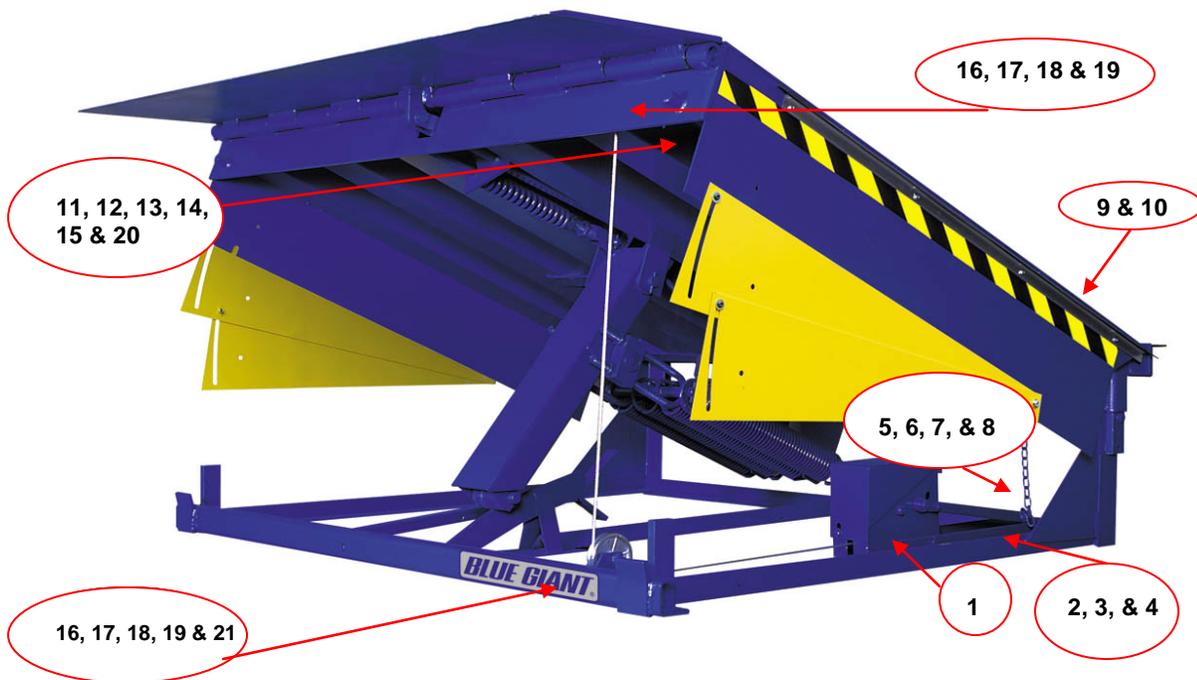


## HOLD DOWN BOX CONVERSION KIT KIT NO. 804-033



## INSTALLATION – INSTRUCTIONS



ITEM	QTY	PART NO.	DESCRIPTION
1	1	788-037-2	HOLD DOWN BOX GENERAL ASSY
2	1	113-121	HOLD DOWN BOX BRACKET
3	1	113-081	HOLD DOWN BOX PIN (MDL)
4	2	013-022	COTTER PIN
5	1	010-007	CAPSCREW
6	2	012-210	WASHER
7	1	011-543	NUT
8	1	012-211	WASHER
9	1	113-607	LIFTING CHAIN CUP
10	1	788-197	PULL CHAIN ASSEMBLY
11	2	103-195	BRACKET, SPRING
12	1	107-196	PIN, CLEVIS
13	1	013-010	SPRING PIN
14	1	793-971	FLOAT SPRING ASSEMBLY
15	1	013-536	CLAMP (1/4" DIA) CABLE
16	2	796-948	PULLEY BRACKET ASSY
17	2	793-092	CABLE ROLLER
18	2	011-554	LOCK NUT
19	2	010-027	HEX HEAD CAPSCREW
20	1	103-134	BRACKET - SPRING RETAINER
21	2	012-274	WASHER

