Since 1993, "A ‘Weigh We Go,” a project of the Recreational Vehicle Safety Education Foundation (RVSEF), has weighed over 27,000 motor homes and trailers in conjunction with RV events. The results are not pretty. Of the RVs checked by RVSEF, nearly a third had loads that exceeded the capacity of the tires on the vehicles.

Most of the weight was on the rear. Twenty-two percent of all rear tires were overloaded. And weight distribution was so poor that about 28 percent of all motor homes were out of balance by 400 pounds or more from one axle end to the other.

In a separate survey conducted by Bridgestone/Firestone, 4 out of 5 RVs had at least one underinflated tire, a third of which were dangerously underinflated, and at risk of failure.

An underinflated tire cannot carry the load of a properly inflated tire. When a tire is underinflated, the extra weight causes greater heat build-up in the tire, which can lead to tire failure.

According to RVSEF, 33% of RVs had overloaded tires.

Neglect makes matters worse

Even a tire that’s in perfectly good condition, properly mounted and correctly inflated can lose between 1 and 2 lbs. of inflation pressure (psi) per month, depending on tire size. (This is normal. See the story on page 9.)

In just six months, inflation pressure loss could be as much as 12 psi, a potentially very serious situation that could cause a sudden tire failure that could lead to accidents or death.

Often, these dangerously under-inflated tires were the inner tires of dual pairs, tires that are difficult to see and difficult to service.

For your safety and that of your passengers, never exceed your vehicle’s safe load capacity, and always make sure your vehicle’s load is properly distributed.
It is essential to weigh each axle end of your vehicle to determine whether it is overloaded, and whether the load is correctly distributed, front to back and side to side.

How does overloading happen?

Too Much Stuff
Many vehicles, including RVs, minibuses, trailers and ambulances end up overloaded simply because people put too many things into them. There is no easy way to determine the weight you’ve loaded, so there’s a temptation to keep loading until every available space is filled. People are loading by volume, but weight is far more important.

Unfortunately, you may have exceeded the load-carrying capacity of the tires or axles long before everything is on board. The only way to tell if a vehicle is overloaded is to have it weighed. (See below for more information.)

Load Out of Balance
And it’s also possible to be within the vehicle’s Gross Vehicle Weight Rating (see page 4 for definitions of terms), yet still have overloaded axle ends or tires.

That comes about, of course, if the load is not properly distributed. A gain, balance is something very difficult to determine when you’re loading the vehicle. You could be out of balance from front to rear or from side to side.

If uneven loading is serious enough, you could be within an axle or tire’s carrying capacity on one end of an axle, and over capacity on the other.

Unfortunately, this is even harder to discover, because some types of load-leveling systems compensate for out-of-balance loading, making it harder to see. A gain, properly weighing the vehicle is the only way to be sure.

How? ALL ABOARD!
The most critical point about weighing a vehicle is that it must be weighed with everything on board that will be there while you’re traveling.

That means you must weigh the vehicle with passengers, supplies, food, water, fuel, oil, towed items, bicycles, clothing, propane, etc. Bear in mind that water, fuel and propane can easily exceed 750 lbs. You must know the actual load on the axles and wheels, and there’s no other way to do it.

AXLE END BY AXLE END
In addition to knowing the total weight on the ground, it is crucial to know the weight on each end of each axle. That’s the only way you can find out if the load is both within the capacity of the axles, wheels and tires, as well as whether or not the load is properly distributed.

Under-Spec’d AXLES or TIRES
Increasing capacity by changing axles is probably too expensive and impractical for most RV owners.

With tires, you may have some flexibility. Tires are available in a variety of load ratings and sizes, and if the tires you currently have cannot handle the load, it may be possible to replace your tires with tires of higher capacity. Consult the vehicle manufacturer before making any change to your tires.

Bear in mind, though, that the ultimate capacity of the vehicle is determined by the weakest link in the system. If axles are at or near the limit of their capacity, there’s no point putting on tires that can handle higher loads.
Look for scales at moving and storage companies, farm suppliers, gravel pits, recycling companies or truckstops.

You must not exceed the total Gross Vehicle Weight Rating (GVWR) for your vehicle, RV or travel trailer, AND you must not exceed the Gross Axle Weight Rating (GAWR) of each of your axles, nor the maximum load for your tires.

If your weight is higher than the GVWR, you’ll have to reduce the load by removing some things.

If you have not exceeded the GVWR, but have exceeded the maximum permissible load on the axles or tires, you may be able to redistribute weight to bring all loads back to permissible levels.

Remember, running overloaded is both dangerous and illegal, besides putting excessive - and expensive - wear and tear on most vehicle components.

Where?
FINDING SCALES
You should be able to find certified scales by looking in your Yellow Pages for moving and storage companies, farm suppliers, gravel pits, recycling companies or commercial truck stops.

Be sure to call in advance to determine whether the facility offers public weighing services, their hours of operation and any fees that might be involved.

You can get this free brochure “How to Weigh Your Travel Trailer or RV,” providing detailed instructions on weighing your RV or travel trailer, online, from many tire dealers, and by calling 1-800-847-3272.

What to do if your weights aren’t right

Once you’re there
Because weighing your vehicle is a complicated job, we’ve published a separate booklet, “How to Weigh your Travel Trailer or RV,” that you can use as a workbook for weighing and recording your results.

You can download a copy of the booklet from our website, www.trucktires.com. Copies are also available free of charge at Firestone MasterCare Tire Centers, and from many other authorized tire dealers nationwide. You can also obtain a copy by calling us, at 1-800-847-3272 or by e-mail to contact@trucktires.com, and asking for the free publication: How to Weigh Your Vehicle.
A Federal Dataplate is required by law on all vehicles. It lists the Gross Vehicle Weight Rating (GVWR), the maximum weight at which the vehicle may be operated. Note that this weight rating may be legally exceeded only when the vehicle is parked.

The Federal Dataplate also provides a Gross Axle Weight Rating (GAWR), the maximum weight that should ever be on a given axle. Because this rating is based on the actual characteristics of the vehicle components, you should never exceed this rating, even when the vehicle is parked.

The GAWR, divided by two, is the maximum axle rating for each end of the axle. You must not exceed this weight on either end of the axle, even if the total does not exceed the GAWR.

There are two versions of the RVIA label, depending on whether the vehicle was manufactured from September 1996 through August 2000, or after September 1, 2000. There are also separate versions of the label for motor homes and for trailers, including “fifth wheel” trailers.

**COMMON TERMS**

**GCWR**
Gross Combined Weight Rating
The maximum allowable total loaded weight rating of the RV and any vehicle it is towing. GCWR minus GVWR (see next definition) represents the allowable weight for the towed vehicle.

**GVWR**
Gross Vehicle Weight Rating
The weight rating established by the chassis manufacturer as the maximum weight (including vehicle, cargo, liquids, passengers, etc.) the components of the chassis can support.

**Tongue Weight**
The downward weight exerted at the hitch or 5th wheel connection by a fully loaded towed vehicle.

**GVW**
Gross Vehicle Weight
The actual weight of a fully loaded vehicle (including vehicle, cargo, liquids/fuels, passengers, etc.). The GVW must not exceed the GVWR.

