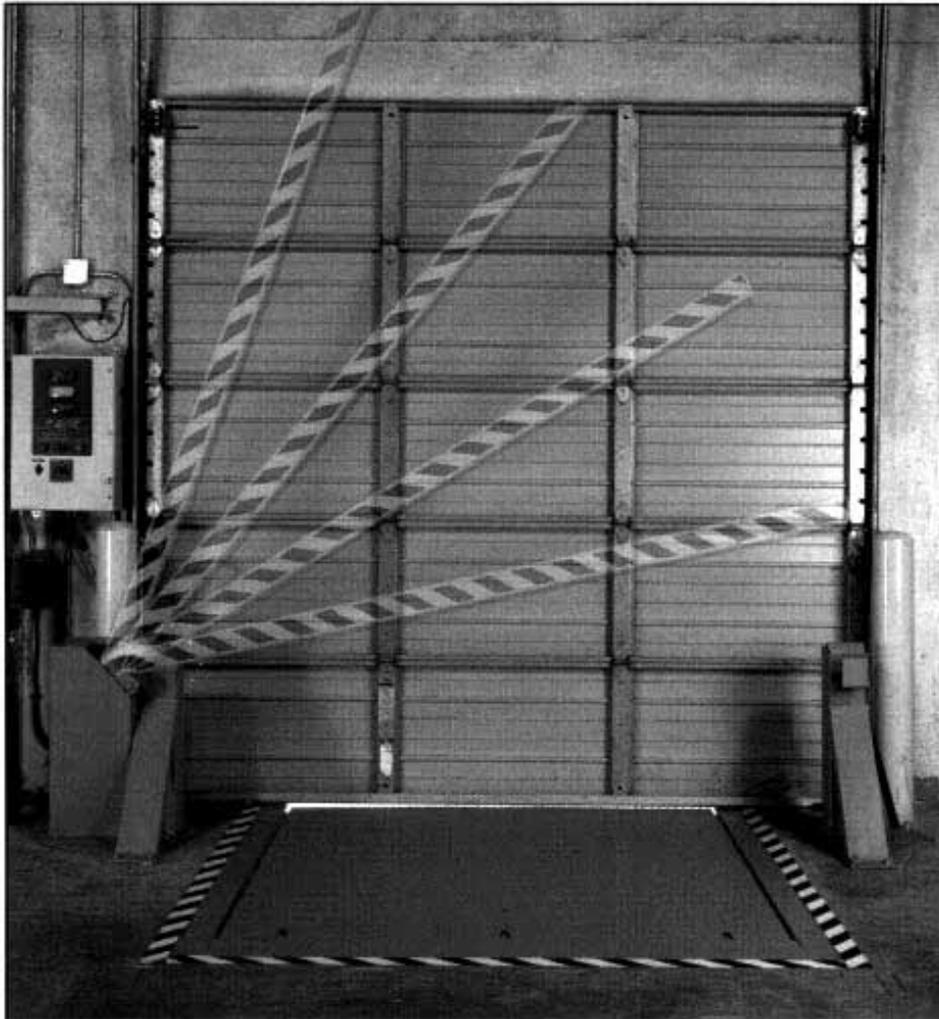


DGB Series Safety Gate

DGB-M Model



This User's Manual applies to Kelley® safety gate and Serco® safety gate models DGB-M manufactured beginning December 2010 with the serial numbers 61000001 and higher.

▲ WARNING

Do not install, operate or service this product unless you have read and understand the Safety Practices, Warnings, and Operating Instructions contained in this User's Manual. Failure to do so could result in death or serious injury.

User's Manual

Installation, Operations, Maintenance and Parts

Part No. 6002496C

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INTRODUCTION

Welcome and thank you for choosing this DGB series safety gate from 4Front Engineered Solutions, Inc.

This User's Manual contains information that you need to safely install, operate and maintain the safety gate. It also contains a complete parts list and information about ordering replacement parts. Please **read this User's Manual** before using your new safety gate, and **keep it for reference** for service and parts.

SAFETY SIGNAL WORDS

You may find safety signal words such as DANGER, WARNING, or CAUTION throughout this Owner's Manual. Their use is explained below:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible death or injury.

▲ DANGER

Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

▲ WARNING

Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

▲ CAUTION

Indicates a potentially hazardous situation which, if not avoided may result in minor or moderate injury.

