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Roller

RD 16



REPAIR MANUAL



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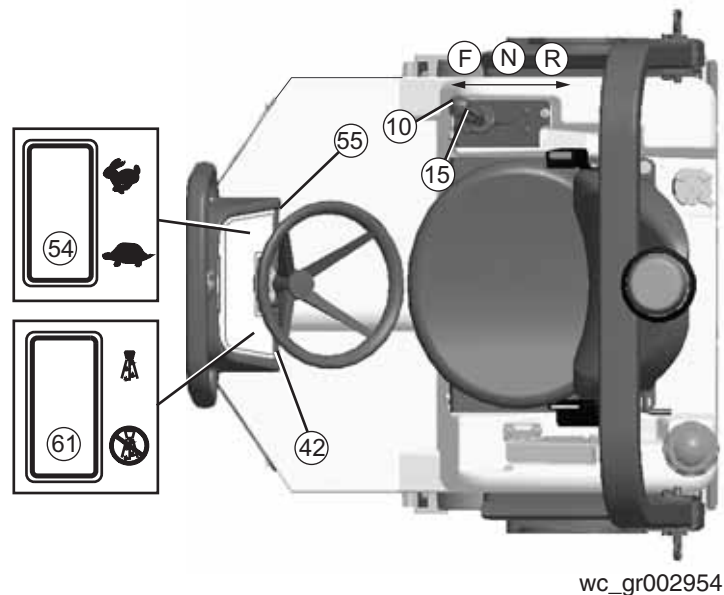


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- 1.1.12 ALWAYS remain aware of changing positions and the movement of other equipment and personnel on the job site.
- 1.1.13 ALWAYS remain seated and wear the seat belt at all times while operating the machine.
- 1.1.14 ALWAYS remain aware of changing surface conditions and use extra care when operating over uneven ground, on hills, or over soft or coarse material. The machine could shift or slide unexpectedly.
- 1.1.15 ALWAYS use caution when operating the machine near the edges of pits, trenches or platforms. Check to be sure that ground surface is stable enough to support the weight of the machine with operator and that there is no danger of the roller sliding, falling or tipping.
- 1.1.16 ALWAYS wear protective clothing appropriate to the job site when operating the machine.
- 1.1.17 ALWAYS keep hands, feet, and loose clothing away from moving parts of the machine.
- 1.1.18 ALWAYS read, understand, and follow procedures in the Operator's Manual before attempting to operate the machine.
- 1.1.19 ALWAYS store the machine properly when it is not being used. The machine should be stored in a clean, dry location out of the reach of children.
- 1.1.20 ALWAYS operate the machine with all safety devices and guards in place and in working order.
- 1.1.21 ALWAYS be sure that all other persons are at a safe distance from the machine. Stop the machine if people step into the working area of the machine.

Notes:



2.7 Parking Brake Button

See Graphic: *wc_gr002954*

To hold the machine in a stopped position (parked), there is a mechanical parking brake on each drum drive motor. The mechanical parking brakes are spring-activated and hydraulically released (SAHR) type brakes. The brakes are applied when the engine is switched off or the operator leaves the seat.

When pushed in, the parking brake button **(42)** stops all travel (either forward or reverse) and applies the brake. The brakes can be released by pulling the parking brake button out.

The forward/reverse control **(15)** must be in the NEUTRAL position to allow the release of the brakes. If the forward/reverse control is not in the NEUTRAL position when the parking brake is released, the brakes will not be released.

NOTICE: Under normal operating conditions, do not use the parking brakes when the machine is moving. The parking brakes should only be used in cases of **emergency** when the machine is moving, e.g., following failure of the main hydraulic braking system (moving the forward/reverse control to the NEUTRAL position) or in a runaway condition traveling down a slope. Using the parking brake while the machine is moving may cause damage to the drive motors.

