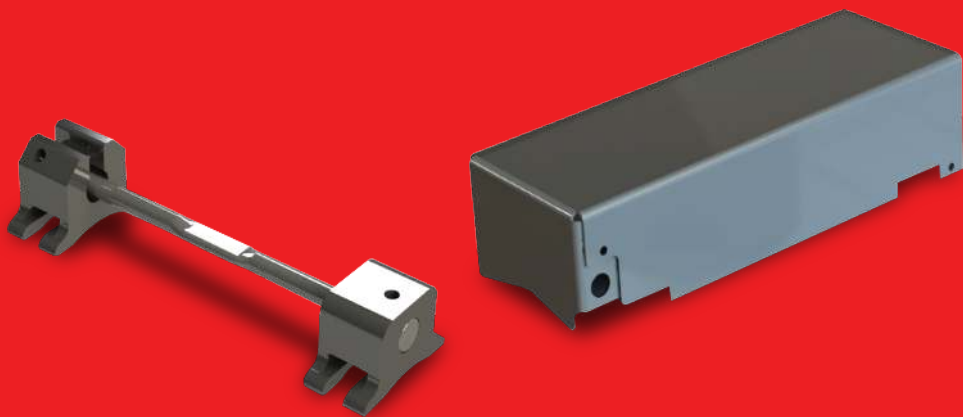




# Installation Manual



## STRAIN SENSOR KIT - EPOXY

FOR ROUND AXLES | 221-SK-AU

Thank you for choosing to drive more and scale less! Here at Right Weigh, we are committed to making our products simple to install and easy to use. We understand that installation can vary between vehicles and yours may not be described in this manual. In any event, our technical support team is ready to answer your questions!



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## IMPORTANT!

Please read instructions **COMPLETELY** and thoroughly before installation. Right Weigh, Inc. is not responsible or liable for product failure or vehicle damage due to improper installation. The installation requirements are outlined in this manual and should be followed thoroughly to avoid inaccuracy or damage to the product.

It is also important to be aware of vehicle manufacturer policies before making modifications to the vehicle. Right Weigh, Inc. is not liable or responsible for issues regarding warranties with other manufacturers. This is the responsibility of the customer. If you are unsure about how these installation practices apply to your vehicle, please contact your vehicle or component manufacturer.

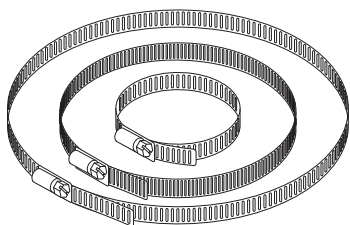
## FOLLOW US!



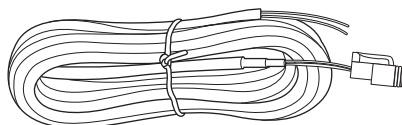


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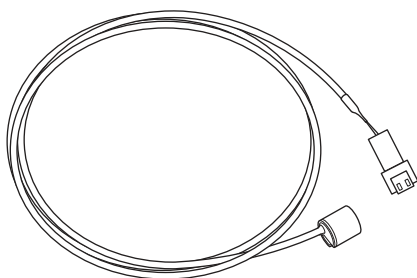
# PARTS INCLUDED



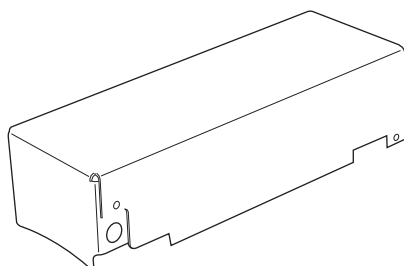
5 x Worm Drive Hose Clamps  
(1 large, 3 medium, 1 small)



Extension Cable (25')



