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KEEP THIS MANUAL IN CAB OF VEHICLE

Register your liftgate on line at www.maxonlift.com/htm/services/reg.htm. For a free copy of other manuals that pertain to these liftgate models, please visit our website at www.maxonlift.com or call Customer Service at (800) 227-4116.

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SUMMARY OF CHANGES: M-13-02, REVISION A

PAGE	DESCRIPTION OF CHANGE
COVER	Updated REV and date of release. Added statement to get RA maintenance and parts manuals from www. maxonlift.com.
10,12	Added Family Owned decal and changed to latest Up- Down decal.
16	Updated illustrations to show redesigned latch mecha- nism.
19	Removed flip ramp operation instructions. Illustration shows new handles that replaced pull strap on flipover assembly.
25	Removed flip ramp instructions.
27	Updated illustration to show redesigned inboard stop block.

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 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. 11921 Slauson Ave Santa Fe Springs, CA 90670 (800) 227-4116

NOTE: For latest version manuals (and replacements), download manuals from Maxon's website at **www.maxonlift.com**.

- 2. Do not exceed rated load capacity of the Liftgate, which is **3500 lbs. for the RA-35 and 4500 lbs. for the RA-45**.
- 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 operating.
- 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 raised. 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 the Liftgate.
- 12. Never use a cell phone while operating the Liftgate.

LIFTGATE TERMINOLOGY



RECOMMENDED DAILY OPERATION CHECKS

NOTE: Before you check the Liftgate, park vehicle on flat ground and set the parking brake.

NOTE: If any of the following operation checks reveal a need to service or repair Liftgate, do not operate the Liftgate until a qualified mechanic services or repairs the Liftgate.

Before operating the Liftgate, the operator should do the following:

- □ Make sure battery is fully charged and battery terminal connections are clean and tight.
- □ Make sure cab cutoff switch is **ON**, if equipped.
- □ Visually check that pump cover is latched closed securely and undamaged. Look for hydraulic fluid leaking from the pump box.
- □ Visually check that the in-out and up-down control switches are in place and undamaged.
- Usually check that hydraulic locks are in place and undamaged.
- □ Visually check that all decals and reflective tape are in place (see **DECAL** pages). Also make sure decals and reflective tape are clean, legible, and undamaged.

Use the operation instructions in this manual to run the Liftgate out to operating position, lower platform to the ground, and open flipover or flip ramp (if equipped). Open retention ramp if equipped.

- Check slider assembly, frame assembly, lift arms, and parallel arms for cracks and bends. Also, make sure all bolts, nuts and pins are in place and undamaged.
- □ Make sure slider assembly, frame assembly, lift arms, and parallel arms are clean (no oil, debris, or corrosion).
- □ Check the hydraulic cylinders for leaking seals and hose connections. Follow the hydraulic hoses (or return lines for gravity down Liftgates) from the cylinders to pump box. Make sure all hoses are connected at both ends and there are no cracks, chafing, and fluid leaks.

With the flipover (or flip ramp) unfolded and platform raised to bed level, check if the platform is level (YES illustration). If the platform looks like the YES illustration, you can operate Liftgate. If the top surface of platform is below level line like the NO illustration, do not operate the Liftgate. (See NOTE at beginning of the DAILY OPERATION CHECKS.)



- □ Check the platform, flipover (or flip ramp) for cracks, holes, and bends on the load-carrying surface and side plates. If equipped, check retention ramp for cracks, holes, and bends. Also, make sure torsion bars and fasteners are in place and undamaged.
- Make sure platform and flipover load-carrying surfaces are clean (no oil, debris, or corrosion).

Use the operation instructions in this manual to operate the Liftgate through one cycle without a load on the platform. Raise the platform to vehicle bed height. Next, lower the platform to ground level.

□ When the Liftgate is moving, listen for unusual noises and look for a "jerking" motion or uneven movement on either side of the platform.

If service or repairs are not required (or if completed), stow the Liftgate according to operating instructions in this manual.

DECALS



SERIAL PLATE (REF)

FIG. 10-1



DECAL SHEET P/N 282522-01 FIG. 11-1



FIG. 12-1



DECAL SHEET P/N 282724-01 FIG. 13-1

FORKLIFT ADVISORY



FIG. 14-1

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OPERATION

NOTE: Platform must be released from latch before it can be lowered. To allow latch release handle to move freely and release platform, push up-down switch to **RAISE** position with one hand and pull latch release handle at same time.

 Tap UP button (FIG. 16-1) to take pressure off the hook (FIGS. 16-2 and 16-2B). Then pull latch release handle (FIGS. 16-2 and 16-2A).







FIG. 16-2B

CAUTION

To prevent damage to Liftgate & vehicle, Liftgate will not travel in or out from vehicle unless platform is at a certain height. To enable in and out travel, ensure platform is 16" above the ground at its lowest point.

NOTE: If necessary, release toggle switch to stop platform from moving.

 While holding the latch release handle (FIG. 16-2A), hold the up-down toggle switch in the DOWN position (FIG. 17-1) until platform is 16" above the ground (FIG. 17-2). Let go of latch release handle as the platform is lowered.



DOWN FIG. 17-1



 Hold the in-out toggle switch in the OUT position (FIG. 18-1) until the Liftgate travels to the outboard stops as shown in FIG. 18-2.



