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Portland 1750 psi pressure washer won't turn on

Having problems with your cold water high pressure washer? This guide may help you figure out the problem and resolve it with a variety of solutions. These are some of the most common difficulties with pressure washer systems. If your questions isn't answered here, please give us a call and we'll see if we can help you get to the bottom of the issue.Engine Won't StartUsually a Spark PlugTurn off the engine, and make sure the wire that connects the spark plug is connected Fuel TankIf the fuel tank contains dirt and debris, siphon out the fuel tank, and do your best to clear out the debris. Spray gun not triggeredTrigger spray gun while starting engine. Water Leaks From PumpLoose FittingsThe most common cause for leaks are the fittings. Check to ensure that all fittings are tight. Water Seals are WornCall your local service center for parts or service. Although they are difficult to install yourself, it is possible if you are looking to save money on service. However, it is usually best to take the machine into your local service center. Water was frozen in pump.Because water expands when it freezes, if stored in freezing weather, there is a chance that the water cracked the pump. Do not try and fix the problem yourself, for safety reasons, take the machine into your local service center.Water leaks from Other PlacesLoose ConnectionCheck all machine fittings, if loose, purchase and replace new fittings. Bad O-RingsO-Rings are usually cheap and easy to replace. Find where the leak is coming from, and look for any damaged rings to replace Faulty HoseIf there is a slit or hole in the hose, it must be replaced. Pressure washer hoses are not able to be repaired.Clogged NozzleDebris through washer nozzle.Turn off and disconnect the washer gun. Either blow out the nozzle, or place a small piece of wire through the tip to unclog it.Low PressureRestricted Water SupplyCheck your garden hose to ensure it is the correct size, and does not have any leaks or knots in it Turn your pressure supply up or to the maximum. Debris or BlockageNot only will dirt restrict your water supply, but it can also cause damage to your pump. Check to make sure that no ends of the garden hose are in an dirty area. Fouled or dirty inlet or discharge valvesClean inlet and discharge valve assemblies. Check filter. Worn inlet or discharge valvesReplace worn valves. Worn or wrong size tipReplace with tip of proper sizePiston Guide DamagedRunning the pump without water.This is the number one cause for pressure washers needing a repair. When the water cycles through the pump without water being sprayed, it continues to cycle and eventually overheats, which can melt some internal components of the machineChemical Injector ProblemNo soap out of spray gun.Check to make sure the tip being used is a chemical injector tip, regular washer tips will not work properly for chemical injecting. Check to Ensure the Chemical Valve is open Ensure that the Chemical Nozzle being used is the correct size for the washer.Continuous Flow when Trigger is not pulledDebris in ValveCheck the spray gun to find where the debris is located, then rinse out where the location of the dirt is.Water leaks from under pump manifoldWorn packingsInstall new packings.Water on oil side of pumpHumid air condensing inside crankcaseChange oil as specified in MaintenanceChart Worn packingsInstall new packings. Oil seals leakingInstall new oil seals. Strong surging at inlet and low pressure on discharge sideForeign particles in inlet or discharge valve or worn inlet and/or discharge valvesClean or replace valves. We independently research, test, review, and recommend the best products—learn more about our process. If you buy something through our links, we may earn a commission. The Spruce / Ashley-Ziegler A pressure washer is a handy tool that can clean decking and siding, wash cars, remove mold from your driveway, and wash down lawn equipment. We researched the most popular pressure washers on the market and sent the top-rated models to our product testers to put them to the test at their own homes, evaluating power, ease of use, and effectiveness. Our favorite, the Simpson Cleaning MegaShot Gas Pressure Washer, is sturdy, easy to transport, and comes with an ergonomic spray gun, a high-pressure hose, and five nozzle tips. Here are the best pressure washers. What We Like Powerful motor Sturdy construction High pressure capacity What We Don't Like Expensive Some complaints about oil leaks Some complaints about pump Who else recommends it? Good Housekeeping and Bob Vila both picked the Simpson Cleaning MegaShot Gas Pressure Washer.What do buyers say? 89% of 7,500+ Amazon reviewers rated this 4 stars or above. One of the best pressure washers on the market is the Simpson Cleaning MegaShot Gas Pressure Washer. This powerful machine houses a Honda GC190 engine for reliable power. And it delivers a whopping 3,200 psi using 2.5 gallons per minute (gpm), making it ideal for use on your house, driveway, patio furniture, car, painted surfaces, and more. Our tester used the pressure washer to clean several areas around her home, including a deck, grill, driveway, and ATV, noting that the device is so powerful, it makes quick work of washing away all sorts of grime, but requires care when hosing down delicate surfaces such as old wood or siding. She also appreciated