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Specifications Systems Operation esting and Adjusting

CP-563E, CS-563E, CS-573E and CS-583E Vibratory Compactors Vibratory System

ASA1-Up (Machine) CEB1-Up (Machine) **BWE1-Up (Machine)** CNG1-Up (Machine) DAJ1-Up (Machine) **CNN1-Up (Machine)** CNT1-Up (Machine) CNX1-Up (Machine)

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Important Safety Information

Most accidents that involve product operation, maintenance and repair are caused by failure to observe basic safety rules or precautions. An accident can often be avoided by recognizing potentially hazardous situations before an accident occurs. A person must be alert to potential hazards. This person should also have the necessary training, skills and tools to perform these functions properly.

Improper operation, lubrication, maintenance or repair of this product can be dangerous and could result in injury or death.

Do not operate or perform any lubrication, maintenance or repair on this product, until you have read and understood the operation, lubrication, maintenance and repair information.

Safety precautions and warnings are provided in this manual and on the product. If these hazard warnings are not heeded, bodily injury or death could occur to you or to other persons.

The hazards are identified by the "Safety Alert Symbol" and followed by a "Signal Word" such as "DANGER", "WARNING" or "CAUTION". The Safety Alert "WARNING" label is shown below.

The meaning of this safety alert symbol is as follows:

Attention! Become Alert! Your Safety is Involved.

The message that appears under the warning explains the hazard and can be either written or pictorially presented.

Operations that may cause product damage are identified by "NOTICE" labels on the product and in this publication.

Caterpillar cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this publication and on the product are, therefore, not all inclusive. If a tool, procedure, work method or operating technique that is not specifically recommended by Caterpillar is used, you must satisfy yourself that it is safe for you and for others. You should also ensure that the product will not be damaged or be made unsafe by the operation, lubrication, maintenance or repair procedures that you choose.

The information, specifications, and illustrations in this publication are on the basis of information that was available at the time that the publication was written. The specifications, torques, pressures, measurements, adjustments, illustrations, and other items can change at any time. These changes can affect the service that is given to the product. Obtain the complete and most current information before you start any job. Caterpillar dealers have the most current information available.

When replacement parts are required for this product Caterpillar recommends using Caterpillar replacement parts or parts with equivalent specifications including, but not limited to, physical dimensions, type, strength and material.

Failure to heed this warning can lead to premature failures, product damage, personal injury or death.

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Specifications Section

i01815656

Vibratory Lines Group

SMCS Code: 5057

- S/N: ASA1-Up
- S/N: BWE1-Up
- S/N: CNG1-Up
- S/N: CNT1-Up

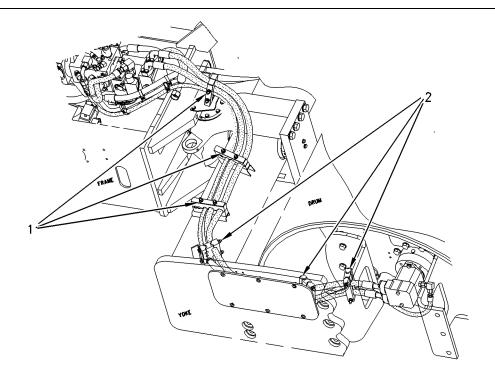


Illustration 1

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- (1) Torque for bolts 30 \pm 7 N·m (22.1 \pm 5.2 lb ft)
- (2) Torque for bolts 30 ± 7 N·m (22.1 ± 5.2 lb ft)

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Vibratory Lines Group

SMCS Code: 5057

S/N: CEB1-Up

S/N: DAJ1-Up

S/N: CNN1-Up

S/N: CNX1-Up

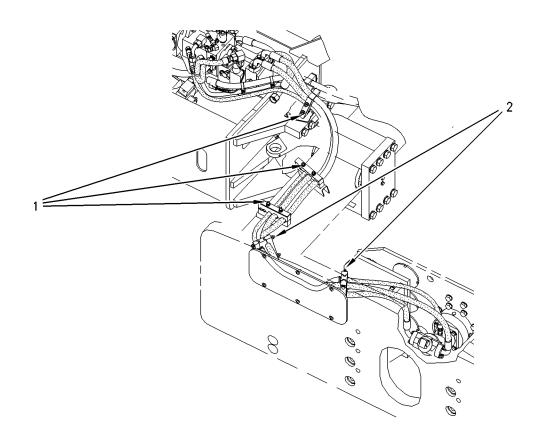


Illustration 2

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- (1) Torque for bolts 30 \pm 7 N·m (22.1 \pm 5.2 lb ft)
- (2) Torque for bolts 30 \pm 7 N·m (22.1 \pm 5.2 lb ft)

