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Apollo 1500 gate opener manual

1 Table of Contents 2 3 4 5 7 8 9 10 11 12 13 14 15 16 17 GATEKEEPERS, INC. Wholesale suppliers of Access Control Systems and Gate Operators Apollo 1500/1600 Swing Gate Operator installation instructions. Site preparation The port should fluctuate the level and have no significant binding when opening or closing. When the port is in the closed position, it is recommended that there is a positive stop to prevent the port from closing outside the desired closing position. A stop tab welded to the top and bottom of the stop post is ideal for a positive stop. Step 1 - Pivot Arm Note installation: All Apollo Gate Operators are universal in design and can adapt to right- or left-handed ports. To install a 400 Upgrade Kit, see 400 Upgrade Kit Addendum for rotation location. 1.1 Find the 2x 2 x 19 swivel arm. A carpenter square or tape measure and level is required for installation. 1.2 Determine the vertical height that the actuator is attached to the gate. Although a horizontal center bar is normally the ideal location for attachment, the top or bottom of the port is preferred. The actuator can be mounted upside down if necessary. Using a level, align a straight edge with the center of the vertical mounting height and mark this height on the hinge pole. The upper surface of the swivel arm should be aligned with the lower mark when welding. Note: Standard installation is Pull to Open. See Push to Open instructions differently. Use the gate in a closed position to determine the pivot point using a carpenter's square or tape measure. The pivot point is 13 perpendicular to the gate from the center of the hinge and 6 parallel to the gate in the opposite direction of the gate. 1.3 Cutting and welding arm, so that the 1/2 hole is aligned with the pivot point. When the hinge pole is round, the end of the pivot arm to be welded should be saddled to ensure a good weld. A gusset is recommended to increase the stiffness of the central arm. Step 2 - Actuator installation Line the 1/2 hole on the actuator's rear glove with the 1/2 hold at the top of the pivot arm. Connect the actuator to the swivel arm with a 1/2 x 4 bolt, 1/2 ring (washing machine should be on top of the actuator mounting bracket) and 1/2 slot nut. The joint should be tight enough to give movement considerable stiffness. Connect the actuator's anterior clevis (extension tube end) to the port mount bracket using a 1/2 x 3 bolt and 1/2 slot nut. Step 3 - Control Box and Solar Panel Installation 3.1 Find the control box and determine the installation location. Mount the box close enough to the actuator to allow connection of the 8' actuator cable. Mounting holes are not present because mounting surfaces will vary from gate to gate. Avoid getting drill curls on the electronic circuit board. the actuator cable through the bottom of the control box and connect the white connector to the white connector on the circuit board labeled MASTER. Do not connect to the NOODBYpass NOODBYpass It is important that the connector is locked in place to ensure a good connection. 3.2 Find the solar panel and mounting bracket. Attach the solar panel to the mounting bracket using the two 11/4 nuts on the bolts in the solar panel frame. The panel should be mounted within 10' of the control box, due to the south at an angle of 45° and not be obscured for maximum performance. Run the cable through the bottom of the control box. Note: You can add up to 150' of 207 extension cable to find a suitable location for the solar panel. Step 4 - Test & Adjustments 4.1 Install the battery and connect the black wire of the solar panel and black actuator cable to the battery's negative terminal. Connect the solar panel's red wire and actuator red thread to the battery's positive terminal. Warning: Do not rotate the actuators as it extends. Do not place tools or fingers in the hold at the end of the extension tube. Press the button on the side of the control box to extend the actuator. 4.2 Once the actuator has been fully extended, pull the actuator off the circuit board. With the gate in the closed position, press the actuator against the gate and mark the place where the gate bracket should be attached to the gate. Temporarily attach the gate bracket with a C-clip or tack weld. 4.3 Reconnect the actuator to the circuit board. Press the black button on the side of the control cabinet and observe its operation. The gate opens about 100 degrees, pauses for about 20 seconds and then closes. If no major adjustments are required, disconnect the actuator from the circuit board and permanently attach the gate bracket to the port using the included hardware or weld it through. Connect the actuator extension to the gate bracket with a 1/2 x 3 bolt and 1/2 slot nut. Reconnect the actuator to the circuit board. The port operator is now ready for final adjustment. 