

Cross Reference Chart

This chart does not imply complete interchangeability.

| pre- 1964 | '65 to '72 | 80 series metric | Alpha Numeric 78series | P-Metric 75 series Radial | P-Metric 70 series Radial |
|-----------|------------|------------------|------------------------|---------------------------|---------------------------|
| 590-13 | 600-13 | 165-13 | A78-13 | P165/75R13 | P175/70R13 |
| 640-13 | 650-13 | 175-13 | B78-13 | P175/75R13 | P185/70R13 |
| 725-13 | 700-13 | 185-13 | D78-13 | P185/75R13 | P205/70R13 |
| 590-14 | 645-14 | 155-14 | B78-14 | P175/75R14 | P185/70R14 |
| 650-14 | 695-14 | 175-14 | C78-14 | P185/75R14 | P195/70R14 |
| 700-14 | 735-14 | 185-14 | E78-14 | P195/75R14 | P205/70R14 |
| 750-14 | 775-14 | 195-14 | F78-14 | P205/75R14 | P215/70R14 |
| 800-14 | 825-14 | 205-14 | G78-14 | P215/75R14 | P225/70R14 |
| 850-14 | 855-14 | 215-14 | H78-14 | P225/75R14 | P235/70R14 |
| 590-15 | 600-15 | 165-15 | A78-15 | P165/75R15 | P175/70R15 |
| 650-15 | 685-15 | 175-15 | C78-15 | P175/75R15 | P185/70R15 |
| 640-15 | 735-15 | 185-15 | E78-15 | P195/75R15 | P205/70R15 |
| 670-15 | 775-15 | 195-15 | F78-15 | P205/75R15 | P215/70R15 |
| 710-15 | 825-15 | 205-15 | G78-15 | P215/75R15 | P225/70R15 |
| 760-15 | 855-15 | 215-15 | H78-15 | P225/75R15 | P235/70R15 |
| 800-15 | 885-15 | 230-15 | J78-15 | P225/75R15 | P235/70R15 |
| 820-15 | 900-15 | 235-15 | L78-15 | P235/75R15 | P255/70R15 |

Provided by Ken Cates Hudson Sep 2010

| Description | Tread width | Overall diameter | Rev / mile | Rim Width |
|-------------|-------------|------------------|------------|-----------|
| 135-75R15 | 3.5 | 23.0 | 878 | |
| 145-75R15 | 3.8 | 23.6 | 856 | |
| 155-75R15 | 4.0 | 24.2 | 835 | |
| 165-75R15 | 4.3 | 24.7 | 815 | |
| 185-75R15 | 4.8 | 25.9 | 778 | |
| 195-75R15 | 5.1 | 26.5 | 761 | |
| 205-75R15 | 5.3 | 27.1 | 744 | |
| 215-75R15 | 5.6 | 27.7 | 728 | |
| 225-75R15 | 5.9 | 28.3 | 713 | |
| 235-75R15 | 6.1 | 28.9 | 698 | |

78-series 15" Bias Ply Tires

| Description | Overall diameter | Rev / mile | Design Rim Width |
|-------------|------------------|------------|------------------|
| A78-15 | 24.8 | 813 | 4.5 |
| B78-15 | 25.4 | 795 | 4.5 |
| C78-15 | 25.8 | 781 | 5.0 |
| D78-15 | 26.2 | 769 | 5.0 |
| E78-15 | 26.6 | 757 | 5.0 |
| F78-15 | 27.2 | 741 | 5.5 |
| G78-15 | 27.7 | 729 | 5.5 |
| H78-15 | 28.4 | 711 | 6.0 |
| J78-15 | 28.7 | 702 | 6.0 |
| L78-15 | 29.3 | 688 | 6.0 |

Provided by Ken's Classic Hudson Streetown Restoration Web Site

Vintage Tire Size Conversion Chart

Use the following chart to figure out the closest modern tire size to your car's original tires. Keep in mind these are close approximations and may not be exact replacements. Before purchasing any tires you should compare outside diameters and the tread footprint to get a better idea on how close a match they are. Your local tire dealer should have this information. Variations in tire diameter will have an effect on speedometer accuracy while the tread footprint will have an aesthetic affect on the appearance of the car. The best way to ensure a 100% correct look for your antique car is to buy reproduction vintage tires in the originally recommended size.

