GRADALL®

Illustrated Parts Manual

Models

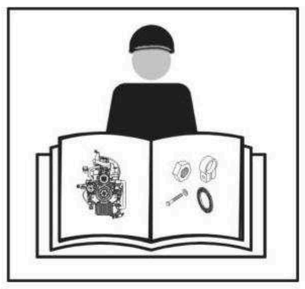
522

524

S/N 0177005 thru 0177427

***P/N - 91**08-4020*

Revised July 6, 2007



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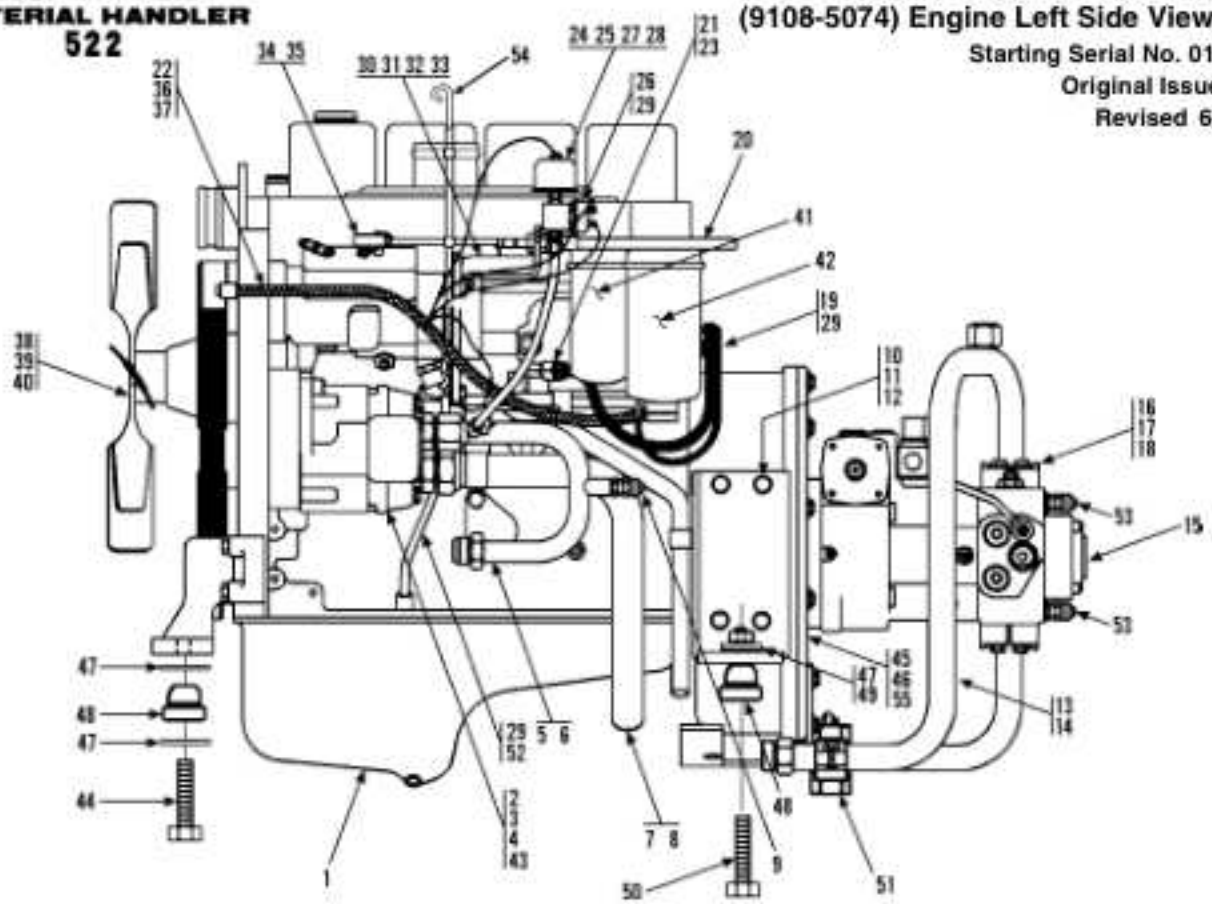
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ENGINE & ATTACHING PARTS
(9108-5074) Engine Left Side View(522)

