Overview

This instruction bulletin provides detailed procedures for successful applications of 3M™ Wrap Film Series 2080 (“2080”). This includes instructions specific to challenging aspects of film application on personal vehicles, including deep recesses and contours, and other difficult applications. Failure to follow these procedures may result in wrinkled installations and/or lifting from contoured areas.

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Tools*

* Product availability varies by region. Contact a local sales representative or application engineer for details.

Cleaning Products and Tools

- A mixture of 70% isopropyl alcohol and 30% water (IPA)
- Lint-free microfiber cloths
- Solvents appropriate to removing difficult contaminants such as tar, tree sap, waxes, and polishes
- Air compressor
- Water
- Mild soap, free from waxes
- 3M™ Perfect-It™ Clean and Shine
- 3M™ Perfect-It™ Clay Bar
- Appropriate personal protective equipment as specific in the cleaning products’ product literature

This list of cleaners is provided for your convenience; other acceptable cleaners may be available. 3M does not endorse any particular chemical manufacturer or supplier.

Application Tools

- 3M™ Plastic Applicator (squeegee) PA-1
- 3M™ Air Release Tool 391X
- 3M™ Tape Primer 94
- 3M™ Adhesion Promoter 111
- 3M™ Knifeless™ Tape
- Snap-off cutting knives or razor blades in safety holders
- Scotch™ Masking Tape - 1 in. to 2 in. (2.5 cm to 5.1 cm) roll
- Industrial heat gun capable of attaining at least 500°F (260°C)
- Wrap gloves

Pre-installation Inspection Record

3M recommends installers complete a properly executed and signed pre-installation inspection record before applying any 3M film. Such a record identifies any potential problem areas. Fill out a copy of the pre-installation inspection record located at the end of this bulletin for each vehicle.

3M recommends installers seek written limitations of claims or liabilities on individual vehicles for unsound paint.

Considerations When Installing 3M™ Wrap Film Series 2080

- **Stretching:** While 3M™ Wrap Film Series 2080 (“2080”) is more conformable than previous similar 3M films and requires less heat during installation, it is NOT cold stretch capable. It is designed to be conformed to the vehicle surface with heat.
- **Protective Film Layer:** Gloss and high gloss 2080 films come with a clear protective film layer (PFL) designed to reduce surface impressions during installation. The PFL can remain on throughout an entire installation, even when applied to complex, curved surfaces. While the PFL may remain on during installation and is compatible with 3M™ Knifeless™ Tape, it MUST be removed prior to post-heating or the application of an overlaminate.
- **Directional Arrows on the Liner:** Gloss, textured, metallic, pearl, and color-flip 2080 films feature directional arrows on the liner of each roll to help guide installers. High gloss 2080 films do NOT have the directional arrow on the liner but some of these high gloss films DO exhibit directionality characteristics. It is very important to install these high gloss films in a consistent orientation across the entire installation. 3M recommends checking the film’s orientation prior to installation to ensure its color and directionality will match across the entire installation.

⚠ WARNING

A static electricity discharge can occur when removing the liner, creating sparks and igniting flammable vapors. Only use 3M™ Wrap Film Series 2080 in safe environments.

- **Color Matching:** Use film from the same lot for an entire installation to ensure color consistency across the vehicle.
- **Textured 2080 Films:** These films are especially sensitive to overstretching. Installers should apply heat and stretching to large areas rather than working in small increments, as working in smaller areas can cause “denting” in the film. 3M also recommends using the felt edge of a squeegee and a slip agent when installing textured 2080 films to help minimize scratching.
- **Use of Torches:** Using torches on matte, satin, and textured 2080 films will gloss them over, a defect that is NOT reversible. 3M strongly recommends heat guns as the preferred heat source for installing 2080 films.
- **Use of Grease Pencils:** Do NOT use grease pencils on matte, satin, or textured 2080 films as they can scratch and stain the films. Grease pencils and other markers can be used on gloss and high gloss 2080 films *as long as* the PFL is still in place.

