



ROADWARRIOR RAMP LIFT ASSIST RETROFIT KIT INSTALLATION INSTRUCTIONS

FM-7.5-42
Rev. H
7/23/10

This kit provides the parts to add a lift assist kit to your RoadwarriorR ramp when your RoadwarriorR Carrier has the New Style Flip Cover.

If you have the old style carrier with end gate contact your customer service representative for the parts you need to complete your retrofit. You will need to order the following: 10281 – 1 ea, 10032 – 2 ea, and 10037 – 2 ea.

Please read the instructions completely before beginning any modifications.

You will need the following parts and tools to add a lift assist kit to your existing RoadwarriorR ramp.

- The parts list and illustration diagram for parts provided are in the center of this booklet
- 7/16" Open Ended Wrench (not included)
- 5/32" Allen Wrench depending on type of ramp hardware (not included)
- Vise Grips or Pliers (not included)
- Screwdrivers (not included)
- 3/8" Socket (not included)
- 7/16" Socket (not included)
- 1/2" Socket (not included)
- Torque Wrench (not included)

1. Unpacking and Handling

- a. Unpack and carefully lay out all of the parts. Make sure all parts are included as listed and shown in the parts list and illustration diagram.

2. Installing the L-Stop

- a. Bolt on the L-stop as shown using the 1/4-20 x 1 Flat Countersink machine screws and 1/4-20 insert stop nuts that are provided.

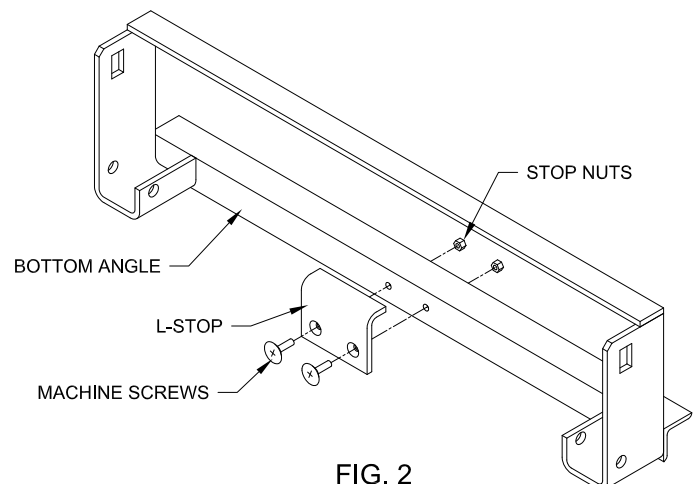


FIG. 2

3. Removing the non-compatible parts from existing ramp

- a. Using the 7/16" wrench and socket remove the six screws holding the apron to the ramp rails as shown in Fig. 3.

Note: Some older ramps may have button head screws holding on the apron. A 5/32" Allen wrench can be used to remove these screws.

- b. Remove the old ramp apron, screws and nuts and discard parts.
- c. Flip the ramp over so the roller housing is on top. The roller housing can be removed by removing the cotter pin or cotter circle from the clevis pin that goes thru the roller. With the roller parts removed the roller housing and apron support plate can now be removed using a 7/16" wrench and socket. All of these parts can be discarded.

Note: Newer style aprons will not have the support plate.

- d. Using a 1/2" socket remove the 5/16-18 x 1 21/64 hex head rolok screws from the first tie-rod on both sides and discard all of these parts.

