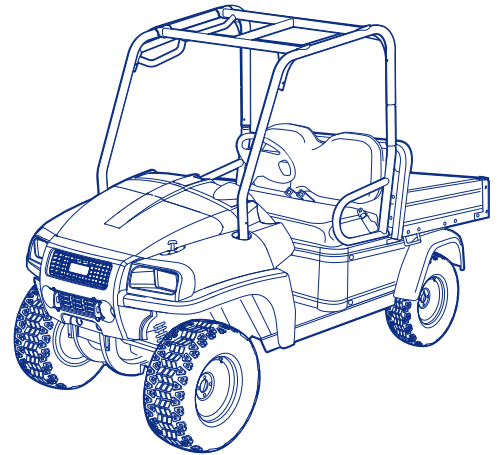


NEW HOLLAND  
Rustler™  
120  
125

CLC103700628

Edition Code 1109B0110A

SERVICE MANUAL



# CONTENTS

---

## SECTION 1 – SAFETY

---

|                                 |     |
|---------------------------------|-----|
| Safety Details .....            | 1-1 |
| General Warning .....           | 1-2 |
| Disabling The Vehicle .....     | 1-4 |
| Disconnecting The Battery ..... | 1-4 |
| Connecting The Battery .....    | 1-4 |

## SECTION 2 – VEHICLE SPECIFICATIONS

---

## SECTION 3 – GENERAL INFORMATION

---

|  |     |
|--|-----|
| General Information .....                        | 3-1 |
| Model Identification .....                       | 3-2 |
| Identification Numbers .....                     | 3-2 |
| Storage .....                                    | 3-4 |
| Preparing the Vehicle for Extended Storage ..... | 3-4 |
| Returning the Stored Vehicle to Service .....    | 3-5 |
| Using A Booster Battery (Jump Starting) .....    | 3-6 |

## SECTION 4 – BODY AND TRIM

---

|                                     |     |
|-------------------------------------|-----|
| Cleaning the Vehicle .....          | 4-1 |
| Seat Cleaning .....                 | 4-1 |
| Front Body Repair .....             | 4-2 |
| Light Scratches .....               | 4-2 |
| Abrasions and Haze .....            | 4-2 |
| Large Scratches and Abrasions ..... | 4-2 |

|   |      |
|---|------|
| Front Body Components .....                 | 4-3  |
| Instrument Panel Removal .....              | 4-3  |
| Instrument Panel Installation .....         | 4-3  |
| Front Fascia Removal .....                  | 4-4  |
| Front Fascia Installation .....             | 4-4  |
| Hood Removal .....                          | 4-4  |
| Hood Installation .....                     | 4-4  |
| Center Cowl Panel Removal .....             | 4-4  |
| Center Cowl Panel Installation .....        | 4-5  |
| Side Cowl Panel (Fender) Removal .....      | 4-5  |
| Side Cowl Panel (Fender) Installation ..... | 4-5  |
| Front Fender Flare Removal .....            | 4-6  |
| Front Fender Flare Installation .....       | 4-6  |
| Roll-Over Protective Structure (ROPS) ..... | 4-6  |
| ROPS Removal .....                          | 4-6  |
| ROPS Installation .....                     | 4-8  |
| Seat .....                                  | 4-9  |
| Seat Removal .....                          | 4-9  |
| Seat Adjustment .....                       | 4-9  |
| Seat Installation .....                     | 4-9  |
| Seat Support Removal .....                  | 4-10 |
| Seat Support Installation .....             | 4-10 |
| Safety Belts .....                          | 4-10 |
| Safety Belt Removal .....                   | 4-10 |
| Safety Belt Installation .....              | 4-11 |
| Cargo Bed – Electric Lift .....             | 4-11 |
| Testing the Bed Lift Motor .....            | 4-11 |
| Bed Lift Motor Removal .....                | 4-11 |
| Bed Lift Motor Installation .....           | 4-12 |
| Cargo Bed Removal .....                     | 4-12 |
| Cargo Bed Installation .....                | 4-12 |
| Cargo Bed – Manual Lift .....               | 4-13 |
| Cargo Bed Removal .....                     | 4-13 |
| Cargo Bed Installation .....                | 4-13 |
| Rear Fender .....                           | 4-15 |
| Rear Fender Removal .....                   | 4-15 |
| Rear Fender Installation .....              | 4-15 |