**GAWR**
Gross Axle Weight Rating (for each axle)
The maximum weight rating that the components (tires, rims/wheels, brakes, springs, axle) of each axle are designed to support.
What is the capacity of your tires & wheels?

Tire Load Rating
Just like axles, tires and wheels have load ratings. The maximum ratings are molded into the side of the tires, and sometimes stamped on the inside of wheels.

Bear in mind that these are maximum ratings. The sidewall of the tire shows maximum load and minimum inflation pressure for that load.

If you use passenger tires (no “LT” in their size designation) on multipurpose passenger vehicles, trucks, buses or trailers, you must reduce the load rating of these tires by 10 percent.

Wheel Load & Inflation Ratings
Be sure you also know the load and inflation pressure ratings for your wheels as well. Often, these are stamped on the inside of the wheels, but if not, your dealer can help you find out what they are. Never exceed the maximum load or inflation pressure rating of your wheels.

What inflation pressure to use
Never set tire inflation pressures BELOW the recommendations you find on the vehicle manufacturer’s placard.

Also, you must not exceed the maximum inflation pressure ratings shown on tire sidewalls. Overinflated tires are more likely to be cut, punctured or broken by sudden impact if they hit an obstacle, like a pothole, at high speed. Correct inflation pressure can help minimize that kind of damage.

The maximum inflation pressure (displayed on the tire’s sidewall) is also the minimum required to carry the maximum load.

Inflation pressures that are too high for the load can make tires more susceptible to impact breaks if they encounter obstacles at high speeds.

Wheels are often (but not always) stamped with the maximum loads and inflation pressures that may be used with them. See your dealer for ratings if your wheels are not marked.

UVW
Unloaded Vehicle Weight
The weight of the vehicle as built at the factory with full fuel, engine oil and coolants, but without cargo, fresh water, LP gas, occupants or dealer-installed accessories.

NCC
Net Carrying Capacity
The maximum weight of all occupants including the driver, plus personal belongings, food, fresh water, LP gas, tools, tongue weight of any towed vehicle, dealer-installed accessories, etc. that can be carried. (NCC is equal to or less than GVWR minus UVW.)

SCWR
Sleeping Capacity Weight Rating
The manufacturer’s designated number of sleeping positions multiplied by 154 pounds (70 kilograms) for each. Note: If your passengers weigh more than 154 pounds each, the number of passengers may have to be reduced to avoid exceeding SCWR.

CCC
Cargo Carrying Capacity
The GVWR minus all of the following: UVW, full fresh (drinking) water weight (including heater), full LP gas weight, SCWR, tongue weight of any towed vehicle and weight of any dealer-installed accessories.
Speed Rating

Many tires have speed ratings. You’ll find this information on the tire sidewall. The speed rating indicates the maximum speed at which the tire can be operated at the correct load and inflation pressure. Never operate your vehicle at speeds that exceed the maximum speed for the lowest-rated tire on the vehicle.

1. Do not exceed maximum speeds allowed by law.
2. Always reduce your speed appropriately for traffic, weather, vehicle or road conditions.
3. Never exceed the maximum speed of “speed-rated” tires.
4. With “LT” (Light Truck) tires do not exceed legal speed limits. (If you use LT tires at speeds between 66 and 75 mph, increase cold inflation pressures by 10 psi above the recommended pressure for the load but do not exceed the maximum inflation pressure for wheel or tire.)
5. If you use medium commercial truck tires, do not exceed the “maximum sustained speed” rating for these tires as found in the manufacturer’s databook.

Remember, in all cases, the lowest speed-rated tire determines the maximum speed for the entire vehicle combination, including any towing vehicle.

Care ON THE ROAD

When you’re traveling, do as professional commercial drivers do: inspect your tires regularly and check and adjust cold inflation pressure every day that you actually travel. (See page 12 for details on how to measure and adjust inflation pressure properly.)

If you need to “block” tires to level the vehicle, be sure that the block is larger than the “footprint” of the tire. No part of the tire should ever “hang over” the edge of the block. This can cause internal damage to the tire.

Care AT HOME

For best tire performance and life, the best thing you can do when you get home is to take the load off your tires by putting the vehicle up on blocks.

Cover the tires with opaque material to keep sunlight away. Ozone in the air can deteriorate tires, especially sidewalls, and UV radiation from the sun can accelerate this effect.

If you remove the tires from the vehicle, store them in a cool, dry, dark place, away from grease, oil and fuel, and well away from electrical equipment (like motors or generators) that produce ozone.

Keep your stored tires inflated to a minimum pressure of 10-15 psi, and arranged side-by-side, like a row of donuts. Avoid letting tires sit on asphalt for long periods of time because they can absorb damaging oils from it.

CLEANING tires

Generally, you do no damage to your tires by leaving them dirty.

Sidewall rubber contains antioxidants and antiozonants that are designed to gradually work their way to the surface of the rubber to protect it.

Washing tires excessively removes these protective compounds, and can cause tires to age prematurely.

The same thing is true of most tire “dressings,” designed to make tires look shiny. Most of these preparations remove protective compounds, again causing tires to age abnormally.

Occasional washing with soap and water is OK, but anything beyond that can actually shorten the life of your tires.

Washing tires too often can remove protective compounds and result in premature aging. Avoid harsh cleaning agents, steam cleaning and tire dressings.
Every tire sold in the U.S. is required to have a DOT (Department of Transportation) identifying number. This is a 10- or 11-digit number that contains lots of information about the tire manufacturer, size, plant where it was made, etc.

The last 3 or 4 digits are of most interest to you, because they can tell you how old your tires are.

DOT numbers appear only on one sidewall of your tire. Older tires have 3-digit numbers, with the first two digits signifying the week of the year and the third digit the year when the tire was made. Tires made in the 1990s may also have a triangle alongside the numbers, signifying that they were made between 1990 and 1999.

Newer tires have 4-digit numbers, where the first two digits signify the week of the year and the latter two digits indicate the year.

DO NOT REPAIR TIRES YOURSELF
Practically no RV owner we know is properly equipped or trained to repair tires. The equipment and supplies, not to mention the skills required, go way beyond everyday tire care knowledge.

Know the right answers
It is both incorrect and dangerous to attempt to repair a tire without removing it from the wheel on which it is mounted.

You will sometimes see cheap “string” repair kits in auto parts stores and even in some convenience stores. You may also be told that a “plug” repair can be done from the outside of the tire, without removing it from the wheel.

Using these types of repairs is dangerous and can do permanent damage to your tires, rendering them unusable. Improper repairs will also invalidate any warranty on your tires.

Recognize a Proper Repair
A correctly repaired tire will have both a plug or “stem” through any hole, and a reinforced patch on the inside. There are some combination units that are acceptable. A plug alone is not enough. A patch alone is not enough.

Repairs can only be made in the tread area, and only inside the area between the shoulder grooves as shown here.

