



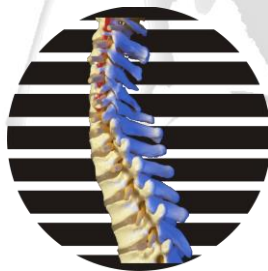
***Universal
Aftermarket
Lumbar Support
Systems***

Installation Guide

- Parts Descriptions•
- Assembly Diagram•
- Warranty•

Model L (L315-0682)

2-Way Power Mechanical Lumbar Support



SCHUKRA®

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310 CARLINGVIEW DRIVE
ONTARIO, CANADA M9W 5G1
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Lumbar Support Systems and OCS sensors

*If your vehicle is equipped with airbags, **most** vehicle manufacturers place front passenger side seat airbag sensors in one of three places:*

- *on the rails of the seat itself*
- *on the foam of the seat cushion*
- *a bladder-type device located between the seat cushion foam and the seat frame.*

The lumbar device does not interfere with an air bag sensor in these locations.

*However, there are some manufacturers (e.g. some HONDA models) which use an airbag sensor located on the surface of the seatback foam. In a case such as this, it is **NOT RECOMMENDED** to install the lumbar support system on the seat.*

The lumbar system is not to interfere with the sensor in any way!

*****Before installing the Universal Aftermarket Lumbar Support System on your vehicle's front passenger side seat, check with your vehicle's manufacturer about the location and type of OCS sensor so as not to interfere with the airbag safety feature in your vehicle*****

Model L

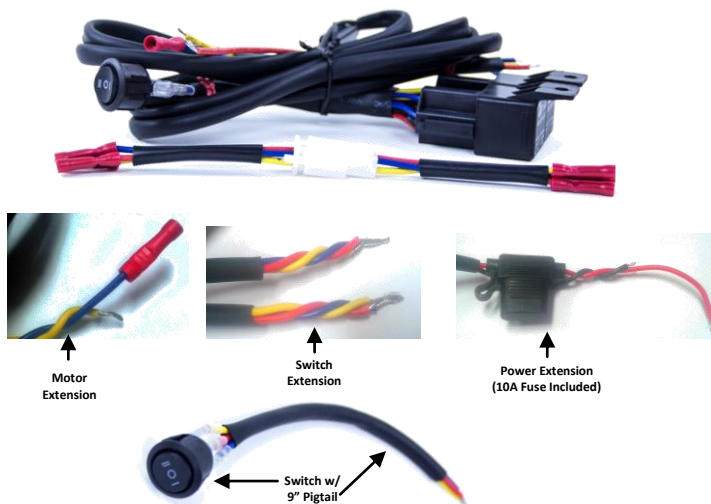
INSTALLATION GUIDE - PARTS - ASSEMBLY DIAGRAM

2-WAY POWER MECHANICAL LUMBAR SUPPORT L315-0682

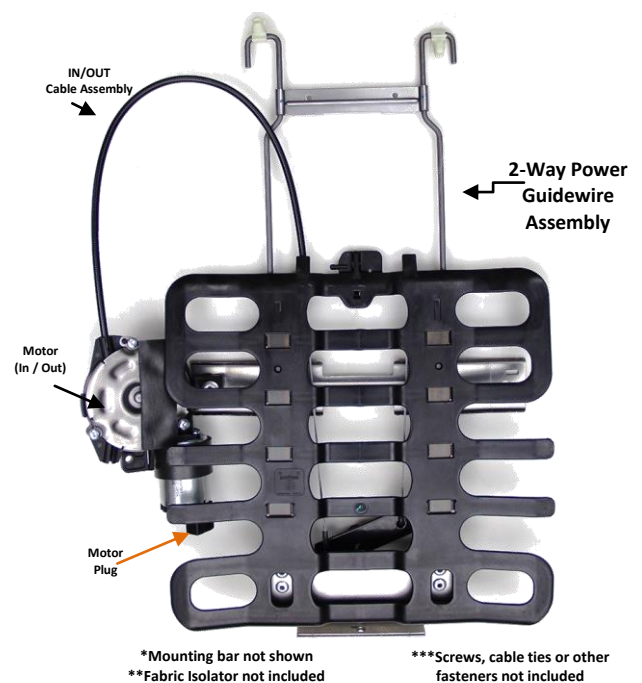
***BEFORE INSTALLATION CAREFULLY READ THE INSTRUCTIONS**
AUTOMOTIVE ELECTRICAL EXPERIENCE IS RECOMMENDED FOR THIS INSTALLATION.
PLEASE REFER TO MODEL L ASSEMBLY DRAWING

