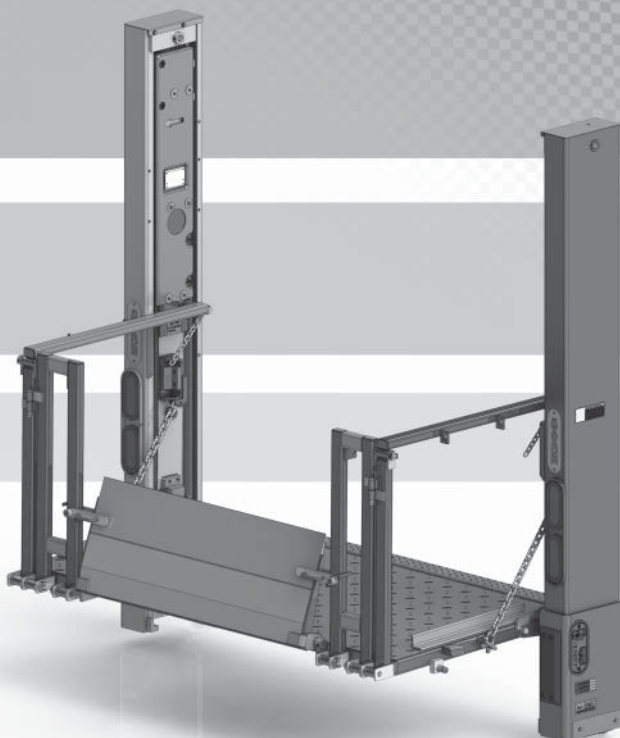


M-14-22
JULY 2015

Operation Manual Contains:

- Warnings
- Decal & Plate Locations
- Standard Control Locations
- Liftgate & Retention Ramp Operation



MAXON[®]
LIFT CORP.

To find **maintenance & parts** information for your **BMR-CS Liftgate**, go to www.maxonlift.com. Click the **PRODUCTS**, **COLUMNLIFT** & **BMR-CS** buttons. Open the **Maintenance Manual** in the **PRODUCT DOCUMENTATION** window.

© MAXON Lift Corp. 2015

BMR-CS

OPERATION MANUAL

KEEP THIS MANUAL IN CAB OF VEHICLE

Register your liftgate on line at www.maxonlift.com/html/services/reg.htm.
For a free copy of other manuals that pertain to this model liftgate, please visit our website at www.maxonlift.com or customer service at (800) 227-4116.

TABLE OF CONTENTS

WARNINGS	5
DECALS & PLATES	6
STANDARD CONTROL LOCATIONS	8
POWER DOWN CONTROLS (IF EQUIPPED)	9
PUMP BOX CONTROLS	10
FORKLIFT ADVISORY	11
LOADING VEHICLE	12
OPENING THE PLATFORM	12
LOWERING THE PLATFORM	12
OPENING THE RETENTION RAMP - STEEL PLATFORM	13
OPENING THE RETENTION RAMP - ALUMINIUM PLATFORM	14
POSITIONING LOAD	15
RAISING & UNLOADING PLATFORM - STEEL	16
UNLOADING VEHICLE	18
OPENING THE PLATFORM	18
LOWERING THE PLATFORM	18
RAISING THE PLATFORM	19
POSITIONING LOAD	20
LOWERING & UNLOADING PLATFORM	21
STOWING PLATFORM	23

STOW RETENTION RAMP23

STOW PLATFORM24

DOCK LOADING & UNLOADING26

LOWER PLATFORM BELOW DOCK LEVEL.....26

WARNING

1. Incorrect operation of this Liftgate can result in serious personal injury. Comply with **WARNINGS** and Liftgate operating instructions in this manual. Do not allow untrained persons or children to operate the Liftgate. If you need to replace an **Operation Manual**, additional copies are available from:

MAXON Lift Corp. Customer Service
11921 Slauson Ave
Santa Fe Springs, CA 90670
(800) 227-4116

2. Do not exceed rated **load capacity** of the Liftgates which is **3500 lbs. for model BMR-CS3500, and 4400 lbs. for model BMR-CS44.**
3. Do not allow any part of your body to be placed under, within, or around any portion of the moving Liftgate or its mechanisms, or in a position that would trap them between the platform and the floor of truck body (or between platform and the ground) when Liftgate is operated.
4. Consider the safety and location of bystanders and location of nearby objects when operating the Liftgate. Stand to one side of platform while operating the Liftgate. Be certain that the area the Liftgate will move through during operation is clear of all obstacles.
5. Comply with all attached instruction decals and warning decals.
6. Keep decals clean and legible. If decals are illegible or missing, have them replaced. **Get free replacement decals from Maxon.**
7. **Never drive a forklift on the Liftgate platform.**
8. Do not move vehicle unless Liftgate is correctly stowed.
9. **Correctly stow platform when not in use. Extended platforms could create a hazard for people and vehicles passing by.**
10. A correctly installed Liftgate will operate smoothly and reasonably quiet. The only noticeable noise, during Liftgate operation, is from the power unit while the platform is being unfolded, lowered (power down only), raised, or folded. Listen for scraping, grating and binding noises and have the problem corrected before continuing to operate the Liftgate.
11. Above all, **USE GOOD COMMON SENSE** when operating this Liftgate.
12. Never use a cell phone while operating the Liftgate.

DECALS & PLATES

NOTE: Ensure there is no residue, dirt, or corrosion where decals are attached. If necessary, clean surface before attaching decals.

NOTE: Preferred decal layout is shown. Decals on the Liftgate are attached at the factory. If vehicle does not permit this layout, decals in the manual and decal kit must be applied so that they are easily visible when approaching vehicle to operate Liftgate. Use good common sense when locating these decals on vehicle.

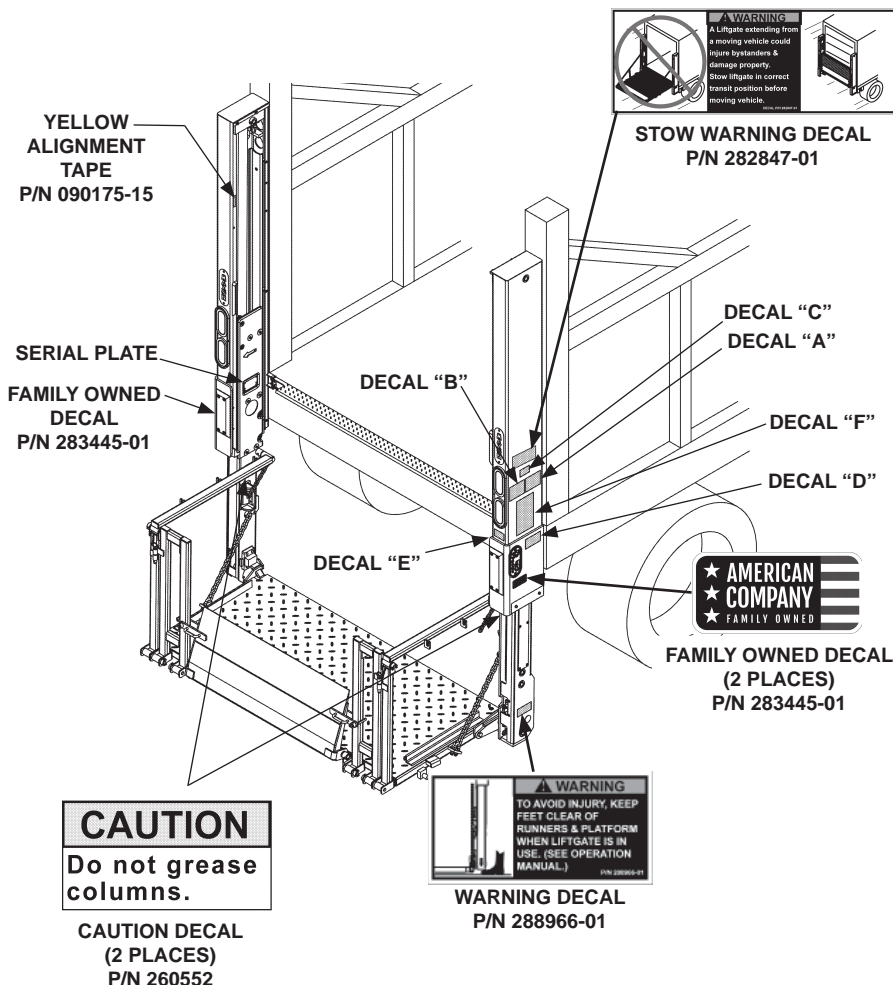


FIG. 6-1

⚠ WARNING

Read this information carefully.

