



## Complete Line of Tire Repair Materials

North American Quality | Everyday Value | Unmatched Service



**Ask us about KEX products and technician training**



**KEX Tire Repair**  
300 Tice Boulevard, Suite 250  
Woodcliff Lake, NJ 07677



**(888) 395-1KEX (1539)**



**QUALITY, VALUE, SERVICE**  
***Backed by REMA TIP TOP***



## ***WHY BUY FROM KEX?***

- ✓ Competitively priced products with dependable performance
- ✓ Backed by REMA TIP TOP product and technical expertise
- ✓ Trusted KEX performance with refreshed, modern branding
- ✓ Flexible product and packaging options for a wide range of customers
- ✓ Supported by experienced REMA TIP TOP sales, field, and technical teams



## ***TRAINING & SUPPORT***

- ✓ Certified training programs from REMA TIP TOP
- ✓ Advanced technical training from REMA TIP TOP experts
- ✓ KEX tire repair wall charts and supporting training materials
- ✓ Tire repair guides with quiz-based learning
- ✓ Sales and field support from REMA TIP TOP
- ✓ Products supported by in-house testing and technical resources
- ✓ Territory manager support for key customer and distributor needs

# **KEX Tire Repair**

*For the Everyday Technician*



## **KEY FEATURES**

- ✓ Condensed product line for simpler inventory management
- ✓ Soft cushion gum construction for improved flexibility and application
- ✓ Designed for practical, everyday use by new and experienced technicians
- ✓ Private-label packaging available
- ✓ Made in North America for dependable quality and lasting durability
- ✓ KEX Combi Units suitable for repair angles of up to 25°
- ✓ Two-year shelf life



## **BENEFITS**

- ✓ Dependable repair performance at a competitive price
- ✓ Straightforward application supports faster technician adoption
- ✓ Simplified product selection, stocking, and inventory control
- ✓ Helps technicians complete routine tire repairs efficiently and consistently
- ✓ Strong value for shops, fleets, distributors, and service organizations of all sizes



kextirerepair.com



KEX Tire Repair  
Wall Chart



KEX Tire Repair  
Tutorial Videos

## Combi-Units with Pilot Wire

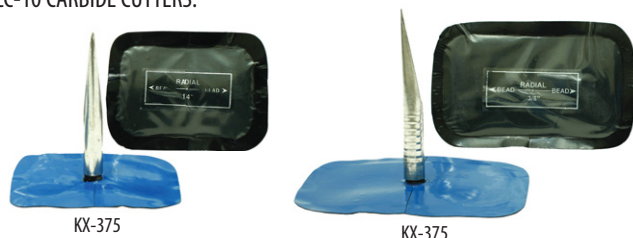
A small diameter steel pilot wire is molded into the plugs on these Combi-Units. When the wire and stem are inserted through the injury, the plug fills the injury and the patch seals the innerliner. Install with KX-511F flammable chemical cement. USE IN CONJUNCTION WITH CC-6, CC-10 CARBIDE CUTTERS.



| Part #        | Description                                              | Stem Size in. (mm) | Carbide Cutter | Box/Qty |
|---------------|----------------------------------------------------------|--------------------|----------------|---------|
| KX-386        | KX-386                                                   | 1/8 (3)            | CC-3           | 24      |
| KX-386 Deluxe | KX-386 Deluxe (CC-3 Carbide Cutter 1/8" included, 1/box) | 1/8 (3)            | CC-3           | 24      |
| KX-387        | Small Round                                              | 1/4 (6)            | CC-6           | 25      |
| KX-388        | Medium Round                                             | 3/8 (10)           | CC-10          | 25      |

## Patch-N-Plugs Reinforced - for Radial Tires

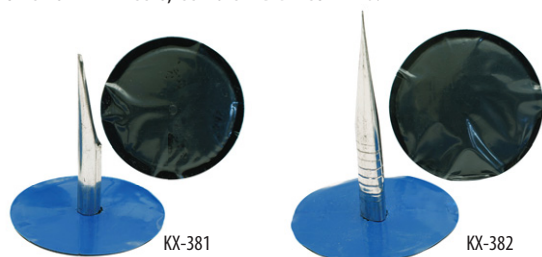
The Radial Patch-N-Plug vulcanizes to the innerliner and fills the injury. Install with KX-511F flammable chemical cement. USE IN CONJUNCTION WITH CC-6, CC-10 CARBIDE CUTTERS.



| Part # | Description       | Stem Size in. (mm) | Carbide Cutter | Box/Qty |
|--------|-------------------|--------------------|----------------|---------|
| KX-375 | Small Reinforced  | 1/4 (6)            | CC-6           | 25      |
| KX-376 | Medium Reinforced | 3/8 (10)           | CC-10          | 25      |

## Patch-N-Plugs Non-Reinforced

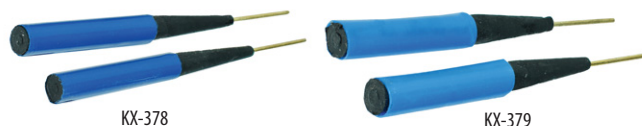
Rubber Patch-N-Plugs are recommended for the repair of radial and bias ply passenger tires. The all-rubber construction provides maximum flexibility and easy installation. Install with KX-511F flammable chemical cement. USE IN CONJUNCTION WITH CC-6, CC-10 CARBIDE CUTTERS.



| Part # | Description  | Stem Size in. (mm) | Carbide Cutter | Box/Qty |
|--------|--------------|--------------------|----------------|---------|
| KX-381 | Small Round  | 1/4 (6)            | CC-6           | 25      |
| KX-382 | Medium Round | 3/8 (10)           | CC-10          | 25      |

## Stem Units with Pilot Wire

A small diameter pilot wire is molded into the stem unit for easy insertion into the tire. After insertion, the properly selected patch is installed over the stem creating a permanent repair. Install with Part No. 511F flammable chemical cement. USE IN CONJUNCTION WITH CC-6, CC-10 CARBIDE CUTTERS, and KX-5102, KX-5103 FABRIC REINFORCED UNIVERSAL PATCHES.



| Part # | Description               | Stem Size in. (mm) | Carbide Cutter | Box/Qty |
|--------|---------------------------|--------------------|----------------|---------|
| KX-378 | 1/4" Stem with Pilot Wire | 1/4 (6)            | CC-6           | 20      |
| KX-379 | 3/8" Stem with Pilot Wire | 3/8 (10)           | CC-10          | 20      |

## MX Radial Patches

MX center over the injury radial repair units are designed for use in crown, shoulder (passenger & truck tire), or sidewall (truck tire) repairs. Install with KX-511F flammable chemical cement.



| Part No | Description   | Patch Size Inch | mm        | Box/Qty |
|---------|---------------|-----------------|-----------|---------|
| KX-MX10 | COI MX Radial | 1 7/8 x 2 7/8   | 48 x 73   | 20      |
| KX-MX12 | COI MX Radial | 2 1/4 x 4 1/4   | 57 x 108  | 10      |
| KX-MX14 | COI MX Radial | 3 x 5           | 75 x 125  | 10      |
| KX-MX20 | COI MX Radial | 3 x 5           | 75 x 125  | 10      |
| KX-MX22 | COI MX Radial | 3 x 5 7/8       | 75 x 150  | 10      |
| KX-MX24 | COI MX Radial | 3 3/8 x 8       | 85 x 200  | 10      |
| KX-MX40 | COI MX Radial | 4 1/4 x 7 3/4   | 100 x 200 | 10      |
| KX-MX42 | COI MX Radial | 5 1/8 x 10 1/8  | 130 x 257 | 10      |
| KX-MX44 | COI MX Radial | 5 1/8 x 13      | 130 x 330 | 10      |

## Bias Ply Patches

Tire cord reinforced Bias Ply patches for repair in passenger, truck and agricultural Bias Ply tires. Install with KX-511F flammable chemical cement.



| Part No | Description     | Patch Size Inch                           | Patch Size mm | Box/Qty |
|---------|-----------------|-------------------------------------------|---------------|---------|
| KX-470  | Bias Ply Repair | 3 $\frac{3}{4}$ x 3 $\frac{3}{4}$ (2 Ply) | 95 x 95       | 20      |
| KX-471  | Bias Ply Repair | 4 $\frac{1}{8}$ x 4 $\frac{1}{8}$ (2 Ply) | 105 x 105     | 10      |
| KX-472  | Bias Ply Repair | 5 $\frac{1}{2}$ x 5 $\frac{1}{2}$ (3 Ply) | 140 x 140     | 10      |
| KX-473  | Bias Ply Repair | 8 $\frac{1}{4}$ x 8 $\frac{1}{4}$ (4 Ply) | 210 x 210     | 10      |
| KX-474  | Bias Ply Repair | 9 $\frac{3}{4}$ x 9 $\frac{3}{4}$ (6 Ply) | 248 x 248     | 10      |

## Rubber Reinforced Universal Patches

Universal patches are reinforced with rubber for added strength. Recommended for puncture repairs in the tread area of radial or bias tires. Install with Part No. 511F flammable chemical cement.



| Part #   | Description            | Patch Size Inch | Patch Size mm | Box/Qty     |
|----------|------------------------|-----------------|---------------|-------------|
| KX-4101  | Small Round            | 1 $\frac{1}{8}$ | 42            | 1000        |
| KX-4102  | Medium Round           | 2 $\frac{1}{4}$ | 57            | 1000        |
| KX-4103  | Large Round            | 3 $\frac{1}{4}$ | 82            | 1000        |
| KX-UP45  | Square Universal Patch | 1 $\frac{3}{4}$ | 44            | 30          |
| KX-UP45P | Square Universal Patch | 1 $\frac{3}{4}$ | 44            | Pail of 300 |
| KX-UP55  | Square Universal Patch | 2 $\frac{1}{8}$ | 54            | 30          |
| KX-UP55P | Square Universal Patch | 2 $\frac{1}{8}$ | 54            | Pail of 200 |

## Fabric Reinforced Universal Patches

These Universal Tire Repair patches are reinforced with tire cord for added strength. For non-directional installation. Recommended for puncture repairs in the tread area of the tires. Use on both bias & radial tires. Install with KX-511F flammable chemical cement.



| Part #  | Description  | Patch Size Inch | Patch Size mm | Box/Qty |
|---------|--------------|-----------------|---------------|---------|
| KX-5101 | Small Round  | 1 $\frac{1}{8}$ | 40            | 120     |
| KX-5102 | Medium Round | 2 $\frac{1}{4}$ | 57            | 100     |
| KX-5103 | Large Round  | 3 $\frac{1}{8}$ | 80            | 50      |

## Jiffy Patches

Rubber patches for repairing injuries to tubes and rubber products. Install with KX-511F flammable chemical cement.

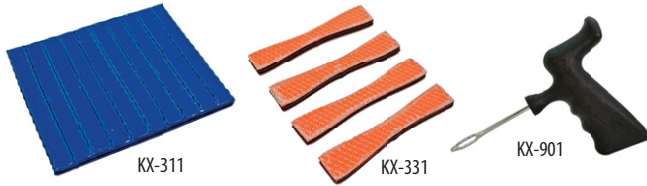


| Part # | Description  | Patch Size Inch | Patch Size mm | Box/Qty |
|--------|--------------|-----------------|---------------|---------|
| KX-001 | Small Round  | 1 $\frac{1}{8}$ | 42            | 40      |
| KX-002 | Medium Round | 2 $\frac{1}{4}$ | 57            | 40      |
| KX-003 | Large Round  | 3 $\frac{1}{8}$ | 80            | 25      |

Inserts, Rubber Plugs & Brown Strings are recommended for temporary tire repair of non-highway service tires only.

## Magicure Pli-Seal / Temporary Repairs

Designed for Nail Hole Injuries in all tubeless tires. Install with KX-917 inserting tool. Install with KX-511F flammable chemical cement.



| Part # | Description                  | Plug Size Inch | Plug Size mm | Box/Qty |
|--------|------------------------------|----------------|--------------|---------|
| KX-311 | Regular                      | 2½ x ¼         | 64 x 6       | 50      |
| KX-331 | Regular, orange              | 2½ x ¼         | 64 x 6       | 50      |
| KX-901 | Pistol Grip Split-Eye Needle |                |              | 1       |

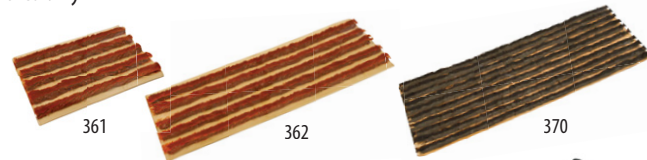
## Chemical Curing Fiber Seal Inserts / Temporary Repairs

| Part # | Description         | Box/Qty |
|--------|---------------------|---------|
| KX-363 | Regular (3¾", 95mm) | 50      |



## Posi-Cord String / Temporary Repairs

Rubber impregnated for vulcanization. Recommended for non-highway service tires only



| Part # | Description                     | Box/Qty |
|--------|---------------------------------|---------|
| 361    | Fat Brown String (4", 100mm)    | 50      |
| 362    | Fat Brown String (8", 200mm)    | 25      |
| 370    | Narrow Black String (7", 178mm) | 50      |
| KX-918 | Pistol Grip Open-Eye Needle     | 1       |



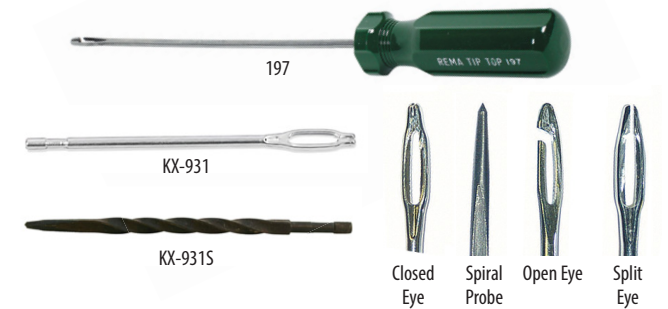
## 365 Deluxe Brown String Kit / Temporary Repairs

Deluxe box contains:  
One jar of Lube, One Knife, and fifty each 361 Fat Brown String Repair 4".

| Part # | Description                      | Box/Qty |
|--------|----------------------------------|---------|
| 365    | 4" Fat-Brown String Kit (Deluxe) | 1       |



## Inserting Tools



| Part #  | Description                            | Box/Qty | Case/Qty |
|---------|----------------------------------------|---------|----------|
| KX-900  | Pistol Grip Open-End Needle            | 1       | 10       |
| KX-901  | Pistol grip split-eye needle           | 1       | 10       |
| KX-902  | Pistol grip spiral cementing tool      | 1       | 10       |
| KX-917  | Pistol Grip Open-Eye Needle            | 1       | 10       |
| KX-918  | Pistol grip open-eye needle            | 1       | 10       |
| KX-928  | Metal T-Handle Split-Eye Needle        | 1       | 10       |
| KX-928S | Solid Chrome T-Handle Split-Eye Needle | 1       | 10       |
| KX-931  | Replacement needle for 928             | 1       | 10       |
| KX-931S | Spiral needle for 928                  | 1       | 10       |
| KX-934  | Pistol Grip Closed Eye Needle          | 1       | 10       |
| KX-966  | Pistol Grip Probe                      | 1       | 10       |
| 197     | Inserting tool                         | 1       |          |

## KX-360 Fat-Brown String Kit / Temporary Repairs

| Part # | Description                                            | Box/Qty |
|--------|--------------------------------------------------------|---------|
| KX-360 | Fat-Brown String Kit (String, Cement & Tools Included) | 1       |



## Tire Repair Wall Cabinet Kit 26-K

Comprehensive service cabinet contains everything required to perform proper one-piece and two-piece nail hole repairs.



26-K

### Contents Include: One each:

#### Repair Units/Kits:

KX-2PC-P (2 PC Passenger Repair Kit)  
KX-002 Jiffy Patch  
KX-387 Combi  
KX-378 Stem  
KX-470 Bias Ply Repairs  
27E Cabinet

#### Chemicals:

KX-511F Cement  
KX-491F Buffing Solution  
KX-507F Bead Sealer  
KX-508F Repair Sealant

#### Tools:

30 Stitcher  
932 Scraper  
6014 Brush  
TCW 210-80 Rasp  
CC-6 Carbide Cutter  
6066 QR Arbor  
6068 QR Adapter

| Part # | Description                  |
|--------|------------------------------|
| 26-K   | Tire Repair Wall Cabinet Kit |

## Tire Repair Wall Cabinet Kit 26-KNH

Comprehensive service cabinet contains everything required to perform proper one-piece and two-piece nail hole repairs.



