

INSTALLATION MANUAL

REAR

Level of Difficulty

Moderate

All hardware listed below will be provided when ordering a kit number. If ordering a replacement center or side extentions you will receive the hardware listed for that part only.

Center Section Parts List			
1	TrailChaser [™] center section		
1	C-channel bracket		
2	Hex bolt, M14		
8	Flat washer, M14		
8	Lock washer, M14		
8	Button head screws, M6		
6	Lock nut, M6		
2	Cable ties		
1	License plate bracket		
1	License plate bracket cover		

Corner Parts List

1	Driver / left corner		
1	Passenger / right corner		
1	Driver / left side bracket (not used on Jeep JL)		
1	Passenger / right side bracket (not used on Jeep JL)		
4	Hex bolt, M10 x 35mm		
8 / 6*	Hex bolt, M10 x 30mm		
4	Button head bolt, M10 x 40mm		
20 / 16*	Flat washer, M10 x 20mm		
8	Flat washer, M10 x 27mm		
16 / 14*	Lock washer, M10		
12 / 10*	Nut, M10		
2	LED work light (#1501252) (side extensions with LEDs only)		
* Quantition listed are dependent on the side			

* Quantities listed are dependent on the side extension option (without LEDs / with LEDs) Note: All hardware may not be used

Tools Required

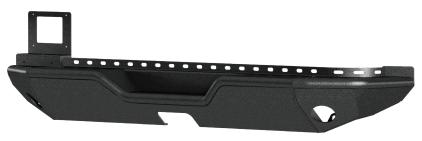
Torque wrench	Ratchet	
Socket set	Level	
Wrench set	Drill	
Small screwdriver	Drill bit, .25"	
Hex key set		

Product Photo (available with or without LED lights, see table below for configurations)



2082083 aluminum 2082081 steel

LED lights included



2082082 aluminum 2082080 steel

LED lights not included

Rear TrailChaser[™] Kits & Components

Kit#	Material	Center#	Side#	LED Lights	
2082082	Aluminum	2081025	2081221	Not included	
2082083	Aluminum	2081025	2081223	Included	
2082080	Steel	2081024	2081220	Not included	
2082081	Steel	2081024	2081222	Included	
All TrailChas	er™ humners and com	oonents are finished wi	th a textured black nov	wder coat	

All TrailChaser™ bumpers and components are finished with a textured black powder coa

Notes and Maintenance

Before you begin installation, read all instructions thoroughly.

Proper tools will improve the quality of installation and reduce the time required.

To protect the product, wax after installing. Regular waxing is recommended to add a protective layer over the finish. Do not use any type of polish or wax that may contain abrasives that could damage the finish.

For polished, gloss and other smooth finishes,

polish may be used to clear small scratches and scuffs on the finish.

Mild automotive detergent may be used to clean the product. Do not use dish detergent, abrasive cleaners, abrasive pads, wire brushes or other similar products that may damage the finish.

Periodic inspection of all wires and connections should be

performed to ensure there is no visible damage or loose connections.

CAUTION: Improper electrical installation may result in personal injury. Unless you are familiar with the installation and handling of electrical systems, have this step performed by someone who has that familiarity.

Refer to the table to the left when securing hardware during the installation process to help prevent damage to the product or vehicle.



Torque Specifications			
M10 bolt	33 ft-lbs.		
M12 bolt	58 ft-lbs.		
M14 bolt	93 ft-lbs.		
Use above torque setting unless otherwise noted			

Remove the factory mud guards on each side of the Jeep by removing the three bolts securing each mud guard in place.





Step 2

Remove the side braces on each side of the Jeep by removing the four bolts securing each side brace in place.





Step 3

Disconnect the wiring harness for the license plate light from the body of the Jeep.

Separate the connector from the wiring harness. A small screw driver may be needed to separate the connector.

Note: The bumper does not accommodate rear backup sensors.







Remove the four bolts securing the tow hook on the driver side. The tow hook will not be reinstalled.

Remove the two large bolts on the passengerside frame. **Note:** The six large bolts from the tow hook and the frame will be re-used for the bumper installation.

Remove the two nuts securing the bracket to the bumper. Repeat on the passenger side.





Step 5

Remove the two bolts securing the cross member to the bottom of the bumper.

With assistance, remove the bumper from the Jeep.





Step 6

Remove the license plate light, nuts and harness. Set aside for use in the installation of the new bumper.



