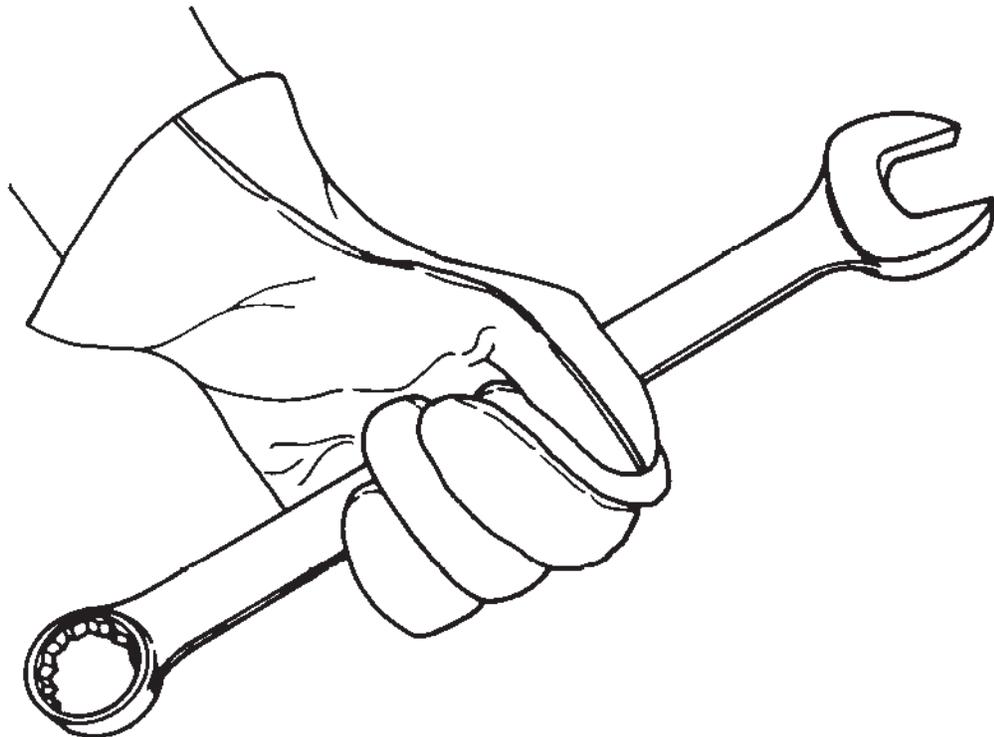




HYDRAULIC CYLINDERS

COMPONENT REPAIR MANUAL



Product: Bobcat Hydraulic Cylinders Service Repair Workshop Manual
Full Download: <https://www.arepairmanual.com/downloads/bobcat-hydraulic-cylinders-service-repair-workshop-manual/>

Sample of manual. Download All 24 pages at:
<https://www.arepairmanual.com/downloads/bobcat-hydraulic-cylinders-service-repair-workshop-manual/>

INTRODUCTION

Melroe recommends that all service technicians attend either field or factory Bobcat Service Workshops for necessary information and education.

Workshops are held many times a year at various locations throughout the U.S. and Canada. Contact your District Service Manager or Melroe Service Office Gwinner, N.D. (701) 678-6165 for schedule.

This Component Repair Manual provides the Service Technician with information for servicing Melroe Hydraulic Cylinders.

Refer to the SERVICE MANUAL for your MODEL Loader to troubleshoot, test, remove and install the hydraulic cylinders.

SAFETY INSTRUCTIONS

We Care About Your Safety.



! WARNING

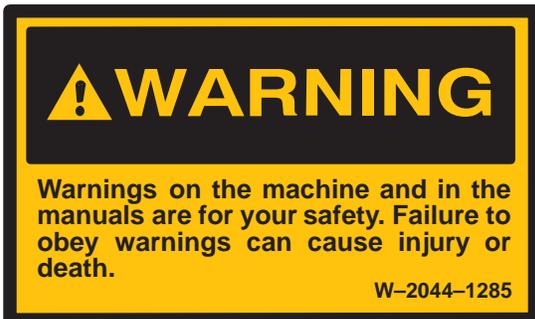
Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

W-2019-1285

BEFORE YOU WORK ON THE HYDRAULIC CYLINDER

Read the complete sequence so you know the complete disassembly or assembly procedure before the work is actually started.