## SECTION 5 – ACCELERATOR AND BRAKE PEDAL ASSEMBLIES

---

|  |     |
|--|-----|
| Accelerator Pedal .....                      | 5-1 |
| Accelerator Pedal Removal .....              | 5-1 |
| Accelerator Pedal Installation .....         | 5-2 |
| Accelerator Pedal and RPM Adjustment .....   | 5-2 |
| Brake Pedal .....                            | 5-3 |
| Brake Pedal Removal .....                    | 5-3 |
| Brake Pedal Installation .....               | 5-3 |
| Brake Pedal Adjustment .....                 | 5-3 |
| Park Brake Pedal .....                       | 5-4 |
| Park Brake Pedal Assembly Removal .....      | 5-4 |
| Park Brake Pedal Assembly Installation ..... | 5-4 |

## SECTION 6 – HYDRAULIC AND PARK BRAKE SYSTEMS

---

|  |      |
|--|------|
| Brake System Inspection .....                        | 6-1  |
| Brake System Troubleshooting .....                   | 6-3  |
| Brake Pads and Caliper .....                         | 6-6  |
| Front Brake Pad and Caliper Removal .....            | 6-6  |
| Front Brake Pad and Caliper Installation .....       | 6-7  |
| Rear Brake Pad and Caliper Removal .....             | 6-8  |
| Rear Brake Pad and Caliper Installation .....        | 6-9  |
| Brake Disc and Hub .....                             | 6-11 |
| Front Wheel Disc and Hub Removal .....               | 6-11 |
| Front Wheel Disc and Hub Installation .....          | 6-15 |
| Rear Wheel Disc Removal .....                        | 6-16 |
| Rear Wheel Disc Installation .....                   | 6-17 |
| Hydraulic Line Replacement .....                     | 6-18 |
| Front Brake Line Removal .....                       | 6-18 |
| Front Brake Line Installation .....                  | 6-18 |
| Rear Brake Line Removal .....                        | 6-19 |
| Rear Brake Line Installation .....                   | 6-20 |
| Master Cylinder and Reservoir .....                  | 6-21 |
| Filling the Hydraulic System .....                   | 6-21 |
| Master Cylinder Removal .....                        | 6-21 |
| Master Cylinder Installation .....                   | 6-22 |
| Bleeding the Hydraulic Brake System .....            | 6-22 |
| Bleeding Brakes on a DOT 5 Fluid Filled System ..... | 6-22 |
| Purging the Hydraulic System .....                   | 6-24 |

|  |      |
|--|------|
| Park Brake System .....                        | 6-25 |
| Park Brake Adjustment – At Rear Calipers ..... | 6-25 |
| Park Brake Cable Adjustment .....              | 6-25 |
| Park Brake Wheel Cables .....                  | 6-26 |
| Front Park Brake Cable Removal .....           | 6-27 |
| Front Park Brake Cable Installation .....      | 6-28 |
| Park Brake Equalizer Removal .....             | 6-28 |
| Park Brake Equalizer Installation .....        | 6-29 |

## **SECTION 7 – STEERING AND FRONT SUSPENSION**

---

|   |      |
|---|------|
| Steering Wheel .....                              | 7-1  |
| Steering Wheel Removal .....                      | 7-1  |
| Steering Wheel Installation .....                 | 7-2  |
| Steering Column .....                             | 7-2  |
| Steering Column Removal .....                     | 7-2  |
| Steering Column Installation .....                | 7-3  |
| Rack and Pinion .....                             | 7-3  |
| Rack and Pinion Removal .....                     | 7-3  |
| Rack and Pinion Installation .....                | 7-4  |
| Rack and Pinion Disassembly .....                 | 7-5  |
| Rack and Pinion Assembly .....                    | 7-9  |
| Front Suspension .....                            | 7-11 |
| Wheel Alignment .....                             | 7-11 |
| Front Suspension Components .....                 | 7-13 |
| Steering Upright Removal .....                    | 7-13 |
| Upper A-Arm Removal .....                         | 7-14 |
| Upper A-Arm Installation .....                    | 7-16 |
| Lower A-Arm Removal .....                         | 7-16 |
| Lower A-Arm Installation .....                    | 7-17 |
| Front Coil-Over Shock Absorber Removal .....      | 7-18 |
| Front Coil-Over Shock Absorber Installation ..... | 7-19 |
| Steering Upright Installation .....               | 7-19 |

