Doorking 9050 Manual

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Book Descriptions:

Doorking 9050 Manual

Vehicular Slide Gate Operator. Use this manual for circuit board 4702010 Revision A or higher.DoDoReInglHzCircuit Board. Serial NumberPhone Number. Leave Manual with Owner. Copyright 2013 DoorKing, Inc. All rights reserved.Copyright 2009 DoorKing, Inc. All rights reserved.Type of Gate. UL 325 Class I. Vehicular Slide Gates Only. HorsepowerCurrent. Max Gate Weight Installed level. Max Gate Length Installed levelDrive Sprocket Size. Cycles Per HourSpeed. Approximately 1 Ft. per Second. Entrapment Protection. Primary Inherent entrapment sensing system Type A. Secondary Provision for connection of a noncontact. Gate Frame. Use this manual for the Model 9050Rev A or higher ONLY.Do not allow children to play in gate areaDo not stand in gate path or walk throughRead owner's manual and safety instructions.Chain Height. Idler wheels inPadConcrete. Pad. DoorKing, Inc. reserves the right to make changes in the products described in this manual without notice and without obligation of DoorKing, Inc.Additionally, DoorKing, Inc.This manual is copyrighted, all rightsHard ShutdownFailSecure Manual Release System Owner Installed. Emergency Vehicle Access ConditionsSlide Gate Requirements. The operator is intended for installation only on gates used for vehicles. Pedestrians must be supplied with a separateLocate the gate such thatAdjacent fence that covers open gate position.All openings of a horizontal slide gate areClosed Gate. Rollers. Gate Support Post. Note InstallHigh Risk of Entrapment AreaScreened Wire Mesh. Note A filler post orA contact sensor shouldA gap, measured in the horizontal plane parallel toGate Frame. Gate Frame and Adjacent Fence AreaGates shall be designed, constructed andGuideEntrapment protection devices are required to reduce the risk of injury. Install sensors where the risk of entrapment or obstruction exists whileSee pages 2427 forPhysical Stops.http://www.adbagroup.com/E/88-yamaha-razz-manual.xml

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Positive stops shall be requiredHelps minimize the potential of entrapment during the backA filler post orGuide Rollers. Moving Gate Can Cause. Serious Injury or Death. See previous page for more information. KEEP CLEAR! Gate may move at any timeDo not let children operate the gate or playThis entrance is for vehicles only. Pedestrians must use separate entrance.Warning Signs. Separate. Pedestrian. WalkwaySerious Injury or Death. Fence. Permanently mounted and easilyLoop. NonSecure Side of Gate. Reverse. Loop. Closed GateSecure Side of Gate. Automatic. Exit Loop. May be necessary on partSee previous page for moreWarning SignScreened. Wire MeshIt can be installed on theHigh Risk of Entrapment Area. NonContact Sensors Photo SensorsKEEP CLEAR! Gate may move at any timeDo not let children operate the gate or playThis entrance is for vehicles only. Pedestrians must use separate entrance. Physical Stop. Located so pedestriansVehicular gates should be constructed and installed in accordance with ASTM F2200; Standard Specification for Automated. Vehicular Gate Construction.Important Safety Instructions. WARNING To reduce the risk of injury or deathKeep the remote control away from children.The gate MUST reverse on contact with a rigid object or stop or reverse when an objectAfter adjusting the force or the limit of travel, retest the gate operator. Failure to adjustHave a qualified service person make repairs to gatePedestrians must use separate entrance.Pedestrians must be supplied with a separateLocate the gate such thatSwinging gates should not open into public access areas.Activation of the reset control

shall notA wireless contact sensor shall functionImportant Notices. Vehicular gate operator products provide convenience and security. However, gate operators must use high levels of forceThese hazards may include. In addition to these potential hazards, automated vehicular gate systems must be installed in accordance with the UL 325.http://diagcorlifescience.com/attachment/88-91-civic-service-manual.xml

Safety Standard and the ASTM F2200 Construction Standard. Most lay persons are unaware of, or are not familiar with,Be sure that the installer has instructed you on the proper operation of the gate and gateBe sure that the installer has trained you about the basic functions of the required reversing systems associated with yourThese include reversing loops, inherent reversing system, electric edges,Keep it in a safe place for future reference.Install speed bumps and signs to keepFailure to adhere to posted speed limits can result inIf any of these devices areClass I. Class II. A vehicular gate operator or system intended for use in aA vehicular gate operator or system intended for use in aClass IV. A vehicular gate operator or system intended for use in aA vehicular gate operator or system intended for use in aThis table illustrates the entrapment protection requirements for each of the four UL 325 classes.Horizontal Slide, Vertical Lift, Vertical Pivot. Secondary Protection. Primary ProtectionA or C. A, B1, B2, C or D. Class III. A, B1 or B2. A, B1, B2, D or E. A, B1, B2 or C. Class IV. A, B1, B2 or D. A, B1, B2, C, D or E. Class I and II. Primary Protection. Swing and Vertical Barrier arm. A Inherent entrapment protection system. B1 Provision for connection of, or supplied with, a noncontact sensor photoelectric sensor or the equivalent. When used as the PRIMARY device, must be monitored. B2 Provision for connection of, or supplied with, a contact sensor edge device or the equivalent. C Inherent adjustable clutch or pressure relief device. D Provision for connection of, or supplied with, an actuating device requiring continuous pressure to maintainE An inherent audio alarm.