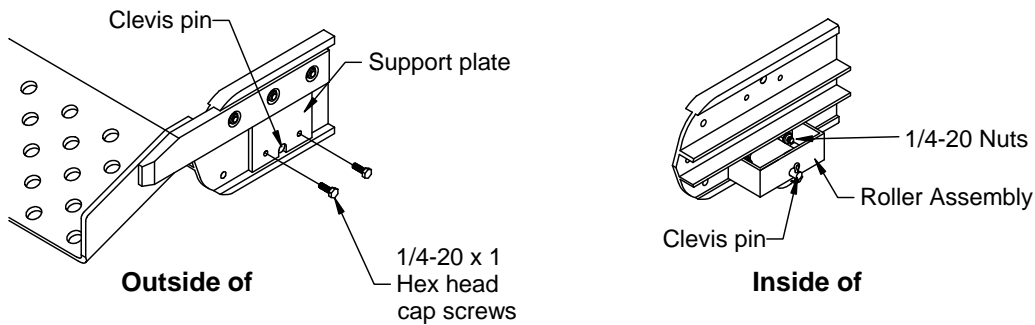
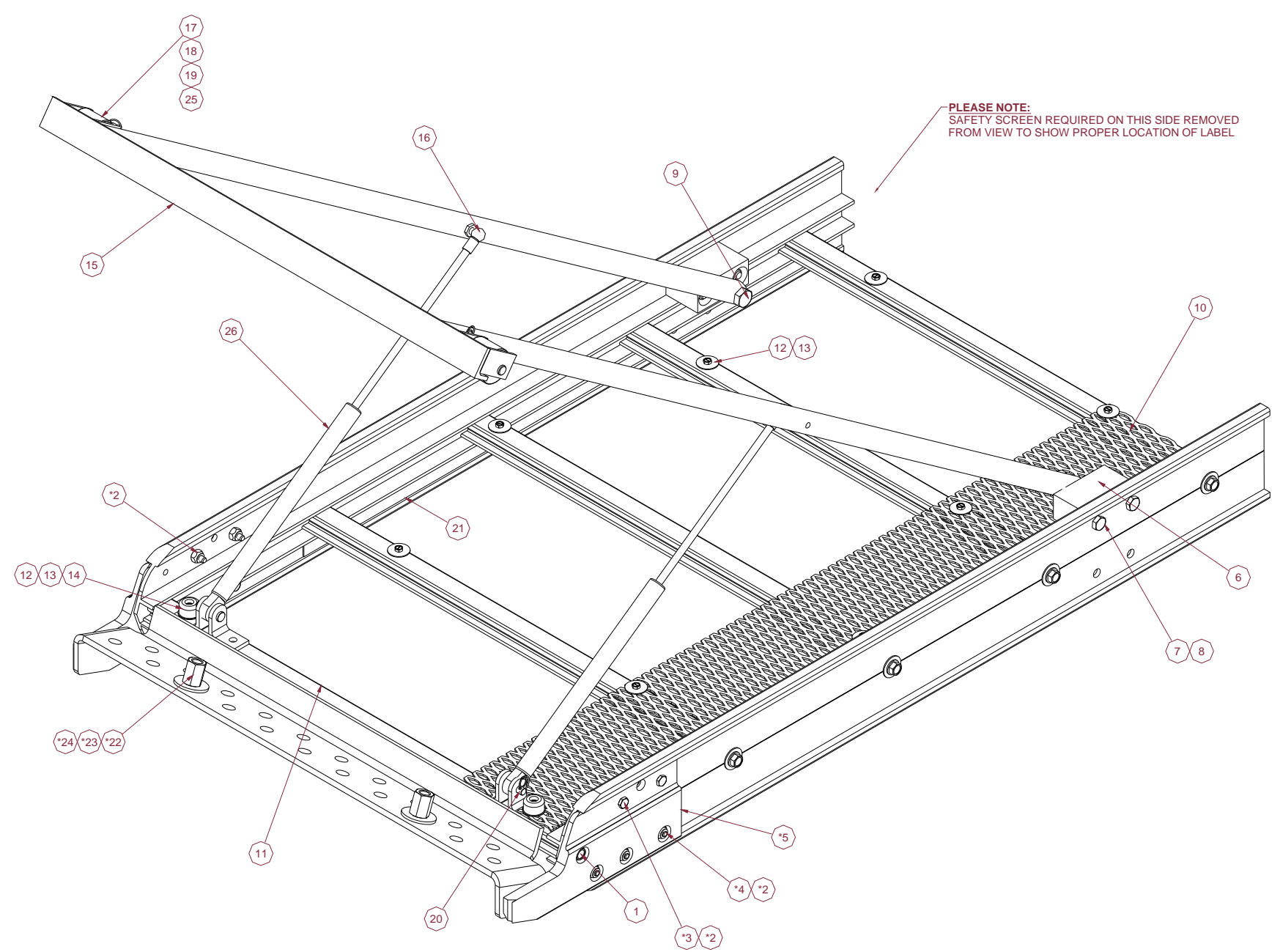