- Improper operation of this Liftgate can result in serious personal injury. If you do not have a copy of the operating instructions, please obtain them from your employer, distributor, or lessor before you attempt to operate Liftgate.
- If there are signs of improper maintenance, damage to vital parts, or slippery platform surface, do not use the Liftgate until these problems have been corrected.
- If you are using a pallet jack, be sure it can be maneuvered safely.
- Do not operate a forklift on the platform.
- Do not allow any part of yours or your helper's body to be placed under, within, or around any portion of the moving Liftgate, or its mechanisms, or in a position that would trap them between the platform and the ground or truck when the Liftgate is operated.
- If a helper is riding the platform with you, make sure you are both doing so safely and that you are not in danger of coming in contact with any moving or potentially moving obstacles.
- **USE GOOD COMMON SENSE**
- If load appears to be unsafe, do not lift or lower it.

For a free copy of other manuals that pertain to this model Liftgate, please visit our website at www.maxonlift.com or call Customer Service at (800) 227-4116.

B

⚠ WARNING

Liftgate hazards can result in crushing or falling.

Keep hands and feet clear of pinch points.

If riding liftgate, make sure load is stable and footing is solid.

D

Read and understand all instructions and WARNINGS before use.

SAFETY INSTRUCTIONS

Read all decals and operation manual before operating liftgate.

1. Do not use liftgate unless you have been properly instructed and have read, and are familiar with, the operating instructions.
2. Be certain vehicle is properly and securely braked before using the liftgate.
3. Always inspect this liftgate for maintenance or damage before using it. Do not use liftgate if it shows any sign of damage or improper maintenance.
4. Do not overload.
5. Make certain the area in which the platform will open and close is clear before opening or closing the platform.
6. Make certain platform area, including the area in which loads may fall from platform, is clear before and at all times during operation of liftgate.
7. This liftgate is intended for loading and unloading of cargo only. Do not use this liftgate for anything but its intended use.

A

THE MAXIMUM CAPACITY OF THIS LIFT IS

___ LB [___ KG]

WHEN THE LOAD IS CENTERED ON THE LOAD CARRYING PLATFORM

C

(REFER TO TABLE 7-1)

⚠ CAUTION

Always stand clear of platform area.

E

OPERATING INSTRUCTIONS

OPERATE	STOW
<p>1 LOWER RUNNERS TO LINE UP YELLOW ARROW WITH YELLOW STRIPE. THIS SHOWS PLATFORM IS CLEAR TO UNFOLD.</p>	<p>1 RAISE PLATFORM TO LINE UP YELLOW ARROW WITH YELLOW STRIPE. THIS SHOWS PLATFORM IS CLEAR TO FOLD.</p>
<p>2 UNFOLD PLATFORM.</p>	<p>2 FOLD PLATFORM.</p>
<p>3 1 - LOWER PLATFORM. IF IT IS SLOW TO LOWER & LIFTGATE IS POWER DOWN EQUIPPED, PUSH POWER DOWN BUTTON. 2 - RAISE PLATFORM. POWER DOWN BUTTON (IF EQUIPPED)</p>	<p>3 RAISE RUNNERS TO STOW PLATFORM.</p>

P/N 289163-01 F

DECAL SHEET
FIG. 7-1

MODEL	ORDER P/N	DECAL "C"
BMR-35-CS	289163-01	3500 LBS. [1600 KG]
BMR-44-CS	289163-02	4400 LBS. [2000 KG]

DECAL SHEET PART NUMBERS
TABLE 7-1

STANDARD CONTROL LOCATIONS

GROUND ACCESS - COLUMN SWITCH

Toggle switches on column switch (**FIG. 8-1A**) let operator raise (**UP**), lower (**DOWN**), **FOLD**, and **UNFOLD** the platform (**FIG. 8-1**) while standing on the ground.

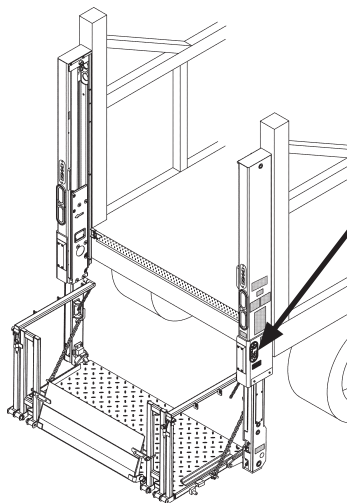


FIG. 8-1

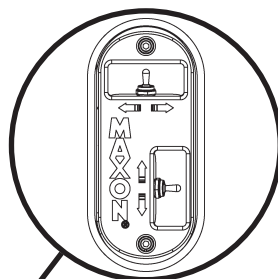


FIG. 8-1A

PLATFORM ACCESS - RUNNER SWITCH

Toggle switch (**FIG. 8-2A**) on RH runner lets operator raise (**UP**) and lower (**DOWN**) the platform (**FIG. 8-2**) only. Switch stays within reach when operator rides platform **UP** and **DOWN**.

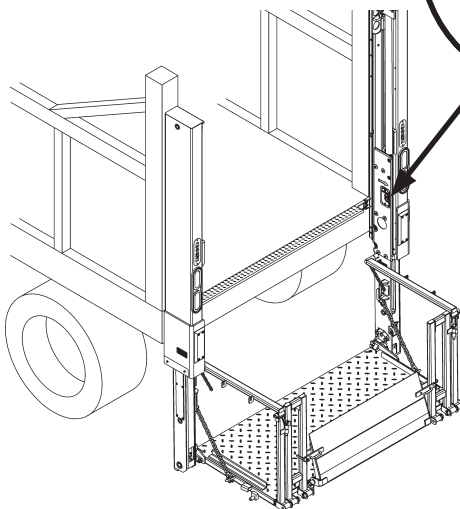


FIG. 8-2

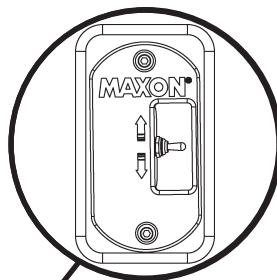


FIG. 8-2A

POWER DOWN CONTROLS (IF EQUIPPED)

GROUND ACCESS - COLUMN SWITCH

POWER DOWN button (if equipped) on column switch (FIG. 9-1A) lets operator lower platform by pressing the **POWER DOWN** button once and pushing and holding the toggle switch (**DOWN**) (FIG. 9-1), while standing on the ground.

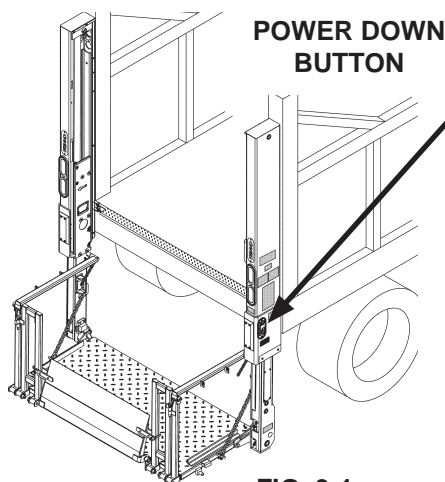


FIG. 9-1

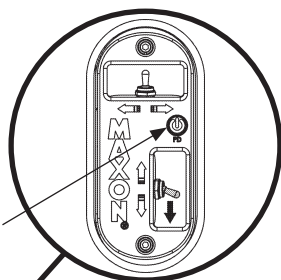


FIG. 9-1A

PLATFORM ACCESS - RUNNER SWITCH

POWER DOWN button (if equipped) on runner switch (FIG. 9-2A) lets operator lower platform by pressing the **POWER DOWN** button once and pushing and holding the toggle switch (**DOWN**) (FIG. 9-2), while standing on the platform.

