

GEHL®

Form No.
909882
Revision B
Oct. 2008

Model 521

Wheel Loader

Serial Numbers 302000162 to 312010012



Parts Manual

INTRODUCTION

When ordering service parts, specify the correct part number, full description, quantity required, the unit model number and serial number. For your safety and continued proper operation, use only genuine GEHL service parts.

The model and serial number for this unit are on a tag located on a panel on the front of the cab.

“Right” and “left” are determined from a position sitting on the operator’s seat and facing forward.

GEHL Company reserves the right to make changes or improvements in the design or construction of any part of the unit without incurring the obligation to install such changes on any previously delivered units.

Refer to the abbreviations table located on this page for special parts descriptions. Standard attaching hardware torque values are also provided near the back of this manual. Metric torque values shown in the illustrations are in Newton-meters and are converted to foot-pounds by multiplying by 0.738.

Specific reference numbers, indicating a complete assembly, are circled in some illustrations. A small bag, pictured in some illustrations, indicates a seal kit (seals, o-rings, etc.). In the exploded view parts list, additional information may follow the Reference Number.

Serial number breaks are indicated as follows:

- (SN 999 and before) - indicates serial numbers up to and including 999.
- (SN 1000 - 2000) - indicates serial numbers between 1000 and 2000.
- (SN 999 and up) - indicates serial numbers including 999 and after.

Serial number exceptions and inclusion are indicated as follows:

- (SN 999 and before except 997) - indicates serial numbers up to and including 999, EXCEPT 997.
- (SN 1000 - 2000 except 1996 including 997) - indicates serial numbers between 1000 and 2000, INCLUDING 997 EXCEPT 1996.

- (SN 2001 and up including 1996) - indicates serial numbers including 2001 and after, INCLUDING 1996.

Unless otherwise specified, all cap screws and bolts are Grade 8.8, cadmium or zinc plated.

NOTE: *The following abbreviations may be used herein:*


ASSD.....	Assembled
ASY/ASSY	Assembly
AR	As Required
CB	Carriage Bolt
CP	Cotter Pin
CS	Cap Screw (Hexagon Head)
CYL.....	Cylinder
DIA.....	Diameter
FHCS.....	Flat Head Cap Screw
GR	Grade
HB	Hex Bolt
HLN.....	Hex Lock Nut
HN	Hex Nut
HP.....	High Pressure
HYD	Hydraulic
INS	Insert
LH	Left Hand
LN	Lock Nut
LT	Left
LW.....	Lock Washer
M	Meter or Meters
MM/mm	Millimeter
NPT	National Pipe Threaded
NSS	Not Sold Separately
OS.....	Over-Sized
RH	Right Hand
RT	Right
SHCS.....	Socket Head Cap Screw
SLTD	Slotted
SN.....	Serial Number or Slotted Nut
SQ.....	Square
US.....	Under-Sized
W/	With
W/O	Without
	Measurement Required

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DECALS

GENERAL INFORMATION

Decal information is provided to proper select and apply new decals if the original decals are damaged or the machine is repainted. The listing includes decal illustration reference number, part number, description and quantity information.

To ensure proper selection of the correct replacement decals, compare all of the various decal illustrations to the machine before refinishing the unit. Then circle each decal shown (applicable to the machine) while checking off its part number in the listing.

NOTE: Refer to the *SAFETY* chapter of the *Operator's Manual* for the specific information provided on the various safety decals furnished in the decal kit(s).

NEW DECAL APPLICATION

Surfaces **MUST** be free from dirt, dust, grease and other foreign material before applying the new decal. To apply, remove the smaller portion of the decal backing paper and apply this part of the exposed adhesive backing to the clean surface while maintaining proper position and alignment. Peel the other portion of the backing paper off slowly while applying hand pressure to smooth out the decal surface.

