



Tools & Equipment List

This document exists as supplemental information to the General Motors CORE CRN Requirements. In many cases, this document will outline the general specifications required equipment will need to meet. In other instances, the only approved equipment has been indicated in the manufacturer and model columns. Please make sure you are referencing the most recent version of this information. GM maintains the right to add, delete or modify this list at any time. Participating network members are expected to comply with new requirements. The most recent version can be found at <https://www.genuinegmparts.com>

Category	Specification	Manufacturer	Model	Notes
Required Frame Aligning Equipment / Bench / Rack				
Frame Aligning Equipment / Bench / Rack	Capable of supporting 7000 lbs. 4 holding points minimum for rack system.			
Measuring System	3D electronic measuring system or fixture bench system, +/- 1 mm accuracy for x,y and z, with current software subscription			
Porta Power Set	4 ton required			
Pulling Equipment	Minimum two towers with 10-ton capability each			
Tram Tracking Gauge	Metric scale required			
Required Welding and MIG Brazing Equipment				
Aluminum MIG Welder	208V-240V Pulse Synergic MIG Welder, 200 Amp output capability			
Shielding Gases	Steel Welding - AR/CO2 80/20 % mix MIG Braze - Ar 100% Aluminum MIG - Ar 100%			
Designated equipment to perform test welds/destructive tests	Stand and tools for destructive testing of welds, Stationary vice / Vernier caliper, capable of vertical and overhead welding			
MIG Brazing Welder	208V-240V, 180 Amp output capability. May use required steel or aluminum welder with proof of separate and dedicated conductor/torch assembly, drive rolls, and gas for silicon-bronze MIG-brazing.			Wire: Er CuSi-a or CuSi-3 .08mm diameter recommended
MIG/MAG weld equipment	208V-240V, 180 Amp output capability			ER70S-4
Shunting Clamp				
Squeeze Type Resistance Spot Welding (STRSW) Equipment	See GM Dealer Equipment website for list of specific approved equipment			www.gmdesolutions.com
Expected Welding and MIG Brazing Equipment				
Auto-dim Welding Helmet	Minimum #11 shade with 3 sensors - one for each mig/mag welder			
Welding Blankets	Minimum 2 per MIG/MAG and stress welding machine			
Welding Respirator	Must meet NIOSH 42 cfr part 84			
Welding Spark Paper				
Required Mechanical Repair Equipment				
A/C recovery / recycle / charging station for R134a and R1234YF	Compliant with all current regulations			Or must have access to recovery/recycling service (sublet)
Expected Mechanical Repair Equipment - Unless work is sublet out				
A/C Electronic Leak Detector				Or must have access to an electronic a/c leak detector (sublet) - r134a and r1234yf capable
Coolant Pressure Tester				Manual or electronic test equipment
Engine Cart				Or must have access to a mobile powertrain dolly
Engine Hoist				Or must have access to an engine hoist (sublet/rental)
Tire Changer				Or must have access to a tire changer (sublet)
Wheel Alignment Measuring System				Or must have access to an alignment measuring system (sublet) - capable of 4 wheel alignment



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Wheel Alignment Rack				Ability to perform and verify four-wheel alignment either in-house or through a sublet provider
Wheel Balancer				Or must have access to a wheel balancer (sublet)

Required Collision Repair Equipment

Aluminum Dent Repair Station	Utilize a dent extraction system specifically designed for aluminum			
Aluminum Dust Collection	Dedicated aluminum dust wet mix, dry-pneumatic portable or centrally installed			
Aluminum Work Area (Dedicated)	Minimum: Curtain room 23' length x 12' width x 8' height			
Correct Application equipment for seam sealer/undercoating/corrosion resistance products	See product application guidelines			
Correct Application Equipment for 2-part Adhesives	See product application guidelines			
Glass Removal / Installation Tools and Equipment				Or have access to sublet service provider
Structural Blind Rivet gun	Electric or pneumatic; capable of pulling 1/4" structural rivets, with a minimum pulling force of 3822 lbf.			
Heat Monitoring System	Temperature crayons, stickers, or non-contact thermometer			

Expected Collision Repair Tools

Aluminum Repair Hand Tools	Dedicated, stored separately			
Cavity Wax Gun or Applicator	Aerosol is acceptable - 360 degree spray head with minimum 36" wand, aerosol is acceptable			
Decal Remover	Eraser wheel type			
Dent Puller / Stud Welder	Stud and/or washer capable			
Dry guide coat	Should have at least one in each department			
Heat gun	Temperature and fan control required			
Panel separator/ seam buster	Manual or pneumatic			
Spot Weld Drill / Cutters	6mm, 8mm and 10mm, capable of drilling UHSS			