What makes it a proper repair?
1. Punctures are filled and sealed with a “stem.”
2. Inside of tire has a reinforced patch covering the puncture.
3. Tire is fully inspected inside and out for hidden damage.
4. Repair is made according to tire manufacturer’s specifications.
5. Repair size does not exceed limits set by tire manufacturer.
6. Repair is in a permitted location.

The last 3 or 4 digits of the DOT number on your tires tell you the week and year that the tire was manufactured.
What air does

Surprising as it might seem, it’s not the tires that support your vehicle. It’s the air inside them. And that’s why it’s so critical that you keep the right inflation pressure in every tire all the time.

It’s not the tire, but the air inside it that supports the load.

What to Do After You Weigh Your Vehicle

READING THE TABLES - Each tire manufacturer publishes load and inflation tables for its tires, and these are what you’ll use to find the correct inflation pressure.

Check the ratings
First, compare the actual axle end weight, which you determined by weighing the fully loaded vehicle, with the maximum load allowed on the tires you have on the vehicle.

The actual permissible load depends on both the tire size and load range. The maximum load amount is molded into the sidewall of the tire. It’s also shown in the load and inflation tables, alongside the letter indicating the load range of your tires.

On a Bridgestone or Firestone load and inflation table (which can be found in data books available at your tire supplier) maximum loads are shown in boldface. For the tire size 225/70R19.5, as you can see from the chart, the maximum load for a single tire is 2,755 lbs. for a “D” load range tire, 3,195 lbs. for an “E” load range tire, 3,640 lbs. for an “F” load range tire and 3,970 lbs. for a “G” load range tire.

Increasing pressures
And also notice that sometimes, you can increase load capacity by increasing the inflation pressure in your tires. In our example, a single “F”-rated tire can be used with a load of 3,315 lbs. at 85 psi, 3,450 lbs. at 90 psi and 3,640 lbs. at 95 psi.

Remember, these are minimum pressures for each of these loads. In other words, you can increase your inflation pressure above what the chart shows, so long as you don’t exceed the maximum pressure specified for that tire.

Never operate your vehicle with tires inflated to less pressure than required for the load. Never operate your vehicle with tires inflated to less pressure than specified on the vehicle placard, NO MATTER WHAT THE LOAD.

Never inflate your tires above the maximum pressure shown on their sidewalls.
Protecting Your Most Important Assets

Keeping air inside – where it belongs
It would be nice if you could just put the right inflation pressure in your tires and forget it. Unfortunately, that’s what too many people try to do.

The trouble is, air doesn’t stay inside your tires. Those molecules are active little guys, always looking for a way out. And they find it too.

How much can you lose?
Depending on size, a tire can lose 1 to 2 pounds of inflation pressure (psi) per month by diffusion through sidewalls. If you have a bad valve stem or faulty seal between the tire and wheel – or a nail in one of your tires – losses can occur even faster.

That means up to 12 psi loss in just 6 months if you never check and adjust inflation pressure. That’s enough loss for many tires to be seriously – and dangerously – underinflated.

Depending on the size of the tire, you can lose 1 to 2 psi per month as a result of diffusion of air molecules through tire sidewalls.

How often should you check?
The absolute best practice you could use would be to check (and adjust, if necessary) every single tire, every single travel day.

Many tires used on RVs are commercial grade tires and commercial drivers are required to check their tires as part of their pre-trip checks. Of course if you go somewhere and park your vehicle for a week, you wouldn’t need to check every day during that time – just the day you arrive and the day you leave.

That’s probably too much for most RV owners, so we suggest this: Make sure you check (and adjust, if necessary) the cold inflation pressure in every tire on your vehicle at least once during every travel week.

Altitude and outdoor temperatures also affect inflation pressures, another good reason to check them frequently.

What happens if you don’t?
Running a tire underinflated is like running your engine without enough oil or coolant. It may seem to work OK for a while, but you are doing serious, permanent damage.

Adding oil or coolant won’t fix engine damage, and adding air won’t fix tire damage. The tire is still seriously damaged and can still fail, even after inflation is corrected.

If you find any tire 20 percent or more underinflated, you should have it inspected (both inside and out) by your tire dealer.

Is there an easier way?
Checking inflation shouldn’t take that long to do, and it shouldn’t be that hard. On the gatefold pages at the back of this booklet, you’ll find some tips to make inflation checks easier and more effective.
### Load & Inflation Tables for Tires Frequently Used on RVs

**READING THE TABLES** – Each tire manufacturer publishes load and inflation tables for its tires, and these are what you’ll use to find the correct inflation pressure.