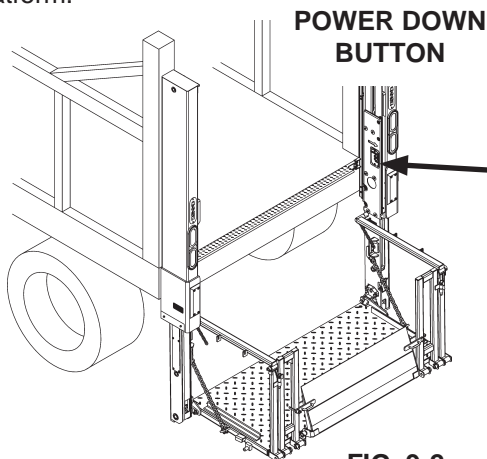


FIG. 9-2

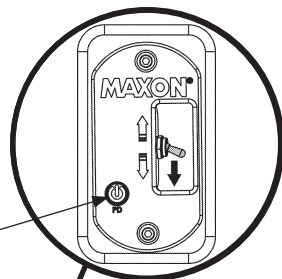
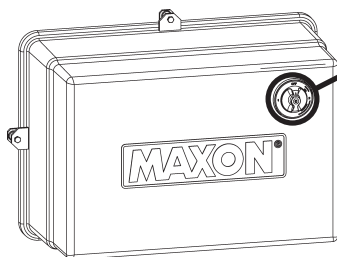


FIG. 9-2A

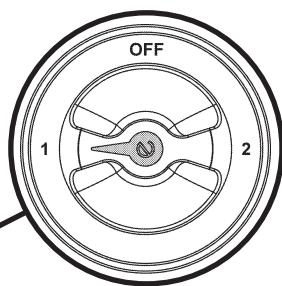
PUMP BOX CONTROLS

MASTER SELECT SWITCH

The master select switch (**FIGS. 10-1B, 10-2B and 10-2C**) applies or removes battery power from the pump(s). For a single pump box (**FIGS. 10-1A and 10-1B**), turn the **MASTER SELECT SWITCH** to 1 to operate Liftgate.

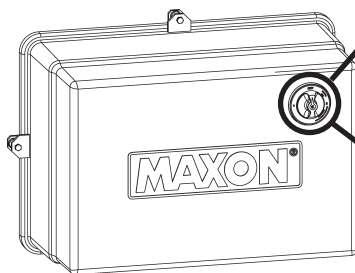


SINGLE PUMP BOX
FIG. 10-1A

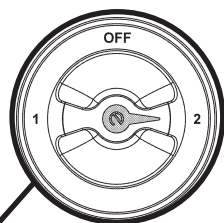


MASTER SELECT SWITCH
(PUMP 1 SELECTED)
FIG. 10-1B

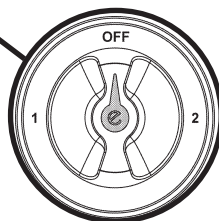
If the Liftgate is equipped with a dual pump box (**FIG. 10-2A**), the **MASTER SELECT SWITCH (FIG. 10-2B)** can be used to connect battery power to either **PUMP 1** or **PUMP 2** to power Liftgate. To remove battery power from **PUMPS 1** and **2**, turn switch **OFF (FIG. 10-2C)**,



DUAL PUMP BOX
FIG. 10-2A



MASTER SELECT SWITCH
(PUMP 2 SELECTED)
FIG. 10-2B



MASTER SELECT SWITCH
(OFF)
FIG. 10-2C

FORKLIFT ADVISORY

⚠ WARNING
Keep forklift OFF of platform.

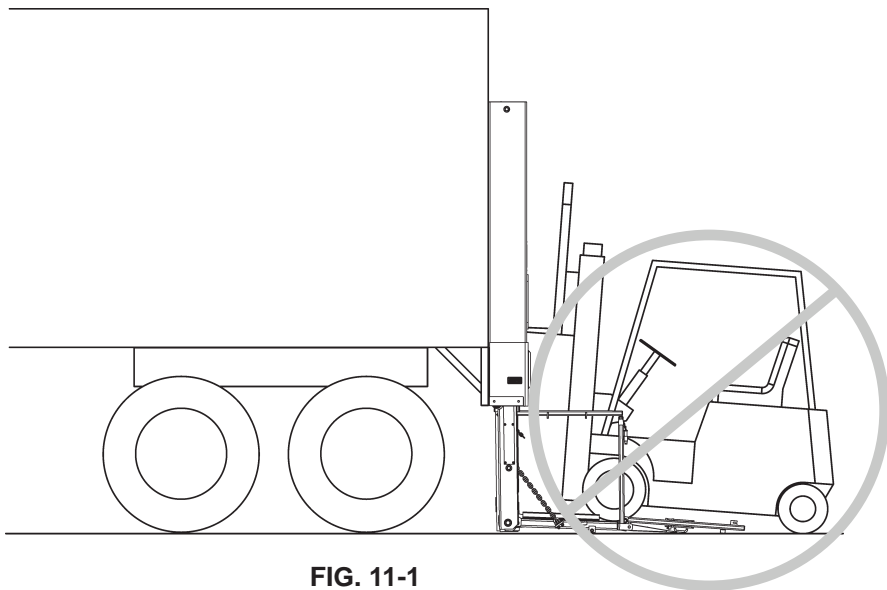


FIG. 11-1

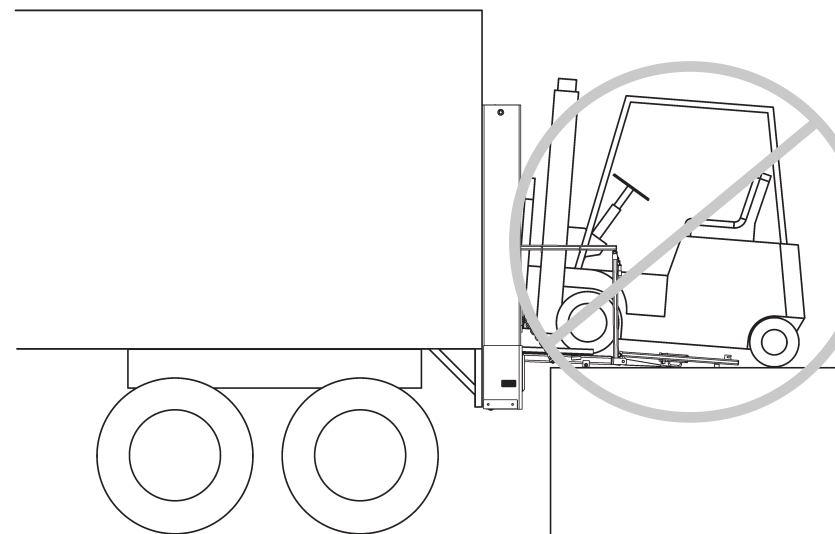
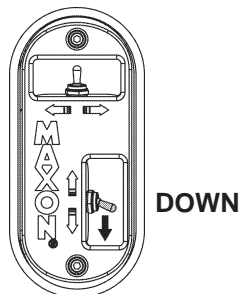


FIG. 11-2

LOADING VEHICLE OPENING THE PLATFORM

NOTE: The 2 platform flashing lights are flashing when platform is unfolding and unfolded. The lights stop flashing when the platform is folded/stowed.

Push toggle switch to **DOWN** position (**FIG. 12-1**) to lower platform until runner arrow and yellow tape are about even (**FIG. 12-2A**). Platform will be released from the locking wedges on the Liftgate column. Next, use column switches 1 and 2 to **UNFOLD** platform (**FIG. 12-2**). Hold both toggle switches until platform reaches the unfolded (horizontal) position and then release the switches.



COLUMN SWITCH
FIG. 12-1

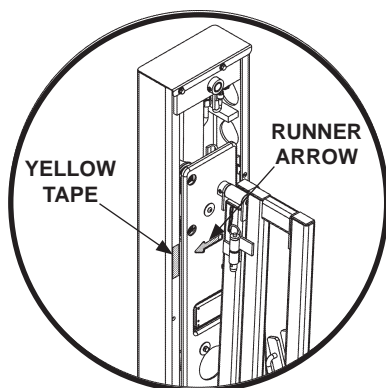


FIG. 12-2A

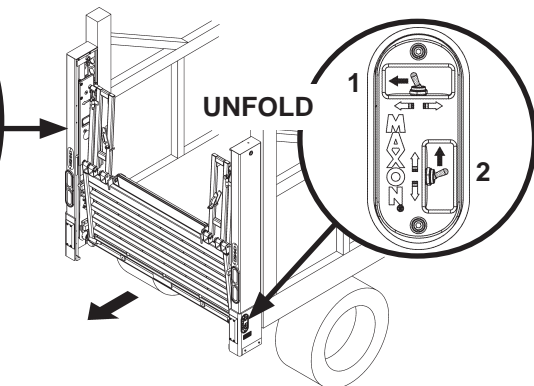


FIG. 12-2

LOWERING THE PLATFORM

To lower platform to the ground, use column switch as shown in **FIG. 12-3**. Release toggle switch when platform reaches the ground.