Required General Repair Facility Equipment

Two Post Surface Lift	Minimum 7,000 lb capacity, two post lift			
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Expected General Repair Equipment

Access to GM OEM Repair Procedures	Technician access to OEM service information - complimentary service express subscription provided			
Air Compressor	High pressure, high volume, dry and oil free air			
Battery Charger	Charger/booster/ jumper with start and boost capability			
Battery Tester	Or must have access to a battery tester (sublet) - with load testing capability, this may only be sublet if scanning is also sublet to the same provide			
Bench mounted Vice				
Electric Extension Power Cord	Minimum 12 awg/ 20 amp with ground prong - should have at least one in each department			



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Floor Jack	Minimum 2 1/2 ton lifting capacity, adequate number, capable of lifting low clearance vehicles			
High-pressure Washer				
Jack Stands	Minimum 3 ton capacity (per pair)			
Torque Wrench	Capable of reading in newton meters and pound feet, accurate from 10nm to 272nm (7 lbft to 200 lbft) - annual calibration			
Vacuum Cleaner				
Wheel Dollies	Minimum 1500 lb. Capacity (each)			

Required Paint & Refinishing Equipment

Paint booth / Paint forced curing system	Meets the specifications of utilized GM approved refinish system			
Paint mil Spec Gauge	A paint gauge capable of accurately measuring paint film thickness on non-metal substrates which is nondestructive to the paint film.	Defelsko	200b1-e Positector	Or equivalent
Paint System	Utilize a GM approved refinishing system as outlined in GMW15406 globally approved refinish materials and provide proof of product training			

Expected Paint & Refinish Equipment

Compressor Air dryer				Refrigerant type, desiccant type or membrane type acceptable
Bumper stand				
Cart for masking paper				
Color formula data	Computerized, Capable of VOC tracking			
Dedicated mix room	Must have exhaust system compliant with local regulations - only required where also required by local code.			
Paint station with scales	As required by paint supplier, scale must be capable of interface with mix computer			
Painter suits and protective gear	As specified by refinish maker			
Polishing set	Adequate number of buffers/polishers - eclectic or pneumatic acceptable			
Spray gun (for base coat)	Capable of high transfer efficiency, must meet local regulations			
Spray gun (for clear coat)	Capable of high transfer efficiency, must meet local regulations			
Spray gun (for primer)	Capable of high transfer efficiency, must meet local regulations			
Spray gun washer	Enclosed system or pps style cups with written policy for manual gun cleaning			
Spray stand (fender / door)				
Spray stand (hood / trunk)				

Technician Tools

Expected Technician Tools

Air duster gun	Osha approved			
Body hammer assortment				
Chisels				
Clip remover				
Disk grinder				
Dolly assortment				
Dual action sander (random orbital sander)				
General hand tool set				
Hand drill (pneumatic or electric)				



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Hand saw (pneumatic or electric)				
Metric measuring tape (convex)	Metric scale required			
Pneumatic / electric impact gun				
Pneumatic / electric ratchet				
Punch tool set with centering punch				
Rubber hammer				
Spoon				
Storage for removed parts (cart, box)				
Vise grip set				

Personal Protection Equipment (PPE)

Expected Personal Protection Equipment

Dust masks	Dust/mist mask			
Eye and face protection	Safety goggles / Safety glasses / Face shield Glasses must meet ansi z87.1+.			
Hand protection/gloves	Abrasion resistant Chemical resistant Work gloves			
Hearing protection	Ear plugs / Ear muffs			
Paint suit	One-piece hooded			
Respirators	Fresh air supplied for painting Osha certified for all others			

Diagnostic Scan Tool

Not all scan tools read all DTC codes. Please refer to GM's Position Statement on scanning and tools GM supports. Use of any other tool other than the GM MDI-2 tool may not produce an accurate report.

Diagnostic Scan Tool that can capture diagnostic trouble codes (DTC)	Utilizing the Multiple Diagnostic Interface 2 (MDI-2)	General Motors	Global Diagnostic System 2 (GDS 2)	All repairs must include documentation of pre-scan and post-scan
Diagnostic Scan Tool that can capture diagnostic trouble codes (DTC)	With current license/subscription	Mitchell Diagnostics/Bosch	MD-200, MD-350	All repairs must include documentation of pre-scan and post-scan

As additional tools and equipment become required or other brands/models are approved this list will be updated and made available.