

7929 Lincoln Ave. Riverside, CA 92504 Phone: 951.689.ICON | Fax: 951.689.1016

#### **DESCRIPTION**

ICON TOYOTA LEAF SPRING INSTRUCTION WORKBOOK

# INSTRUCTIONS INCLUDED

NSTRUCTIONS			
51100   ADD A LEAF KIT (96-UP TACOMA, 00-06 TUNDRA)	3-4		
51200   ADD A LEAF KIT (07-UP TUNDRA)	5-6		
158505   MULTI-RATE LEAF SPRING KIT (05-UP TACOMA)	7-10		
158509   MULTI-RATE LEAF SPRING KIT (07-UP TUNDRA)	11-14		

NOTE: There are multiple installation instructions included in this workbook. Please refer to the correct installation instructions using the corresponding part number and vehicle application. If you have any questions or need assistance, call ICON directly at (951) 689-4266.

# **DISCLAIMER**

#### ICON VEHICLE DYNAMICS LIABILITY DISCLAIMER

ICON does not make any representations or warranties regarding the fitness of any ICON product for a particular installation or conformance of any ICON product with a particular vehicle application. Installation of any ICON suspension system is at the sole discretion of the end user and in making a purchase of any ICON suspension system, the purchaser assumes the responsibility and liability for any and all damage or injury, of any kind or nature whatsoever, caused by, resulting from, arising out of, or occurring in connection with the use or installation of any ICON suspension system. ICON is not liable for and specifically disavows any installation that is not in conformance with original equipment manufacturer's recommendations or instructions. Purchaser agrees that in the event of any claim or lawsuit arising out of the installation or use of an ICON suspension system, purchaser shall indemnify and hold harmless ICON, its agents, employees, officers and owners from and against any and all loss, expense, damage or injury that ICON may sustain as the result of such claim. [ICON defers to and recommends recalibration after suspension installation on 2018 model Toyota vehicles and other manufacturers who make any similar recommendations.]

# WARRANTY

#### ICON VEHICLE DYNAMICS LIMITED LIFETIME WARRANTY

ICON Vehicle Dynamics warrants to the original retail purchaser who owns the vehicle on which the product was originally installed. ICON Vehicle Dynamics does not warrant the product for finish, alterations, modifications and/or installation contrary to ICON Vehicle Dynamics instructions. ICON Vehicle Dynamics products are not designed, nor are they intended to be installed on vehicles used in race applications, for racing purposes or for similar activities. (A "race" is defined as any contest between two or more vehicles, or a contest of one or more vehicles against the clock, whether or not such contest is for a prize). This warranty does not include coverage for police or taxi vehicles, race vehicles, or vehicles used for government or commercial purposes. Also excluded from this warranty are sales outside of the United States of America and Canada.

ICON Vehicle Dynamics' obligation under this warranty is limited to the repair or replacement, at ICON Vehicle Dynamics' discretion, of the defective product. Any and all costs of removal, installation or re-installation, freight charges and incidental or consequential damages are expressly excluded from this warranty. Items that are subject to wear are not considered defective when worn and are not covered.

ICON Vehicle Dynamics components must be installed as a complete kit as shown in our current application guide. Any substitutions or exemptions of required components will immediately void the warranty. Some finish damage may happen to parts during shipping and is not covered under warranty.

This warranty is expressly in lieu of all other warranties expressed or implied. This warranty shall not apply to any product that has been improperly installed, modified or customized subject to accident, negligence, abuse or misuse.







