

OWNER'S MANUAL



Mechanical Dock Leveler

Box Beam w/Maintained Tilt
"I"-Beam w/Maintained Tilt

TABLE OF CONTENTS

1. Receipt Inspection.....	3
2. Routine Servicing And Maintenance.....	3
3. Operator Daily Inspection.....	3
4. Planned Maintenance	4
5. Safety Information - General.....	4
6. Safety Signs And Safety Messages.....	5
7. General Safety Rules.....	7
8. Safety Procedures.....	8
9. Dock Leveler - Functional Description	9
10. Operator Maintenance And Care	10
10.1 Daily Safety Inspection	10
10.2 Visual Checks	10
10.3 Operator's Daily Check List	12
10.4 Operating Hazards.....	13
11. Before Operating The Dock Leveler	16
11.1 Load Handling.....	16
11.2 Traveling With A Load	16
12. Basic Operating Procedures	17
12.1 Deploying the Dock Leveler - Above Level.....	17
12.2 Deploying the Dock Leveler - Below Level	18
12.3 Deploying the Dock Leveler - Below Level : End Loading.....	18
12.4 Stowing the Dock Leveler	19
13. Operating Procedure – Illustrated	20
14. Mechanical Fall Safe and Below Level Control Operation.....	22
14.1 Overriding the Fall Safe Option	22
15. Planned Maintenance	23
15.1 General	23
15.2 Safe Maintenance Practices	24
15.3 Planned Maintenance Intervals	25

16. Mechanical Dock Leveler Components	26
16.1 Mechanical Dock Leveler.....	26
17. Parts Listings - Mechanical Dock Leveler	28
17.1 I-Beam/Floating Rear Hinge - 30,& 35,000 lb. capacity	28
17.2 Deck SubAssembly - 30 & 35,000	32
17.3 I-Beam/Floating Rear Hinge - 40,& 45,000 lb. Capacity	36
17.4 Deck Sub-Assembly - 40,& 45,000 lb. Capacity.....	40
17.5 I-Beam/Floating Rear Hinge - 50,000 lb. Capacity	44
17.6 Deck Sub-Assembly - 50,000 lb. Capacity	48
17.7 Box Beam/Floating Rear Hinge - 25,000 lb. Capacity	52
17.8 Box Beam/Floating Rear Hinge - 30,000 lb. Capacity	56
17.9 Box Beam/Floating Rear Hinge - 35,000 lb. Capacity	60
17.10 Hold Down Box Assembly	64
17.11 Safety Side Skirts	66
17.12 Side Safety Skirts	67
17.13 Weatherseals	68
17.14 Dock Bumpers	72
18. Service / Maintenance History	76
19. Warranty.....	77

1. Receipt Inspection

This equipment has been thoroughly inspected prior to leaving the factory. Before placing the equipment in service it should be thoroughly checked for damage or loss occurring in transit.

IMPORTANT! : IF ANY DAMAGE OR LOSS IS EVIDENT, A CLAIM MUST BE MADE AGAINST THE CARRIER.

2. Routine Servicing And Maintenance

Regular maintenance and care of the Dock Leveler is very important for cost and operation efficiency and more importantly; operator safety. A faulty Dock Leveler is a potential source of danger to the operator, and to other personnel working near it. As with all quality equipment, keep the Dock Leveler in good operating condition by following the recommended schedule of maintenance.

Failure to do so could also void the manufacturer's warranty.

Complete the Warranty Validation Form provided with this manual and return it to factory.

3. Operator Daily Inspection

Safety and Operating Checks

A Dock Leveler should always be examined by the operator, before any use; to be sure it is safe to operate. The importance of this procedure is emphasized in this manual with a brief illustrated review and later with more detailed instructions. The manufacturer recommends making multiple photocopies of *Section 10.3 : Operator's Daily Checklist*. The operator should make a daily inspection prior to use; filling out this form in order to keep a daily record of operation and maintenance issues.

4. Planned Maintenance

In addition to the daily operator inspection, the manufacturer recommends and local Government regulations may require that a planned maintenance (PM) and safety inspection program be performed by a trained and authorized service technician on a regular basis to maintain the equipment in safe operating condition. The PM will provide an opportunity to make a thorough inspection of the safety and operating condition of the Dock Leveler. Necessary adjustments and repairs can be done during the PM, which will increase the life of components and reduce unscheduled downtime and increase safety. The PM can be scheduled to meet any particular application and Dock Leveler usage.

The procedures for a periodic planned maintenance program that covers inspections, operational checks, cleaning, lubrication, and minor adjustments are outlined in this manual. An authorized dealer or distributor is prepared to assist with a Planned Maintenance Program by trained service personnel who possess expertise in Dock Leveler safety and efficiency.

5. Safety Information - General

Dock Levelers are specialized equipment with unique operating characteristics, designed to perform a specific job. Their function and operation is not like any other piece of equipment. They require specific instructions and rules for safe operation and maintenance.

In general, dock equipment accidents that result in injury or death can be the result of:

- Operator not properly trained
- Operator not experienced with Dock Leveler operation
- Basic safety rules not followed
- Dock Leveler not maintained in safe operating condition

This manual is designed to assist the operator become knowledgeable with respect to Dock Leveler safety. This manual illustrates and instructs the operator about safety inspections and the important general safety rules and hazards of Dock Leveler operation. It describes the special components and features of the Dock Leveler and explains their functions. The correct operating procedures are shown and explained. Illustrations and important safety messages are included for clear understanding.

The operator's manual is not a training manual. It is a guide to help trained and authorized operators safely operate their Dock Leveler by emphasizing and illustrating the correct procedures. However, it cannot cover every possible situation that may result in an accident. Watch for hazards in all work areas and avoid or correct them. Do not allow potentially hazardous situations to go ignored or uncorrected. Read and understand all the information in this manual. Be aware of and obey all company safety rules! Be sure that all equipment is maintained in a safe condition. Do not operate a damaged or malfunctioning Dock Leveler. Practice safe operation every time the Dock Leveler is used.

This manual is intended to be readily available. Keep it near the Dock Leveler as a ready reference for anyone who may operate or service it. If the Dock Leveler being operated is not equipped with a manual, request to obtain one and have it located near the Dock Leveler. An authorized dealer or distributor is readily available to answer questions about Dock Leveler operation and maintenance and will provide additional information should it be required.

6. Safety Signs And Safety Messages

Improper operation can cause accidents. Don't take chances with incorrect or damaged equipment. **Read** and **understand** the procedures for safe operation and maintenance outlined in this manual. Don't hesitate to ask for help.

Stay alert! Follow safety rules, regulations, and procedures. Avoid accidents by recognizing dangerous procedures or situations before they occur.

Safety signs and messages are placed in this manual to provide instructions and identify specific areas where potential hazards exist and special precautions should be taken. Know and understand the meaning of these instructions, signs, and messages. Damage to the Dock Leveler, death, or serious injury may result if these messages are not followed. If warning decals are damaged, they must be replaced. Contact an authorized dealer or distributor for replacements.

Place Safety Placard on wall near dock in clear view of operator.

NOTE : This message is used when special information, instructions or identification are required relating to procedures, equipment, tools, capacities and other special data.

IMPORTANT! : This message is used when special precautions should be taken to ensure a correct action or to avoid damage to or malfunction of the Dock Leveler or a component.



CAUTION! : This message indicates a potentially hazardous situation which, if not avoided, *may result in minor or moderate injury*



WARNING! : THIS MESSAGE INDICATES A POTENTIALLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY.



DANGER! : THIS MESSAGE INDICATES AN IMMINENTLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY.

7. General Safety Rules

- Be familiar with the Operating Principles of the Dock Leveler before attempting to operate it. Refer to Section 10.4 : Operating Procedures,.
- Do not exceed the Rated Capacity of the Dock Leveler as stated on the identification plate located on the right front side.



1. Dock Leveler model number or registered name.
 2. Dock Leveler serial number – An identification number assigned to this particular Dock Leveler and should be used when requesting information or ordering service parts for this Dock Leveler from an authorized dealer or distributor.
 3. Dock Leveler Capacity Rating – **Do not overload the dock leveler.**
- Do not allow untrained personnel to operate the Dock Leveler.
 - Read this entire manual before attempting to operate the Dock Leveler.

8. Safety Procedures

1. Always keep the work area clean and free of litter.
2. Never allow dirt or debris to enter the pit area by way of the side openings.
3. Always clean all side openings of all dirt and debris.
4. Always clean away all dirt and debris from the lip hinge,
5. Always clean up dry and liquid spills immediately when they occur.
6. Always maintain proper lighting in the work area.
7. Never leave the Dock Leveler unattended in the raised position.
8. Always observe that the lip is seated inside the lip keepers after lowering into the stowed position.
9. Never leave loads sitting on the Dock Leveler.
10. Never attempt to raise the Dock Leveler if someone is standing on it.
11. Never operate a broken or damaged Dock Leveler. Insist on immediate repairs by a qualified service technician.
12. Never attempt to perform repairs. Always defer even the smallest repairs to a qualified service technician.
13. Never try to lift or move any part of the Dock Leveler manually.
14. Never allow the use of the Dock Leveler if the transporter vehicle is not secured by a restraint device or wheel chocks.
15. Never allow use of the Dock Leveler if the full width of the lip is not in full contact with and fully supported by a transporter vehicle load bed.
16. Always secure and center loads on the lift truck forks. Loose or unbalanced loads are dangerous.
17. Always be aware of overhead clearance. Know the height of the lift truck, with and without a load. Check the clearance when crossing the dock leveler.
18. Always keep the lift truck load low and tilted back.

9. Dock Leveler - Functional Description

The Dock Leveler is intended to be used as a bridge located between a loading dock floor surface and the rear deck upper surface (load bed) of a transporter vehicle.

The Dock Leveler upper deck plate complete with a hinged, vertically hanging lip plate is located flush with the floor surface and the edge of the dock, in a shallow pit.

The rear deck surface of a Transporter Vehicle is parked and blocked in place against the outer wall of the loading dock, in working alignment with the Dock Leveler. A Dock Leveler and Truck Restraint are ideal for this application. Consult your local Dealer/Distributor.

The Dock Leveler is operated allowing tensioned springs to raise the front of the Deck. The hinged lip plate raises with the deck and its leading edge swings out horizontally over the rear of the transporter vehicle, as the deck reaches its fully raised position.

The Dock Leveler operator walks up the sloped deck and his/her body weight causes the deck and the extended lip to lower together until the underside of the extended lip makes contact on the load bed of the transporter vehicle.

A bridge is now formed that is supported at the building end by the dock floor and at the vehicle end by the vehicle load bed.

No other means of support is provided when in this position.

During loading / unloading operations, the deck and lip automatically follow the raising and lowering movement of the transporter vehicle.

The Dock Leveler is returned to its original stored position by the Dock Leveler operator. In the stored position, both ends of the Dock Leveler upper deck plate are supported. The building end is supported by the dock floor and the vehicle end is supported by the lip, lip keepers, and the pit floor.

10. Operator Maintenance And Care

10.1 Daily Safety Inspection

Before using a Dock Leveler, it is the operator's responsibility to check its condition and be sure it is safe to operate.

Check for damage and maintenance problems; have repairs made before the Dock Leveler is operated. Unusual noises or problems must be reported immediately to a supervisor or other designated authority.

Never attempt to perform repairs. Always defer even the smallest repairs to a qualified service technician. Have a qualified Dock Leveler Service Technician make repairs using parts approved by the manufacturer.

Do not operate a Dock Leveler if it is in need of repair. If it is in unsafe condition, do not commence operation and report the condition to the proper authority. If the Dock Leveler becomes unsafe during operations, stop operating the Dock Leveler, report the problem immediately, and have it corrected.

Dock Levelers should be inspected every day, at the start and end of each shift. In general, the daily inspection should include the visual and functional checks described on the following pages. As an aid in carrying out this inspection the manufacturer has prepared a form for reproduction and daily use. *Refer to Section 10.3 : Operators Daily Checklist.* The manufacturer recommends that this form be used to make a daily record of inspection and Dock Leveler condition.

10.2 Visual Checks

First, perform a visual inspection of the Dock Leveler and its major components:

1. Walk completely around the Dock Leveler inside and out. Take note of obvious damage that may have been caused by operation during the last shift.
2. Check that all capacity, safety, and warning plates or decals are attached and legible.
3. Inspect for damaged or missing parts, rust, corrosion, bent parts, cracks, etc.
4. Carefully inspect the hinge points for cracks, breaks, bending, twists, and wear.

Visually inspect the Dock Leveler for signs of structural damage or mechanical malfunction as it is operated throughout the day. Be alert to abnormal sounds or operation and visually observe the condition of all components such as side safety toe guards when they become visible above floor level.



DANGER! : DO NOT ENTER THE PIT AREA BELOW THE DOCK LEVELER. SERIOUS PERSONAL INJURY AND/OR DEATH MAY RESULT.

With Dock Leveler in its stowed position, clean away wood splinters, nails, and other debris from the upper hinge surface.



WARNING! THE UPPER HINGE POINT IS A HAZARDOUS PINCH POINT. DO NOT USE FINGERS OR HANDS TO REMOVE FOREIGN MATERIALS. USE APPROPRIATE TOOLS.

Clean up spills and debris from the dock area floor and the Dock Leveler deck immediately when they are observed.

If all the Daily Inspection checks are normal or satisfactory, the Dock Leveler can be operated.

Make a record on *Section 10.3 : Operator's Daily Checklist* of all problems that are detected. Review the checklist to be sure it has been completed and turn it in to the person responsible for Dock Leveler Maintenance. Be sure any unusual noises or problems are investigated immediately.

Do not operate a Dock Leveler that has a maintenance problem or is not safe to operate.

10.3 Operator's Daily Check List

INSTRUCTIONS FOR USE: Indicate "OK for Use" with a check mark ✓ in the appropriate box of each inspection point.

- Circle Check: Walk around the dock leveler and take note of obvious damage that may have been caused by operation during the last shift.
- Check that all capacity, safety, identification plates, etc. are attached and legible.
- Inspect for damaged or missing parts, rust, corrosion, bent parts, cracks, etc.
- Carefully inspect the hinge points for cracks, breaks, bending, twists, and wear.
- Inspect the operating release ring and chain for damage or sharp edges
- With dock leveler in stowed position, clean away wood splinters, nails and other debris from the upper lip-hinge surface by sweeping with broom.
- Check for missing or damaged dock bumpers mounted on dock face.
- Clean up spills from the dock area floor and the dock leveler immediately when they are observed.
- Visually inspect the dock leveler for signs of structural damage or mechanical malfunction as the Dock Leveler is operated throughout the day. Be alert to abnormal sounds or operation and visually observe the condition of components such as side safety toe guards when they become visible above floor level.

Explain faults briefly in the space provided below.

INSPECTED BY: _____ **DATE:** _____

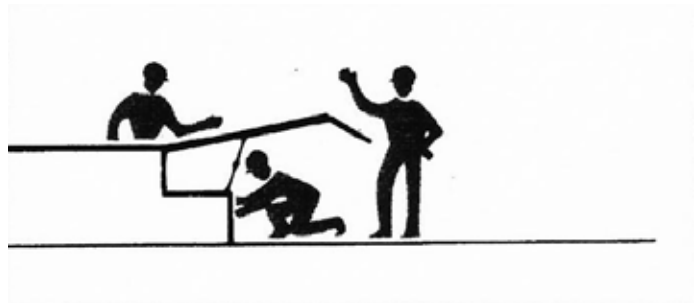
Forward checklist to the person responsible for dock leveler maintenance.

10.4 Operating Hazards

- Do not operate the dock leveler without being trained to do so.
- Know and follow all of these warnings and instructions:



1. Stay clear of the dock leveler when the transporter vehicle is entering or leaving the area.



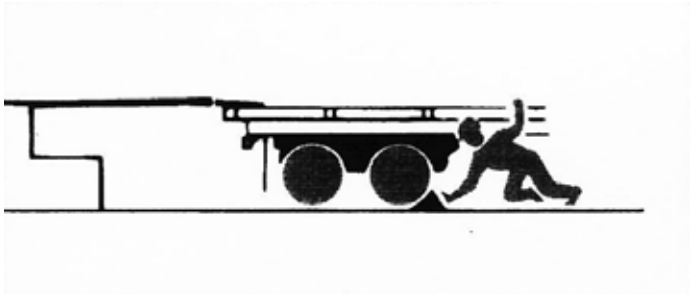
2. Do not use or move the dock leveler if anyone is under or in front.



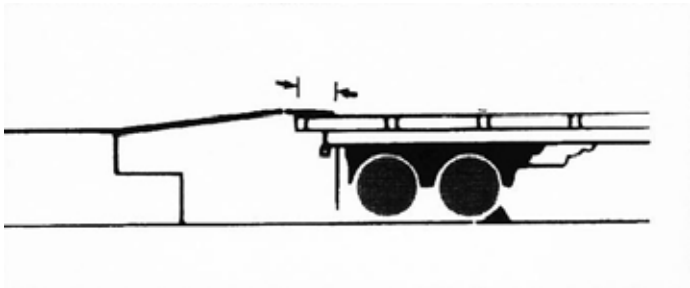
3. Keep hands and feet clear of pinch points.



4. Keep a safe distance from both side edges.



5. Chock or restrain all transporter vehicles.



6. The lip plate must overlap the bed of the transporter vehicle by a minimum of 4" (100mm).



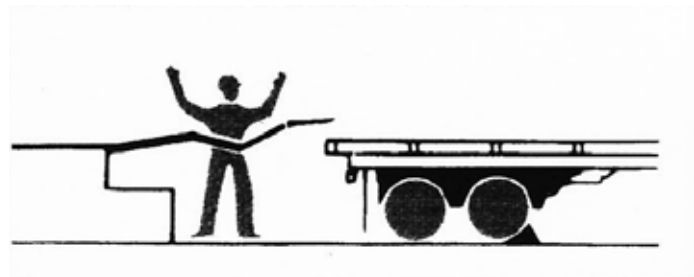
7. Do not use the dock leveler if the transporter vehicle exceeds the service range of 12" (305mm) above or 10" (255mm) below the dock.



8. Do not exceed the rated capacity as indicated on the name plate.



9. Do not leave any equipment or material unattended on the dock leveler.



10. Do not use a broken or damaged dock leveler.

Note : These Safety Procedures may also be found on a mountable Safety Placard, Part # 038-544E

11. Before Operating The Dock Leveler

Anyone who is required to operate a Dock Leveler must read and understand the information in this Owner's Manual and must be trained and authorized before initial operation.

The Owner's Manual should be stored where it can be made readily available.



WARNING! : A DOCK LEVELER CAN BE A POTENTIAL THREAT TO PERSONS AND PROPERTY IF NOT USED PROPERLY. SAFE OPERATION IS THE RESPONSIBILITY OF THE OPERATOR.

11.1 Load Handling

Handle only loads that are within the Dock Leveler rated capacity as shown on the nameplate. This includes the weight of the fork truck and the weight of its load.

Handle only stable or safely arranged loads. Take the time to correctly stack and band loose items. Center the load on the Lift Truck Forks.

11.2 Traveling With A Load

Travel with load or carriage as low as possible across the Dock Leveler deck. Never travel with the load or carriage raised (elevated) in a high position. Do not elevate the load until clear of the Dock Leveler.

Use special care when handling and traveling with long, high, or wide loads-to avoid losing the load, striking bystanders or obstructions. Do not turn until clear of the Dock Leveler.

Watch clearances around the Dock Leveler during travel. Look out for obstructions, especially overhead.

The impact of moving in and out of the trailer may cause the trailer to creep forward or move. A Truck Restraint that is used properly will prevent this situation from occurring. The following is a list of other prevention measures:

- Apply trailer brakes.
- Use wheel chocks.
- Use other suitable trailer-to-dock locking system if available.

12. Basic Operating Procedures

12.1 Deploying the Dock Leveler - Above Level

The Dock Leveler deck is raised by firmly pulling up the Hold Down release ring in the right rear corner of the deck and holding until the deck is fully raised. The lip plate automatically swings up and extends to a horizontal position as the deck is rising. The deck is lowered by the operators weight as he walks up its slope. The lip plate will begin to return to the pendant position as soon as the dock reaches full height. For this reason, the operator must begin the walk-down portion of the procedure very soon after the deck reaches full height and the release ring has been released. Failure to do this may cause the lip plate to drop prematurely, failing to make contact with the transporter vehicle load bed and requiring the procedure to be started over. When the lip makes firm contact with the transporter vehicle load bed, the unit is ready for traffic.



WARNING! : SECURE THE TRANSPORTER VEHICLE WITH A VEHICLE RESTRAINT, WHEEL CHOCKS OR OTHER METHOD BEFORE COMMENCING TRAFFIC ACROSS THE DOCK LEVELER.

During use, the Dock Leveler deck will dynamically articulate itself to accommodate vertical motion of a transporter vehicle. It raises and lowers automatically to accommodate movements of the transporter vehicle load bed. However, the manufacturer recommends the use of a vehicle restraint, wheel chocks or other method.

Refer to Section 11.6 : Operating Procedures for illustrations of operating procedures.

NOTE : Releasing the Hold Down release ring at any time will stop the upward travel of the deck.

12.2 Deploying the Dock Leveler - Below Level

In situations where the vehicle load bed is below the level position of the deck surface, the operation procedure is the same as previously stated in *Section 12.1 : Deploying the Dock Leveler*. However, the operator must immediately travel the deck surface to walk it down before the lip plate falls to pendant position. If the lip plate fails to make contact with the transporter vehicle load bed, the procedure must be started over.

NOTE : On dock levelers equipped with a Fall Safe Option, the extent of below level travel is limited to 2-1/2". Refer to Section 13 : Mechanical Fall Safe and Below Level Control Operation

12.3 Deploying the Dock Leveler - Below Level : End Loading

Refer also to Section 13 : Mechanical Fall Safe and Below Level Control Operation

This section describes operation of a dock leveler in situations where contact of the dock leveler lip plate with the vehicle load bed is not possible (e.g. loading/unloading the first skid or pallet from the transporter vehicle load bed where there is insufficient surface area to extend the dock leveler lip plate.)

The Dock Leveler deck is raised by firmly pulling up the Hold Down release ring in the right rear corner of the deck and holding until the deck rises to full height. The operator then releases the Hold Down release ring and walks down the deck. The deck is lowered by the operators weight as he walks up its slope. The operator must properly time the walk down such that the dock leveler lip plate folds in enough to miss the transporter vehicle load bed, but not enough for it to engage the lip keepers.

The lip plate is allowed to remain in the pendant position and is allowed to slip in between the rear of the transporter vehicle load bed and the building foundation without engaging the lip keepers. When unloading a transporter vehicle load bed and the first skid or pallet has been removed, the dock leveler must be reset with the lip plate in the extended position. When the lip makes firm contact with the transporter vehicle load bed, the unit is ready for traffic.



WARNING! : NO TRAFFIC ACROSS THE DOCK AND ON TO THE TRANSPORTER VEHICLE LOAD BED SHOULD TAKE PLACE WITHOUT THE DOCK LEVELER LIP PLATE FIRMLY IN PLACE.

12.4 Stowing the Dock Leveler

When traffic across the dock leveler has ceased and the transporter vehicle is preparing to depart, the dock leveler needs to be returned to the stowed position.



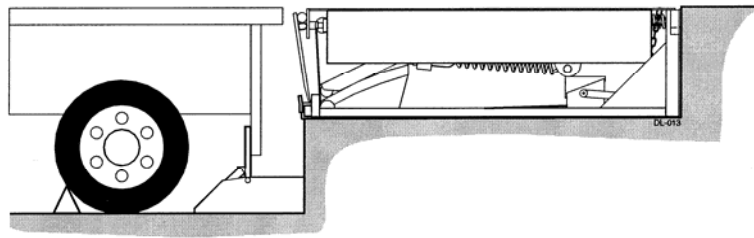
WARNING! : THE DOCK LEVELER MUST RETURNED TO THE STOWED POSITION WITH THE LIP PLATE INSIDE THE LIP KEEPERS BEFORE RELEASING THE TRANSPORTER VEHICLE FROM ANY RESTRAINTS AND ALLOWING THE TRANSPORTER VEHICLE TO DEPART.

To return the dock leveler to the stowed position, the operator pulls on the hold down release ring until the deck raises enough for the lip plate to clear the transporter vehicle load bed. The operator then releases the Hold Down release ring and walks down the deck. The operator must allow time for the lip plate to fold in completely. The deck is walked down to the stowed position, ensuring that the lip is located inside the lip keepers.

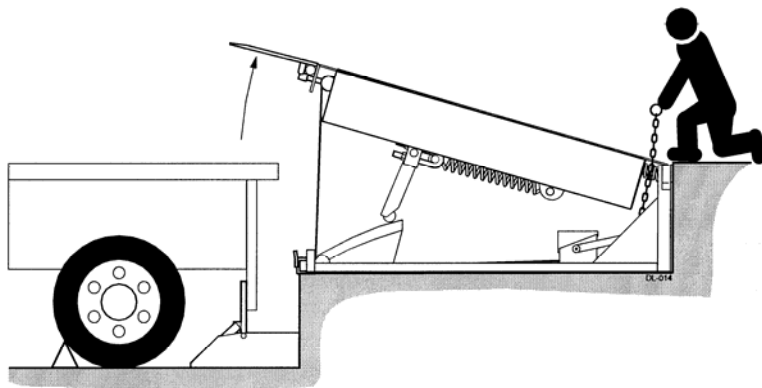
Refer to Section 12.5 : Operating Procedures for illustrations of operating procedures.

