

SERVICE MANUAL

FR450 / FR500 / FR600 / FR700 / FR850

Forage Harvester

Part number 47812460

English

December 2014



Link Product / Engine

Product	Market Product	Engine
FR850 FR850 TIER 2 [5803 -]	Europe	FVAE2884X*B200
FR450 FR450 TIER 4A [5803 -]	Europe	F2CFE613A*A
FR500 FR500 TIER 4A [5803 -]	Europe	F3BFE613E*A
FR600 FR600 TIER 3 [5803 -]	Europe	F3CE0684E*E920

Contents

INTRODUCTION

Engine	10
[10.001] Engine and crankcase	10.1
[10.218] Fuel injection system.....	10.2
[10.400] Engine cooling system	10.3
[10.414] Fan and drive	10.4
[10.418] Rotary screen	10.5
Main gearbox and drive	14
[14.100] Main gearbox and drive	14.1
Transmission	21
[21.114] Mechanical transmission	21.1
[21.120] Gearbox.....	21.2
[21.130] Mechanical transmission external controls.....	21.3
[21.100] Mechanical transmission lubrication system	21.4
[21.145] Gearbox internal components.....	21.5
[21.182] Differential.....	21.6
Four-Wheel Drive (4WD) system	23
[23.101] Mechanical control	23.1
[23.304] Four-Wheel Drive (4WD) gearbox	23.2
Front axle system	25
[25.100] Powered front axle	25.1
[25.102] Front bevel gear set and differential	25.2
[25.310] Final drives	25.3
Rear axle system	27
[27.450] Rear-powered steerable axle	27.1
[27.550] Non-powered rear axle.....	27.2

Hydrostatic drive	29
[29.100] Transmission and steering hydrostatic control	29.1
[29.218] Pump and motor components.....	29.2
[29.202] Hydrostatic transmission	29.3
Brakes and controls	33
[33.202] Hydraulic service brakes	33.1
[33.110] Parking brake or parking lock	33.2
Hydraulic systems	35
[35.000] Hydraulic systems.....	35.1
[35.106] Variable displacement pump	35.2
[35.204] Remote control valves	35.3
[35.300] Reservoir, cooler, and filters.....	35.4
[35.359] Main control valve	35.5
[35.350] Safety and main relief valves	35.6
[35.600] High flow hydraulics	35.7
[35.410] Header or attachment height system	35.8
[35.602] Header or attachment leveling system	35.9
[35.514] Upper feed roll gearbox system.....	35.10
[35.516] Cutterhead drive system	35.11
[35.530] Spout rotation circuit	35.12
[35.532] Spout raising system	35.13
[35.534] Spout deflector system.....	35.14
Steering	41
[41.101] Steering control	41.1
[41.200] Hydraulic control components.....	41.2
[41.206] Pump	41.3
[41.216] Cylinders	41.4
[41.432] Autoguidance steering	41.5

Wheels	44
[44.511] Front wheels	44.1
[44.520] Rear wheels	44.2
Cab climate control	50
[50.100] Heating	50.1
[50.200] Air conditioning	50.2
Electrical systems	55
[55.000] Electrical system	55.1
[55.100] Harnesses and connectors	55.2
[55.015] Engine control system	55.3
[55.010] Fuel injection system	55.4
[55.014] Engine intake and exhaust system	55.5
[55.988] Selective Catalytic Reduction (SCR) electrical system	55.6
[55.012] Engine cooling system	55.7
[55.013] Engine oil system	55.8
[55.512] Cab controls	55.9
[55.640] Electronic modules	55.10
[55.610] Ground speed control	55.11
[55.019] Hydrostatic drive control system	55.12
[55.051] Cab Heating, Ventilation, and Air-Conditioning (HVAC) controls	55.13
[55.050] Heating, Ventilation, and Air-Conditioning (HVAC) control system	55.14
[55.421] Feeding control system	55.15
[55.800] Metal detector	55.16
[55.820] Chopping and cutting control systems	55.17
[55.830] Rotary screen drive and cleaning	55.18
[55.680] Autopilot/Autoguidance	55.19
[55.450] Ejecting control system	55.20
[55.408] Warning indicators, alarms, and instruments	55.21

Attachments/Headers	58
[58.900] Belt feeding	58.1
Product feeding	60
[60.103] Lower feed rolls	60.1
[60.107] Upper feed rolls	60.2
[60.155] Metal detector	60.3
Chopping	64
[64.100] Cutterhead	64.1
[64.106] Drum	64.2
[64.130] Drum gearbox	64.3
[64.140] Sharpening system.....	64.4
[64.150] Shearbar	64.5
[64.160] Crop processor.....	64.6
[64.170] Transition channel/concave and lever	64.7
Ejection	70
[70.120] Blower.....	70.1
[70.140] Spout.....	70.2
Platform, cab, bodywork, and decals	90
[90.105] Machine shields and guards	90.1
[90.150] Cab.....	90.2

Thank you so much for reading.
Please click the “Buy Now!”
button below to download the
complete manual.



After you pay.

You can download the most
perfect and complete manual in
the world immediately.

Our support email:

ebooklibonline@outlook.com