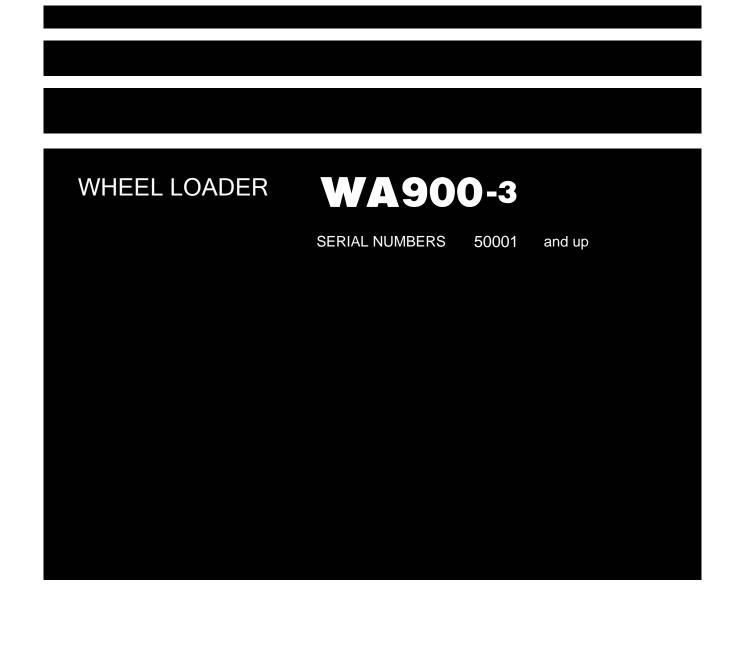
Field Assembly Instruction





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Field assembly instruction

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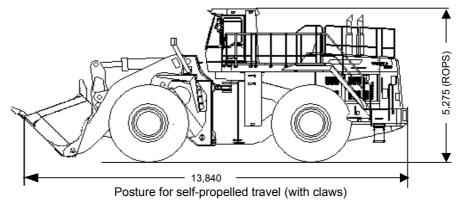
Field assembly inspection report

Assembly process. No. A-10 General drawing and transportation specification of machine

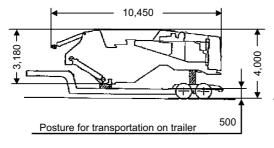
Land transportation

		Related spe	Means of transportation and necessary		
Specification	Weight (kg)	Overall length (mm)	Overall width (mm)	Overall height (mm)	work for transportation
Self-propelled travel	101,500 (Operating weight)	13,840	4,760 (Bucket width)	5,275 (Top of ROPS)	—
Transportation on trailer	31,500 (Bare machine)	10,450	3,200	3,300	36-t trailer × 1 [Chassis, excluding following parts to be removed] 15-t trailers × 4 [Bucket, loader link, front axle, rear axle (including swivel support), tires and rims, cab and operator's seat, exterior parts (hood grille, fenders, ladder, platform, handrails, light support), counterweight, fuel tank (including fuel), and exhaust pipe]

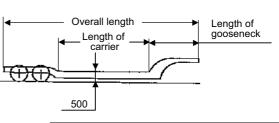
Self-propelled travel



Transportation on trailer



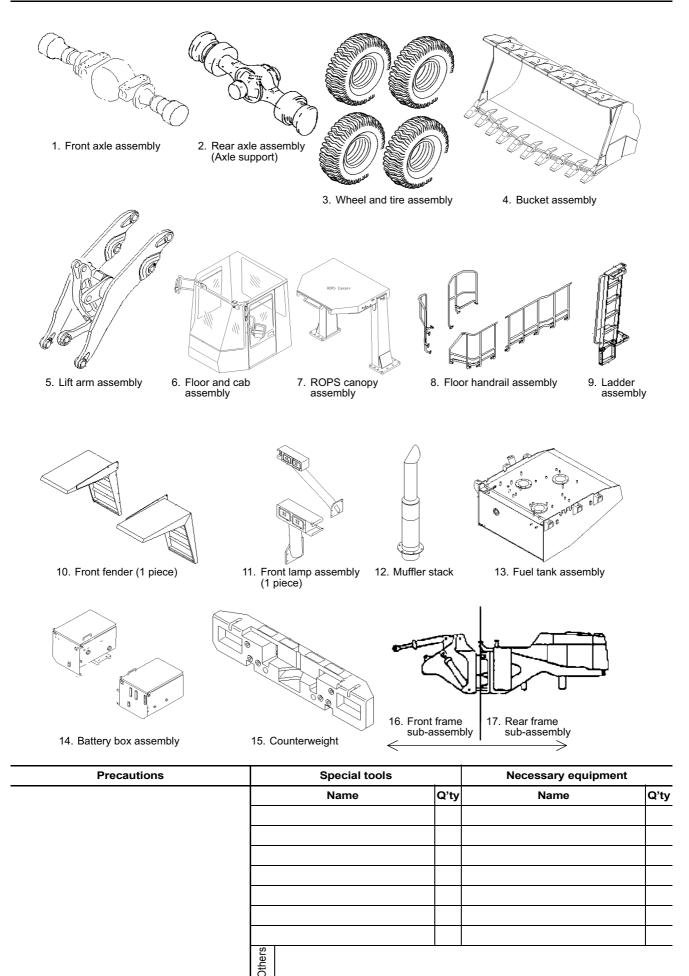
(Reference) Trailer dimensions (36-ton, low- platform type)



Туре	_	
Hauling capacity	ton	36
Length of carrier	mm	6,300
Width of carrier	mm	3,200
Overall length	mm	11,900
Length of gooseneck	mm	2,500

Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
	Others			

Assembly process. No. A-20 Drawings of disassembled units



Assembly process. No. A-30 Dimensions of removed units

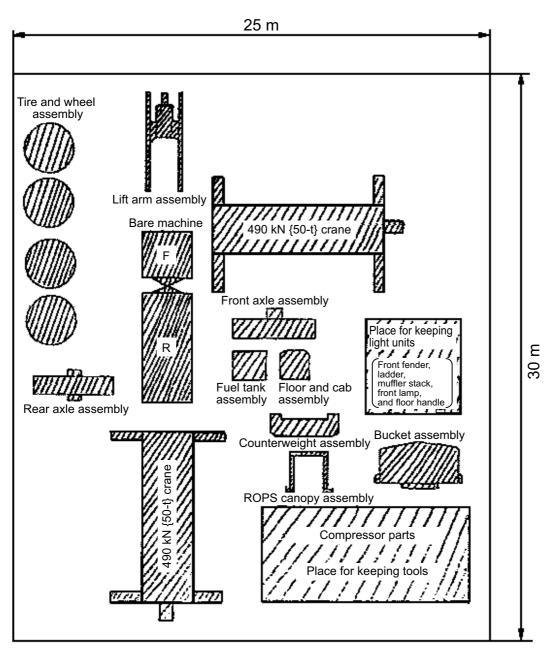
Dimensions table of removed units

No.	Unit name	Weight (kg)	L: Overall length (mm)	W: Overall width (mm)	H: Overall height (mm)
1	Front axle assembly	8,514	4,400	1,600	1,000
2	Rear axle assembly (with axle support)	8,500	4,400	1,800	1,000
3	Wheel and tire assembly	14,300	1,200	2,800	2,800
4	Bucket assembly	12,330	5,200	2,900	2,500
5	Lift arm assembly	8,690	2,400	5,200	2,600
6	Floor and cab assembly	1,000	2,300	1,800	2,100
7	ROPS canopy assembly	1,387	2,500	1,900	2,200
8	Floor handrail and rear access step assembly	650	1,820	3,940	1,100
9	Ladder assembly	60	500	700	2,400
10	Front fender	170	800	1,700	1,400
11	Front lamp assembly	65	800	700	1,300
12	Muffler stack	50	400	400	1,700
13	Fuel tank assembly	790	1,800	1,900	1,100
14	Battery box assembly	580	900	900	800
15	Counterweight	2,900	3,200	1,200	600
16	Front frame sub-assembly	11,500	4,830	2,250	3,150
17	Rear frame sub-assembly	23,936	6,425	3,200	3,155

Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
	Others			

Layout of work space

(The wider the work space is, the more easily you can work. At least the following space 25 m \times 30 m is necessary.)



Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	<u>د</u>				
	Others				

Necessary tools and equipment

1. Necessary tools

No.	Tool name	Specification	Q'ty	Remarks
		Spanner, ring wrench, socket wrench, chisel		
1	General standard tools	Screwdriver, hammer, adjustable wrench, hexagonal wrench, etc.	2	
2	Power wrench	16-time	1	Front and rear axle mounts, ROPS canopy mount
3	Power wrench	4-time	1	Fuel tank mount
4	Socket	60 (Socket: 38.1), L: 84	1	For front and rear axle mounts
5	Socket	36 (Socket: 25.4), L: 68	1	For rear axle support cover, tire, and counterweight
6	Socket	46 (Socket: 25.4), L: 72	1	For fuel tank and counterweight
7	Socket	55 (Socket: 38.1), L: 82	1	ROPS mount
8	Socket	55 (Socket: 25.4), L: 82	1	ROPS mount
9	Extension bar	Insertion angle: 12.7, L: 150	1	For fuel tank
10	Adapter	Insertion angle: 19, 12.7, L: 55	1	For fuel tank
11	Extension bar	Insertion angle: 25.4, L: 160	1	For tire, counterweight, and ROPS canopy
12	Preset-type torque wrench (socket type)	39.2 - 274.6 Nm {4 - 28 kgm}	1	For power wrench
13	Preset-type torque wrench with replaceable head	58.8 - 137.3 Nm {6 - 14 kgm}	1	For connecting hose/tube
14	Preset-type torque wrench with replaceable head	19.6 - 44.1 Nm {2 - 4.5 kgm}	1	For connecting hose/tube
15	Preset-type torque wrench with replaceable head	29.4 - 68.6 Nm {3 - 7 kgm}	1	For connecting hose/tube
16	Preset-type torque wrench with replaceable head	Width across flats: 27 (Socket: ø 15), 9 (Socket ø12) 22 (Socket: ø 15), 9 (Socket ø12)	1 each	For connecting hose/tube
	(spanner type)	22 (Socket: ø 12), 24 (Socket ø12), 36, 41		
17	Preset-type torque wrench (socket type)	196.1 - 1,372.9 Nm {20 - 140 kgm}	1	For rear axle support cover, counterweight
18	Preset-type torque wrench (socket type)	490.3 - 2,059.4 Nm {50 - 210 kgm}	1	For counterweight
19	Preset-type torque wrench (socket type)	58.8 - 411.9 Nm {6 - 42 kgm}	1	For rear axle support cover
20	Impact wrench	GT-P8M or equivalent	1	
21	Impact wrench	GT-P14M or equivalent	1	
22	Impact wrench	GT-S22M or equivalent	1	For tire and ROPS canopy
23	Adapter	Insertion angle: 19, 25.4, L: 71	1	For power wrench and torque wrench
24	Adapter	Insertion angle: 12.7, 9.5, L: 41	1	For power wrench and torque wrench
25	Large hammer	10 lb	1	
26	Pneumatic grinder	—	1	
27	Bar	Large, medium, and small	2 each	For adjusting hole and moving heavy part
28	Pointed steel bar	—	2	For adjusting hole
29	Grease gun (Hand pump type)	Capacity: About 300 cc	1	Supplying grease to pin
30	Oil pitcher	Capacity: 1,000 - 2,000 cc	1	Bleeding air from brake line
31	Vinyl hose	Inside diameter: 6.5 - 7.0, L: 1,000 - 1,500		Bleeding air from brake line
32	Preset-type torque wrench with replaceable head	196.1 Nm {20 kgm}	1	For connecting tube/hose
33	Preset-type torque wrench with replaceable head	176.5 Nm {18 kgm}	1	For connecting tube/hose

Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	Others				

Necessary tools and equipment

2. Necessary equipment

1	Crane	Min. 490 kN {50 t}	2	
3	Forklift	Min. 19.6 kN {2 t}	1	
4	Compressor	Capacity: Min. 32 l	1	Impact wrench, bleeding air from brake system
5	Lever block	1 t	3	For holding cylinder and drive shaft
6	Stepladder (Work bench)	4 steps (About 1.6 m)	3	For work
7	Steel plate	(Large) 9 × 1,219 × 2,438	4	For positioning bare machine
8	Steel plate	(Large) 25 × 250 × 600	4	For positioning bare machine
9	Wool block	400 × 400 × 900	14	For positioning bare machine
9		200 × 400 × 800	4	For positioning bare machine
10	Pneumatic grease gun	Capacity: 18 l	1	
11	Air conditioner refrigerant charger	Gauge, manifold, leak tester	1	
12	Circuit tester		1	

3. Necessary slings

No.	Sling name	Specification	Q'ty	Remarks	
1	Front frame sling	2-point sling (L: 2,250, Chain diameter: ø20, Sling hook (SL))	1	See figure below	
2	Rear frame sling	Balance 2-point sling (Chain diameter: ø20, Sling hook (SL))	1	See figure below	
3	Rear axle sling	2-point sling (L: 5,500, Chain diameter: ø16, Crab hook (G))	1	See figure below	
4	Nylon sling	500 × 2000	2	Holding axle support and cylinder	
5	Front/Rear axle sling	Balance 2-point sling (Chain diameter: ø16, Sling hook (SL))	1	See figure below	
- 5	FIGHT/Real axie sling	Balance 2-point sling (Chain diameter: ø12.5, Sling hook (G))			
6	Drive shaft nylon sling	50 × 5000	1	See figure below	
7	Fuel tank sling	2-point sling (L: 5,000, Chain diameter: ø6.3, Sling hook (SL))	2	See figure below	
8	Floor and cab assembly sling	2-point sling (L: 2,000, Chain diameter: ø6.3, Sling hook (SL))	2		
9	Nylon sling	150 × 10000	1	Tire sling	
10	Wire sling	Capacity: 147 kN {15 t}, L: 2,500	2	Removing wood block from chassis (Raising front)	
	-	Capacity: 107.8 kN {11 t}, L: 2,000	1	Lift arm sling	
11	Shackle	For 19.6 kN {2 t}, 49 kN {5 t}, 98 kN {10 t}, and 147kN{15 t}	2 each	Lift arm sling	
12	Eyebolt	Upper: 2 pieces, Lower: 2 pieces			
13	Nylon sling	25 × 2000			

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1. Front frame sling

Chain diam φ20

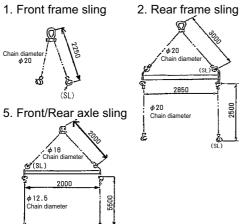
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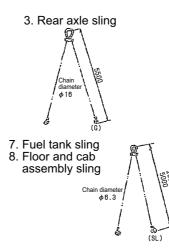
(SL) في

¢12.5 Chain diam

ė_(G)

φ16





Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	φ				
	Others				

Assembly process. No. A-70 List of oils, greases, and paints

4. Oils, greases, etc.

No.	Oil/Grease	Specification	Q'ty
1	Extreme pressure molybdenum disulfide grease	(KES LM-P)	500 mℓ
2	Extreme pressure molybdenum disulfide grease	(KES LM-G)	10 <i>l</i>
3	Fuel	Diesel fuel	Proper quantity (Full: 1,200 ℓ)
4	Touchup paint	Black	
5	Air conditioner refrigerant	R134a refrigerant can (400 g)	1 can
6	Windshield washer fluid	Product of SEIKEN KAGAKU	1 ℓ can × 2

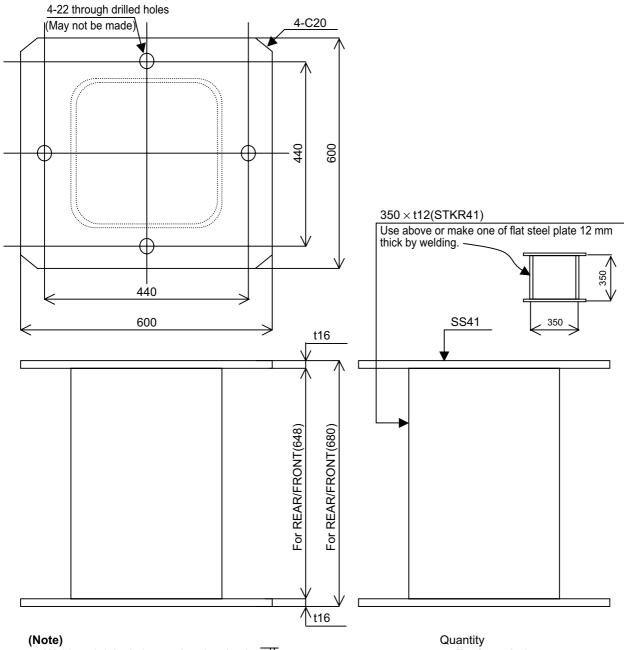
When the front and rear frames are separated, add the following oil.