! WARNING

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause injury or death.

W-2044-1285



IMPORTANT

This notice identifies procedures which must be followed to avoid damage to the machine.

I-2019-0284



HYDRAULIC CYLINDER

CYLINDER IDENTIFICATION

Tilt Cylinder Components On 753 & 853	7
Tilt Cylinder Components On 753 & 853	8
Tilt Cylinder Components 640 & 740 Series (Equipped With Cushion Sleeve)	6
Tilt Cylinder Components On 540, 640, *740 Series & 843) (*Not Equipped With Cushion Sleeve)	5
Tilt Cylinder Components On Farmboy, 440, 443	4
Lift Cylinder Components On All 40 Series	3

HYDRAULIC CYLINDER

Assembly	11
Cylinders With Cushioned Piston	14
Cylinders Without Cushioned Piston	15
Disassembly	9

HYDRAULIC CYLINDER SERVICE TOOLS

MEL1032 Or MEL1033 Rod Seal Tool	1
MEL1075 Adjustable Gland Nut Wrench	1
MEL1178 Seal Tool	2
MEL1076 Cylinder Wrench	2
MEL1074 O-ring Seal Hook	1
MEL1396 Seal Tool	1

TORQUE SPECIFICATIONS

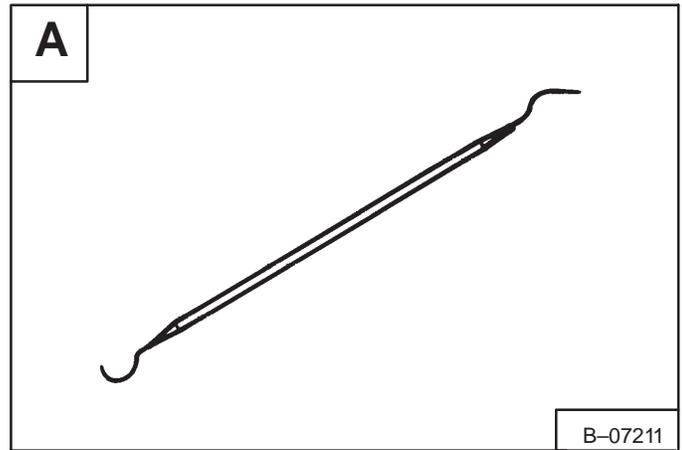
Aluminum Piston	17
Gray Iron Piston	17



HYDRAULIC CYLINDER SERVICE TOOLS

MEL1074 O-ring Seal Hooks

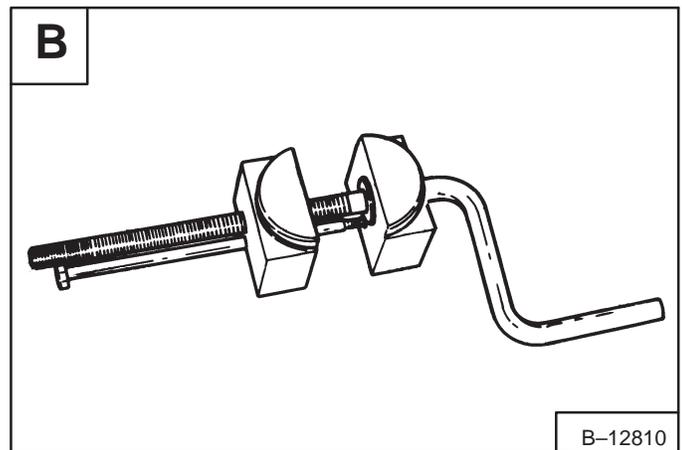
use this tool to remove the seals from the piston and the cylinder head [A].



