CEBM005101

Shop Manual

KOMATSU®

avance® plus

WA120-3MC

WHEEL LOADER

SERIAL NUMBERS **WA120-3MC - A31001** and UP

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CONTENTS

01	GENERAL	01-1
10	STRUCTURE AND FUNCTION	10-1
20	TESTING, ADJUSTING AND TROUBLESHOOTING	20-1
30	DISASSEMBLY AND ASSEMBLY	30-1
40	MAINTENANCE STANDARD	40-1
90	OTHER	90-1

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PRODUCT PUBLICATIONS INFORMATION

Various product Parts and Service Publications are available to all **KOMATSU** construction equipment owners, including operation and maintenance manuals, parts books and service manuals.

Special publications, such as service tool, air conditioning and turbocharger service manuals are also available as well as selected Operation and Service manuals in foreign languages.

The Publications listed below are available for this particular machine(s).

DESCRIPTION	FORM NUMBER
PARTS BOOK - PAPER:	
Chassis and Engine	BEPB008800
OPERATION AND MAINTENANCE MANUAL:	
Chassis and Engine	CEAM007700
SHOP MANUAL	
Chassis	CEBM005101
Engine	SEBM010011
SAFETY MANUAL	
Machine specific	WLT70-1

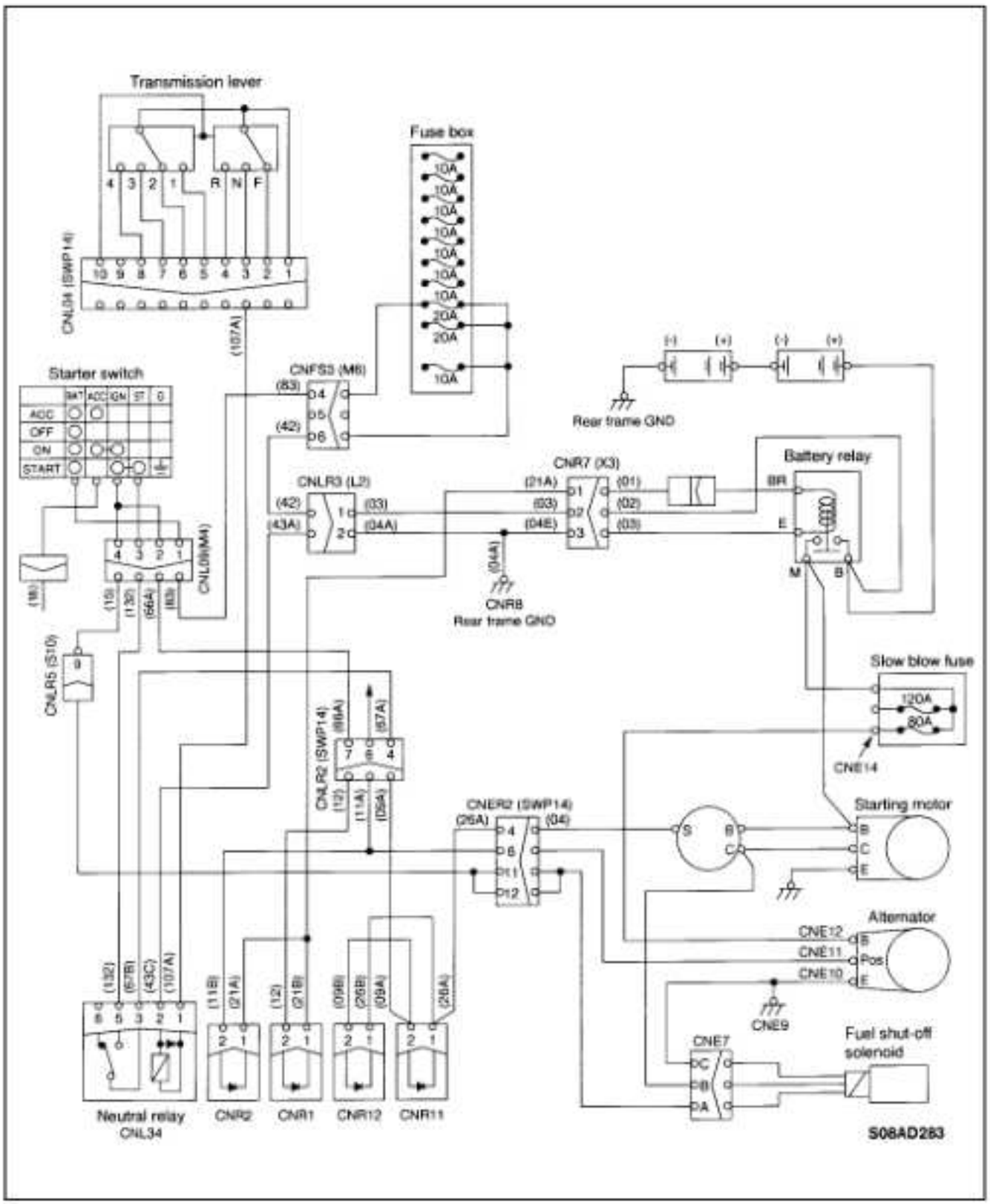
Parts and Service Publications can *only* be acquired by authorized KOMATSU distributors using the Komatsu America International Company Parts Inventory Processing System (PIPS) or the Extranet Literature Ordering System.