No.	Oil/Grease	Specification	Q'ty
1	Hydraulic oil	(KES EO10-CD)	1,000 <i>l</i>

5. Protection gears

Work clothes, safety boots, helmet, cotton gloves, goggles, and raincoat

Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	Others				



Weld each joint in instruction drawing by $\overline{9/}$.

Quantity For front: 2 pieces For rear: 2 pieces

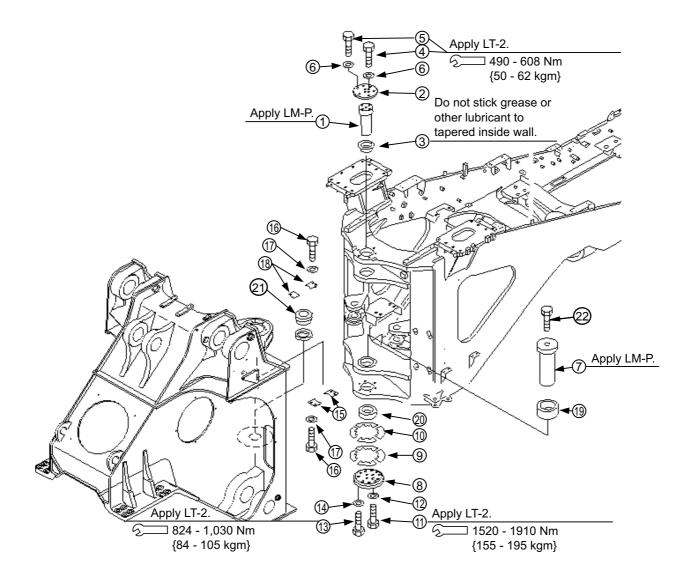
Precautions	Special too	ols	Necessary equipn	nent
	Name	Q'ty	Name	Q'ty
Block may be used instead of the above.				
Prepare them, however, so that height will be the same at 4 places.				
	Others	· · ·		

	5 6 7 8		Installing step handrails and battery box	490 kN {50ton}						
	1 2 3 4		Installing fuel tank and cab	490 kN {50ton}						
2nd day	1 2 3 4 5 6 7 8	Crane Crane Frame assembly stand to the frame assembly stand to the frame assembly stand to the frame assembly to the frame assembly to the frame assembly believed to the frame assembly to the frame	Positioning axles Installing tires	490 kN {50ton} 490 kN {50ton} 490 kN {50ton}	5 workers	en coupled.	5th day 5th day 1 2 3 4 5 6 7 8		Checking touchup paint	
1st day	1 2 3 4 5 6 7 8	Crane Crane Frame assembly all of the content of th	Positioning chassis Coupling frames	490 kN (50ton) 490 kN (50ton) 490 kN (50ton)	5 workers	This process is not necessary, if the front and rear frames have been coupled. (Process for transportation posture in Japan)	4th day 4th day 7 8		Installing counterweight, Installing, checking, ROPS, and boom and adjusting bucket	
Day	ЛОЦ	Condition of chassis	Rough assembly work	Crane	Worker	у н е	Day	Condition of chassis	Rough assembly work	Crane

2 workers

5 workers

Worker



No.	Part No.	Part name	Q'ty
1	427-46-11161	Shaft	1
2	427-46-11190	Retainer	1
3	427-46-11440	Bushing	1
4	01010-62065	Bolt	4
5	01010-62070	Bolt	6
6	01643-32060	Washer	10
7	427-46-11312	Shaft	1
8	427-46-11431	Retainer	1
9	427-46-11411	Shim 0.1	20
10	427-46-11421	Shim 0.5	24
11	01011-63065	Bolt	4
12	01643-33080	Washer	4
13	01010-62495	Bolt	10
14	01643-32460	Washer	10
15	427-46-11150	Plate	2
16	01010-61025	Bolt	8
17	01643-31032	Washer	8
18	427-46-11330	Plate	2
19	427-46-11480	Bushing	1
20	427-46-11490	Bushing	1
21	427-46-11321	Bushing	1
22	01010-63075	Bolt	1
			-

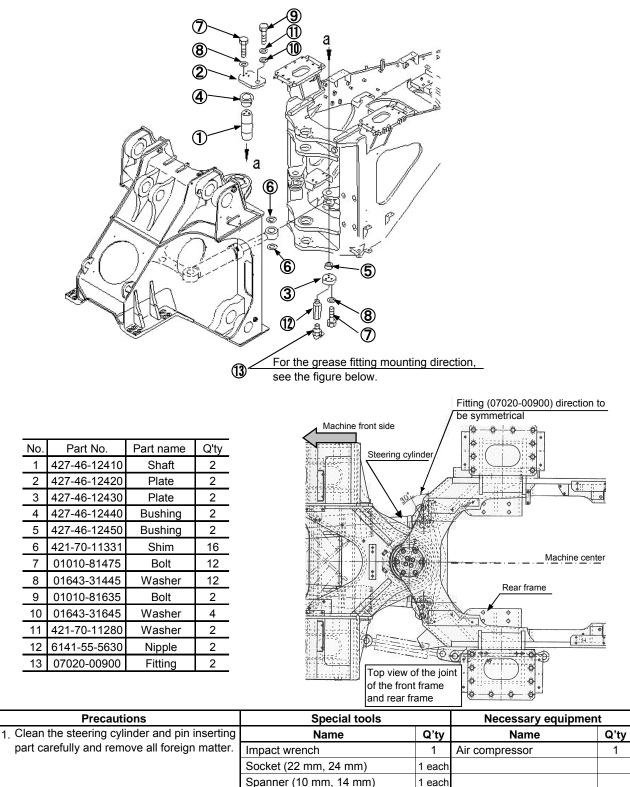
Procedure for coupling front and rear frame

- 1. Check that bushings ((19): 427-46-11480 and (20): 427-46-11490) are press fitted to rear frame.
- 2. Check that bushing ((21): 427-46-11321) is installed to the hinge at the lower part of the front frame.
- 3. Check that bushing ((3): 427-46-11440) is installed to the hinge at the upper part of the rear frame.
- 4. Install retainer ((2): 427-46-11190) to the upper pin. Tightening torque: 490 608 Nm {50 62 kgm}
- 5. Put the front frame between the rear frame hinges and insert the upper pin. Tightening torque: 490 608 Nm {50 62 kgm}
- 6. Insert the lower pin and bushing in the lower hinge and install the retainer.
- 7. Set a jack under the lower hinge of the front frame and fit the rear frame and bushing to each other and eliminate the clearance between them.
- 8. Tighten the lower hinge and retainer mounting bolts (13) and (11) to 824 1,030 Nm {84 105 kgm} (M24) or 1,520 1,910 Nm {155 195 kgm} (M30), and then hit the lower pin head with a copper hammer 3 5 times.
- **9.** Repeat step 8 3 times to fit each joint, and then retighten bolts (13) and (11) to 824 1,030 Nm {84 105 kgm} (M24) and 1,520 1,910 Nm {155 195 kgm} (M30).
- 10. Remove all bolts (13) and measure the clearance between the retainer and frame with feeler gauges at 3 places on the periphery (at the intervals of 120°) and calculate the average. Combine the shims so that the average clearance will be 0.08 0.18 mm. The total thickness of the shims must not exceed each of the measured clearances, however.
- 11. Taking care not to move the front frame, remove bolts (13) and (11) and insert the shims combined in step 10.
- 12. Perform steps 8 and 9.
- **13.** Pull out bolts (13) and (11) one by one, apply LT-2 to them, and tighten them to the specified torque. (Degrease the threads and taps perfectly.)
- **14.** Perform steps 8 and 9 (Apply the tightening torque for M20, however) and 13 for upper pin bolts ((5):01010-62070, (4):01010-62065).
- 15. Remove the jack from under the lower hinge of the front frame.
- ★ After finishing the work, apply the safety lock bar and fix the chassis so that the chassis will not articulate, and then perform setting in Procedure No. B-50.

Precautions	Special tools	Necessary equipment
\star When assembling, supply sufficient	Name	Name Q'ty
amount of grease to inside of bearings.	Impact wrench (Sockets: #17, #30 #36. and #46)	[,] 50 ton crane 2
★ After assembling, supply grease to the upper hinge and lower hinge shafts until	Torque wrench (Sets: 549, 927, ar 1,715 Nm {55.9, 94.5 and 174.8 kg	nd Slings 1 gm}) (for front frame and rear frame) each
it comes out of the dust seals.	Jack, feeler gauge, copper hamme	
★ Touch up the black bolts and machined surfaces.	Other tools	
	Others	

Assembly process. No. B-20A Installing steering pin (1/4)

1. Remove (1) - (13) being temporarily installed on the rear frame assembly.



Torque wrench

Plastic hammer

Others

98Nm{10kgm}set、147Nm{15kgm}set、 177Nm{18kgm}set、196Nm{20kgm}set

(Size: No.B-20A (4), see Fig. 2) Ratchet wrench (Length= 200) 1 each

1

1

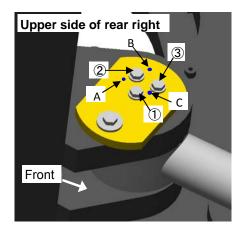
Assembly process. No. B-20A Installing steering pin (2/4)

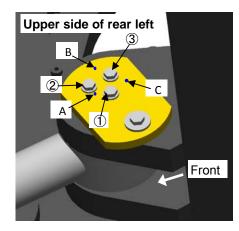
- 2. Assemble steering cylinder pin by referring to the following figure in accordance with the following procedure.
- (1) Assemble taper collets on the upper side and steering cylinder pin, and then assemble taper collets on the lower side and steering cylinder pin.
- (2) Tightening of bolts on the upper side (make sure to read precautions of NO.B-20A (4) beforehand)
 - (a) Tighten bolts <1>, <2>, and <3> by using ratchet wrench with tightening torque of approximately 39Nm {4kgm} each until seat surface of those bolts come in contact.

(Tightening torque of 39Nm {4kgm}: Tightening with operating effort of 196Nm {20kg} by using ratchet wrench as a reference)

After that, tighten bolts in three places in clockwise in order of <1>, <2>, <3>, <1>, <2>, <3> and so on, with tightening torque of approximately 39Nm {4kgm} by using ratchet wrench until it becomes immovable.

- (b) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 98Nm {10kgm}. Perform this work one round
- (c) Check the clearance between the taper collets and frame (NO.B-20A (4) Fig.3: Y). Tap points of A or B or C twice by using plastic hammer to equalize the clearance and to correct the inclination of taper collets. After that, tap points of A, B, and C twice of each by using a plastic hammer. Perform this work two rounds.
- (d) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 98Nm {10kgm}. Perform this work three rounds.
- (e) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 147Nm {15kgm}. Perform this work three rounds.
- (f) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 177Nm {18kgm}. Perform this work three rounds.
- (g) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 196Nm {20kgm}. Perform this work three rounds.
- (h) Loosen bolt <1> once, apply Loctite262, and tighten it by using torque wrench which is set at 177Nm {18kgm}. Loosen bolt <2> once, apply Loctite262, and tighten it by using torque wrench which is set at 177Nm {18kgm}. Loosen bolt <3> once, apply Loctite262, and tighten it by using torque wrench which is set at 177Nm {18kgm}.
- (i) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 177Nm {18kgm}. Perform this work three rounds.





Precautions	Special tools		Necessary equipment		
1. Clean the steering cylinder and pin inserting	Name	Q'ty	Name	Q'ty	
part carefully and remove all foreign matter.	Impact wrench	1	Air compressor	1	
	Socket (22 mm, 24 mm)	1 each			
	Spanner (10 mm, 14 mm)	1 each			
	Torque wrench	1 each			
	98Nm{10kgm}set、147Nm{15kgm}set、				
	(Size: No.B-20A (4), see Fig. 2)				
	Plastic hammer	1			
	(Size: No.B-20A (4), see Fig. 2)				
	Ratchet wrench (Length= 200)	1			
	Others				

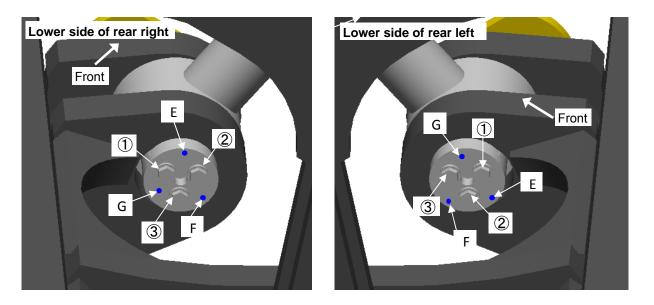
Assembly process. No. B-20A Installing steering pin (3/4)

- (3) Tightening of bolts on the lower side (make sure to read precautions of NO.B-20A (4) beforehand)
 - (a) Tighten bolts <1>, <2>, and <3> by using ratchet wrench with tightening torque of approximately 39Nm {4kgm} each until seat surface of those bolts come in contact.

(Tightening torque of 39Nm {4kgm}: Tightening with operating effort of 196Nm {20kg} by using ratchet wrench as a reference)

After that, tighten bolts in three places in clockwise in order of <1>, <2>, <3>, <1>, <2>, <3> and so on, with tightening torque of approximately 39Nm {4kgm} by using ratchet wrench until it becomes immovable.

- (b) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 98Nm {10kgm}. Perform this work one round
- (c) Tap points of E, F, and G twice of each by using a plastic hammer. Perform this work two rounds.
- (d) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 98Nm {10kgm}. Perform this work three rounds.
- (e) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 147Nm {15kgm}. Perform this work three rounds.
- (f) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 177Nm {18kgm}. Perform this work three rounds.
- (g) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 196Nm {20kgm}. Perform this work three rounds.
- (h) Loosen bolt <1> once, apply Loctite262, and tighten it by using torque wrench which is set at 177Nm {18kgm}. Loosen bolt <2> once, apply Loctite262, and tighten it by using torque wrench which is set at 177Nm {18kgm}. Loosen bolt <3> once, apply Loctite262, and tighten it by using torque wrench which is set at 177Nm {18kgm}.
- (i) Tighten bolts in three places in clockwise in order of <1>, <2>, and <3> by using torque wrench which is set at 177Nm {18kgm}. Perform this work three rounds.

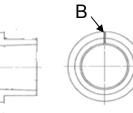


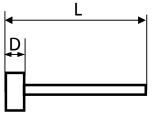
Precautions	Special tools		Necessary equipme	ent
1. Clean the steering cylinder and pin inserting	Name	Q'ty	Name	Q'ty
part carefully and remove all foreign matter.	Impact wrench	1	Air compressor	1
	Socket (22 mm, 24 mm)	1 each		
	Spanner (10 mm, 14 mm)	1 each		
	Torque wrench	1 each		
	98Nm{10kgm}set, 147Nm{15kgm}set,			
	(Size: No.B-20A (4), see Fig. 2)			
	Plastic hammer	1		
	(Size: No.B-20A (4), see Fig. 2)			
	Ratchet wrench (Length= 200)	1		
	Others			

Assembly process. No. B-20A Installing steering pin (4/4)

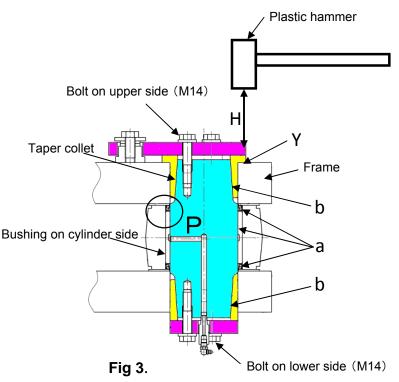
(4) Precautions

- (a) Assemble it with the slit of taper collet (Fig.1:B) facing to inside the machine.
- (b) Make sure that clearance between frame and taper colltet (Fig.3: Y) is even when it is temporarily assembled before starting tightening.
- (c) Make sure that clearance described above is even when it is being tightened and after tightening.
- (d) Use a plastic hammer of size shown in Fig.2. (It is called as 11/2)
- (e) Tap by using a plastic hammer until the height becomes 150mm. (Fig.3: dimension H)
- (f) For bolts and thread hole, perform the work after degreasing.
- (g) Apply LM-P to inner surface of bushing on the cylinder side and dust seal lip before assembling the pin. (Fig.3. a) Install dust seal with its out. (Fig.3.P view)
- (h) Do not allow any of lubricant such as grease to be attached to pin portion and taper portion of taper collet. (Fig.3.b)





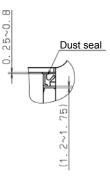




Plastic hammer [mm]

	D	L		
Dimension	38	320		



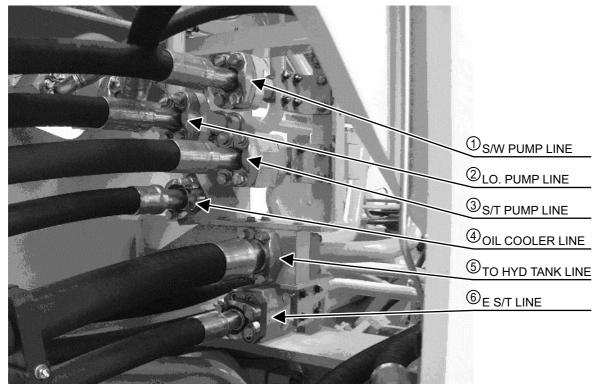


Detail of P

Precautions	Special tools	Necessary equipment		
1. Clean the steering cylinder and pin inserting	Name	Q'ty	Name	Q'ty
part carefully and remove all foreign matter.	Impact wrench	1	Air compressor	1
	Socket (22 mm, 24 mm)	1 each		
	Spanner (10 mm, 14 mm)	1 each		
	Torque wrench	1 each		
	98Nm{10kgm}set、147Nm{15kgm}set、			
	(Size: No.B-20A (4), see Fig. 2)			
	Plastic hammer	1		
	(Size: No.B-20A (4), see Fig. 2)			
	Ratchet wrench (Length= 200)	1		
	Others			

No. Part No. Part name	
	Q'ty
<u>1 427-46-22530 Guard</u> 2 01010-82045 Bolt	1 2
3 01643-32060 Washer	2
S 343 - 427 Nm (35.0 - 43.5 kgm) Center support Center supp	r
The Him (4	
No. Part No. Part name Q'ty	
4 427-70-12112 Shaft 1 5 01050-61895 Bolt 8 Install front and rear	
5 01050-61895 Bolt 8 Install front and rear fittings in same direction.	