GATE A moving barrier such as a swinging, sliding, raising, lowering, or the like, barrier, that is a standalone passageRESTRICTED ACCESS VEHICULAR GATE OPERATOR CLASS IV A vehicular gate operator or system intended for use inVEHICULAR BARRIER ARM OPERATOR OR SYSTEM An operator or system that controls a cantilever type device orVEHICULAR HORIZONTAL SLIDEGATE OPERATOR OR SYSTEM A vehicular gate operator or system that controls aVEHICULAR SWINGGATE OPERATOR OR SYSTEM A vehicular gate operator or system that controls a gate whichSYSTEM In the context of these requirements, a system refers to a group of interacting devices intended to perform aWIRED CONTROL A control implemented in a form of fixed physical interconnections between the control, the associatedWIRELESS CONTROL A control implemented in means other than fixed physical interconnections such as radio waves orINHERENT ENTRAPMENT PROTECTION SYSTEM A system, examples being a motor current or speed sensing system,EXTERNAL ENTRAPMENT PROTECTION DEVICE A device, examples being an edge sensor, a photoelectric sensor, orENTRAPMENT The condition when an object is caught or held in a position that increases the risk of injury.This will help insure that your installation isThe proper installation of the vehicular slide gate operator is an extremely important and integral part of theCheck all local building ordinances and building codes prior to installingGood hardware is essential for proper operation of a sliding gate. DoorKing has a full line of gate hardware products that willThe gate must be properly installed and roll smoothly in both directions. Roller Bearing VWheelsGuide Rollers with. Protective Covers HelpsEndless Idler Assembly with. Protective Cover Helps toGate End Retainer Helps stabilizeThis can be theChain stops DO NOTGate End Retainer. Rubber bumper faces towardChain Stops. End. Post. GaThe Model 9050 operator is designed to be installed on these gate types.

http://ninethreefox.com/?q=node/16026

See the next 4 pages forIndividual installations and physical stops can vary.CaDoReadInc. Inglewood,Fro stopsChF rsDoReadInc. Inglewood,The Model 9050 operator is designed to be

installed in the front, rear, center or ceiling mounting positions shown on this pageVwheel Vrail ornamental gates are shown as examples but other gate types on the previous page canOnce the mounting position has been determined, the chain idler wheels may need to bePhysical stops MUST be used in the open AND close positions for ANY gateFront Position with Concrete Pad. Standard method of installation. Chain SetupTop View. Chain Idler. Wheels. Chain. Stop. A filler post or barrier may need to beFront Position with Post Mount. Raises operator and allows different chain heights. Chain Setup. Gate End RetainerBase Plate. Stop Bracket. Additional hardware required. Top View. Gate End RetainerGate End. RetainerHides the chain from outside the property looking in. Chain SetupChain Idler. Additional hardware required.A filler post or barrier may need to beTop View. EndIdleSee page 18 forRear Position with Post Mount. Hides the chain from outside the property looking in. Additional hardware required.Hides the chain from outside the property looking in. SetupChain Idler. Endless idler. Gate in Open Position. GaRe EndEnd. A filler post or barrier may need to beNote Chain stops CANNOT be used for this installation. End post with a gate end retainer must be installed asGate in Close Position. EnIdl essPoEndIdle ssSee page 18 forCan be mounted on the ceiling to conserve floor space. CeilingChain Setup. Note There are NO fluids in the operatorChain. A filler post or barrier may need to beOperator. BottomPrimary. Operator. Position. Secondary. PositionLoop LeadIn Wires Low Voltage wire insulation. Concrete. AC Input Power High Voltage wire insulation. SweepsThe conduit requirements for your application may vary fromSweepMUST be level.LockElectronic Box. Center. Underground depth of theConcrete Pad.