OUT FIG. 18-1



LIFTGATE TRAVELS TO OUTBOARD STOPS FIG. 18-2

CAUTION

To prevent damage to Liftgate & vehicle, platform cannot be raised to bed height unless Liftgate is in position at the outboard stops. To enable full raise and lower operation, ensure Liftgate is at the outboard stops.



DOWN FIG. 18-3

5. Hold the up-down toggle switch in the **DOWN** position (FIG. 18-3) to lower platform to ground level (FIG. 18-4).



PLATFORM LOWERED TO GROUND FIG. 18-4

To prevent possible injury, never operate control switch while unfolding the flipover or retention ramp.

6. If equipped with a flipover and retention ramp, unfold flipover (FIG. 19-1) by pushing down on handle to relieve pressure from the latch. Then, pull latch and rotate flip over to the ground using the handles (FIG. 19-1).



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.

NOTE: To unhook retention ramps, stand at side of the flipover of the ramp that is to be unhooked. After the retention ramps are unhooked, the recommended place for handling the retention ramps is at the center of the free edges (FIG. 20-2).



A CAUTION

To prevent injuries, stay clear of the retention ramp path as it is moved to ramp position. Go to either side of the ramp and stay out of the way.

8. Continue to pull retention ramp to the retention position (FIG. 21-1), and then to the ramp position (FIG. 21-2).



MOVING TO RETENTION POSITION (RH SIDE SHOWN) FIG. 21-1



MOVING TO RAMP POSITION (RH SIDE SHOWN) FIG. 21-2

NOTE: Before raising or lowering platform, retention ramp should be in the retention or stowed position (FIG. 21-1).

NOTE: If necessary, release the toggle switch to stop the platform from moving.

 To raise platform to bed level (FIG. 22-2), hold the up-down toggle switch on the wall, in the UP position (FIG. 22-1).







PLATFORM RAISED TO BED LEVEL FIG. 22-2

A 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 the lifting capacity of the Liftgate. If standing on platform, do not allow your feet to extend beyond the inboard edge of the platform. 11. Move load on platform (FIG. 23-1). If equipped, rotate retention ramp to retention position (FIG. = 23-2). Then, stand in LOAD the footprint area as shown in FIG. 23-1. RETENTION RAMP **INBOARD** EDGE FOOTPRINT AREA PLATFORM LOADING PLATFORM AT GROUND LEVEL FIG. 23-1 **NOTE:** Ensure vehicle door is latched open before raising platform to bed level. DOOR OPENING **12.** Raise platform to bed level (FIG. 23-2). Then, move load from platform into vehicle body. LOAD RETENTIO RAMP UNLOADING PLATFORM AT BED LEVEL

FIG. 23-2

🛦 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.

13. Load the platform at bed level as follows. Push load out of the vehicle body to correct position on platform (FIG. 24-1). Place all loads as close as possible to the inboard edge of the platform with the heaviest part toward the trailer body as shown in FIG. 24-1. If standing on platform with the load, stand in the footprint area shown and comply with the WARNING on the previous page.



LOADING PLATFORM AT BED LEVEL FIG. 24-1



24

A WARNING

Never move the vehicle unless the Liftgate is properly stowed.

NOTE: If necessary, release the toggle switch to stop the platform from moving.

15. Before moving the vehicle, prepare the Liftgate as follows. Make sure load is removed from platform. If platform is at bed level, lower the platform to ground level by holding the up-down toggle switch in the LOWER position (FIG. 25-1) until platform is on the ground (FIG.25-2).



LOWER FIG. 25-1



PLATFORM LOWERED TO GROUND FIG. 25-2

A WARNING

Never operate control switch while folding the flipover, flip ramp or retention ramp.

16. To stow, rotate retention ramp to retention position, and then to the flat position on flipover as shown in **(FIG. 26-1)**.



ROTATING RAMP TO STOWED POSITION (RH SIDE SHOWN) FIG. 26-1



18. Fold flipover **(FIG. 27-1)** on top of platform until latched.



FOLDING FLIPOVER FIG. 27-1

CAUTION

To prevent damage to Liftgate & vehicle, Liftgate will not travel in or out from vehicle unless platform is at a certain height. To enable in and out travel, ensure platform is 16" above the ground at its lowest point.

NOTE: If necessary, release the toggle switch to stop the platform from moving.

 Stow the Liftgate as follows. Hold the up-down toggle switch in the UP position (FIG. 28-1) until the platform is 16" above the ground (FIG. 28-2).



UP FIG. 28-1



PLATFORM RAISED TO 16" ABOVE GROUND FIG. 28-2

CAUTION To prevent damage to Liftgate & vehicle, platform cannot be raised to stow position unless Liftgate is ALL THE WAY IN at the inboard stops. To enable platform to be raised, ensure Liftgate is at the inboard stops.

20. To stow Liftgate, hold the in-out toggle switch in the **IN** position (FIG. 29-1). Then, let Liftgate travel all the way to inboard stop as shown in FIGS. 29-2 & 29-2A.



IN



CAUTION

Platform must be stowed against frame under hydraulic pressure. Do not rest platform on the latch.

21. Hold the up-down toggle switch in the UP position (FIG. 30-1) until the platform raises up against the frame and latches (FIG. 30-2 and 30-2A). Movement of the latch release handle (FIG. 30-2) indicates slider is latched.



UP FIG. 30-1



FIG. 30-2

NOTE: Stow light illuminates when the Liftgate is not in the stow position.

22. Before moving vehicle, ensure stow light is off (FIG. 31-1). STOW LIGHT XIE D FRONT LH CORNER FRONT OF TRAILER