

REPLACEMENT PARTS GUIDE

CHI-1
SEP

872G and 872GP Motor Grader (PIN: 1DW872G__F680878-)(PIN: 1DW872G__L700954-)



Required Parts

872G and 872GP Motor Grader (PIN: 1DW872G__F680878-)(PIN: 1DW872G__L700954-)

Sequence	Description	Image	PartNumber	Quantity	Interval Hrs	Remarks
1	Fuel Filter		AT365869	1	500	Auxiliary Fuel Filter Element (If Equipped)
2	Primary Fuel Filter		DZ130550	1	500	Primary Fuel Filter Element
3	Secondary Fuel Filter		DZ112919	1	500	Final Fuel Filter Element
4	Engine Oil Filter with Packing		DZ118283	1	500	Engine Oil Filter
5	Fuel Tank Vent Filter		H216169	1	1000	Fuel Tank Breather
6	Differential Lock Oil Filter		AT335492	1	2000	Axle Oil Filter, Also Replace Once at Initial 500 Hrs ¹
7	Differential Lock Oil Filter		AT335492	1	2000	Transmission Oil Filter, Also Replace Once at Initial 500 Hrs ¹
8	Hydraulic Oil Filter		AT367840	1	2000	6Wd Hydraulic Oil Filter (If Equipped)
9	Hydraulic Oil Reservoir Breather		AT101565	1	2000	Hydraulic Tank Breather

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Sequence	Description	Image	PartNumber	Quantity	Interval Hrs	Remarks
10	DEF Header Inlet Filter Kit		AT502964	1	2000	Diesel Exhaust Fluid (DEF) Header Suction Filter And Baffle
11	Diesel Exhaust Fluid (DEF) Injection Pump Filter Kit		DZ114640	1	2000	Diesel Exhaust Fluid (DEF) Dosing Unit Filter
12	Hydraulic Oil Filter		AT367840	1	2000	Hydraulic Oil Filter
13	Hydraulic Oil Reservoir Breather		AT101565	1	2000	Rear Axle Breather
14	Rocker Arm Seal		R526607	1	2000	Engine Rocker Arm Cover Gasket
15	Fuel Tank Vent Filter		H216169	1	4000	Diesel Exhaust Fluid (DEF) Tank Breather
16	Secondary Air Filter Element		AT311067	1	AR	Secondary Air Filter Element
17	Cab Recirculation Air Filter		AT307501	1	AR	Cab Recirculation Air Filter
18	Cab Air Filter		AT191102	1	AR	Cab Fresh Air Filter



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Sequence	Description	Image	PartNumber	Quantity	Interval Hrs	Remarks
19	Diesel Particulate Filter		DZ100484	1	AR	Engine Rocker Arm Cover Gasket
20	Primary Air Filter Element		AT311066	1	AR	Primary Air Filter Element
*Perform initial service once after the first 500 hours of operation						

Oil & Capacities

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Sequence	Description	Qty or Capacity	Interval Hrs	Remarks
1	John Deere Plus-50™ II Engine Oil	28.4 L (7.5 gal)	500	
2	John Deere Hy-Gard™ 6WD Hub Oil (if equipped) (each)	7.2 L (1.9 gal)	1000	
3	John Deere Hy-Gard™ Transmission and Axle Oil	61.5 L (16.2 gal)	2000	
4	John Deere Hy-Gard™ Circle Gear Case Oil (standard circle)	5.7 L (1.5 gal)	2000	
5	John Deere Hy-Gard™ Circle Gear Case Oil (premium circle)	6.4 L (1.7 gal)	4000	
6	John Deere Hy-Gard™ Tandem Oil (each)	74.0 L (19.5 gal)	4000	
7	John Deere Hy-Gard™ Hydraulic Oil	60.5 L (16.0 gal)	4000	
8	John Deere Cool-Gard™ II Pre-Mix	55.0 L (14.5 gal)	6000	

For recommended oil type and oil viscosities based on operating temperatures, see Maintenance—Machine. (Section 3-1.)

Plus-50 is a trademark of Deere & Company

Hy-Gard is a trademark of Deere & Company

Hydrau is a trademark of Deere & Company

Cool-Gard is a trademark of Deere & Company



Fluid Analysis Test Kits

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Sequence	Description	Part Number	Qty or Capacity	Interval Hrs	Remarks
1	Universal Fluid Analysis Kit	AT346594	1	250	Diesel Engine Oil Kit
2	Universal Fluid Analysis Kit	AT346594	1	500	Transmission Oil Kit
3	Universal Fluid Analysis Kit	AT346594	1	500	Axle Oil Kit
4	Universal Fluid Analysis Kit	AT346594	2	500	Tandem Oil Kit
5	Universal Fluid Analysis Kit	AT346594	1	500	Hydraulic Oil Kit
6	Universal Fluid Analysis Kit	AT346594	2	500	6WD Hub Oil Kit (if equipped)
7	Diesel Fuel Test Kit, 8 Ounce	AT180344	1	500	Diesel Fuel Kit
8	Regular Engine Coolant Kit	TY27787	1	500	Engine Coolant Kit

Based on fluid analysis results, intervals may need to be adjusted for operating conditions. See an authorized John Deere dealer.