<table>
<thead>
<tr>
<th>Tire Size Designation</th>
<th>Usage</th>
<th>kPa psi 480 70</th>
<th>psi 520 75</th>
<th>psi 550 80</th>
<th>psi 590 85</th>
<th>psi 620 90</th>
<th>psi 660 95</th>
<th>psi 690 100</th>
<th>psi 720 105</th>
<th>psi 760 110</th>
<th>psi 790 115</th>
<th>psi 830 120</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>9R22.5</strong></td>
<td>DUAL</td>
<td>kg 1480 3270</td>
<td>kg 1550 3410</td>
<td>kg 1610 3550</td>
<td>kg 1670 3690</td>
<td>kg 1750 3860</td>
<td>kg 1820 4005</td>
<td>kg 1890 4150</td>
<td>kg 1950 4300</td>
<td>kg 2010 4425</td>
<td>kg 2070 4550</td>
<td>kg 2120 4675</td>
</tr>
<tr>
<td></td>
<td>lbs 3270</td>
<td>3410</td>
<td>3550</td>
<td>3690</td>
<td>3860</td>
<td>4005</td>
<td>4150</td>
<td>4300</td>
<td>4425</td>
<td>4550</td>
<td>4675</td>
<td>4675</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg 1530 3370</td>
<td>kg 1610 3560</td>
<td>kg 1690 3730</td>
<td>kg 1760 3890</td>
<td>kg 1850 4080</td>
<td>kg 1920 4235</td>
<td>kg 1990 4390</td>
<td>kg 2060 4540</td>
<td>kg 2120 4675</td>
<td>kg 2180 4810</td>
<td>kg 2240 4940</td>
</tr>
<tr>
<td></td>
<td>lbs 3370</td>
<td>3560</td>
<td>3730</td>
<td>3890</td>
<td>4080</td>
<td>4235</td>
<td>4390</td>
<td>4540</td>
<td>4675</td>
<td>4810</td>
<td>4940</td>
<td>4940</td>
</tr>
<tr>
<td><strong>10R22.5</strong></td>
<td>DUAL</td>
<td>kg 1750 3660</td>
<td>kg 1830 4045</td>
<td>kg 1910 4230</td>
<td>kg 2000 4410</td>
<td>kg 2080 4585</td>
<td>kg 2190 4760</td>
<td>kg 2240 4940</td>
<td>kg 2300 5075</td>
<td>kg 2360 5210</td>
<td>kg 2430 5360</td>
<td>kg 2500 5515</td>
</tr>
<tr>
<td></td>
<td>lbs 3660</td>
<td>4045</td>
<td>4230</td>
<td>4410</td>
<td>4585</td>
<td>4760</td>
<td>4940</td>
<td>5075</td>
<td>5210</td>
<td>5360</td>
<td>5515</td>
<td>5675</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg 1850 4080</td>
<td>kg 1940 4280</td>
<td>kg 2030 4480</td>
<td>kg 2120 4675</td>
<td>kg 2200 4850</td>
<td>kg 2280 5025</td>
<td>kg 2360 5205</td>
<td>kg 2430 5360</td>
<td>kg 2500 5515</td>
<td>kg 2575 5675</td>
<td>kg 2575 5675</td>
</tr>
<tr>
<td></td>
<td>lbs 4080</td>
<td>4280</td>
<td>4480</td>
<td>4675</td>
<td>4850</td>
<td>5025</td>
<td>5205</td>
<td>5360</td>
<td>5515</td>
<td>5675</td>
<td>5675</td>
<td>5675</td>
</tr>
<tr>
<td><strong>11R22.5</strong></td>
<td>DUAL</td>
<td>kg 1990 4380</td>
<td>kg 2080 4580</td>
<td>kg 2160 4760</td>
<td>kg 2250 4950</td>
<td>kg 2360 5205</td>
<td>kg 2460 5415</td>
<td>kg 2560 5625</td>
<td>kg 2650 5840</td>
<td>kg 2680 5895</td>
<td>kg 2710 5950</td>
<td>kg 2725 6005</td>
</tr>
<tr>
<td></td>
<td>lbs 4380</td>
<td>4580</td>
<td>4760</td>
<td>4950</td>
<td>4950</td>
<td>5205</td>
<td>5415</td>
<td>5625</td>
<td>5840</td>
<td>5895</td>
<td>5950</td>
<td>6005</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg 2050 4530</td>
<td>kg 2160 4770</td>
<td>kg 2260 4990</td>
<td>kg 2370 5220</td>
<td>kg 2500 5510</td>
<td>kg 2600 5730</td>
<td>kg 2700 5950</td>
<td>kg 2800 6175</td>
<td>kg 2870 6320</td>
<td>kg 2940 6465</td>
<td>kg 3000 6610</td>
</tr>
<tr>
<td></td>
<td>lbs 4530</td>
<td>4770</td>
<td>4990</td>
<td>5220</td>
<td>5510</td>
<td>5730</td>
<td>5950</td>
<td>6175</td>
<td>6320</td>
<td>6465</td>
<td>6610</td>
<td>6610</td>
</tr>
<tr>
<td><strong>11R24.5</strong></td>
<td>DUAL</td>
<td>kg 2110 4660</td>
<td>kg 2210 4870</td>
<td>kg 2300 5070</td>
<td>kg 2390 5260</td>
<td>kg 2500 5510</td>
<td>kg 2600 5720</td>
<td>kg 2700 5940</td>
<td>kg 2725 6005</td>
<td>kg 2820 6205</td>
<td>kg 2910 6405</td>
<td>kg 3000 6610</td>
</tr>
<tr>
<td></td>
<td>lbs 4660</td>
<td>4870</td>
<td>5070</td>
<td>5260</td>
<td>5510</td>
<td>5720</td>
<td>5940</td>
<td>6005</td>
<td>6205</td>
<td>6405</td>
<td>6610</td>
<td>6610</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg 2190 4820</td>
<td>kg 2300 5070</td>
<td>kg 2410 5310</td>
<td>kg 2520 5550</td>
<td>kg 2650 5840</td>
<td>kg 2770 6095</td>
<td>kg 2890 6350</td>
<td>kg 3000 6610</td>
<td>kg 3080 6790</td>
<td>kg 3160 6970</td>
<td>kg 3250 7160</td>
</tr>
<tr>
<td></td>
<td>lbs 4820</td>
<td>5070</td>
<td>5310</td>
<td>5550</td>
<td>5840</td>
<td>6095</td>
<td>6350</td>
<td>6610</td>
<td>6790</td>
<td>6970</td>
<td>7160</td>
<td>7160</td>
</tr>
<tr>
<td><strong>12R22.5</strong></td>
<td>DUAL</td>
<td>kg 2170 4780</td>
<td>kg 2260 4990</td>
<td>kg 2350 5190</td>
<td>kg 2440 5390</td>
<td>kg 2575 5675</td>
<td>kg 2630 5785</td>
<td>kg 2680 5895</td>
<td>kg 2726 6005</td>
<td>kg 2840 6265</td>
<td>kg 2960 6525</td>
<td>kg 3075 6780</td>
</tr>
<tr>
<td></td>
<td>lbs 4780</td>
<td>4990</td>
<td>5190</td>
<td>5390</td>
<td>5675</td>
<td>5785</td>
<td>5895</td>
<td>6005</td>
<td>6265</td>
<td>6525</td>
<td>6780</td>
<td>6780</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg 2240 4940</td>
<td>kg 2360 5200</td>
<td>kg 2470 5450</td>
<td>kg 2580 5690</td>
<td>kg 2725 6005</td>
<td>kg 2820 6205</td>
<td>kg 2910 6405</td>
<td>kg 3000 6610</td>
<td>kg 3120 6870</td>
<td>kg 3240 7130</td>
<td>kg 3350 7390</td>
</tr>
<tr>
<td></td>
