



**STROMBERG CARLSON
PRODUCTS INC.**

Fifth Wheel Landing Gear

MODEL # LG-1, LG-2, LG-3, LG-4, LG-183708

Congratulations on purchasing your new landing gear, manufactured by Venture Manufacturing Co and marketed in the aftermarket by Stromberg Carlson Products Inc. This product is intended to stabilize and level fifth wheel trailers.

Safety Warnings:

- Read, understand and follow all instructions before installing and using product.
- NEVER allow anyone unfamiliar with the operating instructions to use this product.
- Read, understand and follow all instructions provided by the manufacturer of the RV this landing gear system is installed on. Stromberg Carlson Products Inc. is not responsible for improper installation, use, or maintenance of this product.
- Never attempt to lift or level without having both foot plates properly installed.
- When cranking jack or coupling trailer, secure trailer from rolling.
- These landing gear jacks are designed for vertical loading. Excessive side forces must be avoided.
- Never attempt to adjust the drop legs when the landing gear jacks are under load.
- Owner or operator must never position any part of their body under any portion of the jack or the load being supported or allow anyone else to be positioned under the load being supported. Disregard could cause property damage and/or serious bodily injury.
- Never drop trailer off the hitch.
- Never exceed maximum rated capacity.
- Make certain the drop leg safety retaining pins are fully inserted through both sides of the inner tube and the drop leg tube before using the landing gear jacks.
- Do not use these landing gear jacks to lift trailer for servicing or tire changes.
- Retract jack legs and drop legs fully before moving the trailer.
- Failure to follow these warnings and instructions can result in property damage and/or serious bodily injury

Product Specifications:

- LG-183708: dynamic load max of 8,000 lb, 4,000 lb per leg
- LG-1, LG-2, LG-3, LG-4 single power kit: dynamic load max of 5,000 lb, 2,500 lb per leg
- LG-1, LG-2, LG-3, LG-4 dual power kit (sold separately): dynamic load max of 8,000 lb, 4,000 lb per leg
- All landing gear listed above: 19 7/8" stroke, and an inner tube that extends 15", one inch at a time
- LG-1, LG-2, LG-3, LG-4: IP rated switch can be mounted in any convenient area - including your bottle gas area - with no fear of a spark. Be sure the switch mounting position allows for clear sight of the landing gear.



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Carton Contents:

Manual Landing Gear System

<i>LG-183708</i>		
(1)	LG-179013	29.5" lead leg assembly
(1)	LG-179014	29.5" follow leg assembly
(1)	LG-119226	crank handle
(1)	LG-XS	1" x 1" & $\frac{3}{4}$ " x $\frac{3}{4}$ " X shafts
(1)	LG-179015	gear box
(2)	LG-119225	foot & pin
(4)	LG-BRACKETS	weld on brackets
(1)		hardware bag

Hardware Bag for All Systems Listed



Electric Landing Gear Systems

<i>LG-1</i>		
(1)	LG-142178	5500 lb motor
(1)	LG-145236	IP rated switch
(1)	LG-179013	29.5" lead leg assembly
(1)	LG-179014	29.5" follow leg assembly
(1)	LG-119226	crank handle
(1)	LG-XS	1" x 1" & $\frac{3}{4}$ " x $\frac{3}{4}$ " X shafts
(1)	LG-179015	gear box
(2)	LG-119225	foot & pin
(4)	LG-BRACKETS	weld on brackets
(1)		hardware bag

<i>LG-2</i>		
(1)	LG-142178	5500 lb motor
(1)	LG-145236	IP rated switch
(1)	LG-177202	33.5" lead leg assembly
(1)	LG-177201	33.5" follow leg assembly
(1)	LG-119226	crank handle
(1)	LG-XS	1" x 1" & $\frac{3}{4}$ " x $\frac{3}{4}$ " X shafts
(1)	LG-179015	gear box
(2)	LG-119225	foot & pin
(4)	LG-BRACKETS	weld on brackets
(1)		hardware bag