## **SECTION 8 – WHEELS AND TIRES**

---

|                           |     |
|---------------------------|-----|
| General Information ..... | 8-1 |
| Wheels .....              | 8-2 |
| Wheel Removal .....       | 8-2 |
| Wheel Installation .....  | 8-2 |

|                         |     |
|-------------------------|-----|
| Tires .....             | 8-2 |
| Tire Removal .....      | 8-2 |
| Tire Installation ..... | 8-3 |

## **SECTION 9 – REAR SUSPENSION**

---

|                                     |     |
|-------------------------------------|-----|
| Rear Coil-Over Shock Absorber ..... | 9-1 |
| Swing Arms .....                    | 9-2 |
| Swing Arm Removal .....             | 9-2 |
| Swing Arm Installation .....        | 9-3 |

## **SECTION 10 – PERIODIC MAINTENANCE**

---

|   |       |
|---|-------|
| Periodic Service Schedule .....   | 10-1  |
| Periodic Lubrication Schedule .....   | 10-4  |
| Brake Fluid Reservoir .....   | 10-6  |
| Brake Fluid .....   | 10-6  |
| Engine Oil .....  | 10-6  |
| Oil Pressure – Gasoline Engine .....  | 10-7  |
| Engine Oil Level Check .....  | 10-7  |
| Engine Oil and Filter Change .....  | 10-7  |
| Oil Viscosity .....   | 10-11 |
| Spark Plugs .....   | 10-11 |
| Spark Plug Cleaning And Inspection .....  | 10-11 |
| Spark Plug Gap Inspection .....   | 10-11 |
| Gearcase Lubrication .....  | 10-12 |
| Lubrication Level Check for Front Differential, Transmission, and Rear Differential ..... | 10-12 |
| Lubrication Change for Front Differential, Transmission, and Rear Differential .....      | 10-12 |
| Engine Coolant – Diesel Vehicles .....  | 10-13 |
| Engine Coolant Level Check .....  | 10-13 |
| Fueling Instructions .....  | 10-14 |
| Draining Water from Fuel Filter .....   | 10-15 |
| Battery .....   | 10-16 |

## **SECTION 11A – TROUBLESHOOTING AND ELECTRICAL SYSTEM: GASOLINE VEHICLES**

---

|                                |       |
|--------------------------------|-------|
| Troubleshooting Guide .....    | 11a-1 |
| Wiring Diagram .....           | 11a-6 |
| Test Procedures .....          | 11a-8 |
| Index of Test Procedures ..... | 11a-8 |

## **SECTION 11B – TROUBLESHOOTING AND ELECTRICAL SYSTEM: DIESEL VEHICLES**

---

|                                |       |
|--------------------------------|-------|
| Troubleshooting Guide .....    | 11b-1 |
| Wiring Diagram .....           | 11b-6 |
| Test Procedures .....          | 11b-8 |
| Index of Test Procedures ..... | 11b-8 |

