

# SERVICE MANUAL

**T4.90 / T4.100 / T4.110 / T4.120**

**Tier 4B (final)**

Tractor

**Part number 47878245**

1<sup>st</sup> edition English  
June 2015





## **SERVICE MANUAL**

**T4.100 with cab, with Dual Command™ transmission , T4.100 with cab, with mechanical or Power shuttle transmission , T4.100 without cab, with Dual Command™ transmission , T4.100 without cab, with mechanical or Power shuttle transmission , T4.110 with cab, with Dual Command™ transmission , T4.110 with cab, with mechanical or Power shuttle transmission , T4.110 without cab, with Dual Command™ transmission , T4.110 without cab, with mechanical or Power shuttle transmission , T4.120 with cab, with Dual Command™ transmission , T4.120 with cab, with mechanical or Power shuttle transmission , T4.120 without cab, with Dual Command™ transmission , T4.120 without cab, with mechanical or Power shuttle transmission , T4.90 with cab, with Dual Command™ transmission , T4.90 with cab, with mechanical or Power shuttle transmission , T4.90 without cab, with Dual Command™ transmission , T4.90 without cab, with mechanical or Power shuttle transmission**

## Link Product / Engine

| <b>Product</b>  | <b>Market Product</b> | <b>Engine</b>  |
|---|-----------------------|----------------|
| T4.100 without cab, with mechanical or Power shuttle transmission | North America         | F5GFL413A*B007 |
| T4.100 with cab, with mechanical or Power shuttle transmission    | North America         | F5GFL413A*B007 |
| T4.100 without cab, with Dual Command™ transmission               | North America         | F5GFL413A*B006 |
| T4.100 with cab, with Dual Command™ transmission                  | North America         | F5GFL413A*B006 |
| T4.110 without cab, with mechanical or Power shuttle transmission | North America         | F5GFL413A*B007 |
| T4.110 with cab, with mechanical or Power shuttle transmission    | North America         | F5GFL413A*B007 |
| T4.110 without cab, with Dual Command™ transmission               | North America         | F5GFL413A*B006 |
| T4.110 with cab, with Dual Command™ transmission                  | North America         | F5GFL413A*B006 |
| T4.120 without cab, with mechanical or Power shuttle transmission | North America         | F5GFL413A*B007 |
| T4.120 with cab, with mechanical or Power shuttle transmission    | North America         | F5GFL413A*B007 |
| T4.120 without cab, with Dual Command™ transmission               | North America         | F5GFL413A*B006 |
| T4.120 with cab, with Dual Command™ transmission                  | North America         | F5GFL413A*B006 |
| T4.90 without cab, with mechanical or Power shuttle transmission  | North America         | F5GFL413A*B007 |
| T4.90 with cab, with mechanical or Power shuttle transmission     | North America         | F5GFL413A*B007 |
| T4.90 without cab, with Dual Command™ transmission                | North America         | F5GFL413A*B006 |
| T4.90 with cab, with Dual Command™ transmission                   | North America         | F5GFL413A*B006 |

# Contents

---

## INTRODUCTION

|   |           |
|---|-----------|
| <b>Engine</b> .....   | <b>10</b> |
| [10.001] Engine and crankcase .....                                 | 10.1      |
| [10.216] Fuel tanks .....   | 10.2      |
| [10.202] Air cleaners and lines .....                               | 10.3      |
| [10.254] Intake and exhaust manifolds and muffler .....             | 10.4      |
| [10.500] Selective Catalytic Reduction (SCR) exhaust treatment..... | 10.5      |
| [10.400] Engine cooling system .....                                | 10.6      |
| [10.414] Fan and drive .....  | 10.7      |
| [10.310] Aftercooler.....   | 10.8      |
| <b>Clutch</b> .....   | <b>18</b> |
| [18.100] Clutch mechanical release control .....                    | 18.1      |
| [18.104] Clutch hydraulic release control.....                      | 18.2      |
| [18.110] Clutch and components .....                                | 18.3      |
| <b>Transmission</b> .....   | <b>21</b> |
| [21.130] Mechanical transmission external controls.....             | 21.1      |
| [21.112] Power shuttle transmission.....                            | 21.2      |
| [21.110] Master clutch housing .....                                | 21.3      |
| [21.134] Power shuttle transmission external controls .....         | 21.4      |
| [21.154] Power shuttle transmission internal components .....       | 21.5      |
| [21.160] Creeper .....  | 21.6      |
| [21.162] Reverser .....   | 21.7      |
| [21.168] Hi-Lo unit.....  | 21.8      |
| [21.109] Transmission cooler and lines.....                         | 21.9      |
| [21.118] Transmission/Rear drive .....                              | 21.10     |
| [21.148] Transmission/Rear drive internal components .....          | 21.11     |
| [21.AAA] Transmission generic sub-group .....                       | 21.12     |

|   |           |
|---|-----------|
| <b>Four-Wheel Drive (4WD) system .....</b>                    | <b>23</b> |
| [23.101] Mechanical control .....                             | 23.1      |
| [23.202] Electro-hydraulic control .....                      | 23.2      |
| [23.314] Drive shaft.....                                     | 23.3      |
| <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      |
| [25.108] Final drive hub, steering knuckles, and shafts ..... | 25.3      |
| [25.400] Non-powered front axle .....                         | 25.4      |
| <b>Rear axle system.....</b>                                  | <b>27</b> |
| [27.106] Rear bevel gear set and differential.....            | 27.1      |
| [27.120] Planetary and final drives .....                     | 27.2      |
| [27.100] Powered rear axle.....                               | 27.3      |
| <b>Power Take-Off (PTO).....</b>                              | <b>31</b> |
| [31.101] Rear mechanical control .....                        | 31.1      |
| [31.104] Rear electro-hydraulic control.....                  | 31.2      |
| [31.110] One-speed rear Power Take-Off (PTO) .....            | 31.3      |
| [31.114] Two-speed rear Power Take-Off (PTO) .....            | 31.4      |
| <b>Brakes and controls .....</b>                              | <b>33</b> |
| [33.202] Hydraulic service brakes .....                       | 33.1      |
| [33.110] Parking brake or parking lock .....                  | 33.2      |
| [33.220] Trailer brake hydraulic control.....                 | 33.3      |
| <b>Hydraulic systems.....</b>                                 | <b>35</b> |
| [35.104] Fixed displacement pump.....                         | 35.1      |
| [35.204] Remote control valves .....                          | 35.2      |
| [35.114] Three-point hitch control valve .....                | 35.3      |
| [35.116] Three-point hitch cylinder .....                     | 35.4      |

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

<https://shopservicemanual.com/>

Service Manuals from 2\$