26-KNH

### Contents Include: One each:

#### Repair Units/Kits:

KX-2PC-P (2 PC Passenger Repair Kit)  
KX-387 Combi-Units  
27E-B Cabinet  
TRM-KEX Chart  
**Chemicals:**  
KX-511F Cement  
KX-491F Buffing Solution  
KX-508F Repair Sealant

#### Tools:

RTT-SSB QR-Low Speed Tire Buffer  
795 Air Vacuum  
30 Stitcher  
932 Scraper  
6014 Brush  
TCW 210-80 Rasp  
CC-6 Carbide Cutter  
190-1 Awl  
6066 QR Arbor  
6068 QR Adapter  
929 Flexible Skiving Knife

| Part # | Description                  |
|--------|------------------------------|
| 26-KNH | Tire Repair Wall Cabinet Kit |

## 2 PC Passenger Repair Kit



KX-2PC-P

Contains 50 each of:

- KX-378 Stem Units with Pilot Wire (1/4" Stem)
- KX-4102 Rubber Reinforced Universal Patches (2 1/4" Medium Round)

| Part #   | Description               | Box/Qty    |
|----------|---------------------------|------------|
| KX-2PC-P | 2 PC Passenger Repair Kit | 50 Repairs |

## 2 PC Truck Repair Kit



KX-2PC-T

Contains 25 each of:

- KX-379 Stem Units with Pilot Wire (3/8" Stem)
- KX-4103 Rubber Reinforced Universal Patches (3 1/4" Large Round)

| Part #   | Description           | Box/Qty    |
|----------|-----------------------|------------|
| KX-2PC-T | 2 PC Truck Repair Kit | 25 Repairs |

## Super Fast Drying Cement

Super fast drying cement for use with all KEX patches and plugs

| Part No | Description                       | Box/Qty |
|---------|-----------------------------------|---------|
| KX-511F | Flammable Chemical Cement (8 oz.) | 10      |



KX-511F

## Cement Dispenser with Brush Cap



6021

| Part No | Description                                      | Box/Qty |
|---------|--------------------------------------------------|---------|
| 6020    | Aluminum cement dispenser, with brush lid, 1 qt. | 1       |
| 6021    | Replacement brush lid for 6020                   | 1       |



6020

## Leak Detector

KEX Spray-On Leak Detector makes locating air leaks easier!

- Available in a ready-to-use spray bottle, or a concentrate
- Ideal for locating Air Leaks
- Quick/Easy Application
- Can be used on all types of Tires, Tubes, Valves and Rims.

| Part # | Description                  | Size                | Box/Qty |
|--------|------------------------------|---------------------|---------|
| KLD-32 | Leak Detector (Ready to use) | 32 oz. spray bottle | 4       |



KLD-32

## Tire Talc

Specially formulated for trouble-free tube installation, reduces folding and sticking which contributes to friction within the tire.

| Part # | Description | Size            | Box/Qty |
|--------|-------------|-----------------|---------|
| KX-550 | Tire Talc   | 1 lb shaker can | 10      |



KX-550

## Pre-Buff Cleaners

KEX Pre-Buff Cleaners are specially formulated to dissolve mold-release lubricants and other contaminants creating a clean surface prior to innerliner buffing. Available in spout-top liquid or spray-top aerosol dispensers. Use Pre-Buff Cleaners in conjunction with scraping tool 932 to dissolve and remove lubricants and contaminants from the innerliner before buffing.

- CFC-free formula requires shorter drying times.
- Same formula for tube or tire preparation.



KX-490F



KX-491F

| Part #  | Description                           | Size                       | Box/Qty |
|---------|---------------------------------------|----------------------------|---------|
| KX-491F | Pre-Buff Cleaner, Aerosol (Flammable) | 11.1 oz. net wt. spray can | 12      |
| KX-490F | Pre-Buff Cleaner (Flammable)          | 32 fl. oz. spout can       | 10      |

## Innerliner Repair Sealant

- Properly applied, Repair Sealant creates an airtight seal around a finished repair, over buffed areas or porous tire innerliners.
- Prudent use of Innerliner Repair Sealant maintains the integrity of the repair.
- CFC-free formula requires shorter drying times.
- It can be used in both COLD and HOT vulcanizing systems.

| Part #  | Description                              | Size       | Box/Qty |
|---------|------------------------------------------|------------|---------|
| KX-508F | Liner Sealer, with brush cap (Flammable) | 16 fl. oz. | 10      |



KX-508F

## Rim & Bead Sealer (flammable)

Rim & Bead Sealer is designed to prevent leaks between the tire and rim.

- Designed to be applied to tire beads during the mounting process.
- Ideally suited for use with new or old tires.
- CFC-free formula requires shorter drying times.

| Part #  | Description                             | Size           | Box/Qty |
|---------|-----------------------------------------|----------------|---------|
| KX-507F | Bead Sealer, Flammable, No-Drip Formula | 32 fl. oz. can | 10      |



KX-507F

## Universal Mounting Paste

- Excellent Lubrication
- Superior "Tack"
- Reduces tire/rim slippage
- Will not discolor/harm alloy & polished wheels
- Great for low profile and run flat tires
- TPMS compatible

Tire Mounting Lubricants make mounting/demounting tires easier, faster, and reduces stress and damage to the tire bead.



| Part #   | Description                                | Size    | Box/Qty | Pallet/Qty |
|----------|--------------------------------------------|---------|---------|------------|
| KX-1052  | Universal Mounting Paste                   | 7.7 lbs | 4       | 120        |
| KX-1052N | Universal Mounting Paste, low profile pail | 7.7 lbs | 4       | 120        |

## Tire Mounting Compounds

KEX Tire Mounting Compounds contain rust inhibitors and will not separate or liquefy. These versatile compounds function as an excellent tire lubricant and for tire bead packing.

- Proper application provides damage-free removal of tires.
- Concentrated; water soluble, can be diluted



| Part #  | Description                     | Size         | Box/Qty | Pallet/Qty |
|---------|---------------------------------|--------------|---------|------------|
|         | BROWN COLOR                     |              |         |            |
| KX-1208 | Mounting compound, concentrated | 8 lbs. pail  | 4       | 120        |
| KX-1280 | Mounting compound, concentrated | 25 lbs. pail | 1       | 48         |

## Tire Mounting Liquid Lube - Blue

Excellent Lubrication  
Superior "Tack" and Bead Sealing qualities  
Reduces tire/rim slippage  
Near neutral pH factor



| Part #     | Description                           | Size      | Box/Qty | Pallet/Qty |
|------------|---------------------------------------|-----------|---------|------------|
| KX-81501-C | Tire Mounting Lubricant, concentrated | 1 US gal. | 4       | 144        |
| KX-81505-C | Tire Mounting Lubricant concentrated  | 5 US gal. | 1       | 36         |

## Black-Ice Stop Rust Rim Release

KEX BLACK-ICE Stop Rust Rim Release prevents rim and bead from bonding together.

- Lubricates rim and tire for easy mounting & demounting
- Protects against rust & corrosion
- Prevents rim and bead from bonding together
- Performs well in Sub-Zero temperatures
- Non-evaporating formula contains no water



| Part # | Description                     | Size         | Box/Qty | Pallet/Qty |
|--------|---------------------------------|--------------|---------|------------|
| 2480   | Black-Ice Stop Rust Rim Release | 25 lbs. pail | 1       | 48         |

## Lube Bottle/Bucket for Tire Changers

28752 Angled Top Lube Bottle/Bucket for Tire Changers For Coats Tire Changer Lube Bottle

Cross Reference Numbers: LB106572, LB 106572, 8106572, TMR106572

78752 Straight Top Lube Bottle/Bucket for Tire Changers For Coats Tire Changer Lube Bottle

Cross Reference Numbers: LB106259, LB 106259, 8106259, 106259, TMR106259

| Part # | Description                                       | Box/Qty |
|--------|---------------------------------------------------|---------|
| 28752  | Angled Top Lube Bottle/Bucket for Tire Changers   | 1       |
| 78752  | Straight Top Lube Bottle/Bucket for Tire Changers | 1       |



## Tire Mounting Lubricant Brackets, Brushes, Swabs

KEX Mounting paste brackets are manufactured of heavy-duty steel, and fit a variety of tire changing machines. Heavy-duty mounting paste brushes and cotton swabs apply paste, compound or liquid products without waste or mess.



| Part #  | Description                                       | Box/Qty | Case/Qty |
|---------|---------------------------------------------------|---------|----------|
| 73      | Mounting paste brush, 45° 1" brush head           | 1       | 10       |
| 73W     | Mounting paste brush, 45° 1" brush head           | 1       | 10       |
| 73T     | Mounting paste brush, 45° 2" brush head           | 1       | 10       |
| 75B     | Mounting bracket for 75 paste, hardware included  | 1       |          |
| 75NB    | Mounting bracket for 75N paste, hardware included | 1       |          |
| 2990    | Swab 12"                                          | 1       | 12       |
| 2990-15 | Swab 15"                                          | 1       | 12       |
| 2990-18 | Swab 18"                                          | 1       | 12       |

| KEX Mounting Lubricants<br>Dilution Ratios                 | Ready<br>to use | DILUTION RATIO          |                        |
|------------------------------------------------------------|-----------------|-------------------------|------------------------|
|                                                            |                 | Parts Tire<br>Lubricant | Parts Water<br>(up to) |
| UNIVERSAL MOUNTING PASTE<br>KX-1052, KX-1052N              | ✓               | DO NOT DILUTE           |                        |
| TIRE MOUNTING COMPOUNDS<br>KX-1208, KX-1280                | ✓               | 1                       | 4                      |
| TIRE MOUNTING LIQUID LUBE - BLUE<br>KX-81501-C, KX-81505-C | ✓               | 1                       | 4                      |
| BLACK-ICE Stop Rust Rim Release<br>2480                    | ✓               | DO NOT DILUTE           |                        |

## Tire Repair Stitchers

Essential service tool for proper installation of tire repair units, tube repair units and repair plugs. Durable wooden handle and ball bearing construction provides optimal service life.



| Part # | Description                       | Width (inch) | Dia. (inch) | Size (inch) | Box/Qty |
|--------|-----------------------------------|--------------|-------------|-------------|---------|
| 30     | Corrugated stitcher, ball bearing | 1½           | ⅝           | 1½ x ⅝      | 10      |
| 908    | Roller Wheel Stitcher Economy     | 0.9          |             | 1           | 1       |
| 6004   | Stitcher                          | 1¼           | ⅝           |             | 1       |
| 6005-E | Ball Bearing Stitcher, Economy    | 2            | ¾           | 2 x ¼       | 10      |

## Gooseneck Stitchers

KEX's new Gooseneck Stitcher is designed to improve maneuverability and reduce stress & fatigue. The Gooseneck Stitcher's engineered design permits better control as the tire technician maneuvers the Gooseneck Stitcher inside the crown and sidewall area of the tire to ensure good adhesion while reducing stress to the wrist and hand.

- Robust, Corrugated Stitcher
- Ball Bearing
- Ergonomic Design
- Efficiency and Comfort
- Enhanced Stitching Performance
- Easy maneuverability



| Part #  | Description                  | Width (inch) | Dia. (inch) | Size (inch) | Box/Qty |
|---------|------------------------------|--------------|-------------|-------------|---------|
| 30-GN   | Gooseneck stitcher, 1½" x ⅝" | 1½           | ⅝           | 1½ x ⅝      | 10      |
| 6005-GN | Gooseneck stitcher, 2" x ¼"  | 2            | ¼           | 2 x ¼       | 10      |

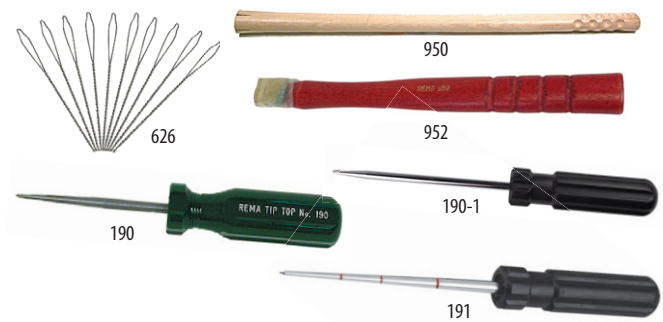
## Tire Innerliner Scrapers

Essential for preparation of proper tire repair and repair unit installation. (Use with liquid or aerosol Pre-Buff cleaning solutions.)



| Part # | Description                           | Box/Qty |
|--------|---------------------------------------|---------|
| 932    | Tire scraper, rubber                  | 10      |
| 28     | Tire scraper, innerliner tool         | 1       |
| 27     | Replacement blade for 28 Tire scraper | 1       |

## Accessories



| Part # | Description                                  | Box/Qty |
|--------|----------------------------------------------|---------|
| 950    | Hammer handle, 30"                           | 1       |
| 952    | Wedge Hammer handle, 17"                     | 1       |
| 626    | Pull wires, for Rema Stems RS-6, RS-8, RS-10 | 10      |
| 190    | Awl                                          | 1       |
| 190-1  | Awl                                          | 1       |
| 191    | Awl with injury guides                       | 1       |

## Brass Bristle Brush

For removal of rubber dust particles after buffing the repair area. KEX does not recommend the use of solvent or liquid cleaners for rubber dust removal after buff.

| Part # | Description          | Box/Qty | Case/Qty |
|--------|----------------------|---------|----------|
| 6014   | Brass cleaning brush | 10      | 12       |



## WSW-BRUSH - Brass Bristle Brush

This high-quality brass brush, with its ergonomic design and long plastic handle, is perfect for cleaning the buffed innerliner before cementing and applying the repair unit.



8 x 9 rows on a 2-5/8" x 8-1/2" plastic handle.



| Part #    | Description                                | Box/Qty |
|-----------|--------------------------------------------|---------|
| WSW-BRUSH | Brass Bristle Brush - Plastic, Long Handle | 1       |

## Marking Crayons

High quality, easy to see marking crayons write on almost anything.



| Part # | Description    | Color  | Box/Qty | Case/Qty |
|--------|----------------|--------|---------|----------|
| 62W    | Marking crayon | white  | 12      | 144      |
| 62Y    | Marking crayon | yellow | 12      | 144      |

## Markal Paintsticks

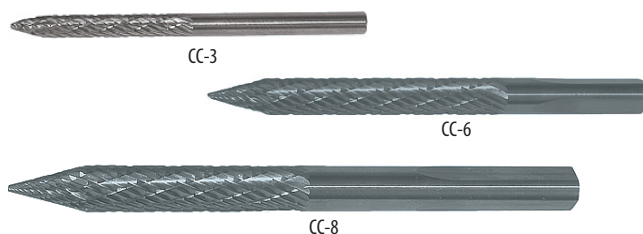
Real paint for long-lasting, highly visible marks. Superior marking on rough, rusty, or dirty surfaces. Solid paint marker eliminates replacement tips, sharpening or priming, increasing productivity. Weather- and UV-resistant for long-lasting marks. Temperature range: -50°F to 150°F (-46°C to 66°C). Made in U.S.A.



| Part #   | Description       | Color              | Box/Qty | Case/Qty |
|----------|-------------------|--------------------|---------|----------|
| 80220    | Markal paintstick | white              | 12      | 144      |
| 80221    | Markal paintstick | yellow             | 12      | 144      |
| 80222    | Markal paintstick | red                | 12      | 144      |
| 80223    | Markal paintstick | black              | 12      | 144      |
| 80224    | Markal paintstick | orange             | 12      | 144      |
| 80225    | Markal paintstick | blue               | 12      | 144      |
| 80226    | Markal paintstick | green              | 12      | 144      |
| 80227    | Markal paintstick | pink               | 12      | 144      |
| 80228    | Markal paintstick | purple             | 12      | 144      |
| 80229    | Markal paintstick | brown              | 12      | 144      |
| 80230    | Markal paintstick | grey               | 12      | 144      |
| KX-82834 | Markal paintstick | fluorescent orange | 12      | 144      |
| KX-82835 | Markal paintstick | fluorescent blue   | 12      | 144      |
| KX-82836 | Markal paintstick | fluorescent green  | 12      | 144      |

## Carbide Cutting Tools

REMA TIP TOP's high tensile carbide cutters are ideal for preparing nail hole through section repair injuries. These diamond cut, long-life cutters are manufactured from high quality, high carbide content steel. (Use with appropriate safety and eye protection.)



| Part #  | Description             | Dia. (inch) | Dia. (mm) | Box/Qty | Case/Qty |
|---------|-------------------------|-------------|-----------|---------|----------|
| KX-CC-3 | Carbide cutter, pointed | 1/8         | 3         | 1       | 10       |
| KX-CC-6 | Carbide cutter, pointed | 1/4         | 6         | 1       | 10       |
| KX-CC-8 | Carbide cutter, pointed | 5/16        | 8         | 1       | 10       |

## Cutting Tools

Essential for preparation and finishing procedures of all types of tire repair.



| Part # | Description                                     | Blade Length (inch) | Blade Length (mm) | Box/Qty |
|--------|-------------------------------------------------|---------------------|-------------------|---------|
| 929    | Wooden handle skiving knife, flexible round tip | 4                   | 101               | 4       |
| 930    | Wooden handle skiving knife, tapered point tip  | 4                   | 101               | 12      |
| 6017   | Rubber knife                                    | 5                   | 127               | 1       |
| 6018   | Skiving knife                                   | 6                   | 152               | 1       |
| 6022   | Sharpening stone                                | 9                   |                   |         |

## Side Cutters

Designed to cut through steel cords quickly and easily while minimizing damage to tire injury.



| Part # | Description                        | Box/Qty |
|--------|------------------------------------|---------|
| 6010   | Side cutter for steel cord, geared | 1       |
| 6012   | Steel nippers, 8"                  | 1       |

## 447 - 8" CHANNELLOCK® High Leverage Diagonal Cutting Pliers

CHANNELLOCK® High Leverage Curved Diagonal Cutting Pliers provide powerful cutting capabilities on the job.