If the PIPS system is not available at the distributor location, then the following Requisition for Technical Service Publications and Service Forms can be used. Form KDC91E is shown on the reverse side of this page.

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ELECTRICAL CIRCUIT DIAGRAMS

ENGINE START, STOP SYSTEM



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Judgement

1. Insufficient refrigerant in system - refrigerant leaking.

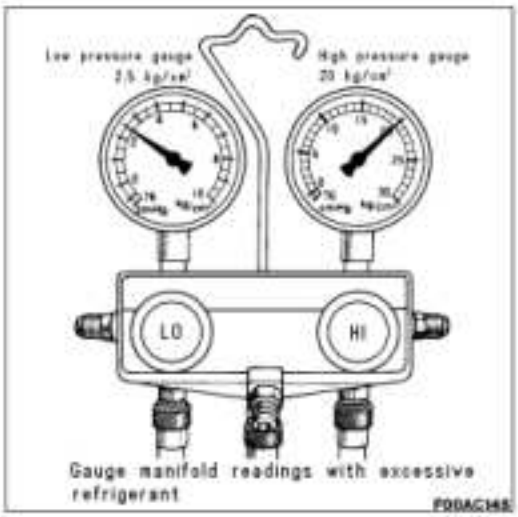
Remedy

1. Check for leakage with leak tester, repair.
2. Add refrigerant to correct level.

EXCESSIVE REFRIGERANT OR INSUFFICIENT COOLING OF CONDENSER

Conditions

1. Very little cooling effect



Gauge manifold readings with excessive refrigerant
PDDAC145

Symptoms in refrigerating system

1. Pressure high at both low and high pressure ends.

Cause

1. There is excessive refrigerant in the system, so the capacity is not being fully displayed.

Judgement

1. Excessive refrigerant in system - too much refrigerant.
2. Defective cooling of condenser - clogged condenser fins or loose fan belt.

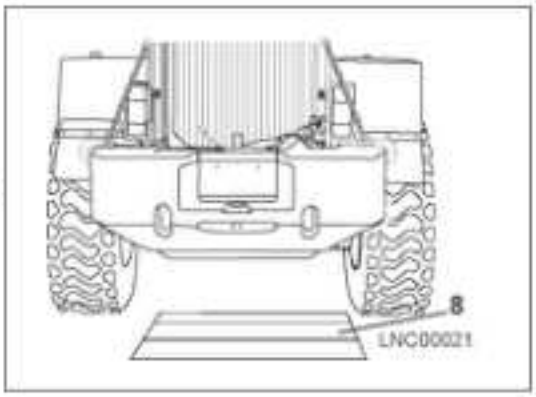
Remedy

1. Clean condenser (with water).
2. Correct tension of fan belt.
3. Replace condenser fan motor.
4. If items 1, 2 and 3 are normal, check the amount of refrigerant.

For details, see page 20-1023, "Check refrigerant level".
When discharging the refrigerant, push the schrader valve on the low pressure side of the gauge manifold and discharge the refrigerant gradually.

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4. Rear counterweight.



kg Counterweight: 1210 kg (2667.6 lb)

A. Using proper size hook and chain, hoist counter weight (to relieve pressure on mount bolts).

B. Remove four (4) mount bolts.

WARNING! Rear counterweight may **swing out** from machine when the last bolt is removed.