## **SECTION 12A – ELECTRICAL COMPONENTS: GASOLINE VEHICLES**

---

|   |        |
|---|--------|
| Starter and Starter Solenoid .....                      | 12a-1  |
| Relays .....  | 12a-1  |
| Neutral Switch .....                                    | 12a-2  |
| Carburetor Solenoid .....                               | 12a-2  |
| Carburetor Heater .....                                 | 12a-3  |
| Voltage Regulator .....                                 | 12a-4  |
| Warning Lights .....                                    | 12a-5  |
| Fuel Gauge/Hour Meter .....                             | 12a-6  |
| Key Switch .....  | 12a-7  |
| 12-Volt Accessory Receptacle .....                      | 12a-8  |
| Bed Lift Switch .....                                   | 12a-9  |
| Bed Lift Circuit Breaker .....                          | 12a-9  |
| Light Switch .....                                      | 12a-10 |
| Fuse .....  | 12a-10 |
| Reverse Warning Buzzer (If Equipped) .....              | 12a-11 |
| Reverse Warning Buzzer Limit Switch (If Equipped) ..... | 12a-12 |
| Front Differential Limit Switch .....                   | 12a-13 |
| Fuel Level Sending Unit .....                           | 12a-14 |
| Ignition Coil and Charge Coil .....                     | 12a-14 |
| Oil Pressure Sensor .....                               | 12a-15 |
| Headlights .....  | 12a-15 |
| Wire Harness Diodes .....                               | 12a-16 |
| Battery .....   | 12a-16 |
| General Information .....                               | 12a-17 |

## **SECTION 12B – ELECTRICAL COMPONENTS: DIESEL VEHICLES**

---

|                                    |       |
|------------------------------------|-------|
| Starter and Starter Solenoid ..... | 12b-1 |
| Relays .....                       | 12b-1 |
| Neutral Switch .....               | 12b-2 |
| Fuel Solenoid .....                | 12b-2 |
| 60-Amp Fusible Link .....          | 12b-3 |

|   |        |
|---|--------|
| Warning Lights .....                                    | 12b-4  |
| Fuel Gauge/Hour Meter .....                             | 12b-6  |
| Key Switch .....  | 12b-6  |
| 12-Volt Accessory Receptacle .....                      | 12b-7  |
| Bed Lift Switch .....                                   | 12b-8  |
| Bed Lift Circuit Breaker .....                          | 12b-8  |
| Light Switch .....                                      | 12b-8  |
| Fuse .....  | 12b-9  |
| Reverse Warning Buzzer (If Equipped) .....              | 12b-10 |
| Reverse Warning Buzzer Limit Switch (If Equipped) ..... | 12b-11 |
| Front Differential Limit Switch .....                   | 12b-12 |
| Fuel Level Sending Unit .....                           | 12b-13 |
| Alternator .....  | 12b-13 |
| Oil Pressure Sensor .....                               | 12b-15 |
| Headlights .....  | 12b-15 |
| Thermostat Switch .....                                 | 12b-16 |
| Fan .....   | 12b-18 |
| Wire Harness Diodes .....                               | 12b-19 |
| Battery .....   | 12b-20 |
| General Information .....                               | 12b-20 |

## **SECTION 13A – GASOLINE ENGINE, MUFFLER, FUEL SYSTEM, AND CLUTCHES**

---

|                                      |        |
|--------------------------------------|--------|
| Gasoline Engine .....                | 13a-1  |
| Engine Removal .....                 | 13a-1  |
| Engine Installation .....            | 13a-3  |
| Oil Filter Hoses .....               | 13a-5  |
| Exhaust System .....                 | 13a-6  |
| Muffler Removal .....                | 13a-6  |
| Intermediate Pipe Removal .....      | 13a-7  |
| Intermediate Pipe Installation ..... | 13a-7  |
| Muffler Installation .....           | 13a-8  |
| Fuel System .....                    | 13a-9  |
| Fuel Lines .....                     | 13a-9  |
| Fuel Filter .....                    | 13a-11 |
| Fuel Pump .....                      | 13a-11 |
| Carburetor .....                     | 13a-11 |
| Fuel Level Sending Unit .....        | 13a-12 |
| Fuel Tank .....                      | 13a-16 |
| Carbon Canister .....                | 13a-18 |
| Fuel Shut-Off Valve .....            | 13a-20 |