that while loud, this pressure washer isn't nearly as noisy as some other gas models. This pressure washer has a heavy-duty welded steel construction frame and 10-inch pneumatic tires for increased stability; our tester appreciated the durable construction. It weighs in at 66 pounds, but is easy to move to where you need it, thanks to the 10-inch pneumatic wheels. The MegaShot is equipped with a 25-foot kink-resistant hose, a reliable OEM axial pump, and an ergonomic spray gun. And it includes five stainless steel quick-connect nozzles for a variety of applications. This reliable, sturdy, and powerful gas-powered pressure washer is easy to set up and start; our tester commented that it took only 15 minutes to have the machine assembled and ready for use. Power Source: Gas | Pressure: 3,200 psi | GPM: 2.5 | Included Nozzles: Five The Spruce / Kelly Hodgkins What Our Testers Say “The Simpson delivers a super-strong stream of water that makes it easy to clean even the dirtiest and grimiest items. It cleaned everything we threw at it, from a weather-worn deck and a dirt-crusted driveway to a grimy old grill and a mud-encrusted ATV.”—Kelly Hodgkins, Product Tester What We Like Dual detergent tanks Auto shutoff Reasonably quiet What We Don't Like Not high-powered No storage for hose Short extension wand Electric power washers are easier to maintain—no oil changes necessary—but the downside is you have to be in close proximity to an electrical outlet. One of the most highly rated electric models today is the Sun Joe Electric Pressure Washer, which delivers 2,030 psi at 1.76 gpm. This affordable unit is equipped with dual detergent tanks, and it comes with five quick-connect spray tips to help you tackle all sorts of cleaning tasks. Our tester used this model to clean several small areas around her home, including patio furniture, a picket fence, siding, and a grill, noting that the device easily removed grease and dirt. The Sun Joe Pressure Washer features a 20-foot high-pressure hose, a garden hose adapter, a 34-inch extension wand, and a 35-foot power cord. Our tester noted that it took around 30 minutes to assemble the pressure washer, but once put together it is very easy to use, and maneuvers well on its oversize wheels even across grass or uneven ground. You can store two different types of detergent in the dual chambers, switching between them with the selection dial. This versatile power washer can be used for a variety of easy and tough tasks all around the exterior of your home. Power Source: Electric | Pressure: 2,030 psi | GPM: 1.76 | Included Nozzles: Five The Spruce / Kelly Hodgkins What Our Testers Say "We used it to clean our porch furniture, some white picket fencing, siding, and a grill we left outside all winter. The grill was caked with grime and grease, and the Sun Joe cut through it with ease. Because it isn’t overly powerful, the Sun Joe removed the superficial dirt from our porch furniture and siding without damaging it." — Kelly Hodgkins, Product Tester What We Like Onboard detergent tank Two spray wands Long motor life What We Don't Like Not exceptionally high-powered Some leaks Want to wash your car without scrubbing it by hand? A pressure washer like the Karcher K5 will get the job done in no time. This electric power washer delivers up to 2,000 psi at 1.4 gpm, and it has an onboard detergent tank for easy soap application. The Karcher K5 has up to 40 times as much pressure as a garden hose, and it includes two wands—the Vario for everyday cleaning and the DirtBlaster for tough jobs. The Karcher K5 has a water-cooled induction motor—a system that can help the motor live five times longer, and it comes with a 25-foot high-pressure hose and a 35-foot power cord. This 32-pound pressure washer is a great choice for washing cars, trucks, and SUVs, but it can also be used on tougher jobs like cleaning driveways. Power Source: Electric | Pressure: 2,000 psi | GPM: 1.4 | Included Nozzles: Two What We Like Lightweight Inexpensive Quiet What We Don't Like Only includes two spray tips Small detergent bottle Not high-powered Will you just need to tackle small jobs with your pressure washer? In that case, a more affordable model like the Greenworks Pressure Washer will serve you just fine. This budget-friendly model dials back the power to 1,500 psi and 1.2 gpm, making it ideal for smaller projects, such as cleaning patio furniture and washing your car. This lightweight electric pressure washer weighs just under 16 pounds and includes a 35-foot power cord and a 20-foot high-pressure hose. It can be used vertically or horizontally for greater stability, and it comes with 25- and 40-degree quick-connect tips for different spraying levels. It's a great value, but it's still powerful enough to clean siding, driveways, and more. Power Source: Electric | Pressure: 1,500 psi | GPM: 1.2 | Included Nozzles: Two What We Like Extremely powerful Five spray tips Long hose What We Don't Like No built-in detergent tank Can be tiring to use Noisy Gas pressure washers are typically more powerful than electric models due to their engines. And if you’re looking for a top-rated gas model that packs a mean punch, the Simpson PowerShot Pro Gas Pressure Washer may be the best power washer for you. This heavy-duty pressure washer delivers 4,400 psi to tackle even the toughest jobs at 4 gpm. This unit gets its power from a 420 cc engine, and it’s made from solid steel for durability. The