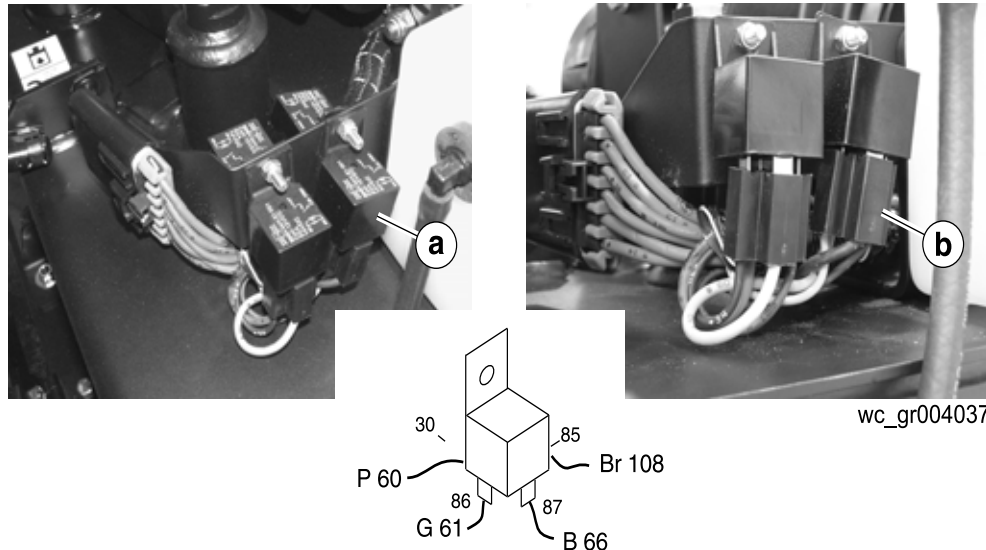
3.6 Checking the Neutral Relay

- Prerequisites**
- Multimeter
 - Fully-charged (approximately 12V) battery
 - Functioning main fuse
 - Functioning crank relay
 - Functioning neutral switch

Background The neutral relay relays battery voltage to the starter solenoid.

Procedure Follow the procedure below to check the neutral relay.

1. Open the hood and locate the neutral relay **(a)**.



2. Place the key switch in the START position.
3. Check the voltage between terminal 30 (pink wire #60) and ground. This test may be done at plug **(b)** with it disconnected from the neutral relay.

Is battery voltage (approximately 12V) measured?

Yes ____ Continue	No ____ Repair pink wire #60.
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This procedure continues on the next page.

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Was more than four liters (1 gal.) of hydraulic oil collected?

Yes _____	No _____
The drive motor has failed; replace it.	Continue.

10.Reconnect the case drain hose.

Note: *If you measured less than four liters (1 gal.) but still suspect a drive motor problem, do the following: Place a 2x4 or similar piece of wood (equal to the width of the drum) in front of the drum. Attempt to drive over it. If the machine cannot drive over the piece of wood, consider replacing the drive motors.*

The drive motors have now been checked.

6 Spray System

6.1 Troubleshooting the Spray System

Prerequisites The machine must be able to start in order to troubleshoot the spray system. If the machine does not start, see engine starting troubleshooting.

Components The electrical components of the spray system consist of:

- Pump
- Pump timer module
- Spray system switch

Sequence When troubleshooting the spray system, do so in the following sequence:

1. Check power to the pump.
2. Check the pump timer module.
3. Check the spray system switch.

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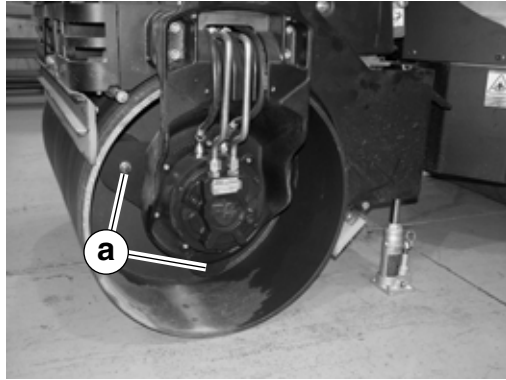
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8.6 Removing Either Drum