NOTE : Releasing the Hold Down release ring at any time will stop the upward travel of the dock.

13. Operating Procedure – Illustrated

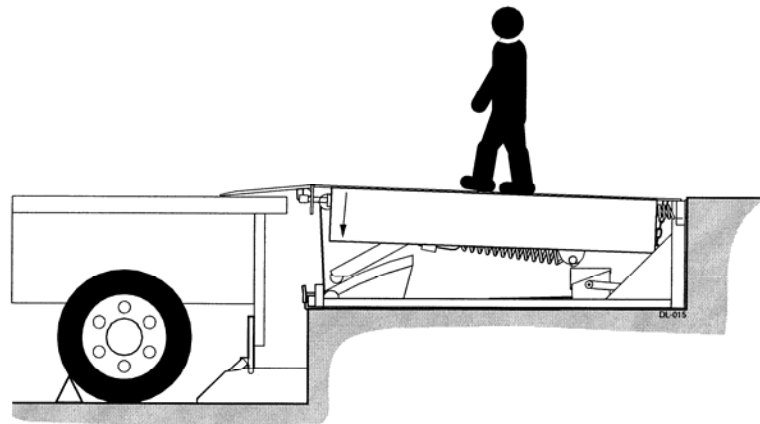


1. In the stowed position, the lift springs are stretched and the lifting arm is at the base of the cam.

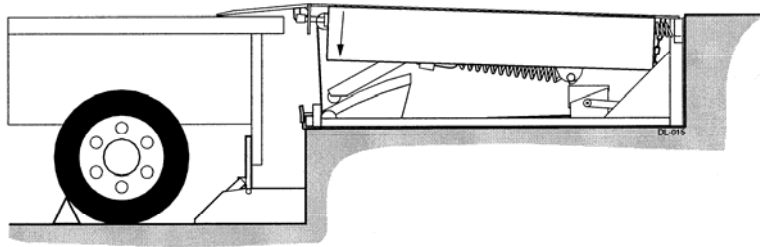


2. To raise the dock leveler, the Hold Down release ring is pulled firmly up and held. As the deck rises, the lip plate will extend.

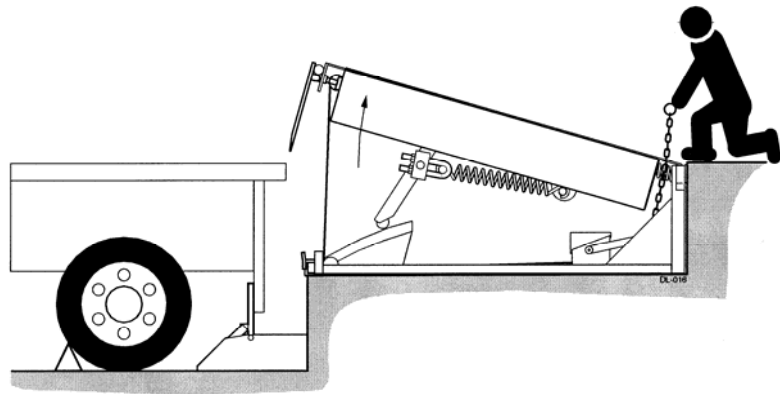
NOTE : Releasing the hold down release ring will stop the upward travel of the dock.



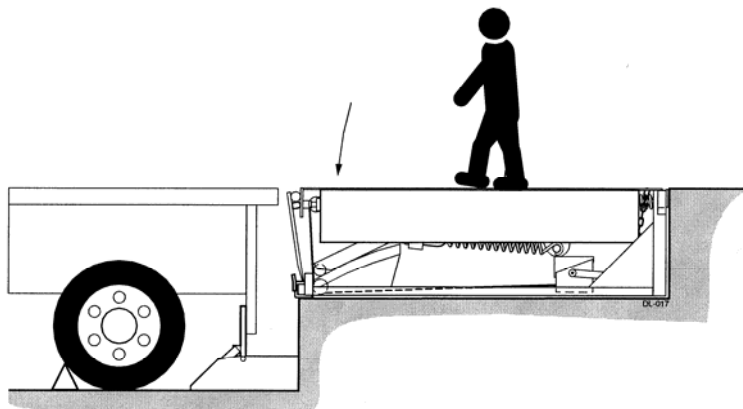
3. Once the deck is in the raised position, the operator walks the deck down to the loading / unloading position.



4. The loading/unloading operation is performed and completed.



5. To return the deck to the stowed position, the Hold Down release ring is pulled and held just long enough for the lip plate to clear the transporter vehicle load bed. After the lip plate has dropped to the pendant position, the operator can then begin to walk down the deck.



11. The operator walks down the deck until it reaches the stowed position, ensuring that the lip is located inside the lip keepers.

14. Mechanical Fall Safe and Below Level Control Operation

14.1 Overriding the Fall Safe Option

The Mechanical Fall Safe Option consists of two Support Legs that are held rigidly in a vertical position by springs to arrest downward travel of the deck by approximately 2-1/2" (60mm) below level position.

In situations where the deck needs to be operated below cross-traffic position by more than 2-1/2", the Fall Safe Support Legs need to be retracted by using the Control Activator located at the left front corner of the deck. The Control Activator pull ring retracts the Support Legs to allow the dock leveler to travel a full 12" below level position. The Support Legs will return to the normal pendant position when the Control Activator ring is released and the deck is raised high enough by operation of the Hold Down release ring.

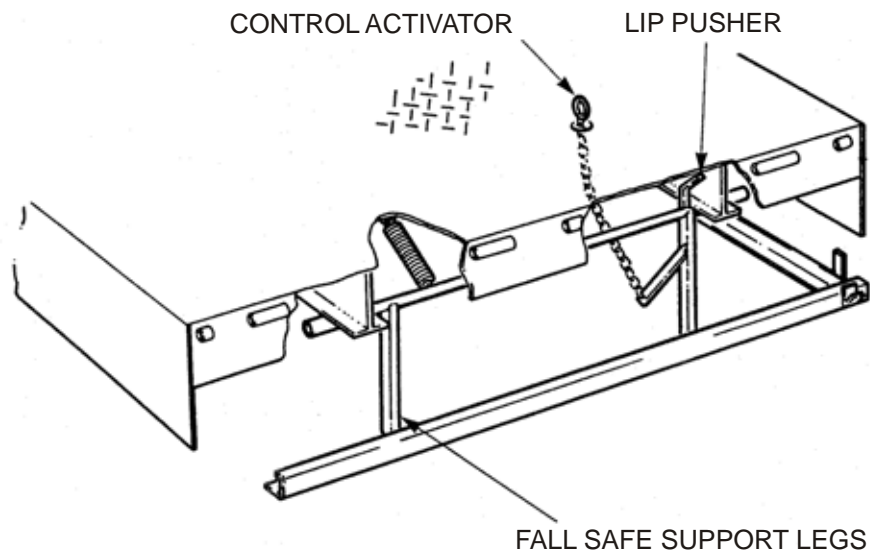


Figure 1 : Overriding Fall Safe Control

15. Planned Maintenance

15.1 General

NOTICE : ONLY TRAINED AND AUTHORIZED PERSONNEL should perform Planned Maintenance. Local Dealers and Distributors are prepared to help owners put in place a Planned Maintenance program for checking and maintaining their Dock Levelers according to applicable safety regulations.

Perform *Section 10.3 : Operator's Daily Checklist* before operating the Dock Leveler. The purpose of this daily examination is to check for any obvious damage and maintenance problems, and to have minor adjustments and repairs made to correct any unsafe condition.

In addition to the operator's daily inspection, the manufacturer recommends that the owner set up and follow a periodic planned maintenance (PM) and inspection program. Performed on a regular basis by trained personnel, the program provides thorough inspections and checks of the safe operating condition of the Dock Leveler. The "PM" identifies needed adjustments, repairs, or replacements so they can be made before failure occurs. The specific schedule (frequency) for the PM inspections depends on the particular application and Dock Leveler usage.

The manufacturer does recommend a Planned Maintenance be performed every three months based on single daily shift operations and more frequently for multiple shifts. Failure to do so may void the manufacturer's warranty

This Section recommends typical Planned Maintenance and Lubrication Schedules for items essential to the safety, life, and performance of the Dock Leveler.

If additional information on the care and repair of the Dock Leveler is required, consult an authorized dealer or distributor.

15.2 Safe Maintenance Practices

The following instructions have been prepared from current industry and government safety standards applicable to Dock Leveler operation and maintenance. These recommended procedures specify conditions, methods, and accepted practices that aid in the safe maintenance of industrial Dock Levelers. They are listed here for the reference and safety of all workers.



WARNING! : DOCK LEVELERS WILL BECOME HAZARDOUS IF MAINTENANCE IS NEGLECTED.

1. Maintenance and inspection of all Dock Levelers shall be performed in conformance with the manufacturer's recommendations.
2. Follow a scheduled planned maintenance, lubrication, and inspection system. Maintain a recorded history of repairs and inspections. *Section 10.3 : Operator's Daily Checklist* and *Section 17 : Service History* are provided in this manual for this purpose.
3. Only trained and authorized personnel are permitted to maintain, repair, adjust, and inspect Dock Levelers and must do so in accordance with the manufacturer's specifications.

15.3 Planned Maintenance Intervals

Arrange for a qualified Dock Leveler Service Technician to perform regularly scheduled planned maintenance on the Dock Leveler every three months for Single Shift Operation or monthly for Multi-Shift Operations. Call an authorized dealer or distributor for further details.



WARNING! : SAFETY MAINTENANCE STRUT MUST BE IN PLACE UNDER THE DECK AND LIP BEFORE ENTERING THE PIT AREA.

Maintenance Sequence:

1. Cleaning, including pit area.
2. Visual inspection of all components.
3. Lubrication, as required.
4. Test operate all functions.
5. Adjustments, if required.

16. Mechanical Dock Leveler Components

16.1 Mechanical Dock Leveler

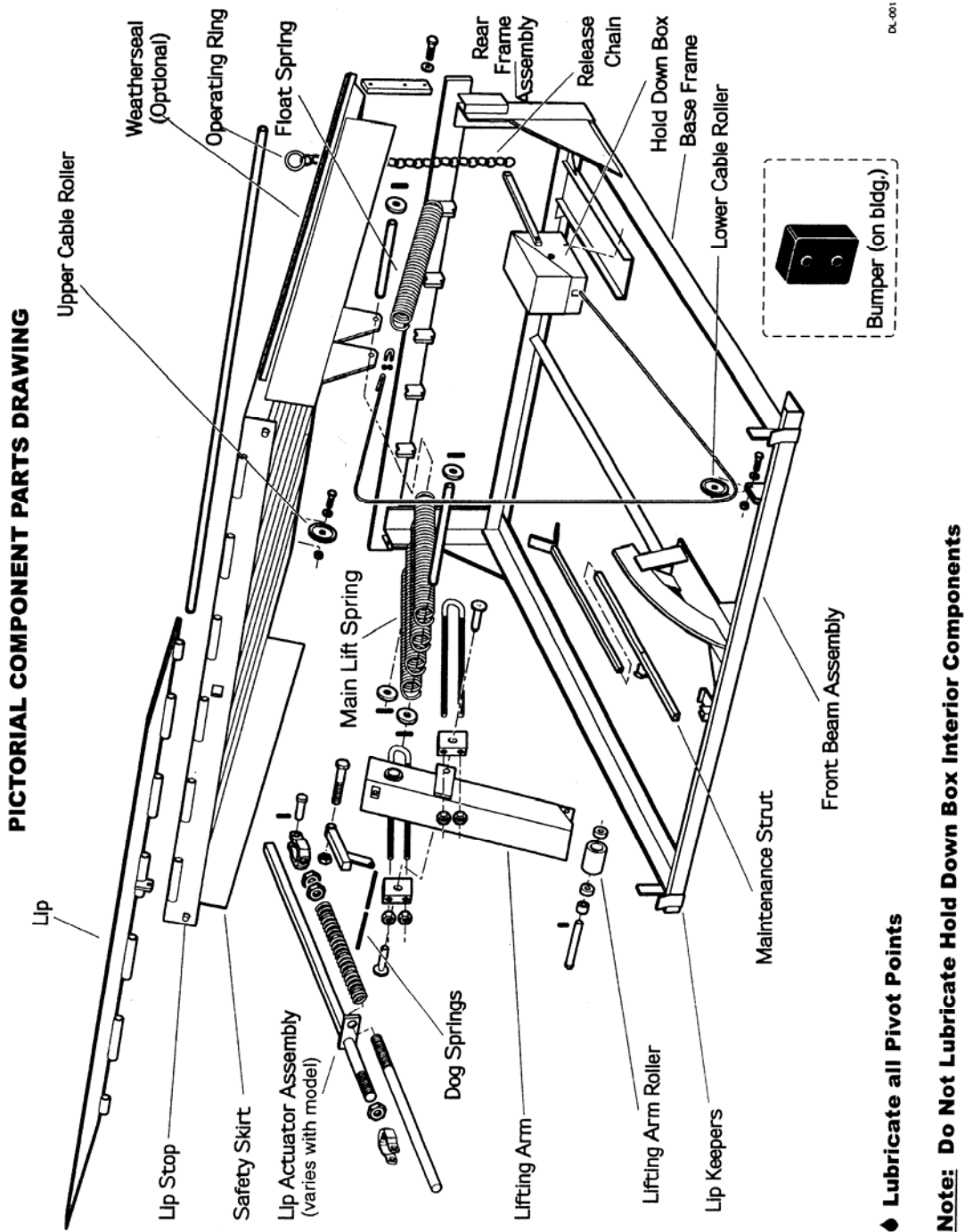


Figure 2 : Mechanical Dock Leveler - Component Identification

This page was intentionally left blank.

I-Beam/Floating Rear Hinge - 30,& 35,000 lb. capacity

Item	Qty	Part No	General Description	Specific Description
			30-35,000lb Capacity	222-5024
1**	1	222-5021-12	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/30#
1**	1	222-5021-13	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/30#
1**	1	222-5021-14	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/30#
1**	1	222-5021-15	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/30#
1**	1	222-5021-16	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/30#
1**	1	222-5021-17	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/30#
1**	1	222-5021-18	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/30#
1**	1	222-5021-19	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/30#
1**	1	222-5021-20	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/30#
1**	1	222-5021-21	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/30#
1**	1	222-5021-22	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/30#
1**	1	222-5021-23	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/30#
1**	1	222-5021-24	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/35#
1**	1	222-5021-25	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/35#
1**	1	222-5021-26	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/35#
1**	1	222-5021-27	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/35#
1**	1	222-5021-28	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/35#
1**	1	222-5021-29	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/35#
1**	1	222-5021-30	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/35#
1**	1	222-5021-31	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/35#
1**	1	222-5021-32	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/35#
1**	1	222-5021-33	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/35#
1**	1	222-5021-34	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/35#
1**	1	222-5021-35	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/35#
2	1	788-065	Frame Weldment	6'Wx6'LG/30#
2	1	788-135-9	Frame Weldment	6'Wx6'LG/35#
2	1	788-067	Frame Weldment	6'Wx8'LG/30#
2	1	788-135-12	Frame Weldment	6'Wx8'LG/35#
2	1	788-069	Frame Weldment	6'Wx10'LG/30#
2	1	788-135-15	Frame Weldment	6'Wx10'LG/35#
2	1	788-071	Frame Weldment	6'Wx12'LG/30#
2	1	788-135-18	Frame Weldment	6'Wx12'LG/35#
2	1	784-643	Frame Weldment	6'6"Wx6'LG/30#,35#
2	1	784-641	Frame Weldment	6'6"Wx8'LG/30#,35#
2	1	784-639	Frame Weldment	6'6"Wx10'LG/30#,35#
2	1	784-637	Frame Weldment	6'6"Wx12'LG/30#,35#
2	1	788-086	Frame Weldment	7'Wx6'LG/30#
2	1	788-064-5	Frame Weldment	7'Wx6'LG/35#
2	1	788-088	Frame Weldment	7'Wx8'LG/30#
2	1	788-064-8	Frame Weldment	7'Wx8'LG/35#
2	1	788-090	Frame Weldment	7'Wx10'LG/30#
2	1	788-064-11	Frame Weldment	7'Wx10'LG/35#
2	1	788-092	Frame Weldment	7'Wx12'LG/30#
2	1	788-064-14	Frame Weldment	7'Wx12'LG/35#
3	2	010-021	Capscrew, Hex Head - 1/2"-13x3/4"	6',6'6",7'W/30#,35#
4	3	012-220	Washer, Lock - 1/2" Split Reg.	6',6'6",7'/30#,35#
5**	1	202-5024	Safety Skirt Package	6' & 8'LG/30#,35#
5**	1	202-5024-1	Safety Skirt Package	10'LG/30#,35#
5**	1	202-5024-2	Safety Skirt Package	12'LG/30#,35#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

Continued...

I-Beam/Floating Rear Hinge - 30,& 35,000 lb. capacity

Item	Qty	Part No	General Description	Specific Description
6	1	200-5001	Safety Strut Ass'y	6',6'6",7"W/30#,35#
7	2	010-027	Capscrew, Hex Hd. 1/2"-13x2-1/2"	6',6'6",7"W/30#,35#
8	1	011-508	Nut, Hex 1/2"-13	6',6'6",7"W/30#,35#
9	2	110-886	Bumper DB13 - 10"X13"X4"	6',6'6",7"W/30#,35#
10	1	220-5002	Literature Package-U.S.English	6',6'6",7"W/30#,35#
11	.0837	038-010	Decal, Safety Stripe Blk/Yell	6',6'6",7"W/30#,35#
12	1.5GA	039-066	Paint, Blue (Fast Dry Enamel)	6',6'6",7"W/30#,35#
13	1	108-120	Serial Number Plate	6',6'6",7"W/30#,35#
14	4	011-083	Tack (Rivet)	6',6'6",7"W/30#,35#
15	1	038-196	Decal Blue Giant	6',6'6",7"W/30#,35#
16	1	223-5016	Lip Weldm't 30# 6'wide(16"Lip)	6'W/30#,35#
16	1	223-5012	Lip Weldm't 30# 6'6"wide(16"Lip)	6'6"W/30#,35#
16	1	223-5001	Lip Weldm't 30# 7'wide(16"Lip)	7'W/30#,35#
17	1	109-699	Shaft, Lip	6'W/30#,35#
17	1	109-687-1	Shaft, Lip	6'6"W/30#,35#
17	1	109-690	Shaft, Lip	7'W/30#,35#
18	2	010-037	Capscrew, Hex Hd. 5/16"-18x3/4"	6',6'6",7"W/30#,35#
19	2	011-502	Nut, Hex 5/16"-18 (R3-50056)	6',6'6",7"W/30#,35#
20	2	012-200	Lockwasher Helical - 5/16"	6',6'6",7"W/30#,35#
21	1	107-196	Pin, Clevis	6',6'6",7"W/30#,35#
22	1	013-010	Spring Pin 1/4"X1-1/4 LG.	6',6'6",7"W/30#,35#
23	1	012-213	Washer, Flat 5/8" Bs	6',6'6",7"W/30#,35#
24	1	010-101	Capscrew, 5/8"-11 X 3"	6',6'6",7"W/30#,35#
25**	1	788-037-2	Hold Down Box General Assy	6' & 8'LG/30#,35#
25**	1	788-037-3	Hold Down Box General Assy	10 & 12'LG/30#,35#
26	1	113-081	Hold Down Box Pin	6',6'6",7"W/30#,35#
27	2	013-018	Cotter Pin 3/32"X1"	6',6'6",7"W/30#,35#
28	1	788-197	Pull Chain Assembly	6',6'6",7"W/30#,35#
29	1	010-007	Capscrew, 5/16"-18x1-1/2"	6',6'6",7"W/30#,35#
30	1	011-543	Nut, Hex 5/16"-18 Nylon Insert	6',6'6",7"W/30#,35#
31	2	012-211	Washer, Flat 5/16" Bs	6',6'6",7"W/30#,35#
32	1	793-092	Cable Roller	6',6'6",7"W/30#,35#
33	1	012-274	Washer, 1-1/2"Odx.540"ID	6',6'6",7"W/30#,35#
34	1	011-554	Nut, Hex 1/2"-13 Nylon Insert	6',6'6",7"W/30#,35#
35	2	038-048-2	Decal, Warning	6',6'6",7"W/30#,35#
36	1	832-317	Label, Warning - Do Not Work...	6',6'6",7"W/30#,35#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

Continued...

17.2 Deck SubAssembly - 30 & 35,000

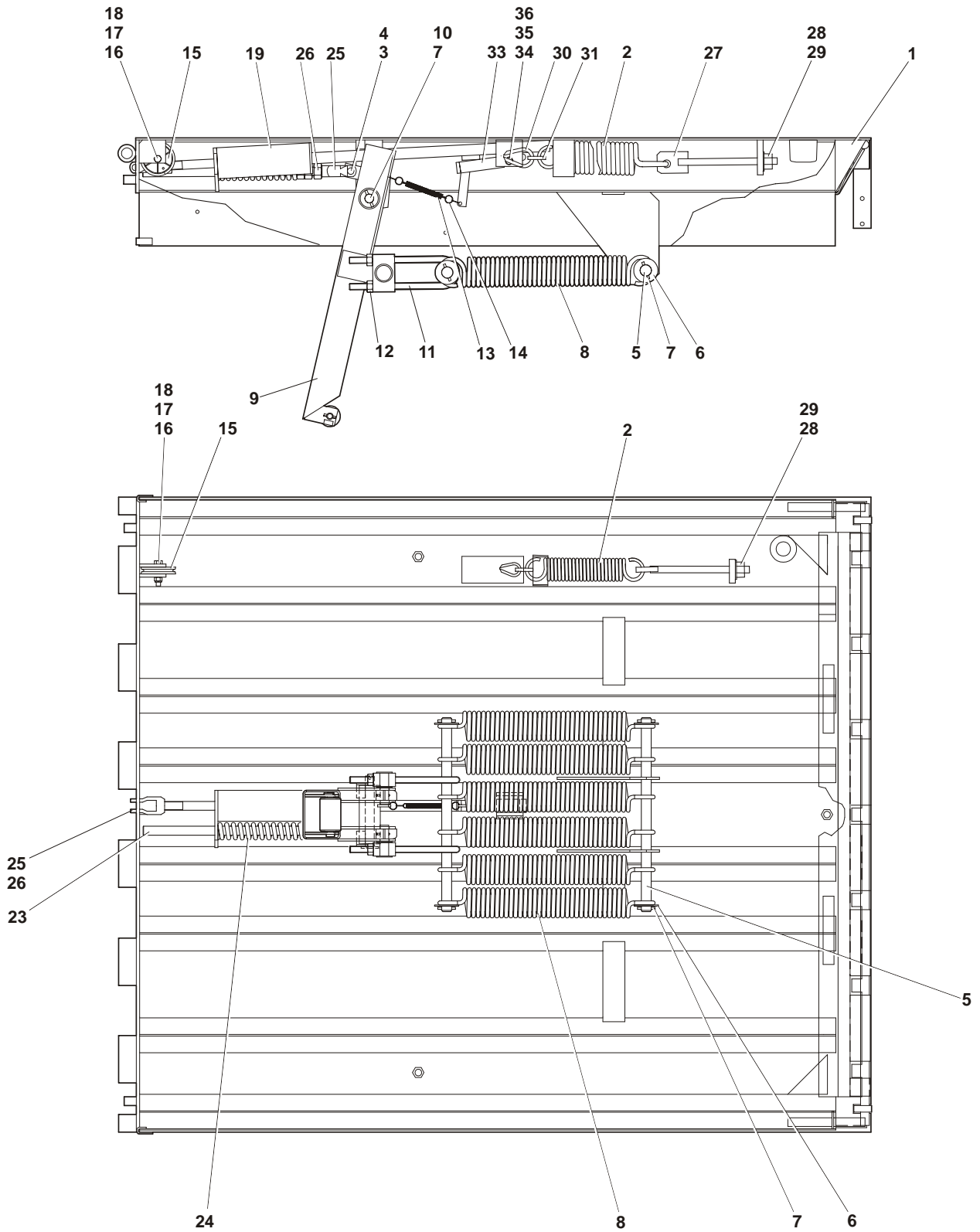


Figure 4 : Deck Sub-Assembly - 30,& 35,000 lb. capacity

Deck SubAssembly - 30 & 35,000

Item	Qty	Part No	General Description	Specific Description
				220-5021
-	-	222-5021-12	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/30#
-	-	222-5021-13	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/30#
-	-	222-5021-14	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/30#
-	-	222-5021-15	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/30#
-	-	222-5021-16	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/30#
-	-	222-5021-17	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/30#
-	-	222-5021-18	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/30#
-	-	222-5021-19	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/30#
-	-	222-5021-20	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/30#
-	-	222-5021-21	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/30#
-	-	222-5021-22	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/30#
-	-	222-5021-23	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/30#
-	-	222-5021-24	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/35#
-	-	222-5021-25	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/35#
-	-	222-5021-26	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/35#
-	-	222-5021-27	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/35#
-	-	222-5021-28	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/35#
-	-	222-5021-29	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/35#
-	-	222-5021-30	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/35#
-	-	222-5021-31	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/35#
-	-	222-5021-32	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/35#
-	-	222-5021-33	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/35#
-	-	222-5021-34	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/35#
-	-	222-5021-35	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/35#
1	1	222-5011-4	Deck Weld, Mech.(6'w/6'lg/30#)	6'Wx6'LG/30#
1	1	222-5011-5	Deck Weld, Mech.(6'w/8'lg/30#)	6'Wx8'LG/30#
1	1	222-5011-6	Deck Weld, Mech.(6'w/10'lg/30#)	6'Wx10'LG/30#
1	1	222-5011-7	Deck Weld, Mech.(6'w/10'lg/30#)	6'Wx12'LG/30#
1	1	222-5057-4	Deck Weld, Mech.(6'6"w/6'lg/30#)	6'6"Wx6'LG/30#
1	1	222-5057-5	Deck Weld, Mech.(6'6"w/8'lg/30#)	6'6"Wx8'LG/30#
1	1	222-5057-6	Deck Weld, Mech.(6'6"w/10'lg/30#)	6'6"Wx10'LG/30#
1	1	222-5057-7	Deck Weld, Mech.(6'6"w/12'lg/30#)	6'6"Wx12'LG/30#
1	1	222-5056-4	Deck Weld, Mech.(7'w/6'lg/30#)	7'Wx6'LG/30#
1	1	222-5056-5	Deck Weld, Mech.(7'w/8'lg/30#)	7'Wx8'LG/30#
1	1	222-5056-6	Deck Weld, Mech.(7'w/10'lg/30#)	7'Wx10'LG/30#
1	1	222-5056-7	Deck Weld, Mech.(7'w/12'lg/30#)	7'Wx12'LG/30#
1	1	222-5011-8	Deck Weld, Mech.(6'w/6'lg/35#)	6'Wx6'LG/35#
1	1	222-5011-9	Deck Weld, Mech.(6'6"w/8'lg/35#)	6'Wx8'LG/35#
1	1	222-5014	Deck Weld, Mech.(6'w/10'lg/35#)	6'Wx10'LG/35#
1	1	222-5014-1	Deck Weld, Mech.(6'w/12'lg/35#)	6'Wx12'LG/35#
1	1	222-5057-8	Deck Weld, Mech.(6'6"w/6'lg/35#)	6'6"Wx6'LG/35#
1	1	222-5057-9	Deck Weld, Mech.(6'6"w/8'lg/35#)	6'6"Wx8'LG/35#
1	1	222-5057-10	Deck Weld, Mech.(6'6"w/10'lg/35#)	6'6"Wx10'LG/35#
1	1	222-5057-11	Deck Weld, Mech.(6'6"w/12'lg/35#)	6'6"Wx12'LG/35#
1	1	222-5056-8	Deck Weld, Mech.(7'w/6'lg/35#)	7'Wx6'LG/35#
1	1	222-5056-9	Deck Weld, Mech.(7'w/8'lg/35#)	7'Wx8'LG/35#
1	1	222-5056-10	Deck Weld, Mech.(7'w/10'lg/30#)	7'Wx10'LG/35#
1	1	222-5056-7	Deck Weld, Mech.(7'w/12'lg/30#)	7'Wx12'LG/35#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

Continued...

