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Book Descriptions:

Drive Manual Like A Pro

Whether it's your first time behind the wheel of a standard car or you have some experience but could use a refresher, follow the steps below. They'll help you build confidence and avoid frustration. The more familiar you are with the configuration, the easier it will be when it comes time to drive it, since you'll have to perform many small manoeuvres at the same time. Sit in the driver's seat and take note of the various components. You'll see that there are three pedals the clutch on the left, the brake in the middle and the accelerator on the right. Use your left foot to operate the clutch and your right foot to operate the brake and the accelerator. Normally, first gear is in the top left position, alternating with the others. Depressing the clutch prepares the motor to switch gears; it's essential to the smooth functioning of the engine! Get a feel for the clutch. Familiarize yourself with its resistance and when you can feel it grip. Every clutch has a friction point and this is the point where you should ideally be changing gears. Practice switching from one gear to the other, pressing the clutch pedal down each time. The goal is to coordinate the movements of your hand and foot, keeping in mind that when you're driving you will need to pay full attention to the road. With practice, knowing when to shift gears will become instinctive. But as you're learning, you should aim to change gears when the tachometer approaches 3 3000 RPM. Take a moment to locate the exact position of the tachometer on your dash, so you can easily look at it whenever you need. You can also rely on your ears if you hear an unpleasant noise the sound of the motor turning or a coughing sound, it's probably time to change gears. Try out both of these techniques. But remember, never start in first gear without pressing on the clutch your car is guaranteed to stall or jerk forward slightly, which you want to avoid. It's time to begin practicing your new skills in a moving vehicle.<http://www.appraiser1004.com/userfiles/craftsman-16-inch-scroll-saw-manual.xml>

- **drive manual like a pro, how to drive manual car like a pro, drive manual like a pro.**

Be sure to do this on a level surface where there aren't many people around. Start the car, move into first gear and gently press down on the accelerator, always keeping your eyes focused ahead. When you see the tachometer approaching 3, release the accelerator while simultaneously pushing down on the clutch pedal your left foot falls as your right foot rises, and use the gear shift to move into second gear. As soon as you've done this, release the clutch pedal while pressing on the accelerator your left foot rises as your right foot falls, trying to maintain a steady speed. Be patient with yourself and don't get discouraged. It's a set of movements that demands a high degree of coordination at first. Some people pick it up more easily, while others have to memorize the steps If you're coming only to a brief stop, there's no need to shift all the way down to first gear. But if you choose to go into first, the process is the same. It's more powerful than first gear, but doesn't react like second gear either. The bottom line in a standard car, knowing how to drive forward doesn't mean you know how to back up. In some situations, you don't need to use the accelerator to back up, so play around with the clutch and brake pedal to get a feel for how the car responds and be economical in your movements. There is friction the rubbing together of the gears at the precise moment when the motor is on the verge of making the wheels turn. This is the friction point. Hold this position. These two actions must be timed perfectly. Then, proceed with changing gears as you normally would. This system keeps your brakes working for approximately a half a second as you move your right foot from the brake to the accelerator. Either way, the emergency brake is a must! You just have to practice, and in no time you'll be navigating the roads with confidence regardless of hills, traffic, or inclement weather.<http://www.cwbrokers.com/image/craftsman-16-inch-variable-speed-scroll-saw-manual.xml>

In fact, most drivers of manual transmission cars feel a greater sense of security because they can use the gears strategically to negotiate difficult situations. You may wind up feeling the same way. Turn the ignition key. If you are certain that the car is in neutral, you can remove your foot from the clutch. Ensure that the parking or emergency brake is not in use. Press the brake, or the center pedal, with your right foot. Position the gear shifter so that the transmission is in the first gear. Remove your right foot from the brake pedal. If you are on a flat surface, the vehicle should move very little. Slowly begin to place less pressure on the clutch with your left foot. Depending on the vehicle, you may feel it begin to slowly roll forward. As you gently release the clutch, begin to press the accelerator very delicately with your right foot. Once you have released the clutch completely, you should now only be pressing the accelerator with your right foot. Congratulations — you're driving in first gear. Continue to build speed until you feel that you need to shift into second gear. To switch to the second gear, take your right foot off of the accelerator while simultaneously activating the clutch with your left foot. Your car will continue to roll. Move the gear shifter into second gear. Release the clutch as you begin to apply the accelerator again. Repeat this process to continue to build speed. Some people call it learning how to drive stick or how to drive a manual. Whatever you call it, both are the same. Many drivers never learn how to drive a car with a manual transmission, or stick shift. The ability to drive a stick shift will allow you to drive any type of vehicle regardless of it being an automatic or manual. When first learning how to drive this type of vehicle, it is best to find a large parking lot or empty street on which to practice.

