

# REPLACEMENT PARTS GUIDE

## 670G and 670GP Motor Grader (PIN: 1DW670GX\_\_F678818 - F680877)



**FOR 6068DW201 AND 6068DW301 ENGINES**

**SECONDARY FILTER ELEMENT**  
[AT178517](#)  
 Interval (hrs) - As Required .

**ENGINE ROCKER ARM COVER GASKET**  
[R524497](#)  
 Interval (hrs) - 2000 .

**CRANKSHAFT DAMPER**  
[RE508578](#)  
 Interval (hrs) - 4500 .

**PRIMARY AIR FILTER ELEMENT**  
[AT178516](#)  
 Interval (hrs) - As Required .

**FINAL FUEL FILTER ELEMENT**  
[RE522878](#)  
 Interval (hrs) - 500 .

**PRIMARY FUEL FILTER ELEMENT**  
[RE541922](#)  
 Interval (hrs) - 500 .

**ENGINE OIL FILTER**  
[RE504836](#)  
 Interval (hrs) - 500 .



**FOR 6090HDW37 AND 6090HDW38 ENGINES**

**ENGINE OIL FILTER**  
[DZ118283](#)  
 Interval (hrs) - 500 .

**PRIMARY FUEL FILTER ELEMENT**  
[RE539465](#)  
 Interval (hrs) - 500 .

**FINAL FUEL FILTER ELEMENT**  
[DZ112918](#)  
 Interval (hrs) - 500 .

**PRIMARY AIR FILTER ELEMENT**  
[AT175223](#)  
 Interval (hrs) - As Required .

**SECONDARY AIR FILTER ELEMENT**  
[AT175224](#)  
 Interval (hrs) - As Required .

**ENGINE ROCKER ARM COVER GASKET**  
[R527884](#)  
 Interval (hrs) - 2000 .

**CRANKSHAFT DAMPER**  
[RE57604](#)  
 Interval (hrs) - 4500 .

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### DIESEL EXHAUST FLUID (DEF) DOSING UNIT FILTERS

[DZ114640](#)

Interval (hrs) - 4000.



### HYDRAULIC TANK BREATHER

[AT101565](#)

Interval (hrs) - 2000.



### IN-LINE FUEL STRAINER

[AT423052](#)

Interval (hrs) - As Required .



### FUEL TANK BREATHER

[H216169](#)

Interval (hrs) - 1000.



### HYDRAULIC OIL FILTER

[AT367840](#)

Interval (hrs) - 2000.



### TRANSMISSION OIL FILTER

[AT335492](#)

Interval (hrs) - 2000.



### FAST FILL FUEL BREATHER IF EQUIPPED

[T225008](#)

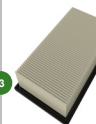
Interval (hrs) -1000.



### CAB FRESH AIR FILTER

[AT191102](#)

Interval (hrs) - As Required .



### CAB RECIRCULATION AIR FILTER

[AT307501](#)

Interval (hrs) - As Required .



### REAR AXLE BREATHER

[AT101565](#)

Interval (hrs) - 2000.



### AUXILIARY FUEL FILTER ELEMENT—IF EQUIPPED

[AT365869](#)

Interval (hrs) - 500.










### AXLE OIL FILTER

[AT335492](#)

Interval (hrs) - 2000.

# PARTS AND CAPACITIES INFORMATION

670G and 670GP Motor Grader (PIN: 1DW670GX\_ \_F678818 - F680877)

Part Description	Part Number	Qty or capacity	Change Interval In Hours
John Deere Plus-50™ II Engine Oil <sup>2</sup>			
6068DW201 and 6068DW301 Engines 	<a href="#">TY26674</a>	26.0 L (6.9 gal)	500
6090HDW37 and 6090HDW38 Engines 	<a href="#">TY26674</a>	27.0 L (7.1 gal)	500
Hydrau™ Hydraulic System Oil <sup>2</sup> 	<a href="#">TY27316</a>	53.0 L (14.0 gal)	4000
Hy-Gard™ 6WD Hub Oil—If Equipped (each) <sup>2</sup> 	<a href="#">TY6354</a>	7.2 L (2.0 gal)	1000
John Deere Hy-Gard™ Transmission, Axle, Circle Gear Case, and Tandem Oil <sup>2</sup> 	<a href="#">TY6354</a>	72.1 L (19.0 gal)	2000
John Deere Cool-Gard™ II Pre-Mix			
6068DW201 and 6068DW301 Engines 	<a href="#">TY26575</a>	44.0 L (11.6 gal)	6000
6090HDW37 and 6090HDW38 Engines 	<a href="#">TY26575</a>	48.5 L (12.8 gal)	6000

# PARTS AND CAPACITIES INFORMATION

670G and 670GP Motor Grader (PIN: 1DW670GX\_\_F678818 - F680877)