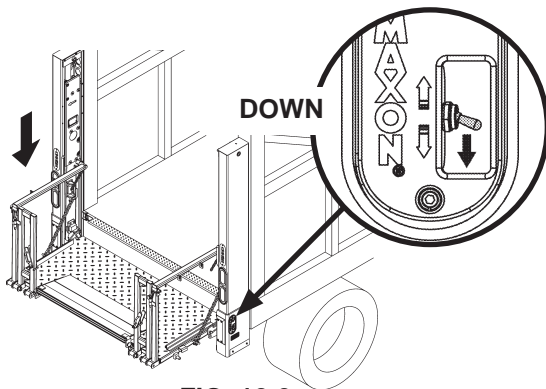


FIG. 12-3

OPENING THE RETENTION RAMP - STEEL PLATFORM

To release retention ramp, rotate locks in direction of arrows (**FIG. 13-1**) and unfold ramp to the ground (**FIG. 13-2**).

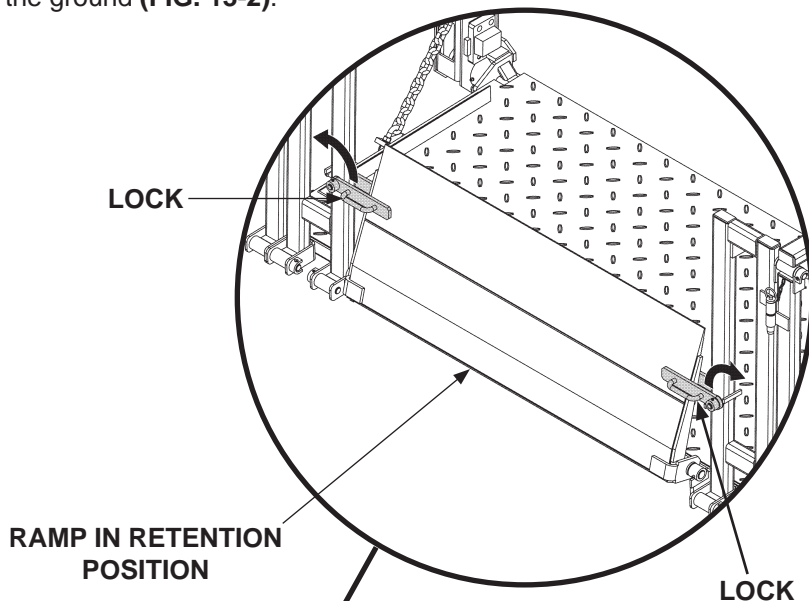


FIG. 13-1

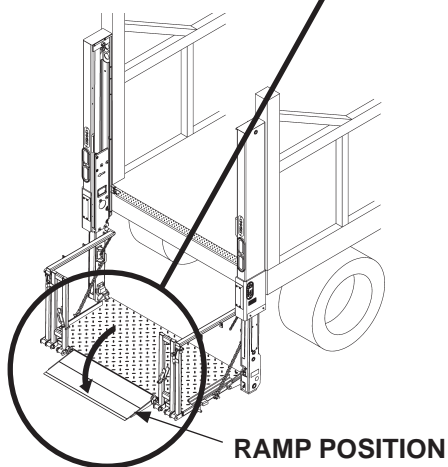


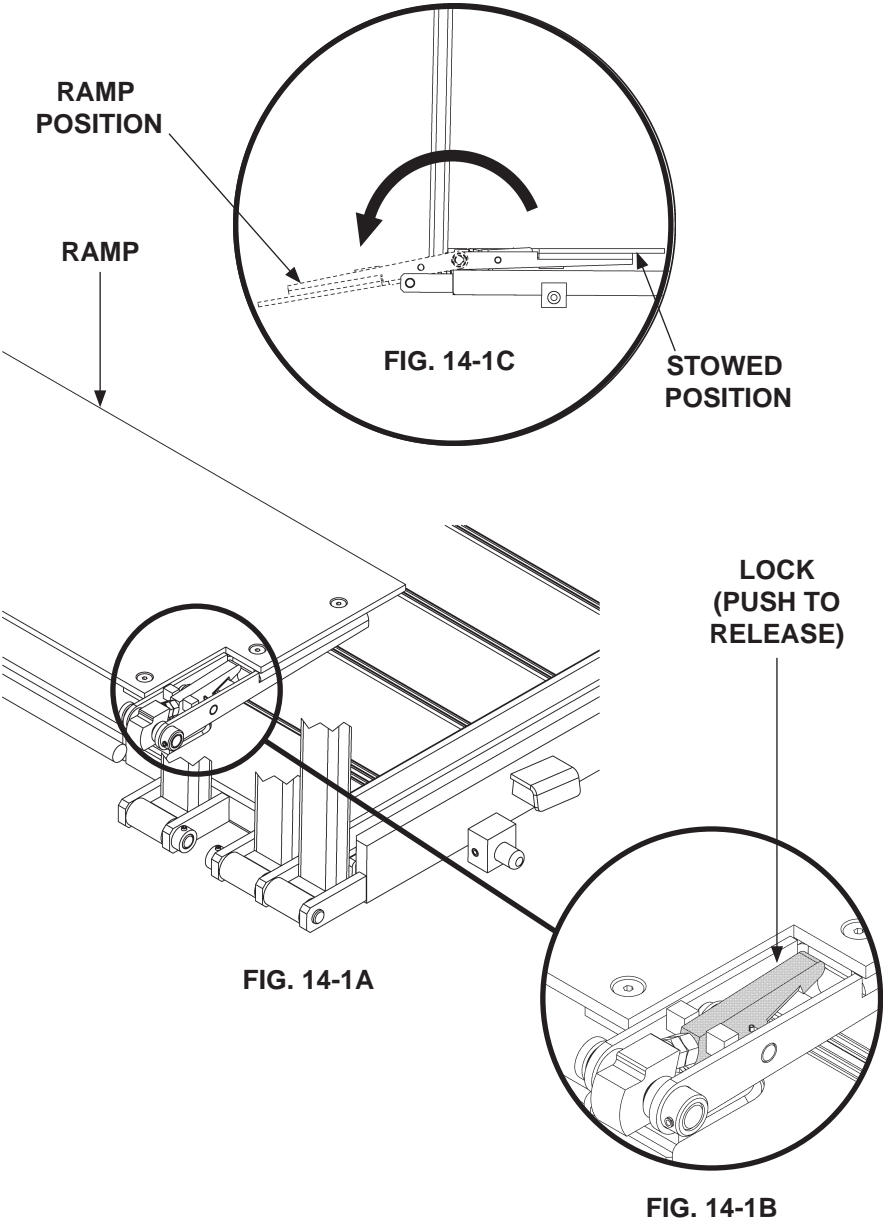
FIG. 13-2

LOADING VEHICLE - Continued

OPENING THE RETENTION RAMP -

ALUMINIUM PLATFORM

To unfold retention ramp, first push down on retention ramp (**FIG. 14-1A**) to release tension on lock. Next, push down on lock mechanism (**FIG. 14-1B**) and lift the retention ramp until it is in the ramp position (**FIG. 14-1C**).



POSITIONING LOAD

WARNING

A load should never extend past the edges of the platform. Do not place unstable loads on platform and do not allow load to exceed lifting capacity of Liftgate. If standing on platform, do not allow your feet to extend beyond inboard edge of platform.

1. Place all loads as close as possible to the inboard edge of the platform with heaviest part toward the truck body as shown in **FIG. 15-1**.
2. Move loads across the ramp (**FIG. 15-1**) to the platform, but never rest or raise loads on the ramp. Make sure gas bottles rest against platform railing (**FIG. 15-1A**) and angle support (**FIG. 15-1B**).
3. Wrap chain around each gas bottle and hook onto platform railing as shown in **FIG. 15-1B**. If standing on platform with the load, stand in the footprint area shown (**FIG. 15-1**) and comply with the preceding **WARNING**.