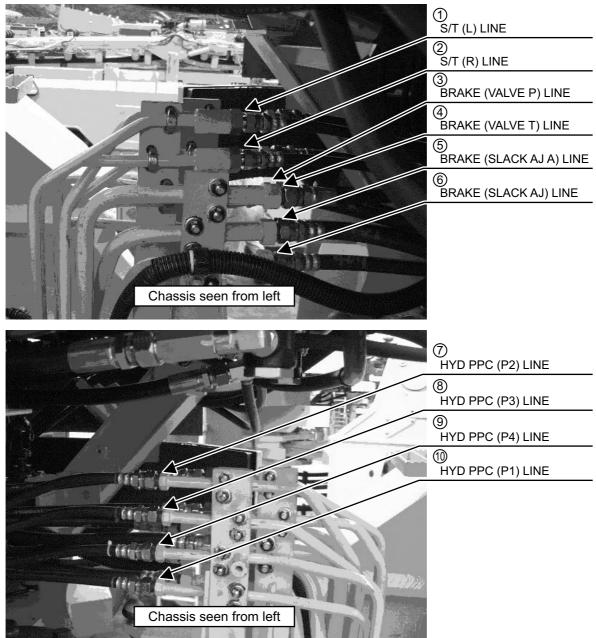
	Precautions	Special tools		Necessary equipm	nent
		Name	Q'ty	Name	Q'ty
1.	Clean the drive shaft installing surface carefully and remove all foreign matter.	Impact wrench	1	Air compressor	1
2	After the work, touch up the black bolts	Socket (27 mm, 30 mm)	1 each		
	so that they will not rust.	Torque wrench (385 Nm set)	1		
		Others			



- ★ Connect the hoses for lines (1) (6).
 (Do not connect the hoses for the 6 lines simultaneously, but perform following steps 1 4 for each line at a time.)
- 1. Remove the pipe plugs.
- 2. Check that foreign matter is not sticking.
- 3. Check that no O-rings are damaged.
- 4. Connect the hoses. (Tighten the bolts according to KES 04.123.1 Impact wrench.)

	For (1), (2), (3)	For (4), (6)	For (5)
Sleeve head	07378-11410 (3)	07378-11400	07378-12400
Flange	07379-01470 (3)	07379-01460	07379-02484
O-ring	07000-03048 (3)	07000-E3048	07000-F2070
Split flange	07371-51470 (6)	07371-31465 (2)	07371-12484 (2)
Bolt	01010-81460 (12)	07372-21240 (4)	07372-21240 (4)
Washer	01643-31445 (12)	01643-31030 (4)	01643-51232 (4)

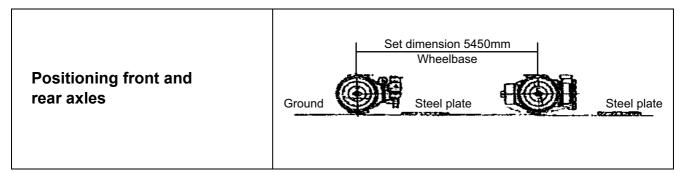
Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
After connecting the piping, if oil sticks to the peripheral parts, wipe it off.	Impact wrench	1	Air compressor	1
	Socket (19 mm, 22 mm)	1 each		
	Others			



- ★ Connect the hoses for lines (1) (10).
 (Do not connect the hoses for the 10 lines simultaneously, but perform following steps 1 3 for each line at a time.)
- 1. Remove the pipe plugs.
- 2. Check that foreign matter is not sticking.
- 3. Connect the hoses. (Tighten the hose joints according to KES D07102 and D07108.)

Preca	utions	Special tools		Necessary equipment	
A.C		Name	Q'ty	Name	Q'ty
After connecting the peripheral parts, w		Torque wrench (Sets: 49 Nm and 78.5 Nm {499.6 and 800.5 kgm})	1 each		
(03) for (1), (2), (7),	(8), (9), and (10)				
Plug	07376-50315 (6)				
Sleeve nut	07211-20315 (6)				
Plug for sleeve nut	07222-00312 (6)				
(04) for (3), (4), (5),	and (6)				+
Plug	07376-50422 (4)				
Sleeve nut	07211-20422 (4)				
Plug for sleeve nut	07222-00414 (4)	Others			

Assembly process. No. B-50 Positioning axles and installing supports

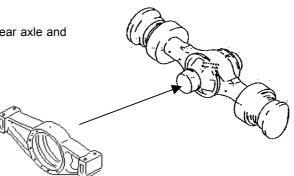


Position the front axle assembly and rear axle assembly (having the axle support) to the wheelbase of 5,450 mm in the chassis assembly area as shown in the above figure.

Cleaning and greasing inside of rear axle support

Thoroughly wipe the inside of the rear axle support with cloths and apply grease to the inside wall of the bushing.

Fit the rear axle support to the rear axle and secure it with wires, etc.



Support Hanging load: 2.9 kN {300 kg}, 2 pieces of 50 × 2,000 nylon sling

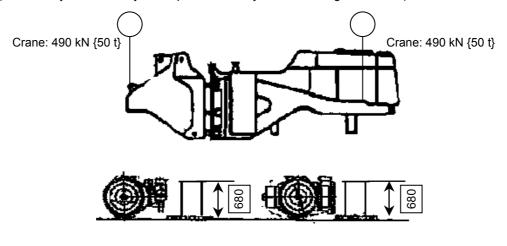
Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
Secure the support with wires, etc. (to prevent it from vibrating and coming out)				
	Others	1 1		

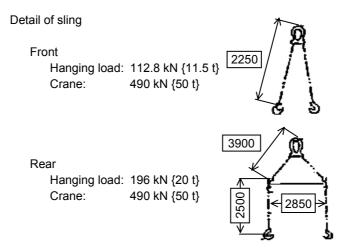
Sling the bare machine of the front and rear frames with 2 cranes and position it onto the frame and rear axles.

Using the lifting eyes of the frames, sling the bare machine with 2 490 kN {50-t} cranes.

Position the bare machine on the frame stand so that you can install the tire and wheel assemblies. When positioning the bare machine on the ground, place steel plates under the wood blocks to prevent the bare machine from sinking or slanting. Use 2 steel plates of size of 1,219 × 2,438 × 9 (thick).

★ Position the bare machine on a flat place so that it will not slant in any direction at all. (If it slants, you cannot adjust the pin holes easily when installing the lift arm.)



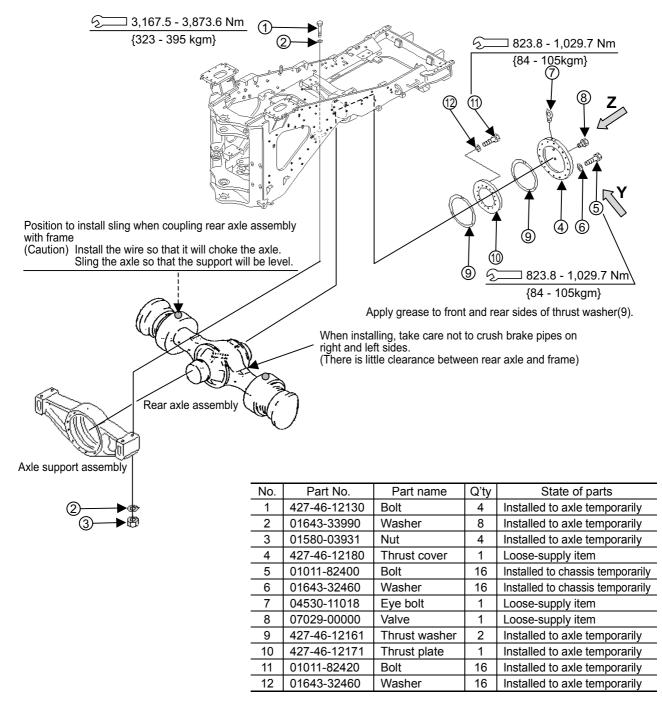


Precautions	Special tools		Necessary equipm	Necessary equipment	
	Name	Q'ty	Name	Q'ty	
	Others			ł	

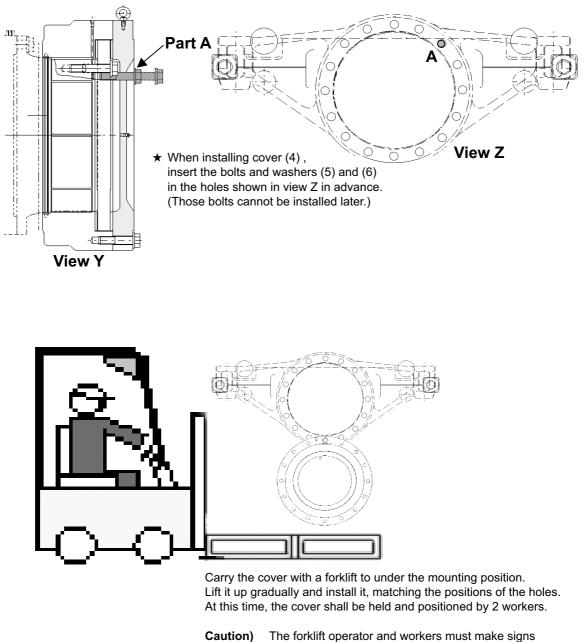
Assembly process. No. B-70 Installing rear axle

Sling the rear axle and couple it with the rear frame.

(Precautions for installing the cover are shown in the next page.)



Precautions	Special tools		Necessary equipr	Necessary equipment	
	Name	Q'ty	Name	Q'ty	
	Power wrench	1			
	Torque wrench	1			
	Socket 60 mm	1			
	Socket 36 mm	1			
	Others				



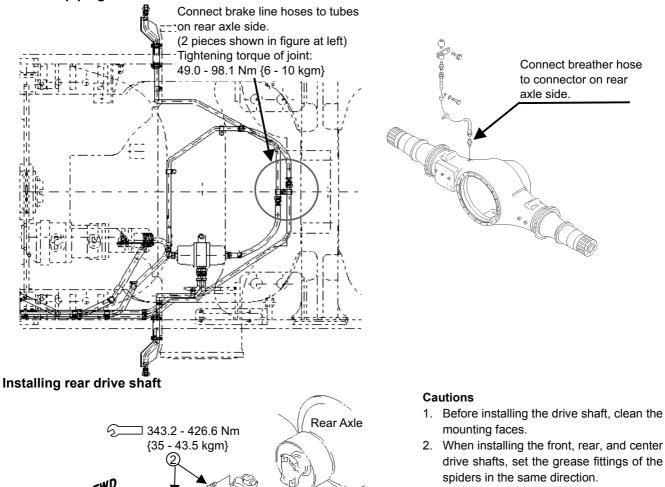
Caution) The forklift operator and workers must make signs securely while working.

Caution) Weight: 119 kg

Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
Since the cover is as heavy as 119 kg, install it carefully.				
-				
	Others			

Assembly process. No. B-90 Installing rear axle piping and drive shaft

Rear axle piping



3. Install each drive shaft with the male end on the front side.

Using nylon sling (50 × 5,000), pass drive shaft through center of frame, and then lift it up and position and install it with crane from above right platform.

Set male end on front side.

Transfei

No.	Part No.	Part name	Q'ty	State of parts
1	427-20-12210	R.P. shaft	4	Loose-supply item
2	01050-61895	Bolt	8	Installed to chassis and axle temporarily

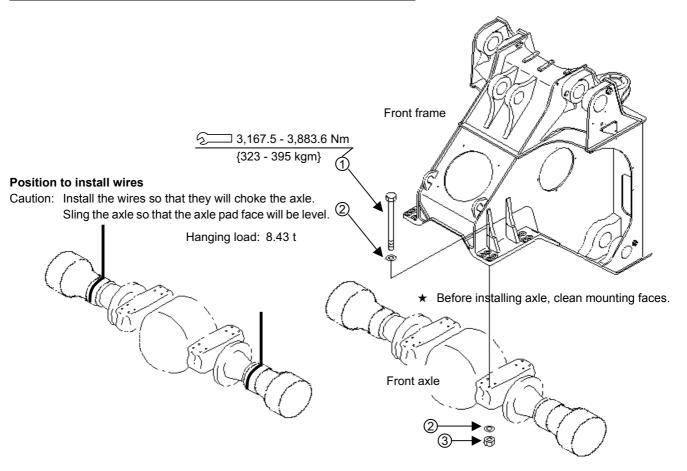
Supply grease (molybdenum disulfide grease) to grease fittings for axle support and drive shafts.

(1)

Precautions	Special tools		Necessary equipmen	t
	Name	Q'ty	Name	Q'ty
	Others			·

Assembly process. No. B-100 Installing front axle

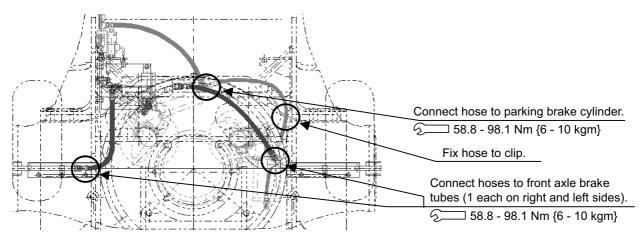
No.	Part No.	Part name	Q'ty	State of parts
1	427-46-1452	Bolt	16	Installed to axle temporarily
2	01643-33990	Washer	32	Installed to axle temporarily
3	01580-03913	Nut	16	Installed to axle temporarily



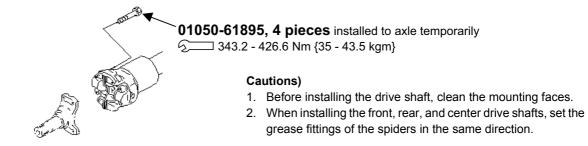
Precautions	Special tools		Necessary equipm	ent
	Name	Q'ty	Name	Q'ty
	Others			

Assembly process. No. B-110 Installing front axle piping and connecting drive shaft

1. Connecting front axle hoses



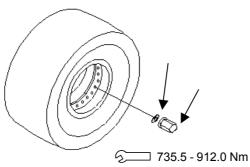
2. Connecting drive shaft



Supply grease (molybdenum disulfide grease) to grease fittings for axle support and drive shafts.

Precautions	Special tools		Necessary equipm	nent		
	Name	Q'ty	Name	Q'ty		
	ι δ					
	Others					

Installing wheel and tire assembly



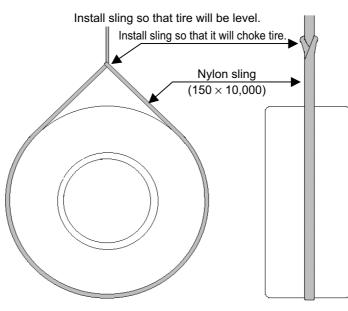
{75 - 93 kgm}

No.	Part No.	Part name	Q'ty	State of parts
1	426-22-12930	Nut	106	Loose-supply item
2	01643-32460	Washer	106	Loose-supply item

 Lift up the tire with a crane, install it to the axle, and install the mounting nuts. Before installing the mounting nuts, remove grease from the stud bolts.

