

# FILTER OVERVIEW WITH SERVICE INTERVALS AND CAPACITIES

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

### ENGINE ENGINE AIR PRECLEANER PRIMARY FILTER [HXE11090](#) ENGINE AIR PRECLEANER SECONDARY 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.



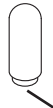
### ENGINE DIESEL EXHAUST FLUID (DEF) TANK VENT FILTER [H216169](#)

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](#) [RE525523](#) FUEL FILTER TIER 2 (S650, S660, S670) [RE532952](#) PRIMARY FUEL FILTER TIER 2 (S680, S690)

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. (Click here for [capacity](#))



### HYDRAULIC/HYDROSTATIC/ TRANSMISSION

#### MAIN ENGINE GEARCASE FILTER [AH128449](#)

Replace after First 100 hours and then after Every 400 hours.

#### HYDRAULIC RETURN FILTER (S650, S660, S670 Electric Shift Transmission & S660, S670 ProDrive™ Transmission) [AT129775](#)

Replace every 400 hours.

#### HYDRAULIC RETURN FILTER (Reservoir)(S680, S690 ProDrive™ Transmission) [AXE12964](#)

Replace every 1000 hours and when performance decline is noticed or Diagnostic Trouble Code (DTC) is generated.

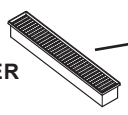
#### HYDROSTATIC DRIVE PUMP (S660, S670, S680, S690 ProDrive™ Transmission) [AN207368](#)

Replace every 400 hours.



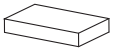
### CAB FRESH AIR FILTER [RE284091](#)

Clean or replace every 50 hours and as required



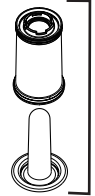
### CAB RECIRCULATION AIR FILTER [L214634](#)

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.

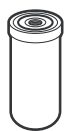


### ENGINE FUEL PRECLEANER FILTER [R502778](#) HEAVY-DUTY FUEL PRECLEANER FILTER (OPTIONAL) [N378886](#)

Clean Every 50 hours and Every 400 hours or When Diagnostic Trouble Code (DTC) is generated.

### HYDRAULIC HYDROSTATIC FILTER [AH128449](#)

Replace every 400 hours.



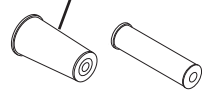
### ENGINE DEBRIS MANAGEMENT AIR FILTERS

#### PRIMARY [AXE42066](#)

Check every 50 hours. Service Primary Air Filter when engine debris management air filter restricted indicator is shown on display.

#### SECONDARY [AXE42065](#)

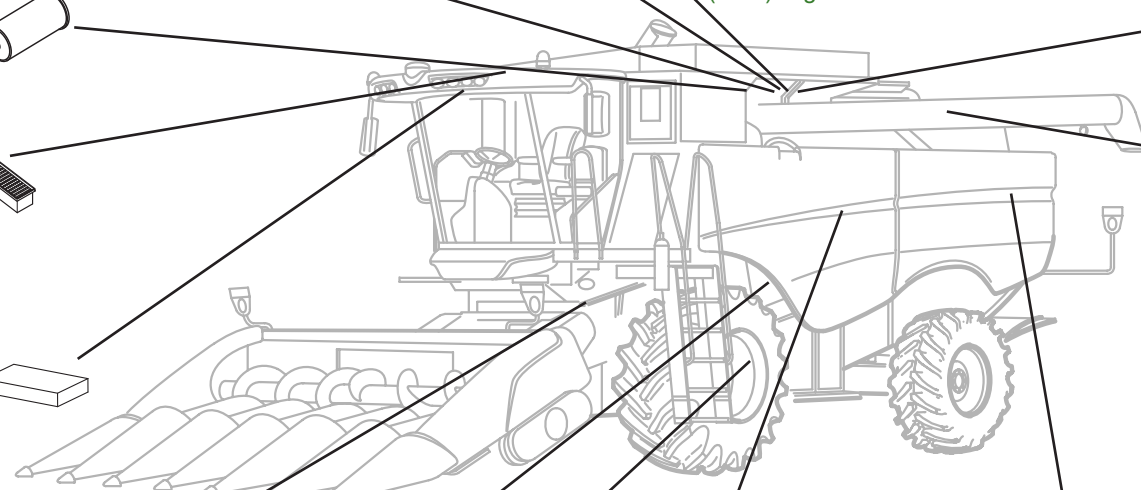
Never clean the safety element. Replace if dirty. Service or Change Secondary filters as required with Primary Filter.



### ENGINE DIESEL PARTICULATE FILTER (DPF)

(S650, S660, S670) [RE542183](#)  
(S680, S690) [RE541836](#) (IT4)  
(S660, S670) (765000 - 785000) [RE561840](#) (FT4)  
(S650) (765000 - 785000) [RE561836](#) (FT4)  
(S650, S660, S670) S.N (785001- 795000) [DZ100174](#) (FT4)  
(S680, S690) S.N (765250 - 785000) [RE561844](#) (FT4)  
(S680, S690) S.N (785001 - ) [DZ100175](#) (FT4)

Check Every 4500 hours or Diagnostic Trouble Code (DTC) is generated.



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# CAPACITIES

## (765001- ) S-Series Combines 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

S660, S670 .....	53 L (14 gal)
S680, S690 (Tier 2) .....	61.2 L (16.16 gal)
S680, S690 (FT4) .....	85 L (22.5 gal)

#### Engine Crankcase with Filter:

##### Plus-50™ II

S650, S660, S670 .....	27.5 L (7.30 gal)
S680, S690 (Tier 2) .....	39 L (10.30 gal)
S680, S690 (FT4) .....	43 L (11.35 gal)

#### Transmission (Mechanical Shift and Push Button Shift Machines):

##### GL-5

S650, S660, S670 .....	9.6 L (2.53 gal)
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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 (2.11 gal)
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#### Countershaft Drive Gearcase:

##### GL-5

All Models .....	1.9 L (0.50 gal)
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#### Heavy-Duty Feeder House Reverser Gearcase without Cooler:

##### ISO VG 460 Fully Synthetic

S650, S660, S670 .....	2.3 L (0.60 gal)
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#### Heavy-Duty Feeder House Reverser Gearcase with Cooler:

##### ISO VG 460 Fully Synthetic

S650, S660 .....	3.5 L (0.92 gal)
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#### Extra Heavy-Duty Feeder House Reverser Gearcase without Cooler:

##### ISO VG 460 Fully Synthetic

S680, S690 .....	3.6 L (0.95 gal)
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#### Extra Heavy-Duty Feeder House Reverser Gearcase with Cooler:

##### ISO VG 460 Fully Synthetic

S650, S660, S670 .....	4.9 L (1.29 gal)
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#### Multi-Speed Feeder House Reverser Gearcase with Cooler (Optional):

##### ISO VG 460 Fully Synthetic

S670, S680, S690 .....	5.2 L (1.37 gal)
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#### Loading Auger Gearcase:

##### GL-5

All Models .....	3.8 L (1.00 gal)
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#### Two Speed Separator Drive Gearcase:

##### GL-5

All Models .....	4.7 L (1.24 gal)
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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 (0.05 gal)
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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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