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PART #	DESCRIPTION
51100	96-UP TACOMA/00-06 TUNDRA 1.5" ADD A LEAF KIT

COMPONENTS INCLUDED		
(2) 158501 05+ TACOMA/00-06 TUNDRA ADD A LEAF PACK	(1) 52050 8" U-BOLT KIT	
HARDWARE INCLUDED		
N/A		
TOOLS REQUIRED		
JACK JACK STANDS CUT OFF WHEEL CENTER PUNCH	9/16" SOCKET / WRENCH 7/8" SOCKET / WRENCH 14MM SOCKET / WRENCH 19MM SOCKET / WRENCH TORQUE WRENCH	
TECH NOTES		
1. SOME LEAF PACKS MAY HAVE A SPRING CLIP THAT WILL NEED TO BE REMOVED TO ALLOW FOR		



#### **WARNING!**

- \*\* READ ALL INSTRUCTIONS THOROUGHLY FROM START TO FINISH BEFORE BEGINNING INSTALLATION! IF THESE INSTRUCTIONS ARE NOT PROPERLY FOLLOWED SEVERE FRAME, SUSPENSION AND TIRE DAMAGE MAY RESULT TO THE VEHICLE!
- \*\* ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.
- \*\* ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLTION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.

#### INSTALLATION

INSTALLATION OF THE ICON ADD A LEAF KIT.

- 1. Using a properly rated jack, raise the rear of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the rear wheels.
- 2. Remove the lower rear shock bolts using a 19mm socket/wrench.

2. LEAVING THE FACTORY OVERLOAD LEAF INSTALLED IS NOT RECOMMENDED

- 3. Use a jack to support the axle then loosen and remove the driver side U-bolts using a 19mm socket/wrench. Make sure the axle is well supported or it could fall when the U-bolts are removed.
- **4.** Slowly lower the axle away from the springs and remove the factory centering pin and factory overload spring. Clamp the factory spring together before removing center pin. Remove the factory overload spring at this time, this will not be reused.
- **5**. If your factory leaf pack is equipped with a spring clip that interferes with the ICON add a leaf spring clip, the factory spring clip must be removed from the leaf. To remove the spring clip, cut the head of the rivet off and pound the rivet out of the leaf with a center punch. Sand the rivet hole smooth on both sides. Use touch up paint to prevent corrosion.
- **6.** The add a leaf has a different length front to rear of the centering pin. The longer side is to be placed towards the REAR of the vehicle.
- 7. Remove the spring clip hardware and center pin nut from ICON add a leaf for installation.
- 8. Place the new add a leaf pack between the axle and factory spring pack, make sure the ICON add a leaf clamp bolts and center pin nut are unbolted before installation. Slide new center pin through factory leaf spring pack, reinstall the supplied center pin nut and tighten. Trim the excess length of the center pin, leaving about 1/2" of threads sticking out from the top of the nut.
- **9**. Use a jack to raise the axle and guide the spring center pin into the hole on the top of the axle. Install supplied U-bolts (long U-bolts on driver side), washers, and nuts. [Torque to 120ft-lbs]
- 10. Reinstall the spring clip bolts.
- Reinstall shock to the factory lower shock mount using a 19mm socket/wrench. [Torque to factory spec]
- 12. Repeat steps 2-11 on opposite side of the vehicle.
- 13. Reinstall wheels and lower to the ground. [Torque to factory spec]





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PART #	DESCRIPTION
51200	07-UP TUNDRA 1.5" LIFT EXPANSION LEAF SPRING PACK

COMPONENTS INCLUDED		
(2) 158510 07+ TUNDRA EXPANSION PACK	(1) 52050 TOYOTA REAR 8" U-BOLT KIT (1) 705166 TUNDRA EXPANSION PACK	
HARDWARE INCLUDED		
N/A		
TOOLS REQUIRED		
JACK JACK STANDS TORQUE WRENCH HAMMER	C - CLAMPS PRY BAR TORQUE WRENCH	
TECH NOTES		
1. ICON RECOMMENDS REMOVING THE ENTIRE LEAF PACK FROM THE VEHICLE PRIOR TO		



#### **WARNING!**

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- \*\* ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.
- \*\* ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLTION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.\_

#### INSTALLATION

- 1. Using a properly rated jack, raise the rear of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the rear wheels.
- 2. Remove the lower rear shock bolts.

INSTALLING THE (51200) EXPANSION LEAF SPRING PACK.