Take care not to damage the air supply tube.

- **2.** Tighten the tire mounting nuts temporarily with an impact wrench.
- ★ Since the nuts are installed at high positions and they are large in number, you should use a balancer to hold the impact wrench for the ease of work.
 - Tighten the tire mounting nuts to the specified torque with a torque wrench.
- **3.** Put chocks under the tires and remove the wood blocks from under the chassis.

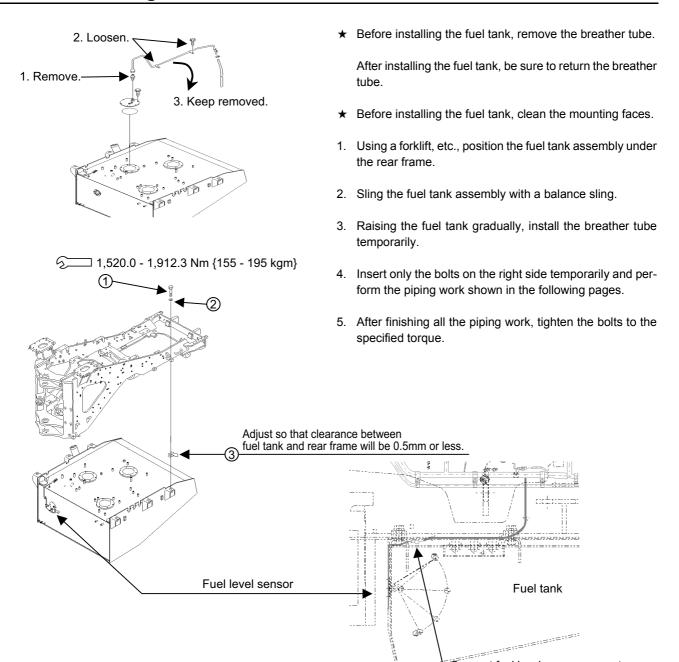


(Weight of tire and wheel assembly: 34.3 kN {3.5 t})

Precautions	Special tools		Necessary equipm	nent
Before installing, remove grease from the stud bolts. When positioning the wheel and tire assembly, take care not to damage the air supply	Name	Q'ty	Name	Q'ty
	36 mm socket	1		
	Torque wrench	1		
	Extension bar	1		
tube.				
	Others			

How to sling tire

Assembly process. No. B-130 Installing fuel tank



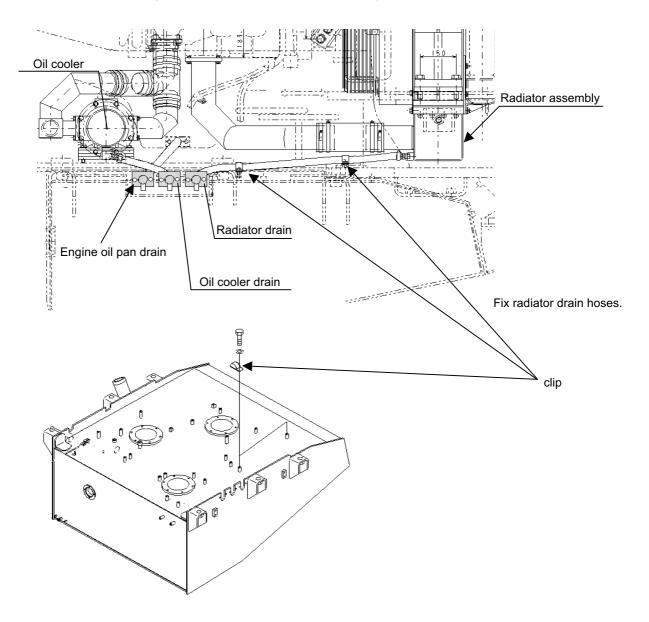
No.	Part No.	Part name	Q'ty	State of parts
1	01011-63000	Bolt	6	Installed to fuel tank mounting support temporarily
2	01643-33080	Washer	6	Loose-supply item
3	416-855-1190	Shim	10	Loose-supply item

Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Impact wrench	1		
	Power wrench (4-times wrench)	1		
	Torque wrench (Set: 431.5 Nm {44 kgm})	1		
	Extension	1		
	Socket: 46 mm	1		
	Others	• •		•

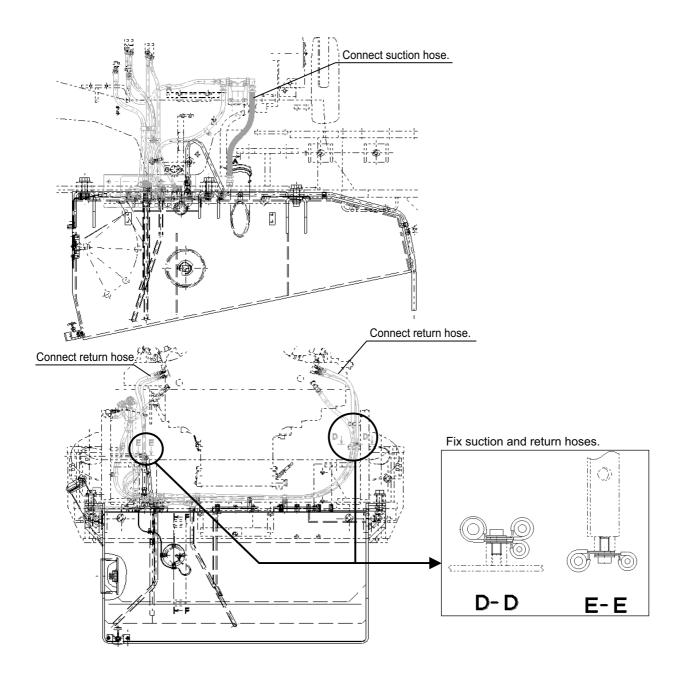
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Connect fuel level sensor connector.

 \star Use the drain tube mounting bolts installed to the fuel tank temporarily.

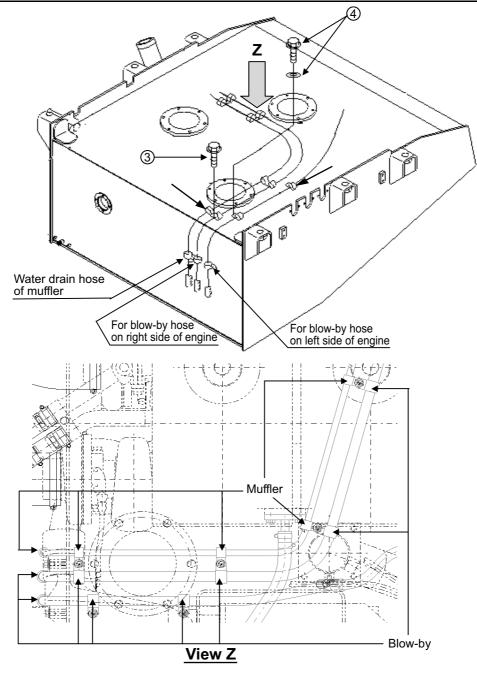


Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
	Others			



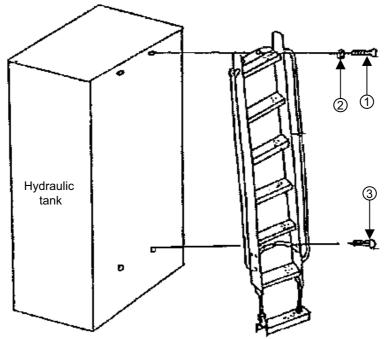
Precautions	Special tools		Necessary equipm	quipment		
	Name	Q'ty	Name	Q'ty		
	Impact wrench	1				
	Socket: 14 mm	1				
	SP-type torque wrench (24 × 49 Nm {5 kgm})	1				
	SP-type torque wrench (27 × 78.4 Nm {8 kgm})	1				
	Others	· ·		·		

Assembly process. No. B-160 Fixing drain hoses of engine



No.	Part No.	Part name	Q'ty	State of parts
1	08036-01814	Clip	5	Installed to fuel tank top temporarily
2	08036-02514	Clip	8	Installed to fuel tank top temporarily
3	01435-01016	Bolt	5	Installed to fuel tank top temporarily
4	01024-81016	Bolt	5	Installed to fuel tank top temporarily

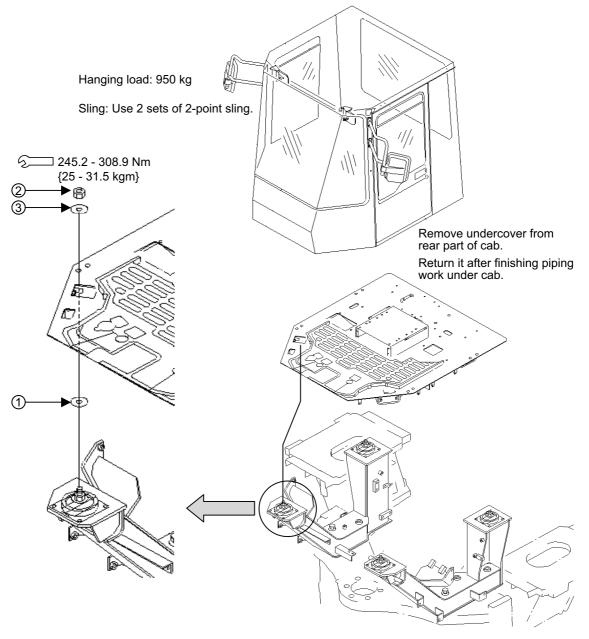
Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Others			



Install ladder to hydraulic tank (right).

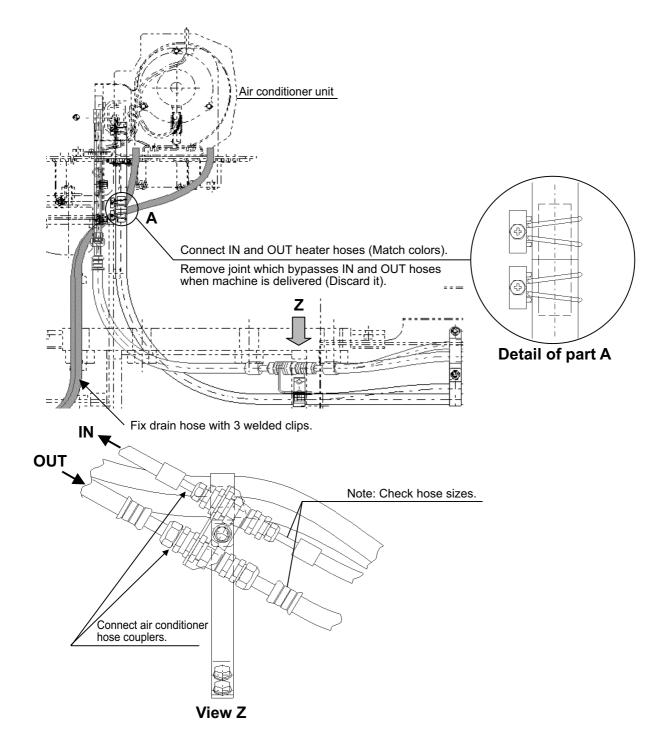
No.	Part No.	Part name	Q'ty	State of parts
1	01010-81635	Bolt	2	Installed to hydraulic tank temporarily
2	01643-31645	Washer	2	Installed to hydraulic tank temporarily
3	01435-01225	Bolt	2	Installed to hydraulic tank temporarily

Precautions	Special tools	Necessary equipment		
	Name	Q'ty	Name	Q'ty
	Others			



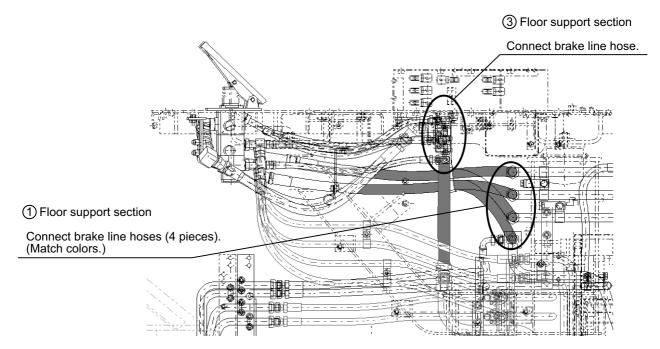
No.	Part No.	Part name	Q'ty	State of parts
1	421-54-23260	Plate	4	Installed to chassis temporarily
2	04596-01615	Lock nut	4	Installed to chassis temporarily
3	425-70-11290	Washer	4	Installed to chassis temporarily

Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	Others			I	

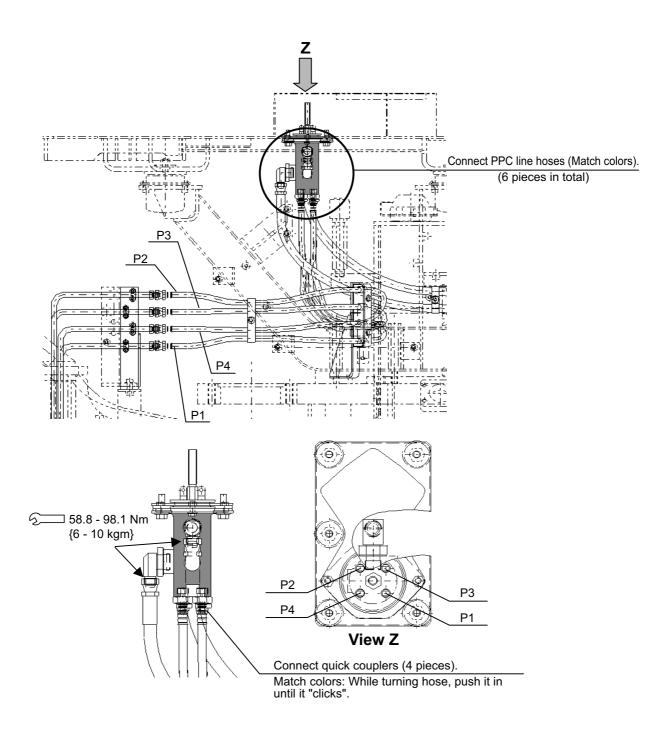


Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
	Others			

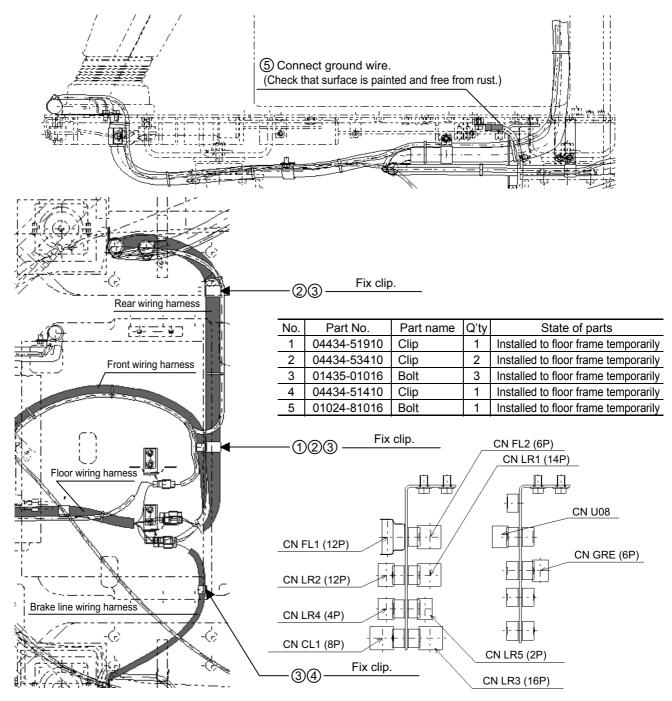
Assembly of cab and floor frame assembly



Precautions	Special tools	ecial tools Necessary eq		
	Name	Q'ty	Name	Q'ty
	(0)			
	Others			



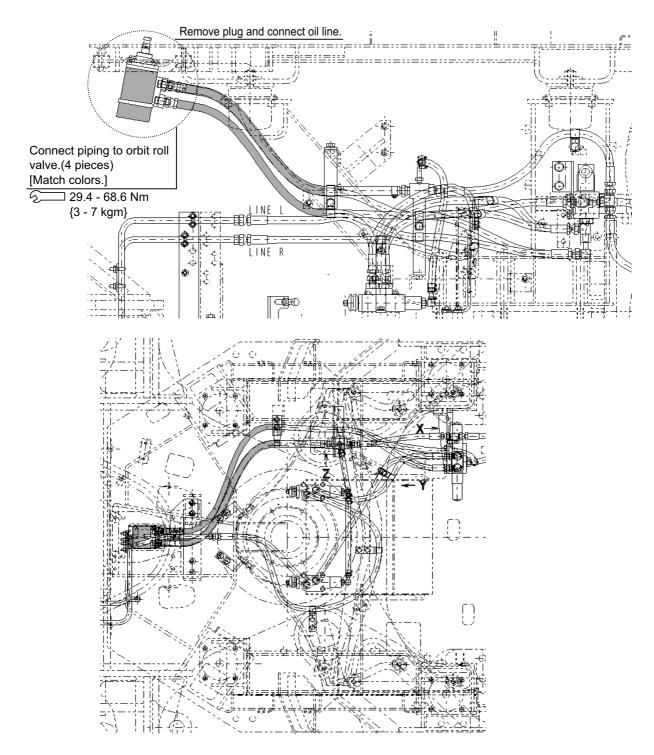
Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	Others				



