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2002 jeep wrangler 4.0 vacuum hose diagram

8-speed automatic 6-speed manual manual transmission (+\$1,500) 8-speed automatic 6-speed manual transmission (+\$1,500) 8-speed automatic (+\$1,500) Drivetrain Drivetrain Fuel economy Fuel economy Fuel tank capacity Seating Capacity Seating Engine Power Transmission of torque 6-speed manual 8-speed automatic (+\$1,500) 6-speed manual 8-speed automatic (+\$1.1.) 6-speed manual 8-speed automatic 500) 8-speed automatic (+\$1,500) Transmission Maximum towing capacity CO2 emissions at 15K mi/year Fuel tank capacity City Cruising Range Highway Front width Front width Step Terraced terrace Seating Legroom front seat Rear seat Front seat Hip camera Rear seat Leg Rear seat Shoulder Shoulder Rear space Load space Load volume for seat 1 load volume per seat 2 load volume per seat 3 steering type Wheels type Front wheel Rear wheel size Rear pneumatic replacement tire Billet Silver Metallic Clearcoat Chief Clearcoat , Build Out:12/03/2020 Firecracker Transparent Red Granite Metal Crystal Billet Billet Silver Transparent Metal Coating Transparent Garment, Build Out: 12/03/2020 Red Firecracker Clearcoat Granite Crystal Metal Clearcoat HD Radio Bluetooth Connection Premium Satellite Audio System Radio Smart Device WiFi Integration Audio Hotspot Auxiliary MP3 Player Navigation System Flying Controls Audio Control Climate Control Cruise Control Cruise Control Front Seat Heated Front Seat Keyless Input Multi-Zone Input A/C Universal Garage Open Rear Door A/C Keyless Start Telematics Cross-up Support Camera Rear Traffic Alert Parking Aid Blind Spot Monitor Pressure Brake Stability Assistance Traction Control Traction Control Front Barrier Crash Rating Driver Front Side AirBag Passenger AirBag Basic Corrosion 5 Years / Unlimited Miles 5 Years / Unlimited Transmission Maintenance Miles 3 Years / Unlimited Miles 3 Years / Unlimited Miles Roadside Assistance Sports Cars That Look Good As the concept these are the 28 cars that don't return for 2021 12 ridiculously rare sports cars because the terra Rover Defender is the best off-roader you can buy right now The Fiat 124 Abarth is now a bigger special edition of A Convertible Deal Used Our Favorite Car Easter Eggs We drove the defender Land Rover from James Bond's No Time To Die For many fans, the Jeep Wrangler sits alone in the 21st-century automotive landscape. Rough, robust and equipped with standard capacity is pretty much the opposite of today's car-based crossovers and refined, luxury-focused SUVs. So while it's true that there's nothing currently on sale in the U.S. that matches Jeep's iconic Wrangler, there are several vehicles that evoke the same adventurous spirit and share some of its key features. Body on frame construction, part-time part-time with a low range, significant angles of height from the ground and breakovers suitable for track work are characteristic of the Wrangler and other similar vehicles. While the larger Nissan Xterra doesn't share the size of the Wrangler, it has an equally aggressive off-road focus. The Xterra 2015 is a medium-sized rear-wheel drive or four-wheel drive SUV. It features a traditional truck-style body-on-frame construction. The Nissan measures 178.7 inches long, 72.8 inches wide and 74.9 inches tall, with a pitch of 106.3 inches. These dimensions make it significantly larger than the 2015 Wrangler, which is only 152.8 inches long and sits on a 95.4-inch pitch. The Xterra is powered by a 4.0-liter V-6. This engine generates 261 horsepower at 5,600 rpm and 281 pounds of torque at 4,000 rpm. The Xterra boasts a wide range of off-road features, such as a sturdy whale rear suspension, hill start assistance, hill descent control, an electronic locking rear differential, a heavy duty aluminum rack with locking change box available, a loading area that can be arranged for easy cleaning, and built-in bumper steps for easy roof access. Low-range all-wheel drive is optional. The break angle of the Xterra varies from 22.9 degrees to 23.8 degrees, depending on the trim level. Its ground height measurements from 8.2 to 9.1 inches. In terms of overall appearance and attitude, the FJ Cruiser is the Wrangler's closest contemporary competitor. Like the Wrangler, the dramatically styled FJ Cruiser evokes a legendary off-roader from the past — in the case of the Toyota, the iconic FJ Land Cruiser. The 2014 FJ Cruiser is a bit bigger than the Wrangler. It measures 183.9 inches long, 75.0 inches wide and 72.0 inches tall, with a pitch of 105.9 inches. Like the Wrangler, it uses a body-on-frame design. The Toyota is powered by a 4.0-liter V-6 that produces 260 horsepower at 5,600 rpm and 271 pounds of torque at 4,400 rpm. Notable features include rear-hinged suicide rear doors, a high air intake for water drilling up to 28 inches deep, available on four-wheel-drive part-time with low range, and crawl control to negotiate challenging terrain at low speeds. The break angle of the FJ Cruiser is 27 degrees and its ground height is just under 10 inches. While the Toyota 4Runner is not a direct competitor to the Wrangler in terms of size or price, the two vehicles