For many drivers, learning to drive a stick shift is similar to learning to ride a bicycle; at first the task seems impossible, but after you acquire the skill you will never struggle again. The following directions will provide a basic guideline for your first few attempts at driving a car with a manual transmission.

9 Easy Steps for Driving a Stick Shift

1 Understand the Different Pedals Before you begin to drive a stick shift, you need to understand how this type of car differs from cars with automatic transmissions. While seated in the driver's seat, take a look at the three pedals at your feet. Clutch, gas and brake pedals in a car with a manual transmission

The first pedal on the left is the clutch. This pedal appears only in cars with manual transmissions. The middle pedal is the brake. The right pedal is the accelerator. You will use your left foot for the clutch and your right foot for the brake and accelerator. When you push in the clutch, or step down with your left foot on the clutch pedal, you are disengaging the assembly. When you are lifting your foot off the clutch pedal, the friction of the assembly starts moving, causing your vehicle to move forward.

2 Understand the Gear Shifter Before starting the car, take a look at the gear shifter. Most cars with manual transmissions have a gear shifter in the middle of the passenger and driver seats. Typical 5 speed manual gear shifter

First gear is typically located at the top left corner and the remaining four or five gears rotate from top to bottom, left to right. The gear locations will be clearly marked on most stick shift vehicles. If the gear shift is located in the center, the car will be in neutral, at which point you should be able to easily move the gear shifter back and forth.

3 Start the Car To start a stick shift, first press the clutch all the way to the floor board with your left foot. Ensure that the gear shifter is in the neutral position then turn the ignition with the key.

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Ensure that the parking or emergency brake is not in use.

4 Push in the Clutch To prepare to drive the manual vehicle, press the clutch with your left foot and the brake, or the center pedal, with your right foot.

5 Put the Car into First Gear Next, position the gear shifter so that the transmission is in the first gear. Again, this should be the position furthest to the left and at the top half of the gear box.

6 Let Off the Brake Remove your right foot from the brake pedal. If you are on a flat surface, which is ideal for your first attempt, the vehicle should move very little.

7 Let Off the Clutch and Push on the Throttle Slowly begin to place less pressure on the clutch with your left foot. As you gently release the clutch, begin to press the accelerator with your right foot. This is a delicate

motion. Do not accelerate your vehicle excessively. Remember that first gear is only designed for speeds up to about fifteen miles per hour. 8 Know When to Change Gears At some point, you will have released the clutch completely and will only be pressing the accelerator with your right foot. You will be driving in first gear. As the car reaches a new speed bracket you need to change the gear up one 9 Upshift to Second Gear and Repeat Take your right foot off of the accelerator while simultaneously activating the clutch with your left foot. Downshifting When decreasing speed and downshifting, the process is the same as above for accelerating but going from a higher gear to a lower gear. You may experience higher revs when downshifting, so make sure to use more of the accelerator pedal. If you don't accelerate enough, the car will decelerate more abruptly. Going in Reverse When you need to reverse the vehicle, oftentimes, you won't have to push the gas pedal. If you do, it will be a little bit. Set the car into reverse when at a complete stop, and slowly let out the clutch with your other foot on the brake to control the car.

Parking Manual cars don't have a "Park" gear, so it is important to engage the emergency parking brake every single time. You will also want to put the car into gear, not neutral, that way you have both the emergency brake and the gears keeping your car from moving or rolling. Starting on a Hill Hills can be tricky to master since you will likely roll back, and risk hitting a car behind you. To easily start a manual vehicle on a hill, rely on the parking brake. Position your wheel in the direction you want to go and let off the clutch and onto the throttle as you normally would. Once you feel the car fight against your parking brake, release the brake and engage the clutch. Watch the following stick shift guide before practicing in a car When you park a stick shift, make sure that you leave the gear shifter in first position and apply the clutch until the ignition is turned off. With a little practice and some tips from experienced stick shift drivers, you will be an expert in no time. CLICK ICON TO SHARE 93% of people found this article helpful. Click a star to add your vote 172 votes average 4.67 out of 5 93% of people told us that this article helped them. Pass the First Time with Premium Need to pass your DMV exam. Be fully prepared in days, not weeks, and pass using our fast and efficient method, or it's free. Pass with Premium, Guaranteed Up next Downhill and Uphill Parking Explained How to Park on a Hill Safely What to do if your Brakes Fail 5Step Emergency Guide to Changing Tires on Your Own Follow us on DrivingTests.org is a privately owned website that is not affiliated with or operated by any state government agency. By using our site, you agree to our cookie policy.Learn why people trust wikiHow Ibrahim Onerli is the Partner and Manager of Revolution Driving School, a New York Citybased driving school with a mission to make the world a better place by teaching safe driving.

