

FILTER OVERVIEW WITH SERVICE INTERVALS AND CAPACITIES

(765001-) S-Series Combines (FT4) S650, S660, S670, S680, S690

**ENGINE
PRIMARY AIR FILTER**
[HXE11090](#)

SECONDARY AIR FILTER
[HXE11091](#)

Check every 400 hours. Service Primary Air Filter when engine air filter restricted indicator is shown on display. Check safety filter for plugging.

**ENGINE
DIESEL EXHAUST FLUID (DEF)
TANK VENT FILTER**
[H216169](#)
Clean every 250 hours and replace every 400 hours.

**ENGINE
FUEL TANK VENT
FILTER**
[H216169](#)
Clean every 250 hours and replace every 400 hours.

**ENGINE
PRIMARY FUEL FILTER**
[RE539465](#)
SECONDARY FUEL FILTER
[RE533910](#)
Replace every 400 hours and when performance decline is noticed or Diagnostic Trouble Code (DTC) is generated.

**ENGINE
OIL FILTER**
(S650, S660, S670)
[RE509672](#)
(S680, S690)
[RE572785](#)
Replace every 250 hours. If using Plus-50™II engine oil and a John Deere™ filter, service interval can be extended to 400 hours. Break-In™ Plus is factory fill oil and may be changed at a minimum 100 hours and maximum 400 hours. (Click here for [capacity](#))

**CAB
FRESH AIR FILTER**
[RE284091](#)
Clean or replace every 50 hours and as required.

**CAB
RECIRCULATION AIR FILTER**
[L155288](#)
Clean or replace every 200 hours and as required.

**ENGINE
DIESEL EXHAUST FLUID (DEF)
DOSING FILTER**
[RE554498](#)
Replace every 4500 hours or every three years of operation, whichever occurs first.

**ENGINE
FUEL PRECLEANER FILTER**
[R502778](#)
Clean every 50 hours and every 400 hours or when Diagnostic Trouble Code (DTC) is generated.

HEAVY-DUTY FUEL PRE-CLEANER FILTER (OPTIONAL)
[N378886](#)
Back flush when bowl is half full or when Diagnostic Trouble Code (DTC) is generated. Clean after every fifth back flushing. Replace when light is no longer visible when filter is held up to light.

**HYDRAULIC
HYDRAULIC/HYDROSTATIC
FILTER**
[AH128449](#)
Replace every 400 hours.

**ENGINE
DIESEL PARTICULATE FILTER (DPF)**
(S650, S660, S670)
[RE542183](#)
(S680, S690)
[RE541836](#)
Have a John Deere™ dealer service.

**ENGINE
DEBRIS MANAGEMENT AIR FILTERS**
PRIMARY
[AXE42066](#)
Clean or change as required.

SECONDARY
[AXE42065](#)
Never clean the safety filter. Change if dirty. Change Secondary filter only with Primary filter. Change as required with Primary filter.

**HYDRAULIC/HYDROSTATIC/
TRANSMISSION**

MAIN ENGINE GEARCASE FILTER
[AH128449](#)

HYDROSTATIC CHARGE FILTER
[AH128449](#)

HYDROSTATIC FILTER
(S650 Mechanical Shift Transmission)
[AH128449](#)

HYDRAULIC RETURN FILTER
(S650, S660, S670 Electric Shift Transmission & S660, S670 Pro Drive Transmission)

[AT129775](#)

HYDRAULIC RETURN FILTER
(Reservoir)(S680, S690 Pro Drive Transmission)

[AXE12964](#)

HYDROSTATIC DRIVE PUMP
(S660, S670, S680, S690 Pro Drive Transmission)

[AN207368](#)

See Operator Manual for recommended service intervals.



JOHN DEERE

Genuine Parts and Service

CAPACITIES

(765001-) S-Series Combines (FT4) S650, S660, S670, S680, S690

CAPACITIES (Approximate):

Fuel Tank:

S650, S660, S670	950 L (250 gal)
S680, S690	1,250 L (330 gal)

Cooling System with Heater:

Cool-Gard™ II

S650, S660, S670	53 L (14 gal)
S680, S690	85 L (22.5 gal)

Engine Crankcase with Filter:

Plus-50™ II

S650, S660, S670	27.5 L (7.3 gal)
S680, S690	43 L (11.4 gal)

Transmission (Mechanical Shift and Push Button Shift Machines):

GL-5

S650, S660, S670	9.6 L (10.1 qt)
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Engine Gearcase with Transfer (Mechanical Shift and Push Button Shift Machines):

Hy-Gard™

S650, S660, S670	21.3 L (5.6 gal)
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Engine Gearcase with Transfer (ProDrive™ Machines):

Hy-Gard™

S670, S680, S690	51 L (13.5 gal)
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Final Drives:

GL-5

All Models	8 L (8.5 qt)
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Countershaft Drive Gearcase:

GL-5

All Models	1.9 L (2 qt)
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Heavy-Duty Feeder House Reverser Gearcase without Cooler:

ISO VG 460 Fully Synthetic

S650, S660, S670	2.3 L (2.4 qt)
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Heavy-Duty Feeder House Reverser Gearcase with Cooler:

ISO VG 460 Fully Synthetic

S650, S660	3.5 L (3.7 qt)
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Extra Heavy-Duty Feeder House Reverser Gearcase without Cooler:

ISO VG 460 Fully Synthetic

S680, S690	3.6 L (3.8 qt)
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Extra Heavy-Duty Feeder House Reverser Gearcase with Cooler:

ISO VG 460 Fully Synthetic

S650, S660, S670	4.9 L (5.2 qt)
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Multi-Speed Feeder House Reverser Gearcase with Cooler (Optional):

ISO VG 460 Fully Synthetic

S670, S680, S690	5.2 L (5.5 qt)
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Loading Auger Gearcase:

GL-5

All Models	3.8 L (4 qt)
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Two Speed Separator Drive Gearcase:

GL-5

All Models	4.7 L (5 qt)
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Diesel Exhaust Fluid (DEF) Tank:

John Deere™ Diesel Exhaust Fluid

All Models	52.2 L (13.8 gal)
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Premium Overshot Beater Gearcase (if equipped):

GL-5

S670, S680, S690	0.2 L (0.2 qt)
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Hydraulic/Hydrostatic Reservoir:

Hy-Gard™

S650, S660, S670	31 L (8.2 gal)
S680, S690	47 L (12.4 gal)

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