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# The Dobsonian Telescope A Practical For Building Large Aperture Telescopes

**dobsonian telescopes | orion telescopes: shop** - more about dobsonian telescopes the dobsonian is a simple, low-cost telescope design popularized by san francisco amateur astronomer john dobson in the 1970s. it consists of a newtonian tube assembly riding on a simple, wooden altazimuth base. **introduction to the dobsonian telescopes** - introduction to the dobsonian telescopes one type of telescope that students in the astronomy class frequently use is a 10 - inch dobsonian telescope. these telescopes are medium-size, as amateur telescopes go (the amateur rage would be 4 to 20 inches in diameter); they are mechanically simplified for low price and ease of use. **plans for a dobsonian telescope - scope making** - plans for a dobsonian telescope 150 mm mount 200 mm mount at this point, you can also buy the tube, and the altitude bearings. for this telescope, you need a pvc drain tube. if you have a 150 mm f8 mirror, a 200 mm od tube is needed. unfortunately, the standard sizes are 1 and 2 meters in length. **how to build a dobsonian telescope - projectsplans** - plans for building a dobsonian telescope brought to you by: the san francisco sidewalk astronomers yes, it "looks like a cannon," but the above is really a ten-inch (measured by the diameter of the objective) newtonian telescope that almost anybody can build. **engineering lightweight dobsonian telescopes- 2013 update** - john dobson really started something with his dobsonian "dob" telescope design. he enabled the average amateur telescope maker "atm" to create a large and very stable telescope with common workshop tools. since then dob's have evolved from a heavy boxy structure to elegant lightweight designs with truly excellent optics. **instruction manual lightbridge plus truss tube dobsonian ...** - never use an unfiltered telescope to look at the sun! looking at or near the sun will cause instant and irreversible damage to your eye. eye damage is often painless, so there is no warning to the observer that ... using the dobsonian telescope. ... **plans for building an 18inch f4.4 dobsonian telescope.** - the following pages detail the complete set of plans for an 18" dobsonian based upon dave kriege and richard berry's excellent book. page 2 - book p117 - mirror flotation system and cell. page 3 - book p123 - detail of flotation system triangles and bars. page 4 - book p157 - secondary cage assembly page 5 - book p221 - split-blocks. **the perfect telescope - davetrott** - you can build this telescope this is a six inch dobsonian reflector. many ordinary people have built simple telescopes like this. see my homepage at davetrott for pictures of a few of them. **telescope technology the new dobsonian revolution** - the new dobsonian revolution the simplest telescope undergoes a high-tech redesign. by michael e. bakich since the 1960s, when dobson introduced his design, amateurs have found this type of scope easy to make. rick singmaster, owner of starmaster portable telescopes, shows off two telescopes that helped launch the new dobsonian revolution. **dob driver ii by tech2000 by john crilly click to email author** - dobsonian mount is the equatorial platform. these platforms are slightly tilted plates mounted on offset bearings which permit them to swivel through an arc appropriate to cause the telescope to move equatorially. the dobsonian mount is simply placed on top of the platform. the advantages to such platforms include **owner's manual dobsonian telescope - raleigh astronomy club** - with any telescope, zhumell telescopes require some technical knowledge of stellar movement and optical properties. we have provided basic instructions for telescope use and astronomical viewing in this manual. your zhumell dobsonian telescope is built with the highest-quality optics and top-notch construction to provide years of reliable **orion skyquest xt6 & xt8 dobsonian reflectors** - the unassembled dobsonian base. be careful unpacking the boxes. we recommend keeping the original shipping containers. in the event that the telescope needs to be shipped to another location, or returned to orion for warranty repair, having the proper shipping containers will help ensure that your telescope will survive the journey intact. **visual observing what to know - sky & telescope** - visual observing: what to know before you buy skywatch 2010 • 25 planets when the seeing allows. and though a galaxy may not look great through a big scope from a suburb, it looks better than **owner's manual dobsonian telescope** - with any telescope, zhumell telescopes require some technical knowledge of stellar movement and optical properties. we have provided basic instructions for telescope use and astronomical viewing in this manual. your zhumell dobsonian telescope is built with the highest-quality optics and top-notch construction to provide years of reliable **orion skyquest xti intelliscope dobsonian telescopes** - please read these instructions thoroughly before beginning assembly and subsequent use of the telescope. 