Precautions for Disassembling and Assembling

Precautions for Disassembling

- Clean the Machine
  Thoroughly wash the machine before bringing it into the shop. Bringing a dirty machine into the shop may cause machine components to be contaminated during disassembling / assembling, resulting in damage to machine components, as well as decreased efficiency in service work.

- Inspect the Machine
  Be sure to thoroughly understand all disassembling / assembling procedures beforehand to help avoid incorrect disassembling of components as well as personal injury.
  Check and record the items listed below to prevent problems from occurring in the future.
  - The machine model, machine serial number, and hour meter reading.
  - Reason for disassembly (symptoms, failed parts, and causes).
  - Clogging of filters and oil, water or air leaks, if any. Capacities and condition of lubricants.
  - Loose or damaged parts.

- Prepare and Clean Tools and Disassembly Area
  Prepare the necessary tools to be used and the area for disassembling work.

Precautions for Disassembling and Assembling

- Precautions for Disassembling
  - Cap the open ends in case the hoses and pipes have been disconnected. In addition, attach an identification tag onto the connectors, hoses, and pipes for assembling.
  - Before disassembling, clean the exterior of the components and place on a workbench.
  - Drain hydraulic oil and gear oil from the hydraulic components and reduction gear.
  - Be sure to provide appropriate containers for draining fluids.
  - Use matching marks for easier reassembling if necessary.
  - Be sure to use the specified special tools when instructed.
  - If a part or component cannot be removed after removing its securing nuts and bolts, do not attempt to remove it forcibly. Find the cause (s), then take the appropriate measures to remove it.
  - Orderly arrange disassembled parts. Mark and tag them if necessary.
  - Store common parts, such as bolts and nuts with reference to where they are to be used and in a manner that will prevent loss.
  - Inspect the contact or sliding surfaces of disassembled parts for abnormal wear, sticking, or other damage.
  - Measure and record the degree of wear and clearances.

- Precautions for Assembling
  - Be sure to clean all parts and inspect them for any damage. If any damage is found, repair or replace part.
  - Dirt or debris on the contact or sliding surfaces may shorten the service life of the machine. Take care not to contaminate any contact or sliding surfaces.
  - Apply appropriate lubricant oil onto parts in order to prevent them from seizing.
  - Be sure to replace O-rings, backup rings, oil seals, and floating seals with new ones once they have been disassembled. Apply grease before installing
  - Be sure that liquid-gasket-applied surfaces are clean and dry.
  - If an anti-corrosive agent has been used on a new part, be sure to thoroughly clean the part to remove the agent.
  - Fit the matching marks made when disassembling and assemble them.
  - Be sure to use the designated tools to assemble bearings, bushings, and oil seals.
  - Keep a record of the number of tools used for disassembly / assembly. After assembling is completed, count the number of tools so as to make sure that no forgotten tools remain in the assembled machine.

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Tightening Bolts and Nuts



WDAA-01-02-001

CAUTION: Use tools appropriate for the work to be done. Makeshift tools and procedures can create safety hazards. For loosening and tightening nuts and bolts, use correct size tools. Otherwise, tightening tools may slip, potentially causing personal injure.

IMPORTANT:

- **Apply lubricant to the bolts and nuts in order to reduce friction coefficient of them. (For example, spindle oil with white zinc B dissolved in it)**
- **Clean the bolt and nut threads and remove dirt or corrosion before installing.**

Bolt Types

Tighten the nuts or bolts correctly to the torque specifications.
As the different types and grades of bolt are used, use and tighten the correct bolts correctly when assembling the machine or components.

Specified Tightening Torque Chart

2013/09

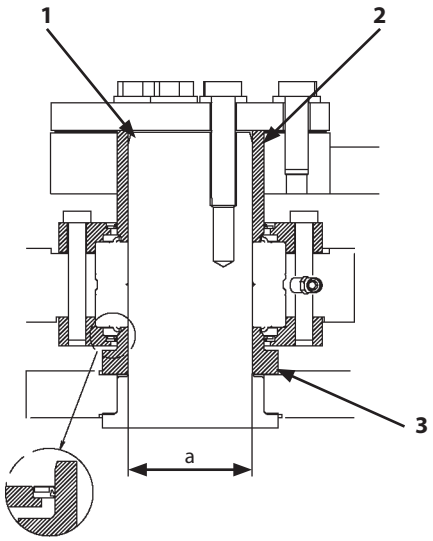
Bolt Dia.	Hexagon Head Bolt							Socket Bolt		
	10.9 T WDAA-01-02-002		8.8 H WDAA-01-02-003		WDAA-01-02-004		Wrench Size mm	Socket Bolt		Wrench Size mm
	N·m	(lbf·ft)	N·m	(lbf·ft)	N·m	(lbf·ft)		N·m	(lbf·ft)	
M6					3 to 4	(2.2 to 3)	10			5
M8	30	(22)	20	(15)	10	(7.4)	13	20	(15)	6
M10	65	(48)	50	(37)	20	(15)	17	50	(37)	8
M12	110	(81)	90	(66)	35	(26)	19	90	(66)	10
M14	180	(133)	140	(103)	55	(41)	22	140	(103)	12
M16	270	(200)	210	(155)	80	(59)	24	210	(155)	14
M18	400	(300)	300	(220)	120	(89)	27	300	(220)	14
M20	550	(410)	400	(300)	170	(125)	30	400	(300)	17
M22	750	(550)	550	(410)	220	(162)	32			
M24	950	(700)	700	(520)	280	(205)	36			
M27	1400	(1030)	1050	(770)	400	(300)	41			
M30	1950	(1440)	1450	(1070)	550	(410)	46			
M33	2600	(1920)	1950	(1440)	750	(550)	50			
M36	3200	(2360)	2450	(1810)	950	(700)	55			

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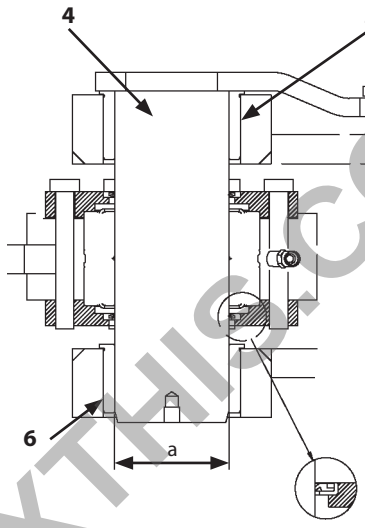
Center Hinge

- Upper Hinge Part (A)



WNDB-03-03-005

- Lower Hinge Part (B)



WNDB-03-03-007

Unit: mm (in)

	Part Name	Standard (a)	Allowable Limit (a)	Remedy
A	Pin (1)	85 (3.35)	84.0 (3.30)	Replace
	Bushings (2), (3)	85 (3.35)	86.5 (3.40)	
B	Pin (4)	75 (2.95)	74.0 (2.91)	
	Bushings (5), (6)	75 (2.95)	76.5 (3.01)	

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Precautions for Using Floating Seal

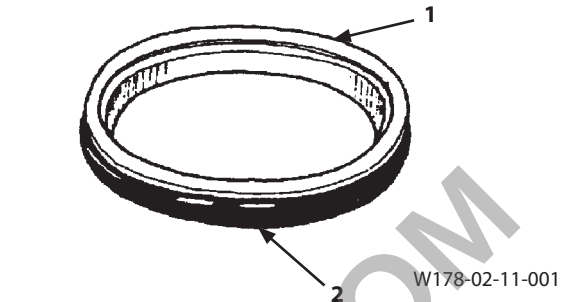
1. In general, replace the floating seal with a new one after disassembling.