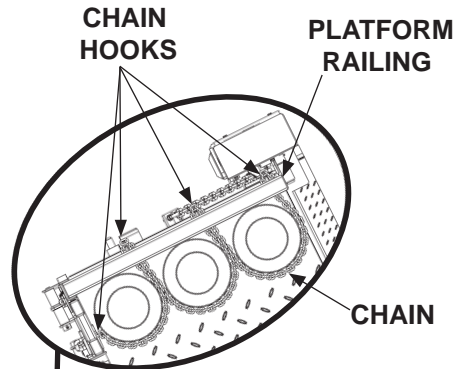


FIG. 15-1A

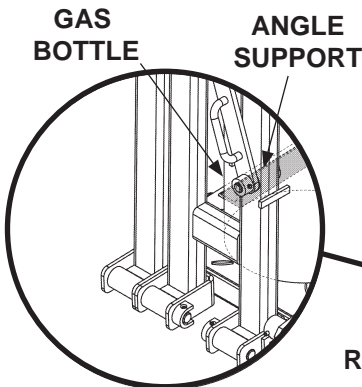
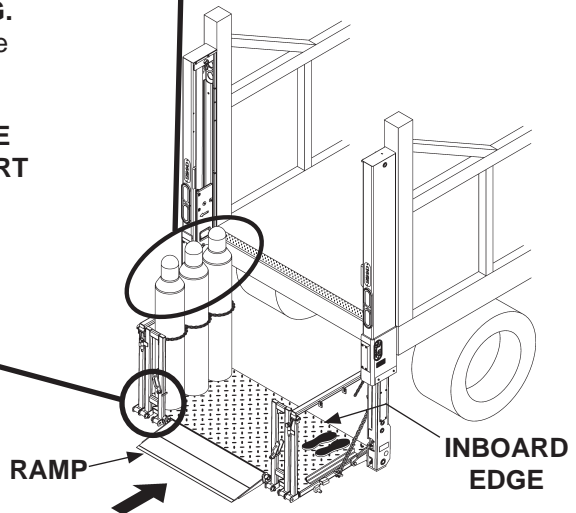


FIG. 15-1B



LOADING PLATFORM AT GROUND LEVEL

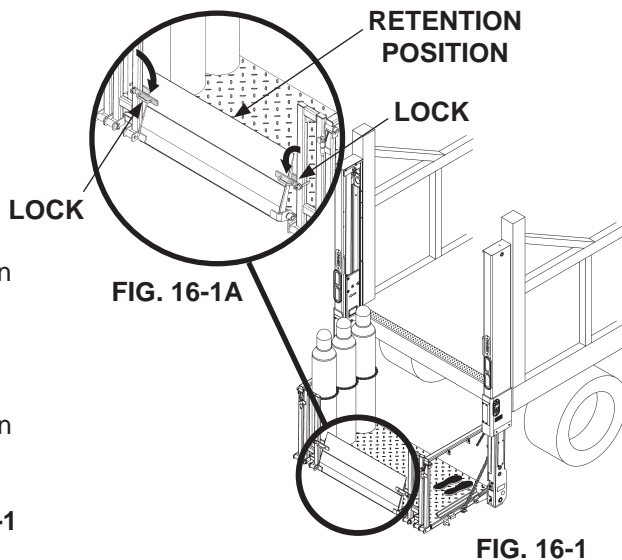
FIG. 15-1

LOADING VEHICLE - Continued

RAISING & UNLOADING PLATFORM

CAUTION

A ramp in retention position can trip you when stepping over it. To prevent possible injury, get on the platform before putting the ramp in retention position.



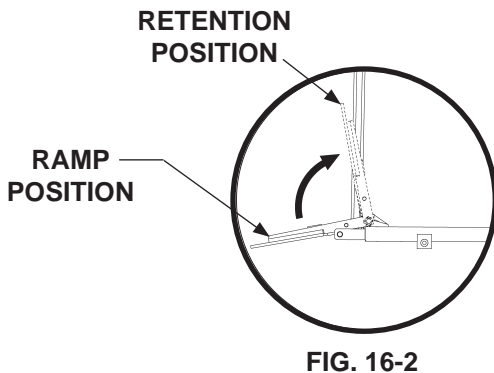
1. Fold ramp to retention position as follows:

STEEL PLATFORM

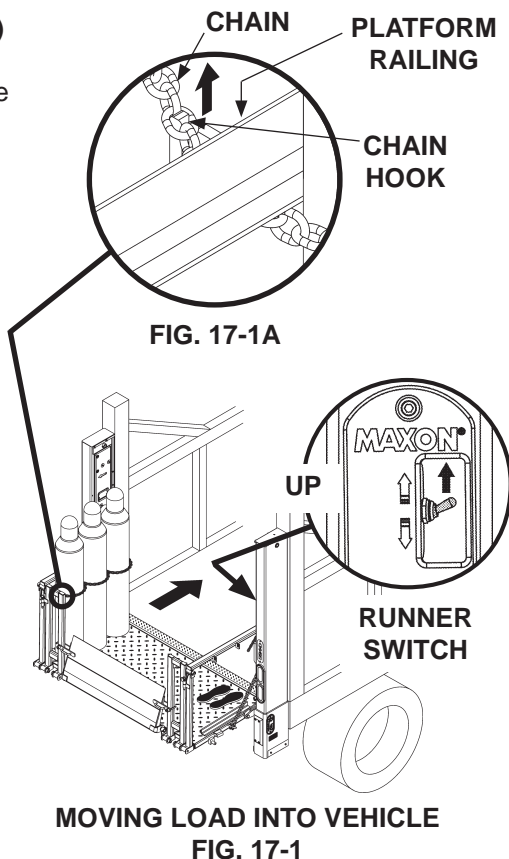
Fold ramp to retention position and rotate locks to secure ramp in position (**FIGS. 16-1 & 16-1A**).

ALUMINUM PLATFORM

Fold ramp until it locks in retention position (**FIG. 16-2**).



2. Use runner switch to raise (**UP**) platform from ground level to bed height (**FIG. 17-1**). Release switch when platform reaches bed height.
3. Unhook chain from platform railing as shown in **FIG. 17-1A**. Carefully move the load into vehicle (**FIG. 17-1**).



4. Use runner switch to lower the platform to ground level (**FIG. 17-2**).
5. If there are more loads to put in vehicle, repeat the previous **LOADING VEHICLE** steps for each load. When loading is finished, use **STOWING PLATFORM** procedure in this manual.

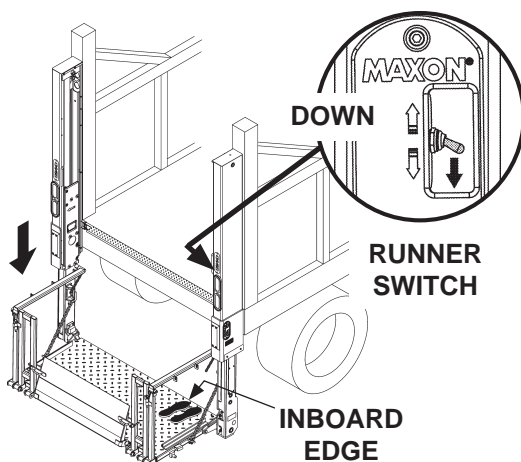
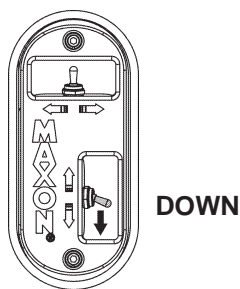


FIG. 17-2

UNLOADING VEHICLE OPENING THE PLATFORM

Push column **UP/DOWN** toggle switch to **DOWN** position (**FIG. 18-1**) to lower platform (**FIG. 18-2A**) until runner arrow and column decal are about even (**FIG. 18-2B**). Platform will be released from the locking wedges on the Liftgate column. Next, use column switches **1** and **2** to **UNFOLD** platform (**FIG. 18-2A**). Hold both toggle switches until platform reaches the unfolded (horizontal) position and then release the switches.



