CATERPILLAR®

Service Repair Manual

Models

CP-533C and CS-533C Vibratory Compactor

Product: VIBRATORY COMPACTOR
Model: CS-533C VIBRATORY COMPACTOR 2XN
Configuration: CP-533C CS-533C Vibratory Compactor 2XN00001-UP (MACHINE) POWERED BY 3116 Engine

Disassembly and Assembly
CP-533C, CS-533C, CP-563C, CS-563C, CS-573C & CS-583C VIBRAT
Media Number -KENR2663-02 **Publication Date -01/11/2000** **Date Updated -27/09/2004**

KENR26630014

Axle

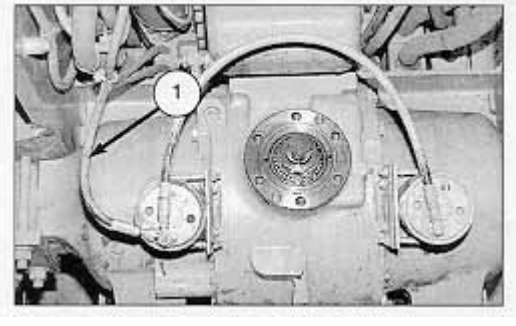
SMCS - 3278-016; 3278-010; 3278-015

Remove & Install Axle

Start By:

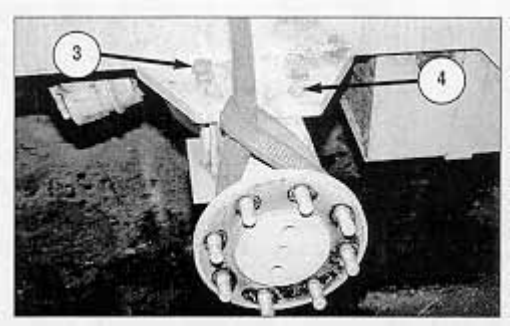
a. Remove axle gear reducer.

b. Remove wheel assemblies.

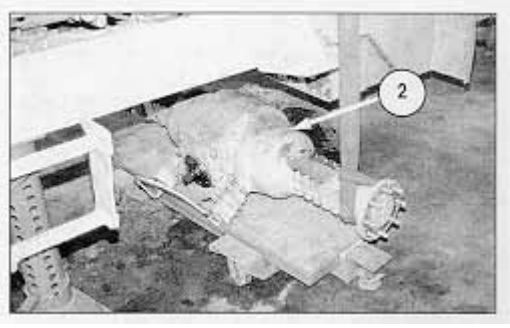


1. Disconnect hose assembly (1). Cap and plug immediately.

2. Fasten a lifting device to each end of axle (2).



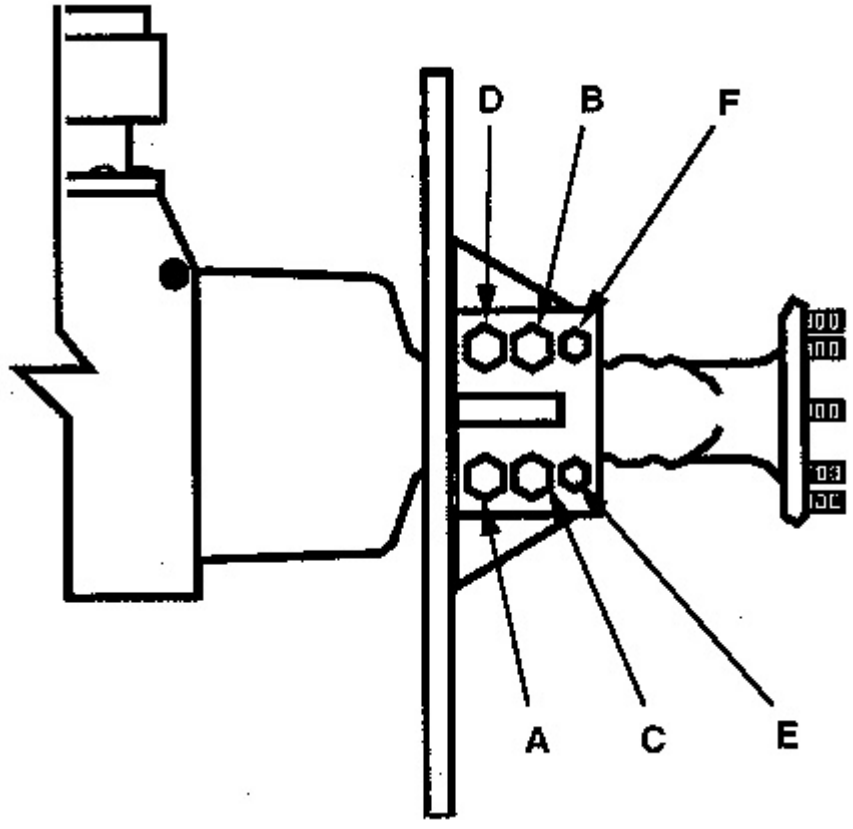
3. Remove four bolts (3) and two bolts (4) from each end of the axle.