- 3. With a floor jack under the rear end loosen and remove the U-bolts. Make sure the axle is well supported or it could fall when the U-bolts are removed
- **4**. Slowly and carefully lower the axle away from the springs and remove the factory centering pin and factory over-load spring. **NOTE:** You may want to use C-Clamps to secure the pack before you completely remove the center pin.
- 5. With the new ICON (51200) pack on the ground, C-clamp the leafs together and remove the nuts on the guide pins to expand the pack.
- 6. Separate the OEM secondary springs from the main leaf spring using a pry bar carefully un-folding each of the collars/spring clips. Remove the (2) OEM secondary leaf springs that are shown. [FIGURE 1 & 2]







FIG.2

7. The reinstallation order should be as follows: OEM main spring, ICON (51200) expansion pack, thick OEM overload.

8. Slip in the new spring pack in between the OEM main Spring and the OEM thick overload. The leaf springs will have to be clamped together in order to get the locating pin to slide through and be tightened. [FIGURE 3 AND 4]





FIG.4

- **9**. Tighten one side of the C-Clamps and threaded locating pins slightly, then the other side, back and forth till the springs are fully clamped together.
- 10. Raise the axle (reinstall the leaf pack if you chose to remove the full spring assembly) and guide the spring center pin in to the hole on the top of the axle.
- 11. Install new U-bolts, washers and nuts. [Torque to factory spec]
- 12. Install shocks onto lower factory mount: Compress shock and insert bolt into the factory shock mount. [Torque to factory spec]
- 13. Repeat steps 2-12 for the other side of the vehicle.

FIG.3

14. Install wheels and lower vehicle to the ground [Torque lugs to factory spec]. Check U-bolt torque with the vehicle on the ground.



#### 158505 INSTALLATION INSTRUCTIONS

4-6-2020 REV.A

PART #	DESCRIPTION
158505	05-UP TACOMA MULTI-RATE RXT LEAF SPRING

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9/16" SOCKET / WRENCH 7/8" SOCKET / WRENCH 17MM SOCKET / WRENCH 19MM SOCKET / WRENCH

THE ICON RXT LEAF SPRING IS MODULAR, MEANING THAT YOU CAN CONFIGURE THE SPRING PACK TO YOUR DESIRED SETTING FROM THESE AVAILABLE OPTIONS:

OPTION #1 - THE SPRING IS SHIPPED AT THIS SETTING (LIGHTEST SPRING RATE).

OPTION #2 - REPLACE THE 3RD SPRING (COUNTING FROM THE TOP DOWN) WITH THE ADDITIONAL LEAF.

OPTION #3 - PLACE THE ADDITIONAL LEAF BETWEEN THE 2ND AND 3RD SPRING (COUNTING FROM THE TOP DOWN). DO NOT REMOVE LEAF FROM SPRING PACK.

ICON'S MEASURED SPECS FROM OUR TEST TRUCK (2016 4WD DCLB TACOMA):

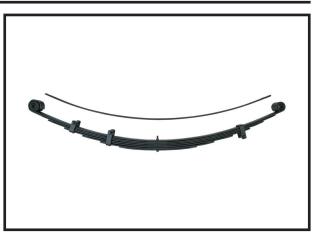
OPTION #1 - LIFT HEIGHT OVER STOCK: + 1.875" (UNLOADED)

OPTION #2 - LIFT HEIGHT OVER STOCK + 2.25" (UNLOADED)
LIFT HEIGHT OVER STOCK WITH 200LBS IN BED: + 1.75"

OPTION #3 - LIFT HEIGHT OVER STOCK: + 2.625" (UNLOADED)

LIFT HEIGHT OVER STOCK WITH 600LBS IN BED: + 1.125"

LIFT HEIGHT OVER STOCK WITH 1200LBS IN BED: - .125"



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- \*\* ICON VEHICLE DYNAMICS RECOMMENDS THAT YOU EXERCISE EXTREME CAUTION WHEN WORKING UNDER A VEHICLE THAT IS SUPPORTED WITH JACK STANDS.
- \*\* ICON VEHICLE DYNAMICS RECOMMENDS ALL INSTALLATION TO BE PERFORMED BY A PROFESSIONAL SHOP/SERVICE TECHNICIAN. PRODUCT FAILURE CAUSED BY IMPROPER INSTALLATION WILL NOT BE COVERED UNDER ICON'S WARRANTY POLICY.