Pick-Up Coil  
RW #EL-004-0054



Metal Cover  
RW #HW-010-0041



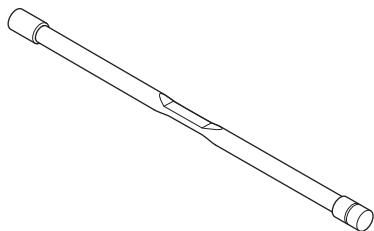
Loop Clamp



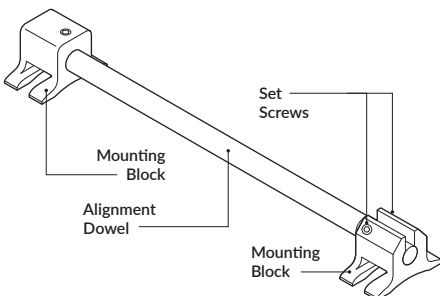
Bolt



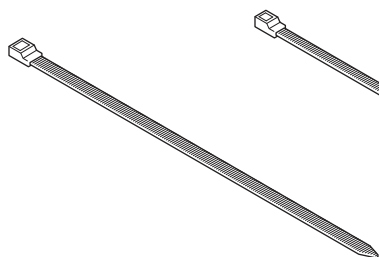
Washer



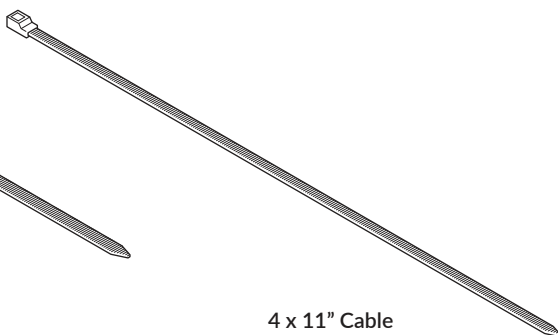
**Tension Bar**  
RW #EL-001-0002



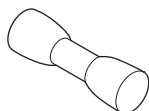
**Welding Jig Assembly**



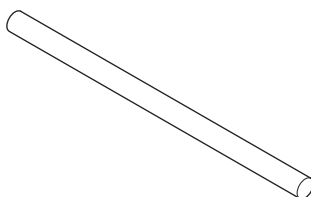
**15 x 7"**  
Cable Ties



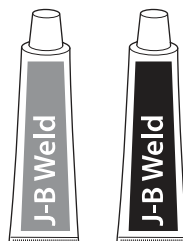
**4 x 11"** Cable  
Ties



**4 x Butt**  
Connectors

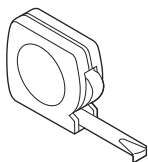


**2 x Heat**  
Shrink

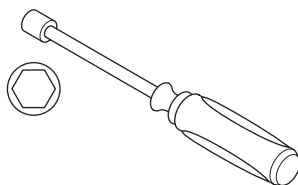


**J-B Weld**

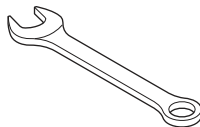
# TOOLS REQUIRED



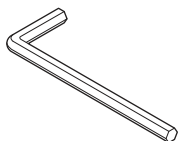
**Tape Measure**



**Nut Drivers  
(1/4" and 5/16")**



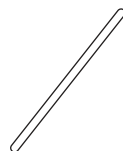
**11mm Wrench**



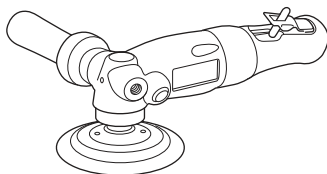
**Allen Wrench  
(1/8")**



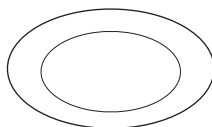
**Marker**



**Stirring Stick  
for Epoxy**



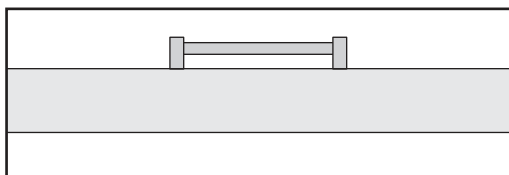
**Angle Grinder  
or Sander**



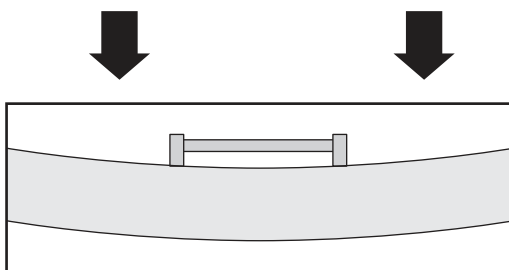
**Paper Plate**

The sensor is mounted so that it bends along with the axle when weight is applied or taken off. As the load increases, the sensor will detect the strain in the axles. This strain is then measured and converted to weight by the Right Weigh gauge after calibration.

## EMPTY



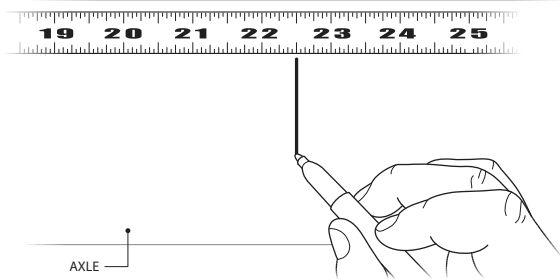
## LOADED



The tension bar is a wear item, whose life span depends on environmental conditions and severity of use. Replacement of this part is included with your 3 year warranty, after which time it can be purchased separately.