   If the floating seal is required to be reused, follow these procedures:

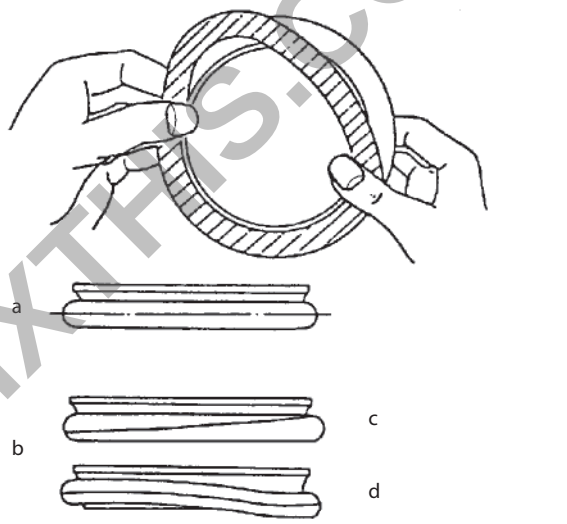
- Keep seal rings together as a matched set with seal ring (1) surfaces together. Apply oil onto sliding surface (e) of seal ring (1).
- Check sliding surface (e) of seal ring (1) for scuffing, scoring, corrosion, deformation, or uneven wear. Check the step part of seal ring (1).
- Check O-ring (2) for tears, breaks, deformation, or hardening.

2. If incorrectly assembled, oil leakage or damage will occur. Be sure to do the following to prevent trouble.

- Clean the floating seal and seal mounting bores with cleaning solvent.
  Use a wire brush to remove mud, rust, or dirt from seal mounting bores. After cleaning, thoroughly dry parts with compressed air.
- Clean seal ring (1) and O-ring (2) mounting bores. Check the bore surface for scuffing or scoring by touching the surface with finger.
- After installing the floating seal, check that O-ring (2) is not twisted, and that it is installed correctly on seal ring (1).
- After installing the floating seal, check that O-ring (2) and seal ring sliding surface (e) is parallel with seal mating surface (f) by measuring the distances (e) and (f) at point (A) and (B), as illustrated. If these distances differ, correct O-ring (2) seating.

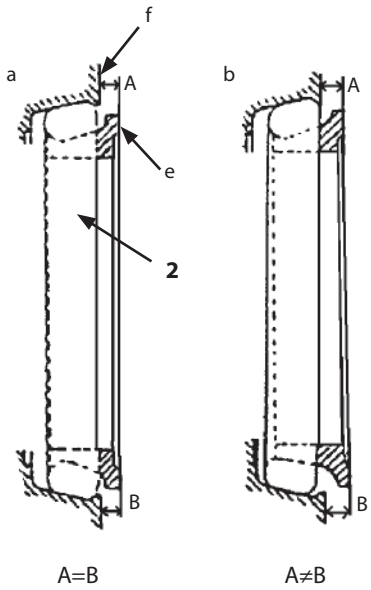


W178-02-11-001



W178-02-11-002

a - Correct
b - Incorrect
c - Twist of O-Ring
d - Bend of O-Ring



W178-02-11-003

a - Correct
b - Incorrect
e - Sliding Surface
f - Seal Mating Surface

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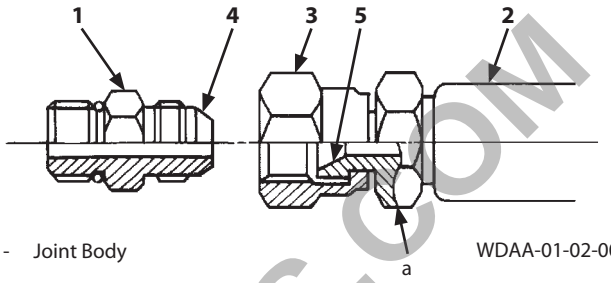
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Union Joint

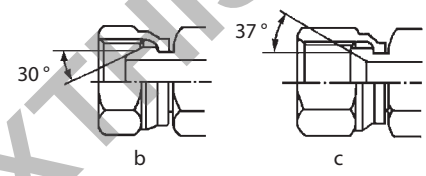
Metal sealing surfaces (4) and (5) of adapter (1) and hose (2) fit together to seal pressure oil. Union joints are used to join small-diameter lines.

IMPORTANT:

- **Do not over-tighten union nut (3). Excessive force will be applied to metal sealing surfaces (4) and (5), possibly cracking the adapter. Tighten union nut (3) to the specifications.**
- **Scratches or other damage to sealing surfaces (4) or (5) will cause oil leakage at the joint. Take care not to damage them when connecting / disconnecting.**



a - Joint Body WDAA-01-02-009



b - Male Union Joint c - Female Union Joint

WDAA-01-02-010

2013/09

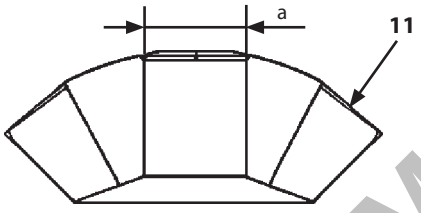
Description	Wrench Size mm	Tightening Torque	
	Union Nut	N·m	(lbf·ft)
30 ° male	17	25	(18.5)
	19	30	(22)
	22	40	(29.5)
	27	80	(59)
	32	140	(103)
	36	180	(133)
	41	210	(155)
	50	350	(260)
	55	380	(280)
	60	380	(280)
37 ° female	17	25	(18.5)
	19	30	(22)
	22	40	(29.5)
	27	80	(59)
	32	140	(103)
	36	180	(133)
	41	210	(155)
	50	350	(260)

NOTE: Tightening torque of 37 ° male coupling without union is similar to tightening torque of 37° female.

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1. Inner diameter (a) of pinion (11)

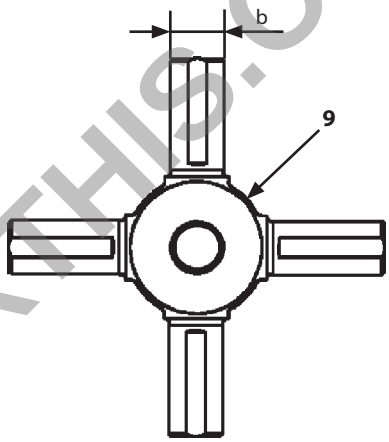


WNDB-02-02-001

Unit: mm (in)

Standard	Allowable Limit
28.70 to 28.75 (1.130 to 1.132)	-

2. Pin hole outer diameter of spider (9)



WNDB-02-02-002

• Axle equipped with TPD

Unit: mm (in)

Standard	Allowable Limit
28.55 to 28.58 (1.124 to 1.125)	-

• Axle equipped with LSD

Unit: mm (in)

Standard	Allowable Limit
28.53 to 28.58 (1.123 to 1.125)	-

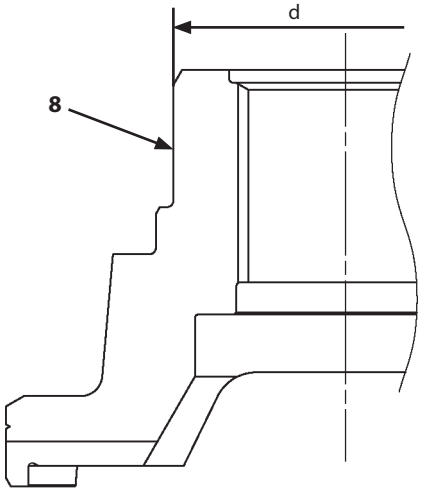
3. Clearance (c) between pinion (11) and spider (9)

Unit: mm (in)

Standard	Allowable Limit
-	0.25 (0.010)

c = a – b

4. Oil seal (7) sliding part (d) of outer diameter of yoke (8)



WNDB-02-02-008

Unit: mm (in)

Standard	Allowable Limit
79.926 to 80.000 (3.147 to 3.150)	79.876 (3.145)

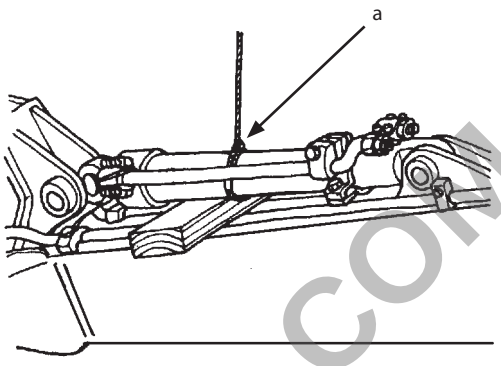
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Precautions for Using Nylon Sling

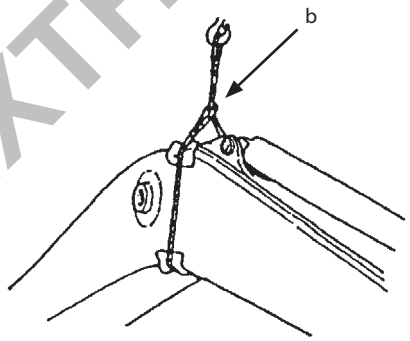
1. Follow the precautions below to use nylon slings safely.