washer’s kink- and abrasion-resistant hose is 50 feet long, and the 13-inch tires make it easy to steer across various terrains, including pavement or grass. The PowerShot Pressure Washer comes with five quick-connect nozzle tips that can be used for all sorts of applications, such as wood restoration and graffiti removal. Power Source: Gas | Pressure: 4,400 psi | GPM: 4.0 | Included Nozzles: Five What We Like Detergent tank Very powerful Durable construction What We Don't Like For washing driveways and other surfaces that require serious power, you need a model like the Champion Power Equipment Commercial Duty Gas Pressure Washer. While not everyone needs such a high level of performance, for those who do it’s hard to beat this professional-level machine. With water blasting out at 4,200 psi and 4 gpm—thanks to the premium Champion 389 CC engine—mud, engine grease, paint, mold, and other tough substances don’t stand a chance. The pressure washer boasts a 50-foot steel-braided hose that’s durable, non-marring, and three times more abrasion-resistant than rubber hoses. It has a AAA industrial triplex plunger pump that drives higher pressure to the nozzle for improved cleaning performance. Plus, it has a built-in detergent tank for messes that call for more than water alone. The solid steel frame will hold up to years of rigorous use; this pressure washer was designed for professional contractors and cleaners who face every manner of grunge and want it gone as quickly as possible. Despite its heavy-duty construction and power, it’s reasonably compact and easy to transport. Power Source: Gas | Pressure: 4,200 psi | GPM: 4.0 | Included Nozzles: Five What We Like Reasonable price Very portable Quiet What We Don't Like Not high-powered No built-in detergent tank Pressure washers can easily weigh 50 pounds or more, so if you’re looking for a product that’s a bit lighter to carry around your yard, you’ll like the Ryobi 1,600 PSI Electric Pressure Washer. This smaller unit from Ryobi weighs just 16 pounds, and it’s compact enough to store in even the most crowded garage or tool shed, a fact much appreciated by our product tester, who used this machine to clean several areas around her home, including siding, outdoor furniture, and a concrete patio and driveway. Plus, assembly is quick and easy. This 1,600-psi electric power washer uses 1.2 gpm, and it has a 35-foot power cord and a 20-foot hose. It includes three different nozzles, including a turbo nozzle for fast cleaning. And despite its compact size, it’s surprisingly powerful, although our tester noted it's best for washing objects that aren't up too high, such as second-story siding. It's great for cars, walkways, lawn tools, patio furniture, and first-story siding, however. Power Source: Electric | Pressure: 1,600 psi | GPM: 1.2 | Included Nozzles: Three What Our Testers Say "The Ryobi 1,600 PSI 1.2 GPM Electric Pressure Washer worked great on smaller jobs and on spots where I could get close to take advantage of the high-pressure spray."—Katie Begley, Product Tester What We Like Very high-powered High-performance engine Five nozzles What We Don't Like For washing concrete and other surfaces that require serious power, you need a model like the DEWALT 4400 PSI Gas Pressure Washer. This tough piece of machinery is designed for professionals. And with the help of its premium Honda GX390 engine, it can blast away dirt, grime, mold, paint, and more with ease. This DEWALT Pressure Washer delivers 4,400 psi at 4 gpm. And it boasts a durable, 50-foot, steel-braided hose that’s more abrasion-resistant than rubber hoses. It has a AAA industrial triplex plunger pump that drives pressure to the nozzle, and it’s easy to direct the ergonomic spray gun and switch out the five quick-connect nozzle tips. Power Source: Gas | Pressure: 4,400 psi | GPM: 4.0 | Included Nozzles: Five Final Verdict The best pressure washer on the market is the Simpson Cleaning MegaShot Gas Pressure Washer, which has a maximum psi of 3,200 and can tackle driveways, outdoor furniture, cars, and more. However, if you’re looking for something that’s specifically meant for cars, go with the Karcher K5 Premium Electric Power Pressure Washer (view at Amazon). It has a built-in detergent tank, making it easy for washing vehicles. Ellen Lindner / The Spruce One of the most important factors to consider when buying a pressure washer is how much force it creates. After all, more pressure equates to more cleaning power. This pressure is measured in psi, or pounds per square inch. Generally speaking, lower psi means less pressure. However, that doesn’t mean you should simply buy the highest psi machine you can find. Depending on how you intend to use your pressure washer, a lower psi may be perfect for your needs. Consumer pressure washers often start at around 1,300 to 1,800 psi. This type of light-duty machine is great for small residential jobs, such as washing cars, cleaning shutters, washing lawn furniture, and spot-cleaning light stains. The next step up is around 2,000 to 3,000 psi. These machines are often considered heavy-duty, as they can be used to clean house siding, driveways, decks, and other tough stains. Finally, machines with 3,000+ psi are considered professional-grade and are used for industrial cleaning, paint stripping, graffiti removal, and more. These high-end pressure washers are the most expensive, and in general most homeowners don’t need this