|   |        |
|---|--------|
| Engine Control Linkages .....             | 13a-21 |
| Accelerator Cable .....                   | 13a-21 |
| Choke Cable .....                         | 13a-23 |
| Engine Governor Arm .....                 | 13a-25 |
| Engine RPM Adjustment .....               | 13a-25 |
| Air Intake System .....                   | 13a-26 |
| Air Filter Replacement .....              | 13a-26 |
| Air Canister Removal .....                | 13a-27 |
| Air Canister Installation .....           | 13a-27 |
| Air Filter Intake Hose Removal .....      | 13a-28 |
| Air Filter Intake Hose Installation ..... | 13a-28 |
| Air Filter Outlet Hose Removal .....      | 13a-29 |
| Air Filter Outlet Hose Installation ..... | 13a-29 |
| Clutches .....                            | 13a-30 |
| Clutch Troubleshooting .....              | 13a-30 |
| Drive Belt .....                          | 13a-31 |
| Drive Clutch .....                        | 13a-32 |
| Driven Clutch .....                       | 13a-37 |
| Clutch Cover .....                        | 13a-40 |

**SECTION 13B – DIESEL ENGINE, MUFFLER, FUEL SYSTEM, AND CLUTCHES**

---

|                                      |        |
|--------------------------------------|--------|
| Diesel Engine .....                  | 13b-1  |
| Engine Removal .....                 | 13b-1  |
| Engine Installation .....            | 13b-3  |
| Exhaust System .....                 | 13b-5  |
| Muffler Removal .....                | 13b-5  |
| Intermediate Pipe Removal .....      | 13b-5  |
| Manifold Pipe Removal .....          | 13b-6  |
| Manifold Pipe Installation .....     | 13b-6  |
| Intermediate Pipe Installation ..... | 13b-6  |
| Muffler Installation .....           | 13b-7  |
| Fuel System .....                    | 13b-8  |
| Fuel Lines .....                     | 13b-8  |
| Bleeding Air From Fuel System .....  | 13b-9  |
| Fuel Filter Replacement .....        | 13b-9  |
| Fuel Pump .....                      | 13b-11 |
| Fuel Level Sending Unit .....        | 13b-11 |
| Fuel Tank .....                      | 13b-15 |
| Engine Control Linkages .....        | 13b-18 |
| Accelerator Cable .....              | 13b-18 |
| Engine RPM Adjustment .....          | 13b-20 |

|   |        |
|---|--------|
| Air Intake System .....                   | 13b-22 |
| Air Filter Replacement .....              | 13b-22 |
| Air Canister Removal .....                | 13b-23 |
| Air Canister Installation .....           | 13b-24 |
| Air Filter Intake Hose Removal .....      | 13b-24 |
| Air Filter Intake Hose Installation ..... | 13b-25 |
| Air Filter Outlet Hose Removal .....      | 13b-25 |
| Air Filter Outlet Hose Installation ..... | 13b-25 |
| Clutches .....                            | 13b-26 |
| Clutch Troubleshooting .....              | 13b-26 |
| Drive Belt .....                          | 13b-27 |
| Drive Clutch .....                        | 13b-28 |
| Driven Clutch .....                       | 13b-32 |
| Clutch Cover .....                        | 13b-34 |

## **SECTION 14 – DRIVETRAIN COMPONENTS**

---

|  |       |
|--|-------|
| Half Shafts .....                      | 14-1  |
| Half Shaft Removal .....               | 14-1  |
| Half Shaft Installation .....          | 14-3  |
| Front Differential .....               | 14-4  |
| Front Differential Removal .....       | 14-4  |
| Front Differential Installation .....  | 14-6  |
| Front Driveshaft .....                 | 14-6  |
| Front Driveshaft Removal .....         | 14-6  |
| Front Driveshaft Installation .....    | 14-7  |
| Rear Receiver Hitch .....              | 14-7  |
| Rear Receiver Hitch Removal .....      | 14-7  |
| Rear Receiver Hitch Installation ..... | 14-7  |
| Rear Axle .....                        | 14-8  |
| Rear Axle Removal .....                | 14-8  |
| Rear Axle Installation .....           | 14-10 |
| Rear Driveshaft .....                  | 14-11 |
| Rear Driveshaft Removal .....          | 14-11 |
| Rear Driveshaft Installation .....     | 14-12 |
| Transmission .....                     | 14-12 |
| Transmission Removal .....             | 14-12 |
| Transmission Installation .....        | 14-14 |
| Forward/Reverse Shifter Cable .....    | 14-15 |
| Forward/Reverse Shifter Handle .....   | 14-18 |

|   |       |
|---|-------|
| Rear Differential and Axle Shafts .....             | 14-18 |
| Rear Differential and Axle Shaft Removal .....      | 14-18 |
| Rear Differential and Axle Shaft Installation ..... | 14-20 |
| Rear Wheel Bearings .....                           | 14-20 |

