



*The Science of Winning*

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## **Race Tech Shock Owner's Manual**

<IP 15-00-05new.doc> 6-1-06 © Race Tech

**Part Number: 15-00-05, 15-00-06**

**Description: Rear Shock 264L 57T, Remote Reservoir with Compression Adjustment**



This shock absorber fits:

2002-2006 Kawasaki KLX 110, Suzuki DR-Z 110

### **Warning!**

Race Tech cannot be held responsible for any damage to shock, vehicle or person if the installation is not followed precisely, furthermore, all warranties will become null and void.

Installation of a shock, not approved by OEM may affect the stability of your vehicle. Race Tech cannot be held responsible for any damage to shock, vehicle or person, which may occur after fitting the shock.

Please understand fully the installation instructions before attempting the modification. If you have any questions regarding installation, please call Race Tech and ask for the Service Department.

Race Tech is determined to improve the quality of our products. Component revisions and changes may be made that conflict with these instructions. Please let us know if there are any discrepancies.

# Installation Instructions

Follow these instructions to insure proper installation. If you have questions please call Race Tech Technical Support.

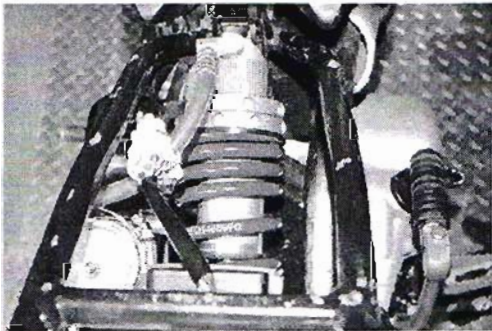
## Tools:

8 & 14 mm T-handles (P/N: TTHS 03 T-Handle Tool Set)  
14 mm Wrench (P/N: TDRA 67697 Draper Combination Wrench)  
Torque Wrench (P/N: TDRA 25934 Draper Torque Wrench)  
Preload Adjuster Tool (included with kit)  
Optional: ¼ " Punch (to align bolt holes)

**Warning!** Do not use a hammer to install the bolts. Use a tapered pin to lineup the bolt holes while using the wheel for leverage. If the holes still do not lineup, the swingarm or frame mount may be bent. In this case have an authorized OEM technician inspect the frame for damage and repairs.

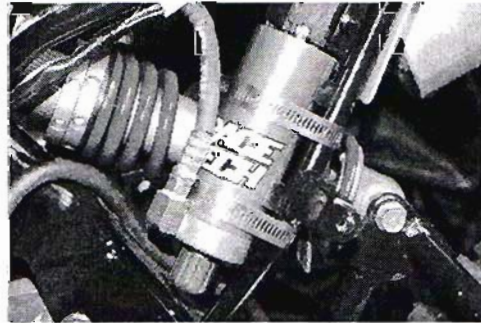
## INSTALL:

- 1) Remove of the side panels, seat, gas tank and stock shock absorber.
- 2) Insert the reservoir through the rear of the sub-frame and out the left side for mounting as illustrated.



- 3) Push down on the rear tire for clearance and slide the shock in. Do not insert the upper bolt yet. Position the body so the reservoir hose comes out of the top.
- 4) Raise the rear tire until the lower shock mount holes line up with holes in the swingarm. Install the lower bolt.
- 5) Pull up on the rear wheel to slide the upper shock eyelet into the frame. Install the upper bolt.

- 6) Place the Reservoir on the left upper sub-frame tube with the compression adjuster down and the hose facing forwards.
- 7) Place a rubber mount on each side of the reservoir ¼ " away from the ends. Install the hose clamps just above each rubber mount.



- 8) Once in position tighten the hose clamps until 1/8" of clearance shows between the reservoir body and frame tube.
- 9) Tighten the upper and lower shock mount bolts to OEM specifications.
- 10) Compress the suspension. Adjust clearance of any place the hydraulic line or reservoir might wear.
- 11) Reinstall the tank, plastic and seat.
- 12) You are now ready to set the sag.

# Setting Sag

## Tools:

Measuring tape or Sag Master (P/N: TSSM 01)

Masking tape

Pen

## Note:

Keep in mind when measuring sag; **there is no magic number**. You may like the feel of the bike with different sag than these guidelines. As a rule, less Sag on the rear will make the bike stiffer and turn quicker. More Sag will be easier to bottom and add steering stability.

## Measuring Static (Race) Sag:

- 1) Put the bike on a stand. Measure from the axle vertically to a convenient point on the chassis. Use some masking tape to mark this point on your chassis.
- 2) Take the bike off the stand, put the rider on the bike, in full gear, standing on the pegs, not sitting on the seat. Have the rider grab onto something for balance. Again, measure from the axle to the marked point on the chassis. Subtract the two measurements; this is your Static Sag.

Bike Type	Front	Rear
Dirt Mini's	40-65 mm	55-75 mm

Note: This is a basic version of Sag Measurement. If you want the advanced method see the instructions that come with the Sag Master.

# Compression and Rebound Damping

## External Compression Adjuster

This compression adjuster has a wide range and is the easiest way to make the shock stiffer or softer. To adjust, turn the knob all the way in (clockwise) until it gently stops. **Never force the knob!** Then, turn out (counter clockwise) until you feel the first "click" this is click #1. The actual useable range is the first 15 clicks. More than that makes a very small difference.