<td>lbs 4940</td>
<td>5200</td>
<td>5450</td>
<td>5690</td>
<td>6005</td>
<td>6205</td>
<td>6405</td>
<td>6610</td>
<td>6870</td>
<td>7130</td>
<td>7390</td>
<td>7390</td>
</tr>
<tr>
<td>TIRE SIZE DESIGNATION</td>
<td>USAGE</td>
<td>kPa psi</td>
<td>480</td>
<td>70</td>
<td>520</td>
<td>75</td>
<td>550</td>
<td>80</td>
<td>590</td>
<td>85</td>
<td>620</td>
<td>90</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------</td>
<td>---------</td>
<td>-----</td>
<td>----</td>
<td>-----</td>
<td>----</td>
<td>-----</td>
<td>----</td>
<td>-----</td>
<td>----</td>
<td>-----</td>
<td>----</td>
</tr>
<tr>
<td><strong>8R19.5</strong></td>
<td><strong>DUAL</strong></td>
<td>kg lbs.</td>
<td>1120</td>
<td>2460</td>
<td>1170</td>
<td>2570</td>
<td>1215 (D)</td>
<td>2680 (D)</td>
<td>1260</td>
<td>2785</td>
<td>1310</td>
<td>2890</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>1150</td>
<td>2540</td>
<td>1220</td>
<td>2680</td>
<td>1265 (D)</td>
<td>2835 (D)</td>
<td>1340</td>
<td>2955</td>
<td>1400</td>
<td>3075</td>
</tr>
<tr>
<td><strong>225/70R19.5</strong></td>
<td><strong>DUAL</strong></td>
<td>kg lbs.</td>
<td>1230</td>
<td>2720</td>
<td>1300</td>
<td>2860</td>
<td>1360 (E)</td>
<td>3000 (E)</td>
<td>1410</td>
<td>3115</td>
<td>1470</td>
<td>3245</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>1310</td>
<td>2895</td>
<td>1380</td>
<td>3040</td>
<td>1450 (E)</td>
<td>3195 (E)</td>
<td>1500</td>
<td>3315</td>
<td>1570</td>
<td>3450</td>
</tr>
<tr>
<td><strong>245/70R19.5</strong></td>
<td><strong>R250 ONLY</strong></td>
<td>kg lbs.</td>
<td>1550</td>
<td>3415</td>
<td>1590</td>
<td>3515</td>
<td>1660</td>
<td>3655</td>
<td>1750 (F)</td>
<td>3860 (F)</td>
<td>1790</td>
<td>3940</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>1650</td>
<td>3640</td>
<td>1700</td>
<td>3740</td>
<td>1770</td>
<td>3890</td>
<td>1850 (F)</td>
<td>4080 (F)</td>
<td>1900</td>
<td>4190</td>
</tr>
<tr>
<td><strong>245/70R19.5</strong></td>
<td><strong>M724 ONLY</strong></td>
<td>kg lbs.</td>
<td>1550</td>
<td>3415</td>
<td>1590</td>
<td>3515</td>
<td>1660</td>
<td>3655</td>
<td>1750 (F)</td>
<td>3860 (F)</td>
<td>1870</td>
<td>4125</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>1650</td>
<td>3640</td>
<td>1700</td>
<td>3740</td>
<td>1770</td>
<td>3890</td>
<td>1850 (F)</td>
<td>4080 (F)</td>
<td>1980</td>
<td>4370</td>
</tr>
<tr>
<td><strong>265/70R19.5</strong></td>
<td><strong>M729 ONLY</strong></td>
<td>kg lbs.</td>
<td>1700</td>
<td>3745</td>
<td>1780</td>
<td>3925</td>
<td>1860</td>
<td>4100</td>
<td>1950</td>
<td>4300</td>
<td>2000</td>
<td>4410</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>1800</td>
<td>3970</td>
<td>1900</td>
<td>4190</td>
<td>1970</td>
<td>4345</td>
<td>2060</td>
<td>4540</td>
<td>2300</td>
<td>4850</td>
</tr>
<tr>
<td><strong>265/70R19.5</strong></td>
<td><strong>R250F ONLY</strong></td>
<td>kg lbs.</td>
<td>1700</td>
<td>3750</td>
<td>1780</td>
<td>3930</td>
<td>1860</td>
<td>4095</td>
<td>1950</td>
<td>4300</td>
<td>2000</td>
<td>4405</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>1800</td>
<td>3970</td>
<td>1900</td>
<td>4180</td>
<td>1970</td>
<td>4335</td>
<td>2060</td>
<td>4540</td>
<td>2130</td>
<td>4685</td>
</tr>
<tr>
<td><strong>285/70R19.5</strong></td>
<td><strong>DUAL</strong></td>
<td>kg lbs.</td>
<td>1980</td>
<td>4365</td>
<td>2000</td>
<td>4400</td>
<td>2120</td>
<td>4675</td>
<td>2150</td>
<td>4735</td>
<td>2220</td>
<td>4900</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>2110</td>
<td>4645</td>
<td>2190</td>
<td>4835</td>
<td>2300</td>
<td>5070</td>
<td>2360</td>
<td>5205</td>
<td>2440</td>
<td>5385</td>
</tr>
<tr>
<td><strong>305/70R19.5</strong></td>
<td><strong>DUAL</strong></td>
<td>kg lbs.</td>
<td>2060</td>
<td>4540</td>
<td>2120</td>
<td>4670</td>
<td>2200</td>
<td>5070</td>
<td>2300</td>
<td>5370</td>
<td>2370</td>
<td>5410</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>2240</td>
<td>4940</td>
<td>2330</td>
<td>5130</td>
<td>2420</td>
<td>5340</td>
<td>2500</td>
<td>5510</td>
<td>2610</td>
<td>5745</td>
</tr>
<tr>
<td><strong>255/70R22.5</strong></td>
<td><strong>DUAL</strong></td>
<td>kg lbs.</td>
<td>1800</td>
<td>3970</td>
<td>1860</td>
<td>4110</td>
<td>1940</td>
<td>4275</td>
<td>2000</td>
<td>4410</td>
<td>2020</td>
<td>4455</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>1900</td>
<td>4190</td>
<td>1980</td>
<td>4370</td>
<td>2060</td>
<td>4550</td>
<td>2120</td>
<td>4685</td>
<td>2220</td>
<td>4895</td>
</tr>
<tr>
<td><strong>275/70R22.5</strong></td>
<td><strong>R294 ONLY</strong></td>
<td>kg lbs.</td>
<td>2080</td>
<td>4590</td>
<td>2180</td>
<td>4815</td>
<td>2290</td>
<td>5040</td>
<td>2390</td>
<td>5270</td>
<td>2490</td>
<td>5490</td>
</tr>
<tr>
<td></td>
<td><strong>SINGLE</strong></td>
<td>kg lbs.</td>
<td>2230</td>
<td>4920</td>
<td>2340</td>
<td>5160</td>
<td>2450</td>
<td>5400</td>
<td>2560</td>
<td>5645</td>
<td>2670</td>
<td>5880</td>
</tr>
</tbody>
</table>
### Tire Load Limits at various Cold Inflation Pressures