Ibrahim trains and manages a team of over 8 driving instructors and specializes in defensive driving and stick shift driving.This article received 171 testimonials and 94% of readers who voted found it helpful, earning it our readerapproved status.To drive a manual, you'll need to familiarize yourself with the clutch, become comfortable with the gearstick, and practice starting, stopping, and shifting gears at various driving speeds.Especially if this is your first time driving a car with a manual transmission, start slowly and methodically. Put your seat belt on once you sit down. While learning, it can be useful to roll down the windows.This layout is the same for both lefthand drive and righthand drive vehicles. When one or both are spinning, the clutch allows you to switch gears without grinding the teeth of each separate gear. Ibrahim Onerli Driving Instructor Ibrahim Onerli is the Partner and Manager of Revolution Driving School, a New York Citybased driving school with a mission to make the world a better place by teaching safe driving. Ibrahim trains and manages a team of over 8 driving instructors and specializes in defensive driving and stick shift driving. This would also be a good time to take note of how the travel of the clutch pedal differs from that of the brake and gas.With practice, you'll get used to using both feet in concert. This is the middle position that feels free when moved from side to side.If you're on level ground, you should remain stationary; you'll start rolling if you're on a hill.You may want to practice shifting through the various gears with

the engine switched off and the clutch engaged. Continue until you hear the engine speed begin to drop, then push it back in. Repeat this several times until you can instantly recognize the sound. In order to get moving, lift your left foot up from the clutch pedal until the RPMs drop slightly. At the same instant, apply light pressure to the accelerator with your right foot.

Balance the light downward pressure on the accelerator with slowly releasing pressure on the clutch pedal. At this point the car will start to move. It is best to have the engine rev just enough to prevent stalling as the clutch pedal is let up. This process may be a little difficult at first because you are new to the extra pedal in a manual car. If you release the clutch too quickly the engine will stall. If the engine sounds like it is going to stall, hold the clutch where it is or push down a bit further. If you do stall, depress the clutch fully, apply the handbrake, put the car in neutral, switch the engine off and restart the car as normal. This is called riding the clutch and should be avoided. When your RPM reaches about 2500 to 3000 while the car is in motion, it is time to shift to the next gear — for example, second gear if you are currently in first. The actual RPMs at which shifting is required will vary by the car you are driving, however. Shifting gears in motion is the same as shifting into first from a stationary position. It's all about listening, looking, and feeling for the engine's cues and getting the up-and-down timing of your feet on the pedals correct. Resting your foot on the clutch pedal is a bad habit, as it applies pressure to the clutch mechanism — and the increased pressure will cause the clutch to wear out prematurely. If you are going too slow for the current gear you're in, your car will shudder as if it's about to stall. To come to a stop in a fully controlled manner, shift down gradually until you reach first gear. When it's time to come to a complete stop, move your right foot from the accelerator to the brake pedal and press down as much as is required. Press the clutch pedal fully down and move the gearstick into neutral to prevent stalling the car. This should only be done when you need to stop quickly, though, as it puts you in less control of the vehicle.

While you can legally practice alone on any public road with a valid driver's license, you will pick up the nuances of driving a manual car faster if you have an experienced driver accompanying you. Start off in a flat, isolated area like a large and empty car park, then move on to quiet suburban streets. When you're new to driving a manual, plan routes that avoid traffic lights at the top of steep hills. You can use the parking brake to limit backward drifting if necessary, but always remember to disengage it as you start moving forward. Unlike automatics, manual transmission cars don't have a "park" gear. But, simply putting the car in neutral opens the possibility of your car rolling freely, especially if parked on an incline or decline. If facing downhill, do the same but shift into reverse. This will prevent the wheels from rolling in the direction of the slope. However, it is possible on most manual transmissions to shift into first or possibly second when the car is moving backwards at a slow speed, but it is not recommended as this can cause excessive wear on the clutch. Before using the reverse gear, make sure you know about this locking mechanism and how to disengage it before selecting reverse. The first gear is really only made for starting to get moving or for driving very slow. Shift gears, then slowly release the clutch and press the accelerator at the same time. The clutch is meant to disengage your current gear so that you can move to the next gear. You may not notice you have moved through neutral after doing it many times, but every time you are changing gears, neutral is an inevitable pass. Then proceed as usual to move forward. Try starting it without pressing the clutch, and if it doesn't start, then press it. A manual transmission requires clutch input from the driver, and the driver must change the gears themselves. Pause at the friction point the part where the engine starts to move the car and continue slowly pulling the clutch out.