1. Check Parts Diagram for list of all parts needed for installation.
2. Remove seat from the vehicle and remove covers from the cushion and back.
3. Remove large seat foam from backrest. Measure approximately 16" from top of seat cushion or have the customer sit on the seat to locate the most appropriate mounting height location.
4. Hollow out foam for lumbar support ribs and motors to a depth of approximately $\frac{1}{4}$ " - $\frac{1}{2}$ " or as needed. This will allow the backrest to lay flat.
5. Attach top cross member to seat frame using supplied *mounting bar (or use existing one) at approximately $14\frac{1}{2}$ " from top of seat cushion. Cut excess bar length. You may also secure the lumbar by means of heavy gage Zip-ties. This is done by drilling self-tapping screws into the backrest frame and having the zip-ties suspend from them. Also secure to bottom corners of the lumbar to the backrest frame by zip-tying without screws.
6. Fitting the lumbar basket may be better achieved by having the actual end user of the equipment present during this phase of the install to ensure its placement is matched to user's own physique –not everyone has the same size torso! ☺
7. Position the lumbar in an upright orientation by ensuring the guidewire hooks are at the top. Attach guidewire assembly onto a cross member. **A piece of material (fabric isolator) may be placed between universal mounting plate and cross members to prevent any rattling if necessary.
8. Attach guidewire assembly to existing bottom cross member (or add a bar if necessary). ***Screws, cable ties and other fasteners are suggested. Cut excess bar length.
9. If choosing to use a fabric isolator, use glue to adhere the fabric isolator sheet to foam. The fabric isolator is typically a durable and flexible plastic sheet or other material highly durable to rub friction which acts to shield the foam from wear due to the up and down movement of the support. However, as the mechanism is mounted on a guidewire assembly, the amount of wear expected is inconsequential.
10. At this point, decide on a place to install your switch. Typically, the most convenient locations are alongside of seat frame or center console if applicable. Each installation is different. Use your own good judgment to locate the most likely location for the switch.
11. Proceed to Power Harness Installation (Pages 4 & 5)
12. Test lumbar to ensure unit is working properly.
13. Refit covers

POWER HARNESS X 1



BASKET ASSEMBLY X 1



Power Harness Installation

Part# LN2WP-HNS

For Use with Model L and Model N Lumbar

Follow the installation procedure on page 3 up to Step 9

>> **NEW! Black Round Reversing Momentary Rocker Switch** <<

*Operates in the same manner as your typical power window switch.

*9" Switch Pigtail: Mounts into a 13/16" Drill Hole

Switch Symbols:

= Double line - indicates increase of lumbar adjustment

— Single line - indicates decrease of lumbar adjustment

O Zero - indicates lumbar at rest (off position)

*No mounting hardware!

*Each installation is different - use your own good judgment to decide on the most likely location for your switch (switches).

Typically, the most convenient locations are alongside the seat frame, in the trim along the base of the seat, or, in the console. Your choice is a matter of personal preference.

The switch head is "keyed" to allow you to "lock" your switch into position in the mounting hole. Cut a small notch ("lock" notch) in the inner edge of your mounting hole once you've drilled it out. After inserting the switch, rotate the switch until the key "catches" in your notch.

Decide your switch's final orientation before creating your lock notch.

Once you've installed your harness, return to Page 3, Step 11 to complete your installation

(harness installation continued next page)



The New Power Mechanical Lumbar Harness consists of three sub-extensions from the central dual relay assembly.

Ensure the relays are solidly seated in their relay sockets before proceeding.

There is one switch & harness provided for each motor:

- **SWITCH Extension – 3-Wires**

RED wire, BLUE wire & YELLOW wire - Switch Pigtail attached with red twist tie

IMPORTANT: Complete your mounting hole and insert your switch pigtail into drill hole before connecting switch wires to harness.

- **MOTOR Extension – 2-Wires**

BLUE wire with Red Butt Connector (Hotwire) & YELLOW wire

Connect these wires to the motor plug(s) found mounted in the motor(s) of your lumbar mechanism.

The harness BLUE wire with red butt connector attaches to the RED wire on the motor plug.

- **POWER Extension – 2-Wires**

RED wire with Standard Size 10A Fuse/Fuse Holder & BLACK ground wire

***Connect these wires to vehicle power. Open the fuse holder & check the fuse is solidly inserted in the holder
Re-Close the fuse holder when your check is complete.***

FEATURES A CUSTOMIZABLE HARNESS:

All wires on the harness are bare ended & stripped, with the exception of the harness-to-motor hotwire. ***NO WIRE CONNECTORS*** are included so that each installer may choose their preferred wire connection method, or, to create a custom wire length for any of the three harness extensions.