NOTICE

Caution used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

SAFETY PRACTICES

▲ WARNING

Do not operate this safety gate without training and authorization.

Before operating the safety gate in conjunction with a vehicle restraint, read and understand the User's Manual for the vehicle restraint.

Your safety and that of those around you depend on observing safe work habits. Always read and understand the instructions in this User's Manual before you use it.

GENERAL

Do not operate or service safety gate unless you have read and understood the instructions and warnings in this User's Manual.

Failure to follow the instructions or heed the warnings could result in death, injury or property damage. Proper care is your responsibility.

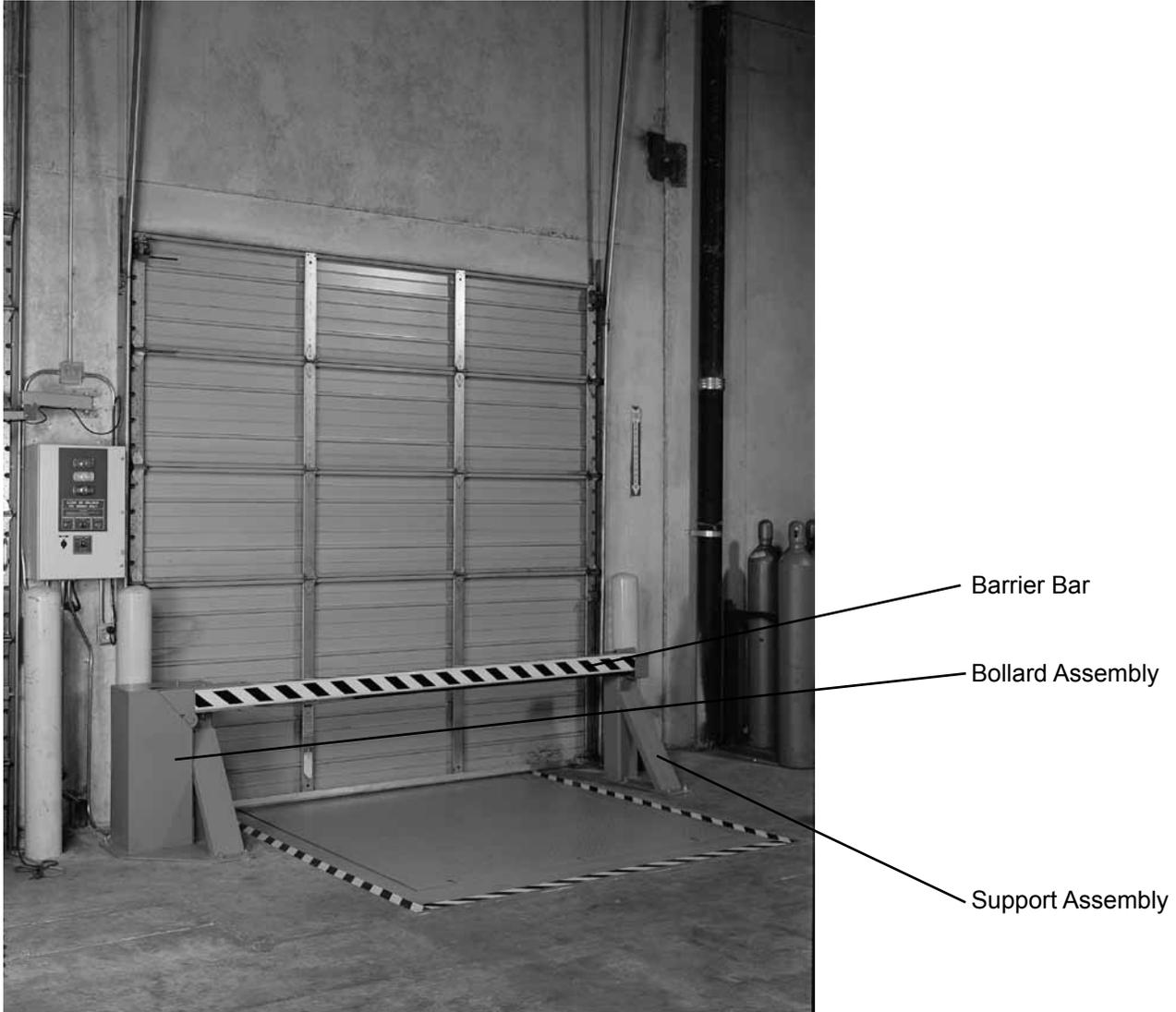
Contact your local authorized distributor for replacement manuals and decals.