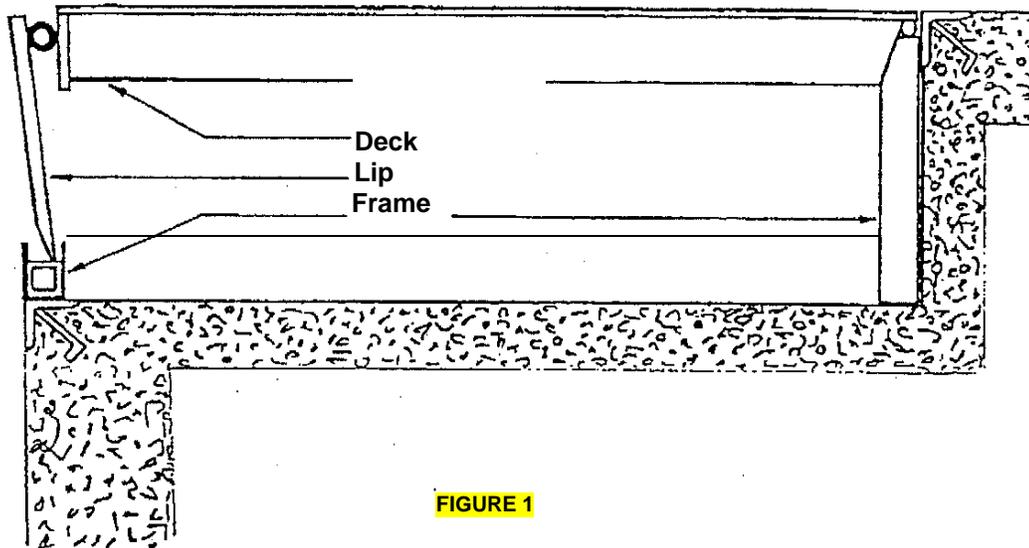
## **Installation instructions**

### **For Blue Giant Hold down Conversion kit**

**Part No. 804-033**

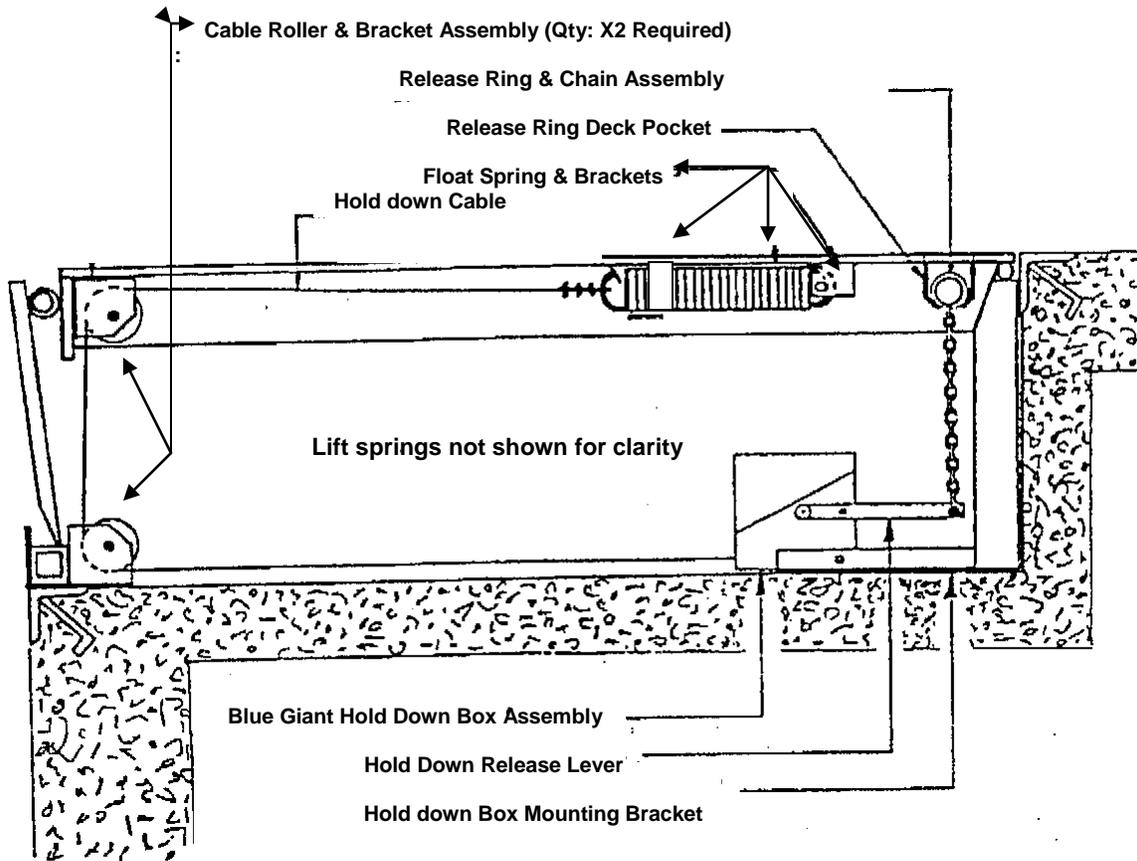
**USE ALL NECESSARY SAFETY PROTECTION EQUIPMENT  
e.g.: leather gloves, safety glasses, etc.**