That way you can keep your eyes on the road and focus on what is ahead of you. Initially, you feel inclined to look at the gearstick, but you will need to resist the temptations. You will feel the car moving a bit, then let down the handbrake and the car will move freely. The last thing you want is to back into something or someone when you think you've shifted into first gear. Moisture will freeze and the handbrake might not disengage. A car with an automatic gearbox is usually a better choice

for the urban driver, but every driver has their own personal preference. Others prefer automatics for their simplicity; as many motorists say all they have to do is concentrate on their road positioning, and that their knees don't get sore waiting in traffic. It results in premature wear, loss of power and lowers fuel economy. Your foot should only be on the clutch pedal and FULLY depressed when you wish to change gears or if you need to quickly remove power from the drive wheels i.e. when in a skid on slippery surfaces such as gravel, ice, etc.. The clutch pedal should only be gradually released when starting out from a stop. Shift into 1st gear to be ready to start from a stop on an incline, as described in the steps above. Depress the accelerator first then slowly release the clutch to biting point. The car will move without you aiming for perfect clutch position. Add more gas when going uphill. A manual transmission requires more experience than an automatic. Over rev the engine, and severe damage to the engine may result. Shifting into reverse while the car is in motion will damage most manual gearboxes. You can roll back and hit the person or object behind you if you are not holding in the brake and the clutch. This can help to avoid overheating and damage to the starter and discharging the battery completely.

Amid the current public health and economic crises, when the world is shifting dramatically and we are all learning and adapting to changes in daily life, people need wikiHow more than ever. Your support helps wikiHow to create more in-depth illustrated articles and videos and to share our trusted brand of instructional content with millions of people all over the world. Please consider making a contribution to wikiHow today. Ibrahim Onerli is the Partner and Manager of Revolution Driving School, a New York City-based driving school with a mission to make the world a better place by teaching safe driving. Ibrahim trains and manages a team of over 8 driving instructors and specializes in defensive driving and stick shift driving. This article has been viewed 6,027,143 times. Then, turn the car on and take your foot off the clutch pedal. When you're ready to start driving, press the clutch down and move the gearstick into first gear. Finally, slowly lift your foot off the clutch while pressing down on the accelerator with your other foot. Don't worry if you stall out a few times. If you do, just let go of the clutch, apply the handbrake, and start over. If you want to learn more about when to shift into higher gears, keep reading! After reading that tutorial, I now have an idea about driving. But after reading this article, I am able to change from 1st to 2nd and from 2nd to 1st. At least I have the basics. Thanks so much for the article. By continuing to use our site, you agree to our cookie policy. Please help us continue to provide you with our trusted how-to guides and videos for free by whitelisting wikiHow on your ad blocker. If you really can't stand to see another ad again, then please consider supporting our work with a contribution to wikiHow. The easiest way to drive a manual, or stick shift, car, from starting the engine to shifting gears without stalling.

After studying this detailed guide, you will be able to start the car, get it moving, and then upshift into higher gears with ease. Don't be disappointed if you don't get it at first. It took me a while to get used to a stick shift, but it was well worth it. Keep practicing and practicing and you will get it. Have fun! At the end, I have included some common questions about driving a stick shift and some basic tips on how to drive an automatic transmission car as well. How to Drive a Manual or Stick Shift Car for Beginners Find a flat, paved place with no one around where you can practice. With just the right amount of gas, your car will begin to move forward. When I got my 2012 Mustang GT with a manual transmission, I was so excited about driving it. I looked up some guides on how to drive a manual car and didn't think it was going to be difficult to learn. How wrong I was. My 412-horsepower and 390-torque Coyote engine was a difficult car to drive. I stalled it left and right. Eventually I learned that you don't need to step on the gas to get the car moving. Depending on the speed at which the engine idles—that is, the speed it runs at when you're not pushing on the gas pedal—just releasing the clutch will move the car to an extent. I played with the clutch and got a feel for the friction point or biting point; that is, the point where the car is rolling, but the clutch is asking you to add more gas. At this point, you feel a little resistance, a little vibration from the clutch pedal; the car is

asking for enough gas so that it can run when the clutch is fully out. After incorporating what I had learned with this newfound technique, my first start was the smoothest one yet. Make sure you are in a secluded area and that you have enough space in front of you so you can move at different speeds without running into something. Get to Know Where the Gears Are With the engine off, move the stick around. On this stick, reverse is to the right and down.