- Attach protectors (soft material) on the corners of the load so that the nylon sling does not directly contact the corners. This will prevent the nylon sling from being damaged and the lifted load from slipping.
- Lower the temperature of the lifted load to lower than 100 °C (212 °F). If unavoidably lifting a load with a temperature of 100 °C (212 °F) or more, reduce the load weight.
- Do not lift acid or alkali chemicals.
- Take care not to allow the sling to become wet. The load may slip.
- When required to use more than one sling, use slings with the same width and length to keep the lifted load balanced.
- When lifting a load using an eyehole, be sure to eliminate any gaps between the sling and load. (Refer to the right illustration.) Reduce the load weight so that it is less than 80 % of the sling breaking force.
- Avoid using twisted, bound, connected, or hitched slings.
- Do not place any object on twisted or bent slings. (Refer to the right illustration.)
- When removing the slings from under the load, take care not to damage the nylon slings. Avoid contact with protrusions.
- Avoid dragging slings on the ground, throwing slings, or pushing slings with a metal object.
- When using with other types of slings (wire rope) or accessories (shackle), protect the joint so that the nylon sling is not damaged.
- Store the nylon slings indoors so that they won't deteriorate with heat, sun light, or chemicals.



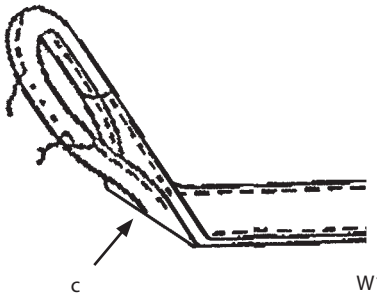
W102-04-02-016

a - Correct Eyehole Lifting Method



W105-04-01-008

b - Incorrect Eyehole Lifting Method



W162-01-01-009

c - Bent of Sling

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Pipe Joint

Pipe connection (metal joint)
(Union Nut Wrench Size: 17, 19, 22, 27 mm

Metal (3) of adapter (1) and pipe (2) seals pressure oil.

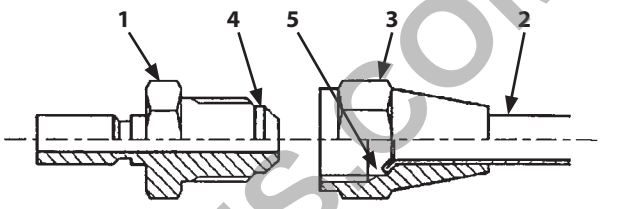
- Precautions for use

Do not damage sealing surfaces (4) and (5) when disassembling and assembling.

Tightening Torque
Use the specified tightening torque in the table below.

2013/09

Wrench Size (mm)		17	19	22	27
Tightening Torque	N·m	25	30	40	80
	(lbf·ft)	(18.5)	(22)	(29.5)	(59)



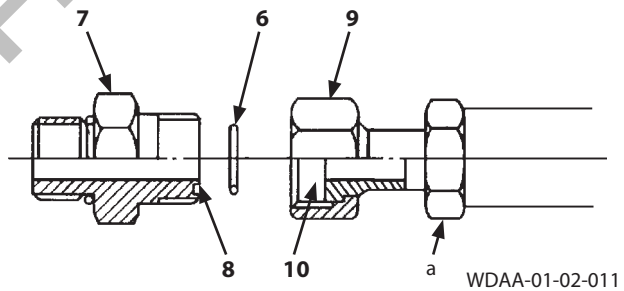
M1M7-07-005

O-ring Seal Joint

O-ring (6) is installed against the end surface of adapter (7) and seals pressure oil.

IMPORTANT:

- **Replace O-ring (6) with a new one when reinstalling.**
- **Before tightening union nut (9), confirm that O-ring (6) is seated correctly in O-ring groove (8). Tightening union nut (9) with O-ring (6) displaced will damage O-ring (6), resulting in oil leakage.**
- **Do not damage O-ring groove (8) of adapter (7) or sealing surface (10) on the hose side. Damage to O-ring (6) may cause oil leakage.**
- **If union nut (9) is found to be loose, causing oil leakage, do not tighten it to stop the leak. Instead, replace O-ring (6) with a new one, then tighten union nut (9) after confirming that O-ring (6) is securely seated in O-ring groove (8).**



WDAA-01-02-011

a - Joint Body

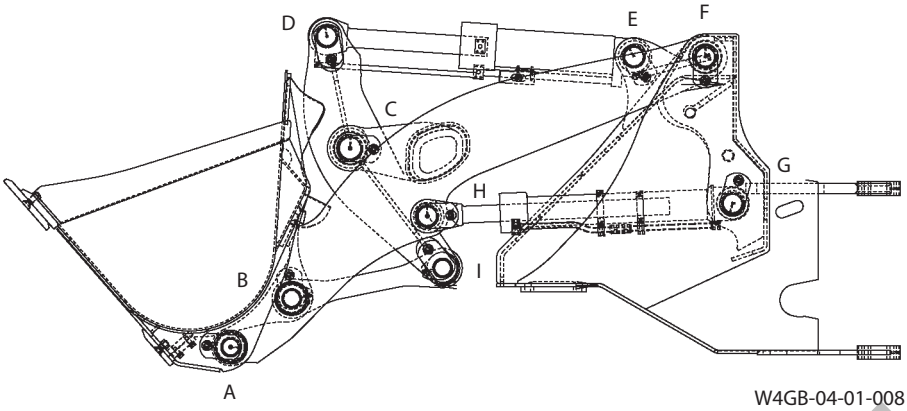
2013/09

Wrench Size mm (in)	Tightening Torque	
Union Nut	N·m	(lbf·ft)
19 (0.75)	30	(22)
22 (0.87)	70	(52)
27 (1.06)	95	(70)
32 (1.26)	140	(103)
36 (1.42)	180	(133)
41 (1.61)	210	(155)
50 (1.97)	350	(260)

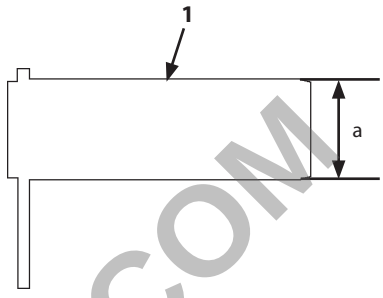
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Pin and Bushing

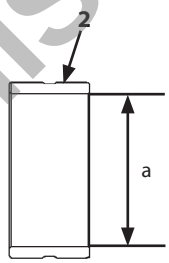


W4GB-04-01-008



1- Pin

WNEC-02-03-001



2- Bushing

WNEC-02-03-002

Unit: mm (in)

	Part Name	Standard (a)	Allowable Limit (a)	Remedy
A	Pin	75 (2.95)	74.0 (2.91)	Replace
	Bushing (Lift Arm)	75 (2.95)	76.5 (3.01)	
B	Pin	75 (2.95)	74.0 (2.91)	
	Bushing (Bucket Link)	75 (2.95)	76.5 (3.01)	
C	Pin	115 (4.53)	114.0 (4.49)	
	Bushing (Bell Crank (Lever))	115 (4.53)	116.5 (4.59)	
D	Pin	85 (3.35)	84.0 (3.31)	
	Bushing (Bucket Cylinder)	85 (3.35)	86.5 (3.41)	
E	Pin	85 (3.35)	84.0 (3.31)	
	Bushing (Bucket Cylinder)	85 (3.35)	86.5 (3.41)	
F	Pin	100 (3.94)	99.0 (3.90)	
	Bushing (Lift Arm)	100 (3.94)	101.5 (4.00)	
G	Pin	85 (3.35)	84.0 (3.31)	
	Bushing (Lift Arm Cylinder)	85 (3.35)	86.5 (3.41)	
H	Pin	85 (3.35)	84.0 (3.31)	
	Bushing (Lift Arm Cylinder)	85 (3.35)	86.5 (3.41)	
I	Pin	75 (2.95)	74.0 (2.91)	
	Bushing (Bucket Link)	75 (2.95)	76.5 (3.01)	

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SECTION AND GROUP CONTENTS

WORKSHOP MANUAL

All information, illustrations and specifications in this manual are based on the latest product information available at the time of publication. The right is reserved to make changes at any time without notice.