Starting Serial No. 0177005
Original Issue 1-90
Revised 6-01-05



Item	Part No.	Qty.	Description Of Part
1	9108-3012	1	CUMMINS ENGINE
2		Ref	MAIN HYDRAULIC PUMP, (see page 10-14 for details)
3	9108-3143	2	HEX HD CAPSCREW, M12X1.75X75
4	8319-1010	2	LOCKWASHER, M12
5	9108-3233	1	TUBE ASSY
6	8866-2010	1	CONNECTOR, (includes o-ring)
	8859-1209	1	O-RING
7	9108-3144	1	SUCTION TUBE
8	8866-2011	1	CONNECTOR, (includes o-ring)
	8859-1210	1	O-RING
9	7713-3089	1	TEST FITTING
10	9108-6034	2	REAR ENGINE MOUNT
11	8319-1032	8	HEX HD CAPSCREW, M12X1.75X35, (torque to 58-68 ft.lbs.)
12	8319-1010	8	LOCKWASHER, M12
13	9108-3419	1	TUBE ASSY
14	9108-3106	1	O-RING
15		Ref	HYDROSTATIC TRANS. PUMP, (see page 10-15 for details)
16	8471-2738	2	SPLIT FLANGE CLAMP
17	8320-1135	4	HEX HD CAPSCREW, 7/16-14X1-1/2, GR8
18	8855-1012	4	LOCKWASHER, 7/16
19		52"	FUEL LINE HOSE, 7/32" I.D.
20	9108-3404	1	THROTTLE CABLE
21		56"	FUEL LINE HOSE, 5/16" I.D.
22	2486-1170	1	SUPPORT CLAMP
23	9003-0271	1	HOSE NIPPLE
24	2474-1047	1	OIL PRESSURE SWITCH
25	9108-1388	1	TAPPED BAR
26	9103-3246	1	OIL PRESSURE SENDER
27	8688-3075	2	TUBE FITTING

