

REPLACEMENT PARTS GUIDE

870G And 870GP Motor Grader (PIN: 1DW870G__C680878—)

870G And 870GP Motor Grader (PIN: 1DW870G__D680878—)



**PRIMARY AIR FILTER ELEMENT,
STANDARD 13"**
[AT175223](#)
As Required

1



ENGINE OIL FILTER
[DZ118283](#)
500

2



HYDRAULIC TANK BREATHER
[AT101565](#)
2000

3



FUEL TANK BREATHER
[H216169](#)
1000

4



**6WD HYDRAULIC OIL FILTER
(IF EQUIPPED)**
[AT367840](#)
2000

5



HYDRAULIC OIL FILTER
[AT367840](#)
2000

6



TRANSMISSION OIL FILTER
[AT335492](#)
2000

7



AXLE OIL FILTER
[AT335492](#)
2000

8



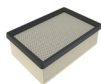
**AUXILIARY FUEL FILTER ELEMENT
(IF EQUIPPED)**
[AT365869](#)
500

9



REAR AXLE BREATHER
[AT101565](#)
2000

10



CAB FRESH AIR FILTER
[AT191102](#)
As Required

11



**SECONDARY AIR FILTER ELEMENT,
STANDARD 13"**
[AT175224](#)
As Required

12



PRIMARY AND FINAL FUEL FILTER KIT
[RE525523](#)
500

13



CRANKSHAFT DAMPER
[RE57604](#)
4500

14



CRANKSHAFT DAMPER
[RE522932](#)
4500

15



ENGINE ROCKER ARM COVER GASKET
[R527884](#)
2000

16



IN-LINE FUEL STRAINER (S.N. —685716)
[AT423052](#)
As Required

17



CAB RECIRCULATION AIR FILTER
[AT307501](#)
As Required

18



JOHN DEERE
Genuine Parts and Service

CLICK PART NUMBER TO BUY

*See operator's manual for additional details.

PARTS AND CAPACITIES INFORMATION

870G And 870GP Motor Grader (PIN: 1DW870G__C680878—)

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Part Description	Qty or capacity	Change Interval In Hours
John Deere Plus-50™ II Engine Oil ²	28.0 L (7.4 gal)	500
John Deere Hydrau™ Hydraulic Oil ²	53.0 L (14.0 gal)	4000
John Deere Hy-Gard™ 6WD Hub Oil ² (if equipped) (each)	7.2 L (1.9 gal)	1000
John Deere Hy-Gard™ Transmission, Axle, and Tandem Oil ²	66.2 L (17.5 gal)	2000
John Deere Hy-Gard™ Circle Gear Case Oil ² (standard circle)	5.7 L (1.5 gal)	2000
John Deere Hy-Gard™ Circle Gear Case Oil ² (premium circle)	6.4 L (1.7 gal)	4000
John Deere Cool-Gard™ II Pre-Mix	55.0 L (14.5 gal)	6000
Fluid Analysis Test Kits ³		
Diesel Engine Oil	1	250
Transmission Oil	1	500
Axle Oil	1	500
Tandem Oil	2	500
Hydraulic Oil	1	500
6WD Hub Oil (if equipped)	2	500
Diesel Fuel	1	500
Engine Coolant	1	500

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

2 See operator's manual for recommended oil type and oil viscosities based on operating temperatures.

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

Plus-50 is a trademark of Deere & Company

Hydrau is a trademark of Deere & Company

Hy-Gard is a trademark of Deere & Company

Cool-Gard is a trademark of Deere & Company



CLICK PART NUMBER TO BUY

*See operator's manual for additional details.