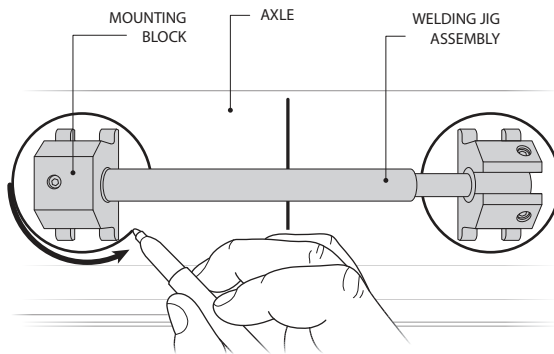
## 1 FIND THE CENTER OF THE AXLE

Use the tape measure to find the center of the axle and mark location with a marker.



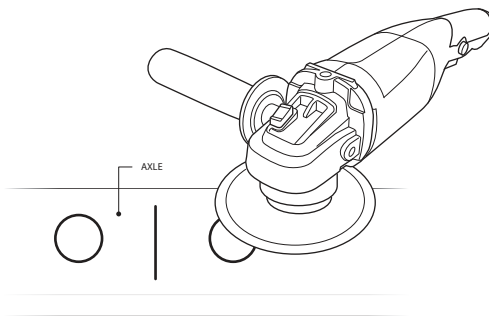
## 2 PLACE EPOXY JIG ON AXLE

Place the Epoxy Jig Assembly on the axle so that it is centered over the line. Draw circles around where the mounting blocks will be located. Remove from axle.



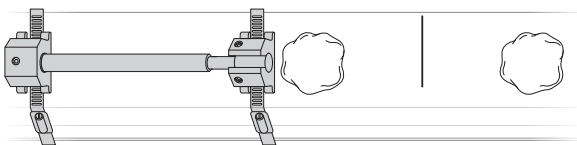
## 3 CLEAN EPOXY AREAS

Use the angle grinder or sander to clean the metal in the circles to be epoxied. Make sure the area is free of paint, dirt, rust, and any other debris



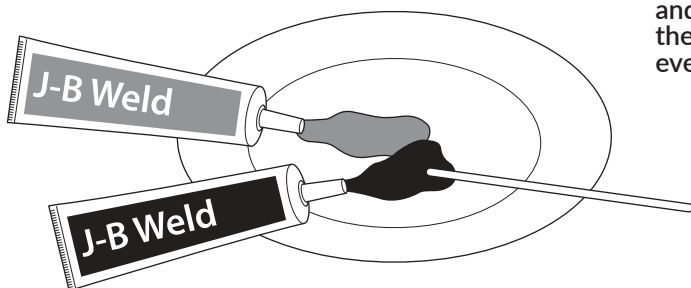


4

**PLACE EPOXY JIG BACK ON AXLE**

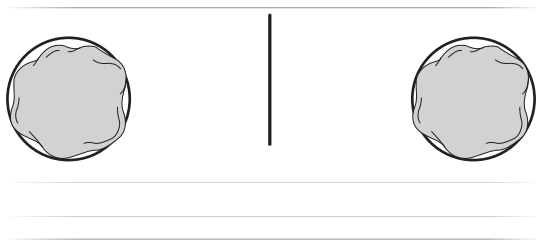
Place Epoxy Jig back on the axle and take 2 medium hose clamps and wrap them through the epoxy blocks and around the axle loosely.

5

**MIX EPOXY**

Take the J-B weld and stick to mix the two together evenly

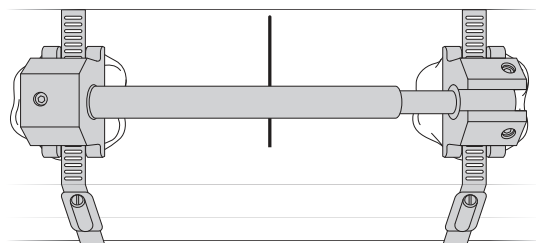
## 6 SPREAD OVER AXLE



Liberally spread the epoxy over where the mounting block will be placed.