Decals for the 521 All-Wheel Steer (AWS) Loader are listed below:

Ref. No.	Part No.	Description	Qty.
	203242	Decal Kit/521 AWS	
1	1004357032	Eye Hook	4
2	0004355633	Warning/Moving Parts	2
3	0004355833	Danger Sign/Side (Large)	2
4	0004355533	Danger Sign/Rear (Small)	1
5	139728	Gehl/Front 3.77 x 17.69	1
6	139732	Gehl/Side 5.63 x 26.53	2
7	139733	Gehl/Rear 8.00 x 37.95	1
8	139778	All-Wheel Steer	1
9	0004351529	20 Km/h (Side/Standard)	2
10	0004353329	20 Km/h (Rear/Standard)	1
11	0004351629	40 Km/h (Side/Optional)	2
12	0004353429	40 Km/h (Rear/Optional)	1
13	0004353146	Load Diagram/Pallet Forks	1
14	0004357434	Joystick Control	1
15	0004350237	Noise Level (dB)/Inside Cab	1
16	1004357433	Noise Level (dB)/Guaranteed Value	1
17	0004351589	Maintenance Schedule	1
18	0004351144	Arrow Mark	1
19	0004357527	ATF	1
20	0004351536	Biodegradable Oil	1
21	0004359834	Warning/Stay in Cab	1
22	0004359734	Warning/Use Seat Belt	1
23	139724	521/Side	2



CAUTION

ALWAYS follow safety precautions on decals. Replace the decals if they are damaged, or if the unit is repainted. If repainting, **BE SURE** all applicable decals are affixed to the unit.


Use the above reference numbers to identify the corresponding decals on the next page.


PAINT NOTICE


Use this list to order paint for refinishing:


167768	4 quarts AWS Yellow (GEHL)
167758	4 quarts Charcoal Gray (GEHL)
167774	4 quarts Dark Gray (GEHL)
167769	6 spray cans (12.8 oz.) AWS Yellow (GEHL)
167775	6 spray cans (12.8 oz.) Dark Gray (GEHL)
167760	6 spray cans (12.8 oz.) Charcoal Gray (GEHL)


DECALS


1 


2 


3, 4 

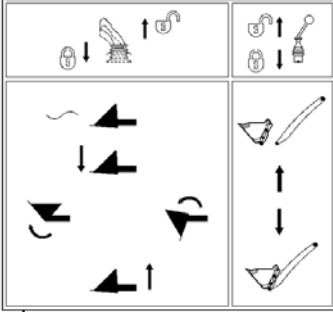
5, 6, 7 


8 


9, 10 


11, 12 


13 


14 

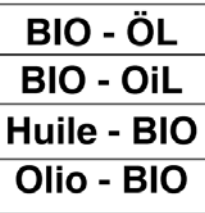
15 


16 


17 


18 

19 

20 

21 

22 

23 

Traglastdiagramm
Load diagram
Diagramme de charges

S = 1,25 kg S = 1,67 kg

Reifenbezeichnung Tyres Pneumatiques	vorn (bar) front (bar) AV (bar)	hinten (bar) rear (bar) AR (bar)
XXXXXXXXXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXX	XXXX
XXXXXXXXXXXX	XXXX	XXXX