Refer to this User's Manual for proper maintenance procedures.

COMPONENTS AND SPECIFICATIONS

The main components of the safety gate are shown below. See the Parts List for specific part numbers.

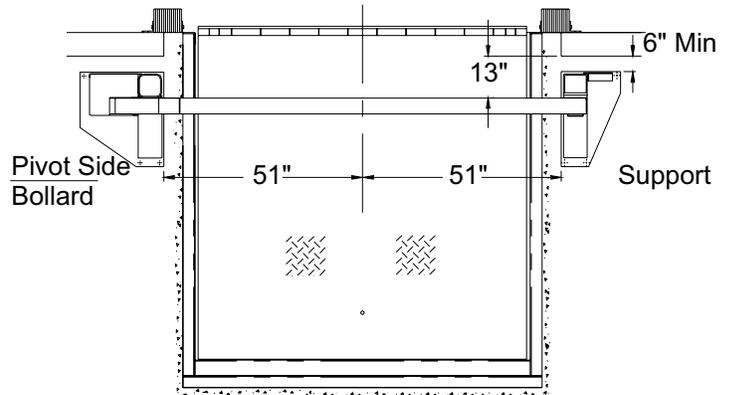
Fig. 1



INSTALLATION PROCEDURE

1. Determine the desired mounting distance from the wall.
 - * With the edge of the base plates mounted 6" from the wall (minimum recommended clearance) the safety gate will be located 13" from the wall.
 - * Note any protrusions from the wall that might impede the operation of the safety gate.
2. Set the inside edge of the pivot side/bollard base plate 51" from the center of the door.
3. Mount the pivot side base plate to the floor using four 3/4" anchor bolts.
4. Attach the beam to the pivot arm. (See Mechanical Assembly below).
5. Set the inside edge of the support base plate 51" from the centerline of the door.
 - * The distance from the wall to the inside edge on both base plates is the same.
 - * Align the bar to the catcher to ensure a straight unimpeded entry.
6. Mount the base plate using four 3/4" anchor bolts.

Fig. 2



Typical Dock Guard Barrier Installation

MECHANICAL ASSEMBLY

SAFETY GATE BEAM ATTACHMENT

1. To install the barrier bar, start by removing the shroud that is held on by six bolts.
2. Remove locknut from spring hold-down and completely disconnect from base.
3. Remove the two six inch attaching bolts and insert barrier bar.
4. Place shroud on pivot arm and replace six inch bolts. Do not over tighten.
5. Reconnect the spring to the hold down and tighten the locknut until the spring is held firmly in place. Do not over tighten the locknut.