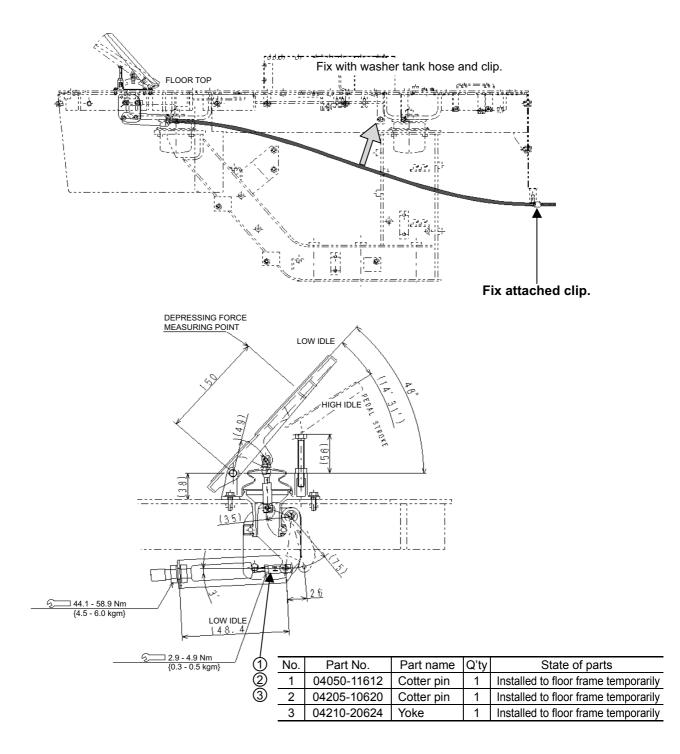
Connecting floor wiring harness (under rear part of floor frame)

Precautions		Special tools		Necessary equipment		
		Name	Q'ty	Name	Q'ty	
	Others					

Assembly process. No. B-230 Connecting steering oil line

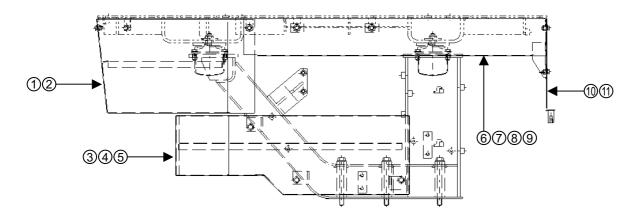


Precautions	Special tools	Special tools Necessary			
	Name	Q'ty	Name	Q'ty	
	Torque wrench (24 × 49 Nm {5 kgm})	1			
	Spanner (Hex: 24 mm)	1			
	Others				



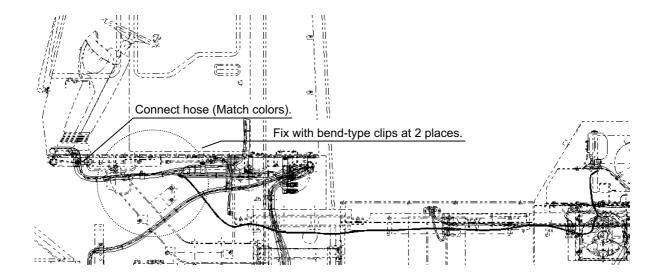
Precautions	Special tools		nent	
	Name	Q'ty	Name	Q'ty
	Others			

Installing floor cover



No.	Part No.	Part name	Q'ty State of parts	
1	427-54-24311	Cover	1	Loose-supply item
2	01435-01020	Bolt	4	Installed to floor frame temporarily
3	427-54-24351	Cover (L.H.)	1	Installed to floor frame temporarily
4	427-54-24360	Cover (R.H.)	1	Installed to floor frame temporarily
5	01435-01220	Bolt	6	Installed to chassis temporarily
6	427-54-24320	Cover (L.H.)	1	Loose-supply item
7	427-54-24330	Cover (R.H.)	1	Loose-supply item
8	01435-01025	Bolt	6	Installed to floor frame temporarily
9	424-09-12650	Washer	6	Installed to floor frame temporarily
10	427-54-24341	Cover	1	Installed to floor frame temporarily
11	01435-01020	Bolt	7	Installed to floor frame temporarily

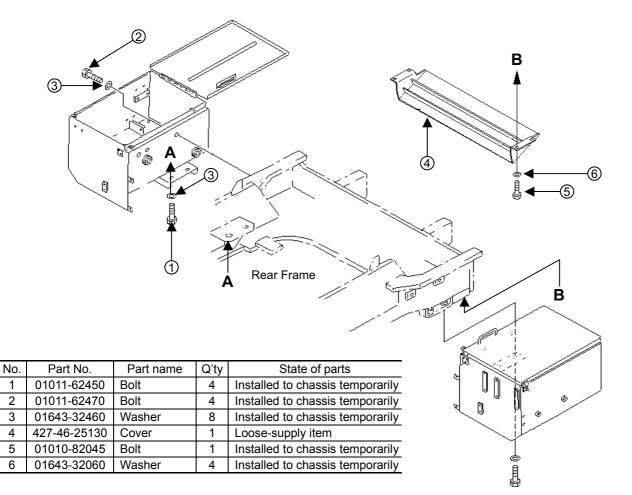
Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	S.				
	Others				



Supplying washer fluid

Open the cover at the front of the bulkhead and supply BEAR BLAND manufactured by SEIKENN KAGAKU or equivalent (1 ℓ container × 2) and city water (soft water).

Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
	Others			

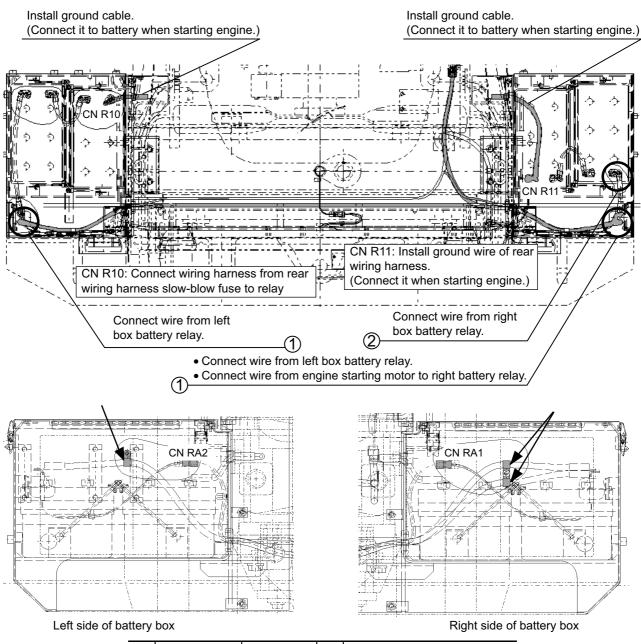


Tighten the battery box assembly temporarily at this time. Tighten it permanently after adjusting the clearance between it and counterweight and positioning it against the ladder.

Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Torque wrench 10000QLE (Torque: 824 - 1,030 Nm {84 - 105 kgm})	1		-
	Others			

Assembly process. No. B-280 Wiring battery

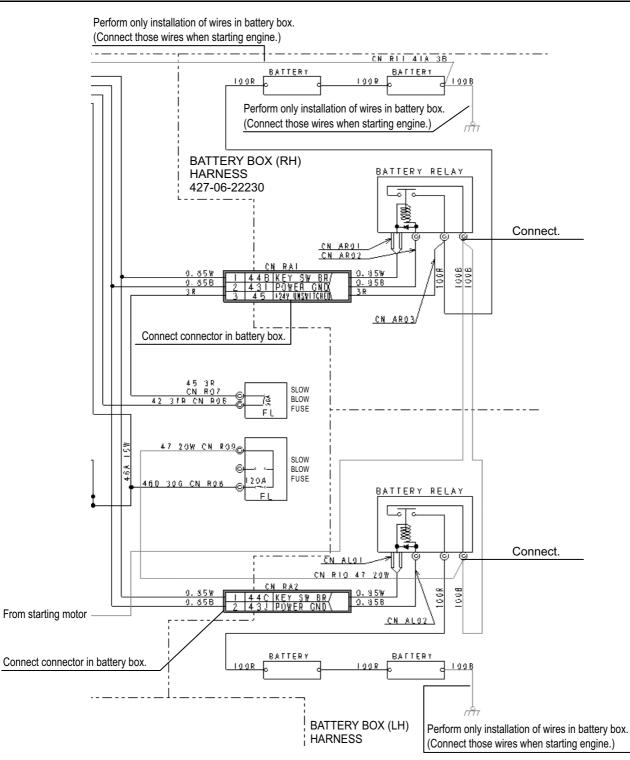
Connecting and fixing wires in battery box



No.	Part No.	Part name	Q'ty	State of parts
1	08038-00035	Сар	2	Installed to chassis temporarily
2	424-09-12540	Сар	1	Installed to battery box temporarily
3	04434-51910	Clip	3	Installed to battery box temporarily
4	01435-01016	Bolt	2	Installed to battery box temporarily

Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	Others	<u> </u>			

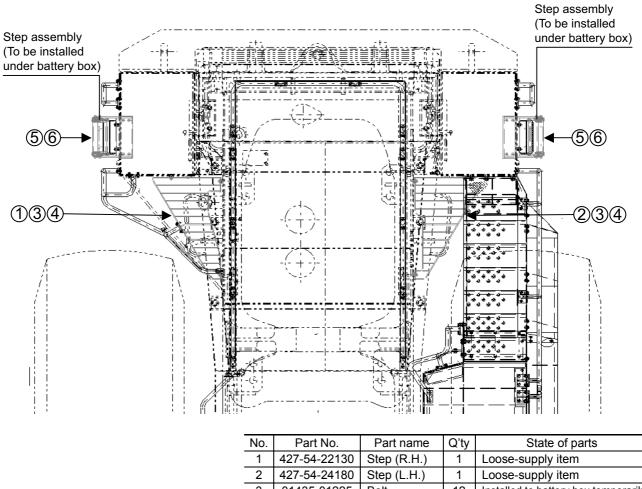
Assembly process. No. B-290 Wiring diagram for battery



Precautions	Special tools		Necessary equipm	ent
	Name	Q'ty	Name	Q'ty
	Others			

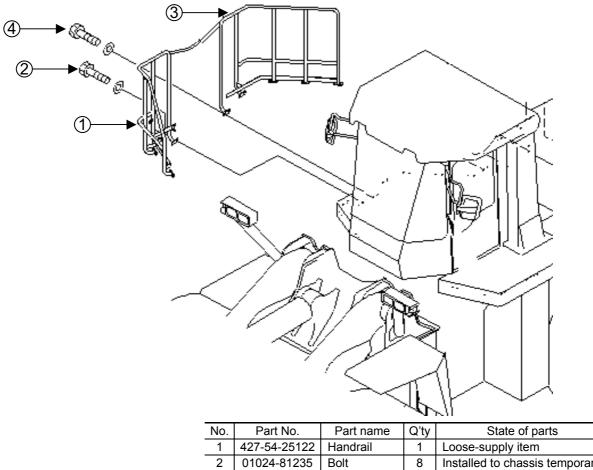
Assembly process. No. B-300 Installing battery step

Installing step assembly



2	427-54-24180	Step (L.H.)	1	Loose-supply item
3	01435-01225	Bolt	12	Installed to battery box temporarily
4	01643-31232	Washer	12	Installed to battery box temporarily
5	—	Step ass'y	2 Loose-supply item	
6	01435-01230	Bolt	8	Installed to battery box temporarily

Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Others			



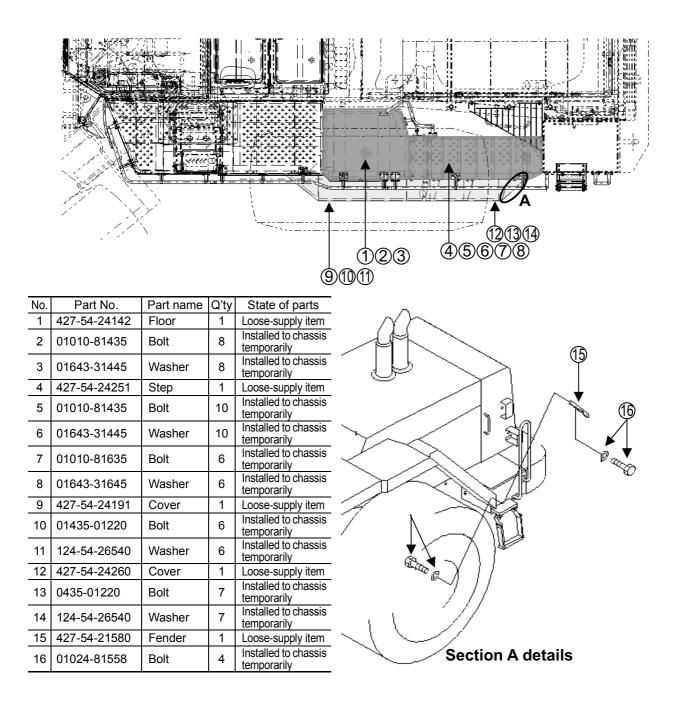
_	2	01024-81235	Bolt	8	Installed to chassis temporarily
	3	427-54-25141	Handrail	1	Loose-supply item
	4	01024-81235	Bolt	8	Installed to chassis temporarily

Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Others			

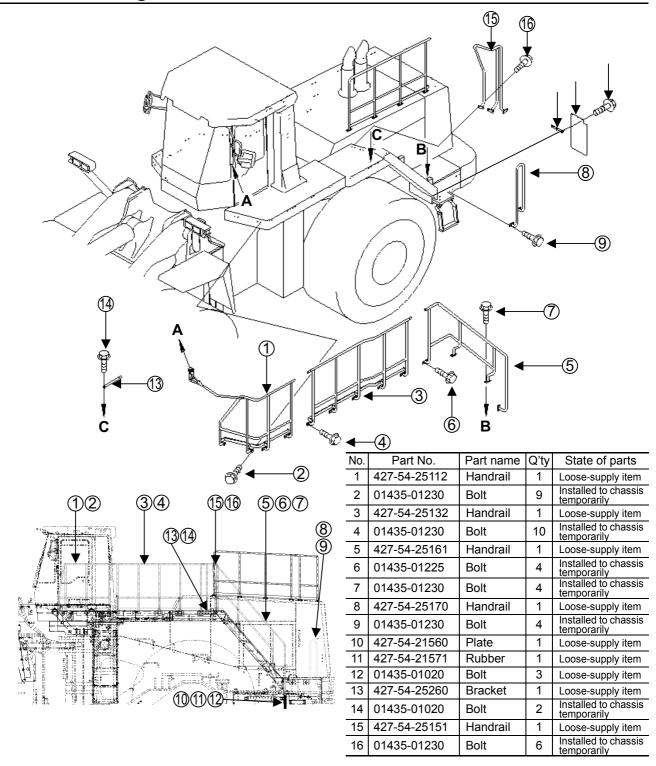
No.Part No.Part nameQ'tyState of parts1427-54-25191Handrail1Loose-supply item201024-81235Bolt6Installed to chassis41427-54-25210Handrail2Loose-supply item501024-81235Bolt16Installed to chassis6Installed to chassistemporarily6Installed to chassis7427-54-25220Handrail1101024-81235Bolt810427-54-25180Handrail11101024-81235Bolt41101024-81235Bolt413427-54-25230Handrail11401024-81245Bolt21501024-81235Bolt61401024-81235Bolt61501024-81235Bolt61501024-81235Bolt61501024-81235Bolt61501024-81235Bolt61501024-81235Bolt61501024-81235Bolt61501024-81235Bolt616Installed to chassis1701024-81235Bolt1810124-81235Bolt1910124-81235Bolt1910124-81235Bolt1910124-81235101024-8123511101024-812351210124-8123513 <td< th=""><th></th><th></th><th></th><th></th><th></th></td<>					
1 427-54-25191 Handrail 1 Loose-supply item 2 01024-81235 Bolt 6 Installed to chassis temporarily 3 4 1427-54-25210 Handrail 2 Loose-supply item 5 01024-81235 Bolt 16 Installed to chassis temporarily 6 7 427-54-25220 Handrail 1 Loose-supply item 8 01024-81235 Bolt 8 Installed to chassis temporarily 9 10 427-54-25180 Handrail 1 Loose-supply item 11 01024-81235 Bolt 4 Installed to chassis temporarily 1 12 13 427-54-25230 Handrail 1 Loose-supply item 14 01024-81245 Bolt 2 Installed to chassis temporarily 13/t0/t5 14 01024-81245 Bolt 2 Installed to chassis temporarily 13/t0/t5 15 04024 81235 Bolt 2 Installed to chassis 13/t0/t5 15 04024 81235 Bolt 2 Installed to chassis 13/t0/t5	No.	Part No.	Part name	Q'tv	State of parts
2 01024-81235 Bolt 6 Installed to chassis temporarily 3 - - 4 1427-54-25210 Handrail 2 Loose-supply item 5 01024-81235 Bolt 16 Installed to chassis temporarily 6 - - - - 7 427-54-25220 Handrail 1 Loose-supply item 8 01024-81235 Bolt 8 Installed to chassis temporarily 9 - - - - 10 427-54-25180 Handrail 1 Loose-supply item 11 01024-81235 Bolt 4 Installed to chassis temporarily 12 - - - - 13 427-54-25230 Handrail 1 Loose-supply item 14 01024-81245 Bolt 2 Installed to chassis temporarily - 15 04024 81235 Bolt 2 Installed to chassis - 15 04024 81235 Bolt - Installed to chassis	_				
3 - - 4 1427-54-25210 Handrail 2 Loose-supply item 5 01024-81235 Bolt 16 Installed to chassis temporarily 6 - - - - 7 427-54-25220 Handrail 1 Loose-supply item 8 01024-81235 Bolt 8 Installed to chassis temporarily 9 - - - - 10 427-54-25180 Handrail 1 Loose-supply item 11 01024-81235 Bolt 4 Installed to chassis temporarily 12 - - - - - 13 427-54-25230 Handrail 1 Loose-supply item - - 14 01024-81245 Bolt 2 Installed to chassis temporarily - - - - 15 04024-81245 Bolt 2 Installed to chassis - - - - 14 01024-81245 Bolt 2 Installed to chassis - - -	2	01024-81235	Bolt	6	Installed to chassis
4 1427-54-25210 Handrail 2 Loose-supply item 5 01024-81235 Bolt 16 Installed to chassis temporarily 6	3				<u>comportany</u>
3 01024-81233 Bolt 10 temporarily 6		1427-54-25210	Handrail	2	Loose-supply item
6	5	01024-81235	Bolt	16	Installed to chassis temporarily
7 427-54-25220 Handrail 1 Loose-supply item 8 01024-81235 Bolt 8 Installed to chassis temporarily 9 10 427-54-25180 Handrail 1 Loose-supply item 11 01024-81235 Bolt 4 Installed to chassis temporarily 12 11 1 Loose-supply item 13 427-54-25230 Handrail 1 Loose-supply item 14 01024-81245 Bolt 2 Installed to chassis temporarily 15 04024-81235 Bolt 2 Installed to chassis 15 04024-81235 Bolt 2 Installed to chassis	6				
8 01024-81235 Boit 0 temporarily 9	7	427-54-25220	Handrail	1	
9 10 427-54-25180 Handrail 1 Loose-supply item 11 01024-81235 Bolt 4 Installed to chassis temporarily 12 13 427-54-25230 Handrail 1 Loose-supply item 14 01024-81245 Bolt 2 Installed to chassis temporarily 13 13 15 01024-81245 Bolt 2 Installed to chassis 13 14 10024-81245 Bolt 2 Installed to chassis 15 01024-81235 Delt 6 Installed to chassis 13 14 10024-81245 10 10	8	01024-81235	Bolt	8	
11 01024-81235 Bolt 4 Installed to chassis temporarily 12 13 427-54-25230 Handrail 1 Loose-supply item temporarily 13 427-54-25230 Handrail 1 Loose-supply item temporarily 14 01024-81245 Bolt 2 Installed to chassis temporarily 15 01024 81235 Bolt c Installed to chassis	9				
11 01024-81235 Boit 4 temporarily 12		427-54-25180	Handrail	1	
12 13 427-54-25230 Handrail 1 Loose-supply item 14 01024-81245 Bolt 2 Installed to chassis temporarily 15 04024 81235 Dot c Installed to chassis	11	01024-81235	Bolt	4	
13 427-54-25230 Handrail 1 Loose-supply item 14 01024-81245 Bolt 2 Installed to chassis temporarily 15 04024 81235 Bolt c Installed to chassis	12				
14 01024-81245 Bolt 2 Initialized to shadolo technologie 15 01024-81235 Bolt c Installed to chassis		427-54-25230	Handrail	1	
15 04024 81225 Dett Installed to chassis	14	01024-81245	Bolt	2	temporarily View Z
	15	01024-81235	Bolt	6	Installed to chassis

Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	Others	· ·			

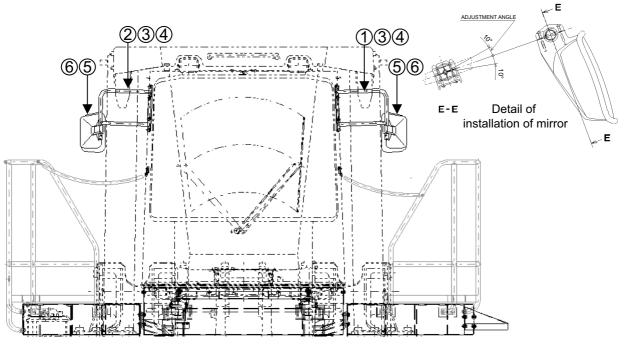
Assembly process. No. B-330 Installing rear access step



Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Others			

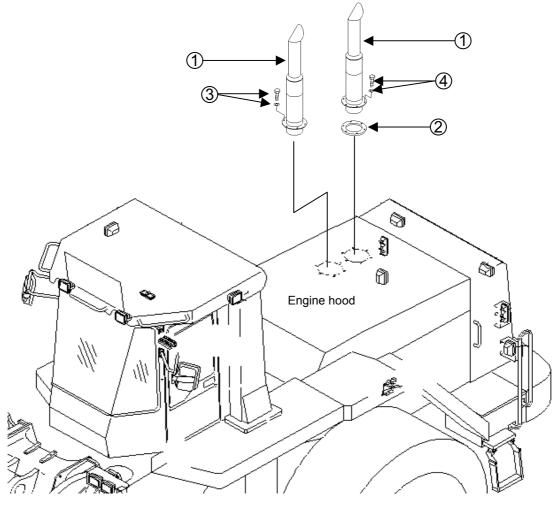


Precautions	Special tools		Necessary equipment		
	Name	Q'ty	Name	Q'ty	
	Others				



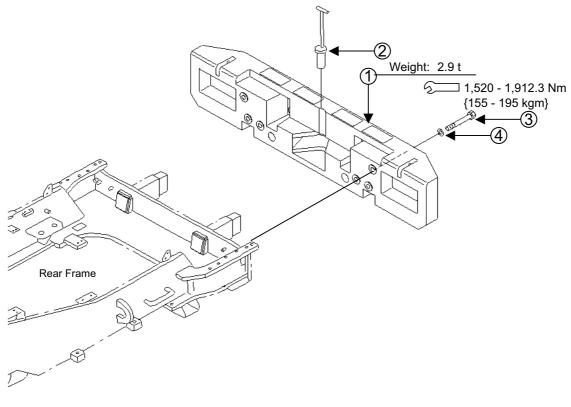
No.	Part No.	Part name	Q'ty	State of parts
1	426-54-25710	Stay (L.H.)	1	Loose-supply item
2	426-54-25720	Stay (R.H.)	1	Loose-supply item
3	01435-01025	Bolt	8	Loose-supply item
4	363-54-31450	Сар	8	Loose-supply item
5	421-54-25610	Mirror	2	Loose-supply item
6	04025-00632	Spring pin	2	Loose-supply item

Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
	(0)			
	Others			



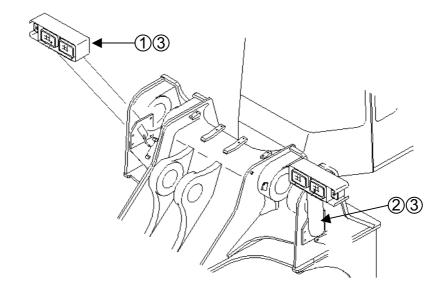
No.	Part No.	Part name	Q'ty	State of parts
1	427-02-11121	Exhaust pipe	2	Loose-supply item
2	427-02-11130	Plate	1	Installed to center hood top temporarily
3	01024-81240	Bolt	6	Installed to center hood top temporarily
4	01024-81255	Bolt	6	Installed to center hood top temporarily

Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
	S			
	Others			

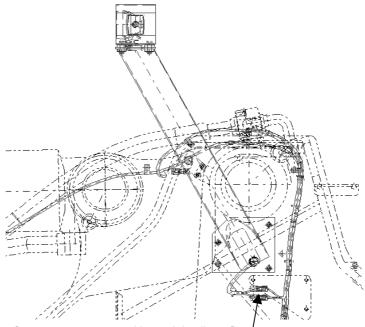


No.	Part No.	Part name	Q'ty	State of parts
1	427-46-25120	Counterweight	1	Loose-supply item
2	427-46-43120	Pin (Drawbar)	1	Loose-supply item
3	425-974-1160	Bolt	6	Installed to rear part of rear frame temporarily
4	01643-33080	Washer	6	Installed to rear part of rear frame temporarily

Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Torque wrench: 21000QLE (Torque: 1,520 - 1,912.3 Nm {155 - 195 kgm})	1		
	Socket: 46 mm	1		
	Extension	1		
	Impact wrench (For M30)	1		
	Others			



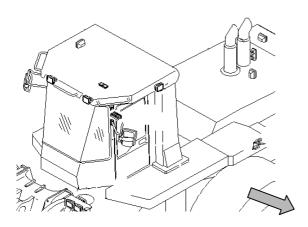
No.	No. Part No. Part name		Q'ty	State of parts
1	—	Right front lamp assembly	1	Loose-supply item
2	_	Left front lamp assembly	1	Loose-supply item
3	01435-01245	Bolt	8	Installed to right and left of front frame temporarily



Connect connector and insert it in clip to fix.

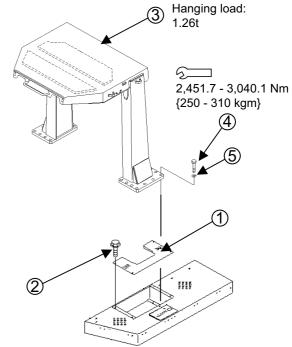
Precautions	Special tools		Necessary equipme		
	Name	Q'ty	Name	Q'ty	
	Others				

Assembly process. No. B-390 Installing ROPS canopy assembly



Remove cover, install ROPS canopy, and return cover.

Sling: 2-point sling (Use sling for floor and cab assembly.)

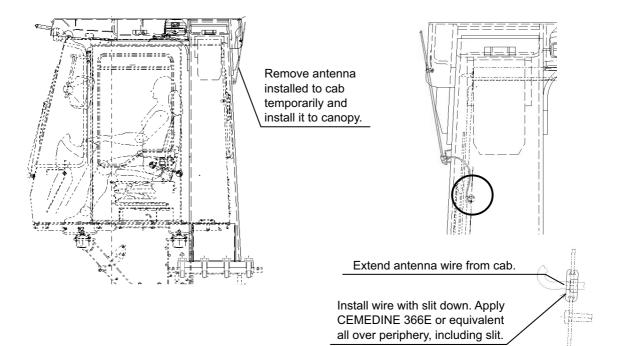


★ Before installing ROPS canopy, clean mounting faces.

No.	Part No.	Part name	Q'ty	State of parts
1	427-54-24210	Cover	2	Installed to chassis temporarily
2	01435-01220	Bolt	8	Installed to chassis temporarily
3	—	ROPS canopy ass'y	1	Loose-supply item
4	01010-63650	Bolt	20	Installed to chassis temporarily
5	01643-33690	Washer	20	Installed to chassis temporarily

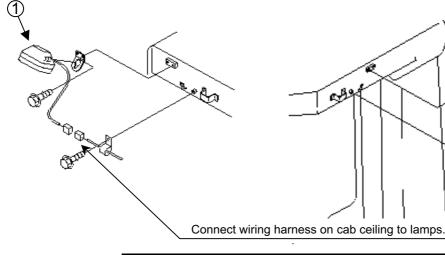
Precautions	Special tools	Necessary equipment		
	Name	Q'ty	Name	Q'ty
	Power wrench (16-times wrench)	1		
	Socket (55 mm)	1		
	Extension	1		
	Torque wrench	1		
	Others	1 1		

Assembly process. No. B-400 Installing antenna and working lamp



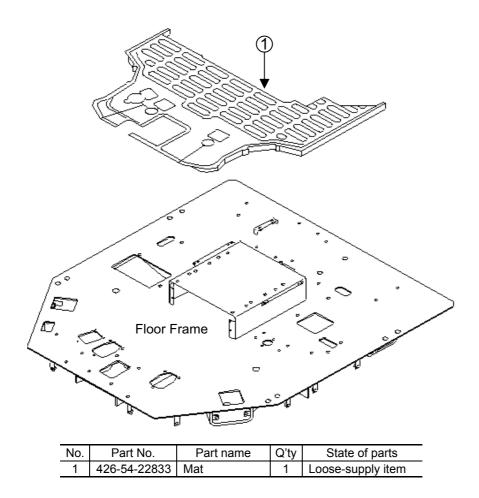
Step lamp (Rear side of left top of ROPS)

Side lamp (Right and left of ROPS)

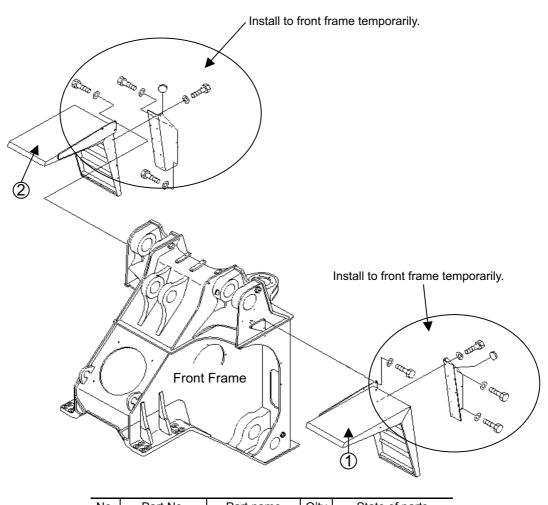


No.	Part No.	Part name	Q'ty	State of parts
1	_	Step lamp	1	Loose-supply item
2	_	Side lamp	2	Loose-supply item

Precautions	Special tools		Necessary equipm	oment	
	Name	Q'ty	Name	Q'ty	
	Others				



Precautions	Special tools		Necessary equipm	ssary equipment	
	Name	Q'ty	Name	Q'ty	
	Others	I			



No.	Part No.	Part name	Q'ty	State of parts
1	427-54-24152	Fender (L.H.)	1	Loose-supply item
2	427-54-24162	Fender (R.H.)	1	Loose-supply item

Precautions	Special tools		Necessary equipn	
	Name	Q'ty	Name	Q'ty
	Others			

- 1. Check oil/water level at each part and add oil/water if necessary.
 - Coolant level
 - Oil level in engine oil pan and brake oil tank
 - Fuel level
 - ★ For the locations of the gauges and standard oil/water level, see the Operation & Maintenance Manual.
 - ★ Since the axles and cab are removed when the machine is delivered, supply hydraulic oil before starting the engine. While running the engine, check the oil level constantly.

2. For the starting method, see the Operation & Maintenance Manual.

- ★ Check the method of stopping the engine, too.
- Run the engine at low idling for 10 minutes.
- \star At this time, do not move the control lever.
- ★ If oil leakage, abnormal sound, or another trouble is detected, stop the engine immediately.

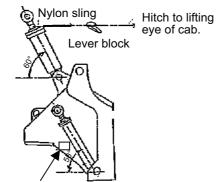
3. Stop the engine then check it.

- \star Check the engine for oil leakage.
- \star Check the oil/water level at each part and add oil/water if necessary.

Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Others			

Assembly process. No. B-440 Installing boom assembly

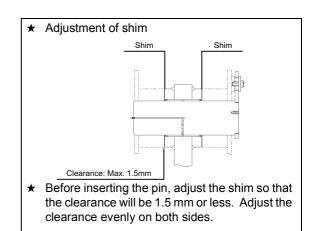
1. Hold the dump and lift cylinders with lever blocks.