COLUMN SWITCH
FIG. 18-1

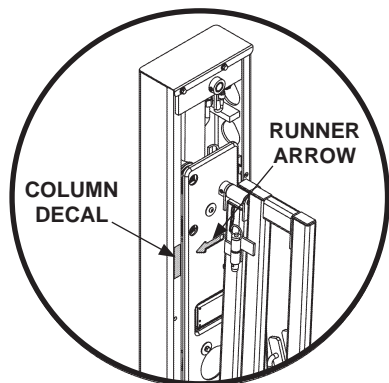


FIG. 18-2B

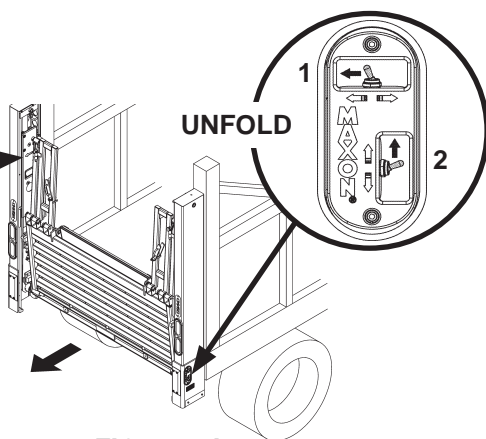
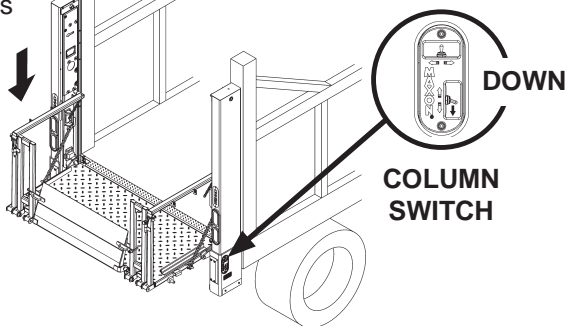


FIG. 18-2A

LOWERING THE PLATFORM

To lower platform to the ground, use column switch as shown in **FIG. 18-3**. Release toggle switch when platform reaches the ground.



COLUMN SWITCH

FIG. 18-3

RAISING THE PLATFORM

Use runner switch to raise platform
(FIG. 19-1) from ground level to
bed height. Release switch when
platform reaches bed height.

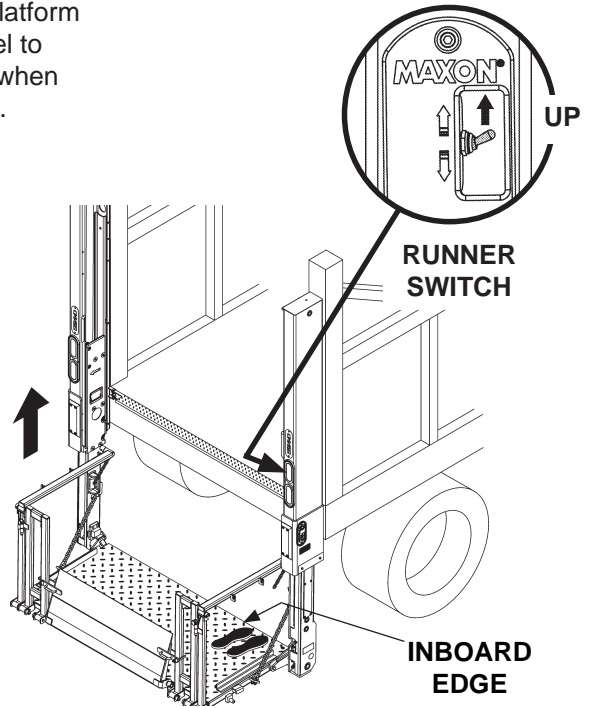


FIG. 19-1

UNLOADING VEHICLE - Continued POSITIONING LOAD

WARNING

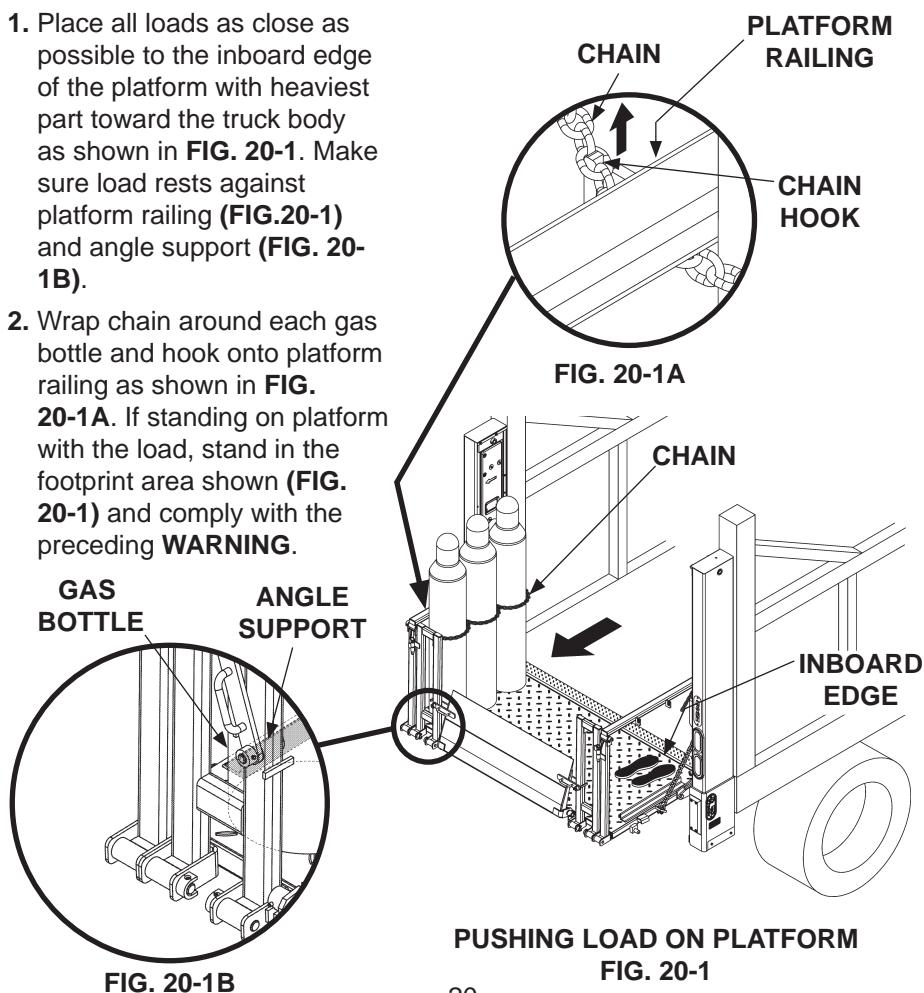
A load should never extend past the edges of the platform. Do not place unstable loads on platform and do not allow load to exceed lifting capacity of Liftgate. Load must not exceed maximum of 3 cylinders on each side of platform within the rated Liftgate capacity. If standing on platform, do not allow your feet to extend beyond inboard edge of platform.

WARNING

Pulling the load from vehicle to platform can result in a fall from platform and serious injury. When unloading vehicle, always push the load out on the platform.

1. Place all loads as close as possible to the inboard edge of the platform with heaviest part toward the truck body as shown in **FIG. 20-1**. Make sure load rests against platform railing (**FIG. 20-1**) and angle support (**FIG. 20-1B**).

2. Wrap chain around each gas bottle and hook onto platform railing as shown in **FIG. 20-1A**. If standing on platform with the load, stand in the footprint area shown (**FIG. 20-1**) and comply with the preceding **WARNING**.



LOWERING & UNLOADING PLATFORM

WARNING

Before lowering platform, make sure area surrounding platform is clear of people and objects. If standing on platform, do not allow your feet to extend beyond inboard edge of platform.

1. Use runner switch to lower platform to the ground (**FIG. 21-1**). Release switch when platform reaches ground level.

2. Unfold retention ramp to ramp position as follows:

STEEL PLATFORM

Rotate locks (**FIG. 21-1A**) to release retention ramp. Unfold ramp to ramp position (**FIG. 21-1A**).

ALUMINUM PLATFORM

Push down on lock mechanism and lower retention ramp to the ramp position (**FIG. 21-2**).