<table>
<thead>
<tr>
<th>TIRE SIZE DESIGNATION</th>
<th>USAGE</th>
<th>kPa (psi)</th>
<th>480 (70)</th>
<th>520 (75)</th>
<th>550 (80)</th>
<th>590 (85)</th>
<th>620 (90)</th>
<th>660 (95)</th>
<th>690 (100)</th>
<th>720 (105)</th>
<th>760 (110)</th>
<th>790 (115)</th>
<th>830 (120)</th>
<th>860 (125)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>245/75R22.5</strong> DUAL</td>
<td>kg lbs.</td>
<td>1430</td>
<td>1500</td>
<td>1600</td>
<td>1640</td>
<td>1710</td>
<td>1800</td>
<td>1840</td>
<td>1900</td>
<td>1950</td>
<td>2090</td>
<td>2120</td>
<td>2400</td>
<td>2430</td>
</tr>
<tr>
<td><strong>245/75R22.5</strong> SINGLE</td>
<td>kg lbs.</td>
<td>1570</td>
<td>1650</td>
<td>1750</td>
<td>1800</td>
<td>1880</td>
<td>1950</td>
<td>2020</td>
<td>2090</td>
<td>2120</td>
<td>2400</td>
<td>2430</td>
<td>2720</td>
<td>2750</td>
</tr>
<tr>
<td><strong>265/75R22.5</strong> DUAL</td>
<td>kg lbs.</td>
<td>1600</td>
<td>1690</td>
<td>1750</td>
<td>1830</td>
<td>1910</td>
<td>2000</td>
<td>2050</td>
<td>2130</td>
<td>2180</td>
<td>2570</td>
<td>2640</td>
<td>2920</td>
<td>2990</td>
</tr>
<tr>
<td><strong>265/75R22.5</strong> SINGLE</td>
<td>kg lbs.</td>
<td>1760</td>
<td>1850</td>
<td>1950</td>
<td>2010</td>
<td>2100</td>
<td>2180</td>
<td>2260</td>
<td>2340</td>
<td>2360</td>
<td>2670</td>
<td>2670</td>
<td>3000</td>
<td>3000</td>
</tr>
<tr>
<td><strong>295/75R22.5</strong> DUAL</td>
<td>kg lbs.</td>
<td>1860</td>
<td>1950</td>
<td>2060</td>
<td>2130</td>
<td>2220</td>
<td>2300</td>
<td>2390</td>
<td>2460</td>
<td>2570</td>
<td>2800</td>
<td>2870</td>
<td>3075</td>
<td>3150</td>
</tr>
<tr>
<td><strong>295/75R22.5</strong> SINGLE</td>
<td>kg lbs.</td>
<td>2040</td>
<td>2140</td>
<td>2240</td>
<td>2340</td>
<td>2440</td>
<td>2550</td>
<td>2660</td>
<td>2760</td>
<td>2870</td>
<td>3075</td>
<td>3150</td>
<td>3250</td>
<td>3250</td>
</tr>
<tr>
<td><strong>295/75R22.5 R227 ONLY</strong> DUAL</td>
<td>kg lbs.</td>
<td>2030</td>
<td>2130</td>
<td>2240</td>
<td>2320</td>
<td>2420</td>
<td>2520</td>
<td>2660</td>
<td>2760</td>
<td>2870</td>
<td>3075</td>
<td>3150</td>
<td>3250</td>
<td>3250</td>
</tr>
<tr>
<td><strong>295/75R22.5 R227 ONLY</strong> SINGLE</td>
<td>kg lbs.</td>
<td>2230</td>
<td>2340</td>
<td>2430</td>
<td>2550</td>
<td>2660</td>
<td>2775</td>
<td>2960</td>
<td>3065</td>
<td>3150</td>
<td>3250</td>
<td>3350</td>
<td>3450</td>
<td>3450</td>
</tr>
<tr>
<td><strong>285/75R24.5</strong> DUAL</td>
<td>kg lbs.</td>
<td>1870</td>
<td>1970</td>
<td>2060</td>
<td>2150</td>
<td>2240</td>
<td>2360</td>
<td>2410</td>
<td>2490</td>
<td>2570</td>
<td>2800</td>
<td>2870</td>
<td>2990</td>
<td>2990</td>
</tr>
<tr>
<td><strong>285/75R24.5</strong> SINGLE</td>
<td>kg lbs.</td>
<td>2060</td>
<td>2160</td>
<td>2260</td>
<td>2360</td>
<td>2460</td>
<td>2575</td>
<td>2650</td>
<td>2740</td>
<td>2800</td>
<td>2920</td>
<td>2990</td>
<td>3075</td>
<td>3075</td>
</tr>
<tr>
<td><strong>275/80R22.5</strong> DUAL</td>
<td>kg lbs.</td>
<td>2060</td>
<td>2160</td>
<td>2260</td>
<td>2360</td>
<td>2460</td>
<td>2575</td>
<td>2650</td>
<td>2740</td>
<td>2800</td>
<td>2920</td>
<td>2990</td>
<td>3075</td>
<td>3075</td>
</tr>
<tr>
<td><strong>275/80R22.5</strong> SINGLE</td>
<td>kg lbs.</td>
<td>2240</td>
<td>2340</td>
<td>2440</td>
<td>2540</td>
<td>2640</td>
<td>2750</td>
<td>2830</td>
<td>2910</td>
<td>2980</td>
<td>3060</td>
<td>3150</td>
<td>3250</td>
<td>3250</td>
</tr>
<tr>
<td><strong>295/80R22.5</strong> DUAL</td>
<td>kg lbs.</td>
<td>2180</td>
<td>2280</td>
<td>2380</td>
<td>2480</td>
<td>2580</td>
<td>2680</td>
<td>2780</td>
<td>2880</td>
<td>2980</td>
<td>3080</td>
<td>3180</td>
<td>3280</td>
<td>3280</td>
</tr>
<tr>
<td><strong>295/80R22.5</strong> SINGLE</td>
<td>kg lbs.</td>
<td>2430</td>
<td>2530</td>
<td>2630</td>
<td>2730</td>
<td>2830</td>
<td>2930</td>
<td>3030</td>
<td>3130</td>
<td>3230</td>
<td>3330</td>
<td>3430</td>
<td>3530</td>
<td>3530</td>
</tr>
<tr>
<td><strong>305/75R22.5</strong> DUAL</td>
<td>kg lbs.</td>
<td>2360</td>
<td>2460</td>
<td>2560</td>
<td>2660</td>
<td>2760</td>
<td>2860</td>
<td>2960</td>
<td>3060</td>
<td>3160</td>
<td>3260</td>
<td>3360</td>
<td>3460</td>
<td>3460</td>
</tr>
<tr>
<td><strong>305/75R22.5</strong> SINGLE</td>
<td>kg lbs.</td>
<td>2575</td>
<td>2675</td>
<td>2775</td>
<td>2875</td>
<td>2975</td>
<td>3075</td>
<td>3175</td>
<td>3275</td>
<td>3375</td>
<td>3475</td>
<td>3575</td>
<td>3675</td>
<td>3675</td>
</tr>
</tbody>
</table>

