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Ground 14. Will the gate require a locking device? Will additional solar panel cable be required? The manufacturer will pay standard ground freight on the return of repaired or replaced items in warranty. CONTENTS Safety Precautions Applications Pre-Installation Checklist Parts Identification Operator Installation Control Board Connections Control Board Adjustments Push to Open Installation Radio Receiver Options Troubleshooting guide Warranty SAFETY PRECAUTIONS IMPORTANT - READ CAREFULLY BEFORE BEGINNING INSTALLATION Read this installation manual completely prior to installation. Will vehicles (and trailers) have sufficient room off roadway to operate any control devices such as keypads? PART IDENTIFICATION OPERATOR INSTALLATION STEP 1 PIVOT ARM INSTALLATION (standard pull to open) Location of Pivot Point Notes: PULL TO OPEN pulls gate open (actuator is extended when gate is in the closed position). You're Reading a Free Preview Pages 262 to 299 are not shown in this preview. You're Reading a Free Preview Pages 377 to 398 are not shown in this preview. AUTO REVERSE SENSITIVITY Rotate clockwise to decrease sensitivity (more force). Is there a suitable location for the operator? How can the gate be opened in emergencies? Pricing Not Available Online. Recommend safety devices such as loop detectors, edge switches, and beam detectors when applicable Install control devices such as keypads far enough away (5 feet or further) from any moving parts of the operator and gate to prevent possible injury Always disconnect the battery or power source when making adjustments or repairs to any part of the gate or operation All rollers should be covered to prevent injury APPLICATIONS The Apollo Model 1500/1600 Swing Gate Operator is designed to handle swing gates up to 16 feet in length and 600 pounds each A professional fence or gate dealer is recommended to assure proper installation Apollo Gate Operators are available only through qualified dealers with an outstanding reputation in the fence and gate industry These dealers will be able to recommend the proper equipment for particular applications Apollo Gate Operators are 12 Volt DC (Direct Current) powered A 12 Volt marine type battery with connecting posts located on the top is recommended There are several advantages with 12 Volt DC systems: Low voltage virtually eliminates risk of electrical shock. Verify proper installation and operation of the gate. Check solar panel output or battery charger output or re-evaluate usage. WARNING: Do not let extension tube rotate as it extends. Is the hinge and stop posts sturdy enough to handle the gate & operator? You're Reading a Free Preview Pages 320 to 330 are not shown in this preview. Battery powered operators provide up to 200 operations in the event of power outages. #1, #3, #7, #8 ON, all others OFF. Please Call: (800) 878-7829. Edge 1 input 2. Charging Methods for Average Daily Usage Model # Daily Usage -> 1-15 16-30 31-60 61-120 121+ 201 5 watt of solar panel w/battery X (2) 201 10 watts of solar panel w/battery X MSX20 20 watts of solar panel w/battery & regulator SRX6 X MSX40 40 watts of solar panel w/battery & regulator SRX6 X 404 1.5 amp automatic charger w/battery X 406 10 amp automatic charger w/battery X Note: Double the amount of solar panels for 1600 Dual Gate Operators. Connect to the "SLAVE" connector on the control board. Tip - By welding stop tabs on the top and the bottom of the master side, the two gates may now be adjusted so the slave gate will close against the stop tabs of the master gate and create enough tension to prevent gates from moving back and forth. Battery voltage is too low Battery voltage should be 12 to 14 volts under load. Try a different transmitter. APOLLO Gate Operators, Inc. Refer to SAFETY PRECAUTIONS. Fuses There are 4 standard automotive type fuses on the 635/636 circuit board The EMERGENCY BYPASS plug is protected by a 15 Amp fuse The remaining three fuses (one for each of the 12 Volt outputs) are 2 amp and may be replaced with 3 amp if necessary. Are safety loops, edge switches, or photo beam detectors required? Free Exit Input (Open only for telephone entry probes etc) 11. Bolt the actuator to the gate bracket as shown. Battery voltage should be 12 to 14 volts under load. Gate is too limber Reinforce gate. Pivot arm is not ridged. You're Reading a Free Preview Pages 416 to 425 are not shown in this preview. In the event the motor is not disconnected quickly enough the blue 15 amp fuse will protect the circuit board from damage and should be replaced when the original problem is fixed. You're Reading a Free Preview Pages 48 to 73 are not shown in this preview. Run the unit through a complete cycle to insure proper operation then mount permanently. Connect the RED power wire (s) to the battery positive (+) and the BLACK power wire (s) to the battery negative (-) STEP 5 Activate push button on the side of the control box and extend the actuator until it stops (PULL or OPEN only, leave actuator retracted for PUSH or OPEN). You're Reading a Free Preview Pages 410 to 412 are not shown in this preview. 