1. unpacking the telescope is packed in two boxes (three for the xt12i), one containing the optical tube assembly and accessories, the other containing the unassembled dobsonian base (the third box for the xt12i includes the mirror and cell). **review of the meade lightbridge 16 inch deluxe dobsonian** - review of the meade lightbridge 16 inch deluxe dobsonian (by jan van gastel) dutch version (nederlandse versie) this is a test report of a meade 16 inch lightbridge. the telescope looks very nice (photo 1). but what's more important is how it works. that's what this test is about. photo 1: assembled 16 inch meade lightbridge **instruction manual orion skyquest xt10 dobsonian reflector** - the unassembled dobsonian base. be careful unpacking the boxes. we recommend keeping the original shipping containers. in the event that the telescope needs to be shipped to another location, or returned to orion for warranty repair, having the proper shipping containers will help ensure that your

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telescope will survive the journey intact. **tubes for reflecting telescopes** - tubes for reflecting telescopes by: jeff beish, a.i.p.o. mars section (31 may 2017) introduction it is no secret that many amateur telescopes take excessive time to equalize with the surrounding air, or cool down, so to speak. it is important to remove heat from components within the telescope to allow air in the optical path to stabilize. **by mark m. marcotte deep-sky-object hunter - astronomy** -///by mark m. marcotte deep-sky-object hunter ... and amateur astronomer who observes from lubbock, texas. take meade's truss-tube dobsonian, the ... to find a truss telescope, you **01-lx-200 rev f - meade instruments telescopes, solar ...** - that the telescope has not been badly jarred out of collimation, and to perform the final fine-tuning of step 4, below. fig. d shows a correctly collimated lightbridge dobsonian telescope, as it appears when viewed through the focuser with the eyepiece removed. to check and, if necessary, set the optical collimation, follow these steps: 1. **hardin 8" deep space hunter - cloudy nights** - responsible for this asian dobsonian invasion - synta and guan sheng optical. in this article we'll discuss the 8" hardin deep space hunter (gso). the good folks at dba astronomy products (dale penkala of auburn, mi) provided cloudy nights with a sample for review. mechanics and assembly **obsession telescopes specifications english (imperial) on ...** - to order an obsession telescope. we ship throughout the world via ups. call, fax, or email for specific delivery information. side bearings d b c a mirror box rocker base lower assembly (classic obsessions) obsession telescopes po box 804 lake mills, wi 53551, usa 920-220-1195 obsession telescopes specifications mirror box weight weight ... **visio-dobsonian telescope 6-inch f8 design - blueprint (us ...** - newtonian telescope 6-inch f/8 dobsonian mount january 12, 2009 size fscm no dwg no rev scale 1/4 : 1 sheet 1 of 9 h g f e d c b a 8 7 6 5 4 3 2 1 h g f e d c b a 8 7 6 5 4 3 2 1 top front side metal 90 degree angle bracket (x2), slightly bent to match brace angle **this new dobsonian-mounted telescope offers a pleasing ...** - this new dobsonian-mounted telescope offers a pleasing design, great optics, and a computer-pointing option./// by adrian r. ashford ... • dobsonian mount • 2" rack-and-pinion focuser **voyager 8 inch dobsonian telescope model 78-8000** - dobsonian base making certain that the altitude bearings (3) come to rest in the semi-circle cradles on the side panels of the dobsonian base. note: the finderscope (8) should be on top of the reflector telescope body (2) and the bushnell® logo should be upright. 6. move the dobsonian telescope assembly in both directions (up and down, and ... **instruction manual orion skyquest xt4.5 dobsonian reflector** - the telescope will arrive in two boxes, one containing the optical tube assembly and accessories, the other containing the unassembled dobsonian base. be careful unpacking the boxes. we recommend keeping the original shipping contain-ers. in the event that the telescope needs to be shipped to **"your new telescope - the good, the bad, and the ugly"** - "your new telescope - the good, the bad, and the ugly" ... • dobsonian mounts. parts (continued) - drive mechanism • if your telescope can track the stars, it has a precision set of gears that move the telescope. ... telescope should be tightened and checked frequently. **turning a 16-inch portable telescope into a research facility** - use of the dobsonian and 0.4m main telescope, effectively doubling the power of the observatory. the data taken thus far shows that the st402 mounted on the dobsonian is comparable to the main telescope and its camera. the data taken from a single 6.00s exposure suggests the possibility of viewing exoplanet transits. **orion skyquest xt4.5 dobsonian reflector** - the unassembled dobsonian base. be careful unpacking the boxes. we recommend keeping the original shipping con-tainers. in the event that the telescope needs to be shipped to another location, or returned to orion for warranty repair, having the proper shipping containers will help ensure that your telescope will survive the journey intact. **instruction manual - storage.googleapis** - instruction manual is accurate and complete, no liability can be accepted for any errors or omissions. sky-watcher telescope reserves the right to change the specifications of the hardware and software described herein at any time without prior notice. please always check our web site to obtain the latest information: **orion skyquest xt6 classic, xt8 classic & xt10 classic** - the unassembled dobsonian base. be careful unpacking the boxes. we recommend keeping the original shipping contain-ers. in the event that the telescope needs to be shipped to another location, or returned to orion for warranty repair, hav-ing the proper shipping containers will help ensure that your telescope will survive the journey intact. **orion skyquest xx14i intelliscope truss tube dobsonian** - 3 congratulations on your purchase of an orion® skyquest™ xx14i intelliscope® truss tube dobsonian. it's a deep-sky observer's dream telescope, offering jumbo 14" parabolic optics; an orion-engineered collapsible base outfitted with intelliscope object **practical calculations for designing a newtonian telescope** - practical calculations for designing a newtonian telescope jeff beish ( rev. 05 august 2016 ) introduction a newtonian reflecting telescope can be designed to perform more efficiently than any other type of optical system, if one is careful to follow the laws of nature. one must have optics made from precision pyrex or a similar material **explore scientific truss dobsonian - 10" to 16" : encoders ...