Cutting Capabilities Include:

- Piano wire (0.056" min diameter - 0.091" max diameter)
- Hard wire (0.047" - 0.091") • Medium hard wire (0.047" - 0.091")
- Soft wire (0.162" max diameter)

Features:

- High Leverage
- Curved Diagonal
- Laser heat-treated cutting edges last longer
- Improved High Carbon alloy steel for superior performance
- Channellock Blue® grips for comfort
- Made in USA
- Limited Lifetime Warranty

Specifications:

- Length: 7.75"
- Weight: 0.72 lbs.
- Cutting Edge: 1.02"
- Handle Span: 1.89"
- Jaw Length: 1.02"
- Joint Width: 1.06"
- Joint Thickness: 0.49"



| Part # | Description              | Box/Qty |
|--------|--------------------------|---------|
| 447    | 8" HL Diag Cutting Plier | 1       |

## Quick Release Air Buffer Hardware (Slow-Speed)

Designed for use with KEX slow-speed air buffers; quick-release couplers, arbors and adapters provide optimal versatility when changing tools.

- Tested-tough and performance-proven.



| Part #   | Description                                                                                     | Box/Qty | Case/Qty |
|----------|-------------------------------------------------------------------------------------------------|---------|----------|
| 6053     | Arbor, fixed, for use with 6057 rotary brush, 1/4"                                              | 10      |          |
| 6060     | QR chuck set, 2 QR arbors                                                                       | 1       | 10       |
| 6062     | Jacobs chuck, 3/8"                                                                              | 1       |          |
| 6065     | Accessory kit<br>• 1 6066 QR arbor • 1 6067 QR arbor<br>• 1 6068 QR adapter • 1 6069 QR adapter | 1       |          |
| 6066     | QR arbor, 2 1/4" threaded, 3/8" x 24-T                                                          | 1       | 10       |
| 6067     | QR arbor, 2 1/4" threaded (w/sleeve), 3/8" x 24-T                                               | 1       | 10       |
| 6068-125 | QR adapter, 1/8" shank, for use with CC-3                                                       | 1       | 10       |
| 6068     | QR adapter, 1/4" shank, for use with CC-4.5, CC-6                                               | 1       | 10       |
| 6069     | QR adapter, 3/16" shank, for use with CC-8                                                      | 1       | 10       |
| 77       | Pneumatic tool lubricant, 16 fl. oz. can                                                        | 1       | 12       |

## Miscellaneous Buffing Tools

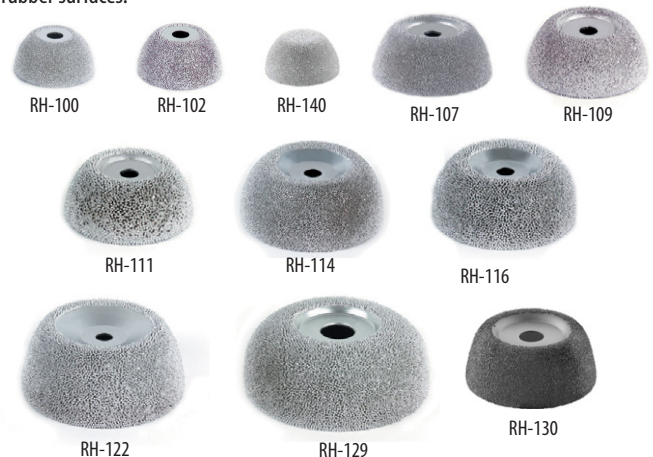


| Part #     | Description                                       | Box/Qty | Case/Qty |
|------------|---------------------------------------------------|---------|----------|
| 33         | Arbor for mounting buffing wheels, 1/4" drill     | 1       | 10       |
| 34         | Buffing wheels, fine grit, 2 1/2" dia.            | 1       | 10       |
| TCW 210-80 | Buffing Rasp 80 grit                              | 10      | 10       |
| 788        | Buffing Kit (#34 x 2, #33 x 1)                    | 1       | 10       |
| 6067       | QR arbor, 2 1/4" threaded (w/sleeve), 3/8" x 24-T | 1       | 10       |

Rubberhog tire repair tools are designed for texturing and removing rubber rapidly with a highly efficient cutting action, leaving a rubber surface that is evenly textured and free of any gouging. (Use with the appropriate safety and eye protection.)

## Rubberhog Flared Contour Wheels

Precision contoured wheels deliver efficient texturing results without gouging rubber surfaces.



| Part # | Description                                              | Diameter (inch) | Height (inch) | Bore (inch) | SSG | Grit | Box/Qty |
|--------|----------------------------------------------------------|-----------------|---------------|-------------|-----|------|---------|
| RH-100 | Flared contour wheel                                     | 1 3/4           | 3/4           | 3/8         | 170 | 60   | 1       |
| RH-102 | Flared contour wheel                                     | 1 3/4           | 3/4           | 3/8         | 230 | 36   | 1       |
| RH-107 | Flared contour wheel                                     | 2 1/2           | 1 1/16        | 3/8         | 170 | 60   | 1       |
| RH-109 | Flared contour wheel                                     | 2 1/2           | 1 1/16        | 3/8         | 230 | 36   | 1       |
| RH-111 | Flared contour wheel                                     | 2 1/2           | 1 1/16        | 3/8         | 390 | 16   | 1       |
| RH-114 | Flared contour wheel                                     | 3               | 1 1/4         | 3/8         | 230 | 36   | 1       |
| RH-116 | Flared contour wheel                                     | 3               | 1 1/4         | 3/8         | 390 | 16   | 1       |
| RH-120 | Flared contour wheel                                     | 3 1/2           | 1 1/2         | 3/8         | 230 |      | 1       |
| RH-122 | Flared contour wheel                                     | 3 1/2           | 1 1/2         | 3/8         | 390 | 16   | 1       |
| RH-129 | Flared contour wheel                                     | 4               | 1 1/2         | 3/4         | 390 | 16   | 1       |
| RH-130 | Flared contour wheel mini-cup                            | 2               | 3/4           | 3/8         | 170 | 60   | 1       |
| RH-140 | Flared contour wheel low-profile, high performance tires | 1 1/4           | 3/4           | 3/8         | 170 | 60   | 1       |

## Rubberhog Polyplugs For Flared Contour Wheels

When used with the corresponding contour wheel, Polyplugs provide a flywheel effect that results in better control when preparing repair surfaces. (Use with the appropriate safety and eye protection.)



| Part # | Description | Diameter (inch) | Bore (inch) | Box/Qty |
|--------|-------------|-----------------|-------------|---------|
| RH-150 | Polyplug    | 1 3/4           | 3/8         | 1       |
| RH-152 | Polyplug    | 2 1/2           | 3/8         | 1       |
| RH-154 | Polyplug    | 3               | 3/8         | 1       |
| RH-156 | Polyplug    | 3 1/2           | 3/8         | 1       |

## Air Buffers And High Speed Grinders

KEX's exceptional quality, durable slow speed (less than 5,000 rpm) Air buffer and high speed grinder (greater than 20,000 rpm) are the right choice for injury and surface preparation. The slow speed buffer is equipped with a quick release chuck and rear exhaust system. The high speed grinder is equipped with a 1/4" Jacob's Chuck.



CP-871C



RTT-SSB

| Part #  | Description                                                                                                                                  | RPM    | Box/Qty |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|
| CP-871C | High Speed Buffer, 3/8"                                                                                                                      | 22,000 | 1       |
| RTT-SSB | REMA TIP TOP Low Speed Tire Buffer<br>With Quick Change Chuck<br>• Includes exhaust hose<br>• Lock off throttle for safety<br>• Rear exhaust | 2,800  | 1       |

## EV Tire Adhesive Removal Kit

Allows technicians to quickly and easily remove the adhesive that holds the sound insulating foam in place on EV tires. To reach the inner liner and perform a proper tire repair, the adhesive inside the tire must first be removed. The EV Adhesive Removal Kit significantly reduces adhesive removal time from 20 minutes to 5 minutes, without introducing harmful chemicals, solvents, or unrecognized methods to the repair process.



Scan for  
instructional video

71524

| Part # | Description                                                                                                        | Box/Qty |
|--------|--------------------------------------------------------------------------------------------------------------------|---------|
| 71524  | EV Tire Adhesive Removal Kit<br>2 x 3" Roloc Disc<br>1 x Quick Change Adapter [2,500 - 2,700 RPM]<br>1 x 2" Holder | 1       |
| 71525  | Replacement Rolocs for EV Adhesive Removal<br>2 x Rolocs [2,500 - 2,700 RPM]                                       | 1       |

## GREASE BULLY Nitrile Gloves

GREASE BULLY Nitrile Gloves are formulated to have superior strength for the Professional Technician. The GREASE BULLY Glove has a strong black color and is resistant to most shop chemicals.

- New Nitrile Formula Offers Extra Comfort & Elasticity
- Delivers Unmatched Feel & Sensitivity
- Powder Free • Textured Fingers • 5.5-mil thick

| Part # | Description                 | Size             | Box/Qty |
|--------|-----------------------------|------------------|---------|
| 9943   | GREASE BULLY Nitrile Gloves | Medium (M)       | 100     |
| 9944   | GREASE BULLY Nitrile Gloves | Large (L)        | 100     |
| 9945   | GREASE BULLY Nitrile Gloves | Extra Large (XL) | 100     |



## DURAGRIP Latex Gloves

The DURAGRIP Glove is a heavy favorite among Tire Repair Techs due to its durability and comfortable Latex fit.

- 60% thicker than traditional latex gloves
- Fully Textured surface • Powder Free • 8 mil thick, 9" long

| Part # | Description           | Size             | Box/Qty |
|--------|-----------------------|------------------|---------|
| 2243   | DURAGRIP Latex Gloves | Medium (M)       | 100     |
| 2244   | DURAGRIP Latex Gloves | Large (L)        | 100     |
| 2245   | DURAGRIP Latex Gloves | Extra Large (XL) | 100     |



## StrongHold Gloves

The StrongHold is a low cost reusable glove with a Nitrile dipped palm and nylon knit backing. The nylon knit backing is breathable and machine washable.

- Chemical resistant palm • Excellent gripping power
- Breathable air flow comfort • Seamless comfort
- Dexterity & Durability

| Part # | Description       | Size             | Box/Qty |
|--------|-------------------|------------------|---------|
| 8544   | StrongHold Gloves | Large (L)        | Pair    |
| 8545   | StrongHold Gloves | Extra Large (XL) | Pair    |



## BEADBAZOOKA® HALF THE SIZE...TWICE THE POWER

The Bead Bazooka® GEN2 utilizes an upgraded version of the rapid air release (RAR) valve technology found in the original Bead Bazooka®, allowing all of the new models to be smaller, lighter, and deliver more power with the same ultra-convenient trigger release.

- New 3-way control cluster
- New serviceable/replaceable 2" RAR valve upgraded from 1.5"
- Ultra-compact, lightweight design saves your back and your time
- New patented recoil reducing barrel
- Trigger release
- Anti-corrosion interior tank coating extends service life

### BB3L2 GAITHER'S BEAD BAZOOKA® V2

- Volume: 3L and 145 PSI / 10 bar pressure
- Works with ATV, motorcycle, car and light commercial vehicles
- Ultra-compact 3L Tank
- Serviceable/Replaceable 2" RAR Valve
- 3-Way Control Cluster
- Anti-corrosion Interior Tank Coating
- Trigger Release
- Recoil-reducing Barrel
- Net Weight 11 lbs / 5 kg



| Part # | Description                          | Box/Qty |
|--------|--------------------------------------|---------|
| BB3L2  | BB3L2 Gaither's Bead Bazooka® V2, 3L | 1       |

### BB6L2 GAITHER'S BEAD BAZOOKA® V2

- Volume: 6L and 145 PSI / 10 bar pressure
- For motorcycle, car, light truck and heavy commercial vehicles
- Ultra-compact 6L Tank
- Serviceable/Replaceable 2" RAR Valve
- 3-Way Control Cluster
- Anti-corrosion Interior Tank Coating
- Trigger Release
- Recoil-reducing Barrel
- Net Weight 16 lbs / 7.2 kg



| Part # | Description                          | Box/Qty |
|--------|--------------------------------------|---------|
| BB6L2  | BB6L2 Gaither's Bead Bazooka® V2, 6L | 1       |

### BB10L2 GAITHER'S BEAD BAZOOKA® V2

- Volume: 10L and 145 PSI / 10 bar pressure
- For car, light truck, heavy commercial and light agricultural vehicles
- Ultra-compact 10L Tank
- Serviceable/Replaceable 2" RAR Valve
- 3-Way Control Cluster
- Anti-corrosion Interior Tank Coating
- Trigger Release
- Recoil-reducing Barrel
- Net Weight 18 lbs / 8.2 kg



| Part # | Description                            | Box/Qty |
|--------|----------------------------------------|---------|
| BB10L2 | BB10L2 Gaither's Bead Bazooka® V2, 10L | 1       |

## 6551 Economy Tire Spreader

The Air Powered REMA TIP TOP 6551 Economy Tire Spreader is designed for servicing and repairing passenger, light truck, medium/heavy truck and small agricultural and OTR tires up to 20.5-25" in size.

### FEATURES:

- Extremely low eight-inch working platform.
- Adjustable spreading jaws that are shorter on the operator's side for improved access and safety.
- Integrated lifting device with a lifting height of 17½"
- Working Height: 30"
- Integrated lighting, a ramp that automatically retracts as tire is lifted.
- Dimensions: 45" x 30½" x 35"
- Weight 310 lbs.



6551

| Part # | Description           | Box/Qty |
|--------|-----------------------|---------|
| 6551   | Economy Tire Spreader | 1       |

## 3050-RB REP-BOY Tire Repair Spreader

The Rep Boy provides easy access for repairing passenger and light truck tires. The adjustable tire spreader can accommodate all tires from garden service through light truck. The Tire spreader has a foot-control swivel, tilts, and is equipped with a tool tray and a floor stand base-plate.

### FEATURES

- Heavy Duty Steel Construction
- Repair Platform rotates 360°
- Spreading claws fit 13"-20" Passenger & Light Truck Tires
- Improved Ergonomic design reduces Operator fatigue
- Oversized Base-Plate provides safe & stable workstation
- Weight: 74lbs.
- Platform Height: 39¼"



3050-RB

| Part #  | Description                                                                                   | Box/Qty |
|---------|-----------------------------------------------------------------------------------------------|---------|
| 3050-RB | Rep-Boy Deluxe Tire Repair Station Specifications:<br>Weight: 74lbs.<br>Platform Height: 39¼" | 1       |

## Gaither LED Pro Light

The Gaither LED Pro Light (KX-GTPL) is the perfect work light solution for everything from wheel wells to tire cavities. Its superior construction, strong magnetic base and USB-C charging make it the obvious choice for those doing service work on all vehicle types.

