



Simplicity

Service Manual

4000 & 6000

Riding Mower

Service Manual

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or Call 800-443-0625

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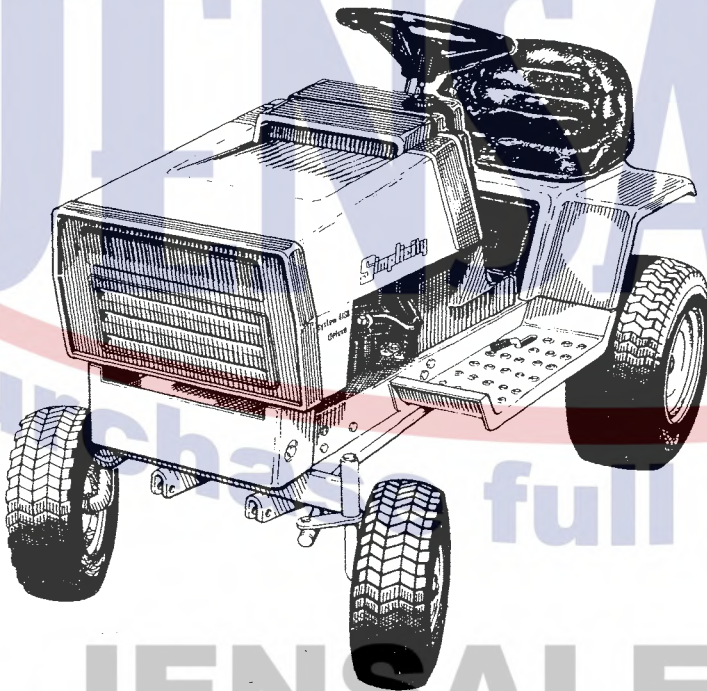
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SIM-S-4000+

Simplicity
AN ALLIS-CHALMERS COMPANY

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REPAIR MANUAL MODELS 4000 & 6000



MODEL 4008 8 H.P. TRACTOR
MFG. NO. 1690173

MODEL 4108 8 H.P. TRACTOR
MFG. NO. 1690174

MODEL 4108 8 H.P. TRACTOR
MFG. NO. 1690259

MODEL 4108 8 H.P. TRACTOR
MFG. NO. 1690261

MODEL 4108 8 H.P. TRACTOR
MFG. NO. 1690260

MODEL 4108 8 H.P. TRACTOR
MFG. NO. 1690262

MODEL 4111 11 H.P. TRACTOR
MFG. NO. 1690343

MODEL 4208 8 H.P. TRACTOR
MFG. NO. 1690176

MODEL 6008 8 H.P. TRACTOR
MFG. NO. 1690193

MODEL 6010 10 H.P. TRACTOR
MFG. NO. 1690192

MODEL 6011 11 H.P. TRACTOR
MFG. NO. 1690347

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DRIVE BELT REPLACEMENT (4208 & 6000)

To remove a worn or damaged drive belt from these models, first loosen the belt stop on the fixed idler pulley (see figure 21). Then press the clutch-brake pedal down fully and engage the pedal parking brake on 6000 models and tie the pedal down on model 4208. Remove the belt from the engine pulley and then from the tractor. Replace the belt in the reverse order making sure to reposition the fixed idler pulley belt stop facing straight downward. On a level surface run the engine with the clutch engaged and transmission in neutral for 5 minutes. Adjust the clutch-brake as follows:

CLUTCH-BRAKE ADJUSTMENT (4008 & 4108)

The total adjustment procedure consists of five adjustments which should be performed in the following order.

- Brake pad clearance adjustment
- Brake rod adjustment
- Clutch rod adjustment
- Clutch rod tension adjustment
- Parking brake rod tension adjustment
(Mfg. Nos. 1690173 and 1690174 only)



WARNING

For your personal safety and that of others, correct clutch and brake adjustment is vital to safe machine motion and tractor braking.

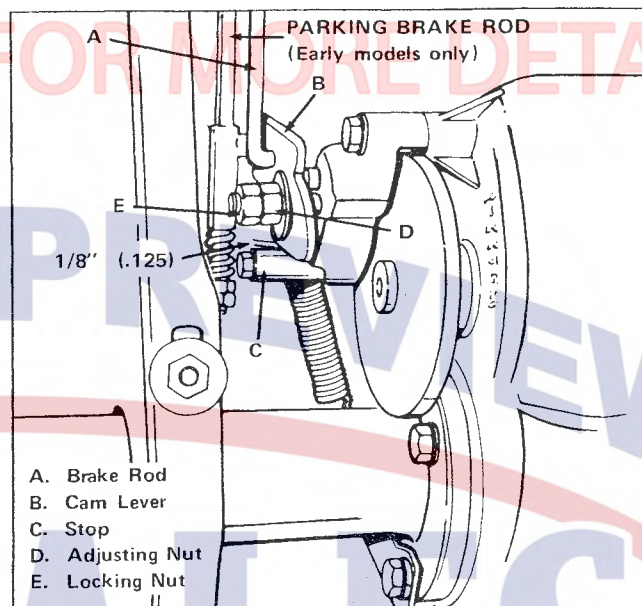


Figure 24. Brake Pad Adjustment

- Loosen the locking nut (item E) on the brake adjustment stud. Tighten the adjusting nut (item D) slightly onto the stud to decrease the gap, and loosen the adjusting nut on the stud slightly to increase the gap. Recheck the gap measurement. When it is correct, tighten the locking nut to the adjusting nut holding the adjusting nut to prevent it from turning.