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GENERAL

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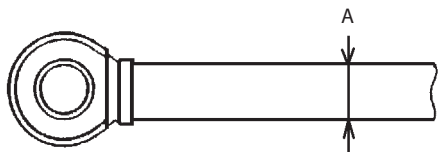
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Cylinder

Rod

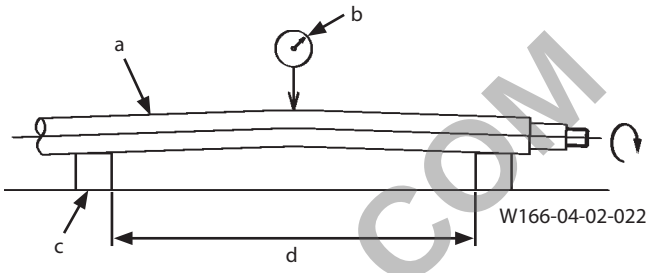


W105-04-02-094

Unit: mm (in)

Cylinder Name	Recommended Size After Re-manufacturing (A)
Lift Arm	$75^{-0.01}_{-0.023}$ ($2.95^{-0.0004}_{-0.0011}$)
Bucket	$85^{-0.012}_{-0.027}$ ($3.37^{-0.0005}_{-0.0010}$)
Steering	$45^{-0.009}_{-0.020}$ ($1.78^{-0.0004}_{-0.0008}$)

Rod Bend and Run Out



W166-04-02-022

a- Cylinder Rod
b- Dial Gauge
c- V Block
d- 1 m (39.4 in)

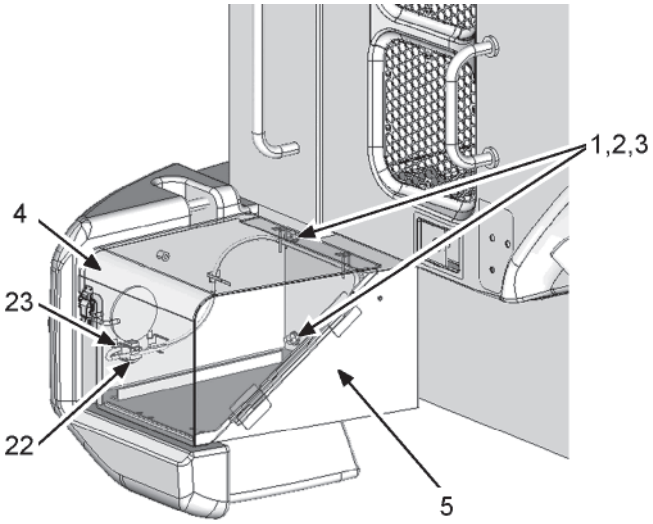
Unit: mm (in)

Bend	Run Out	Remedy
0.5 (0.02)	1.0 (0.04)	Repair
1.0 (0.04)	2.0 (0.08)	Replace

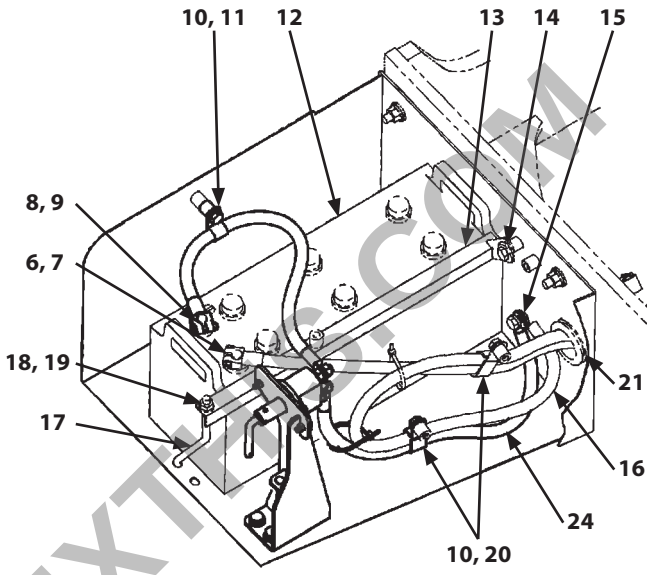
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Removal and Installation of Battery Box (With Battery Disconnect Switch)



WNDB-03-02-002



WNEE-03-02-006

Removal

1. Set the machine position for inspection and maintenance. (Refer to W1-6-1.)

Removal of Battery Box (Right)

2. Open cover (4).
3. Loosen nut (8). Disconnect terminal (9).

   : 10 mm
4. Loosen nut (6). Disconnect terminal (7).

   : 10 mm

CAUTION: Battery (12) weight: 44 kg (98 lb)

5. Remove nut (18), washer (19), and bolt, washer (14). Remove rod (17) and bracket (13). Remove battery (12).

   : 17 mm
6. Remove bolt, washer (15). Disconnect grounds (16, 24).

   : 17 mm
7. Remove bolts, washers (10) (3 used), clip (11), and clips (20) (2 used).

   : 17 mm
8. Disconnect connector (23). Remove the harnesses from all clips of battery box (5).
9. Remove rubber bushings (21, 22).

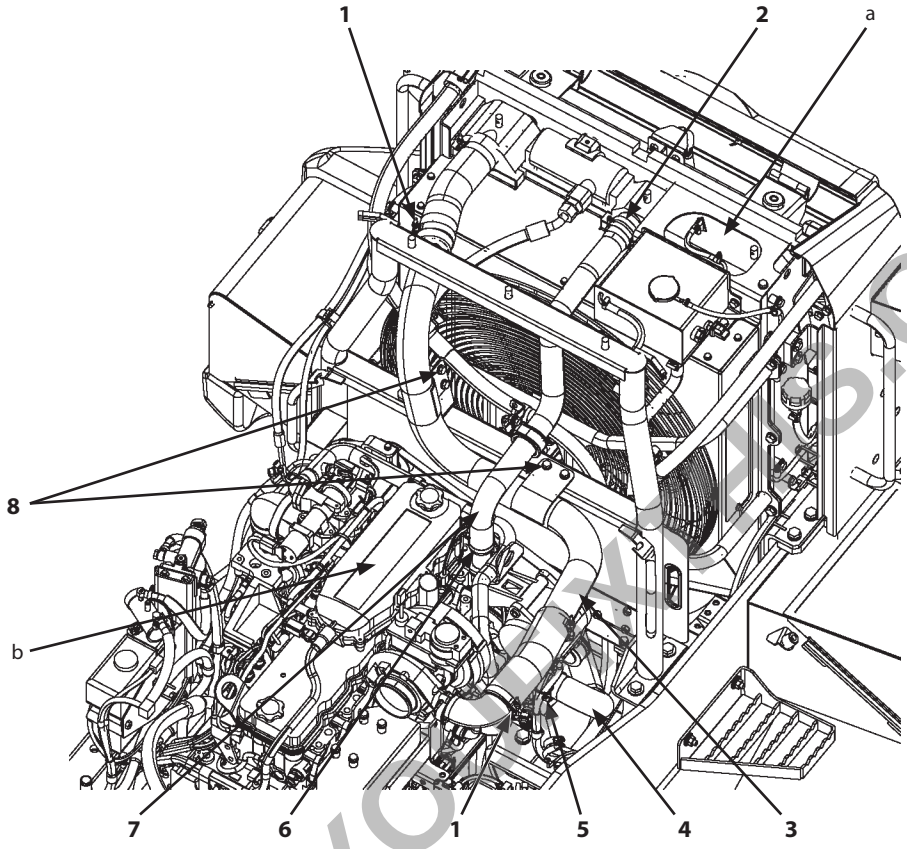
CAUTION: Battery box (5) weight: 30 kg (67 lb)

10. Remove nuts (1) (4 used) and washers (2, 3) (4 used for each). Remove battery box (5) while pulling connector (23), terminal (7), and ground (16) out of it.

