

# HANDY GATE ASSEMBLY, INSTALLATION AND OPERATING INSTRUCTIONS



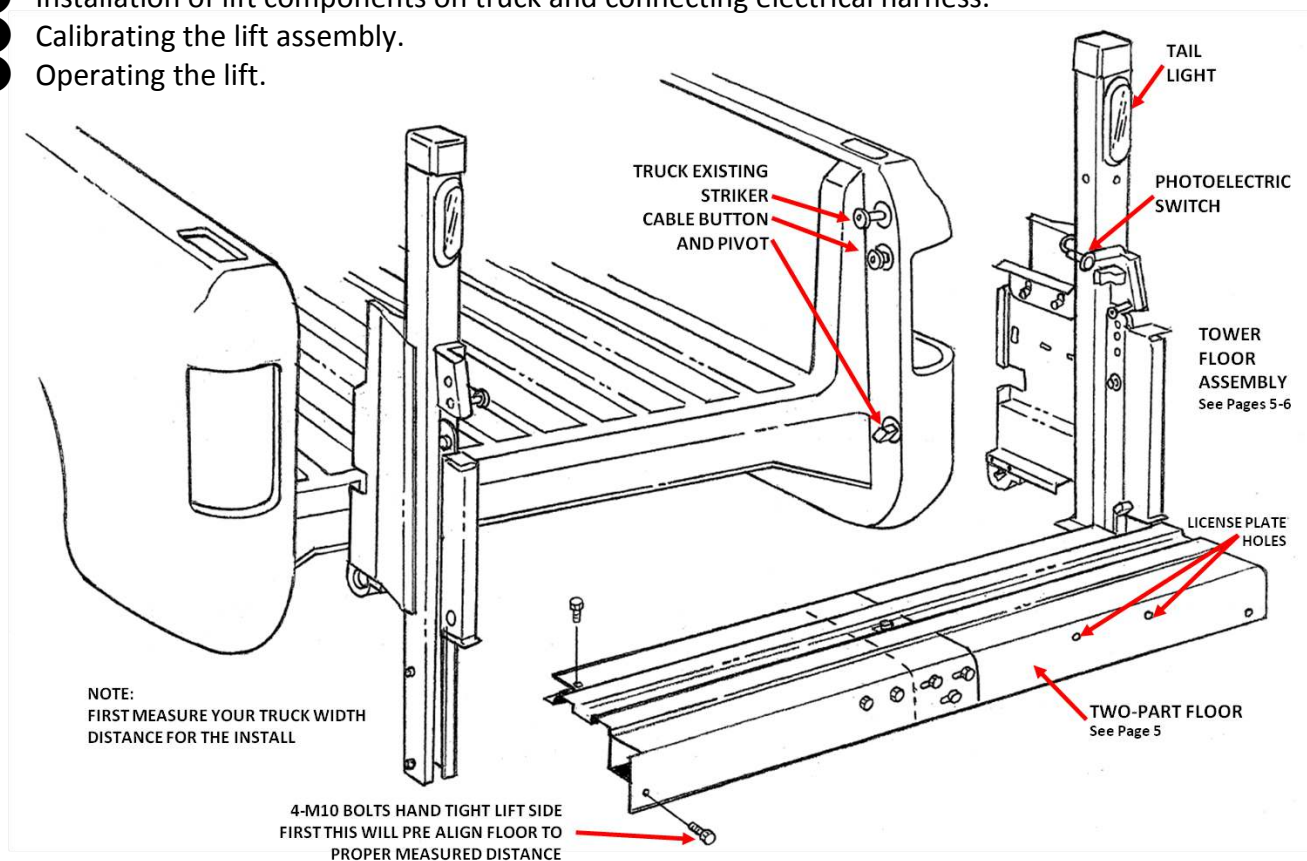
**BEFORE INSTALLING OR USING THE HANDY GATE, REVIEW THE VEHICLE LOADING LIMITATIONS OUTLINED IN THE VEHICLE OWNER'S MANUAL AND THE SAFETY COMPLIANCE CERTIFICATION LABEL LOCATED ON THE DRIVER'S DOOR PILLAR.**

**DO NOT EXCEED  
RATED LIFT  
CAPACITY 1,000 LBS  
OR 435 KGS**

The HANDY GATE is designed to attach to all Ford, Dodge and GMC/Chevy vehicles from 2008 through 2016. Each truck line consists of specific unique position installation requirements as noted in the following pictorial assembly guides.