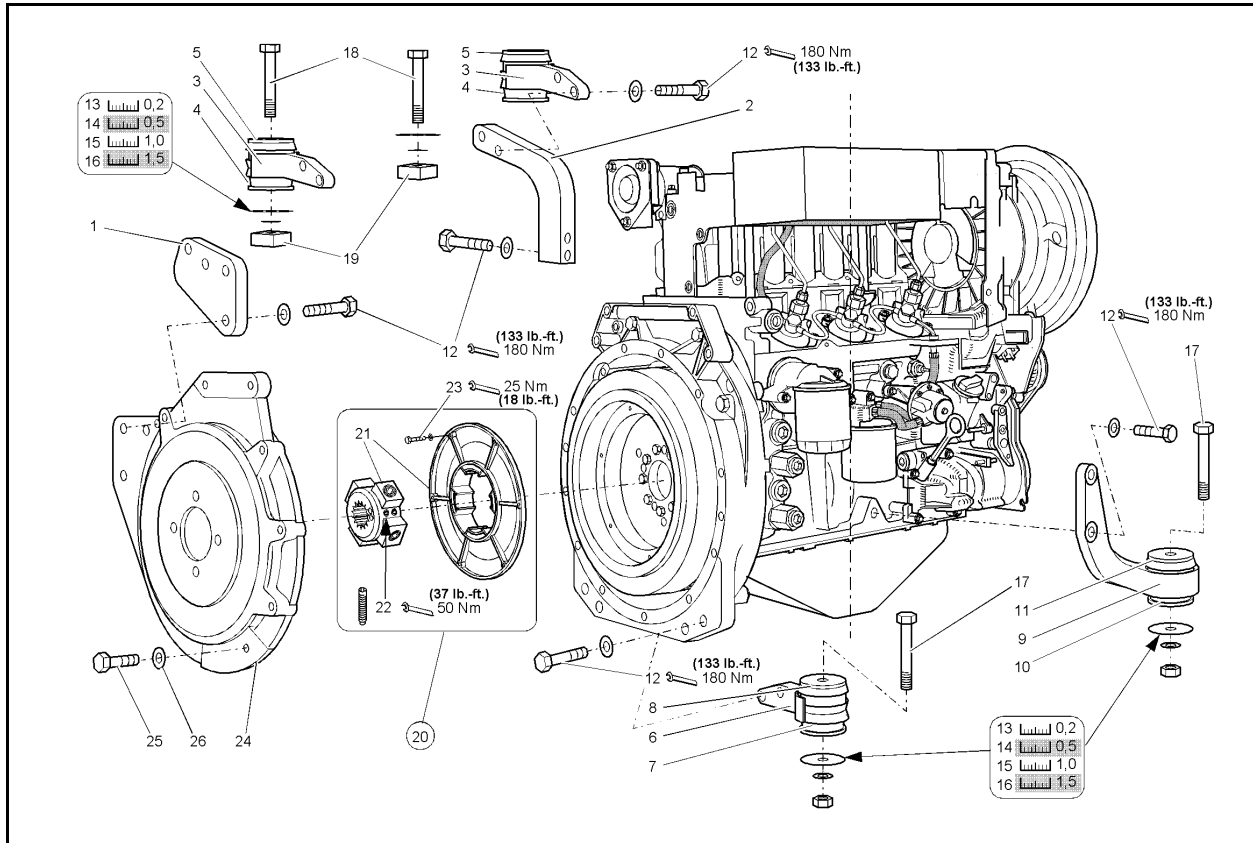
Gültig für Anbaugerät Nr. XXXX
Valid for attachment Nr. XXXX
Valable pour équipement Nr. XXXX

Bei Stapelbetrieb Luftdruck vorne um 0,8bar erhöhen!
Increase tyre pressure by 0,8bar during pallet forks operation!
Augmenter la pression pneumatique de 0,8bar en service porte-palette!