    : 19 mm

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WNDB-03-04-021

a- Radiator b- Engine

24. Remove clamp (6). Disconnect the engine (b) side of hose (7).

: 7 mm

NOTE: THREEBOND #1207B has been applied on hose (7) connecting surface.

25. Remove clamps (2) (2 used). Disconnect the radiator (a) side of hose (7).

: 7 mm

NOTE: THREEBOND #1207B has been applied on hose (7) connecting surface.

26. Remove bolts, washers (8) (4 used).

: 17 mm

27. Remove clamps (1) (2 used). Disconnect the pipe (3) assembly.

: 11 mm

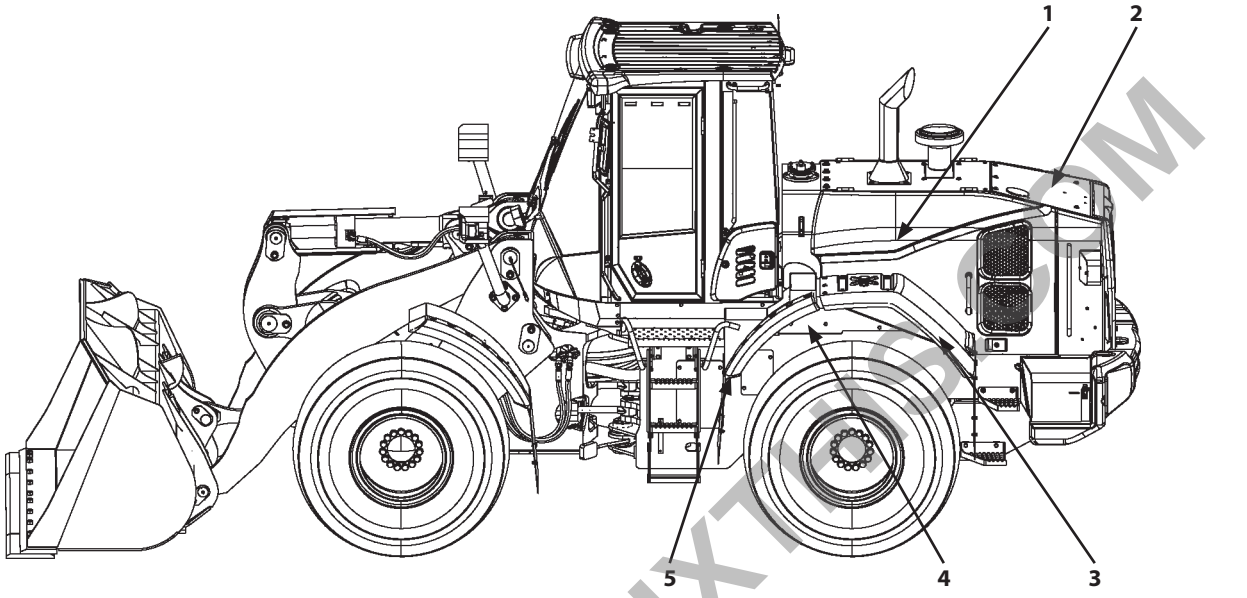
28. Remove clamp (5). Disconnect the engine (b) side of hose (4).

: 11 mm

NOTE: THREEBOND #1207B has been applied on hose (4) connecting surface.

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WNDB-03-04-001

4. Remove the following parts at the right and left sides. (Refer to W3-4-2.)

- Rear Fender (Front) (5)
- Rear Fender (Rear) (3)
- Side Cover (1)
- Cover (Lower) (4)

5. Remove rear cover (2). (Refer to W3-4-2.)

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- Disassembly of Load Check Valve (Bucket Circuit) (d) and Bucket Flow Rate Control Valve (e)

18. Remove plug (7) from housing (31). Remove spring (3) and poppets (8, 9) from housing (31) by using a magnet. Remove O-ring (4) from plug (7).

    : 36 mm

- Disassembly of Load Check Valve (Lift Arm Circuit) (c)

19. Remove plug (5) from housing (31). Remove spring (3) and poppet (2) from housing (31) by using a magnet. Remove O-ring (4) from plug (5).

    : 36 mm

20. Remove socket bolts (42) (4 used) from end plate (41). Remove end plate (41) from housing (31). Remove O-rings (39, 40) from end plate (41).

    : 10 mm

21. Remove plugs (30) (2 used) and plug (6) from housing (31). Remove O-rings (46) (3 used) from plugs (30) (2 used) and plug (6).

    : 10 mm

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16. Tighten nut (11C) to the specified torque.

    : 19 mm

    : 40±4 N·m (4±0.4 kgf·m, 30±3 lbf·ft)

17. Install boot (13) to the lever (11A) assembly.

IMPORTANT: Check the direction to install handle (1).

18. Install handle (1) to lever (11A).

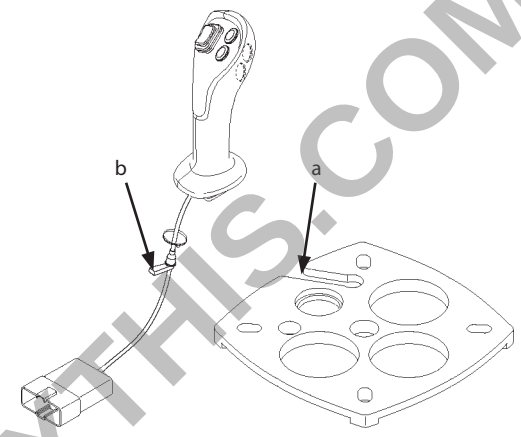
IMPORTANT: The thread part of handle (1) is made of resin. Take care not to tighten screw (11B) excessively.

19. Install screw (11B) to handle (1) by using a star screwdriver.

20. Install boot (13) to handle (1).

IMPORTANT: Install the harness of handle (1) by winding around lever (11A). At this time, adjust the harness in order not to rub.

21. Install bracket (b) of the harness of handle (1) to groove (a) on plate (51). Secure the harness.



WNEC-03-10-005

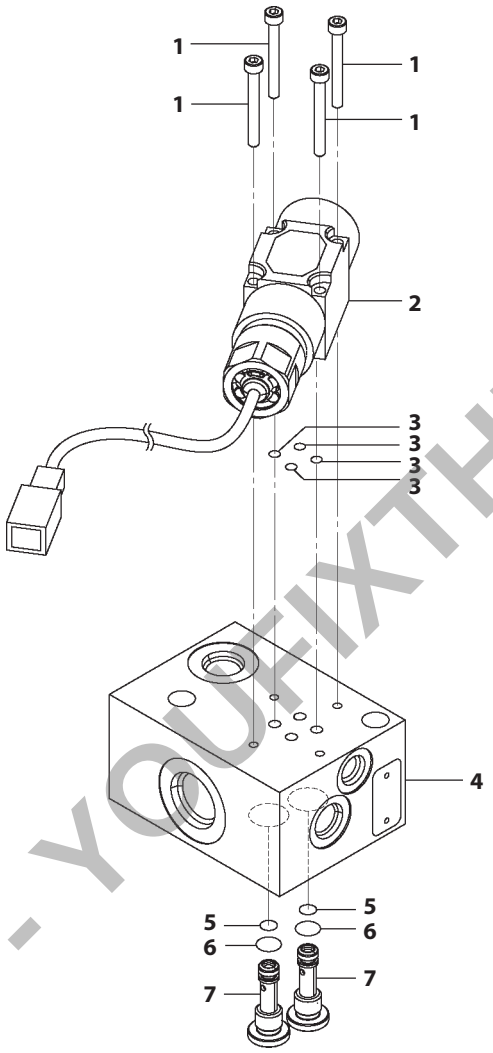
a- Groove b- Bracket

22. Lower and install boot (13) to handle (51).

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Structure of Parking Brake Solenoid Valve Unit

