

# SERVICE MANUAL

**T8.320 / T8.350 / T8.380 / T8.410 / T8.435 /  
T8.380 SmartTrax™ / T8.410 SmartTrax™ /  
T8.435 SmartTrax™  
Continuously Variable Transmission (CVT)  
Tractor**

*PIN ZERE08100 and above*

**Part number 47748117**  
1<sup>st</sup> edition English  
November 2014



## Link Product / Engine

Product	Market Product	Engine
T8.320 696110727 CVT TIER 4B [ZERE08100 - ]	North America	F2CFE613G*B001
T8.350 696110737 CVT TIER 4B [ZERE08100 - ]	North America	F2CFE614G*B002
T8.380 696110747 CVT TIER 4B [ZERE08100 - ]	North America	F2CFE614D*B002
T8.410 696110757 CVT TIER 4B [ZERE08100 - ]	North America	F2CFE614C*B002
T8.435 696110767 CVT TIER 4B [ZERE08100 - ]	North America	F2CFE614A*B002
T8.380 SmartTrax™ 696110777 CVT TIER 4B [ZERE08100 - ]	North America	F2CFE614D*B002
T8.410 SmartTrax™ 696110787 CVT TIER 4B [ZERE08100 - ]	North America	F2CFE614C*B002
T8.435 SmartTrax™ 696110797 CVT TIER 4B [ZERE08100 - ]	North America	F2CFE614A*B002

# Contents

---

## INTRODUCTION

<b>Engine</b> .....	<b>10</b>
[10.001] Engine and crankcase .....	10.1
[10.101] Cylinder heads .....	10.2
[10.202] Air cleaners and lines .....	10.3
[10.216] Fuel tanks .....	10.4
[10.218] Fuel injection system.....	10.5
[10.304] Engine lubrication system.....	10.6
[10.310] Aftercooler.....	10.7
[10.400] Engine cooling system .....	10.8
[10.414] Fan and drive .....	10.9
[10.500] Selective Catalytic Reduction (SCR) exhaust treatment.....	10.10
<b>Power coupling</b> .....	<b>19</b>
[19.100] Drive shaft.....	19.1
[19.110] Flywheel damper .....	19.2
[19.120] Drive shaft shield assembly .....	19.3
<b>Transmission</b> .....	<b>21</b>
[21.504] Continuously Variable Transmission (CVT) .....	21.1
[21.505] Continuously Variable Transmission (CVT) external controls.....	21.2
[21.506] Continuously Variable Transmission (CVT) lubrication system .....	21.3
[21.507] Continuously Variable Transmission (CVT) internal components.....	21.4
[21.900] Hydraulic pump drive.....	21.5
<b>Four-Wheel Drive (4WD) system</b> .....	<b>23</b>
[23.202] Electro-hydraulic control .....	23.1
[23.314] Drive shaft.....	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
[25.108] Final drive hub, steering knuckles, and shafts .....	25.3
[25.122] Axle suspension control.....	25.4
<b>Rear axle system.....</b>	<b>27</b>
[27.100] Powered rear axle.....	27.1
[27.106] Rear bevel gear set and differential.....	27.2
[27.610] Rear axle track yoke assembly .....	27.3
<b>Power Take-Off (PTO).....</b>	<b>31</b>
[31.104] Rear electro-hydraulic control.....	31.1
[31.110] One-speed rear Power Take-Off (PTO) .....	31.2
[31.114] Two-speed rear Power Take-Off (PTO) .....	31.3
[31.146] Front Power Take-Off (PTO) .....	31.4
<b>Brakes and controls .....</b>	<b>33</b>
[33.110] Parking brake or parking lock .....	33.1
[33.202] Hydraulic service brakes .....	33.2
[33.220] Trailer brake hydraulic control.....	33.3
[33.224] Trailer brake pneumatic control .....	33.4
[33.240] Emergency brake .....	33.5
<b>Hydraulic systems.....</b>	<b>35</b>
[35.000] Hydraulic systems.....	35.1
[35.102] Pump control valves.....	35.2
[35.106] Variable displacement pump .....	35.3
[35.114] Three-point hitch control valve .....	35.4
[35.124] Three-point hitch hydraulic adjustment .....	35.5
[35.204] Remote control valves .....	35.6
[35.300] Reservoir, cooler, and filters.....	35.7
[35.304] Combination pump units .....	35.8

<b>Hitches, drawbars, and implement couplings</b> .....	<b>37</b>
[37.110] Rear three-point hitch .....	37.1
[37.162] Front hitch .....	37.2
<b>Steering</b> .....	<b>41</b>
[41.101] Steering control .....	41.1
[41.200] Hydraulic control components.....	41.2
[41.206] Pump .....	41.3
[41.432] Autoguidance steering .....	41.4
[41.910] Auxiliary steering .....	41.5
<b>Wheels</b> .....	<b>44</b>
[44.520] Rear wheels.....	44.1
<b>Tracks and track suspension</b> .....	<b>48</b>
[48.100] Tracks .....	48.1
[48.130] Track frame and driving wheels.....	48.2
[48.134] Track tension units .....	48.3
[48.138] Track rollers .....	48.4
<b>Cab climate control</b> .....	<b>50</b>
[50.100] Heating.....	50.1
[50.200] Air conditioning.....	50.2
[50.300] Cab pressurizing system.....	50.3
<b>Electrical systems</b> .....	<b>55</b>
[55.010] Fuel injection system.....	55.1
[55.012] Engine cooling system .....	55.2
[55.014] Engine intake and exhaust system.....	55.3
[55.024] Transmission control system.....	55.4
[55.045] Front axle control system .....	55.5
[55.046] Rear axle control system.....	55.6
[55.050] Heating, Ventilation, and Air-Conditioning (HVAC) control system.....	55.7

[55.051] Cab Heating, Ventilation, and Air-Conditioning (HVAC) controls.....	55.8
[55.100] Harnesses and connectors.....	55.9
[55.130] Rear three-point hitch electronic control system.....	55.10
[55.201] Engine starting system.....	55.11
[55.301] Alternator.....	55.12
[55.302] Battery.....	55.13
[55.510] Cab or platform harnesses and connectors.....	55.14
[55.512] Cab controls.....	55.15
[55.513] Cab transmission controls.....	55.16
[55.518] Wiper and washer system.....	55.17
[55.640] Electronic modules.....	55.18
[55.988] Selective Catalytic Reduction (SCR) electrical system.....	55.19
[55.DTC] FAULT CODES.....	55.20

**Platform, cab, bodywork, and decals..... 90**

[90.100] Engine hood and panels.....	90.1
[90.102] Engine shields, hood latches, and trims.....	90.2
[90.124] Pneumatically-adjusted operator seat.....	90.3
[90.150] Cab.....	90.4
[90.151] Cab interior.....	90.5
[90.160] Cab interior trim and panels.....	90.6

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](mailto:ebooklibonline@outlook.com)