Vehicle Sensors, Radar, and Autonomous Equipment

The 3M warranty for 2080 is for aesthetics and film integrity when installed and stored appropriately per technical literature and warranty guidance. It is the vehicle owner’s and/or manufacturer’s responsibility to ensure a 2080 installation is compatible with any and all sensors or similar equipment prior to film installation.

To help ensure the sensors perform as expected, NEVER obstruct or cover them with film. Users should test the application and confirm no signal disruption or other deficiencies have occurred as a result of a film installation prior to returning the vehicle to regular use.

Application Environment and Temperature

Ensure the application environment is clean and well lit and sweep the work area clean to remove an loose dirt or particles. Additionally, use a clean table top to handle film. Do NOT place film on the floor. The film will bond to any contaminants between its adhesive and the vehicle substrate, inhibiting adhesion and increasing the chance of installation failures.

Generally speaking it is best practice to apply film when the air and vehicle surface are both above 60°F (16°C).

Cool Application Conditions

If the temperature is too cool, move the vehicle indoors to bring its surface temperature up to at least the minimum application temperature. Below the recommended minimum application temperature:

- Films cool too quickly and are unable to maintain the elevated temperatures required for stretching.
- The initial adhesive bond may be insufficient to ensure the film stays adhered.
- Moisture may condense on the vehicle surface if the vehicle’s surface temperature is below the dew point.
- In very humid conditions, it may be difficult to keep the substrate dry.

Very Warm Application Conditions

If the temperature is too warm, move the vehicle indoors or into the shade and ensure the vehicle's surface cools to below 90°F (32°C) before starting the installation.

Above the recommended maximum application temperature:

- Film may pre-adhere and trap air.
- The adhesive will be more aggressive.
- Controltac™ films may lose their positionability feature.
- The film may stretch.

Vehicle Preparation

All vehicles should be washed prior to being delivered to the instillation shop, but installers should still consider them to be contaminated. For color change installations, 3M recommends a dedicated day for thoroughly cleaning and inspecting the vehicle, followed by additional cleaning on a panel-by-panel basis immediately prior to film installation on a particular panel. Dust and other contaminants can collect quickly on the substrate and prevent the film from adhering properly. See the 3M Vehicle Prep for Success Guide for additional details.

Full Vehicle Pre-Cleaning

NOTE

Replace cleaning cloths as they become dirty. Dirty cloths will simply move contaminants around, rather than remove them.

NOTE

IPA evaporates very quickly. Always wipe the surface dry before it evaporates. The evaporation rate increases in warm and/or windy environments.

1. Inspect the vehicle with the customer to identify any damage that may affect film installation.
2. Remove any gross debris.
3. Clean the entire vehicle surface with mild soap and warm water.
4. Apply compressed air to remove moisture and dust from all confined or tight spaces on the vehicle.
5. Clean each of the vehicle's wheels and wheel wells with clean, lint-free microfiber cloths and a mixture of 70% isopropyl alcohol and 30% water (IPA).
6. Clean the wrap area and all areas near the wrap area (such as the windshield, wipes, hood edges, trunk, doors, and door jambs) with clean, lint-free microfiber cloths and IPA.
7. Clean the gaps along molding and seals with a squeegee wrapped in a clean, lint-free microfiber cloth sprayed with IPA.
8. Remove difficult contaminants—such as tar, tree sap, waxes, and polishes—from the vehicle surface using a clean, lint-free microfiber cloth soaked in an appropriate solvent.
9. Wet the vehicle with 3M™ Perfect-It™ Clean and Shine or a mixture of water and mild soap.
10. Scrub the vehicle with a piece of 3M™ Perfect-It™ Clay Bar to remove particular matter.
11. Clean the vehicle's entire surface with clean, lint-free microfiber cloths sprayed with IPA.