4.4: Limit adjustment The actuator limit switches are set at the factory for a stroke of 22. These limits can be adjusted to set the open and dense position of the port. The adjustment ports are located at the back of the actuator above the rear glove. All limit adjustments are made using a standard sized screwdriver. Extension Adjustment: On a standard installation, the extension adjustment determines the closed position of the port. If there is too much closing pressure, the automatic reverse sensitivity opens the port 1-2 seconds after it is closed. Retract Adjustment: For a standard installation, the departure adjustment determines the open position of the gate. If the retraction adjustment is rotated too far, the extension tube is retracted to the physical limit and stops. If this condition exists, the close timer will not work until the retraction limit has been adjusted. 5 - Programming of the Control Board 5.1 Control Switch Settings The control board is pre-programmed in the factory as follows: Switch 1 ON Automatic timer is activated Switch 2 OUT Two second delay up to Sentence Activated Switch 3 ON Timer to close is only activated from open limit Switch 4 OFF Makes master side of port control Switch 5 OFF Allows slave side or gate to operate Switch 6 OFF Maximum run timer option (not used) Switch 7 ON Maximum run timer option (not used) Switch 8 ON Close timer value (excludes time in half) Switch 9 OFF For open, stop and close unit switching unit. 5.2 Automatic reverse sensitivity The automatic reversing sensitivity adjustment is set to the center. Warning: The automatic reversing sensitivity adjustment should be sensitive enough to avoid serious injury while using the gate. For the location of the adjustment, see Layout of the control board. Timer to close The close timer can be adjusted from 10 to 70 seconds. Switch 8 doubles the closing time in the AAN position. For the location of the adjustment, see Layout of the control board. . PROGRAMMING OF THE CONTROL BOARD Program Switches The program switches are the nine switches in the top right corner of the control board. Note: The default factory settings are cursant. Turn 1 - Switches timer to turn on/off - Timer to close enabled - Timer to Close Disabled Switch 2 - Current Sensitivity Option - Delay from Start to Current Sense Enabled On - 4 Second DelayOff - 2 Second Delay Switch 3 - Timer option Close - Timer to Close only works when open limit switch is activated Off - Timer to Close works from any point where the gate is stopped during opening Switch 4 - Slave Enable/Disable On - Disables slave side of control boardOff - Enables slave side of control board Switch 5 - Master Enables master side of control boardOff - Enables master side of control board Switch 6 - Maximum Run Timer Option On - Reverses gate if timer is out before closingOff - Stops gate if timer is out before closing Switch 7 - Maximum Run Timer Value On - 10 to 30 seconds (adjustable) Off - 5 to 15 seconds (adjustable) Turn off 8 - Timer to Close Value On - 20 to 70 seconds (adjustable) Off - 10 to 35 seconds (adjustable) Switch 9 - Enable/Disable Open-Close-Stop Switch - Disables OCD - Disables OCD switch Note: Timer range may vary from board to board. Control Board Connections 8-pin connectors #1 Open Limit Input #2 Close Limit Input #3 Motor (Positive during open mode, negative during close mode) #4 Motor (Negative during open mode, positive during open mode) #5 Ground #6 Ground #7 Ground (Battery negative) #8 Battery 12VDC 7 Pin Connectors #1 Edge 1 Input #2 Edge 2 Input #3 Ground ground #4 Ground #5 Stop Input (Use only