#### INSTALLATION

FIG.1

- 1. Using a properly rated jack, raise the rear of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the rear wheels.
- 2. Remove the lower shock bolt using (2) 17mm. [FIGURE 1]



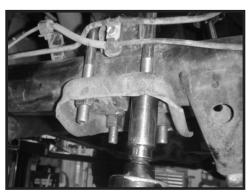


FIG.2

- 3. Support the axle using a floor jack. Remove the U-bolts from 1 side of the truck using a 19mm. [FIGURE 2]
- 4. Slowly lower the axle, being careful to not overextend brake or ABS lines.

5. Remove the bolt from the front frame pocket using a 19mm. [FIGURE 3]





FIG.4

- 6. Remove the upper and lower nut from the spring shackle using a 19mm. [FIGURE 4]
- 7. Remove bolt connecting the shackle to the frame.

FIG.3

FIG.A

- 8. Lift the shackle and leaf pack out of the pocket of the frame.
- **9**. Lift the factory spring and shackle out, being careful to not damage brake lines, hoses, and ABS lines. 2 people are recommended as the leaf springs are heavy.

#### IF ADJUSTING THE RXT SPRING CONFIGURATION:

A. Remove the front clip bolts and rear clip using a 17mm. [FIGURE A]





FIG.B

- B. Clamp the pack on both sides of the center pin. [FIGURE B]
- C. Use locking pliers to hold the head of the center pin and remove the nut using a 9/16".
- D. Carefully release the clamps from the spring pack. Use caution as the spring may still be under tension.
- E. Remove the top 2 springs of the pack. [FIGURE C]



FIG.C

F. Configure the spring pack as desired from the available options (refer to tech notes).

OPTION #1 - THE SPRING IS SHIPPED AT THIS SETTING (LIGHTEST SPRING RATE).

OPTION #2 - REPLACE THE 3RD SPRING (COUNTING FROM THE TOP DOWN) WITH THE ADDITIONAL LEAF. ENSURE THAT THE LONGER SIDE OF THE LEAF IS ORIENTED TOWARDS THE FRONT OF THE VEHICLE.

OPTION #3 - PLACE THE ADD-A-LEAF BETWEEN THE 2ND AND 3RD SPRING (COUNTING FROM THE TOP DOWN). DO NOT REMOVE LEAF FROM SPRING PACK. ENSURE THAT THE LONGER SIDE OF THE LEAF IS ORIENTED TOWARDS THE FRONT OF THE VEHICLE.

- G. Ensure that there is a liner installed between each leaf.
- **H**. With the top 2 leafs in place, slide the center pin through the pack and clamp together using clamps on both sides of the center pin. After the center pin is placed through the whole pack, install the nut using a 9/16". [Torque to 15 ft-lbs]
- I. Install the appropriate clips for the configuration. Longer clips are provided for additional pack thickness. Tighten on half turn past snug using a 17mm.
- 10. Before lifting the RXT spring pack into place, loosely install the shackle on the spring with the factory bolt and nut. Ensure that the bolt is facing away from the fuel tank. The head of the bolt should be closest to the frame and the nut furthest away, failure to mount in this orientation will cause fuel tank gouging.
- 11. Loosely install the spring and shackle into the frame pockets using the factory hardware. Lift the axle to guide the center pin into the locating hole in the spring pad on the axle housing.
- 12. Place the factory bump stop (or ICON striker plate) on top of the spring.
- 13. Install the U-bolts and tighten (do not torque to spec yet).
- 14. Install shocks and wheels then lower the vehicle on the ground. [Torque to factory spec]
- 15. Torque leaf spring pivot bolts to factory spec using a 19mm.
- 16. Torque lower shock bolts to factory spec using a 17mm.
- 17. Torque U-bolts to 75 ft-lbs using a 7/8".