Service Instructions

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Sequence	Service Hrs	Instructions
1	10	Check hydraulic tank oil level
2	10	Check transmission oil level
3	10	Check engine oil level
4	10	Check engine coolant surge tank level ⁴
5	50	Lubricate frame hinge pivots
6	50	Lubricate lift cylinders
7	50	Lubricate draft frame ball
8	50	Lubricate front mounted scarifier or dozer blade (if equipped)
9	50	Lubricate Balderson™ style front lift group (if equipped)
10	50	Lubricate front axle oscillation pin
11	50	Lubricate front axle lean pivot casting pins
12	50	Lubricate front axle lean bar pivot
13	50	Lubricate front axle steering pin
14	50	Lubricate tie rod ends
15	50	Lubricate steering cylinders
16	50	Lubricate midmount scarifier (if equipped)
17	50	Lubricate circle side shift cylinder
18	50	Lubricate saddle locking pin
19	250	Check hybrid battery electrolyte level (if equipped)
20	250	Take engine oil sample
21	500	Check axle oil level
22	500	Check tandem oil level
23	500	Drain and refill engine oil and replace filter ^{2,3}



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Sequence	Service Hrs	Instructions
24	500	Drain and refill engine oil (quick service) (if equipped) ^{2,3}
25	500	Check circle gear case oil level (standard circle)
26	500	Check 6WD hub oil level (if equipped)
27	500	Lubricate tandem pivots
28	500	Check brake accumulator
29	500	Replace final fuel filter
30	500	Replace primary fuel filter and water separator
31	500	Replace auxiliary fuel filter and water separator (if equipped)
32	500	Remove and clean open crankcase ventilation (OCV) tube
33	500	Take hydraulic oil sample
34	500	Take transmission oil sample
35	500	Take axle oil sample
36	500	Take tandem oil sample
37	500	Take 6WD hub oil sample (if equipped)
38	500	Take engine coolant sample
39	500	Take diesel fuel sample
40	500	Lubricate circle ring gear (premium circle)
41	500	Replace axle oil filter (Initial 500 Hrs)
42	500	Replace transmission oil filter (Initial 500 Hrs)
43	1000	Drain and refill 6WD hub oil (if equipped)
44	1000	Adjust front wheel bearings (standard axle)
45	1000	Check engine air intake hoses
46	1000	Check coolant condition



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Sequence	Service Hrs	Instructions
47	1000	Replace fuel tank breather
48	2000	Drain and refill axle oil
49	2000	Drain and refill transmission oil
50	2000	Drain and refill transmission oil (quick service) (if equipped)
51	2000	Replace rear axle breather filter and hydraulic tank breather filter
52	2000	Drain and refill circle gear case oil (standard circle)
53	2000	Check and adjust engine valve lash
54	2000	Replace axle oil filter ¹
55	2000	Replace hydraulic oil filter
56	2000	Replace transmission oil filter ¹
57	2000	Replace 6WD hydraulic oil filter (if equipped)
58	2000	Replace diesel exhaust fluid (DEF) dosing unit filter
59	2000	Replace open crankcase ventilation (OCV) filter
60	4000	Drain and refill hydraulic tank oil
61	4000	Drain and refill hydraulic tank oil (quick service) (if equipped)
62	4000	Drain and refill tandem oil
63	4000	Clean transmission pump inlet screen
64	4000	Drain and refill circle gear case oil (premium circle)
65	4000	Replace diesel exhaust fluid (DEF) tank breather
66	4000	Clean diesel exhaust fluid (DEF) tank
67	4000	Replace diesel exhaust fluid (DEF) header suction filter
68	4000	Replace diesel exhaust fluid (DEF) baffle



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Sequence	Service Hrs	Instructions
69	4500	Replace engine crankshaft damper
70	6000	Drain and refill cooling system ⁴
71	6000	Drain and refill cooling system (quick service) (if equipped) ⁴
72	AR	Service exhaust filter
73	AR	Clean and tighten battery terminals
74	AR	Clean battery compartment
75	AR	Replace cab fresh air and cab recirculation filters
76	AR	Lubricate circle pinion (standard circle)
77	AR	Check tire pressure
78	AR	Check blade circle and draft frame wear inserts (standard circle)
79	AR	Check blade lift cylinder sockets
80	AR	Lubricate saddle locking pin holes
81	AR	Blade side shift wear insert adjustment
82	AR	Inspect accessory belt and belt tensioner spring
83	AR	Replace engine air intake filter elements
84	AR	Drain fuel tank sump
85	AR	Drain primary fuel filter and water separator
86	AR	Drain auxiliary fuel filter and water separator (if equipped)
87	AR	Clean camera lens (if equipped)
88	AR	Transmission control unit (TCU) calibration
89	AR	6WD controller calibration (if equipped)
90	AR	Cross slope sensors calibration (if equipped)



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Sequence	Service Hrs	Instructions
91	AR	Hydraulic valves calibration (if equipped)
92	AR	Clean cooler cores

¹ Perform initial service once after the first 500 hours of operation.

²For Initial Service Or Rebuild, See Operator's Manual.

³ see owner's manual for oil change interval if fuel exceeds 0.05% sulfur or If using Non-Premium oil

⁴If not using JD Cool-Gard II (even for top off), change interval must be reduced. see operator's manual. If using coolant concentrate, distilled, de-ionized, or demineralized water Recommended.