Installation Day Cleaning

Dust and other contaminants quickly accumulate on the vehicle's surface, requiring installers to clean individual panels immediately prior to film being installed on that panel.

1. Clean the panel with clean, lint-free microfiber cloths and IPA.
2. Ensure the vehicle surface is completely dry prior to starting the application.
3. Immediately begin installing film on the freshly cleaned panel.

General Application Techniques

Squeegee Technique

This is a general squeegee technique applicable to most vehicle shapes. However it may not be feasible when applying film to recesses where the squeegee blade can not make full contact with the vehicle surface.

Proper squeegee technique is critical for achieving smooth, bubble free installations. Straight, even movements with firm squeegee pressure is usually the best way to apply film. Adjust squeegeeing direction as necessary to ensure there is always a pathway for air to escape from under the film. Make narrow, even passes using a consistent squeegee pressure and angle as film is installed. 3M recommends holding the squeegee against the film at roughly a 45 degree angle. Installers may need to reduce this angle to help reduce the potential for wrinkles or film fold over during installation.

1. Wet a buffered squeegee with 70% isopropyl alcohol and 30% water to reduce friction and scratching during application.
2. Hold the squeegee at approximately a 45 degree angle. (Installers may need to reduce this angle to help reduce the potential for wrinkles or film fold over during installation.)
3. Start in the center of the film (if possible) and apply firm pressure on the squeegee. Always squeegee the shortest distance from the center of the film out to the edges of the installation area.
4. Ensure the squeegee completely passes the film edge with each pass to ensure it properly adheres to the vehicle.
5. Overlap each squeegee pass over the previous one by 50 percent.
6. Installers should hold the remaining film away from the surface as they work their way down the graphic.

Use 3M™ Tape Primer 94

Identify all areas on the vehicle where film may tend to lift such as in concave channels, inside wheel wells, and other underside vehicle areas.

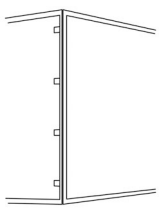
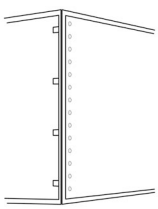
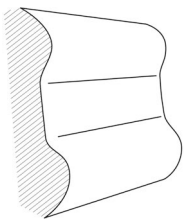
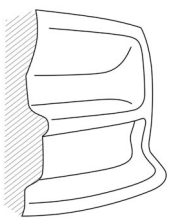
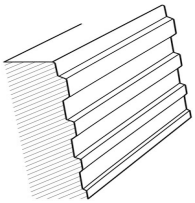
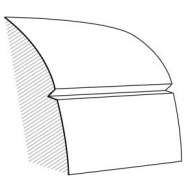
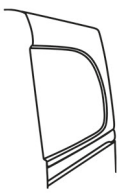
3M recommends, but does not require, the use of 3M™ Tape Primer 94 to promote better film adhesion where the film will be under stress, as it reduces the chances of film lifting, and can be especially helpful in deep recesses.

- In concave channels, apply a thin layer of primer over most of the concave area. Allow the primer to dry.
- When going around convex areas, apply a thin layer of primer at the outer edges of the curve to prevent film edge lifting. Allow the primer to dry for five minutes.
- For the most effective bond, and to avoid contamination, install the graphic within one hour of applying the primer.

Vehicle Shapes

It is important for installers to recognize the shapes of the vehicles, as 2080 films install best by working through the vehicles shapes in a specific order.

Table A. Vehicle Shapes

Flat	Rivets	Simple Curves	Compound Curves	Corrugations	Deep Channels & Recesses
✓	✓	✓	✓	✓	✓
					 

1. Start with flat areas where the film lays naturally flat on the vehicle.
2. Next (if applicable) apply film to complex-compound areas where film will require a level of pre-stretching in order to conform to the area. This includes areas such as bumpers, mirrors, and door handles.
3. Then shape the film to compound shapes where the rounded shape of the vehicle prevents film from lying flat naturally.
4. Finally apply film to recesses and channels with tighter valleys.