4. Use the lifting device to lower axle (2) to a dolly or similar device. The weight of the axle is **385 kg (850 lb).**

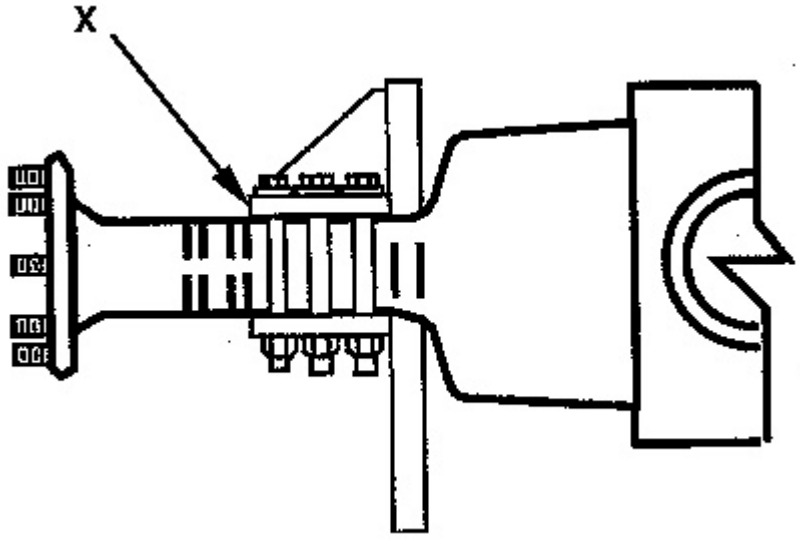
NOTE: The following steps are for installation of the axle.

5. Position axle (2) under the machine. Use the lifting device to raise the axle into position.

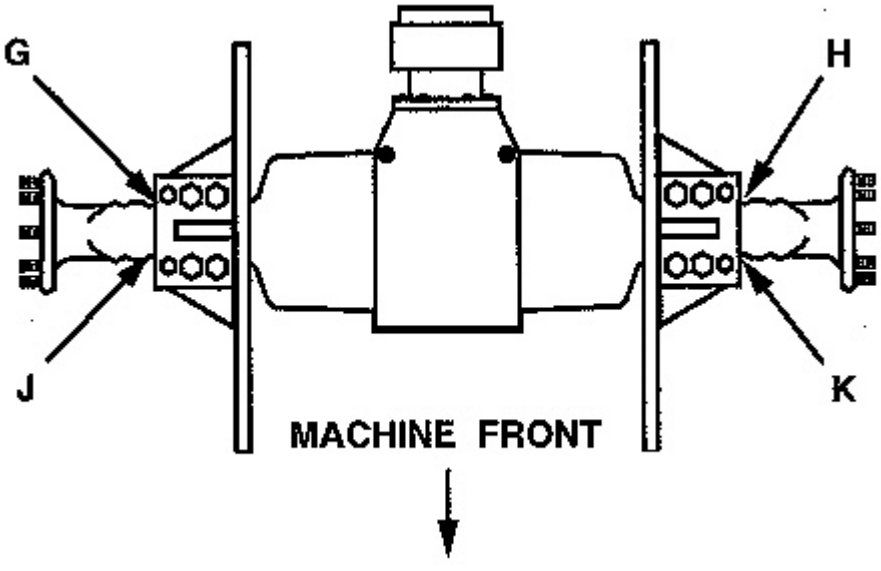


6. Install four bolts (3) and two bolts (4) on one side on the machine. Tighten the bolts in the sequence shown. Tighten four (3/4 in) bolts (3) to a torque of **275 N·m (200 lb ft).**Tighten two (5/8 in) bolts (4) to a torque of **240 N·m (175 lb ft).**

7. Using the same sequence, retighten four (3/4 in) bolts (3) to a torque of **430 N·m (320 lb ft).**Retighten two (5/8 in) bolts (4) to a torque of **240 N·m (175 lb ft).**



8. On the opposite side of the machine, measure the gap (X) between the axle and the frame.



9. Measure the gap at locations (G) and (J). If the gap is less than **1.5 mm (.06 in)**, repeat Steps 6 and 7 on the remaining side. If the gap at location (G) or (J) is greater than **1.5 mm (.06 in)**, install one **1G-8271 Shim.**If the gap at location (G) or (J) is greater than **2.5 mm (.10 in)**, install one **1G-8271 Shim**on each side of the frame. Use one shim in the gap and one shim diagonally across the gap between the frame and axle.

EXAMPLE:

a. The bolts at locations (H) and (K) are installed and torqued first.

b. The gap is measured at locations (G) and (J). The axle makes contact with the frame at location (G) and a gap of **2.8 mm (.11 in)**is measured at location (J). Install one **1G-8271 Shim**at location (J) and one **1G-8271 Shim**at location (H).

10. Repeat Steps 6 and 7 on the side of the axle where the shims were added.

NOTE: If shims were added on both sides of the axle repeat Steps 6 and 7 on both sides of the axle.

End By:

a. Install wheel assemblies.

b. Install axle gear reducer.

Disassemble Axle

Tools Needed		A	B	C	D	E
5P-0982	Repair Stand	1				
5P-0979	Adapter Tube	1				
FT-1870	Adapter Assembly	1				
8B-7551	Bearing Puller Attach.		1		1	
5P-4170	Step Plate		1			
8B-7548	Push-Puller		1		1	
5P-9736	Link Bracket			2		
8B-7555	Adapter				2	
9S-9154	Step Plate				1	
8B-7550	Leg				2	
8T-3111	Ring Gear Installer					1

Tools Needed		F	G	H	I	J
8B-7548	Push-Puller	1				1
8B-7550	Leg	2				
5P-4167	Adapter	1				
8H-0663	Bearing Puller Attach.	1				1
1P-0498	Step Plate		1			
2P-8312	Pliers			1		
1P-1864	Pliers				1	

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