I. PURPOSE

The purpose of this Recommended Practice (RP) is to suggest the proper tools that may be used for the repair of passenger, truck, farm, and off-the-road tires.

II. DISCUSSION

Tire repair is an essential part of the tire retreading and repairing industry. To be safe and effective, tire repair technicians must be properly educated on repairing. It is important to use tool sizes appropriate to the injury size to prevent enlarging the injury.

WARNING

Serious bodily injury may result from not wearing adequate personal protective equipment (PPE), including eye protection (i.e., goggles or face shields), ear protection, respiratory protection, and gloves, while repairing tires. Always wear appropriate PPE for your safety.

WARNING

READ OPERATING AND SAFETY INSTRUCTIONS BEFORE USING TOOLS

Use only stones, brushes, and other accessories with an RPM rating at or above the RPM rating of the driving tool.

Failure to follow safety instructions and warnings regarding use of the tool and accessories can result in serious injury.
TOOLS RECOMMENDED FOR TIRE REPAIRS

TOOLS FOR ALL TIRE REPAIRS

1. Face Shield
2. Goggles
3. Duck Bill Awl
4. Vulcanizer’s Awl - rounded tip
5. Hand Reamer - stickleback
6. Slip-Joint Pliers
7. Needle Nose Pliers
8. Diagonal Cutters
9. Shears
10. Tape Measure
11. Carbide Cutters
12. Tire Crayon
13. Cement Stipple Brush
14. Stitchers - available in various sizes
15. Hand Light - portable for close inspection
16. Wet/Dry Vacuum Cleaner
17. Hand Vacuum Cleaner
18. Power Operated Drill - 1200 rpm max; reversible
19. Spotting Equipment
20. Spreader with Proper Lighting - 300 footcandles / 3229 lux (not shown)

Note: Follow manufacturer’s recommendations for maximum rpm for all tools.
1. Powered Buffing/Skiving Tool with quick change chuck - air with rear exhaust - 5000 rpm max.
2. Plastic Encapsulated Brush
3. Wire Brush - e.g., a soft wire brush with washers
4. Radiused Cup Rasp
5. Pencil, Cone and Ball Rasps
6. Buzzout Buffing Wheels
7. Radiused or Flat 2” Rasps
8. Cone Rasp
9. Squiggly Rasp
10. Skiving Knives - taper point, curved skiving, flexible blade
11. Hand Reamer-stickleback
12. Rotary Gougers

Note: Follow manufacturer’s recommendations for maximum rpm for all tools.
TOOLS RECOMMENDED FOR TIRE REPAIRS

TOOLS FOR STEEL PREPARATION

1-A. High Speed Buffer fitted with Jacobs Chuck - air with rear exhaust - 20,000 rpm max.

1-B. High Speed Buffer fitted with 1/4” collet - air with rear exhaust - 20,000 rpm max.

2. High Speed Carbide Burrs - assortment

3. High Speed Grinding Stones - assortment

Note: Follow manufacturer’s recommendations for maximum rpm for all tools.

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