Deck SubAssembly - 30 & 35,000 lb. Capacity

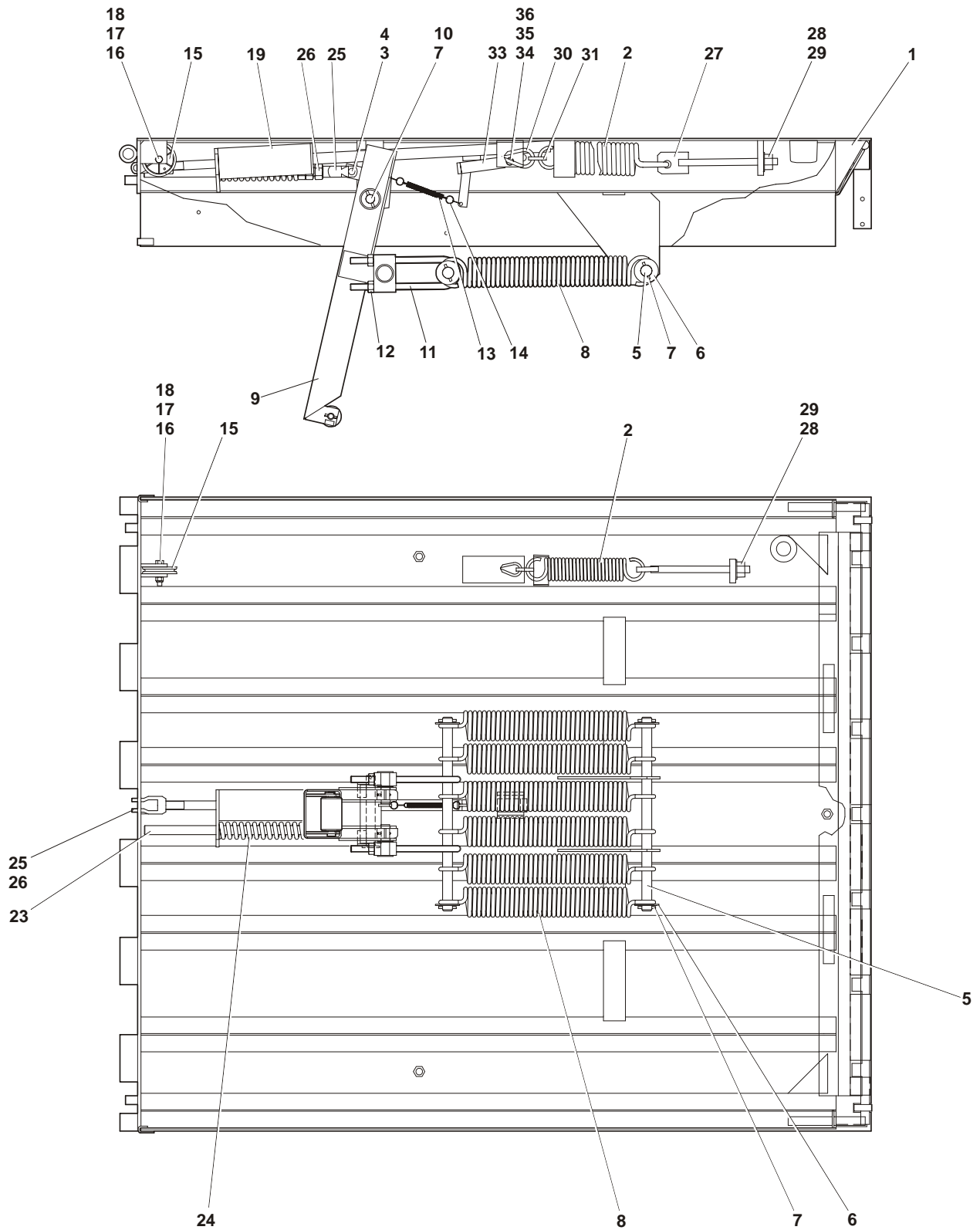


Figure 4 : Deck Sub-Assembly - 30,& 35,000 lb. capacity

Deck SubAssembly - 30 & 35,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
2	1	203-0019	Float Spring	6',6'6",7'W/30#,35#
3	1	107-196	Pin, Clevis	6',6'6",7'W/30#,35#
4	1	013-010	Spring Pin - 1/4"X1-1/4" LG.	6',6'6",7'W/30#,35#
5	2	109-137	Main Spring Hanger Shaft	6',8'/30#,35#
5	2	109-419	Main Spring Hanger Shaft	10',12'/30#,35#
6	4	012-216	Washer, Flat 1-5/16" Bs	6',6'6",7'W/30#,35#
7	5	013-012	Spring Pin-1/4"X2"	6',6'6",7'W/30#,35#
8	5	223-0004	Spring Dock Leveler Main	6',6'6",7'W/30#,35#
9	1	223-5023	Lifting Arm Ass'y (6' Leveler)	6',6'6",7'W/30#,35#
9	1	223-5023-1	Lifting Arm Ass'y (8' Leveler)	6',6'6",7'W/30#,35#
9	1	223-5023-2	Lifting Arm Ass'y (10' Leveler)	6',6'6",7'W/30#,35#
9	1	223-5023-3	Lifting Arm Ass'y (12' Leveler)	6',6'6",7'W/30#,35#
10	1	788-176	Lifting Arm Pin	6',6'6",7'W/30#,35#
11	2	111-570	Adjustable U-Bolt	6',6'6",7'W/30#,35#
12	4	011-510	Nut, Hex 3/4"-10	6',6'6",7'W/30#,35#
13	1	109-107	Spring Extension	6',6'6",7'W/30#,35#
14	4	013-134	Ring, Split .875"Dia	6',6'6",7'W/30#,35#
15	1	793-092	Cable Roller (See Notes)	6',6'6",7'W/30#,35#
16	1	010-027	Capscrew, Hex Hd. 1/2"-13x2-1/2"	6',6'6",7'W/30#,35#
17	1	012-274	Washer, 1-1/2"Odx.540"ID	6',6'6",7'W/30#,35#
18	1	011-554	Nut, Hex 1/2"-13 Nylon Insert	6',6'6",7'W/30#,35#
19*	1	783-291	Shock Assy C/W Clevis,Nut	6", 8"/30#,35#
19*	1	783-290	Shock Assy C/W Clevis,Nut	10'/30#,35#
19*	1	783-289	Shock Assy C/W Clevis,Nut	12'/30#,35#
20	1	793-375	Shock Absorber (6'&8'lg Mech)	6", 8"/30#,35#
20	1	793-374	Shock Absorber (6'&8'lg Mech)	10'/30#,35#
20	1	793-373	Shock Absorber (12'lg Mech)	12'/30#,35#
21	1	114-663	Clevis (Machined)	6',6'6",7'W/30#,35#
22	1	011-511	Nut, Hex Jam 1"-8	6',6'6",7'W/30#,35#
23	1	109-391	Lip Pusher Shaft (Mdl)	6", 8'/30#,35#
23	1	109-390	Lip Pusher Shaft (Mdl)	10'/30#,35#
23	1	109-437	Lip Pusher Shaft (Mdl)	12'/30#,35#
24	1	223-0005	Compression Spring-Lip Assist	6',6'6",7'W/30#,35#
25	1	114-663	Clevis (Machined)	6',6'6",7'W/30#,35#
26	3	011-511	Nut, Hex Jam 1"-8	6',6'6",7'W/30#,35#
27	1	223-5026	Spring Rod	6',6'6",7'W/30#,35#
28	1	011-509	Nut, Hex - 5/8"-11	6',6'6",7'W/30#,35#
29	1	012-213	Washer, Flat 5/8" Bs	6',6'6",7'W/30#,35#
30	1	013-618	Thimble Cable	6',6'6",7'W/30#,35#
31	1	222-5097	Spring Connection Plate	6',6'6",7'W/30#,35#
32*	1	222-5022	Assy, Doghouse	6',6'6",7'W/30#,35#
33	1	793-965	Dog Assembly	6',6'6",7'W/30#,35#
34	2	018-001	Bushing	6',6'6",7'W/30#,35#
35	1	222-0010	Pin,Dog	6',6'6",7'W/30#,35#
36	1	013-011	Spring Pin, 1/4"X1-3/8"	6',6'6",7'W/30#,35#
37	2	113-043	Bar, Tilt	6',6'6",7'W/30#,35#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

Continued...

I-Beam/Floating Rear Hinge - 40,& 45,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
				220-5021
1**	1	222-5021-36	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/40#
1**	1	222-5021-37	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/40#
1**	1	222-5021-38	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/40#
1**	1	222-5021-39	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/40#
1**	1	222-5021-40	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/40#
1**	1	222-5021-41	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/40#
1**	1	222-5021-42	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/40#
1**	1	222-5021-43	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/40#
1**	1	222-5021-44	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/40#
1**	1	222-5021-45	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/40#
1**	1	222-5021-46	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/40#
1**	1	222-5021-47	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/40#
1**	1	222-5021-48	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/45#
1**	1	222-5021-49	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/45#
1**	1	222-5021-50	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/45#
1**	1	222-5021-51	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/45#
1**	1	222-5021-52	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/45#
1**	1	222-5021-53	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/45#
1**	1	222-5021-54	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/45#
1**	1	222-5021-55	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/45#
1**	1	222-5021-56	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/45#
1**	1	222-5021-57	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/45#
1**	1	222-5021-58	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/45#
1**	1	222-5021-59	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/45#
2	1	785-081	Frame Weldment	6'Wx6'LG/40#,45#
2	1	785-079	Frame Weldment	6'Wx8'LG/40#,45#
2	1	785-077	Frame Weldment	6'Wx10'LG/40#,45#
2	1	785-075	Frame Weldment	6'Wx12'LG/40#,45#
2	1	784-635	Frame Weldment	6'6"Wx6'LG/40#,45#
2	1	784-633	Frame Weldment	6'6"Wx8'LG/40#,45#
2	1	784-631	Frame Weldment	6'6"Wx10'LG/40#,45#
2	1	784-629	Frame Weldment	6'6"Wx12'LG/40#,45#
2	1	785-073	Frame Weldment	7'Wx6'LG/40#,45#
2	1	785-071	Frame Weldment	7'Wx8'LG/40#,45#
2	1	785-069	Frame Weldment	7'Wx10'LG/40#,45#
2	1	785-067	Frame Weldment	7'Wx12'LG/40#,45#
3	2	010-021	Capscrew, Hex Hd. 1/2"-13x3/4"	6',6'6",7'W/40#,45#
4	3	012-220	Washer, Lock 1/2" Split Reg.	6',6'6",7'W/40#,45#
5**	1	202-5024	Safety Skirt Package	6 & 8' Lg. /40#,45#
5**	1	202-5024-1	Safety Skirt Package	10' Lg/40#,45#
5**	1	202-5024-2	Safety Skirt Package	12'/40#,45#
6	1	200-5001	Safety Strut Ass'y	6',6'6",7'W/40#,45#
7	2	010-027	Capscrew, 1/2"-13x2-1/2"	6',6'6",7'W/40#,45#
8	1	011-508	Nut, Hex Plated 1/2"-13	6',6'6",7'W/40#,45#
9	2	110-886	Bumper Db13 - 10"X13"X4" Proj	6',6'6",7'W/40#,45#
10	1	220-5002	Literature Package-U.S.English	6',6'6",7'W/40#,45#
11	.0837	038-010	Decal, Safety Stripe Blk/Yell	6',6'6",7'W/40#,45#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

Continued...

I-Beam/Floating Rear Hinge - 40,& 45,000 lb. Capacity

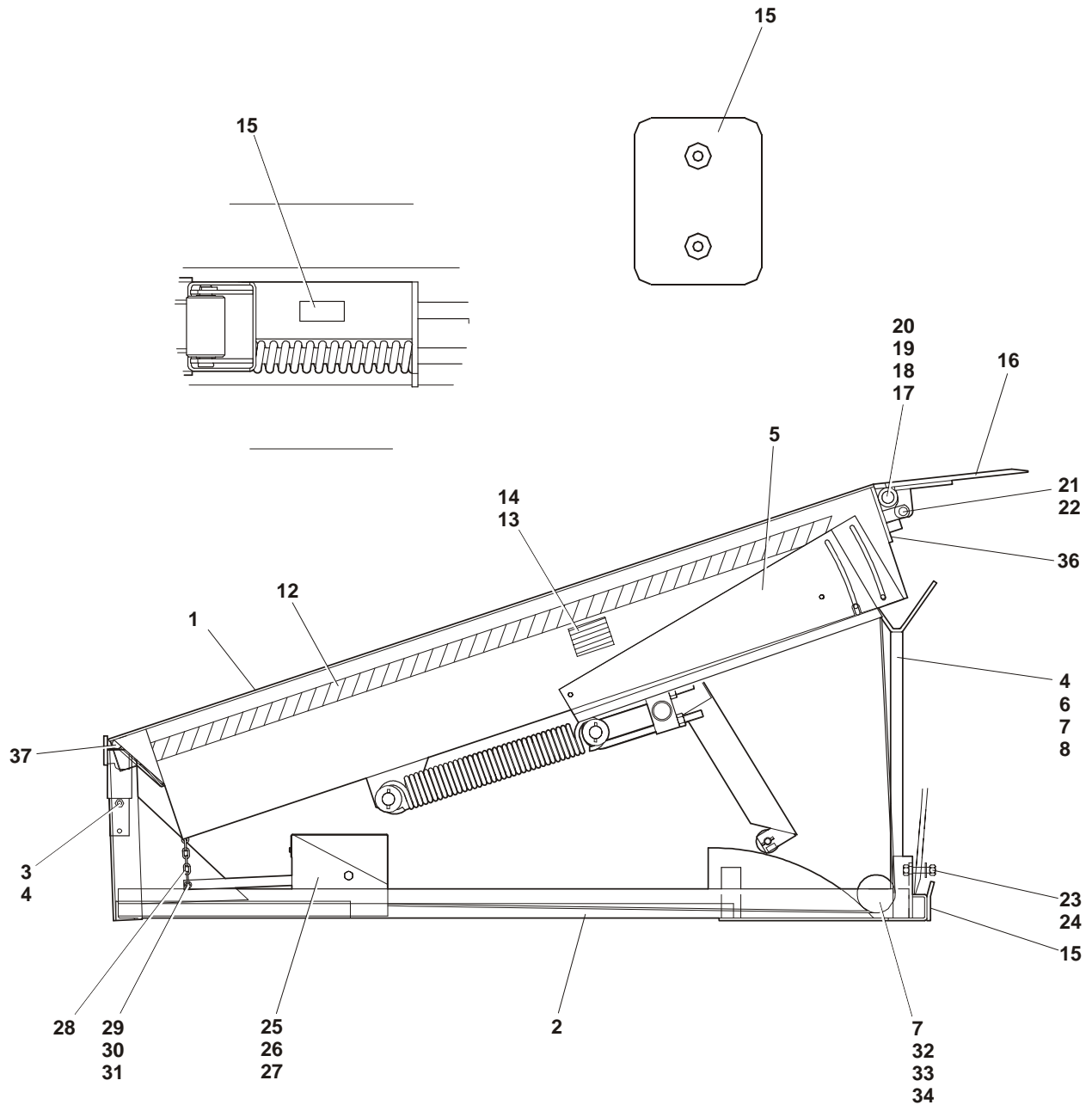


Figure 5 : General Assembly - 40,& 45,000 lb. Capacity

I-Beam/Floating Rear Hinge - 40,& 45,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
12	1.5GA	039-066	Paint, Blue	6',6'6",7'W/40#,45#
13	1	108-120	Serial Number Plate	6',6'6",7'W/40#,45#
14	4	011-083	Tack (Rivet)	6',6'6",7'W/40#,45#
15	1	038-196	Decal Blue Giant	6',6'6",7'W/40#,45#
16	1	223-5009	Lip Weldm't (16"X72"Lg)	6'W/40#,45#
16		223-5013	Lip Weldm't (16"X78"Lg)	6'6"W/40#,45#
16		223-5002	Lip Weldm't (16"X83"Lg)	7'W/40#,45#
17	1	110-763	Shaft, Lip 1.25"Dia. X 70.5"Lg	6'W/40#,45#
17	1	111-595-1	Shaft, Lip	6'6"W/40#,45#
17		111-594	Shaft, Lip	7'W/40#,45#
18	2	010-037	Capscrew, Hex Hd. 5/16"-18x3/4"	6',6'6",7'W/40#,45#
19	2	011-502	Nut, Hex 5/16"-18	6',6'6",7'W/40#,45#
20	2	012-200	Washer, Lock 5/16" Helical	6',6'6",7'W/40#,45#
21	1	107-196	Pin, Clevis	6',6'6",7'W/40#,45#
22	1	013-010	Spring Pin - 1/4"X1-1/4" Lg.	6',6'6",7'W/40#,45#
23	1	012-213	Washer, Flat 5/8" Bs	6',6'6",7'W/40#,45#
24	1	010-101	Capscrew, Hex Hd. 5/8"-11x3"	6',6'6",7'W/40#,45#
25**	1	788-037-2	Hold Down Box General Assy	6' & 8' Lg/40#,45#
25**	1	788-037-3	Hold Down Box General Assy	10' & 12' Lg. /40#,45#
26	1	113-081	Hold Down Box Pin	6',6'6",7'W/40#,45#
27	2	013-018	Cotter Pin 3/32"X1"	6',6'6",7'W/40#,45#
28	1	788-197	Pull Chain Assembly	6',6'6",7'W/40#,45#
29	1	010-007	Capscrew, 5/16"-18x1-1/2"	6',6'6",7'W/40#,45#
30	1	011-543	Nut, Hex 5/16"-18 Nylon Insert	6',6'6",7'W/40#,45#
31	2	012-211	Washer, Flat 5/16" Bs	6',6'6",7'W/40#,45#
32	1	793-092	Cable Roller	6',6'6",7'W/40#,45#
33	1	012-274	Washer, 1-1/2"Odx.540" ID	6',6'6",7'W/40#,45#
34	1	011-554	Nut, Hex 1/2"-13 Nylon Insert	6',6'6",7'W/40#,45#
35	2	038-048-2	Decal, Warning	6',6'6",7'W/40#,45#
36	1	832-317	Label, Warning "Do Not Work..."	6',6'6",7'W/40#,45#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

Continued...