### Standard Setting:

- 10 clicks out

### Adjustment:

- In (Clockwise - looking from the knob end) makes the compression damping stiffer with more bottoming resistance.
- Out (Counterclockwise) makes the compression damping softer and plusher.

## Internal Compression Damping Revalve

If your compression adjuster does not create the damping you need (i.e. your best setting is on full stiff or softer than 20 clicks out), the valving can be changed internally. Call the Race Tech Service Department for assistance.

## Internal Rebound Damping Revalve

This shock does not have an external rebound adjuster. If the stock setting does not provide the damping you need, the valving can be changed internally. Call the Race Tech Service Department for assistance.

# Maintenance

Maintaining your shock on a regular schedule is important to ensure a long life for your product. This shock is designed to handle the most extreme conditions, however, lack of maintenance can turn normal wear into a major problem. Follow these guidelines.

## After Each Ride:

- Wash off shock after each use. **Do not use high-pressure water or air directly on the shaft seal and eyelets.**
- Dry off components.
- Bounce on seat to compress shock several times then examine hoses and seals for leaks.
- Examine the spring for nicks in the paint. Use touch up if metal is exposed. Rust is the #1 reason for spring failure.
- Examine the shock shaft for scratches, pits and dings. These will cause seal failure and should be repaired immediately.
- Examine the shock body and reservoir body for dents or large dings. It is likely the piston will bind causing severe damage to the shock. Do not ride the shock in this condition. Send it immediately to the Race Tech Service Department.
- Check the hydraulic line and reservoir for proper placement. There should be no visible signs of wear on these components. Adjust and reinstall if necessary.
- Make sure the shock mounting bolts are tight.

## Maintenance Schedule:

- Break in inspection and oil change – 30 hours or 3 months riding.
- Seal and oil change with inspection – every 60 hours or 6 months riding.
- Eyelet bushings/seals – every 120 hours or 1 year of riding.

# Contact Information

If you have any questions please feel free to contact us.

## **Race Tech**

1501 Pomona Rd  
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951.279.6655

[www.racetech.com](http://www.racetech.com)

## **Two Brothers Racing**

401 South Grand Avenue  
Santa Ana, CA 92705  
800.211.2767

[www.twobros.com](http://www.twobros.com)

## **Warranty Policy**

Warranties are legal statements that determine the boundaries of and limit the liability of manufacturers toward their products. Race Tech Inc.'s obligation towards products under our warranty policies is limited to repair or replacement of the defective item(s). The consumer will be responsible for removal and reinstallation of the defective item(s) from and to the vehicle, and the transportation costs to and from Race Tech, Inc. The loss of use of the product, loss of time, inconvenience, commercial / industrial / business loss or consequential damages are not covered. Race Tech, Inc. reserves the right to change / adjust the design of any product without assuming any obligation to modify any product previously manufactured or sold.

## **Shock Absorber Six Month Limited Warranty**

Race Tech, Inc. warrants its *Mini-Bike Shock* absorbers to be free from defects in materials and workmanship to the original purchaser of the product(s) for a period of six (6) months from date of purchase. This warranty is limited to shock absorbers used under normal operating conditions and ordinary operational wear and tear. This warranty does not apply to shock absorbers which have been misused, altered, improperly installed, used in an improper application or used in conjunction with other devices not recommended or suited for the product(s). In order to receive this warranty offer you must send in your *Mini-Bike Shock* to Race Tech for a free service within six-months of purchase. Furthermore, Race Tech, Inc. does not warrant shock absorbers that are used in racing conditions or accidentally damaged, i.e., a bent shaft due to a crash or impact. This warranty applies only when Race Tech, Inc. *Mini-Bike Shock* installation instructions are followed precisely.

## **Warranty Return Policy**

Race Tech requires all *Mini-Bike Shocks* to be registered with Race Tech upon purchase including the Registration Number assigned to the product purchased to validate all *Mini-Bike Shock* warranty returns. This number must accompany your FREE Service and/or Returns. Defective item(s) must be returned complete (including springs and shock collars) along with a Dated Proof of Purchase, Return Address, Daytime Phone Number and a brief Explanation for the Return. Please explain in detail what is defective about the item(s) and how or why the product(s) became defective.

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**To validate your warranty you must register your *Mini-Bike Shock* with Race Tech. Please call Customer Service at 951.279.6655 or log onto [www.racetech.com](http://www.racetech.com) to complete your *Mini-Bike Shock* warranty registration.**

**The Race Tech *Mini-Bike Shock* comes with a 6-month unconditional warranty against defects in material and workmanship as long as you register with Race Tech within 2 weeks of purchase and send the *Mini-Bike Shock* for its FREE SERVICE within six months.**

## ***Shock Registration Number:***

### CUSTOMER INFORMATION REQUESTED FOR WARRANTY REGISTRATION:

Date of Purchase: \_\_\_\_\_

Purchased from: \_\_\_\_\_

Bike Model \_\_\_\_\_ Year \_\_\_\_\_

Item (s) Purchased: \_\_\_\_\_

I fully understand the terms of the Race Tech, Inc. *Mini-Bike Shock* warranty policy.

YES \_\_\_ NO \_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

Phone \_\_\_\_\_ Email address \_\_\_\_\_