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Piston Pump (Vibratory System)

SMCS Code: 3222; 5051; 5070; 5455; 5652

S/N: ASA1-Up

S/N: BWE1-Up

S/N: CNG1-Up

S/N: CNT1-Up

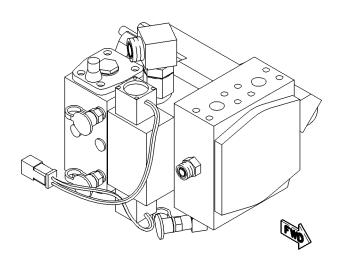


Illustration 3 g00926857
Maximum displacement 39 cc/rev (2.3798 in ³ /rev)
Relief valve setting 35000 kPa (5076.4 psi)
Direction of the rotation of the shaft Clockwise
Setting for the resistance of the vibratory solenoids
Low setting for the variable frequency controller 1400 \pm 50 vpm
High setting for the variable frequency controller

Piston Pump (Vibratory System)

SMCS Code: 3222; 5051; 5070; 5455; 5652

S/N: CEB1-Up

S/N: DAJ1-Up

S/N: CNN1-Up

S/N: CNX1-Up

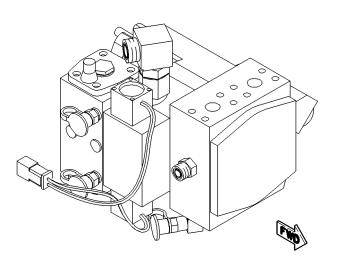


Illustration 4

g00926919 Maximum displacement 46 cc/rev (2.8 in³/rev) Relief valve setting 35000 kPa (5076.4 psi) Direction of the rotation of the shaft Clockwise Setting for the resistance of the vibratory Low setting for the variable frequency controller 1400 \pm 50 vpm

High setting for the variable frequency controller 1800 ± 50 vpm

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Support and Vibratory Drive

SMCS Code: 6605; 6606

S/N: ASA1-Up

S/N: BWE1-Up

S/N: CNG1-Up

S/N: CNT1-Up

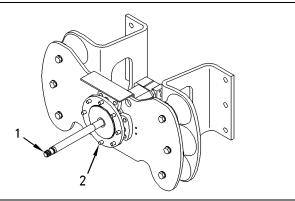


Illustration 5

g00927238

- (1) Apply 6V-4876 Lubricant to the splines at both ends of the shaft.
- (2) Apply **9S-3263** Thread Lock Compound to the threads of eight bolts.

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Support and Vibratory Drive

SMCS Code: 6605; 6606

S/N: CEB1-Up

S/N: CNN1-Up

S/N: CNX1-Up

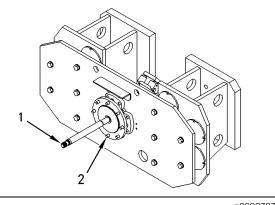


Illustration 6

g00927279

- (1) Apply **6V-4876** Lubricant to the splines at both ends of the shaft.
- (2) Apply **9S-3263** Thread Lock Compound to the threads of eight bolts.

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Piston Motor (Vibratory System)

SMCS Code: 5051; 5058; 5066; 5651

S/N: ASA1-Up

S/N: BWE1-Up

S/N: CNG1-Up

S/N: CNT1-Up

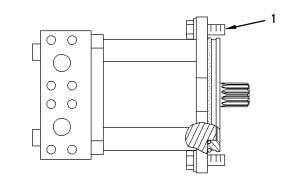


Illustration 7

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Note: Motor rotation can be clockwise or counterclockwise depending on the direction of oil flow in the closed circuit loop line.

Type of motor piston

Fixed displacement 44.5 cc (2.72 in³)

Apply **9S-3263** Thread Lock Compound to the threads (1).