MEL1396 Seal Installation Tool

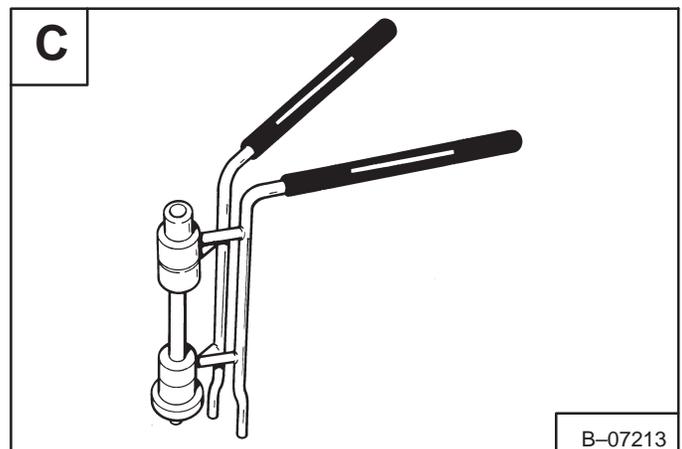
Use this tool to stretch the Teflon seals before installing seals on cylinder pistons [B].

Use ring compressor to compress the Teflon seal into the groove after installing it on the piston.



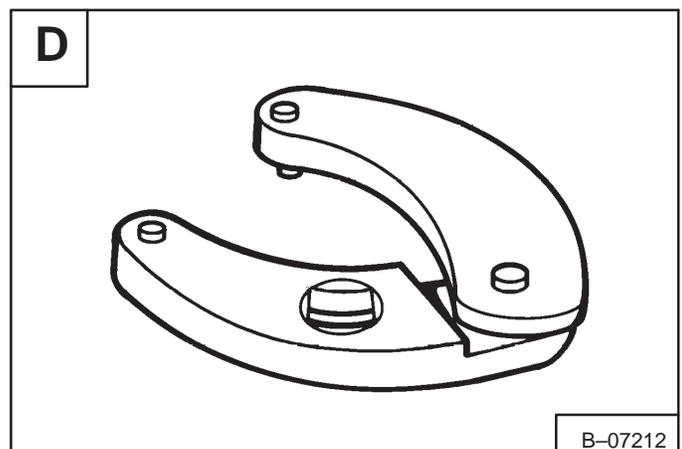
MEL1032 or MEL1033 Rod Seal Installation Tool

Use one of these tools to install internal seals in the cylinder head. Use Tool MEL1033 when servicing cylinders with rods 1-1/4" in diameter through 2" diameter [C].



MEL1075 Adjustable Gland Nut Wrench

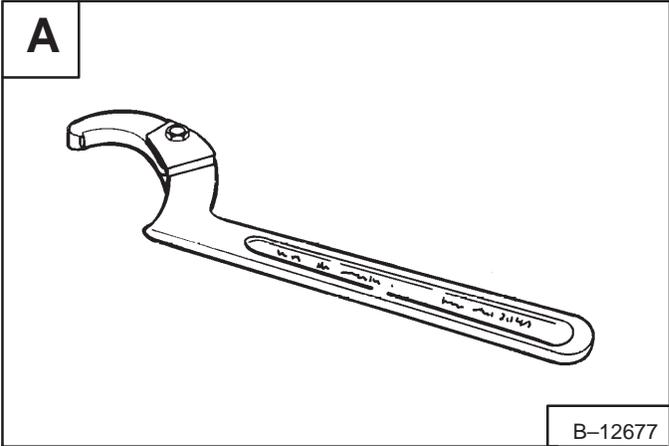
Use this tool with correct pins (Tool MEL1075-1 or MEL1075-2) for the cylinder head removal and installation [D].



