

A monthly publication filled with industry news, maintenance and safety tips, upcoming events, special coupons, and more!



See page 3 for this month's special deal!

require additional traction. Sensors deliver driving conditions to a computer that determines power needed at each wheel.

4 Wheel Drive

Primarily found in large trucks and SUVs, this system is more traditional and has been around much longer. 4WD has become far more sophisticated since its' inception and can be found on a wider variety of vehicles.

All Wheel vs 4 Wheel...

About 45 percent of new vehicles sold in the U.S. are equipped with either all-wheel drive (AWD) or four-wheel drive (4WD). In states that receive heavy snowfalls in the winter, the number goes as high as 90%. Do you need it, and which one is best for you...

All-Wheel Drive

AWD systems deliver power to both the front and rear wheels at the same time. There are 2 types, full-time that delivers this power continuously and a part-time or automatic that delivers it as needed. In full-time AWD, both the front and rear axles are driven all the time. In part-time AWD, the system engages the other 2 wheels when road conditions



Technically, 4WD systems are very similar to AWD systems, but tend to be more robust than AWD ones and can generally handle more challenging conditions and terrain. Like AWD, they also come in full-time and part-time systems. Many 4WD systems also have low and high ranges that are driver selectable. Low range provides maximum traction in severe conditions. Some systems also allow the driver to lock the vehicle's differentials for extra traction in extreme off-road conditions.



Happy New Year!
from the Graeves Family



Pros and Cons

	Pros	Cons
AWD	<ul style="list-style-type: none"> • No decisions required by driver. • Broad range of choices for daily driver cars and SUVs. 	<ul style="list-style-type: none"> • Considered a lesser choice by off-roaders. • Increase to cost of vehicle. • Increase to fuel consumption.
4WD	<ul style="list-style-type: none"> • Best for adverse conditions. • Great for work or play conditions. • Increasingly available on broader range of vehicles. 	<ul style="list-style-type: none"> • Often a stiffer ride. • Higher cost to vehicle. • Higher fuel consumption.

The best system for you depends on where you live and your anticipated driving conditions. Another consideration includes your need for driver selectable mode control under extreme driving conditions or just increased handling without thinking about it.



Graeves Auto & Tire
 is a AAA approved auto repair center.
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Car Safety Tip of the Month!

Winter Wax...

Summer is not the only time to consider waxing your car. A fresh coat of wax can help protect your car from road dirt and grime all year long. Make sure you coat your headlights and keep them clean too. Your night-time visibility will be greatly improved!

NOTE: Make sure you check your wax's recommended application temperature range.



Did You Know?

Buckingham Palace has over 600 rooms, while our White House has a total of 132 rooms.

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The US shreds 7,000 tons of worn-out currency each year.

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Wind doesn't make a sound until it blows against something.

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The first train reached a top speed of only 5 mph.

January 2021 New Years Special!

at Graeves Auto & Tire



**Start the year off right for your vehicles
with an oil change and tune up!**



*Family owned and operated
serving Montgomery County
since 1952...*

COUPON

Print and bring this coupon with you to
Graeves Auto & Tire at the time of purchase
and receive **10% off an oil change and tune up.**

(This coupon may not be used in conjunction with
any other promotions or coupons.)

Coupon expires: January 31, 2021

COUPON