C. Rest rear counterweight on a pallet (8).

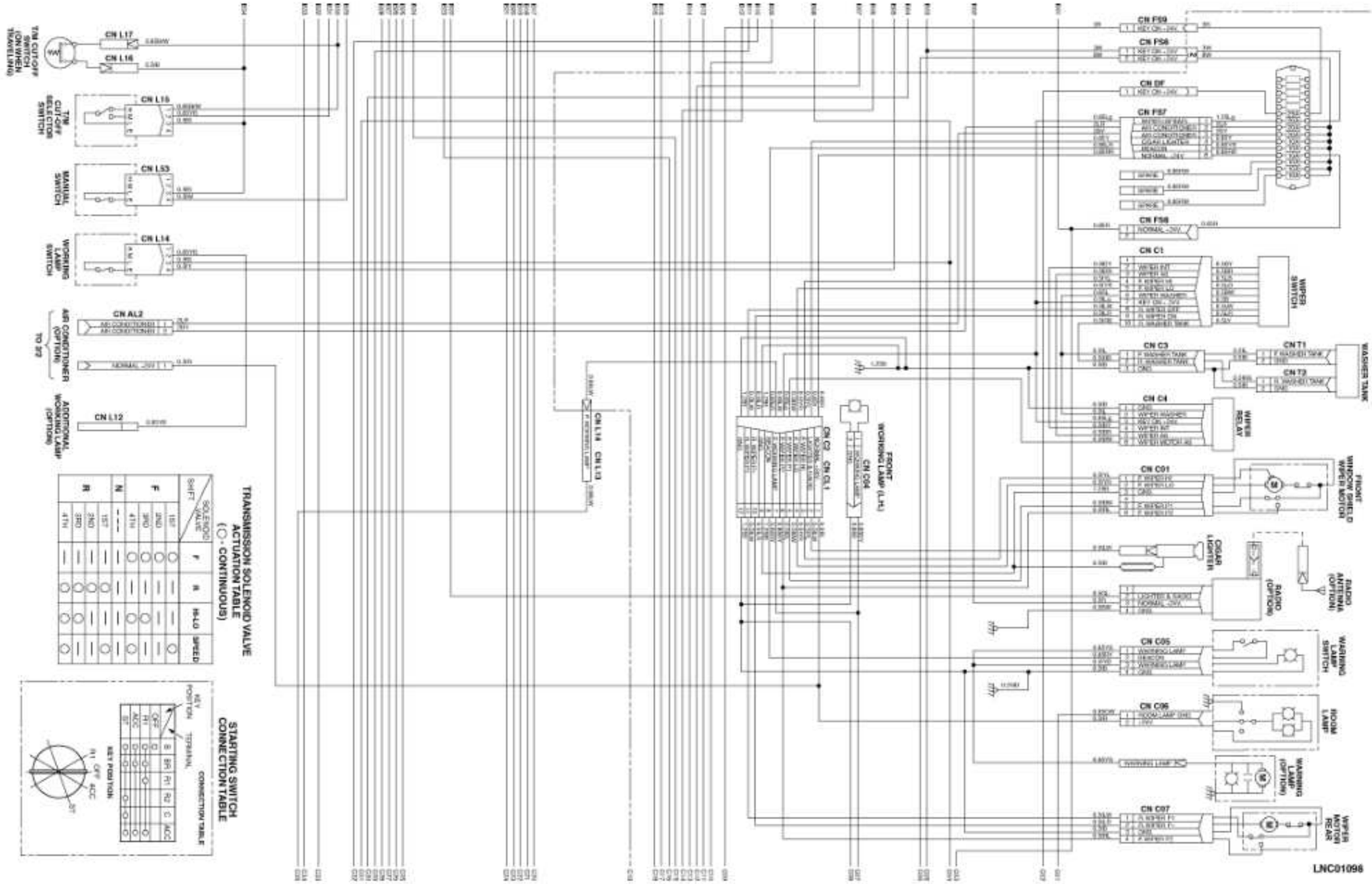
INSTALLATION OF REAR COUNTERWEIGHT

- Install rear counterweight in reverse order of removal.

  Mount bolt: 927 ± 98 Nm (683.7 ± 72.2 lbf ft)

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DIAGRAM (3/4)



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