COUNTERBALANCE SPRING TENSION ADJUSTMENT

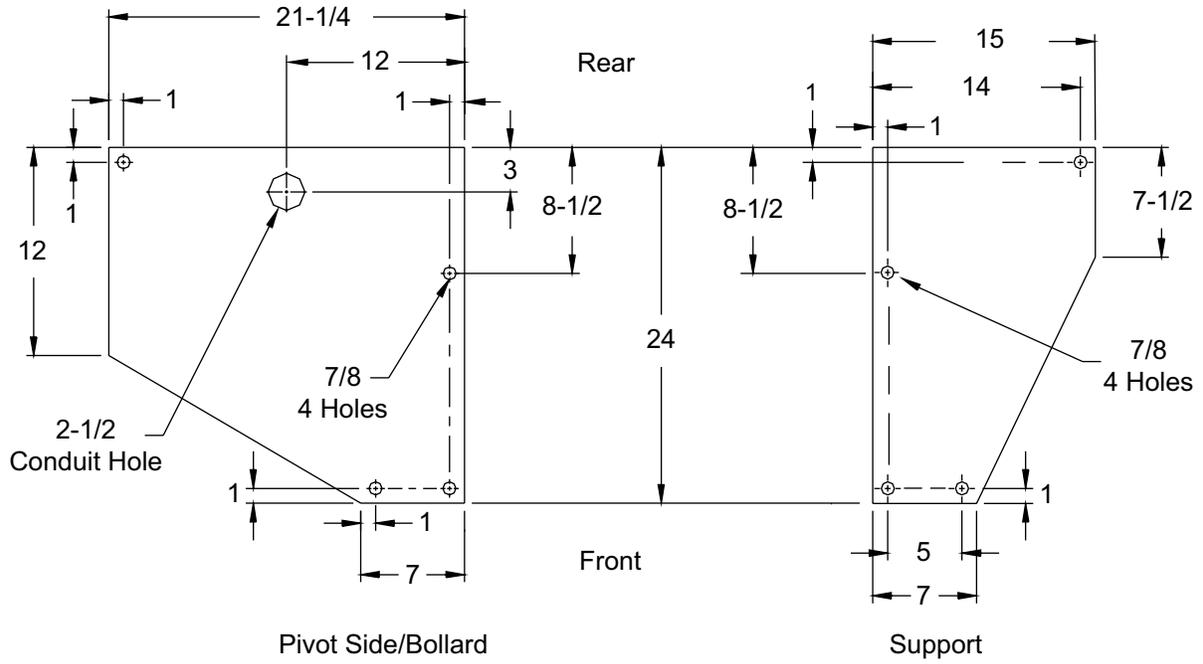
1. Normally this spring should not require adjustment. With a properly adjusted spring, the barrier bar will, when raised remain in the raised position—and when fully lowered the bar will not tend to float upward. If spring adjustment is required, use a 3/4" wrench to adjust the nut located next to the bottom of the spring.

NOTICE

DO NOT remove the nut while tension remains on the spring.

BASE PLATES MOUNTING AND CONDUIT HOLE LOCATIONS

Fig. 3



OPERATING INSTRUCTIONS

Fig. 4

1. In the fully lowered position the safety gate will be horizontal and supported by the support assembly.

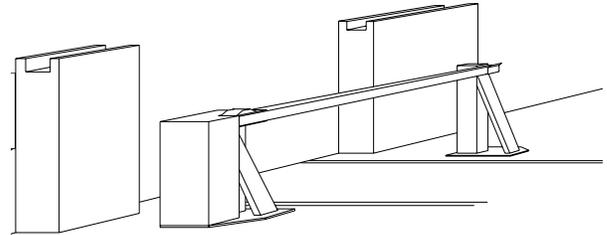


Fig. 5

2. To raise the safety gate, push the safety gate arm up manually.

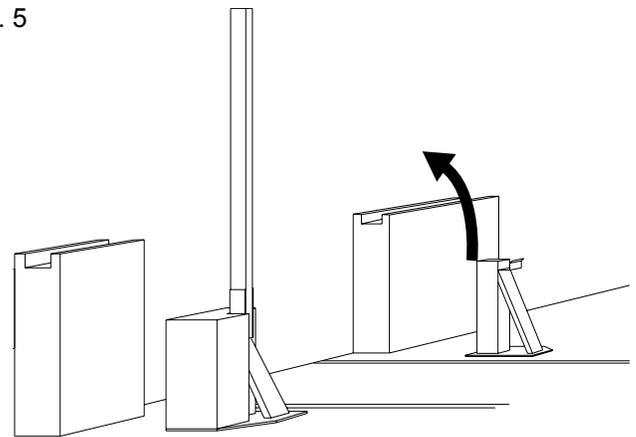
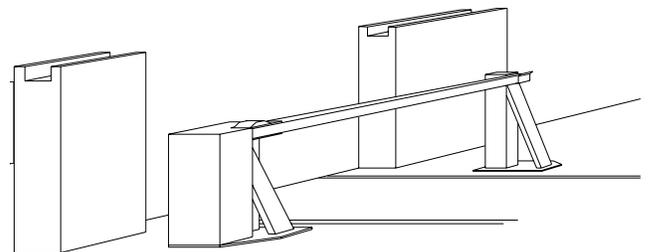


Fig. 6

3. To lower the safety gate, pull the safety gate arm downward until it is supported by the safety gate support assembly.



PREVENTIVE MAINTENANCE

To ensure the continued proper operation of your safety gate, perform the following preventive maintenance procedures.