On other stick shifts reverse is to the left and up. Bill Selak via Flickr CC BYND 2.0 Know the Pedals The far left is not a pedal, its a resting place for your foot while driving. The clutch pedal is second from the left. The brake is next and the gas is on the far right. To be sure you are in neutral, wiggle the stick back and forth. Start the Car in Neutral To start the car, push the clutch in all the way in, hold it down, and turn the key. Make sure the car is in neutral before releasing the clutch. If you can, you are in neutral. Now you are just sitting there with the engine running, doing nothing and going nowhere, which is just fine for this first step. Press the clutch in all the way and move the gear shift into first gear. Usually this is to the left and up away from you. Shift Into First Gear Now push the clutch in all the way, and put the car into first gear using the gear stick. Youll usually find first gear by pushing the stick left and then away from you. Keep the clutch in or you will stall the car. But dont worry You will stall trying to shift into gear, but with time you will get it. Some cars have a pushbutton emergency, or parking, brake control as above. Many others have a lever with release button at the end. Release the Emergency Brake Now that the car is running, make sure your emergency brake handbrake is off. Since you are on flat ground, the car wont roll anywhere while you are figuring out what to do. Press down on the gas until the needle on your tachometer is between 1000 and 2000 rpm. Release the Clutch and Give the Engine Some Gas Once you are in first gear, slowly release the clutch until you feel the car just start moving. This is the tricky part. Get a feel for this biting point when the car starts to shudder a bit because it will make learning to drive manual a lot easier. Practice until you can get to the point quickly. Begin to slowly add some gas by pushing down the gas pedal a little bit.

If you give too little gas, the car will stall. If you give too much, you begin to burn the clutch, which is no big deal for a beginner, but over time can wear out the clutch. Release the Clutch After Gears Engage Now that you are giving the car a little bit of gas, dont release the clutch fully just yet. Release it when you can feel the gears engage. This will feel like a vibration you can sense through the sole of your foot. Once you get to that point, you can release the clutch, and drive around without using the clutch, just as you would in an automatic transmission car. Congratulations! You have started a manual car. I found this technique of looking for the biting point made it easier for me to learn manual. Once I came across this method, I learned how to drive very quickly. I believe this is truly the easiest way to drive a manual car. Just push the clutch back in and turn the key, and that will start the car back up. Make sure the car is in neutral, and go through the steps again. Whenever you feel like the car is going to stall, you can just push the clutch back in. To shift from first to second, press in on the clutch and pull the gear shift down towards you. To shift up to third gear, press in on the clutch and move the gear shift up and to the right. Shifting Into Higher Gears Shifting, in my opinion, is a lot easier than starting to move the car. You shift from 1, to 2, to 3, to 4, to 5, and then to 6, if you have a sixth gear. How do you shift into the higher gears. It is pretty much the same procedure as starting the car up, except much easier. Lets say you are in first gear going into second. Follow these procedures. Put the clutch in, and then move the stick to second. In order to make a totally smooth shift, you have to balance the gas and the clutch very well. Dont worry, this comes with practice. To shift from first to second and then into higher gears, watch your tachometer.

When the neele reads 2500 or 3000 rpms, your engine is ready for you to shift into higher gear. Shift Up When the Engine Reaches 2500 RPM How do you know when to shift. You can either look at the rpms or the speed you are going. You should usually shift at 2500 to 3000 rpms. The speed to shift

gears varies with the car you are driving, so look at the instruction manual to determine the speeds. The speed for each gear isn't as important for upshifting as it is for downshifting. Eventually you will be able to tell when to shift by the way the engine sounds and feels. To start the engine, you must be in neutral gear. Wiggle the gear shift back and forth to be sure you are in neutral. After starting the engine, keep the clutch pressed in all the way. Watch the needle on your tachometer. You can completely release the clutch when the needle is between 1,000 and 2,000 rpm. Just push the clutch back in and turn the key, and that will start the car back up. So why did you stall. You put the car into first gear, but you didn't give the car enough gas to move. It wanted to move, but there wasn't enough gas, so it stalled. Whenever you feel like the car is going to stall, you can just push the clutch back in. How Do I Stop a Manual Car. You don't need to press in the clutch every time you press the brake to slow down. But when coming to a full stop at a stop sign or traffic signal, press in on the clutch when you are almost to a full stop and shift into neutral, or you will stall the car. From a full stop, press the clutch in all the way and move the gear shift into reverse just as you would when shifting into any other gear. Because you control the gear changes yourself, the car can run more economically and efficiently in manual than in automatic. The brake is in the middle and the accelerator or gas pedal is on the far right. Basic Steps to Driving an Automatic Transmission Car Eight Steps to Get You Moving 1. Find a flat, paved place with no one around so you can practice. 2.

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