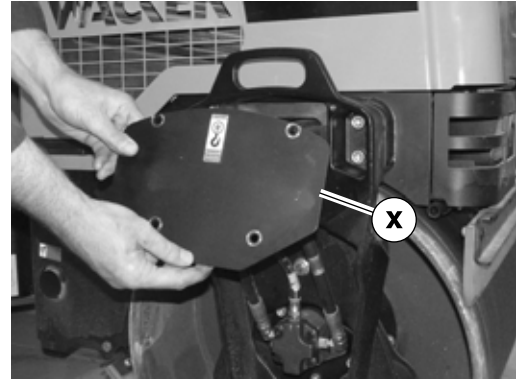
- Prerequisites**
- Crane and appropriate sling
 - Jacks

Procedure Follow the procedure below to remove either drum.

1. Park the roller so that all three screws **(a)** that secure the drum to the drum supports are accessible.
2. Support the front half of the machine with jacks.

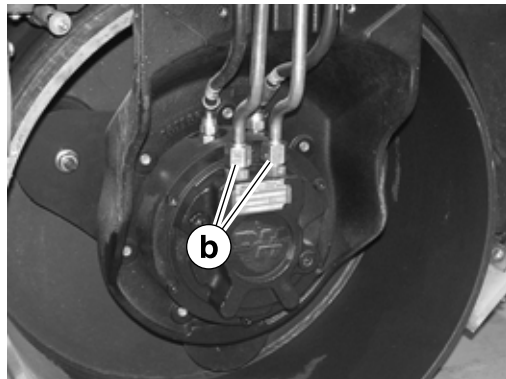


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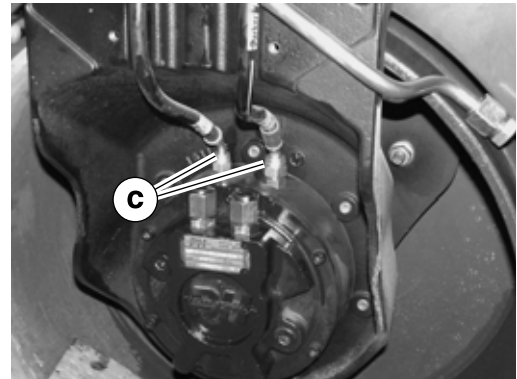


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3. Remove the protective guard **(x)** from each side of the machine.
4. Disconnect and plug the hydraulic lines **(b)** from the drive motor.



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5. Disconnect and plug the hydraulic hoses **(c)** from the drive motor.

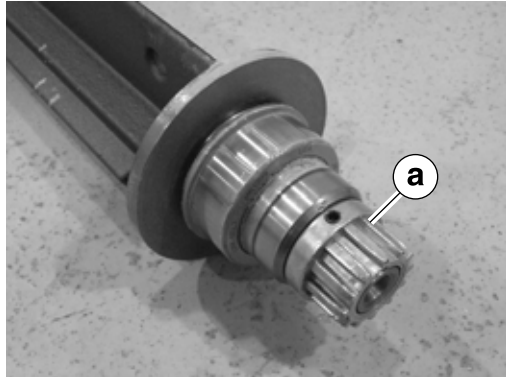
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8.11 Installing the Exciter

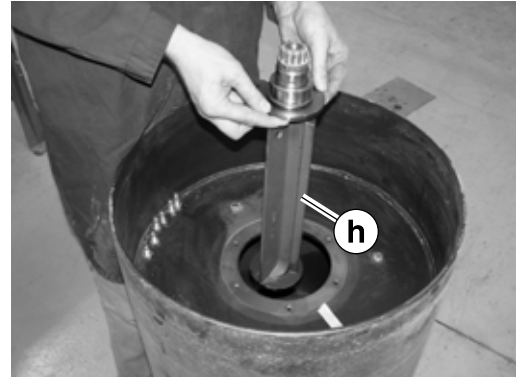
- Prerequisites**
- Front drum removed
 - Drive-motor-side exciter bearing installed

Procedure Follow the procedure below to install the exciter.

1. Install the key and the gear **(a)** of the exciter motor coupling onto the exciter. Secure the gear to the exciter with the set screw.