12V Fuse Protected Power Outputs For: Radio receivers Keypads Miscellaneous options Emergency bypass Peripheral Inputs: Free exit Safety loop Shadow loop Edge 3-button station Telephone entry Photoeye Timer to close option Slave disable 3-button station enable You may also be interested in the following product(s) \$1,997.94 each \$1,997.94 each \$2,113.03 each \$2,113.03 each \$2,186.36 each \$2,186.36 each \$2,482.47 each \$2,482.47 each You're Reading a Free Preview Pages 13 to 22 are not shown in this preview. Re-adjust - CAUTION: Automatic reverse sensitivity should be set sensitive enough to avoid injury. Excessive closing pressure on gate.. MODEL 1500 & 1600 INSTALLATION MANUAL Description Page Swing Gate Operator *The model 633 and 634 control boards have been modified for a better troubleshooting convenience to our customer. Low or dead battery in transmitter. Fuse blown on circuit board. Transmitter is stuck on. Replace receiver SYMPTOM Gate randomly opens, closes, or stops for no reason. GATE IN OPEN POSITION.....Orange & Green wires are shorted White & Green wires are open. Replace battery. Rotate counter clockwise to increase sensitivity (less force). Do not test sensitivity by standing between the gate and the hinge or stop post. Always insure that the gate has closed securely before leaving area. You're Reading a Free Preview Pages 352 to 358 are not shown in this preview. Change at least one switch position in the transmitter and receiver. Disconnect the solar panel or charger and measure the battery voltage Battery should made 12 or more volts and never drop below 12 volts when operating. SYMPTOM Gate will open using push button on side of box, but not with transmitter. Never set all code switches to the same position. Ground 4. Should electricity be required use a certified electrician only. Arrange with local fire and law enforcement for emergency access. Required welding should be performed by a qualified welder. Battery voltage is too low. Rotate counter-clockwise to decrease time before gate closes If program switch #3 is on, the gate must activate the open limit switch in order for the timer to close to operate. Align the hole in the end of the actuator extension tube with the holes in the gate bracket and locate gate bracket mounting position with the gate in the closed position. Do not allow children to play with the gate controls. The 636 board is a direct replacement for the old Apollo 634 control board. You're Reading a Free Preview Pages 334 to 340 are not shown in this preview. Note: Transmission distances will vary according to terrain, obstructions, and electrical interference. The normal range from inside a vehicle is 50-100 feet while 100-150 feet may be obtained from outside the vehicle. Ground 9. Push button on side of control box is defective, Disconnect and test. Raise the height of the antenna using a #244 antenna extension kit. Nice Apollo 636 control board for the Nice Apollo 1600 non-ETL dual swing gate operator. Check for proper limit switch configuration (multimeter required) on the connector from the actuator. Ground 12. Open Input (N/O) 8. SYMPTOM Gate will not open or close. Replace circuit board. 635/636 CONTROL BOARD ADJUSTMENTS #1 #2 #3 #4 #5 #6 #7 #8 #9 ON OFF ON OFF OFF OFF ON ON OFF PROGRAM SWITCHES Factory Description Settings #1 TIMER TO CLOSE Automatically closes gate - ON Close timer enabled OFF Close timer disabled #2 CURRENT SENSITIVITY OPTION Delays current sensing from start ON 4 second delay OFF 2 second delay #3 TIMER TO CLOSE OPTION ON timer to close works only when open limit switch is activated -OFF timer to close works from any open gate position #4 DUAL CONTROL. SLAVE OPTION ON disables slave side of dual board - OFF enables slave side of dual board #5 DUAL CONTROL MASTER OPTION ON disables master side of dual board - OFF Enables master side of dual board #6 MAXIMUM RUN TIMER OPTION ON stops and reverses gate if run timer times out before closing - OFF stops gate if run timer times out before closing #7 MAXIMUM RUN TIMER VALUE ON 40 seconds - OFF 40 seconds #8 TIMER TO CLOSE VALUE ON 20 to 70 seconds (adjustable) - OFF 10 to 35 seconds (adjustable) #9 OPEN - STOP CLOSE CONTROL ENABLE ON allows for open stop close unit (optional) to operate gate - OFF normal operation (If 9 is on, terminals 4 & 5 must be normally closed for proper operation) TIMER TO CLOSE ADJUSTMENT Rotate clockwise to increase time before gate closes. for a stuck button. Transmitters must match code switches for proper operation. If power is taken directly from battery or connected as shown below, receiver should be configured for 12VDC. Ground 5. Code switches do not match. Re-adjust the close limit switch on the actuator. Be sure center conductor of antenna is penetrating the female connector on the side of the gate box. Installation should be performed by a professional installer. You're Reading a Free Preview Pages 27 to 40 are not shown in this preview. You're Reading a Free Preview Pages 311 to 314 are not shown in this preview. You're Reading a Free Preview Pages 216 to 246 are not shown in this preview. This warranty is in lieu of alt other warranties expressed or implied (some states do not allow limitations on how long an implied warranty lasts, so this limitation may not apply to you) and shall be considered void if damage was due. CONTROL BOARD CONNECTIONS #/636 1 ORANGE Open Limit Input (Normally open unless gate is opened) 2 WHITE Close Limit Input (Normally open unless gate is closed) a BLACK Motor Positive during open cycle Negative during close cycle 4 RED Motor Negative during open cycle Positive during close cycle 5 GREEN - Ground (Limit Switch Common) 6 Ground Not used 7 BLACK Ground Battery Negative 8 RED Battery Positive (+12 VDC) 1. LIMITED ONE-YEAR WARRANTY Apollo products are warranted against defects for a period of 12 months from the date of purchase, providing recommended installation procedures are allowed. Do not allow children or adults to "ride" on gate during operation. You're Reading a Free Preview Pages 122 to 188 are not shown in this preview. Inspect for damage and replace extension tube if required. Award-Winning Support 100% Secure Payments Home / Resources / Manuals and Specifications x Pricing Not Available Online. Low battery in transmitter. Low battery in operator. For PUSH TO OPEN installations see page 11. Fast Delivery Worldwide Accurate, upfront shipping. You just push a button to see what part of the control board is saying where the problem exist. SYMPTOM Gate surges too much Does not run smooth. Consider safety and access options. 1600 Adjustments As you open and close the gates, you will notice that the slave side moves 2-3 seconds slower than the master. Close Input (N/O) 4-7 has 3 Button Control 7. Features adjustable auto reverse sensitivity and adjustable auto close delay. This feature should be periodically tested to assure proper operation. Reception is being blocked. Reset program switches to factory setting. GATE IN MID TRAVEL.....White Green & Orange wires are open no shorts. Can the solar panel (if used) be mounted in an unobstructed area facing south (in the northern hemisphere)? If a 1800 is being installed and conduit is being used under the drive (recommended) cut the slave (opposite side where control box is mounted) actuator cable about 12 from the white connector. Weld or bolt the gate bracket to the gate using 3/8" bolts, lock washers, and nuts. Do not allow children to play in the gate area. Do not retract the extension tube too far or the retract limit switch will not be activated. Check solar panel output or battery charger output or reevaluate usage. Does the gate swing free and level? Run the remaining cable across the drive through conduit and up through the control box. Tip Tack weld or C clamp at first if uncertain about location. Edge 2 input 3. Replace circuit board. The following table should be used as a guide for capacity of operation of operators only, additional options may reduce the the daily usage. Periodically test the obstruction sensitivity to assure safe and proper operation. Check fuses on gate control board. It a 400 Upgrade Kit is to be used refer to the 400 instructions for pivot point location. The following instructions provide up to 105 deg. Do not insert fingers or tools in the hole at the end of the extension tube! STEP 6 Cycle the operator and adjust limits as required. If the operator opens automatically after closing, extend less until gate remains closed. Replace circuit board SYMPTOM Gate moves only a few feet, then stops or reverses. Ground 10. Safety Loop or Photo Beam Input GND - Ground INP - input (Activates gate when momentarily is connected to ground) 12V - +12 Volt Output (For powering options 2 Amps max) Emergency Bypass Connector Used when the control board is not functioning. Satisfaction Guaranteed We pride ourselves on customer service. WARNING: The AUTO REVERSE SENSITIVITY should be adjusted to prevent