There are **5** steps to the assembly, installation and operation of the HANDY GATE.

- 1 Opening cartons, reading the instructions, identifying the parts and hardware.
- 2 Pre-assembly of lift sides and floor.
- 3 Installation of lift components on truck and connecting electrical harness.
- 4 Calibrating the lift assembly.
- 5 Operating the lift.



## REQUIRED TOOLS

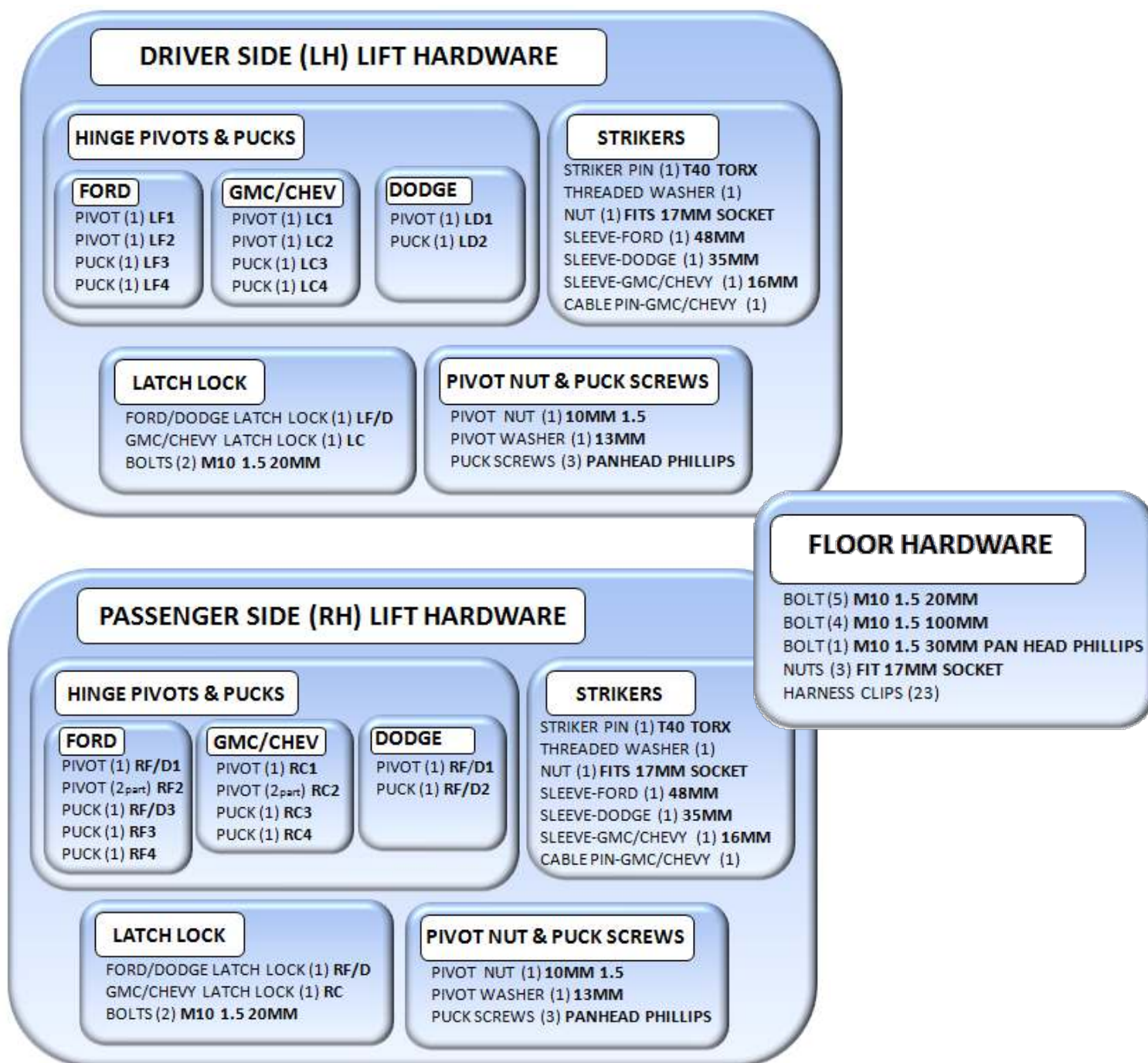
- PHILLIPS HEAD SCREWDRIVER
- 15MM SOCKET
- 17MM SOCKET
- TAPE MEASURE
- T40 TORX HEAD DRIVER
- 15MM WRENCH
- 17MM WRENCH