HYDRAULIC CYLINDER SERVICE TOOLS (Cont'd)

MEL1076 Cylinder Wrench

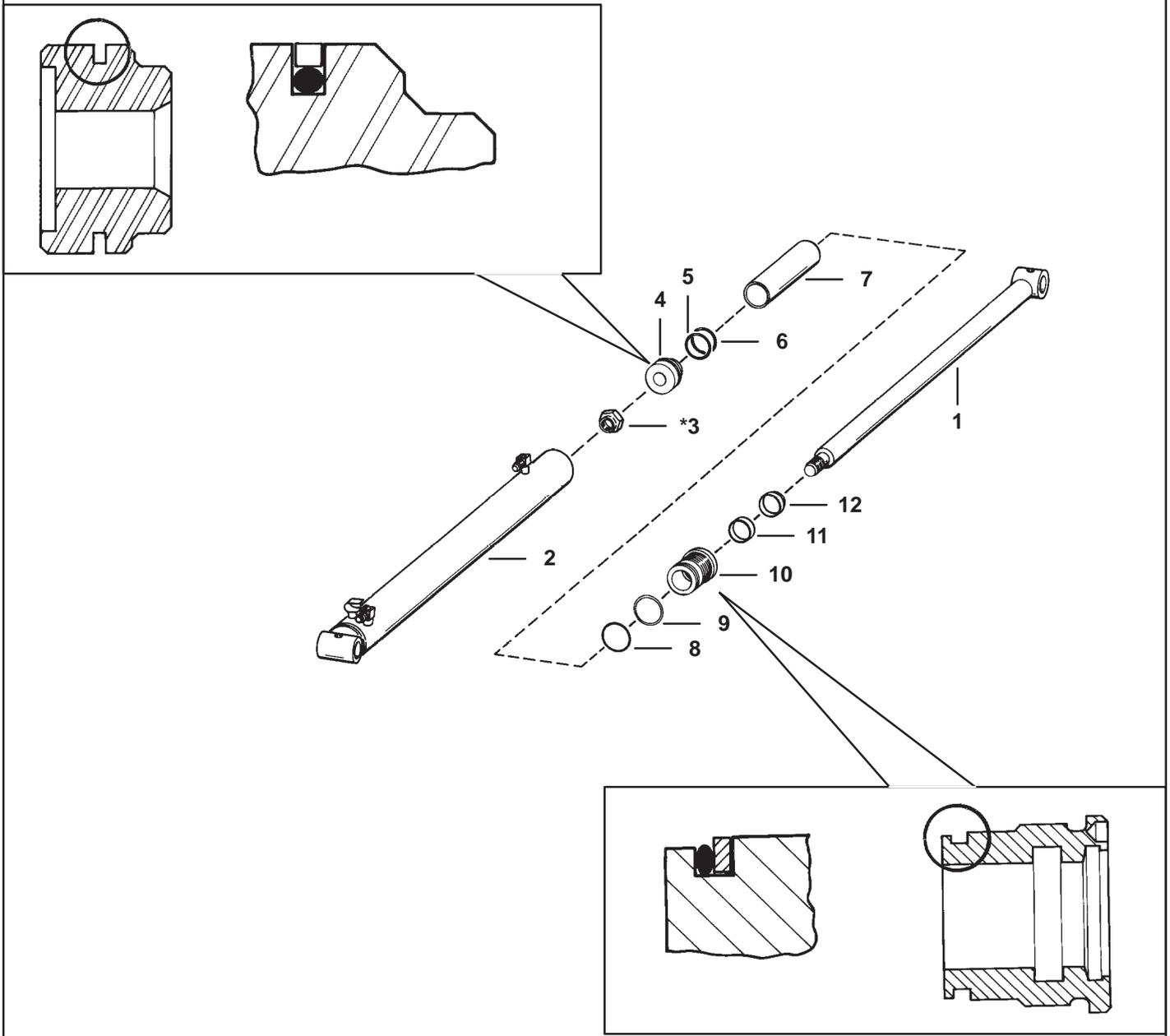
Use this tool to remove the end cap from the hydraulic cylinder [A].