injury in the event of someone being entrapped in the gate. An inexpensive digital multimeter may be purchased at Radio Shack or a local electric supply company. Refer to the owners manual for instructions SYMPTOM Gate opens OK but after closing, opens back up. Under Gate or Shadow Loop Input 13. The model 633/634 control board is now called the model 635/636 with new LED light read outs that help troubleshoot your problems. Replacement parts are warranted for the remaining portion of the original warranty period. Re-adjust current sensitivity. Are the hinges serviceable? Activate the operator by momentarily shorting GND to INP on one of the three pin connectors. PRE-INSTALLATION CHECKLIST The following checklist should be used before beginning installation: Verify that the proper operator has been selected for this application. Current sensitivity is adjusted too sensitive. Check all transmitters, keypads, pushbuttons, etc. Please note that the charge capability of solar panels will vary with different geographical locations. Re-weld and/or brace pivot arm. Disconnect all accessories from the circuit board receivers push buttons keypads, loops, phones, intercoms etc. Bolts are loose Snug all bolts Pivot arm bolt should be snug but not tight. Recommend if needed. Stop Input (N/C) 6. Is electricity available (if required)? If a trickle charger is used and a standard electrical outlet is not readily available, a licensed electrician will be required for proper electrical hook up. Disconnect all accessories from the circuit board and inspect pins in the connector for damage or poor connections. SYMPTOM Transmitter works, but not very far. TROUBLESHOOTING OPERATOR & ACCESSORIES Some troubleshooting will require a hand held multimeter. How will visitors enter and exit? The CAUTION AUTOMATIC GATE" sign should be clearly visible from both sides of the gate. You're Reading a Free Preview Pages 363 to 366 are not shown in this preview. Replace receiver. If the operator works reconnect each accessory individually starting with push button and test operation. Determine the general location of the operator, attachment points, and solar panel (if used). Automatic reverse sensitivity is set too sensitive. Review with the owner all safety concerns including: Do not operate the gate unless area around gate is in full view. Any device that requires 120 Volts AC should be U.L. approved. of swing, STEP 2 STEP 3 Control Box Installation Mount the control box within 4 feet of the pivot arm Use mounting hardware capable of supporting the weight of the control box with the battery installed Mounting holes are not provided since mounting surfaces will vary Set battery inside of control box with terminals toward the front (Do not use any battery with side terminals) STEP 4 Connecting the Actuator (s) Connect actuator cable to the MASTER connector on the control board. Transmitter malfunctioning. The battery may be recharged with a trickle charger or by solar energy (eliminating the need for costly trenching to remote entrances). Transmitter and receiver code switches are all down, up, or in the middle. PUSH TO OPEN pushes the gate open (actuator is retracted when gate is in the closed position). Unplug the motor harness from the Master (or Slave) Connector and momentarily insert into the Emergency Bypass Connector to open the gate. Cutoff any excess cable and splice the short piece back to the cable. You're Reading a Free Preview Pages 370 to 373 are not shown in this preview. Actuator extension tube is bent. You're Reading a Free Preview Pages 97 to 106 are not shown in this preview. Gate is mechanically binding. Disconnect actuator from gate and eliminate binding. GATE IN CLOSED POSITION.....White & Green wires are shorted Orange & Green wires are open. Check that the code switches in the transmitter and the receiver match. New or factory rebuilt replacements may be used. to. improper installation or use, connection to improper power source, or if damage was caused by fire, flood, or lightning The manufacturer will not be responsible for any labor charges incurred in the removal or replacement of defective parts. In case of failure due to defective material or workmanship during the warranty period, the defective part will be repaired or replaced at the manufacturer's option at no charge if returned freight prepaid. Will there be children or animals in the area? Antenna not making good connection. PUSH TO OPEN INSTALLATION APOLLO Gate Operators RECEIVER OPTIONS Do not confuse the receiver code switches with the red program switches on the gate control board. Bracket should attach 52" - 54" from the center of the hinge.

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