still have much in common. Like the Jeep, the 4Runner is a long-standing and respected SUV tag with decades of passionate support behind it. Unlike many sports vehicles the 4Runner hasn't abandoned its adventurous roots. It still features truck-style body-on-frame construction and traditional part-time all-wheel drive with low range. Despite its refined interior, it has the ability to tackle real trails. The 4Runner 2014 measures 190.2 inches long, 75.8 inches in and 71.5 inches high. Ride on a 109.8-inch pitch. Like the FJ Cruiser, the medium-sized 4Runner is powered by a 4.0-liter V-6. The engine generates 340 horsepower at 6,500 rpm and 278 pounds of torque at 4,400 rpm. While Toyota does not specify its breaking angle, the approach angle of the 4Runner is 33 degrees and its starting angle is 26 degrees. Its ground height is 9.6 inches. Despite its luxury interior, the 2014 LR4 still has the hardware you need for a real off-road vehicle. Like the other vehicles on this list, the Brit-class features body-on-frame construction and part-time all-wheel drive with low range. Its breaking angle is 27 degrees and has a maximum ground height of 9.5 inches when its adjustable air suspension is set to off-road mode. The SUV is powered by a 3.0-liter supercharged V-6. The engine generates 340 horsepower at 6,500 rpm and 332 pounds of torque at 3,500 rpm. Jeep Wranglers is designed by the factory for both regular and off-road driving. To help its off-road performance, the manufacturer raised the height of the vehicle to give it the ground height needed to navigate rough terrain. If the height of the factory ride is too high for you or if you're not planning to use your Wrangler off-roader, you might want to lower it. This can be done by installing new lowering springs on the suspension, cutting the existing suspension springs or installing a specialized suspension kit for lowering the vehicle. Install a series of aftermarket lowering springs designed to fit the Wrangler suspension system. These springs do not require any modification to the suspension and are essentially abbreviated duplicates of the factory springs. They are available in car parts stores and also online. Cut the factory suspension springs on your Wrangler at the same amount on all four corners. This will reduce the amount of travel springs. Cut the four springs one at a time using a hacker saw, making sure their lengths are identical. If they are irregular, the vehicle will not be leveled when reinstalled. Installing an aftermarket suspension kit is designed to make the Wrangler handle more like a coupe than a sports or off-road vehicle. These kits not only lower the driving height, but also offer smoother riding and smoother handling. Along with regular road tires, instead of off-road factory tires that come with the Wrangler, you should also enjoy the added benefit of increased fuel efficiency. Car Bibles is supported by readers. When you purchase via links on our site, we may an affiliate fee. Read more A Jeep Wrangler is ideal for off-road driving. It offers an excellent driving experience, especially for those who love adventure. However, one of the known downsides of this vehicle is its below-standard headlights, and it is known that every car and truck needs and reliable headlights to offer a good view of the road. If you love your regular safaris to the mountains, beaches, and other off-road trails, and you're a proud owner of a Jeep Wrangler, you're in luck when it comes to the best Jeep Wrangler headlights. There is a wide range of replacement options available and our guide below lists some of the most suitable headlights currently available. The best Jeep Wrangler headlights If you're looking for Jeep Wrangler headlights to replace the weak factory units provided, these certified LED lights are a great option. The 7+4 Cree LED Fog Lights black LED headlights are dot approved and are easy to install, so they are great for users who might change their headlights for the first time. It's a durable, quality Jeep Wrangler beacon that users can trust, and 100% patented Cree LED lamps offer over 50,000 hours of superior performance. Every Jeep owner should enjoy bright, clear lights that help perfect vision while driving at night, so that's why the 6,000k color temperature ensures users a good quality white light to light up the way. In addition, the black aluminum casing helps accentuate the lamp while improving its durability. Compatible with Jeep Wrangler 1997-2017 Affordable Headlights Clear goals Reported wiring issues If you own a Jeep Wrangler XJ or YJ, you were probably looking for the best replacements for factory headlights. Many replacement headlights are a bit pricey, but thankfully the 2018 New Osram Chips LED Sealed Beam Headlamp is a cheap choice. They are designed for maximum performance; the lights are relatively brighter and longer lasting than other headlights. Even with brightness, sharp, straight cutting prevents them from blinding other drivers. This is perfect for both busy and lonely roads as on-arrival drivers will see the light from afar and won't be affected by the brightness. The installation process is quite