Typ XXXXX

521 - ENGINE MOUNTS

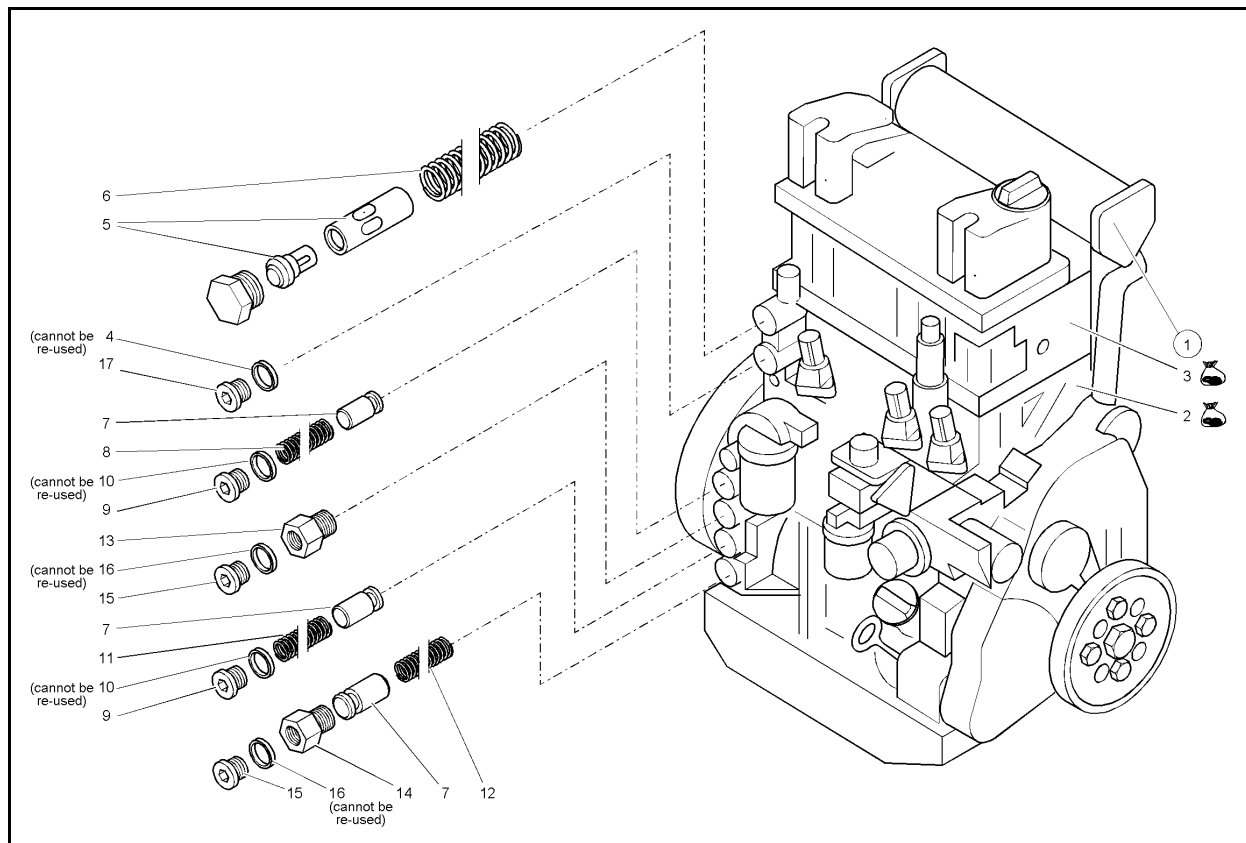
1000137387



Ref. No.	Part No.	Description	Qty.	Ref. No.	Part No.	Description	Qty.
1	1380120143	SUSPENSION	1	14	0009976519	SPACER (0.5MM)	AR
2	1380120043	SUSPENSION	1	15	0009976619	SPACER (1.0MM)	AR
3	0000801410	BEARING	2	16	0009976719	SPACER (1.5MM)	AR
4	0000801926	RUBBER RING	4	17	7234677594	HS M12 X 85 8.8 A2C	2
5	0000801925	COVER	1	18	651403	HB M12-1.75 X 100 C8.8 ZY	2
6	0000801411	BEARING	1	19	1009953684	THREADED ELEMENT 30 X 20 X 40 FE/ZN12	2
7	0000801926	RUBBER RING	2	20	0360110203	CLUTCH	1
8	0000801925	COVER	1	21	0000801459	ELASTIC ELEMENT	1
9	0000801989	SUPPORT STAND	1	22	7382679050	THREADED PIN M12 X 15-45H A2C	2
10	0000801926	RUBBER RING	2	23	656094	CS M8-1.25 X 30 C8.8 ZY	6
11	0000801925	COVER	1	24	1360110326	HOUSING COVER	1
12	7234678147	HS M14 X 55-10.9	12	25	7234677557	HS M10 X 45-8.8 A2C	6
13	0009976419	SPACER (0.2MM)	AR	26	0009923528	SPRING WASHER VSK 10	6

521 - ENGINE

1000137529



Ref. No.	Part No.	Description	Qty.
1	0380101403	ENGINE/DEUTZ F4M 1011F	1
2	0000803947	SEAL KIT	1
3	0000804276	SEAL KIT	1
4	163793	SEAL	2
5	0000803948	THERMOSTAT	1
6	0000802640	COMPRESSION SPRING	1
7	0000802673	VALVE	3
8	0000802674	COMPRESSION SPRING	1
9	7332673007	SCREW PLUG M24 X 1.5 ST A2C	2

Ref. No.	Part No.	Description	Qty.
10	7593641038	SEALING RING A24 X 29	2
11	0000802675	COMPRESSION SPRING	1
12	0000802676	COMPRESSION SPRING	1
13	133409	ADAPTOR	1
14	133410	ADAPTOR	1
15	133151	SCREW PLUG M18 X 1.5 ST A2C	2
16	7593641028	SEALING RING A18 X 22	2
17	7334670001	SCREW PLUG M10 X 1 ST A2C	2

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