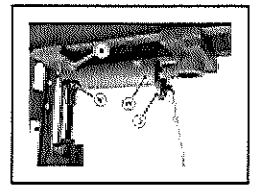


tm1970 - 8120, 82208320, 8420 and 8520 Tractors Repair - Disassemble and Assemble Suspension Cylinder

1.



RXA0055149-UN: Remove Rod Guide

LEGEND:

A - JDG1553-2 [Part of JDG1553 Bushing Tool Set] Installer (2 used)

B - Rod Guide-to-Cylinder Barrel Thread Area

C - JDG347A Spanner Wrench and JDG10784 Pin Set

Remove and Install Piston Rod Assembly: Remove suspension cylinder. (See Remove and Install Suspension Cylinder in this group.)

2.

IMPORTANT:

Using JDG1553-2 Installers will avoid possible damage to bushings.

NOTE:

JDG1553-2 is part of JDG1553 Self-Aligning Bushing Tool Set.

Place cylinder assembly in a press using two JDG1553-2 Installers (A) on barrel end rod eye. DO NOT apply clamping force to bushing.

3.

CAUTION:


Use extreme care when applying heat to ensure adequate ventilation. DO NOT exceed 150° C (300° F).

Inactivate retaining compound by heating thread area (B) of rod guide-to-cylinder barrel. (About 25 mm or 1 in. from barrel end.)

4. Remove rod guide using JDG347A Spanner Wrench and JDG10784 Pin Set (C).

Item	Measurement	Specification
Suspension Cylinder Bearing Eye-to-Piston Rod	Torque	400 N·m (295 lb-ft)

7. Install bearing eye to piston rod. Tighten to specification.
6. Apply PM37421 Thread Locker (High Strength) to bearing eye threads.
5. Clean threaded area of bearing eye and piston rod.
4. Remove bearing eye (C) from piston rod (D) using JDG1554 Piston Rod Wrench(E).
(About 25 mm or 1 in. from piston rod end.)

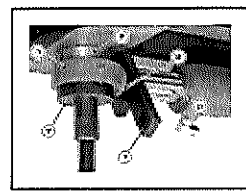
3. **CAUTION:**  *Use extreme care when applying heat to ensure adequate ventilation. DO NOT exceed 150° C (300° F).*

2. Pull piston rod out of cylinder assembly.
4. **Replace Bearing Eye:** Place cylinder assembly in a press using two JDG1553-2 Installers (A) on rod eye. DO NOT apply clamping force to bushing.

- A - JDG1553-2 [Part of JDG1553 Bushing Tool Set] Installer (2 used)
- B - Rod Eye-to-Rod Thread Area
- C - Bearing Eye
- D - Piston Rod
- E - JDG1554 Piston Rod Wrench

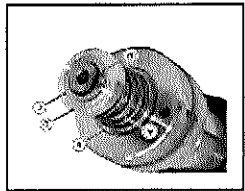
LEGEND:

RXA0055236-UN: Remove Bearing Eye from Piston Rod



1. **IMPORTANT:** *Using JDG1553-2 Installers will avoid possible damage to bushings.*

1.



RXA0055150-UN: Remove Piston and Piston Bushing

LEGEND:

A - Damping System Spring

B - Snap Ring

C - Washer

D - Spring Bushing

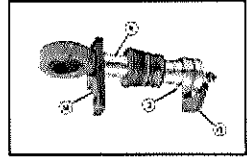
E - Spring Guide

Replace Cylinder Piston and Piston Bushing: Compress damping system spring (A),

remove snap ring (B), and washer (C).

2. Remove damping spring bushing (D), spring (A), and spring guide (E).

3.



RXA0055234-UN: Remove Damping Piston

LEGEND:

A - Piston Rod

B - JDG1554 Piston Rod Wrench

C - Damping Piston

D - JDG347A Spanner Wrench

Hold piston rod (A) using JDG1554 Piston Rod Wrench(B) and remove piston (C) from rod using JDG347A Spanner Wrench(D).

4. Clean piston and piston rod threaded area.

5. Apply PM37421 Thread Locker (High Strength) to piston threads.

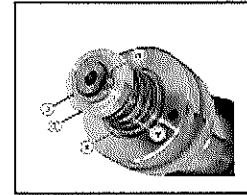
6. Install piston to piston rod. Tighten to specification.

2. Remove damping spring bushing (D), spring (A), and spring guide (E).
and washer (C).
Replace Damping Assembly: Compress damping system spring (A), remove snap ring (B),

- E - Spring Guide
D - Spring Bushing
C - Washer
B - Snap Ring
A - Damping System Spring

LEGEND:

RXA0055150-UN: Remove Piston and Piston Bushing



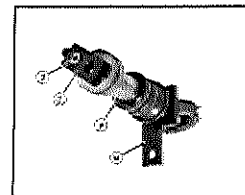
1.

Item	Measurement	Specification
Suspension Cylinder Rod Guide-to-Cylinder Barrel	Torque	200 N.m (145 lb-ft)

7. Assemble and install in reverse order.
8. Apply PM38656 Rigid Form-in-Place Gasket to rod guide threads.
9. Install rod guide to cylinder barrel. Tighten to specification.

Item	Measurement	Specification
Suspension Cylinder Piston-to-Piston Rod	Torque	750 N.m (553 lb-ft)

3.



RXA0055152-UN: Remove Damping Piston

LEGEND:

A - Piston Rod

B - JDG1554 Piston Rod Wrench

C - Damping Rod

D - JDG1555 Damping Rod Wrench

Hold piston rod (A) using JDG1554 Piston Rod Wrench(B) and remove damping rod (C) from piston rod using JDG1555 Damping Rod Wrench(D).

4. Clean threaded area of damping rod and piston rod.

5. Apply PM37421 Thread Locker (High Strength) to damping rod threads.

6. Install damping rod to piston rod. Tighten to specification.

Item	Measurement	Specification
Suspension Cylinder Damping Rod-to-Piston Rod	Torque	120 N.m (89 lb-ft)

7. Assemble and install in reverse order.

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