17.4 Deck Sub-Assembly - 40, & 45,000 lb. Capacity

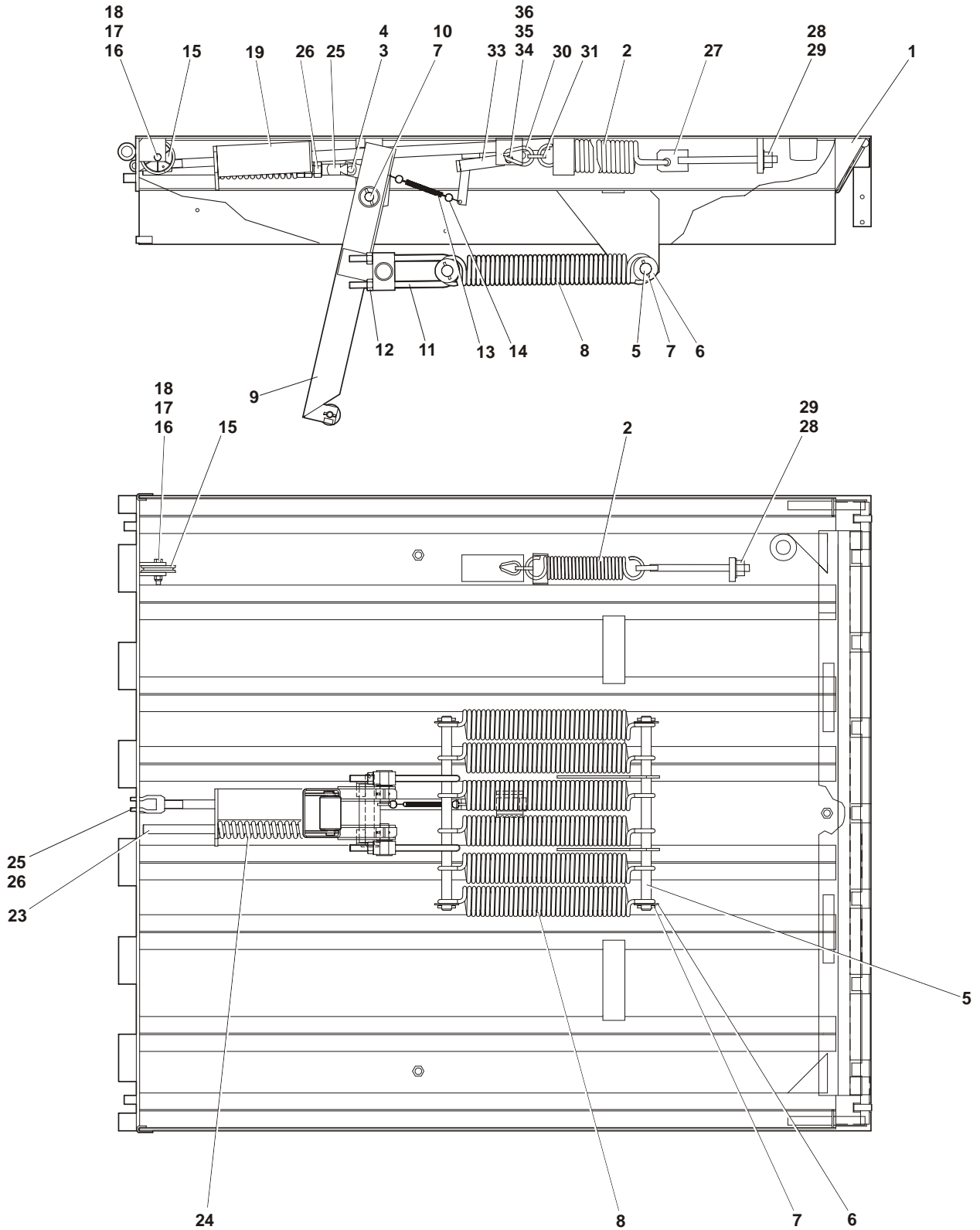


Figure 6 : Deck Sub-Assembly - 40, & 45,000 lb. Capacity

Deck Sub-Assembly - 40,& 45,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
				220-5021
-	-	222-5021-36	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/40#
-	-	222-5021-37	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/40#
-	-	222-5021-38	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/40#
-	-	222-5021-39	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/40#
-	-	222-5021-40	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/40#
-	-	222-5021-41	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/40#
-	-	222-5021-42	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/40#
-	-	222-5021-43	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/40#
-	-	222-5021-44	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/40#
-	-	222-5021-45	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/40#
-	-	222-5021-46	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/40#
-	-	222-5021-47	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/40#
-	-	222-5021-48	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/45#
-	-	222-5021-49	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/45#
-	-	222-5021-50	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/45#
-	-	222-5021-51	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/45#
-	-	222-5021-52	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/45#
-	-	222-5021-53	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/45#
-	-	222-5021-54	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/45#
-	-	222-5021-55	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/45#
-	-	222-5021-56	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/45#
-	-	222-5021-57	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/45#
-	-	222-5021-58	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/45#
-	-	222-5021-59	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/45#
1	1	222-5014-2	Deck Weld, Mech.(6'w/6'lg/40#)	6'Wx6'LG/40#
1	1	222-5014-3	Deck Weld, Mech.(6'w/8'lg/40#)	6'Wx8'LG/40#
1	1	222-5014-4	Deck Weld, Mech.(6'w/10'lg/40#)	6'Wx10'LG/40#
1	1	222-5014-5	Deck Weld, Mech.(6'w/10'lg/40#)	6'Wx12'LG/40#
1	1	222-5057-12	Deck Weld, Mech.(6'6"w/6'lg/40#)	6'6"Wx6'LG/40#
1	1	222-5057-13	Deck Weld, Mech.(6'6"w/8'lg/40#)	6'6"Wx8'LG/40#
1	1	222-5057-14	Deck Weld, Mech.(6'6"w/10'lg/40#)	6'6"Wx10'LG/40#
1	1	222-5057-15	Deck Weld, Mech.(6'6"w/12'lg/40#)	6'6"Wx12'LG/40#
1	1	222-5056-12	Deck Weld, Mech.(7'w/6'lg/40#)	7'Wx6'LG/40#
1	1	222-5056-13	Deck Weld, Mech.(7'w/8'lg/40#)	7'Wx8'LG/40#
1	1	222-5056-14	Deck Weld, Mech.(7'w/10'lg/40#)	7'Wx10'LG/40#
1	1	222-5056-15	Deck Weld, Mech.(7'w/12'lg/40#)	7'Wx12'LG/40#
1	1	222-5014-6	Deck Weld, Mech.(6'w/6'lg/45#)	6'Wx6'LG/45#
1	1	222-5014-7	Deck Weld, Mech.(6'6"w/8'lg/45#)	6'Wx8'LG/45#
1	1	222-5014-8	Deck Weld, Mech.(6'w/10'lg/45#)	6'Wx10'LG/45#
1	1	222-5014-9	Deck Weld, Mech.(6'w/12'lg/45#)	6'Wx12'LG/45#
1	1	222-5057-16	Deck Weld, Mech.(6'6"w/6'lg/45#)	6'6"Wx6'LG/45#
1	1	222-5057-17	Deck Weld, Mech.(6'6"w/8'lg/45#)	6'6"Wx8'LG/45#
1	1	222-5057-18	Deck Weld, Mech.(6'6"w/10'lg/45#)	6'6"Wx10'LG/45#
1	1	222-5057-19	Deck Weld, Mech.(6'6"w/12'lg/45#)	6'6"Wx12'LG/45#
1	1	222-5056-16	Deck Weld, Mech.(7'w/6'lg/45#)	7'Wx6'LG/45#
1	1	222-5056-17	Deck Weld, Mech.(7'w/8'lg/45#)	7'Wx8'LG/45#
1	1	222-5056-18	Deck Weld, Mech.(7'w/10'lg/45#)	7'Wx10'LG/45#
1	1	222-5056-19	Deck Weld, Mech.(7'w/12'lg/45#)	7'Wx12'LG/45#
2	1	203-0019	Float Spring	6',6'6",7'W/40#,45#
3	1	107-196	Pin, Clevis	6',6'6",7'W/40#,45#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

Continued...

Deck Sub-Assembly - 40,& 45,000 lb. Capacity

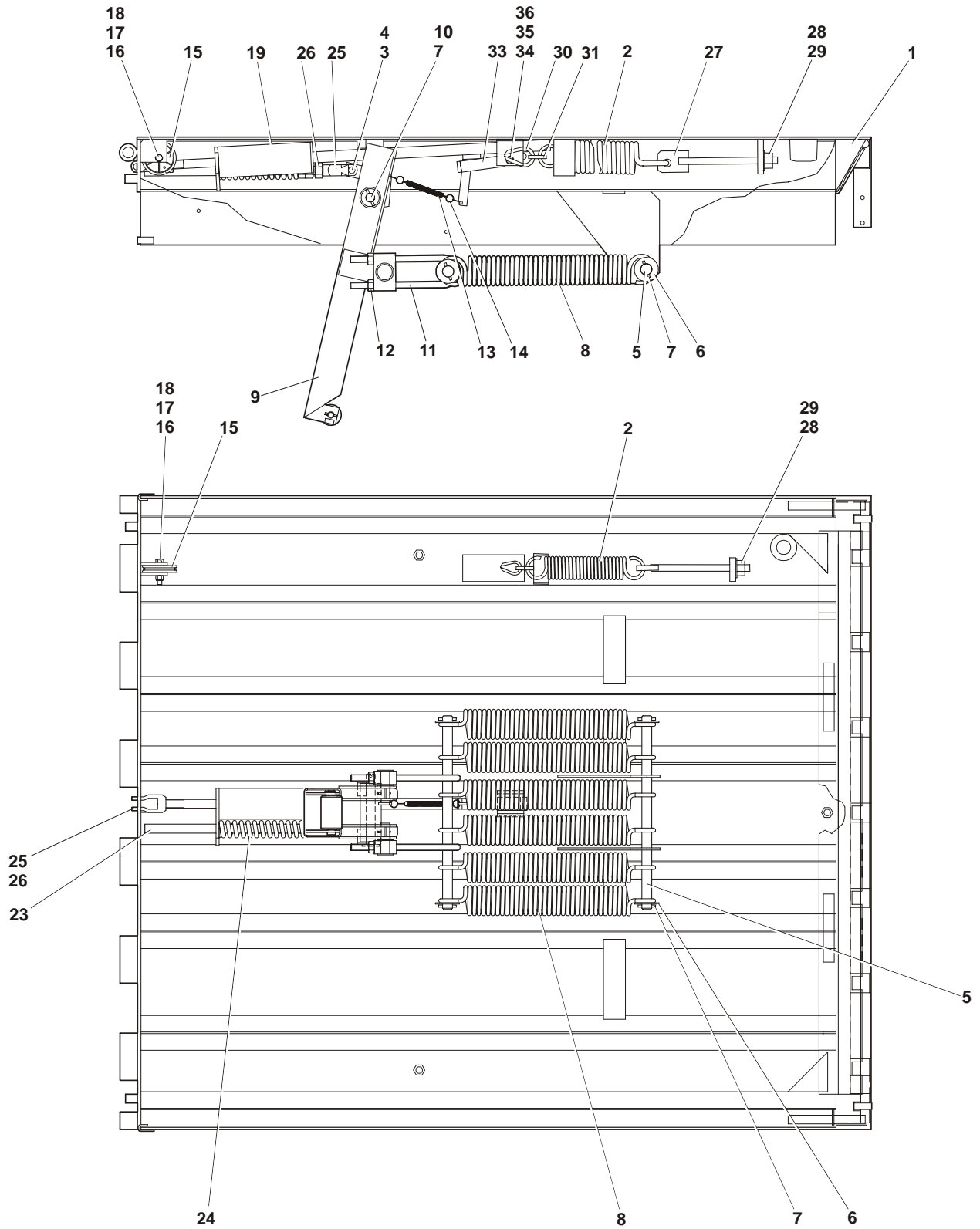


Figure 6 : Deck Sub-Assembly - 40,& 45,000 lb. Capacity

Deck Sub-Assembly - 40,& 45,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
4	1	013-010	Spring Pin - 1/4"X1-1/4" LG.	6',6'6",7'W/40#,45#
5	2	109-137	Main Spring Hanger Shaft	6',8'/40#,45#
5	2	109-419	Main Spring Hanger Shaft	10',12'40#,45#
5	2	109-137	Main Spring Hanger Shaft	6'Wx6'LG, 6'Wx8'LG/45#
5	2	109-419	Main Spring Hanger Shaft	6'Wx10'LG, 6'Wx12'LG/45#, 6'6",7'W/45#
6	4	012-216	Washer, Flat 1-5/16" Bs	6',6'6",7'W/40#,45#
7	5	013-012	Spring Pin-1/4"X2"	6',6'6",7'W/40#,45#
8	5	223-0004	Spring Dock Leveler Main	6',6'6",7'W/40#,45#
9	1	223-5023	Lifting Arm Ass'y (6' Leveler)	6',6'6",7'W/40#,45#
9	1	223-5023-1	Lifting Arm Ass'y (8' Leveler)	6',6'6",7'W/40#,45#
9	1	223-5023-2	Lifting Arm Ass'y (10' Leveler)	6',6'6",7'W/40#,45#
9	1	223-5023-3	Lifting Arm Ass'y (12' Leveler)	6',6'6",7'W/40#,45#
10	1	788-176	Lifting Arm Pin	6',6'6",7'W/40#,45#
11	2	111-570	Adjustable U-Bolt	6',6'6",7'W/40#,45#
12	4	011-510	Nut, Hex 3/4"-10	6',6'6",7'W/40#,45#
13	1	109-107	Spring Extension	6',6'6",7'W/40#,45#
14	4	013-134	Ring, Split .875"Dia	6',6'6",7'W/40#,45#
15	1	793-092	Cable Roller (See Notes)	6',6'6",7'W/40#,45#
16	1	010-027	Capscrew, Hex Hd. 1/2"-13x2-1/2"	6',6'6",7'W/40#,45#
17	1	012-274	Washer, 1-1/2"Odx.540"ID	6',6'6",7'W/40#,45#
18	1	011-554	Nut, Hex 1/2"-13 Nylon Insert	6',6'6",7'W/40#,45#
19*	1	783-291	Shock Assy C/W Clevis,Nut	6', 8'/40#,45#
19*	1	783-290	Shock Assy C/W Clevis,Nut	10'/40#,45#
19*	1	783-289	Shock Assy C/W Clevis,Nut	12'/40#,45#
20	1	793-375	Shock Absorber (6'&8'Ig Mech)	6', 8'/40#,45#
20	1	793-374	Shock Absorber (6'&8'Ig Mech)	10'/40#,45#
20	1	793-373	Shock Absorber (12'Ig Mech)	12'/40#,45#
21	1	114-663	Clevis (Machined)	6',6'6",7'W/50#
22	1	011-511	Nut, Hex Jam 1"-8	6',6'6",7'W/50#
23	1	109-391	Lip Pusher Shaft (Mdl)	6", 8'/40#,45#
23	1	109-390	Lip Pusher Shaft (Mdl)	10'/40#,45#
23	1	109-437	Lip Pusher Shaft (Mdl)	12'/40#,45#
24	1	223-0005	Compression Spring-Lip Assist	6',6'6",7'W/40#,45#
25	1	114-663	Clevis (Machined)	6',6'6",7'W/40#,45#
26	3	011-511	Nut, Hex Jam 1"-8	6',6'6",7'W/40#,45#
27	1	223-5026	Spring Rod	6',6'6",7'W/40#,45#
28	1	011-509	Nut, Hex - 5/8"-11	6',6'6",7'W/40#,45#
29	1	012-213	Washer, Flat 5/8" Bs	6',6'6",7'W/40#,45#
30	1	013-618	Thimble Cable	6',6'6",7'W/40#,45#
31	1	222-5097	Spring Connection Plate	6',6'6",7'W/40#,45#
32*	1	222-5022	Assy, Doghouse	6',6'6",7'W/40#,45#
33	1	793-965	Dog Assembly	6',6'6",7'W/40#,45#
34	2	018-001	Bushing	6',6'6",7'W/40#,45#
35	1	222-0010	Pin,Dog	6',6'6",7'W/40#,45#
36	1	013-011	Spring Pin, 1/4"X1-3/8"	6',6'6",7'W/40#,45#
37	2	113-043	Bar, Tilt	6',6'6",7'W/30#,35#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

17.5 I-Beam/Floating Rear Hinge - 50,000 lb. Capacity

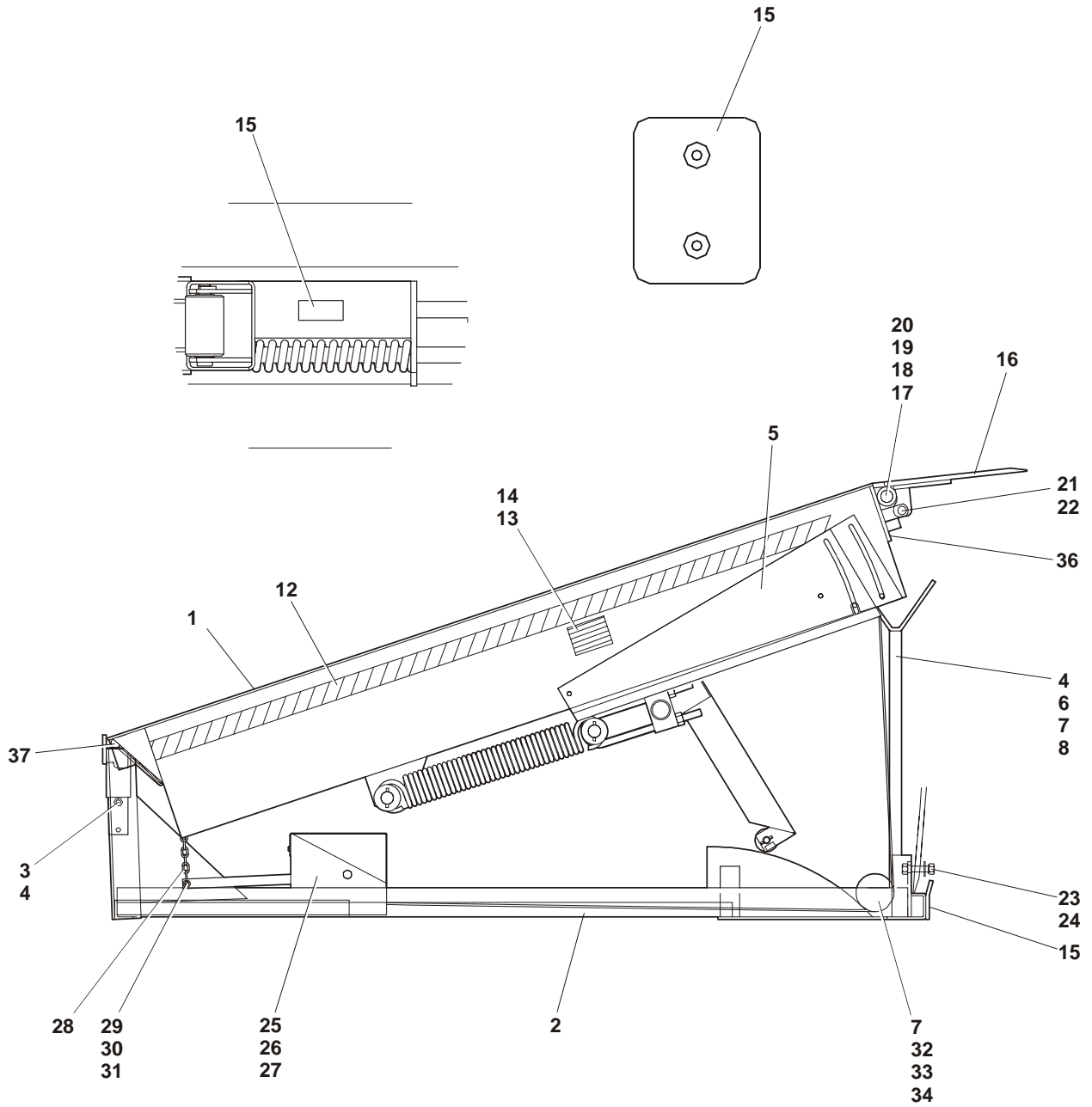


Figure 7 : Deck Sub-Assembly - 50,000 lb. Capacity

I-Beam/Floating Rear Hinge - 50,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
				220-5021
1	1	222-5021-48	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/50#
1	1	222-5021-49	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/50#
1	1	222-5021-50	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/50#
1	1	222-5021-51	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/50#
1	1	222-5021-52	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/50#
1	1	222-5021-53	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/50#
1	1	222-5021-54	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/50#
1	1	222-5021-55	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/50#
1	1	222-5021-56	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/50#
1	1	222-5021-57	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/50#
1	1	222-5021-58	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/50#
1	1	222-5021-59	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/50#
2	1	785-081	Frame Weldment	6'Wx6'LG/50#
2	1	785-079	Frame Weldment	6'Wx8'LG/50#
2	1	785-077	Frame Weldment	6'Wx10'LG/50#
2	1	785-075	Frame Weldment	6'Wx12'LG/50#
2	1	784-635	Frame Weldment	6'6"Wx6'LG/50#
2	1	784-633	Frame Weldment	6'6"Wx8'LG/50#
2	1	784-631	Frame Weldment	6'6"Wx10'LG/50#
2	1	784-629	Frame Weldment	6'6"Wx12'LG/50#
2	1	785-073	Frame Weldment	7'Wx6'LG/50#
2	1	785-071	Frame Weldment	7'Wx8'LG/50#
2	1	785-069	Frame Weldment	7'Wx10'LG/50#
2	1	785-067	Frame Weldment	7'Wx12'LG/50#
3	2	010-021	Capscrew, Hex Hd. 1/2"-13x3/4"	6',6'6",7'W/50#
4	3	012-220	Washer, Lock 1/2" Split Reg.	6',6'6",7'W/50#
5	1	202-5024	Safety Skirt Package	6' & 8' Lg. /50#
5	1	202-5024-1	Safety Skirt Package	10' Lg/50#
5	1	202-5024-2	Safety Skirt Package	12'/50#
6	1	200-5001	Safety Strut Ass'y	6',6'6",7'W/50#
7	2	010-027	Capscrew, 1/2"-13x2-1/2"	6',6'6",7'W/50#
8	1	011-508	Nut, Hex Plated 1/2"-13	6',6'6",7'W/50#
9	2	110-886	Bumper Db13 - 10"X13"X4" Proj	6',6'6",7'W/50#
10	1	220-5002	Literature Package-U.S.English	6',6'6",7'W/50#
11	.0837	038-010	Decal, Safety Stripe Blk/Yell	6',6'6",7'W/50#
12	1.5GA	039-066	Paint, Blue	6',6'6",7'W/50#
13	1	108-120	Serial Number Plate	6',6'6",7'W/50#
14	4	011-083	Tack (Rivet)	6',6'6",7'W/50#
15	1	038-196	Decal Blue Giant	6',6'6",7'W/50#
16	1	223-5011	Lip Weldm't (16"X72"Lg)	6'W/50#
16		223-5015	Lip Weldm't (16"X78"Lg)	6'6"W/50#
16		223-5004	Lip Weldm't (16"X83"Lg)	7'W/50#
17	1	110-763	Shaft, Lip 1.25"Dia. X 70.5"Lg	6'W/50#
17	1	111-595-1	Shaft, Lip	6'6"W/50#
17		111-594	Shaft, Lip	7'W/50#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

Continued...

I-Beam/Floating Rear Hinge - 50,000 lb. Capacity

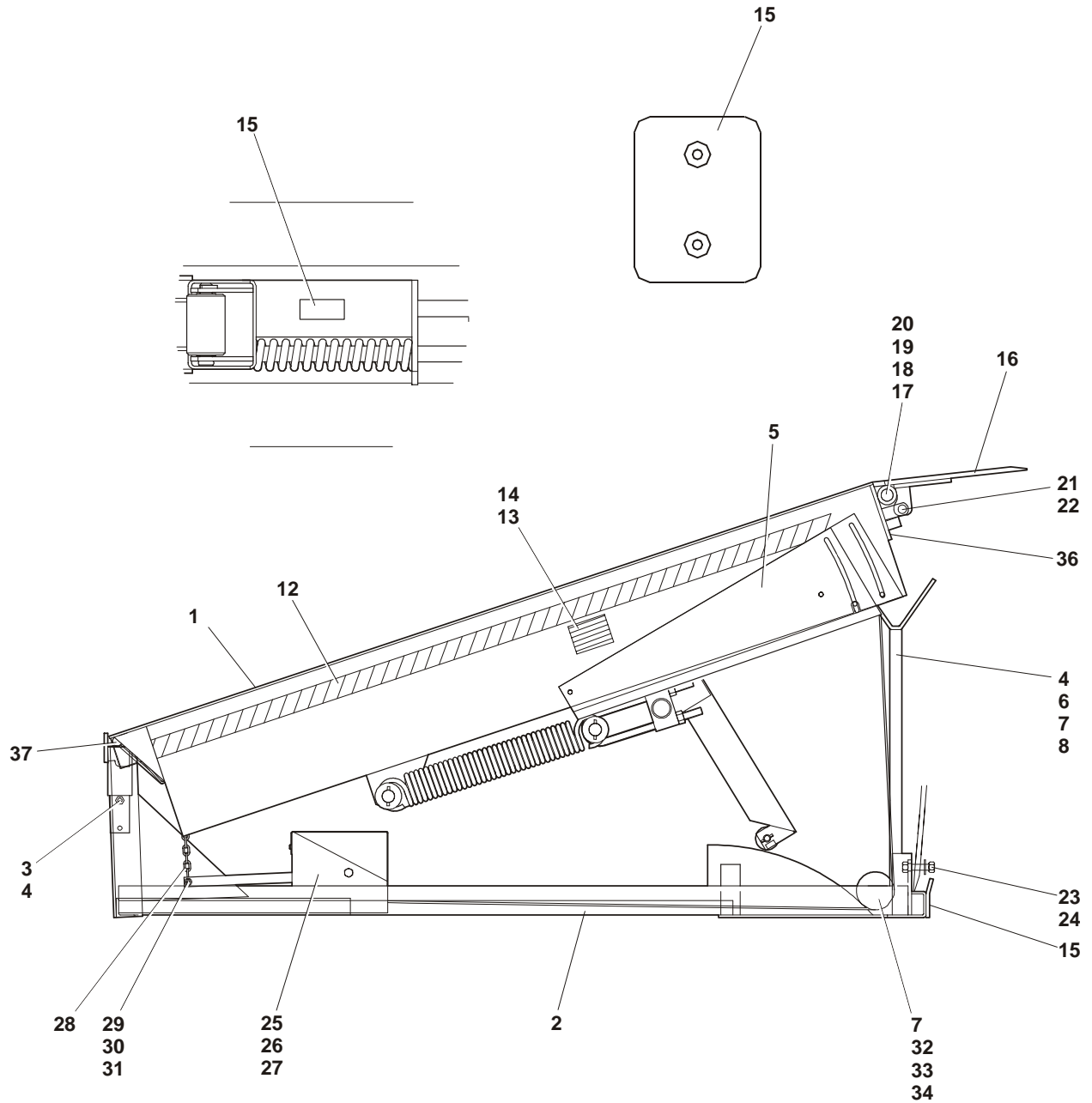


Figure 7 : Deck Sub-Assembly - 50,000 lb. Capacity

I-Beam/Floating Rear Hinge - 50,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
18	2	010-037	Capscrew, Hex Hd. 5/16"-18x3/4"	6',6'6",7"W/50#
19	2	011-502	Nut, Hex 5/16"-18	6',6'6",7"W/50#
20	2	012-200	Washer, Lock 5/16" Helical	6',6'6",7"W/50#
21	1	107-196	Pin, Clevis	6',6'6",7"W/50#
22	1	013-010	Spring Pin - 1/4"X1-1/4" Lg.	6',6'6",7"W/50#
23	1	012-213	Washer, Flat 5/8" BS	6',6'6",7"W/50#
24	1	010-101	Capscrew, Hex Hd. 5/8"-11x3"	6',6'6",7"W/50#
25**	1	788-037-2	Hold Down Box General Assy	6' & 8' Lg/50#
25**	1	788-037-3	Hold Down Box General Assy	10' & 12' Lg. /50#
26	1	113-081	Hold Down Box Pin (Mdl)	6',6'6",7"W/50#
27	2	013-018	Cotter Pin 3/32"X1"	6',6'6",7"W/50#
28	1	788-197	Pull Chain Assembly	6',6'6",7"W/50#
29	1	010-007	Capscrew, 5/16"-18x1-1/2"	6',6'6",7"W/50#
30	1	011-543	Nut, Hex 5/16"-18 Nylon Insert	6',6'6",7"W/50#
31	2	012-211	Washer, Flat 5/16" BS	6',6'6",7"W/50#
32	1	793-092	Cable Roller	6',6'6",7"W/50#
33	1	012-274	Washer, 1-1/2"ODx.540" ID	6',6'6",7"W/50#
34	1	011-554	Nut, Hex 1/2"-13 Nylon Insert	6',6'6",7"W/50#
35	2	038-048-2	Decal, Warning	6',6'6",7"W/50#
36	1	832-317	Label, Warning "Do Not Work..."	6',6'6",7"W/50#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

