

# Required Tools & Equipment for Honda & Acura Collision Repair Facilities

Updated 5/13/2019

Item	To Be Inspected by Verifacts	Required in Body Area	Required in Paint Area	Minimum Specification
<b><u>Collision Repair Tools &amp; Equipment</u></b>				
Frame aligning equipment / bench / rack	Yes	X		5500 lb lifting capacity, Minimum 4 holding points (Highly suggested that rack have ability for using fixture jig attachments)
Measuring system	Yes	X		3D Electronic measuring system or fixture bench system, +/- 1 mm accuracy for X,Y and Z, with current software subscription
Pulling equipment	Yes	X		Minimum two towers with 10 ton capability each
Vehicle lift capable of raising vehicle minimum of 60"	Yes	X		Minimum 7000lb capacity
Spot weld drill / cutter		X		6mm, 8mm and 10mm, capable of drilling UHSS
Panel separator/ seam buster		X		Manual or pneumatic
Dent puller / Stud welder		X		Stud and washer capable
High-pressure washer		X		
Wheel dollies		X		Minimum 1500 Lb. capacity (each)
Porta power set	Yes	X		4 ton
Tram tracking gauge	Yes	X		Metric scale required
Cavity wax gun or applicator	Yes	X		Aerosol is acceptable - 360 Degree spray head with minimum 36" wanc
Undercoat gun or applicator		X		Aerosol is acceptable
Dry guide coat		X	X	Should have at least one in each department
Decal remover		X		Eraser wheel type
Slide hammer		X		
Body seam sealer gun	Yes	X		
Heat gun	Yes	X		Temperature and fan control required
Non-contact heat monitoring system	Yes	X		Temperature crayons, stickers, or non-contact thermometer
Applicator gun for 3M two-part adhesive	Yes	X		Capable of dispensing 200mL or 450mL cartridges
Glass removal / installation set		X		Or have access to (sublet)
<b><u>Welding and Mig Brazing Equipment</u></b>				
Spot welding equipment	Yes	X		>9000 amp, Clamp Force >= 350 kg - kilograms (772lb - Pounds) (344 daN - Decanewtons) - Must be capable of manual settings
Spot attachment (wheel arch)	Yes	X		Clamp Force >= 350 kg (772lb.) (344 daN)
Spot attachment (long arm)	Yes	X		Clamp Force >= 350 kg (772lb.) (344 daN)
Shunt clamp	Yes	X		
Pulse controlled MIG weld equipment	Yes	X		180 amp, 220 V with pulse control
Silicon bronze wire	Yes	X		ER CuSi-A or CuSi-3 - 8mm diameter (.030")
Mag weld equipment	Yes	X		220, 180 Amp - Requirement MAY be met with pulse welder by changing wire and gas as needed
980 Mpa wire	Yes	X		Only approved wire is Bohler Union X96 - Check Body Repair News - Body repair manual welding & sectioning guideline revisions for updates
Correct shielding gases	Yes	X		80/20 Ar/Co2 Preferred, 75/25 Ar/Co2 Acceptable, 100% Argon for CuSi Mig Brazing
Welding blankets	Yes	X		Minimum 2 per mig/mag and STRSS welding machine
Welding spark paper	Yes	X		
Auto-dim welding helmet		X		Minimum #11 shade with 3 sensors - One for each Mig/Mag Welder
Welding respirator		X		Must meet NIOSH 42 CFR part 84
Stand and tools for destructive testing of Welds		X		Capable of verticle and overhead welding
<b><u>Mechanical Repair Equipment</u></b>				
Engine hoist		X		Or must have access to an engine hoist (Sublet/Rental)
Tire changer	Yes	X		Or must have access to a tire changer (sublet)
Wheel balancer	Yes	X		Or must have access to a wheel balancer (sublet)
Wheel alignment rack	Yes	X		Or must have access to an alignment rack (sublet) - Capable of 4 wheel thrust alignment
Wheel alignment measuring system	Yes	X		Or must have access to an alignment measuring system (sublet) - Capable of 4 wheel alignment
A/C recovery / recycle / charging station R134a	Yes	X		Or must have access to an A/C machine (sublet) R134a must meet SAE J2788-2010 - Plus trained/certified technician
A/C recovery / recycle / charging station R1234YF	Yes	X		Or must have access to an A/C machine (sublet) R1234YF must meet SAE J 2843:2013 - Plus trained/certified technician
Battery Tester	Yes	X		Or must have access to a Smart Battery Tester (Sublet) - This may ONLY be sublet IF scanning is also sublet to the same provider
A/C electronic leak detector	Yes	X		Or must have access to an electronic A/C leak detector (sublet) - R134a and R1234YF capable (May be two devices)
HDS/i-HDS Software for Vehicle Scanning	Yes	X		Or must have access to (sublet) - Only devices running HDS/i-HDS software qualify for the requirement (HDS is Honda Diagnostic System Software)
Insulated linemans gloves	Yes	X		Class "0" (black gloves)
Coolant pressure tester	Yes	X		Manual or electronic test equipment
Engine cart		X		Mobile powertrain dolly
<b><u>General Shop Equipment</u></b>				
Floor jack	Yes	X		Minimum 2 1/2 ton lifting capacity, adequate number, capable of lifting low clearance vehicles
Access to OEM repair procedures		X	X	Technician access to OEM service Information (Service Express or Service Information Systems) - Compimentary Service Information Systems subscription provided
Air compressor	Yes	X	X	High pressure, high volume, dry and oil free air
Bench grinder		X		
Battery charger	Yes	X		Charger/booster/ jumper with start and boost capability
Headlight aiming device		X		A reliable means of aiming headlights
Bench mounted vice		X		
Vacuum cleaner		X		
Jack stands	Yes	X		Minimum 3 ton capacity (per pair)
Belt file sander		X		1/2" wide belt
Trunk lid spring tools		X		Four Honda tools required, Part numbers: 07AAF-SNAA100, 07AAF-T2AA200, 07AAZ-SOKA100, 07AAF-SDAA10C