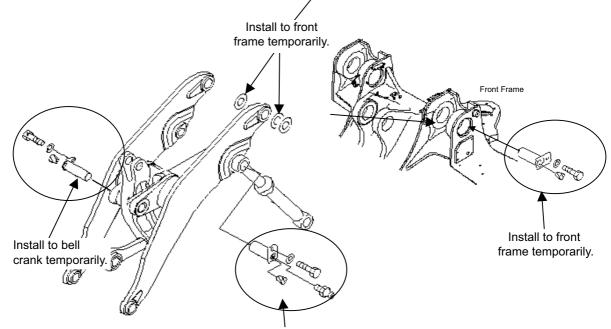


Hold with wood block.

- **2.** Sling the boom assembly with a crane and move it to above the front frame and position it, and then insert the lift arm hinge pin.
- **3.** Adjust positions of the boom assembly and lift cylinder, and then insert the lift cylinder head pin.
- 4. While slinging the cylinder head with the crane and adjusting its position, insert the cylinder head pin.
- ★ Start the engine, raise the boom, and adjust the positions of the holes.

- ★ Before inserting the pin, wipe it and the inside wall of the pin hole thoroughly with cloths and apply molybdenum disulfide paste LM-P to them.
- ★ When inserting the pin, apply grease to the seal so that the seal will not be damaged.



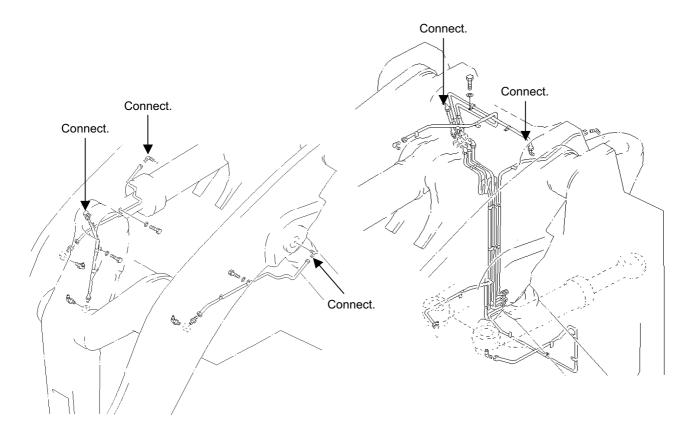




Precautions	Special tool	s	Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
★ Before inserting the pin, wipe it and the inside wall of the pin hole thoroughly				
with cloths and apply molybdenum dis- ulfide paste LM-P to them.				
★ When inserting the pin, apply grease to				
the seal so that the seal will not be dam-				
aged.				
★ When aligning the pin holes, never in- sert your fingers in them.				
	Others			I

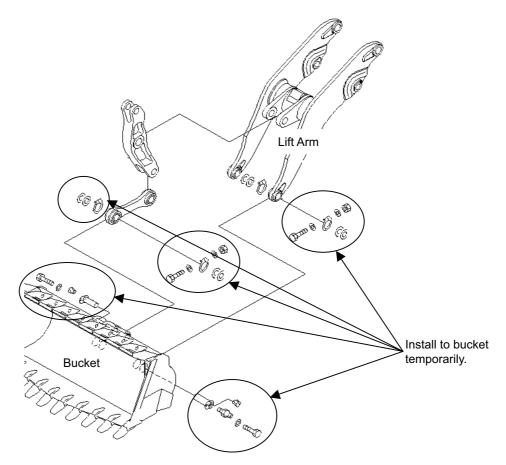
Assembly process. No. B-450 Connecting remote grease tubes

Connecting remote grease tubes at 5 places



Supply grease (molybdenum disulfide grease) to the grease fitting of each pin of the boom.

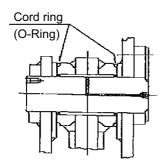
Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	<u>د</u>			
	Others			



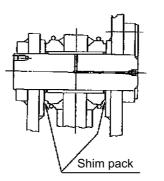
- Sling the bucket with a crane and position it to the front of the truck. Bucket: 8,600 kg
 Sling: Use the upper part of the balance of the balance sling for the rear axle.
- **2.** Wipe off grease and paint from the periphery of the pin hole of the bucket.
- 3. Wipe off grease and paint from the periphery of the pin holes of the boom pivot and bucket link pivot.
 - ★ Check that the dust seal is installed and the seal lip is set in the correct direction.
 - ★ Check that the dust seal is not projected from the boom and from the pivot end of the bucket link.

Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Others			

- Installing bucket to boom (Sling the bucket with a crane and adjust the positions of the holes.)
- (1) Bring the bucket near the lift arm and match the bucket mounting pins.
- (2) Select shims so that clearance T between the boom pivot and bucket pivot will be 1.5 mm or less.
 - ★ Select shims so that the clearance will be even on the right and left sides.
- (3) Separate the bucket from the lift arm and install the cord ring to the boom pivot temporarily.
- (4) Insert the shim pack selected in (2) above between the bucket and boom pivot, and then match the pin holes and insert the pin.
 - ★ Apply KES LM-P molybdenum disulfide paste (Brand: SHINTOA KOEKI MOLYCOAT G or equivalent) to the pin, dust seal lip, and inside of bushing in advance so that the dust seal lip will not be damaged at this time.
- (5) Install the cord ring to the pivot.

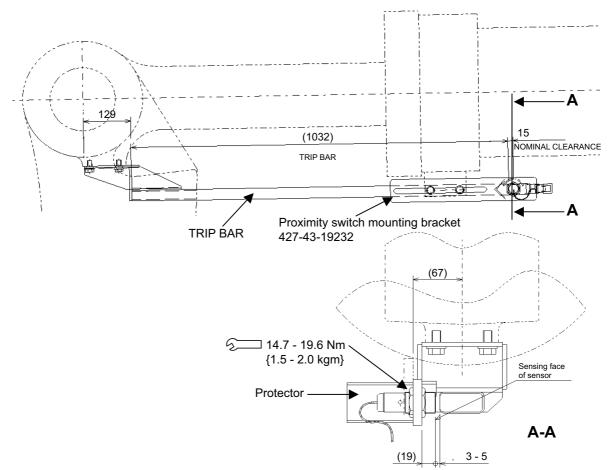


Cord ring (O-Ring)



- (6) Tighten the set bolt for the pin.
- 5. Connecting bucket link to bucket pivot
 ★ In the following procedure, install the pin similarly to the procedure for connecting the boom pivot.
- 6. Supply grease (molybdenum disulfide grease) to the grease fitting of each pin of the bucket.

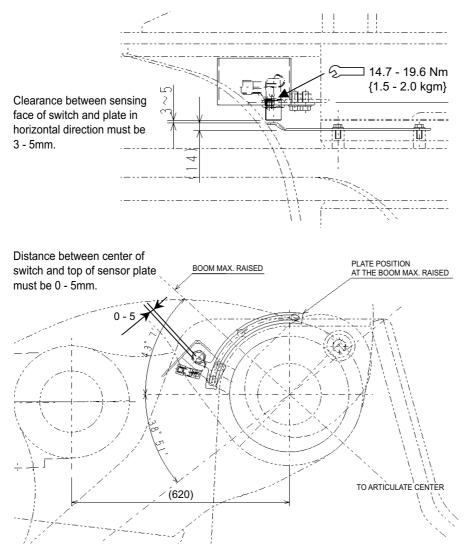
Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Others			



Adjusting bucket positioner

- (1) Lower the bucket to the ground and set it to a level. (Lower it to the level ground.)
- (2) Adjust and fix the proximity switch so that its sensing face can be pulled in about 0.5 1.0 mm from the end of the protector.
- (3) Since the trip bar moves transversely on the sensing face of the switch, adjust it so that clearance of 3 - 5 mm will be secured all over its stroke.
- (4) While running the engine at medium speed (1,500 rpm), operate the positioner and adjust the proximity switch mounting bracket (427-43-19232) so that the bucket angle will be 0 1° when the bucket is lowered to the ground. (The relationship between the bucket angle and cylinder length near the ground level is 8.7 mm/1°.)
- (5) Variation of operation of the positioner with the engine speed must be 4° or less when the bucket is near the ground.

Precautions	Special tools		Necessary equipn	nent
	Name	Q'ty	Name	Q'ty
	Impact wrench	1		
	Socket: 19 mm	1		
	Torque wrench	1		
	Spanner (Hex: 36 mm)	1		
	Others			L L

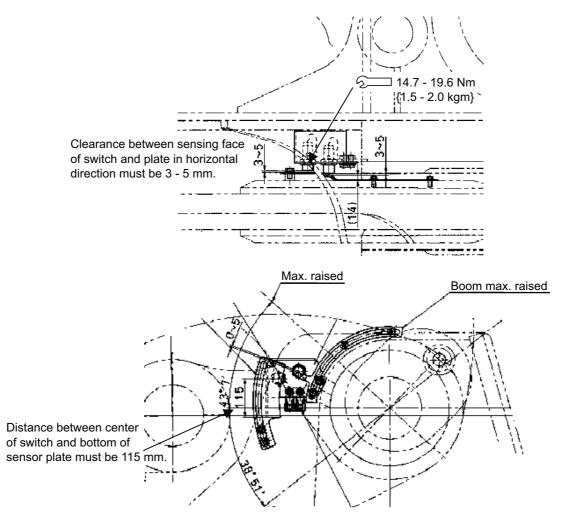


Adjusting boom kick-out

- Raise the boom to the stroke end and fix the plate so that the distance between the center of the switch and the top of the sensor plate will be 0 - 5 mm.
- (2) Fix the switch so that the clearance between the sensing face of the switch and the plate in the horizontal direction will be 3 - 5 mm.

Precautions	Special tools		Necessary equipment	t
	Name	Q'ty	Name	Q'ty
	Others	1		

Perform the following work for only when the machine is equipped with the 2-stage hydraulic system.



Adjusting drive force UP switch

- (1) Raise the boom to the stroke end and fix the plate so that the distance between the center of the switch and the bottom of the sensor plate will be 115 mm.
- (2) Fix the switch so that the clearance between the sensing face of the switch and the plate in the horizontal direction will be 3 - 5 mm.

Precautions	Special tools		Necessary equipm	ent
	Name	Q'ty	Name	Q'ty
	Others	· · · ·		I

Assembly process. No. B-510 Procedure for bleeding air from work equipment circuit

1.	Bleeding air from cylinder	
(1)	While running the engine at low idling, move the cylinder to 100 mm before the stroke end	3 - 4 times
(2)	While running the engine at medium speed, move the cylinder to 100 mm before the stroke end	3 - 4 times
(3)	While running the engine at high idling, move the cylinder to 100 mm before the stroke end	3 - 4 times
(4)	While running the engine at low idling, relieve the cylinder at the stroke end	3 - 4 times
(5)	While running the engine at medium speed, relieve the cylinder at the stroke end	3 - 4 times
(6)	While running the engine at high idling, relieve the cylinder at the stroke end	3 - 4 times

- 2. Bleeding air from POC circuit
- (1) Set the bucket control lever in the TILT position and set the boom control lever in the FLOAT position. After the cylinders reach the stroke end, keep them there for 1 minute.
- (2) Set the bucket control lever in the DUMP position and set the boom control lever in the RAISE position. After the cylinders reach the stroke end, keep them there for 1 minute.

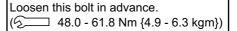
Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Spanner	1		
	Others			I

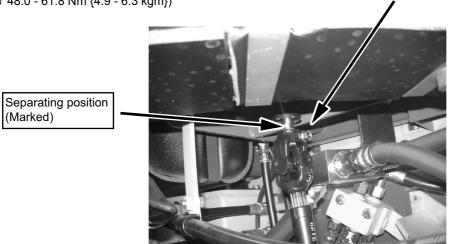
Procedure for adding attachment "AJSS"

1. Connecting steering column

Additional work items

- 1. Connecting steering column
- 2. Connecting 3 sensor connectors
- 3. Connecting 2 steering lock valve pipes
- 4. Connecting steering link
- (1) Loosen the steering column bolt on the chassis side in advance.
- (2) When installing the cab to the chassis, insert and install the steering column shown in the photo. (Match the marks at this time.)
- (3) After fixing the cab to the chassis, tighten the bolt. (2 48.0 61.8 Nm {4.9 6.3 kgm})





Left central part under floor

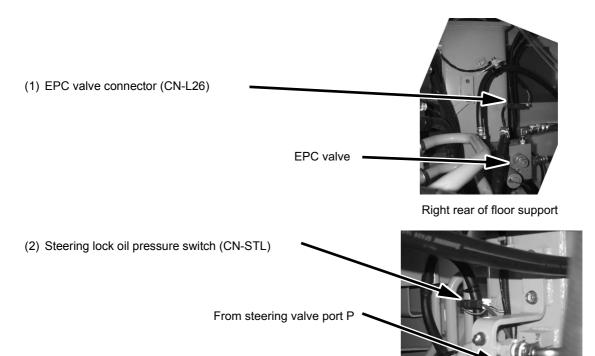
Precautions	Special tools		Necessary equipm	nent
	Name	Q'ty	Name	Q'ty
Loosen the bolt in advance.				
When inserting, match marks.				
Others				

Procedure for adding attachment "AJSS"

 Connecting 3 sensor connectors (Connect and fix these connectors to wiring harness from floor.)

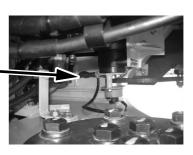
Additional work items

- 1. Connecting steering column
- 2. Connecting 3 sensor connectors
- 3. Connecting 2 steering lock valve pipes
- 4. Connecting steering link



Left rear of floor support

(3) Steering potentiometer



Left lower part of floor support

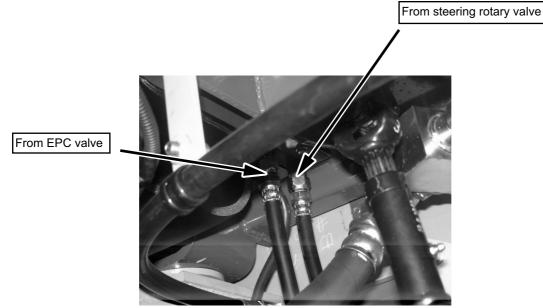
Precautions	Special tools		Necessary equipment	
	Name	Q'ty	Name	Q'ty
	Others			·

Procedure for adding attachment "AJSS"

3. Connecting 2 steering lock valve pipes

Additional work items

- 1. Connecting steering column
- 2. Connecting 3 sensor connectors
- 3. Connecting 2 steering lock valve pipes
- 4. Connecting steering link



Left central part under floor

Precautions	Special tools		Necessary equipment					
Match the marks.	Name	Q'ty	Name	Q'ty				
	Others							

(1) Connect the 2 hoses (marked)

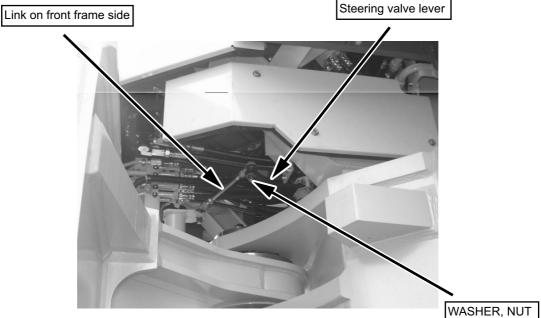
Procedure for adding attachment "AJSS"

Perform the following work only when separating the front and rear frames for delivery.

4. Connecting steering link

Additional work items

- 1. Connecting steering column
- 2. Connecting 3 sensor connectors
- 3. Connecting 2 steering lock valve pipes
- 4. Connecting steering link
- (1) Remove the nut and washer of the link on the front frame side in advance.
- (2) Insert the link in the hole of the steering valve lever, set the washer, and tighten the nut.



Central part of chassis seen from left below

	1.	••	.01	 ٠,		•	
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Precautions	Special tools		Necessary equipment				
Remove the nut and washer in advance.	Name	Q'ty	Name	Q'ty			
Others							



FIELD ASSEMBLY INSPECTION REPORT

After completion of assembling a machine, make inspections according to these check sheets for assuring machine performance and quality.

Model – Type	Machine Serial	No.	User U	nit	t No.	En	gine Mo	del	Engine Serial No.		
WA900-3						кс	OMATS	SU SA12V140-1			
Service Meter Reading	Date of Ins	pection						Attac	hment		
								1		2	
Location of Machine at Inspection					Manufactur	e					
					Model						
Distributor's Name					Serial No.						
Customer's Name		Address:						Signature:		Delivery Report	
										No. attached	
								Date:			
Inspector's Comments:											
							,				
Inspector's Name:	·····					TOU					
		·····			C. Sheet Receiving Date:						
Title					_ By			:			
Signature:					Remark	k :					
Check Sheets filli	ng instructions:										
1. Use following in	dexes for entry o		t			Ø	🖣 Co	rrection made on ab	normal poin	t	
🛛 Abnormal]No	t applied			
2. Enter actually measured values in parentheses, [].					
Notes:											
(1) Criteria are base	(1) Criteria are based on the standards when the machine is shipped out of the factory.										