** - explore scientific truss dobsonian - 10" to 16" : encoders installation specifications: altitude encoder resolution: 10" - 304000 steps per revolution ... position the telescope vertically. now you need to use a pencil to mark the start of the magnetic tape - it should be approximately 10-15mm (~1/2") from the right side of the ... **optronic skyline dobsonian telescopes - alarcón web** - to move the telescope, you simply grasp the front end of the tube and move the scope where you want it to point. simple! telescope balance the optical tube on a dobsonian must be balanced for proper operation. if the tube drifts up or down when you let go of it, that means the tube is bottom-heavy or top-heavy, respec-tively,

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and needs to be ... **the dobsonian telescope: a practical manual for building ...** - the dobsonian telescope: a practical manual for building large aperture telescopes, 1997, 475 pages, david kriege, richard berry, 0943396557, 9780943396552, willmann-bell, 1997 **build your own 4.25 dobsonian telescope - the eye** - excellent first telescope and a useful portable addition if you already have a larger telescope. this manual can be used also as an educational tool to teach students, club members, and the general public how easy it is to build a telescope. people who look through one of these little 4 1/4" reflectors for the first time are amazed at the **robotic telescopes in education - arxiv** - robotic telescopes in education gomez, e.l. & fitzgerald, m.t. figure 1: examples of early telescope education projects. the left-hand gure (l) shows the 14" raap telescope at uc santa barbara. the right-hand gure (r) shows the 24" telescope at mt. wilson used by the telescopes in education project. **lending telescope collection dobsonian telescope ...** - lending telescope collection . dobsonian telescope instruction manual . warning: never look directly at the sun through any telescope or finder scope -even for an instant - as permanent eye damage could result. do not point the telescope at the sun, as parts will melt. **astronomical tools - astro-tom** - • the simplest amateur astronomy mount: the dobsonian mounting. this is mount is usually used with a newtonian telescope. "three hundred years of telescope designs... but it took john dobson, to figure out that we could aim telescopes simply, like a cannon!" rotation about the base is "azimuth" rotation about the side pivot is ... **measuring double stars with a dobsonian telescope by the ...** - measuring double stars with a dobsonian telescope by the video drift method and the tracking motors are turned back on to avoid los-ing the stars. current practice is to repeat this process for 3 or 4 "drifts" for each target double star, although for the early observations shown later, only one or two drifts were recorded. **kosmos w zasięgu ręki - taurustelescopes** - lish production dobsonian telescope taurus t400 classic. the telescope comes in three custom-made covers made of durable fabric „codura" with foam pads. in the long sleeve the - re are truss tubes, and in the characteristic „crescent" we can find altitude bearings, with a nice accent in the form of a sepa-rating insert. **astro-tech 8" & 10" dobsonians - astronemics** - astro-tech 8" & 10" dobsonians from astronomy technologies assembling your astro-tech dobsonian you will need a phillips-head screwdriver to assemble a few components of your scope. the hex head wrench needed to assemble the majority of the scope components is included with your telescope. first, assemble the rocker box **orion skyquest intelliscope xt6, xt8, xt10** - the unassembled dobsonian base. be careful unpacking the boxes. we recommend keeping the original shipping contain-ers. in the event that the telescope needs to be shipped to another location, or returned to orion for warranty repair, hav-ing the proper shipping containers will help ensure that your telescope will survive the journey intact. **dobstuff's lightweight dobsoniankits** - book,a telescope is a space shipcord-ingtooverholt,thefirstparallel-struttel-escape to make a splash in the stargazing-public consciousness was jim steven'sfour-strut,17.5-inchdobsonian. ... dobstuff's lightweight dobsonian kits astronomy technology today ... **dobsonian telescopes - ftplvh.levenhuk** - telescope assembly dobsonian telescopes levenhuk ra en congratulations on your purchase of a high-quality levenhuk telescope! these instructions will help you set up, properly use, and care for your telescope. please read them thoroughly before getting started. all parts of the telescope will arrive in one box. be careful when unpacking it. **by: ken diller, bas member september 21, 2011** - newtonian telescope origination in 1668 while attempting to improve telescope designs, sir isaac newton made 1st newtonian telescope 1 3 inch f/5newtonian telescope, 1.3 inch f/5. in 1672, 2nd telescope presented to royal society of london. his telescope mirror was made with a spherical metal mirror (tin & copper). **orion skyquest xtg goto dobsonians** - assembly and subsequent use of the telescope. 1. unpacking the telescope is packed in two boxes, one containing the opti-cal tube assembly and accessories, another containing the unassembled dobsonian base. the 12" model has a third box containing the primary mirror in its cell. be careful unpacking the boxes.

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