## 7 PLACE BLOCKS OVER EPOXY AREAS

Move the mounting blocks over the epoxy areas. Tighten down hose clamps using the nut driver

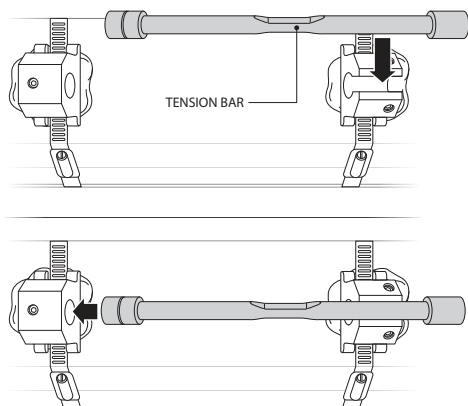


## 8 WAIT 24 HOURS FOR EPOXY TO CURE



Don't drive truck a significant amount during this time to avoid block movement

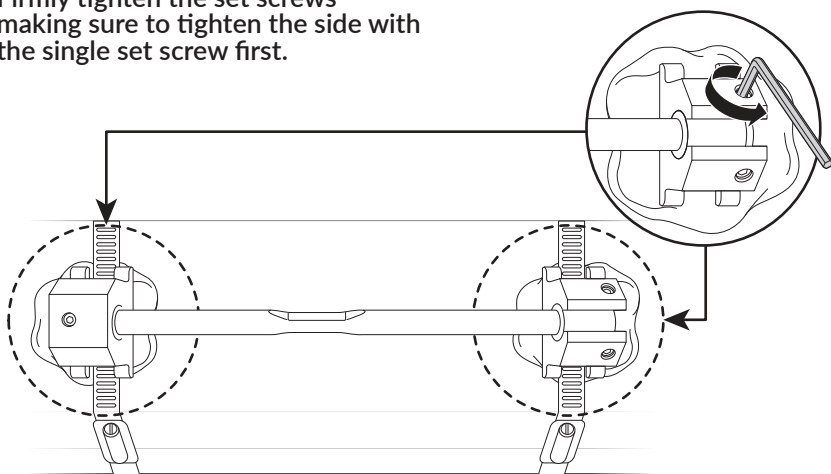
## 9 INSTALL TENSION BAR



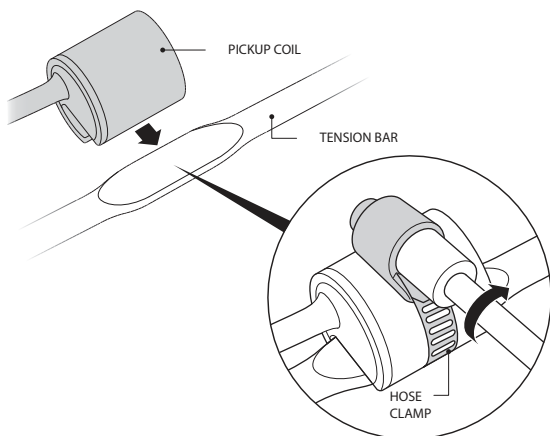
Carefully install the tension bar into the blocks so that the grooved side is in the block with only one set screw.

## 10 TIGHTEN DOWN SET SCREWS

Firmly tighten the set screws making sure to tighten the side with the single set screw first.

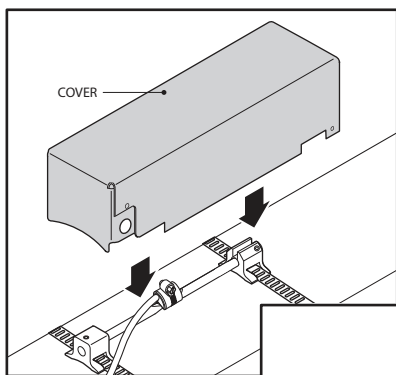


## 11 INSERT AND CLAMP PICKUP COIL

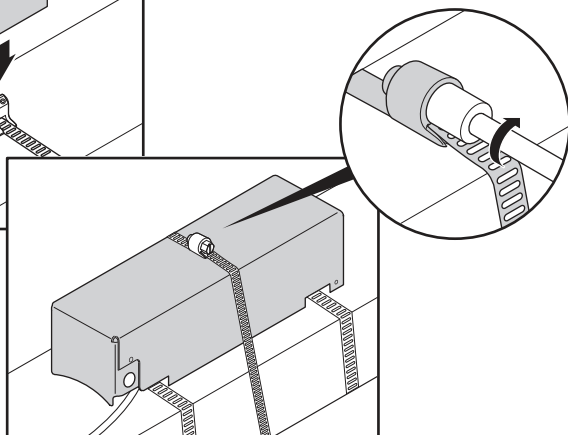


Install pickup coil over the tension bar so that the cable points in desired direction on the axle. Tighten using small hose clamp and nut driver.