17.6 Deck Sub-Assembly - 50,000 lb. Capacity

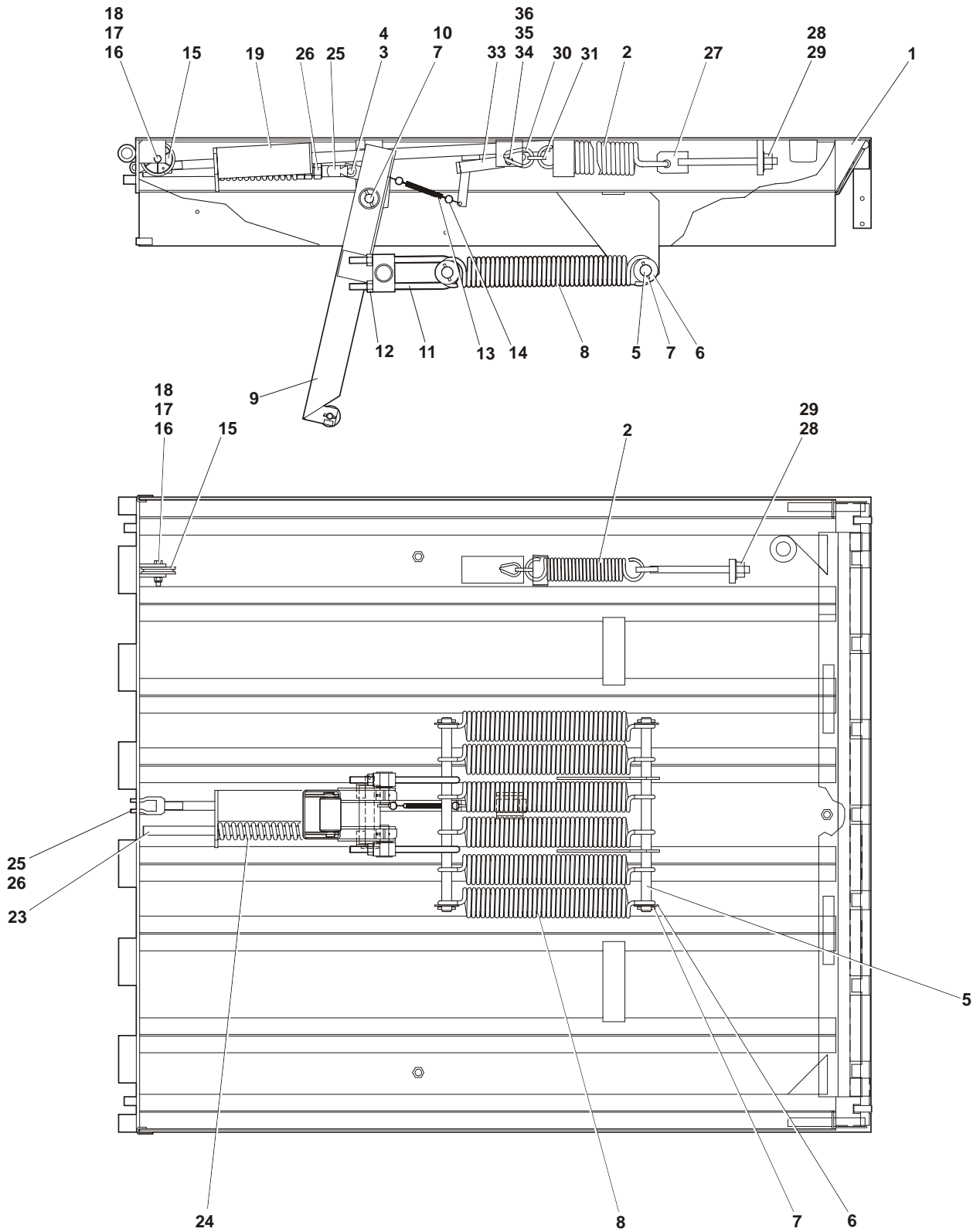


Figure 8 : Deck Sub-Assembly - 50,000 lb. Capacity

Deck Sub-Assembly - 50,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
				220-5021
-	-	222-5021-48	Deck Sub-Ass'y -Mechanical	6'Wx6'LG/50#
-	-	222-5021-49	Deck Sub-Ass'y -Mechanical	6'Wx8'LG/50#
-	-	222-5021-50	Deck Sub-Ass'y -Mechanical	6'Wx10'LG/50#
-	-	222-5021-51	Deck Sub-Ass'y -Mechanical	6'Wx12'LG/50#
-	-	222-5021-52	Deck Sub-Ass'y -Mechanical	6'6"Wx6'LG/50#
-	-	222-5021-53	Deck Sub-Ass'y -Mechanical	6'6"Wx8'LG/50#
-	-	222-5021-54	Deck Sub-Ass'y -Mechanical	6'6"Wx10'LG/50#
-	-	222-5021-55	Deck Sub-Ass'y -Mechanical	6'6"Wx12'LG/50#
-	-	222-5021-56	Deck Sub-Ass'y -Mechanical	7'Wx6'LG/50#
-	-	222-5021-57	Deck Sub-Ass'y -Mechanical	7'Wx8'LG/50#
-	-	222-5021-58	Deck Sub-Ass'y -Mechanical	7'Wx10'LG/50#
-	-	222-5021-59	Deck Sub-Ass'y -Mechanical	7'Wx12'LG/50#
1	1	222-5014-6	Deck Weld, Mech.(6'w/6'lg/50#)	6'Wx6'LG/50#
1	1	222-5014-7	Deck Weld, Mech.(6'6" w/8'lg/50#)	6'Wx8'LG/50#
1	1	222-5014-8	Deck Weld, Mech.(6'w/10'lg/50#)	6'Wx10'LG/50#
1	1	222-5014-9	Deck Weld, Mech.(6'w/12'lg/50#)	6'Wx12'LG/50#
1	1	222-5057-16	Deck Weld, Mech.(6'6" w/6'lg/50#)	6'6"Wx6'LG/50#
1	1	222-5057-17	Deck Weld, Mech.(6'6" w/8'lg/50#)	6'6"Wx8'LG/50#
1	1	222-5057-18	Deck Weld, Mech.(6'6" w/10'lg/50#)	6'6"Wx10'LG/50#
1	1	222-5057-19	Deck Weld, Mech.(6'6" w/12'lg/50#)	6'6"Wx12'LG/50#
1	1	222-5056-16	Deck Weld, Mech.(7'w/6'lg/50#)	7'Wx6'LG/50#
1	1	222-5056-17	Deck Weld, Mech.(7'w/8'lg/50#)	7'Wx8'LG/50#
1	1	222-5056-18	Deck Weld, Mech.(7'w/10'lg/50#)	7'Wx10'LG/50#
1	1	222-5056-19	Deck Weld, Mech.(7'w/12'lg/50#)	7'Wx12'LG/50#
2	1	203-0019	Float Spring	6',6'6",7"W/50#
3	1	107-196	Pin, Clevis	6',6'6",7"W/50#
4	1	013-010	Spring Pin - 1/4"X1-1/4" LG.	6',6'6",7"W/50#
5	2	109-137	Main Spring Hanger Shaft	6',8'/50#
5	2	109-419	Main Spring Hanger Shaft	10',12'/50#
5	2	109-137	Main Spring Hanger Shaft	6'Wx6'LG, 6'Wx8'LG/50#
5	2	109-419	Main Spring Hanger Shaft	6'Wx10'LG, 6'Wx12'LG/50#, 6'6",7"W/50#
6	4	012-216	Washer, Flat 1-5/16" Bs	6',6'6",7"W/50#
7	5	013-012	Spring Pin-1/4"X2"	6',6'6",7"W/50#
8	5	223-0004	Spring Dock Leveler Main	6',6'6",7"W/50#
9	1	223-5023	Lifting Arm Ass'y (6' Leveler)	6',6'6",7"W/50#
9	1	223-5023-1	Lifting Arm Ass'y (8' Leveler)	6',6'6",7"W/50#
9	1	223-5023-2	Lifting Arm Ass'y (10' Leveler)	6',6'6",7"W/50#
9	1	223-5023-3	Lifting Arm Ass'y (12' Leveler)	6',6'6",7"W/50#
10	1	788-176	Lifting Arm Pin	6',6'6",7"W/50#
11	2	111-570	Adjustable U-Bolt	6',6'6",7"W/50#
12	4	011-510	Nut, Hex 3/4"-10	6',6'6",7"W/50#
13	1	109-107	Spring Extension	6',6'6",7"W/50#
14	4	013-134	Ring, Split .875"Dia	6',6'6",7"W/50#
15	1	793-092	Cable Roller (See Notes)	6',6'6",7"W/50#
16	1	010-027	Capscrew, Hex Hd. 1/2"-13x2-1/2"	6',6'6",7"W/50#
17	1	012-274	Washer, 1-1/2"Odx.540"ID	6',6'6",7"W/50#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

Continued...

Deck Sub-Assembly - 50,000 lb. Capacity

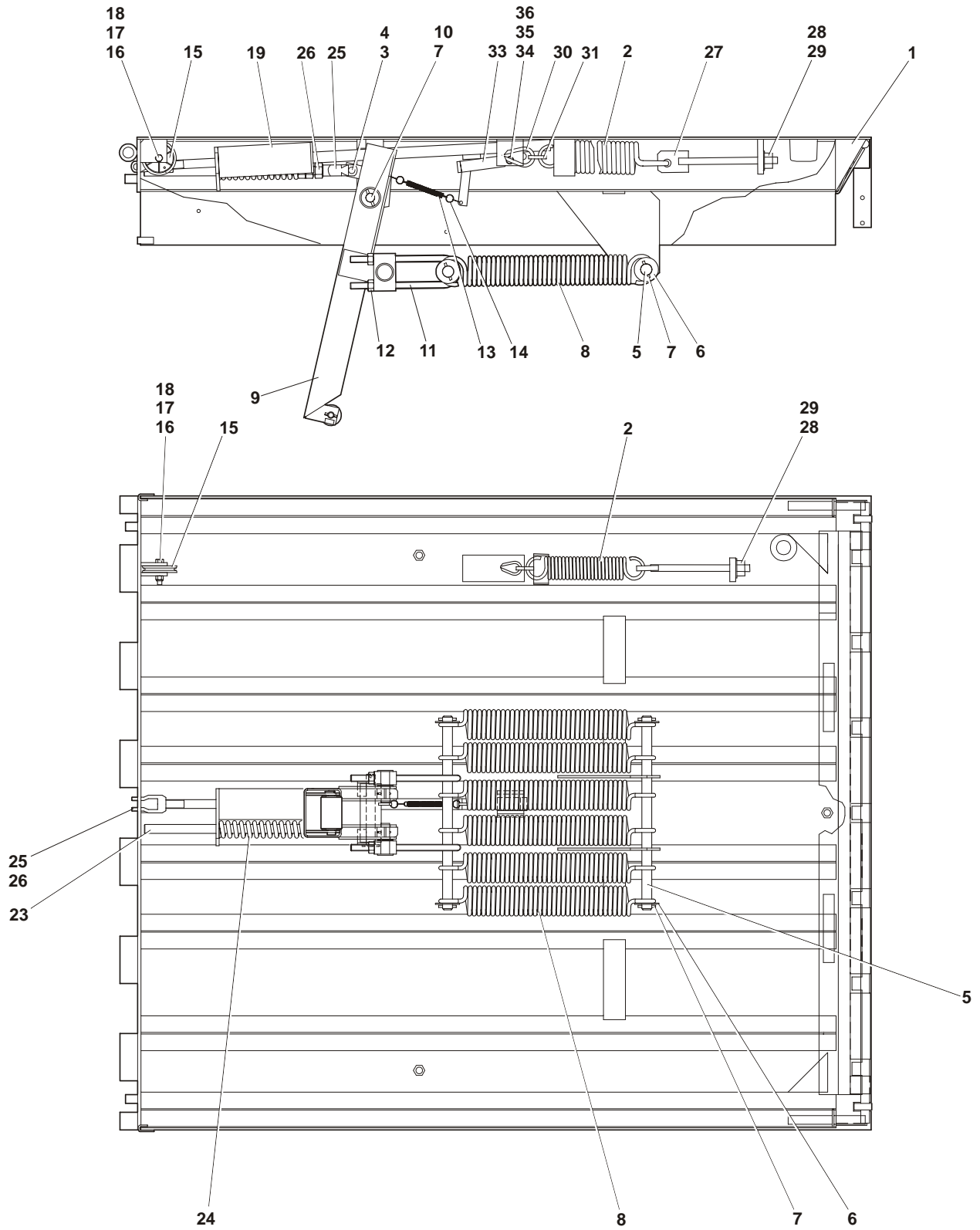


Figure 8 : Deck Sub-Assembly - 50,000 lb. Capacity

Deck Sub-Assembly - 50,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
18	1	011-554	Nut, Hex 1/2"-13 Nylon Insert	6',6'6",7"W/50#
19*	1	783-291	Shock Assy C/W Clevis,Nut	6', 8'/50#
19*	1	783-290	Shock Assy C/W Clevis,Nut	10'/50#
19*	1	783-289	Shock Assy C/W Clevis,Nut	12'/50#
20	1	793-375	Shock Absorber (6'&8'Ig Mech)	6', 8'/50#
20	1	793-374	Shock Absorber (6'&8'Ig Mech)	10'/50#
20	1	793-373	Shock Absorber (12'Ig Mech)	12'/50#
21	1	114-663	Clevis (Machined)	6',6'6",7"W/50#
22	1	011-511	Nut, Hex Jam 1"-8	6',6'6",7"W/50#
22	1	109-391	Lip Pusher Shaft (Mdl)	6', 8'/50#
22	1	109-390	Lip Pusher Shaft (Mdl)	10'/50#
23	1	109-437	Lip Pusher Shaft (Mdl)	12'/50#
24	1	223-0005	Compression Spring-Lip Assist	6',6'6",7"W/50#
25	1	114-663	Clevis (Machined)	6',6'6",7"W/50#
26	3	011-511	Nut, Hex Jam 1"-8	6',6'6",7"W/50#
27	1	223-5026	Spring Rod	6',6'6",7"W/50#
28	1	011-509	Nut, Hex - 5/8"-11	6',6'6",7"W/50#
29	1	012-213	Washer, Flat 5/8" Bs	6',6'6",7"W/50#
30	1	013-618	Thimble Cable	6',6'6",7"W/50#
32	1	222-5097	Spring Connection Plate	6',6'6",7"W/50#
33*	1	222-5022	Assy, Doghouse	6',6'6",7"W/40#,45#
34	1	793-965	Dog Assembly	6',6'6",7"W/40#,45#
35	2	018-001	Bushing	6',6'6",7"W/40#,45#
36	1	222-0010	Pin,Dog	6',6'6",7"W/40#,45#
37	1	013-011	Spring Pin, 1/4"X1-3/8"	6',6'6",7"W/40#,45#
38	2	113-043	Bar, Tilt	6',6'6",7"W/30#,35#

* - INDENTED SUB-ASSEMBLY – SHOWN ON SAME PAGE

** - SUB-ASSEMBLY SHOWN ON SEPARATE PAGE

17.7 Box Beam/Floating Rear Hinge - 25,000 lb. Capacity

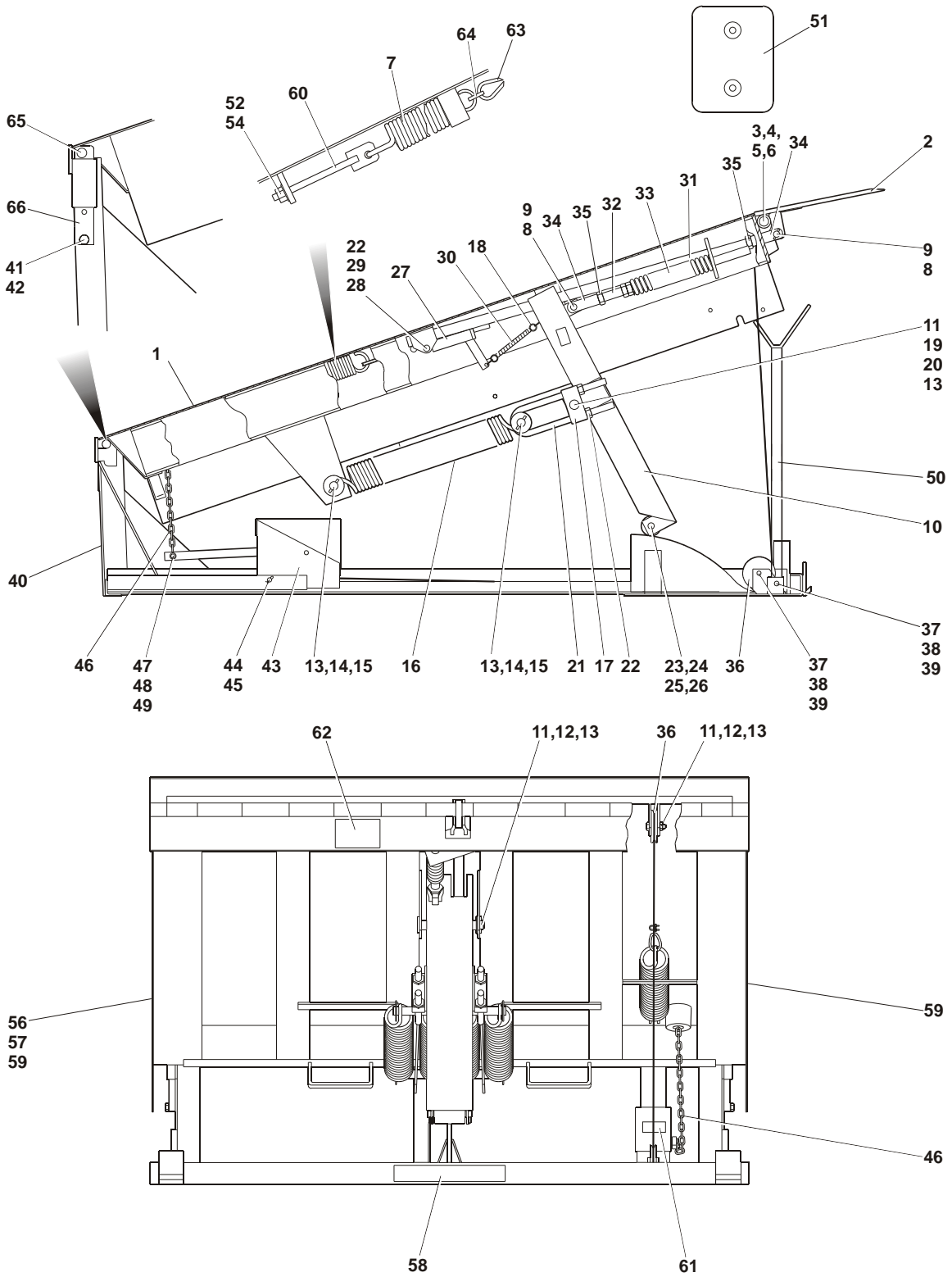


Figure 9 : General Assembly - 25,000 lb. Capacity

Box Beam/Floating Rear Hinge - 25,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
				220-5001
1	1	785-692	Deck Weldment 6'wide 25# 6'lg	6'Wx6'L/25#
1	1	785-691	Deck Weldment 6'wide 25# 8'lg	6'Wx8'L/25#
1	1	222-5005	Deck Weldment 6'6"wide 25# 6'lg	6'6"Wx6'L/25#
1	1	222-5005-1	Deck Weldment 6'6"wide 25# 8'lg	6'6"Wx8'L/25#
1	1	222-5010	Deck Weldment 7'wide 25# 6'lg	7'Wx6'L/25#
1	1	222-5010-1	Deck Weldment 7'wide 25# 8'lg	7'Wx8'L/25#
2	1	223-5022	Lip Wldmt 16" 6' 1/2" Thk	6'Wx6'L/25#
2	1	223-5022	Lip Wldmt 16" 6' 1/2" Thk	6'Wx8'L/25#
2	1	223-5020	Lip Wldmt 16" 6'6" 1/2" Thk	6'6"Wx6'L/25#
2	1	223-5020	Lip Wldmt 16" 6'6" 1/2" Thk	6'6"Wx8'L/25#
2	1	223-5021	Lip Wldmt 16" 7" 1/2" Thk	7'Wx6'L/25#
2	1	223-5021	Lip Wldmt 16" 7" 1/2" Thk	7'Wx8'L/25#
3	1	213-0005-1	Shaft, Lip 1"	6'Wx6'L/25#
3	1	213-0005-1	Shaft, Lip 1"	6'Wx8'L/25#
3	1	213-0005-2	Shaft, Lip 1"	6'6"Wx6'L/25#
3	1	213-0005-2	Shaft, Lip 1"	6'6"Wx8'L/25#
3	1	213-0005-3	Shaft, Lip 1"	7'Wx6'L/25#
3	1	213-0005-3	Shaft, Lip 1"	7'Wx8'L/25#
4	2	010-037	Capscrew, Hex Hd. - 5/16"-18 X 3/4"	6',6'6",7'W/25#
5	2	011-502	Nut, Hex 5/16"-18	6',6'6",7'W/25#
6	2	012-200	Washer, Lock 5/16" Hel.	6',6'6",7'W/25#
7	1	203-0019	Float Spring	6',6'6",7'W/25#
8	2	107-196	Pin, Clevis	6',6'6",7'W/25#
9	2	013-010	Spring Pin, 1/4"X1-1/4 LG.	6',6'6",7'W/25#
10	1	223-5023	Arm, Lifting Weldm't (Mech 6')	6'L/25#
10	1	223-5023-1	Arm, Lifting Weldm't (Mech 8')	8'L/25#
11	6	018-501	Bearing Ball-Load Whl	6',6'6",7'W/25#
12	1	788-176	Lifting Arm Pin	6',6'6",7'W/25#
13	7	013-012	Spring Pin, 1/4"X2"	6',6'6",7'W/25#
14	2	113-122	Shaft, Mainspring Hanger	6'W/25#
14	2	109-137	Shaft, Mainspring Hanger	6'6" & 7'W/25#
15	4	012-250	Washer Flat, 1-1/16"Id X 2-1/2"Od	6'W/25#
15	4	012-216	Washer Flat, 1-5/16" BS	6'6" & 7'W/25#
16	4	223-0004	Spring Dock Leveler Main	6'W/25#
16	5	223-0004	Spring Dock Leveler Main	6',6'6",7'W/25#
17	2	111-572	Adjusting Bracket	6',6'6",7'W/25#
18	4	013-134	Ring, Split Steel-Zinc .875"Dia	6',6'6",7'W/25#
19	2	788-085	U-Bolt Block Pin Assy	6',6'6",7'W/25#
20	2	105-879	Washer, 3/4"X1-3/16"X1/16"	6',6'6",7'W/25#
21	2	111-570	Adjustable U-Bolt	6',6'6",7'W/25#
22	5	011-510	Nut, Hex - 3/4"-10	6',6'6",7'W/25#
23	1	109-791	Lifting Arm Roller	6',6'6",7'W/25#
24	2	018-500	Bearing	6',6'6",7'W/25#
25	1	223-0000	Axle, Load Roller (4 3/4"Lg)	6',6'6",7'W/25#
26	1	013-011	Spring Pin 1/4"X1-3/8"	6',6'6",7'W/25#
27	1	793-965	Dog Assembly	6',6'6",7'W/25#
28	2	018-001	Bushing	6',6'6",7'W/25#
29	1	010-086	Capscrew, Hex Hd. 3/4"-10x3-1/4"	6',6'6",7'W/25#

Continued...

