



TOOLS RECOMMENDED FOR TIRE REPAIRS

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

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.



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.

TOOLS RECOMMENDED FOR TIRE REPAIRS

TOOLS FOR ALL TIRE REPAIRS



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

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

TOOLS RECOMMENDED FOR TIRE REPAIRS

TOOLS FOR RUBBER AND FABRIC CORD PREPARATION



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 Rasps

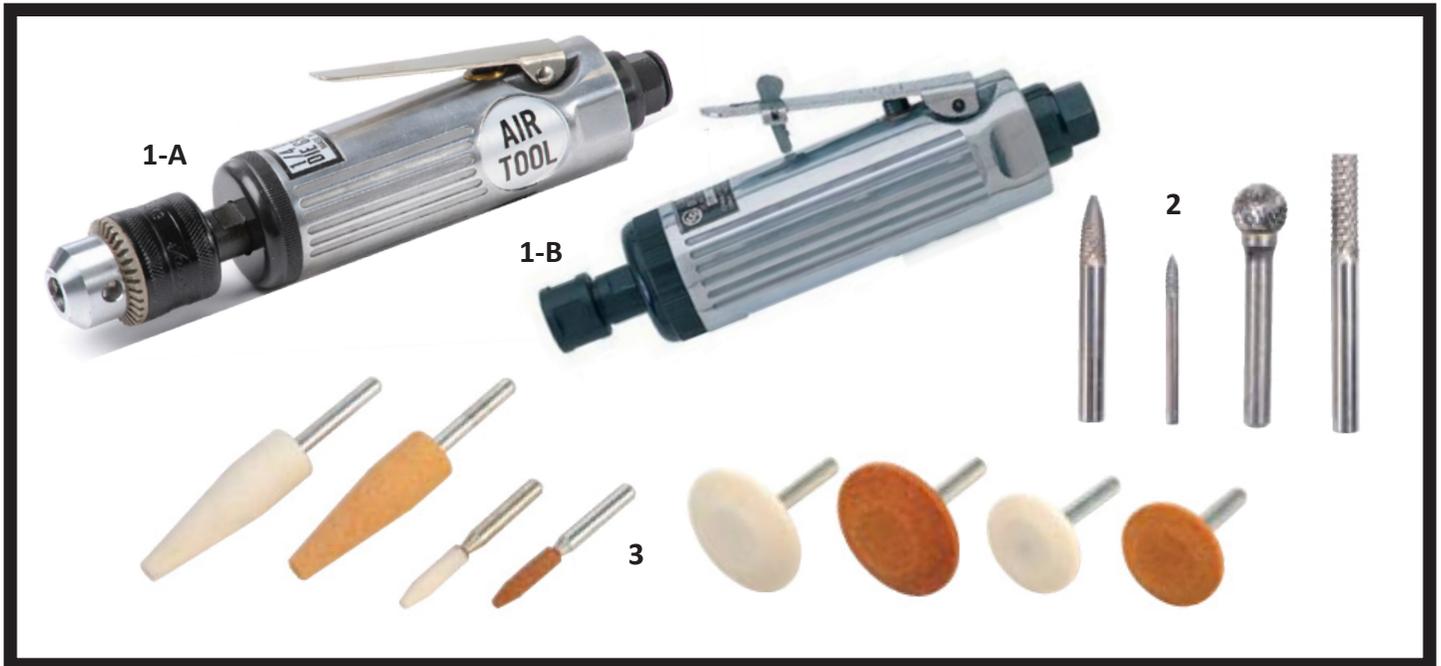
5. Pencil, Cone and Ball Rasps
6. Buzzout Buffing Wheels
7. Radiused or Flat 2" Rasps
8. Cone Rasp
9. Squiggly Rasp
10. Skiving Knives - taper point, curved skiving, flexible blade

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.

2. High Speed Carbide Burrs - assortment

3. High Speed Grinding Stones - assortment

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

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

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