How to Use Heat to Soften Film

Heat 2080 films to 104°F to 122°F (40°C to 50°C) to soften the film when conforming it around and into complex curves.

1. Gently conform the film after the heat source is removed, allowing the film to gradually cool. Wear a wrap glove to aid installation and reduce friction during installation.
2. To apply film into concave channels, use a wrap glove, or a squeegee with a low friction sleeve or Scotchmate™ loop material applied to the edge. First press the heated and softened film into the middle of the channel so the film is stretched evenly across the channel. See Figure 1.

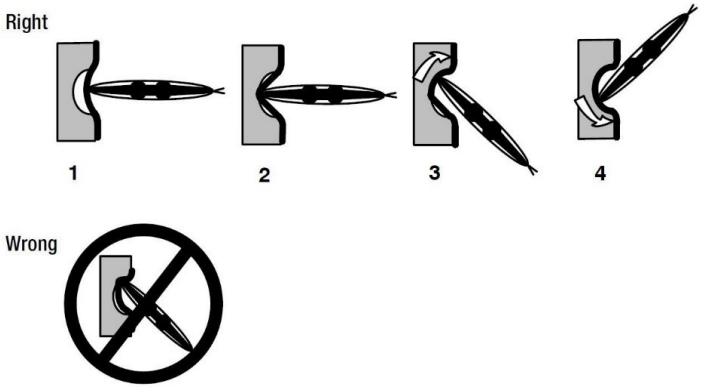


Figure 1. Technique for Stretching Heated Film Into Channels

Use Heat in Post-Application

1. Strive for a bubble-free applications. Although puncturing air bubbles improves the appearance of the graphic, it can contribute to premature graphic failure if the film is torn or cut rather than neatly punctured.

   When removing bubbles is necessary:

   a. Reheat film (especially in any recessed areas and deep channels) with a heat gun. This can help detect overlooked air bubbles.
   b. Puncture any remaining air bubbles with the 3M™ Air Release Tool 391X.
   c. Firmly push any trapped air out the puncture hole with a squeegee

Figure 2. Heating Film and Measuring the Temperature

CAUTION

3M™ Air Release Tool 391X has a sharp point which may cause personal injury.

2. After the film has been applied, apply heat to the graphic to reduce the internal stress in the vinyl film.
   a. Adjust the heat source so the film temperature reaches 176°F to 203°F (80°C to 95°C). Installers should measure the temperature of the film with an infrared thermometer as they heat the film. Hold the heat gun in the lead hand and the heat gun in the trailing hand to best measure the film's temperature. Have the infrared thermometer trail the heat gun slightly to ensure the temperature of the film is measured, rather than the temperature of the air.
   b. Move the heat source slowly across the stretched film surface.
   c. For the best performance, press stretched film with a 3M™ Roller S while the vinyl is still hot. This helps fully wet-out the adhesive onto the substrate and reduces the risk of lifting. See Figure 2.
3. Use firm, even, overlapping squeegee strokes to avoid missing any areas. This pressure is key to bonding the adhesive to the substrate. Missed areas leave wrinkles and bubbles in the applied film. These are areas where premature film failures may occur.
4. Carefully cut the film at all seams in vehicle body panels, being careful to avoid scratching the paint. Seams on vehicles flex as the vehicle moves. If it is not cut, film will pull away from the seams, resulting in premature failure.
5. Re-squeegee all edges and overlaps to ensure good adhesion before releasing the vehicle for use.