simple for users who like to replace things themselves. With the simplified plug and play process, setting up headlights should not take more than 30 minutes. All you need to set the lights are the pair of headlights and an H4 socket. To avoid undue flickering, a printed circuit board is included to prevent power outages. It provides 6000K clear white light from both sets for an improved and safe driving experience. Fits all types of cars with 5×7-inch square headlights Comes with cuts A soft Furniture warranty Without anti-fog system These headlights are another phenomenal set that's easy to install. You don't have to be an expert to connect them without professional help. What the JW Speaker 8700 J2 Black Headlights Pair has on the competition is dual-burn technology. It provides an extra dose of light bringing the high and low beam to provide extra dazzling light. When users switch to high beam light, the low beam light is maintained to provide more light. This also provides a wider ray of light for users who are ready for an improved glow experience in the dark. With a color temperature of 5000k, it also provides clear white light every time the headlights are turned on. In incredibly cold regions or low temperate seasons such as winter, weather can pose challenges to headlights. This is because fog and icy situations pose a danger as foggy or icy headlights will blur a driver's vision. Fortunately, these headlights come with smart heat technology that ensures the lens dis-ices better than other headlight brands in its class. They work with temperature variations to adjust appropriate heating systems. When the temperature drops, the heater goes up to melt the ice. When the temperature rises, this system shuts down without any action taken by users. The sturdy molded hard aluminum casing provides a much-needed durable exterior that protects the headlights from excess dust and moisture. Polycarbonate lens offers longer life Wide, which includes light light de-glaze lens for snow accumulation It is on the expensive side Works with a limited number of Jeeps They are not available with mounting rings LED headlights with RGB rotation Halo Brightness Adjustment Remote work with Jeep, a good number of cars and even some motorcycles. Beautiful halogen lights help improve the glow of the lighthouse on the road. These Halo lights replace halogen and HID headlights, and the main projector is positioned a little lower on the lamp. This prevents other drivers from blinding while offering great performance on the road. Jeep halo lights are protected by a durable aluminum casing that prevents dust and moisture from entering. One of the highlights of these Jeep Wrangler headlights are the built-in smart controls. Users have control over some adjustable actions through their smartphones. With a workable Bluetooth connection, you can adjust the brightness level, the time and flashing function, as well as the rotation. Setting the headlights is also quite simple with the H4 and H13 adapters provided. The easy plug-in and play makes installation hassle-free. The built-in canbus delivers flicker-free performance throughout the journey. This eliminates the need for an additional decoder. Long life of 50,000 hours Illuminates the road up to 150 meters Internal cooling fan to expel heat The setting of the colors of the halo can a bit challenging Information not enough about the instruction manual Sometimes the bulbs do not last long due to circuit problems and other problems. The 85W Xprite 7 Inch LED headlights for Jeep Wrangler are light bulb-free, ensuring the headlights remain intact regardless of sudden shocks or vibrations. The advantage for is his pure and crisp night vision. These lights appear to be relatively brighter than many Jeep Wrangler headlights. It adequately imitates the color of daylight and provides wider light coverage. While driving, it is important that the light covers a large part of the road. The more you can see, the better. These headlights project light across the street, giving users a clear advantage and insight into what's before them. These headlights are also coated with a hard aluminum casing that is integrated for durability. It efficiently prevents rust and moisture and also hinders the ingress of dust. The polycarbonate lens is equipped with four different settings and light colors. The ribbed design incorporates a cooling system that easily dissipates heat to avoid overheating. It also provides a light and strong shape. Light and weatherproof aluminum body with cooling system Halo lights are relatively brighter than other 50,000-hour headlights No fog light configuration including Problems with passenger sidelights These attractive looking Halo lights are one of the best Jeep Wrangler headlights. The beautiful all-black design gives a fresh and classy look compatible with various models and colors. The Omotor Jeep Wrangler Halo 7 LED headlights are equipped with white LED lights and RGB Halo with explosion-proof properties. Multi-directional headlights allow users to adjust certain settings via a smartphone. This smart feature incorporates multicolored micro-LEDs into a single top