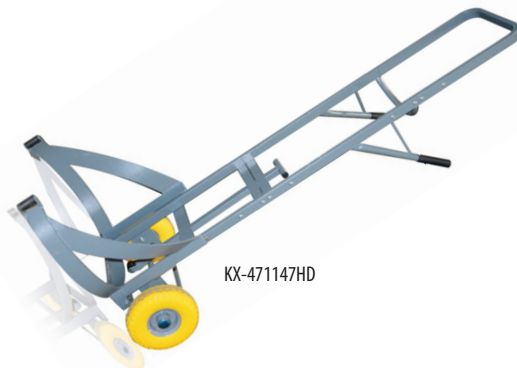
- SMD+ COB LED
- Heavy-duty magnet base
- Front light (800 lumens) and top light (100 lumens)
- 3.5h of battery life (rechargeable)

KX-GTPL

| Part #  | Description           | Box/Qty |
|---------|-----------------------|---------|
| KX-GTPL | Gaither LED Pro Light | 1       |

## Gaither Smart Tire Cart

- Works on Passenger 15" tires up to truck size 245/70R19.5 tires
- Moves Mounted Tires and Wheel sets • Moves Stacks of Tires 8 to 10 high
- Stacks tires closer together than other Carts which creates more storage space
- Great for loading and unloading trucks and containers
- Patented Tilting Action Relieves stress off the user
- New PUSH/PULL system pushes the tires out of the Smart Cart arms without stress
- Fewer moving parts • Easy to Assemble • Gross Shipping Weight 68 lbs.

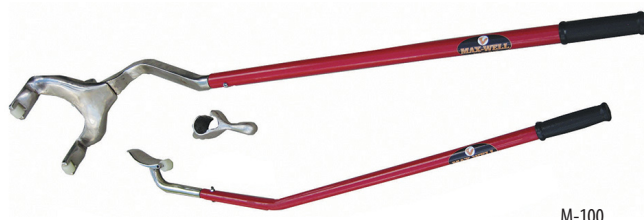


KX-471147HD

| Part #      | Description             | Box/Qty |
|-------------|-------------------------|---------|
| KX-471147HD | Gaither Smart Tire Cart | 1       |

## M-100 Mount/Dismount Tool

Superior Max-Well Tool Quality • Truck Tire Dismount and Mount  
• Time Saving



M-100

| Part # | Description         | Box/Qty |
|--------|---------------------|---------|
| M-100  | Mount/Dismount Tool | 1       |

## Flip Sockets

KEX's Flip Sockets are made from CR-MO (chromium molybdenum) steel. A hex opening on each end so that a single socket can accommodate two hex sizes. The Extra Thin Wall design for easy access to recessed wheel nuts. Designed for use with pneumatic tools, these sockets fit most passenger and light truck lug nuts. To be used with 1/2" drive impact wrench.



| Part #      | Description                                      | Hex Size      | A    | B    | C    | D    | E    | Box/Qty |
|-------------|--------------------------------------------------|---------------|------|------|------|------|------|---------|
| TDFS-S      | 1/2" Drive, Flip Socket - SAE                    | 3/4" x 13/16" | 1.06 | 1.17 | 1.07 | 0.90 | 3.00 | 10      |
| TDFS-M      | 1/2" Drive, Flip Socket - Metric                 | 19mm x 21 mm  | 1.06 | 1.17 | 1.07 | 0.90 | 3.00 | 10      |
| TDFS-S-THIN | 1/2" Drive, Extra Thin Wall Flip Socket - SAE    | 3/4" x 13/16" | 1.02 | 1.10 | 1.07 | 0.90 | 3.00 | 10      |
| TDFS-M-THIN | 1/2" Drive, Extra Thin Wall Flip Socket - Metric | 19mm x 21 mm  | 1.02 | 1.10 | 1.07 | 0.90 | 3.00 | 10      |

Always wear safety goggles when using Impact Tools. Use only properly matched fractional or metric sizes.

## Wheel Weight Pliers

Remove and add wheel weights easily with KEX's quality all-in -one Wheel weight tool.

| Part # | Description       | Box/Qty |
|--------|-------------------|---------|
| 924    | Wheel weight tool | 1       |



924

## Wheel Weight Hammer and Remover

- Only tool able to remove all wheel weights
- Tool will not pinch • Tool will not scratch rims
- Long lasting - parts available • MADE in the USA



| Part #      | Description                                                              | Box/Qty |
|-------------|--------------------------------------------------------------------------|---------|
| UWT-PLIERS  | Wheel Weight Hammer and Remover                                          | 1       |
| UWT-TOOL-RK | UWT-PLIERS parts kit<br>Repair kit includes: 1 x Cap, 1 x Boot, 1 x Hook | 1       |

## Winntec Jacks

### KX-412000 20-Ton Bottle Jack

These professional bottle jacks meet the highest standards. All models have a chrome main ram and a chrome pump piston. The extension screws have a pressed thread. These units are designed to be used horizontally.

| Part #    | Description        | Hydraulic Stroke (in.) | Extension Screw (in.) | Weight (lbs.) | Box/Qty |
|-----------|--------------------|------------------------|-----------------------|---------------|---------|
| KX-412000 | 20-Ton Bottle Jack | 6.30                   | 3.15                  | 23.6          | 2       |

### KX-432001 20-Ton Air Service Trolley Jack

This heavy-duty model is designed for service jobs in the truck industry. This jack has an extension screw and 3 saddles that can be placed on top of each other for added height. Chrome main ram and aluminum air motor guarantee optimum lifetime.

| Part #    | Description                     | Hydraulic Stroke (in.) | Extension Screw (in.) | Weight (lbs.) | Box/Qty |
|-----------|---------------------------------|------------------------|-----------------------|---------------|---------|
| KX-432001 | 20-Ton Air Service Trolley Jack | 4.25                   | 3.15                  | 92            | 1       |

### KX-432003 20-Ton Air/Hydraulic Jack w/Cart

Specifications are similar to KX-432020. These bottle jacks are fixed on a heavy-duty cart, which results in convenient transportation and easy reach of lifting point. Due to the smart cart frame, these jacks can be stored vertically.

| Part #    | Description                      | Hydraulic Stroke (in.) | Extension Screw (in.) | Weight (lbs.) | Box/Qty |
|-----------|----------------------------------|------------------------|-----------------------|---------------|---------|
| KX-432003 | 20-Ton Air/Hydraulic Jack w/Cart | 5.70                   | 3.15                  | 54            | 1       |

### KX-420302 3-Ton Garage Jack (Economy)

Professional universal joint release valve makes it possible to lower the jack with load very precisely and free of any risks. The "protected" pump piston is placed at a 45° angle so a complete pumping stroke will always be utilized.

| Part #    | Description                 | Length (in.) | Width (in.) | Weight (lbs.) | Box/Qty |
|-----------|-----------------------------|--------------|-------------|---------------|---------|
| KX-420302 | 3-Ton Garage Jack (Economy) | 28           | 14.15       | 99            | 1       |

### KX-432020 20-Ton Air/Manual Bottle Jack

Designed with a heavy-duty welded base to prolong service life. Chrome plated RAM and aluminum air motor guarantee optimal performance. Premium air-filter connected to hose.

| Part #    | Description                   | Hydraulic Stroke (in.) | Extension Screw (in.) | Weight (lbs.) | Box/Qty |
|-----------|-------------------------------|------------------------|-----------------------|---------------|---------|
| KX-432020 | 20-Ton Air/Manual Bottle Jack | 5.12                   | 8.66                  | 36.5          | 1       |

### KX-420300 3-Ton Garage Jack, Length

Equipped with a rubber saddle and handle bumper, universal joint release valve results in precise and safe operation while under-load. Pump pistons are angled and protected from contamination resulting in smooth, full pumping stroke. Chrome RAM and durable seals provide long service life.

| Part #    | Description               | Hydraulic Stroke (in.) | Extension Screw (in.) | Weight (lbs.) | Box/Qty |
|-----------|---------------------------|------------------------|-----------------------|---------------|---------|
| KX-420300 | 3-Ton Garage Jack, Length | 31.30                  | 15.15                 | 105           | 1       |

## Gaither Garage Jack G420303

Winntec's G420303 garage jack is built from quality materials and is loaded with features to increase the durability and efficiency of each unit. Each jack is equipped with a rubber saddle and bumper with protected pump pistons to prevent the intrusion of dirt and protect from regular shop-work wear and tear.

1. The pump pistons are placed at a 45° angle so a complete pumping stroke will always be utilized.
2. The professional universal joint release valve makes it possible to lower the jack with a load very precisely and safely.
3. Every model comes equipped with a handle protector.

| Part #  | Description         | Cap U.S./Met. | Min h. in/mm | Max h. in/mm | Length in/mm | Width in/mm | G.W. lbs/kg | N.W. lbs/kg |
|---------|---------------------|---------------|--------------|--------------|--------------|-------------|-------------|-------------|
| G420303 | Gaither Garage Jack | 3.3t/3        | 5.12/130     | 19.29/490    | 31.30/795    | 15.16/385   | 94.7/43     | 90.3/41     |

## Winntec Jack Stands

These stands have a heavy duty robot welded frame, and a multi-position ductile ratchet bar. The quick adjustment mechanism securely locks into the right location. Includes counter-weighted pawl for safe securing.

| Part #    | Description              | Capacity (Ton) | Min. h. (in.) | Max h. (in.) | Length (in.) | Width (in.) | Gross W (lbs.) | Net W (lbs.) | Box/Qty |
|-----------|--------------------------|----------------|---------------|--------------|--------------|-------------|----------------|--------------|---------|
| KX-450301 | 3-Ton Jack Stand         | 3              | 10.55         | 16.73        | 7.48         | 6.69        | 16.53          | 15.43        | 2       |
| KX-451600 | 6-Ton Jack Stands (pair) | 6              | 15.51         | 23.50        | 10.63        | 9.45        | 33.51          | 30.42        | 2       |

## Winntec Jack Stand with Wheels

Sturdy, welded steel construction for superior safety and strength. Nylon wheels and removable handle ensure quick and SAFE positioning of jackstand under vehicle. Handle holder for vertical storage of handle while jackstand is not in use.

| Part #    | Description                   | Capacity (Ton) | Min. h. (in.) | Max h. (in.) | Length (in.) | Width (in.) | Gross W (lbs.) | Net W (lbs.) | Box/Qty |
|-----------|-------------------------------|----------------|---------------|--------------|--------------|-------------|----------------|--------------|---------|
| KX-451205 | 12-Ton Jack Stand with Wheels | 12             | 11.81         | 18.11        | 8.66         | 8.66        | 21             | 20           | 2       |



## Handle Grip Protector

Jack Handle Grip / Protector • Black • Made of Durable Synthetic Rubber



GHP-01

| Part # | Description           | Box/Qty |
|--------|-----------------------|---------|
| GHP-01 | Jack Handle Protector | 10      |

## Gunk Hydraulic Jack Oil

Rust inhibitors, anti-wear & anti-foam agents make Gunk the most demanded Hydraulic Oil in the automotive industry. For use in most-style hydraulic jacks.



KX-HJ032

| Part #   | Description                   | Box/Qty |
|----------|-------------------------------|---------|
| KX-HJ032 | Gunk Hydraulic Jack Oil 32oz. | 12      |

## Vacuum Cleaner

KEX's air operated, wet/dry vacuum replaces standard shop vacuums at repair stations. Small, powerful and versatile, this vacuum quickly removes rubber dust particles or water from tires. (Ideally suited for use on mobile service trucks.)



795



798

| Part # | Description                             | Box/Qty |
|--------|-----------------------------------------|---------|
| 795    | Air Vacuum, includes bag                | 1       |
| 798    | Air Vacuum, includes bag and water hose | 1       |
| 796    | Replacement vacuum bag                  | 1       |
| 797    | Replacement water hose                  | 1       |

## Air Chucks



765



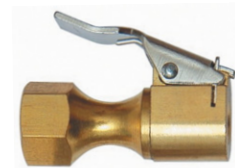
766



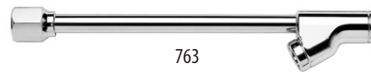
766-0



762



762-0-F, 762-C-F



763



771



771LR



772



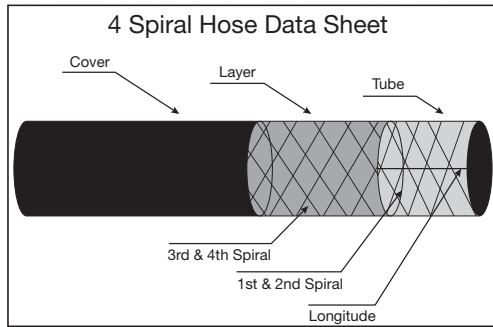
773



774

| Part #  | Description                                                 | Box/Qty |
|---------|-------------------------------------------------------------|---------|
| 765     | Ball chuck, 1/4" NPT female fitting (CLOSED)                | 10      |
| 765-0   | Ball chuck, 1/4" NPT female fitting (OPEN)                  | 10      |
| 766     | Ball chuck, 1/4" NPT female fitting (CLOSED), clip-on type  | 10      |
| 766-0   | Ball chuck, 1/4" NPT female fitting (OPEN), clip-on type    | 10      |
| 762     | Air chuck, Euro-style clip-on (CLOSED)                      | 10      |
| 762-0   | Air chuck, Euro-style clip-on (OPEN)                        | 10      |
| 762-C-F | Air chuck, Euro-style, female fitting (CLOSED)              | 10      |
| 762-0-F | Air chuck, Euro-style, female fitting (OPEN)                | 10      |
| 763     | Air chuck, dual-foot, lock-on                               | 10      |
| 771     | Air chuck, dual-foot, press-on (CLOSED), black poly coating | 10      |
| 771LR   | Air chuck, dual-foot, lock-on, long reach                   | 1       |
| 772     | Air chuck, dual-head, press-on                              | 5       |
| 773     | Air chuck, lock on                                          | 5       |
| 774     | Safety Blow Gun                                             | 5       |

KEX Heavy duty, non-kink reinforced air hoses perform flawlessly in all conditions. Toughness tested, performance proven. Especially designed to withstand the wide range of weather and abrasion conditions experienced by today's active repair facilities.



Typical air-hose products are a combination of three structural elements: Tube, cover and reinforcement layer.

KEX's Red air-hose products consist of an:

- EPDM rubber tube (liner)
- Oil resistant and abrasion resistant EPDM cover
- Unique four-spiral polyester reinforcement layer creating a durable, kink-free design that results in an extended service life.

KEX's redesigned end-fitting incorporates long, vertical splines resulting in a positive and secure fit. Our pin pricked, EPDM cover improves adhesion between the tube and cover, enhancing the integrity of the air-hose. KEX reinforced air-hose products have working pressures to 300psi and burst strength with a safety factor of 4 to 1 and are designed to perform flawlessly between -40° and +200° Fahrenheit.

## Reinforced Air Hose (Red)



891



1/4" NPT male end

| Part # | Description                                 | Length (ft.) | Hose ID (in.) | Box/Qty |
|--------|---------------------------------------------|--------------|---------------|---------|
| 890    | Reinforced air hose with 1/4" NPT male ends | 25           | 3/8           | 1       |
| 893    | Reinforced air hose with 1/4" NPT male ends | 35           | 3/8           | 1       |
| 891    | Reinforced air hose with 1/4" NPT male ends | 50           | 3/8           | 1       |
| 892    | Reinforced air hose                         | 500          | 3/8           | 1       |
| 895    | Reinforced air hose with 1/2" NPT male ends | 50           | 1/2           | 1       |
| 896    | Reinforced air hose                         | 500          | 1/2           | 1       |

## Whip Hose

Made in the U.S.A.



826

| Part # | Description | Length (ft.) | Hose ID (in.) | Box/Qty |
|--------|-------------|--------------|---------------|---------|
| 826    | Whip hose   | 3            | 1/4           | 1       |

## Polyurethane Coil Hose

These lightweight, durable hoses will withstand the rigors of rugged automotive environments while maintaining their resiliency over long periods of time.

- Outstanding coil memory
- Highly kink and abrasion resistant
- Straight tails provide built-in whip hose.
- Resistant to most oils and fuels.