SUBMITTANCE OF THIS REPORT (AND CHECK SHEETS) TO KOMATSU IS ONE OF THE CONDITIONS OF WARRANTY VALIDATION, COPY FOR KOMATSU SHALL BE FORWARDED TO THE KOMATSU REGIONAL OFFICE TOGETHER WITH THE COPY OF DELIVERY SERVICE REPORT.

Cate- gory	No.	ltem	Judgement procedure & standard	Measured value	Judgement	Confirmation of repair	Nature of repair	
	1	Record serial number stamped on machine	Stamped on right side face of front frame					
	2	Record engine serial number	Stamped on right side face of cylinder block (as seen from fan)	[]				
	3	Confirmation of specifications	Tires [– – PR, W/T, T/L, R, G]	(Manufacturer:)				
sr			Bucket [m³, With teeth, V Straight edge bu	Vithout teeth, cket, Spade nose bucket []]				
Specifications			Others (options) []				
pecifi			[]			1	
A S]			1	
			[]				
	4	Paint color	Standard, specified color	[]				
	5	Engine oil capacity	15W-30	[]				
	6	Antifreeze	Used/not used, density	[]				
sure	1	Engine cooling water capacity	Above bottom edge of filler port	[Upper sur- [face of core mm]				
prese	2	Engine oil capacity	H – L + 5, at least 15 minutes after stopping engine	[H± mm]				
ation	3	Brake oil capacity	At least 12 H after stopping engine ———	\rightarrow			1	
e infla			Engine at low idling	→ [<u>O</u>]				
ty, tin	4	Hydraulic oil capacity	Between top and center of side gauge	[()]				
apaci	5	Transmission oil capacity	H – L + 5	[]				
ant c	6	Axle oil capacity	Bottom edge of drain plug ± 10 mm	[]				
, cool	7	Washer fluid	Tank at least 1/3 full	[]				
Lubricant, coolant capacity, tire inflation pressure	8	Battery electrolyte level	Between bottom edge of filler port and 10 mm above pole	[]				
Lub	9	Greasing of all parts	All specified parts must be greased	[]				
В	10	Tire inflation pressure	495 - 554 kPa {5.05 - 5.65 kg/cm²}	[kPa { kg/cm ² }]				
	1	Actuation, return of main switch	There must be no catching of the key. Does	s it turn ON/OFF properly?			l	
	2	Actuation of monitor panel self check	All modules must light up					
			All dashboard lamps must light up				1	
			Central warning lamp must light up					
			Alarm buzzer must sound					
bu	3	Actuation of monitor for checks before starting	Brake oil level abnormality lamp must not	be lighted up				
Starting		, , , , , , , , , , , , , , , , , , ,	Engine oil level abnormality lamp must no	t be lighted up				
ပ			Engine cooling water level abnormality lan	np must not be lighted up				
	4	Sounding of horn	Volume must be correct. There must be r vibration	no abnormal sound or				
	5	Actuation of directional lever neutral switch	Must be possible to start engine only who	en lever is at neutral				
	6	Actuation of starting motor	There must be no abnormal noise or idle	running				
	7	Ease of starting engine						
	8	Actuation, indication of hour meter	Pilot lamp must flash when engine is running.					

Cate- gory	No.	ltem	Judgement procedure & standard	Measured value	Judgement	Confirmation of repair	Nature of repair			
	9	Abnormal lighting up of caution pilot lamps	When engine is stopped or when engine is running							
Starting	10	Confirmation of parking brake release	Lamp must light up when switch is turned ON							
			Machine must not move when switch is ON and shift lever is at F or R							
C			Buzzer must sound and warning lamp must light up when switch is ON and shift lever is at F or R							
		 Driving machine Operating time: F1 - 5 minute R2 - 5 minute Total 30 minutes 	es, F2 - 5 minutes, F3 - 5 minutes, R1 - 5 n es, R3 - 5 minutes	ninutes,						
	1	Actuation of speedometer								
	2	Actuation of fuel gauge								
	3	Actuation of torque converter oil temperature gauge	Must be within green range							
	4	Actuation of water temperature gauge								
ine	5	Abnormality with emergency caution lamp	Failure in brake line							
Operating machine		[If any gauge is in red range, pilot lamp, warning lamp must	Engine oil pressure							
ating		light up and alarm buzzer must sound]	Radiator water level							
Opera			Engine water temperature							
Δ			Torque converter oil temperature							
			Operation of emergency steering							
	6	Abnormal noise, vibration from e								
	7	Drive machine and check for abn	ormal heating of axle, parking brake							
	8	Actuation of dust indicator	Red piston must not be shown							
	© Pressurization test Operate lift cylinder to RAISE/LOWER, bucket cylinder to TILT/DUMP, and steering cylinder to left/right to the full stroke 30 times each to pressurize. Depress left and right brake pedal 30 times (transmission cut-off switch ON position) Carry out V-shape loading 5 times (engine at full throttle, cylinder operated to full stroke)									
	1	Abnormal lighting up of monitor panel								
ions	2	Operating effort of accelerator pedal	Max. 88.3 N {9.0 kg}	[N { kg}]						
Performance, functions	3	Return of accelerator pedal	Must return slowly without catching							
ance,	4	Actuation of emergency brake								
form	5	Actuation of brake pedal								
	6	Play, return of brake pedal	There must be no dragging							
ш	7	Braking effect	Stopping distance within 7.5 m when traveling at 20 km/h	[m]						
	8	Actuation of transmission cut-off switch	Pilot lamp must be off and transmission must not be cut when switch is OFF							
	9	Actuation of transmission cut-off								
	10	Time lag, shock, or other abnormalities in return afte	r transmission cut-off							
	11	Operation of directional lever	Max. 10.8 N {1.1 kg}	[N { kg}]						

Cate- gory	No.	ltem	Judgement procedure & standard	Me	asured va	lue	Judgement	Confirmation of repair	Nature of repair
	12	Operation of speed lever	Max. 10.8 N {1.1 kg}	[N {	kg}]			
	13	Actuation of speed lever 2nd speed stopper							
	14	Defective operation of directional lever	$F \rightarrow N, R \rightarrow N,$ switching between F and R						
	15	Defective operation of speed lever	Shifting to 1, 2, 3						
	16	Time lag, shock, or other abnormality when shifting gear or starting off							
	17	Operation of lift lever	HOLD → RAISE, HOLD → LOWER: Max. 24.5 N {2.5 kg} LOWER → FLOAT: Max. 53.9 N {5.5 kg}	[N {	kg}]			
	18	Correct fitting of lift lever in notch	FLOAT, LOWER, RAISE						
	19	Operating effort of bucket lever	Max. 23.5 N {2.4 kg}	[N {	kg}]			
	20	Correct fitting of bucket lever in notch	TILT	ILT I					
	21	Actuation, adjustment of work equipment lever safety lock	Lock must not come off when lever is op Boom must not go down	ock must not come off when lever is operated. Soom must not go down					
Performance, functions	22	Actuation of accumulator	Boom, bucket must go down when engine is stopped and lever is opperated						
, func	23	Adjustment of boom kick-out							
ance	24	Adjustment of bucket leveler							
rform	25	Scratches or damage to lift cylinder rod							
E Pe	26	Scratches or damage to bucket cylinder rod							
	27	Operation of steering wheel	8.8 - 14.7 N {0.9 – 1.5 kg}	[N {	kg}]			
	28	Play of steering wheel	20 – 70 mm	[Left:	mm, right:	mm]			
	29	Abnormal noise, vibration, huntin	g of engine, exhaust color						
	30	Engine stall	Engine must not stop during any stall op	eration					
	31	Engine pick-up	Engine must accelerate from each stall op	peration	, low idlin	g			
	32	Actuation of engine stop	Engine must stop properly when main sv	vitch is t	turned OF	F			
	33	Chassis holding force	Is machine held off ground when boom i front tires are raised from ground?	s lowere	ed and				
	34	Parking brake effect	Must hold machine on 1/5 grade						
	35	Actuation of emergency steering	Must be possible to operate steering when engine stops while going downhill						
	36	Abnormal noise, vibration from e	ngine, transmission, axle, work equipment	during	compress	ion			
	1	Tension on hoses, wiring harness	ses when boom is raised						
Others	2	Interference with hoses, wiring ha	arnesses when boom is raised						
Ъ	3	Interference when there is rear w	heel oscillation (check both left and right)						
	4	Interference when turning steerin	g (check on both left and right)						

Cate- gory	No.	ltem	Judgement procedure & standard	Measured value	Judgement	Confirmation of repair	Nature of repair
		Engine c	gine governor lever is operated to full throttle, it m ooling water temperature, torque converter oil tem range, hydraulic oil temperature: 45 – 55°C				
	1	Low idling	620 – 700 rpm	[rpm]			
	2	High idling	2170 – 2270 rpm	[rpm]			
	3	Torque converter stall	1940 – 2140 rpm	[rpm]			
e	4	Work equipment stall	(Record only)	[rpm]			
mano	5	Full stall	(Record only)	[rpm]			
perfor	6	Boom RAISE speed	9.9 - 10.9 sec	[sec]			
asic p	7	Boom LOWER speed	4.3 - 5.3 sec	[sec]			
t of b	8	Bucket tilt back speed (tilt with boom raised to max. height)	1.7 - 2.3 sec	[sec]			
emen	9	Bucket tilt forward speed (dump with boom raised to max. height)	3.3 - 4.3 sec	[sec]			
G Measurement of basic performance		Ø Hydraulic drift of work equipm Measurement conditions: Hydra	ient ulic oil temperature: 75 – 85°C ontal when starting measurement				
	10	Hydraulic drift of boom	Lift cylinder retraction Max. 40 mm/15 min	[min]			
	11	Hydraulic drift of bucket	Bucket cylinder retraction Max. 20 mm/15 min	[min]			
	12	Rotating speed of steering wheel	Max. 5 sec with engine at full throttle	[Left sec], [Right sec]			
	1	Actuation of light switches	There must be no stiffness or looseness of knobs (front lamp, working lamp, hazard)				
	2	Lighting up of parking lamp	(Front, rear, left, right)				
	3	Lighting up of clearance lamp	(Left, right)				
	4	Lighting up of tail lamp	(Left, right)				
	5	Lighting up of monitor lamp					
	6	Lighting up of front lamp (left, right)	Switching between low, high, lighting up of pilot				
	7	Lighting up of working lamp	(Front, rear, left, right) Lighting up of pilot				
ts	8	Lighting up of brake lamp	(Left, right)				
Lights	9	Lighting up of back-up lamp	Back-up buzzer must sound				
=	10	Actuation of turn signal indicator	(front left, right, top, bottom; rear left, rigl	nt), flashing of pilot			
	11	Actuation of hazard (front left, rig					
	12	Actuation of radio	Do switches work properly? Is there interference?				
	13	Actuation of stereo	Do switches work properly? Is there interference?				
	14	Lighting up of room lamp	When switch is ON, when door is open				
	15	Actuation of cigar lighter	Does it become red hot, does it automatically return?				
	16	Actuation of wipers (left, right)	Is wiping range correct?				
	17	Actuation of window washer	Is direction of nozzle correct?				

Cate- gory	No.	ltem	Judgement procedure & standard	Measured value	Judgement	Confirmation of repair	Nature of repair					
	18	Actuation of air conditioner	Actuation of switches (lighting up of lamps), actuation of air flow switch									
ts	19	Check charging of air conditioner gas	There must be no bubbles in receiver sight gauge									
Lights	20	Actuation of selector switches for air conditioner	Do cooling and heating work properly?									
т 	21	Does air conditioner FRESH/RECIRC selector switch work properly?										
	22	Operation of air conditioner condenser fan										
	1	Check that there is no leakage of water from engine cooling system (left, right) Radiator inlet/outlet hoses, radiator drain hose, radiator drain valve, radiator core, aeration hose, thermostat housing, water pump shaft seal, corrosion seal, joint of cylinder block water jacket cover, water manifold, torque converter cooler inlet/outlet hoses										
	2	Check that there is no interference	e between water piping, hoses and sharp	edge or movable parts								
	3	Check that there is no leakage of fuel from engine fuel line (left, right) Dil filter joint, dipstick tube mount, oil filler tube mount, timing gear case joint, breather mount, nead cover joint, crankshaft seal, turbocharger lubricant tube, turbocharger seal, air compressor lubricant tube, oil pan joint, engine oil drain hose, engine oil drain valve, engine oil cooler tube mount										
	4		e between lubrication hoses and sharp ed									
	5	[Exhaust manifold mount, turboc	gas from engine exhaust system (left, rigl harger mount, muffler, head cover joint]	ht)								
	6	Check that there is no leakage of (Tank weld, tank inspection cover	fuel from fuel tank r joint, tank unit mounting surface, tank dr	ain valve)								
	7	Check that there are no loose or										
	8	Check that there is no leakage of [Torque converter pump suction tube joints, filter joint, torque con	er inlet/outlet hose and									
	9	Check that there is no interference movable parts	e between torque converter piping, hoses	and sharp edge or								
Overall inspection	10	Check that there is no leakage of [Torque converter input shaft sea case joint, transfer case front cov transmission control valve moun mount, transmission output shaft	on, transmission transfer smission breather,									
l insp	11	Check that there is no leakage of										
veral	12	Check that there are no loose or	r)									
-	13	Check that there are no loose or	missing mounting bolts of axle support (fr	ront, rear)								
	14	Check that there are no loose or	missing mounting bolts of wheels (front, r	ear)								
	15	Check that there is no damage to	side wall of tires									
	16	Check that there are no loose or [Front drive shaft, rear drive shaft	nt, rear)									
	17	Check that there is no leakage of [Tank weld, inspection cover join	ıge]									
	18	Check that there is no leakage of [Case weld, inspection cover join										
	19	Check that there is no leakage of verter, emergency steering) [Pump mount, case joint, cover ju	oil from hydraulic pump (switch, loader, s pintl	steering, torque con-								
	20	Check that there is no leakage of [Relief valve, suction valve, unloa										
	21	Check that there is no leakage of [Relief valve, safety valve, lever s										
	22	Check that there is no leakage of	oil from PPC valve									
	23	Check that there is no leakage of	oil from accumulator									
	24	Check that there is no leakage of	oil from PPC relief valve									
	25	Check that there is no leakage of [Shaft seal, head flange portion,	oil from boom cylinder (left, right) tube weld]									

Cate- gory	No.	ltem	Judgement procedure & standard	Measured value	Judgement	Confirmation of repair	Nature of repair
	26	Check that there is no leakage of [Shaft seal, head flange portion,	oil from bucket cylinder tube weldl				
	27	Check that there is no leakage of [Shaft seal, head flange portion,	oil from steering cylinder				
	28	Check that there is no leakage of [Piping joints, weld, plugs]					
	29	Check that there is no interference	e or movable parts				
	30	Check that there is no leakage of [Brake oil reservoir, brake valve,					
	31	Check that there is no interference					
	32	Check that there are no loose or	bolts				
	33	Check that there are no loose or	missing fender weight mounting bolts				
	34	Check that there is no stepped difference between counterweight and fuel tank	Stepped difference: Max. 5 mm				
	35	Check that there are no loose or	missing front fender (left, right) mounting	bolts			
	36	Check that there are no loose or					
	37	Check that there are no loose or					
Overall inspection	38	Check that there is no leakage of	oil from engine throttle booster				
ll ins	39	Check that there is no leakage of	oil from engine throttle booster inlet/outle	et hose joints			
Overa	40	Check that there is no interference edge or movable parts					
-	41	Check that there is no interference					
	42	Check that there is no interference					
	43	Check that there is no excessive	tension of electric wiring				
	44	Check that there are no loose or [alternator, starting motor, senso	missing connectors or electric wiring term rs, battery, lamps, wipers]	inals			
	45	Check that there are no loose or	missing cab mounting bolts				
	46	Check that the operator's seat ad	justments (slide, tilt, up/down, weight, sea	t back) work properly			
	47	Check that the steering wheel tilt	, lock works properly				
	48	Check that the cab door outer loo	ck (key lock), inner lock work properly				
	49	Check that there is no interference	e between air conditioner hoses and shar	o edge or movable parts			
	50	Check that there is no interference	e between heater hoses and sharp edge o	r movable parts			
	51	Check that there is no peeling or	dents to machine bodywork				
	52	Check that there are no peeling of	or missing name plates on machine				

WA900-3 WHEEL LOADER

Form No GEN00019-01

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