| Pre-1964 | 1965-72 | 80 series metric | Alpha Numeric 78 series | P-Metric 75 series Radial | P-Metric 70 series Radial |
|----------|---------|------------------|-------------------------|---------------------------|---------------------------|
| 5.90-13 | 600-13 | 165-13 | A78-13 | P165/75R13 | P175/70R13 |
| 6.40-13 | 650-13 | 175-13 | B78-13 | P175/75R13 | P185/70R13 |
| 7.25-13 | 700-13 | 185-13 | D78-13 | P185/75R13 | P205/70R13 |
| 5.90-14 | 645-14 | 155-14 | B78-14 | P175/75R14 | P185/70R14 |
| 6.50-14 | 695-14 | 175-14 | C78-14 | P185/75R14 | P195/70R14 |
| 7.00-14 | 735-14 | 185-14 | E78-14 | P195/75R14 | P205/70R14 |
| 7.50-14 | 775-14 | 195-14 | F78-14 | P205/75R14 | P215/70R14 |
| 8.00-14 | 825-14 | 205-14 | G78-14 | P215/75R14 | P225/70R14 |
| 8.50-14 | 855-14 | 215-14 | H78-14 | P225/75R14 | P235/70R14 |
| 5.90-15 | 600-15 | 165-15 | A78-15 | P165/75R15 | P175/70R15 |
| 6.50-15 | 685-15 | 175-15 | C78-15 | P175/75R15 | P185/70R15 |
| 6.40-15 | 735-15 | 185-15 | E78-15 | P195/75R15 | P205/70R15 |
| 6.70-15 | 775-15 | 195-15 | F78-15 | P205/75R15 | P215/70R15 |
| 7.10-15 | 825-15 | 205-15 | G78-15 | P215/75R15 | P225/70R15 |
| 7.60-15 | 855-15 | 215-15 | H78-15 | P225/75R15 | P235/70R15 |
| 8.00-15 | 885-15 | 230-15 | J78-15 | P225/75R15 | P235/70R15 |
| 8.20-15 | 900-15 | 235-15 | L78-15 | P235/75R15 | P255/70R15 |

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Rim/Wheel Widths

Each tire has a specific rim width range on which the tire can be mounted. Failure to follow rim width recommendations may result in poor tire performance or possible wheel and/or tire failure.

Below is a quick reference chart listing each tire size and the acceptable rim widths for that size. (The chart does not show all sizes, but gives a good example) Choosing a wheel near the middle of the range will give a balance between ride quality and handling. A wider wheel will improve handling at the expense of ride quality, while a narrower wheel will improve ride quality at the expense of handling. Consider these compromises when selecting wheels.

Metric Rim Widths

| Aspect Ratio | Metric Size Designations | Approved Rim Width Ranges | Aspect Ratio | Metric Size Designations | Approved Rim Width Ranges |
|------------------|--------------------------|---------------------------|------------------|--------------------------|---------------------------|
| 35 Series | 275/35R17 | 9.0-10.5 | 60 Series | 185/60R13 | 5.0-6.5 |
| | 335/35R17 | 11.0-13.0 | | 205/60R13 | 5.5-7.5 |
| | 345/35R15 | 11.0-13.5 | | 185/60R14 | 5.0-6.5 |
| 40 Series | 285/40R15 | 11.0-13.5 | 195/60R14 | 5.5-7.0 | |
| | 215/40R15 | 7.0-8.5 | 205/60R14 | | |
| | 245/40R17 | 8.0-9.5 | 195/60R15 | 5.5-7.0 | |
| | 255/40R17 | 8.5-10.0 | 205/60R15 | 5.5-7.5 | |
| | 265/40R17 | 8.5-10.0 | 215/60R15 | 6.0-7.5 | |
| 45 Series | 235/40R18 | 8.0-9.5 | 225/60R15 | 6.0-8.0 | |
| | 195/40R15 | 6.5-7.5 | 235/60R15 | 6.5-8.5 | |
| | 215/45R15 | 7.0-8.5 | 65 Series | 185/65R15 | 5.0-6.5 |
| | 255/45R15 | 8.5-10.0 | | 195/65R15 | 5.5-7.0 |
| | 205/45R16 | 7.0 | | 205/65R15 | 5.5-7.5 |
| | 225/45R16 | 7.5-9.0 | 215/65R15 | 6.0-7.5 | |
| | 245/45R16 | 8.0-9.5 | 70 Series | 165/70R10 | 4.5-5.5 |
| 215/45R17 | 7.0-8.5 | 175/70R12 | | 5.0-6.0 | |
| 235/45R17 | 8.0-9.5 | 175/70R13 | | 5.0-6.0 | |
| 255/45R17 | 8.5-10.5 | 185/70R13 | | 5.0-6.5 | |
| 175/50R13 | 5.0-6.0 | 185/70R14 | | 5.0-6.5 | |
| 50 Series | 195/50R14 | 5.5-7.0 | 195/70R14 | 5.5-7.0 | |
| | 205/50R15 | 5.5-7.5 | 205/70R14 | 5.5-7.5 | |
| | 215/50R15 | 6.0-7.5 | 185/70R15 | 5.0-6.5 | |
| | 225/50R15 | 6.0-8.0 | 205/70R15 | 5.5-7.5 | |
| | 195/50R16 | 5.5-7.0 | 215/70R15 | 6.0-7.5 | |
| | 205/50R16 | 5.5-7.5 | 82 Series | 155R12 | 4.0-5.0 |
| | 225/50R16 | 6.0-8.0 | | 155R13 | 4.0-5.5 |
| | 235/50R16 | 6.5-8.5 | | | |
| | 215/50R17 | 6.5-7.5 | | | |
| | 55 Series | 205/55R14 | 5.5-7.5 | | |

| | | | | | |
|--|-----------|---------|--|-----------|---------|
| | 185/55R15 | 6.0-6.5 | | 165/70R13 | 4.0-5.5 |
| | 195/55R15 | 5.5-7.0 | | 175R14 | 4.5-6.0 |
| | 205/55R15 | 5.5-7.5 | | 185R14 | 4.5-6.0 |
| | 205/55R16 | 5.5-7.5 | | 165R15 | 4.0-5.5 |
| | 225/55R16 | 6.0-8.0 | | | |

