the fabric's water repellency.

- Clean Sunbrella fabric, using one of the cleaning methods.
- Allow Sunbrella to completely air dry.
- Apply 303 Fabric Guard in a well ventilated area following instructions on the container.
- Apply 303 in a thin, even coat and allow fabric to dry completely.
- Apply a second thin, even coating of 303. (Two light coatings are more effective in restoring fabric water resistance than a single heavy coating.)
- A 15-ounce bottle provides coverage of up to 50 square feet of fabric.)

For more information, please visit www.303products.com.

Professional awning cleaners

You may have access to professional awning cleaning firms. In evaluating the services of a professional firm, you should inquire about a firm's experience in working with Sunbrella fabrics and knowledge of cleaning and re-treatment requirements. **DO NOT** dry clean Sunbrella fabrics.

Helpful hints

Protect the area around the Sunbrella fabric when using a bleach solution – bleach may discolor non-Sunbrella fabrics. Always rinse Sunbrella thoroughly to completely remove bleach.

Sunbrella air dries very quickly. Machine drying is not necessary.

If fabric has some wrinkling, use an iron, if necessary, but only on the synthetic* setting. As some irons exceed the recommended 100°F/38°C temperature on the synthetic setting, test a small inconspicuous area before ironing entire piece.

DO NOT use a steamer or iron set to steam setting.

Use of bleach and/or advanced age of the fabric application may impact the deterioration of the sewing thread and other non-Sunbrella components.



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REVISED 12/5/08

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STAIN CHART

This chart contains our recommended cleaning methods of Sunbrella® fabric for some of the most common and toughest stains. You may also use Carbona Stain Devil cleaning products. Available from national retailers, Carbona provides 9 formulas made to get out different types of stains. Apply the number indicated for your stain.

STAIN	RECOMMENDED CLEANING SOLUTIONS	CARBONA STAIN DEVIL NO.
BEER	Dawn® dishwashing liquid (2 oz.) / 1 gallon water / white vinegar (3 oz.)	8
BERRY	Dawn® dishwashing liquid (2 oz.) / 1 gallon water / ammonia (4-8 oz.)	8
BIRD DROPPINGS	Dawn® dishwashing liquid (2 oz.) / 1 gallon water, or try Goo Gone Grease Cutter (a hand cleaner), Greased Lightning, or Clean Rite Purple Power (available at Wal-Mart, K-Mart, etc.)	
BLOOD (DRIED)	Dawn® dishwashing liquid (2 oz.) / 1 gallon water / ammonia (4-8 oz.)	4
BUTTER	volatile solvent (acetone) 100%	5
CHARCOAL, PENCIL MARKS	vacuum, then Dawn® dishwashing liquid (2 oz.) / 1 gallon water	3
CATSUP OR MUSTARD	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	2
CHEWING GUM	volatile solvent (acetone) 100%	1
CHOCOLATE	Dawn® dishwashing liquid (2 oz.) / 1 gallon water / ammonia (4 oz.)	2
COFFEE	Dawn® dishwashing liquid / water, white vinegar, volatile solvent (acetone)	8
COLA	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	8
CRAYON	paint remover (100%), oil or grease remover (mix as directed)	3
EGG (RAW)	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	4
GRAPE JUICE	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	8
GRAVY	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	2
GREASE (CAR)	volatile solvent (acetone) 100%	5
INK (PERMANENT, INDIA, BALLPOINT)	paint remover (100%), volatile solvent (acetone) 100%, soap and water	3
IRON RUST	Carbona™ Stain Devil #9	9
LIPSTICK	paint remover, oil or grease remover (mix as directed)	6
MASCARA	paint remover (100%), volatile solvent (acetone-100%), Dawn® dishwashing liquid (2 oz.) / 1 gallon water	8
MILDEW	bleach (1 cup) / Dawn® dishwashing liquid (2 oz.) / 1 gallon water	4
MILK	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	8
NAIL POLISH	volatile solvent (acetone) 100%	1
OIL	volatile solvent (acetone) 100%	5
ORANGE DRINK	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	8
PAINT (LATEX) WET	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	1
PAINT (LATEX) DRIED	paint remover (100%), oil or grease remover (mix as directed)	1
PAINT (OIL OR LACQUER)	paint remover (100%), oil or grease remover (mix as directed)	5
SHOE POLISH (LIQUID)	volatile solvent (acetone) 100%	7
SHOE POLISH (WAX)	apply heated iron over towel, volatile solvent (acetone) 100%	1
SUNTAN LOTION	Pine Power® or pine oil detergent / water (mix as directed)	5
TEA	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	8
TOMATO JUICE	Dawn® dishwashing liquid (2 oz.) / 1 gallon water	2
TREE SAP	turpentine (100%), Dawn® dishwashing liquid (2 oz.) / 1 gallon water	7
URINE	Dawn® dishwashing liquid (2 oz.) / 1 gallon water / white vinegar (3 oz.)	8
VOMIT	Dawn® dishwashing liquid (2 oz.) / 1 gallon water / white vinegar (3 oz.)	8
FOOD COLOR	Dawn® dishwashing liquid (2 oz.) / 1 gallon water / white vinegar (3 oz.)	6
WAX (CANDLE)	apply heated iron over towel, volatile solvent (acetone) 100%	1
WINE	Dawn® dishwashing liquid (2 oz.) / 1 gallon water / ammonia (4-8 oz.) / white vinegar (3 oz.)	8



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REVISED 3/31/10

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