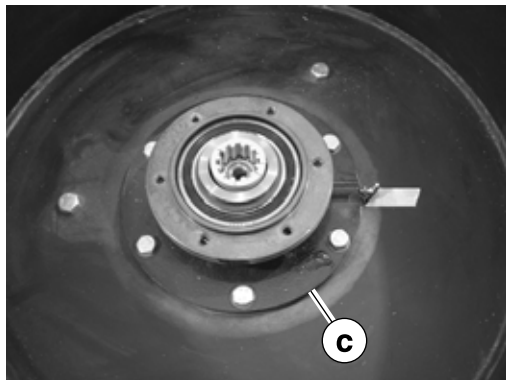


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2. Slide the exciter **(h)** through the drum and into the drive-motor-side bearing race.
3. Temporarily install the exciter-side drum hub **(c)** onto the drum using three the screws.

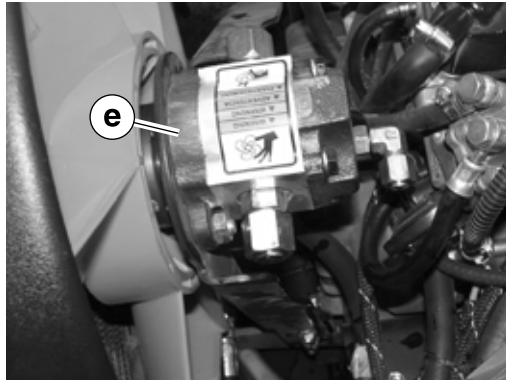


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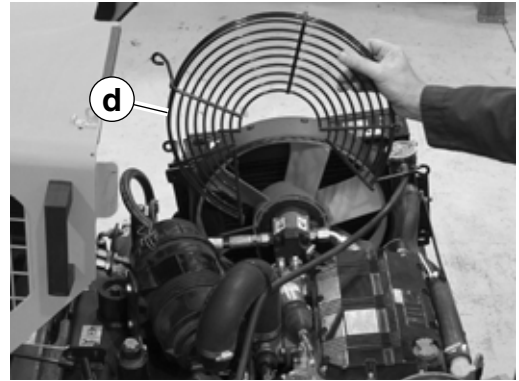
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5. Install the hoses to the fan motor **(e)**.

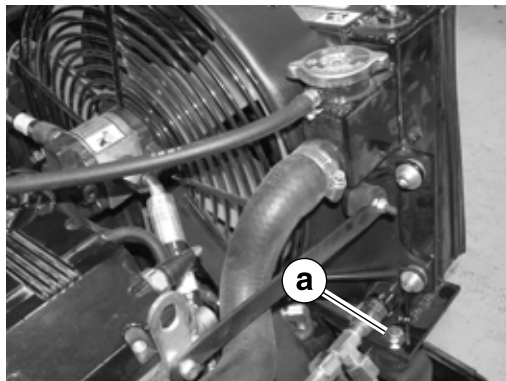


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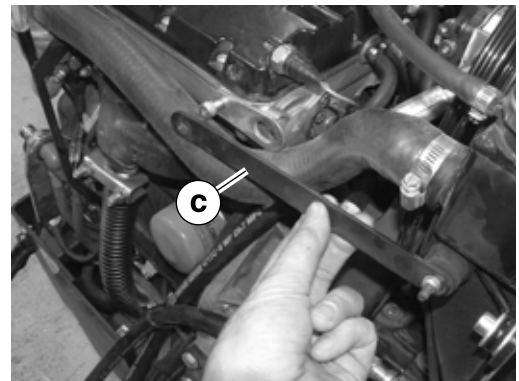


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6. Install the fan guard **(d)**.
7. Install the screw **(a)** that secures the radiator/oil cooler to the machine.



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8. Install the screw that secures the stiffener **(c)** to the engine.