1. Raise dock leveler deck and position a maintenance strut and traffic barriers as required for safety. Place a safety stand between the deck assembly and the lower frame to prevent the deck from lowering.
2. **Figure 1** is a side view illustration of a typical pit mounted mechanical dock leveler showing the Deck, Lip and Frame. These three items are standard on all models. *Please Note: Components that do not pertain to the hold down box conversion kit are not shown.*



3. Using appropriate tools and cutting torches (provide fire watch if needed), remove and discard all existing hold down related components from the dock leveler. Confirm that the safety stand is firmly in place, to prevent the deck lowering unexpectedly while the work is being performed.

**Figure 2** is a side view illustration of a typical dock leveler with a hold down box conversion kit installed.



**FIGURE 2**

4. Determine the most suitable location for the kit's mounting components. Select a space between two deck beams that will provide adequate straight-line space for mounting the upper cable roller cable, float spring, and release ring pocket to the deck plate, parallel to the beams, with adequate space directly below for mounting the hold down box and lower cable roller assembly.
5. Permanently mount the hold down box into its mounting bracket and place the entire assembly into the rear of the pit.

**CAUTION:** Do not loosen or remove the cable clamp that is tightened onto the hold down cable at the point that it enters the hold down box. The cable is pre-tensioned and serious injury can occur if the clamp is released prematurely.

6. Position and tack-weld the hold down box mounting bracket to the lower rear frame so that the cable will run squarely to the lower front frame, directly below center-line of the selected space.
7. Position the lower cable roller assembly into position against/on the lower front frame in direct line with the hold down cable and squarely below the space allocated for the upper cable roller assembly. Tack-weld into position.
8. Locate and tack-weld the upper cable roller assembly to the underside of the deck plate, as far forward (close to the lip hinge) as possible. Position is to be squarely above the lower cable roller assembly and directly in line with the hold down cable running back to the float spring.
9. Locate and tack-weld the float spring mounting brackets so that the distance measured from the rear face of the upper cable roller to the front face of the brackets is no less than 42" and no more than 66".
10. In preparation for mounting the release ring pocket, cut a 3" diameter hole in the deck plate, close to and directly above the release chain attaching hole in the end of the hold down box release handle.
11. Clean up and remove all sharp edges from the 3" hole. Position and tack-weld the release ring pocket to the underside of the deck plate centered on the 3" hole, as illustrated in figure 2, page 3.
12. Inspect the location and alignment of all the components that have been tack-welded into position to assure that the hold down cable will be aligned properly on the cable rollers and will not make contact with anything that could damage it during the normal operation of the dock leveler. With all components correctly positioned, permanently and securely finish welds them into place.
13. Install the float spring into its mounting brackets with the washer and cable thimble and away from the brackets as shown in figure 2, page 2. Fit and tack-weld a support strip under the front end of the float spring in such a way as to hold the front of the spring up against the deck plate with only the clearance required to allow the spring to be extended. Finish weld as required.
14. Feed the release chain assembly down through the deck pocket and attach it to the hold down box handle as shown in figure 2, page 2.

**NOTE:** The chain must be of sufficient length to allow the release handle to remain in its fully lowered position when the deck is fully raised.

15. **CAUTION:** Wire-wound cables such as this hold down cable can have sharp projections. Use appropriate personal protection such as leather gloves and safety glasses when handling. Unwind the loose cable from around the hold down box.
  
16. Feed the loose cable end through the lower and upper cable rollers and through the float spring eye as shown in figure 2, page 2. Loop cable back over the thimble and install a cable clamp loosely. Apply tension to the loose end of the cable, removing all slack between hold down box and float spring. Position cable clamp as close as possible to the float spring while maintaining tension on the cable and tighten the clamp securely.
  
17. Cut off excess cable approximately 2" from cable clamp.
  
18. Carefully and slowly remove the cable clamp lock that is positioned on the cable at the point the cable enters the hold down box. Use this clamp to double clamp the cable where it is attached to the float spring. Install and tighten securely.
  
19. Lubricate the dock leveler. Do not lubricate the interior of the hold down box or the portion of the hold down cable that winds into the hold down box.
  
20. Remove the safety stand and maintenance strut.
  
21. Return the dock leveler to the stored position.
  
22. Operate the unit through several full cycles, stopping the deck at numerous positions above and below dock height to confirm that the hold down system will hold the deck at any and all positions.
  
23. Clean-up the entire work area to complete the conversion.