FIG.5

18. Check parking brake cable for clearance on the spring clip. If it is making contact with the spring clip, bend the bracket on the front spring pocket. [FIGURE 5 & 6]





FIG.6

NOTE: If the metal sleeve on the parking brake cable comes into contact with the shock as the suspension compresses, carefully remove (cut) sleeve from the parking brake cable. [FIGURE 7]







# 2005-UP TOYOTA TACOMA RXT MULTI-RATE LEAF SPRING

# OPTION

INSTALL SPRING IN ORIGINAL
CONFIGURATION, LEAVING
ADDITIONAL LEAF OUT

LIFT HEIGHT OVER STOCK:

1.875"

(UNLOADED)

# AS SHIPPED



# OPTION 2

REPLACE THE 3RD SPRING IN THE PACK WITH THE ADDITIONAL LEAF PROVIDED IN KIT

LIFT HEIGHT OVER STOCK:

2.25"

(UNLOADED)

1.75"

(200LB LOAD)

# LEAF REPLACEMENT



# OPTION 3

ADD THE ADDITIONAL LEAF PROVIDED TO THE PACK, IN BETWEEN THE 2ND AND 3RD SPRING

LIFT HEIGHT OVER STOCK:

2.625"

(UNLOADED)

1.125"

(600LB LOAD)

## LEAF ADDITION





4-6-2020 REV.A



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PART #	DESCRIPTION
158509	07-UP TUNDRA MULTI-RATE RXT LEAF SPRING

# COMPONENTS INCLUDED (2) 158509 07+ TUNDRA RXT LEAF PACK W/ ADD IN LEAF HARDWARE INCLUDED N/A TOOLS REQUIRED JACK JACK STANDS TORQUE WRENCH 12MM SOCKET / WRENCH 17MM SOCKET / WRENCH 17MM SOCKET / WRENCH 19MM SOCKET / WRENCH

OPTION #1 - THE SPRING IS SHIPPED AT THIS SETTING (LIGHTEST SPRING RATE).

OPTION #2 - REPLACE THE 3RD SPRING (COUNTING FROM THE TOP DOWN) WITH THE ADDITIONAL LEAF.

OPTION #3 - PLACE THE ADDITIONAL LEAF BETWEEN THE 2ND AND 3RD SPRING (COUNTING FROM THE TOP DOWN). DO NOT REMOVE LEAF FROM SPRING PACK.

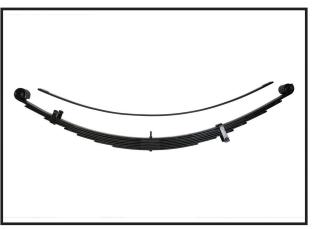
ICON'S MEASURED SPECS FROM THE TEST TRUCK (2016 4WD CREW CAB TUNDRA):

OPTION #1 - LIFT HEIGHT OVER STOCK: + 1.75" (UNLOADED)

(RECOMMENDED FOR CONSTANT LOAD UP TO 250LBS)

OPTION #2 - LIFT HEIGHT OVER STOCK + 3.00" (UNLOADED)
(RECOMMENDED FOR CONSTANT LOAD UP TO 500LBS)

OPTION #3 - LIFT HEIGHT OVER STOCK: + 4.00" (UNLOADED)
(RECOMMENDED FOR CONSTANT LOAD UP TO 750LBS)



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#### INSTALLATION

- 1. Using a properly rated jack, raise the rear of the vehicle and support the frame rails with jack stands. Ensure the jack stands are secure and set properly before lowering the jack. NEVER WORK UNDER AN UNSUPPORTED VEHICLE. Remove the rear wheels.
- 2. Remove the lower shock bolt using (2) 19mm.
- 3. Disconnect the parking brake bracket from the axle using a 12mm.
- 4. Support the axle using the floor jack. Remove the U-bolts from one side of the truck using a 19mm.
- 5. Slowly lower the axle being careful to not overextend brake lines or ABS wires.
- 6. Remove the pivot bolt from the front frame mount using (2) 19mm. [FIGURE 1]



FIG.1

7. Remove the upper and lower nut from the spring shackle using a 19mm.

8. Remove the shackle plate from the nut side of the shackle. [FIGURE 2]



FIG.2

9. Remove the shackle from the inside of the frame rail. This may require removal of the spare tire.

10. Lift the factory spring out being careful to not damage brake lines, hoses, and ABS wires. Two people are recommended, as leaf springs are very heavy.