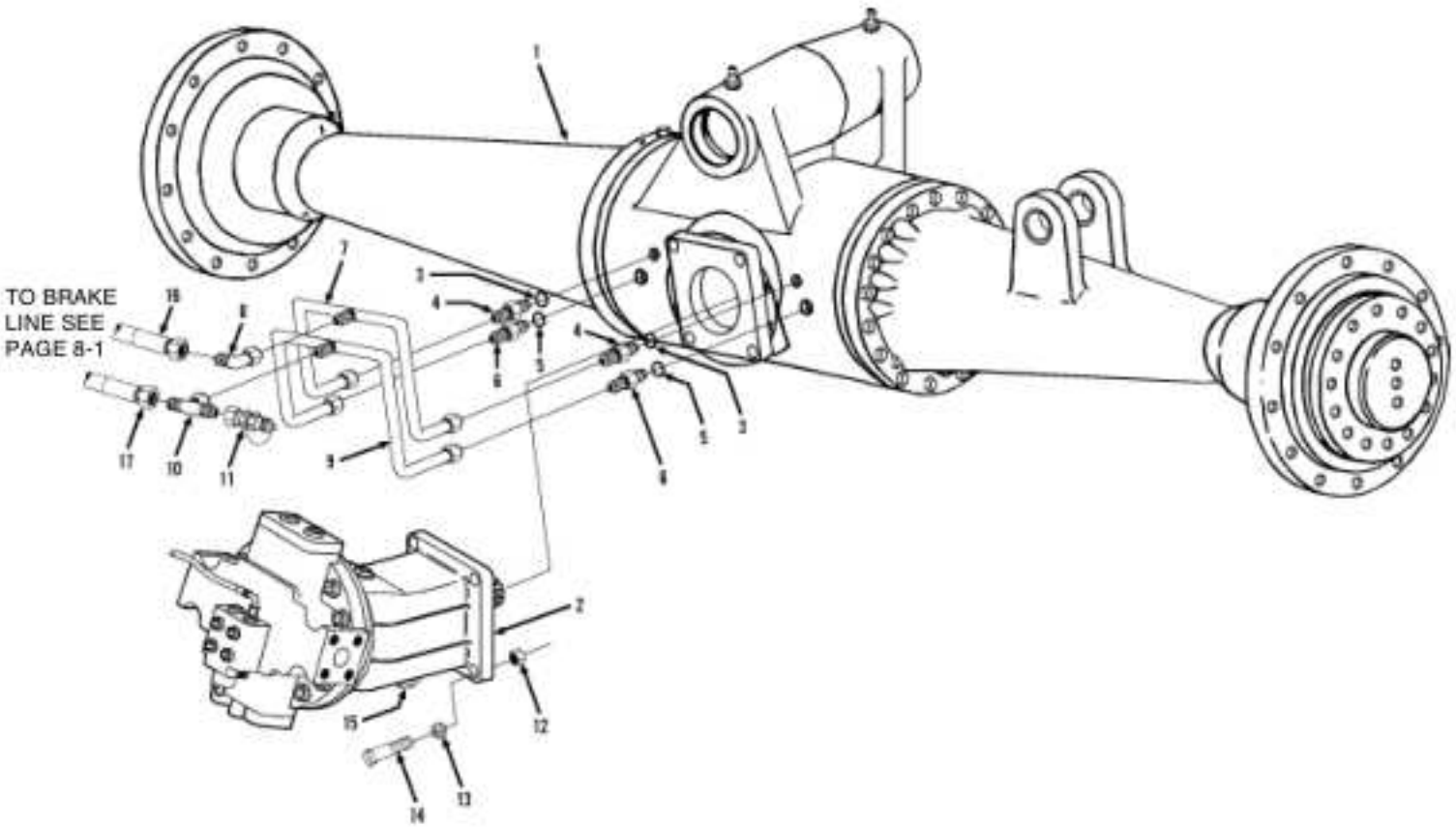
Item	Part No.	Qty.	Description Of Part
28		18"	3/8 NYLON TUBE
29	9002-7187	5	TY-RAP
30	9108-1243	1	THROTTLE CABLE BRACKET
31	8820-1005	2	HEX HD CAPSCREW, 1/4-20X1, GR5
32	8855-1009	2	LOCKWASHER, 1/4
33	8850-1616	2	HEX NUT, 1/4-20
34	9002-7908	1	BALL JOINT
35	8850-1613	1	HEX NUT, #10-32
36		Ref	ENGINE WIRING HARNESS, (see page 11-1 for details)
37	9002-7187	1	TY-RAP
38	9130-3056	1	FAN ASSY
39	8319-1041	4	HEX HD CAPSCREW, M8X1.25X70
40	8856-1108	4	FLAT WASHER, 5/16
41	7738-3202	1	PRIMARY FUEL FILTER ELEMENT
42	7738-3203	1	SECONDARY FUEL FILTER ELEMENT
43	9002-7471	2	WASHER
44	9108-3338	1	HEX HD CAPSCREW, M16X2X120
*45	9134-4048	1	PUMP MOUNT PLATE
*46	9108-4312	1	COUPLING ASSY, (bolts included)
47	9108-1158	4	SPECIAL WASHER
48	8688-1227	3	LORD MOUNT
49	8852-1010	2	LOCKNUT, 5/8-11
50	8820-1106	2	HEX HD CAPSCREW, 5/8-11X4-1/2, GR5
51	9020-5792	1	CUSHION CLAMP
52	9108-3493	10"	SPLIT LOOM, 1/2" I.D.
53	9108-3475	2	STAUFF TEST COUPLING
54	9112-4125	1	DIPSTICK
55	9108-3019	1	PUMP MOUNT & FLYWHEEL COUPLING, (includes items 45 & 46)
			NOTE: ONLY ITEMS WITH PART NUMBERS ARE AVAILABLE FOR SERVICE.