Service Intervals

As Required	
<input type="checkbox"/> Clean cooler cores	<input type="checkbox"/> Replace engine air intake filter elements
<input type="checkbox"/> Clean and tighten battery terminals	<input type="checkbox"/> Replace starting fluid cylinder (if equipped)
<input type="checkbox"/> Clean battery compartment	<input type="checkbox"/> Replace in-line fuel strainer (S.N. —685716)
<input type="checkbox"/> Replace cab fresh air and cab recirculation filters	<input type="checkbox"/> Drain fuel tank sump
<input type="checkbox"/> Lubricate circle pinion (standard circle)	<input type="checkbox"/> Drain primary fuel filter and water separator
<input type="checkbox"/> Check tire pressure	<input type="checkbox"/> Drain auxiliary fuel filter and water separator (if equipped)
<input type="checkbox"/> Check blade circle and draft frame wear inserts (standard circle)	<input type="checkbox"/> Clean camera lens (if equipped)
<input type="checkbox"/> Check blade lift cylinder sockets	<input type="checkbox"/> Transmission control unit (TCU) calibration
<input type="checkbox"/> Lubricate saddle locking pin holes	<input type="checkbox"/> 6WD controller calibration (if equipped)
<input type="checkbox"/> Blade side shift wear insert adjustment	<input type="checkbox"/> Cross slope sensors calibration (if equipped)
<input type="checkbox"/> Inspect accessory belt and belt tensioner spring	<input type="checkbox"/> Hydraulic valves calibration (if equipped)
Every 10 Hours or Daily	
<input type="checkbox"/> Check hydraulic tank oil level	<input type="checkbox"/> Check engine oil level
<input type="checkbox"/> Check transmission oil level	<input type="checkbox"/> Check engine coolant surge tank level
Every 50 Hours	
<input type="checkbox"/> Lubricate frame hinge pivots	<input type="checkbox"/> Lubricate front axle lean bar pivot
<input type="checkbox"/> Lubricate lift cylinders	<input type="checkbox"/> Lubricate front axle steering pin
<input type="checkbox"/> Lubricate draft frame ball	<input type="checkbox"/> Lubricate tie rod ends
<input type="checkbox"/> Lubricate front mounted scarifier or dozer blade (if equipped)	<input type="checkbox"/> Lubricate steering cylinders
<input type="checkbox"/> Lubricate Balderson™ style front lift group (if equipped)	<input type="checkbox"/> Lubricate midmount scarifier (if equipped)
<input type="checkbox"/> Lubricate front axle oscillation pin	<input type="checkbox"/> Lubricate circle side shift cylinder
<input type="checkbox"/> Lubricate front axle lean pivot casting pins	<input type="checkbox"/> Lubricate saddle locking pin
Every 250 Hours	
<input type="checkbox"/> Check hybrid battery electrolyte level (if equipped)	<input type="checkbox"/> Take engine oil sample
Initial Service—500 Hours ¹	
<input type="checkbox"/> Replace axle oil filter	<input type="checkbox"/> Replace transmission oil filter
Every 500 Hours	
<input type="checkbox"/> Check tandem oil level	<input type="checkbox"/> Replace primary fuel filter and water separator
<input type="checkbox"/> Check axle oil level	<input type="checkbox"/> Replace auxiliary fuel filter and water separator (if equipped)
<input type="checkbox"/> Drain and refill engine oil and replace filter	<input type="checkbox"/> Take hydraulic oil sample
<input type="checkbox"/> Drain and refill engine oil (quick service) (if equipped)	<input type="checkbox"/> Take transmission oil sample
<input type="checkbox"/> Lubricate tandem pivots	<input type="checkbox"/> Take axle oil sample
<input type="checkbox"/> Check circle gear case oil level (standard circle)	<input type="checkbox"/> Take tandem oil sample
<input type="checkbox"/> Check brake accumulator	<input type="checkbox"/> Take 6WD hub oil sample (if equipped)

Service Intervals

<input type="checkbox"/> Replace final fuel filter	<input type="checkbox"/> Take engine coolant sample
<input type="checkbox"/> Check 6WD hub oil level (if equipped)	<input type="checkbox"/> Take diesel fuel sample
<input type="checkbox"/> Lubricate circle ring gear (premium circle)	
Every 1000 Hours	
<input type="checkbox"/> Drain and refill 6WD hub oil (if equipped)	<input type="checkbox"/> Check coolant condition
<input type="checkbox"/> Adjust front wheel bearings (standard axle only)	<input type="checkbox"/> Replace fuel tank breather
<input type="checkbox"/> Check engine air intake hoses	
Every 2000 Hours	
<input type="checkbox"/> Drain and refill axle oil	<input type="checkbox"/> Replace axle oil filter
<input type="checkbox"/> Drain and refill circle gear case oil (standard circle)	<input type="checkbox"/> Replace hydraulic oil filter
<input type="checkbox"/> Clean engine crankcase ventilation tube	<input type="checkbox"/> Replace transmission oil filter
<input type="checkbox"/> Drain and refill transmission oil	<input type="checkbox"/> Replace 6WD hydraulic oil filter (if equipped)
<input type="checkbox"/> Drain and refill transmission oil (quick service) (if equipped)	<input type="checkbox"/> Check and adjust engine valve lash
<input type="checkbox"/> Replace rear axle breather filter and hydraulic tank breather filter	
Every 4000 Hours	
<input type="checkbox"/> Drain and refill hydraulic tank oil	<input type="checkbox"/> Drain and refill tandem oil
<input type="checkbox"/> Drain and refill hydraulic tank oil (quick service) (if equipped)	<input type="checkbox"/> Clean transmission pump inlet screen
<input type="checkbox"/> Drain and refill circle gear case oil (premium circle)	
Every 4500 Hours	
<input type="checkbox"/> Replace engine crankshaft damper	
Every 6000 Hours	
<input type="checkbox"/> Drain and refill cooling system	<input type="checkbox"/> Drain and refill cooling system (quick service) (if equipped)
¹ Perform initial service once after the first 500 hours of operation.	