



Ghost Tint™ Installation Tool & Material Guide

Installing **Ghost Tint™ (switchable privacy film)** requires specific tools and sprays to ensure a clean, professional application. The list below covers all essential materials for both **self-adhesive** and **non-adhesive PDLC film installations**, including environment preparation and electrical safety.

Tools Required for Ghost Tint™ Installation

- **Professional Window Tint Installation Tool (Shark Card)**
A specialized squeegee tool for applying the film and removing air bubbles. Provided by Ghost Tint™ or in pro kits.
- **Rubber Roller**
Used to smooth the film and ensure adhesion, especially on larger glass panels.
- **Plastic Razor Blade (for glass cleaning only)**
Safely scrapes off debris, residue, and moisture without scratching the glass.
- **Titanium Trim Tool**
For precise trimming and tucking of film edges. Included in advanced kits.
- **Advanced Multi-Tool**
A versatile tool used for cutting or adjusting film. Part of most pro kits.
- **Strong Shears or Scissors (10" or larger)**
For trimming film to fit custom shapes or dimensions. Ensure clean, even cuts.
- **Non-Conductive Trim Kit**
Covers and protects bus bars and electrical connections. Prevents moisture contact and ensures safety.
- **Measuring Tape or Ruler**
For precise glass and film measurement. Leave a 1/8" (2–3 mm) tolerance around edges.
- **Microfiber or Nanofiber Cloth**
Lint-free cloth used to clean the glass and film surfaces. Prevents contamination during application.
- **Level or Straight Edge**
Ensures even alignment and straight installation.

- **Utility Knife (Optional)**
Used for fine trimming when shears are insufficient. Preferred for small corrections.
 - **Helper Tools / Assistants**
For large film installations, 2–3 people are recommended to handle film without creasing or damaging it.
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Sprays and Cleaning Solutions Required

- **Ghost Glass Spray**
Strengthens glass and fills micro pits or surface defects. Prepares surface for clean adhesion.
 - **Advanced Glass Cleaner**
High-grade cleaner to remove oils, dust, and grime from the glass.
 - **90–99% Isopropyl Alcohol**
Used for final cleaning and as a slip agent (for wet installs with self-adhesive film only). Helps remove debris from film liner.
 - **Water Mist (Optional)**
Sprayed into the air one hour prior to installation to reduce airborne dust. *Not sprayed on film or glass.*
 - **Advanced Window Film Installation Solution (Optional)**
Included in some kits for specific cleaning or wet installs. Not needed for standard dry installation.
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Additional Installation Materials (Not Tools or Sprays)

- **Ghost Tint™ Edge Sealant**
Acid-free, neutral-cure silicone sealant used to seal film edges. Available in clear, white, grey, black, or aluminum. Must be non-toxic and low-VOC.
- **Power Transformer / Control Unit**
Converts standard voltage (110–120V or 220–240V) to low voltage (24–65V AC).

- 100W transformer powers up to 120 sq ft of film.
 - **Clear 3M VHB Double-Sided Tape (For Non-Adhesive Film Only)**
Mechanically secures non-adhesive Ghost Tint™ to the glass perimeter.
 - **Wiring and Control Switches**
Low-voltage wiring and switches or Wi-Fi-enabled controllers to connect film to power.
All wiring must be non-conductive and protected.
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Important Installation Notes

Dry vs. Wet Installation

- **Self-Adhesive Film** is usually installed **dry** to avoid trapped moisture.
- **Wet Installation** (optional) may be used with 95–99% isopropyl alcohol as a slip agent.
- **Non-Adhesive Film** must be mechanically installed with **3M VHB tape** and always installed **dry**.
- **Do not use water or soap** for any slip or cleaning.

Clean Environment Required

- Install in a **dust-free area**.
- Use **water mist in the air** (not on surfaces) to reduce airborne particles.
- Ensure glass is fully clean using **isopropyl alcohol**, **Ghost Glass Spray**, or **Advanced Glass Cleaner**.

Handling Precautions

- Never **fold, crease, or kink** the film — this causes permanent damage.
- Only remove 6–8 inches of protective liner at a time during installation.
- Only fully remove liner after air is squeegeed out.

Electrical Safety

- **Bus bars and wiring must not touch metal** frames or conductive surfaces.
 - Use **non-conductive trim** to cover all electrical edges.
 - **Plug-and-play** systems are available from Ghost Tint™ for DIY installs, but a licensed **electrician** may be required.
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Where to Source Materials

♦ **Ghost Tint™ Professional Kits**

Includes:

- Shark Card
- Ghost Glass Spray
- Nanofiber cloth
- Titanium trim tool
- Advanced multi-tool

Contact Ghost Tint™ directly for professional kits and sample orders.

♦ **Hardware Stores (e.g., Home Depot, Lowe's)**

Purchase:

- Measuring tapes
- Shears
- Microfiber cloths
- Utility knives