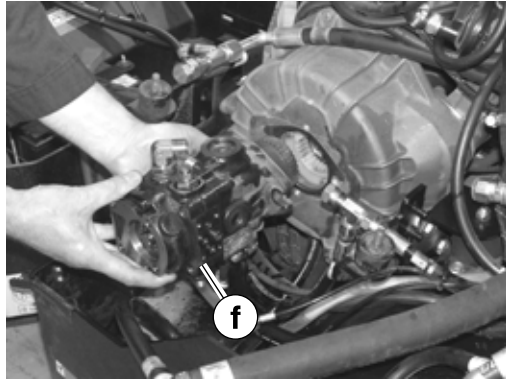
The procedure to install the cooling fan is now complete.

8.21 Installing the Drive Pump

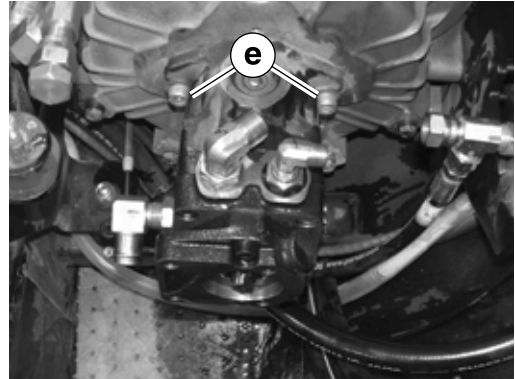
- Prerequisites**
- Engine shut down and cool
 - Ratcheting box wrench with hex key

Procedure Follow the procedure below to install the drive pump.

1. Position the drive pump **(f)** onto the engine and secure it with two screws **(e)**.

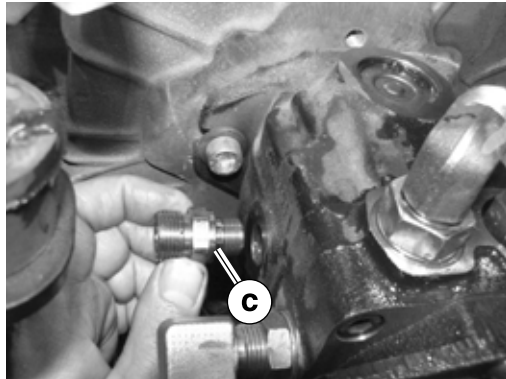


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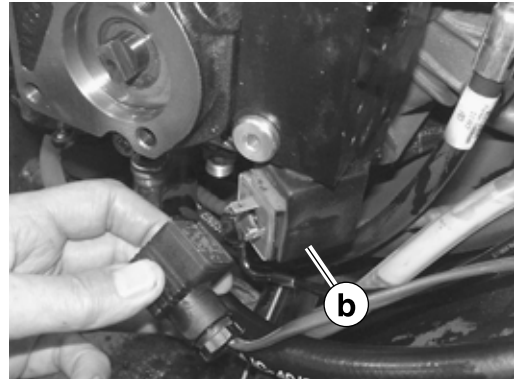


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2. Install the fitting **(c)**.



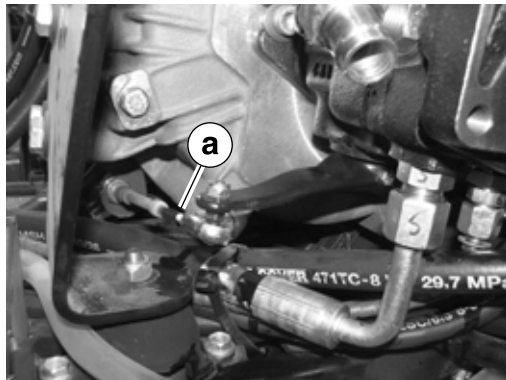
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3. Install the wiring to the solenoid **(b)**.

