Detailing Tech Session I am a husband, father to a 3 year old daughter, and step-father to a 16 and 12 year old sons. I classify myself as a professional hobbyiest. Meaning I do this for money, but I also have a day job working for a local construction company. I have always enjoyed having a well maintained car. Inside and out. • Enjoy taking cars paint to a better, shinier condition • A lot of the products mentioned in this presentation are the ones I use or am familiar with. Exterior

Etchings

- - When some element has sat and baked into the paint. The components have eaten into to the surface.
- Simplest Kinds

 - Bird Droppings
 Full of whatever the bird ate. Typically acidic.
 - Water Spots
- How to Remove
 - A Microfiber with detail spray. Lift off, not scrub.



- Define:
 - A beaded-up water drop with environmental elements that dry on paint.
- How to remove: Use a mineral remover or water spot remover.
 - Read instructions...as the product may not be used on all surfaces like windows.



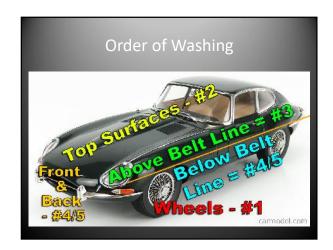
Basic Car Wash – Tools / Supplies

- Three Buckets (soap, rinse, wheel) with grit guards
- pH balanced car shampoo
- Quality wash mitt
- Drying aidWheel tools (brushes / fingers) and cleaners
- Leaf blower
- Drying towels



Used as a pre-wash step prior to mitt washing. Helps lift dirt off paint better than water alone Used as a semi-touchless wash Follow directions on individual soap products Comes in a pressure washer and garden hose attachments.

Car Washing — Do's • Make sure the paint is cool to the touch • Use a pH balanced car soap • Use enough soap to keep paint lubricated • Use a quality wash mitt • Stay above belt line then move to bottom and finally the back of the vehicle.



Car Washing – **Don'ts**



- Wash vehicle in direct sun or when paint is hot
 Use Dawn soap as a standard wash. It can / will remove natural oils within the paint. It also leaves behind residue.
- Use a sponge or bristle brush to wash paint
- Use too much pressure
- Letting soap dwell too long
- Take your car to an auto car wash.

Waterless Washes

- Does not mean water is not involved
 - Water is mixed with a wash solution, high in
 - The water hose or power washer is not used to rinse the vehicle.
- Great for washing in cold weather or foul weather conditions in a garage or carport.

Wheel Cleaning

Do's

- Use a dedicated cleaning solution for your type of wheel
 Wash wheels first before
- paint, keep your tools in your dedicated wheel bucket
- Wash/brush tires in with bristle brush while cleaning wheels.

- Use an acid wheel cleaner

 Can eat away clear coat /
 tinted wheel (like hyperchrome)

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Tire Shine

- Types:
 - Water based
 - Silicone/Solvent based
 - Sprays
- Best Application
 - Spray on and use applicator to spread ev
 - Wipe off with terry cloth or old microfiber to wipe even. Helps to minimize sling.
- Shines:
 - Glossy to satin
- Water based is great because you can dilute to the desired gloss you prefer.
 - Also minimizes "browning" of tires



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Paint Meter • Define: - Used to measure total paint depth to metal. • Use: - To check paint thickness before and during compound/polishing - To check if vehicle has been repainted/body work • Anything less than 4 mils of paint is danger zone for paint correction



Rotary / High-Speed Buffer

Benefits

- Quickly cuts heavy scratched or oxidized paint
- Use a variety of buffing

- Leaves behind holograms, trail marks, swirls
- Difficult to control
- Easy to burn paint

Forced Dual Action

Benefits

- Gear Driven: spins and has a fixed oscillation pattern
- This machine can be used for cutting, polishing, or wax application
- Does not stop on edges / contours
- Use a variety of buffing pads

- Does not stop on edges /
 contours
- Does not cut as fast a rotary



Dual Action

Benefits

- Safest for paint as it stops on edges / contours
- Comes in a variety of throws (MM)
- Free spinning. Counter weight creates the oscillation.
- This machine can be used for cutting, polishing, or wax
- Use a variety of buffing pads

Disadvantages

- Stops on edges / contoursDoes not cut as fast a rotary



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- Rupes iBrid Nano
 - Rotary, 3MM, 12 MM.

 - Used to polish tight areas bigger buffers will
- 3" Buffers
 - Used to buff smaller spots your 5" or 6" pads will not get to
- - Has a hand wand to reach spots like under door handles or around



Buffing Pads for Machines

- Often a Hook & Loop to a backing plate
- Types
 - Foam

 - Microfiber

Wet Sanding

- Purpose: the flatten paint, remove severe scratches, or to restore faded good paint.
 Comes in various degrees of

- Stay a finger away from edges / body lines
- Will require stages of compounding/polish to restore shine



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- Durability: short
 Days to few months
 Limited protection to environment
 Comes in both liquid and paste form
- Wipe on, let haze, and wipe off
- Can be hand or machine applied



Paint Sealant



- Can create a warm glow like wax. Often has a glassier look
- processes
- Can be hand or machine applied.