#### If adjusting the RXT spring configuration:

FIG.A

A. Remove the front clip bolts and rear clip using a 9/16". [FIGURE A]



FIG.B

- B. Clamp the pack on both sides of the center pin. [FIGURE B]
- C. Use locking pliers to hold the head of the center pin and remove the nut using a 9/16".
- D. Carefully release the clamps from the spring pack. Use caution, as the pack may still have tension upon release.
- E. Remove the top two leafs from the spring pack. [FIGURE C]



FIG.C

- F. Configure the spring pack as desired from the available options.
- **G**. You can either replace the 3rd leaf (counting from the leaf down) with the additional leaf, or add the additional leaf between spring #2 and #3.
- Option #1: Standard (as shipped) = 30% reduced ride rate from stock. (+1.75" over stock unloaded)
- Option #2: Additional leaf #3 = 20% over standard ICON configuration. (+3.00" over stock unloaded)
- Option #3: Standard + Additional leaf = 40% over standard ICON configuration. (+4.00" over stock unloaded)
- Option #1: Recommended for constant loads up to 250lbs.
- Option #2: Recommended for constant loads from 250-500lbs. (+250lbs = 2.00" lift | +500lbs = 1.35" lift)
- Option #3: Recommended for constant loads from 500-750lbs. (+750lbs = 1.50" lift)
- **H**. Be sure there is a liner between each leaf.

*I*. Slide the center pin through the pack and clamp together using clamps on both sides of the center pin. Once the center pin is through the whole pack, start the nut. [Torque to 15 ft-lbs]

- J. Install the appropriate clips for the configuration. Longer clips are provided for additional pack thickness.
- 11. Lift the RXT spring pack into place. Loosely install the shackle, shackle plate, and nuts. Do not tighten.
- 12. Mount the spring in the front frame pocket using the factory bolt and nut. Do not tighten. Lift the axle and guide the center pin into the location hole in the spring pad on the axle tube.
- 13. Place the factory bump stop or ICON striker plate on top of the spring. The center pin may need to be trimmed. [FIGURE 3]





FIG.4

14. Install the U-bolts and tighten. [FIGURE 4]

FIG.3

FIG.5

- 15. Connect the parking brake brackets to the axle using a 12mm and the factory bolt.
- **16.** If the rubber brake lines are too tight at full droop, the brake line bracket (on top of the rear differential) can be hand formed upwards for some extra clearance.
- 17. Install shocks and wheels and set the vehicle on the ground.
- 18. Torque shackle nuts and front spring bolt to factory spec. [FIGURE 5 & 6]





FIG.6

19. Torque U-bolts to 75ft-lbs.



# 2007-2017 TOYOTA TUNDRA RXT MULTI-RATE LEAF SPRING

# OPTION

INSTALL SPRING IN ORIGINAL CONFIGURATION, LEAVING ADDITIONAL LEAF OUT

LIFT HEIGHT OVER STOCK:

1.75"

(UNLOADED)

IMAGE SHOWN WITH NO WEIGHT IN BED

## AS SHIPPED



## OPTION 2

REPLACE THE 3RD SPRING IN THE PACK WITH THE ADDITIONAL LEAF PROVIDED IN KIT

LIFT HEIGHT OVER STOCK:

3.00"

(UNLOADED)

**2.** □ □ "
(250LB LOAD)

IMAGE SHOWN WITH 250LB LOAD IN BED

# LEAF REPLACEMENT



## OPTION 3

ADD THE ADDITIONAL LEAF PROVIDED TO THE PACK, IN BETWEEN THE 2ND AND 3RD SPRING

LIFT HEIGHT OVER STOCK:
4.00"

(UNLOADED)

1.50" (750LB LOAD)

IMAGE SHOWN WITH 750LB LOAD IN BED

## **LEAF ADDITION**