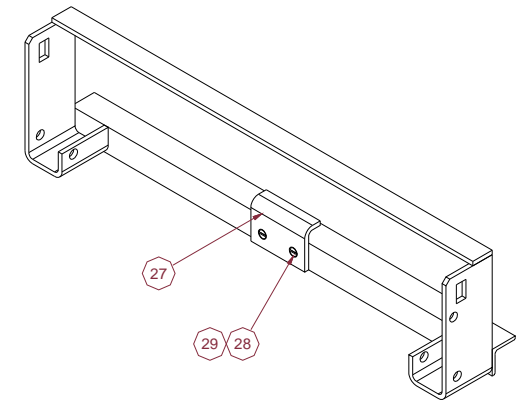
FIG. 3

Part List and Illustration Diagram

REVISION HISTORY				
LTR	ECN NO	DESCRIPTION	DATE	BY
B	628	UPDATED	10/24/2007	ARLA
C	663	UPDATED APRON HOLE LAYOUT	10/15/2007	ARLA
D	677	MOVED LABEL TO CORRECT LOCATION	10/25/2007	ARLA
E	966	UPDATED APRON	4/23/2010	ARLA



PLEASE NOTE:
SAFETY SCREEN REQUIRED ON THIS SIDE REMOVED FROM VIEW TO SHOW PROPER LOCATION OF LABEL



CARRIER WITH L-STOP

ITEM	DESCRIPTION	SELLABLE	PART	QTY
29	1/4-20 NYLON INSERT STOP NUT SS	YES	14008	2
28	1/4-20X1 FLT CNT'SNKH HD MACH SCR SS	YES	R00335	2
27	L-STOP PC'D RW CA W/LA	YES	R00356	1

CARRIER PARTS

26	SPRING GAS W/ENDS 10' 12' 14' & 16' RAMP	YES	R01139	2
25	COTTER CIRCLE 5/8" SS	YES	R01682	4
*24	1/2-13 X 1 THN WALL CPLR NUT ZP	YES	R00338	2
*23	WASHER CONICAL .115THK .515ID 1.5OD	YES	R00414	2
*22	1/2-13 X 1 1/4 CARRIAGE BOLT ZP	YES	R00339	2
21	LABEL CAUTION DO NOT REACH UNDER	YES	20111	2
20	CLEVIS PIN 5/16 X 1 1/4" ZP	YES	R01914	2
19	WASHER FLAT 3/8 X 7/8 18-8 SS	YES	10102	4
18	CLEVIS PIN 5/16 X 2-1/8 ZP	YES	01024	2
17	ROLLER 1-5/8 OD UHMW BLK - RW	YES	20082	2
16	BALL STUD 13MM	YES	R01141	2
15	TROLLEY FRAME ASSY LA-RW PLT'D	YES	R01134	1
14	BUMPER 7/8 OD X 17/32 HIGH W/HOLE	YES	10081	2
13	SCR SLFDRL SS HEX HD 10-16 x 3/4"	YES	R01650	10
12	WASHER FLAT 3/16 X 1 18-8 SS	YES	10101	10
11	SPRING BKT W/ TIE ROD LIFT ASSIST	YES	R00713	1
10	SAFETY GUARD	YES	20101	2
9	1/2-13X2-1/2 HEX HD CAP SCR GR8 ZP	YES	10040	2
8	3/8-16 LOCK W/NYL INS NUT SS	YES	14045	4
7	3/8-16 X 2 HEX HD CAP SCR GR5 ZP	YES	14046	4
6	MOUNTING BLOCK LA -RW	YES	20103	2
*5	APRON ASY 3 5/8X26 1/8 RMP OD 25 7/8	YES	22090	1
*4	1/4-20 X 3/4 HEX HD CAP SCREW SS	YES	10012	6
*3	1/4-20 X 1 HEX HD CAP SCREW GR5 ZP	YES	10016	4
*2	1/4-20 NYLON INSERT STOP NUT SS	YES	14008	10
1	SCREW ROLOK 5/16-18X1 21/64 HWH ZP	YES	R00662	2

Parts List

NOTES:

1. PART NUMBER R01147-1 INCLUDES ALL PARTS AS SHOWN (WITH APRON)
2. PART NUMBER R01147-2 EXCLUDES PARTS WITH AN * (WITHOUT APRON)

<p>6900 E. 163rd Street Belton, MO 64012-5463 (816) 318-8000 (800) 827-3692 Fax (816) 318-8100 www.romcorp.com</p>	RAMP		Scale: NTS	Date: 1/24/2007	Drawn: ARLA	Checked:
	KIT LA STD WIDTH WITH OPTIONAL APRON		Item No: R01147	Sheet: 1	Drawing No: R01147	

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Dimensions are in inches unless otherwise noted.