## 1 OPENING CARTONS & IDENTIFYING PARTS AND HARDWARE

Each carton of the HANDY GATE includes a **MASTER HARDWARE BAG** specific to the contents of each carton. It is best to assemble each section of the HANDY GATE (passenger –RH- side, driver –LH- side and floor) one at a time.



**PLEASE READ THE INSTRUCTIONS AND BECOME FAMILIAR WITH THE MAIN PARTS, HARDWARE, AND FASTENERS. SHOULD YOU NEED ASSEMBLY OR SERVICE INFORMATION CONTACT ULTRA-FAB PRODUCTS FOR ASSISTANCE. (800) 860-7571. DO NOT CALL THE DISTRIBUTOR.**



- 1** Use these charts to determine the correct hinge pivot and puck parts for your truck. The charts are organized by the OE truck, model, year and whether or not the tailgate has a torsion bar assist. All Ford and Dodge trucks have a torsion assist.

Example: **2012 Ford F150**

LH Hinge Pivot: **LF1** RH Hinge Pivot: **RF/D1**

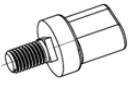





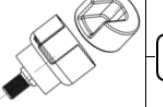
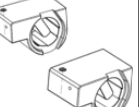
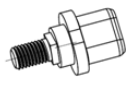

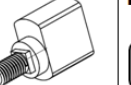

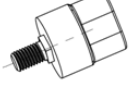
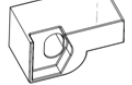


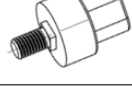
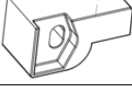
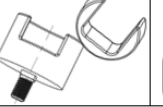
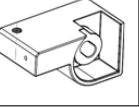
LH Puck: **LF3**

RH Puck: **RF/D3**

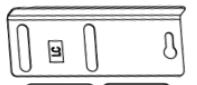


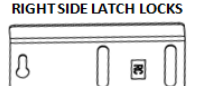
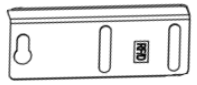

### HINGE PIVOT AND PUCK FIT CHART

MAKE	MODEL	YEAR	DRIVER SIDE (LH)		PASSENGER SIDE (RH)	
			HINGE PIVOT	PUCK	HINGE PIVOT	PUCK
FORD	F150	2008-2014	LF1	LF3	RF/D1	RF/D3
	F150 w/o remote	2015-2016	LF2	LF4	RF2	RF3
	F150 w remote	2015-2016	LF2	LF4	RF2	RF4
	F250	2008-2016	LF1	LF3	RF/D1	RF/D3
	F350	2008-2016	LF1	LF3	RF/D1	RF/D3
	F450	2008-2016	LF1	LF3	RF/D1	RF/D3
DODGE	RAM 1500	2009-2016	LD1	LD2	RF/D1	RF/D2
	RAM 2500	2009-2016	LD1	LD2	RF/D1	RF/D2
	RAM 3500	2009-2016	LD1	LD2	RF/D1	RF/D2
GMC/CHEV	SILVERADO 1500 w/o assist	2008-2016	LC1	LC3	RC1	RC3
	SILVERADO 1500 with assist	2008-2013	LC2	LC4	RC1	RC3
	SILVERADO 1500 with assist	2014-2016	LC2	LC4	RC2	RC4
	SILVERADO 2500 w/o assist	2008-2016	LC1	LC3	RC1	RC3
	SILVERADO 2500 with assist	2008-2013	LC2	LC4	RC1	RC3
	SILVERADO 2500 with assist	2014-2016	LC2	LC4	RC2	RC4
	SILVERADO 3500 w/o assist	2008-2016	LC1	LC3	RC1	RC3
	SILVERADO 3500 with assist	2008-2013	LC2	LC4	RC1	RC3
	SILVERADO 3500 with assist	2014-2016	LC2	LC4	RC2	RC4
	GMC SIERRA 1500 w/o assist	2008-2016	LC1	LC3	RC1	RC3
	GMC SIERRA 1500 with assist	2008-2013	LC2	LC4	RC1	RC3
	GMC SIERRA 1500 with assist	2014-2016	LC2	LC4	RC2	RC4
	GMC SIERRA 2500 w/o assist	2008-2016	LC1	LC3	RC1	RC3
	GMC SIERRA 2500 with assist	2008-2013	LC2	LC4	RC1	RC3
	GMC SIERRA 2500 with assist	2014-2016	LC2	LC4	RC2	RC4
	GMC SIERRA 3500 w/o assist	2008-2016	LC1	LC3	RC1	RC3
	GMC SIERRA 3500 with assist	2008-2013	LC2	LC4	RC1	RC3
	GMC SIERRA 3500 with assist	2014-2016	LC2	LC4	RC2	RC4