Part Description	Part Number	Qty or capacity	Change Interval In Hours
<b>Fluid Analysis Test Kits<sup>3</sup></b>			
Diesel Engine Oil	<a href="#">AT346594</a>	1	250
Transmission Oil	<a href="#">AT346594</a>	1	500
Axle Oil	<a href="#">AT346594</a>	1	500
Tandem Oil	<a href="#">AT346594</a>	2	500
Hydraulic Oil	<a href="#">AT346594</a>	1	500
6WD Hub Oil (if equipped)	<a href="#">AT346594</a>	2	500
Diesel Fuel	<a href="#">TY27329</a>	1	500
Engine Coolant	<a href="#">TY27787</a>	1	500

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

<sup>3</sup>Based on fluid analysis results, intervals may need to be adjusted for operating conditions. Consult and 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*



## Service Intervals

As Required	
<input type="checkbox"/> Clean cooler cores	<input type="checkbox"/> Drain fuel tank sump
<input type="checkbox"/> Clean and tighten battery terminals	<input type="checkbox"/> Drain primary fuel filter and water separator
<input type="checkbox"/> Clean or replace cab fresh air and cab recirculation filters	<input type="checkbox"/> Drain auxiliary fuel filter and water separator—if equipped
<input type="checkbox"/> Lubricate circle pinion	<input type="checkbox"/> Replace in-line fuel strainer
<input type="checkbox"/> Check tire pressure	<input type="checkbox"/> Check rear camera—if equipped
<input type="checkbox"/> Check blade circle and draft frame wear inserts	<input type="checkbox"/> Transmission control unit (TCU) calibration
<input type="checkbox"/> Check blade lift cylinder sockets	<input type="checkbox"/> 6WD controller calibration—if equipped
<input type="checkbox"/> Lubricate saddle locking pin holes	<input type="checkbox"/> Cross slope sensors calibration—if equipped
<input type="checkbox"/> Blade side shift wear insert adjustment	<input type="checkbox"/> Hydraulic valves calibration—if equipped
<input type="checkbox"/> Inspect accessory belt and belt tensioner spring	<input type="checkbox"/> Replace starting fluid cylinder—if equipped
<input type="checkbox"/> Replace engine air intake filter elements	
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
Initial Service—250 Hours <sup>1</sup>	
<input type="checkbox"/> Drain and refill engine break-in oil and replace filter	<input type="checkbox"/> Replace axle oil filter
<input type="checkbox"/> Drain and refill engine break-in oil (quick service)—if equipped	<input type="checkbox"/> Replace transmission oil filter
Every 250 Hours	
<input type="checkbox"/> Check battery electrolyte level	<input type="checkbox"/> Take engine oil sample
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"/> Check receiver-dryer moisture indicator—if equipped	<input type="checkbox"/> Take axle oil sample
<input type="checkbox"/> Lubricate tandem pivots	<input type="checkbox"/> Take tandem oil sample

## Service Intervals

<input type="checkbox"/> Check circle gear case oil level	<input type="checkbox"/> Take 6WD hub oil sample—if equipped
<input type="checkbox"/> Check brake accumulator	<input type="checkbox"/> Take engine coolant sample
<input type="checkbox"/> Replace final fuel filter	<input type="checkbox"/> Take diesel fuel sample
<input type="checkbox"/> Check 6WD hub oil level—if equipped	
<b>Every 1000 Hours</b>	
<input type="checkbox"/> Drain and refill 6WD hub oil—if equipped	<input type="checkbox"/> Check engine air intake hoses
<input type="checkbox"/> Adjust front wheel bearings—standard axle only	<input type="checkbox"/> Check coolant
<input type="checkbox"/> Replace fast fill fuel breather filter—if equipped	<input type="checkbox"/> Replace fuel tank breather
<b>Every 2000 Hours</b>	
<input type="checkbox"/> Drain and refill axle oil	<input type="checkbox"/> Clean engine crankcase ventilation tube
<input type="checkbox"/> Drain and refill transmission oil and clean transmission pump inlet screen	<input type="checkbox"/> Replace axle oil filter
<input type="checkbox"/> Drain and refill transmission oil (quick service)—if equipped	<input type="checkbox"/> Replace hydraulic oil filter
<input type="checkbox"/> Replace rear axle breather filter and hydraulic tank breather filter	<input type="checkbox"/> Replace transmission oil filter
<input type="checkbox"/> Drain and refill circle gear case oil	<input type="checkbox"/> Check and adjust engine valve lash (clearance)
<b>Every 4000 Hours</b>	
<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	
<b>Every 4500 Hours</b>	
<input type="checkbox"/> Replace engine crankshaft damper	
<b>Every 6000 Hours</b>	
<input type="checkbox"/> Drain, flush, and refill engine cooling system	<input type="checkbox"/> Drain, flush, and refill engine cooling system (quick service)—if equipped