4. Connect the control cable **(a)**.

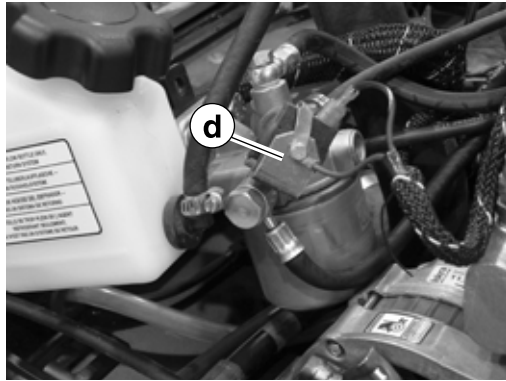


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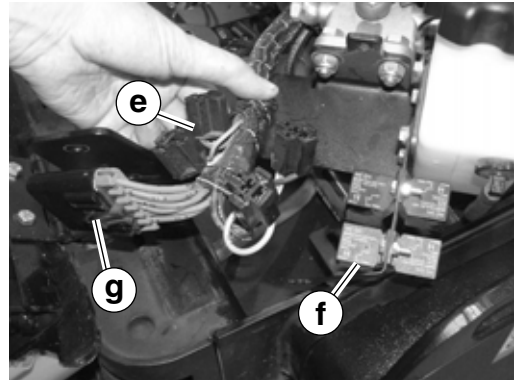
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12.Reconnect the two wires to the fuel solenoid **(d)**.



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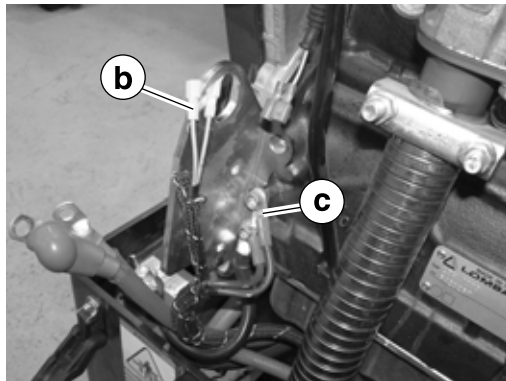
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13.Reconnect the connectors **(e)** to the four relays **(f)**.

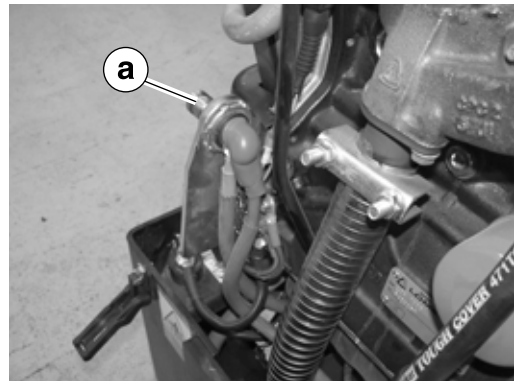
14.Reconnect the fuse holder **(g)**.

15.Reconnect the two wires **(b)** running to the engine.

16.Reconnect the ground wires **(c)** to the engine.



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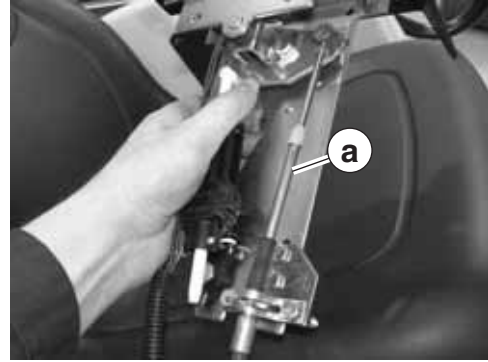
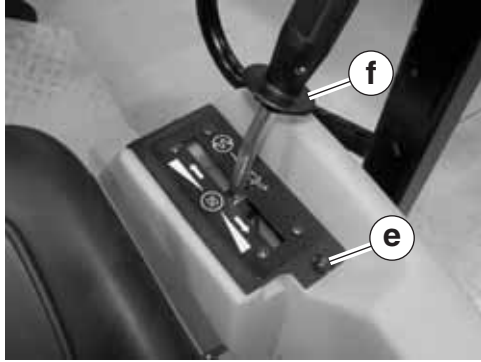
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17.Reconnect the auxiliary battery positive terminal **(a)**.

The procedure to install the engine is now complete.