# 1 HINGE PIVOT AND PUCK IDENTIFICATION CHART

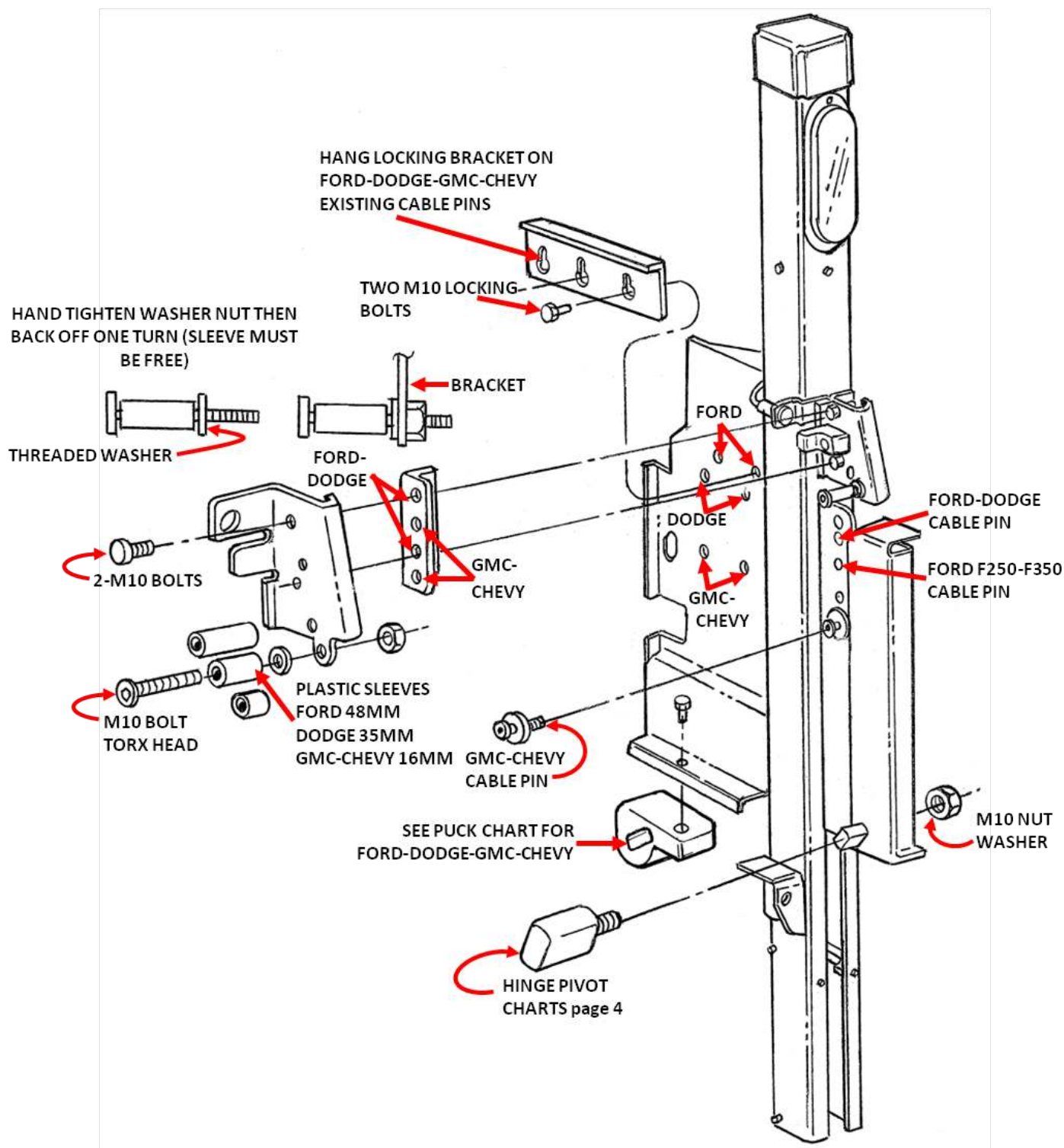
DRIVER (LH) HINGE PIVOTS		DRIVER (LH) PUCKS		PASSENGER (RH) HINGE PIVOTS		PASSENGER (RH) PUCKS	
<b>LF1</b> REQUIRED FOR FORD		<b>LF3</b> REQUIRED FOR FORD		<b>RF/D1</b> REQUIRED FOR FORD		<b>RF/D3</b> REQUIRED FOR FORD	
<b>LF2</b> REQUIRED FOR FORD		<b>LF4</b> REQUIRED FOR FORD		(2 PART) <b>RF2</b> REQUIRED FOR FORD		<b>RF3</b> REQUIRED FOR FORD	
<b>LD1</b> REQUIRED FOR DODGE		<b>LD2</b> REQUIRED FOR DODGE		<b>RF/D1</b> REQUIRED FOR DODGE		<b>RF/D2</b> REQUIRED FOR DODGE	
<b>LC1</b> REQUIRED FOR GMC/CHEVY		<b>LC3</b> REQUIRED FOR GMC/CHEVY		<b>RC1</b> REQUIRED FOR GMC/CHEVY		<b>RC3</b> REQUIRED FOR GMC/CHEVY	
<b>LC2</b> REQUIRED FOR GMC/CHEVY		<b>LC4</b> REQUIRED FOR GMC/CHEVY		(2 PART) <b>RC2</b> REQUIRED FOR GMC/CHEVY		<b>RC4</b> REQUIRED FOR GMC/CHEVY	

