Service Bulletin

RX1510 Screw Replacement and Torque Adjustment

Product Group:	Date Issued:	Service Bulletin No.
Walk-Behind Rollers	11/21/12	VR20121017

Bulletin Type

__X__ Mandatory

_____ Information Only

_____ Recommended Change

Models/Series Affected:

RX1510
S/N 60365 - 60388

Details

Problem:

Screws were not tightened to the correct torque during assembly and may cause damage to the vibration unit.

Solution:

Replace screws and tighten to the correct torque (24 Nm and 34 Nm).

Figure 1. Screw Replacement Kit

Item No.	Part No.	Description	QTY.	Remarks
1	J902350	Washer, Wave D8.4/13 x 0.8FST Galv.	34	
2		Screw, Hex M8 x 25 10.9 Black	16	
3	3-55681	Screw, Hex M8 x 22 8.8 yellow chr.	14	
4	J901766	Screw, Hex M8 x 35 8.8 Galv.	4	
5	1-907978	Adhesive (Loctite), ERGO-4100 50 g	1	Bottle
6		Special Wrench (Box Ratchet Wrench)	1	
7		Torque Wrench 24 Nm, set permanently	1	
8		Torque Wrench 34 Nm, set permanently	1	

ADDITIONAL TOOLS NEEDED

- Torque Wrench, up to 40 Nm
- Extension, 1/4" 13mm Socket

> ***NOTICE***
>
> Before proceeding, carefully read safety information in your roller operation manual.

GENERAL SAFETY INFORMATION

- Only perform maintenance and repair work on the roller when it is stationary, the engine is shut off, and the machine is secured against rolling away.
- Park the machine on level and firm ground.
- Remove the key from the ignition switch.
- Secure the roller with the joint protection.
- Relieve pressure before working on the hydraulic pipes.
- Disconnect the battery before starting work on the roller's electrical systems.
- Cover the battery with isolating material or remove it completely. This does not apply to work requiring an electric current.
- In the event of injuries caused by acid, rinse immediately with clean water and consult a doctor.
- Replace all protection devices properly after performing maintenance and repair work.

MACHINE PREPARATION

Figure 2. Machine Preparation

1. Make sure pin is securely in place at the joint between the two units (Figure 2).
2. Remove the four scrapers on the roller drums by removing 2 bolts, washers, nuts from each scraper with a 19 mm socket (Figure 3).

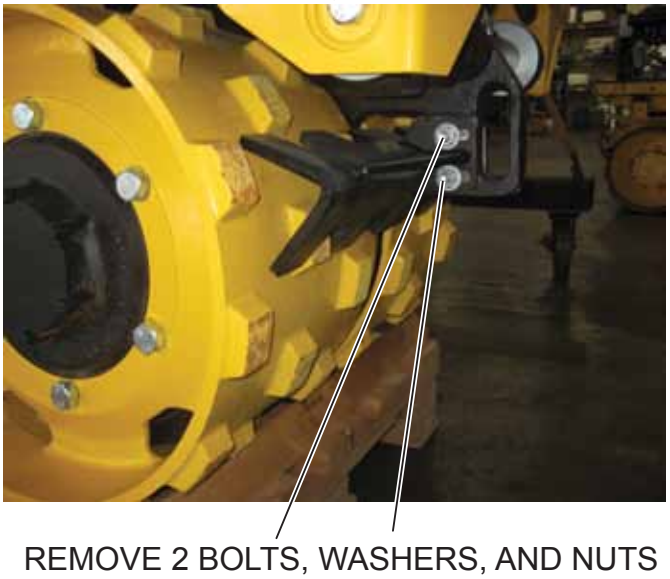

Figure 3. Scraper Removal

MACHINE SETUP

The replacement of the screws and torque adjustment can be performed with the roller lifted to an assembly support or on the floor using a hydraulic jack. Select your preferred setup and perform the corresponding procedure below.

Lifting Roller with Appropriate Lifting Device

1. Attach tackle to the central lifting point of the roller (Figure 2).
2. Lift the machine with a crane or other appropriate lifting device into an assembly support.

Lifting With Hydraulic Jack (Floor)

1. Drive one roller onto a board on the floor (Figure 4).

Figure 4. Roller on Board

2. Jack up the the chassis on the roller drum side with a hydraulic jack.

Figure 5. Hydraulic Jack

> ***NOTICE***
>
> When using the hydraulic jack, only one roller drum side can be worked on at a time.