Post-Application Conditions

1. After applying the graphic, keep the vehicle temperature above 60°F (16°C) for at least 12 hours before exposing the vehicle to either a cold or wet climate. This strengthens the graphic's bond to the contoured areas.
2. Do NOT wash the vehicle for at least 72 hours after completing the graphic installation.
3. After 72 hours, the vehicle may be washed by hand or in a touchless automated car wash using normal vehicle washing solutions. Do NOT use high pressure sprays directed at the film edges, as this can cause edge lifting and damage the film.
4. Dry the film to prevent hard water stains.

Application to Recesses

2080 Stretching Capabilities

Table B. Application Methods

A	Follow Contour of the substrate - no heating
B	Heat stretch - minimum of 8 in. (20 cm) away from recess
C	Bridge the area, heat and stretch

Table C. Optional Graphic Protection

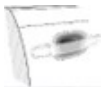
3M™ MCS™ Warranted Overlaminates for Use with 2080	3M™ Wrap Overlaminate Series 8900

If 3M™ Wrap Film 2080 is printed with or without graphic protection the wrap shop assumes all risk for testing, approving, suitability and warranty.

Follow preparation, application and post-heating techniques.

Film inlays and adhesion promoters are not required, but they can add an extra level of insurance against lifting and may be needed for very deep recesses.

Table D. Application Method Selection

Surface Description	Example	Application Method	Surface Description	Example	Application Method
Single Recess Channel		**B**	**Single Recess With Additional Adjacent**		**B**
Wide Corrugations (i.e. Van Roof)		**C**	**Combined Recesses (i.e. Front Wheel Well)**		**B**
Multi Dimensional Concave (i.e. Door Handle)		**C**	**Micro-V Channel**		Relief Cutting
Small V-Shape Channel		**A**	**License Plate Holder**		Relief Cutting
U-Shape Recess		**C**			

Adhesion Promoters

The usage of adhesion promoters within the recess area will increase the adhesion of the graphic. It is considered an extra level of insurance to avoid film lifting.

Repositionability and removability will be lost in areas where adhesion promoters are used.

3M offers two options to promote good adhesion to the vehicle body: 3M™ Tape Primer 94 and 3M™ Adhesion Promoter 111.

3M™ Tape Primer 94

If you choose to use 3M™ Tape Primer 94 or other adhesion promoters, apply it to:

- The deepest part of any channel
- Both sides of any silicone bead

Apply film within 5 minutes to 60 minutes after Primer 94 application.

1. Break the glass inside the Primer 94 ampules to activate.
2. Apply Primer 94 to the deepest part of the channel.

Figure 3. Application of 3M™ Primer 94

Application Method A

Use the "General Application Techniques" described above.

Application Method B

Figure 4. Single Recess Vehicle Surface

1. Position the film and apply it from the top and fix the edges of the contours.

Figure 5. Positioning and Tacking the Film to a Single Recess

2. In case of applying the graphic within the recess area, do not apply closer than 8 in. (20 cm) to the recess. To minimize the risk of lifting, it is essential, to have sufficient amount of material left.

3. Use firm, even application pressure. The use of 3M™ PA-1 Gold Squeegee with thin and soft sleeve (e.g. microfiber) is recommended. Wetting of sleeves with a mixture of 70% IPA and 30% water can help prevent scratches on film surface during application.

Figure 6. Aligning Contour Edges

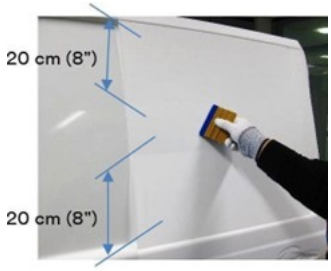


Figure 7. Do NOT squeegee the top or bottom 8 in. (20 cm) of the single recess.

4. Heat the film around the recess area with a professional heat-gun to the following temperature based on the base film (see Table A on page 4).
5. Applying heat to areas of film 8 in. (20 cm) beyond the recess area will reduce the tension of the film when being applied in the recess area.