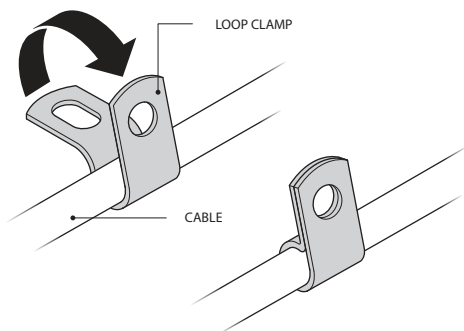
## 12 PLACE COVER OVER TENSION BAR ASSEMBLY



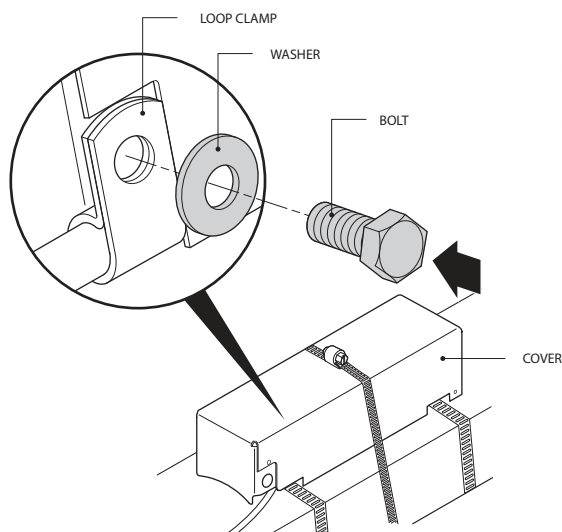
Center the cover over the assembly and tighten down using large hose clamp.



## 13 PLACE LOOP CLAMP OVER CABLE



Bend the loop clamp over the cable about 4" from the pickup coil.



Tighten to the cover using the bolt and washer and the wrench.

## 14 ROUTE CABLE TO GAUGE

See gauge instruction manual for further details.

Right Weigh is committed to providing quality products that function as intended, and we always stand behind our workmanship. Our industry leading warranty is our best effort to express this commitment. Products manufactured or sold by Right Weigh, Inc. are warranted to be free from significant defects in material and workmanship 3 years from date of purchase. During this time, and within the boundaries set forth in this warranty statement, Right Weigh, Inc. will, at its sole discretion, correct the product problem or replace the product.

This warranty shall not apply to product problems resulting from: (1) Improper application, installation, incorrect wiring, or operation outside of the approved specifications of the product. (2) Accidents, faulty suspension parts or power surges (3) Inadequate maintenance or preparation by the buyer or user (4) Abuse, misuse, or unauthorized modification. (5) Acts of God, lightning strike, floods, fire, earthquake, etc.

Right Weigh, Inc. assumes no responsibility or liability for any loss or damages resulting from use of Right Weigh, Inc. products.

In no event shall Right Weigh, Inc. be liable for direct, indirect, special, incidental or consequential damages (including loss of profits or loss of time) resulting from the performance of a Right Weigh, Inc. product. In all cases, Right Weigh, Inc. liability will be limited to the original cost of the product in question. Right Weigh, Inc. reserves the right to make improvements in design, construction, and appearance of products without notice.

## Return Policy and Authorization

Before returning any product, please obtain a Return Merchandise Authorization number (RMA#) by calling Customer Service at 503-628-0838 or e-mailing [support@rwls.com](mailto:support@rwls.com). Include the RMA# and information regarding the reason for the return with the returned product. Shipping costs for returns must be prepaid by the customer. For your protection, items must be carefully packed to prevent damage in shipment and insured against possible damage or loss. Right Weigh, Inc. will not be responsible for damage resulting from careless or insufficient packing or loss in transit.

An RMA# must be obtained by the original purchaser before any product can be returned. Only new, unused products may be returned. Installed, used, damaged, modified or customized products can not be returned for credit. Credit will be issued to the original purchaser after evaluation by Right Weigh, Inc.

## Repairs/Replacements

An RMA# must be obtained before any product can be returned. Right Weigh, Inc. will evaluate returned products at no charge. If Right Weigh, Inc. determines that the returned product is under warranty it will repair the product or parts thereof at no charge, or if unrepairable, replace it with the same or functionally equivalent product whenever possible. Right Weigh, Inc. will return the product at its expense via a shipping method (carrier to be at sole discretion of Right Weigh, Inc.) equal to or faster than the method used by the customer. Products or parts thereof not covered by warranty will be repaired or replaced at customer expense upon authorization by the customer. Right Weigh, Inc. will return the repaired product at customer expense via a shipping method (carrier to be at sole discretion of Right Weigh, Inc.) equal to or faster than the method used by the customer.

For additional support contact:

Smart Truck Solutions

+61 418 622840

[rightweigh.com.au](http://rightweigh.com.au)



Right Weigh, Inc.  
Hillsboro, Oregon USA

PP-003-0043-AU Revision B

February 2020

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