with OCD control, N/C) #6 Use Close Input (OcS control only, N/O) #7 Open Input (Use OCD control only N/O) #8 Ground #9 Ground #10 Free Exit Input #11 #12 Under Gate Input Loop #13 Ground #14 Safety Loop Input. There are another three connectors for ground, input and 12V, all fused for up to two amplifiers. The emergency bypass connector is for use in situations where the control board control board Death. . PUSH TO OPEN INSTRUCTIONS Another pivot point and some wiring changes are needed to open installations. Note that the swivel arm and actuator will protrude into the driveway about 10 when the gate is in the open position. Use the gate in the closed position to determine the pivot point using a carpenter's square or tape measure. The pivot point is 6 from the hinge of the gate (perpendicular to the gate in the closed position) and 11 parallel to the gate. Remove 6 cable casing from the connector end of the actuator cable. Cut and reconnect the white/orange and red/black threads as shown. PUSH TO OPEN: TOP, LOCATION OF PIVOT POINT FOR PUSH TO OPEN INSTALLATION; Bottom, re wiring diagram for push to opening installation. 1600 DUAL GATE OPERATOR ADDENDUM Apollo Dual Gate Operators install basically the same as the Apollo Single Gate Operator, with the exception of the following. 1. An additional five watt solar panel and mounting bracket is provided to increase the load capacity to ten watts. 2. A 38-foot actuator cable shall be installed on the slave actuator to be mounted on the other side of the control cabinet. Installation 1. Install the main actuator according to the instructions above. 2. Assemble the slave actuator and hardware. 3. Cut the slave actuator cable about a foot from the white connector. Run the remaining cable over the disc through PVC pipe and up through the control box. Cut off excess cable and reconnect the short piece with the connector using the supplied wire nut and connect it to the slave connector on the control board. Installation of solar panels The solar panels can be mounted side by side or can be mounted separately because each panel has its own mounting bracket, cable and battery ring terminal connectors. Both panels should face the south in the Northern Hemisphere and be free of shadows, trees and structures. Final adjustment When you open and close the gates, you will notice that the slave side moves about 2-3 seconds slower than the master. By welding stop tabs on the top and bottom of the master side, the two ports can now be adjusted so that the slave gate will close against the stop tabs of the master gate and create enough tension to prevent the gates from moving back and forth. . WARNING: Disconnect the battery current before proceeding. Step 1 Point of rotation: Find the short arm and position so that the two ears are aligned in the port. Mount the end closest to the ears on the swivel arm with a 1/2 x 4 1/2 bolt and 1/2 slot nut. Don't use rings. The joint should be tight enough to give movement considerable stiffness. Step 2 Find the long arm and position so that the two perpendicular ears are pointed into the gate and align the end with the extended ears with the end of the short arm. Connect the long arm the short arm with a 1/2 x 3 bolt and 1/2 final nut. Again, the joint should be tight enough to give movement significant stiffness. Step 3 Mount the actuator actuator the two sets of ears with 1/2 x 3 bolts. Continue with step three on the normal installation. . SYMPTOM: Port opens fine, but after closing time, opens a backup. 1. Automatic reverse sensitivity is set too sensitively. Adjust. NOTE: Automatic reverse sensitivity should be sensitive enough to prevent injury. 2. Too much closing pressure on the gate. New actuator. 3. Gate is in a bind at closing. Adjust the port. 4. When closing the port, check that the battery voltage is more than 12.5 VDC. 5. Replace port control board.. SYMPTOM: Port does not move at all. 1. Check the battery voltage (should read 12.5 VDC or higher). 2. Make sure the actuator connector is firmly in the port's stem board. 3. Check for damaged actuator cable. 4. Replace the port control board. 5. Connect the actuator cable to the EMERGENCY BYPASS connector on the control board. Unplug the connector before the port opens too far to prevent the fuse from blowing up. . SYMPTOM: Gate moves only a few feet, then stops. 1. Check the battery voltage (should read 12.5 VDC or higher). 2. Check for port binding or obstruction. 3. Check for curved actuator screw. 4. Replace port control board.. SYMPTOM: Port peaks too much when moving. 1. Check for movement in the pivot arm when the gate moves. Swivel arm should be stiff for proper operation. 2. Check for loose bolts. 3. Gate is too nimble. Stiffen gate with angle iron or square tubes.. SYMPTOM: Port opens randomly, closes and stops for no reason. 1. Check all transmitters and wireless keyboards for a stuck push button. 2. Unplug all other devices to see if the problem goes away. 3. Disconnect push button from the control board (possibly bad push button).. GATEKEEPERS, INC. Free sale: (800) 378-GATE (4283) Office: (423) 332-5808 Fax: (423) 332-5840 Email:GATEKEEPERS, INC.

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