much power. The other key factor that goes hand in hand with psi is gpm, or gallons per minute. This measures the volume of water that goes through the pressure water. Models with a higher gpm will clean faster and more effectively because they’re using more water. Gpm is directly correlated to psi; the higher the pressure, the more water the machine will use per minute. Light-duty machines may only use 1.5 gpm, while professional-grade models can reach up to 4 gpm. When shopping for a pressure washer, you’ll want to look at psi first, but keep an eye on gpm, as well. Depending on what you’re using for a water source, you might not be able to support a high-gpm machine. You’ll also want to look at how different pressure washers are powered. There are both gas and electric models available, and each of these styles has its own pros and cons. Electric-powered pressure washers are typically less expensive, lighter, and easier to maintain. Additionally, they run quieter and don’t create harmful air pollution. However, electric models are generally less powerful than gas ones, and you have to use them near an electrical outlet. This type of pressure washer is often best for small jobs around the house, such as cleaning cars, patio furniture, and grills. The other option is a gas-powered pressure washer. These machines are much more powerful, and because you’re not confined by a cord, they’re more portable and versatile. The downside is that gas machines require regular maintenance, and they’re louder and worse for the environment due to the gas combustion engine. Do pressure washers need to connect to a water tap? You’ll need to connect your pressure washer to a water source. Most often, that source will be an outdoor tap, and you’ll use your garden hose to connect the tap to the pressure washer. Most pressure washers require a garden hose that’s less than 50 feet long and with at least a ¾-inch inside diameter. If you don’t have access to an outdoor water tap, you still have options. One is to use the water tap for your washing machine. Those taps are threaded the same as an outdoor hose tap, so you’ll be able to hook up the hose without need of an adapter. You can also use a kitchen or bathroom sink. But as these are not threaded for hose attachments, you’ll need a threaded adapter sized for the tap as well as your hose. When using an indoor tap, you’ll need to run your garden hose inside through a window or door, so plan accordingly. Which spray nozzle should I use? Most pressure washers come with a variety of nozzles, each color-coded to a particular spray pattern. Here are general guidelines:The red nozzle creates a very focused, powerful stream of water. It’s best used for spot-cleaning very tough stains or dried materials on hard surfaces, such as concrete or steel. The yellow nozzle creates a 15-degree angle of spray, which is a narrow fan suitable for removing dried mud, tough stains, rust, mildew, or paint off sturdy surfaces, such as concrete or metal. The green nozzle creates a 25-degree angle of spray. This is the general-use nozzle and is suitable for blasting away mud, leaves, and other grime from decks, walkways, siding, fences, and driveways, as well as for cleaning boats, automobiles, and outdoor furniture. The white nozzle creates a 40-degree angle of spray, which is gentle enough for use cleaning delicate items, such as flower pots, windows, blinds, and automobiles. It’s also very useful for quickly rinsing objects. The black nozzle creates a large, 65-degree fan of water. This nozzle is typically used with detergents. What detergent do you use for a pressure washer? For many simple cleaning jobs, you don’t need detergent; the water blasting out of your pressure washer is enough to get the job done. But for many tasks, particularly those involving dried or tough grunge, you’ll get the best results by using a detergent. Some pressure washers have built-in tanks for detergent, while others require you to set a tube into the bottle of detergent so the pressure washer can suck it directly from the bottle. Either way, your best option by far is using a detergent specifically formulated for pressure washers. These detergents cut through grease and grunge yet don’t get soapy or foamy, leave a film on whatever you’re cleaning, or make the ground slippery. There are formulas for a variety of purposes: cleaning cars, siding, wooden decks, concrete, and driveways to name the most common. There are also many general-purpose pressure washer detergents, which are a good choice if you expect to use your pressure washer for a variety of cleaning jobs around your property. While some people use dishwashing detergent, this isn’t recommended, as there’s a good chance you’ll end up with an overflow of suds. And pouring dishwashing detergent into your pressure washer’s tank could destroy or damage the machine. The Spruce / Kelly Hodgkins This article was edited and updated by Michelle Ullman, who is the tool and home improvement expert for The Spruce. She has extensive experience writing and researching home content and has executed various DIY projects, including landscaping, painting, flooring, wallpapering, furniture makeovers, and simple repairs. For this roundup, she considered dozens of pressure washers, evaluating each model's basic features, extras, and customer reviews, as well as reports from our product testers.

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