844P

| Part # | Description                                 | Length (ft.) | Hose ID (in.) | Box/Qty |
|--------|---------------------------------------------|--------------|---------------|---------|
| 840P   | Polyurethane coil hose, with 1/4" male ends | 12           | 1/4           | 1       |
| 841P   | Polyurethane coil hose, with 1/4" male ends | 25           | 1/4           | 1       |
| 842P   | Polyurethane coil hose, with 1/4" male ends | 50           | 1/4           | 1       |
| 843P   | Polyurethane coil hose, with 1/4" male ends | 25           | 3/8           | 1       |
| 844P   | Polyurethane coil hose, with 1/4" male ends | 50           | 3/8           | 1       |

## Tire Pressure Gauges

Professional tire pressure gauges for a variety of applications.

- Permanently lubricated • Easy-to-read indicator bar
- Chrome plated, brass body construction



| Part # | Description                                 | Calibration                  | Box/Qty |   |   |   |
|--------|---------------------------------------------|------------------------------|---------|---|---|---|
| 180    | Automotive gauge, angle-head                | 10-50 psi, 1 lb. increments  | 10      | • |   |   |
| 181    | Truck gauge, angle-head                     | 20-120 psi, 2 lb. increments | 10      |   | • |   |
| 182    | Agricultural gauge, air/liquid filled tires | 5-45 psi, 1 lb. increments   | 10      |   |   | • |
| 182S   | Agricultural foot gauge, large bore swivel  | 10-150 psi, 2 lb. increments | 1       |   |   | • |
| 183    | Truck gauge, dual-head                      | 10-150 psi, 2 lb. increments | 10      |   | • |   |
| 184    | Truck gauge, dual-head                      | 20-120 psi, 2 lb. increments | 10      |   | • |   |
| 175    | Truck gauge, dual-head                      | 20-120 psi, 2 lb. increments | 10      |   | • |   |
| 176    | Truck gauge, dual-head                      | 10-150 psi, 2 lb. increments | 10      |   | • |   |
| 179    | Truck gauge, straight-head                  | 20-120 psi, 2 lb. increments | 10      |   | • |   |

## Tread Depth Gauge



| Part # | Description                    | Calibration                | Box/Qty |
|--------|--------------------------------|----------------------------|---------|
| 185    | Tread depth gauge              | 0" to 1" 1/32" increments. | 10      |
| 185C   | Tread depth gauge, color coded | 0" to 1" 1/32" increments. | 10      |

## MAX-WELL Digital and Analog Inflation Gauges

MAX-WELL digital and analog inflation gauges merge ease of use and readability with rapid, safe and cost effective tire pressure maintenance.

- Fast inflation and deflation • Increased accuracy and safety
- Robust design • 6 ft Hose



| Part #   | Description                      | Box/Qty |
|----------|----------------------------------|---------|
| H300532P | MAX-WELL Digital Inflation Gauge | 1       |
| H310532P | MAX-WELL Analog Inflation Gauge  | 1       |

## MAX-WELL Air Square Wall Mounted Inflator

- MAX-WELL Quality • Fast inflation • Sturdy Metal Cabinet
- Can be mounted to a safety cage or wall • State of the art electronics
- Multi choice finished inflation alarms to suite your location (Alarm only, Light only, or Alarm/Light)
- Large LCD numbers ensuring easy legibility • Durable Button controls
- Long Hose to service more than one safety cage. (one at a time)
- Over Pressure system to assure proper bead seating
- Choice of Inflation Units (psi, kpa, Bar, kg/cm2)



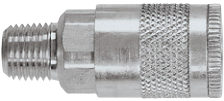
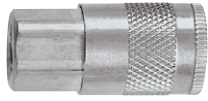
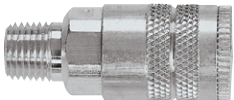
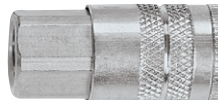
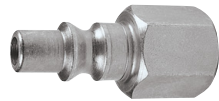
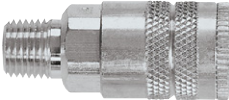
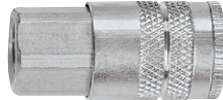
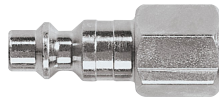
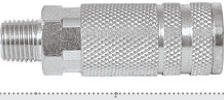
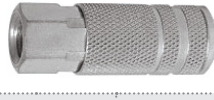
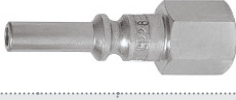
| Part #   | Description         | Box/Qty |
|----------|---------------------|---------|
| AS100-SP | MAX-WELL Air Square | 1       |

## Air Line Couplers and Nipples

KEX's high-performance couplers and nipples are designed for reliability, prolonged service life and are compatible with corresponding interchanges from other manufacturers.

Rated for pressure up to 300 PSI, and operating temperatures from -40° to +250° F, these tools are versatile in any climate or location.

Heat treated and corrosion resistant, KEX's high performance couplers and nipples are built to withstand heavy use in retread and repair facilities.

|            |                                                                         |                                                                                      |                                                                          |                                                                                      |                                                                         |                                                                                      |                                                                          |                                                                                       |
|------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| TRU-FLATE  | <b>2121 TRU-FLATE COUPLER</b><br>¼" Male                                |     | <b>2221 TRU-FLATE NIPPLE</b><br>¼" Male                                  |     | <b>2122 TRU-FLATE COUPLER</b><br>¼" Female                              |    | <b>2222 TRU-FLATE NIPPLE</b><br>¼" Female                                |    |
|            | KEX: 2121<br>Acme: A926B<br>Amflo: C-1<br>ARO: ---<br>Camel: 524        | Dill: D-12<br>Milton: 786<br>NAPA: 4-674<br>Schrader: 3503<br>Tru-Flate: 13/124      | KEX: 2221<br>Acme: A928N<br>Amflo: CP-1<br>ARO: ---<br>Camel: 538        | Dill: D-2C<br>Milton: 783<br>NAPA: 4-685<br>Schrader: 3506<br>Tru-Flate: 12/124      | KEX: 2122<br>Acme: A925B<br>Amflo: C-2<br>ARO: ---<br>Camel: 523        | Dill: D-13<br>Milton: 785<br>NAPA: 4-675<br>Schrader: 3504<br>Tru-Flate: 13/134      | KEX: 2222<br>Acme: A929N<br>Amflo: CP-2<br>ARO: ---<br>Camel: 539        | Dill: D-3C<br>Milton: 784<br>NAPA: 4-686<br>Schrader: 3507<br>Tru-Flate: 12/134       |
|            | <b>2155 TRU-FLATE COUPLER</b><br>½" Male                                |     | <b>2255 TRU-FLATE NIPPLE</b><br>½" Male                                  |     | <b>2156 TRU-FLATE COUPLER</b><br>½" Female                              |    | <b>2256 TRU-FLATE NIPPLE</b><br>½" Female                                |    |
|            | KEX: 2155<br>Acme: ---<br>Amflo: C-9<br>ARO: 23104-014<br>Camel: 564    | Dill: D-16<br>Milton: 1816<br>NAPA: 4-678<br>Schrader: 3511<br>Tru-Flate: 13/704     | KEX: 2255<br>Acme: A942N<br>Amflo: CP-9<br>ARO: ---<br>Camel: 568        | Dill: D-2F<br>Milton: 1817<br>NAPA: 4-689<br>Schrader: 3513<br>Tru-Flate: 12/704     | KEX: 2156<br>Acme: A942B<br>Amflo: C-10<br>ARO: 23104-400<br>Camel: 563 | Dill: D-17<br>Milton: 1815<br>NAPA: 4-679<br>Schrader: 3512<br>Tru-Flate: 13/712     | KEX: 2256<br>Acme: A943N<br>Amflo: CP-10<br>ARO: ---<br>Camel: 569       | Dill: D-3F<br>Milton: 1818<br>NAPA: 4-690<br>Schrader: 3514<br>Tru-Flate: 12/712      |
| ARO        | <b>2131 ARO COUPLER</b><br>¼" Male                                      |    | <b>2231 ARO NIPPLE</b><br>¼" Male                                        |    | <b>2132 ARO COUPLER</b><br>¼" Female                                    |   | <b>2232 ARO NIPPLE</b><br>¼" Female                                      |   |
|            | KEX: 2131<br>Acme: ---<br>Amflo: C-37<br>ARO: 212<br>Camel: 527         | Dill: ---<br>Milton: 776<br>NAPA: 4-6603<br>Schrader: 3525<br>Tru-Flate: 13/324      | KEX: 2231<br>Acme: A914N<br>Amflo: CP-37<br>ARO: A2608<br>Camel: 528     | Dill: 8891<br>Milton: 777<br>NAPA: 4-821<br>Schrader: 3529<br>Tru-Flate: 12/324      | KEX: 2132<br>Acme: A918B<br>Amflo: C-38<br>ARO: 210<br>Camel: 526       | Dill: 8888<br>Milton: 775<br>NAPA: 4-820<br>Schrader: 3526<br>Tru-Flate: 13/334      | KEX: 2232<br>Acme: A916N<br>Amflo: CP-38<br>ARO: A2609<br>Camel: 529     | Dill: 8889<br>Milton: 778<br>NAPA: 4-822<br>Schrader: 3530<br>Tru-Flate: 12/334       |
| INDUSTRIAL | <b>2139 INDUSTRIAL COUPLER</b><br>¼" Male                               |   | <b>2239 INDUSTRIAL NIPPLE</b><br>¼" Male                                 |   | <b>2140 INDUSTRIAL COUPLER</b><br>¼" Female                             |  | <b>2240 INDUSTRIAL NIPPLE</b><br>¼" Female                               |  |
|            | KEX: 2139<br>Acme: A938B<br>Amflo: C-21<br>ARO: 23102-012<br>Camel: 574 | Dill: 10003<br>Milton: 716<br>NAPA: 4-6602<br>Schrader: 5141-12<br>Tru-Flate: 13/224 | KEX: 2239<br>Acme: A910N<br>Amflo: CP-21<br>ARO: 23902-210<br>Camel: 578 | Dill: 10010<br>Milton: 727<br>NAPA: 4-6610<br>Schrader: 5138-11<br>Tru-Flate: 12/224 | KEX: 2140<br>Acme: A937B<br>Amflo: C-20<br>ARO: 23102-200<br>Camel: 573 | Dill: 10002<br>Milton: 715<br>NAPA: 4-6601<br>Schrader: 5142-12<br>Tru-Flate: 13/234 | KEX: 2240<br>Acme: A911N<br>Amflo: CP-20<br>ARO: 23902-200<br>Camel: 579 | Dill: 10009<br>Milton: 728<br>NAPA: 4-6611<br>Schrader: 5139-11<br>Tru-Flate: 12/234  |
| LINCOLN    | <b>2135 LINCOLN COUPLER</b><br>¼" Male                                  |   | <b>2235 LINCOLN NIPPLE</b><br>¼" Male                                    |   | <b>2136 LINCOLN COUPLER</b><br>¼" Female                                |  | <b>2236 LINCOLN NIPPLE</b><br>¼" Female                                  |  |
|            | KEX: 2135<br>Acme: A935B4M<br>Amflo: C-27<br>ARO: ---<br>Camel: 61-486  | Dill: ---<br>Milton: 790<br>NAPA: ---<br>Schrader: 3527<br>Tru-Flate: 13-424         | KEX: 2235<br>Acme: A935N4M<br>Amflo: CP-27<br>ARO: ---<br>Camel: 61-550  | Dill: ---<br>Milton: 791<br>NAPA: ---<br>Schrader: 3531<br>Tru-Flate: 12-424         | KEX: 2136<br>Acme: A935B4F<br>Amflo: C-28<br>ARO: ---<br>Camel: 61-548  | Dill: ---<br>Milton: ---<br>NAPA: ---<br>Schrader: 3528<br>Tru-Flate: 13-434         | KEX: 2236<br>Acme: A935N4F<br>Amflo: CP-28<br>ARO: ---<br>Camel: 61-551  | Dill: ---<br>Milton: 792 NAPA:<br>---<br>Schrader: 3532<br>Tru-Flate: 12-434          |

### 2124 TRU-FLATE Female Ring Sleeve ¼"



|                        |                         |                           |                          |                                     |
|------------------------|-------------------------|---------------------------|--------------------------|-------------------------------------|
| KEX: 2124<br>Acme: --- | Amflo: C-2R<br>ARO: --- | Camel: 545<br>Dill: D-13R | Milton: 787<br>NAPA: --- | Schrader: 3505<br>Tru-Flate: 13/136 |
|------------------------|-------------------------|---------------------------|--------------------------|-------------------------------------|

Never exceed pressure limits of the air tool or air hose that you are working with. Designed for use with air lines with a maximum pressure of 300 PSI. (Not intended for use with food or consumable products.) Failure to follow directions and pressure limits may result in injury or property damage).

## Snap-In Valves (Passenger/Light Truck)

Ozone Tested and manufactured from EPDM rubber, all KEX passenger/light truck valves are equipped with high temperature valve cores.

- TR Valves packed 50 per bag/10 bags per box



| Part #   | Description                  | Rim Hole Dia. Inch | Max. psi | Valve Size Inch | Valve Size mm | Box/Qty |
|----------|------------------------------|--------------------|----------|-----------------|---------------|---------|
| TR-412   | Snap-in valve                | .453               | 65       | 7/8             | 25            | 500     |
| TR-412C  | Snap-in valve, chrome        | .453               | 65       | 1               | 25            | 500     |
| TR-413   | Snap-in valve                | .453               | 65       | 1 1/4           | 31            | 500     |
| TR-413C  | Snap-in valve, chrome        | .453               | 65       | 1 1/4           | 31            | 500     |
| TR-414   | Snap-in valve                | .453               | 65       | 1 1/2           | 37            | 500     |
| TR-415   | Snap-in valve                | .625               | 65       | 1 1/4           | 31            | 500     |
| TR-418   | Snap-in valve                | .453               | 65       | 2               | 50            | 500     |
| TR-418C  | Snap-in valve, chrome        | .453               | 65       | 2               | 50            | 500     |
| TR-423   | Snap-in valve                | .453               | 65       | 2 1/2           | 62            | 500     |
| TR-425   | Snap-in valve                | .625               | 65       | 2 1/2           | 62            | 500     |
| TR-600HP | Snap-in valve, high pressure | .453               | 80       | 1 3/4           | 45            | 500     |
| TR-602HP | Snap-in valve, high pressure | .453               | 80       | 2               | 50            | 500     |
| TR-801HP | Snap-in valve, high pressure | .625               | 80       | 1 1/4           | 31            | 500     |
| TR-802HP | Snap-in valve, high pressure | .625               | 80       | 2               | 50            | 500     |

## Clamp-In Valves (Passenger/Light Truck)

Produced with EPDM grommets, all KEX Clamp-In valves are equipped with high temperature valve cores.



| Part #  | Description                         | Rim Hole Dia. Inch | Valve Size Inch | Valve Size mm | Box/Qty |
|---------|-------------------------------------|--------------------|-----------------|---------------|---------|
| TR-416  | Clamp-In valve, custom wheel        | .453               | 1 1/16          | 39            | 100     |
| TR-416L | Clamp-In Valve 2-1/4" long          | .453               | 2 1/4           | 57            | 100     |
| TR-417  | Toronado/Eldorado clamp-in valve    |                    |                 |               | 5       |
| 1-802-1 | Clamp-in valve, chrome, low profile |                    |                 |               | 50      |
| 1-810   | Clamp-in valve, chrome              | .453               | 1 1/4           | 31            | 100     |
| 1-811   | Clamp-in valve, brass               | .453               | 2               | 50            | 100     |

Always take the proper precautions and use the appropriate tools when installing tire valves into wheels.

## Clamp-In Valves (Specialty Domestic/Import)

Produced with EPDM grommets, all KEX Clamp-In valves are equipped with high temperature valve cores.



| Part # | Description           | Valve Size Inch | Valve Size mm | Box/Qty |
|--------|-----------------------|-----------------|---------------|---------|
| 1-860  | ENKEI Style, mini     | 1 1/16          | 34            | 50      |
| 1-816  | ENKEI Style, 45° bend | 2 3/16          | 55            | 50      |
| 1-815  | ENKEI Style, short    | 1 1/16          | 39            | 50      |

## Clamp-In Truck Valves

Compatible with all standard 5/8" side-hole mount. Produced with EPDM grommets, all KEX Clamp-In valves are equipped with high temperature valve cores.