4008, 4108 & 4111 Brake Pad Adjustment
(Mfg. Nos. 1690173, 1690174, 1690260, 1690262, 1690259, 1690261 & 1690343)

- With the tractor on a level surface, place the transmission in gear and release the parking brake. Move the brake rod back and forth to make sure that there is no tension on the brake pads.
- Push brake cam lever (item B, figure 24) forward by hand to take any slack out of the brake linkage. With the cam lever fully forward, the gap between the rear of the cam lever (item B) and the cam lever stop (item C) should be 1/8 inch (.125). This measurement must be done accurately to ensure good brake performance. Use a feeler gauge to measure the gap. If gap is not 1/8 inch, proceed to step 3.

4008, 4108 Brake Rod Adjustment
(Mfg. Nos. 1690173 and 1690174 only)

- After the brake pad clearance is properly adjusted, push the brake rod forward again by hand as far as it will go. The gap between the brake rod adjusting nut (item C, figure 25) and the spring (item D) should be 5/8 - 3/4 inch. If it is not, proceed to step 2.
- Loosen the locking nut (item B) from the adjusting nut on the end of the brake rod. Tighten the adjusting nut onto the brake rod (item A) to decrease the gap between the nut and the spring, or loosen the nut on the rod to increase the gap. When the gap measures between 5/8 and 3/4 inch, tighten the locking nut to the adjusting nut, holding adjusting nut to prevent it from turning.

Engine & Fuel Systems

Engines in the 4000 and 6000 models are Briggs and Stratton, vertical crankshaft, air cooled, four cycle engines.

Refer to the Operator's Manual specifications list or to the top of the engine shroud for the exact model engine for each model tractor. Refer to the Briggs & Stratton Engine Repair Manual for information on adjustment and repair.

The fuel system consists of the fuel tank and fuel line, connected directly to the carburetor bowl. In the base of the fuel tank is a fuel filter screen, attached to the connecting elbow.

Normal maintenance and cleaning, and some repair jobs, can be done with the engine mounted in the tractor. For more extensive work, the engine should be removed from the tractor as outlined in the following sections.

Engine Removal

Early model 4000 tractors have a small hole for the crankshaft in the frame. Later model 4000 tractors and all 6000 tractors have a larger hole in the frame for the crankshaft, allowing the engine to be removed from the tractor before removing the drive pulleys. Directions for removal are given for both instances. See figure 47 or 48.

If the tractor has the SMALL HOLE IN THE FRAME, FOLLOW THESE DIRECTIONS.

1. Drain fuel tank and remove fuel link from engine. Disconnect throttle cable, engine ground wire, charge circuit wire, and starter cable from engine. Disconnect any other wires or cables, such as choke cable, if present. Tag all connections for reinstallation.
2. Raise the tractor to the vertical position as outlined in the general information section of this manual. Make sure that it is safely blocked and attached to the hoist.
3. Remove the capscrew and lockwasher attaching the pulley assembly to the engine crankshaft.
4. Squirt penetrating oil on the shaft and in capscrew hole. It is sometimes easier if two people work at removing the pulley, one person pulling evenly on the pulley assembly while the other person taps with a softhead hammer on the pulley assembly just below the tractor drive pulley.
5. Lower the tractor to horizontal position and remove the hoist.

6. Loosen the four capscrews holding the engine base to the frame. While someone else holds the engine so it does not fall, remove the four capscrews holding on the engine, and remove the engine.

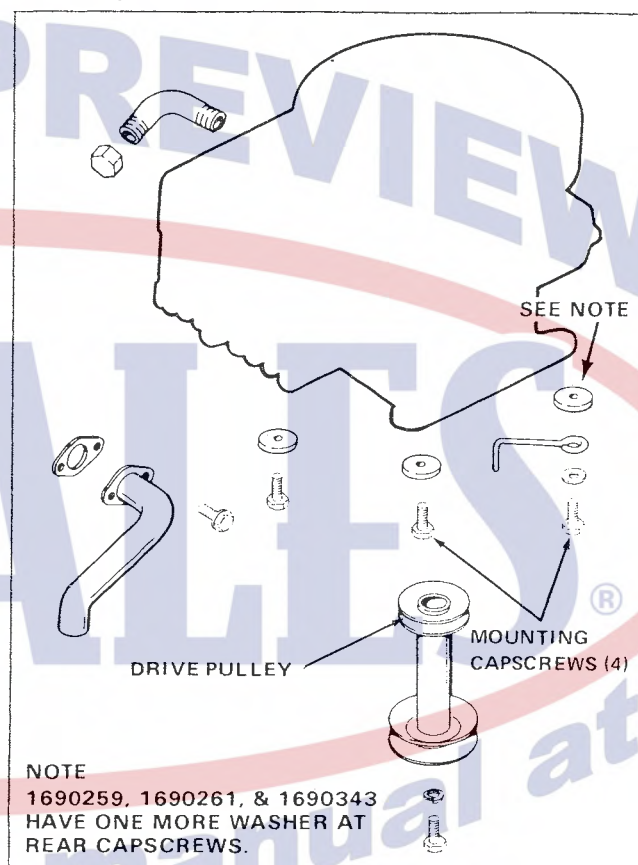


Figure 47. Engine & Attaching Hardware

If the tractor has a LARGE HOLE IN THE FRAME, FOLLOW THESE DIRECTIONS.