*All Bridgestone Tires Except R296*
### Tire Load Limits at various Cold Inflation Pressures

<table>
<thead>
<tr>
<th>TIRE SIZE DESIGNATION</th>
<th>USAGE</th>
<th>kPa psi</th>
<th>250</th>
<th>350</th>
<th>300</th>
<th>400</th>
<th>450</th>
<th>500</th>
<th>550</th>
<th>600</th>
<th>660</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>35</td>
<td>45</td>
<td>50</td>
<td>60</td>
<td>65</td>
<td>75</td>
<td>80</td>
<td>85</td>
<td>90</td>
</tr>
<tr>
<td>LT215/85R16</td>
<td>DUAL</td>
<td>kg lbs.</td>
<td>630</td>
<td>1360</td>
<td>720</td>
<td>1625</td>
<td>800 (C)</td>
<td>100</td>
<td>870</td>
<td>1965</td>
<td>2150 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>720</td>
<td>1545</td>
<td>820</td>
<td>1845</td>
<td>910 (C)</td>
<td>104</td>
<td>1000</td>
<td>2260</td>
<td>2381</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg lbs.</td>
<td>695</td>
<td>1495</td>
<td>790</td>
<td>1785</td>
<td>880 (C)</td>
<td>103</td>
<td>965</td>
<td>2180</td>
<td>2355 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>790</td>
<td>1700</td>
<td>900</td>
<td>2030</td>
<td>1000 (C)</td>
<td>108</td>
<td>1100</td>
<td>2485</td>
<td>2623 (D)</td>
</tr>
<tr>
<td>LT235/85R16</td>
<td>DUAL</td>
<td>kg lbs.</td>
<td>635</td>
<td>1365</td>
<td>725</td>
<td>1630</td>
<td>800 (C)</td>
<td>100</td>
<td>885</td>
<td>1995</td>
<td>2150 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>720</td>
<td>1545</td>
<td>820</td>
<td>1845</td>
<td>910 (C)</td>
<td>104</td>
<td>1000</td>
<td>2255</td>
<td>2381</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg lbs.</td>
<td>700</td>
<td>1500</td>
<td>795</td>
<td>1790</td>
<td>880 (C)</td>
<td>103</td>
<td>970</td>
<td>2190</td>
<td>2335 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>790</td>
<td>1700</td>
<td>900</td>
<td>2030</td>
<td>1000 (C)</td>
<td>108</td>
<td>1100</td>
<td>2480</td>
<td>2623 (D)</td>
</tr>
<tr>
<td>LT225/75R16</td>
<td>DUAL</td>
<td>kg lbs.</td>
<td>630</td>
<td>1360</td>
<td>720</td>
<td>1630</td>
<td>800 (C)</td>
<td>100</td>
<td>885</td>
<td>1995</td>
<td>2150 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>720</td>
<td>1545</td>
<td>820</td>
<td>1845</td>
<td>910 (C)</td>
<td>104</td>
<td>1000</td>
<td>2255</td>
<td>2381</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg lbs.</td>
<td>700</td>
<td>1500</td>
<td>795</td>
<td>1790</td>
<td>880 (C)</td>
<td>103</td>
<td>970</td>
<td>2190</td>
<td>2335 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>790</td>
<td>1700</td>
<td>900</td>
<td>2030</td>
<td>1000 (C)</td>
<td>108</td>
<td>1100</td>
<td>2480</td>
<td>2623 (D)</td>
</tr>
<tr>
<td>LT245/75R16</td>
<td>DUAL</td>
<td>kg lbs.</td>
<td>630</td>
<td>1360</td>
<td>720</td>
<td>1630</td>
<td>800 (C)</td>
<td>100</td>
<td>885</td>
<td>1995</td>
<td>2150 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>720</td>
<td>1545</td>
<td>820</td>
<td>1845</td>
<td>910 (C)</td>
<td>104</td>
<td>1000</td>
<td>2255</td>
<td>2381</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg lbs.</td>
<td>700</td>
<td>1500</td>
<td>795</td>
<td>1790</td>
<td>880 (C)</td>
<td>103</td>
<td>970</td>
<td>2190</td>
<td>2335 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>790</td>
<td>1700</td>
<td>900</td>
<td>2030</td>
<td>1000 (C)</td>
<td>108</td>
<td>1100</td>
<td>2480</td>
<td>2623 (D)</td>
</tr>
<tr>
<td>LT265/75R16</td>
<td>DUAL</td>
<td>kg lbs.</td>
<td>630</td>
<td>1360</td>
<td>720</td>
<td>1630</td>
<td>800 (C)</td>
<td>100</td>
<td>885</td>
<td>1995</td>
<td>2150 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>720</td>
<td>1545</td>
<td>820</td>
<td>1845</td>
<td>910 (C)</td>
<td>104</td>
<td>1000</td>
<td>2255</td>
<td>2381</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg lbs.</td>
<td>700</td>
<td>1500</td>
<td>795</td>
<td>1790</td>
<td>880 (C)</td>
<td>103</td>
<td>970</td>
<td>2190</td>
<td>2335 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>790</td>
<td>1700</td>
<td>900</td>
<td>2030</td>
<td>1000 (C)</td>
<td>108</td>
<td>1100</td>
<td>2480</td>
<td>2623 (D)</td>
</tr>
</tbody>
</table>

### Tire Load Limits at various Cold Inflation Pressures

<table>
<thead>
<tr>
<th>TIRE SIZE DESIGNATION</th>
<th>USAGE</th>
<th>kPa psi</th>
<th>240</th>
<th>280</th>
<th>310</th>
<th>340</th>
<th>380</th>
<th>410</th>
<th>450</th>
<th>480</th>
<th>520</th>
<th>550</th>
<th>590</th>
<th>620</th>
<th>660</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
<td>65</td>
<td>70</td>
<td>75</td>
<td>80</td>
<td>85</td>
<td>90</td>
<td>95</td>
</tr>
<tr>
<td>8.75R16.5LT</td>
<td>DUAL</td>
<td>kg lbs.</td>
<td>625</td>
<td>1380</td>
<td>685</td>
<td>1515</td>
<td>740</td>
<td>1630</td>
<td>800 (C)</td>
<td>100</td>
<td>840</td>
<td>1855</td>
<td>895</td>
<td>1970</td>
<td>950 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>710</td>
<td>1570</td>
<td>780</td>
<td>1850</td>
<td>900 (C)</td>
<td>104</td>
<td>955</td>
<td>2110</td>
<td>1020</td>
<td>2240</td>
<td>1090 (D)</td>
<td>111</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg lbs.</td>
<td>710</td>
<td>1570</td>
<td>780</td>
<td>1850</td>
<td>900 (C)</td>
<td>104</td>
<td>955</td>
<td>2110</td>
<td>1020</td>
<td>2240</td>
<td>1090 (D)</td>
<td>111</td>
<td></td>
</tr>
<tr>
<td>9.50R16.5LT</td>
<td>DUAL</td>
<td>kg lbs.</td>
<td>740</td>
<td>1635</td>
<td>810</td>
<td>1785</td>
<td>875</td>
<td>1925</td>
<td>950 (C)</td>
<td>106</td>
<td>1000</td>
<td>2200</td>
<td>1060</td>
<td>2330</td>
<td>1120 (D)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>845</td>
<td>1860</td>
<td>920</td>
<td>2030</td>
<td>995</td>
<td>2190</td>
<td>1090 (C)</td>
<td>111</td>
<td>1130</td>
<td>2500</td>
<td>1200</td>
<td>2650</td>
<td>1285 (D)</td>
</tr>
<tr>
<td></td>
<td>SINGLE</td>
<td>kg lbs.</td>
<td>740</td>
<td>1635</td>
<td>810</td>
<td>1785</td>
<td>875</td>
<td>1925</td>
<td>950 (C)</td>
<td>106</td>
<td>1000</td>
<td>2200</td>
<td>1060</td>
<td>2330</td>
<td>1120 (D)</td>
</tr>
</tbody>
</table>

13
Dual tires add lots of load capacity to an axle, but they require the same maintenance as single tires. The valve stem for the inner tire of a dual may be difficult or even impossible to reach. Fortunately, there are things you can do.

Sometimes, the inner dual is difficult or impossible to check. You may need to add extension hoses to solve this problem.

**CLOCK ’EM!**

When dual tires are mounted on the vehicle, they should always be put on with the valve stems 180 degrees apart. If one valve is at 12 o’clock, the other should be at 6 o’clock. That’s one way to make checking inflation pressures easier.

**REPLACE ’EM!**

If you have rubber valve stems, they should be replaced with properly rated valve stems every time you replace a tire. It’s cheap to do, and could save a costly repair bill later.

What’s even better is to replace your rubber valve stems with all-steel stems. On these, you only have to replace the rubber grommets each time. And, steel stems are necessary if you need to use valve extensions.