Box Beam/Floating Rear Hinge - 25,000 lb. Capacity

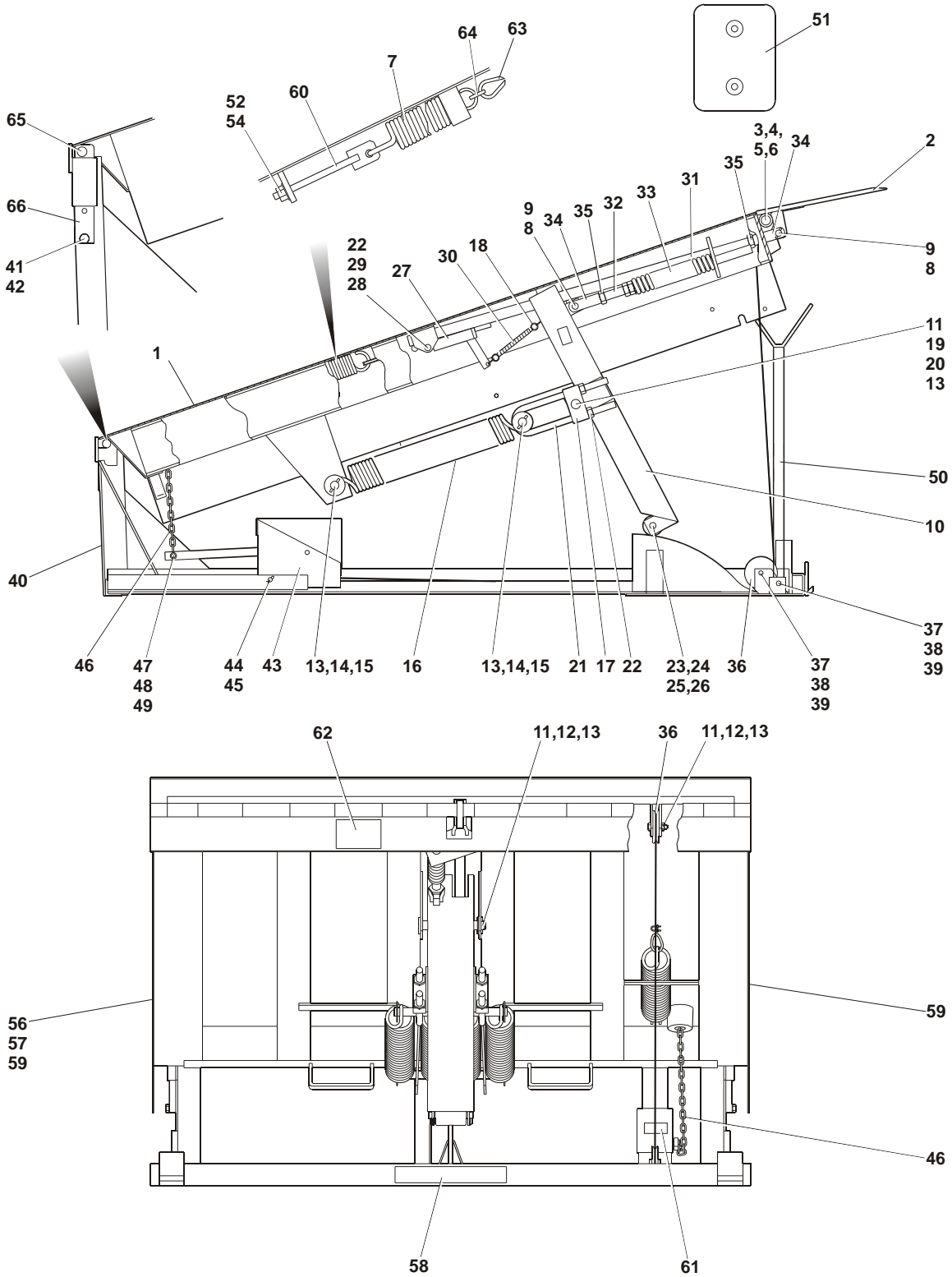


Figure 9 : General Assembly - 25,000 lb. Capacity

Box Beam/Floating Rear Hinge - 25,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
30	1	109-107	Spring Extension	6',6'6",7"W/25#
31	1	793-375	Shock Absorber	6',6'6",7"W/25#
32	1	109-391	Lip Pusher Shaft	6',6'6",7"W/25#
33	1	223-0005	Compression Spring-Lip Assis	6',6'6",7"W/25#
34	1	114-663	Clevis (Machined)	6',6'6",7"W/25#
35	3	011-511	Nut, Hex Jam - 1"-8	6',6'6",7"W/25#
36	2	793-092	Cable Roller	6',6'6",7"W/25#
37	3	010-027	Capscrew, Hex Hd. 1/2"-13x2-1/2"	6',6'6",7"W/25#
38	3	012-274	Washer, 1-1/2"Odx.540"ID	6',6'6",7"W/25#
39	3	011-554	Nut, Hex 1/2"-13 Nylon Insert	6',6'6",7"W/25#
40	1	785-870	Frame Weld (6'w 6'lg 25#)	6"Wx6'L/25#
40	1	785-872	Frame Weld (6'w 8'lg 25#)	6"Wx8'L/25#
40	1	222-5006	Frame Weld (6'6"w 6'lg 25#)	6'6"Wx6'L/25#
40	1	222-5006-2	Frame Weld (6'6"w 8'lg 25#)	6'6"Wx8'L/25#
40	1	222-5007	Frame Weld (7'w 6'lg 25#)	7"Wx6'L/25#
40	1	222-5007-2	Frame Weld (7'w 8'lg 25#)	7"Wx8'L/25#
41	2	010-021	Capscrew, Hex Hd. 1/2"-13x3/4"	6',6'6",7"W/25#
42	2	012-230	Washer, Lock-1/2" Int. Tooth	6',6'6",7"W/25#
43	1	788-037-2	Hold Down Box General Assy	6',6'6",7"W/25#
44	1	113-081	Hold Down Box Pin (Mdl)	6',6'6",7"W/25#
45	2	013-018	Cotter Pin 3/32"X1"	6',6'6",7"W/25#
46	1	788-197	Pull Chain Assembly	6',6'6",7"W/25#
47	1	010-007	Capscrew, Hex Hd. 5/16"-18x1-1/2"	6',6'6",7"W/25#
48	1	011-543	Nut, Hex-5/16"-18 Nylon Insert	6',6'6",7"W/25#
49	1	012-211	Washer, Flat 5/16" Bs	6',6'6",7"W/25#
50	1	200-5001	Safety Strut Ass'y	6',6'6",7"W/25#
51	2	110-886	Bumper DB13 - 10"X13"X4"	6',6'6",7"W/25#
52	2	012-213	Washer, Flat 5/8" Bs	6',6'6",7"W/25#
53	1	010-101	Capscrew, 5/8"-11x3"	6',6'6",7"W/25#
54	1	011-509	Nut, Hex 5/8"-11	6',6'6",7"W/25#
55	1GA	039-066	Paint, Blue (Fast Dry Enamel)	6',6'6",7"W/25#
56	1	108-120	Serial Number Plate	6',6'6",7"W/25#
57	4	011-083	Tack (Rivet)	6',6'6",7"W/25#
58	1	038-196	Decal Blue Giant	6',6'6",7"W/25#
59	.0837	038-010	Decal, Safety Stripe Blk/Yell	6',6'6",7"W/25#
60	1	223-5026	Spring Rod	6',6'6",7"W/25#
61	1	038-048-2	Decal, Warning	6',6'6",7"W/25#
62	1	832-317	Label, Warning "Do Not Work..."	6',6'6",7"W/25#
63	1	013-522	Thimble, Cable	6',6'6",7"W/25#
64	1	222-5097	Spring Connection Plate	6',6'6",7"W/25#
65	1	100-453	Pin, Deck Hinge	6"W/25#
65	1	113-643	Pin, Deck Hinge	6'6"W/25#
65	1	109-363	Pin, Deck Hinge	7"W/25#
66	2	113-043	Bar, Tilt	6',6'6",7"W/25#

17.8 Box Beam/Floating Rear Hinge - 30,000 lb. Capacity

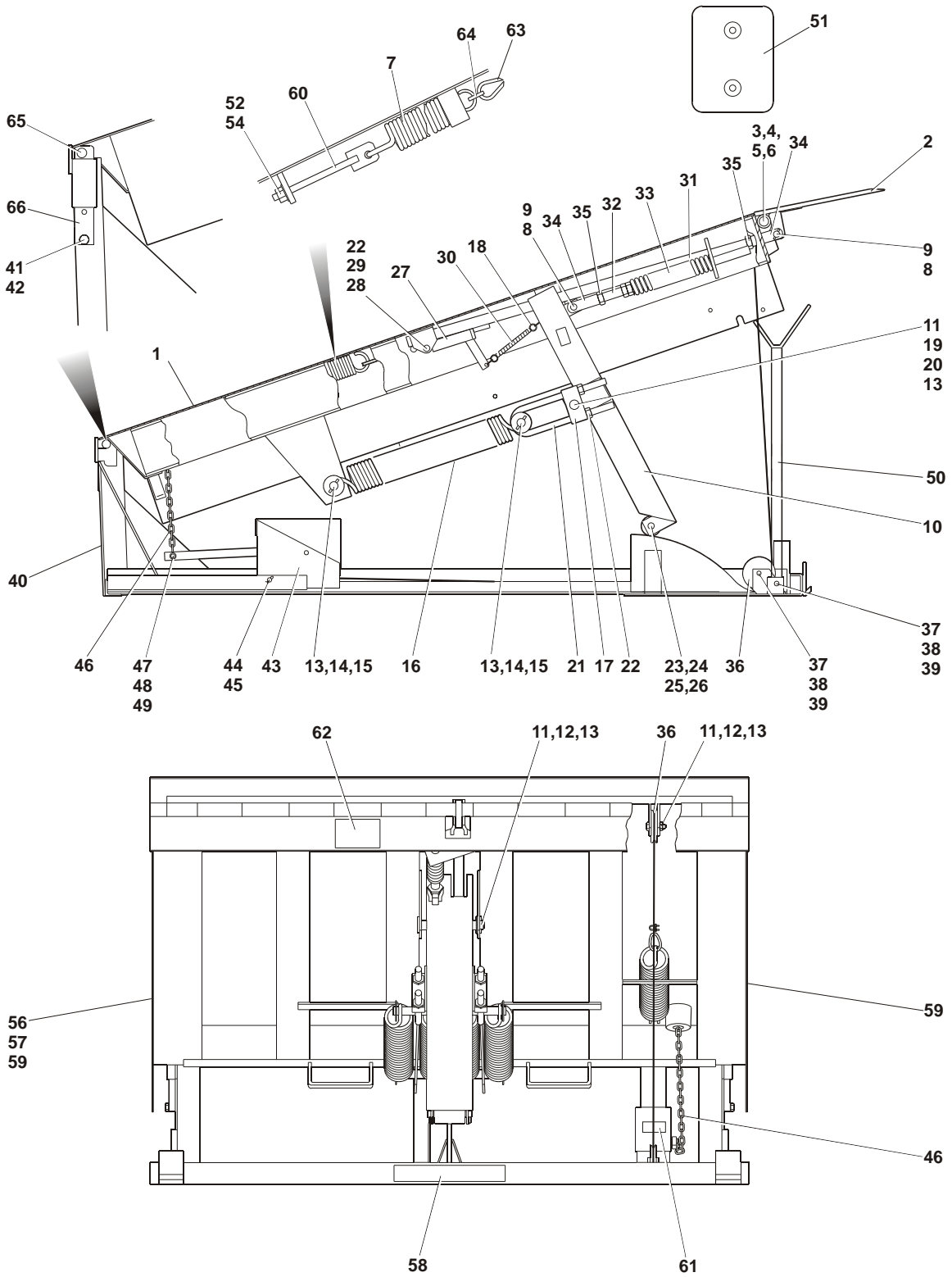


Figure 10 : General Assembly - 30,000 lb. Capacity

Box Beam/Floating Rear Hinge - 30,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
220-5000				
1	1	222-5000	Deck Weldment 6'wide 30# 6'lg	6"Wx6'L/30#
1	1	222-5000-1	Deck Weldment 6'wide 30# 8'lg	6"Wx8'L/30#
1	1	222-5002	Deck Weldment 6'6"wide 30# 6'lg	6'6"Wx6'L/30#
1	1	222-5002-1	Deck Weldment 6'6"wide 30# 8'lg	6'6"Wx8'L/30#
1	1	222-5001	Deck Weldment 7'wide 30# 6'lg	7"Wx6'L/30#
1	1	222-5001	Deck Weldment 7'wide 30# 8'lg	7"Wx8'L/30#
2	1	223-5017	Lip Wldmt 16" 6' 1/2" Thk	6"Wx6'L/30#
2	1	223-5017	Lip Wldmt 16" 6' 1/2" Thk	6"Wx8'L/30#
2	1	223-5019	Lip Wldmt 16" 6'6" 1/2" Thk	6'6"Wx6'L/30#
2	1	223-5019	Lip Wldmt 16" 6'6" 1/2" Thk	6'6"Wx8'L/30#
2	1	223-5018	Lip Wldmt 16" 7" 1/2" Thk	7"Wx6'L/30#
2	1	223-5018	Lip Wldmt 16" 7" 1/2" Thk	7"Wx8'L/30#
3	1	109-699	Shaft, Lip	6"Wx6'L/30#
3	1	109-699	Shaft, Lip	6"Wx8'L/30#
3	1	109-687-1	Shaft, Lip	6'6"Wx6'L/30#
3	1	109-687-1	Shaft, Lip	6'6"Wx8'L/30#
3	1	109-690	Shaft, Lip	7"Wx6'L/30#
3	1	109-690	Shaft, Lip	7"Wx8'L/30#
4	2	010-037	Capscrew, Hex Hd. - 5/16"-18 X 3/4"	6',6'6",7'W/30#
5	2	011-502	Nut, Hex 5/16"-18	6',6'6",7'W/30#
6	2	012-200	Washer, Lock 5/16" Hel.	6',6'6",7'W/30#
7	1	203-0019	Float Spring	6',6'6",7'W/30#
8	2	107-196	Pin, Clevis	6',6'6",7'W/30#
9	2	013-010	Spring Pin, 1/4"X1-1/4 LG.	6',6'6",7'W/30#
10	1	223-5023	Arm, Lifting Weldm't (Mech 6')	6'L/30#
10	1	223-5023-1	Arm, Lifting Weldm't (Mech 8')	8'L/30#
11	6	018-501	Bearing Ball-Load Whl	6',6'6",7'W/30#
12	1	788-176	Lifting Arm Pin	6',6'6",7'W/30#
13	7	013-012	Spring Pin, 1/4"X2"	6',6'6",7'W/30#
14	2	113-122	Shaft, Mainspring Hanger	6'W/30#
14	2	109-137	Shaft, Mainspring Hanger	6'6" & 7'W/30#
15	4	012-250	Washer Flat, 1-1/16"Id X 2-1/2"Od	6'W/30#
15	4	012-216	Washer Flat, 1-5/16" BS	6'6" & 7'W/30#
16	4	223-0004	Spring Dock Leveler Main	6'W/30#
16	5	223-0004	Spring Dock Leveler Main	6',6'6",7'W/30#
17	2	111-572	Adjusting Bracket	6',6'6",7'W/30#
18	4	013-134	Ring, Split Steel-Zinc .875"Dia	6',6'6",7'W/30#
19	2	788-085	U-Bolt Block Pin Assy	6',6'6",7'W/30#
20	2	105-879	Washer, 3/4"X1-3/16"X1/16"	6',6'6",7'W/30#
21	2	111-570	Adjustable U-Bolt	6',6'6",7'W/30#
22	5	011-510	Nut, Hex - 3/4"-10	6',6'6",7'W/30#
23	1	109-791	Lifting Arm Roller	6',6'6",7'W/30#
24	2	018-500	Bearing	6',6'6",7'W/30#
25	1	223-0000	Axle, Load Roller (4 3/4"Lg)	6',6'6",7'W/30#
26	1	013-011	Spring Pin 1/4"X1-3/8"	6',6'6",7'W/30#
27	1	793-965	Dog Assembly	6',6'6",7'W/30#
28	2	018-001	Bushing	6',6'6",7'W/30#
29	1	010-086	Capscrew, Hex Hd. 3/4"-10x3-1/4"	6',6'6",7'W/30#

Continued...

Box Beam/Floating Rear Hinge - 30,000 lb. Capacity

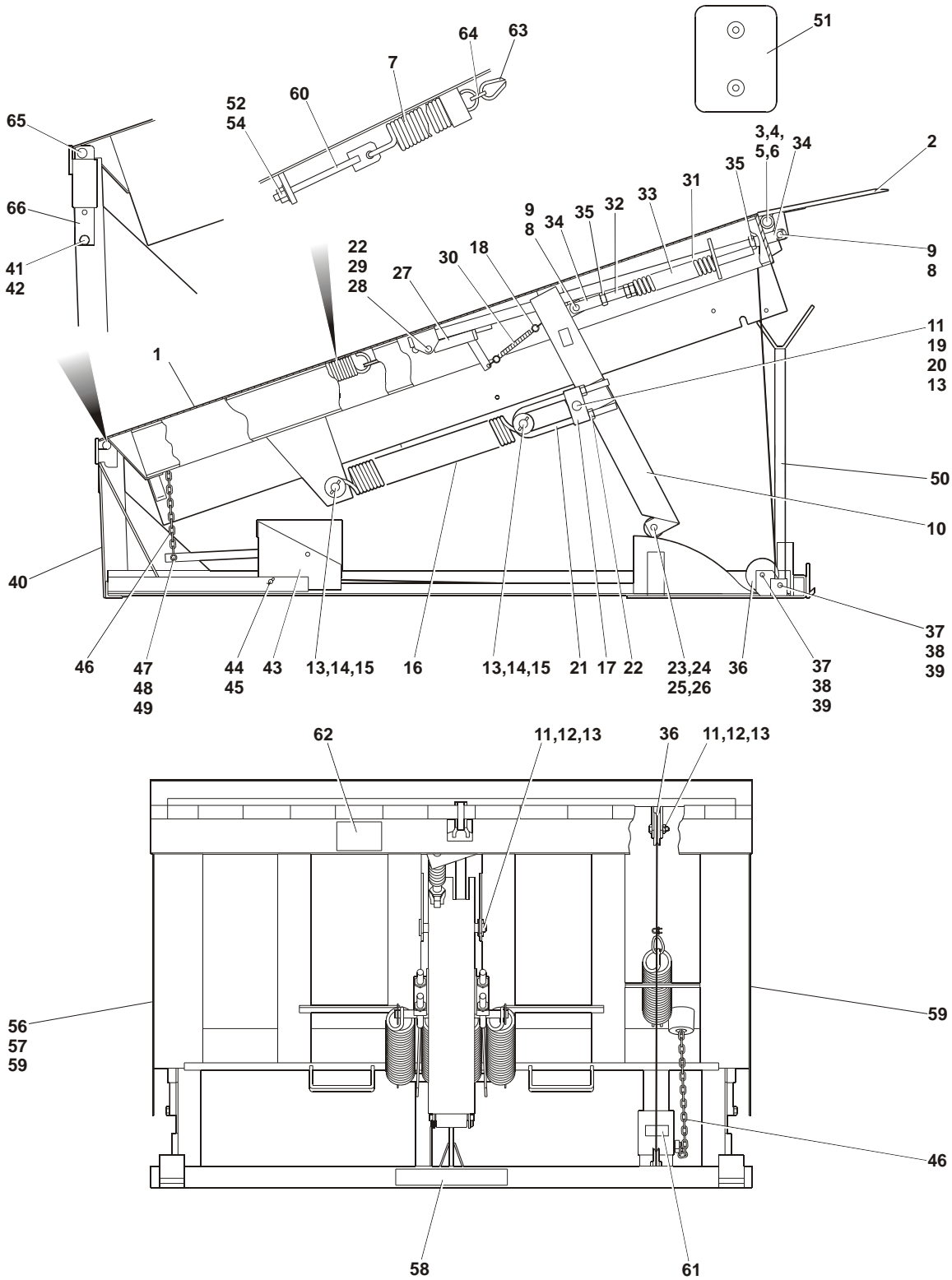


Figure 10 : General Assembly - 30,000 lb. Capacity

Box Beam/Floating Rear Hinge - 30,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
30	1	109-107	Spring Extension	6',6'6",7"W/30#
31	1	793-375	Shock Absorber	6',6'6",7"W/30#
32	1	109-391	Lip Pusher Shaft	6',6'6",7"W/30#
33	1	223-0005	Compression Spring-Lip Assis	6',6'6",7"W/30#
34	1	114-663	Clevis (Machined)	6',6'6",7"W/30#
35	3	011-511	Nut, Hex Jam - 1"-8	6',6'6",7"W/30#
36	2	793-092	Cable Roller	6',6'6",7"W/30#
37	3	010-027	Capscrew, Hex Hd. 1/2"-13x2-1/2"	6',6'6",7"W/30#
38	3	012-274	Washer, 1-1/2"Odx.540"ID	6',6'6",7"W/30#
39	3	011-554	Nut, Hex 1/2"-13 Nylon Insert	6',6'6",7"W/30#
40	1	222-5033	Frame Weld (6'w 6'lg 30#)	6"Wx6'L/30#
40	1	222-5033-3	Frame Weld (6'w 8'lg 30#)	6"Wx8'L/30#
40	1	222-5034	Frame Weld (6'6"w 6'lg 30#)	6'6"Wx6'L/30#
40	1	222-5034-3	Frame Weld (6'6"w 8'lg 30#)	6'6"Wx8'L/30#
40	1	222-5035	Frame Weld (7"w 6'lg 30#)	7"Wx6'L/30#
40	1	222-5035-3	Frame Weld (7"w 8'lg 30#)	7"Wx8'L/30#
41	2	010-021	Capscrew, Hex Hd. 1/2"-13x3/4"	6',6'6",7"W/30#
42	2	012-230	Washer, Lock-1/2" Int. Tooth	6',6'6",7"W/30#
43	1	788-037-2	Hold Down Box General Assy	6',6'6",7"W/30#
44	1	113-081	Hold Down Box Pin (Mdl)	6',6'6",7"W/30#
45	2	013-018	Cotter Pin 3/32"X1"	6',6'6",7"W/30#
46	1	788-197	Pull Chain Assembly	6',6'6",7"W/30#
47	1	010-007	Capscrew, Hex Hd. 5/16"-18x1-1/2"	6',6'6",7"W/30#
48	1	011-543	Nut, Hex-5/16"-18 Nylon Insert	6',6'6",7"W/30#
49	1	012-211	Washer, Flat 5/16" Bs	6',6'6",7"W/30#
50	1	200-5001	Safety Strut Ass'y	6',6'6",7"W/30#
51	2	110-886	Bumper DB13 - 10"X13"X4"	6',6'6",7"W/30#
52	2	012-213	Washer, Flat 5/8" Bs	6',6'6",7"W/30#
53	1	010-101	Capscrew, 5/8"-11x3"	6',6'6",7"W/30#
54	1	011-509	Nut, Hex 5/8"-11	6',6'6",7"W/30#
55	1GA	039-066	Paint, Blue (Fast Dry Enamel)	6',6'6",7"W/30#
56	1	108-120	Serial Number Plate	6',6'6",7"W/30#
57	4	011-083	Tack (Rivet)	6',6'6",7"W/30#
58	1	038-196	Decal Blue Giant	6',6'6",7"W/30#
59	.0837	038-010	Decal, Safety Stripe Blk/Yell	6',6'6",7"W/30#
60	1	223-5026	Spring Rod	6',6'6",7"W/30#
61	1	038-048-2	Decal, Warning	6',6'6",7"W/30#
62	1	832-317	Label, Warning "Do Not Work..."	6',6'6",7"W/30#
63	1	222-5097	Spring Connection Plate	6',6'6",7"W/30#
64	1	013-522	Thimble, Cable	6',6'6",7"W/30#
65	1	100-453	Pin, Deck Hinge	6"W/30#
65	1	113-643	Pin, Deck Hinge	6'6"W/30#
65	1	109-363	Pin, Deck Hinge	7"W/30#
66	2	113-043	Bar, Tilt	6',6'6",7"W/30#