** Changed part number on item 45; description on items 45 & 46.*

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DRIVE TRAIN
(9109-5023) Front Axle Assembly - 522
(9112-5047) Front Axle Assembly - 524

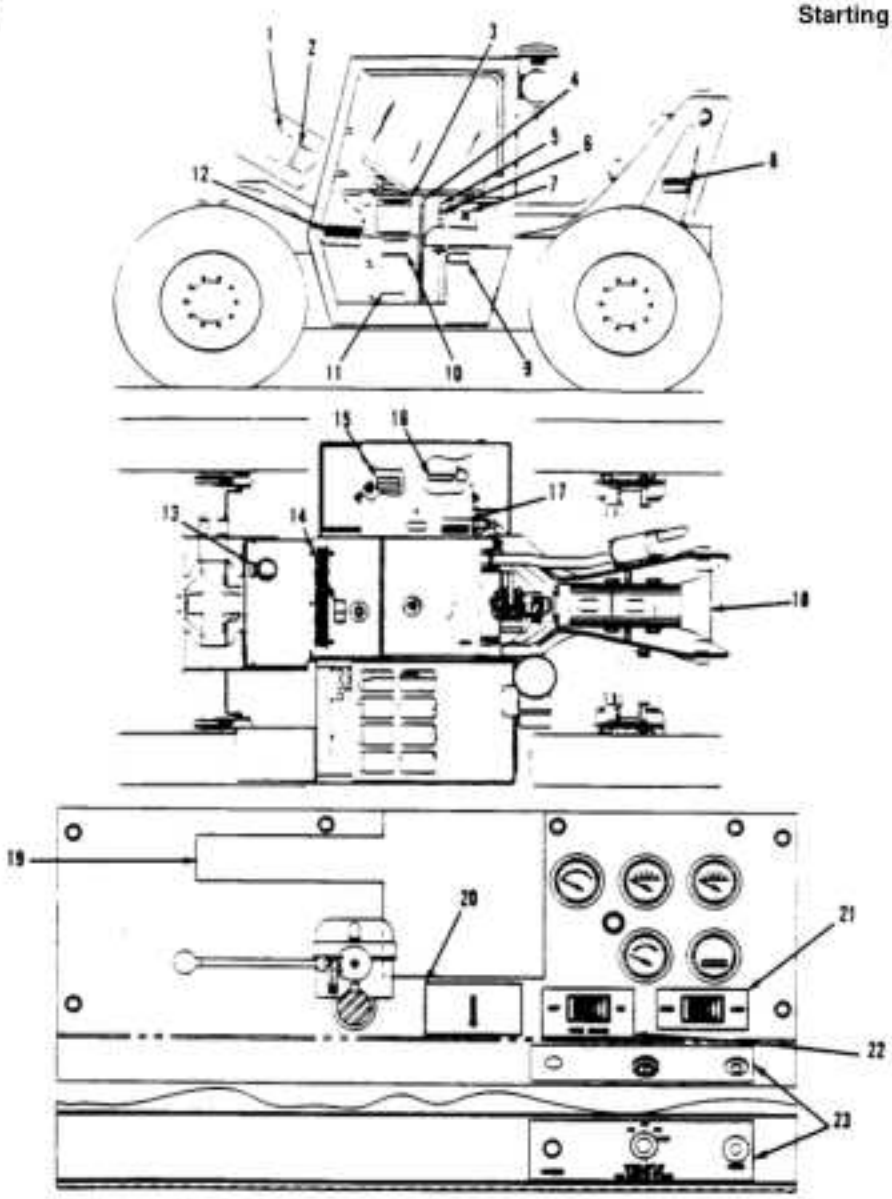
Starting Serial No. 0177165
Original Issue 3-96