<i>LG-3</i>		
(1)	LG-196308	6500 lb motor
(1)	LG-145236	IP rated switch
(1)	LG-179013	29.5" lead leg assembly
(1)	LG-179014	29.5" follow leg assembly
(1)	LG-119226	crank handle
(1)	LG-XS	1" x 1" & $\frac{3}{4}$ " x $\frac{3}{4}$ " X shafts
(1)	LG-179015	gear box
(2)	LG-119225	foot & pin
(4)	LG-BRACKETS	weld on brackets
(1)		hardware bag

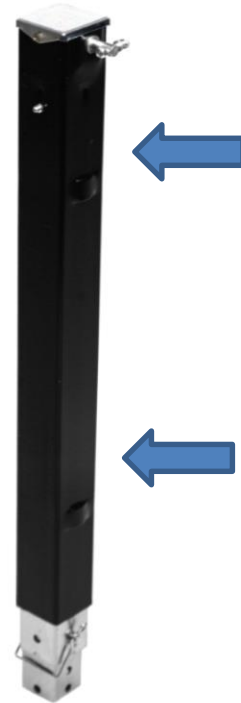
<i>LG-4</i>		
(1)	LG-196308	6500 lb motor
(1)	LG-145236	IP rated switch
(1)	LG-177202	33.5" lead leg assembly
(1)	LG-177201	33.5" follow leg assembly
(1)	LG-119226	crank handle
(1)	LG-XS	1" x 1" & $\frac{3}{4}$ " x $\frac{3}{4}$ " X shafts
(1)	LG-179015	gear box
(2)	LG-119225	foot & pin
(4)	LG-BRACKETS	weld on brackets
(1)		hardware bag

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TO INSTALL: BLOCK WHEELS AND LEVEL TRAILER FOR SAFETY

Weld bracket must be welded to the front frame of the fifth wheel trailer. Two weld brackets are enclosed for each leg assembly. We recommend a certified welder install these brackets to be sure penetration of the welds and metals. Failure to properly weld brackets to the frame can result in damage to the unit and/or serious injury or death.

Two brackets secure each leg. Brackets must be mounted over and under the embossments to support the leg in both directions. If necessary tabs can be welded to the leg to create embossments in different locations according to the frame of the coach.



Embossments are show by the arrows here and are on two sides of each tube.

When determining the mounting location be sure the upper most cage pin is below the bottom of the fifth wheel trailer for easy adjustment of the inner leg. Do mount the leg assemblies as high as possible to avoid dragging the assembly over speed bumps, crowned roads, curbs and other road impediments. Use the 3.5" x $\frac{3}{8}$ " carriage bolts to mount the lead and follow legs into the weld brackets using the $\frac{3}{8}$ " lock nuts.

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ONCE LEG ASSEMBLIES ARE INSTALLED

Mount the Gear Box to the lead leg:

The Gear Box has many stops and can be fitted to the Lead Leg according to your position. Place the plastic spacer back on the rotor to hold the Gear Box tight. The shim should face away from the Box



Remove the plastic molded part from the lead leg's rotor. Place the gear box over rotor and place plastic insert back. See photo below.



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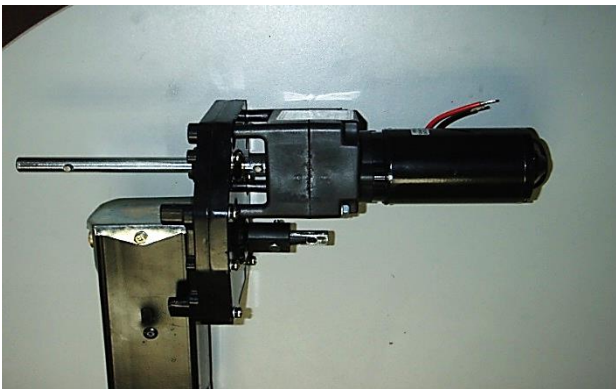
HARDWARE FOR THE UNIVERSAL MOTOR OPTION