P-Metric Rim Width

| Aspect Ratio | Metric Size Designations | Approved Rim Width Ranges | Aspect Ratio | Metric Size Designations | Approved Rim Width Ranges |
|------------------|--------------------------|---------------------------|------------------|--------------------------|---------------------------|
| 75 Series | P205/75R15 | 5.5-7.5 | 35 Series | P315/35R17 | 10.0-12.0 |
| | P215/75R15 | 5.5-7.5 | 40 Series | P275/40R17 | 8.5-10.0 |
| | P225/75R15 | 6.0-8.0 | 50 Series | P215/50R13 | 5.5-8.5 |
| | P235/75R15 | 6.0-8.0 | | P235/50R13 | 6.0-9.0 |
| 80 Series | P155/80R13 | 4.5-5.5 | | P245/50R14 | 6.5-9.0 |
| | P165/80R13 | 4.5-6.0 | | P225/50R15 | 6.0-8.0 |
| | P175/80R13 | 4.5-6.0 | | P295/50R15 | 7.5-11.0 |
| | P185/80R13 | 5.0-6.5 | | P225/50R16 | 6.0-8.0 |
| | | | | P245/50R16 | 6.5-9.5 |

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OLD TIRE DIMENSIONS

All Dimensions Are Approximate - Street Tire Sizes

| Size | Diameter | Cross Section | Size | Diameter | Cross Section |
|--------------|----------|---------------|------------|----------|---------------|
| 5.20-10 | 19.90 | 5.55 | 155HR15 | 24.80 | 6.10 |
| 5.50-12 | 21.90 | 5.50 | 175/70HR15 | 24.85 | 6.90 |
| 155HR13 | 22.80 | 6.50 | 180HR15 | 26.80 | 6.90 |
| 185HR13 | 25.00 | 7.10 | 185/70R15 | 25.71 | 7.30 |
| 5.20-13 | 22.80 | 5.65 | 400/425-15 | 23.00 | 4.70 |
| 5.60-13 | 23.70 | 5.90 | 5.00-15 | 24.40 | 4.75 |
| 5.90-13 | 24.10 | 6.60 | 5.60-15 | 25.90 | 4.38 |
| 6.00-13 | 23.70 | 6.20 | 5.90-15 | 25.40 | 5.90 |
| 6.40-13 | 25.10 | 6.60 | 6.40-15 | 26.90 | 6.25 |
| 6.50-13 | 24.70 | 6.70 | 6.70-15 | 27.40 | 7.00 |
| 7.00-13 | 25.70 | 7.10 | 7.00-15 | 29.20 | 7.35 |
| 7.25X13 | 25.70 | 7.10 | 7.10-15 | 28.00 | 7.40 |
| 6.70/7.25-13 | 25.70 | 7.40 | 7.75-15 | 27.40 | 7.70 |
| 7.50-13 | 25.80 | 7.60 | 7.60-15 | 28.70 | 7.90 |
| D70-14 | 25.32 | 7.85 | 8.00-15 | 29.08 | 8.30 |
| E70-14 | 25.76 | 8.05 | 8.15-15 | 28.66 | 7.90 |
| F70-14 | 26.24 | 8.30 | 8.20-15 | 29.60 | 8.50 |
| G70-14 | 26.82 | 8.75 | 890-15 | 31.00 | 9.30 |
| 205VR14 | 26.80 | 8.10 | 185X16 | 27.90 | 7.10 |
| 5.20-14 | 24.20 | 5.40 | 475/500-16 | 24.13 | 3.94 |
| 5.90-14 | 25.30 | 6.10 | 500/525-16 | 26.80 | 5.00 |
| 6.95-14 | 25.90 | 7.00 | 5.50-16 | 26.90 | 5.25 |
| 7.00-14 | 26.50 | 7.00 | 6.00-16 | 26.36 | 6.25 |
| 7.50-14 | 27.30 | 7.40 | 6.50-16 | 29.30 | 6.80 |
| 7.75-14 | 26.70 | 7.75 | 7.50-16 | 31.45 | 8.20 |
| 8.00-14 | 27.60 | 8.10 | 8.25-16 | 32.45 | 8.80 |
| 8.25-14 | 25.80 | 8.05 | 4.50-17 | 25.35 | 4.70 |
| 8.50-14 | 28.10 | 8.35 | 5.50-17 | 28.13 | 5.25 |
| 9.00-14 | 28.70 | 8.80 | 7.00-17 | 31.12 | 7.38 |
| F70-15 | 26.94 | 8.35 | 7.50-17 | 31.75 | 8.00 |
| F60-15 | 25.94 | 9.20 | | | |

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