## CHART

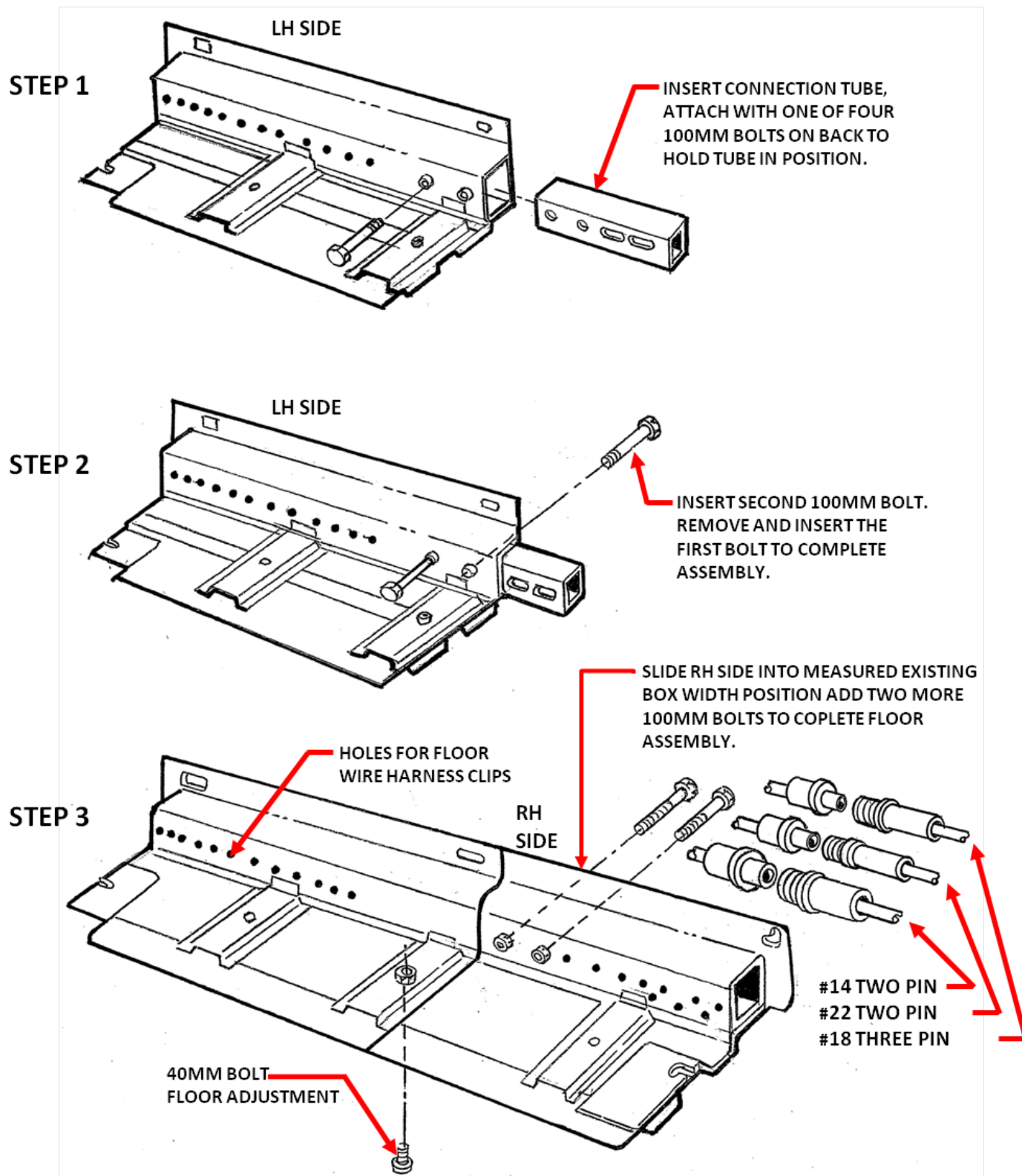
BOLTS	NUTS	STRIKER PINS	LATCH LOCKS
<b>M10-1.5x100MM HEX</b> QUANTITY 4 REQUIRED FOR FLOOR	<b>M10-1.5 (FITS 17MM SOCKET)</b> QUANTITY 3 REQUIRED FOR FLOOR QUANTITY 2 REQUIRED FOR PIVOTS QUANTITY 2 REQUIRED FOR STRIKERS	<b>M10-1.5 x 77MM T40 TORX HEAD</b> QUANTITY 2 REQUIRED FOR STRIKERS	<b>LEFT SIDE LATCH LOCKS</b>  QUANTITY 1 REQUIRED FOR GMC CHEVY  QUANTITY 1 REQUIRED FOR FORD DODGE
<b>M10-1.5x20MM HEX</b> QUANTITY 5 REQUIRED FOR FLOOR QUANTITY 4 REQUIRED FOR LATCH LOCK	<b>PUCK SCREWS</b>  ST4, 8x16 PANHEAD PHILLIPS QUANTITY 6 REQUIRED FOR PUCKS	<b>STRIKER SLEEVE 48MM</b> QUANTITY 2 REQUIRED FOR FORD <b>STRIKER SLEEVE 35MM</b> QUANTITY 2 REQUIRED FOR DODGE <b>STRIKER SLEEVE 16MM</b> QUANTITY 2 REQUIRED FOR GMC CHEVY	<b>RIGHT SIDE LATCH LOCKS</b>  QUANTITY 1 REQUIRED FOR GMC CHEVY  QUANTITY 1 REQUIRED FOR FORD DODGE
<b>M10-1.5x30MM PANHEAD PHILLIPS</b> QUANTITY 1 REQUIRED FOR FLOOR	<b>HARNESS CLIPS</b>  CONVULATED TUBING CLIP QUANTITY 23 REQUIRED FOR FLOOR	<b>WASHERS</b> <b>M10-1.5x3MM THREADED WASHER</b> QUANTITY 2 REQUIRED FOR STRIKERS <b>11MM WASHER</b> QUANTITY 2 REQUIRED FOR PIVOTS	
<b>GMC/CHEVY CABLE PIN</b> QUANTITY 2 REQUIRED FOR GMC CHEVY			