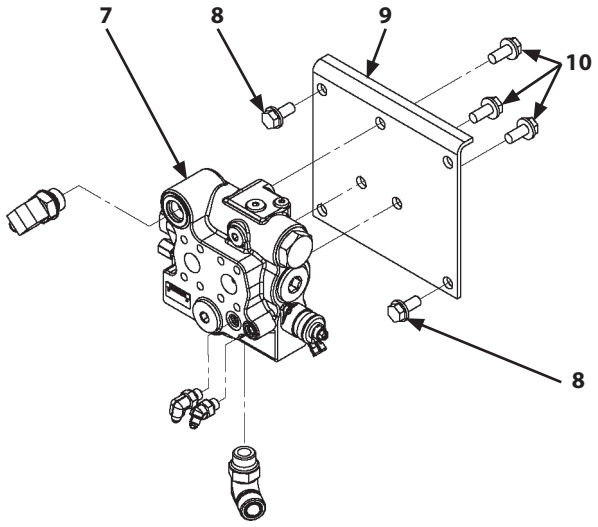


WNEJ-03-13-001

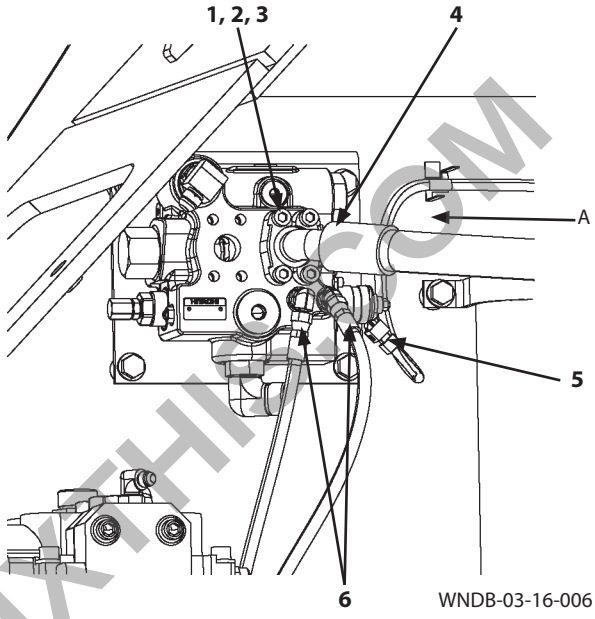
No.	Part Name	Q'ty	Wrench Size	Tightening Torque			Remark
			(mm)	N·m	kgf·m	lbf·ft	
1	Socket Bolt	4	⌐: 4	5+1	0.5+0.1	3.7+0.7	
2	Solenoid Valve	1					
3	O-Ring	4					
4	Block	1					
5	O-Ring	2					Apply grease onto the outer surface when assembling.
6	O-Ring	2					
7	Filter	2	⌐: 6	25+5	2.5+0.5	18.5+3.7	

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WNDB-03-16-007



WNDB-03-16-006

Installation

1. Install all removed adapters to ride control valve (7).
2. Install ride control valve (7) to bracket (9) with bolts, washers (10) (3 used).

   : 19 mm

   : 90 N·m (9 kgf·m, 66 lbf·ft)
3. Install the ride control valve (7) assembly with bolts, washers (8) (4 used).

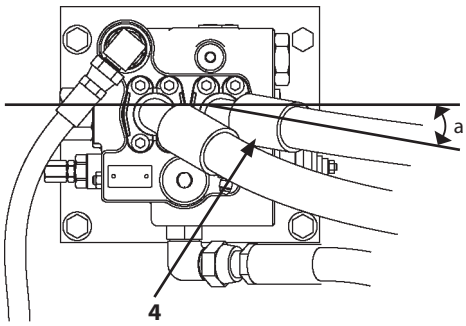
   : 19 mm

   : 90 N·m (9 kgf·m, 66 lbf·ft)
4. Connect connector (5).
5. Connect hoses (6) (2 used).

   : 17 mm

   : 25 N·m (2.5 kgf·m, 18.5 lbf·ft)

View A



a- 10 °

WNDB-03-16-008

IMPORTANT: Check the angle to install hose (4).

6. Install O-ring (3). Install hose (4) with flanges (2) (2 used) and socket bolts (1) (4 used).

   : 8 mm

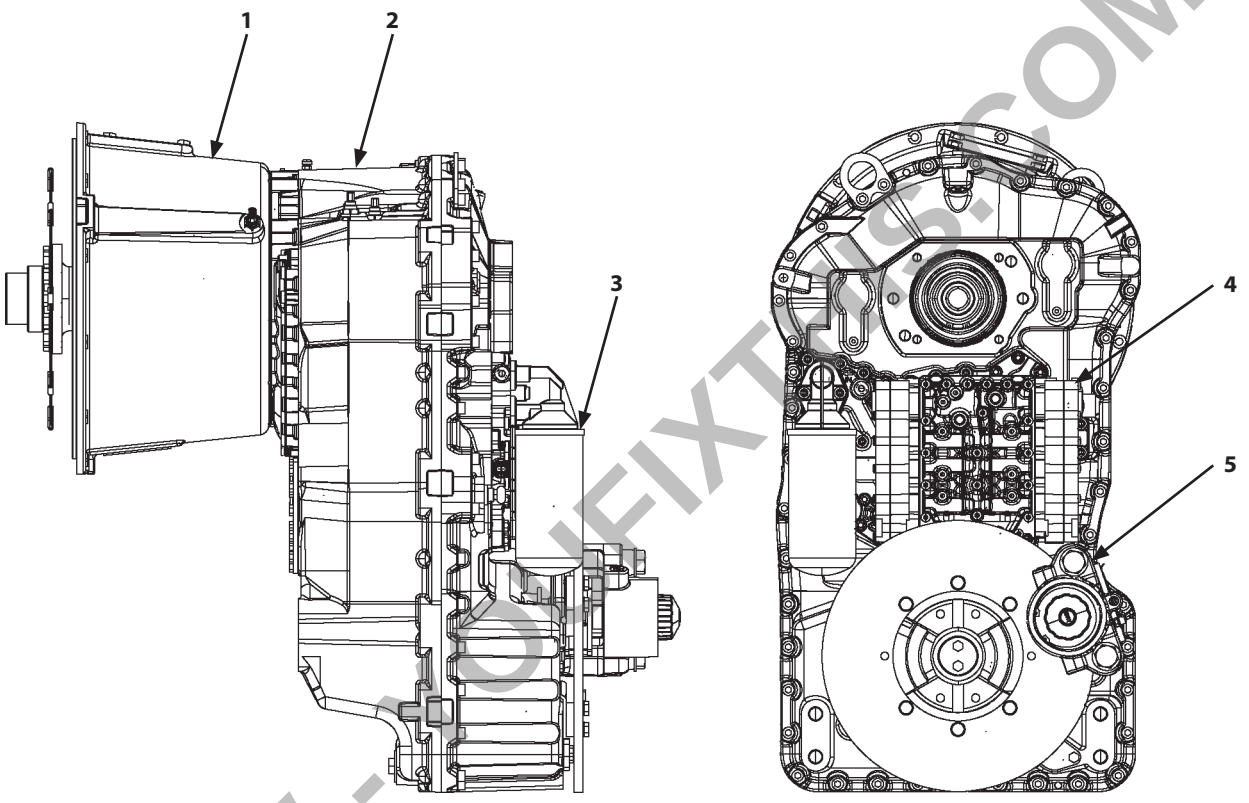
   : 50 N·m (5 kgf·m, 37 lbf·ft)

