

Appendix A: Tool and
Equipment Specifications

Equipment	Specification	Sublet or Required*
Body & Frame		
Body & Frame Straightening Bench	8500 lb. lifting capacity, 4 holding points minimum. Capable of straightening the body to factory specifications.	Required
3D Measuring	A three-dimensional measuring system (Printable Pre /Post Measurements) or Dedicated Fixture Bench or Universal Fixture Bench	Required
Pulse Control MIG welder	200 amp, 220 V with pulse control, used with silicon bronze	Required
Welding wire YGW13	ER70S-6	Required
Welding Wire YGW16	ER70S-3	Required
Squeeze-Type Resistance Spot Welder	>8000 amp>459 kg (1011lbf) 450DaN clamp force (Inverter)	Required
Fire-Retardant Welding Blankets	Minimum of two per each GMA and STRSW machine/welder	Required
Belt Sander	20mm	Required
4- Ton Porta Power		Required
Tram Gauge		Required
Undercoat Gun		Required
Body Sealer Gun		Required
Anti-Corrosion Applicator	Must have an extended wand attachment	Required
Bumper Stand		Required
Panel Stand		Required
Hot Air Gun	1500w minimum	Required
Spot Drill / Cutter	500 Hv or more hardness (e.g., Cyuotokenzai: C-20VR)	Required
Mechanical		
Two-Post or Surface Lift	7,000lbs min. (surface lift must meet the lift weight capacity)	Required
R-134A A/C Recovery/Recycle/Charging Station SAE J2788	Meeting SAE J2788 standards. (Manual oil injection type only)	Required
R-134A/R12 A/C Leak Tester	Meeting SAE J1771 standards	Required
HFO-1234yf A/C Recovery/Recycle/Charging Station	Meeting SAE J2843 and J2927 standards. (Manual oil injection type only)	Can be sublet
HO-1234yf Leak Detector		Can be sublet
Cooling system Air Purging Device		Required
Cooling system Pressure Tester		Required
Floor Jack	Commercial grade minimum 2 ton capacity	Required
Engine Lifting Hoist	Commercial grade minimum 1,000 lbs. capacity	Required
Jack Stands	Commercial grade minimum 3 ton capacity	Required
Diagnostic Battery Charger	Subaru Midtronics GR8-1100 Battery Diagnostic Station (Subaru Retailers are required to have the Midtronics 1100 EST model for warrantable repairs)	Required
Digital Volt Ohm Meter (DVOM)		Required

Computerized 4-wheel Alignment System	Does the collision center have a computerized 4-wheel alignment system capable of reading camber, caster, and steering angle inclination (SAI); with settings in degrees and minutes; or, degrees and hundredths of a degree AND millimeters to the hundredths of a millimeter (or down to as low as hundredths of an inch)? (Camber, Caster, SAI; XX°xx' or YY.yy Toe: XX°xx' or YY.yy° or Z.zz mm or Z.zz ins)	Can be sublet
Diagnostic Wheel Balancer	Subaru branded or equivalent Hunter Road Force Elite and John Bean B2000P	Can be sublet
Tire Changer	Must support 18 inch beadless alloy wheels	Can be sublet
Hydraulic Press	20 ton minimum with a 7" minimum spread	Can be sublet
Bench Grinder		Required
Fuel Caddy		Required
Strut Compressor	Stand or wall mount type	Required
High-Pressure Washer		Required
Wheel Dollies (Quantity of 4)	1,500lbs min	Required
Glass Removal / Installation Set		Can be sublet
Torque Wrench		Required
Air Compressor	Adequate for collision center size	Required
Receiver Dryer Unit		Required
Refinish		
Paint Booth	Down draft heated that meets the drying requirements of the material being applied, and meets local/state/federal requirements	Required
Paint Preparation Station (or second booth)		Required
NIOSH/Fresh-Air Paint Mask System		Required
Paint Mixing Scale with Measuring Cup	As required by paint supplier	Required
Working Table with Spray Gun Stand		Required
Masking Paper Cart		Required
Selection of Spray Guns		Required
Tool Cart (for pneumatic polisher)		Required
Polishing Set		Required
Panel Stand (hood/trunk)		Required
Panel Stand (fender/door)		Required
Infrared Drying Lamps		Required
Digital Paint Thickness Gauge	Ferrous and Non-Ferrous Coatings	Required
Subaru Specific Tooling		To purchase Subaru Specific Tooling sold by Bosch visit: http://subaruretailersolutions.com/tools
61299CA000 DOOR REGULATOR HOLDER, ADJUSTER		Required
61299CA010 DOOR REGULATOR HOLDER, ADJUSTER		Required
87599VA000 ICHART		Can be sublet with calibration to an authorized Subaru retailer
87599YC001 ICHART - ADA CAMERA		Can be sublet with calibration to an authorized Subaru retailer
J-47673 WEIGHT TOOL,PASSENGER		Can be Sublet to an authorized Subaru retailer
J-50972 ADJUSTER,TORSION BAR		Required

J-51311 SUBARU HEV SAFETY KIT	Or equivalent as required by an OEM certified program	Required
J-51661 RADAR REFLECTOR		Can be Sublet with calibration to an authorized Subaru retailer
J-51662 STAND, RADAR REFLECTOR		Can be Sublet with calibration to an authorized Subaru retailer
SOA321105 BRZ WINDOW WRENCH		Required
VT36-0002 TOOL, TPMS ACTIVATION Or EQUIVALENT	Or equivalent	Required
OEM Scan Tool	Subaru Diagnostic System (SDS) using the Subaru Select Monitor 3 (SSM3) and Subaru Select Monitor 4 (SSM4) Purchase through Nuspire Networks 3155 Dallavo Court Commerce, MI 48390 Tel: (877) 782-740 Or The asTech™ scan tool may be used in place of the OEM scan tools listed. https://astech.com/get-an-astech promo code SubCertPilotJR15	May be sublet to an authorized Subaru retailer.
OEM Repair Procedure	STIS Subscription	Provided at no cost to a certified location after successfully passing the certification process.
Certified Technician Tools		
Flexible Magnetic Pick Up Tool		Required
Brush, Wire, Stainless Steel, 13 ¾"		Required
16' Measuring Tape		Required
Screwdriver Set		Required
Trim Removal Tool		Required
Torx Set (Metric)		Required
Center Punch		Required
Combination Wrench Set 10-19 MM		Required
½" Socket Set, Metric, Shallow, 6-Point to 21 MM		Required
¼" Socket Set, Metric, Shallow, 6-Point (15 Pieces)		Required
3/8" Socket Set, Metric, Shallow, 6-Point (12 Pieces)		Required
Torque Wrench (NM & FT-LB)		Required
Selection of Vice Grips and Clamps		Required
Snips, Left-Cut Aviation, 9 ½"		Required
Snips, Right-Cut Aviation, 9 ½"		Required
Saw, Air, Reciprocating		Required
Drill, Air, Reversible, 90° Angle, 3/8" Capacity (0-40 IN LB)		Required
Vario Drill - Pneumatic		Required
Drill Bit Set, Jobber Length, 29 Bits		Required
Selection of Hammers, Spoons, and Dollies		Required
Random Orbital Sander		Required
Dust Particle Mask		Required
Face Shield		Required
Ear Protectors		Required
Unlined Leather Work Gloves		Required
Kneading Table (for putty)		Required
Putty Spreader (rubber)		Required