Hand rivet gun		X		Capable of up to 1/4" rivets - Pneumatic or electric also acceptable
Torque wrench(es)	Yes	X		Capable of reading in newton meters and pound feet, accurate from 10Nm to 340Nm (7Lbft to 250 Lbft) - May require multiple wrenches to meet range requirement
Electric extension power cord		X	X	Minimum 12 AWG/ 20 amp with ground prong - Should have at least one in each departmen!
Air tank		X		
Eye wash Stations	Yes	X	X	Must have accessible eye wash stations in each building where repairs are conducted
Fire Extinguishers	Yes	X	X	Must have adequate number of fire extinguishers and maintenance contract with service company
Hazardouse Material Storage Containers	Yes	X	X	Must have appropriate storage labeled for liquid and dry hazardous waste material

<b>Paint &amp; Refinishing Equipment</b>				
Paint booth	Yes		X	Capable of low bake, Must have exhaust system and be compliant with NFPA 33 and OSHA 29.1910.107 - 98% Efficient exhaust filters
Dedicated Mix Room	Yes		X	Must have exhaust system and be compliant with OSHA 1910.107 and NFPA 33-2016
Compressed Air dryer	Yes		X	Refrigerant type, dessicant type or membrane type acceptable
Paint station with scales	Yes		X	As required by paint supplier, scale must be capable of interface with mix computer
Color formula data	Yes		X	Computerized capable of VOC tracking
Cart for masking paper			X	
Spray gun (for primer)	Yes		X	Capable of high transfer efficiency, Must meet local regulations
Spray gun (for base coat)	Yes		X	Capable of high transfer efficiency, Must meet local regulations
Spray gun (for clear coat)	Yes		X	Capable of high transfer efficiency, Must meet local regulations
Spray gun washer	Yes		X	Enclosed system or PPS style cups with written policy for manual gun cleaning
Bumper stand			X	
Polishing set	Yes		X	Adequate number of buffers/polishers - electric or pneumatic acceptable (at least one per detailer)
Spray stand (hood / trunk)			X	
Spray stand (fender / door)			X	
Digital paint thickness gauge	Yes		X	Digital capable of ferrous and non-ferrous measurements
Painter suits and protective gear			X	As specified by refinish maker

<b>Technician Tools</b>				
General hand tool set		X		
Body hammer assortment		X		
Dolly assortment		X		
Chisels		X		
Spoon		X		
Hand saw (Pneumatic or Electric)		X		
Disk grinder		X		
Vise grip set		X		
Hand drill (Pneumatic or Electric)		X		
Metric measuring tape (convex)	Yes	X		Metric scale required
Clip remover		X		
Storage for removed parts (cart, box)		X	X	
Double action sander (random orbital sander)		X	X	
Air duster gun		X	X	OSHA approved
Soft Faced hammer		X		Rubber, platic, leather
Pneumatic or electric ratchet		X		
Pneumatic or electric impact gun		X		
Punch tool set with centering punch		X		
Work gloves		X		
Safety Glasses		X	X	Must meet ANSI Z87.1+.

<b>Office Equipment</b>				
Digital Camera	Yes			Must have digital photography ability
Electronic Estimating System	Yes			Must have current subscription to an electronic estimating system
Printer, Copier and Fax or Scanning device	Yes			Must have ability to copy, print and scan or fax documents