Included with the harness is an optional modular wire connector that you may utilize for your lumbar switch should you desire to have a removable modular style switch connection.

QUESTIONS? Feel Free to Give Us a Call !



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Part # L315-0682 Power 2-Way Lumbar Support (Schukra)

Model L (2014 redesign)

NOTES:

1. MUST COMPLY WITH FMVSS302.
2. SHIP POSITION: FULL IN WITH LUMBAR ACTUATORS RELEASED FROM STALL CONDITION. IT IS L&P'S RECOMMENDATION THAT THE LUMBAR ACTUATOR SHOULD NOT BE SHIPPED UNDER A STALLED CONDITION. FOR ANY SUBSEQUENT IN PROCESS EVALUATIONS IT IS FURTHER RECOMMENDED THAT LUMBAR ACTUATOR BE RELEASED FROM THE STALL POINT BY 0.5 TO 1 SECOND PULSE AT 12.5V (MIN) AFTER THE EVALUATION IS COMPLETE.
3. 355mm IN-OUT TRAVEL
- 4: FOR BURR AND FLASH, SEE GENERAL NOTES IN TITLE BLOCK
- 5: LUMBAR DURABILITY PER L&P
12,000 DURABILITY CYCLES
A) 1,500 X AT -20°C (500 TIMES @ FULL TRAVEL/MAX PRESSURE & 1,000 TIMES @ 50% OF FULL TRAVEL, STALL TO ½ TRAVEL)
B) 1,500 X AT 85°C (500 TIMES @ FULL TRAVEL/MAX PRESSURE & 1,000 TIMES @ 50% OF FULL TRAVEL, STALL TO ½ TRAVEL)
C) 9,000 X AT 20°C (4,000 TIMES @ FULL TRAVEL/MAX PRESSURE & 5,000 TIMES @ 50% OF FULL TRAVEL, STALL TO ½ TRAVEL)
SYSTEM MUST BE FUNCTIONAL WITH NO ABNORMAL NOISE/BSR.
EXCESSIVE WEAR ON MATING COMPONENTS SHOULD BE NOTED IN REPORT.
- 6: LUMBAR JOUNCE IMPACT PER L&P
LUMBAR SUPPORT SET AT FULL FLAT FOR 100,000 CYCLES WITH 60LB LOAD ON SEAT BACK.

ELECTRICAL INFORMATION:

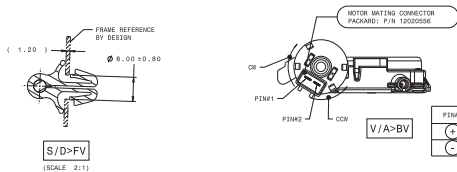
TO BE USED AS REFERENCE ONLY

SEAT BACK LOADED WITH 18.1kg LOAD (SAND BAG)
IN HORIZONTAL POSITION

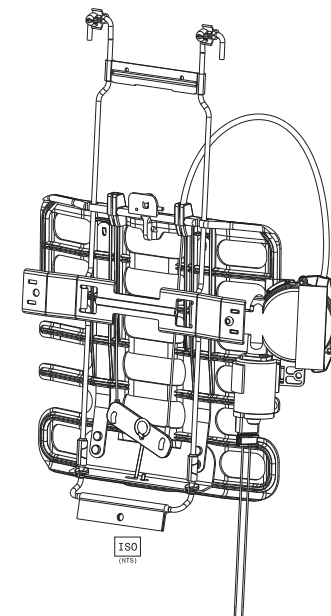
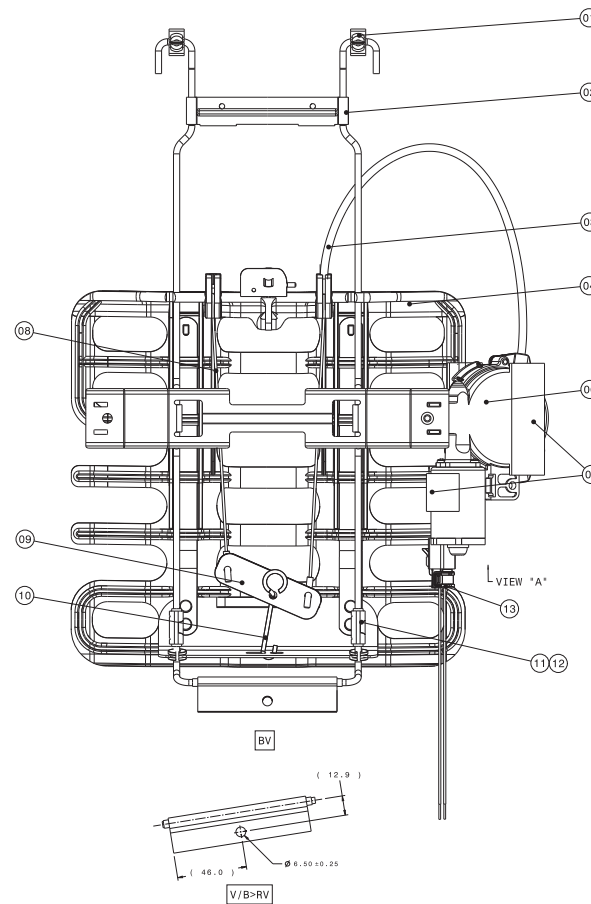
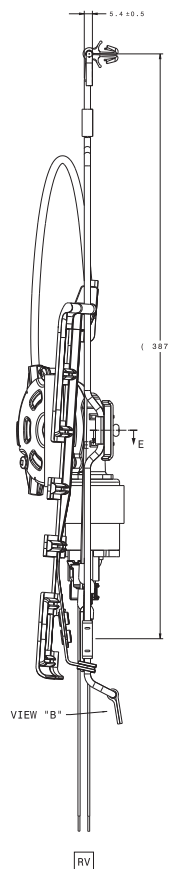
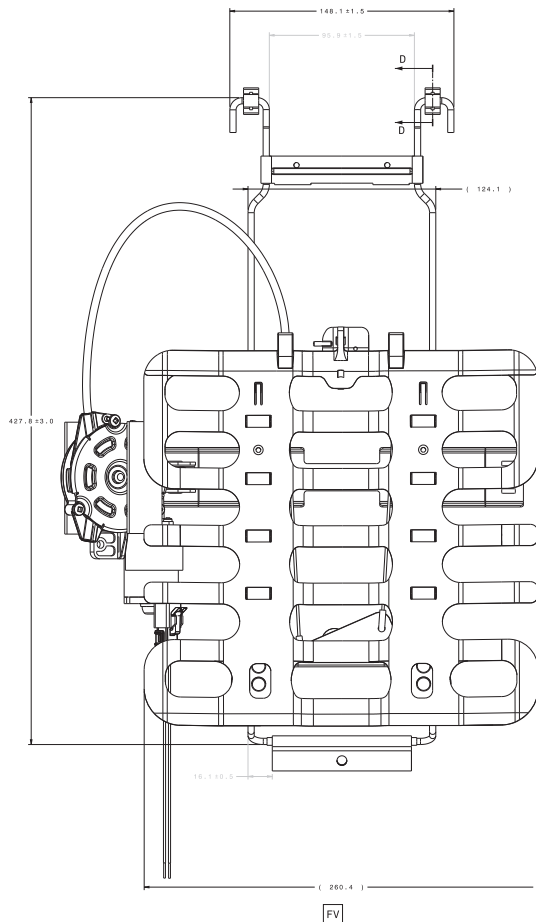
IN/OUT AT FULL-DOWN

12.5V		
CONTINUOUS (A)	IN RUSH (A)	STALL (A)
2.50	4.20	4.20

REQ.	REQ.	ITEM	DESCRIPTION
2	2	01	GUIDEWIRE CLIP
1	1	02	GUIDEWIRE ASSEMBLY
1	1	03	IN/OUT CABLE ASSEMBLY
1	1	04	BASKET ASSEMBLY
2	2	05	RIVET
1	1	06	NGPLS ACTUATOR 55mm (RH)
3	3	07	FOAM TAPE
1	1	08	HANGER CABLE ASSEMBLY
1	1	09	YOKE BAR
1	1	10	CENTER WIRE
2	2	11	COTTON TAPE 30mm
2	2	12	VERTEX CLIPS
1	1	13	WIRE HARNESS



P1N1	P1N2	ROTATION DIRECTION	LUMBAR (IN/OUT)
○	○	CCW	OUT
○	○	CW	IN

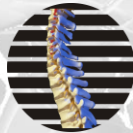




Warranty and Return Policy

Electric Lumbar Supports

Three (3) Year Warranty



Manual Lumbar Supports

Limited Lifetime Warranty

Pacific Restyling Products Ltd. warrants that we will replace the Universal Aftermarket Lumbar Support Systems mechanisms for up to three (3) years from the date of purchase.

This warranty is extended only to the original purchaser and does not cover collateral damage.

This warranty only covers failure due to defects in materials or workmanship which occur during normal use.

Any modifications done to the original unit renders this warranty VOID.

An authorized return may be made with a product in the same condition as when purchased for a 15% restock fee. All shipping charges must be paid by the purchaser and are not refundable.