17.9 Box Beam/Floating Rear Hinge - 35,000 lb. Capacity

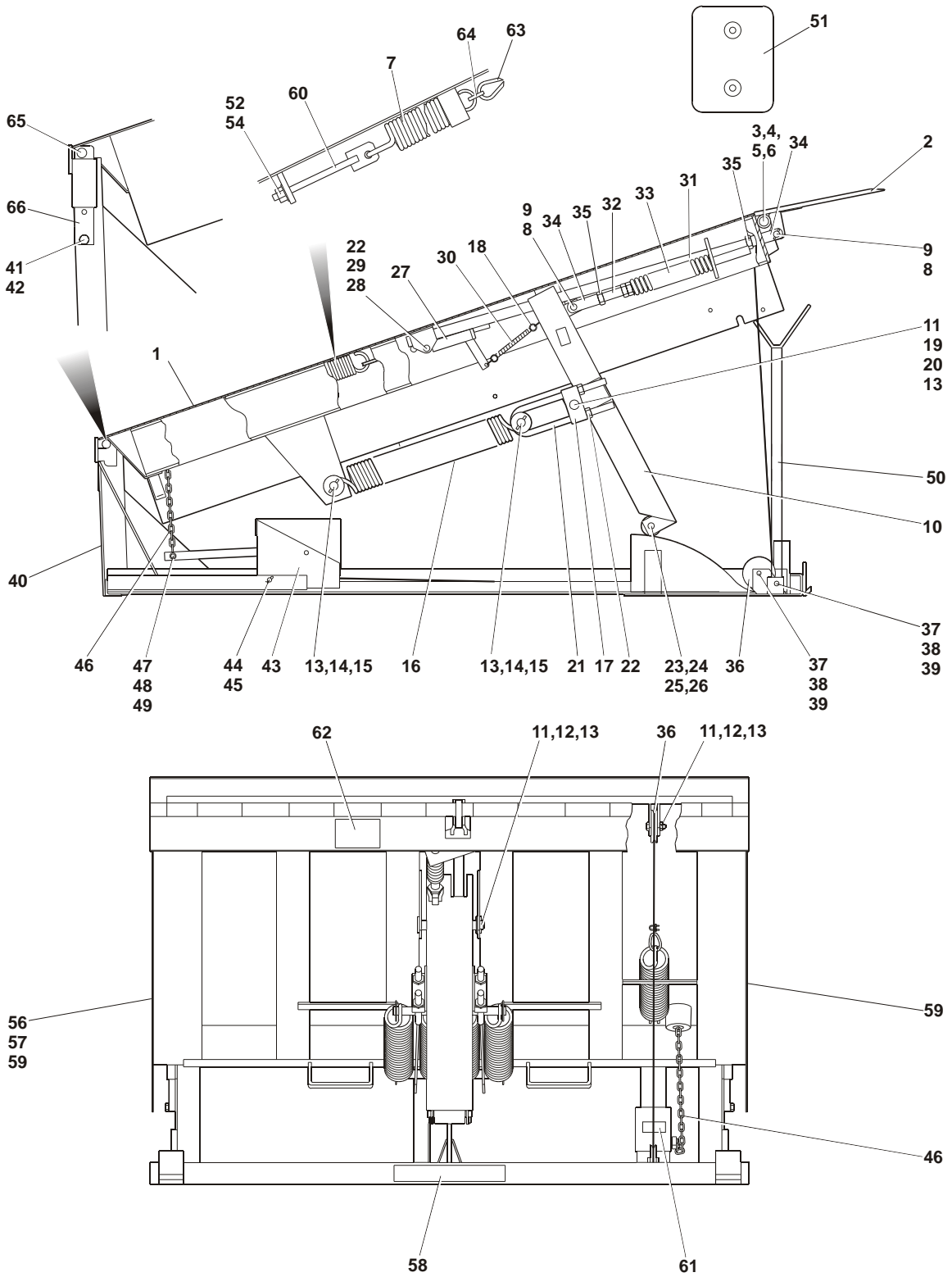


Figure 11 : General Assembly - 35,000 lb. Capacity

Box Beam/Floating Rear Hinge - 35,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
				220-5005
1	1	222-5039	Deck Weldment 6'wide 35# 6'lg	6"Wx6'L/35#
1	1	222-5039-1	Deck Weldment 6'wide 35# 8'lg	6"Wx8'L/35#
1	1	222-5040	Deck Weldment 6'6"wide 35# 6'lg	6'6"Wx6'L/35#
1	1	222-5040-1	Deck Weldment 6'6"wide 35# 8'lg	6'6"Wx8'L/35#
1	1	222-5041	Deck Weldment 7'wide 35# 6'lg	7"Wx6'L/35#
1	1	222-5041-1	Deck Weldment 7'wide 35# 8'lg	7"Wx8'L/35#
2	1	223-5016	Lip Wldmt 16" 6' 1/2" Thk	6"Wx6'L/35#
2	1	223-5016	Lip Wldmt 16" 6' 1/2" Thk	6"Wx8'L/35#
2	1	223-5012	Lip Wldmt 16" 6'6" 1/2" Thk	6'6"Wx6'L/35#
2	1	223-5012	Lip Wldmt 16" 6'6" 1/2" Thk	6'6"Wx8'L/35#
2	1	223-5001	Lip Wldmt 16" 7" 1/2" Thk	7"Wx6'L/35#
2	1	223-5001	Lip Wldmt 16" 7" 1/2" Thk	7"Wx8'L/35#
3	1	109-699	Shaft, Lip	6"Wx6'L/35#
3	1	109-699	Shaft, Lip	6"Wx8'L/35#
3	1	109-687-1	Shaft, Lip	6'6"Wx6'L/35#
3	1	109-687-1	Shaft, Lip	6'6"Wx8'L/35#
3	1	109-690	Shaft, Lip	7"Wx6'L/35#
3	1	109-690	Shaft, Lip	7"Wx8'L/35#
4	2	010-037	Capscrew, Hex Hd. - 5/16"-18 X 3/4"	6',6'6",7"W/35#
5	2	011-502	Nut, Hex 5/16"-18	6',6'6",7"W/35#
6	2	012-200	Washer, Lock 5/16" Hel.	6',6'6",7"W/35#
7	1	203-0019	Float Spring	6',6'6",7"W/35#
8	2	107-196	Pin, Clevis	6',6'6",7"W/35#
9	2	013-010	Spring Pin, 1/4"X1-1/4 LG.	6',6'6",7"W/35#
10	1	223-5023	Arm, Lifting Weldm't (Mech 6')	6'L/35#
10	1	223-5023-1	Arm, Lifting Weldm't (Mech 8')	8'L/35#
11	6	018-501	Bearing Ball-Load Whl	6',6'6",7"W/35#
12	1	788-176	Lifting Arm Pin	6',6'6",7"W/35#
13	7	013-012	Spring Pin, 1/4"X2"	6',6'6",7"W/35#
14	2	113-122	Shaft, Mainspring Hanger	6"W/35#
14	2	109-137	Shaft, Mainspring Hanger	6'6" & 7"W/35#
15	4	012-250	Washer Flat, 1-1/16"Id X 2-1/2"Od	6"W/35#
15	4	012-216	Washer Flat, 1-5/16" BS	6'6" & 7"W/35#
16	5	223-0004	Spring Dock Leveler Main	6',6'6",7"W/35#
17	2	111-572	Adjusting Bracket	6',6'6",7"W/35#
18	4	013-134	Ring, Split Steel-Zinc .875"Dia	6',6'6",7"W/35#
19	2	788-085	U-Bolt Block Pin Assy	6',6'6",7"W/35#
20	2	105-879	Washer, 3/4"X1-3/16"X1/16"	6',6'6",7"W/35#
21	2	111-570	Adjustable U-Bolt	6',6'6",7"W/35#
22	5	011-510	Nut, Hex - 3/4"-10	6',6'6",7"W/35#
23	1	109-791	Lifting Arm Roller	6',6'6",7"W/35#
24	2	018-500	Bearing	6',6'6",7"W/35#
25	1	223-0000	Axle, Load Roller (4 3/4"Lg)	6',6'6",7"W/35#
26	1	013-011	Spring Pin 1/4"X1-3/8"	6',6'6",7"W/35#
27	1	793-965	Dog Assembly	6',6'6",7"W/35#
28	2	018-001	Bushing	6',6'6",7"W/35#
29	1	010-086	Capscrew, Hex Hd. 3/4"-10x3-1/4"	6',6'6",7"W/35#

Box Beam/Floating Rear Hinge - 35,000 lb. Capacity

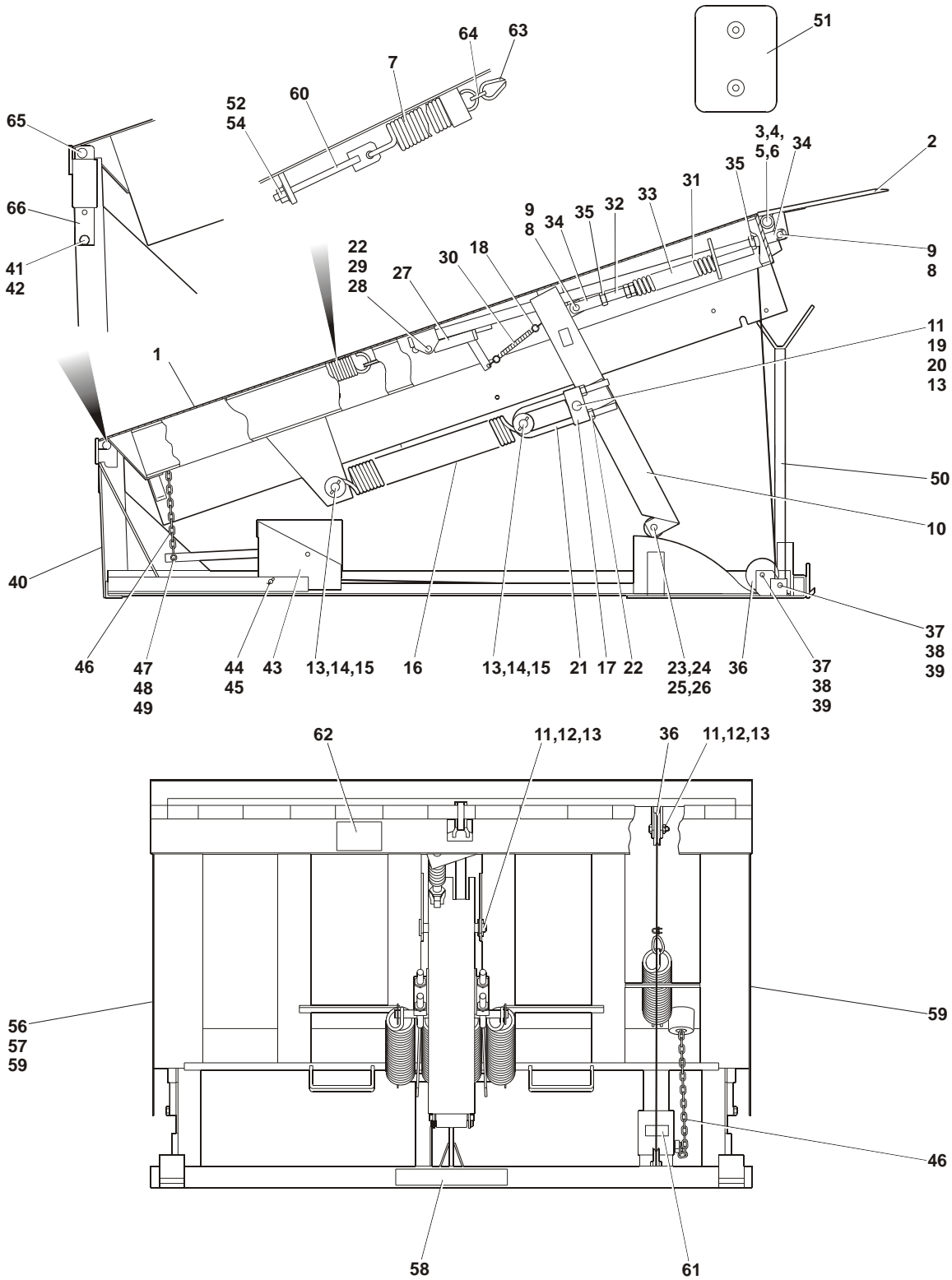


Figure 11 : General Assembly - 35,000 lb. Capacity

Box Beam/Floating Rear Hinge - 35,000 lb. Capacity

Item	Qty	Part No	General Description	Specific Description
30	1	109-107	Spring Extension	6',6'6",7"W/35#
31	1	793-375	Shock Absorber	6',6'6",7"W/35#
32	1	109-391	Lip Pusher Shaft	6',6'6",7"W/35#
33	1	223-0005	Compression Spring-Lip Assis	6',6'6",7"W/35#
34	1	114-663	Clevis (Machined)	6',6'6",7"W/35#
35	3	011-511	Nut, Hex Jam - 1"-8	6',6'6",7"W/35#
36	2	793-092	Cable Roller	6',6'6",7"W/35#
37	3	010-027	Capscrew, Hex Hd. 1/2"-13x2-1/2"	6',6'6",7"W/35#
38	3	012-274	Washer, 1-1/2"Odx.540"ID	6',6'6",7"W/35#
39	3	011-554	Nut, Hex 1/2"-13 Nylon Insert	6',6'6",7"W/35#
40	1	222-5033	Frame Weld (6'w 6'lg 35#)	6'Wx6'L/35#
40	1	222-5033-3	Frame Weld (6'w 8'lg 35#)	6'Wx8'L/35#
40	1	222-5034	Frame Weld (6'6"w 6'lg 35#)	6'6"Wx6'L/35#
40	1	222-5034-3	Frame Weld (6'6"w 8'lg 35#)	6'6"Wx8'L/35#
40	1	222-5035	Frame Weld (7"w 6'lg 35#)	7'Wx6'L/35#
40	1	222-5035-3	Frame Weld (7"w 8'lg 35#)	7'Wx8'L/35#
41	2	010-021	Capscrew, Hex Hd. 1/2"-13x3/4"	6',6'6",7"W/35#
42	2	012-230	Washer, Lock-1/2" Int. Tooth	6',6'6",7"W/35#
43	1	788-037-2	Hold Down Box General Assy	6',6'6",7"W/35#
44	1	113-081	Hold Down Box Pin (Mdl)	6',6'6",7"W/35#
45	2	013-018	Cotter Pin 3/32"X1"	6',6'6",7"W/35#
46	1	788-197	Pull Chain Assembly	6',6'6",7"W/35#
47	1	010-007	Capscrew, Hex Hd. 5/16"-18x1-1/2"	6',6'6",7"W/35#
48	1	011-543	Nut, Hex-5/16"-18 Nylon Insert	6',6'6",7"W/35#
49	1	012-211	Washer, Flat 5/16" Bs	6',6'6",7"W/35#
50	1	200-5001	Safety Strut Ass'y	6',6'6",7"W/35#
51	2	110-886	Bumper DB13 - 10"X13"X4"	6',6'6",7"W/35#
52	2	103-761	Lifting Bracket	6',6'6",7"W/35#
53	2	010-059	Capscrew, Hex Hd. 3/4"-10x2"	6',6'6",7"W/35#
54	2	012-214	Washer, Flat 3/4" Bs	6',6'6",7"W/35#
55	2	012-213	Washer, Flat 5/8" Bs	6',6'6",7"W/35#
56	1	010-101	Capscrew, 5/8"-11x3"	6',6'6",7"W/35#
57	1	011-509	Nut, Hex 5/8"-11	6',6'6",7"W/35#
58	1GA	039-066	Paint, Blue (Fast Dry Enamel)	6',6'6",7"W/35#
59	1	108-120	Serial Number Plate	6',6'6",7"W/35#
60	4	011-083	Tack (Rivet)	6',6'6",7"W/35#
61	1	038-196	Decal Blue Giant	6',6'6",7"W/35#
62	.0837	038-010	Decal, Safety Stripe Blk/Yell	6',6'6",7"W/35#
63	1	220-5006	Literature Package	6',6'6",7"W/35#
63	1	223-5026	Spring Rod	6',6'6",7"W/35#
64	1	038-048-2	Decal, Warning	6',6'6",7"W/35#
65	1	832-317	Label, Warning "Do Not Work..."	6',6'6",7"W/35#
66	1	038-166	Tag,Relocate Bolt (6.25"X3")	6',6'6",7"W/35#
67	1	222-5097	Spring Connection Plate	6',6'6",7"W/35#
68	1	100-453	Pin, Deck Hinge	6'W/35#
68	1	113-643	Pin, Deck Hinge	6'6"W/35#
68	1	109-363	Pin, Deck Hinge	7'W/35#
69	2	113-043	Bar, Tilt	6',6'6",7"W/35#

17.10 Hold Down Box Assembly

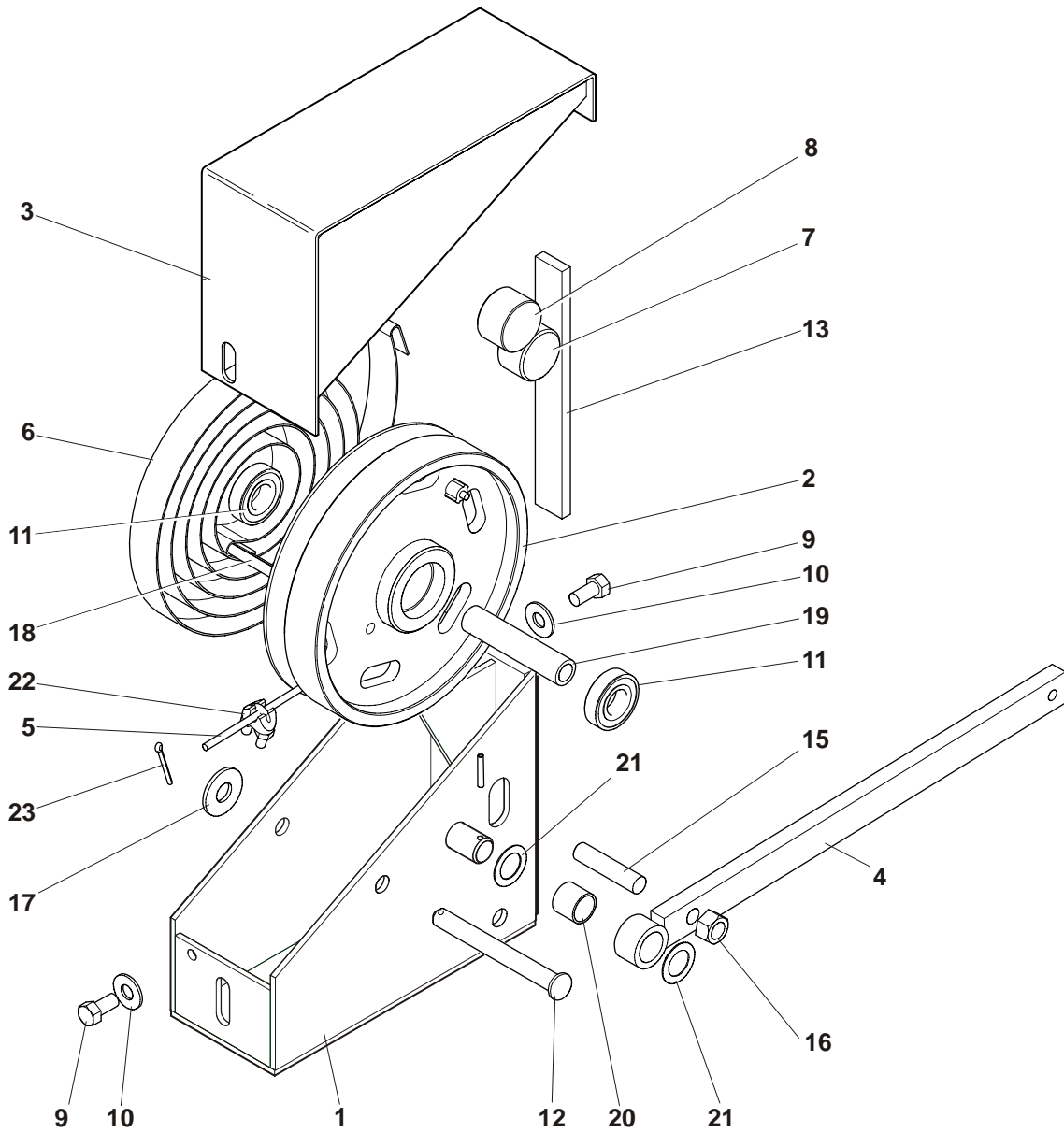


Figure 12 : Hold Down Box Assembly

Hold Down Box Assembly

Item	Qty	Part No	General Description	Specific Description
-	-	788-037-2S	Assembly, Hold Down Box	6' & 8' All Models
-	-	788-037-3S	Assembly, Hold Down Box	10' & 12' All Models
1	-	-----	Hold Down Box Weldment	Not Available Separately
2	1	788-111-2	Rewind Wheel Assembly For ¼" Cable	All Models
3	-	-----	Hold Down Box Cover	Not Available Separately
4	1	785-055	Release Arm	All Models
5	1	223-0017	Hold Down Cable ¼" With Finished Ends	6' & 8' All Models
5	1	223-0017-1	Hold Down Cable ¼" With Finished Ends	10' & 12' All Models
6	1	113-143	Coil Spring	All Models
7	1	103-167	Lock Roller (Hardened)	All Models
8	1	113-085	Counter Weight	All Models
9	2	010-012	Capscrew, Hex Hd. 3/8"-16x3/4"	All Models
10	2	012-210	Washer, Flat - 1/4" Bolt S	All Models
11	2	018-500	Bearing	All Models
12	1	210-0005	Pin (4.5") Zinc Plated	All Models
13	1	113-089	Wear Strip	All Models
14	1	013-005	Spring Pin 5/32"X1"Lg	All Models
15	1	113-090	Stud	All Models
16	1	011-508	Nut, Hex 1/2"-13	All Models
17	1	012-239	Washer, Spacer-0.501/0.505 Idx1"Odx1/8"THK	All Models
18	1	013-094	Spring Pin - 5/16"X2-1/2"LG	All Models
19	1	113-198	Rewind Wheel Sleeve	All Models
20	1	018-001	Bushing	All Models
21	2	105-878	Washer	All Models
22	1	013-536	Clamp-1/4" Dia Cable	All Models
23	1	013-021	Cotter Pin-1/8"X1-1/4"	All Models

17.11 Safety Side Skirts

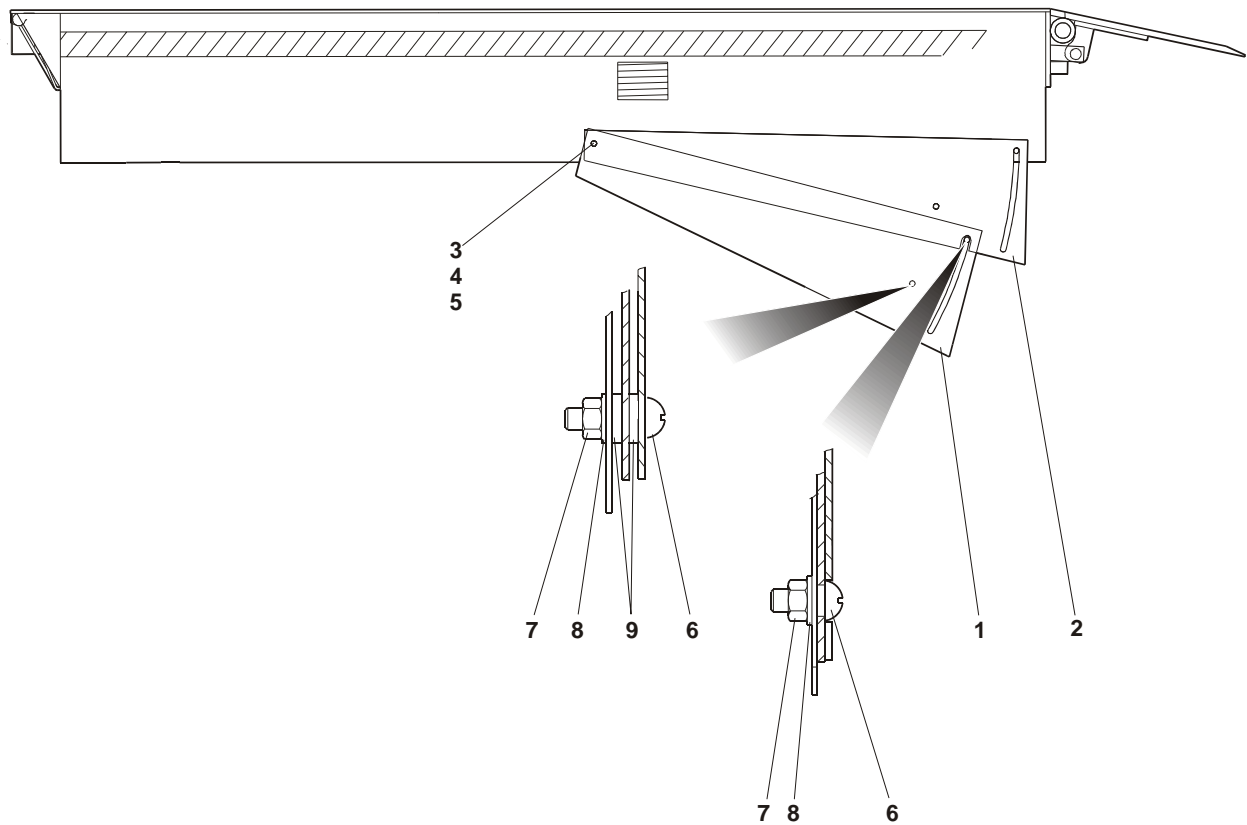


Figure 13 : Side Safety Skirts

17.12 Side Safety Skirts

Item	Qty	Part No	General Description	Specific Description
-	-	202-5024	Safety Skirt Package	6 & 8' Long
-	-	202-5024-1	Safety Skirt Package	10' Long
-	-	202-5024-2	Safety Skirt Package	12' Long
1	2	202-0036	Safety Skirt, Lower	6 & 8' Long
1	2	202-5036-1	Safety Skirt, Lower	10' Long
1	2	202-5035	Safety Skirt, Lower	12' Long
2	2	202-0037	Middle Safety Skirt	6 & 8' Long
2	2	202-5037-1	Middle Safety Skirt	10' & 12' Long
3	2	010-039	Cap Screw, Hex Hd. - 3/8"-16x1"	All Models
4	2	012-252	Washer, Flat -3/8"ID BS Washer	All Models
5	2	011-552	Nut, Hex 3/8"-16 Nylon Insert	All Models
6	4	011-135	Capscrew, Sckt Butn/Hd 5/16"-18x3/4"	All Models
7	4	011-543	Nut, Hex - 5/16"-18 Nylon Insert	All Models
8	4	012-211	Washer, Zinc 5/16" Bs Flat	All Models
9	4	012-312	Washer Nylon Fender 5/16"IDx 7/8"ODx1/16"TH	All Models
10	2GA	039-059	Paint, Safety Yellow	All Models