CYLINDER IDENTIFICATION

Lift Cylinder Components on All 40 Series

- 1. Rod
- 2. Case
- 3. Nut
- 4. Piston
- 5. Piston Seal
- 6. O-ring
- 7. Spacer
- 8. O-ring
- 9. Back-Up Washer
- 10. Head
- 11. Rod Seal
- 12. Wiper Seal

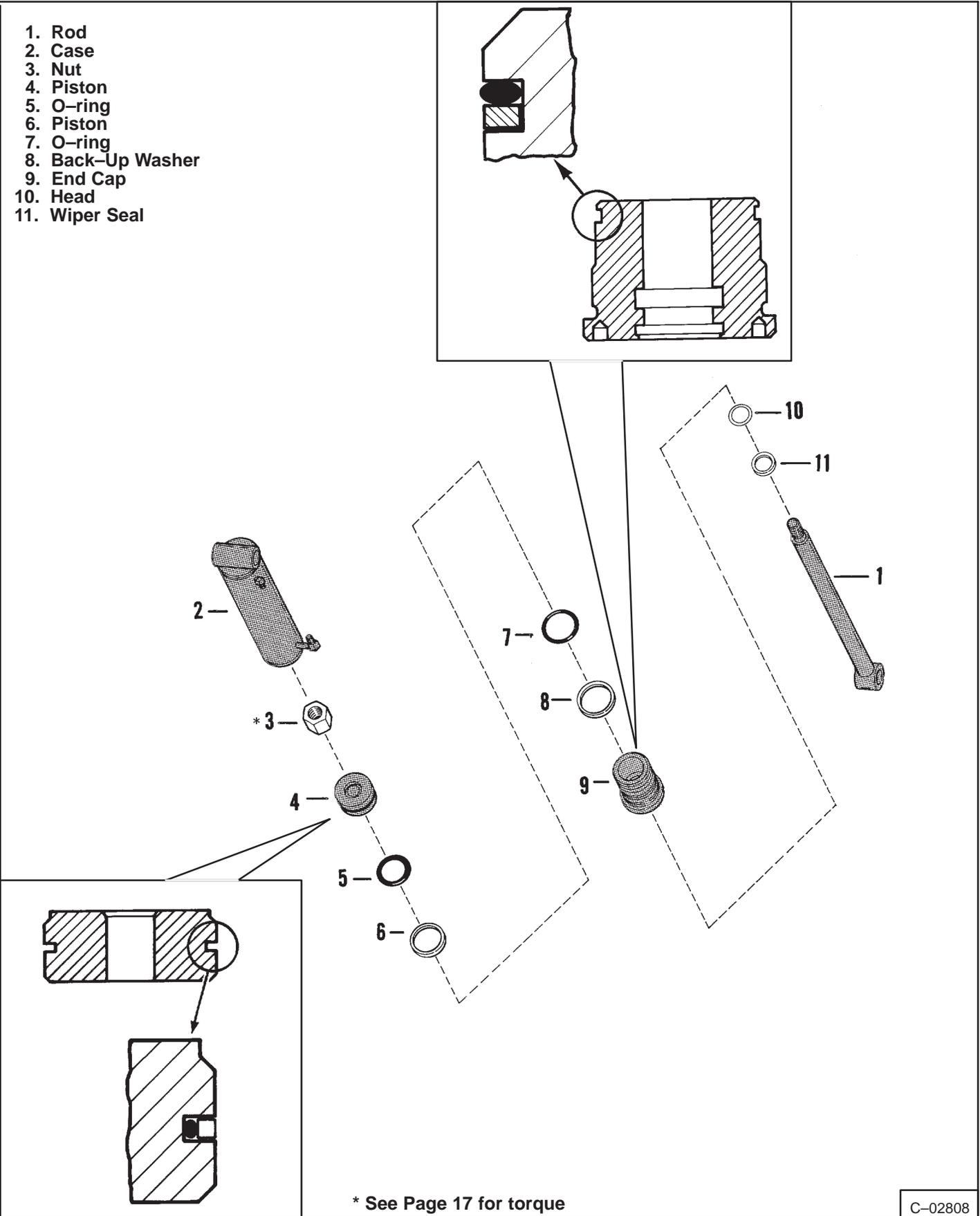


* See Page 17 for torque

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CYLINDER IDENTIFICATION (Cont'd)