Step 7

Place the bumper on a flat work surface. Attach the bumper side extensions by securing with an M10 hex bolt, lock washer, two M10 flat washers and a nut at each attachment point.

If installing the side extensions without LEDs, repeat this process for all four mounting locations.

If installing the side extensions with LEDs, repeat this process for all three mounting locations.

Repeat this step for the passenger side. Adjust alignment as necessary and tighten fasteners on both sides.







Take the C-channel bracket and place it into the passenger side frame of the Jeep.

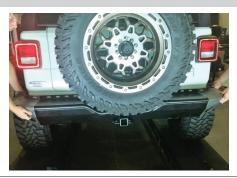
Make sure the nuts in the C-channel align with the holes in the bottom of the Jeep frame.





Step 9

With assistance, lift the bumper into place



Step 10

With the bumper held in place, secure the bumper to the Jeep by inserting two M14 bolts, lock washers and flat washers through the bumper and the Jeep frame into the nuts on the C-channel bracket on the passenger side.

Snug the fasteners, but do not fully tighten.

Step 10

o M14 rough nuts on r side.



Step 11

Re-use two of the factory bolts, lock washers and flat washers removed from the bottom of the frame to reattach the bumper to the bottom of the frame on the driver side.

Snug the fasteners, but do not fully tighten







Use the four remaining factory bolts, lock washers and flat washers to secure the bumper to the frame of the vehicle on the driver and passenger side.

Snug the fasteners, but do not fully tighten.





Step 13

Tighten the four bolts on the bottom of the driver and passenger side of the vehicle.

Tighten the four bolts on the side of the driver and passenger side of the vehicle.

Note: M12 fasteners should be torqued to 58 ft-lbs. M14 fasteners should be torqued to 93 ft-lbs.





Step 14

Secure the license plate bracket to the bumper using an M6 button head screw and lock nut.

Move the license plate bracket to the desired location and drill an additional 1/4" hole.

Place another M6 screw through the drilled hole and secure with a lock nut.

Tighten both M6 fasteners.







Route the factory wiring harness for the license plate light through the large hole on the driver side of the bumper.

Connect the wiring harness to the license plate light and place it in the license plate bracket cover.







Step 16

Re-using the factory fasteners, secure the license plate light to the license plate bracket cover.

Fasten the license plate bracket cover to the license plate bracket using two M6 screws.









Fasten the license plate to the license plate bracket using four M6 button head cap screws and lock nuts. Once all four fasteners have been started, tighten them all.





Step 18

Reconnect the wiring harness and test the function of the license plate light.

Use the provided cable ties to fasten any loose wiring to the body of the Jeep.

Note: If you are installing a rear bumper without LED lights, proceed to step 21.





Step 19

Mount the LED lights in the recessed pockets on the bumper corners with the provided hardware.

Adjust the light to the desired angle and fully tighten all of the hardware.

Note: If these lights are being used with a 24V system, the relay will need to be replaced with a 24V unit.

Disconnect the supplied switch from the wiring harness and install in the desired location.







Once the LED lights and switch are installed, connect the harness extension to each light. Insert the male plug on the harness extension into the female socket on each LED light.

Route the harness extension to the front of the vehicle and connect to the wiring harness. Insert the male plug on the wiring harness into the female socket of the harness extension. Reconnect the blue, red and black spade connectors to the switch as shown in the 'Wiring Harness' diagram.

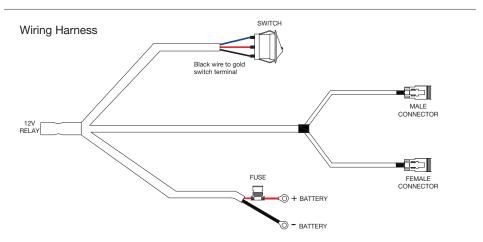
Connect the red fused wire with the ring terminal to the positive (+) battery post. Connect the black wire ring terminal to the negative (-) battery post or other suitable vehicle grounding point.

Mount the provided relay to the vehicle and secure all wires with zip ties away from moving parts to avoid damage.

Test the lights to ensure proper function.







Step 21

With the bumper installed, periodic inspections should be performed to ensure all mounting hardware remains tight.

Congratulations on the installation of your new ARIES rear TrailChaser[™] bumper.

To protect your investment, see the 'Notes and Maintenance' section on the first page of this instruction manual.