- Packed 10 per bag/10 bags per box



| Part #    | Description                                                                                | Valve Size Inch | Valve Size mm | Box/Qty |
|-----------|--------------------------------------------------------------------------------------------|-----------------|---------------|---------|
| TR-500    | Brass truck valve                                                                          | 2 5/32          | 54            | 100     |
| TR-500A   | Brass truck valve, 23° bend                                                                | 2 5/32          | 54            | 100     |
| TR-501    | Brass truck valve                                                                          | 1 1/2           | 32            | 100     |
| TR-570    | Brass truck valve                                                                          | 3 9/32          | 82            | 100     |
| TR-571    | Brass truck valve                                                                          | 3 3/8           | 85            | 100     |
| TR-572    | Brass truck valve                                                                          | 3 3/4           | 95            | 100     |
| TR-572-13 | Brass truck valve                                                                          | 3 3/4           | 95            | 100     |
| TR-573    | Brass truck valve                                                                          | 4 3/8           | 110           | 100     |
| TR-574    | Brass truck valve                                                                          | 5               | 125           | 100     |
| TR-575    | Brass truck valve                                                                          | 1 1/8           | 29            | 100     |
| TR-501-0V | Brass truck valve, oval hole                                                               | 1 1/4           | 31            | 100     |
| TR-500RHP | Rim Hole Plugs, 5/8"                                                                       |                 |               | 100     |
| TR-RG15   | EPDM rubber grommet, temperature rated to 212°F (TR500, TR501, TR571, TR572, TR573, TR574) |                 |               | 50      |

## Aluminum Wheel Truck Valves

Compatible with drop center aluminum wheel designs with 5/8" valve hole. Produced with EPDM grommets, all KEX Clamp-In valves are equipped with high temperature valve cores.

- Packed 10 per bag/10 bags per box

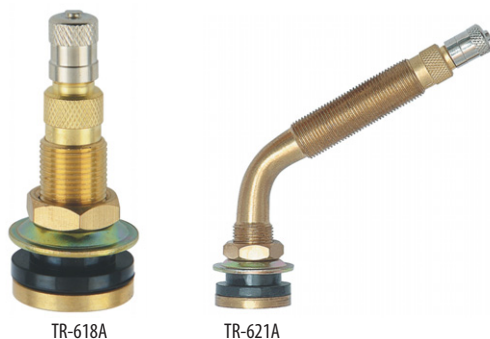


| Part #  | Description                                                                   | Valve Size Inch | Valve Size mm | Box/Qty |
|---------|-------------------------------------------------------------------------------|-----------------|---------------|---------|
| TR-509  | Aluminum wheel valve                                                          | 4 3/4           | 120           | 100     |
| TR-510  | Aluminum wheel valve                                                          | 5 1/2           | 140           | 100     |
| TR-511  | Aluminum wheel valve                                                          | 4 3/4           | 107           | 100     |
| TR-RG46 | EPDM rubber grommet<br>temperature rated to 212°F<br>(TR-509, TR-510, TR-511) |                 |               | 50      |

## Agricultural/Air-Liquid Clamp-In Valves

Equipped with Fast Flow valve cores for faster filling of air or liquid.

- Packed 10 per bag/5 bags per box.



| Part #  | Description                                                                  | Box/Qty |
|---------|------------------------------------------------------------------------------|---------|
| TR-618A | Agricultural/Air-Liquid clamp-in valve, fast flow valve core, .625" rim hole | 50      |
| TR-621A | Agricultural/Air-Liquid clamp-in valve, with 65° bend, .625" rim hole        | 50      |

## Metric O-Ring Seal Valves for Motorcycles

| Part #   | Description                    | Box/Qty |
|----------|--------------------------------|---------|
| 1-831-14 | Clamp-In Valve for Motorcycles | 50      |



1-831-14

Always take the proper precautions and use the appropriate tools when installing tire valves into wheels.

## Metric Clamp-In Valves

Compatible with aluminum wheel designs with .389 valve hole. Produced with Silicone grommets, all KEX clamp-in valves are equipped with high temperature valve cores.

- Packed 10 per bag/10 bags per box



| Part #   | Description                                   | Bending angle (°) | Valve Size mm | Box/Qty |
|----------|-----------------------------------------------|-------------------|---------------|---------|
| TR-542   | Clamp-in valve                                |                   | 32            | 100     |
| TR-543   | Clamp-in valve                                |                   | 60            | 100     |
| TR-543C  | Clamp-in valve                                | 45                | 60            | 100     |
| TR-543D  | Clamp-in valve                                | 60                | 60            | 100     |
| TR-543E  | Clamp-in valve                                | 75                | 60            | 100     |
| TR-544   | Clamp-in valve                                |                   | 73            | 100     |
| TR-544D  | Clamp-in valve                                | 60                | 73            | 100     |
| TR-545   | Clamp-in valve                                |                   | 90            | 100     |
| TR-545D  | Clamp-in valve                                | 60                | 90            | 100     |
| TR-545E  | Clamp-in valve                                | 75                | 90            | 100     |
| TR-546   | Clamp-in valve                                |                   | 110           | 100     |
| TR-546D  | Clamp-in valve                                | 60                | 110           | 100     |
| TR-546E  | Clamp-in valve                                | 70                | 110           | 100     |
| TR-547D  | Clamp-in valve                                | 60                | 110           | 100     |
| TR-RG60  | O-Ring for TR-540 Series                      |                   |               | 100     |
| TR-RG60G | O-Ring green identification ring for nitrogen |                   |               | 100     |

## Metric Clamp-In Valves

Compatible with aluminum wheel designs with .389 valve hole. Produced with Viton grommets, all KEX clamp-in valves are equipped with high temperature valve cores.

- Viton grommets offer a greater temperature range, a better seal, and a longer service life.
- Easier installation than other Metric valve designs



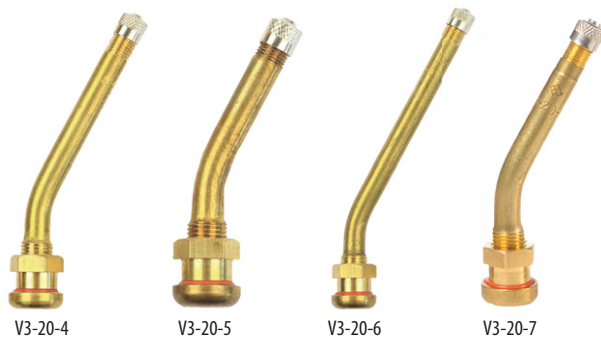
| Part #  | Description    | Bending angle (°) | Valve Size mm | Box/Qty |
|---------|----------------|-------------------|---------------|---------|
| TR-552  | Clamp-in valve |                   | 32            | 100     |
| TR-553  | Clamp-in valve |                   | 60            | 100     |
| TR-553C | Clamp-in valve | 45                | 60            | 100     |
| TR-553E | Clamp-in valve | 75                | 60            | 100     |
| TR-554D | Clamp-in valve | 60                | 73            | 100     |
| TR-555D | Clamp-in valve | 60                | 90            | 100     |
| TR-555E | Clamp-in valve | 75                | 90            | 100     |

## Metric O-Ring Seal Valves for Steel Wheels

Single Bend brass valves with 9.7mm (.390") valve hole.

Designed for use on select ISUZU and BUDD steel wheel applications.

All sizes equipped with Hi-Temp Valve Cores, Hi-Temp Valve Caps, Hi-Temp O-Ring Seals. 100/Box (10pcs/10/bags)



| Part #  | Description                       | Bending angle (°) | Box/Qty |
|---------|-----------------------------------|-------------------|---------|
| V3-20-4 | Clamp-In Truck Valve, 22mm x 60mm | 27                | 100     |
| V3-20-5 | Clamp-In Truck Valve, 25mm x 70mm | 27                | 100     |
| V3-20-6 | Clamp-In Truck Valve, 25mm x 85mm | 27                | 100     |
| V3-20-7 | Clamp-In Truck Valve, 25mm x 50mm | 27                | 100     |

## Specialty Large Bore/OTR Tire Valves and Hardware

Rema quality OTR products meet the demanding pressure and heat demands of the severe operational environments of today's OTR equipment. The hardware, components and tools are selected to provide reliable service and functional ease to service the popular OTR and Agricultural configurations.



| Part #        | Description                                  | Box/Qty |
|---------------|----------------------------------------------|---------|
| J-4000-2.50   | Swivel valve stem, 90° x 2½"                 | 1       |
| J-4000-4.50   | Swivel valve stem, 90° x 4½"                 | 1       |
| J-650         | Swivel valve stem, 80° x 3½"                 | 1       |
| J-651         | Swivel valve stem, 90° x 4½"                 | 1       |
| CH-16 & SP-8  | Air-water core housing & assembly            | 1       |
| AD1           | Adapter, large bore to standard bore         | 1       |
| 52872         | Adapter, large bore (f) to standard bore (m) | 100     |
| J-1014        | Repair valve, screw-on, straight 2.31"       | 1       |
| J-1076C       | Repair valve, screw-on, 90° 2.825"           | 1       |
| J-1175C       | Repair valve, screw-on, 88° 4½"              | 1       |
| TR-C-2        | Valve core, large bore (short)               | 1       |
| TR-VC-6       | Valve cap, large bore, screwdriver type      | 50      |
| TR-VC-7       | Valve cap, large bore, hex type              | 50      |
| SP2           | Tubeless spud, 1½" rim hole                  | 1       |
| EX-1522       | 4-Way valve repair tool, large bore          | 10      |
| TR-621A       | Agr./OTR clamp-in valve, 60° bend            | 1       |
| EX-685        | Valve core tool, large/standard bore         | 10      |
| 218-LB (CH-3) | Core housing for fast flow valve 9T-LB       | 10      |

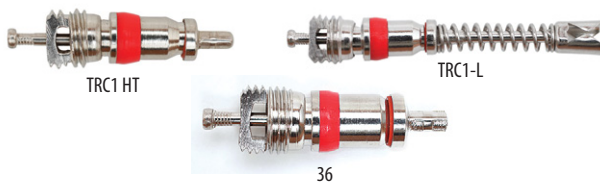
## Valve Extensions - Truck & Bus

Extends effective length of tire valves for improved service access.



| Part # | Description            | Effective Length (inch) | Box/Qty |
|--------|------------------------|-------------------------|---------|
| 402    | Valve extension, metal | 2¼                      | 5       |
| 403    | Valve extension, metal | 3¾                      | 5       |
| 404    | Valve extension, metal | 4¾                      | 5       |
| 405    | Valve extension, metal | 5¼                      | 5       |

## Valve Cores



| Part #  | Description                             | TR No. | Box/Qty |
|---------|-----------------------------------------|--------|---------|
| TRC1 HT | Valve core, high-temp., std. bore       | TRC1   | 100     |
| TRC1-L  | Valve core, high-temp., std. bore, long | TRC1-L | 100     |
| 36      | Valve core, large bore                  | TRC2   | 100     |

## Valve Extensions

Extends effective length of tire valves for improved service access.



| Part # | Description                        | Effective Length (inch) | Box/Qty |
|--------|------------------------------------|-------------------------|---------|
| 407    | Valve extension, plastic           | 1½                      | 50      |
| 408    | Valve extension, plastic           | ¾                       | 50      |
| 409    | Valve extension, plastic           | 1¼                      | 50      |
| 410    | Valve extension, metal             | ¾                       | 10      |
| 410    | Valve extension, metal             | ¾                       | 10      |
| 430    | Valve extension, Chrome, 135° bend | 1½                      | 100     |
| 431    | Valve extension, Chrome, 90° bend  | 1¾                      | 100     |

## Valve Caps, Plastic



| Part #   | Description                | Box/Qty |
|----------|----------------------------|---------|
| 39BLACK  | Valve cap, dome type, VC-8 | 1000    |
| 39GREEN  | Valve cap, nitro-green     | 100     |
| 39GRAY   | Valve cap, gray            | 100     |
| 39BLUE   | Plastic valve cap, blue    | 100     |
| 2-104AP  | Chrome Plastic N2 cap      | 100     |
| 2-158G   | TPMS Valve cap, long green | 100     |
| 39B-TPMS | TPMS Valve cap, black      | 100     |

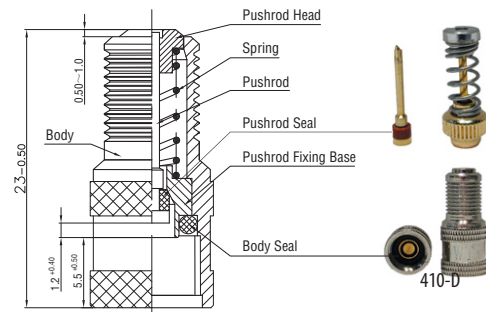
## Valve Caps, Metal



| Part #  | Description                            | TR No. | Box/Qty |
|---------|----------------------------------------|--------|---------|
| 37      | Valve cap, fork-type, standard metal   | TRVC2  | 100     |
| 38      | Valve cap, dome-type, standard metal   |        | 100     |
| 40      | Valve cap, chrome hex-head             |        | 100     |
| 42HT    | Valve cap, dome type, high-temperature | TRVC3  | 100     |
| EX-1281 | Valve cap, fork type, large bore       | TRVC6  | 50      |
| EX-1283 | Valve cap, hex type, large bore        | TRVC7  | 50      |

## Double Seal Valve Cap

Replaces standard valve caps on valve stems, enabling the operator to check pressure or inflate tires without removing the cap. Temperature rated seal: -40°F to 212°F.



| Part # | Description                       | Effective Length (inch) | Box/Qty |
|--------|-----------------------------------|-------------------------|---------|
| 410-D  | Double seal cap, high-temperature | ¾                       | 50      |

## Valve Service Tools



| Part # | Description                                      | Box/Qty | Case/Qty |
|--------|--------------------------------------------------|---------|----------|
| 41     | Valve insertion tool (pull through style)        | 1       | 10       |
| 41NM   | Valve installation tool, no mar, (screw-on type) | 1       | 10       |
| 41BG   | Valve puller bent with guard                     | 1       | 10       |
| 44     | Valve insertion/removal tool (Big Yank)          | 1       | 10       |
| 836    | Valve fishing tool, cable-type, 8"               | 10      | 50       |
| 837    | Valve fishing tool, cable-type, 24"              | 10      | 50       |
| 449    | Valve nut wrench                                 | 1       | 10       |

## Valve Core Service Tools



| Part #  | Description                                                                    | Box/Qty |
|---------|--------------------------------------------------------------------------------|---------|
| 186     | Valve repair tool, 4-in-1                                                      | 10      |
| 188     | Cap & core remover tool, fits #37 cap                                          | 5       |
| 187     | Screwdriver handle valve core tool                                             | 10      |
| EX-1522 | Valve repair tool, large bore 4-in-1                                           | 10      |
| EX-685  | Valve core removal and inserting tool, standard & large bore screwdriver-style | 10      |
| 834     | Valve core removal tool                                                        | 10      |
| 835     | Tube deflator                                                                  | 50      |
| TVCT    | Torque valve core tool, TPMS service                                           | 10      |

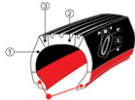
## KEX Tire Repair Products Shelf Life

**KEX Tire Repair Products** are warrantied from the Date of Manufacture as follows:

| Product Group                   | Part No   | Description                                            | Shelf Life |         |
|---------------------------------|-----------|--------------------------------------------------------|------------|---------|
|                                 |           |                                                        | 2 Years    | 5 Years |
| KEX Repair Units                |           | Radial, Bias and Tube Repairs                          | X          |         |
| KEX Cements                     | KX-511F   | All Purpose Cement (8 fl. oz.)                         | X          |         |
| KEX Chemicals                   | KX-507F   | Bead Sealer                                            | X          |         |
|                                 | KX-508F   | Liner Sealer                                           | X          |         |
|                                 | KX-490F   | Pre-Buff Cleaner (Liquid)                              |            | X       |
|                                 | KX-491F   | Pre-Buff Cleaner (Aerosol)                             | X          |         |
| Mounting Compounds & Lubricants | KX-1052   | Universal Mounting Paste (7.7 lb.)                     | X          |         |
|                                 | KX-1052N  | Universal Mounting Paste (7.7 lb.)                     | X          |         |
|                                 | KX-1208   | Concentrated Tire and Tube Mounting Compound (8 lb. )  | X          |         |
|                                 | KX-1280   | Concentrated Tire and Tube Mounting Compound (25 lb. ) | X          |         |
|                                 | KX-81501C | Tire Mounting Liquid Lube Concentrate (1 gal.)         | X          |         |
|                                 | KX-81505C | Tire Mounting Liquid Lube Concentrate (5 gal.)         | X          |         |