1. Drain the fuel tank and leave the fuel line disconnected from the engine. Remove throttle cable, engine ground wire, charge circuit wire, and starter cable. Disconnect any other wires or cables, such as choke cable, if present. Tag all connections for reinstallation.
2. With the tractor in the horizontal position, remove the four capscrews holding the engine to the frame and remove the engine.
3. Remove the capscrew and lockwasher holding the pulley assembly to the crankshaft. Squirt penetrating oil on the shaft and into the capscrew hole.
4. Remove the pulley assembly from the crankshaft, using a split collar puller. Be careful not to bend or collapse the pulley. Insert the split collar puller between the pulley assembly and engine base.

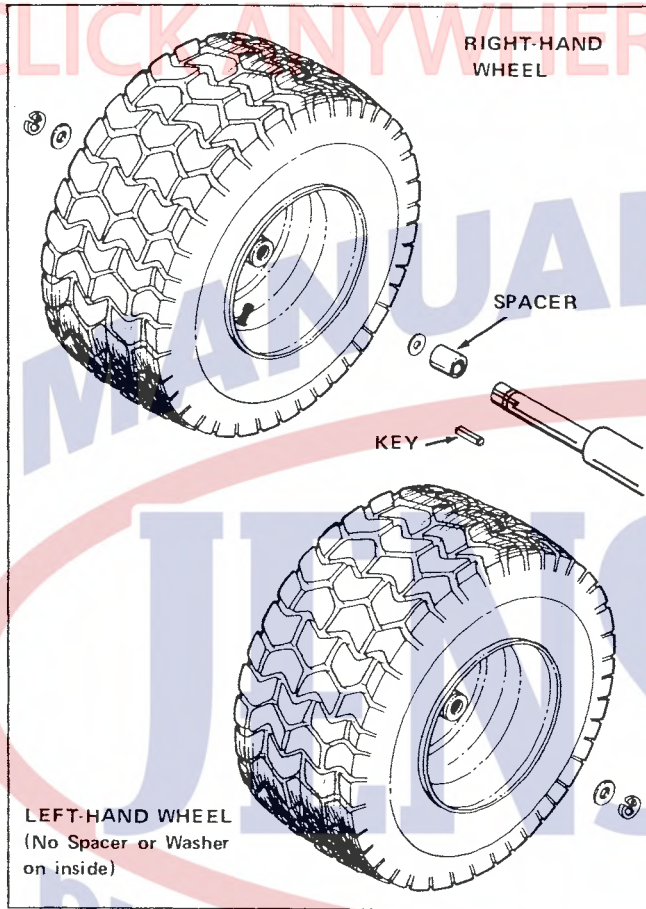


Figure 87. 4008, 4108, & 4111 Rear Wheels

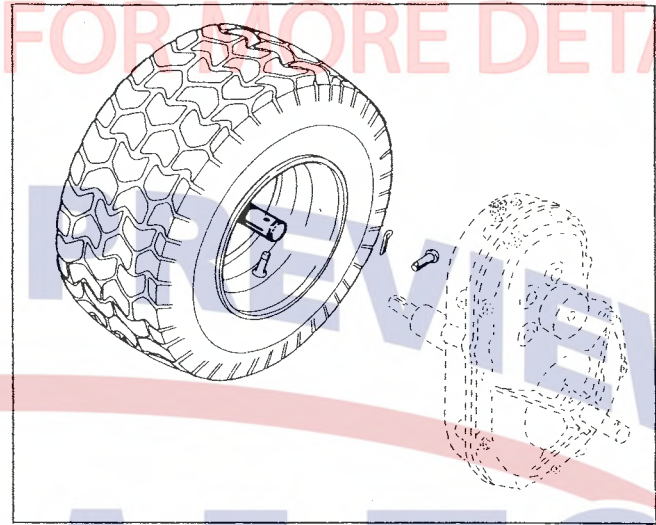


Figure 88. 4208 & 6000 Rear Wheels

TIRES

Tires can be repaired by plugging or patching. Tubes can be inserted in tires to cure chronic leaks. Repair leaks as you would for any other tire.

When removing a tire from the rim or installing one on the rim, take care not to break or damage the bead of the tire. Clean both the tire and rim thoroughly before reassembling them, and use a tire lubricant when slipping the tire over the rim.

For correct replacement tires, refer to the appropriate parts manual for the model being serviced.

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