WEEKLY

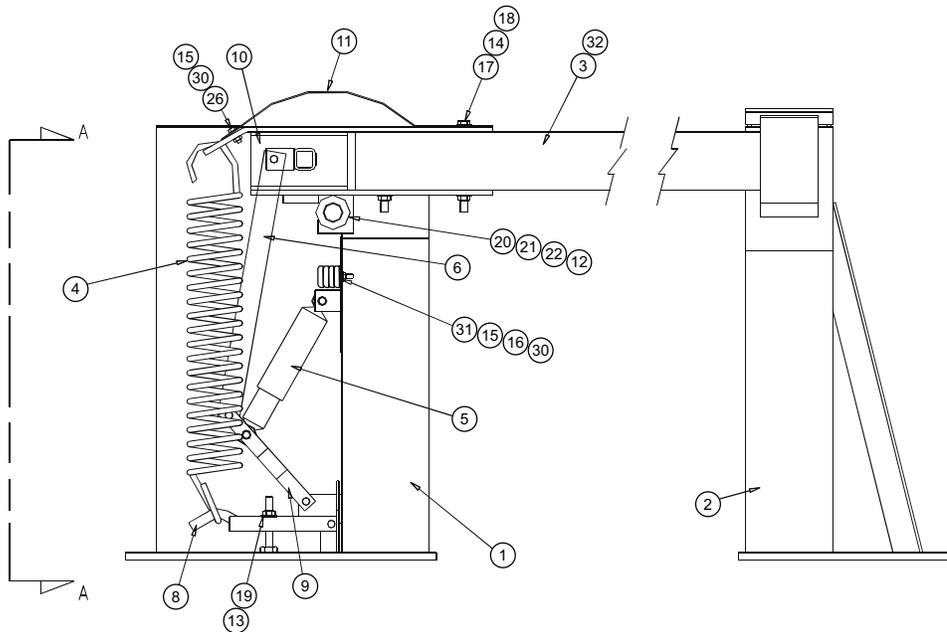
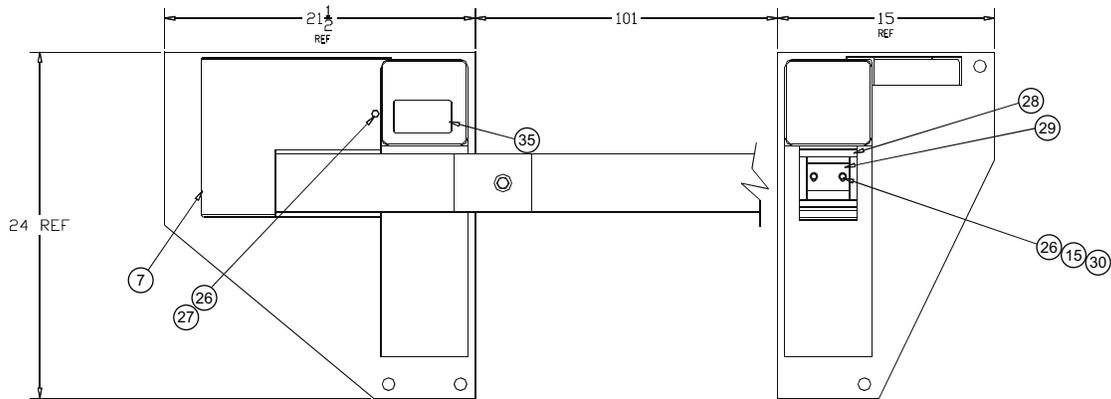
1. Remove all debris from the safety gate to ensure that its operation is unobstructed.

ANNUALLY

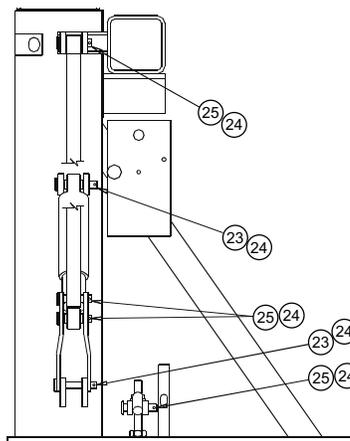
1. Remove the side cover item of the safety gate and remove any debris.
2. Check spring tension and adjust as necessary. See page 9.
3. Lubricate the pivot pin and spring with light oil.
4. Inspect the mechanism for any signs of wear, distortion, or cracked welds.