17.13 Weatherseals

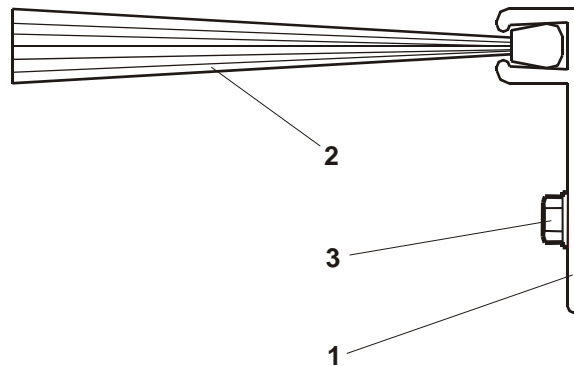


Figure 14 : Brush Style Side Weatherseal

Item	Qty	Part No	General Description	Specific Description
-	-	-	Weatherseal, Brush Style Side	206-5019
1	2	091-136	Retainer, Aluminum (57"Lg)	6' Long
1	2	091-137	Retainer, Aluminum (81"Lg)	8' Long
1	2	091-138	Retainer, Aluminum (105"Lg)	10' Long
1	2	091-139	Retainer, Aluminum (129"Lg)	12' Long
2	2	091-162	Weatherseal, Brush Style 2"x58"	6' Long
2	2	091-163	Weatherseal, Brush Style 2"x82"	8' Long
2	2	091-278	Weatherseal, Brush Style 106"	10' Long
2	2	091-279	Weatherseal, Brush Style 130"	12' Long
3	6	011-159	Screw #12-14 X 3/4"	6' Long
3	10	011-159	Screw #12-14 X 3/4"	8' Long
3	12	011-159	Screw #12-14 X 3/4"	10' Long
3	14	011-159	Screw #12-14 X 3/4"	12' Long

Item	Qty	Part No	General Description	Specific Description
-	-	-	Weatherseal, Brush Style Zebra Y/B	206-5083
1	2	091-136	Retainer, Aluminum (57"Lg)	6' Long
1	2	091-137	Retainer, Aluminum (81"Lg)	8' Long
1	2	091-138	Retainer, Aluminum (105"Lg)	10' Long
1	2	091-139	Retainer, Aluminum (129"Lg)	12' Long
2	2	091-274	Weatherseal, Brush Zebra Y/B 2"x58"	6' Long
2	2	091-275	Weatherseal, Brush Zebra Y/B 2"x82"	8' Long
2	2	091-276	Weatherseal, Brush Zebra Y/B 2"x106"	10' Long
2	2	091-279	Weatherseal, Brush Zebra Y/B 2"x130"	12' Long
3	6	011-159	Screw #12-14 X 3/4"	6' Long
3	10	011-159	Screw #12-14 X 3/4"	8' Long
3	12	011-159	Screw #12-14 X 3/4"	10' Long
3	14	011-159	Screw #12-14 X 3/4"	12' Long

Weatherseal Side Rubber Style

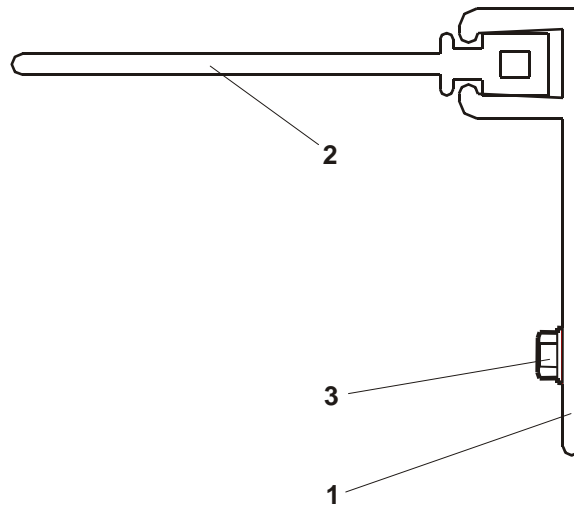


Figure 15 : Rubber Style Side Weatherseal

Item	Qty	Part No	General Description	Specific Description
-	-	-	Weatherseal, Rubber Side	206-5017
1	2	091-136	Retainer, Aluminum (57"Lg)	6' Long
1	2	091-137	Retainer, Aluminum (81"Lg)	8' Long
1	2	091-138	Retainer, Aluminum (105"Lg)	10' Long
1	2	091-139	Retainer, Aluminum (129"Lg)	12' Long
2	2	091-133-0580	Rubber, Weatherstripping 58"	6' Long
2	2	091-133-0820	Rubber, Weatherstripping 82"	8' Long
2	2	091-133-1060	Rubber, Weatherstripping 106"	10' Long
2	2	091-133-1300	Rubber, Weatherstripping 130"	12' Long
3	6	011-159	Screw #12-14 X 3/4"	6' Long
3	8	011-159	Screw #12-14 X 3/4"	8' Long
3	10	011-159	Screw #12-14 X 3/4"	10' Long
3	14	011-159	Screw #12-14 X 3/4"	12' Long

Weatherseal - Rear Rubber Style

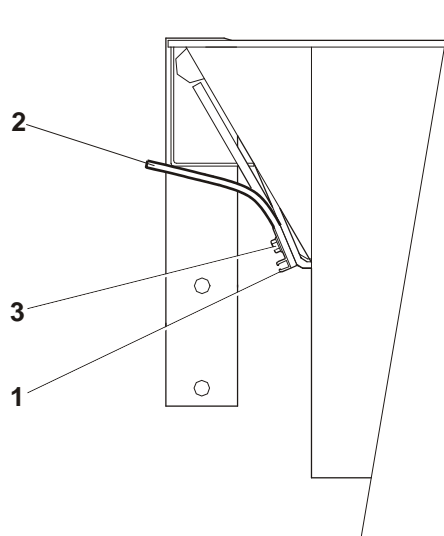


Figure 16 : Rear Rubber Style Weatherseal

Item	Qty	Part No	General Description	Specific Description
-	-	-	Weatherseal, Rubber Rear	206-5018
1	1	091-137	Retainer, Aluminum (81"Lg)	6', 6'6", 7' W
2	1	090-076-0640	Rubber Strip (5-1/2"X3/16"Thk) 64"	6' W
2	1	090-076-0700	Rubber Strip (5-1/2"X3/16"Thk) 70"	6'6" W
2	1	090-076-0750	Rubber Strip (5-1/2"X3/16"Thk) 75"	7' W
3	6	011-159	Screw - #12-14 X 3/4"	6' & 6'6" W
3	7	011-159	Screw - #12-14 X 3/4"	7' W

Weatherseals Rear Brush Style

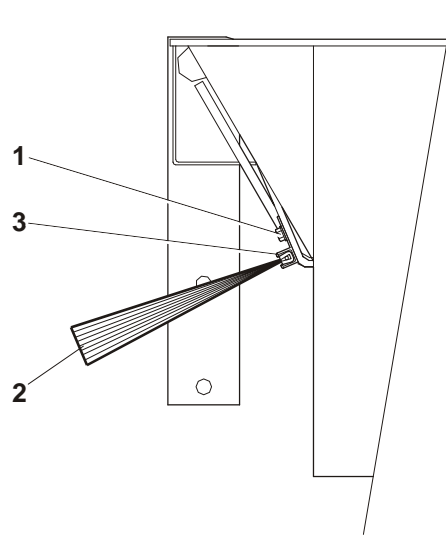


Figure 17 : Rear Brush Style Weatherseal

Item	Qty	Part No	General Description	Specific Description
-	-	-	Weatherseal, Brush Rear	206-5020
1	1	091-187-0640	Retainer,With Large Channel	6' W
1	1	091-187-0070	Retainer,With Large Channel	6'6" W
1	1	091-187	Retainer,With Large Channel	7' W
2	1	091-164-0640	Weatherseal, Brush Style 6"X64"	6' W
2	1	091-164-0700	Weatherseal, Brush Style 6"X70"	6'6" W
2	1	091-164	Weatherseal, Brush Style 6"X73"	7' W
3	6	011-159	Screw, #12-14 X 3/4"	6' & 6'6" W
3	7	011-159	Screw, #12-14 X 3/4"	7' W

17.14 Dock Bumpers

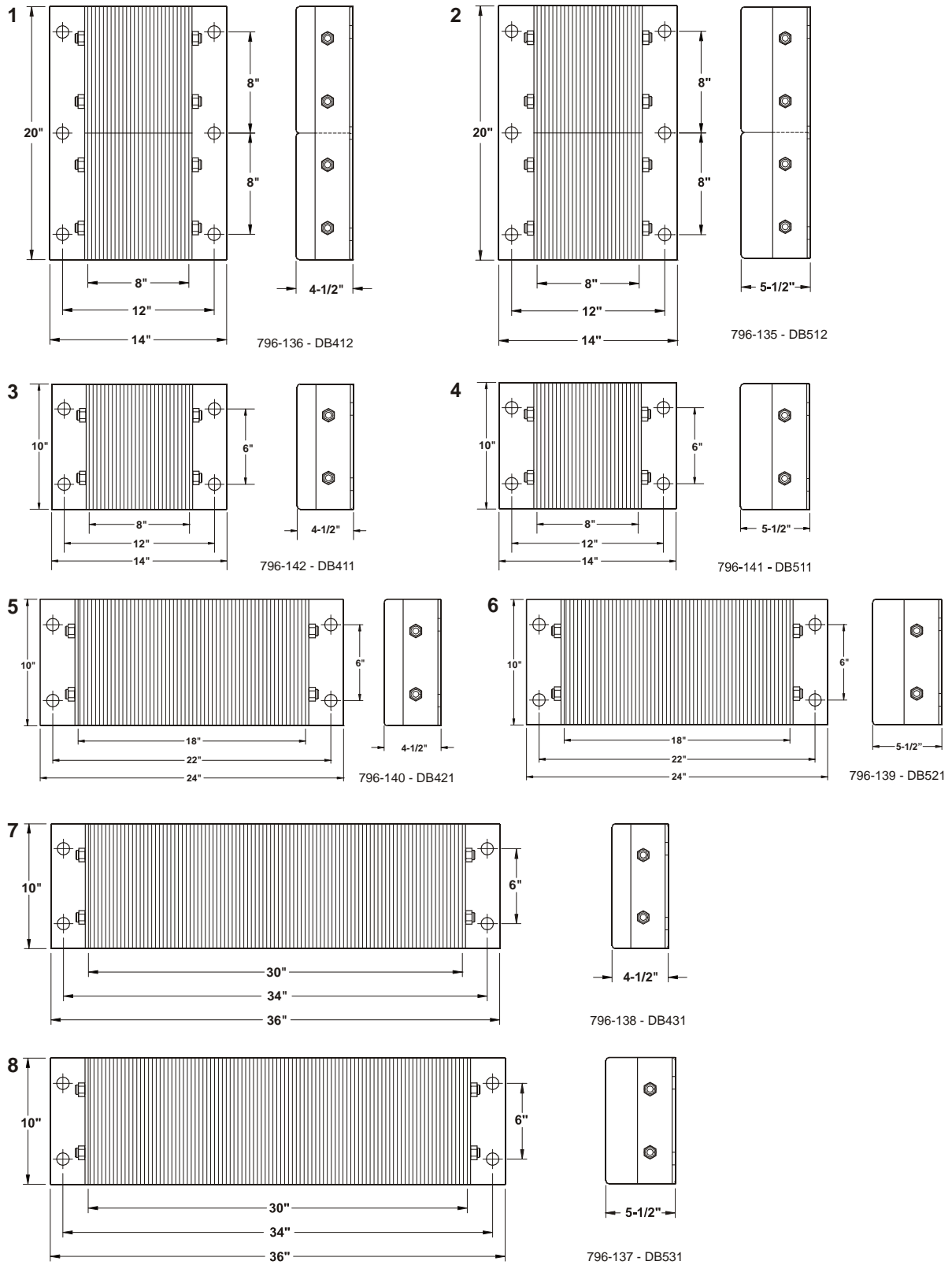


Figure 18 : Dock Bumper Configurations - Laminated

Dock Bumpers - Laminated

Item	Qty	Part No	General Description	Specific Description
1	-	796-136	Laminated Bumper Ass'y - DB412	(20"X14"X4-1/2")
2	-	796-135	Laminated Bumper Ass'y - DB512	(20"X14"X5-1/2")
3	-	796-142	Laminated Bumper Ass'y - DB411	(14"X10"X4-1/2")
4	-	796-141	Laminated Bumper Ass'y - DB511	(14"X10"X5-1/2")
5	-	796-140	Laminated Bumper Ass'y - DB421	(24"X10"X4-1/2")
6	-	796-139	Laminated Bumper Ass'y - DB521	(24"X10"X5-1/2")
7	-	796-138	Laminated Bumper Ass'y - DB431	(36"X10"X4-1/2")
8	-	796-137	Laminated Bumper Ass'y - DB531	(36"X10"X5-1/2")

Dock Bumpers - Molded

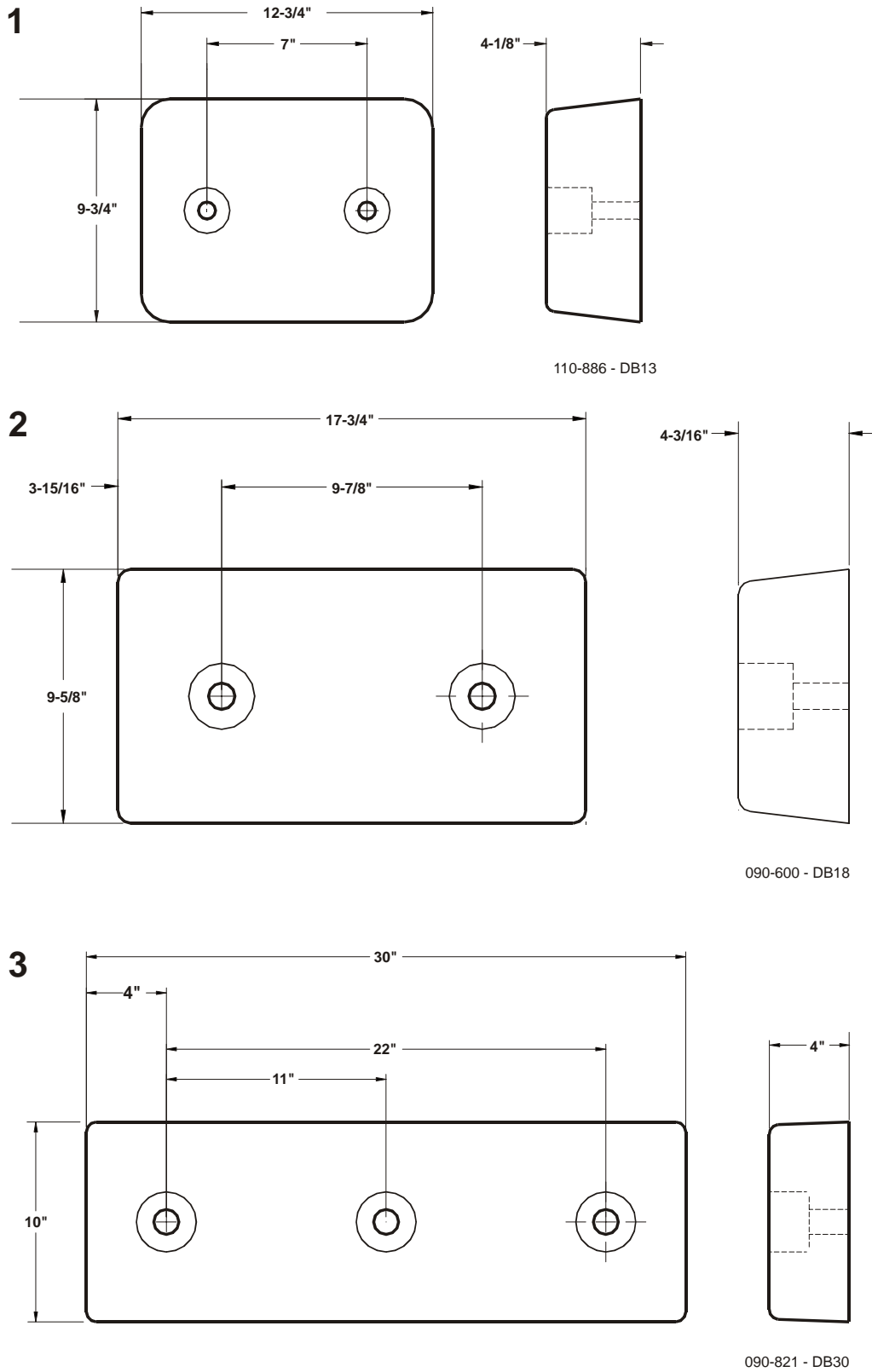


Figure 19 : Dock Bumper Configurations - Molded

Dock Bumpers - Molded

Item	Qty	Part No	General Description	Specific Description
1	-	110-886	Bumper Molded DB-13	10"x13"x4"
2	-	090-600	Bumper Molded DB-18	10"x18"x4"
3	-	090-821	Bumper Molded DB-30	10"x30"x4"
4	-	090-470	Bumper Molded DBL-18 (Not Shown)	18"x18"x4"

18. Service / Maintenance History

Date	Work Performed	Comments / Notes

To Order Parts

For prompt service when ordering parts, please provide the following information to your local distributor.

1. Model and serial number of the equipment.
2. Part number, description and quantity.
3. Shipping instructions.

When in doubt as to part required, provide a sketch or the used part as a sample.

Record Here For Future Reference

Date into Service: _____

Model Number: _____

Serial Number: _____

Distributor: _____

FOR RECOMMENDED SPARE PARTS CONTACT YOUR LOCAL DISTRIBUTOR/DEALER

19. Warranty

Loading Dock Equipment

The Manufacturer's Base Warranty covers the following Product Classes, each of which is covered under additional warranties (if applicable) specific to each class.

Hydraulic Dock Leveler
Mechanical Dock Leveler
Edge-Of-Dock Leveler
Dock Lift and Lift Table
Vehicle Restraint

BASE WARRANTY

The manufacturer warrants to the original purchaser its loading dock equipment to be free from defective material and workmanship under normal use for a period of 1 year (365 days). All warranty coverage is to commence from the date of receipt by the first user or sixty (60) days after date of shipment, whichever comes first. The said equipment must be properly installed, operated and maintained by trained personnel, and must be operated in compliance with the manufacturer's recommendations with regards to rated capacities, duty cycle limitations, grade limitations and/or design specific application(s) agreed upon at the point of sale, in order to be entitled to the benefits of this warranty.

Initial field set up, adjustment, lubrication and other maintenance are not covered under this warranty and are the sole responsibility of the end user. The Warranty Registration Form must be completed in full and returned to the manufacturer within sixty (60) days of receipt in order for the warranty to be deemed valid.

The manufacturer shall remedy any defects deemed covered under this warranty by replacing or repairing any defective equipment or parts while incurring reasonable expenses for all parts, labor and freight unless otherwise stated herein. Freight expenses for shipping repair/replacement parts will be incurred under conditions of standard shipping terms. Any overnight or special freight requirements will be billed to the end user or authorized dealer as recognized by the manufacturer.

Any Original Equipment Manufactured (OEM) part that is replaced during the Base Warranty time period will be either: further covered for the remainder of the Base Warranty time period, or for a further 90 days: whichever is longer.

ADDITIONAL WARRANTY TIME PERIODS:

Parts or components which fail under normal usage and are proven to be defective will be deemed eligible for repair or replacement, (providing no special conditions apply, as stated below) providing the failure occurs within the Additional Warranty Time Period of a given Product Class as stated below. Replacement parts will be supplied F.O.B. factory.

Hydraulic Dock Leveler

Structural - Covered for an additional four (4) years following expiration of the Base Warranty time period.

Components include: Deck, frame, support beams, lip and hinge. Freight is covered under the Base Warranty time period only.

Hydraulics - Covered for an additional one (1) year following expiration of the Base Warranty time period.

Components include: Powerpack, hose and fittings. Freight is covered under the Base Warranty time period only.

Parts and Labor: No Further coverage beyond the Base Warranty time period for any components (including Options) not listed above.

Mechanical Dock Leveler

Structural - Covered for an additional four (4) years following expiration of the Base Warranty time period.

Components include: Deck, frame, support beams, lip and hinge. Freight is covered under the Base Warranty time period only.

Main Lift Springs - Covered for an additional four (4) years following expiration of the Base Warranty time period - Parts only.

Labor and freight are covered under the Base Warranty time period only.

Parts and Labor: No further coverage beyond the Base Warranty time period for any components (including Options) not listed above.

Edge-Of-Dock Leveler

No further coverage beyond expiration of the Base Warranty time period of one (1) year parts, labor and freight.

Dock Lift and Lift Table

Structural - Covered for an additional four (4) years following expiration of the Base Warranty time period.

Components include: Deck, scissor leg and frame assemblies, support beams, lip(s) and hinge(s). Freight is covered under the Base Warranty time period only.

Hydraulics - Covered for an additional one (1) year following expiration of the Base Warranty time period.

Components include: Powerpack, hose and fittings. Freight is covered under the Base Warranty time period only.

Parts and Labor: No further coverage beyond expiration of the Base Warranty time period for any components (including Options) not listed above.

Hydraulic Vehicle Restraint

Structural - Covered for an additional four (4) years, parts only, following expiration of the Base Warranty time period.

Components include: Vehicle restraint body and locking arm (not including pins, bushings or cylinder). Labor and freight are covered under the Base Warranty time period only.

Hydraulics - No further coverage beyond expiration of the Base Warranty time period for any components (including Options) not listed above.

Components include: Powerpack and all parts and components. Labor and freight are covered under the Base Warranty time period only.

Parts and Labor: No further coverage beyond expiration of the Base Warranty time period for any components (including Options) not listed above.

Mechanical Vehicle Restraint

Structural - Covered for an additional four (4) years, parts only, following expiration of the Base Warranty time period.

Components include: Vehicle restraint body and locking arm (not including pins and bushings). Labor and freight are covered under the Base Warranty time period only.

Parts and Labor: No further coverage beyond expiration of the Base Warranty time period for any components (including Options) not listed above.

WARRANTY IS VOID IF:

- 1) Warranty Registration Form is not completed and returned to the manufacturer within sixty (60) days of receipt.
- 2) The original purchaser does not notify the manufacturer of the defect within ninety (90) days after the defect has been detected.
- 3) Equipment is modified in any manner not approved by the manufacturer.
- 4) Equipment has been operated:
 - beyond its rated capacity,
 - in excess of its determined duty cycle,
 - or operated in excess of its determined maximum grade,
 - or combination of the above therein, which can directly be attributed to be the cause of failure.
- 5) Equipment is used in abrasive or corrosive conditions, or conditions of excessive cold or moisture without having been factory specified to be engineered to withstand such conditions.

THE FOLLOWING ARE NOT COVERED UNDER WARRANTY:

- 1) Adjustments, including initial field set-up. Adjustments are considered part of normal maintenance procedures.
- 2) Repairs required as a result of:
 - Failure to follow maintenance and/or lubrication procedures specified in the owner's manual.
 - Abuse, willful damage, accident, or neglect.
 - Shipping damage. (Claim must be made with the freight carrier.)

THE MANUFACTURER DOES NOT ASSUME RESPONSIBILITY OR LIABILITY FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES, OR FOR LOSS OF PROFIT OR DAMAGE TO TRADE OR BUSINESS WHICH RESULTS FROM THE EQUIPMENT.

THE ABOVE WARRANTIES ARE IN LIEU OF ANY OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION CONTAINED HEREIN.

For Service Parts, Contact your local Dealer/Distributor



85 Heart Lake Road South,
Brampton, Ontario Canada L6W 3K2
Tel 800 668 7078 Fax 888 378 5781
www.BlueGiant.com

B L U E G I A N T E Q U I P M E N T C O R P O R A T I O N

BLUE GIANT offers a full line of Dock Levelers, Dock Safety Equipment, Accessories, Ergonomic and Scissor Lift Equipment, and Industrial Trucks. Concurrent with our continuing product improvement program, specifications are subject to change without notice. Please contact BLUE GIANT for latest information. Some features illustrated may be optional in certain market areas.

If calling from outside North America: Tel 905 457 3900 Fax 905 457 2313

Warning: This manual may not be copied, quoted or transferred in any form or medium to any individual or company, in whole or in part without written consent from Blue Giant.

Issue Date: 03/28/06 (Part #411-259)