4. Installing the lift assist

- a. Using a metal file, remove any burrs that may be on the end of the ramp rail as shown in Fig. 4; burrs can cause interference and not allow the apron to install smoothly.
- b. Install new spring bracket tie rod, then slide new apron onto end of ramp (see Fig. 5). You may need to tap it lightly with the rubber mallet if it is a tight fit.
- c. Install three 1/4 -20 x 3/4 Hex Head Cap Screws and 1/4-20 nylon lock nuts with the heads on the inside of the rails as shown (apron top) on both sides of the apron. Then install two 1/4 x 20 x 1 Hex Head Cap Screws with heads on the outside (apron bottom) on both sides of the apron. Use the 7/16" wrench and socket to *loosely* install the hardware.

Note: Do not fully tighten the fasteners at this time.

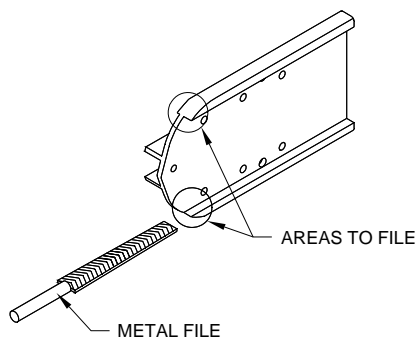


FIG. 4

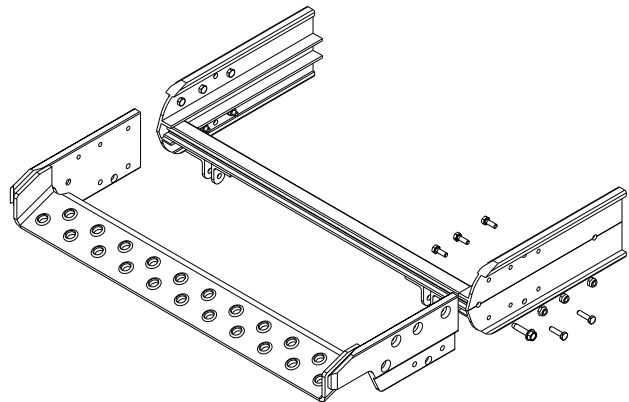


FIG. 5

- d. Install the 5/16-18 x 1 21/64 Hex head rolok screws thru the apron arms and rails into the tie rod using a 1/2" socket and torque wrench on both sides.

CAUTION: DO NOT over-tighten the screws. Over-tightening the screws may cause them to break off within the extrusion; R•O•M recommends 19.5 ± 1 ft. lbs. of torque.

- e. Tighten all loose apron bolts.
- f. Flip the ramp over and attach the two mounting blocks, using 3/8-16 x 2 bolts and insert nuts.
- g. Install the expanded metal safety guards at the apron end of the ramp against each rail. Attach the expanded metal using self-drilling screws and washers into the tie-rods staggering between both sides of the safety guard for secure attachment.

Note: The purpose of the guard is to prevent a hand injury from reaching thru the ramp casting when the lift assist is being folded.

- h.** Use the 1/2-13 x 2 1/2" bolts to attach the trolley frame to the mounting blocks.
- i.** Place gas spring blade end into the spring bracket tie rod assembly; securing with a 5/16 x 1 1/4" clevis pin and cotter circle.
- j.** Install the ball studs into the trolley frame and then install the ball end of the gas spring on the ball stud.

Your lift assist is now ready for use. Collapse the lift assist so that it is folded under the ramp. Place the ramp in the carrier by lifting the trolley frame assembly over the l-stop in the carrier.

To use the lift assist, slide the ramp out of the carrier until it strikes the l-stop. Lift the apron end of the ramp to the trailer deck. The lift assist will automatically lift much of the weight. Reverse the process to store the ramp.

If you have any problems, please call R•O•M Corporation at 1-800-827-3692.

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