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Disassembly and Assembly of Drive Unit

Drive Unit Assembly



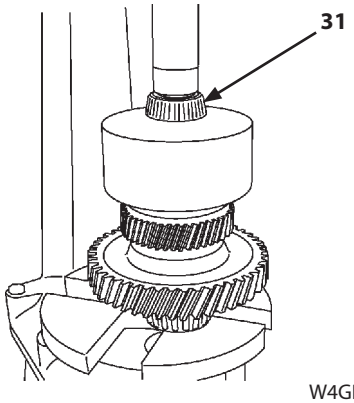
WNDB-04-02-002

1- Torque Converter
2- Transmission
3- Oil Filter
4- Transmission Control Valve
5- Parking Brake

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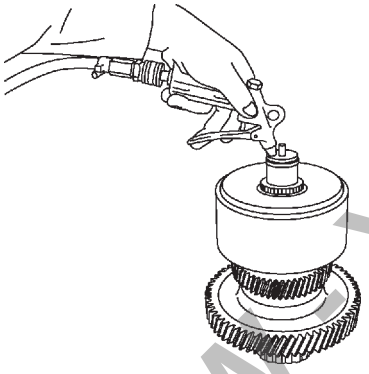
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22. Install the inner ring of taper roller bearing (31) to shaft (3) by using a press.



W4GB-03-02-170

NOTE: Supply low-pressure air and check the clutch operation. When it has been assembled correctly, the clutch operation sound can be heard.



W4GB-03-02-169

23. Install stud (4) to shaft (3).

NOTE: Install nuts (M10) (2 used) to the top of stud (4) and secure it. Then, install stud (4) to shaft (3). After installing stud (4), remove nuts (M10) (2 used) from stud (4).

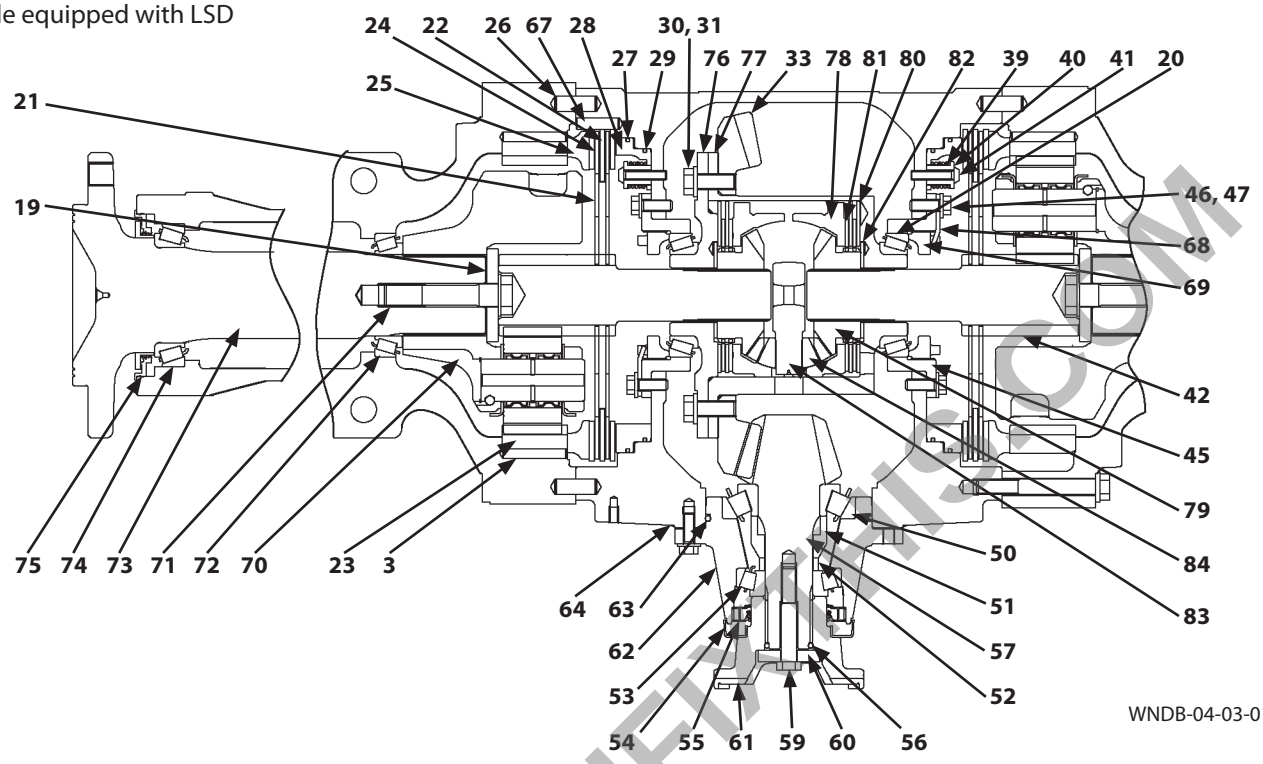
: 17 N·m (1.7 kgf·m, 12.5 lbf·ft)

24. Install piston rings (2, 5) to shaft (3).

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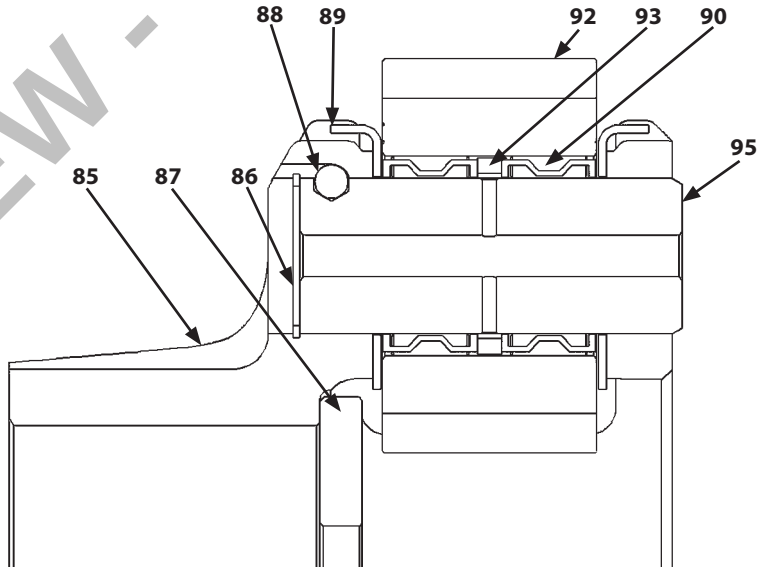
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- Axle equipped with LSD



WNDB-04-03-010

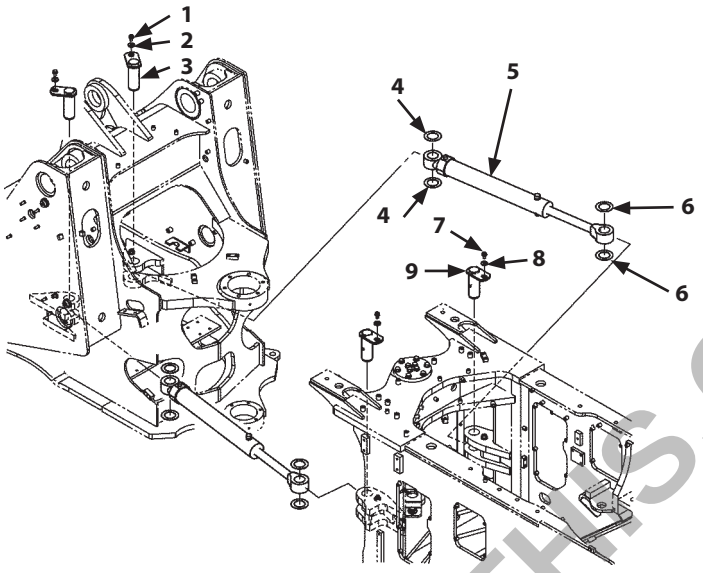
- Planetary Carrier Assembly (70)



WNDB-04-03-011

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WNEC-04-08-012

CAUTION: Steering cylinder (5) weight: 24 kg (53 lb)

22. Attach the nylon slings onto steering cylinder (5). Hoist and hold steering cylinder (5).
23. Remove bolt, washer (7) and washer (8).