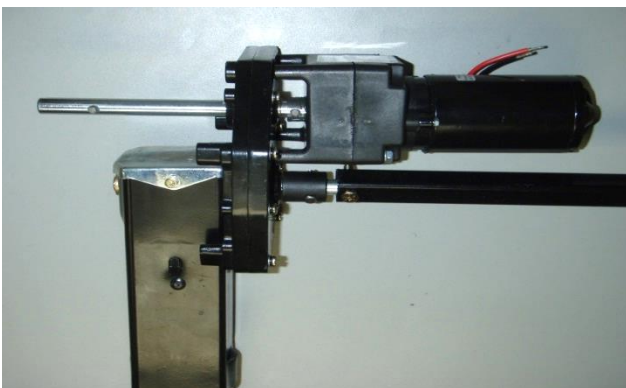
2-2.5" x 1/4" bolts for motor

4-#8 x 1" stainless steel sheet
metal screws to attach switch

The Universal Motor for the Electric Landing Gear Assembly can also be added.



Finally the Cross Shafts (XS) can be added. Be sure to use the smaller of the telescoping tubes when assembling the Cross Shafts to the Lead Leg. This will allow extra room near the motor.



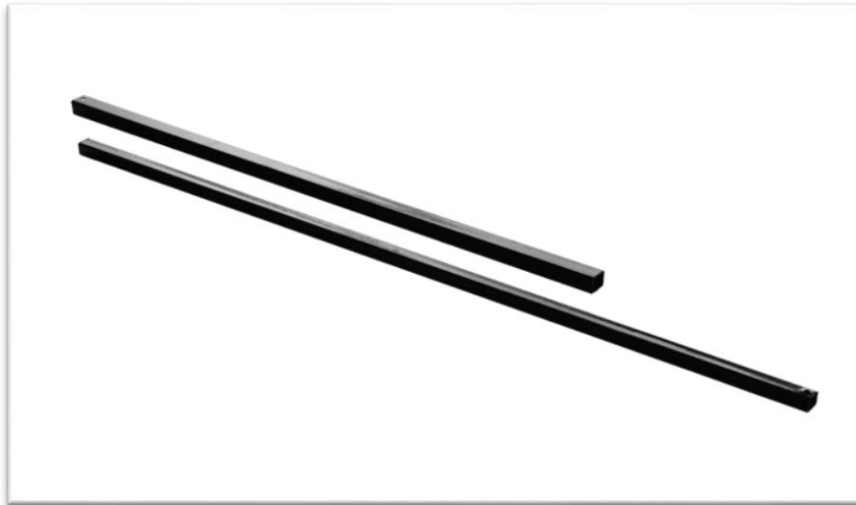


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CROSS SHAFTS TIE GEAR BOX TO FOLLOW LEG

The cross shafts will telescope helping you attach one end to the gear box, and the other end to the Follow Leg assembly. The larger of the telescoping tubes should be attached to the follow leg.



Use the 1.5" x 1/4" bolts to attach the cross shafts and the nylon lock nuts.

Your assembly can be tested at this point by using the manual crank handle on the gear box pin. Your leg assemblies should operate up and down via the manual crank handle. Counterclock wise to extend, and clock wise to retract.

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ELECTRIC LANDING GEAR MOTOR AND IP RATED SWITCH



Power Operation: Prior to operation, be sure battery is fully charged. Low voltage may result in damage to the electrical portion of the system. To EXTEND electric landing gear: Push EXT side of the landing gear switch. Hold the button down until the desired condition of level is reached. Release button when established.

Warning: Do not over extend the electric landing gear. Over-extending the landing gear may result in damage to the drive shaft putting the unit in an unsafe condition and will not be covered by product warranty.

To RETRACT Electric Landing Gear: Push RET side of the landing gear switch. Hold button down until landing gear is fully retracted. Release button.