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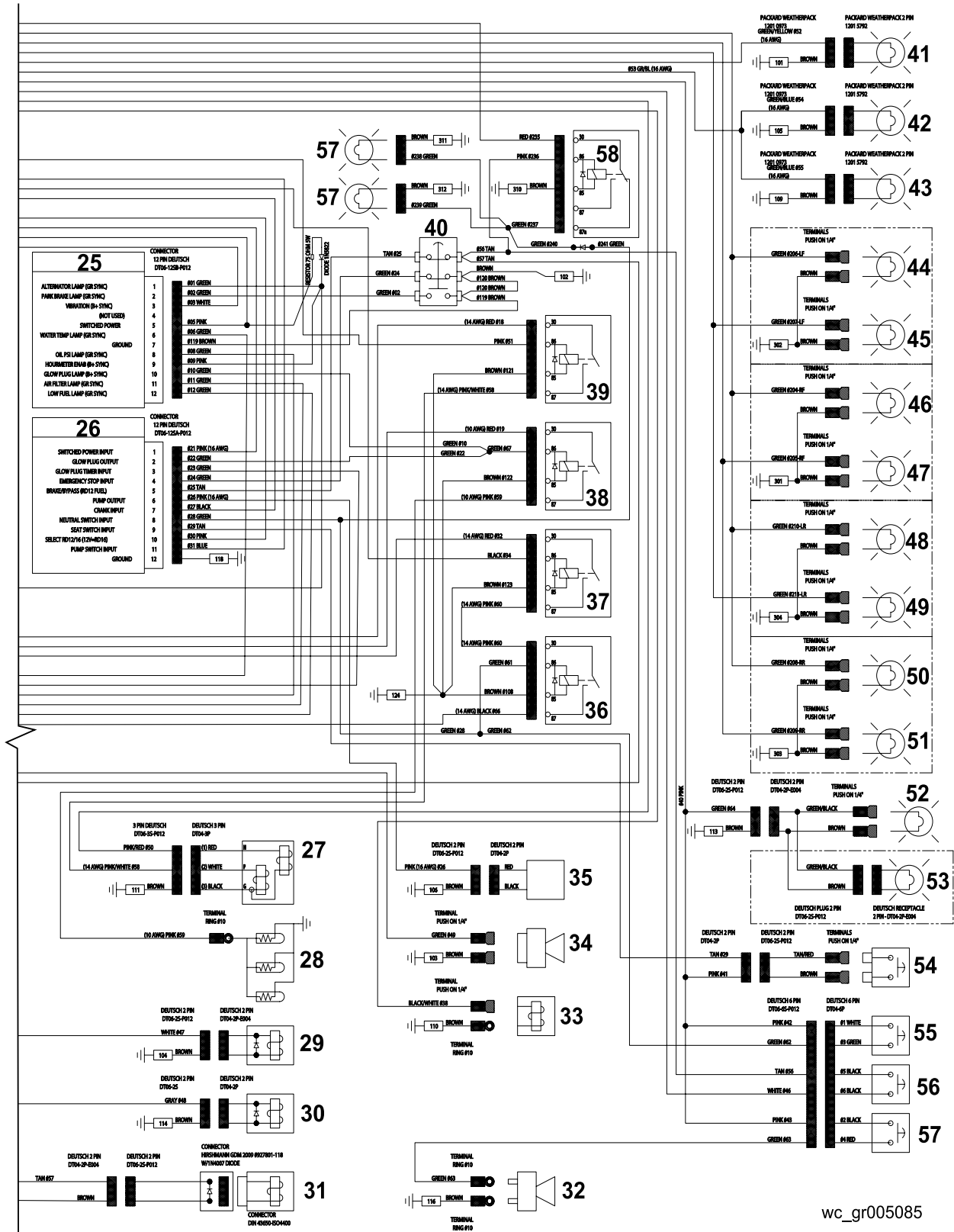
5. Remove the screws **(e)** that secure the control lever assembly **(f)** and remove the control lever assembly from the machine.



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6. Disconnect the control cable **(a)** from the control lever assembly.

The procedure to remove the control cable and the control lever is now complete.



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