: 19 mm

CAUTION: Metal fragments may fly off when a hammer is used. Wear necessary protection, such as goggles, helmets, etc in order to prevent personal injury.

24. Remove pin (9) and shim (6) by using a bar and a hammer.
25. Remove bolt, washer (1) and washer (2).

: 19 mm

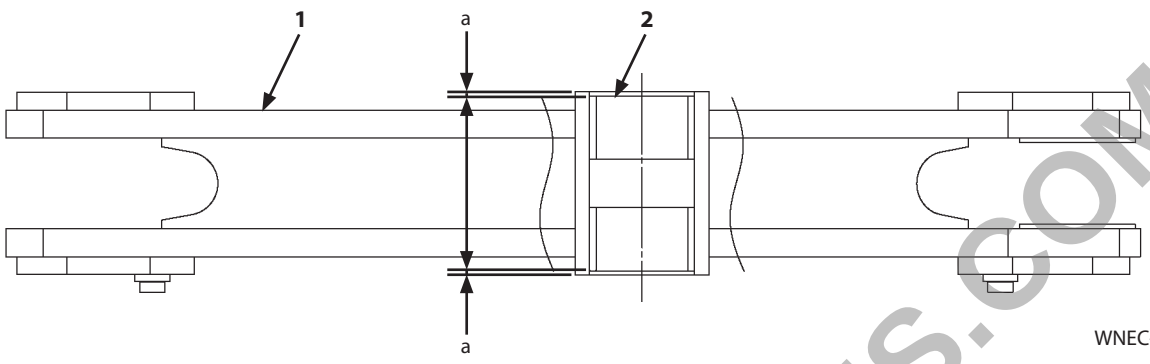
CAUTION: Metal fragments may fly off when a hammer is used. Wear necessary protection, such as goggles, helmets, etc in order to prevent personal injury.

26. Remove pin (3) and shim (4) by using a bar and a hammer.
27. Remove steering cylinder (5).
28. Remove the adapters with steering cylinder (5) attached if necessary.

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Position to Install (Bell crank (lever))



WNEC-05-01-027

1- Bell crank (lever)
2- Bushing
a- 8.5 mm (0.34 in)

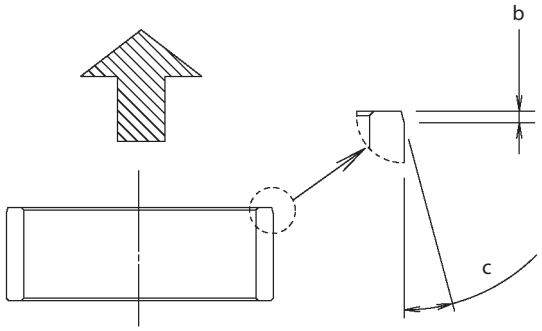
Installation

IMPORTANT: Check outer diameter, inner diameter, wear, and damage of all pins and bushings before installation. Replace them if there are some troubles. (Refer to W2-2-1.)

IMPORTANT: Apply grease onto the inner surface of bushings and dust seals when installing the pin. In addition, apply anti-rust oil onto the inner surface of the boss.

IMPORTANT: Refer to the illustration when installing the bushing of bell crank (lever).

Direction to Install (Bell crank (lever))

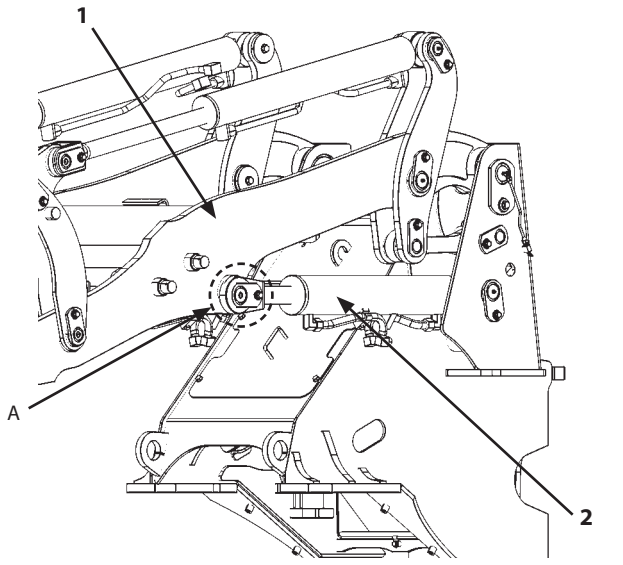


WNEC-05-01-028

b- 2.5 mm (0.098 in)
c- 15 °

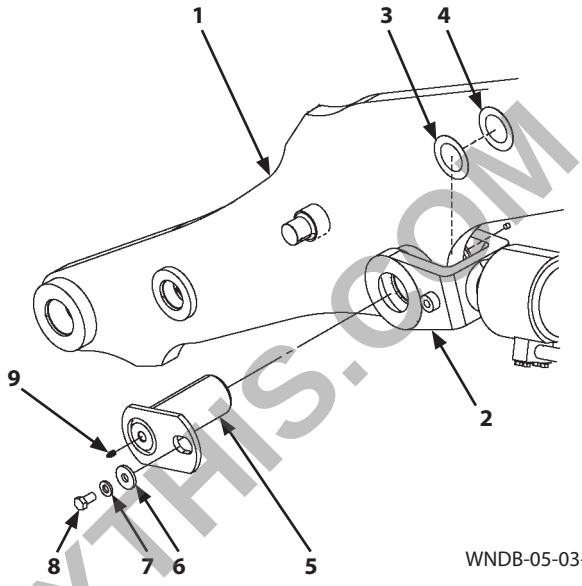
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WNDB-05-03-005

Detail A



WNDB-05-03-102

CAUTION: Lift arm cylinder (2) weight: 135 kg (300 lb)

19. Attach nylon slings onto lift arm cylinder (2) in one side. Hoist lift arm cylinder (2). Remove the wires from the rod holes of lift arm cylinder (2). Check the hydraulic oil level. Start the engine. Extend lift arm cylinder (2). Fit the rod to the lift arm (1) mounting hole. Stop the engine.

CAUTION: Metal fragments may fly off when a hammer is used. Wear necessary protection, such as goggles, hard hat, etc. in order to prevent personal injury.

20. Fit spacers (3, 4) to the lift arm (1) mounting hole so that clearance (a) is adjusted within 1.5 mm (0.059 in). Install pin (5) to lift arm cylinder (2) by using a hammer.

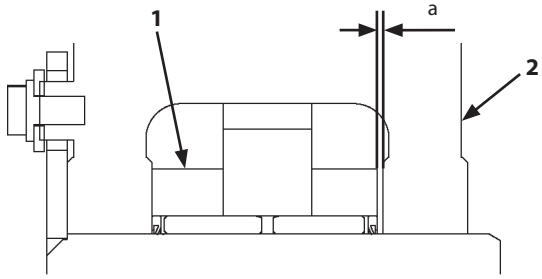
NOTE: Fit at least one spacer (3) or spacer (4) to lift arm cylinder (2) mounting hole.

NOTE: Thickness of spacers (3, 4): 1.6 mm (0.063 in), 2.3 mm (0.091 in)

21. Install washers (6, 7) and bolt (8).

: 24 mm

: 210 N·m (21 kgf·m, 155 lbf·ft)



WNDB-05-03-108

a- Clearance

22. Apply grease to grease fitting (9).

23. Install other lift arm cylinder (2) in the same way as step 19 to step 22.

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