## **SECTION 15 – RADIATOR AND COOLANT SYSTEM (DIESEL)**

---

|  |      |
|--|------|
| General Information .....                | 15-1 |
| Engine Coolant Level Check .....         | 15-1 |
| Engine Coolant Change .....              | 15-1 |
| Coolant Reservoir .....                  | 15-3 |
| Coolant Reservoir Removal .....          | 15-3 |
| Coolant Reservoir Installation .....     | 15-4 |
| Radiator .....                           | 15-4 |
| Radiator Removal .....                   | 15-4 |
| Radiator Installation .....              | 15-5 |
| Coolant Pipe Weldment .....              | 15-6 |
| Coolant Pipe Weldment Removal .....      | 15-6 |
| Coolant Pipe Weldment Installation ..... | 15-6 |
| Fan .....                                | 15-7 |
| Fan Removal .....                        | 15-7 |
| Fan Installation .....                   | 15-7 |

## **SECTION 16 – TRANSMISSION**

---

|  |       |
|--|-------|
| General Information .....                    | 16-1  |
| Service Fixture .....                        | 16-1  |
| Transmission Removal .....                   | 16-2  |
| Transmission Disassembly .....               | 16-2  |
| Input Shaft Disassembly .....                | 16-8  |
| Input Shaft Assembly .....                   | 16-8  |
| Intermediate Shaft Disassembly .....         | 16-8  |
| Output Shaft Disassembly .....               | 16-12 |
| Shifter Shaft Removal .....                  | 16-13 |
| Shifter Shaft Installation .....             | 16-14 |
| Case Inspection .....                        | 16-14 |
| Shaft Seal Removal .....                     | 16-15 |
| Shaft Seal Installation .....                | 16-15 |
| Output Shaft Assembly .....                  | 16-15 |
| Intermediate Shaft Assembly .....            | 16-18 |
| Intermediate and Output Shaft Assembly ..... | 16-22 |
| Transmission Assembly .....                  | 16-23 |

|                                 |       |
|---------------------------------|-------|
| Transmission Installation ..... | 16-27 |
|---------------------------------|-------|

## **SECTION 17 – FRONT DIFFERENTIAL**

---

|  |       |
|--|-------|
| General Information .....                      | 17-1  |
| Axle Half Shaft Removal .....                  | 17-1  |
| Front Differential Removal .....               | 17-2  |
| Tools Required For This Section .....          | 17-3  |
| Front Differential Coil And Output Cover ..... | 17-3  |
| Coil and Output Cover Removal .....            | 17-3  |
| Coil and Output Cover Installation .....       | 17-6  |
| Front Differential .....                       | 17-8  |
| Front Differential Disassembly .....           | 17-8  |
| Front Differential Assembly .....              | 17-14 |
| Front Differential Installation .....          | 17-18 |
| Axle Half Shaft Installation .....             | 17-18 |

## **SECTION 18 – REAR DIFFERENTIAL**

---

|   |       |
|---|-------|
| General Information .....                       | 18-1  |
| Axle Shafts and Differential Removal .....      | 18-2  |
| Rear Differential Disassembly .....             | 18-2  |
| Pinion Gear Removal .....                       | 18-4  |
| Ring Gear Removal .....                         | 18-6  |
| Clutch Carrier .....                            | 18-7  |
| Clutch Components .....                         | 18-7  |
| Ring Gear Installation .....                    | 18-9  |
| Pinion Gear Installation .....                  | 18-9  |
| Rear Differential Assembly .....                | 18-10 |
| Axle Shafts and Differential Installation ..... | 18-11 |

## **SECTION i – INDEX**

---

**Thank you very much  
for your reading.**

**Please click here to buy  
After you pay.**

**Then, you can  
download the complete  
manual instantly.  
No waiting.**