ROLLER DRUM REMOVAL

1. Remove the six screws from each roller drum with a 27 mm socket (Figure 6).

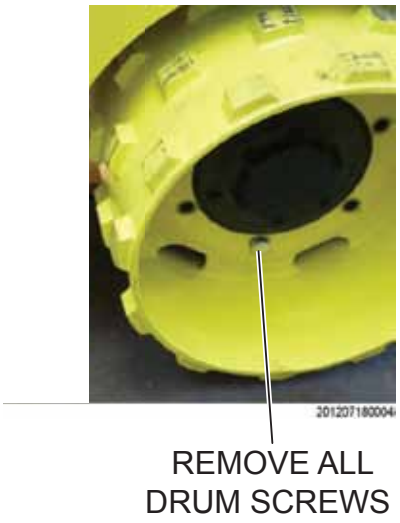

Figure 6. Removal of Roller Drum Screws

2. Remove all four roller drums.

FRONT AND REAR COVER REMOVAL

1. Remove the four screws on the rear cover with a 13 mm socket then remove rear cover (Figure 7).

Figure 7. Rear Cover Removal

2. Remove the four screws on the front cover with a 13 mm socket then remove front cover.

Figure 8. Front Cover Removal

SCREW REPLACEMENT/TORQUE ADJUSTMENT (FRONT AND REAR)

NOTICE

Before removing fittings, make sure a pan or suitable container is placed right under the fittings to catch any oil that will drip out once the fittings are removed.

1. On the front of the roller, it may be necessary to remove the fittings shown in Figure 9 to gain access to the screws that need to be replaced. This can be done by removing the four screws on each fitting with a #5 allen wrench. A small amount of oil will drip when the fittings are removed. Use plugs to stop the drip, if desired.

Figure 9. Fitting Removal

2. On the front of the roller, remove and discard the 7 screws (two M8 x 22 8.8 at the bottom and five M8 x35 8.8) and washers, marked with red arrows on Figure 10.

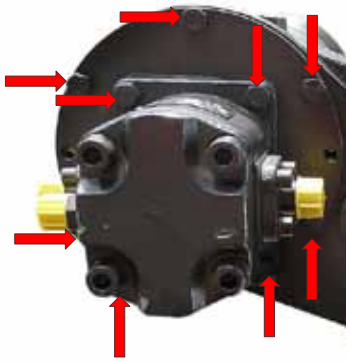

Figure 10. Screw Removal

3. Recut the thread using an M8 tap on the holes where the 7 screws were removed to clean any loctite residue, if possible.
4. Install washers into the new set of screws (two M8 x 22 8.8 and five M8 x35 8.8). Apply Loctite on the screws and screw in to replace the screws that were removed.
5. Tighten the screws with the 24 Nm torque wrench.
6. Tighten all the other 14 screws on the front with the 24 Nm torque wrench. See Figure 11 for location of screws, marked wth red arrows.

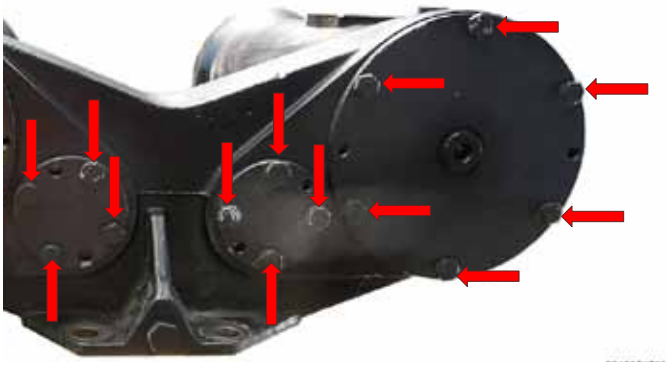

Figure 11. Front Screw Torque Adjustment

7. Reinstall the fittings that were removed and wipe any excess oil.
8. Repeat procedure for the back of the roller. It might not be necessary to remove the fittings at the back off to roller to gain access to the screws that need to be replaced.

SCREW REPLACEMENT/TORQUE ADJUSTMENT (VIBRATORY UNITS)

1. Tighten the 8 screws, marked by red arrows in Figure 12, on the rear vibratory unit with the 24Nm torque wrench.

Figure 12. Screw Torque Adjustment (Rear Vibratory Unit)

2. Remove and discard the 8 screws (M8 x 25 8.8) and washers, marked by red arrows in Figure 13, on the rear vibratory unit.

Figure 13. Screw Replacement (Rear Vibratory Unit)

3. Install washers on the 8 new screws (M8 x 25 10.9).
4. Apply loctite on the new screws and replace the 8 screws removed.
5. Tighten the new screws with the 35 Nm torque wrench.
6. Repeat the procedure for the front vibratory unit.

Warranty Information
Campaign Reference No. 20121017 Please contact Chris Fairchild or Wendy Sanchez @ 1-800-421-1244 for warranty claim number and warranty form. **Labor Allowance: Flat Rate to install – 3 Hours**

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HERE'S HOW TO GET HELP

PLEASE HAVE THE MODEL AND SERIAL NUMBER ON-HAND WHEN CALLING

UNITED STATES

Multiquip Corporate Office

18910 Wilmington Ave.
Carson, CA 90746
Contact: mq@multiquip.com

Tel. (800) 421-1244
Fax (310) 537-3927

MQ Parts Department

800-427-1244
310-537-3700

Fax: 800-672-7877
Fax: 310-637-3284

Service Department

800-421-1244
310-537-3700

Fax: 310-537-4259

Warranty Department

800-421-1244
310-537-3700

Fax: 310-943-2249

Technical Assistance

800-478-1244

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