Coatings (Ceramic or Graphene)

- Creates a glass / high gloss look
- Durability: Long

 - conditions
- Products range from consumer application to certified professional application.



Coatings (Ceramic or Graphene)

Benefits

- Great protection to your paint short of wrapping your vehicle
- Creates a very reflective shine (individual style/opinion)
- Resists etching by bird droppings, water spots, and chemicals (sacrificial layer)
- Years of protection with proper maintenance

- Paint needs to be paint corrected before application
 A prep agent is used to remove polishing oils before application
 If coating is not 100% wiped off, it will haze and create a dull soot
- Still will etch, water spot, and scratch



Spray Waxes / Spray Sealants Spray Wax Used in-between detail session or after vehicle washes every so often Used to boost protection or longevity of base protection Spray Sealants Used as a stand along protection (3-6 months) Use as a topper on ceramics

To remove dust, finger prints, bird droppings, etc. Some can be used as a drying aid. Certain brands have properties of their paint protection products Griot's Ceramic Detailer Meguiars Bead Booster (water downed) Some can be used in direct sunlight, others not...read instructions.

Used after polish, but before a wax (wax only) Contains fillers to fill imperfections before wax Wears quickly and scratches reappear Not used with paint sealants or coatings









Bright Work Microfibers, Super-Fine 0000 Steel Wool, buffing wheels • Chrome: using light pressure Mothers Chrome Polish. - Dr. Beasleys Metal Coat Tops and Windows Convertible Top Cleaning Cleaning Products: - Cleaning Products: 303, Raggtopp, Griot's Convertible Top Cleaner, or various pH balanced RaggTopp, or Griot's Interior Cleaner • Protectents: interior/carpet cleaners. RaggTopp, Griot's Interior Detailer, 303 – Protectants: Raggtopp or Griot's Fabric

Protectant

The idea is to make water bead up and environmental elements sit on top of surface

Convertible Top Window Cleaning To clean: - Meguiar's PlastX - Water based compound/polish Purpose To remove yellowing, scratched from plastics Methods Hand: Small circles with a stiff applicator Machine: Use a small machine and apply to area inside, one direction for outside. So if there is streaking, you know One to move around window solution, one to Don't be afraid of using • Avoid ammonia window product. cleaners on aftermarket tinted windows **Related Topics**

California Duster Great way to scratch paint by moving dirt around Use a microfiber with detail spray. Use one quadrant per wipe Hose off vehicle with water or use a spray cannon for a semi-touchless wash.

Car Cover

This is strictly my opinion to why or why not

- - Great to use if your garage is used for things while car is parked inside
- Disadvantages
 - Can rub dirt around while removing / installing
 - Can trap forced debris
 - Can trap moisture

Wipe off car with a microfiber and some detail spray using once side per wipe or hose off with water.

Types of Microfiber Towels

- Various kinds of microfibers. Microfibers dedicated only for glass to microfibers for soft paint.
- Nothing wrong with Costco yellow microfiber towels
- Microfiber towels are rated in GSM (grams per meter).
- Don't think a higher GSM is always better.
- Don't use your wheel rags on paint.
 Color coating or dirty coding is a great way to separate
- - Wash in cold water and dry on tumble dry.

 - Onn't use powder soap...only use liquid soap
 They do make microfiber cleaner. They do work better than laundry soap alone.

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• Visit THE RAG COMPANY Have a huge selection for various purposes Interior Detailing Interior Detailing Do's Use an All Purpose Cleaner (AP) and attack your Use a dedicated interior cleaner for your surface interior. — If mixed wrong (ratio), it can stain or remove dye. • Use a brush or rag to agitate I use Griot's Interior Cleaner. It's pH balanced and safe on Leather, cloth, plastics, and vinyl. - It can reactivate when it gets However, it can be very useful to remove stubborn stains if necessary. • Use a surface specific protectant Classic ArmorAll

- - Wipe on whole interior, then wipe off
 - Use a spray leather conditioner on perforated seats. A gel/cream will get into the pores.
- - Use a Scotchguard or Griot's Fabric Protetant
- - You can use a leather conditioner if you want.

 I like to use Griot's Interior Detailer. This has UV inhibitors, nonglossy, and does not attract dust quickly.

- Purpose:
 - The attempt to restore oils and softness back into leather.
- Products:
 - Griot's Leather Rejuvenator
 - There are other products.
 This is the one I have used.
- Application:
 - Apply thick. You will see it absorb. Keep applying.



Interior Tools

- Shop Vac
- Extractor
- Air Compressor
- Steam Cleaner
- Microfibers Towels
- Drill Brush
- Brushes

Interior Tools Shop Vac • Used to suck up trash / debris • Can be used to suck up moisture left behind in cleaning chemicals • Used to suck up trash / debris of the suck up moisture left behind in cleaning chemicals





Engine, Chassis, & Suspension

- Purpose:
 - To clean, degrease, & protect plastics, chrome, aluminum.
- Cautions:
 - Electrical items and air intake system
- non-visible area.
 Example: Griot's Engine
 Cleaner
- It may take several applications, but safe is always better.
- Aluminum: Mothers Mag Cleaner

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