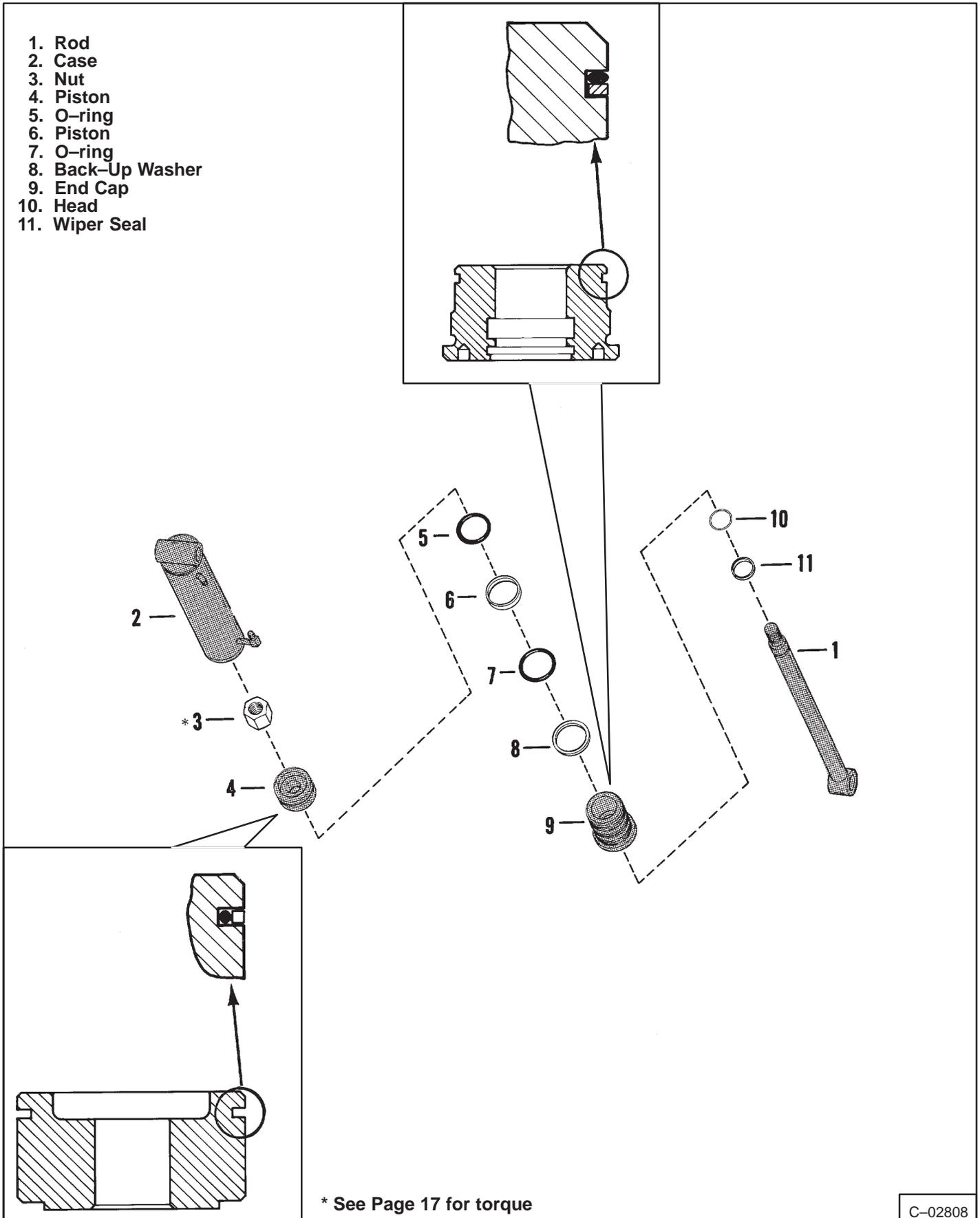
Tilt Cylinder Components on farmboy, 440, 443



CYLINDER IDENTIFICATION (Cont'd)