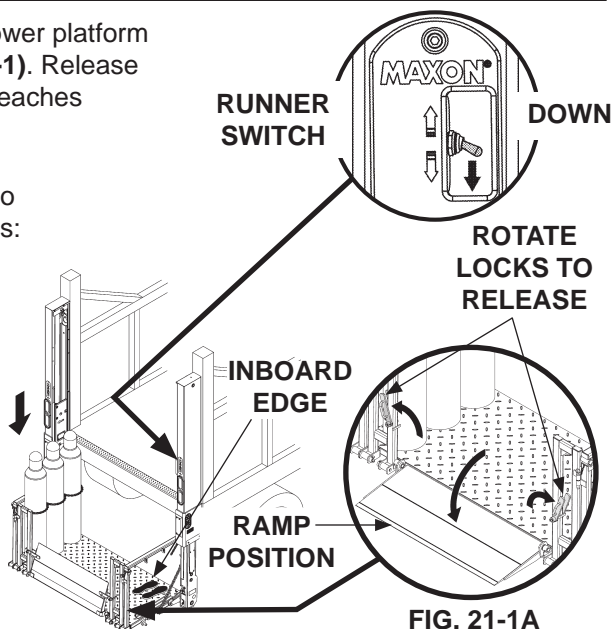


FIG. 21-1

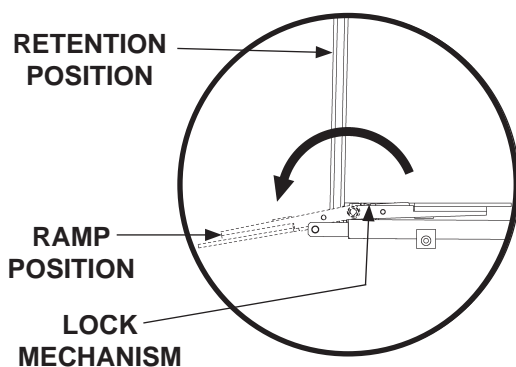
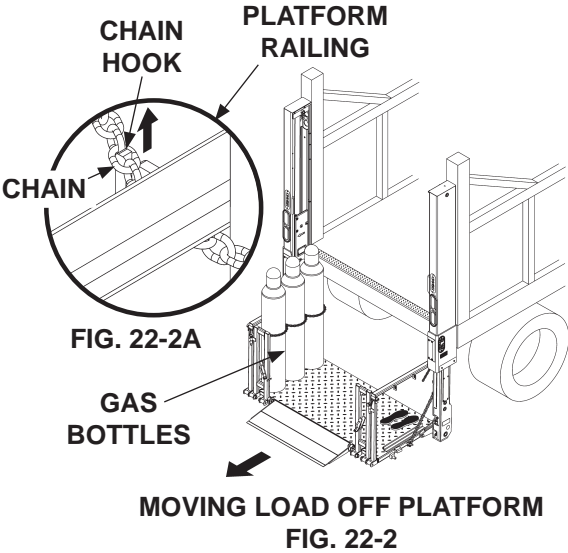


FIG. 21-2

LOWERING & UNLOADING PLATFORM - Continued

3. Unhook chain from platform railing (FIG. 22-2A).

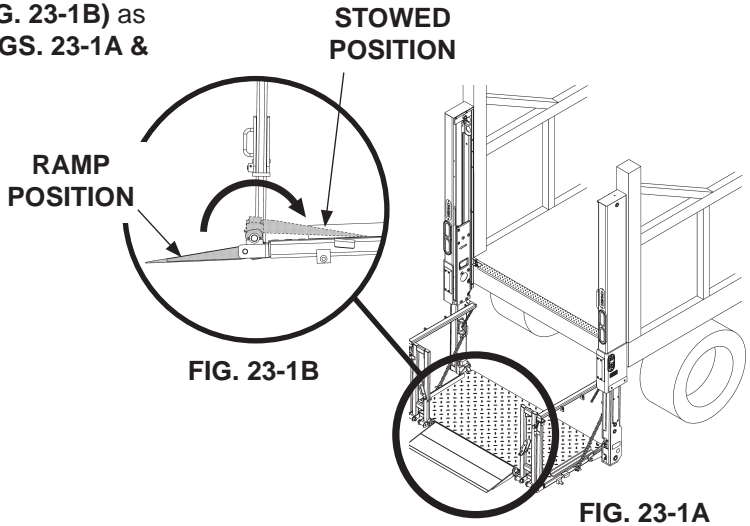
4. Carefully move load off platform (FIG. 22-2) and then move it to a place where it will not become a hazard for people and other vehicles. If there is more to unload from vehicle, repeat the previous **UNLOADING VEHICLE** steps for each load. When unloading is finished, use **STOWING PLATFORM** procedure in this manual.



STOWING PLATFORM STOW RETENTION RAMP

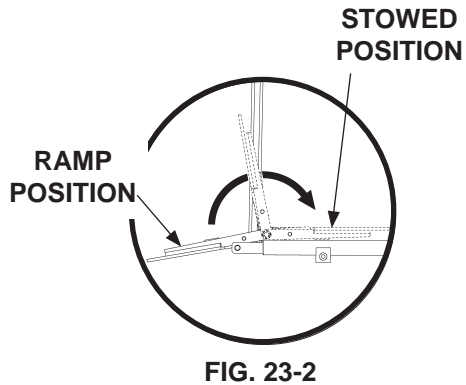
STEEL PLATFORM

Fold ramp to stowed position (**FIG. 23-1B**) as shown in **FIGS. 23-1A & 23-1B**.



ALUMINUM PLATFORM

Push ramp to stowed position until it locks, as shown in **FIG. 23-2**.



STOWING PLATFORM - Continued

STOW PLATFORM

CAUTION

Platform and bottom stops could be damaged if platform is folded with heel below the column bottom stops. Bottom stops will interfere with folded platform being raised to up position. Prevent damage by aligning arrow decals on column & runner before folding platform. Then, platform heel will be above the bottom stops.

1. Use the column switch to raise (**UP**) platform (**FIG. 24-1A**) until runner arrow and column decal on LH column are aligned (**FIG. 24-1B**).

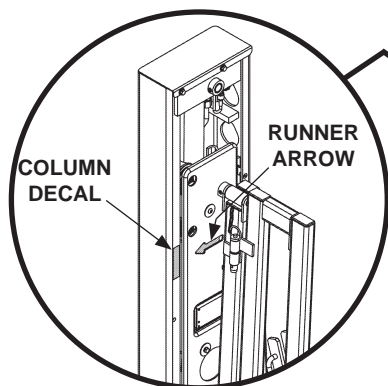


FIG. 24-1B

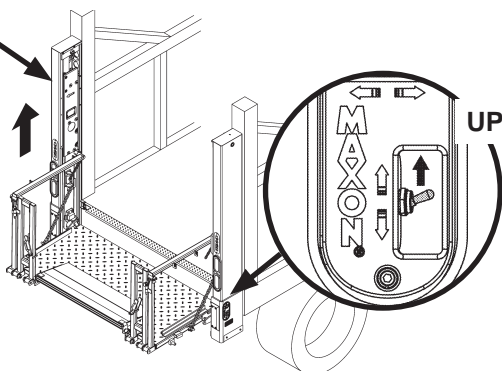


FIG. 24-1A

NOTE: The 2 platform flashing lights are flashing when platform is unfolding and unfolded. The lights stop flashing when the platform is folded/stowed.

2. Hold both column switches **1** and **2** to **FOLD** platform (**FIG. 24-2**).

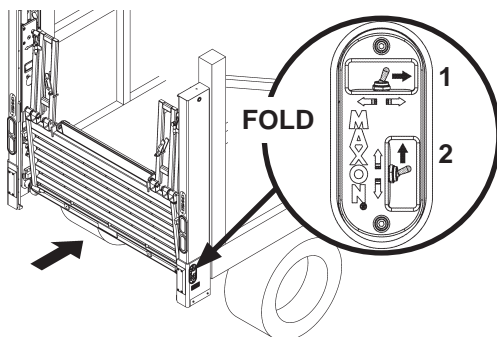
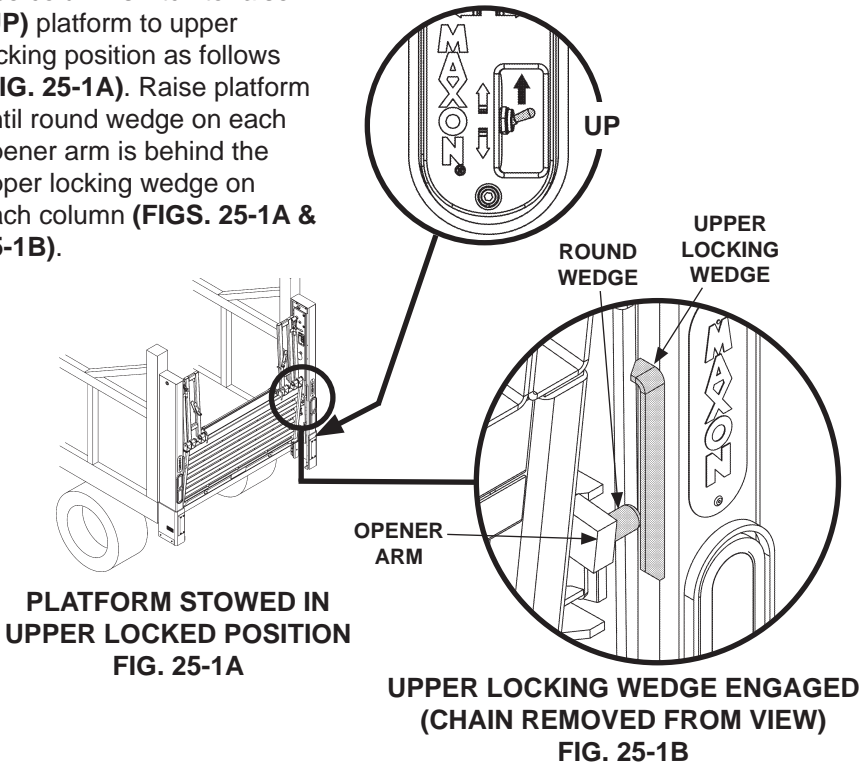


FIG. 24-2

WARNING

Upper locking wedges must be engaged before moving vehicle.