Figure 8. Applying Heated Film to the Recess

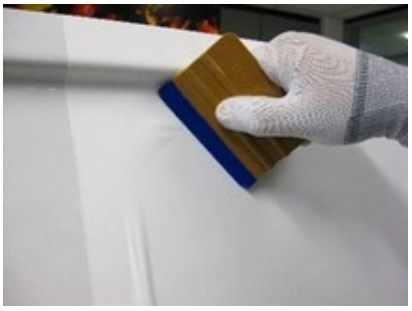


Figure 9. Squeegee the top and bottom 8 in. (20 cm) of film.

6. Apply the film into the recess either with a gloved finger or with the hand roller (3M™ Roller L or S).
7. After the film is completely applied into the recess, apply the film on the remaining area within the recess.
8. Due to the 3M™ Comply™ technology, trapped air can easily be removed without causing air bubbles.

Application Method C

When planning the film application in the recess area, make sure you leave a path for the air to escape.

1. Position the film panel onto the substrate and fix the film panel with magnets or masking tape on the top.
2. Roll the film panel up to the top. Remove the liner carefully from the film.
3. Start the application on the flat part of the substrate and bridge the film over the recess (deep channel).

Figure 10. Aligning and Attaching the Panel with Masking Tape

Figure 11. Roll the film up to the top.

Figure 12. Unrolling the Liner While Applying Film

NOTE

Films require high squeegee pressure to avoid air entrapment between film and substrate. Therefore the use of 3M™ PA-1 Gold Squeegee with thin and soft sleeve (e.g. microfiber) is recommended. Wetting of sleeves helps to avoid scratches on film surface during application.

4. Apply the film into the recess either with your thumb, your finger or with the hand roller (3M™ Roller L or S).
5. When applying manually, wear textile gloves to lower the friction between finger and film. Heat the film around the recess area with a professional heat-gun. See Table A on page 4.
6. Start film application in the recess in the deepest point first (1). Then continue at the opposite point of the recess (2). Last apply the film in the middle part of the recess (3).

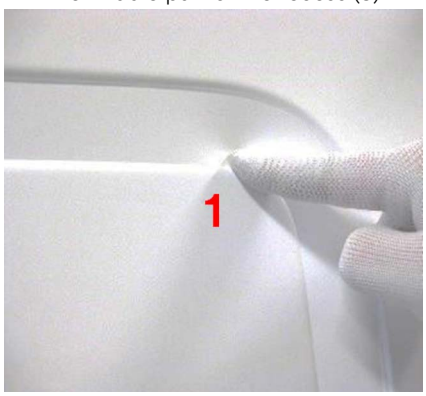


Figure 13. Apply the deepest first.

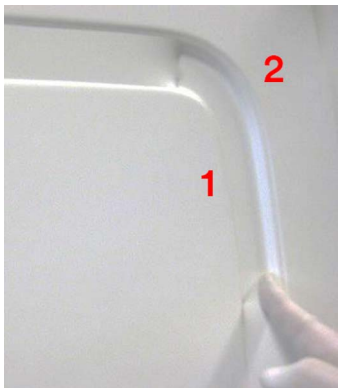


Figure 14. Apply the opposite side second.

Figure 15. Finally, apply the center of the recess.

Post-Heating of Film Applied to Single Recesses and U-Shape Recesses

For application on recesses, post-heating is required.

NOTE

All 3M™ Wrap Film 2080 gloss films have a clear protective film layer to prevent scratching. This protective film layer must be removed before post heating.

7. Reheat film in the recessed areas and deep channels with a heat gun. This can help detect overlooked air bubbles.
8. Puncture any remaining air bubbles with the air release tool.
9. Firmly push any trapped air out the puncture hole with a squeegee.
10. Heat the film to 176°F to 203°F (80°C to 95°C).
11. Immediately re-roll the film with the small hand-roller in all recessed areas and deep channels, using uniform continuous pressure. This softens the adhesive, closes remaining air channels, and helps provide good final adhesion.