light. This offers brighter, stronger and more refined light. The app on your phone wirelessly controls colors, speed, brightness, and strobe, and will also sync the music you're listening to with RGB lights for extra cool effects. In addition, the lightweight aluminum casing provides a protective layer without being too heavy on the shape. This high-performance waterproof, dust proof and anti-bumper light can also be used for other functions. It can be used as a fun alternative during camping, decorating or partying. They would also make large backyard lamps, yacht lights and the like as the 5D lens helps project light beyond normal headlights. All as a whole, these lights definitely help you go far. Compatible with a wide range of 50,000 plus Lifespan off-road vehicles Lifespan Halo lights look good both in daylight and at night It may not be legal for road driving Inappropriate user information No anti-fog system Jeep Ovotor 7 LED headlights with Halo Ring carry or are intensified with their extra-visual light. A unique design of type has also been incorporated This design consists of daytime running light and halo angel eyes turning signals. Installation has also been simplified, allowing non-experienced users the ability to D-I-Y. Simply connect using an H4 connector; the red wire connects to the white TYPE V DRL while the connects to the turn signal lights. No additional decoder or canbus is required as the built-in anti-flicker harness is very reliable. Another advantage for these headlights is the wide range of compatibility. These lights fit most vehicles with a round 7-inch headlight. Even for users who need Jeep JK headlights, this is a compatible option. The durable aluminum housing is robust but light enough to dissipate heat. To improve this function, a respiratory mouth was included to properly prevent overheating. Not only does it release heat, but it also expels moisture and water that may get trapped inside the projector. Over 50,000 hours duration Efficient heat dissipation Work in adverse weather conditions may need to be modified to fit perfectly with inconsistency with driver's and passenger seat headlights LEDS project headlights are a bit too high These 7-later headlights have phenomenal features that any on/off-road vehicle should take advantage of. The 7+ 4 RGB Fog Lights Suparee headlights for Jeep Wrangler incorporate both a projector and fog lights and are ready with a DC up to 10-30V provides a 3600k high beam and a 1800 low beam. They are excellent substitutes for halogen and HID headlights. Not only do they work better, but they are much easier to maintain. The use of dim and unreliable factory lights certainly affects the vision of drivers, especially in adverse weather conditions where everything is already quite dim. That's why the brightest headlights are the solution for a more exciting road experience. Hit those ramps and visit exciting places with headlights that won't stop your shine. With blazing Halo eyes, these headlights offer up to three times more intense than regular stock headlights. Multiple adjustable functions Duration up to 50,000 hours Compatible with a good range of Jeep cars Poor installation instructions Requires the installation of an additional adapter The headlight of the 7-inch Philip Led projector is another convenient replacement option. Affordable options like the Cowone are made from durable materials and are built to last a long time. These headlights are made in strict compliance with industry rules, which ensures that this product is a top-notch product worthy of competing with other headlights in its class. The impact-proof and waterproof properties ensure that these Jeep Wrangler headlights still work at maximum performance even in adverse weather conditions. The Cowone boasts relatively brighter light and a significantly higher cut that prevents light from spotting on-the-go drivers. These they also provide a significantly clear focus on the road and what awaits us. Despite its affordable price, this is one of the most advanced 7 lighthouses you'd discover out there. They are designed for night driving on the road/off-road and offers the advantage that every driver should enjoy on the Compatible with a good range of vehicles Almost three times brighter than standard lights More than 50,000 hours of service life Poor light distribution Brightness can be overrated 7 75 W Cree Xprite LED headlights for Jeep Wrangler with DRL are another great option. Xprite is known for its superior quality products and this model is no different. With a DOT-approved Led Cree chip, this beacon is brighter than the halogen stock and HID options. Advanced daytime operating lights still offer optimal performance at high and low beam. Projected attention also covers a large part of the road, illuminating the drivers' path. Even from a distance the light is able to cover safe ground and gives the driver the advantage of seeing later. The three lighting modes incorporated into the design also give users the ability to switch between low/high beams and DRL, while the durable die casting aluminum casing ensures the lamp is properly sealed. This prevents dust