

# TURTLE BACK TB100 HYDRAULIC GATE AND DOOR CLOSER



The **Turtle Back** is a hydraulic gate and door closer designed to push a door or gate shut with adjustable hydraulic speed control. Before installing the **Turtle Back** please read all instructions completely and confirm that the door or gate operates smoothly and is in good working order. If not, repair door or gate before mounting **Turtle Back**.

## MOUNTING INSTRUCTIONS:

The **Turtle Back** mounts on the hinge pin side of the door or gate and at any height. It is best to stay about 6" from the ground. **Turtle Back** works best if door or gate is flush with the door casing or post or at most, where the gate is "set in" as much as 1". If more than 1", it will be necessary to add a spacer block between the door or gate and the **Anchor Plate** (Dia. 2) so the **Anchor Bar** (Dia. 1) is approximately in line with the face of the door casing or gate post.

## INSTALLATION PROCEDURE:

1. Place **Anchor Bar** on the door or gate with **Hinge Bracket** on door casing or post. (Works on left or right hand doors by reversing hinge bracket). Align the edge of the **Hinge Bracket** with the edge of the door casing or gate post. (Dia. 1) Mark and then drill a 3/16" hole in anyone of the four **Hinge Bracket** holes and insert and tighten one 1-1/2" screw. If the wood post is

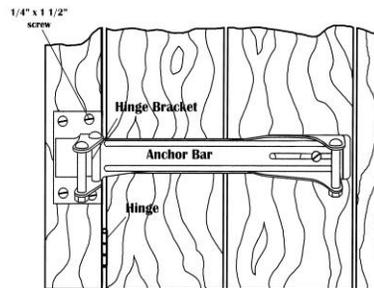
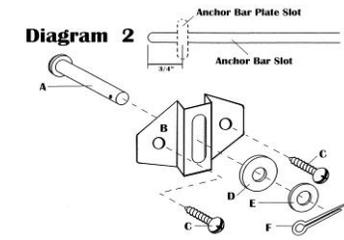


Diagram 1

round, the **Hinge Bracket** must be mortised into the wood post for firm mounting.

2. With the hinge bracket attached and the door or gate closed, swing and hold the **Anchor Bar** against door or gate and trace the outline of the **Anchor Bar Plate Slot** on to the door or gate. Swing back the **Anchor Bar** and mark a vertical line 3/4" back from the end of the slot. (Dia. 1) Center the **Anchor Connector Plate** on the 3/4" mark and slot. Mark the location of the two screws and drill 1/8" holes in the door or gate. Insert the **Clevis Pin** (A) into the vertical slot in the **Anchor Connector Plate** (B) as shown (Dia. 2) and attach the **Anchor Connector Plate** to the door or gate with the 2 screws (C). Place two **Slide Washers** (D) onto the **Clevis Pin**, swing the **Anchor Bar** over the **Anchor Connector Plate** so the **Clevis Pin** goes through the Anchor bar slot, place the **Steel Washer** (E) onto the pin and install the **Cotter Pin** (F) through the hole in the **Clevis Pin**.
3. Check that the Anchor bar assembly works freely without binding by swinging open and closing your door or gate. If OK, finish installing the 3 remaining 1- 1/2" screws into the **Hinge Bracket**. If not, remove screws and reposition.
4. Locate the speed adjusting screw and the filler screw on the **Hydraulic-Spring Assembly** (Dia. 3). They must be facing upward and toward you as you mount the **Hydraulic-Spring Assembly** onto the **Anchor Bar**. Align the **Hinge Knuckle** in



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between the **Hinge Bracket** and insert a **Hinge Bolt**, secure with a **Nut**. Slightly open the door or gate to get the proper hinge alignment then connect the other **Hinge Knuckle** to the **Anchor Bar**, Insert **Hinge Bolt** and secure with a **Nut**.

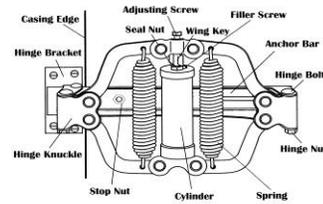


Diagram 3

- Open the door or gate and remove the **Wing Key** from around the **Piston Rod**. This will allow the door or gate to close properly. Save the **Wing Key**, as it must be reused should it be necessary to remove the **Hydraulic-Spring Assembly**. Open the door or gate and allow the **Turtle Back** to shut the door or gate. The **Adjusting Screw** (Dia.3) controls the closing speed of the door or gate. Turning clockwise slows the closing rate, counterclockwise to increase the speed. (Note: Increase speed to overcome a lock set with a strong latch spring)
- Snap on the Cover over the hydraulic cylinder with the curved section up. Your installation is now complete.

## ADDITIONAL MOUNTING INSTRUCTION FOR CHAIN LINK AND METAL GATES:

With so many different types of metal door and gates-chain link, ornamental iron, etc. the installer may have the need for additional mounting plates (not included) and to adapt the instructions to their application.

## ALTERNATE METAL POST INSTALLATION: (Dia. 4)

**Round metal post:** Weld an “L” angle or plate to the post so the mounting surface is parallel to the door or gate in the closed position. Align per instruction and clamp the **Hinge Bracket** to the new plate. Then bolt (not included) or weld into place.

**Flat or square metal post:** Locate desired mounting location, align **Hinge Bracket** per instructions and bolt or weld into place.

## ALTERNATE METAL GATE INSTALLATION (Dia.4)

Some metal gates do not have the proper mounting surface; for example as with a chain link gate. A wooden or metal strip (not included) wide enough to mount the **Anchor Connector Plate** (approximately 2”) will be needed. Bolt or weld the strip horizontally side to side across the gate’s wire mesh. Now following the INSTALLATION PROCEDURE step #2 the **Anchor Connector Plate** can now be mounted to the gate.

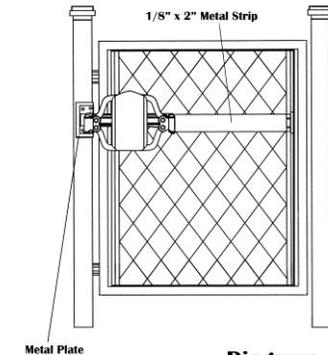


Diagram 4

**LIMITED WARRANTY** Lockey Digital Systems, Inc. (LDS) warrants the TURTLE BACK CLOSER for 6 months from the date of purchase, only to the original purchaser, against defective material and workmanship. Lockey Digital Systems, Inc.’s obligation under this warranty is limited to the repair or replacement, at its option, of the product or any parts thereof, when LDS determines in good faith that the defect is due solely to materials and/or workmanship, and is conditioned upon payment by the purchaser of all transportation cost incident to such repair or replacement. Return the product or parts thereof, with proof of purchase date, to Warranty Department, Lockey Digital Systems, Inc., 116 W. Michigan, Mt. Pleasant, MI 48858. LDS reserves the right to levy a service charge for handling, packaging and refinishing the product or parts thereof. This warranty does not include the cost of any inconvenience or property damage due to the failure of the product, transportation damage, misuse, abuse, accidents or similar incidents. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. This warranty replaces all previous warranties and is the only warranty made by LDS on this product. No other warranties, either verbal or written, are authorized.