## HARDWARE IDENTIFICATION

### 3 PRE-ASSEMBLY OF LIFT SIDES AND FLOOR



## 2 3 INSTALLATION OF LIFT AND ELECTRICAL COMPONENTS

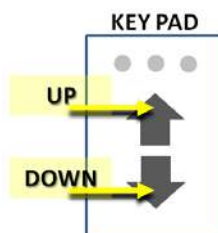
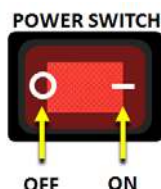


## 4 CALIBRATION

Before initial operation, the HANDY GATE must be calibrated so that the tailgate can correctly engage the striker in the closed position.



ONCE CALIBRATION HAS BEEN STARTED, YOU MUST COMPLETE ALL FOUR (4) STEPS TO EXIT THE CALIBRATION MODE. WHEN LIFT IS IN CALIBRATION MODE AND INSTALLER WAITS MORE THAN TWO (2) MINUTES WITHOUT PROCEEDING TO NEXT STEP, THE CALIBRATION MODE WILL TIME OUT. INSTALLER WILL HAVE TO START CALIBRATION OVER STARTING WITH STEP 1.



### STEP 1 ENTERING CALIBRATION MODE

MAKE SURE 7-WAY PLUG IS SECURE TO THE TRUCK

- Turn power switch ON. Press and hold both up and down arrows on the keypad simultaneously for four (4) beeps, then release. The first indicator light will be a steady RED and the second and third indicator lights will be flashing YELLOW. This indicates that the lift is in **CALIBRATION MODE**.
- Holding the tailgate up with one hand, press the up or down buttons to position the tailgate's fish mouth latch opening in front of the new lift striker (this position should be a close approximation to final location).



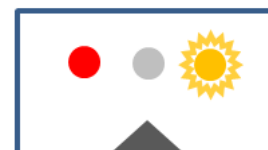
### STEP 2 FINE TUNE TO RH STRIKER LOCATION (RH MASTER SIDE)

Press and hold both up and down arrows on the keypad simultaneously for four (4) beeps, then release. The left indicator light will be a steady RED and the middle indicator light will be flashing YELLOW while the right indicator light will be off. This indicates that the lift is in **FINE TUNE CALIBRATION MODE** for the RH (Master) Lift. Use the UP or DOWN buttons to position the tailgate fish mouth latch directly in front of the new lift striker.



### STEP 3 FINE TUNE TO LH STRIKER LOCATION (LH SLAVE SIDE)

Press and hold both up and down arrows on the keypad simultaneously for four (4) beeps, then release. The left indicator light will be a steady RED and the middle indicator light will be off while the right indicator light will be flashing YELLOW. This indicates that the lift is in **FINE TUNE CALIBRATION MODE** for the LH (Slave) Lift. Use the UP or DOWN buttons to position the tailgate fish mouth latch directly in front of the new lift striker.



### STEP 4 EXITING CALIBRATION MODE

Press and hold both arrows on the keypad simultaneously for four (4) beeps then release. The left indicator light will be a steady RED and the middle and right indicator lights will be off. This is also the normal OPERATING mode.



Gently close the tailgate engaging the strikers to make sure the tailgate lift is properly calibrated. If the tailgate does not close repeat steps 1 through 4.

## **5 OPERATION**

1. Open tailgate.
2. Press ON button to turn on Lift. Red light will turn on.
3. Press and hold UP or DOWN buttons on the key pad to move both lift legs to desired height. The red light and both yellow lights are on when legs are traveling.
4. The upper limit is the calibrated striker position.
5. The down limit is the ground. If vehicle is on a hill and lift does not touch ground, place wood blocks under lift legs. The lift leg will always touch ground first before tailgate with a 2" clearance.
6. To protect tailgate finish make sure ground is clear of objects (rocks, boards, etc.)
7. The legs stop when the UP/DOWN key is released.
8. After using lift, the tailgate must be raised and securely closed to strikers. Closing the tailgate will prevent damage during vehicle travel.
9. If a slow flashing RED light comes on in Extend/Retract operation, a low voltage situation exists and the battery needs to be fully charged.
10. If the RED light flashes quickly, a high amp situation exists and lift will turn off after three (3) seconds. The lift will reset itself in three (3) seconds and can be used again until a high amp situation occurs.
  - The high amp draw situation can be caused by too much load. Reduce the load on the lift.
  - The high amp draw can also be caused by worn parts and the lift needs to be serviced. Owner should call Ultra-Fab for service options.