Conduit. Post Mount with ConduitConduitConduitBase Plate. Concrete FoundationBase Plate. MUST be level.Note Weld the posts to the base plate and mountUnderground depth of theConcrete Foundation. Pad, Post or Ceiling Mount Connected with Junction Boxes. All wire connectionsDo not allow children to play in gate areaOperator MUSTRead owner’s manual and safety instructions.Conduit. Low. Volt. Pad, post orHigh. VoltHigh. VoltNever run highFailSecure. Key Lock. Conduit KnockOut Sizes. ConduitPrior to mounting the operator, be sure that the correct chain knockouts have been removed and chain idler wheels are in theFailSecure Manual Release Kit Installation Note It is easier to install the 2600862 failsecure manual release kit beforeRefer to the instruction sheet supplied with the kit for installation. Positioning Operator and Chain BracketsChain. Bracket. Lines upWheelsChain Idler Wheels. Operator NOTChain bracketsCorrect. HeightFrame. Correct. Height. Chain Bracket. Attaching OperatorDoorKing recommends aChain bracketOp. Connect Chain BracketOp. NutMa inkConnect Chain to Chain Bracket. Lock. Washer. WashersConnect chain to chain bolt withDo not over tighten the chain.Make sure the endless idler assembly is securely fastened to the wall or post Depending on which type of installation will beCenter and Rear Mount Positions Top ViewOperator. Idler Wheel. Lower chain MUSTChain BracketsIdler. Center Mount Position Side View. Operator Idler Wheel. Lower chain does NOT align with upper chain. Note Be sure that the chain is aligned andInstalling the chain in anyLower Chain. Lower chainChain. ReturnBracket. Lower chain MUST beIdler. Lower chain mounted. Too Low. Gate Rail. Rear Mount Position Side ViewOperator Idler Wheels. Lower Chain. Return. Endless. Idler. Lower chainUpper and lower chain. MUST be the sameLower chain mounted. Too Low.This DoorKing Slide Gate Operator is shipped with two warning signs.

The purpose of the warningSee page 5 for suggested mounting positions of signs.It is recommended that aSince building codes vary from city to city, we highly recommend that you check with your local building department priorIf power wiring is greater than the maximum distance shown, it is. Never run low voltage rated wire insulation in theWhen large gauge wireDual 9050’s, Single Power SourceDual OperatorsAC Power. AC Power. DO NOT power up and cycle theDamage could occur toUse the wire restrainers insideMOV HelpsAC Power TerminalHot. Neu. Chassis. Ground. White Neutral. Black 115 VAC Hot. Green Chassis. High Voltage. AC Power Wire. External Power. Disconnect Switch. A separate power disconnectConduit. Every time the operator is powered up, the

First open command will automatically run “MultipleEvery time the operator is powered up, the First open command willLoop Detector See page 27.Exit Loop Port. Reverse Loop PortPage 24Normally Closed NC operationSee next page and page 28. SelfTest Mode. Do not run selftest withSelfTest ModeNormal ModeRev H. See switch settingDIPSwitch options.DIPSwitches. Typical setting shown.Single ChannelLEDs will blink asInherent Reverse Sensor. Adjust reversing sensitivity. Full counter clockwise forMin Max. SensitivityThe DIPswitches located on the circuit board are used to program the operator to operate in various modes and to turn on orWhenever a switch setting is changed, power to the operator must be turned OFF and then turnedCheck and review ALL switch settings prior to applying power to the operator. Every time the operator is powered up, the First open command will automatically run “MultipleSwitch. Function. Setting. Description. FrontMountTimerSolenoid Lock. OpeningOpeningCenter or. Mounts. OpeningOpensAll Rear. All Rear. Left. RightOpensOFF Autoclose timer is OFF. Manual input required to close gate. ON Autoclose timer is ON. Adjustable from 123 seconds to close gate. OFF Relay is activated when gate is full open.

ON Relay is activated when gate is not closed. OFF Normal Setting. FailSafe Factory Set. Lock engages only when an attempt isON FailSecure. Lock engages after each cycle. CAUTION Do not use this setting unlessGate Open. BackOff. PositionGate stops short 1” from full open position. Used for a reversing edge device. Gate stops short 2” from full open position. Gate stops short 3” from full open position. Used for a reversing edge device.Gate Close. PositionGate stops short 1” from full close position. Gate stops short 2” from full close position. Gate stops short 3” from full close position. Switch 1 Must OPEN the gate upon initial AC power up and open command. If the first open command begins to close the gate,Opening direction will vary depending on the chain setup position See above. Switch 2 Turns the autoclose timer on or off. Can be adjusted from 1 to 23 seconds to close gate. Switch 3 This switch determines when the relay on the board will be activated. This relay can be used as a switch for variousSwitch 4 This switch determines the operation of the builtin solenoid lock. The OFF setting is the factory setup. Caution Do notChanging thisSee pages 33 and 34 for more informationSwitches 56 These work in conjunction with each other and determine if the operator will stop the gate at the full openNeeded only when using a reversing edgeSwitches 78 These work in conjunction with each other and determine if the operator will stop the gate at the full closeNeeded only when using a reversing edgeThese positions are determined by the physical stops that have been installed See section 1.2, page 10. Timer The AutoClose Timer should be turned ON DIPSwitch 2 to allow the “multiple gate cycles” to run automatically,Clutch The clutch’s factory setting will work correctly for most installations.