and moisture from entering and tampering with the efficiency of the headlight. Polycarbonate lenses provide a more durable lens, while the ribbed design works perfectly for cooling. Overall, the design is pretty light and weatherproof. Over 50,000 hours of durability Coastal design for proper cooling 3 lighting modes May incoming blind drivers Low beams are still extremely bright Spotlight focus instead of a wider range Replacing stock headlights could be one of the most important decisions for you. As the owner of Jeep Wrangler, the options are extensive. Before jumping on the new headlight train there are a few things you should consider. What to consider when buying LED lights for Jeep Wrangler An anti-flicker harness: since you are replacing headlights, they must be available with a system that prevents flickering due to new connections. The connection may not be 100% perfect and sometimes this causes current outages. A good harness will prevent the current from tripping off and on the lights keeping it stable all the time. The materials used in the production of headlights are very important. These determine how durable and lasting unity will be. Good quality materials should facilitate waterproof, dust-proof and bump-proof operation. The installation process is important especially if you plan to configure it yourself. Usually, a plug and play system is the easiest as it involves very little hassle with the necessary hardware and equipment. Some headlights have an adapter that helps to easily connect the headlights to the source. There should be a well-detailed guide to users through the process. You should also know if you will need an H4 wiring or an H13 plug. Before you go ahead to buy the headlights of your dreams, it is important to know the adaptation. Some headlights are only compatible with a range of cars. It is only wise to check which the headlights are compatible with and what is needed to install them. This will save you time and money. Why should you invest in new Jeep LED headlights? Headlights can be available in various designs and features, but mainly they should provide better night vision. Users go out at night for several important reasons. Not all areas have functional or sufficient streetlights. An efficient beacon should be bright enough to show users the way forward. This will also help on-arrival drivers see your car from afar. Unreliable Jeep Wrangler headlights It is known that while the Jeep Wrangler car series makes a wonderful collection, they are missing in the headlights departments. The lights are dim, unreliable and non-durable. The best way to ensure a convenient off-road driving experience is to replace them with larger options. LED headlights are an incredible improvement over regular stock headlights. They provide brighter, more intuitive and longer-lasting lighting for intelligent drivers. It's not a myth that headlights are a vital part of your car. This is why you may be stopped for broken or unreliable headlights. Good quality headlights provide lighting drivers with the need to prevent accidents. Especially on lonely or off-road tracks. Bright headlights would alert passers-by and other vehicles or bicycles you're coming. It will also be easier to see what awaits you and avoid accidents. How to install Jeep Wrangler LED headlights? Release the hood hatch by unhooking the side retainer Remove the screws that hold the front grilles, then remove the grilles to access the Do this headlights by placing one hand at the base of the grid to pull it out and the other hand to pull it out. Remove the metal screws that keep the casing intact. Exempt the casing and unplug the headlights. Replace it with 7-inch LED lights reposition things in the exact same format you disengaged them in. The best frequently asked questions about Jeep Wrangler headlights: Q: How can I adjust Jeep LED headlights? A: To properly adjust the Jeep Wrangler LED lights, cut a piece of adhesive tape and thread it 3 feet from the ground in front of the parked car. The headlights must be turned on and pointed over the tape. Use a compatible driver to adjust the screw positioned at 10 o'm. Screw counterclockwise until the light drops under the tape. Repeat this process for the driver's side headlights. The only difference on this side is that the screw is at 2 o'a.m. Q: How long do LED lights last? A: LED lights last longer than normal halogen lights because they emit less heat. Depending on the brand, good LED headlights should last an average of 30,000-50,000, which is 3-5 years old. Q: Do LED headlights have less energy? A: LED lights consume less power, this is great for your Jeep Wrangler as it would have retained battery power and extends lifespan too. Our best choice in case of doubt, opt for 7-approved BLACK LED headlights DOT + Cree LED fog lights of 4. They are high-performance Cree headlights with clear, crisp white light projection. They are easy to install and come with an integrated EMC to ensure flickering. Enjoy more than 50,000 hours of pure, high-performance LED light. Sources: How long do the headlights last? - HowStuffWorks Add your automotive advice and products assessment

