

# SERVICE MANUAL

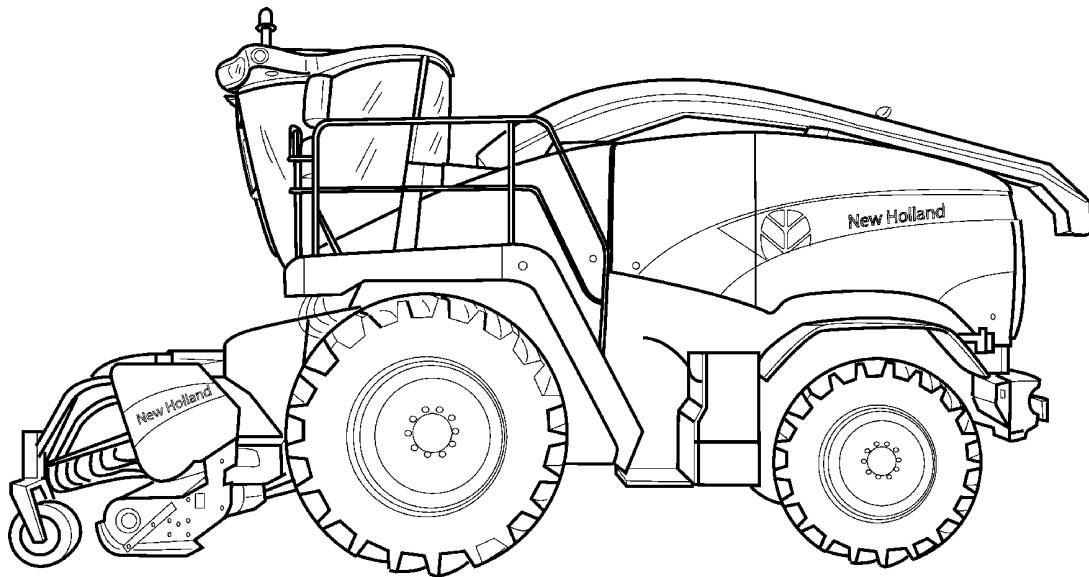
**FR9040 / FR9050 / FR9060**  
**FR9080 / FR9090**  
Forage Harvester

Part number 87725913D

English  
January 2013



## SERVICE MANUAL



**FR9040**  
**FR9050**  
**FR9060**  
**FR9080**  
**FR9090**

## Link Product / Engine

<b>Product</b>	<b>Market Product</b>	<b>Engine</b>
FR9040	North America	F2CE9684U*E151
FR9040	Latin America	F2CE9684U*E151
FR9040	International Region	F2CE9684U*E151
FR9040	Europe	F2CE9684U*E151
FR9050	North America	F3BE0684J*E811
FR9050	Europe	F3BE0684J*E811
FR9050	International Region	F3BE0684J*E811
FR9050	Latin America	F3BE0684J*E811
FR9060	International Region	F3CE0684A*E814
FR9060	Europe	F3CE0684A*E814
FR9060	Latin America	F3CE0684A*E814
FR9060	North America	F3CE0684A*E814
FR9090	North America	FVAE2884X*B200
FR9090	Europe	FVAE2884X*B200
FR9090	International Region	FVAE2884X*B200

# Contents

---

## INTRODUCTION

<b>Engine</b> .....	<b>10</b>
[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
<b>Main gearbox and drive</b> .....	<b>14</b>
[14.100] Main gearbox and drive .....	14.1
<b>Transmission</b> .....	<b>21</b>
[21.114] Mechanical transmission .....	21.1
[21.130] Mechanical transmission external controls.....	21.2
[21.100] Mechanical transmission lubrication system .....	21.3
[21.145] Gearbox internal components.....	21.4
[21.182] Differential.....	21.5
<b>Four-Wheel Drive (4WD) system</b> .....	<b>23</b>
[23.101] Mechanical control .....	23.1
[23.304] Four-Wheel Drive (4WD) gearbox .....	23.2
<b>Front axle system</b> .....	<b>25</b>
[25.100] Powered front axle .....	25.1
[25.102] Front bevel gear set and differential .....	25.2
[25.310] Final drives .....	25.3
<b>Rear axle system</b> .....	<b>27</b>
[27.450] Rear-powered steerable axle .....	27.1
[27.550] Non-powered rear axle.....	27.2
<b>Hydrostatic drive</b> .....	<b>29</b>

[29.100] Transmission and steering hydrostatic control .....	29.1
[29.218] Pump and motor components.....	29.2
[29.202] Hydrostatic transmission .....	29.3
<b>Brakes and controls .....</b>	<b>33</b>
[33.202] Hydraulic service brakes .....	33.1
<b>Hydraulic systems.....</b>	<b>35</b>
[35.000] Hydraulic systems.....	35.1
[35.106] Variable displacement pump .....	35.2
[35.359] Main control valve .....	35.3
[35.350] Safety and main relief valves .....	35.4
[35.600] High flow hydraulics .....	35.5
[35.410] Header or attachment height system .....	35.6
[35.602] Header or attachment leveling system .....	35.7
[35.514] Upper feed roll gearbox system.....	35.8
[35.530] Spout rotation circuit .....	35.9
[35.532] Spout raising system .....	35.10
[35.534] Spout deflector system.....	35.11
<b>Steering.....</b>	<b>41</b>
[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
<b>Cab climate control .....</b>	<b>50</b>
[50.100] Heating.....	50.1
[50.200] Air conditioning .....	50.2
<b>Electrical systems .....</b>	<b>55</b>
[55.000] Electrical system .....	55.1

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$