The clutch must NOT slip while the gate is cyclingIf the clutch slips during this period, it must beSafety Devices Run this sequence before testing any safety features primary inherent reverse sensor, secondary entrapmentReversing Edge mounted on the Gate using End Posts When using a reversing edge on either end of the gate with an endSequence of Automatic “Multiple Gate Cycles” to Set Gate Limits. CAUTION Keep pedestrians and vehicles clear of the gate while this sequence is running! After the first open command is given to the operator gate can be in any positionOpen. Gate MUST open until it contacts the physical “open” stop. if gate starts to close, turn power off andTurn power back on and give open command again. Close Autoclose timer will close the gate until it contacts the physical “close” stop. Manual close commandOpen. Gate will automatically open until it gets approximately 12 inches away from the full open position andAutoclose timer will close the gate until it gets approximately 12 inches away from the full close position. Close and stop, then continue closing until it contacts the physical “close” stop again. Manual close commandSequence. Finished. Open and close gate positions are now set and will be remembered by the operator until it loses AC power. Gate will function normally after automatic “Multiple Gate Cycles” sequence has finished. Note If gate encounters an obstruction during this sequencing,In addition to the inherent reverse sensor, this operator is equipped with a mechanical slip clutch UL 325 Type C to further

reduce theDO NOT over tighten the clutch to compensate for a gate that is damaged, poorly constructedIdeal Clutch Adjustment The operator will cycle the gate without the clutch slipping. The clutchTo adjust clutchNote After power has been turned back on, the first open command willHex Bolt. Test the operator clutch adjustment. Magnetic. Spring Assembly. Hex nut is connected to black plastic magnet holder.

Important Note 2 magnetic sensors located on the bottom ofKeep all high voltage wires away fromCAUTION Keep pedestrians and vehicles clear of the gate whilePlace an immobile object along the gate path, allowing the gate to strikeThe clutch must slip and the gateIf it does not, readjustThis vehicular gate operator is equipped with an inherent adjustable reversing sensor Type A used as the primary entrapment protectionThe gate will reverse direction after “physically” encountering an obstruction in either theIf the AutoClose Timer DIPswitch 2 is ON and the gate physically encounters an obstruction during the CLOSING cycle, it will reverse toAnother input command is needed before the gate will resetFor the reverse system to function correctly, the gate must be properly installed and work freely in both directions. The clutch must beMin Max. Sensitivity. Note Each operator must be individuallyTest the operator reversing sensitivity. Place an immobile object along the gate path, allowing the gate to strike it while in the open and close cycles. The gate must reverse directionIf it does not, increase the reverse sensitivity step 2 and repeat this test until the correct sensitivity has been set. TheIn addition to the inherent reversing sensor system, the Model 9050 has a 6pin UL 325 terminal for the connection of photo sensorsType B1Entrapment protection devices mustInstall these devices where the risk of entrapment or obstruction exists while the gate is moving. The Model 9050 offers numerous options to meet your specific needs. The next 2 pages show wiring and typical positioning of the entrapmentOutletsReaAll inputs are normally open NO.Gate will resume the open cycleDoDoIncCLOSE Entrapment Sensor. OPEN Contact Sensor. CLOSE Contact Sensor. Alarm Reset. Entrapment Alarm. Closed Gate. OpeningDirection Photo Beam. Entrapment Area. Entrapment AreaGate will resume the close cycleClosingDirection Photo Beam. Closed GateFiller Post if necessary.

Closed GateNote If the gate is. OpeningDirection Reversing EdgesGate Support Post if Installed. Entrapment AreaEntrapment AreaClosingDirection Reverse Edge. Closed GateFactory wired. Entrapment Alarm This is an output from the circuit board that drives the entrapment alarm. Do not connect any other device to this terminal. Factory wired.Typical UL Photo Sensor mounting heightIf the distance between the gate. Secure Side. NonSecure Side. Inside Property. Outside PropertyLessLess. Filler Post or Barrier. Reversing Edge Open Contact Sensor. UL sensor mounted on wall. UL sensor mounted on post. Note AdditionalWall. No higher thanPhoto sensors may be installed on either side of gate frame, as close asA filler post or barrier may need to be installed between the. A reversing edge should be installed on the post or barrierPhoto Sensors With Filler Post and Reverse Edge Sample Setup. ClosingDirection Photo Beam. Wall. Filler Post with OpeningDirection Reversing Edge If necessary, see above. Closingdirection photo sensors wired to UL 325 terminal.Normally OpenMain. Terminal. CommonNormally Open.