**Tilt Cylinder Components on 540, 640, 740* Series & 843
(* Not Equipped With Cushion Sleeve)**

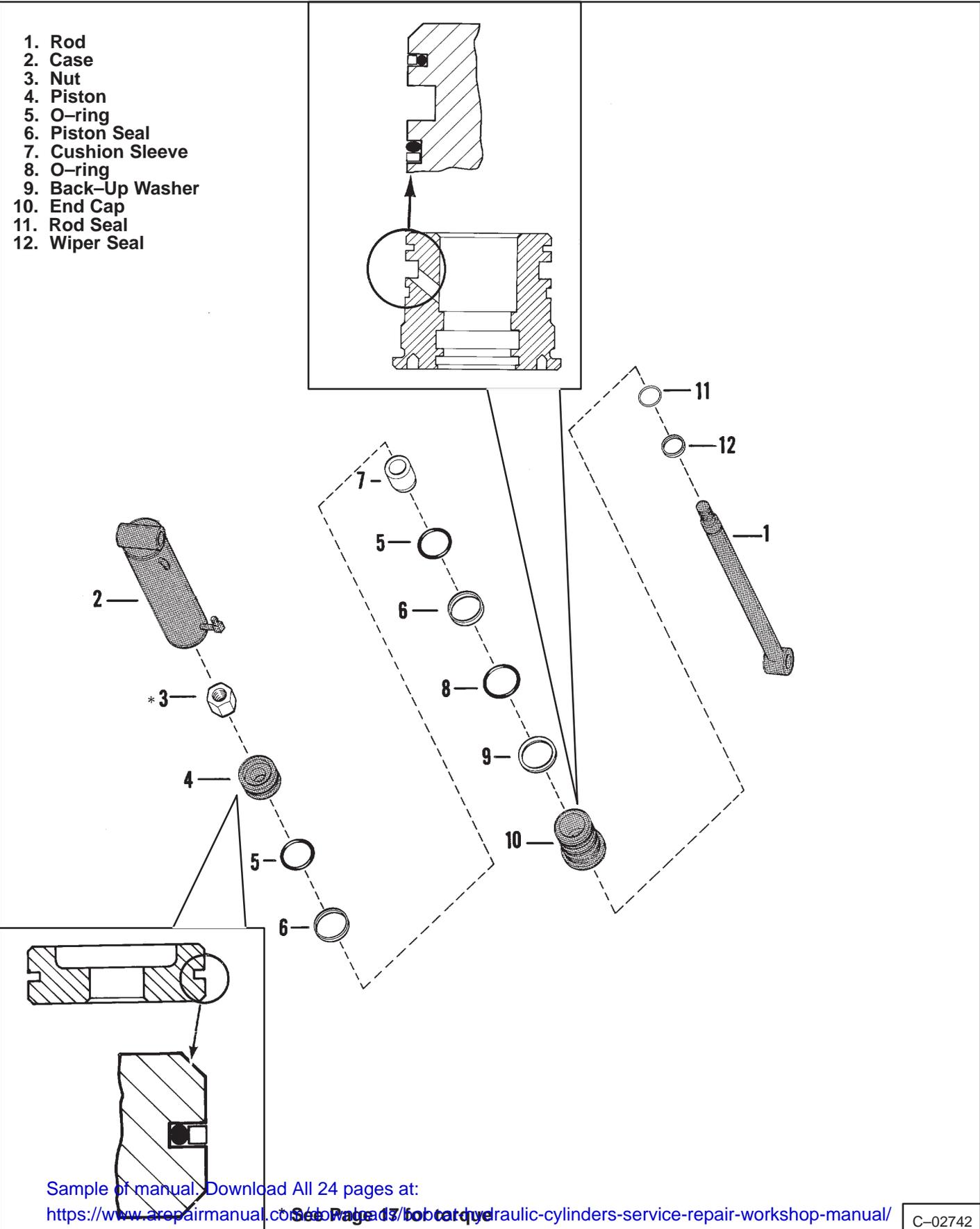
- 1. Rod
- 2. Case
- 3. Nut
- 4. Piston
- 5. O-ring
- 6. Piston
- 7. O-ring
- 8. Back-Up Washer
- 9. End Cap
- 10. Head
- 11. Wiper Seal



* See Page 17 for torque

C-02808

Tilt Cylinder Components on 640* & 740* Series
 (* Equipped With Cushion Sleeve)



C-02742