Item	Part No.	Qty.	Description Of Part
	9109-5023	1	FRONT AXLE ASSY - 522C-6 (includes items 1 thru 15)
	9112-5047	1	FRONT AXLE ASSY - 524C-6 (includes items 1 thru 15)
1		Ref	FRONT AXLE (see page 6-2 for details)
2		Ref	FRONT DRIVE MOTOR - 522C-6 (see page 10-17 for details)
		Ref	FRONT DRIVE MOTOR - 524C-6 (see page 10-16 for details)
3	8859-1205	2	O-RING
4	8866-2006	2	CONNECTOR (includes item 3)
5	8859-1204	2	O-RING
6	8866-2005	2	CONNECTOR (includes item 5)
7	9112-3130	1	PARK BRAKE TUBE LINE
8	8866-2106	1	ELBOW, 90 DEGREES (swivel nut)
9	9112-3127	1	SERVICE BRAKE TUBE LINE
10	8866-2224	1	SWIVEL NUT BRANCH TEE, 3/8 TUBE
11	9114-3172	1	MINI CHECK VALVE
12	8850-1012	4	HEX NUT, 3/4-10
13	9002-7473	4	HARD WASHER, 3/4
14	8320-1058	4	HEX HD CAPSCREW, 3/4-10X3-3/4, GR8
15	8866-2194	1	HEX SOCKET HD PLUG, (includes o-ring)
	8859-1206	1	O-RING
16	8471-8153	1	HOSE ASSY
17	8471-8021	1	HOSE ASSY

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NOTE: KITS 9109-5010 & 9109-5043 INCLUDE ALL ITEMS LISTED BELOW, EXCEPT ITEM 11, PLUS THE APPROPRIATE ITEMS ON PAGE 12-2.

Item	Part No.	Qty.	Description Of Part
	9109-5010	Ref	DECAL KIT, 522 (see note)
	9109-5043	Ref	DECAL KIT, 524 (see note)
1	8360-1011	1	ACCIDENT PREVENTION DECAL
2	9104-3215	1	LIFTING PERSONNEL DECAL
3	9106-3047	1	WARNING DECAL
4	9100-3044	1	BOOM OPERATION DECAL
5	9108-3317	1	TILT DECAL
6	9108-3318	1	SWAY DECAL
7	9108-3324	1	SERVICE INSTRUCTION DECAL
8	9104-3209	2	PINCH POINT DECAL
9	7733-3027	1	MADE IN U.S.A. DECAL
10	9100-3030	1	PATENT DECAL
11	9109-3005	1	SERIAL NO. & ATTACHMENTS PLATE (522)
	9108-3325	1	SERIAL NO. & ATTACHMENTS PLATE (524)
12	9104-3211	1	RIDER'S WARNING DECAL
13	7702-3007	1	INSTRUCTION DECAL
14	9104-3210	1	COOLING SYSTEM CAUTION DECAL
15	9100-3052	1	FUEL WARNING DECAL
16	7702-3006	1	HYDRAULIC OIL DECAL
17	9103-3011	1	WARNING DECAL
18	8364-1675	2	GRADALL DECAL (white)
19	9108-3321	1	CAPACITY DECAL
20	9108-3314	1	TRACTION DECAL (524 only)
21	9108-3270	1	2WD-4WD DECAL (524 only)
22	9108-3269	1	PARK BRAKE DECAL
23	9108-3268	1	INSTRUMENT PANEL DECAL
			NOTE: KITS 9109-5010 & 9109-5043 INCLUDE ALL ITEMS LISTED BELOW, EXCEPT ITEM 11, PLUS THE APPROPRIATE ITEMS ON THE FOLLOWING PAGE.

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