If the holes in the wheels are too small or in the wrong places, it may be impossible to check inflation on inside tires. That’s no excuse for not doing it, however.

The answer may be adding extension hoses that connect to the valve stem on the inside tire and are fastened to the outer wheel. That way you can check inflation on both tires quickly and easily.

If you use extension hoses, you must use all-steel valve stems, because the extra weight of the hoses can distort rubber stems and cause leaks, especially at highway speeds.

The best extension hoses will have stainless steel reinforcement and external braiding for long, trouble-free life.

Make sure the ends of the hoses are securely attached to the wheels so that they cannot come loose over time. We’ve illustrated a couple of good methods for attaching the hose ends here.

Adding extension hoses to the inside wheels of dual assemblies can make inflation pressure maintenance easier.

If you use extension hoses, the hoses must be securely fastened to the wheels, as shown here.
There is only one way to correctly measure the inflation pressure in your tires, and that is with a quality inflation pressure gauge. Tire “billies,” boot toes, hammers, tire irons and baseball bats are NOT inflation pressure gauges. No matter how much experience you have, if you use these techniques, you are NOT measuring inflation pressure, and you risk serious underinflation of your tires – and that can be both dangerous and expensive. Never measure inflation pressures with anything other than a good gauge.

When you buy a gauge, get one with a double, angled foot. This will make checking the outer tire of a dual set much easier. And, treat your tire gauge like any other precision instrument: don’t drop it or use it for any purpose other than that for which it was made.

If you drop your gauge, take it to your tire dealer and ask them to check it for accuracy. Shock can knock any gauge out of calibration, sometimes by a lot.

No one can tell by looking at a tire whether it has the correct inflation pressure. The eyes DON’T have it.

Another way you CANT tell correct inflation is by looking at your tires. With today’s radial tires, a visual inspection cannot be used to verify correct inflation. Different tires, from different manufacturers will have different degrees of bulge at a given pressure.

The difference between the shape of a correctly inflated tire and one that is dangerously underinflated is too subtle to determine by eye.

Please, always use a good air pressure gauge - and ONLY a good air pressure gauge - to measure the inflation pressure in your tires.

No one can tell by looking at a tire whether it has the correct inflation pressure.
Check it out!
Considering the hard work RV tires have to do, if you find any tire 20 percent or more below the correct pressure, treat that tire as a commercial vehicle tire (which most RV tires are): Have the tire removed, demounted and inspected – inside and out – by a qualified tire technician.

Keep it “COLD”!
Always check inflation when the tires are cold. “Cold” means when they’re at the same temperature as the outdoor air.

The way to make sure your tires are cold is to either park the vehicle and wait at least 3 hours before checking pressures, or to let the vehicle sit parked overnight, then check the pressures before you’ve driven it a mile.

A short, low-speed drive to the gas station is OK, but not a long, 65-mph freeway jaunt. Never let air out of a hot tire, no matter how high the pressure seems to be. You’ll just end up with an underinflated tire when it cools down.

Check it out!
Driving on a tire that is 20 percent or more underinflated can cause serious, permanent damage to the tire that may not be visible. Only a qualified technician can tell if the tire is safe for continued use. Tires with internal damage from underinflation can fail catastrophically and without warning, a serious safety hazard.

Check through the CAPS
If you’ve ever dropped a valve stem cap into a puddle or lost it in gravel, you’ll really appreciate the new, double-seal, flow-through valve caps that are available.

These caps allow you to check and adjust air pressures without ever removing the caps themselves. They have a good rubber seal, together with an internal valve that is designed to keep out dirt and water while allowing you to check and adjust pressures.

The most common flow-through cap is the “Alligator V2B.” Ask your tire dealer for a set. And don’t forget one for each of your spare tires!

Special, double-seal, flow-through valve caps allow you to inflate and check tires without having to remove valve caps.

Check ‘em all!
Many vehicles have dual tires. You must check both tires because both tires are essential to properly handling the load. The second tire is not a “spare” or a “backup” for the other one.

Both tires should have absolutely identical inflation pressures, and both should have about the same amount of wear. Neither should show any evidence of serious damage to the tread or sidewalls.

And speaking of spares, be sure to check your spare tires too! If you get a flat along the way, you’ll be glad you did.
Rotate to equalize wear

If you have a tire that is wearing unevenly, or one tire that is wearing faster than another in an equivalent position, it may be a sign of some kind of misalignment, and you should check it.

Once the uneven wear has begun, however, you may be able to extend the life of the tire by moving it to a position where the wear will be counteracted, or to a position where the wear will be slower. If you move a tire to a new position, be sure the inflation pressure is correct for the new position.

Steer tires that are wearing on one side or the other of the tread can often be swapped from one axle end to the other. Sometimes this can shift wear away from the part of the tire that’s excessively worn, evening out overall wear.

Likewise, if you have a tire position that consistently wears tires faster than another, you may be able to shift tires from the slower-wearing positions there, again evening out the wear and extending tire life.

Assuming all tires on the vehicle are exactly the same size, exactly the same tread pattern and exactly the same load range, there are a variety of rotation patterns you can use to equalize tread wear.

Consult your owner’s manual or tire dealer to select the best approach for you.
There are numerous organizations that can help you operate your vehicle safely and answer questions you may have about tire and component life. A few are listed here. Remember also to contact the dealer who sold you your vehicle and your tire dealer for additional information.

**FMCA**
Family Motor Coach Association
FMCA is an international organization for families who own and enjoy the recreational use of motorhomes. A portion of the membership is from the commercial recreational vehicle industry: dealers, manufacturers and RV component suppliers.

FMCA
8291 Clough Pike
Cincinnati, OH 45244
(800) 543-3622
(513) 474-3622
www.fmca.com

**RMA**
Rubber Manufacturers Association
RMA is the primary national trade association for the finished rubber products industry in the U.S. including tires of all types.

RMA
1400 K Street NW, Suite 900
Washington, DC 20005
(202) 682-4800
www.rma.org

**RVDA**
Recreational Vehicle Dealers Association
RVDA is a national association representing RV dealers, providing educational programs, products and services to its members.

RVDA
3930 University Drive
Fairfax, VA 22030-2515
(703) 591-7130
(703) 591-0734 fax
www.rvda.org

**RVIA**
Recreational Vehicle Industry Association
RVIA is a national trade association representing RV manufacturers, conversion vehicle manufacturers and suppliers.

RVIA
1896 Preston White Drive
P.O. Box 2999
Reston, VA 20195-0999
(703) 620-6003
www.rvia.org

**RVSEF**
Recreational Vehicle Safety Education Foundation
RVSEF is a nonprofit foundation dedicated to the safety education needs of the RV industry. RVSEF created the “A ’Weigh We Go” RV weighing program in 1993, and has weighed thousands of RVs at rallies and seminars throughout the U.S.

RVSEF
4575 Annette Court
Merritt Island, FL 32953
(321) 453-7673
(321) 453-3853 fax
www.rvsafety.org
e-mail: staff@rvsafety.org

Presented as a public service by Bridgestone Firestone North American Tire, LLC.