3. Use column switch to raise **(UP)** platform to upper locking position as follows **(FIG. 25-1A)**. Raise platform until round wedge on each opener arm is behind the upper locking wedge on each column **(FIGS. 25-1A & 25-1B)**.



DOCK LOADING & UNLOADING

LOWER PLATFORM BELOW DOCK LEVEL

CAUTION

Use dock plate for moving loads between dock and vehicle. Dock plate must be supported by dock and vehicle floor. It must not rest on Liftgate platform.

NOTE: Lower the platform and platform railing before backing vehicle to dock.

1. Use column switch to lower (**DOWN**) platform to lower locking position (**FIGS. 26-1 & 26-1A**). Release switch when top edge of closed platform is below bed height and resting on lower locking wedges (**FIG. 26-1A**).

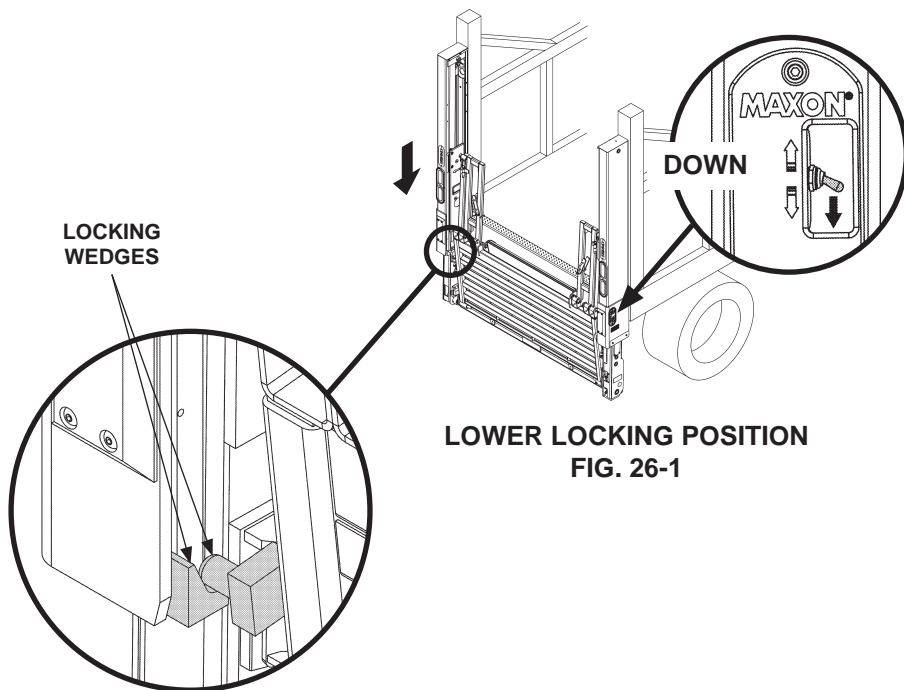


FIG. 26-1A

LOWER LOCKING POSITION
FIG. 26-1

2. Remove pin (**FIG. 27-1A**) on each side of platform to unlock platform railing. Lower the railing until it hangs over the platform as shown in **FIG. 27-1B**.

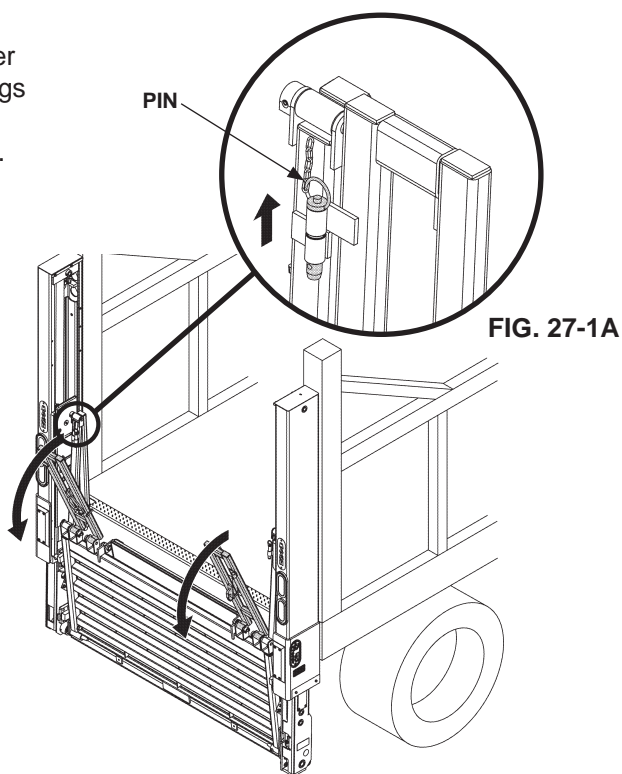


FIG. 27-1B

CAUTION

To prevent damage to Liftgate, use dock plate for moving loads between dock and vehicle.

3. Back up vehicle to dock (**FIG. 27-2**). Now loads can be moved between dock and vehicle.

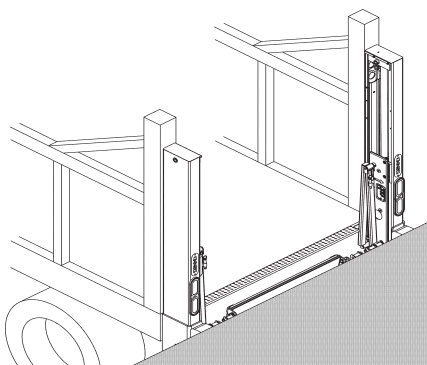


FIG. 27-2

LOWER PLATFORM BELOW DOCK LEVEL - Continued

4. When finished loading and unloading from the dock, raise platform railing on each side of platform as shown in **FIG. 28-1A**. Pin platform railing to platform as shown in **FIG. 28-1B**.

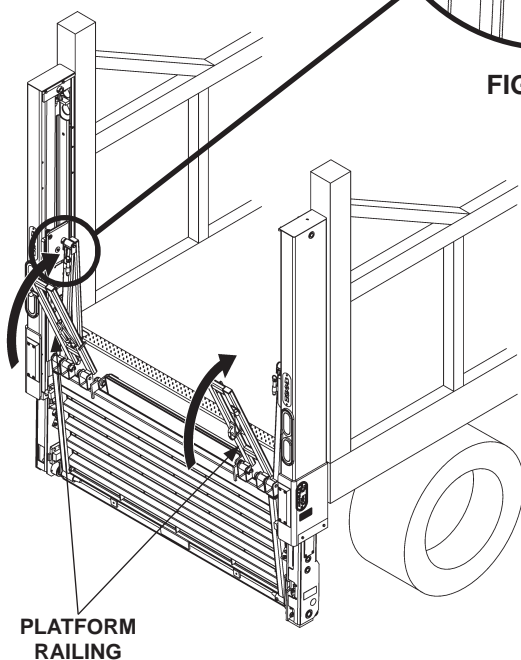


FIG. 28-1B

FIG. 28-1A

WARNING

Upper locking wedges must be engaged before moving vehicle.

5. Use column switch to raise **(UP)** platform to upper locking position as follows **(FIG. 29-2A)**. Raise platform until round wedge on each opener arm is behind the upper locking wedge on each column **(FIGS. 29-2A & 29-2B)**.

