

## **Collision Repair Technology**

### **Required Tool List**

Tools can be purchased by semester or as a complete package.

#### **Tools Required for FALL Semester**

**Students must have tools no later than October 1st**

#### **SAFETY**

Safety glasses (OSHA approved)

Ear protectors (Ear muff type)

**\*\*Charcoal Filter Respirator with organic vapor cartridges – for automotive refinishing (3M 7178, 7179 or equivalent) (sizes range from small to large; be sure to order correct size)**

**\*\*3M (07003, 07002, or 07001) Half Facepiece Reusable Respirator with P100 Particulate Filter (pink filters) or equivalent (sizes range from small to large; be sure to order correct size)**

Mechanics gloves

Safety Shoes – Leather uppers/rubber soles (steel or composite toe recommended)

#### **Pliers/Clamping Tools**

Locking pliers set to include needle nose type (IRWIN IRHT82591 or equivalent)

Body panel clamp assortment – Vise Grip 9R, 6R, 11R, 18R or equivalent

6" needle nose pliers

7" diagonal cutters

7" combination/slip joint pliers

9" arc/adjustable joint pliers

16" arc/adjustable joint pliers

Aviation metal snips – left, right and straight

#### **Hammers, Dollies and Spoons**

16oz ball peen hammer

**\*\*Short blunt picking hammer**

**\*\*Long picking hammer**

**\*\*General purpose dolly – must be solid**

**\*\*Heel dolly – must be solid**

**\*\*Low crown (light dinging) spoon**

#### **Files and Sanding Tools**

Bastard file set to include 3/8" round, 8" flat mill, and 8" half round

**\*\*14" rough (8 teeth per inch) curved tooth body file for filing body panels (Keysco #77347)**

**\*\*Handle for above file with screws – wood or adjustable aluminum handle**

**\*\*Surform file (half round) – cheese grater**

**\*\*Soft sanding block – foam pad (Motor Guard SB-1 or equivalent)**

**\*\*Dura Block 7pc. Kit AF44L or equivalent**

**\*\*2 3/4"x5" rubber sanding block (3M preferred)**

**\*\*2 3/4" x 8" rubber sanding block (3M preferred)**

#### **Screwdrivers**

Screwdriver set to include but not limited to: Flat blade, stubby, 6", 9", 12", offset

Screwdriver set to include but not limited to: Phillips, stubby #1 & #2; 6" #1 & #2; 12" #3; offset #2

#### **Misc Tools**

Blow gun, non-restricted with 1/4" Lincoln style air fitting (Milton 791/792)

Rechargeable LED Shop/Utility Light (No longer than 24")

Wire brush (Shoe horn type)

Scraper/putty knife 1" – Steel Blade

Adjustable wrench 6"

Utility Knife

#### **Tool Storage**

Rollaway tool cabinet **not to exceed 36" in width (NO EXCEPTIONS) (Must be able to secure all tools required for program. Carts with too few drawers are not recommended.)**

## Tools Required for SPRING Semester

### Students must have tools for 1<sup>st</sup> day of Spring Classes

#### Punches/Chisels

Pry bar set (Lady Foot/line up bar type)

Punch/chisel set to include but not limited to: center, pin, starter, flat chisel

#### Tire Service Tools

Tire air inflation chuck with ¼" Lincoln style air fitting (Milton 791/792)

Tire air pressure gauge

Tire valve core remover

½" drive impact wrench with Lincoln style air fitting (Milton 791/792)

½" drive impact non-marring wheel lug nut sockets and short impact extension (19mm&21mm)

#### Electrical Tools

12 volt test light

Digital Multi-meter (volt-ohms-amps) Fluke DM115 or equivalent

7" electrical crimp/wire stripping/cutting pliers

#### Wrenches

Allen wrench set (SAE)

Allen wrench set (metric)

Combination wrench set (metric 8mm-19mm)

#### Ratchets/Sockets

½" drive socket set to include the following:

Ratchet

Extensions – 5" & 10" long

Universal joint

Breaker bar – 18"

Shallow metric sockets 10mm – 25mm

3/8" drive socket set to include the following:

Ratchet

Extensions – 3", 6", 12" and 18" long

Universal joint

Shallow metric sockets 8mm – 19mm

1/4" drive socket set to include the following:

Ratchet

Extensions – 3" & 6" long

Universal joint

Shallow metric sockets 6mm – 12mm

1/2" drive click type torque wrench (50-250 ft. lbs.)

Torx socket set for 1/4" and 3/8" drive (T8-T55)

#### **Misc Tools**

25 foot tape measure (**standard & metric**)

Fender cover

Telescoping inspection mirror

Hack saw handle with blades

Hood prop rod

High speed drill bit set (1/16" - 1/2"; Cobalt or Titanium 135 degree split point)

Magnetic pick-up tool

Door trim removal tool kit (to include u and v-notch tools)

Welding gloves (gauntlet style)

Gas welding goggles (#5 shade)

#### **Optional Tools (Not Required)**

1/2" drive impact socket set (deep and shallow, SAE and metric)

Combination wrench set (SAE 5/16" - 1")

1/2" drive shallow SAE sockets 3/8" – 1 1/8"

3/8" drive shallow SAE sockets 1/4" – 7/8"

¼" drive shallow SAE sockets

**The college cannot accept deliveries of any tools or tool boxes. It is the student's responsibility to plan for transportation of tools to the college.**

**While the college does not endorse or recommend any one manufacturer, we do not recommend the use of box store tools.**

**\*\*Note: If these items cannot be supplied as part of the manufacturer's tool package, they can be purchased separately through one of the local auto parts store at a discount. Contact Collision Repair Program Coordinator for details.**