MANUAL OPERATION

To MANUALLY EXTEND Landing Gear: Place manual crank handle coupler onto manual override shaft of the gear box. Turn the crank handle COUNTERCLOCKWISE to EXTEND landing gear. Stop cranking when desired level is reached.

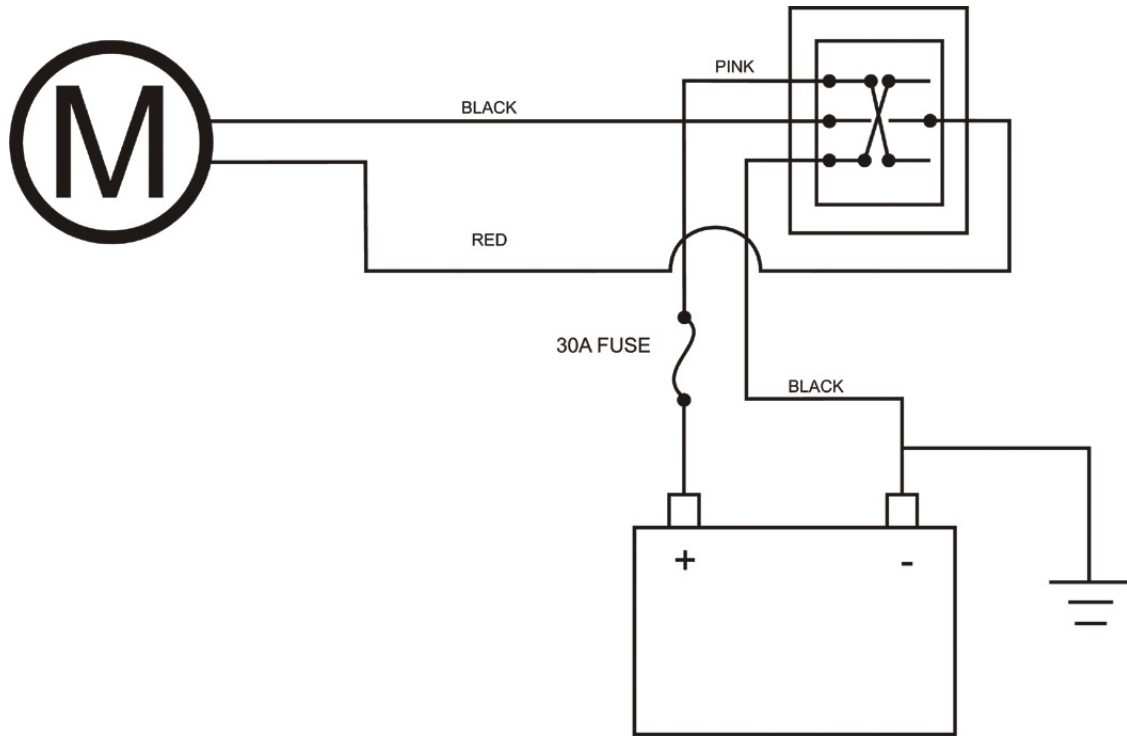
Warning: Do not over extend the landing gear. Overextending the landing gear may result in damage to the drive shaft putting the unit in an unsafe condition and will not be covered by product warranty.

To MANUALLY RETRACT Landing Gear: Place manual crank handle coupler onto manual override shaft of the gear box. Turn the crank handle CLOCKWISE to RETRACT landing gear. Stop cranking when landing gear is fully retracted. Remove and store crank handle.

The Universal Motor attaches to the gear box. The IP rate switch wiring diagram is enclosed separately.

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ELECTRIC LANDING GEAR SWITCH HARNESS



ELG SWITCH WIRING DIAGRAM



When working with Electric Landing Gear Switch Harnesses, the fuse holder (A) with fuse installed, must be included in the return.

DO NOT remove harness without the fuse holder attached as it will void the warranty and prevent receiving compensation for a warranty claim.

NOTE: - **DO NOT** remove fuse from ELG Switch Harnesses before installing units.



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