## Radial & Bias Ply Tire Section Repair Charts

### RADIAL TIRE SECTION REPAIR CHART

|                      |                     |                                                                                   |                |                                                                                   |
|----------------------|---------------------|-----------------------------------------------------------------------------------|----------------|-----------------------------------------------------------------------------------|
| <b>W = Width</b>     | <b>1 = Sidewall</b> |  |                |  |
| <b>L = Length</b>    | <b>2 = Tread</b>    |                                                                                   |                |                                                                                   |
| <b>C = Max. Dia.</b> | <b>3 = Shoulder</b> |                                                                                   |                |                                                                                   |
|                      |                     | <b>Sidewall Injury</b>                                                            |                | <b>Crown Injury</b>                                                               |
| <b>Heavy Truck</b>   |                     | <b>Injury Inches</b>                                                              |                |                                                                                   |
| <b>8.25-10.00</b>    | <b>11.00-14.00</b>  |                                                                                   |                |                                                                                   |
| <b>9R-11R</b>        | <b>12R-15R</b>      |                                                                                   |                |                                                                                   |
| <b>235/-285/</b>     | <b>295/-365/</b>    | <b>W</b>                                                                          | <b>L</b>       | <b>C</b>                                                                          |
| <b>MX 20</b>         | <b>MX 20</b>        | 1 Cable                                                                           | 1-1/2" (37mm)  | 3/8" (10mm)                                                                       |
| <b>MX 22</b>         | <b>MX 22</b>        | 1 Cable                                                                           | 3-1/8" (78mm)  |                                                                                   |
| <b>MX 24</b>         | <b>MX 24</b>        | 1 Cable                                                                           | 4-3/4" (120mm) |                                                                                   |
| <b>MX 20</b>         | <b>MX 22</b>        | 2 Cables                                                                          | 3/4" (20mm)    |                                                                                   |
| <b>MX 22</b>         | <b>MX 24</b>        | 2 Cables                                                                          | 1-1/2" (37mm)  |                                                                                   |
| <b>MX 24</b>         | <b>MX 40</b>        | 2 Cables                                                                          | 2-3/4" (70mm)  |                                                                                   |
| <b>MX 24</b>         | <b>MX 40</b>        | 3/8" (10mm)                                                                       | 1" (25mm)      |                                                                                   |
| <b>MX 24</b>         | <b>MX 40</b>        | 3/8" (10mm)                                                                       | 1-1/2" (37mm)  |                                                                                   |
| <b>MX 24</b>         | <b>MX 42</b>        | 3/8" (10mm)                                                                       | 2-3/8" (60mm)  |                                                                                   |
| <b>MX 44</b>         | <b>MX 44</b>        | 3/8" (10mm)                                                                       | 5-1/8" (128mm) |                                                                                   |
| <b>MX 40</b>         | <b>MX 40</b>        | 1/2" (12mm)                                                                       | 1-1/2" (37mm)  | 1/2" (12mm)                                                                       |
| <b>MX 40</b>         | <b>MX 42</b>        | 1/2" (12mm)                                                                       | 2-3/4" (70mm)  |                                                                                   |
| <b>MX 42</b>         | <b>MX 42</b>        | 1/2" (12mm)                                                                       | 3-3/4" (95mm)  |                                                                                   |
| <b>MX 44</b>         | <b>MX 44</b>        | 1/2" (12mm)                                                                       | 5-1/8" (128mm) |                                                                                   |
| <b>MX 40</b>         | <b>MX 40</b>        | 3/4" (20mm)                                                                       | 1" (25mm)      | 3/4" (20mm)                                                                       |
| <b>MX 40</b>         | <b>MX 42</b>        | 3/4" (20mm)                                                                       | 2-1/2" (62mm)  |                                                                                   |
| <b>MX 42</b>         | <b>MX 42</b>        | 3/4" (20mm)                                                                       | 4-3/8" (110mm) |                                                                                   |
| <b>MX 44</b>         | <b>MX 44</b>        | 3/4" (20mm)                                                                       | 5-1/8" (128mm) |                                                                                   |
| <b>MX 42</b>         | <b>MX 44</b>        | 1" (25mm)                                                                         | 2" (50mm)      | 1" (25mm)                                                                         |
| <b>MX 42</b>         | <b>MX 44</b>        | 1" (25mm)                                                                         | 3-1/8" (78mm)  |                                                                                   |
| <b>MX 44</b>         | <b>MX 44</b>        | 1" (25mm)                                                                         | 4" (100mm)     |                                                                                   |
| <b>MX 42</b>         | <b>MX 44</b>        | 1-1/4" (31mm)                                                                     | 2" (50mm)      | 1-1/4" (31mm)                                                                     |
| <b>MX 44</b>         | <b>MX 44</b>        | 1-1/4" (31mm)                                                                     | 3-1/8" (78mm)  |                                                                                   |
| <b>MX 44</b>         |                     | 1-1/4" (31mm)                                                                     | 4" (100mm)     |                                                                                   |
| <b>MX 44</b>         | <b>MX 44</b>        | 1-1/2" (37mm)                                                                     | 2" (50mm)      | 1-1/2" (37mm)                                                                     |
| <b>MX 44</b>         |                     | 1-1/2" (37mm)                                                                     | 3-1/8" (78mm)  |                                                                                   |

#### Radial Tire Patch Selection

- A. Only after the injury has been properly skived/prepared can the correct patch be selected.
- B. Measuring the injury:  
 Sidewall Injuries: Measure the length (L) and width (W) of the injury.  
 Tread/Crown Injuries:  
 1) If the skived/dressed injury is round, measure only the maximum diameter (C) of the injury at the body ply.  
 2) If the skived/dressed injury is oval or oblong shaped, measure both the length (L) and the width (W) of the injury at the body ply.  
 3) If the maximum measurement of (C) is greater the L and W measurement, select the larger of the patches.
- C. Using the Tire Size column on the Application Charts, find the injury area column – Sidewall, Tread/Crown or Shoulder – and go down the corresponding column until you match the measured size of the injury to the correct patch.

### BIAS PLY TIRE SECTION REPAIR CHART

|        |        | Ply Rating |     |     |     |     |     |     |     |
|--------|--------|------------|-----|-----|-----|-----|-----|-----|-----|
| Inches | mm     | 4          | 6   | 8   | 10  | 12  | 14  | 16  | 18  |
| 3/8"   | (10mm) | 470        | 470 | 470 | 470 | 470 | 470 | 471 | 472 |
| 1/2"   | (12mm) | 470        | 470 | 470 | 470 | 471 | 472 | 472 | 473 |
| 3/4"   | (20mm) | 470        | 470 | 470 | 470 | 471 | 472 | 473 | 473 |
| 1"     | (25mm) | 470        | 470 | 471 | 472 | 472 | 473 | 473 | 474 |
| 1 1/2" | (37mm) | 471        | 471 | 471 | 472 | 473 | 474 | 474 | 474 |
| 2"     | (50mm) | 473        | 473 | 473 | 474 | 474 | 474 | 474 |     |
| 2 1/2" | (62mm) | 474        | 474 | 474 | 474 | 474 |     |     |     |

#### Bias Tire Patch Selection

- A. Only after the injury has been properly skived can the correct patch be selected.
- B. When measuring the injury, always measure the longest damage of the top damaged ply.
- C. Note the ply rating of the tire. (This can be found embossed into the sidewall of the tire).
- D. Find the injury size on the Application Chart, read across the chart to find the correct patch based on the tire ply rating.



## Nail Hole Repair Chart - Crown Area Only

| Nail Hole Repair Chart<br>Crown Area Only |             |             |                | 1-PIECE REPAIR<br>(Injury Angle < 25 degrees) |                             |                         | 2-PIECE REPAIR<br>(Injury Angle > 25 degrees) |                                             |                                              |                   |                                     |                  |
|-------------------------------------------|-------------|-------------|----------------|-----------------------------------------------|-----------------------------|-------------------------|-----------------------------------------------|---------------------------------------------|----------------------------------------------|-------------------|-------------------------------------|------------------|
| TIRE TYPE                                 | Injury Size | Injury Size | Carbide Cutter | Combi with Pilot Wire                         | Patch-N-Plug Non-Reinforced | Patch-N-Plug Reinforced | STEM                                          | PATCH                                       |                                              |                   |                                     | BIAS PATCH       |
|                                           |             |             |                |                                               |                             |                         | STEM UNIT with Pilot Wire                     | Rubber Reinforced UNIVERSAL PATCHES (Round) | Rubber Reinforced UNIVERSAL PATCHES (Square) | MX RADIAL Patches | Fabric Reinforced UNIVERSAL PATCHES | Bias Ply Patches |
| PASSENGER                                 | 1/8" (3mm)  |             | KX-CC-3        | KX-386                                        | -                           | -                       | -                                             | -                                           | -                                            | -                 | -                                   | -                |
|                                           | 1/4" (6mm)  |             | KX-CC-6        | KX-387                                        | KX-381                      | KX-375                  | KX-378                                        | KX-UP-45                                    | KX-4102                                      | KX-MX10           | KX-5101                             | NA               |
| LIGHT TRUCK                               | 1/4" (6mm)  |             | KX-CC-6        | KX-387                                        | KX-381                      | KX-375                  | KX-378                                        | KX-UP-55                                    | KX-4102                                      | KX-MX12           | KX-5102                             | KX-470           |
| HEAVY DUTY TRUCK                          | 1/4" (6mm)  |             | KX-CC-6        | KX-387                                        | KX-381                      | KX-375                  | KX-378                                        | NA                                          | NA                                           | KX-MX14           | KX-5102                             | KX-470           |
|                                           | 3/8" (10mm) |             | CC-10          | KX-388                                        | KX-382                      | KX-376                  | KX-379                                        | NA                                          | NA                                           | KX-MX20           | KX-5103                             | KX-471           |



**WARNING: TIRES MUST ALWAYS BE PROPERLY REPAIRED AS DESCRIBED IN THIS CHART.** Improperly repaired tires can fail while in service, such as by tread-belt separation and/or detachment, which may result in an accident causing serious personal injury or death.

**ONLY PROPERLY TRAINED TIRE REPAIR TECHNICIANS SHOULD PERFORM THESE REPAIRS**

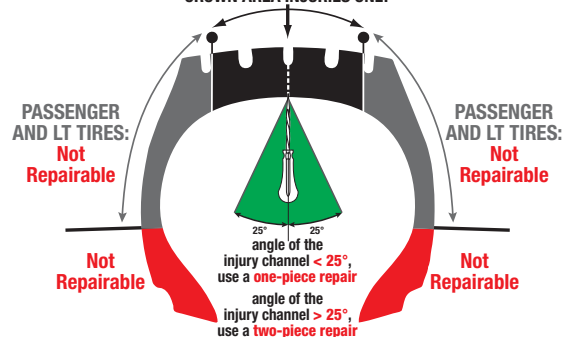
### MAXIMUM ALLOWABLE INJURY SIZE:

Passenger & Light Truck Tires maximum injury size  $\nabla$  1/4" (6mm)  
Medium & Heavy Truck Tires maximum injury size  $\nabla$  3/8" (10mm)

*Any injury exceeding the Maximum Allowable Injury Size, as stated above, will require a section repair to be performed at a Full Service Repair Facility.*

### NAIL HOLE REPAIR LIMIT

CROWN AREA INJURIES ONLY

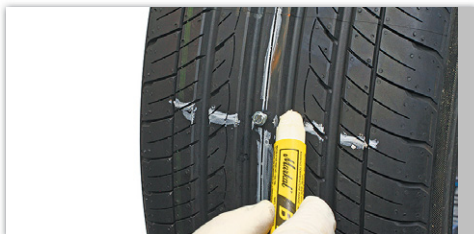




# NAIL HOLE REPAIR PROCEDURES for Passenger, Light Truck and Truck Tires

## STEP 1 INSPECT

### 1.1 INSPECT THE TIRE ON THE OUTSIDE



Check tire surface and the valve for the source of the leak(s) by using a leak detector. Mark the injury with a tire crayon.

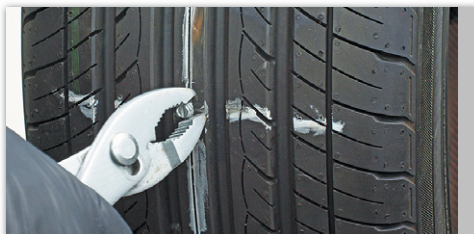
### 1.2 DEFLATE THE TIRE AND REMOVE FROM THE WHEEL

Deflate the tire before demounting, by safely removing the valve core. Safely remove the tire from the rim with the proper tire demounting tools and safety procedures, avoiding damage to the bead area.

### 1.3 PLACE ON TIRE SPREADER

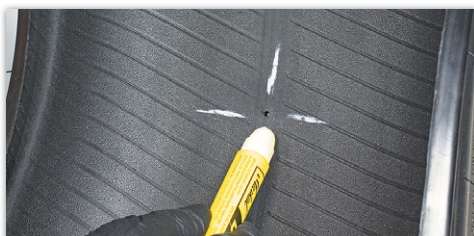
Place tire on a well lighted tire spreader and spread the beads. Never invert radial tires – and avoid excessive spreading of the tire or tire beads.

### 1.4 LOCATE AND REMOVE THE PENETRATING OBJECT



Locate and remove the penetrating object from the tire, noting the direction of penetration.

### 1.5 MARK THE INJURY ON THE INSIDE



Identify the injury on the inside of the tire and mark the area with a tire crayon.

### 1.6 INSPECT THE INJURY



Inspect the injury with an awl, probing the injury to determine the extent of the damage and determine the inclination angle of the injury channel.

Dipping the awl into KX-511F Super Fast Drying Cement before probing the injury channel serves as a lubricant, allowing easier insertion of the awl to inspect the injury.

Inspect the tire for any other damage. (See "IMPORTANT!" and "NON-REPAIRABLE TIRE CONDITIONS" section above).

### 1.7 REPAIR UNIT SELECTION

If the angle of the injury channel is greater than 25 degrees, a two-piece repair system must be used.

If the angle of the injury channel is less than 25 degrees, a one-piece repair system should be used.

Determine the injury size and refer to the NAIL HOLE REPAIR CHART above to select the appropriate repair unit.

The selection of the proper repair unit is dependent on several factors including injury size and angle, type of tire construction (radial or bias) and size of the tire to be repaired.

#### PASSENGER AND LIGHT TRUCK TIRES

For passenger and light truck tires, the maximum injury size that can be repaired is 1/4 inch (6mm) in diameter. Injuries should be in the crown area only. Shoulder and sidewall repairs in passenger tires are not recommended by the tire industry. Injuries exceeding 1/4 inch must be referred to an authorized full service repair facility.

#### TRUCK TIRES

For truck tires, the maximum injury size that can be repaired is 3/8 inch (10mm) in diameter. Injuries should be in the crown area only. Injuries exceeding 3/8 inch or any injury in the shoulder, or sidewall must be referred to an authorized full service repair facility.

**Check the warnings above (in the section marked "IMPORTANT!") for repairability of the tire.**

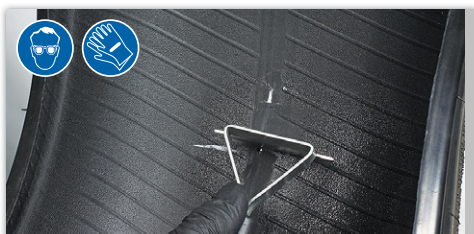
## STEP 2 PRE-CLEAN

### 2.1 APPLY PRE-BUFF CLEANER



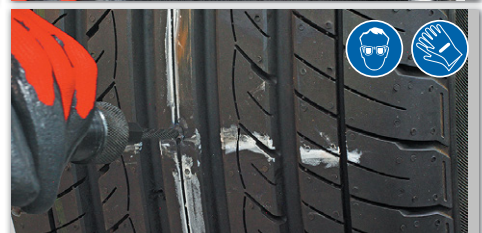
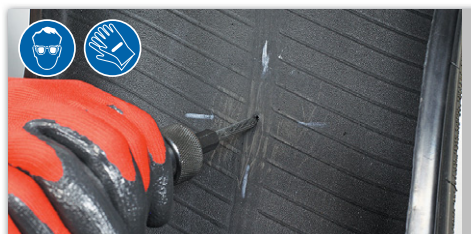
Apply KX-491F Buffing Solution around the injury area. Using an innerliner scraper, scrape the area to be buffed removing the contaminants such as dirt, tire lubes, and mold release lubricants. The area cleaned should be slightly larger than the selected repair unit. Scrape the innerliner while the Buffing Solution is still wet. Repeat 2-3 times until the surface is clean.