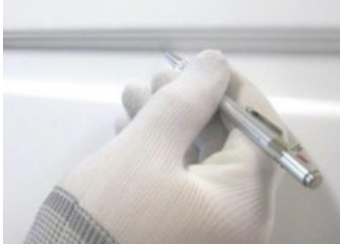


Figure 16. Puncturing Air Bubbles

Figure 17. Re-rolling Recessed Film

Finishing the Installation

1. Resqueegee the entire film surface.
2. Using light heat, warm the edges of the film and resqueegee all of them. This is a critical to prevent edge lifting.
3. Post heat any stretched areas of film between 176°F to 203°F (80°C to 95°C).
4. Keep the vehicle at an ambient temperature above 60°F (16°C) for at least 12 hours, before exposing it to either a cold or wet climate. This allows the film to build adhesive strength.
5. Do NOT wash the vehicle for at least 72 hours after completing the graphic installation.
6. After 72 hours, the vehicle may be washed by hand or in a touchless automated car wash using normal vehicle washing solutions. Do NOT use high pressure sprays directed at the film edges, as this can cause edge lifting and damage the film.
7. Dry the film to prevent hard water stains.

3M Related Literature

Read the most current 3M product and instruction bulletins before starting any job.

The information in 3M product and instruction bulletins is subject to change. Current bulletins are available at 3M.com/graphics. The techniques described in these bulletins are required when applying a 3M warranted film, but are also practical recommendations when using promotional materials for non-warranted installations. Additional bulletins may be needed as indicated in the 3M Related Literature sections of the product bulletins of all 3M components used.

- 3M Instruction Bulletin Application: General Installation Techniques
- 3M Instruction Bulletin Application: Substrate Selection and Preparation
- 3M Instruction Bulletin Application: 3M™ Knifeless™ Tape
- 3M Instruction Bulletin Maintenance
- 3M Instruction Bulletin Removal
- 3M Vehicle Prep for Success Guide
- 3M™ Wrap Film Series 2080 Product Bulletin
- FAQ 2080 Installation
- FAQ 2080 Maintenance

Health and Safety

Chemicals

When handling any chemical products, read the manufacturers' container labels and the Safety Data Sheets (SDS) for important health, safety, and environmental information.

Follow this link to obtain SDS sheets for 3M products.

Follow this link to obtain information about substances of very high concern (SVHC) for EU products.

Tools and Equipment Usage

When using any equipment, always follow the manufacturer's instructions for safe operation.

Air Quality Regulations

Country, state, or regional volatile organic compound (VOC) regulations may prohibit the use of certain chemicals with VOCs in graphic arts coatings and printing operations. Check with local environmental authorities to determine whether use of this product may be restricted or prohibited.

CAUTION

Ergonomics

Any activity performed for a long period of time in an awkward position or with a high amount of force is potentially a risk for causing musculoskeletal strain, pain or injury. When applying or removing graphics, follow these practices to improve comfort and avoid injury:

- Alternate your tasks during the application.
- Schedule regular breaks.
- Perform stretches or do exercises to improve circulation.
- Avoid awkward reaching.

Warranty Information

Technical Information

Technical information, guidance, and other statements provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license to any intellectual property rights is granted or implied with respect to this technical information.

Product Selection and Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment, reviewing all applicable regulations and standards, and reviewing the product label and use instructions. Failure to properly evaluate, select, and use a 3M product in accordance with instructions or to meet all applicable safety regulations may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer

Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Commercial Branding and Transportation
3M Center, Building 223-3N-30
St. Paul, MN 55144

1-800-328-3908
3M.com/Graphics

Revision A, December 2024 Please recycle.

3M Vehicle Color Change Pre-installation Inspection Record

NOTE

Complete both pages of this pre-installation inspection record before each new graphic installation and between subsequent graphic installations on the same vehicle. Use a separate record for each vehicle and installation.