## **WARNINGS**

- MUST COMPLY WITH MEASUREMENT INSTRUCTIONS IN #4 PAGE 8 AND #2 PAGE 9.
- CENTER YOUR LOAD ON PLATFORM.
- WHEN NOT IN USE OR UNATTENDED CLOSE TAILGATE.
- STAND TO THE SIDE OF THE LIFT WHILE IT IS IN OPERATION.
- READ ASSEMBLY AND SERVICE INFORMATION.
- READ OPERATOR'S INSTRUCTIONS
- FREQUENTLY CHECK CABLES AND OTHER COMPONENTS FOR WEAR OR DAMAGE AND REPAIR AS NECESSARY WITH PARTS PROVIDED BY ULTRA-FAB PRODUCTS.
- CHECK ALL SAFETY DEVICES FOR PROPER OPERATION.
- DO NOT RIDE OR PERMIT ANYONE TO RIDE ON LIFT. THE LIFT IS NOT A PERSONNEL OR WHEELCHAIR LIFT.
- DO NOT MAKE ANY MODIFICATIONS TO THE LIFT OR ITS SAFETY FEATURES.
- DO NOT ALLOW USE OF LIFT BY A PERSON WHO HAS NOT HAD PROPER TRAINING IN ITS OPERATION.
- DO NOT TRY TO LIFT OF LOWER MORE THAN THE RATED 1,000 POUND CAPACITY OF THE LIFT.
- DO NOT ADD TO OR REMOVE PARTS OF LIFT AS IT WILL VOID YOUR WARRANTY.
- DO NOT MOVE VEHICLE UNLESS TAILGATE IS IN CLOSED POSITION.
- DO NOT SHOW CHILDREN OR UNAUTHORIZED PERSONNEL HOW TO OPERATE LIFT.
- DO NOT LEAVE PLATFORM OPEN, OR UNLATCHED WHEN LIFT IS NOT IN USE OR UNATTENDED. NEVER LEAVE PLATFORM DOWN TO BE USED AS A STEP.

# ONE-YEAR LIMITED WARRANTY

## HANDY GATE



### THE MANUFACTURER NAMED BELOW MAKES THE FOLLOWING WARRANTY WITH RESPECT TO THE ABOVE ULTRA-FAB PRODUCTS

1. This Warranty is made only to the first Purchaser (hereinafter called the "Original Purchaser") who acquires this product for their own use.
2. This Warranty will be in effect for one year from the date of purchase by the Original Purchaser. It is suggested that the Original Purchaser retain a copy of the dated bill of sale as proof of the date of purchase.
3. This Warranty covers only specified parts which shall be free from defects in material and workmanship under normal use. This Warranty does not cover conditions unrelated to the material and workmanship of the product. Such unrelated conditions include, but are not limited to (a) faulty installation and any damage resulting from such; (b) the need for normal maintenance and any damage resulting from the failure to provide such maintenance; (c) failure to follow Manufacturer's instructions for use of this product, and (d) any accident to, or misuse of, any part of this product and any alteration by anyone other than the Manufacturer or its authorized representative.
4. In order to obtain the benefits of this Warranty, you should return the product which you find defective to the Manufacturer named below during the period that this Warranty is in effect. All charges incurred in delivery of the product to the Manufacturer, and in picking it up after the Warranty service has been completed, must be paid by the Original Purchaser.
5. Any item returned in the manner described in paragraph 4 will be examined by the Manufacturer. If it is found that the returned item was defective in material or workmanship, the Manufacturer will repair it without charge for material and labor.
6. Ultra-Fab will pay freight on replacement parts during the first 90 days of ownership by the Original Purchaser.
7. The Manufacturer does not authorize any person or company to create any Warranty obligation or liability on their behalf.
8. IN NO EVENT SHALL THE MANUFACTURER BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.
9. ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR ANY PURPOSE, IS LIMITED TO THE DURATION OF THIS LIMITED WARRANTY. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.
10. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

**Ultra-Fab Products, Inc.**

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