PARTS LIST — DGB SERIES SAFETY GATE

Fig. 7



Shroud Assy (Item 7) Not Shown
In This View For Clarity



View A-A
Spring (Item 4) Not Shown For Clarity

PARTS LIST — DGB SERIES SAFETY GATE, continued

Item	Qty.	Description	Part Number
1	1	Bollard Assy – Manual	8-9541
2	1	Support Assy	8-9542
3	1	Barrier Bar Assy	8-9547
4	1	Extension Spring – Large	333-044
5	1	Shock	328-729
6	1	Tube – Manual Push Bar	586-1804
7	1	Shroud Assy	8-9544
8	1	Spring Hold Down Assy	8-9545
9	2	Bar – Lower Shock Support	586-1803
10	1	Barrier Bar Pivot Assy	8-9543
11	1	Pivot Arm Guard	8-9546
12	1	Barrier Hinge Pin	586-1778
13	2	PW 3/4" I.D. x 1-1/2" O.D.	234-143
14	4	PW 1/2" Bolt Size	234-121
15	5	PW 1/4" Bolt Size	234-081
16	2	HHMB 1/4"–20 UNC x 2	000-369
17	2	HHMB 1/2"–13 UNC x 6	212-228
18	2	Lock Nut 1/2" Nylon	214-505
19	1	Lock Nut 1/2" Special 2-Way	214-245
20	2	EM – Bushing	821-032
21	2	PW 1-5/16" I.D. x 2-3/4" O.D.	234-165
22	1	Roll Pin 1/4" x 2"	231-124
23	2	Clevis Pin 1/2" DIA x 2-3/4"	231-502
24	6	Hitch Pin Clip	231-503
25	4	Clevis Pin 1/2" DIA x 2-1/4"	231-506
26	9	HHMS 1/4"–20 UNC x 1"	212-005
27	6	SN 1/4"–20 U Type Nut	214-816
28	2	Rubber Bumper	586-1801
29	1	Clip	586-1802
30	5	LN 1/4"–20 ESLOK	214-502
31	4	Rubber Arm Stop	341-028
32	1	Tape, Striped	156-258
33	1	Serial tag	6009761

LIMITED WARRANTY INFORMATION

4Front Engineered Solutions, Inc. warrants to and for the sole benefit of the original purchaser of DGB series safety gates by 4Front Engineered Solutions, Inc. (the "Products") that the Products shall be free from defects in material and workmanship, subject to the following expressed provisions:

Limited Base Warranty - All Products are warranted for a one year base period ("Base Warranty Period") commencing on the earlier of the date of 4Front Engineered Solutions, Inc. approved installation or the sixtieth (60th) day after the date of shipment. This warranty covers the repair or replacement of the defective Product units or components at 4Front Engineered Solutions, Inc.'s sole election and expense, including reasonable labor, travel and freight. If the Product is sold to the original purchaser through a 4Front Engineered Solutions, Inc. dealer or distributor, applicable charges for labor, travel, and freight shall not exceed those set forth in 4Front Engineered Solutions, Inc.'s dealer reimbursement policy.

THE ABOVE LIMITED WARRANTIES ARE IN LIEU OF ANY OTHER WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OR MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

In no event shall 4Front Engineered Solutions, Inc. or any of its subsidiaries be responsible for or liable to anyone, including any third parties, for special, indirect, collateral, punitive, incidental or consequential damages, even if 4Front Engineered Solutions, Inc. or any subsidiary has been advised of the possibility of such damages. Such excluded damages include, but are not limited to, loss of goodwill, loss of profits, loss of use, interruption of business, or other similar indirect financial loss.

This limited Warranty shall be void and of no effect (i) if a Product is altered or modified from its original condition as installed or as delivered at or from the factory, (ii) to the extent that the Product defect is the direct result of improper installation, operation beyond capacity or other than in accordance with 4Front Engineered Solutions, Inc. instructions abuse, careless or negligent use, or failure to maintain the Product as recommended by 4Front Engineered Solutions, Inc. or (iii) if the original purchaser does not notify 4Front Engineered Solutions, Inc.'s Warranty Department of the defect within ninety (90) days after the Product defect is discovered.

Please direct questions about your safety gate to your local distributor or to 4Front Engineered Solutions, Inc.

Your local 4Front Engineered Solutions, Inc. distributor is:

Corporate Head Office:

1612 Hutton Dr. Suite 140

Carrollton, TX. 75006

Tel. (972) 466-0707

Fax (972) 323-2661