Installer Requirements

1. Carefully and thoroughly examine each vehicle and record all potential problem areas prior to installing the graphics. 3M recommends washing the vehicle so that potential problem areas are easily seen.
2. Ensure the paint is sound so the graphics will adhere well to the paint. For the purpose of this inspection, “sound paint" is defined as paint that is free of defects (see the “Defects" bullet below).

   Circle all areas on the following diagram where your inspection shows the paint may be unsound, the graphic may adhere poorly, or graphic removal may damage the vehicle paint. This includes:

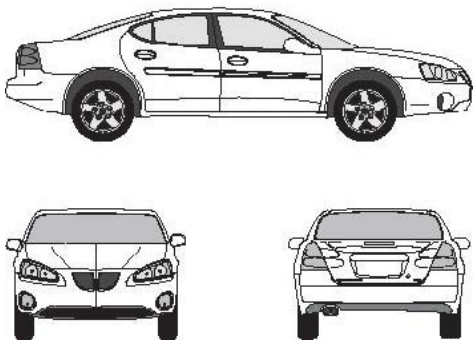
   - Defects: paint that is not well bonded over the entire application surface, including multiple layers of paint being well bonded to one another, loose paint, dents, surface damage, rough surface, fillers used for damage, rust, or blistered paint.
   - Areas where water can collect, which are more likely to rust, resulting in paint adhesion problems.

   NOTE

   Primer, which does not outgas, may be applied to bad paint spots on the vehicle to prepare it for film application. However, the use of primer on bad paint spots does not guarantee success or provide a warranty, must still be considered a problem area, and must be documented on the pre-installation inspection record.
3. Photograph all areas circled on the diagram as exhibiting unsound paint.
4. Explain proper graphic maintenance to the vehicle owner/operator. See 3M Instruction Bulletin Maintenance for details.
5. Complete the pre-installation inspection record.
6. Make and distribute copies to all signing parties.
7. Maintain a file with the signed form and photographs.

Warranty Claims and Exceptions

1. 3M recommends using the pre-installation inspection record on the next page to document any existing damage prior to starting the graphic installation.
2. 3M makes no warranty (expressed or implied) for paint or existing graphic damage occurring during the removal of a graphic or staining that may be visible after removing a graphic. See the 3M Graphics Warranties Bulletin for complete details.



Circle all areas where the paint may be unsound.

(Diagrams courtesy of Digital Auto Library, 1-888-843-1325 or www.digitalauto.on.ca)

3M Vehicle Color Change Pre-installation Inspection Record

COMPLETE THIS FORM, PROVIDE A COPY FOR EACH SIGNER

AND RETAIN WITH PHOTOGRAPHS IN CASE OF A CLAIM

Please print except in signature boxes.

Automobile Owner/Operator
Company Name
Contact Name
Street Address
City/State/Zip
Area Code/Phone Number

Graphics Printer
Company Name
Contact Name
Street Address
City/State/Zip
Area Code/Phone Number

Graphics Installer
Company Name
Contact Name
Street Address
City/State/Zip
Area Code/Phone Number

Automobile Information	
License Number	State
Automobile Year, Make, and Model	
VIN	
Automobile Owner/Operator	

Pre-Inspection: (see the previous page of this bulletin for inspection requirements)

❑ PASSED (DATE: _____ BY: _____)

❑ FAILED (Owner waives all product warranties if graphics are applied)

Photographs of Potential Problem Areas

❑ YES (DATE: _____ BY: _____)

❑ NO

Graphic Construction and Installation Information
Installation Date
Graphic Coverage ❑ Full ❑ Rear Only ❑ Trunk Only ❑ Driver Side Only ❑ Passenger Side Only
Substrate Cleaned and Prepared According to 3M Recommendations: ❑ YES (DATE: _____ BY: _____)
Film and Graphic Protection Used

Signatures of All Parties	
Installer	Date
Agency Representative	Date
Automobile Owner/Operator	Date