### 2.2 SCRAPE AWAY CONTAMINANTS



## STEP 3 DRILL

### 3.1 DRILL THE INJURY CHANNEL

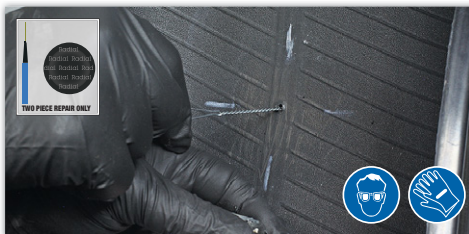


Determine the correct size Carbide Cutter from the NAIL HOLE REPAIR CHART above. Use a low speed tool (not to exceed 1200 rpm) to drill the injury from the inside out two or three times first and then from the outside in once or twice. Use full strokes with the carbide cutter, completely removing the cutter from the tire with each stroke.

## STEP 4 FILL THE INJURY CHANNEL



### 4.1 CEMENT THE INJURY CHANNEL



#### TWO PIECE REPAIR ONLY

Apply KX-511F Super Fast Drying Cement to the injury channel using a #626 pull-wire or a #190 awl.

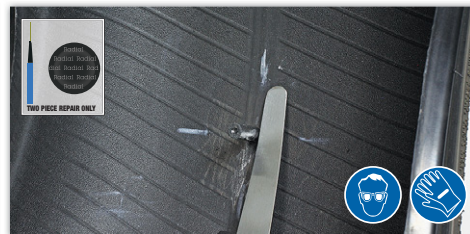
### 4.2 INSERT THE STEM



#### TWO PIECE REPAIR ONLY

Fully coat the KEX Stem Unit with cement and guide the pilot wire of the KEX Stem Unit through the injury channel. Pull Stem Unit from the outside of the tire until there is approximately 1/4" (6 mm) of the stem remaining on the inside of the tire.

### 4.3 CUT THE STEM

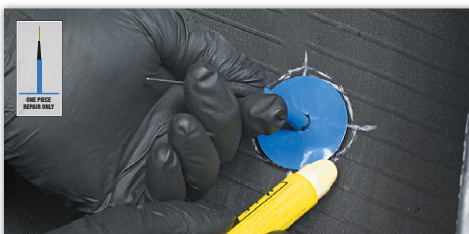


#### TWO PIECE REPAIR ONLY

Cut the stem off leaving approximately 1/8" (3 mm) remaining on the inside of the tire. The remainder of the stem will be removed during the buffing process to provide a smooth surface.

## STEP 5 BUFF

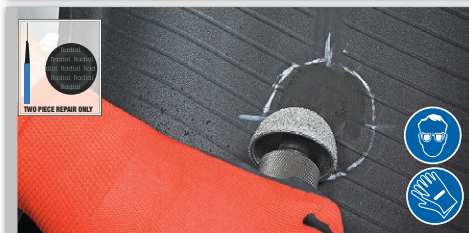
### 5.1 MARK AROUND THE REPAIR UNIT



Center the repair unit over the injury and outline an area larger than the unit, so buffing will not remove the crayon marks.

If the repair unit has bead arrows, make sure the arrows are pointing to the bead.

### 5.2 BUFF THE REPAIR AREA



Lightly buff the repair area using a low speed (< 5,000 RPM) air or electric buffing tool with a clean buffing rasp, 36 to 60 grit (230-170 SSG) and remove all vent lines until you get a completely smooth surface. Continue lightly buffing the repair area to a smooth velvety finish (Buff Texture 1 or 2) by putting slight pressure on the buffing tool and keeping it in constant movement.

**NOTE:** If during the buffing procedure the Radial Plies (or Body Plies) are damaged or exposed, the tire should be replaced.

## PRODUCTS USED

#### REPAIR UNITS:

Listed in the NAIL HOLE REPAIR CHART (see left)

#### CHEMICALS:

Buffing Solution..... KX-490F, KX-491F

Super Fast Drying Cement ..... KX-511F

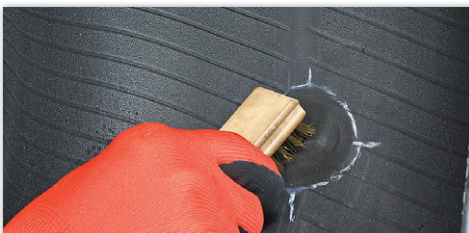
Liner Sealer..... KX-508F

#### ACCESSORIES:

|                                |                                     |
|--------------------------------|-------------------------------------|
| Low Speed Air Buffer (RTT-SSB) | Ball Bearing Stitcher (30, 6005E)   |
| Air Vacuum w/Bag (795)         | Brass Bristle Cleaning Brush (6014) |
| Carbide Cutter, 1/8" (CC-3)    | Innerliner Scraper (932)            |
| Carbide Cutter, 3/16" (CC-4.5) | Marking Crayon (62W, 62Y)           |
| Carbide Cutter, 1/4" (CC-6)    | Skiving Knife (929)                 |
| Carbide Cutter, 5/16" (CC-8)   | Pair of Pliers                      |
| Carbide Cutter, 3/8" (CC-10)   | Rep Boy Tire Spreader (3050-RB)     |
| Buffing Rasp, 2" (TCW-210-80)  | GREASE BULLY Nitrile gloves         |
| QR Adapter (6068-125: CC-3)    | StrongHold Gloves                   |
| QR Adapter (6068: CC-6)        | Safety Glasses                      |
| QR Arbor (6067)                | A good light source                 |
| Awl/Injury Probe (190)         |                                     |

## STEP 6 POST-CLEAN

### 6.1 BRUSH



Clean the buffed area with a 6014 Brass Brush by brushing the area several times in one direction. Avoid brushing the non-buffed areas where there are contaminants that could be pulled onto the freshly buffed area. Use a brush that is designated only for tire repair and not used for anything else. This will help avoid contaminants in the buffed area.

### 6.2 VACUUM



Use a vacuum to remove all debris from the inside of the tire. Do not touch the buffed area with the tip of the vacuum cleaner to avoid contamination. Always remove buffing dust with the use of a brass brush and vacuum. Never use compressed air. Do not use a Buffing Solution on the buffed texture after you have buffed to avoid leaving residues which reduce adhesion.

# STEP 7 INSTALL

## 7.1 CEMENT THE INJURY CHANNEL



### ONE PIECE REPAIR ONLY

Apply KX-511F Super Fast Drying Cement to the injury channel using a #626 pull-wire or a #190 awl. Super Fast Drying Cement provides the necessary lubrication for the insertion of the repair unit, and bonds it reliably to the tire.

## 7.2 CEMENT THE BUFFED AREA



Apply a thin, even coat of KX-511F Super Fast Drying Cement to the buffed area of the tire innerliner using a clean brush.

Use a swirling motion to apply the cement, as this will aid in the drying process as well as assure a thin, even coat. Completely cover the buffed area with cement to assure a good bond between the tire and the Repair Unit. Continue brushing and working the cement into the buffed area until the cement appears dry. Do not go outside the buffed area (Contaminates the brush).

Rotate the tire so that the cemented area is located between the 10 o'clock and 2 o'clock position. This will allow the solvent vapors, which are heavier than air, to "fall" away from the cemented innerliner.

Check the cement for dryness by touching the edge of the cemented area with the back of your finger. If the cement feels tacky, then it is dry. If it is not tacky, allow more drying time. Drying time depends on atmospheric conditions like heat and humidity. Hot temperature and high humidity require longer drying time of the cement. If the cement is not completely dry, the repair unit will lift off or blister and cause repair failure. Never use compressed air, hair dryers, heat guns, etc to aid in the drying of the cement.

Avoid any contamination on the bonding layer or the coat applied.

## 7.3 RELAX THE TIRE BEADS

Relax the beads of the tire from the spreader. During the repair unit application the tire beads must be in a relaxed position.

## 7.4 INSTALL THE MINICOMBI REPAIR UNIT



### ONE PIECE REPAIR ONLY

When installing a KEX Combi-Unit with Pilot Wire repair unit, insert the guide pin and stem through the cemented injury channel, from the inside outwards. Using a pair of pliers pull the guide pin from the outside until it is through the tire and you can see the rubber part of the Combi-Unit. Re-grasp on the rubber portion of the stem and continue pulling the stem until the Combi-Unit base, on the inside of the tire, is flush with the tire and slightly dimples.

The guide pin is only used to get the Combi-Unit through the tire. Once it is through the tire, re-grasp on the rubber portion of the Combi-Unit. If you pull on the guide pin only, it will pull out of the Combi-Unit.

## 7.5 INSTALL THE REPAIR UNIT



### TWO PIECE REPAIR ONLY

Remove the poly or foil from the back of the repair unit. Without touching the bonding layer, center the repair unit over the injury and apply carefully pushing down on the repair unit with your thumb or fingers.

If using a directional repair unit, make sure to align the arrows in the correct direction.

If using a non-directional or Universal Repair Unit, it does not matter in which direction the repair unit is installed.

## 7.6 STITCH



After the repair unit is applied, stitch thoroughly from the center outwards. Always start stitching from the center outward to remove any trapped air that may be under the repair unit. Continue several times in different directions over the whole surface of the repair unit to make sure that it is completely stitched to the innerliner and that it adheres securely to the buffed surface area.

Remove the cellophane from the repair unit.

## STEP 8 FINISH

### 8.1 APPLY LINER SEALER



Check the repair area for defects. The finished repair should show no peeling or lifting at the edges, and should neatly cover the repair area.

Apply a generous application of KX-508F Liner Sealer to the entire over-buffed area and the edge of the repair unit. If a Combi-Unit has been used, apply the Liner Sealer to the base of the Combi-Unit and any still exposed buffed areas.

### 8.2 RE-MOUNT & INFLATE

Safely mount the tire on the rim and inflate to the recommended tire pressure.

### 8.3 CUT THE STEM & BUFF



Cut the excess stem off or buff flush with the tread of the tire. DO NOT PULL ON THE STEM WHEN CUTTING IT OFF.

### 8.4 CHECK FOR LEAKS

Check both beads, the repair and the valve with a leak detector. If the tire continues to leak, it must be dismounted and re-inspected for other damage, and repaired correctly. If the damage is beyond repair limits, the tire should be scrapped.

### 8.5 BALANCE THE TIRE

Balance the tire. After the final inspection is done, the tire can immediately be put back into operation. The vulcanization between the repair unit and the tire is automatically completed under normal running conditions.

This repair guide complies with industry standards for chemical repair methods as determined by the tire industry, and include the recommendations of TIA and TRMG. This NAIL HOLE REPAIR PROCEDURES Repair Guide is meant for educational purposes only and is not meant to substitute for proper tire repair training.

## IMPORTANT!

### WARNING!

**ALWAYS** demount the tire from the wheel and complete a **thorough tire and wheel inspection** prior to returning the components to service.

### PRECAUTIONS

- Repair products and materials used should be from the **same manufacturer** to ensure compatibility in the curing process. **NEVER mix products** from different repair material manufacturers.
- Repairs are limited to the **crown area only**. DO NOT repair sidewall or shoulder injuries.
- Regardless of the type of repair used, the **repair must fill the injury and seal the innerliner**. This is achieved with either a two piece repair (stem and patch) or a one piece repair (patch/stem combination repair unit).
- NEVER use only a rubber stem or plug; or NEVER USE only a patch**. Both materials must be used for a proper tire repair.
- Specific repair limits should be based on recommendations or repair policy of the tire manufacturer and/or the type of tire service.
- Some "run-flat technology" tires cannot be repaired. Consult tire manufacturer for their repair policy and, if applicable, for their recommended repair procedures.
- Speed Ratings – Tire Manufacturer should be consulted for its individual repair policy.
- Never use any rim that is bent, corroded, cracked or worn.
- For speed rated tires, the tire manufacturer must be contacted for its individual repair policy – some manufacturers will void the tire speed rating if the tire has been repaired. Check whether the speed rating is retained after repair.

### GENERAL SAFETY INSTRUCTIONS

- Always read the operating and application instructions enclosed with the corresponding products, tools and machines and **follow the Safety, Handling and Disposal guidelines**.
- Always observe the safety instructions and symbols on the product packaging and refer to the manufacturer's **Safety Data Sheet (SDS)**.
- When working with solutions, rotary tools, sharp-edged tools, hot devices and hot materials, always take the necessary precautions and **wear appropriate gloves, adequate eye protection (safety glasses or face shields), ear protection and observe maximum RPM** while repairing tires.
- Always keep dangerous tools, solutions etc. out of the reach of children and unauthorized persons.

### DO NOT REPAIR A TIRE WITH:

#### DO NOT REPAIR A TIRE WITH THESE TIRE INJURIES:

- Greater than 1/4-inch (6mm) in diameter for passenger and LT, 3/8-inch (10mm) for medium truck
- In the shoulder or sidewall areas
- In a position that would overlap an existing repair

#### DO NOT REPAIR A TIRE WITH THESE TIRE CONDITIONS:

- Any conditions shown in the Non-Repairable Tire Conditions box
- 2/32-inch (3mm) or less remaining in tread depth
- Bead rubber torn down to steel
- Run flat conditions
- Broken or kinked beads
- Loose or broken radial body cables on inside shoulder
- Weather checking beyond 2/32-inch (3mm) deep
- Soft, mushy rubber on inside shoulder
- Broken or separated belts or tire with exposed fabric
- Liner separations too large for repair

#### DO NOT REPAIR A TIRE WITH THESE PREVIOUS REPAIRS:

- An existing improper repair
- Repairs that are outside of the repairable areas
- Where 3 previous repairs already exist
- An existing Non-Industry Standard Repair such as an "On the Wheel Repair / Outside In"
- Repair where a "Tire Sealant" has been used.

These Repair Charts reflect International Repair Standards, determined on the basis of practical experience, bench checks, and laboratory tests. THEY NEITHER INCORPORATE NOR ARE INTENDED AS A REFERENCE TO LOCAL, STATE, OR NATIONAL STANDARDS THAT MAY EXIST IN YOUR COMMUNITY. Stay within the limitation for repairable injuries indicated by the charts. When repairing a tire, it is imperative that a complete inspection be conducted to ensure that the tire is fit to be repaired and safely returned to service. Always follow proper repair procedures as illustrated in the appropriate KEX Tire Repair Manual(s). No tire can be safely repaired without demounting it from the rim, giving it a complete inspection, and properly repairing the injury with the appropriate inside repair unit and filler material. Always consult the tire manufacturer for the repair limits.



**QUALITY, VALUE, SERVICE**  
***Backed by REMA TIP TOP***



## **KEX Tire Repair - Product Line Card**

### **✓ Tire Repair Materials**

- Plug Stem Repair
- Radial Tire Repair Units
- Bias Repair Units
- Universal Repair Units

### **✓ Tube Repair Materials**

### **✓ Cements and Chemicals**

- Vulcanizing Cements
- Pre-Buff Cleaners
- Repair Sealants
- Tire Talcs
- Specialty Chemical Products

### **✓ Temporary Repair Products**

- Emergency Repairs
- Inserting Tools
- Temporary Repair Kits

### **✓ Tire Service Cabinets and Kits**

### **✓ Shop Supplies**

- Tire Repair Hand Tools
- Markers and Crayons
- Cutting Tools
- Gloves
- Buffing Tools

### **✓ Tire Mounting Lubricants and Accessories**

### **✓ Tire Changing Tools and Accessories**

### **✓ Tire and Wheel Handling Equipment**

### **✓ Jacks and Accessories**

### **✓ Air Products**

- Air Chucks & Air Vacuum
- Air Hoses
- Pressure Gauges and Accessories

### **✓ Tire Valves and Accessories**

- Passenger Valves
- Truck Valves
- Valve Extensions, Valve Cores, Valve Caps
- Valve Service Tools
- Valve Extensions
- Valve Cores
- Valve Caps



kextirerepair.com



KEX Tire Repair  
Wall Chart



KEX Tire Repair  
Tutorial Videos



***Ask us about KEX products and technician training***



### **KEX Tire Repair**

300 Tice Boulevard, Suite 250  
Woodcliff Lake, NJ 07677



**(888) 395-1KEX (1539)**